PROJECT INFORMATION

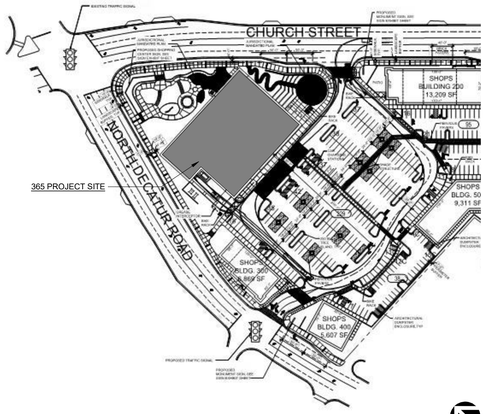
365 BY WHOLE FOODS MARKET

TENANT IMPROVEMENT
DECATUR, GA

1555 CHURCH STREET, DECATUR, GA 30030

DOCUMENT DATE: 01/29/18

PROJECT SITE



PLAN NORTH TRUE NORTH

RESPONSIBILITY MATRIX

CATEGORY	ITEM	FURNISHED BY: 365	FURNISHED BY: 365 / G.C.	FURNISHED BY: L.L. / G.C.	INSTALLED BY: 365	INSTALLED BY: 365 / G.C.	INSTALLED BY: L.L. / G.C.	COMMENTS
SITE WORK / SHELL								
	SITE WORK - SURVEY / AS BUILTS			X			X	
	SITE LIGHTING - BUILDING PERIMETER			X			X	PER LOCAL CODES AND ORDINANCES
	SITE LIGHTING - FRIENDS OUTDOOR SEATING			X			X	
	SITE LIGHTING - POLES & BASES			X			X	PER LOCAL CODES AND ORDINANCES
	BIKE RACKS			X			X	
	CONDUIT AND PULL ROPE FOR FUTURE ELECTRICAL VEHICLE CHARGING SPACES			X			X	CONDUIT STUB INTO 365 SPACE, 2" MIN WITH PULL STRING
	EXTERIOR 365 SIGNAGE	X			X			GC TO COORDINATE INSTALL SCHEDULE WITH 365 VENDOR; PREFERRED 365 VENDOR: AdArt
	DOCK PACKAGE			X			X	L.L. TO PROVIDE: DOCK LEVELER, DOCK DOOR, BUMPERS, DOCK SEALS DOCK LIGHT, BOLLARD, RECEIVING DOOR & DOOR CHIME/BUZZER, BOLLARDS AND DOCK PLATE TO BE PAINTED OSHA YELLOW
	SKYLIGHTS			X			X	
	CART CORRAL, CARTS, AND APPROPRIATE SIGNAGE	X				X		365 G.C. TO COORDINATE WITH 365 REPRESENTATIVE FOR CORRAL AND ADDITIONAL SIGNAGE INSTALL REQUIREMENTS
	INTERIOR FURRING AT PERIMETER WALL 6" METAL STUD FRAMING AND INSULATION WITH APPROPRIATE VAPOR BARRIER TO UNDERSIDE OF DECK		X			X		365 G.C. TO OBTAIN 3 BIDS AND L.L. TO REIMBURSE 365 FOR ALL COSTS INCLUDING G.C. MARK UP AND TESTING ASSOCIATED WITH THE FURRING AND INSULATION. SEE EXHIBIT E FOR SPECIFICATIONS
	PERIMETER WALL GYP BOARD		X			X		GYP BOARD TO BE FINISHED & PAINTED AS INDICATED IN THIS SET
	EXTERIOR STOREFRONT WALLS			X			X	365 G.C. TO COORDINATE WITH 365 REPRESENTATIVE FOR COORDINATED CONSTRUCTION LEAVE OUT
	MAIN EXTERIOR ENTRY DOORS AND CONTROLS			X			X	L.L. TO FURNISH POWER TO DOORS AND ROUGH-IN, INCLUDING PREPARATION FOR INSTALLATION BY VENDOR; PROTOTYPE MANUFACTURER: TORMAX.
	VESTIBULE / INTERIOR ENTRY DOORS			X			X	L.L. TO FURNISH POWER TO DOORS AND ROUGH-IN, INCLUDING PREPARATION FOR INSTALLATION BY VENDOR; PROTOTYPE MANUFACTURER: TORMAX.
	ROOF TOP UNIT			X			X	L.L. TO PROVIDE ALL POWER, GAS PIPING AND SIEMENS CONTROL BOARD, SCREENING AS REQUIRED BY LOCAL MUNICIPALITY
	REFRIGERATION EQUIPMENT	X			X			
	EXHAUST FANS, UNIT HEATERS, AND KITCHEN HOODS		X			X		G.C. TO USE 365 PREFERRED VENDOR: CaptiveAire
	MAIN ELECTRICAL SWITCH GEAR			X			X	(1600) AMP, 277/480 VOLT SERVICE WITH APPROPRIATE SUBPANELS FOR LL PROVIDED BUILDING EQUIPMENT
	COMMUNICATIONS CONDUITS			X			X	TWO 4" CONDUITS WITH PULL STRINGS TO BE PROVIDED FROM TELEPHONE COMPANY FACILITIES TO 365'S DESIGNATED DEMARC
	FULLY ADRESSABLE FIRE ALARM PANEL AND CONNECTION TO LOCAL FIRE PROTECTION AGENCY			X			X	PER NFPA WITH REQUIRED CONNECTIONS TO HVAC EQUIPMENT AND FIRE SUPPRESSION SYSTEM AT NO MORE THAN 50% CAPACITY
	FIRE SUPPRESSION SYSTEM			X			X	L.L. TO PROVIDE GENERAL FIRE SUPPRESSION SYSTEM IN ACCORDANCE TO THE EXHIBIT E AND GOVERNING BUILDING CODE
	FIRE SUPPRESSION SYSTEMS MODIFICATIONS FOR INTERIOR FIT-OUT		X			X		365 G.C. TO DESIGN AND INSTALL MODIFICATIONS TO BASE COVERAGE SYSTEM FOR INTERIOR FIT-OUT.
	CONCRETE SLAB		X			X		SUB BASE AND SLAB AS SPECIFIED IN THESE DOCUMENTS AND IN ACCORDANCE TO THE GEOTECHNICAL REPORT
CARPENTRY / MILLWORK								
	MILLWORK		X			X		GC TO USE PREFERRED 365 VENDORS AS OUTLINED IN MILLWORK/FINISH SCHEDULE
	MILLWORK ELECTRICAL AND DATA CHASE		X			X		CHECKSTANDS BY 365
DRYWALL								
	PRIME AND PAINTING OF WALLS		X			X		
DOORS & WINDOWS								
	INTERIOR STOREFRONT		X			X		
FINISHES								
	CONCRETE (POLISHED AND SEALED)		X			X		SEE FINISH PLANS AND LEGEND
	EPOXY FLOORING		X			X		SEE FINISH PLANS AND LEGEND
	WALL GRAPHICS	X			X			G.C. TO COORDINATE WITH 365 PREFERRED SIGNAGE VENDOR; PREFERRED 365 VENDOR: DL ENGLIGH
	GLASS VINYL	X			X			GC TO COORDINATE INSTALL SCHEDULE WITH 365 VENDOR; PREFERRED 365 VENDOR: DL ENGLISH
EQUIPMENT								
	EQUIPMENT SCHEDULE & FURNITURE SCHEDULE	X				X		G.C. TO COORDINATE DELIVERY AND PROVIDE INSTALLATION FOR SINKS AND CHECKSTANDS.
	REFRIGERATION/FREEZER EQUIPMENT INCLUDING ALL DOORS, PASSTHROUGHS AND CONTAINED EQUIPMENT	X			X			G.C. TO COORDINATE WORK PERFORMED BY VENDOR
	JANITORIAL EQUIPMENT AND SUPPLIES	X			X			G.C. TO COORDINATE INSTALL SCHEDULE WITH 365 VENDOR; PREFERRED 365 VENDOR: SEALEDAIR DIVERSEY
	BATHROOM ACCESSORIES		X			X		G.C. TO PROVIDE AND INSTALL PER TOILET ACCESSORY SCHEDULE
FURNISHINGS								
	FURNITURE (TABLES, SEATING, SYSTEMS FURNITURE)	X			X			GC TO PROVIDE & INSTALL CUSTOMER SEATING COUNTER INCLUDING LEG SUPPORTS; GC TO PROVIDE INTERIOR CUSTOMER SEATING TABLE TOPS & COORDINATE W/ 365 FOR TABLE LEG SUPPORTS
ELECTRICAL								
	EXTERIOR SIGNAGE ELECTRICAL		X			X		G.C. TO COORDINATE WIRING AND CONTROLS WITH 365 REPRESENTATIVE. J-BOX AT SIGN LOCATION BY L.L.
	INTERIOR LIGHT FIXTURE PACKAGE	X				X		GC TO COORDINATE DELIVERY AND PROVIDE INSTALLATION; PREFERRED 365 VENDOR: BORDER STATES
	IFS ELECTRICAL GEAR	X				X		
	EXIT SIGNAGE	X				X		
LOW VOLTAGE HARDWARE								
	P.O.S. SYSTEMS	X			X			G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: SAMGROUP
	TELEPHONE SYSTEM AND HANDSETS	X			X			G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: INSIGHT
	TELECOM: VOICE AND DATA		X			X		G.C. TO COORDINATE WITH 365 VENDOR: INSIGHT
	WIRELESS ACCESS POINT	X				X		G.C. TO COORDINATE WITH 365 VENDOR: TBD
	ELECTRONIC SHELVING SYSTEM	X				X		G.C. TO COORDINATE WITH 365 VENDOR: PRICER
	CCTV AND SECURITY	X			X			G.C. TO COORDINATE WITH 365 VENDOR: PROTECTION 1
	SOUND AND PAGING	X			X			G.C. TO COORDINATE WITH 365 VENDOR: MOOD MEDIA
	HVAC AND LIGHTING CONTROLS	X				X		G.C. TO COORDINATE WITH 365 VENDOR: SIEMENS / HILL PHOENIX
	REFRIGERATION CONTROLS	X				X		G.C. TO COORDINATE WITH 365 VENDOR: MICRO THERMO
	REFRIGERANT LEAK DETECTION/POWER MONITORING	X				X		G.C. TO COORDINATE WITH 365 VENDOR: PARASENSE / HILL PHOENIX
LOW VOLTAGE CABLING								
	TELECOM: VOICE AND DATA		X			X		G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: INSIGHT
	WIRELESS ACCESS POINT		X			X		G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: INSIGHT
	ELECTRONIC SHELVING SYSTEM		X			X		G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: INSIGHT
	CCTV AND SECURITY		X			X		G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: INSIGHT
	SOUND AND PAGING		X			X		G.C. TO COORDINATE INSTALLATION WITH 365 VENDOR: MOOD MEDIA
	HVAC AND LIGHTING CONTROLS		X			X		G.C. TO COORDINATE WITH 365 VENDOR: AMS
	REFRIGERATION CONTROLS		X			X		G.C. TO COORDINATE WITH 365 VENDOR: AMS
	REFRIGERANT LEAK DETECTION/POWER MONITORING		X			X		G.C. TO COORDINATE WITH 365 VENDOR: AMS
LOW VOLTAGE TERMINATIONS								
	TELECOM: VOICE AND DATA	X			X			G.C. TO COORDINATE TERMINATIONS BY 365 IT SQUAD
	WIRELESS ACCESS POINT		X			X		G.C. TO COORDINATE TERMINATIONS WITH 365 VENDOR: INSIGHT
	ELECTRONIC SHELVING SYSTEM		X			X		G.C. TO COORDINATE TERMINATIONS WITH 365 VENDOR: INSIGHT
	CCTV AND SECURITY		X			X		G.C. TO COORDINATE TERMINATIONS WITH 365 VENDOR: INSIGHT
	SOUND AND PAGING	X				X		G.C. TO COORDINATE TERMINATIONS WITH 365 VENDOR: MOOD MEDIA
	HVAC AND LIGHTING CONTROLS		X			X		G.C. TO COORDINATE WITH 365 VENDOR: AMS
	REFRIGERATION CONTROLS		X			X		G.C. TO COORDINATE WITH 365 VENDOR: AMS
	REFRIGERANT LEAK DETECTION/POWER MONITORING		X			X		G.C. TO COORDINATE WITH 365 VENDOR: AMS
THIRD PARTY								
	INSPECTION COORDINATION		X			X		
	FINAL MUNICIPAL CERTIFICATION		X			X		
	SUBCONTRACTOR PERMITS		X			X		
	TESTING AND BALANCING		X			X		G.C. TO COORDINATE WITH SIEMENS
	STARTUP	X			X			G.C. TO COORDINATE WITH AMS
	COMMISSIONING	X			X			G.C. TO COORDINATE WITH 365, AMS
MEZZANINE								
	VERTICAL CIRCULATION			X			X	
	STAIR, ELEVATOR			X			X	
	STRUCTURE, SLAB, & DECK			X			X	

DRAWING INDEX

RESPONSIBILITY MATRIX GENERAL NOTES

1. THIS RESPONSIBILITY MATRIX DELINEATES:
   - 365 FURNISHED ITEMS
   - GC FURNISHED/PROVIDED ITEMS
   - LANDLORD FURNISHED/PROVIDED ITEMS
   - ITEMS TO BE PURCHASED THROUGH DESIGNATED NATIONAL SUPPLIERS
2. DEFINITIONS:
   - O = OWNER (365)
   - G.C. = GENERAL CONTRACTOR
   - L.L. = LANDLORD
   - FURNISH = SUPPLY AND DELIVER TO PROJECT, FREIGHT ON BOARD TRUCK, UNLESS OTHERWISE DEFINED IN GREATER DETAIL.
   - INSTALL = DESCRIBES OPERATIONS AT PROJECT, FROM INSPECTION TO UNLOADING, TO COMPLETION IN PLACE, READY FOR INTENDED USE.
3. SEE MEP-R DRAWINGS FOR ADDITIONAL INFORMATION
4. G.C. TO CONFIRM AND DETERMINE SCOPE OF WORK DURING PRE-CONSTRUCTION MEETING.
5. G.C. IS RESPONSIBLE FOR UNLOADING OWNER FURNISHED CONSTRUCTION ITEMS. REPORT ANY VISIBLE DAMAGE TO 365 REPRESENTATIVE
6. G.C. TO COORDINATE SCHEDULE AND DELIVERY WITH SUPPLIER, STANDARD SHIPPING PROVIDED BY 365.
7. G.C. IS RESPONSIBLE FOR ANY EXPEDITED SHIPPING COSTS. EXCEPT FOR 365 SUPPLIED ITEMS
8. G.C. REQUIRED TO PURCHASE FROM SUPPLIERS WITH WHOM 365 HAS INVENTORY PRICING AGREEMENT. G.C. RESPONSIBLE FOR PURCHASE AND DELIVERY.
9. COORDINATE WITH MEP-R DRAWINGS

CODE SUMMARY

APPLICABLE CODES	
REF LOCAL CODE AMENDMENTS IN ADDITION TO THE CODES LISTED BELOW:	
BUILDING CODE:	2012 IBC - GA STATE AMENDMENTS
MECHANICAL CODE:	2012 IMC - GA STATE AMENDMENTS
PLUMBING CODE:	2012 IPC - GA STATE AMENDMENTS
ELECTRICAL CODE:	2014 NEC - GA STATE AMENDMENTS
FIRE CODE:	2012 IFC - GA STATE AMENDMENTS & THE GEORGIA FIRE SAFETY STANDARDS
ACCESSIBILITY CODE:	2010 DEPARTMENT OF JUSTICE ADA REQ.
ENERGY CODE:	2009 IEC - GA STATE AMENDMENTS

FUTURE/SEPARATE SUBMITTALS
FIRE ALARM
TI PERMIT FOR FUTURE USE
EXTERIOR BUILDING SIGNAGE
SPRINKLER/FIRE PROTECTION

BUILDING CODE ANALYSIS

USE GROUPS	
PRIMARY	
M	MERCANTILE - RETAIL SALES
B	BUSINESS, KITCHEN, COMMERCIAL
S1	RECEIVING, STOCK, STORAGE, COOLERS
ACCESSORY	
A2	ASSEMBLY(UNCONCENTRATED), KITCHEN, COMMERCIAL

BUILDING AREA	
TOTAL GROSS SIZE:	35,096 SF
ALLOWABLE AREA:	37,500 SF
ALLOWABLE HEIGHT:	ONE STORY (W/ MEZZANINE)

CONSTRUCTION TYPE	
CONSTRUCTION TYPE:	II-B
SPRINKLERED:	FULLY SPRINKLERED

TRAVEL DISTANCE	
MAX TRAVEL DISTANCE:	250'

ACCESSORY EGRESS WIDTH	
REF SHEET G004 FOR ADDITIONAL EGRESS INFORMATION	
EGRESS WIDTH FACTOR:	0.2"
EXIT WIDTH REQUIRED:	228"
EXIT WIDTH PROVIDED:	363"

FIRE PROTECTION		
HOURLY FIRE-RESISTANCE RATING REQUIREMENTS PER TABLE 601		
ASSEMBLY	REQUIRED	PROVIDED
STRUCTURAL FRAME:	0 HOURS	0 HOURS
ROOF CONSTRUCTION:	0 HOURS	0 HOURS
EXTERIOR NONBEARING WALLS:	0 HOURS	0 HOURS
EXTERIOR BEARING WALLS:	0 HOURS	0 HOURS
INTERIOR BEARING WALLS:	0 HOURS	0 HOURS
INTERIOR NONBEARING WALLS	0 HOURS	0 HOURS
INTERIOR PARTITIONS:	0 HOURS	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS	0 HOURS

REQUIRED NUMBER OF EXITS:	1,137 OCCUPANTS:	4 EXITS
PROVIDED NUMBER OF EXITS:		5 EXITS

SCOPE OF WORK

- FUTURE RESTAURANT (ZAK THE BAKER)
- NEW TENANT IMPROVEMENT
- METAL STUD FRAMING
- NEW INTERIOR FINISHES
- NEW TOILET ROOMS
- NEW OFFICES AND BREAKROOM
- NEW COOLERS AND FREEZERS
- NEW STOCKROOM / BACK OF HOUSE
- NEW EQUIPMENT
- NEW DINER AND PREP DEPARTMENTS
- NEW SEATING AREAS
- NEW PATIO
- NEW MECHANICAL, PLUMBING, ELECTRICAL, AND REFRIGERATION

PROJECT TEAM

OWNER/TENANT
365 BY WHOLE FOODS
601 N. LAMAR BOULEVARD, SUITE 300
AUSTIN, TX 78703
GLEN MOON (CONSTRUCTION MANAGER) - (413) 268-2184
NICK HANSON (CONSTRUCTION COORDINATOR) - (224) 650-1264

LANDLORD/DEVELOPER
S.J. COLLINS ENTERPRISES
5 SW BROAD STREET, SUITE B
P.O. BOX 214
FAIRBURN, GA 30213

ARCHITECT
BRR ARCHITECTURE
AOR: BOYD RAU
6700 ANTIOCK PLAZA, SUITE 300
MERRIAM, KS 66204
(913) 262-9095

STRUCTURAL ENGINEER
JOHNSTON BULKHOLDER ASSOCIATES
BART J. HALVERSON
930 CENTRAL
KANSAS CITY, MO 64105
(816) 421-4200

MECHANICAL AND PLUMBING ENGINEER
ENERGY SQUARED TEXAS, LLC
CLIFF TILBURY
7330 SAN PEDRO, SUITE 402
SAN ANTONIO, TX 78216
(210) 510-2300 x101

ELECTRICAL ENGINEER
ENERGY SQUARED TEXAS, LLC
SAM RODRIGUEZ
7330 SAN PEDRO, SUITE 402
SAN ANTONIO, TX 78216
(210) 510-2300 x101

FIRE PROTECTION ENGINEER
ENERGY SQUARED TEXAS, LLC
SAM RODRIGUEZ
7330 SAN PEDRO, SUITE 402
SAN ANTONIO, TX 78216
(210) 510-2300 x101

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name
365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
COVER SHEET

Sheet No.
G001

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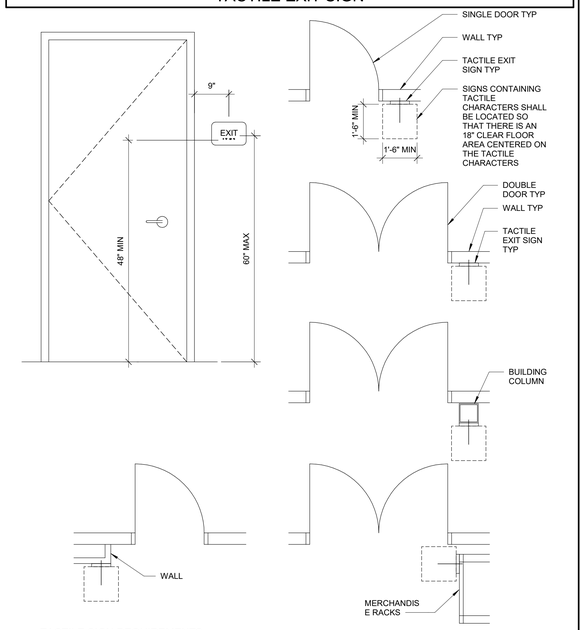

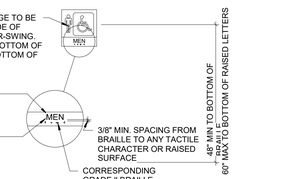

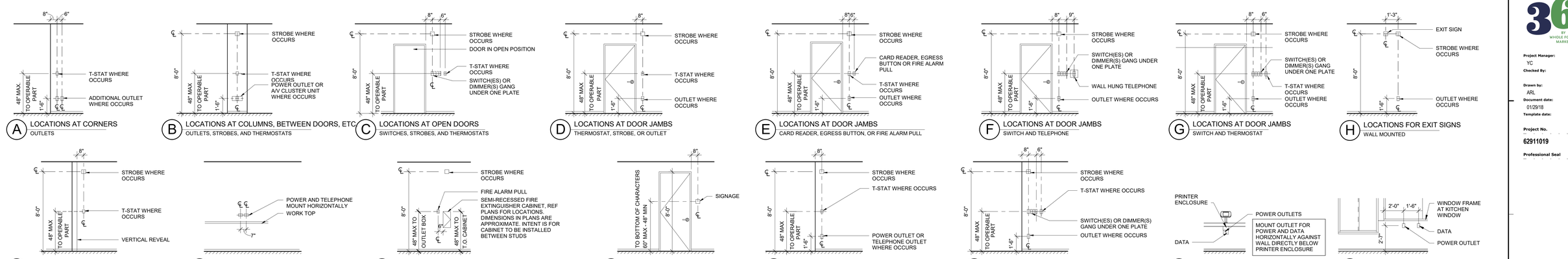

SIGNAGE LEGEND

1. REQUIRED ACCESSIBLE ELEMENTS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AT THE FOLLOWING LOCATIONS

- ACCESSIBLE ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE
- ACCESSIBLE ROOMS WHERE MULTIPLE SINGLE-USER TOILETS ARE CLUSTERED AT A SINGLE LOCATION
- ACCESSIBLE CHECK-OUT AISLES WHERE NOT ALL AISLES ARE ACCESSIBLE. THE SIGN, WHERE PROVIDED, SHALL BE ABOVE THE CHECK-OUT AISLE IN THE SAME LOCATION AS THE CHECK-OUT AISLE NUMBER OR TYPE OF CHECK-OUT IDENTIFICATION
- UNISEX TOILET AND BATHING ROOMS
- ACCESSIBLE DRESSING, FITTING AND LOCKER ROOMS WHERE NOT ALL SUCH ROOMS ARE ACCESSIBLE

2. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS. THESE DIRECTIONAL SIGNS SHALL INCLUDE THE INTERNAL SYMBOL OF ACCESSIBILITY

- AT EACH SEPARATE -SEX TOILET INDICATING THE LOCATION OF THE NEAREST UNISEX TOILET

3. TACTILE SIGNAGE SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

4. CHARACTER AND SYMBOLS OF SIGNS SHALL BE IN CONTRAST WITH THEIR BACKGROUND AND SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE MATERIAL OR FINISHES

5. ACCESSIBLE SIGNAGE SHALL USE GRADE II BRAILLE AND MUST COMPLY WITH 2010 ADA SECTION 703.3

SYMBOLS LEGEND

P4	MATERIAL INDICATOR
1 A101	FULL AND PARTIAL SECTION INDICATOR
1 A101	EXTERIOR AND INTERIOR ELEVATION INDICATOR
ROOM NAME 101	ROOM NAME AND NUMBER
A3	WALL TYPE INDICATOR
101A	DOOR INDICATOR
1	WINDOW INDICATOR
1	REVISION INDICATOR
1	DEMOLITION INDICATOR
0	COLUMN LINE INDICATOR
	HEIGHT ELEVATION INDICATOR
100.00'	PLAN ELEVATION INDICATOR
1 A101	DETAIL INDICATOR
1 DETAIL NAME 1/8" = 1'-0"	VIEW TITLE INDICATOR
	BATT INSULATION

TACTILE EXIT SIGN

TACTILE SIGN REQUIREMENTS

1. A TACTILE SIGN STATING "EXIT" AND COMPLYING WITH 2010 ADA SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. REF DOOR SCHEDULE FOR LOCATIONS.
2. FOR CHARACTER WIDTH, THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE "I" OF THE FONT. (2010 ADA SECTION 703.3) CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
3. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND
4. CHARACTERS SHALL CONFORM TO THE FOLLOWING:
   A. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE
   B. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND A MAXIMUM OF 2"
5. CONTRACTED GRADE 2 BRAILLE SHALL BE USED. DOTS SHALL BE 0.090" (2.3 MM) TO 0.100" (2.5 MM) ON CENTER IN EACH CELL WITH 0.241" (6.1 MM) TO 0.300" (7.6 MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE THE BACKGROUND.
6. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

TACTILE EXIT SIGN LEGEND	
REF:TACTILE SIGN REQUIREMENTS AND DIMENSIONS ABOVE FOR ACCESSIBLE SIGNAGE PLACEMENT	
SYMBOL	SIGNAGE
E	EXIT

GENERAL REQUIREMENTS

1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH THE LOCAL AND/OR STATE (IF APPLICABLE) BUILDING CODES, NATIONAL ELECTRIC CODE (NEC), ADA-ADAAG (ADOPTED HANDICAP ACCESSIBILITY REQUIREMENTS), OSHA AND ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, AND AUTHORITIES HAVING JURISDICTION.
2. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO ACQUAINT HIMSELF WITH THIS KNOWLEDGE DOES NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE. IT IS THE ENTENT OF THESE DRAWINGS TO PROVIDE A COMPLETE OPERATING BUILDING.
3. ANY DAMAGE TO PROPERTY (ADJACENT OR EXISTNG), WHICH OCCURS DURING THE PROCESS OF CONSTRUCTION SHALL BE REPAIRED/REPLACED AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL KEEP WORK AREA CLEAN AND FREE OF DEBRIS AND IS TO REMOVE ALL TRASH AND DEBRIS FROM THE CONSTRUCTION AREA DAILY. NO FLAMMABLE MATERIALS OR LIQUIDS MAY BE STORED IN THE EXISTING BUILDING.
5. REPAIR, RE-ROUTE, AND EXTEND ALL SERVICES, PIPING, CONDUIT OF EXISTING ITEMS AND EQUIPMENT AS REQUIRED DURING THE CONSTRUCTION PROCESS FOR THE COMPLETE INSTALLATION AND OPERATIONS OF NEW EQUIPMENT. THIS INCLUDES ALL ITEMS SHOWN OR NOT SHOWN ON THE DRAWINGS.
6. THE CONTRACTOR SHALL RESPOND TO ALL REQUIREMENTS OF THE ENGINEER/ARCHITECT FOR VERIFICATIONS, RESPONSES AND SUBMISSIONS.
7. DURING ENTIRE CONSTRUCTION PERIOD, PROVIDE ONE U.L. LISTED 2A:20BC DRY CHEMICAL FIRE EXTINGUISHER, OR ONE STANDARD U.L. LISTED 2-1/2 GALLON WATER (E-10) AND ONE U.L. LISTED 10BC CARBON DIOXIDE FIRE EXTINGUISHER MOUNTED TOGETHER IN EACH 3000 SQ. FT. OF WORK AREA OR FRACTION THEREOF (MINIMUM OF TWO AVAILABLE IN ALL CONSTRUCTION AREAS AT ALL TIMES).
8. THE CONTRACTOR SHALL HIRE A LICENSED SPRINKLER CONTRACTOR. CONTRACTOR IS TO SUBMIT SIGNED AND SEALED SPRINKLER DRAWINGS FOR APPROVAL PRIOR TO ANY ALTERATION OF THE AUTOMATIC SPRINKLER SYSTEM. WORK TO BE DONE UNDER SEPARATE PERMIT.
9. THE PROJECT SPECIFICATIONS ARE A PART OF THESE CONSTRUCTION DOCUMENTS AND MUST BE REFERRED TO FOR COMPLETE DOCUMENTATION.
10. MUD AND DEBRIS TRACKED ONTO OWNER PAVING OR CITY STREETS TO BE CLEANED IMMEDIATELY. GENERAL CONTRACTOR TO COORDINATE CONCRETE WASH DOWN AREA.
11. IT IS IMPERATIVE THAT THE ROOF FRAMING AND ROOFING SYSTEM BE KEPT INTACT TO ELIMINATE POTENTIAL WATER DAMAGE OR MOISTURE INFILTRATION. THE CONTRACTOR SHALL KEEP THE BUILDING WATERTIGHT AT ALL TIMES AND MAKE REPAIRS IMMEDIATELY SHOULD ANY DAMAGE OCCUR TO THE ROOFING SYSTEM.
12. PER THE WHOLE FOODS LEASE AGREEMENT, GENERAL CONTRACTOR SHALL BE RESPONSIBLE TO CONTRACT WITH LANDLORD'S ROOFING CONTRACTOR. GENERAL CONTRACTOR TO COORDINATE ALL SUCH PENETRATIONS WITH THE LANDLORD.
13. DO NOT SCALE DRAWINGS.
14. GENERAL CONTRACTOR WILL PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. AUTHORITY HAVING JURISDICTION WILL APPROVE FINAL FIRE EXTINGUISHER LOCATIONS.
15. GENERAL CONTRACTOR WILL FURNISH AND INSTALL ALL EQUIPMENT, MATERIALS, ETC UNLESS IT IS SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. GENERAL CONTRACTOR TO NOTIFY THE OWNER OF QUESTIONS OR DISCREPANCIES PRIOR TO BID SUBMISSIONS.
16. GENERAL CONTRACTOR RESPONSIBLE TO ARRANGE PRE CONSTRUCTION MEETING WITH ALL TRADES AND THE OWNER. MEETING SHALL TAKE PLACE PRIOR TO COMMENCING WORK OR ORDERING MATERIALS.
17. GENERAL CONTRACTOR SHALL PROVIDE COMPLETE EXISTING CONDITIONS DOCUMENTS AT COMPLETION OF PROJECT.
18. ALL WOOD BLOCKING, CLEATS, GROUNDS, SHEATHING AND OTHER MISC. CARPENTRY ITEMS SHALL BE FIRE RETARDENT TREATED.

SITE VERIFICATION REQUIREMENTS

1. ANY DISCREPANCY WITH THE EXISTING SITE CONDITIONS AND/OR THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR CLARIFICATION AND INSTRUCTION. THESE CONSTRUCTION DOCUMENTS HAVE BEEN DESIGNED AND DRAWN ASSUMING EXISTING BUILDING CONDITIONS MATCH THE ORIGINAL DRAWINGS. THE CONTRACTOR, IMMEDIATELY UPON ARRIVAL AT THE SITE, SHALL VERIFY ALL EXISTING STRUCTURAL COLUMN DIMENSIONS, STRUCTURAL BEARING HEIGHTS AND EXISTING DIMENSIONS. IF DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE DRAWINGS AND EXISTING FIELD CONDITIONS, CONTACT THE CONSTRUCTION MANAGER AND THE ARCHITECT IMMEDIATELY TO DETERMINE WHAT ACTION SHOULD BE TAKEN TO MATCH EXISTING CONDITIONS. THE BEGINNING OF CONSTRUCTION BY THE GENERAL CONTRACTOR MEANS ACCEPTANCE OF THE EXISTING CONDITIONS.
2. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES (WHETHER SHOWN OR NOT) PRIOR TO THE SUBMISSION OF HIS BID OR THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER AND ARCHITECT OF THE DISCOVERY OF EXISTING UTILITIES NOT SHOWN OR NOTED ON DRAWINGS.
3. THE CONTRACTOR SHALL VERIFY THE EXISTING FINISH FLOOR ELEVATION AT ALL OPENINGS OF THE BUILDING SHELL PRIOR TO ESTABLISHING THE FINISH FLOOR ELEVATION.
4. REPORT ANY DISCREPANCIES FOUND IN THE FIELD IMMEDIATELY TO THE 365 CONSTRUCTION MANAGER AND THE ARCHITECT PRIOR TO MAKING ANY STRUCTURAL MODIFICATIONS OR ORDERING ANY MATERIALS.

STRIPING CONDITIONS

STRIPING ON FLOOR

STRIPING REQUIREMENTS/NOTES

1. 5" WIDE PAINTED STRIPES AT 12" ON CENTER, AT 45 DEGREE ANGLE TO 5" WIDE EXTERIOR BOUNDARY LINES
2. REF FLOOR FINISH PLAN FOR ADDITIONAL STRIPING LOCATIONS.

ACCESSIBILITY NOTES

1. FLOOR SURFACES SPECIFIED ARE SLIP-RESISTANT.
2. ABRUPT CHANGES IN LEVEL ALONG ACCESSIBLE ROUTE DO NOT EXCEED 1/2" IN HEIGHT. CHANGES BETWEEN 1/4" AND 1/2" ARE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.
3. LATCHING AND LOCKING DOORS ARE SPECIFIED TO BE OPERABLE WITH A SINGLE EFFORT BY HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. DOOR OPENING HARDWARE IS SPECIFIED TO BE MOUNTED BETWEEN 34" AND 48" ABOVE FLOOR FINISH.
4. CLOSERS FOR FIRE-RATED DOORS ARE SPECIFIED TO BE POWER LEVEL 3 FOR INTERIOR DOORS 38" OR LESS IN WIDTH.
5. MAXIMUM PULL OR PUSH EFFORT TO OPERATE NON-FIRE-RATED DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. SPECIFIED CLOSERS TO BE ADJUSTED TO COMPLY.
6. ALL DOORS ARE SPECIFIED TO BE NOT LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS ARE CAPABLE OF OPENING AT LEAST 90 DEGREES AND CLEAR WIDTH IS NOT LESS THAN 32".
7. FLOOR AREAS ON EACH SIDE OF DOORS ARE SPECIFIED TO BE LEVEL AND CLEAR. THE DIMENSIONS OF THE LEVEL AREAS ARE SPECIFIED TO MEET ANSI A117.3 2009, IAC AND ADA CLEARANCE REQUIREMENTS.
8. FLOOR AREAS ON EACH SIDE OF DOORS ARE SPECIFIED TO BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGE IN LEVEL BETWEEN 1/4" AND 1/2" IS SPECIFIED TO BE BEVELED WITH A SLOPE NO STEEPER THAN 1:2.
9. NOT USED.
10. NOT USED.
11. TOILET ROOM ACCESSORIES
    A. BOTTOM OF MIRROR REFLECTIVE SURFACE IS SPECIFIED TO BE NO HIGHER THAN 40" FROM THE FLOOR.
    B. TOILET TISSUE DISPENSERS ARE MOUNTED BETWEEN 7" AND 9" FROM THE FRONT EDGE OF THE TOILET SEAT.
    C. DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS ARE MOUNTED NO HIGHER THAN 48" A.F.F.
12. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) IS BETWEEN 17" AND 19".
13. FLUSH CONTROLS ARE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST CLEARANCE FROM ADJACENT WALL, TOILET PARTITION OR OTHER SURFACE.
14. GRAB BARS ARE PROVIDED IN COMPLIANCE WITH ANSI A117.1 2009.
    A. GRAB BARS TO BE 34" ABOVE AND PARALLEL TO THE FLOOR
    B. DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2"
    C. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
    D. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPOR BACKING, ETC.) SHALL SUPPORT A 250-POUND LOAD.
    E. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
    F. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
    G. EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8"
15. CLEAR FLOOR SPACE 30" x 48" IS PROVIDED IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.
16. SINKS AND LAVATORIES ARE MOUNTED TO COMPLY WITH KNEESPACE REQUIREMENTS OF ANSI A117.1 2009.
17. FAUCET CONTROLS AND OPERATING MECHANISMS ARE TO BE OPERABLE WITH ONE HAND AND NOT REQUIRED TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVEATE CONTROLS SHALL NOT BE GREATER THAN 5 POUNDS. SELF CLOSING CONTROLS ARE TO REMAIN OPEN FOR AT LEAST 10 SECONDS.
18. HOT WATER AND DRAIN PIPES UNDER LAVATORIES ARE INSULATED OR OTHERWISE COVERED.
19. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

RESTROOM SYMBOLS

SIGNS & IDENTIFICATION

1. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE THE STANDARD USED TO IDENTIFY FACILITIES THAT ARE ACCESSIBLE TO AND USABLE BY PHYSICALLY DISABLED PERSONS AS SET FORTH IN TITLE III AND AS SPECIFICALLY REQUIRED IN THIS SECTION
2. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL CONSIST OF A WHITE FIGURE ON A BLUE BACKGROUND. THE BLUE SHALL BE EQUAL TO COLOR NO. 15090 IN FEDERAL STANDARD 599B. PICTOGRAMS AND THEIR FIELDS SHALL HAVE A NON-GLARE FINISH, PICTOGRAMS SHALL CONTRAST THEIR FIELDS, WITH EITHER A LIGHT PICTOGRAM ON A DARK FIELD OR A DARK PICTOGRAM ON A LIGHT FIELD.
3. FOR CHARACTER WIDTH, THE UPPERCASE LETTER "O" SHALL BE USED TO DETERMINE THE ALLOWABLE WIDTH OF ALL CHARACTERS OF A FONT. THE WIDTH OF THE UPPERCASE LETTER "O" OF THE FONT SHALL BE 55 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I" OF THE FONT. (2010 ADA SECTION 703.2) CHARACTER HEIGHT MEASURED FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (16 MM) MINIMUM AND 2 INCHES (51 MM) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
4. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH 2010 ADA TABLE 703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I".
5. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND
6. WHEN RAISED CHARACTERS OR SYMBOLS ARE USED, THEY SHALL CONFORM TO THE FOLLOWING:
   A. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE
   B. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH AND 2" MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I".
   C. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
7. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE SYMBOLS ARE SPECIFICALLY REQUIRED IN OTHER PORTIONS OF THESE REGULATIONS. DOTS SHALL BE 0.090" (2.3 MM) TO 0.100" (2.5 MM) ON CENTER IN EACH CELL WITH 0.241 (6.1 MM) TO 0.300" (7.6 MM) SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 0.025" (0.6 MM) TO 0.037" (0.9 MM) ABOVE THE BACKGROUND.
8. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, RAISED LETTERS SHALL BE ACCOMPANIED BY BRAILLE. SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER, WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES (455 MM) MINIMUM BY 18 INCHES (455 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. EXCEPTION: SIGNS WITH TACTILE CHARACTERS SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

ABBREVIATION LEGEND

AB	ANCHOR BOLT	LONG	LONGITUDINAL
ABV	ABOVE	MAX	MAXIMUM
ACI	AMERICAN CONCRETE INSTITUTE	MDF	MEDIUM DENSITY FIBERBOARD
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MFR	MANUFACTURER
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MIN	MINIMUM
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MO	MASONRY OPENING
AWS	AMERICAN WELDING SOCIETY	MTL	METAL
BD	BOARD	NIC	NOT IN CONTRACT
BFF	BELOW FINISHED FLOOR	NO	NUMBER
BL	BLOCK LINTEL	NRP	NON-FIBERGLASS REINFORCED PLASTIC
BLDG	BUILDING	NS	NEAR SIDE
BO	BOTTOM OF	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL OR BOTTOM OF STUD	OC	ON CENTER
BRG	BEARING	OCH	ON CENTER HORIZONTALLY
BTM	BOTTOM	OCV	ON CENTER VERTICALLY
CJ	CONTRACTION JOINT	OD	OUTSIDE DIAMETER
CL	CENTERLINE	OH	OPPOSITE HAND
CLR	CLEAR	OTS	OPEN TO STRUCTURE
CMU	CONCRETE MASONRY UNIT	PAF	POWDER ACTUATED FASTENER
COL	COLUMN	PCF	POUNDS PER CUBIC FOOT
CONC	CONCRETE	PL	PLATE
CONST	CONSTRUCTION	PLAM	PLASTIC LAMINATE
CONT	CONTINUOUS	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PMEJ	PREMOLDED EXPANSION JOINT
DM	DEMISING WALL	PSF	POUNDS PER SQUARE FOOT
DS	DOWNSPOUT	PSI	POUNDS PER SQUARE INCH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	PT	PRESSURE TREATED
EJ	EXPANSION JOINT	PVC	POLYVINYL CHLORIDE
EL	ELEVATION	QTY	QUANTITY
ELEC	ELECTRICAL	REF	REFER TO
EQ	EQUAL	REINF	REINFORCING
ES	EQUIPMENT SUPPLIER	REQD	REQUIRED
ETR	EXISTING TO REMAIN	REV	REVERSE
EW	EACH WAY	RI	REACH-IN
EXT	EXTERIOR	RO	ROUGH OPENING
FDN	FOUNDATION	RTU	ROOF TOP UNIT
FF	FINISHED FLOOR	SB	SOUND BATT INSULATION
FS	FAR SIDE	SCHED	SCHEDULE
FTG	FOOTING	SDI	STEEL DECK INSTITUTE
FV	FIELD VERIFY	SIM	SIMILAR
GA	GAUGE	SJI	STEEL JOIST INSTITUTE
GC	GENERAL CONTRACTOR	SM	SECURITY MESH
GYP BD	GYPSUM BOARD	SP	SPACES
H	HEIGHT	SPECS	SPECIFICATIONS
HORIZ	HORIZONTAL	SS	STAINLESS STEEL
HSA	HEADED STUD ANCHOR	STRUC	STRUCTURAL
HSS	HOLLOW STRUCTURAL SECTION	T&B	TOP AND BOTTOM
INFO	INFORMATION	THK	THICKNESS
ISO	ISOLATION	TO	TOP OF
J-BOX	JUNCTION BOX	TOC/TC	TOP OF CONCRETE
JBE	JOIST BEARING ELEVATION	TOF	TOP OF FOOTING
JST	JOIST	TOGB	TOP OF GRADE BEAM
JT	JOINT	TOM	TOP OF MASONRY
KSI	KIPS PER SQUARE INCH	TOP/TP	TOP OF PAVING
L	LENGTH	TOS	TOP OF STEEL OR TOP OF STUD
LB	POUNDS	TRANS	TRANSVERSE
LLH	LONG LEG HORIZONTAL	TYP	TYPICAL
LLV	LONG LEG VERTICAL	UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
		VTR	VENT THROUGH ROOF
		W	WIDTH
		WD	WOOD

A LOCATIONS AT CORNERS
OUTLETS

B LOCATIONS AT COLUMNS, BETWEEN DOORS, ETC
OUTLETS, STROBES, AND THERMOSTATS

C LOCATIONS AT OPEN DOORS
SWITCHES, STROBES, AND THERMOSTATS

D LOCATIONS AT DOOR JAMBS
THERMOSTAT, STROBE, OR OUTLET

E LOCATIONS AT DOOR JAMBS
CARD READER, EGRESS BUTTON, OR FIRE ALARM PULL

F LOCATIONS AT DOOR JAMBS
SWITCH AND TELEPHONE

G LOCATIONS AT DOOR JAMBS
SWITCH AND THERMOSTAT

H LOCATIONS FOR EXIT SIGNS
WALL MOUNTED

I LOCATIONS AT CORNERS WITH REVEALS
STROBES AND THERMOSTATS

J LOCATIONS AT WORK SURFACES
OUTLETS

K LOCATIONS AT FIRE EXTINGUISHER CABINET
STROBES AND FIRE ALARM PULLS

L LOCATIONS FOR TYPICAL SIGNS

M LOCATIONS AT CORNERS
OUTLETS, STROBES, AND THERMOSTATS

N LOCATIONS AT CORNERS
SWITCHES, OUTLETS, STROBES, AND THERMOSTATS

O ALOHA ORDERING KIOSKS
OUTLETS, PRINTERS

P BUMP BAR IN KITCHEN
OUTLETS

LOCATION OF FIRE EXTINGUISHERS ARE DICTATED BY FIRE MARSHAL
ALL DIMENSIONS ARE TO CENTER LINE OF DEVISE OR BOTTOM, REFER TO DIMENSION LINE FOR LOCATION.

REFERENCE 'TACTILE EXIT SIGN' DIAGRAM (ABOVE) FOR FURTHER REQUIREMENTS

1 MOUNTING LOCATIONS - GENERAL

1/4" = 1'-0"

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brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager:
YC
Checked By:

Drawn by:
ARL
Document date:
01/29/18
Template date:

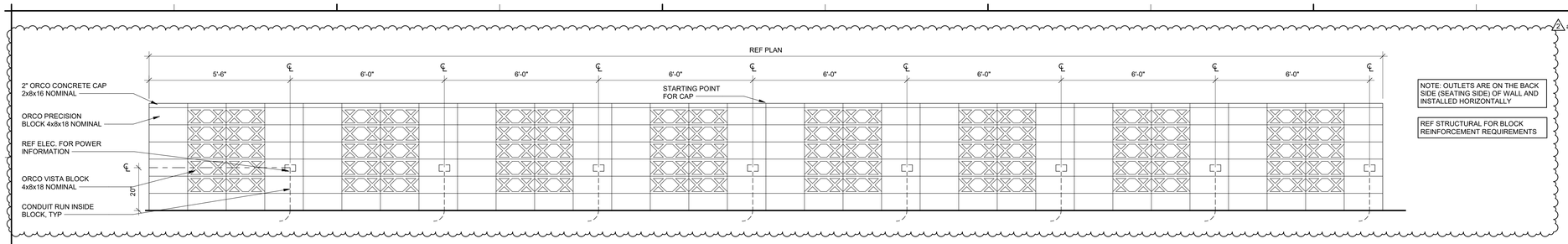
Project No.
62911019

Professional Seal

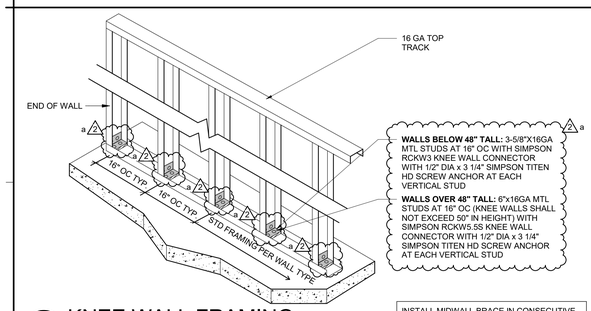
Sheet Title
GENERAL INFORMATION

Sheet No.
G002

BRR Original printed on recycled paper

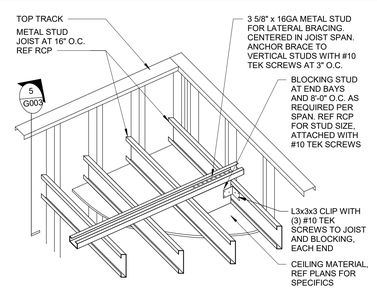


10 SCREEN WALL
1/2" = 1'-0"

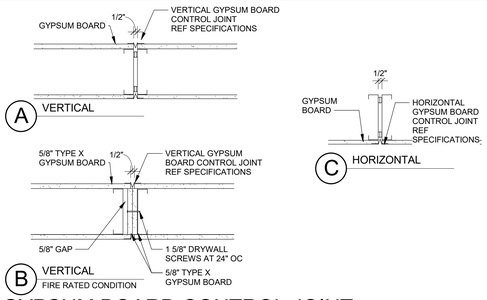


INSTALL MIDWALL BRACE IN CONSECUTIVE STUDS AT END OF WALL. SPACING OF MIDWALL BRACE EVERY STUD, NOT TO EXCEED 36" O.C. AT REMAINDER OF WALL

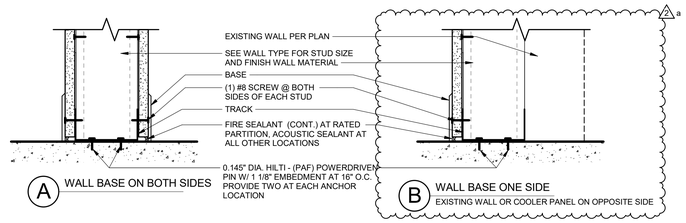
9 KNEE WALL FRAMING
1 1/2" = 1'-0"



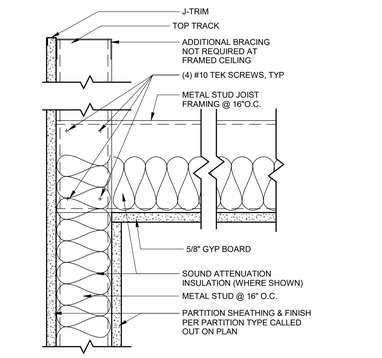
8 STUD CEILING DETAIL
3/4" = 1'-0"



7 GYPSUM BOARD CONTROL JOINT
1 1/2" = 1'-0"

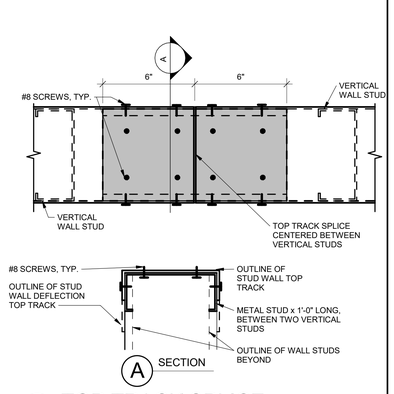


6 WALL BASE
3" = 1'-0"

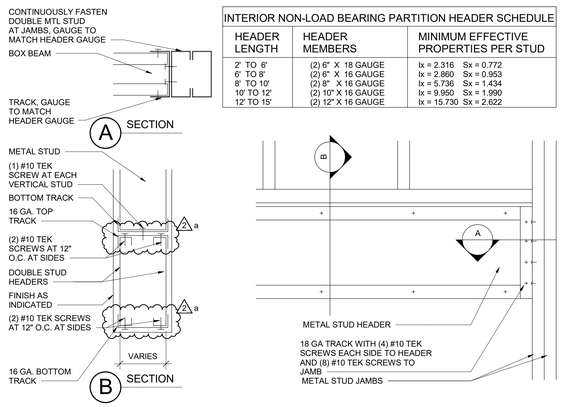


5 WALL AT GYP CEILING
3" = 1'-0"

FOR FRAMING INFORMATION RELATED TO STUD/GYP CEILINGS. REF 8 / G003

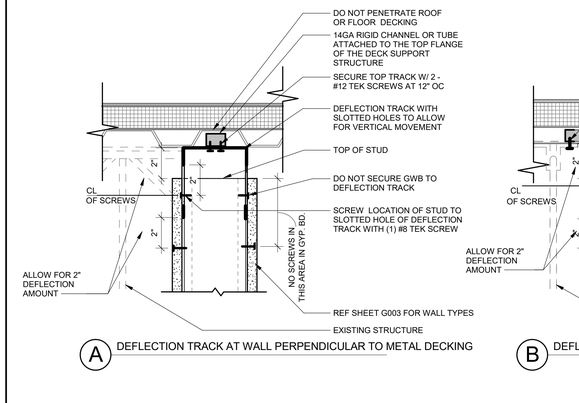


4 TOP TRACK SPLICE
3" = 1'-0"



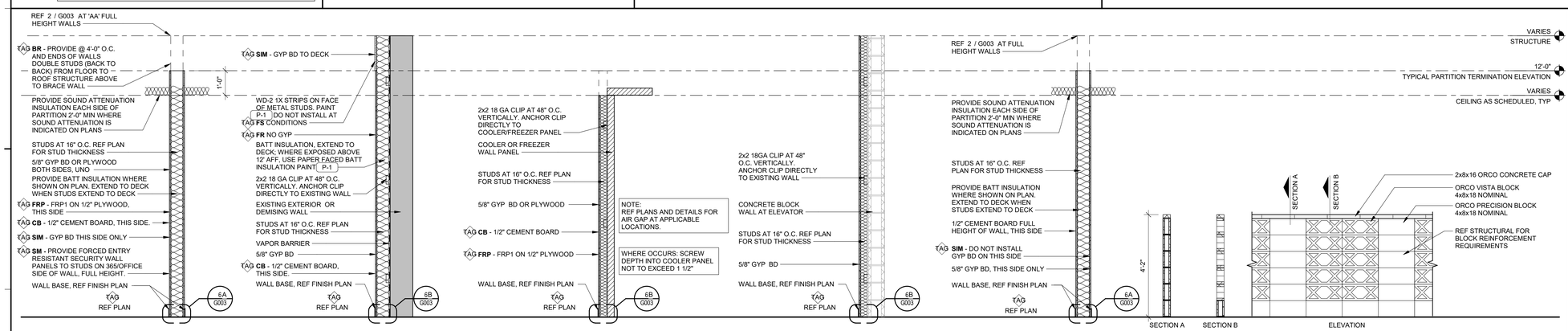
INTERIOR NON-LOAD BEARING PARTITION HEADER SCHEDULE		
HEADER LENGTH	HEADER MEMBERS	MINIMUM EFFECTIVE PROPERTIES PER STUD
2' TO 6'	(2) 6" X 18 GAUGE	Ix = 2.316 Sx = 0.772
6' TO 8'	(2) 6" X 16 GAUGE	Ix = 2.860 Sx = 0.953
8' TO 10'	(2) 8" X 16 GAUGE	Ix = 5.736 Sx = 1.434
10' TO 12'	(2) 10" X 16 GAUGE	Ix = 9.950 Sx = 1.990
12' TO 15'	(2) 12" X 16 GAUGE	Ix = 15.730 Sx = 2.622

3 HEADER CONNECTION
1 1/2" = 1'-0"



2 NON-RATED DEFLECTION TRACK
3" = 1'-0"

NOTE:
- DO NOT PENETRATE METAL ROOF DECK
- DEFLECTION AMOUNT MUST BE ADJUSTED BASED ON ROOF DECK LOADS, SNOW, ETC. AT TIME OF INSTALL AND SITE LOCATION.

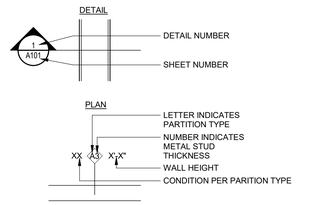


1 PARTITION TYPES
1/2" = 1'-0"

PARTITION NOTES

1. ALL PARTITIONS TO TERMINATE AT 12'-0" AFF, UNO.
2. REF CAPTURE TRACK DETAILS FOR DEFLECTION REQUIREMENTS.
3. METAL STUDS ARE SPACED AT 16" ON CENTER MAX UNO.
4. ALL GYPSUM BOARD IS TO BE 5/8" THICK UNO.
5. STUD WALLS RECEIVING PLYWOOD SHALL BE 20 GAUGE OR HEAVIER.
6. MAXIMUM HEIGHT OF NON LOAD BEARING WALL ABOVE HEADER TO BE 14'-9".
7. WALLS TAGGED NIC ARE NOT IN CONTRACT (BY OTHERS).

LEGEND



METAL STUD THICKNESS:
1 - 1 5/8" METAL STUD
2 - 2 1/2" METAL STUD
3 - 3 5/8" METAL STUD
6 - 6" METAL STUD
8 - 8" METAL STUD
* IF NO NUMBER IS PROVIDED, REFER TO PARTITION TYPES AND NOTES FOR HEIGHT

REF A102 FOR COOLER/FREEZER INFORMATION

DENOTES EXISTING WALL

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brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
PARTITION TYPES & DETAILS

Sheet No.
G003

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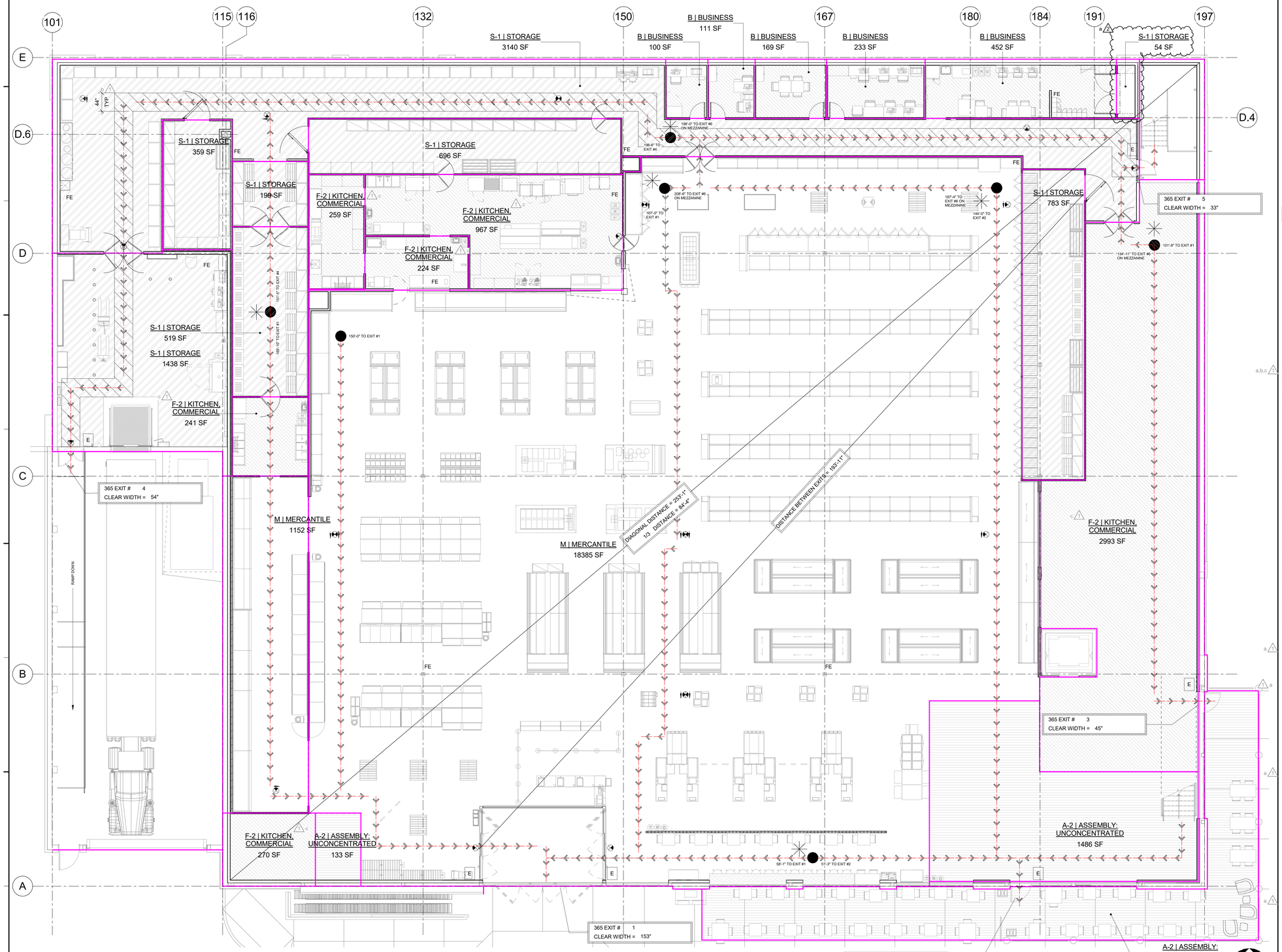


1 LIFE SAFETY PLAN
1/8" = 1'-0"

5/21/2018 5:11:28 PM

SHEET NOTES

1. MAINTAIN A MINIMUM OF 3'-0" AISLE WIDTH ON THE SALES FLOOR WHERE MERCHANDISE OR OTHER OBSTRUCTIONS ARE PLACED ON ONE SIDE OF THE AISLE, AND 3'-6" AISLE WIDTH WHEN SUCH OBSTRUCTIONS ARE PLACED ON BOTH SIDES OF THE AISLE.
2. REFER TO ELECTRICAL LIGHTING PLANS FOR EXIT SIGNS AND EMERGENCY LIGHTING. EMERGENCY LIGHTING WILL BE SUBJECT TO INSPECTION FROM THE FIRE MARSHAL HAVING AUTHORITY PRIOR TO FINAL APPROVALS.
3. REFER TO FINISH PLAN FOR REQUIRED EGRESS STRIPING AT PANTRY.
4. ALL EXIT SIGNS TO BE MOUNTED ON WALL/CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.

LEGEND

- EGRESS ROUTE 250' MAX. TRAVEL PATH
- CHOICE OF TWO DIRECTIONS
- DF — DRINKING FOUNTAIN
- START POINT
- EXIT SIGN W/ DIRECTIONAL ARROWS
- E — TACTILE EXIT SIGN
- FE — FIRE EXTINGUISHER
- FEC — FIRE EXTINGUISHER CABINET
- 44" EGRESS PATH MARKING ON AREAS THAT PASS THROUGH STORAGE

OCCUPANT TYPE

- A-2 | ASSEMBLY: UNCONCENTRATED
- A-2 | ASSEMBLY: UNCONCENTRATED (EXTERIOR)
- A-2 | ASSEMBLY: UNCONCENTRATED (MEZZANINE)
- B | BUSINESS
- F-2 | KITCHEN, COMMERCIAL
- M | MERCANTILE
- S-1 | STORAGE

LIFE SAFETY CALCULATIONS

MAIN LEVEL OCCUPANCY LOAD CALCULATIONS

NAME	AREA (SF)	LOAD FACTOR	OCCUPANTS	WIDTH FACTOR	REQUIRED WIDTH (IN)
A-2 | ASSEMBLY: UNCONCENTRATED	1,619	15	108	0.2	22
A-2 | ASSEMBLY: UNCONCENTRATED (EXTERIOR)	1,583	15	106 (NOT ADDED TO TOTAL)	N/A	N/A
A-2 | ASSEMBLY: UNCONCENTRATED (MEZZANINE)	4,121	15	275	0.2	55
B | BUSINESS	1,664 [2] a	100	11	0.2	3
F-2 | KITCHEN, COMMERCIAL	4,953	100	50	0.2	10
M | MERCANTILE	19,850 [1] a	30	662	0.2	133
S-1 | STORAGE	7,168 [1] a	300	24	0.2	5
TOTAL	40,380		1,130 [2] b		228

EGRESS CAPACITY AT EXTERIOR DOORS

EXIT DOOR	EXIT CLEAR WIDTH
1	153" [1] a
2	45"
3	45"
4	54"
6	66"
TOTAL WIDTH PROVIDED	363" [1] b

EGRESS SUMMARY

[1] a

TOTAL WIDTH PROVIDED	363"
TOTAL WIDTH REQUIRED	228"
1/2 WIDTH REQUIRED	114"

WATER CLOSET COUNTS BY OCCUPANTS

NAME	OCCUPANTS	WC FACTOR	WATER CLOSETS PER GENDER
A-2 | ASSEMBLY	489 / 2 = 245	1 PER 75	3.26
F-2 | KITCHEN, COMMERCIAL	50 / 2 = 25	1 PER 100	0.25
B | BUSINESS	11 / 2 = 6	1 PER 25 UP TO 50, 1 PER 50 OVER 50	0.12
M | MERCANTILE	662 / 2 = 331	1 PER 500	0.66
S-1 | STORAGE	25 / 2 = 13	1 PER 100	0.13
TOTAL FIXTURES REQUIRED			5

LAVATORY COUNTS BY OCCUPANTS

NAME	OCCUPANTS	LAVATORY FACTOR	LAVATORY PER GENDER
A-2 | ASSEMBLY	489 / 2 = 245	1 PER 200	1.23
F-2 | KITCHEN, COMMERCIAL	50 / 2 = 25	1 PER 100	0.25
B | BUSINESS	11 / 2 = 6	1 PER 40 UP TO 80, 1 PER 80 OVER 80	0.08
M | MERCANTILE	662 / 2 = 331	1 PER 750	0.44
S-1 | STORAGE	25 / 2 = 13	1 PER 100	0.13
TOTAL FIXTURES REQUIRED			3

PLUMBING FIXTURE COUNTS

PER CHAPTER 29 (2012 IBC)		
LAVATORIES		
	REQUIRED:	SEE LAVATORY COUNTS BY OCCUPANTS TABLE
WATER CLOSETS		
	REQUIRED:	SEE WATER CLOSET COUNTS BY OCCUPANTS TABLE
	URINALS PROVIDED:	2
DRINKING FOUNTAINS		
	REQUIRED:	1 (BOTH HIGH/LOW)
	PROVIDED	2 (BOTH HIGH/LOW)

brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

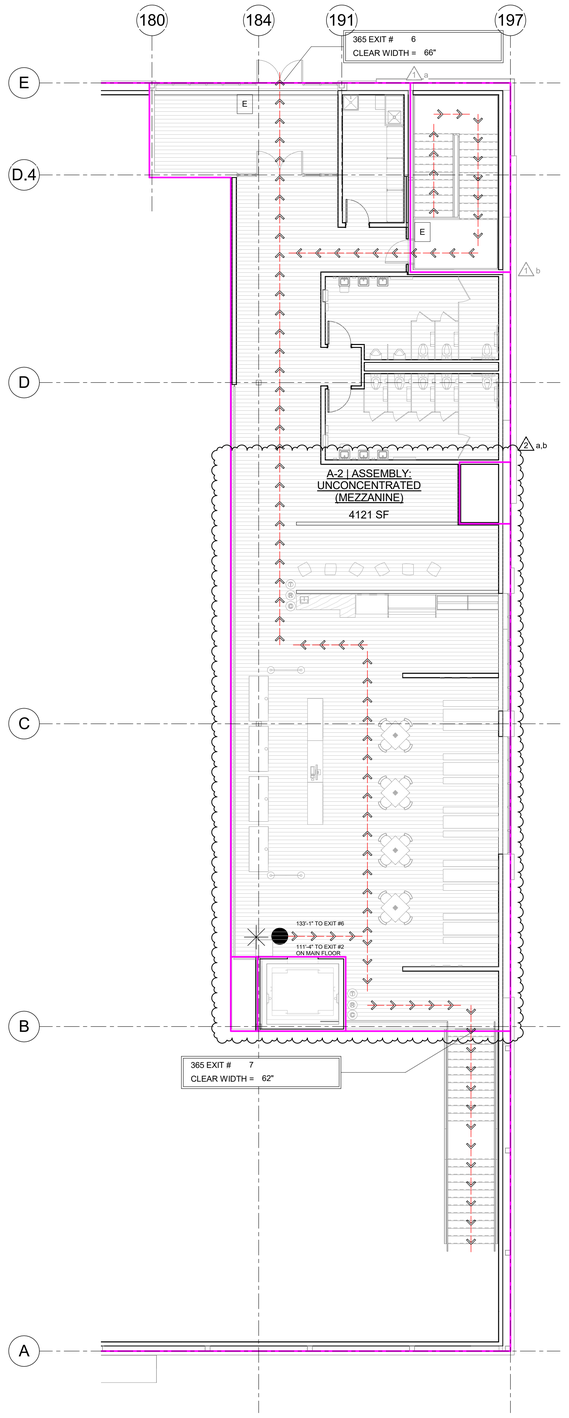
Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
FIRST FLOOR LIFE SAFETY PLAN

Sheet N
G004-A



1 MEZZANINE LIFE SAFETY PLAN
1/8" = 1'-0"

SHEET NOTES

1. MAINTAIN A MINIMUM OF 3'-0" AISLE WIDTH ON THE SALES FLOOR WHERE MERCHANDISE OR OTHER OBSTRUCTIONS ARE PLACED ON ONE SIDE OF THE AISLE, AND 3'-6" AISLE WIDTH WHEN SUCH OBSTRUCTIONS ARE PLACED ON BOTH SIDES OF THE AISLE.
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3. REFER TO FINISH PLAN FOR REQUIRED EGRESS STRIPING AT PANTRY.
4. ALL EXIT SIGNS TO BE MOUNTED ON WALL/CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.

LEGEND

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- CHOICE OF TWO DIRECTIONS
- DF — DRINKING FOUNTAIN
- START POINT
- EXIT SIGN W/ DIRECTIONAL ARROWS
- E — TACTILE EXIT SIGN
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- 44" EGRESS PATH MARKING ON AREAS THAT PASS THROUGH STORAGE

OCCUPANT TYPE

- A-2 | ASSEMBLY: UNCONCENTRATED
- A-2 | ASSEMBLY: UNCONCENTRATED (EXTERIOR)
- A-2 | ASSEMBLY: UNCONCENTRATED (MEZZANINE)
- B | BUSINESS
- F-2 | KITCHEN, COMMERCIAL
- M | MERCANTILE
- S-1 | STORAGE
- Calculating...

EGRESS CAPACITY AT EXTERIOR DOORS

EXIT DOOR	EXIT CLEAR WIDTH
1	153"
2	45"
3	45"
4	54"
6	66"
TOTAL WIDTH PROVIDED	363"

EGRESS SUMMARY

TOTAL WIDTH PROVIDED	363"
TOTAL WIDTH REQUIRED	228"
1/2 WIDTH REQUIRED	114"

MEZZANINE OCCUPANCY LOAD CALCULATIONS

NAME	AREA (SF)	LOAD FACTOR	OCCUPANTS	WIDTH FACTOR	REQUIRED WIDTH (IN)
A-2	ASSEMBLY: UNCONCENTRATED (MEZZANINE)	4,121	15	275	0.2	55
TOTAL	4,121		275		55

brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
MEZZANINE LIFE SAFETY PLAN

Sheet N
G004-B

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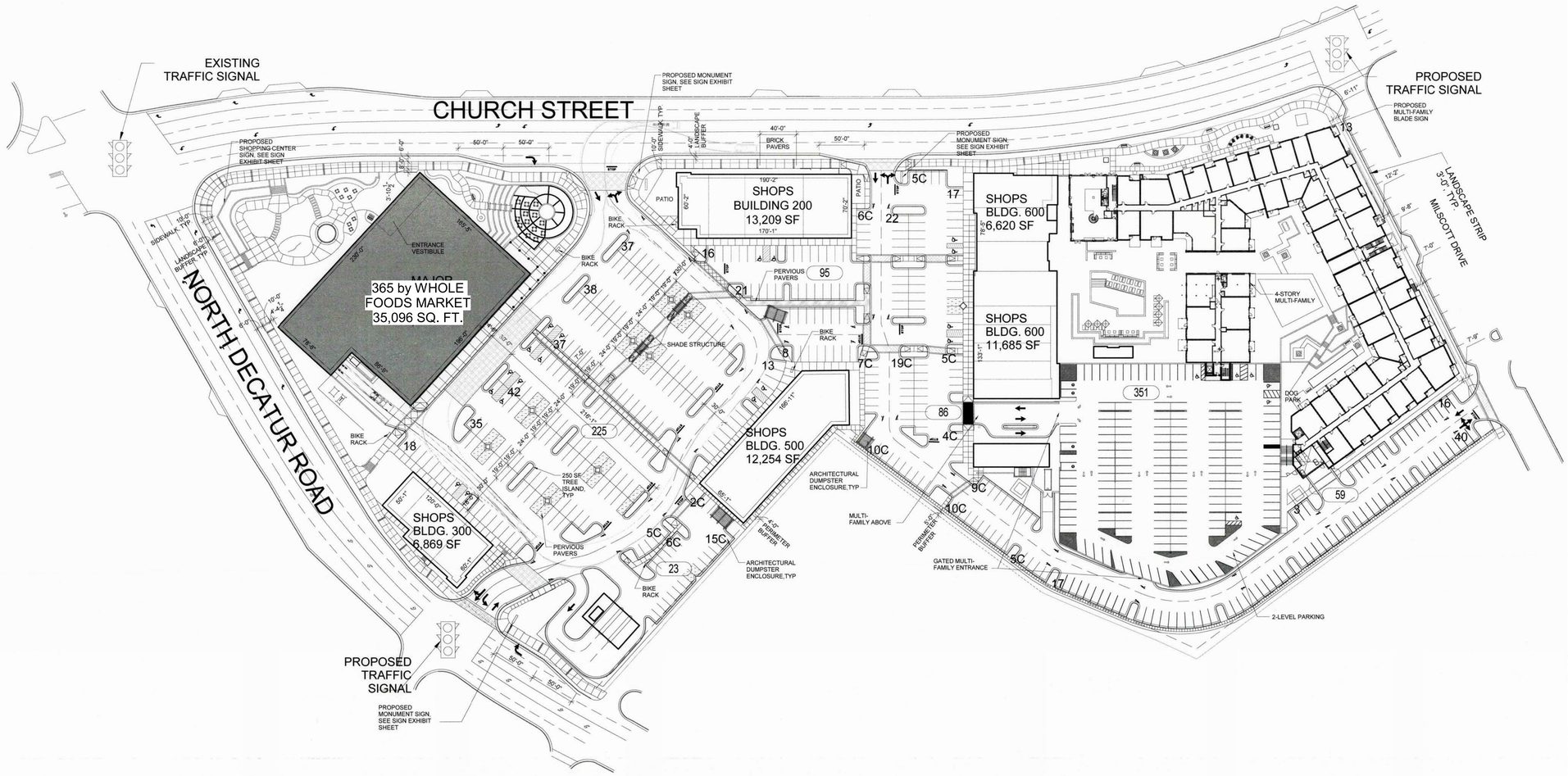

1 SITE PLAN
NTS

SHEET INCLUDED FOR INFORMATION ONLY:

NOTE: THIS SHEET IS A COPY OF THE AVAILABLE AS-BUILT SITE PLAN FOR THIS PROJECT. THIS SHEET IS PROVIDED FOR ADDITIONAL INFORMATION OF THE ASSUMED EXISTING CONDITIONS AT THE PROJECT SITE. THE ARCHITECT OF RECORD HAS MADE NO MODIFICATIONS TO THE SITE PLAN AND CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OF THE CONDITIONS ILLUSTRATED.

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

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Template date:

Project No.
62911019

Professional Seal

FOR REFERENCE ONLY

Sheet Title
PARTIAL SITE PLAN (FOR REFERENCE ONLY)

Sheet No.
G005

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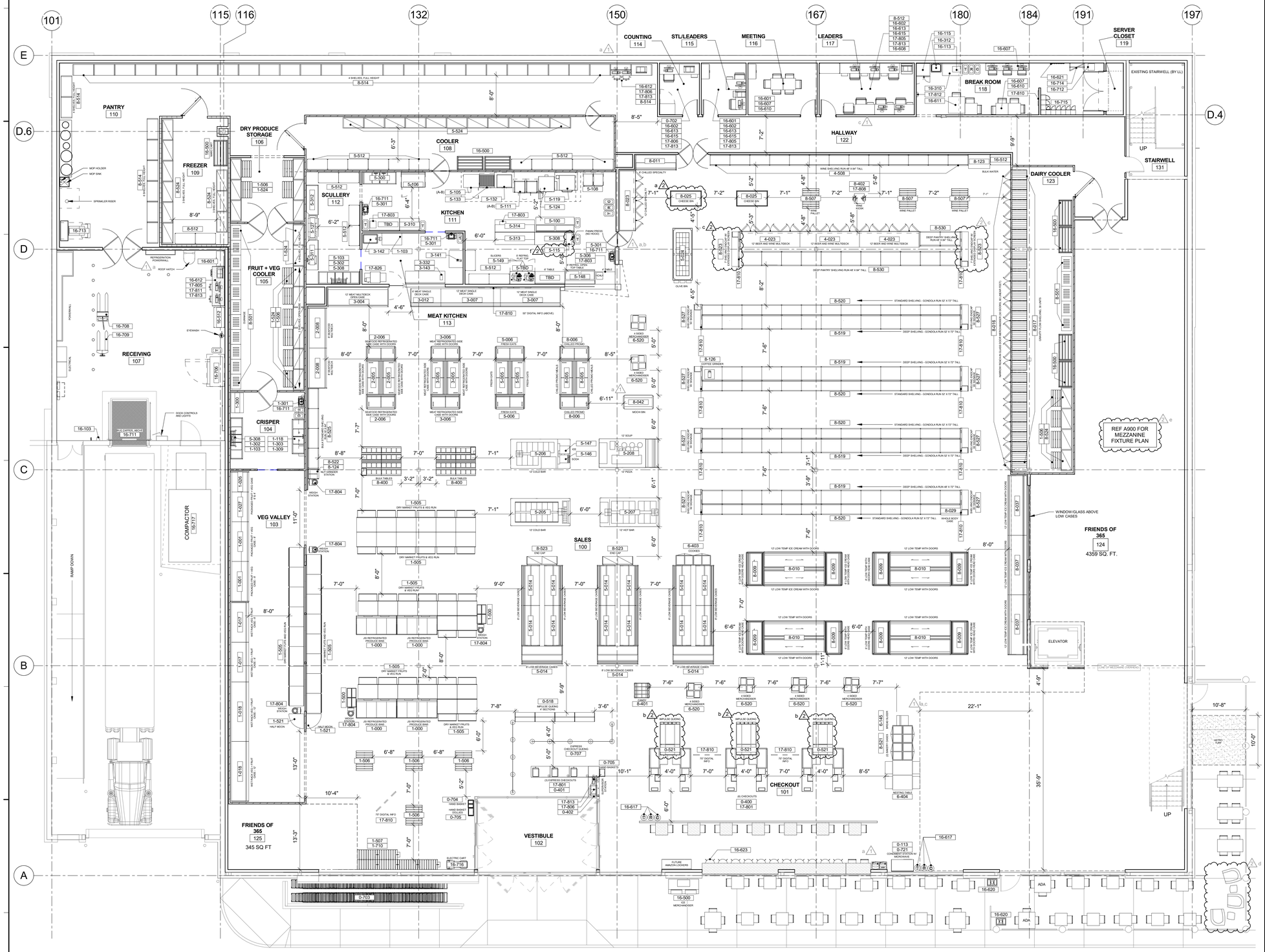

1 FIXTURE PLAN AND GENERAL CLEARANCES

1/8" = 1'-0"

5/21/2019 5:09:11 PM

SHEET NOTES

1. REFER TO A0.2 FOR EQUIPMENT SCHEDULE INFORMATION.
2. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT.
3. REGARDING FURNISH AND INSTALL INSTRUCTIONS FOR EQUIPMENT AND FURNITURE, REF. RESPONSIBILITY MARIX ON SHEET G001.
4. REFER TO EQUIPMENT CUTSHEETS AND FURNITURE VENDOR DRAWINGS FOR INSTALL INSTRUCTIONS AND DIRECTION. COORDINATE WITH 365 REPRESENTATIVE FOR CUTSHEET INFORMATION.
5. REFER TO A700 SHEET FOR ADDITIONAL INFORMATION REGARDING MILLWORK.
6. DIMENSIONS NOTED AS 'HOLD' OR 'CLEAR' ARE TO BE PRESERVED FOR REQUIRED CLEARANCES.
7. PROVIDE ADEQUATE CLEARANCES BEHIND REFRIGERATED CASES, PER MANUFACTURER'S EQUIPMENT CUTSHEETS. COORDINATE WITH 365 REPRESENTATIVE FOR CUTSHEET INFORMATION.
8. PROVIDE BLOCKING, AS REQUIRED, FOR REFRIGERATION EQUIPMENT AND ARTWORK.

LEGEND

MILLWORK PROVIDED AND INSTALLED BY GC

ASTRO TURF

AREA SUMMARY

FRONT VS BACK

AREA	SQUARE FOOT	PERCENTAGE
BACK OF HOUSE	10,263	29%
SALES AND FRIENDS	24,794	71%
GROSS AREA	35,057	100%

SALES VS FRIENDS OF 365

AREA	SQUARE FOOT	PERCENTAGE
FRIENDS OF 365	5,160	21%
SALES	19,631	79%
TOTAL SALES FLOOR AREA	24,790	100%

DEPARTMENT SUMMARY

DESCRIPTION	QTY	LENGTH (LF)
0000 SERIES - FRONT END		
FUTURE AMAZON LOCKERS	1	6'
IMPULSE QUEING	6	24'
IMPULSE QUEUING	3	0'
SMALL CONDIMENT STATION	1	0'
STANCHION	4	4'
1000 SERIES - PRODUCE		
BULK PRODUCE CASE	4	40'
EURO TABLE	44	176'
FLORAL PALLET DROP	6	24'
HALF MOON RISER	2	6'
HAND SINK	6	0'
PACKAGED PRODUCE CASE	4	26'
REFRIGERATED PRODUCE BINS	4	32'
2000 SERIES - SEAFOOD		
MULTI DECK REFRIGERATED CASE	2	16'
REFRIGERATED HEAD CASE WITH DOORS	2	14'
REFRIGERATED SIDE CASE WITH DOORS	2	13'
3000 SERIES - MEAT		
MULTI DECK REFRIGERATED CASE	1	12'
REFRIGERATED HEAD CASE WITH DOORS	2	14'
REFRIGERATED SIDE CASE WITH DOORS	2	13'
SINGLE DECK REFRIGERATED CASE	3	30'
4000 SERIES - BEER + WINE		
HIGH NARROW CASE WITH DOORS	3	36'
KEGERATOR	4	24'
SHELVING GONDOLA	13	52'
5000 SERIES - BEER		
DISHTABLE WITH SINK	1	2'
UC DISHWASHER	1	4'
5000 SERIES - FRESH EATS		
COLD BAR WITH DRESSING PUMPS	1	0'
COLD BAR WITH SODA & ICE	1	0'
COLD SANDWICH TOP TABLE	1	2'
FLAT TOP REFRIGERATED BASE	1	3'
HIGH SPEED OVEN	1	18'
HOT CASE	1	6'
HOT FOOD BAR	1	12'
ICE MACHINE	1	0'
LOW REFRIGERATED CASE	15	120'
MANUAL SAFETY SLICER	2	5'
OLIVE BAR	1	11'
PIZZA AND SOUP BAR	1	12'
REFRIGERATED HEAD CASE WITH DOORS	2	14'
REFRIGERATED SIDE CASE WITH DOORS	2	13'
SODA MACHINE	1	2'
STAINLESS STEEL TABLE	1	8'
WIRE SHELVING	2	72'
6000 SERIES - BAKERY		
4 WAY MERCHANDISER	6	0'
BREAD SLICER	1	0'
COOKIES	2	7'
NESTING TABLES	2	12'
8000 SERIES - PANTRY		
BAKERY CASES	2	7'
BULK WATER MACHINE	1	8'
CANDY	1	3'
CHEESE CASE	2	12'
GRAVITY FLOW SHELVING	30	60'
HIGH NARROW CASE WITH DOORS	1	12'
HIGH NARROW MULTI DECK CASE	1	8'
LOW REFRIGERATED CASE	1	8'
MOCHI BIN	1	0'
NUT GRINDER STATION	1	0'
REFRIGERATED HEAD CASE WITH DOORS	10	70'
REFRIGERATED SIDE CASE WITH DOORS	6	61'
REFRIGERATED WALL SIDE CASE WITH DOORS	3	36'
SHELVING GONDOLA	120	480'
SHELVING GONDOLA ENDCAP	10	52'
SHELVING GRAB N GO ENDCAP	2	12'
SINGLE BULK ISLAND	8	32'
WHOLE BODY CASE	1	4'
WIRE SHELVING	3	12'

STORAGE SUMMARY

DESCRIPTION	QTY	LENGTH (LF)
1000 SERIES - PRODUCE		
PALLET DROP	18	0'
WIDE SPAN SHELVING - COOLER	14	56'
5000 SERIES - FRESH EATS		
WIDE SPAN SHELVING - COOLER	11	44'
WIRE SHELVING	16	64'
8000 SERIES - PANTRY		
DUNNAGE RACK	5	15'
WIDE SPAN SHELVING	36	144'
WIDE SPAN SHELVING - COOLER	13	52'
WIRE SHELVING	2	8'

brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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365 BY WHOLE FOODS MARKET

Project Manager: YC
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Professional Seal

Sheet Title
FIRST FLOOR FIXTURE PLAN

Sheet No.
A0.1

PLAN NORTH

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EQUIPMENT SCHEDULE

ITEM NO.	QTY.	LENGTH	DESCRIPTION	MANUFACTURER	MODEL	DIMENSION	LOCATION	COMMENTS
0000 SERIES - FRONT END								
0-113	1		MICROWAVE	PANASONIC	NE-1064	W 20" x D 14" x H 12"	FRONT END	
0-400	3		CASH LANES	KILLION	CHECKOUT	W 104-1/2" x D 47-1/4" x H 35-1/2"	CHECKOUT	LEFT MODULE
0-400	3		CASH LANES	KILLION	CHECKOUT	W 104-1/2" x D 47-1/4" x H 35-1/2"	CHECKOUT	RIGHT MODULE
0-401	3		EXPRESS CHECKSTAND	LAICOR	EXPRESS 46	W 46-1/4" x D 26-3/8" x H 36"	GENERAL STORE	
0-402	1		SUPERVISOR STATION	LAICOR	SUPERVISOR COUNTER	W 46-1/2" x D 26-1/2" x H 42"	GENERAL STORE	
0-518	6	4' - 0"	IMPULSE QUEING	LOZIER	CUSTOM	W 48" x D 18" x H 48"	FRONT END	
a 2 0-521	3		IMPULSE QUEUING	ONE SOURCE	TBD	TBD	SALES FLOOR	
0-701	1		DROP SAFE	AMERICAN SECURITY	DSF 2014	W 14" x D 14" x H 20"	FRONT END	
0-702	1		SAFE	AMERICAN SECURITY	SK2013-016	W 36" x D 26" x H 59"	COUNTING	
0-703	88		SHOPPING CART	PRECISION	744 M	W 24" x D 40" x H 40"	FRONT END	
0-704	100		HAND BASKET	VERSACART	CUSTOM	W 19" x D 13" x H 9"	FRONT END	
0-705	50		HAND BASKET CART	VERSACART	CUSTOM	W 19" x D 13" x H 18"	FRONT END	
0-707	15		STANCHION	UPDATE INTERNATIONAL	RS-368K	Ø 11" x H 36"	FRONT END	
0-721	1		CONDIMENT STATION	LAICOR	LARGE CONDIMENT COUNTER	W 53-1/2" x D 27-7/8" x H 34"	FRONT END	WITH MICROWAVE
0-722	2		SMALL CONDIMENT STATION	LAICOR	CORNER COMPACT CONDIMENT COUNTER	W 26-3/8" x D 26-3/8" x H 36"	FRONT END	
1000 SERIES - PRODUCE								
1-000	4	8' - 0"	REFRIGERATED PRODUCE BINS	JSI	RBS048L-CA38-MET-201L-C	W 98-1/4" x D 46" x H 40-3/4"	PRODUCE	
1-001	2	8' - 0"	PACKAGED PRODUCE CASE	HILL PHOENIX	6DMLH-NRG	W 96" x D 42-3/4" x H 88-7/8"	VEG VALLEY	
1-017	2	8' - 0"	BULK PRODUCE CASE	HUSSMAN	P4X-EP	W 96" x D 42" x H 81-3/4"	VEG VALLEY	
1-018	2	12' - 0"	BULK PRODUCE CASE	HUSSMAN	P4X-EP	W 144" x D 42" x H 81-3/4"	VEG VALLEY	
1-026	1	4' - 0"	PACKAGED PRODUCE CASE	HILL PHOENIX	6DMLH	W 48" x D 42-3/4" x H 88-7/8"	VEG VALLEY	
1-027	1	6' - 0"	PACKAGED PRODUCE CASE	HILL PHOENIX	6DMLH	W 72" x D 42-3/4" x H 88-7/8"	VEG VALLEY	
1-103	2		HOSE REEL	THE SHOPPER INC.	HOSE REEL 50'	W 7 3/4" x D 10" x H 8 1/2"	CRISPER	
1-118	1		MISTING SYSTEM	PRODEW	CUSTOM	N/A	CRISPER	
1-300	1	4' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 48" x D 30" x H 35"	CRISPER	WITH SHELF BELOW
1-301	7		HAND SINK	AMTEKCO	DH-19D	W 17" x D 15-1/4" x H 13-1/4"	CRISPER	
1-302	1		3 COMP SINK W LR DRAINBOARDS	AMTEKCO	C-3-1824-24D	W 100" x D 29-3/4" x H 41"	CRISPER	
1-303	1		2 COMP SINK W LR DRAINBOARDS	AMTEKCO	C-2-1824-24D	W 84" x D 29-3/4" x H 41"	CRISPER	
1-309	1	2' - 0"	STAINLESS STEEL SHELF	AMTEKCO	CUSTOM	W 24" x D 12" x H 8"	CRISPER	
1-500	8	2' - 0"	SPILL BOXES	PACIFIC SOUTHWEST CONTAINER	24" OD DISPLAY CASE	W 23" x D 11" x H 7 3/4"	PRODUCE	
1-505	44	4' - 0"	EURO TABLE	JSI	ET0639	W 48" x D 33" x H 42 3/8"	PRODUCE	4 FINGER
1-506	18		PALLET DROP	-	-	W 40" x D 48" x H 4 1/2"	PRODUCE	FULL SIZE
1-507	6	4' - 0"	FLORAL PALLET DROP	-	-	W 24" x D 48" x H 4 1/2"	PRODUCE	HALF SIZE
1-521	2		HALF MOON RISER	-	-	W 36" x D 36" x H 12"	PRODUCE	
1-524	14	4' - 0"	WIDE SPAN SHELVING - COOLER	LOZIER	CUSTOM	W 48" x D 24" x H 96"	PRODUCE	5 SHELVES, OPEN BASE, WHITE
1-710	6		FLORAL SIGN	RAMBO	DOUBLE SIDED ESL HOLDER W/ SIGN	W 12" x D 12" x H 60"	SALES FLOOR	
2000 SERIES - SEAFOOD								
2-005	2	6' - 8"	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	W 82" x D 34" x H 34"	SEAFOOD	
2-006	2	7' - 0"	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	W 74" x D 34" x H 34"	SEAFOOD	
2-008	2	8' - 0"	MULTI DECK REFRIGERATED CASE	HILL PHOENIX	O5MH-NRG	W 96" x D 43-3/8" x H 87 5/8"	SEAFOOD	
3000 SERIES - MEAT								
3-004	1	12' - 0"	MULTI DECK REFRIGERATED CASE	HILL PHOENIX	O5MH-NRG	W 144" x D 43-3/8" x H 87 5/8"	MEAT	
3-005	2	6' - 8"	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	W 82" x D 34" x H 34"	MEAT	
3-006	2	7' - 0"	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	W 74" x D 34" x H 34"	MEAT	
3-007	2	12' - 0"	SINGLE DECK REFRIGERATED CASE	HILL PHOENIX	OUM-NRG	W 144" x D 43-1/4" x H 43"	MEAT	
3-012	1	6' - 0"	SINGLE DECK REFRIGERATED CASE	HILL PHOENIX	OUM	W 72" x D 43-1/4" x H 43"	MEAT	
3-141	1		MEAT SAW	HOBART	6614	W 41-1/4" x D 34" x H 68-3/4"	MEAT PREP	
3-142	1		MEAT CHOPPER	BIRO	MINI-32	W 25" x D 39" x H 57.5"	MEAT PREP	
3-143	1		FAT TESTER	HOBART	F101	W 6.5" x D 12.5" x H 17.5"	MEAT PREP	
3-332	1	8' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 96" x D 30" x H 35"	MEAT	WITH BACKSPLASH AND SHELF BELOW
4000 SERIES - BEER + WINE								
4-023	3	12' - 0"	HIGH NARROW CASE WITH DOORS	HILL PHOENIX	VNRBH	W 144" x D 37" x H 90"	BEER + WINE	
a 2 4-101	4	5' - 10 1/2"	KEGERATOR	MICRO MATIC	MDD68	W 69-1/2" x D 30" x H 49-1/4"	BEER VENUE	
4-508	13	4' - 0"	SHELVING GONDOLA	LOZIER	CUSTOM	W 48" x D 22" x H 84"	BEER + WINE	STANDARD
5000 SERIES - BEER								
a,b 2 5-138	1	4' - 0"	UC DISHWASHER	CHAMPION	UH330B	W 24" x D 26-3/4" x H 33-3/4"	BEER VENUE	
5-327	1	4' - 0"	DISHTABLE WITH SINK	ADVANCE TABCO	DTU-U60-48L	W 48" x D 30" x H 39"	BEER VENUE	
5000 SERIES - FRESH EATS								
5-005	2	6' - 8"	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	W 82" x D 34" x H 34"	SALES	
5-006	2	7' - 0"	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	W 74" x D 34" x H 34"	SALES	
5-014	15	8' - 0"	LOW REFRIGERATED CASE	ARNEG	SANTIAGO - 105/150-1C	W 96" x D 42" x H 60 1/2"	FRESH EATS	
5-024	1	10' - 6 1/2"	OLIVE BAR	HILL PHOENIX	SBI-410SC	W 48-1/4" x D 126-1/2" x H 33-1/2"	FRESH EATS	
5-100	1	8' - 0"	COLD FLIP TOP TABLE	CONTINENTAL	CPA93	W 93" x D 36 7/8" x H 39 1/2"	KITCHEN	
a 1 5-103	1		HOSE REEL	THE SHOPPER INC.	HOSE REEL 50'	W 7 3/4" x D 10" x H 8 1/2"	SCULLERY	
5-105	2		ROTISSERIE	ALTO SHAAM	AR-7E	W 38 1/16" x D 32" x H 36"	KITCHEN	
5-106	1		BLAST CHILLER	ALTO SHAAM	QC2-20	W 57" x D 36" x H 42"	KITCHEN	
5-108	2		HOT HOLD CABINET	ALTO SHAAM	1000-UP	W 22 5/8" x D 32 3/4" x H 76"	KITCHEN	
5-111	2		DOUBLE STACK STEAMER	ACCUTEMP	N61201E DBL	W 26 1/2" x D 29" x H 71 1/4"	KITCHEN	
a,b 2 5-115	1		HIGH SPEED OVEN	MERRYCHEF	EIKON E2S	W 14" x D 23.4" x H 24.4"	KITCHEN	
5-119	1		PIZZA OVEN	BAKER'S PRIDE	EP-3-8-3836	W 55" x D 43" x H 66"	KITCHEN	
5-124	1		DOUBLE STACK CONVECTION OVEN	BLODGETT	ZEPHAIRE-100-G-ES	W 38-1/4" x D 36-7/8" x H 70-5/8"	KITCHEN	WITH STAND
5-127	1		DISHWASHER	CMA	EST-44TALL	W 51" x D 22" x H 78 1/2"	KITCHEN	LEFT TO RIGHT PATH OF TRAVEL
a 1 5-132	1		GAS GRIDDLE	VULCAN	936RX	W 36" x D 31-1/2" x H 11-1/8"	KITCHEN	WITH STAND
5-133	1		GAS CHAR-BROILER	VULCAN	VACB36	W 36" x D 31" x H 12"	KITCHEN	ON STAND
5-146	1		SODA MACHINE	LANCER	CED 1500	W 19 3/16" x D 24" x H 25 3/8"	KITCHEN	
5-147	1		ICE MACHINE	HOSHIZAKI	DCM-500BAH	W 26" x D 22 1/2" x H 40"	KITCHEN	
5-148	1	6' - 0"	COLD SANDWICH TOP TABLE	TRAULSEN	UST7230	W 72" x D 34 1/2" x H 34 3/8"	KITCHEN	WITH DOORS
5-149	2	2' - 6"	MANUAL SAFETY SLICER	BIZERBA	GSP H SERIES	W 31.74" x D 35.40" x H 23.46"	KITCHEN	
5-205	1		COLD BAR WITH DRESSING PUMPS	AMTEKCO	CUSTOM	W 144" x D 66" x H 56"	FRESH EATS	
5-206	1		COLD BAR WITH SODA & ICE	AMTEKCO	CUSTOM	W 144" x D 71" x H 51-1/2"	FRESH EATS	
5-207	1	12' - 0"	HOT FOOD BAR	AMTEKCO	CUSTOM	W 144" x D 69 1/2" x H 51-1/2""	FRESH EATS	
5-208	1	12' - 0"	PIZZA AND SOUP BAR	AMTEKCO	CUSTOM AA0213-27	W 144" x D 69 1/2" x H 56"	FRESH EATS	
a 2 5-250	1	5' - 10 1/2"	HOT CASE	PIPER REFLECTIONS	HOT TOP	W 50" x D 30" x H 36"	BEER VENUE	
5-300	1		2 COMP SINK W LR DRAINBOARDS	AMTEKCO	C-2-1824-24D	W 80" x D 29-3/4" x H 45"	KITCHEN	
5-301	3		HAND SINK	AMTEKCO	DH-19D	W 17" x D 15-1/4" x H 13-1/4"	SCULLERY	
5-302	1		3 COMP SINK W LR DRAINBOARDS	AMTEKCO	C-3-1824-24D	W 100" x D 29-3/4" x H 41"	SCULLERY	
5-306	2	4' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 48" x D 30" x H 30"	KITCHEN	WITH SHELF BELOW
5-308	1	8' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 96" x D 30" x H 35"	KITCHEN	WITH SHELF BELOW
5-308	2		WALL SHELF	AMTEKCO	1236	12"D X 36"W	SCULLERY	
5-310	1	4' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 48" x D 30" x H 30"	KITCHEN	WITH BACKSPLASH AND SHELF BELOW
5-311	1	6' - 0"	STAINLESS STEEL TABLE WITH DRAIN	AMTEKCO	CUSTOM	W 72" x D 30" x H 35"	SCULLERY	WITH DRAIN AND BACKSPLASH
5-312	1	6' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 72" x D 30" x H 37"	SCULLERY	WITH BACKSPLASH
a 1 5-313	1	8' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 96" x D 30" x H 35"	KITCHEN	WITH SHELF ABOVE
5-314	1	8' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 96" x D 30" x H 35"	KITCHEN	WITH SHELF ABOVE AND SHELF BELOW
5-512	18	4' - 0"	WIRE SHELVING	CALIFORNIA COOKING INC	METRO		SCULLERY/KITCHEN /COOLER	EPOXY
a 1 5-524	11	4' - 0"	WIDE SPAN SHELVING - COOLER	LOZIER	CUSTOM	W 48" x D 24" x H 96"	SCULLERY/KITCHEN /COOLER	5 SHELVES, OPEN BASE, WHITE
5-TBD	1	2' - 6"	FLAT TOP REFRIGERATED BASE	DELFIELD	ST4460N FLAT TOP	W 60.13" x D 31.50" x H 36.00"	KITCHEN	
TBD	2	6' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 72" x D 30" x H 35"	KITCHEN	WITH BACKSPLASH AND SHELF BELOW
6000 SERIES - BAKERY								
6-145	1		BREAD SLICER	JAC	450	W 17 1/4" x D 12 1/2" x H 5 1/4"	SALES	
6-403	2	3' - 6"	COOKIES	R&D	45483-03	W 42" x D 24" x H 66"	BAKERY	SINGLE SIDED
6-404	2	6' - 0"	NESTING TABLES	R&D	CUSTOM	W 36" x D 48" x H 34"	BAKERY	
6-520	6		4 WAY MERCHANDISER	LOZIER	CUSTOM	W 37" x D 37" x H 54"	BAKERY	
8000 SERIES - PANTRY								
8-005	2	6' - 8"	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	W 82" x D 34" x H 34"	SALES	
8-006	2	7' - 0"	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	W 74" x D 34" x H 34"	SALES	
8-009	8	7' - 0"	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	TORONTO HEAD	W 77-1/8" x D 40-5/8" x H 36-7/8"	FROZEN	
8-010	4	12' - 0"	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	TORONTO SIDE	W 148" x D 77" x H 36-7/8"	FROZEN	
8-011	1	8' - 0"	HIGH NARROW MULTI DECK CASE	HILL PHOENIX	ONSDMH	W 96" x D 36" x H 87 5/8"	PANTRY	
8-016	30		GLASS DOORS	ANTHONY	VISTA ELITE	N/A	DAIRY COOLER	
8-017	30	2' - 0"	GRAVITY FLOW SHELVING	ANTHONY	GFS	W 24" x D 36" x H 72"	DAIRY COOLER	
8-023	1	12' - 0"	HIGH NARROW CASE WITH DOORS	HILL PHOENIX	VNRBH	W 144" x D 37" x H 90"	PANTRY	
a 1 8-025 12 a 2	12	6' - 0"	CHEESE CASE	STRUCTURAL CONCEPTS	MI36R	W 74-1/8" x D 36-3/8" x H 37"	DAIRY	CONFIRM FINAL LOCATION OF CHEESE BINS WITH 365 PRIOR TO ELECTRICAL INSTALLATION
8-029	1	4' - 0"	WHOLE BODY CASE	ARNEG	SWAN H180 SC	W 38-1/2" x D 27" x H 73"	SALES FLOOR	
8-037	3	12' - 0"	REFRIGERATED WALL SIDE CASE WITH DOORS	ARNEG	ARKA	W 147-5/8" x D 44" x H 36-7/8"	FROZEN	
b 2 8-041	1	8' - 0"	LOW REFRIGERATED CASE	ARNEG	SANTIAGO - 105/150-1C	W 96" x D 42" x H 60 1/2"	BEER VENUE	
8-042	1		MOCHI BIN	AHT	IBIZA-145	W 72 7/8" x D 33 11/16" x H 32 13/16"	FROZEN	
8-123	1	8' - 0"	BULK WATER MACHINE	Aqua 9+	#AQ9-2000	52"L X 34"W X 78"H	SALES FLOOR	
8-124	2		NUT BUTTER GRINDER	RHINO	NG2004	W 9" x D 1' 7-1/2" x H 2' 1-3/4"	PANTRY	
8-126	1		COFFEE GRINDER	BUNN	G3	W 7 1/2" x D 16" x H 27 1/4"	PANTRY	
8-400	2	4' - 0"	SINGLE BULK ISLAND	K&J WOODWORKS	CUSTOM	W 48" x D 35" x H 50 1/4"	PANTRY	WITH BAGGING STATION
8-400	6	4' - 0"	SINGLE BULK ISLAND	K&J WOODWORKS	CUSTOM	W 48" x D 35" x H 50 1/4"	PANTRY	WITHOUT BAGGING STATION
8-401	1	3' - 0"	CANDY	ABC FABRICATION	CUSTOM	W 36" x D 36" x H 31 1/2"	PANTRY	
8-402	1		WINE KIOSK	HILL PHOENIX	CWC-2D	W 24" x D 24" x H 33 1/2"	BEER + WINE	
8-501	16	3' - 0"	DUNNAGE RACK	MASONWAYS	DUN 2436	W 36" x D 24" x H 12"	DAIRY COOLER	
8-507	3		PALLET DROP	-	-	W 40" x D 48" x H 4 1/2"	DAIRY COOLER/PANTRY	FULL SIZE
8-512 16	16	4' - 0"	WIRE SHELVING	CALIFORNIA COOKING INC	METRO		BOH/FREEZER	EPOXY
c,d 2 8-514 36	36	4' - 0"	WIDE SPAN SHELVING	LOZIER	CUSTOM	W 48" x D 24" x H 94"	BOH/FREEZER/DAIRY COOLER	4 SHELVES, FULL HEIGHT
8-519	52	4' - 0"	SHELVING GONDOLA	LOZIER	CUSTOM	W 48" x D 36" x H 72"	PANTRY	DEEP
8-520	51	4' - 0"	SHELVING GONDOLA	LOZIER	CUSTOM	W 48" x D 22" x H 72"	PANTRY	STANDARD
8-521	2	3' - 6"	BAKERY CASES	R&D	45483-01	W 42" x D 48" x H 66"	PANTRY	DOUBLE SIDED
8-522	1		NUT GRINDER STATION	LOZIER	CUSTOM	W 26" x D 22" x H 84"	PANTRY	
8-523	2	6' - 0"	SHELVING GONDOLA ENDCAP	LOZIER	CUSTOM	W 72" x D 16" x H 72"	PANTRY	NO SIGNAGE
8-523	2	6' - 0"	SHELVING GRAB N GO ENDCAP	LOZIER	CUSTOM	W 72" x D 19" x H 72"	PANTRY	NO SIGNAGE
8-524	9	4' - 0"	WIDE SPAN SHELVING - COOLER	LOZIER	CUSTOM	W 48" x D 24" x H 96"	BOH/FREEZER/DAIRY COOLER	
8-524	4	4' - 0"	WIDE SPAN SHELVING - COOLER	LOZIER	CUSTOM	W 48" x D 24" x H 96"	BOH/FREEZER/DAIRY COOLER	5 SHELVES, OPEN BASE, WHITE

EQUIPMENT SCHEDULE

ITEM NO.	QTY.	LENGTH	DESCRIPTION	MANUFACTURER	MODEL	DIMENSION	LOCATION	COMMENTS
8-525	4	4' - 0"	SHELVING GONDOLA	LOZIER	CUSTOM	W 48" x D 22" x H 84"	PANTRY	STANDARD
8-527	8	5' - 0"	SHELVING GONDOLA ENDCAP	LOZIER	CUSTOM	W 60" x D 16" x H 72"	PANTRY	WITH LEFT SIGNAGE
8-530	13	4' - 0"	SHELVING GONDOLA	LOZIER	CUSTOM	W 48" x D 36" x H 84"	PANTRY	DEEP
16000 SERIES - GENERAL STORE								
16-103	1		HOSE REEL	THE SHOPPER INC.	HOSE REEL 50'	W 7 3/4" x D 10" x H 8 1/2"	RECEIVING	
16-113	1		MICROWAVE	PANASONIC	NE-1064	W 20" x D 14" x H 12"	BREAKROOM	
16-115	1		REFRIGERATOR	FRIGIDAIRE	FFHS2322MS	W 33" x D 32" x H 69 7/8"	BREAKROOM	
16-310	1	4' - 0"	STAINLESS STEEL TABLE	AMTEKCO	CUSTOM	W 48" x D 30" x H 35"	BREAKROOM	WITH BACKSPLASH AND SHELF BELOW
16-312	1		HAND SINK	AMTEKCO	DH-30	W 24 3/4" x D 21 7/8" x H 18"	BREAKROOM	
16-500	1	6' - 1"	ICE MERCHANDISER	LEER	60 SLANT			
16-500	7	5' - 3"	MARC CART	NEW AGE INDUSTRIAL	CUSTOM	W 63" x D 27" x H 71"		
16-512	2	4' - 0"	WIRE SHELVING	CALIFORNIA COOKING INC	METRO		RECEIVING	EPOXY
16-601	3		TALL FILE CABINET	HON	H584	W 36" x D 19 1/4" x H 53 1/4"	OFFICES	
16-602	9		FILE CABINET	HON	H15923R	W 15" x D 23" x H 22"	OFFICES	
16-604	4		TABLE	EMU	JOLLY #855	W 28" x D 28" x H 29 1/2"	CAFE	INTERIOR + EXTERIOR
16-605-A	30		32" CAFE TABLE	EMUAMERICAS	JOLLY #855	32" x 32" x 29 1/2"H	CAFE	
16-607	16		STACKING CHAIR	HON	H4031	W 21" x D 21 1/2" x H 31"	BOH	
16-608	1		PRINTER TABLE	MOORECO	27666	W 27" x D 25" x H 35 1/2"	LEADERS	
16-610	5		TABLE	HON	HMVR-3030-FX-N-B9-C-G	30" X 30" SQUARE	MEETING ROOM/LEADERS	
16-611	1		TABLE	HON	HMVR-4040-FX-N-B9-C-G	40" X 40" SQUARE	MEETING ROOM/LEADERS	
16-612	4		ADJUSTABLE STOOL	INTERION	ERGONOMIC STOOL	Ø 24" x H 48 1/2"	RECEIVING	
16-613	10		DESK	HON	HMVR-2448-FX-G-B9-C-G	2'-0" x 4'-0"	LEADERS	
16-615	10		ROLLING CHAIR	HON	HVL511	W 26" x D 26" x H 40 1/2"	OFFICES	
16-617	12		TRASH/RECYCLING/COMPOST BINS	WITT INDUSTRIES	15RT-1H	Ø 15" x H 32"	SALES FLOOR	2 SETS OF 3 BINS - COLORS: BLACK, BLUE, GREEN
16-620	2		EXTERIOR TRASH/RECYCLING/COMPOST BINS	CLEANRIVER	TIM36-3	23.75"W x 18"D x 37.5"/48.75"H	EXTERIOR	GRAY
16-621	1		FLIP 8 HOOK RACK	UMBRA	318858-660	W 33 1/4" x D 1 1/2" x H 2 3/4"	BREAKROOM	
16-623	11		STOOLS	SMITHHANES/SCHWUNGHOME	DOT	21" X 21-1/2" X 31" H	CAFE	
16-627	88		CAFE CHAIRS	SMITHHANES/SCHWUNGHOME	DOT	-	INDOOR SEATING	
16-627	16		CHAIRS	SCHWUNG	DOT	W 16 1/2" x D 20 1/2" x H 32"	SEATING	
16-706	1		BALER	PTR	2300HD	W 78" x D 41" x H 152"	RECEIVING	
16-708	1		ELECTRIC POWER JACK	CROWN	WP 3045	W 27 7/8" x D 70" x H 47 1/2"	RECEIVING	
16-709	1		MANUAL PALLET JACK	CROWN	PTH 50	W 27" x D 62" x H 47"	RECEIVING	
16-711	5		BUG ZAPPER	GILBERT	2002 GT	W 24 3/4" x D 19 1/2" x H 11 1/2"	BOH	
16-712	1		GARMENT BIN	ARAMARK	CE-0096	W 16 1/2" x D 16" x H 77 1/2"	BOH	
16-713	1		FLOOR SCRUBBER	TENNANT	5400	W 33" x D 53" x H 40"	BOH	
16-714	1		GARMENT RACK	ARAMARK	CE-0169	W 36" x D 18" x H 48"	BOH	
16-715	3		LOCKERS	INFINITY	16128KD	W 36" x D 12" x H 60"	BOH	
16-716	1		ELECTRIC SHOPPING CART	AMIGO	VALUESHOPPER34	W 24-1/4" x L 54" x H 34-1/2"	FRONT END	
16-717	1		COMPACTOR	MARATHON	RJ-250 SC	W 101 1/4" x D 245" x H 104"	EXTERIOR	30 YD
17000 SERIES - IT								
17-801	9		REGISTER AND HUB HARDWARE PACKAGE	NCR	N/A	N/A	SALES	
17-803	3		SCALE	BIZERBA	KH100	W 15" x D 17" x H 7"	KITCHEN	
17-804	5		WEIGH STATION	BIZERBA	MC 500	W 15" x D 22" x H 48"	SALES	
17-805	3		PRINTER	HP	LASERJET PRO	W 16 1/4" x D 25 1/2" x H 13 1/2"	BOH	
17-806	3		STANDARD PRINTER	HP	LASERJET PRO M402dn	W 16 1/4" x D 25 1/2" x H 13 1/2"	COUNTING & EXPRESS CHECKOUT	
17-808	2		DELECTABLE TABLET KIOSKS	LILITAB	FLOOR PRO	W 12 1/2" x D 9""	BEER + WINE	COUNTER MOUNTED
17-810	27		DIGITAL INFO SCREEN	SAMSUNG				
17-811	4		DVO ORDERING GUN	ZEBRA	WORKABOUT PRO4	N/A	RECEIVING	
17-812	1		TIME CLOCK	KRONOS	4500	N/A	BREAKROOM	
17-813	17		DESKTOP	DELL	OPTIPLEX 9030	N/A	BOH	
17-826	1		WRAPPER AND LABELER	BIZERBA	CUSTOM	W 52" x D 26" x H 53"	MEAT PREP	

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET DECATUR, GA

1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager:
YC
Checked By:

Drawn by:
ARL
Document date:
01/29/18
Template date:

Project No.
62911019

Professional Seal

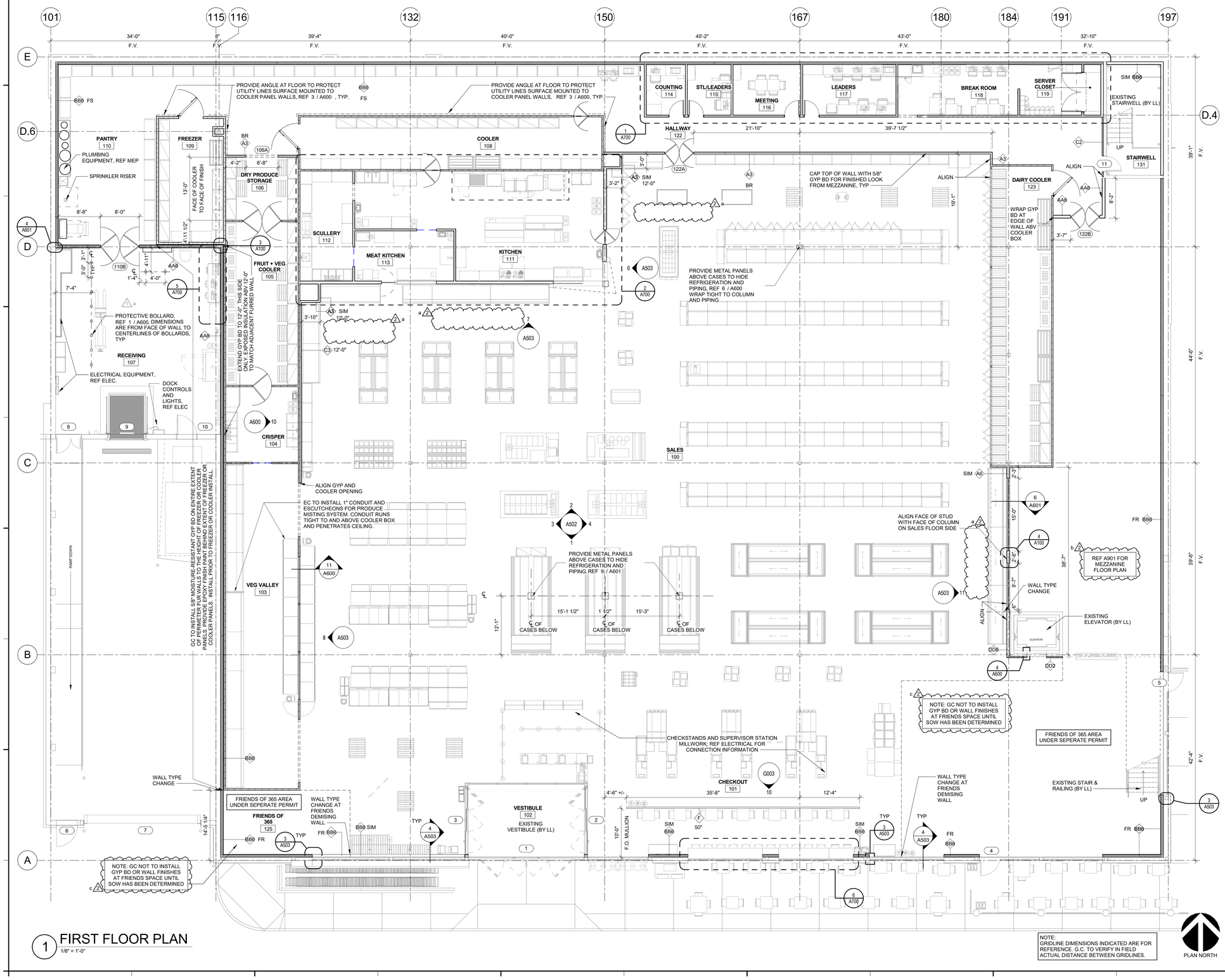
Sheet Title
EQUIPMENT SCHEDULE

Sheet No.
A0.2

BRR Original printed on recycled paper

SHEET NOTES

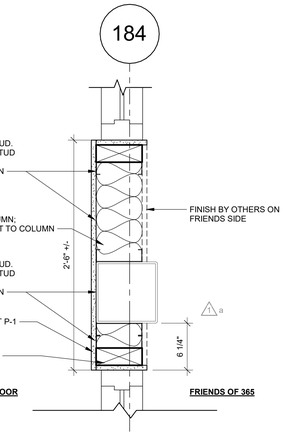
1. REFER TO FIXTURE PLAN & EQUIPMENT SCHEDULE SHEETS FOR EQUIPMENT AND FIXTURE INFORMATION.
2. DIMENSIONS TAKEN FROM FINISHED FACE OF WALL.
3. VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT IF DIMENSIONS ARE NOT ACCURATE
4. WHERE INSTALLING FURRING AND GYPSUM BOARD ON MASONRY WALLS, INSTALL CONTROL JOINTS IN GYPSUM BOARD AT ALL MASONRY CONTROL JOINTS, AT ALL OTHER GYPSUM BOARD WALLS, INSTALL CONTROL JOINTS AT MAX 30'-0" O.C. AND AT TRANSITIONS BETWEEN HORIZONTAL AND VERTICAL GYPSUM BOARD SHEATHING PLANE, AS WELL AS OPENINGS GREATER THAN 4'-0" IN ANY DIRECTION, REF 7 / G003
5. WHERE TOP TRACKS MEET, REF 4 / G003 FOR TOP TRACK SPLICING DETAIL.
6. FOR FURRED WALL CONDITIONS AT EXISTING DOORS AND STOREFRONT GLAZING, REF 3 / A503 AND REF 4 / A503
7. LOCATE DOORS IN CYP. BD. WALLS 4" AWAY FROM CORNER OF GYP. BD. FACE, UNLESS NOTED OTHERWISE, REF 1B / A503.
8. PROVIDE PROTECTION FOR CONDENSATE PIPES, DRAIN LINES AND FLOOR DRAINS, REF PLUMBING AND REFRIGERATION DRAWINGS AND REF 3 / A600
9. DIMENSIONS AT STOREFRONT OPENINGS ARE FOR REFERENCE. G.C. TO VERIFY IN FIELD ACTUAL SIZE OPENING.
10. COOLER AND FREEZER PANEL PARTITIONS ARE IDENTIFIED WITH A HATCH. REFER TO LEGEND ON A102, FOR SPECIFIC PLACEMENT OF COOLER AND FREEZER PANELS.
11. FINISH ALL END OF WALLS WITH 5/8" GYP BD THAT FACE MEZZANINE ABV COOLER BOXES



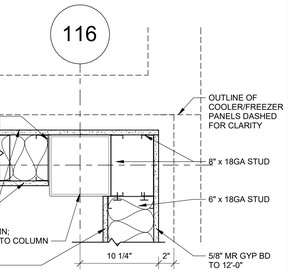
1 FIRST FLOOR PLAN
1/8" = 1'-0"

NOTE:
GRIDLINE DIMENSIONS INDICATED ARE FOR REFERENCE. G.C. TO VERIFY IN FIELD ACTUAL DISTANCE BETWEEN GRIDLINES.

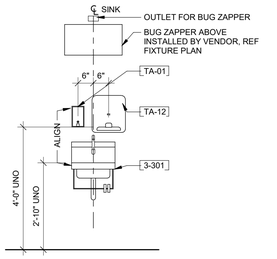
PLAN NORTH



4 FRIENDS COLUMN CONDITION
1 1/2" = 1'-0"



3 COLUMN CONDITION
1 1/2" = 1'-0"



TYPICAL ELEVATION AT HAND SINK
2 1/2" = 1'-0"

REF PREP ROOM ACCESSORIES ON SHEET A300

REF FIXTURE PLAN FOR HAND SINK LOCATIONS

brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager:
YC
Checked By:
Drawn by:
ARL
Document date:
01/29/18
Template date:
Project No.
62911019
Professional Seal

Sheet Title
FIRST FLOOR PLAN

Sheet No.
A100

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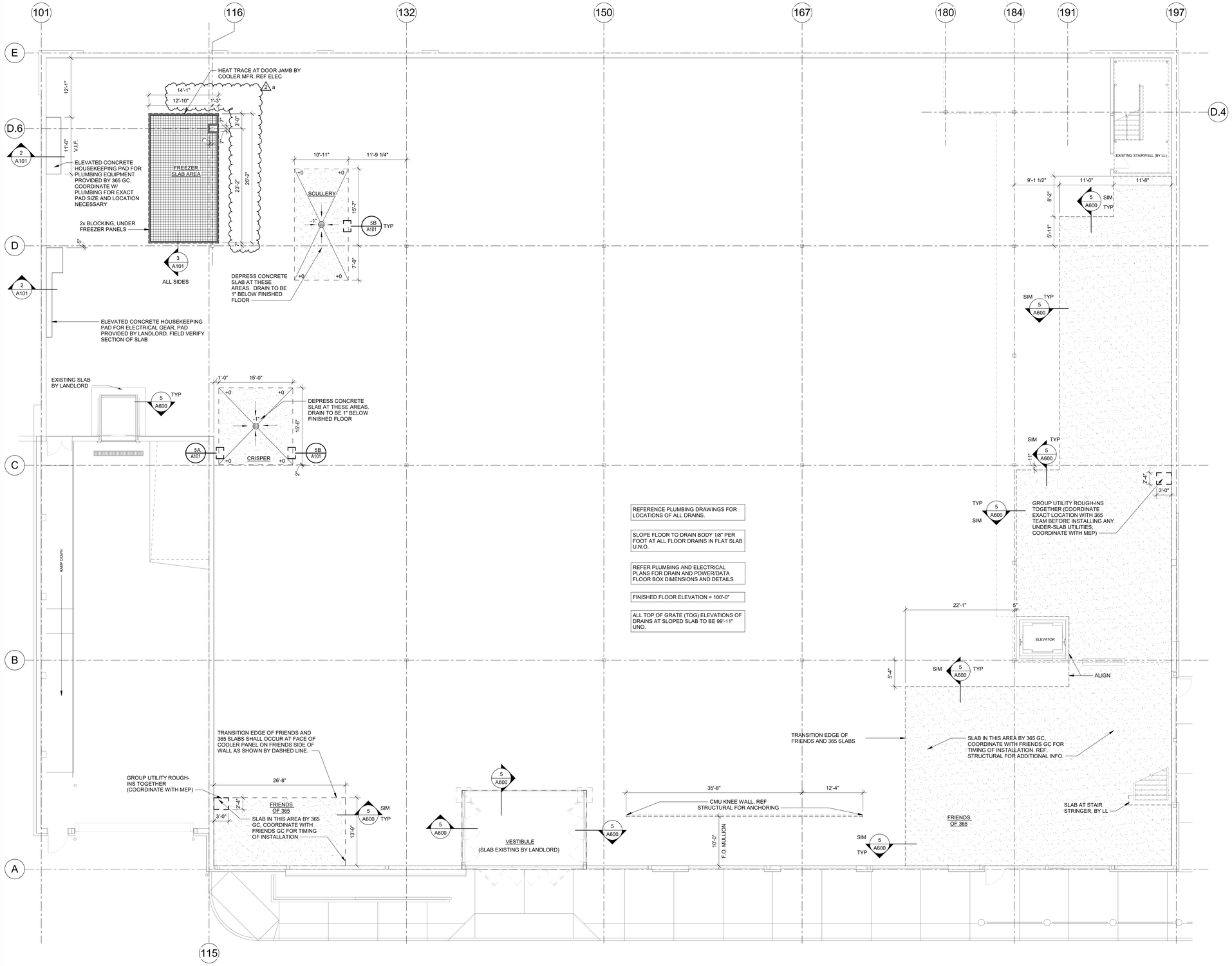


1 FLOOR SLAB PLAN
1/8" = 1'-0"

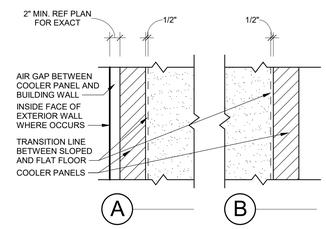
PLAN NORTH

SHEET NOTES

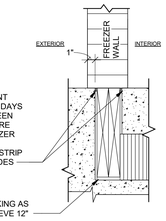
1. REFER TO STRUCTURE FOR ADDITIONAL SLAB INFORMATION.
2. REFER TO MEP-R PLANS FOR ADDITIONAL INFORMATION, UTILITY LOCATIONS AND DETAILS.
3. CONCRETE SLAB TO BE PROTECTED FROM DAMAGE OR STAINING, REF SPECS.
4. DIMENSIONS SHOWN FOR EXTENTS OF INSULATED FREEZER SLAB ARE TO OUTER FACE OF 2x BLOCKING. REF DETAILS ON THIS SHEET.
5. GENERAL CONTRACTOR TO OBTAIN TESTING SERVICE REPORT FROM INSPECTION AGENCY FOR CERTIFICATION OF SUBGRADE COMPACTION PRIOR TO POURING SLAB.
6. INSULATED CONCRETE SLABS AT FREEZERS TO BE A MININUM R-30 RIGID INSULATION.
7. ALL SLABS TO RECEIVE SPECIFIED VAPOR RETARDERS.

LEGEND

INSULATED FREEZER SLAB

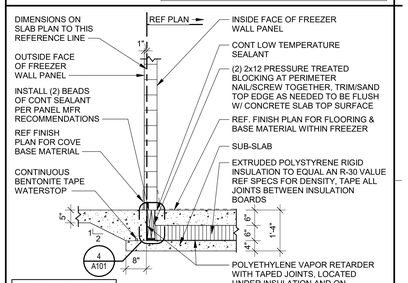


5 SLAB RELATION TO COOLER PANEL
1" = 1'-0"

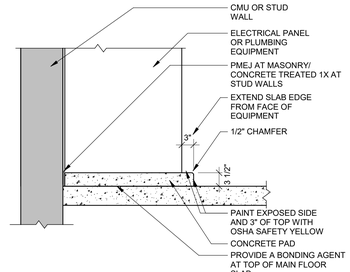


4 PLASTIC TRANSITION STRIP
1 1/2" = 1'-0"

NOTE: DUE TO THE NATURAL CURING OF CONCRETE, GAPS MAY APPEAR BETWEEN THE PLASTIC TRANSITION STRIP AND SLAB. FILL GAPS WITH CONT SEALANT AS SHOWN



3 INSULATED FREEZER SLAB
1/2" = 1'-0"



2 RAISED CONCRETE PAD
3/4" = 1'-0"

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BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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NO.	DATE	DESCRIPTION
2	05/2/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title: SLAB PLAN

Sheet No. A101

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MATERIAL KEY

MARK	DESCRIPTION
HM	HOLLOW METAL
PLASTIC	PLASTIC DOOR PANEL
PVC	CLEAR FLEXIBLE CURTAIN
SS	12 GA STAINLESS STEEL, BRAKE FORMED CHANNEL

SCHEDULE NOTES

1. PROVIDE GREEN LETTERING ON COOLER/FREEZER DOORS TO CALL OUT ROOM NAME. COORDINATE WITH 365.
2. 108C, 109A, 123A TO HAVE AIR CURTAIN STRIPS PROVIDED BY COOLER PANEL VENDOR.

GENERAL NOTES

1. SCHEDULED WIDTH AND HEIGHT ARE CLEAR OPENING SIZE.
2. ALL DOORS ARE FURNISHED BY MANUFACTURER AS PART OF COOLER & FREEZER PANEL PACKAGE.
3. ALL DOUBLE ACTING DOORS TO RECEIVE BUMPERS.
4. ALL FRAMES TO BE WELDED.
5. COOLER PANELS TO BE 12'-0" HIGH AT VEG VALLEY AND DAIRY COOLER ALL OTHER COOLER/FREEZER PANELS TO BE 10'-0" HIGH, UNO.

LEGEND

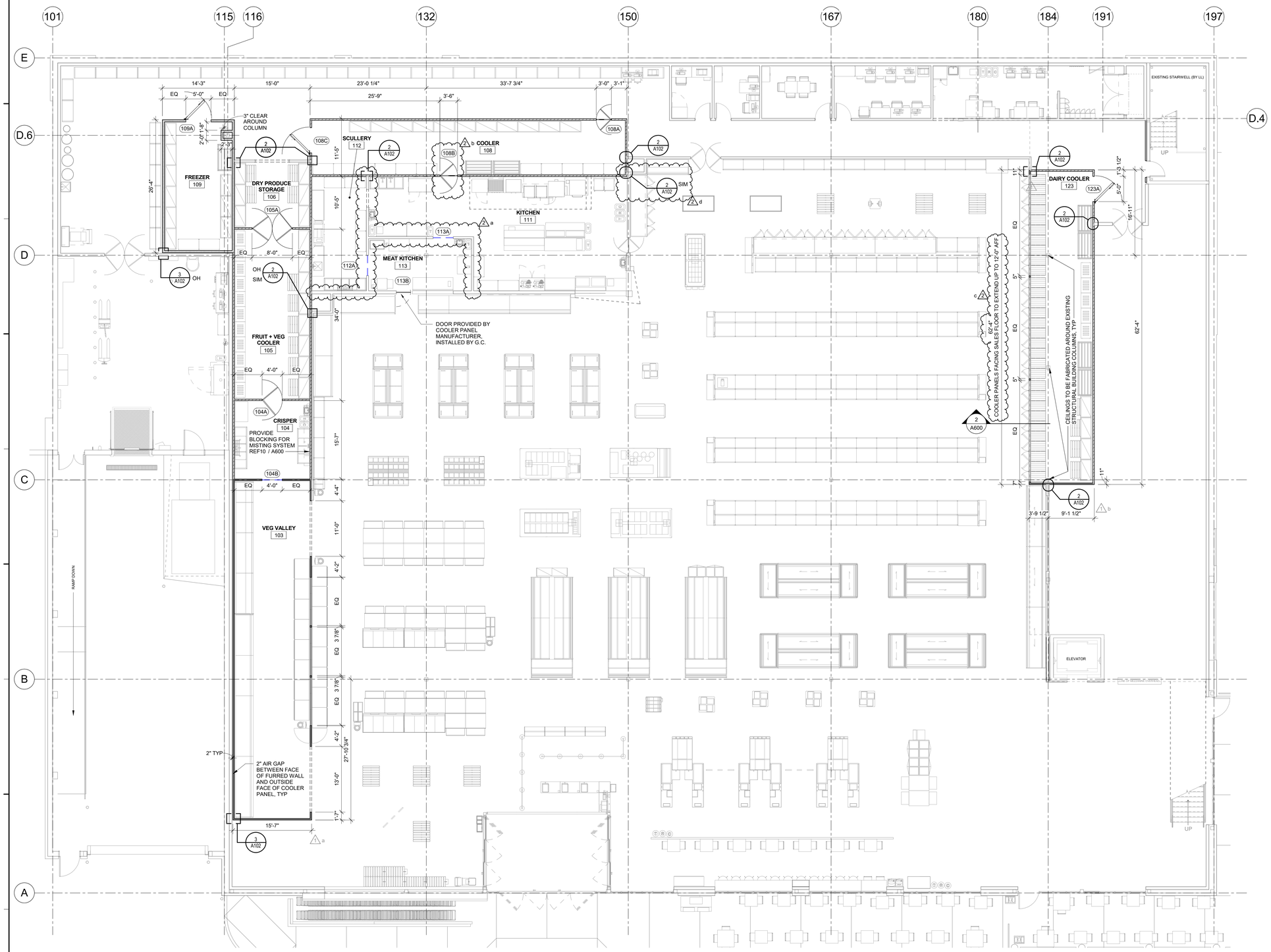
- 3 1/2" — COOLER PANEL - 10'-0" TALL
- 5" — FREEZER PANEL - 10'-0" TALL
- 3 1/2" — COOLER PANEL - 11'-8" TALL

COOLER/FREEZER DOOR SCHEDULE

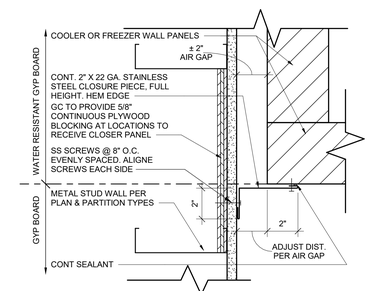
MARK	ROOM NAME	DOOR TYPE	QTY	NOMINAL SIZE WIDTH	NOMINAL SIZE HEIGHT	MATERIAL
104A	CRISPER	DOUBLE ACTING	1	4' - 0"	7' - 0"	PLASTIC
104B	CRISPER	FLEXIBLE CURTAIN	PR	4' - 0"	7' - 0"	PVC
105A	FRUIT + VEG COOLER	DOUBLE ACTING	PR	8' - 0"	8' - 0"	PLASTIC
108A	COOLER	DOUBLE ACTING	1	3' - 6"	7' - 0"	PLASTIC
108B	COOLER	DOUBLE ACTING	1	3' - 6"	7' - 0"	PLASTIC
108C	COOLER	SWING	1	5' - 0"	8' - 0"	S.S.
109A	FREEZER	SWING	1	5' - 0"	8' - 0"	S.S.
112A	SCULLERY	FLEXIBLE CURTAIN	PR	4' - 0"	7' - 0"	PVC
113A	MEAT KITCHEN	FLEXIBLE CURTAIN	PR	4' - 0"	7' - 0"	PVC
113B	MEAT KITCHEN	HALF HEIGHT	1	2' - 10"	3' - 2"	PLASTIC
123A	DAIRY COOLER	SWING	1	5' - 0"	8' - 0"	S.S.

SHEET NOTES

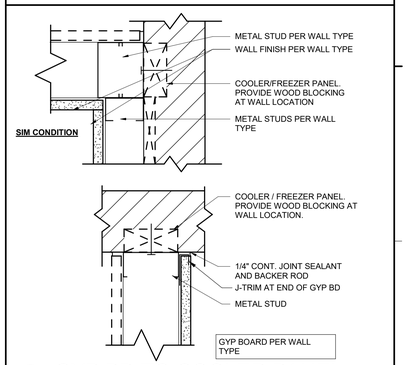
1. REF DOOR SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION OF COOLER/FREEZER DOORS.
2. ALL COOLER PANELS HAVE BEEN DRAWN AT 3 1/2" THICK, EXCEPT AT FREEZER PANELS IN ROOM 109 WHICH ARE 5" THICK. FIELD VERIFY THICKNESS WITH MANUFACTURER.
3. ALL COOLER/FREEZER BOXES TO BE PROVIDED BY 365 AND INSTALLED BY GC.
4. REF REFERIGATION SHEETS FOR EQUIPMENT LOCATIONS AT WALL MOUNTED EQUIPMENT OR ATTACHMENTS.
5. PROVIDE PLYWOOD BACKING AS REQUIRED BEHIND INSIDE FACE OF PANELS. COORDINATE WITH 365 PRIOR TO FABRICATIONS.
6. COORDINATE COLOR OF EXPOSED FACE(S) OF PANELS WITH 365 AND FINISH PLAN PRIOR TO FABRICATION.
7. COOLER & FREEZER DIMENSIONS ARE TO/FROM FACE OF PANEL TO FACE OF PANEL. DOOR OPENINGS ARE MEASURED FROM INSIDE FACE OF COOLER/FREEZER PANEL TO JAMB OF DOOR.
8. PROVIDE 2" MIN GAP BETWEEN COOLER &/OR FREEZER PANELS AND EXTERIOR PARTITIONS.
9. PROVIDE DESIGNATED ZONES FROM 2'-6" TO 6'-0" FOR BLOCKING INSIDE COOLER AND FREEZER PANELS FOR EQUIPMENT MOUNTING, AND AS NOTED.
10. COOLER/FREEZER PANEL WALL HEIGHTS ARE TO BOTTOM OF CEILING UNO. REF A103 FOR CEILING HEIGHTS AND TRANSITIONS



1 COOLER AND FREEZER PLAN
1/8" = 1'-0"



3 CLOSURE PANEL
3" = 1'-0"



2 GYP BD TO COOLER PANEL
3" = 1'-0"

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title: COOLER & FREEZER PLAN

Sheet No. A102

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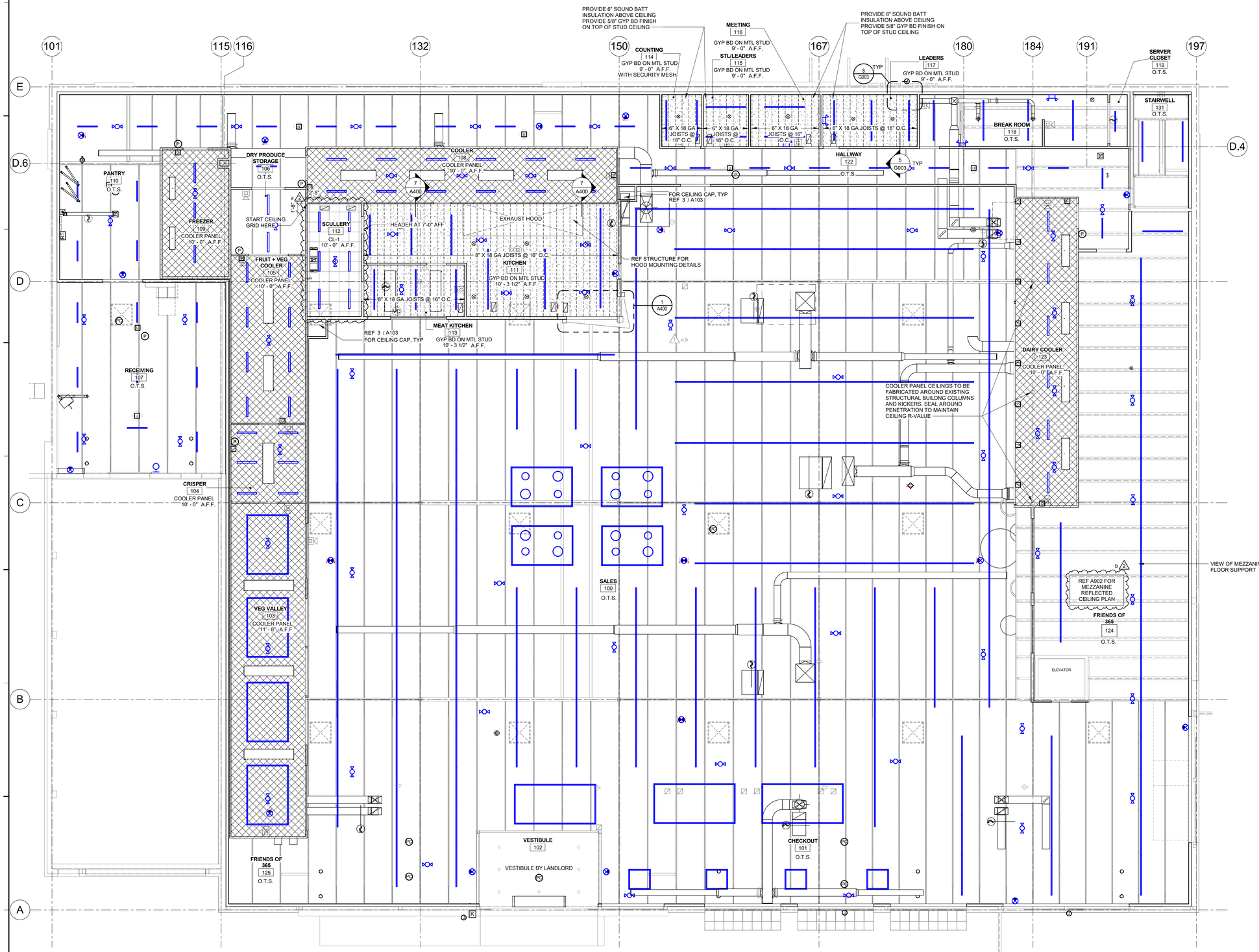


1 REFLECTED CEILING PLAN
1/8" = 1'-0"

REF SHEET A104 FOR DIMENSIONED LIGHTING PLAN. REF ELECTRICAL FOR LIGHTING FIXTURE INFORMATION.

ALL CEILING HEIGHTS PROVIDED ARE TO BOTTOM OF CEILING

O.T.S.= OPEN TO STRUCTURE

SHEET NOTES

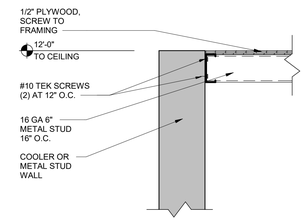
1. PLAN IS SHOWN FOR OVERHEAD COORDINATION ONLY. REFER TO LIGHTING PLAN AND MEP-R SHEETS FOR ADDITIONAL INFORMATION.
2. FOR HEIGHTS OF UTILITIES, REF 2 / A103
3. ALL NEW EXPOSED DUCT WORK AND CONDUIT TO REMAIN UN-PAINTED U.N.O.
4. REF MECHANICAL FOR ALL HOOD LOCATIONS. HOODS SHOWN ARE FOR REFERENCE ONLY.
5. REGARDING LOCATIONS OF FIRE STROBES, HORNS, PULL STATIONS, ETC. - REFER TO ELECTRICAL AND FIRE PROTECTION DRAWINGS.
6. REF A501 FOR MATERIAL FINISH INFORMATION.

FIRE PROTECTION LEGEND

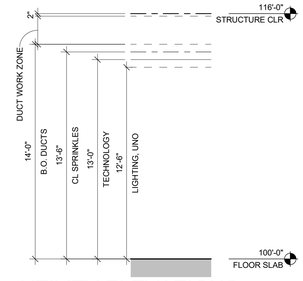
- CEILING MOUNTED VISIBLE NOTIFICATION, REF FIRE PROTECTION
- CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION, REF FIRE PROTECTION
- WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION, REF FIRE PROTECTION
- BELL, REF FIRE PROTECTION

LEGEND

- GYPSUM BOARD CEILING
- HOOD, WHERE INDICATED ON PLAN. REF MECH
- COOLER/FREEZER PANEL
- LIGHT FIXTURES, REF ELECTRICAL
- EXIT SIGN, REF ELECTRICAL
- EMERGENCY BATTERY PACK LIGHT, REF ELECTRICAL
- EXISTING



3 CEILING CAP
1 1/2" = 1'-0"



2 UTILITY ELEVATIONS
1/4" = 1'-0"

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BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044
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Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

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Template date:
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Sheet Title
FIRST FLOOR REFLECTED CEILING PLAN

Sheet No. A103

SHEET NOTES

1. REF ELECTRICAL FOR ADDITIONAL LIGHTING INFORMATION.
2. FOR WALL MOUNTED EXIT SIGNS ONLY - CENTER ABOVE ADJACENT DOOR(S) OR OPENINGS, U.N.O. MOUNT BOTTOM OF EXIT SIGN 2" ABOVE T.O. DOOR FRAME, MULLION, OR OPENING.
3. CEILING FINISHES NOT SHOWN FOR CLARITY. REFER TO A103 FOR CEILING TYPES.
4. SUPPORT SUSPENDED LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY BY WIRES TO THE STRUCTURE ABOVE. REF MEP
5. ALL DIMENSIONS OF LIGHT FIXTURES ARE TO CENTER OF FIXTURES, UNO
6. CENTER LIGHT FIXTURES BETWEEN FIXTURES AT THE FLOOR OR WITHIN ROOMS, U.N.O.

LEGEND

- LIGHT FIXTURES, REF ELECTRICAL
- UPLIGHTING FIXTURES SHOWN DASHED, MOUNT TO TOP OF CEILING , TYP
- EXIT SIGN, REF ELECTRICAL
- EMERGENCY BATTERY PACK LIGHT, REF ELECTRICAL

PANTRY 110 · DRY PRODUCE STORAGE 106 · FREEZER 109 · COOLER 108 · EXHAUST HOOD · SCULLER 112 · KITCHEN 111 · MEAT KITCHEN 113 · UPLIGHTING FIXTURES SHOWN DASHED, MOUNT ABOVE CEILING, TYP · RECEIVING 107 · FRUIT + VEG COOLER 105 · CRISPER 104 · VEG VALLEY 103 · FRIENDS OF 365 125 · VESTIBULE 102 · SALES 100 · CHECKOUT 101 · FRIENDS OF 365 124 · REF A902 FOR MEZZANINE LIGHTING PLAN · ELEVATOR · HALLWAY 122 · COUNTING 114 · STL/LEADERS 115 · MEETING 116 · LEADERS 117 · BREAK ROOM 118 · SERVER CLOSET 119 · STAIRWELL 131 · DAIRY COOLER 123

1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"

PLAN NORTH

5/21/2018 5:09:45 PM

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BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Drawn by: ARL
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Template date:

Project No. 62911019

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Sheet Title: FIRST FLOOR LIGHTING PLAN

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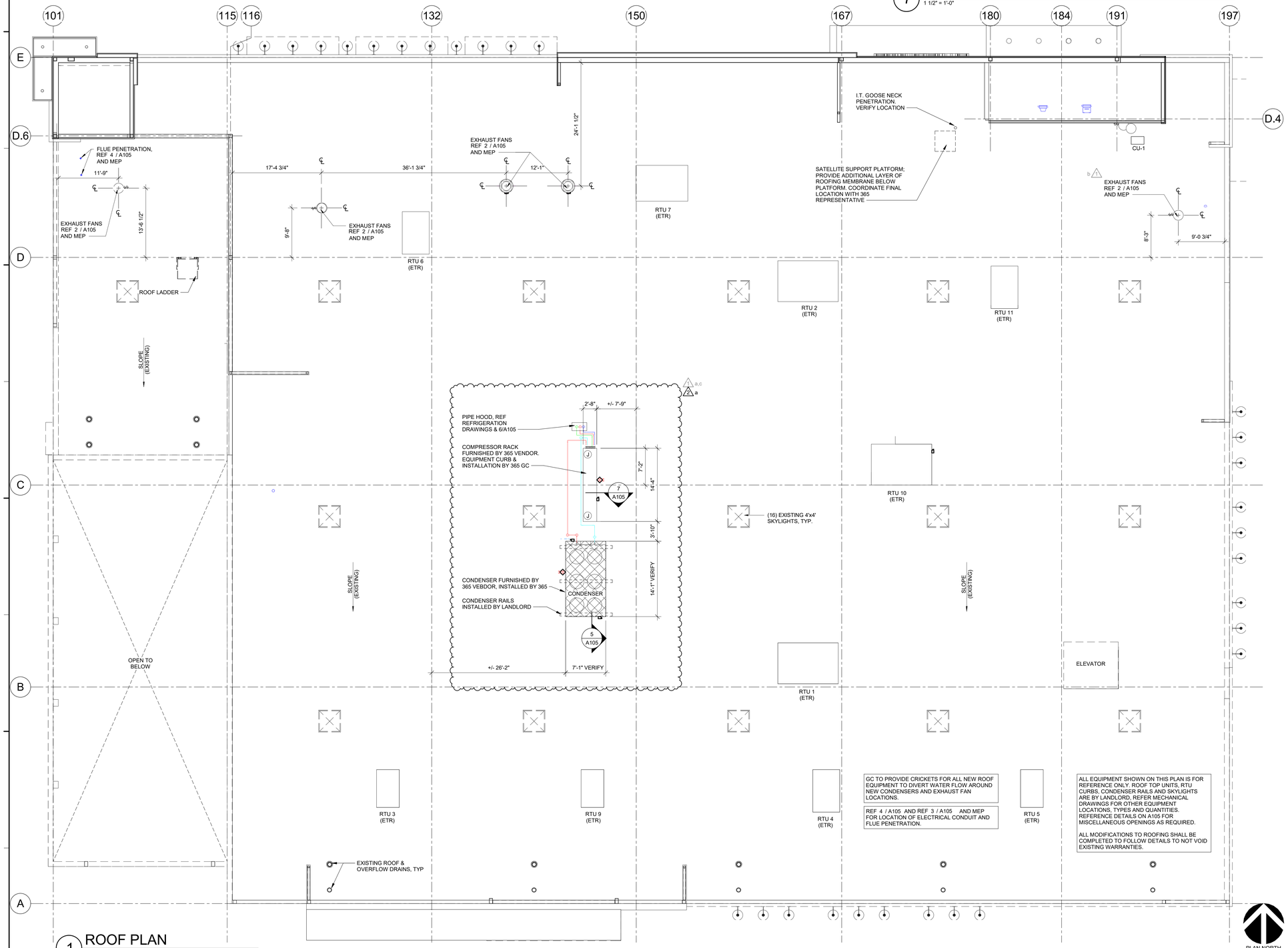
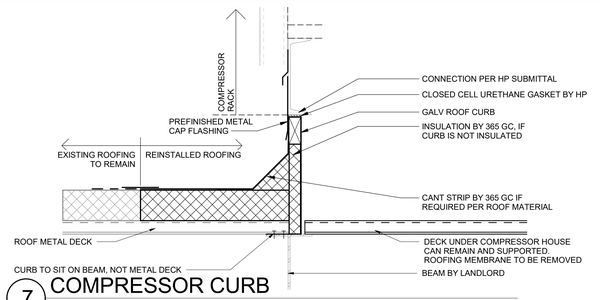


1 ROOF PLAN
1/8" = 1'-0"



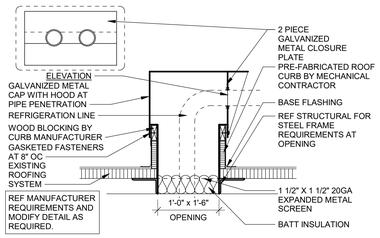
7 COMPRESSOR CURB
1 1/2" = 1'-0"

SHEET NOTES

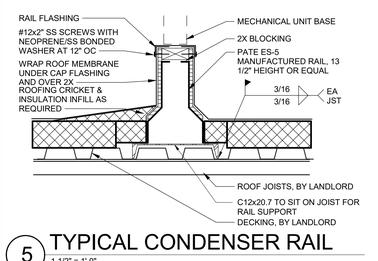
1. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION ABOUT VENTS AND FLUES.
2. ALL CONDITIONS MUST BE FIELD VERIFIED, CONTRACTOR TO NOTIFY 365 AND ARCHITECT OF DISCREPANCIES.
3. ALL ROOF WORK TO BE COORDINATED BETWEEN LL AND 365 PROJECT MANAGER.
4. ALL MODIFICATIONS TO THE ROOFING SHALL MAINTAIN ORIGINAL ROOF WARRANTIES.
5. REFER TO MECHANICAL, ELECTRIC, PLUMBING, AND REFRIGERATION DRAWINGS FOR ADDITIONAL PENETRATIONS NOT SHOWN ON PLAN.
6. REF DETAILS ON THIS SHEET FOR MISCELLANEOUS OPENINGS.
7. G.C. RESPONSIBLE TO PROVIDE ROOF PENETRATIONS AND EXHAUST FAN CURBS, PER MEP SHEETS. COORDINATE WITH LANDLORD AND 365 PROJECT MANAGER.
8. G.C. RESPONSIBLE TO PROTECT ROOF DURING ALL ROOF WORK.
9. G.C. RESPONSIBLE FOR ROOF CLEANUP AFTER ROOF WORK IS COMPLETE.
10. RTU SCREENING TO BE PROVIDED BY LANDLORD, AS REQUIRED.

LEGEND

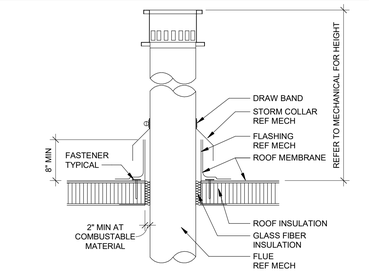
- EXHAUST FAN, REF MECH
- SKYLIGHT PER LANDLORD
- CONDENSING UNIT, REF REFRIGATION
- RTU PER LANDLORD REF MECH



6 REFRIG. LINE PENETRATION
1" = 1'-0"

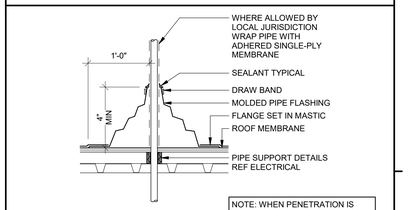


5 TYPICAL CONDENSER RAIL
1 1/2" = 1'-0"



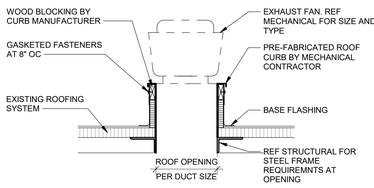
4 FLUE PENETRATION
1" = 1'-0"

PROVIDE ROOF PENETRATION IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS



3 PENETRATION
1" = 1'-0"

NOTE: WHEN PENETRATION IS LARGER THEN 6" REF ROOFING MANUFACTURERS SPECIFICATIONS



2 EXHAUST FAN DETAIL
1" = 1'-0"

REF MANUFACTURER REQUIREMENTS AND MODIFY DETAIL AS REQUIRED.

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BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

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Checked By:
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Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
ROOF PLAN

Sheet No.
A105

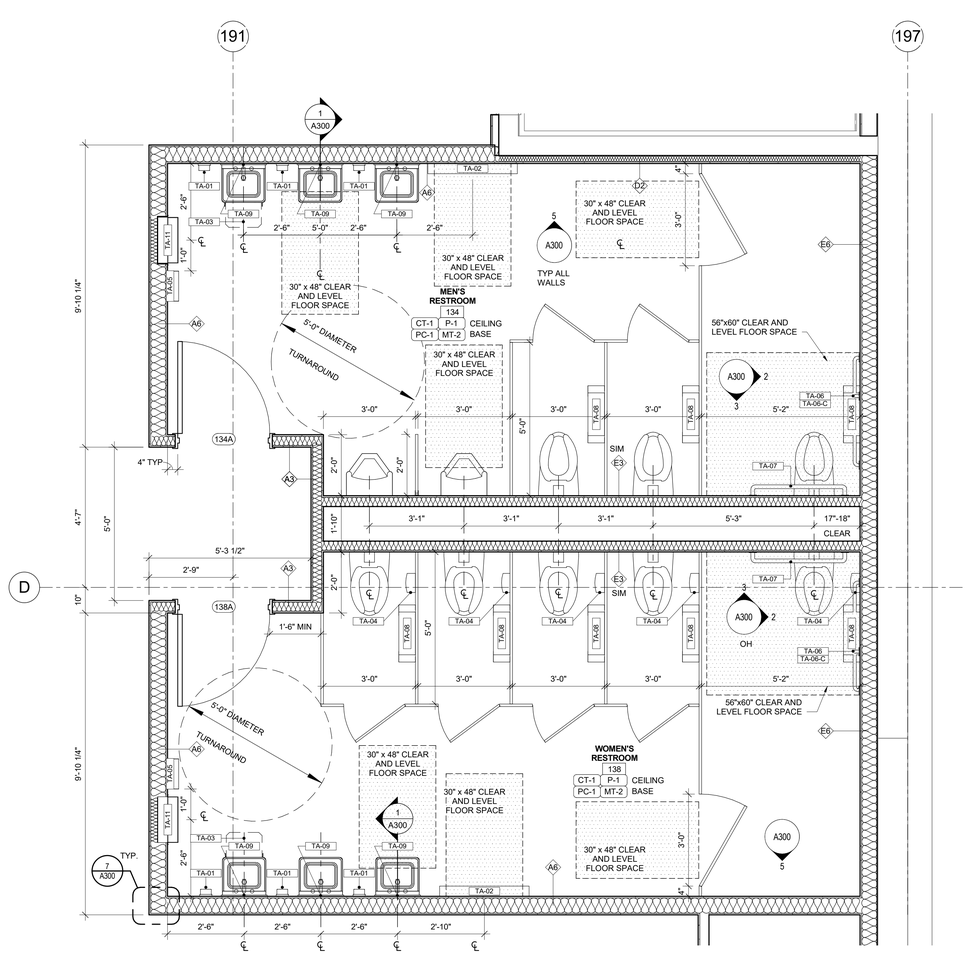
5/21/2018 5:09:51 PM

RESTROOM ACCESSORIES

CODE	QTY.	DESCRIPTION	MANUFACTURER	MODEL	FINISH	REMARKS	RESPONSIBILITY
TA-01	10	SOAP DISPENSER	DIVERSEY	5374651	GREY	SURFACE-MOUNTED	FURNISHED BY 365 / GC INSTALLED
TA-02	2	CHANGING STATION	KOALA KARE	KB200-GREY	GREY	SURFACE-MOUNTED HORIZONTAL	G.C. FURNISH AND INSTALL
TA-03	2	STEP STOOL	STEP 'N WASH	SNW-SS 975	STAINLESS STEEL	FLOOR MOUNTED	G.C. FURNISH AND INSTALL
TA-04	5	SURFACE-MOUNTED SANITARY NAPKIN DISPOSAL	BOBRICK WASHROOM EQUIPMENT, INC.	B-270		SATIN FINISH	G.C. FURNISH AND INSTALL
TA-05	2	HAND DRYER W/ RECESS KIT	XLERATOR	XL-SB, 40502	STAINLESS STEEL	RECESSED	G.C. FURNISH AND INSTALL
TA-06	2	42" GRAB BAR, 1-1/4" DIAMETER	BOBRICK	B-5806-42	STAINLESS STEEL	HORIZONTAL	G.C. FURNISH AND INSTALL
TA-06-C	2	18" GRAB BAR, 1-1/4" DIAMETER	BOBRICK	B-5806-18	STAINLESS STEEL	VERTICAL	G.C. FURNISH AND INSTALL
TA-07	2	36" GRAB BAR, 1-1/4" DIAMETER	BOBRICK	B-5806 - 36	STAINLESS STEEL	SATIN STAINLESS STEEL, HORIZONTAL	G.C. FURNISH AND INSTALL
TA-08	8	JUMBO BATH TISSUE DISPENSER, DOUBLE ROLL	TANDEM	C-233-DIBT D-JRT	BLACK	BLACK	FURNISHED BY 365 / GC INSTALLED
TA-09	6	MIRROR	BOBRICK	B-165 1836	STAINLESS STEEL	STAINLESS STEEL	G.C. FURNISH AND INSTALL
TA-11	2	RECESSED FRAME/ WASTE RECEPTACLE & PAPER TOWEL DISPENSER	BOBRICK	B-3942	STAINLESS STEEL	RECESSED	G.C. FURNISH AND INSTALL
TA-13	4	PAPER TOWEL DISPENSER - FOOD PREP	TANDEM	C-223-DIHT NO-TOUCH	BLACK	SURFACE MOUNTED, PROVIDE AT ALL DEPARTMENTS, SEE FIXTURE PLAN	G.C. FURNISH AND INSTALL

SHEET NOTES

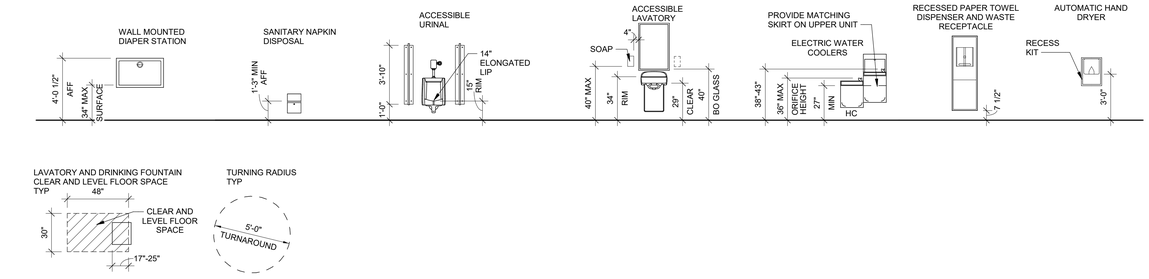
1. INTERIOR PLAN DIMENSIONS ARE TO FACE OF FINISH UNO.
2. REF FINISH PLANS FOR TILE AND PAINT INFORMATION.
3. REF FIXTURE HEIGHTS AND CLEARANCES.
4. PROVIDE A CONTINUOUS BEAD OF SEALANT IN THE FOLLOWING LOCATIONS:
   - PERIMETER OF ALL TOILETS AND URINALS TO WALLS AND FLOORS
   - PERIMETER OF SINK TO WALL
   - PERIMETER OF MIRRORS TO WALL
   - PERIMETER OF DIAPER CHANGING TABLE TO WALL
5. ORDER ENTIRE RESTROOM PACKAGE OF MATERIALS FROM THE VENDOR LISTED IN THE SPECIFICATIONS.
6. PROVIDE 2X BLOCKING BETWEEN STUDS TO SUPPORT ALL WALL MOUNTED ITEMS.
7. REF PLUMBING SHEETS FOR FIXTURE SCHEDULE
8. RESTROOM ELEVATIONS ARE REPRESENTATIVE OF TYPICAL FIXTURE MOUNTING HEIGHTS AND CLEARANCES. REFER TO PLAN FOR FIXTURES TO BE INSTALLED

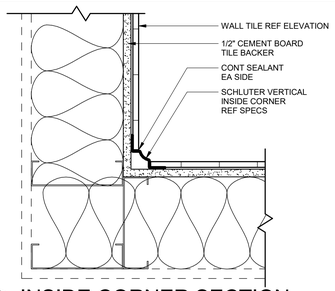


4 RESTROOMS ENLARGED PLANS
1/2" = 1'-0"

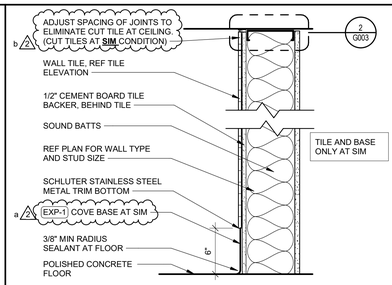
FIXTURE HEIGHTS AND CLEARANCES

COMPLY WITH THIS CHART AND ADA STANDARDS FOR ACCESSIBLE DESIGN



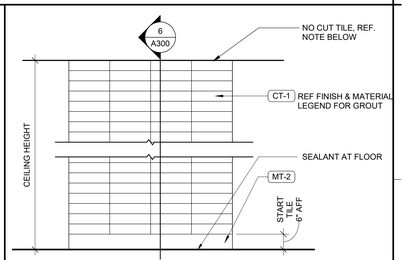


7 INSIDE CORNER SECTION
3" = 1'-0"



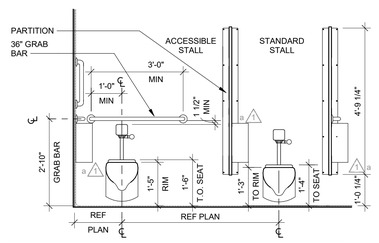
6 TILE WALL SECTION
1 1/2" = 1'-0"

TILE INSTALLER TO ADJUST GROUT SPACING ACROSS HEIGHT OF WALL TO ELIMINATE CUT TILE FROM CEILING OR BASE



5 RESTROOM WALL TILE ELEV
1/2" = 1'-0"

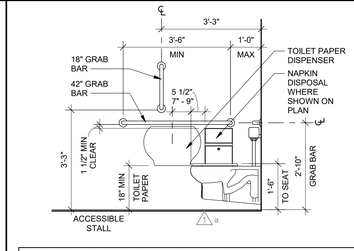
TILE INSTALLER TO ADJUST GROUT SPACING ACROSS HEIGHT OF WALL TO ELIMINATE CUT TILE AT CEILING.



NOTE: THIS ELEVATION IS REPRESENTATIVE OF TYPICAL FIXTURE MOUNTING HEIGHTS AND CLEARANCES. REFER TO PLAN FOR FIXTURES TO BE INSTALLED.

3 TYPICAL STALL ELEVATION
1/2" = 1'-0"

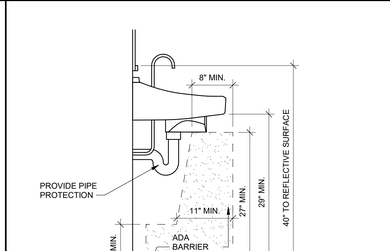
WALL FINISH NOT SHOWN FOR CLARITY



NOTE: THIS ELEVATION IS REPRESENTATIVE OF TYPICAL FIXTURE MOUNTING HEIGHTS AND CLEARANCES. REFER TO PLAN FOR FIXTURES TO BE INSTALLED.

2 TYPICAL STALL ELEVATION
1/2" = 1'-0"

WALL FINISH NOT SHOWN FOR CLARITY



1 RESTROOM LAVATORY
1" = 1'-0"

REF PLUMBING FOR ADDITIONAL LAVATORY INFORMATION

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brr

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BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:

Project No. 62911019

Professional Seal

Sheet Title
ENLARGED RESTROOM PLANS & ELEVATIONS

Sheet No.
A300

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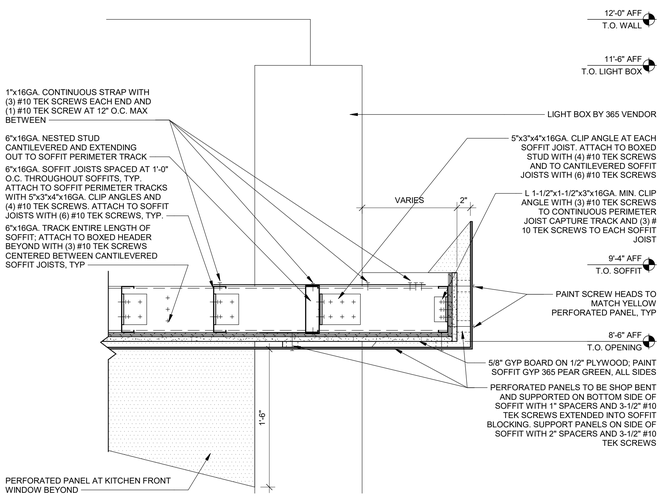
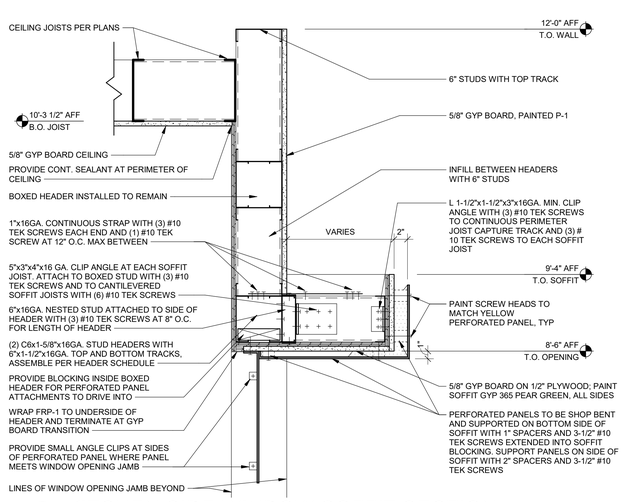
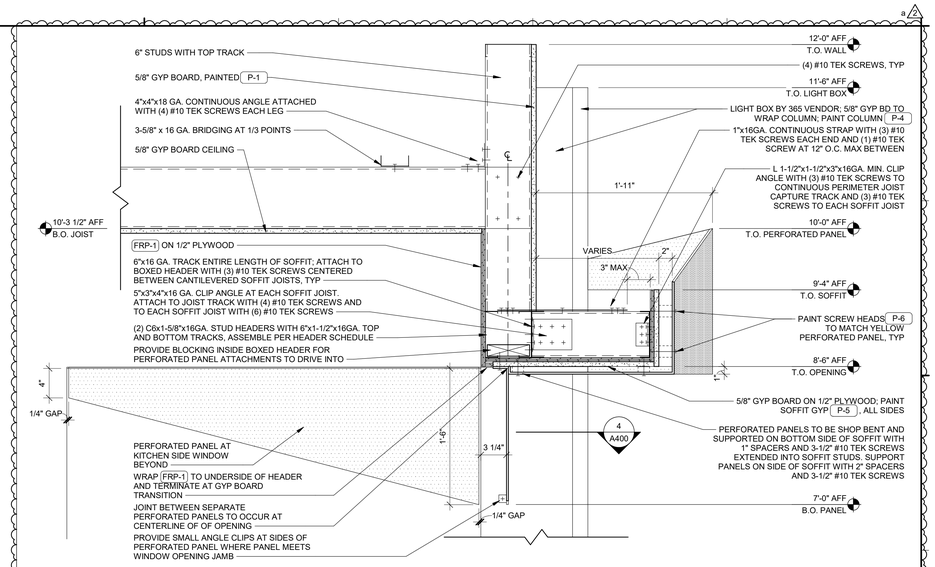


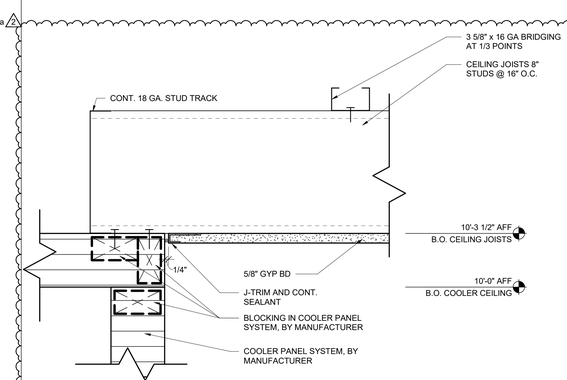
10 KITCHEN SOFFIT CANTILEVER SECTION
1 1/2" = 1'-0"



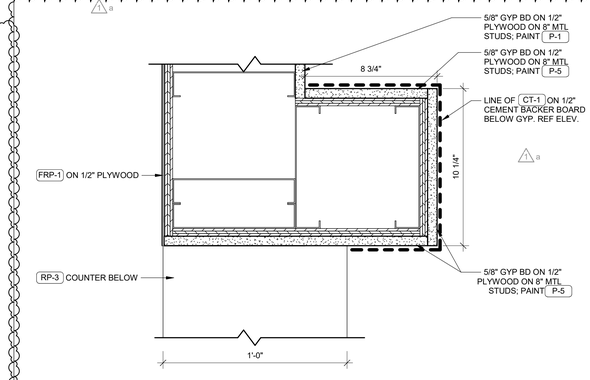
9 KITCHEN SIDE WINDOW SOFFIT SECTION
1 1/2" = 1'-0"



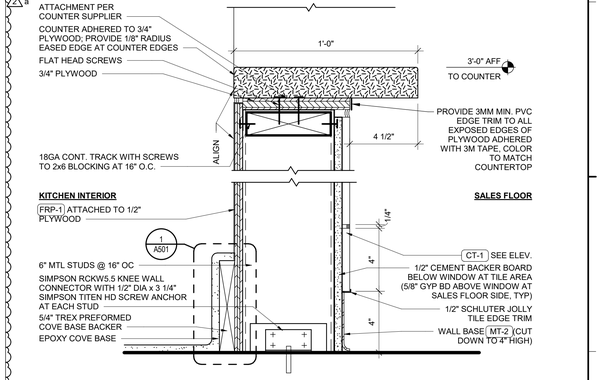
8 KITCHEN PICK-UP WINDOW SOFFIT SECTION
1 1/2" = 1'-0"



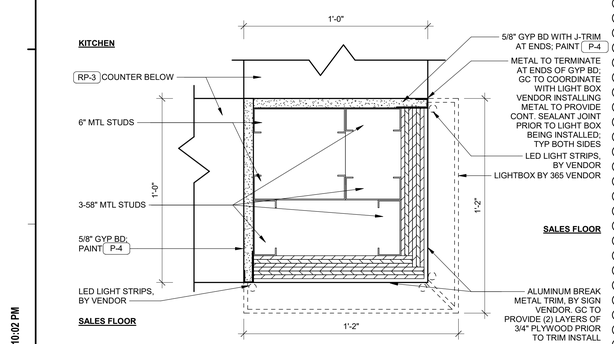
7 KITCHEN CEILING @ BACK WALL
3" = 1'-0"



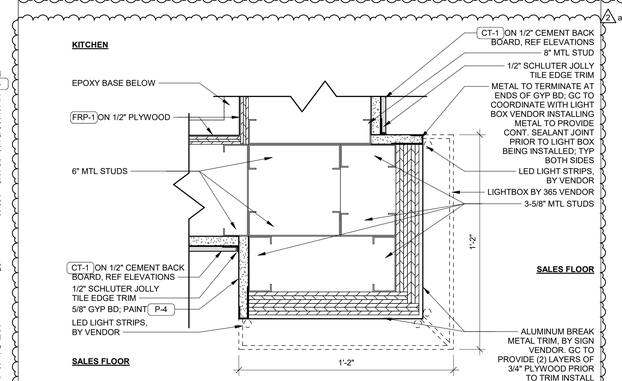
6 JAMB AT WINDOW
3" = 1'-0"



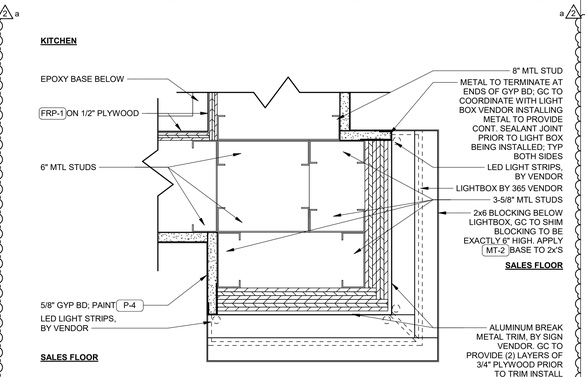
5 COUNTER SECTION
3" = 1'-0"



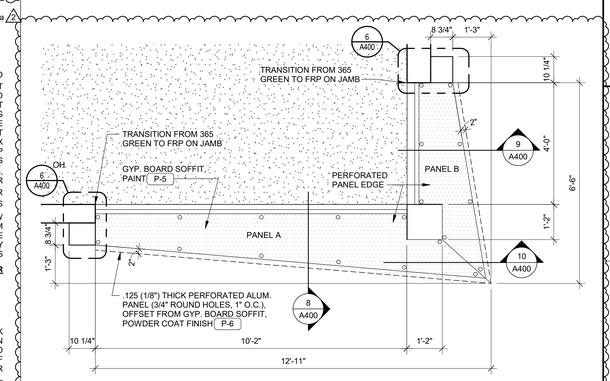
4 COLUMN DETAIL ABV COUNTER
3" = 1'-0"



3 COLUMN DETAIL BELOW COUNTER
3" = 1'-0"



2 COLUMN DETAIL AT BASE
3" = 1'-0"



1 REFLECTED CEILING PLAN
1/2" = 1'-0"

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
WALL SECTIONS

Sheet No.
A400

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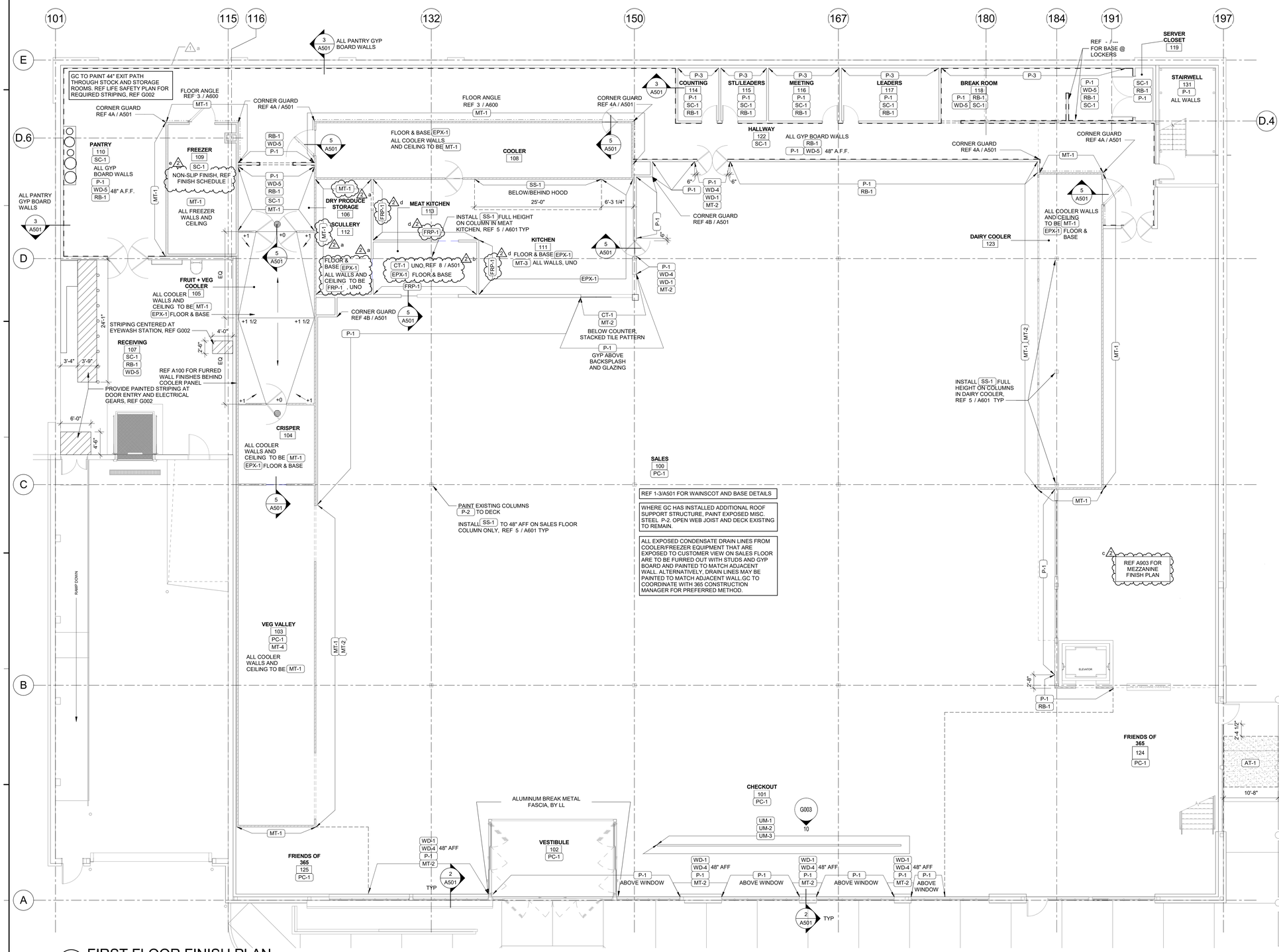

1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

SHEET NOTES

1. REFER FINISH AND MATERIALS LEGEND SHEET (A501) FOR FINISH INFORMATION
2. ALL GYPSUM WALL SURFACES TO BE PAINTED P-1, U.N.O.
3. ALL EXPOSED STRUCTURAL STEEL COLUMNS TO BE P-2.
4. ALL WALL BASES TO BE MT-2, U.N.O.
5. ALL FLOORING TO BE PC-1, U.N.O.
6. SOFFITS/GYP CEILINGS TO BE PAINTED P-1, U.N.O.
7. REFER INTERIOR ELEVATION FOR ADDITIONAL WALL FINISH INFORMATION.
8. REFER A501 FOR ADDITIONAL INTERIOR DETAILS
9. FREEZER SLAB TO RECEIVE NON-SLIP GRIT BROADCAST AND SEALED, REF SPECS
10. ALL ELECTRICAL PANELS TO RECEIVE FLOOR STRIPPING 4'-0" IN FRONT OF PANEL FOR ENTIRE WIDTH OF PANEL. REF ELECTRICAL PLAN FOR PANEL LOCATIONS.
11. PAINT ALL ACCESS PANELS TO MATCH ADJACENT WALL FINISH U.N.O. ACCESS PANELS IN THE RESTROOMS ARE TO BE STAINLESS STEEL.
12. ALL BOH OUTSIDE CORNERS TO RECEIVE CORNER GUARDS UP TO 4'-0 AFF,REF 4 / A501
13. COOLER / FREEZER MANUFACTURER TO PROVIDE WALL AND CEILING FINISHES UNO
14. FOR TYPICAL EPOXY BASE DETAIL IN COOLERS RECEIVING EPX-1, REF 1 / A501
15. FOR WD-4 WAINSCOT INSTALLATION, REF 2 / A501
16. RUN WAINSCOT AND BASE BEHIND BASES/FIXTURES 6" FROM EDGES, DO NOT RUN BEHIND ENTIRE CASE OR FIXTURE. TERMINATE WD-4 AT END PANEL OF CASE, DO NOT RUN BEHIND CASE.
17. INSTALL SS-1 AT ALL REVEALS ON SIDES AND TOP OF CASES AGAINST THE WALL AND PROVIDE CONT. SEALANT. ATTACH TO WALL, NOT CASE U.N.O.
18. ADD SLOPE USING BUILT UP EPOXY AS NOTED ON FINISH PLAN

FINISH PLAN LEGEND

PLYWOOD WAINSCOT, REF 3 / A501

PAINT STRIPPING AT EYE WASH, ELECTRICAL, AND PLUMBING LOCATIONS

FLOOR ANGLE, REF 3 / A600

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
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Sheet Title: FIRST FLOOR FINISH PLAN

Sheet No. A500

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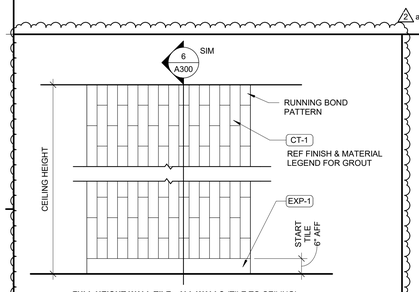
MATERIAL KEY

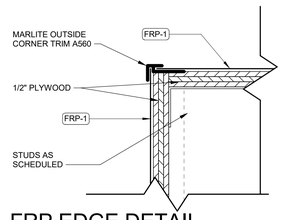
MARK	SPEC NAME	SPEC NUMBER	PRODUCT NAME	PRODUCT DESCRIPTION	PRODUCT NUMBER	MANUFACTURER NAME	MANUFACTURER CONTACT	DIMENSIONS SIZE	DIMENSIONS THICKNESS	COLOR	FINISH	NOTES
SEALED CONCRETE												
SC-1	SEALED CONCRETE FLOORING	096123	SEALED CONCRETE FLOORING	---	---	---	---	---	---	---	---	APPLY "SHUR-GRIP" POLYPROPYLENE NON-SLIP ADDITIVE WITH SEALER AT FREEZER SLAB. REF. SPECIFICATIONS
UNIT MASONRY												
UM-1	MASONRY	N/A	DECORATIVE CONCRETE MASONRY UNIT "VISTA"	DECORATIVE CONCRETE MASONRY UNIT	---	ORCO BLOCK	JUAN TEJEDA | 714.932.7120	7-5/8" x 17-5/8"	3-5/8"	WHITE	BURNISHED FINISH	DEMISING LOW PARTITION AT SEATING AREA AND BAKED GOODS; GROUT COLOR TO MATCH CMU BLOCK - SUBMIT SAMPLE FOR ARCHITECT APPROVAL
UM-2	MASONRY	N/A	DECORATIVE CONCRETE MASONRY UNIT	DECORATIVE CONCRETE MASONRY UNIT	---	ORCO BLOCK	JUAN TEJEDA | 714.932.7120	7-5/8" x 17-5/8"	3-5/8"	WHITE	BURNISHED FINISH	BLOCK BASE AND INTERMEDIATE SUPPORTS AT DEMISING LOW PARTITION AT SEATING AREA AND BAKED GOODS; SQUARE OUTSIDE CORNERS; GROUT COLOR TO MATCH CMU BLOCK - SUBMIT SAMPLE FOR ARCHITECT APPROVAL
UM-3	MASONRY	N/A	DECORATIVE CONCRETE MASONRY UNIT CAP	DECORATIVE CONCRETE MASONRY UNIT	---	ORCO BLOCK	JUAN TEJEDA | 714.932.7120	3-5/8" x 15-5/8"	3-5/8"	WHITE	BURNISHED FINISH	CAP AT DEMISING LOW PARTITION AT SEATING AREA AND BAKED GOODS; SQUARE OUTSIDE CONERS; 4x2x16 NOMINAL; GROUT COLOR TO MATCH CMU BLOCK - SUBMIT SAMPLE FOR ARCHITECT APPROVAL
WOOD												
WD-1	WOOD	062023	WOOD CAP	RED CEDAR	---	---	---	---	---	---	UNFINISHED	WOOD CAP AT WAINSCOT; TO BE CLASSIFIED AS CLASS B FLAME SPREAD
WD-3	WOOD	062023	BUTCHER BLOCK COUNTERTOP	MAPLE	---	---	---	SEE PLAN	1 1/2"	---	POLYURETHANE FOOD GRADE VARNISH	AT SEATING COUNTER TOP IN FRONT OF THE STORE. WITH FINGER JOINTS. TO BE CLASSIFIED AS CLASS B FLAME SPREAD
WD-4	WOOD	062023	PLYWOOD	ALDER	GRADE A - EXPOSED SIDE; GRADE B - OPPOSITE SIDE	---	---	4'-0" x 8'-0"	3/8"	---	CLEAR POLYURETHANE FINISH; (AQUAZAR ANTIQUE FLAT)	WAINSCOT ON EXPOSED GYP BOARD WALLS IN CUSTOMER AREAS. TO BE CLASSIFIED AS CLASS B FLAME SPREAD
WD-5	WOOD	062023	PLYWOOD	---	---	---	---	4'-0" x 8'-0"	1/2"	---	SANDED PLYWOOD	WAINSCOT ON EXPOSED GYP BOARD WALLS IN BREAK ROOM AND PANTRY STORAGE.
POLISHED CONCRETE												
PC-1	POLISHED CONCRETE FLOORING	033543	POLISHED CONCRETE FLOORING	---	---	---	---	---	---	---	800 GRIT POLISHED FINISH	
SURFACING SYSTEM												
AT-1	SYNTHETIC GRASS SURFACING SYSTEM	321816	SYNLAWN	ARTIFICIAL TURF	SYNRYE 214	SYNLAWN	LAURA MASON | 407.718.6617	SEE PLAN	---	---	---	EXTERIOR SURFACE AT EXTERIOR SEATING AREA. REF FINISH PLAN FOR EXACT LOCATION AND EXTENT.
RESILIENT WALL BASE												
RB-1	RESILIENT WALL BASE AND ACCESSORIES	096513	RESILIENT WALL BASE	---	13	ARMSTRONG	ROBIN MURPHY | 800.356.9301 x8193	6" HIGH	---	SHALE	---	REFER TO SPECS - COIL FORM
RESINOUS FLOORING												
EPX-1	RESINOUS FLOORING	096723	EPOXY FLOORING	---	---	STONHARD	BRIAN MASTAY | 800.854.0310	---	---	COBALT	STANDARD TEXTURE	EPOXY BASE; 6" HIGH; COVERED 3/8" MIN. RADIUS
CEILING FINISH												
CL-1	ACOUSTIC CEILING PANEL	095113	SHEETROCK BRAND LAY-IN CEILING PANELS, WITH CLIMAPLUS PERFORMANCE	VINYL FACED GYPSUM CEILING PANELS	3270	USG	---	2'X4'	1/2"	WHITE	VINYL-LAMINATED FACE	
RESINOUS PANELS												
RP-3	RESINOUS PANELS	064023	RESINOUS PANEL	CHROMA II	0029	3-FORM	VALERIE.WALKER@3-FORM.COM | 801.649.2500	REFER TO SHEET A400	2 1/8" MONOLITHIC	CRANBERRY R17 + REFLECT E01	VELLUM REFLECT E01	RESINOUS COUNTERTOPS AT PICK-UP WINDOW. REFER TO DETAILS ON SHEET A400. LONG LEAD TIME
INTERIOR PAINTING												
P-1	INTERIOR PAINTING	099123	INTERIOR PAINTING	LRV 78%	OC-95	BENJAMIN MOORE	ALEXANDRA SINCLAIR | 678.427.5006	---	---	NAVAJO WHITE	EGG SHELL	TYPICAL PAINT AT GYPSUM WALL BOARD SURFACES; REFER TO FINISH PLANS
P-2	INTERIOR PAINTING	099123	INTERIOR PAINTING	LRV 24%	2108-40	BENJAMIN MOORE	ALEXANDRA SINCLAIR | 678.427.5006	---	---	STARDUST	DTM SEMI-GLOSS ACRYLIC COATING	TYPICAL PAINT AT EXPOSED COLUMN SURFACES AT SALES FLOOR ONLY AND POWER POLE FINISH; REFER TO FINISH PLANS
P-3	INTERIOR PAINTING	099123	INTERIOR PAINTING	CUSTOM	---	SHERWIN WILLIAMS	PETE JONES | PETE.JONES@SHERWIN.COM	---	---	PEAR GREEN	EGG SHELL	ACCENT WALL COLOR IN BOH OFFICES AND BREAKROOM; G.C. TO ORDER PAINT THROUGH SHERWIN WILLIAMS NATIONAL CLIENT MANAGEMENT SYSTEM - REFER "WHOLE FOODS 365 PEAR GREEN".
P-4	INTERIOR PAINTING	099123	INTERIOR PAINTING	PANTONE 2188C				---	---	365 BLUE	FLAT SHEEN	PAINT AT KITCHEN PICK-UP WINDOW CORNER
P-5	INTERIOR PAINTING	099123	INTERIOR PAINTING	PANTONE 7737C				---	---	365 GREEN	FLAT SHEEN	PAINT AT KITCHEN WINDOW SIDE BUMP-OUTS AND SOFFIT
P-6	INTERIOR PAINTNG	099123	INTERIOR PAINTING	RAL 1018				---	---	365 YELLOW "ZINC YELLOW"	MESH POWDERCOAT	PAINT AT KITCHEN WINDOW PERFORATED PANEL
METAL FABRICATIONS												
MT-1	METAL FABRICATIONS	055000	METAL FABRICATIONS	KPS GLOBAL METAL PANEL	26GA	KPS GLOBAL	CAROL STACHER | (682) 317-5310	REFER TO MANUFACTURER	REFER TO MANUFACTURER	GALVANIZED METAL	STUCCO	REFER TO FINISH PLANS FOR LOCATIONS OF MT1
MT-2	DECORATIVE METAL	057000	METAL FABRICATIONS	METAL COVE BASE	---	---	---	6" HIGH	---	STAINLESS STEEL	---	REFER TO FINISH PLANS FOR LOCATIONS OF MT2 WALL AND/OR MILLWORK BASE; 3/8" RADIUS COVE BASE
MT-3	METAL FABRICATIONS	057000	METAL FABRICATIONS	KPS GLOBAL METAL PANEL	26GA	KPS GLOBAL	CAROL STACHER | (682) 317-5310	REFER TO MANUFACTURER	REFER TO MANUFACTURER	WHITE	STUCCO	KITCHEN/SCULLERY INTERIOR AND SALES FLOOR/CORRIDOR FINISH
MT-4	METAL FABRICATIONS	055000	METAL FABRICATIONS	KPS GLOBAL METAL BASE	---	KPS GLOBAL	CAROL STACHER | (682) 317-5310	6" HIGH	REFER TO MANUFACTURER	GALVANIZED METAL	STUCCO	REFER TO FINISH PLANS FOR LOCATIONS OF MT4
SS-1	METAL FABRICATIONS	055000	METAL FABRICATIONS	---	---	---	---	---	---	---	#4 BRUSHED STAINLESS STEEL	WAINSCOT AT COLUMNS
CERAMIC TILE												
CT-1	CERAMIC TILE	093000	CERAMIC TILE	ELEVARE CERAMIC WALL TILE	EL40	DALTILE	EMILY HATCH | 678.614.3473	4" x 16"	5/16"	LUNAR	GLAZED W/ MATTE FINISH, SEALED GROUT	RESTROOM AND KITCHEN PICK-UP WINDOW: STACKED BOND PATTERN; GROUT: MAPEI 10 BLACK MEAT KITCHEN: RUNNING BOND PATTERN; GROUT: MAPEI 27 SILVER
CT-2	CERAMIC TILE	093000	CERAMIC TILE	CERAMIC WALL TILE	AV241	CROSSVILLE SHADES		12" x 24"	10.5 mm	FROST HONED	GLAZED W/ MATTE FINISH, SEALED GROUT	RUNNING BOND TILE CONFIGURATION - BEER VENUE; GROUT: TCE - 939 MIST
FIBER REINFORCED PLASTIC												
FRP-1	FIBERGLASS REINFORCED PLASTIC PANEL	066413	FIBERGLASS REINFORCED PLASTIC PANEL	FRP PANELS	S100 S/2/S	MARLITE	MICHAEL HAVRILLA | 330.343.6621	4'-0" x 8'-0"	3/32"	WHITE	SMOOTH	FLAME SPREAD: CLASS A; KITCHEN SIDE OF STOREFRONT; SCULLERY INTERIOR AT WALLS; ALUMINUM TRIM
GLAZING												
GL-1	GLAZING	088000	INTERIOR STOREFRONT GLAZING	UN-COATED CLEAR MONOLITHIC FLOAT GLASS, FULLY TEMPERED	---	REFER TO MANUFACTURER	---	---	1/4"	CLEAR	---	OCCURS AT KITCHEN PICK-UP WINDOW TRANSOM - REFER TO DETAIL 1/A400
GL-2	GLAZING	088000	INTERIOR STOREFRONT GLAZING	UN-COATED CLEAR MONOLITHIC FLOAT GLASS, FULLY TEMPERED	---	REFER TO MANUFACTURER	---	---	1/2"	CLEAR	---	OCCURS AT TRANSOMS ABV VEG VALLEY & MEAT DEPT. OPENINGS - REFER TO DETAILS 3/A400 AND 12/A600
GL-3	GLAZING	088000	INTERIOR STOREFRONT GLAZING	UN-COATED CLEAR MONOLITHIC FLOAT GLASS, FULLY TEMPERED	---	REFER TO MANUFACTURER	---	---	3/8"	CLEAR	---	

EQUIPMENT MATERIAL KEY

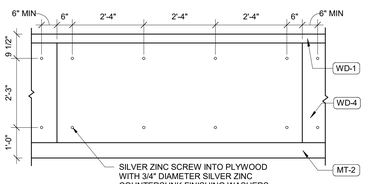
MARK	SPEC NAME	SPEC NUMBER	PRODUCT NAME	PRODUCT DESCRIPTION	PRODUCT NUMBER	MANUFACTURER NAME	MANUFACTURER CONTACT	DIMENSIONS SIZE	DIMENSIONS THICKNESS	COLOR	FINISH	NOTES
POWDER COAT FINISHES												
PW-1	POWDER COAT FINISH	N/A	POWDER COAT FINISH	---	RAL 7030; 049-70789	TIGER/DRYLAC	H-QUARTERS | 800.243.8148	---	---	STONE GREY	---	EXTERIOR OF ALL REFRIGERATION EQUIPMENT. FRONT AND SIDE SURFACES, DOOR FRAMES, AND BASES; ITEMS RECEIVING THIS FINISH WILL HAVE BUMPER BP1; REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFO
PW-2	POWDER COAT FINISH	N/A	POWDER COAT FINISH	---	RAL 3020; 049-72890	TIGER/DRYLAC	H-QUARTERS | 800.243.8148	---	---	RED-ORANGE	---	EXTERIOR OF MEAT/SEAFOOD COFFINS (NOT FROZEN COFFINS); ITEMS RECEIVING THIS FINISH WILL HAVE BUMPER BP2; REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFO
COUNTERTOP												
CS-1	SOLID SURFACE	064023	COUNTERTOP SURFACE	---	R100	RICHLITE	---	---	1" MONOLITHIC	MAPLE VALLEY	LEATHERED	RESINOUS COUNTERTOPS AT FOOD BARS
CS-2	FURNITURE LINOLEUM	064023	COUNTERTOP SURFACE	---	4182	FORBO	---	---	2 MM	SPRING GREEN	---	COUNTERTOPS AT REGISTERS
PLASTIC LAMINATE												
PL-1	PLASTIC LAMINATE	064023	PLASTIC LAMINATE	---	Y0308	WILSONART LAMINATE	DAVID MAY | 770.593.2225	PER MILLWORK REQUIREMENTS; REFER TO MILLWORK DRAWINGS	---	COFFEE BEAN GRAIN	---	PLASTIC LAMINATE VERTICAL SURFACE AT STANDARD REGISTERS
PL-2	PLASTIC LAMINATE	064023	PLASTIC LAMINATE	---	Y0324	WILSONART LAMINATE	DAVID MAY | 770.593.2225	REFER TO EQUIPMENT SCHEDULE	---	ISLAND WOOD	MATTE	PLASTIC LAMINATE VERTICAL SURFACE AT FOOD BARS
PL-3	PLASTIC LAMINATE	064023	PLASTIC LAMINATE	---	Y0034	WILSONART LAMINATE	DAVID MAY | 770.593.2225	PER MILLWORK REQUIREMENTS; REFER TO MILLWORK DRAWINGS	---	CITRUS ZEST	MATTE	PLASTIC LAMINATE VERTICAL SURFACE AT EXPRESS REGISTERS
PL-4	PLASTIC LAMINATE	064023	PLASTIC LAMINATE	---	K0247	FENIX NTM	WALLY BROOKS | 770.650.7375	PER MILLWORK REQUIREMENTS; REFER TO MILLWORK DRAWINGS	1/16"	ZINCO DOHA	MATTE	COUNTERTOP AT CHECKSTANDS, SUPERVISOR STATION, CONDIMENT STATION.
EQUIPMENT BUMPER RAILS												
BP-1	WALL AND DOOR PROTECTION	102600	BUMPER RAIL	ECO SUPERFLEX 1000 BUMPER RAIL	---	BOSTON	LINDA ARSENAULT | 781.306.4060	1" ROUND PROFILE	0.843" TOP; 0.41" ALUM RAIL	ALUMINUM METALLIC	598	VARIOUS EQUIPMENT ITEMS; APPLIED TO EQUIPMENT CASES WITH PL1 FINISH; REFER TO EQUIPMENT SCHEDULE
WOOD												
WL-1	WOOD	062023	WOOD LEGS	MAPLE	---	---	---	---	---	---	CLEAR FINISH, MAPLE	WOOD LEGS AT FOOD BARS
LOZIER SHELVING												
LS-1	PREFINISHED METAL	N/A	OYSTER	---	---	---	---	---	---	---	---	LOZIER SHELVING WITH S04 SEALED PARTICLEBOARD SHELVING



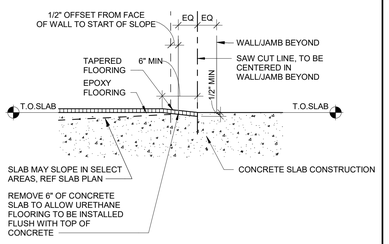
8 MEAT KITCHEN TILE DETAIL
1/2" = 1'-0"



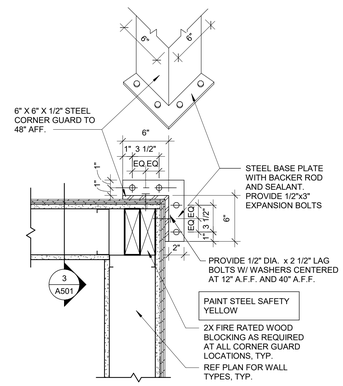
7 FRP EDGE DETAIL
6" = 1'-0"



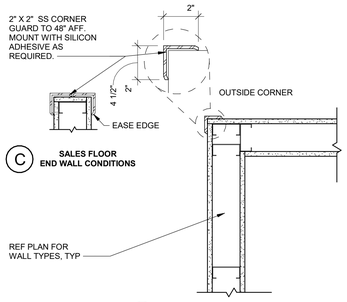
6 WAINSCOT ELEVATION
1/2" = 1'-0"



5 CONC FLOOR TRANSITION
3" = 1'-0"



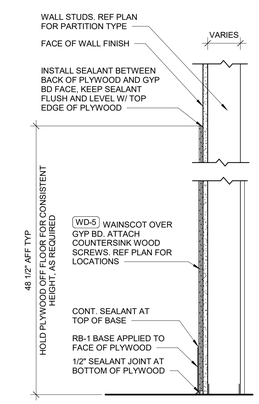
A BACK OF HOUSE CORNER GUARD LOCATIONS



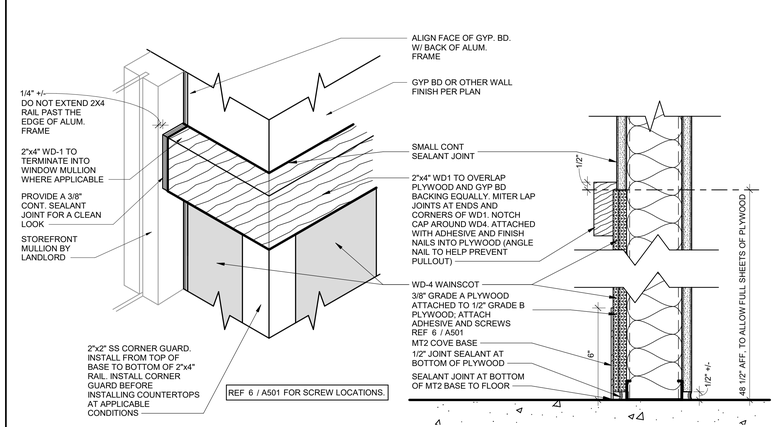
C SALES FLOOR END WALL CONDITIONS

B SALES FLOOR CORNER GUARD LOCATIONS

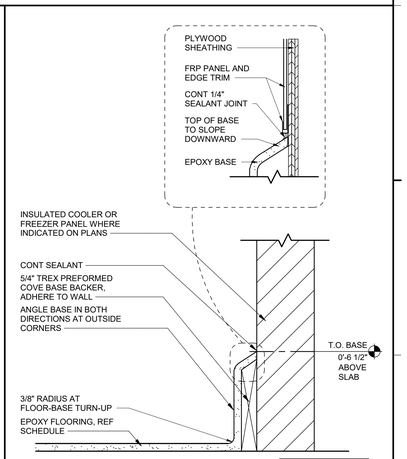
4 CORNER GUARD
1 1/2" = 1'-0"



3 BOH WAINSCOT DETAIL
1 1/2" = 1'-0"



2 SALES FLOOR WAINSCOT DETAIL
3" = 1'-0"



1 COVE BASE DETAIL
3" = 1'-0"

REFER TO 2-A400 FOR ADDITIONAL BASE INFORMATION

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brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

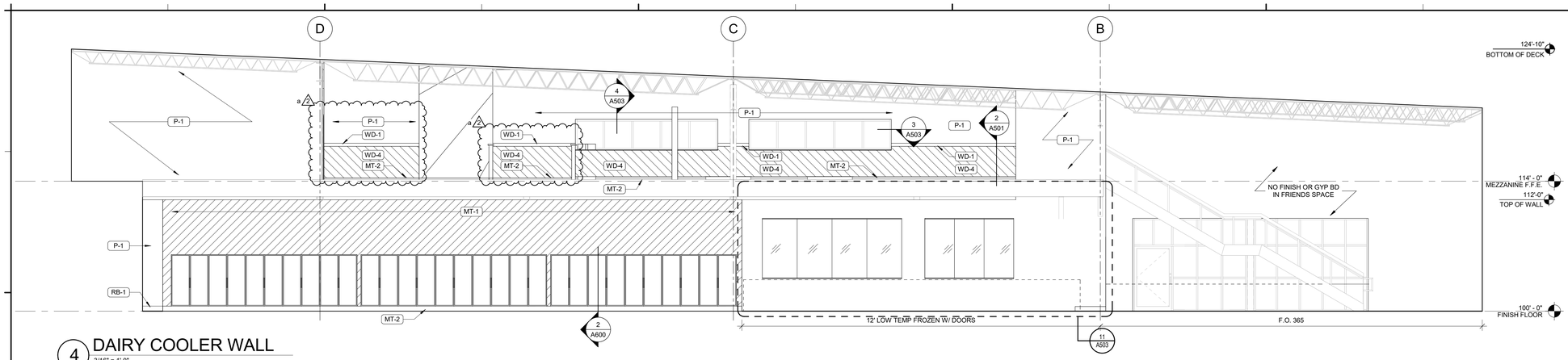
Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
FINISH AND MATERIALS KEY

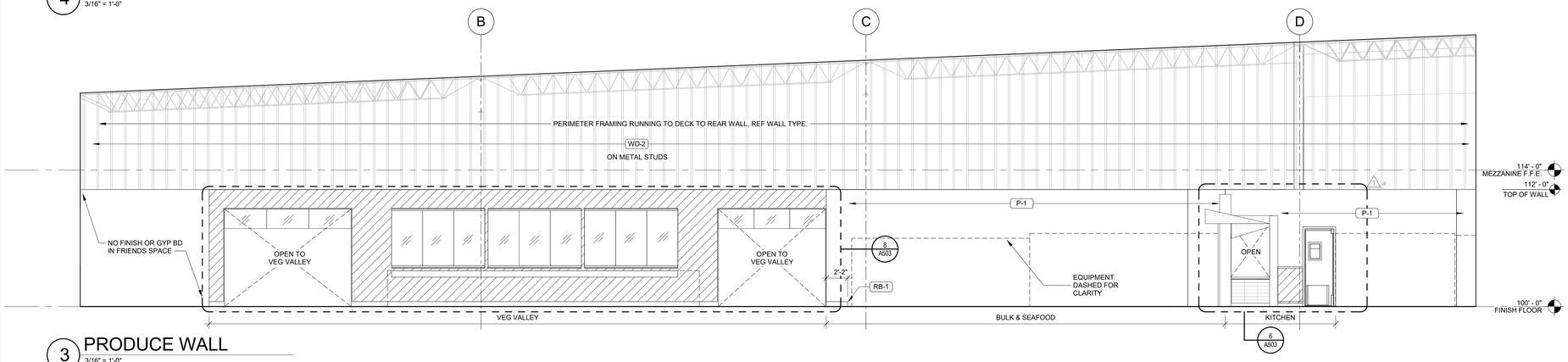
Sheet No.
A501

SHEET NOTES

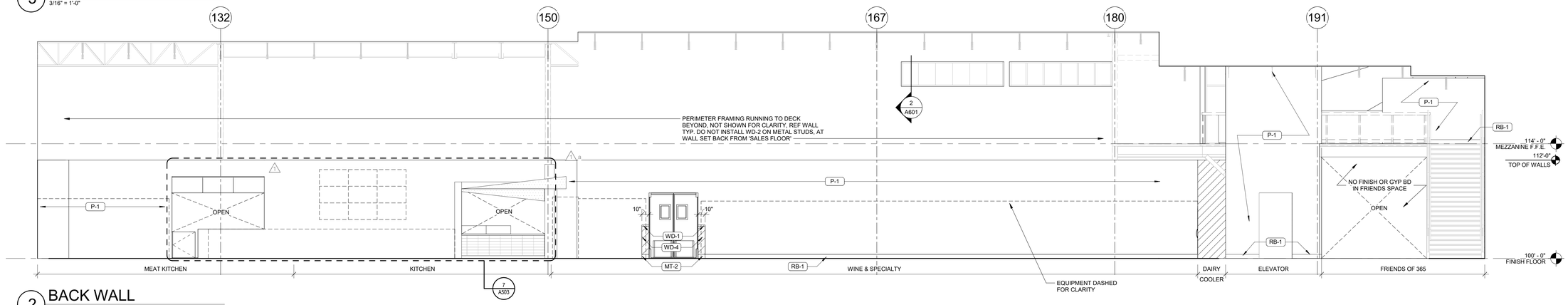
1. REFER TO SHEET A500 FOR FINISH PLAN AND A502 FOR FINISHES INFORMATION
2. REFER TO SHEET A0.1 FOR EQUIPMENT AND FURNITURE PLAN AND SHEET A0.2 FOR EQUIPMENT AND FURNITURE SCHEDULE INFORMATION.
3. GYP BD GOES TO DECK AT FRONT WALL.
4. NO WALL-MOUNTED EQUIPMENT ON CERAMIC TILE U.N.O.
5. ALL REFRIGERATION LINES TO RUN WITHIN WALL AND TIGHT TO COOLER PANELS.



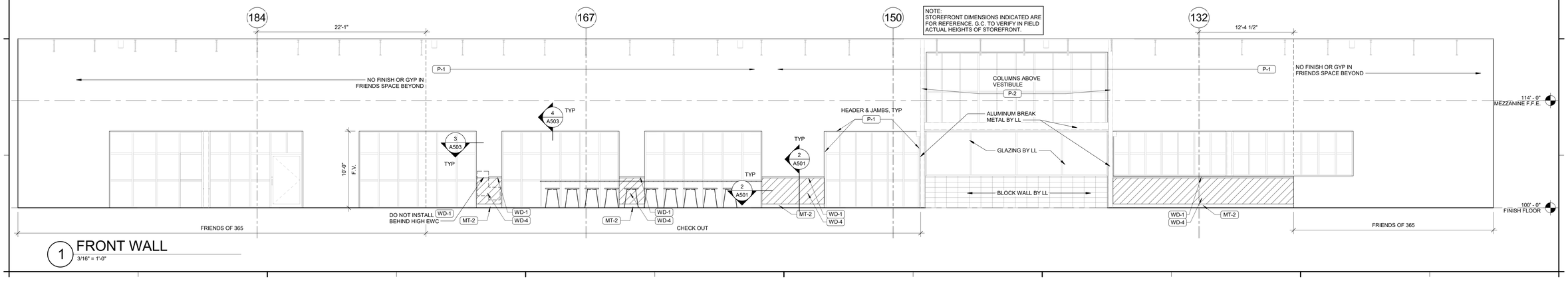
4 DAIRY COOLER WALL
3/16" = 1'-0"



3 PRODUCE WALL
3/16" = 1'-0"



2 BACK WALL
3/16" = 1'-0"



1 FRONT WALL
3/16" = 1'-0"

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brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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1	03/06/18	Addendum #1
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Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:

Project No. 62911019

Professional Seal

Sheet Title
INTERIOR ELEVATIONS

Sheet No.
A502

BRR Original printed on recycled paper

DOOR HARDWARE SCHEDULE

HARDWARE SET	QTY	DESCRIPTION	FINISH	REMARKS
1	1	LOCKSET ELEC - SCHLAGE CO-100-CY-70-KP-SPA PD	626	SECURITY LOCKSET
	3	HINGE - MCKINNEY MPB79 4 1/2x 4 1/2	26D	
	1	SURFACE CLOSER - LCN 4040XP CUSH	AL	
	1	WALL STOP - ROCKWOOD 406	US32D	
	1 SET	SEALS - PEMKO S88 D 17'	GRAY	
	2	DOOR VIEWER - ROCKWOOD 622	CRM	INSTALL AT 48" AND 60" AFF
	0	KICK PLATE		
2	1	PUSH PLATE - ROCKWOOD 70C-RK W 4x16	US32D	RESTROOM LOCKSET
	1	PULL PLATE - ROCKWOOD 102 x 70C	US32D	
	3	HINGE - MCKINNEY MPB79 4 1/2x 4 1/2	26D	
	1	SURFACE CLOSER - LCN 4040XP CUSH	AL	
	1	WALL STOP - ROCKWOOD 406	US32D	
	1	KICK PLATE - ROCKWOOD K1050 10"x34"	US32D	
	3	SILENCERS - IVES SR64	GRAY	
	1	TOE PULL - STEPNPULL	SILVER	
3	1	OFFICE LOCKSET - SCHLAGE ND50PD SPA	626	OFFICE LOCKSET
	3	HINGE - MCKINNEY MPB79 4 1/2x 4 1/2	26D	
	1	WALL STOP - ROCKWOOD 406	US32D	
	1	KICK PLATE - ROCKWOOD K1050 10"x34"	US32D	
	1 SET	SEALS - PEMKO S88 D 17'	GRAY	
4	1	PASSAGE LOCKSET - SCHLAGE ND10S SPA	626	PASSAGE LOCKSET
	8	HINGE - MCKINNEY MPB79 4 1/2x 4 1/2	26D	
	1	SURFACE CLOSER - LCN 4040XP CUSH	AL	
	2	WALL STOP - ROCKWOOD 406	US32D	
	2	KICK PLATE - ROCKWOOD K1050 10"x34"	US32D	
	0	SILENCERS		
	2	FLUSH BOLTS - ROCKWOOD 555	US26D	
	1	DUST PROOF STRIKE - ROCKWOOD 570	US26D	

G.C. TO COORDINATE AND ORDER DOOR HARDWARE THROUGH PREFERRED VENDOR:

THE COOK AND BOARDMAN GROUP, LLC
CONTACT: RUTHIE PARDUE - NATIONAL ACCOUNTANTS MANAGER
E-MAIL: RPARDUE@COOKANDBOARDMAN.COM

DOOR SCHEDULE

#	ROOM NAME	TYPE	DOOR ASSEMBLY MATERIAL	DOOR ASSEMBLY FINISH	DOOR ASSEMBLY DIMENSIONS WIDTH	DOOR ASSEMBLY DIMENSIONS HEIGHT	DOOR ASSEMBLY DIMENSIONS THICK	FRAME ASSEMBLY MATERIAL	FRAME ASSEMBLY FINISH	FRAME ASSEMBLY DETAILS HEAD	FRAME ASSEMBLY DETAILS JAMB	HARDWARE SET	REMARKS
106A	DRY PRODUCE STORAGE TO PANTRY	C	---	---	6' - 8"	8' - 0"	0"	H.M.	P1	1-E	1-F	---	---
110B	RECEIVING	B1	PLAST	GRAY	8' - 0"	8' - 0"	1 3/4"	PLASTIC	P1	1-C	1-D	PER MFR	6
111A	KITCHEN	B	PLAST	GRAY	3' - 0"	7' - 0"	1 3/4"	PLASTIC	P1	1-C	1-D	PER MFR	6
114A	COUNTING OFFICE	A	WOOD	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	1	4
115A	STL/LEADERS OFFICE	A1	WOOD/GLASS	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	3	---
116A	MEETING ROOM	A1	WOOD/GLASS	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	3	---
117A	LEADERS OFFICE	A1	WOOD/GLASS	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	3	---
119A	SERVER ROOM	D	WOOD	WOOD	8' - 0"	8' - 0"	1 3/4"	H.M.	P1	1-A	1-B	4	7
122A	HALLWAY	B1	PLAST	GRAY	6' - 0"	8' - 0"	1 3/4"	PLASTIC	P1	1-C	1-D	PER MFR	6
122B	FRIENDS RECEIVING	B1	PLAST	GRAY	6' - 0"	8' - 0"	1 3/4"	PLASTIC	P1	1-C	1-D	PER MFR	6
134A	MEN'S RESTROOM	A	WOOD	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	2	---
137A	GLASS WASH/STORAGE ROOM	A	WOOD	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	2	---
138A	WOMEN'S RESTROOM	A	WOOD	WOOD	3' - 0"	7' - 0"	1 3/4"	H.M.	P1	1-A	1-B	2	---

EXISTING DOOR SCHEDULE (FOR REFERENCE ONLY)

365 G.C. TO INCLUDE THE PAINTING AND SIGNS OF THESE DOORS PER THIS SCHEDULE ONLY

#	ROOM NAME	TYPE	DOOR ASSEMBLY MATERIAL	DOOR ASSEMBLY FINISH	DOOR ASSEMBLY DIMENSIONS WIDTH	DOOR ASSEMBLY DIMENSIONS HEIGHT	DOOR ASSEMBLY DIMENSIONS THICK	FRAME ASSEMBLY MATERIAL	FRAME ASSEMBLY FINISH	FRAME ASSEMBLY DETAILS HEAD	FRAME ASSEMBLY DETAILS JAMB	HARDWARE SET	REMARKS
1	VESTIBULE	---	ALUM/GLASS	ETR	19'-4"	10'-0"	2"	ALUM.	ETR	---	---	BY LL	1, 2, 3
2	VESTIBULE	---	ALUM/GLASS	ETR	14'-0"	10'-0"	1-3/4"	ALUM.	ETR	---	---	BY LL	1, 2, 3
3	VESTIBULE	---	ALUM/GLASS	ETR	14'-0"	10'-0"	1-3/4"	ALUM.	ETR	---	---	BY LL	1, 2, 3
4	FRIENDS OF 365	---	ALUM/GLASS	ETR	4'-0"	7'-0"	1-3/4"	ALUM.	ETR	---	---	BY LL	1, 2, 3
5	FRIENDS OF 365	---	ALUM/GLASS	ETR	4'-0"	7'-0"	1-3/4"	ALUM.	ETR	---	---	BY LL	1, 2, 3
6	TRUCK BAY MAN DOOR	---	HM	ETR	4'-0"	7'-0"	1-3/4"	HM	ETR	---	---	BY LL	---
7	TRUCK BAY TRUCK DOOR	---	STEEL COIL OVERHEAD	ETR	24'-0"	16'-0"	---	ALUM.	ETR	---	---	BY LL	---
8	LOADING DOCK MAN DOOR	---	H.M.	P1 INTERIOR	5'-0"	7'-0"	1-3/4"	H.M.	P1 INTERIOR	---	---	BY LL	1, 2, 3
9	LOADING DOCK TRUCK DOOR	---	STEEL COIL OVERHEAD	P1 INTERIOR	8'-0"	10'-0"	---	STEEL	P1 INTERIOR	---	---	BY LL	---
10	TRASH COMPACTOR	---	HM	P1 INTERIOR	4'-0"	4'-0"	1-3/4"	H.M.	P1 INTERIOR	---	---	BY LL	---
11	STAIRWELL	---	HM	P1 INTERIOR	3'-0"	7'-0"	1-3/4"	H.M.	P1 INTERIOR	---	---	BY LL	---
12	STAIRWELL	---	HM	P1 INTERIOR	3'-0"	7'-0"	1-3/4"	H.M.	P1 INTERIOR	---	---	BY LL	---
13	VESTIBULE	---	ALUM/GLASS	ETR	6'-0"	7'-0"	1-3/4"	ALUM	ETR	---	---	BY LL	3
14	VESTIBULE	---	ALUM/GLASS	ETR	6'-0"	7'-0"	1-3/4"	ALUM	ETR	---	---	BY LL	1, 2

GENERAL NOTES

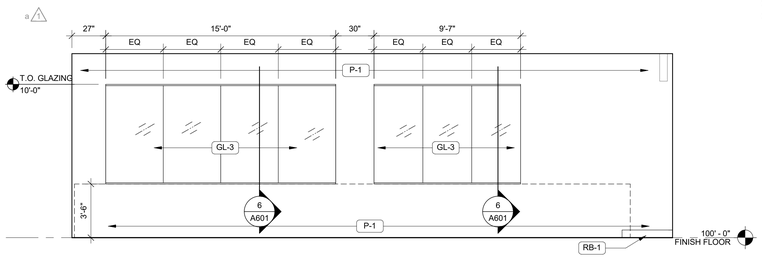
1. SCHEDULED WIDTH AND HEIGHT ARE CLEAR OPENING SIZE.
2. ALL FRAMES TO BE WELDED, UNO.
3. PAINT DOOR PANELS AND FRAME TO MATCH ADJACENT WALL.
4. ALL IMPACT TRAFFIC DOORS TO RECEIVE BUMPERS.
5. PROVIDE WINDOW SHADES ON OFFICE SIDE OF ALL DOORS WITH WINDOWS: PHIFER SHEERWEAVE, STYLE 4100, COLOR Q15 GRAYSTONE.
6. GC TO VERIFY & PROVIDE SCHLAGE CYLINDERS FOR SHELL DOORS AS NEEDED, FOR KEYING. THIS INCLUDES AUTO SLIDE, STOREFRONT AND HOLLOW METAL DOORS.
7. GC TO VERIFY & PROVIDE 365 APPROVED EXTERIOR DOOR SWEEPS AS NEEDED. XCLUDER COMMERCIAL PEST CONTROL DOOR SWEEP.

SCHEDULE NOTES

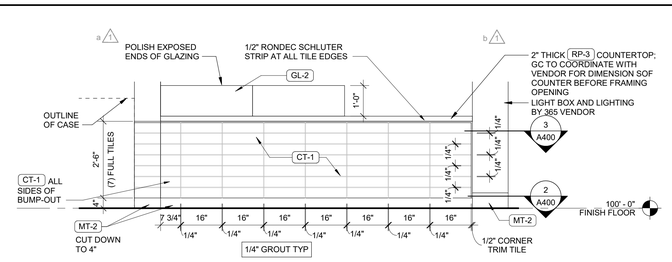
1. EXIT DEVICE AS SPECIFIED.
2. SIGNAGE: PROVIDE 1" HIGH LETTERS IN CONTRASTING COLORS TO BACKGROUND TEXT TO READ "IN EMERGENCY PUSH TO OPEN."
3. PROVIDE TACTILE "EXIT" SIGN.
4. PROVIDE ONE WAY VIEWER IN DOOR.
5. NOT USED
6. ELIASON SR-9000 IMPACT TRAFFIC DOOR.
7. PROVIDE 20"X20" TITUS T-7000L DOOR GRILLE WITH FILTER

MATERIAL KEY

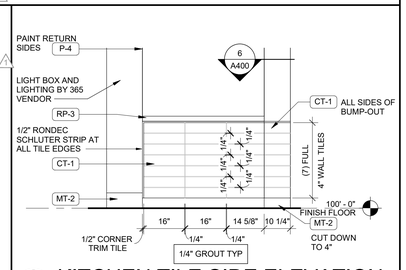
MARK	DESCRIPTION
ALUM	ALUMINUM
CL	CHAIN LINK
HM	HOLLOW METAL
N	COOLER/FREEZER PANEL
PLAST	PLASTIC



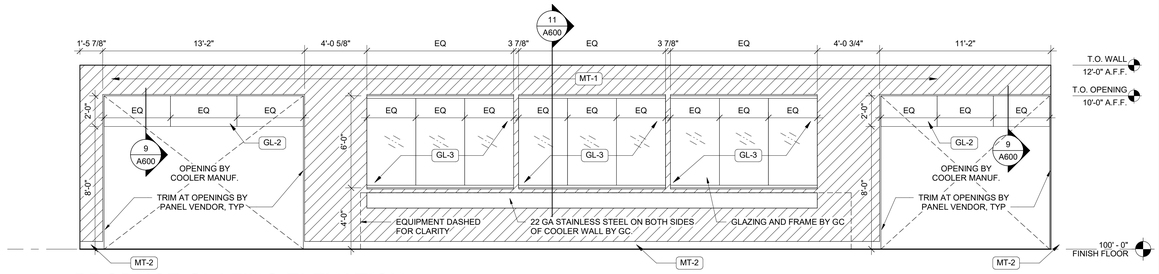
11 FRIENDS GLAZING ELEVATION
1/4" = 1'-0"



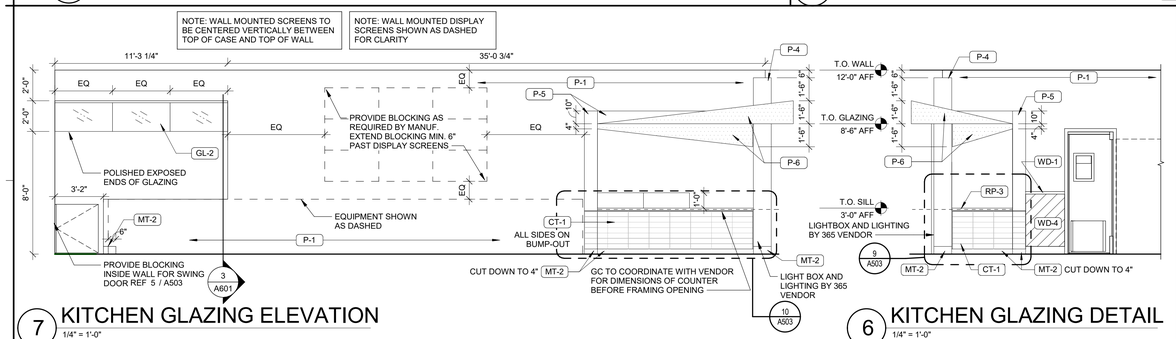
10 KITCHEN TILE FRONT ELEVATION
1/2" = 1'-0"



9 KITCHEN TILE SIDE ELEVATION
1/2" = 1'-0"

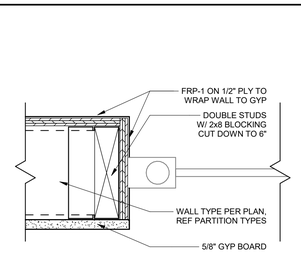


8 PRODUCE GLAZING ELEVATION
1/4" = 1'-0"

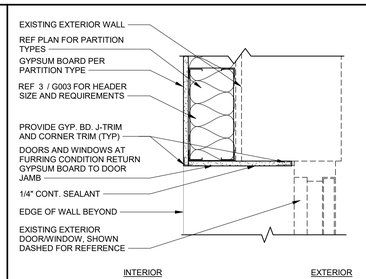


7 KITCHEN GLAZING ELEVATION
1/4" = 1'-0"

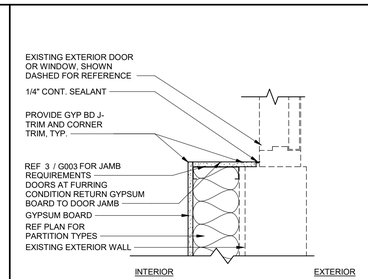
6 KITCHEN GLAZING DETAIL
1/4" = 1'-0"



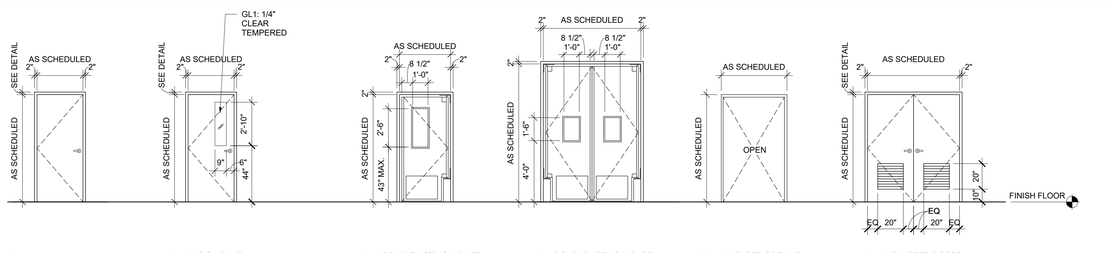
5 MEAT DEPT. DOOR JAMB
3" = 1'-0"



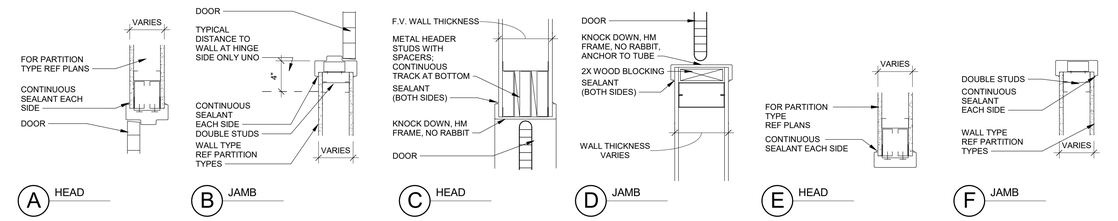
4 HEAD AT EXIST. OPENING
1 1/2" = 1'-0"



3 JAMB/SILL AT EXIST. OPENING
1 1/2" = 1'-0"



2 DOOR TYPES
1/4" = 1'-0"



1 HEAD AND JAMB DETAILS
1 1/2" = 1'-0"

REFER TO 3-G003 FOR HEADER REQUIREMENTS

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
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Sheet Title
DOOR & WINDOW SCHEDULE & DETAILS

Sheet No.
A503

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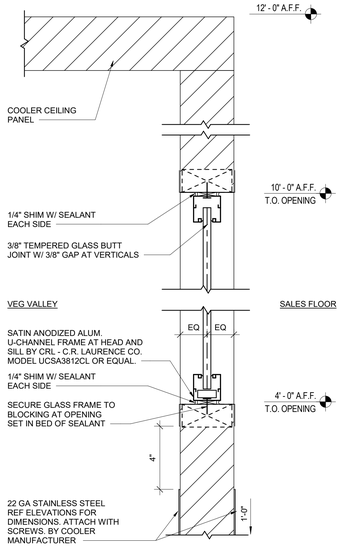
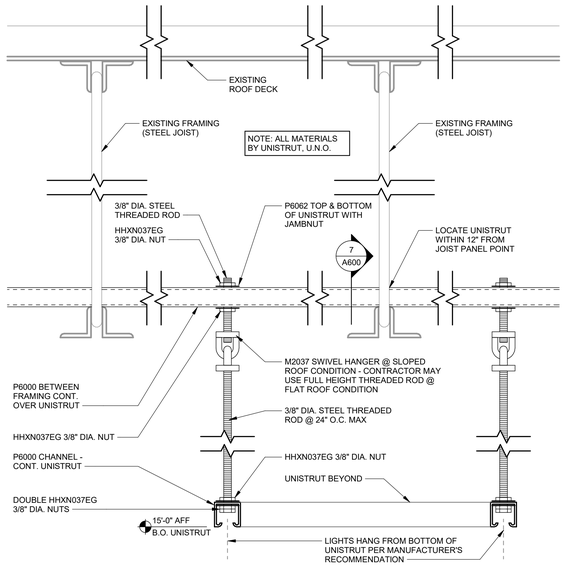


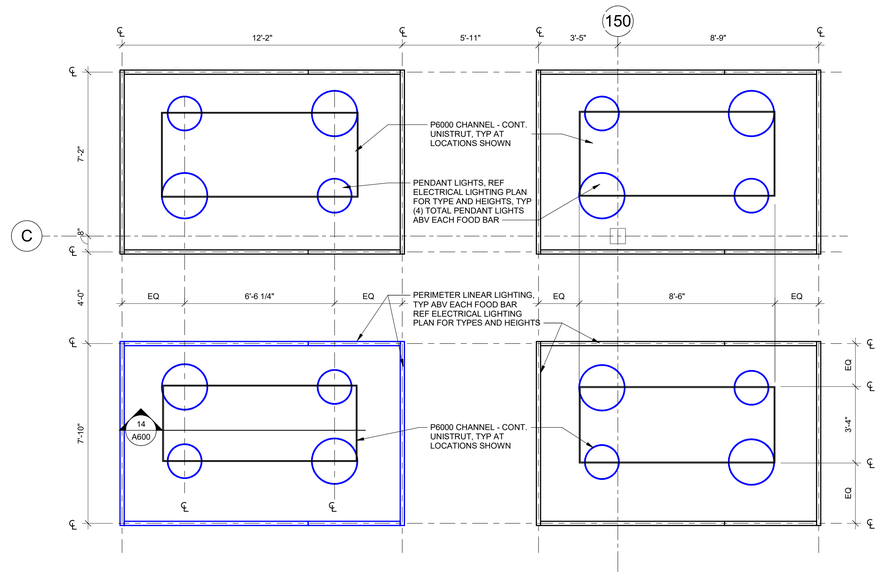
11 WINDOW SECTION AT CHILLED FRUITS AND VEGETABLES

3" = 1'-0"



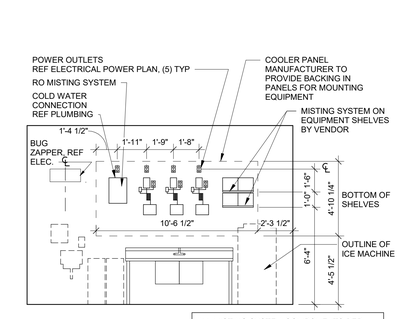
14 PENDANT LIGHTING UNISTRUT

3" = 1'-0"



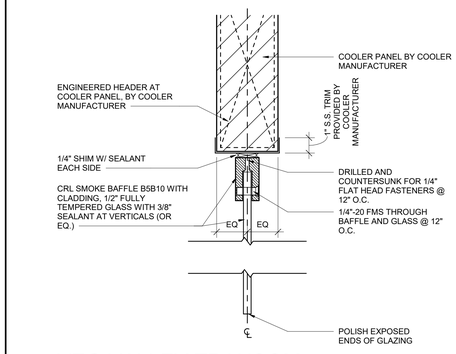
12 LIGHTING PLAN AT FOOD BARS

3/8" = 1'-0"



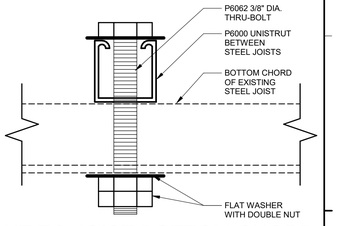
10 CRISPER ELEVATION

1/4" = 1'-0"



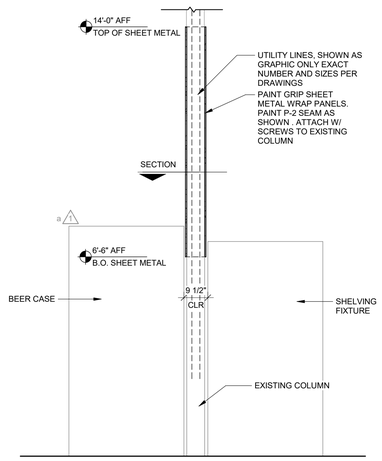
9 VEG VALLEY TRANSOM

3" = 1'-0"



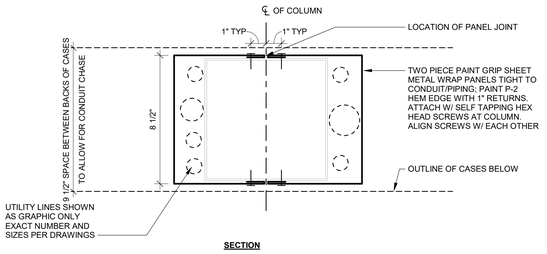
7 UNISTRUT TO JOIST BOTTOM CHORD

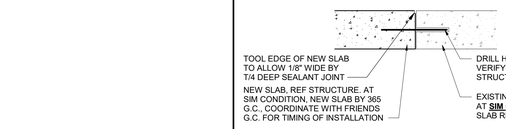
6" = 1'-0"



6 PIPE CHASE

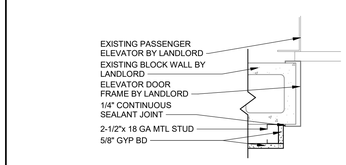
1/2" = 1'-0"





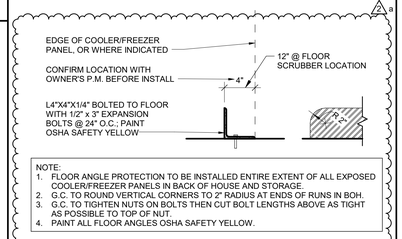
5 SLAB TIE IN

1 1/2" = 1'-0"



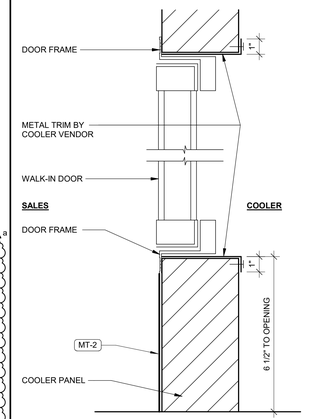
4 EDGE DETAIL AT ELEVATOR OPENING

1 1/2" = 1'-0"



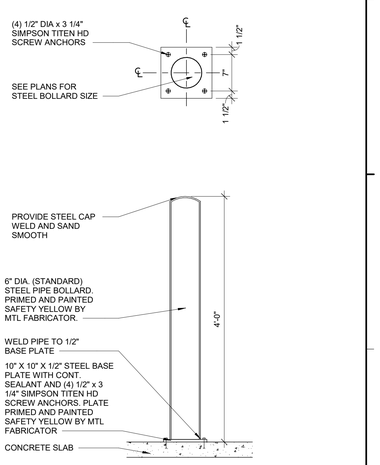
3 FLOOR ANGLE PROTECTION

1 1/2" = 1'-0"



HEAD & BASE OF WALK-IN REACH-IN DOORS

3" = 1'-0"



1 INTERIOR BOLLARD DETAIL

1" = 1'-0"

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

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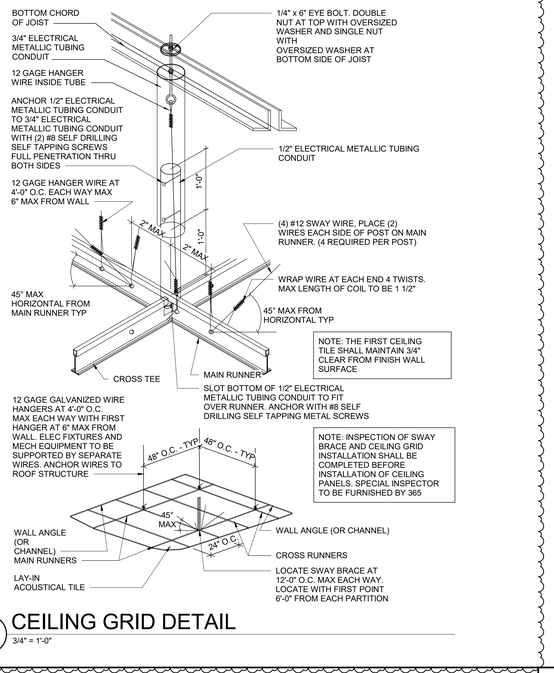
Drawn by: ARL
Document date: 01/29/18
Template date:

Project No. 62911019

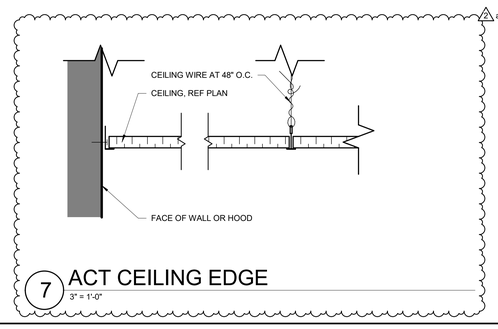
Professional Seal

Sheet Title: INTERIOR DETAILS

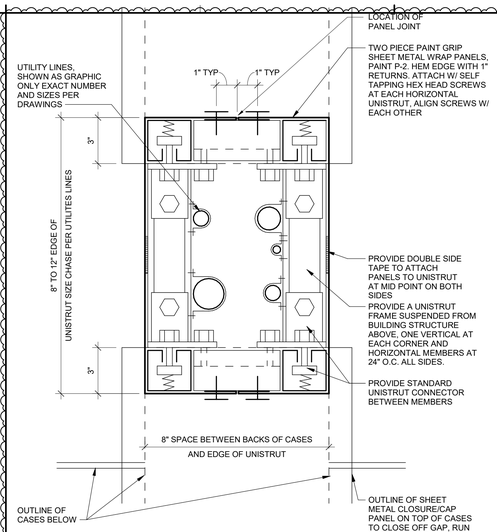
Sheet No. A600



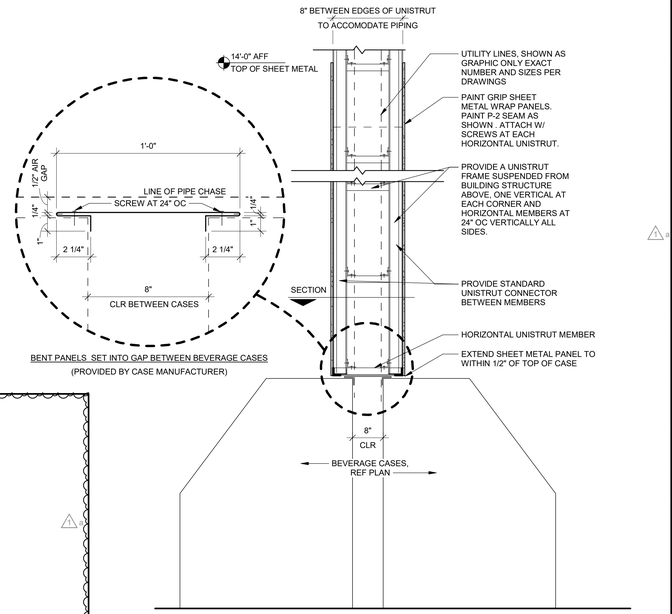
8 CEILING GRID DETAIL
3/4" = 1'-0"



7 ACT CEILING EDGE
3" = 1'-0"

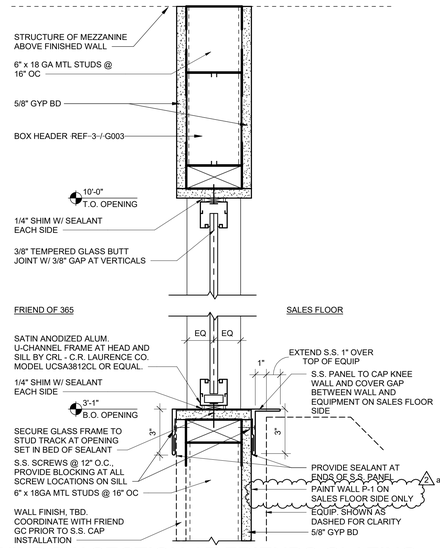


SECTION VIEW

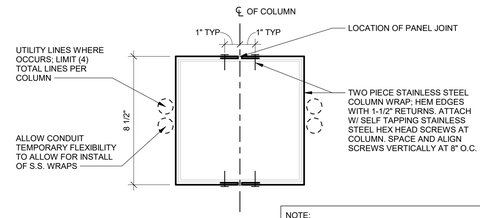


BENT PANELS SET INTO GAP BETWEEN BEVERAGE CASES (PROVIDED BY CASE MANUFACTURER)

9 PIPE CHASE
3/4" = 1'-0"

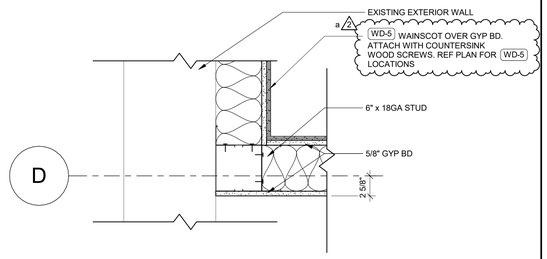


6 WINDOW SECTION AT FRIENDS GLAZING
3" = 1'-0"

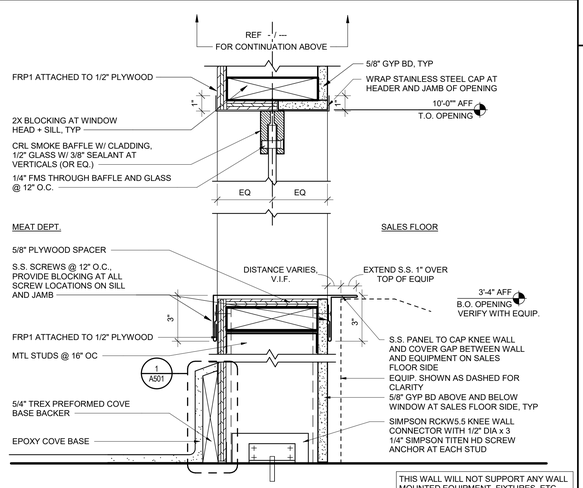


NOTE:
1. COLUMN WRAPS TO BE INSTALLED UP TO 48" AFF ON SALES FLOOR ONLY.
2. COLUMN WRAPS IN COOLERS/FREEZERS AND PREP SPACES TO BE FULL HEIGHT TO CEILING

5 S.S. COLUMN WRAPS
3" = 1'-0"



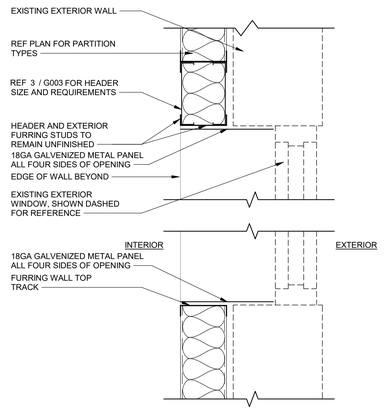
4 WALL CORNER AT EXISTING WALL
1 1/2" = 1'-0"



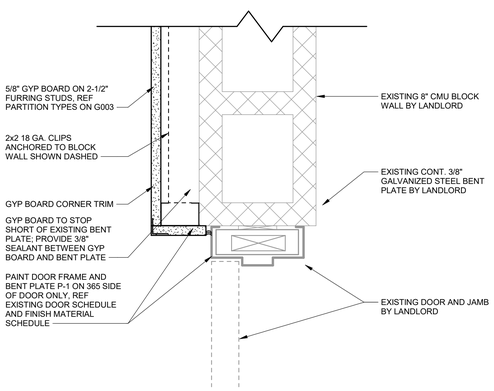
THIS WALL WILL NOT SUPPORT ANY WALL MOUNTED EQUIPMENT, FIXTURES, ETC.

REF 9 / G003 FOR FRAMING FOR BOTTOM PART OF WALL

3 WALL AT MEAT DEPT.
3" = 1'-0"



2 HEAD & SILL AT EXIST. OPENING
1 1/2" = 1'-0"



1 WALL @ EXISTING CMU DOOR JAMB
3" = 1'-0"

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
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Sheet Title
INTERIOR DETAILS

Sheet No.
A601

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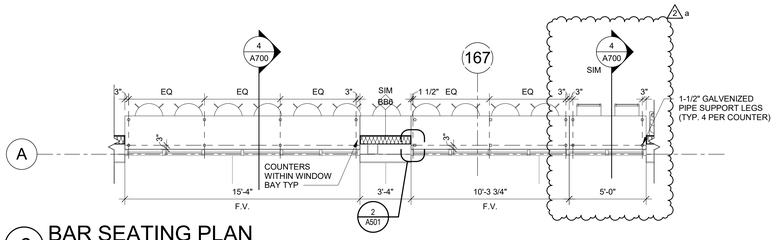
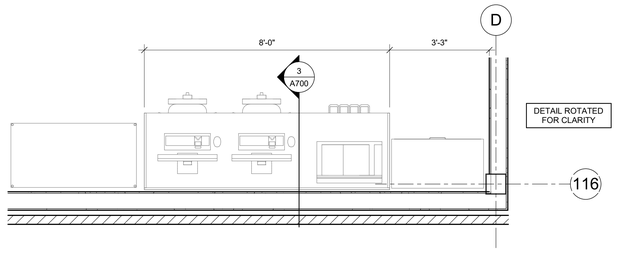


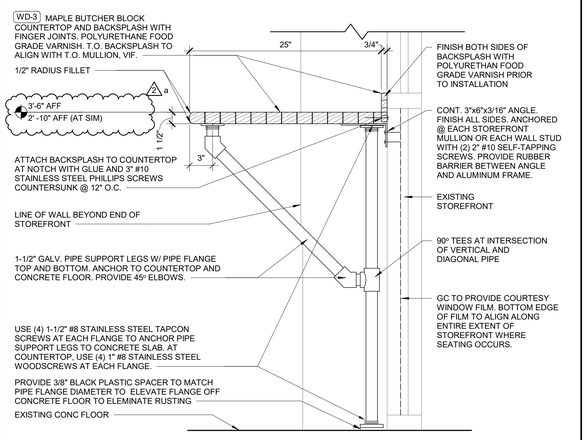
6 BAR SEATING PLAN
1/4" = 1'-0"



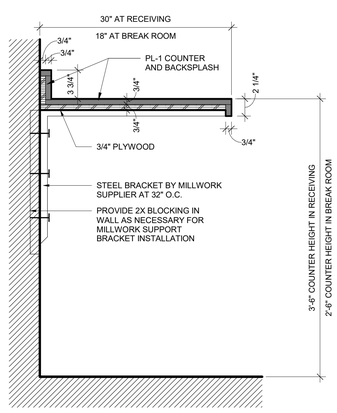
5 RECIEVING DESK PLAN
1/2" = 1'-0"

SHEET NOTES

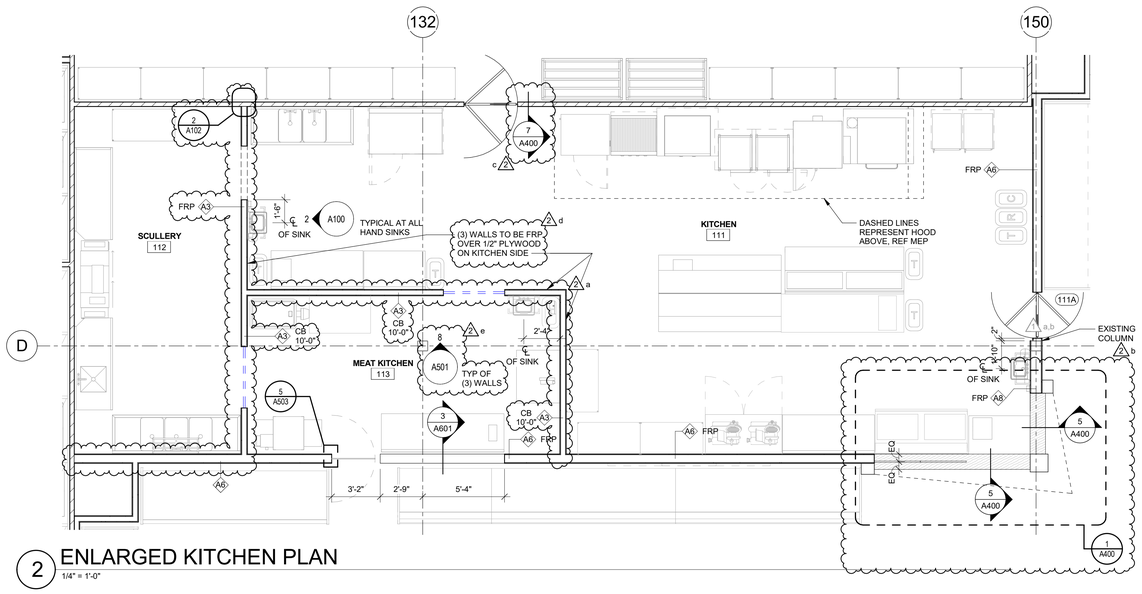
1. REFER TO FIXTURE PLAN & EQUIPMENT SCHEDULE SHEETS FOR EQUIPMENT AND FIXTURE INFORMATION.
2. DIMENSIONS TAKEN FROM FINISHED FACE OF WALL.
3. VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT IF DIMENSIONS ARE NOT ACCURATE
4. WHERE INSTALLING FURRING AND GYPSUM BOARD ON MASONRY WALLS, INSTALL CONTROL JOINTS IN GYPSUM BOARD AT ALL MASONRY CONTROL JOINTS. AT ALL OTHER GYPSUM BOARD WALLS, INSTALL CONTROL JOINTS AT MAX 30'-0" O.C. AND AT TRANSITIONS BETWEEN HORIZONTAL AND VERTICAL GYPSUM BOARD SHEATHING PLANE, AS WELL AS OPENINGS GREATER THAN 4'-0" IN ANY DIRECTION.REF 7 / G003.
5. WHERE TOP TRACKS MEET, REF 4 / G003 FOR TOP TRACK SPLICING DETAIL.
6. FOR FURRED WALL CONDITIONS AT EXISTING DOORS AND STOREFRONT GLAZING, REF 3 / A503 AND REF 4 / A503
7. LOCATE DOORS IN GYP. BD. WALLS 4" AWAY FROM CORNER OF GYP. BD. FACE, UNLESS NOTED OTHERWISE. REF 1B / A503.
8. PROVIDE PROTECTION FOR CONDENSATE PIPES, DRAIN LINES AND FLOOR DRAINS, REF PLUMBING AND REFRIGERATION DRAWINGS AND
9. DIMENSIONS AT STOREFRONT OPENINGS ARE FOR REFERENCE. G.C. TO VERIFY IN FIELD ACTUAL SIZE OPENING.
10. COOLER AND FREEZER PANEL PARTITIONS ARE IDENTIFIED WITH A HATCH. REFER TO LEGEND ON A102, FOR SPECIFIC PLACEMENT OF COOLER AND FREEZER PANELS.
11. FINISH ALL END OF WALLS WITH 5/8" GYP BD THAT FACE MEZZANINE ABV COOLER BOXES



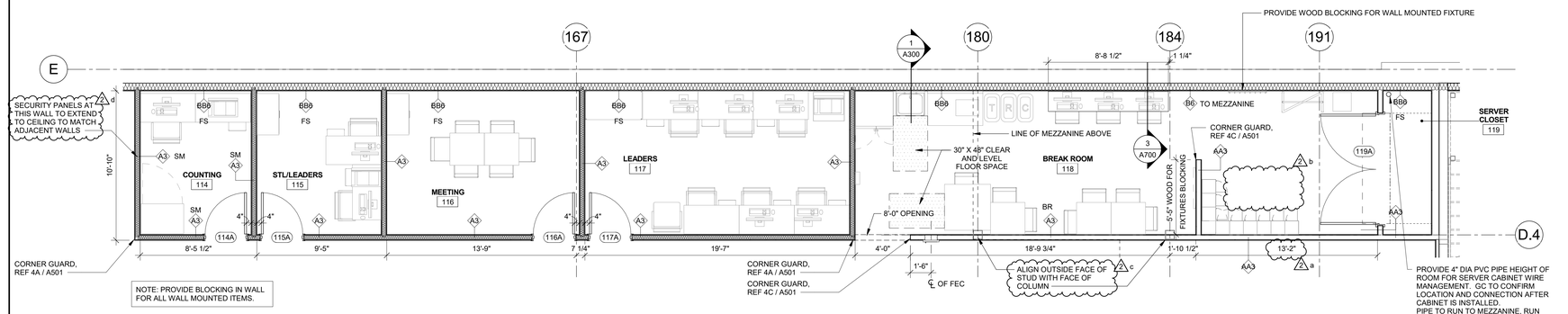
4 SEATING COUNTERTOP
1 1/2" = 1'-0"



3 RAISED WORK COUNTER
1 1/2" = 1'-0"



2 ENLARGED KITCHEN PLAN
1/4" = 1'-0"



1 ENLARGED OFFICE/BREAK ROOM PLAN
1/4" = 1'-0"

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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365 WHOLE FOODS MARKET

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Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
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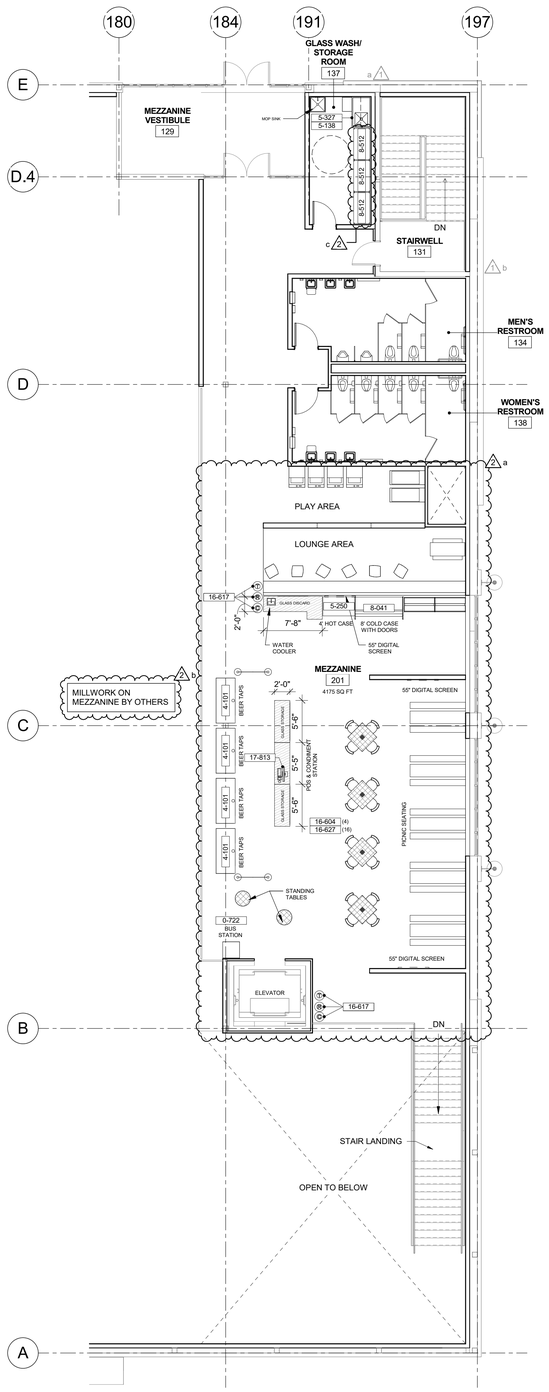
Sheet Title
ENLARGED PLANS AND DETAILS

Sheet No.
A700



1 MEZZANINE FIXTURE PLAN AND GENERAL CLEARANCES

1/8" = 1'-0"

SHEET NOTES

1. REFER TO A0.2 FOR EQUIPMENT SCHEDULE INFORMATION.
2. SEE MEP DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EQUIPMENT.
3. REGARDING FURNISH AND INSTALL INSTRUCTIONS FOR EQUIPMENT AND FURNITURE, REF. RESPONSIBILITY MARIX ON SHEET G001.
4. REFER TO EQUIPMENT CUTSHEETS AND FURNITURE VENDOR DRAWINGS FOR INSTALL INSTRUCTIONS AND DIRECTION. COORDINATE WITH 365 REPRESENTATIVE FOR CUTSHEET INFORMATION.
5. REFER TO A700 SHEET FOR ADDITIONAL INFORMATION REGARDING MILLWORK.
6. DIMENSIONS NOTED AS 'HOLD' OR 'CLEAR' ARE TO BE PRESERVED FOR REQUIRED CLEARANCES.
7. PROVIDE ADEQUATE CLEARANCES BEHIND REFRIGERATED CASES, PER MANUFACTURER'S EQUIPMENT CUTSHEETS. COORDINATE WITH 365 REPRESENTATIVE FOR CUTSHEET INFORMATION.
8. PROVIDE BLOCKING, AS REQUIRED, FOR REFRIGERATION EQUIPMENT AND ARTWORK.

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ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Document date: 01/29/18
Template date:

Project No. 62911019

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Sheet Title
MEZZANINE FIXTURE PLAN

Sheet No.
A900

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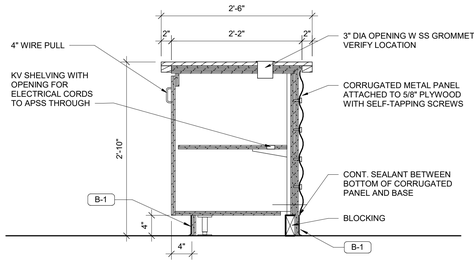
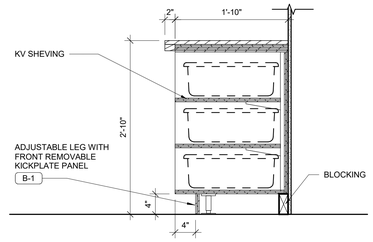
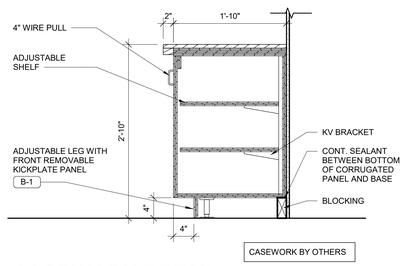


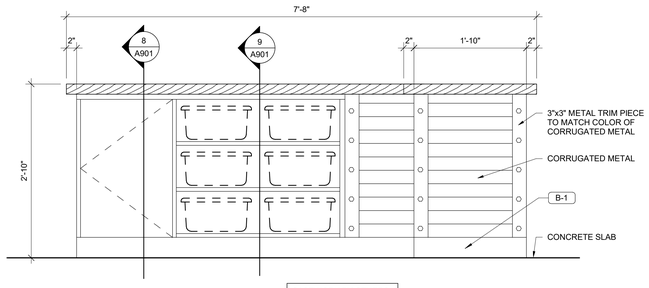
10 CASEWORK DETAIL
1" = 1'-0"



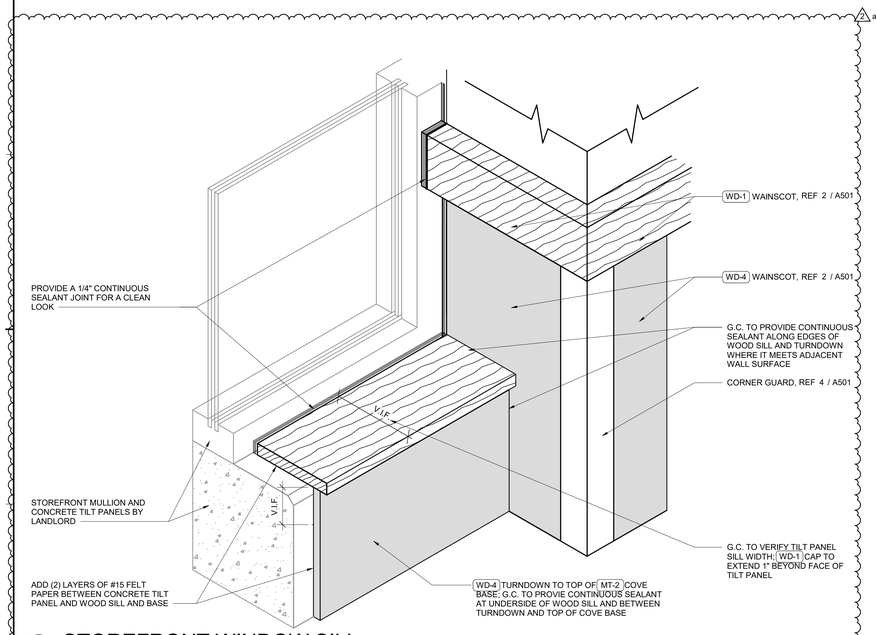
9 CASEWORK DETAIL
1" = 1'-0"



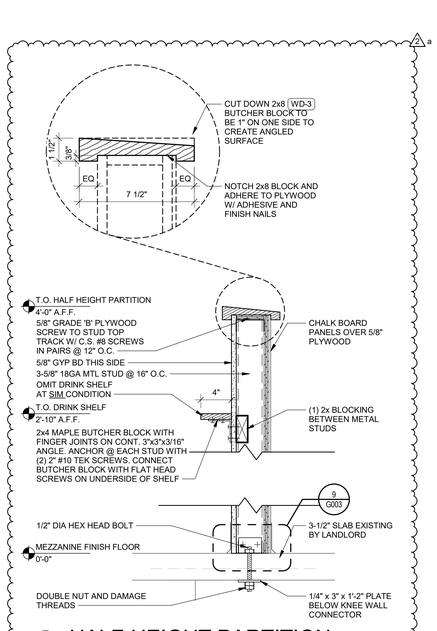
8 CASEWORK DETAIL
1" = 1'-0"



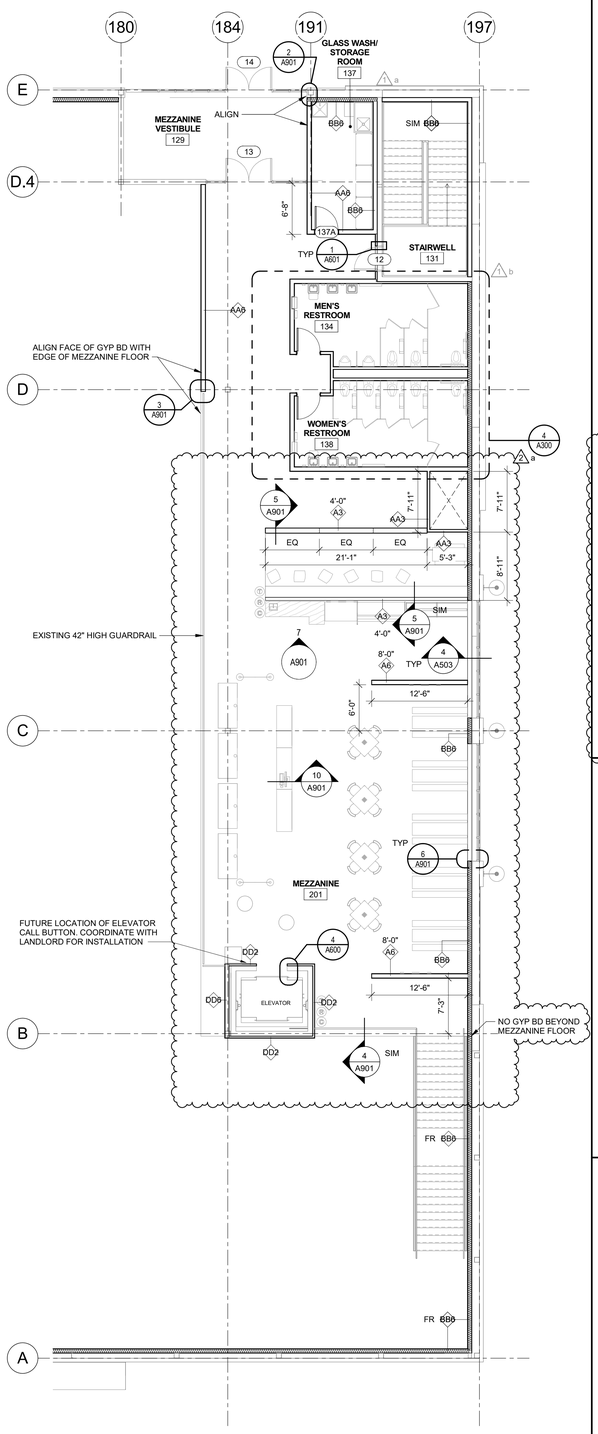
7 CASEWORK ELEVATION
1" = 1'-0"



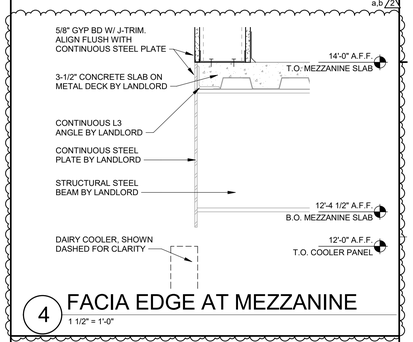
6 STOREFRONT WINDOW SILL
3" = 1'-0"



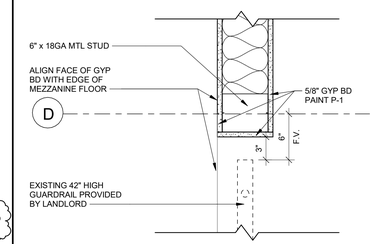
5 HALF-HEIGHT PARTITION
1 1/2" = 1'-0"



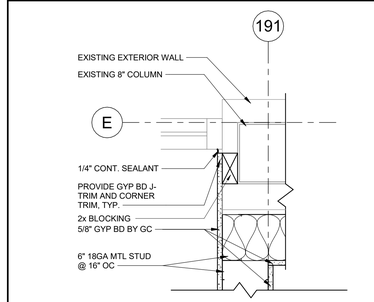
1 MEZZANINE FLOOR PLAN
1/8" = 1'-0"



4 FACIA EDGE AT MEZZANINE
1 1/2" = 1'-0"



3 MEZZANINE WALL AND GUARDRAIL CONDITION
1 1/2" = 1'-0"



2 EDGE CONDITION @ EXISTING WALL
1 1/2" = 1'-0"

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SHEET NOTES

1. REFER TO FIXTURE PLAN & EQUIPMENT SCHEDULE SHEETS FOR EQUIPMENT AND FIXTURE INFORMATION.
2. DIMENSIONS TAKEN FROM FINISHED FACE OF WALL.
3. VERIFY ALL EXISTING CONDITIONS. NOTIFY ARCHITECT IF DIMENSIONS ARE NOT ACCURATE
4. WHERE INSTALLING FURRING AND GYPSUM BOARD ON MASONRY WALLS, INSTALL CONTROL JOINTS IN GYPSUM BOARD AT ALL MASONRY CONTROL JOINTS. AT ALL OTHER GYPSUM BOARD WALLS, INSTALL CONTROL JOINTS AT MAX 30'-0" O.C. AND AT TRANSITIONS BETWEEN HORIZONTAL AND VERTICAL GYPSUM BOARD SHEATHING PLANE, AS WELL AS OPENINGS GREATER THAN 4'-0" IN ANY DIRECTION, REF 7 / G003
5. WHERE TOP TRACKS MEET, REF 4 / G003 FOR TOP TRACK SPLICING DETAIL.
6. FOR FURRED WALL CONDITIONS AT EXISTING DOORS AND STOREFRONT GLAZING, REF 3 / A503 AND REF 4 / A503
7. LOCATE DOORS IN CYP. BD. WALLS 4" AWAY FROM CORNER OF GYP. BD. FACE, UNLESS NOTED OTHERWISE, REF 1B / A503.
8. PROVIDE PROTECTION FOR CONDENSATE PIPES, DRAIN LINES AND FLOOR DRAINS, REF PLUMBING AND REFRIGERATION DRAWINGS AND REF 3 / A600
9. DIMENSIONS AT STOREFRONT OPENINGS ARE FOR REFERENCE. G.C. TO VERIFY IN FIELD ACTUAL SIZE OPENING.
10. COOLER AND FREEZER PANEL PARTITIONS ARE IDENTIFIED WITH A HATCH. REFER TO LEGEND ON A102, FOR SPECIFIC PLACEMENT OF COOLER AND FREEZER PANELS.
11. FINISH ALL END OF WALLS WITH 5/8" GYP BD THAT FACE MEZZANINE ABV COOLER BOXES

brr
ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044
Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

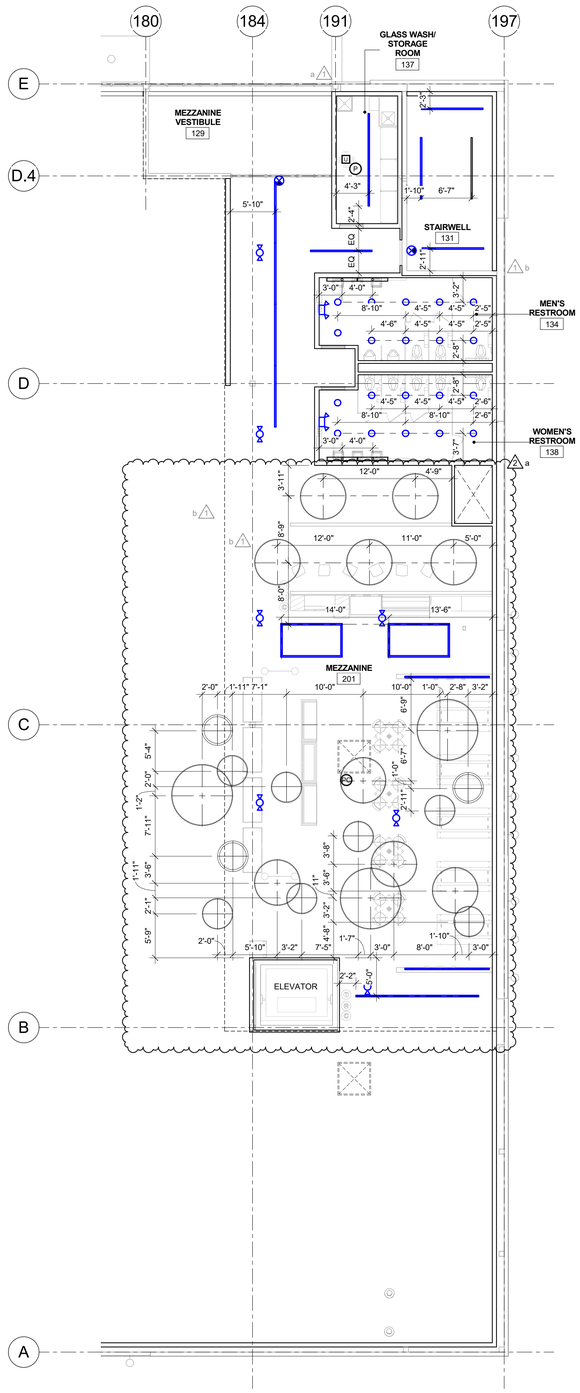
Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

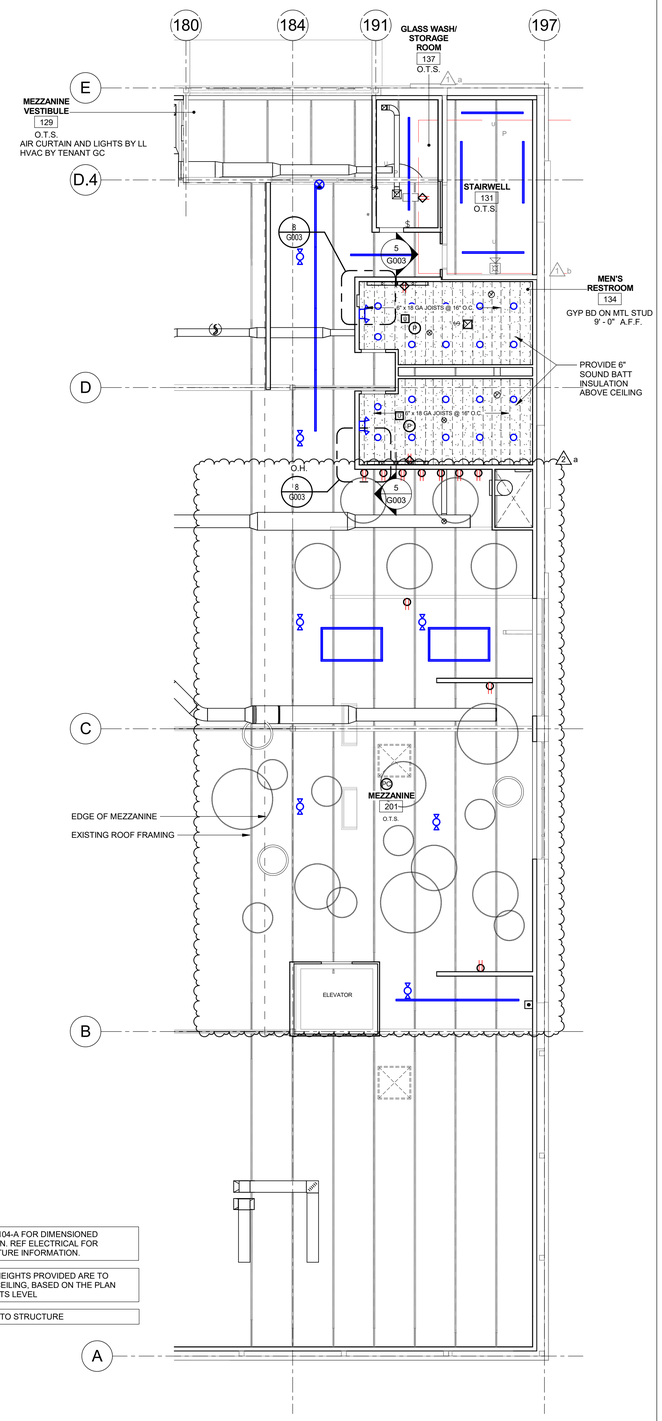
365 BY WHOLE FOODS MARKET

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title: MEZZANINE FLOOR PLAN
Sheet No. A901



2 MEZZANINE LIGHTING PLAN
1/8" = 1'-0"



REF SHEET A104-A FOR DIMENSIONED LIGHTING PLAN. REF ELECTRICAL FOR LIGHTING FIXTURE INFORMATION.

ALL CEILING HEIGHTS PROVIDED ARE TO BOTTOM OF CEILING, BASED ON THE PLAN SHOWN AND ITS LEVEL

O.T.S.= OPEN TO STRUCTURE

1 MEZZANINE REFLECTED CEILING PLAN
1/8" = 1'-0"

SHEET NOTES

1. PLAN IS SHOWN FOR OVERHEAD COORDINATION ONLY. REFER TO LIGHTING PLAN AND MEP-R SHEETS FOR ADDITIONAL INFORMATION.
2. FOR HEIGHTS OF UTILITIES, REF 2 / A103
3. ALL NEW EXPOSED DUCT WORK AND CONDUIT TO REMAIN UN-PAINTED U.N.O.
4. REF MECHANICAL FOR ALL HOOD LOCATIONS. HOODS SHOWN ARE FOR REFERENCE ONLY.
5. REGARDING LOCATIONS OF FIRE STROBES, HORNS, PULL STATIONS, ETC. - REFER TO ELECTRICAL AND FIRE PROTECTION DRAWINGS.
6. REF A501 FOR MATERIAL FINISH INFORMATION.

FIRE PROTECTION LEGEND

- CEILING MOUNTED VISIBLE NOTIFICATION, REF FIRE PROTECTION
- CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION, REF FIRE PROTECTION
- WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION, REF FIRE PROTECTION
- BELL, REF FIRE PROTECTION

LEGEND

- GYPSUM BOARD CEILING
- LIGHT FIXTURES, REF ELECTRICAL
- EXIT SIGN, REF ELECTRICAL
- EMERGENCY BATTERY PACK LIGHT, REF ELECTRICAL

ROOF STRUCTURE LEGEND

- EXISTING SKYLIGHT

LEGEND

- LIGHT FIXTURES, REF ELECTRICAL
- UPLIGHTING FIXTURES SHOWN DASHED, MOUNT TO TOP OF CEILING , TYP
- EXIT SIGN, REF ELECTRICAL
- EMERGENCY BATTERY PACK LIGHT, REF ELECTRICAL

brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 200
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:

Project No. 62911019

Professional Seal

Sheet Title
MEZZANINE REFLECTED CEILING PLAN AND LIGHTING PLAN

Sheet No. A902

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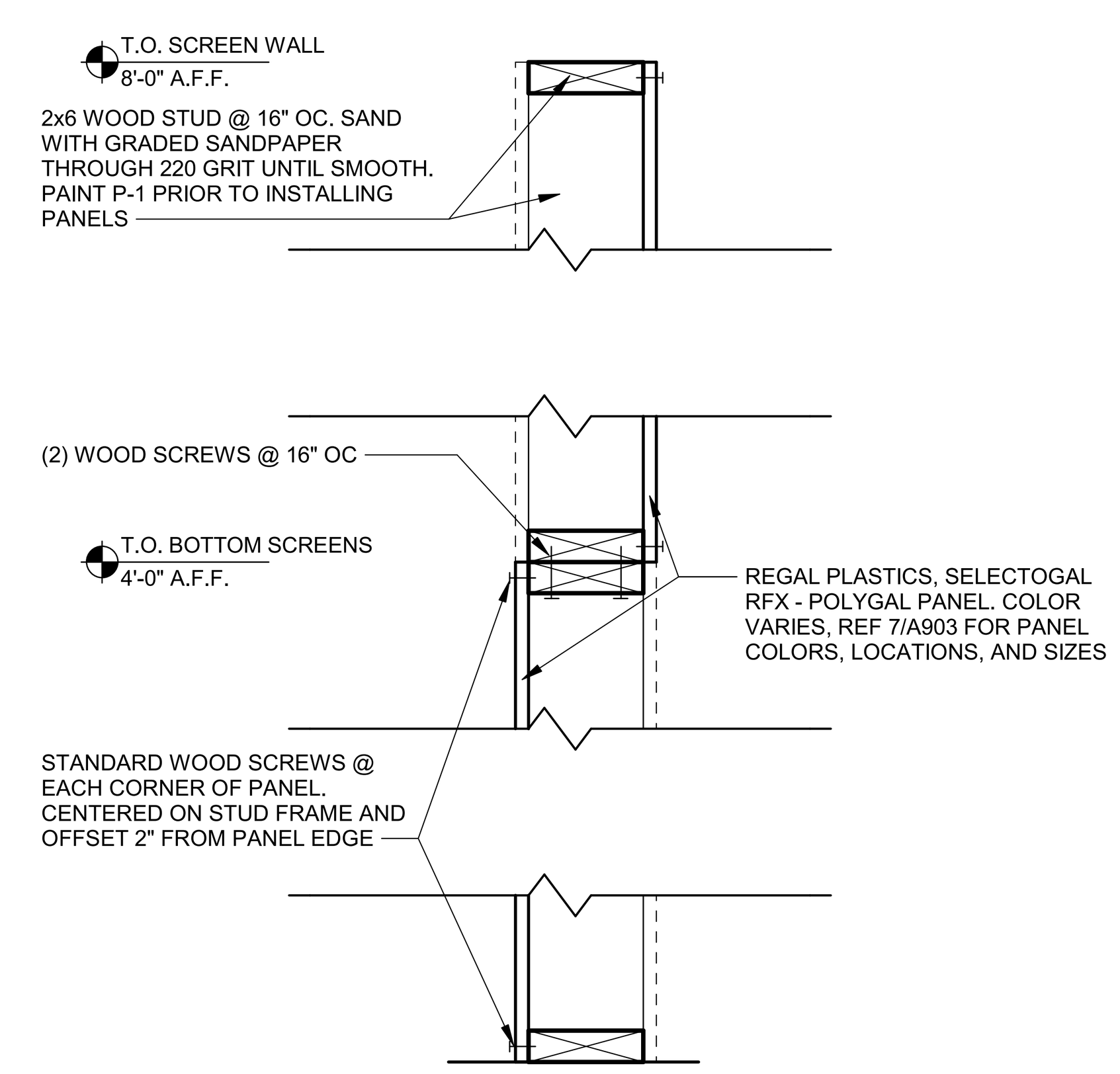
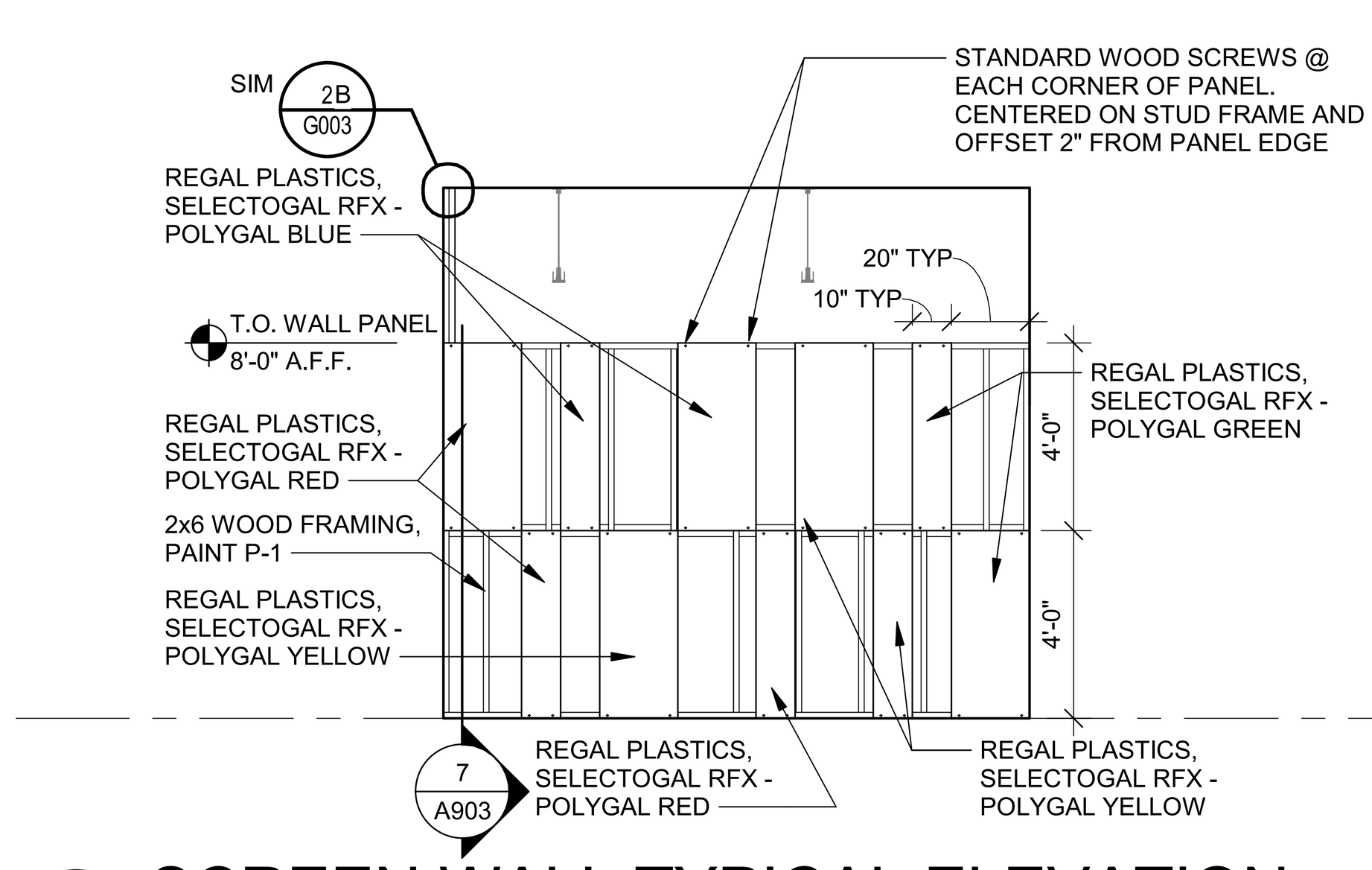
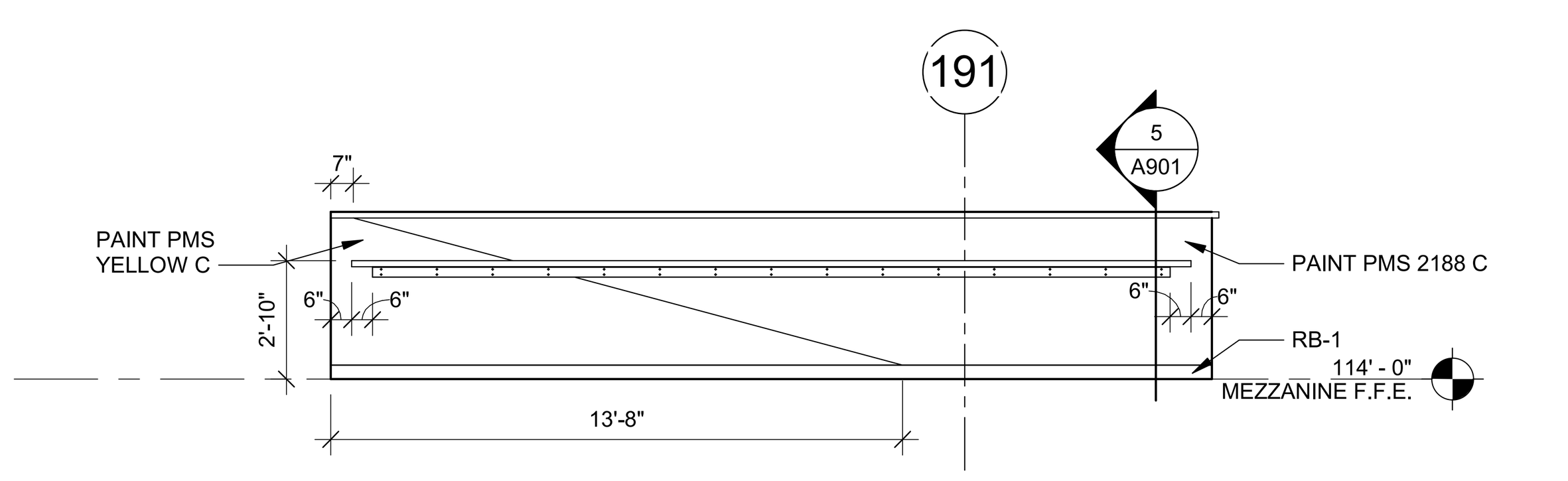


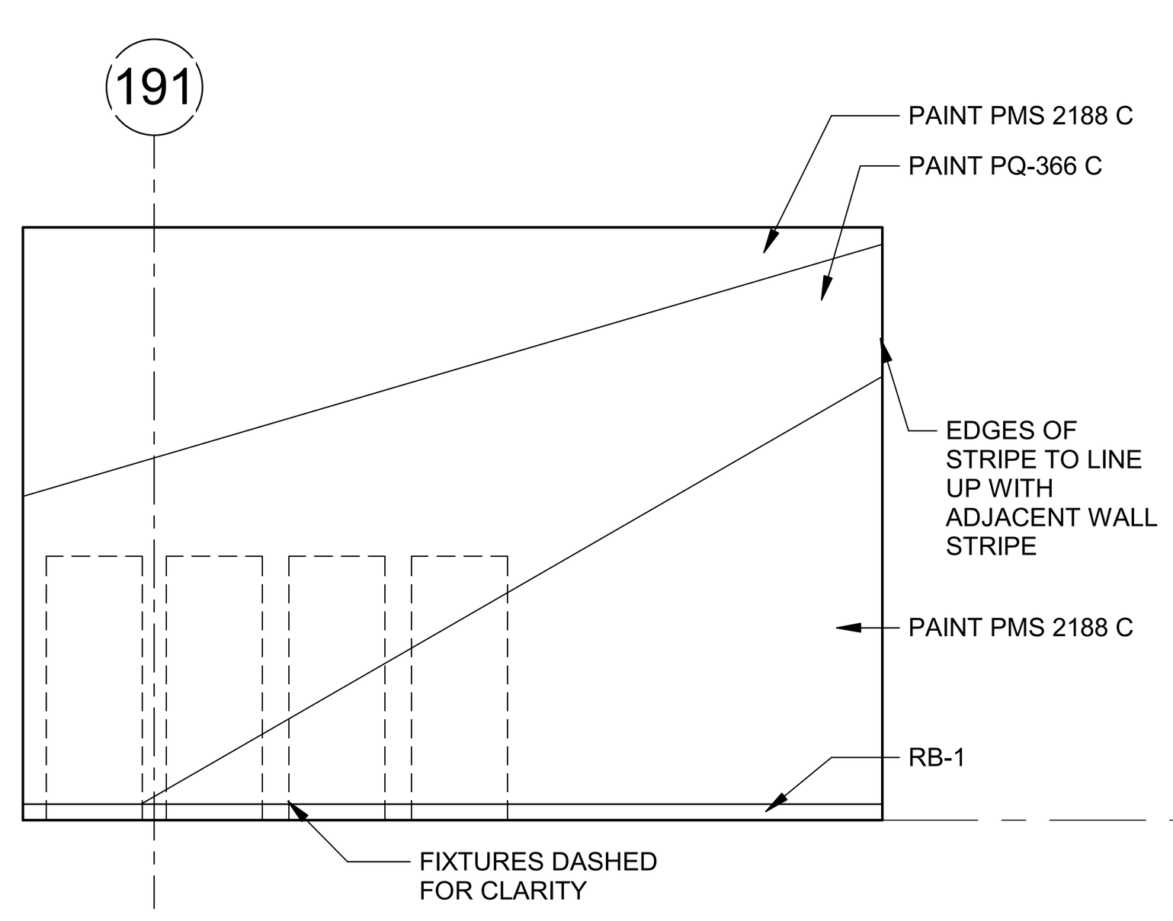
7 SCREEN WALL SECTION
1 1/2" = 1'-0"



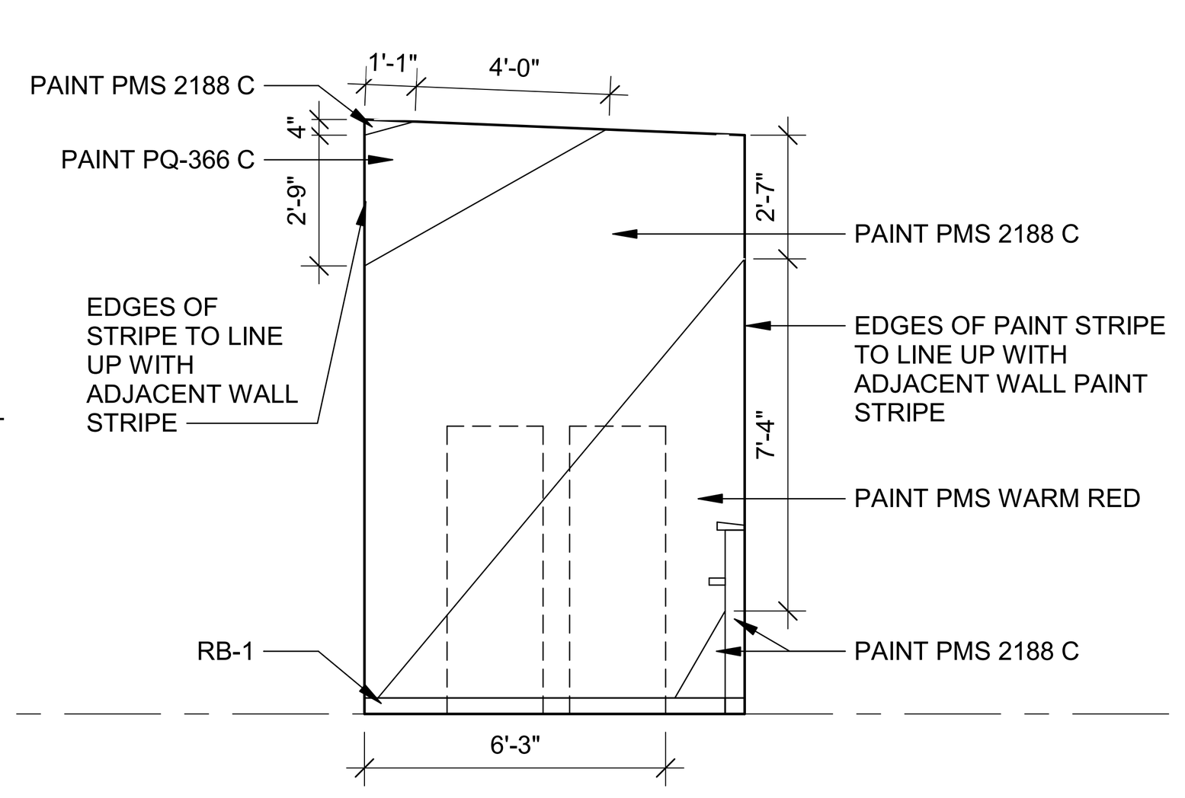
6 SCREEN WALL TYPICAL ELEVATION
1/4" = 1'-0"



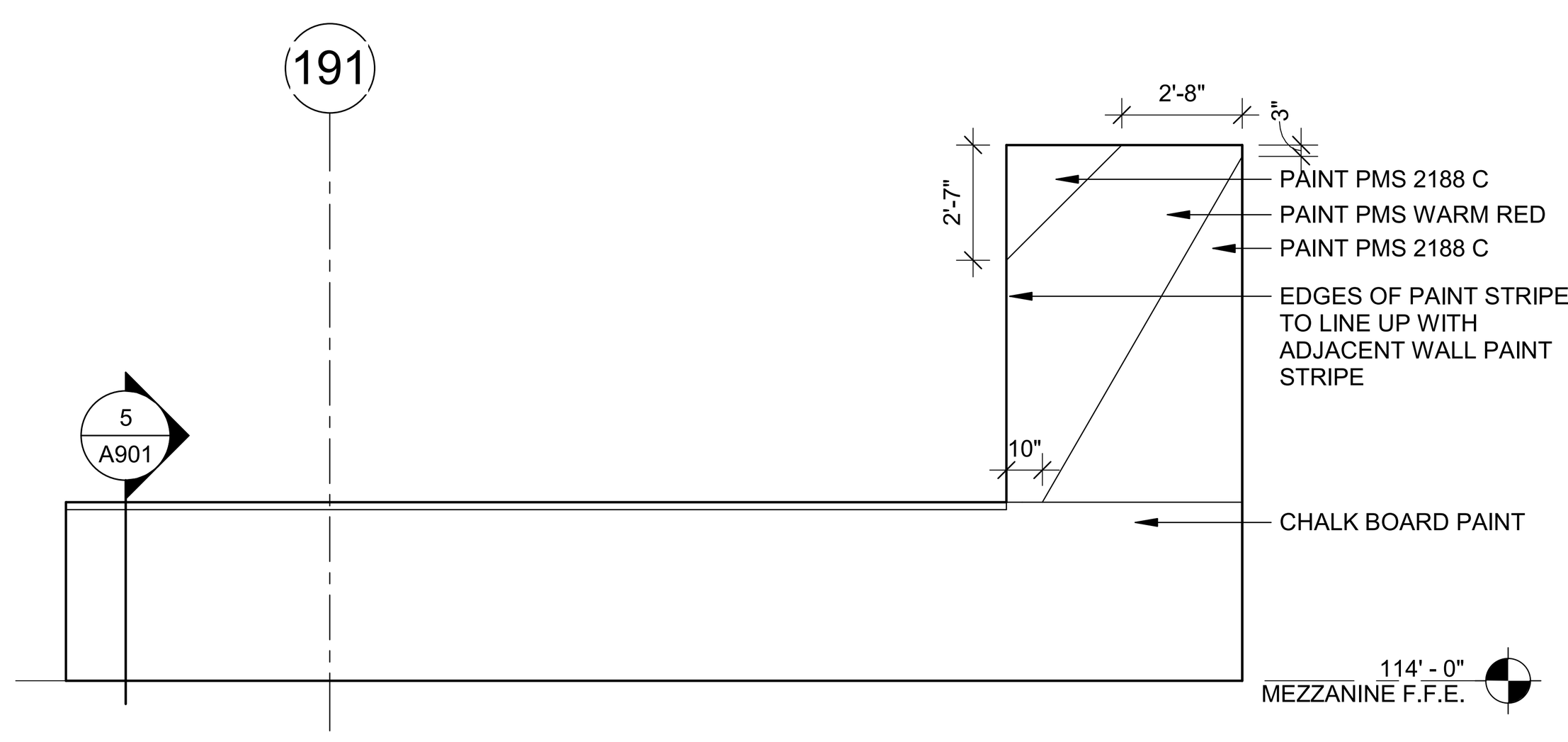
5 KIDS AREA SOUTH WALL ELEVATION
1/4" = 1'-0"



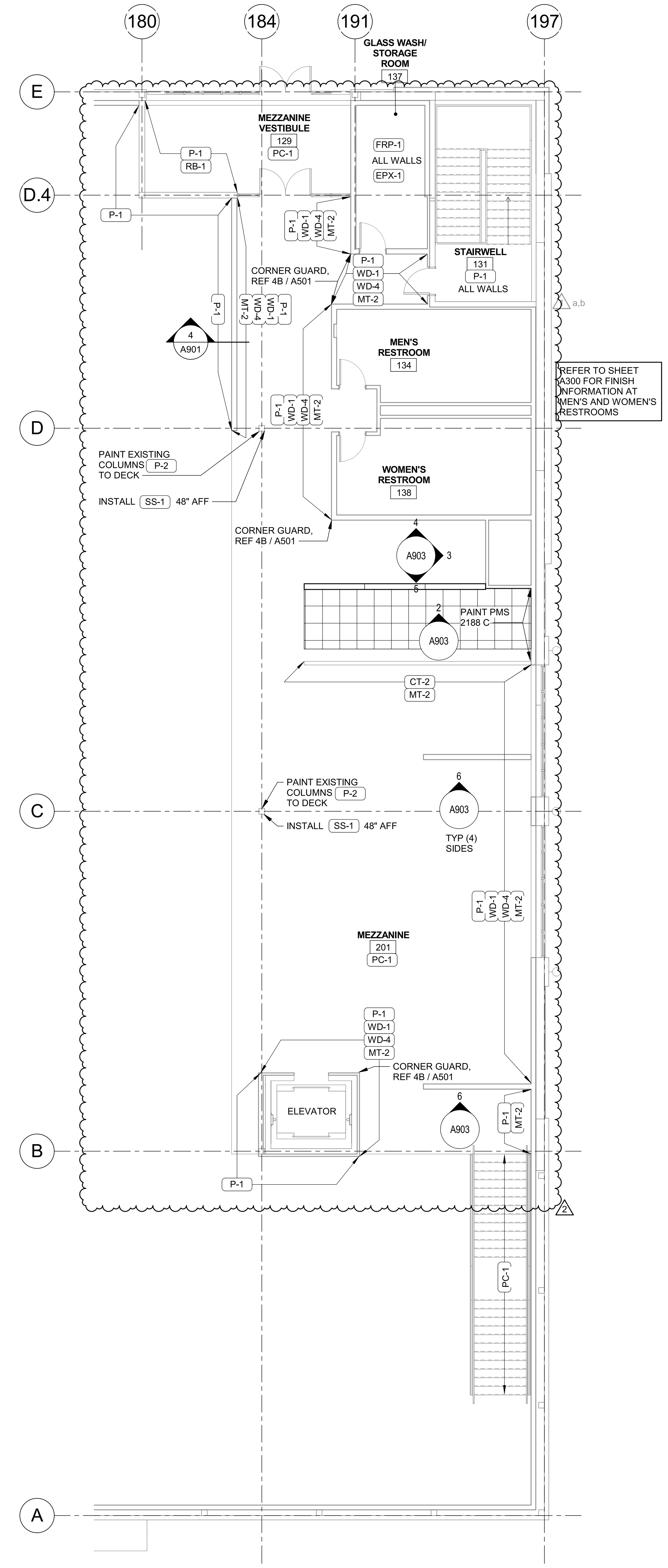
4 KIDS AREA NORTH WALL ELEVATION
1/4" = 1'-0"



3 KIDS AREA EAST WALL ELEVATION
1/4" = 1'-0"



2 CHALKBOARD WALL ELEVATION
1/4" = 1'-0"



1 MEZZANINE FINISH PLAN
1/8" = 1'-0"

SHEET NOTES

1. REFER FINISH AND MATERIALS LEGEND SHEET (A501) FOR FINISH INFORMATION
2. ALL GYPSUM WALL SURFACES TO BE PAINTED P-1, U.N.O.
3. ALL EXPOSED STRUCTURAL STEEL COLUMNS TO BE P-2.
4. ALL WALL BASES TO BE MT-2, U.N.O.
5. ALL FLOORING TO BE PC-1, U.N.O.
6. SOFFITS/GYP CEILINGS TO BE PAINTED P-1, U.N.O.
7. REFER INTERIOR ELEVATION FOR ADDITIONAL WALL FINISH INFORMATION.
8. REFER A501 FOR ADDITIONAL INTERIOR DETAILS
9. FREEZER SLAB TO RECEIVE NON-SLIP GRIT BROADCAST AND SEALED, REF SPECS
10. ALL ELECTRICAL PANELS TO RECEIVE FLOOR STRIPPING 4'-0" IN FRONT OF PANEL FOR ENTIRE WIDTH OF PANEL. REF ELECTRICAL PLAN FOR PANEL LOCATIONS.
11. PAINT ALL ACCESS PANELS TO MATCH ADJACENT WALL FINISH U.N.O. ACCESS PANELS IN THE RESTROOMS ARE TO BE STAINLESS STEEL.
12. ALL BOH OUTSIDE CORNERS TO RECEIVE CORNER GUARDS UP TO 4'-0 AFF, REF 4 / A501
13. COOLER / FREEZER MANUFACTURER TO PROVIDE WALL AND CEILING FINISHES UNO
14. FOR TYPICAL EPOXY BASE DETAIL IN COOLERS RECEIVING EPX-1, REF 1 / A501
15. FOR WD-4 WAINSCOT INSTALLATION, REF 2 / A501
16 RUN WAINSCOT AND BASE BEHIND BASES/FIXTURES 6" FROM EDGES, DO NOT RUN BEHIND ENTIRE CASE OR FIXTURE. TERMINATE WD-4 AT END PANEL OF CASE, DO NOT RUN BEHIND CASE.
17 INSTALL SS-1 AT ALL REVEALS ON SIDES AND TOP OF CASES AGAINST THE WALL AND PROVIDE CONT. SEALANT. ATTACH TO WALL, NOT CASE U.N.O.
18. ADD SLOPE USING BUILT UP EPOXY AS NOTED ON FINISH PLAN

brr

ARCHITECT OF RECORD:
BOYD W. RAU
6700 ANTIOCH PLAZA
SUITE 300
MERRIAM, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Project Manager: YC
Checked By:
Drawn by: ARL
Document date: 01/29/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
MEZZANINE FINISH PLAN

Sheet No.
A903

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STRUCTURAL GENERAL NOTES

1.0 DESIGN:

1. ALL DESIGN AND CONSTRUCTION WORK FOR THIS PROJECT SHALL CONFORM TO THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE (2012 IBC) WITH GEORGIA AMENDMENTS.
2. DESIGN LOADS:
   - A. ROOF LOADS:
   - LIVE LOAD.....20 PSF (REDUCIBLE PER CODE, PER DEVELOPER DRAWINGS)
   - GROUND SNOW LOAD (SNOW DRIFTING ADDITIONAL).....5 PSF
   - RISK CATEGORY.....II
   - B. WIND LOAD:
   - WIND SPEED.....115 MPH
   - WIND EXPOSURE.....B
   - C. SEISMIC:
   - SPECTRAL RESPONSE COEFFICIENT.....SDS = 0.199
   - SPECTRAL RESPONSE COEFFICIENT.....SD1 = 0.144
   - SITE CLASS .....D
   - SEISMIC DESIGN CATEGORY.....C
3. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION.
4. THE STRUCTURAL SEAL PROVIDED FOR THIS BUILDING SHALL COVER THE DESIGN OF THE STRUCTURAL ELEMENTS AND SYSTEMS SHOWN ON THESE DRAWINGS ONLY. JOHNSTON BURKHOLDER ASSOCIATES HAS NOT DESIGNED NOR REVIEWED THE DESIGN OF THE EXISTING BUILDING BEYOND WHAT IS AFFECTED BY NEW WORK AND ACCEPTS NO RESPONSIBILITY FOR THE STRUCTURAL ADEQUACY OF THE EXISTING BUILDING IN AREAS UNAFFECTED BY THE WORK SHOWN HEREIN.

2.0 CONSTRUCTION:

1. FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHOWN OR IMPLIED BY THESE DRAWINGS.
2. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND THE EXISTING CONDITIONS. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR EMBEDDED ITEMS NOT SHOWN HEREIN AND TO VERIFY SIZE AND LOCATION OF ALL OPENINGS. BEFORE EXECUTING WORK SHOWN HEREIN, THE CONTRACTOR SHALL EXAMINE ACTUAL JOB CONDITONS AND REPORT TO THE ENGINEER ANY ERROR, OMISSION OR DIFFICULTY AFFECTING THE WORK.
3. THE GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OR BRACING DURING CONSTRUCTION TO RESIST FORCES SUCH AS WIND, SEISMIC AND UNBALANCED LOADING DUE TO CONSTRUCTION.
4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING BUILDING DURING CONSTRUCTION.

3.0 CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE STANDARD BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND THE LATEST APPLICABLE RECOMMENDATIONS OF THE ACI MANUAL OF STANDARD PRACTICE
2. MATERIALS SHALL CONFORM WITH:
   - A. CEMENT - ASTM C150 TYPE I OR II
   - B. AGGREGATE - ASTM C33
   - C. WATER - POTABLE
3. ALL CONCRETE USED IN THE WORK SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE (F'C) STRENGTHS AT 28 DAYS:
   - A. WALLS AND SLABS-ON-GRADE.....4000 PSI
4. UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS, PROVIDE CONCRETE WITH 4"+-1" SLUMP.
5. CHLORIDE IN ANY FORM OR CONCENTRATION SHALL NOT BE ADDED TO ANY CONCRETE.

4.0 CAST-IN-PLACE CONCRETE-EXECUTION:

1. ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS "UNREINFORCED". REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME STEEL AS SHOWN IN SIMILAR SECTIONS. COMPLY WITH ACI 304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE".
2. COLD WEATHER CONDITIONS: WHEN AIR TEMPERATURE HAS FALLEN TO OR IS EXPECTED TO FALL BELOW 40 DEG F, ALL CONCRETE PLACEMENT SHALL COMPLY WITH THE PROVISIONS OF ACI 306 AND AS HEREIN SPECIFIED. PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS, OR LOW TEMPERATURES.
3. HOT WEATHER CONDITIONS: WHEN AIR TEMPERATURE EXCEEDS 90 DEG F, ALL CONCRETE SHALL COMPLY WITH THE PROVISIONS OF ACI 305 AND AS HEREIN SPECIFIED.
4. PERFORM CURING OF CONCRETE BY CURING AND SEALING COMPOUND, BY MOIST CURING, MOISTURE-RETAINING COVER CURING, OR BY COMBINATIONS THEREOF.
5. MAINTAIN MINIMUM CONCRETE COVERAGE FOR REINFORCING AS INDICATED UNLESS OTHERWISE NOTED IN THE DRAWINGS:
   - A. EARTH FORMED/CAST DIRECTLY AGAINST SOIL.....3 IN
   - B. CAST AGAINST FORMS BUT EXPOSED TO EARTH OR WEATHER:
   - #6 AND LARGER.....2 IN
   - #5 AND SMALLER.....1 1/2 IN
   - C. SLABS AND WALLS NOT EXPOSED TO EARTH/WEATHER.....3/4 IN
   - D. OTHER.....1 1 /2 IN
6. ALL VERTICAL STEEL AND CONTINUOUS STEEL SHALL BE LAP SPLICED USING CLASS B SPLICES, PER ACI 318, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
7. CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE AS SHOWN ON THE DRAWINGS. WHERE NOT SHOWN, LIMIT CONTROLLED AREAS TO NOT MORE THAN 13 FEET ON ANY SIDE. DO NOT INTERCHANGE CONSTRUCTION AND SAW JOINTS WHERE A PARTICULAR JOINT DETAIL IS SPECIFIED ON THE DRAWINGS. A SAW JOINT MUST TERMINATE AT A CONSTRUCTION JOINT.
8. COORDINATE CONCRETE FINISHES, RECESSED AREAS, REVEALS, EMBEDDED ITEMS, SPECIAL JOINT PATTERNS, ETC. WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. PROVIDE A 3/4" CHAMFER AT ALL RAISED EXPOSED EDGES OF CONCRETE. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN CONCRETE.
9. NEITHER CUTTING NOR CORING OF CONCRETE SHALL BE ALLOWED. ALL OPENINGS IN CONCRETE SLABS AND WALLS SHALL BE REINFORCED WITH (1) #5 BAR (OPENING DIMENSION PLUS 2 FT, EACH SIDE) ALONG EACH SIDE OF OPENING, AND (1) #5 X 4'-0" DIAGONALLY AT EACH CORNER. REINFORCE ALL RE-ENTRANT CORNERS WITH (1) #5 X 4'-0" DIAGONALLY. ADD ADDITIONAL STEEL TO MATCH ABOVE FOR EACH LAYER OF STEEL SHOWN (SEE OPENING REINFORCEMENT AND RE-ENTRANT DETAIL 3-S001).
10. QUALITY CONTROL TESTING DURING CONSTRUCTION:
    - A. GENERAL: THE OWNER SHALL EMPLOY A TESTING LABORATORY TO PERFORM TESTS AND TO SUBMIT TEST REPORTS.
    - B. SAMPLING AND TESTING FOR QUALITY CONTROL DURING PLACEMENT OF CONCRETE SHALL INCLUDE THE FOLLOWING, AS DIRECTED BY THE OWNER'S FIELD REPRESENTATIVE.
    - C. SAMPLING FRESH CONCRETE: ASTM C 172, EXCEPT MODIFIED FOR SLUMB TO COMPLY WITH ASTM C94.
      1. SLUMP: ASTM C 143; ONE TEST AT POINT OF DISCHARGE FOR EACH DAYS POUR OF EACH TYPE OF CONCRETE; ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO HAVE CHANGED.
      2. AIR CONTENT: ASTM C 173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEGHT CONCRETE; ASTM C231 PRESSURE METHOD FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH DAYS POUR OF EACH TYPE OF AIR-ENTRAINED CONCRETE.
      3. CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F (4 DEG C) AND BELOW, WHEN 80 DEG F (27 DEG C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS IS MADE.
      4. COMPRESSION TEST SPECIMEN: ASTM C 31; ONE SET OF 4 STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST, UNLESS OTHERWISE DIRECTED. MOLD AND STORE CYLINDERS FOR LABORATORY-CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQURED.
      5. COMPRESSIVE STRENGTH TESTS: ASTM C 39; ONE SET FOR EACH DAYS POUR EXCEEDING 5 CU. YDS. PLUS ADDITIONAL SETS FOR EACH 150 CU. YDS. MORE THAN THE FIRST 25 CU. YDS. OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY; ONE SPECIMEN TESTED AT 7 DAYS, TWO SPECIMENS TESTED AT 28 DAYS, AND ONE SPECIMEN RETAINED IN RESERVE FOR LATER TESTING IF REQUIRED.
         - A. STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TEST RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH, AND NO INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.

5.0 REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.
2. ACCESSORIES SHALL BE AS SPECIFIED IN THE LATEST EDITION OF CONCRETE REINFORCING STEEL INSTITUTE DESIGN HANDBOOK "PLACING REINFORCING BARS". LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS, AS REQUIRED TO SECURE AGAINST DISPLACEMENT. MAXIMUM ACCESSORY SPACING SHALL BE 4'-0" ON CENTER.
3. UNLESS NOTED ON THE DRAWINGS, CONTACT LAP SPLICES FOR REINFORCING BARS IN CONCRETE SHALL BE PROVIDED AS FOLLOWS:

BAR SIZE	CLASS B LAP
#3	16"
#4	20"
#5	25"
#6	31"
#7	45"
#8	52"

LAP SPLICE LENGTHS ARE BASED ON 4000 PSI NORMAL WEIGHT CONCRETE WITH A MINIMUM CLEAR COVER OF 1 1/2" AND A MINIMUM SPACING OF 3", WHERE ANY OF THESE HAVE NOT BEEN MET, THE SUPPLIER SHALL PROVIDE THE LAP LENGTHS ON THE SHOP DRAWINGS.

6.0 STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL BE ASTM A36 FOR SHAPES AND PLATES, ASTM A53 FOR PIPES, AND ASTM A500, GRADE B FOR STRUCTURAL TUBES, UNLESS NOTED OTHERWISE. W SHAPES SHALL BE ASTM A992 OR ASTM A572, GRADE 50. FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AISC MANUAL OF STEEL CONSTRUCTION.
2. ALL WELDING SHALL CONFORM TO THE CURRENT AMERICAN WELDING SOCIETY SPECIFICATIONS AND BE PERFORMED BY CERTIFIED WELDERS.
3. UNLESS NOTED OTHERWISE, ALL OPENINGS IN METAL ROOF DECK SHALL HAVE 5 X 3 X 5/16" ANGLE FRAME SET BETWEEN JOISTS. SUPPORT MECHANICAL EQUIPMENT WITH ANGLE 5 X 3 X 5/16" (LLH) PER 3-S200 AND REINFORCE JOIST PER SECTION 1-S200. WHERE LOAD OF 100 LBS OR GREATER IS APPLIED GREATER THAN 3" FROM JOIST PANEL POINT.
4. ALL STRUCTURAL STEEL SHALL HAVE ONE SHOP COAT OF GRAY RUST INHIBITOR PRIMER PAINT CONFORMING TO THE SPECIFICATIONS. FIELD TOUCH UP ALL UNPAINTED, NICKED AND WELDED AREAS.
5. ALL EXTERIOR STEEL SHALL BE GALVANIZED.

7.0 MASONRY:

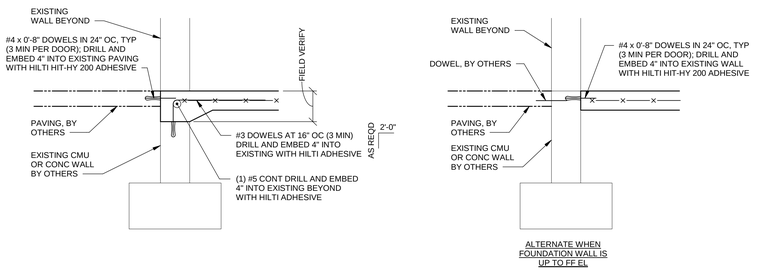
1. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 SPECIFICATIONS AND SHALL BE PLACED IN RUNNING BOND UNLESS NOTED OTHERWISE.
2. CONCRETE MASONRY SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, F'M, OF 1500 PSI. ALL MORTAR FOR MASONRY SHALL BE TYPE S, MORTAR CEMENT IN ACCORDANCE WITH ASTM C 270. MASONRY CEMENT IS NOT ALLOWED. PROVIDE MORTAR BED ON WEB BETWEEN GROUTED CELL AND HOLLOW CELL.
3. MASONRY GROUT SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 1500 PSI. MASONRY CONTRACTOR SHALL SUBMIT GROUT MIX DESIGN FOR REVIEW PRIOR TO CONSTRUCTION. GROUTED CELLS SHALL BE PLACED IN LOW LIFTS NOT TO EXCEED 4'-8". ALL GROUTED CELLS SHALL BE MECHANICALLY VIBRATED USING A LOW ENERGY DEVICE NOT GREATER THAN 1" IN DIAMETER. DO NOT USE CONCRETE VIBRATOR.
4. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 AND LOCATED IN THE CENTER OF CMU WALLS (+- 1/2") UNLESS NOTED OTHERWISE. USE WIRE REBAR PLACEMENT DEVICES OR OTHER APPROVED MEANS TO PROPERLY LOCATE AND SECURE REINFORCEMENT IN PLACE.
5. ALL BOND BEAMS AND CELLS CONTAINING REINFORCING STEEL, ANCHORS, EMBEDMENTS, ETC. SHALL BE FILLED WITH GROUT.
6. HORIZONTAL JOINT REINFORCEMENT SHALL BE PREFABRICATED LADDER TYPE WITH 9 GAGE SIDE AND CROSS RODS. VERTICAL SPACING OF JOINT REINFORCEMENT SHALL NOT EXCEED 16 INCHES ON CENTER. PREFABRICATED CORNER AND TEE UNITS SHALL BE USED AND SIDE RODS SHALL BE LAPPED 6 INCHES MINIMUM AT SPLICES.
7. ALL VERTICAL REINFORCEMENT AND CONTINUOUS STEEL SHALL BE LAPPED 48 BAR DIAMETERS (24 INCHES MINIMUM) AT SPLICES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
8. WORK IN PROGRESS SHALL BE INSPECTED AND MATERIALS, EQUIPMENT AND PROCEDURES EVALUATED FOR QUALITY AND ACCEPTABILITY BY QUALIFIED PERSONNEL. REQUIREMENTS FOR MATERIALS AND CONSTRUCTION OF MASONRY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR MASONRY STRUCTURES (ACI530.1/ASCE6/TMS 402).
9. MASONRY MAY BE PLACED USING NORMAL PROCEDURES WHEN TEMPERATURES ARE BETWEEN 40-90 DEGREES F. WHEN TEMPERATURES ARE ABOVE OR BELOW THIS RANGE, HOT AND COLD WEATHER MASONRY PROCEDURES OUTLINED IN THE APPLICABLE CODES SHALL BE FOLLOWED.
   - A. WHEN TEMPERATURES ARE ABOVE 100 DEGREES OR 90 DEGREES WITH AN 8 MPH WIND, "HOT WEATHER PROCEDURES" MUST BE FOLLOWED.
   - B. WHEN TEMPERATURES ARE BELOW 40 DEGREES, "COLD WEATHER PROCEDURES" MUST BE FOLLOWED. BUILDING WITH FROZEN MATERIALS IS NOT ALLOWED. USING CALCIUM CHLORIDE IS NOT ALLOWED. ALL WALLS SHALL BE COVERED AT THE END OF EACH DAY.

8.0 SPECIAL INSPECTIONS:

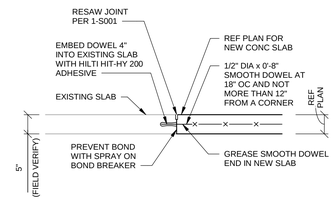
1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE 2012 INTERNATIONAL BUILDING CODE (IBC). ALL SPECIAL INSPECTORS SHALL BE QUALIFIED FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION AND MUST BE APPROVED BY THE BUILDING OFFICIAL. SPECIAL INSPECTORS SHALL PERFORM THE DUTIES AND RESPONSIBILITIES OUTLINED IN CHAPTER 17 OF THE 2012 EDITION OF THE IBC. REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER OF RECORD IN A TIMELY MANNER.
2. TYPES OF WORK REQUIRING SPECIAL INSPECTION:
   - -- A: CONCRETE PER SECTION 1704.4:
   - -- 1. PERIODIC INSPECTION OF THE PLACEMENT OF REINFORCING STEEL.
   - -- 2. CONTINUOUS INSPECTION OF THE PLACEMENT OF ANCHORS IN CONCRETE INCLUDING, SIZE, LENGTH, PROJECTION, AND LOCATION.
   - -- 3. SAMPLING OF FRESH CONCRETE, PERFORM TESTS FOR SLUMP, AIR CONTENT, AND TEMPERATURE. CAST SPECIMENS FOR STRENGTH TESTS (SEE CAST-IN-PLACE CONCRETE - EXECUTION NOTES).
   - -- 4. CONTINUOUS INSPECTION ANCHORS INSTALLED IN HARDENDED CONCRETE, INCLUDING HOLE SIZE AND DEPTH CLEANING PROCEDURE, MATERIALS, AND LOCATION. ALL ANCHORS INSTALLED IN HARDENDED CONCRETE ARE SUBJECT TO INSPECTION.
   - -- 5. PERIODIC INSPECTION FOR MAINTENANCE OF CURING AND TEMPERATURE TECHNIQUES.
   - -- 6. PERIODIC INSPECTION OF FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS.
   - -- B: MASONRY PER SECTION 1704.5:
   - -- 1. AT THE BEGINNING OF MASONRY CONSTRUCTION, ONE MASONRY UNIT AND ONE GROUT SAMPLE SHALL BE TAKEN FOR TESTING. MASONRY UNITS SHALL BE TESTED IN ACCORDANCE WITH ASTM C1409. GROUT SHALL BE TESTED IN ACCORDANCE WITH ASTM C1019.
   - -- 2. DURING CONSTRUCTION, ONE MASONRY UNIT AND ONE GROUT SAMPLE SHALL BE TAKEN.
   - -- 3. THE PLACEMENT OF VERTICAL REINFORCEMENT AND THE GROUTING OF WALLS SHALL BE OBSERVED DURING THE INITIAL AND FINAL GROUT POURS, AND ONCE BETWEEN.
   - -- 4. CMU MORTAR SAMPLES AND INSPECTION OF JOINTS SHALL OCCUR AT THE BEGINNING OF MASONRY CONSTRUCTION AND ONCE BETWEEN.
   - -- 5. PERIODIC INSPECTIONS OF THE PREPARATION, CONSTRUCTTION, AND PROTECTION OF MASONRY DURING COLD OR HOT WEATHER CONDITIONS.
   - -- C: STRUCTURAL STEEL PER SECTION 1704.3:
   - -- 1. PERIODIC INSPECTION FOR MATERIAL VERIFICATIONS.
   - -- A. HIGH STRENGTH BOLTS, NUTS AND WASHERS.
   - -- B. STRUCTURAL STEEL IDENTIFICATION.
   - -- 2. QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS SHALL BE VERIFIED PRIOR TO START OF WORK. PERIODIC INSPECTIONS SHALL BE MADE OF WORK IN PROGRESS AND A VISUAL INSPECTION OF ALL WELDS SHALL BE MADE PRIOR TO COMPLETION.
   - -- A. PERIODIC INSPECTION OF SINGLE-PASS WELDS.
   - -- B. PERIODIC INSPECTION OF WELD FILLER MATERIALS.

ABBREVIATION LEGEND

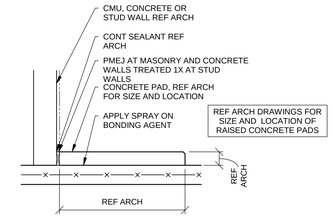
ACI	AMERICAN CONCRETE INSTITUE	MAX	MAXIMUM
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MFR	MANUFACTURER
AISI	AMERICAN IRON AND STEEL INSTITUTE	MIN	MINIMUM
ARCH	ARCHITECTURAL	MISC	MISCELLANOUS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MTL	METAL
AWS	AMERICAN WELDING SOCIETY	NIC	NOT IN CONTRACT
BFF	BELOW FINISHED FLOOR	NO	NUMBER
BM	BEAM	NS	NEAR SIDE
BO	BOTTOM OF	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL	OC	ON CENTER
BRG	BEARING	OD	OUTSIDE DIAMETER
CJ	CONTRACTION JOINT	OH	OPPOSITE HAND
CL	CENTER LINE	OSL	OUTSTANDING LEG
CLR	CLEAR	PAF	POWER ACTUATED FASTENER
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PL	PLATE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONST	CONSTRUCTION	PLUMB	PLUMBING
CONT	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
EJ	EXPANSION JOINT	QTY	QUANITY
EL	ELEVATION	REF	REFER TO
EQ	EQUAL	REINF	REINFORCING
EW	EACH WAY	REQD	REQUIRED
FDN	FOUNDATION	REV	REVERSE
FF	FINISHED FLOOR	RTU	ROOF TOP UNIT
FS	FAR SIDE	SCHED	SCHEDULE
FTG	FOOTING	SDI	STEEL DECK INSTITUTE
FV	FIELD VERIFY	SIM	SIMILAR
GA	GAUGE	SJI	STEEL JOIST INSTITUTE
GC	GENERAL CONTRACTOR	SP	SPACES
H	HEIGHT	SPECS	SPECIFICATIONS
HORIZ	HORIZONTAL	STRUC	STRUCTURAL
HSS	HOLLOW STRUCTURAL SECTION	T&B	TOP AND BOTTOM
INFO	INFORMATION	THK	THICKNESS
ISO	ISOLATION	TO	TOP OF
JST	JOIST	TOC/TC	TOP OF CONCRETE
JT	JOINT	TOF	TOP OF FOOTING
KSI	KIPS PER SQUARE INCH	TOM	TOP OF MASONRY
L	LENGTH	TOS	TOP OF STEEL OR TOP OF STUD
LB	POUNDS	TRANS	TRANSVERSE
LLH	LONG LEG HORIZONTAL	TYP	TYPICAL
LLV	LONG LEG VERTICAL	UNO	UNLESS NOTED OTHERWISE
LONG	LONGITUDINAL	VERT	VERTICAL
LSV	LONG SIDE VERTICAL	W	WIDTH



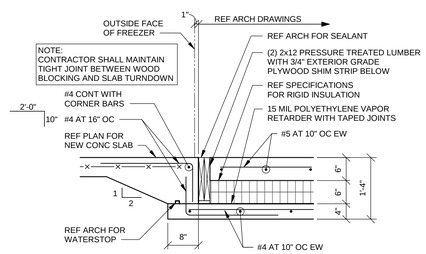
9 SLAB AT DOOR OPENING
3/4" = 1'-0"



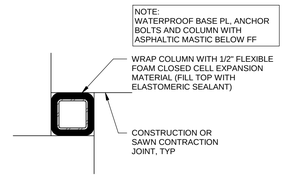
8 CONSTRUCTION JOINT AT EXISTING SLAB
3/4" = 1'-0"



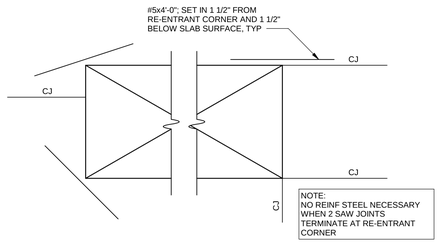
7 RAISED CONCRETE PAD
3/4" = 1'-0"



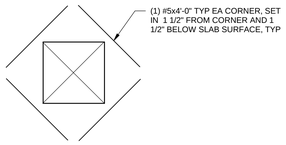
6 INSULATED FREEZER SLAB
3/4" = 1'-0"



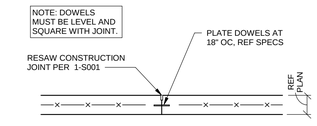
5 COLUMN ISOLATION JOINT
3/4" = 1'-0"



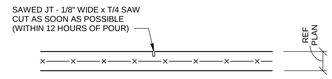
4 TYP RE-ENTRANT REINFORCING
3/4" = 1'-0"



3 TYPICAL SLAB OPENING REINFORCING
3/4" = 1'-0"



2 TYPICAL SLAB CONSTRUCTION JOINT
3/4" = 1'-0"



1 TYPICAL SLAB SAW JOINT
3/4" = 1'-0"

brr

Architect of Record:
BRR ARCHITECTURE INC.
6750 Antioch Plaza
Suite 350
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9595
Fax: 913-262-9644

Consultants

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 Central - Kansas City, Mo 64105
(816) 421-4200 - www.jbaengr.com

JBA PROJECT #17320

Issues & Revisions

NO.	DATE	DESCRIPTION

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: BWN
Checked By: BJH
Drawn by: BWN
Document date: 01/29/18
Template date:

Project No. 62911019

Professional Seal

Sheet Title
STRUCTURAL NOTES AND DETAILS

Sheet No.
S001

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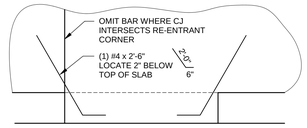


RE-ENTRANT REINFORCING AT DOOR

2 3/4" = 1'-0"

SLAB PLAN NOTES

1 DIMENSIONS SHOWN AT THE EXISTING BUILDING, WHICH AFFECT THE WORK, SHALL BE FIELD VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO EXECUTING WORK SHOWN.

2 SEE ARCHITECTURAL FOR DIMENSIONS NOT SHOWN.

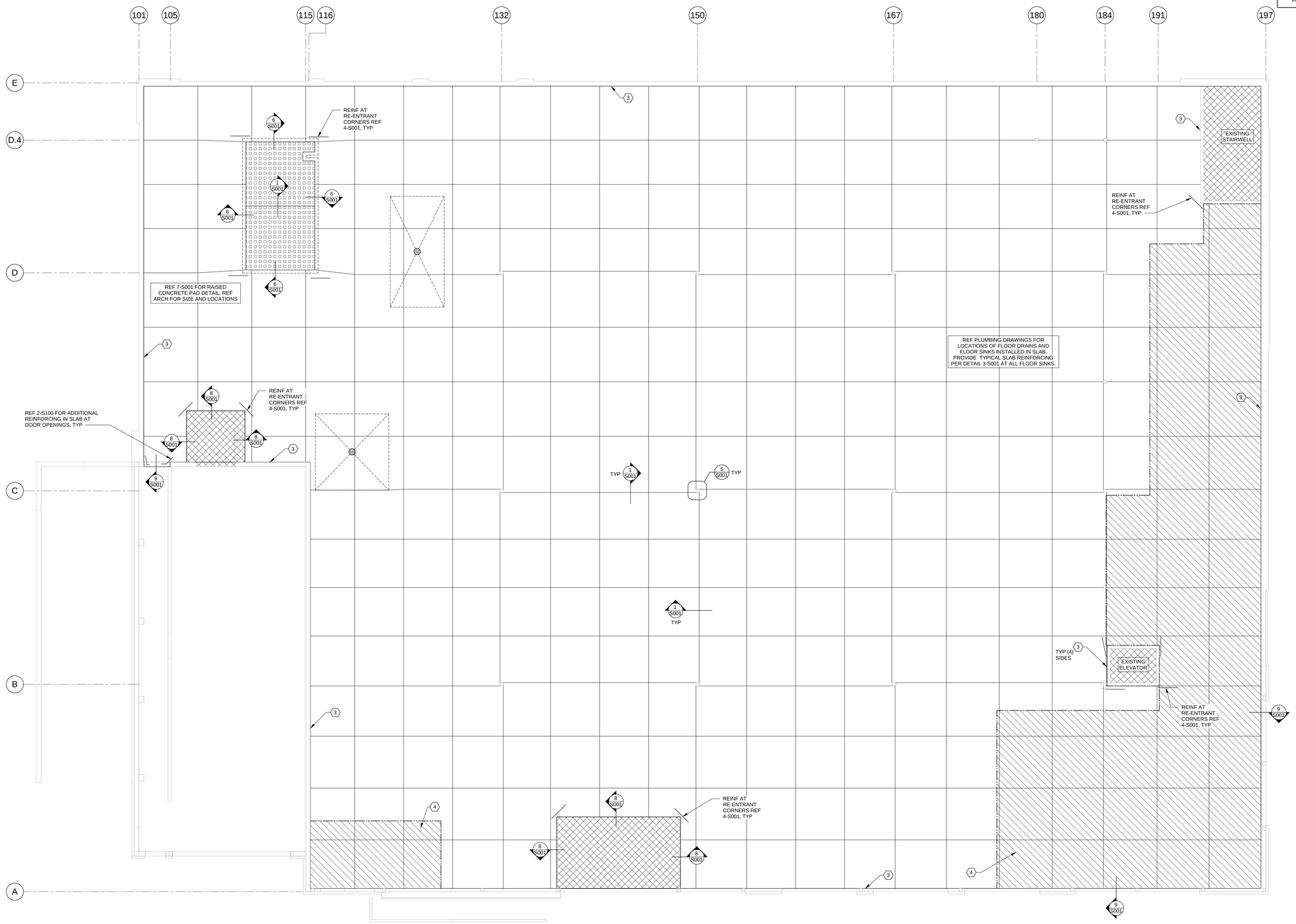
3 PROVIDE 30# FELT OR ISOLATION JOINT MATERIAL BETWEEN NEW SLAB ON GRADE AND EXISTING WALLS.

4 COORDINATE UNDER SLAB REQUIREMENTS WITH TENANT. POUR TENANT SLAB AT THE SAME TIME AS THE MAIN FLOOR SLAB WHEN POSSIBLE. WHEN TENANT SLAB IS POURED SEPARATE FROM MAIN SLAB PROVIDE CONSTRUCTION JOINT PER 2-S001, REENTRANT CORNER REINFORCEMENT PER 4-S001 AND ADJUST CONTROL JOINT SPACING AS REQUIRED TO MAINTAIN EVEN JOINT SPACING WITH SPACING NOT TO EXCEED 13 FEET ON CENTER.

5 PROVIDE TYPICAL SLAB OPENING REINFORCING AT FLOOR SINKS INSTALLED IN SLAB PER 3-S001, REF PLUMBING FOR LOCATIONS.

LEGEND

- NEW 5" CONCRETE SLAB ON GRADE REINFORCED WITH 6x6-W2.9xW2.9 WELDED WIRE FABRIC (IN SHEETS) AT MID-DEPTH OF SLAB OVER VAPOR RETARDER (REF SPECS) OVER 4" GRANULAR BASE COURSE. PIN FLR EL = 100'-0"
- INSULATED FREEZER SLAB OVER REINFORCED CONCRETE SUBSLAB
- EXISTING CONCRETE SLAB (BY BUILDING SHELL ENGINEER)
- TENANT SLAB AREA
- FLOOR DRAIN, REF PLUMBING FOR LOCATION
- CONSTRUCTION JOINT WHEN REQUIRED, REF 2-S001
- SLOPED SLAB, REF ARCH FOR LOCATION AND SLOPE



SLAB PLAN

1 1/8" = 1'-0"

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brr

Architect of Record:
BRR ARCHITECTURE INC.
6700 Antioch Plaza
Suite 350
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

JBA JOHNSTON BURKHOLDER ASSOCIATES
consulting structural engineers
930 Central - Kansas City, Mo 64105
(816) 421-4200 - www.jbaengr.com

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Template date:

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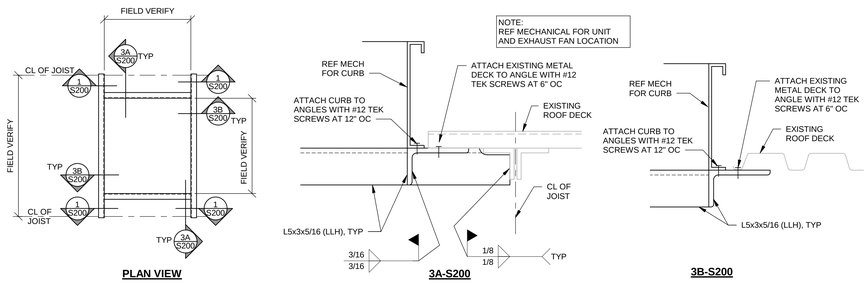
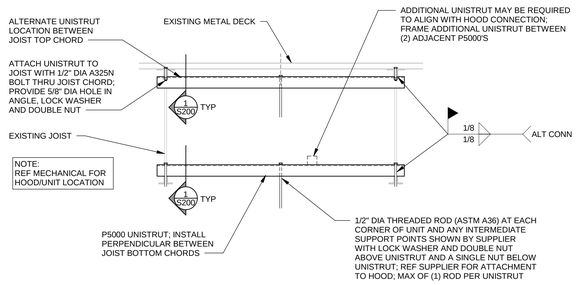
Professional Seal

Sheet Title SLAB PLAN

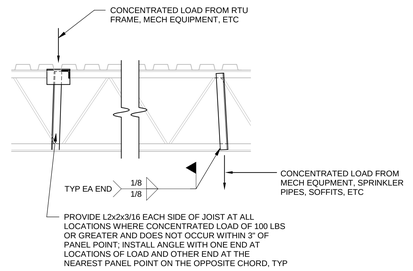
Sheet No. S100



3 OPENINGS LARGER THAN 10"x10" IN EXISTING ROOF
3/4" = 1'-0"



2 HOOD/MECHANICAL UNIT SUPPORT
3/4" = 1'-0"



1 TYP JOIST REINF AT CONCENTRATED LOADS
3/4" = 1'-0"

Architect of Record:
BRR ARCHITECTURE INC.
6700 Antioch Plaza
Suite 255
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

JBA JOHNSTON BURKHOLDER ASSOCIATES
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930 CENTRAL · KANSAS CITY, MO 64105
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Professional Seal

Sheet Title
DETAILS

Sheet No.
S200

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365 MEP EQUIPMENT CONNECTION SCHEDULE

Equipment Designation	Description	Manufacturer	Model No.	ELECTRICAL Voltage	Load	Termination	Electrical Notes	PLUMBING Cold Water Size	Hot Water Size 110F	Hot Water Size 140F	Reverse Osmosis Water Size	Carbonated Water Size	Sanitary Size Direct	Sanitary Size Indirect	Grease Size Direct	Grease Size Indirect	Condensate Size Direct	Condensate Size Indirect	Vent Size	Gas Size	Equipment MBH	Information Received Yes	Information Received No
0000 SERIES - FRONT END																							
0-113	MICROWAVE	PANASONIC	NE-1064	120/1	1000W	NEMA 5-20R IN MILLWORK	-	-	-	-	-	-	-	-								X	
1000 SERIES - PRODUCE																							
1-000	REFRIGERATED PRODUCE BINS	JSI	RBS048I-CA38-MET-201...	208/1	12.8A	NEMA 6-20R AT 18" AFF ON POWER POLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
1-103	HOSE REEL	DURO	1214	-	-	-	-	3/4"	-	3/4"	-	-	-	-	-	-	-	-	-	-	-	X	
1-116	ICE MAKER	ICE O MATIC	GEM 1306	208/1	15.8	10' CORD WITH NEMA L6-20P AND L6-20R AT 84" AFF	2	3/4"	-	-	-	-	-	3/4"	-	-	-	-	-	-	-	X	
1-118	PRODUCE MISTING	PRODEW	-	120/1	5.0A	NEMA 5-20R AT 126"	-	1/2"	-	-	-	-	-	1/2"	-	-	-	-	-	-	-	X	
1-301	HAND SINK	AMTEKCO	DH19	-	-	-	-	1/2"	1/2"	-	-	-	2"	-	-	-	-	-	1-1/2"	-	-	X	
1-302	3 COMP UTILITY SINK W/LR DRAIN BOARD	AMTEKCO	C-3-1824-24D	-	-	-	-	3/4" (x2)	-	3/4" (x2)	-	-	-	2"	-	-	-	-	-	-	-	X	
1-303	2 COMP SINK W/LR DRAIN BOARD	AMTEKCO	C-2-1824-24D	-	-	-	-	3/4"	-	3/4"	-	-	-	2"	-	-	-	-	-	-	-	X	
2000 SERIES - SEAFOOD																							
2-005	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
2-006	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
3000 SERIES - MEAT																							
3-005	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
3-006	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
3-141	MEAT SAW	HOBART	6614	208/3	9.3A	6' CORD WITH NEMA L15-20P AND NEMA L15-20R ON DROP CORD	2,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
3-142	MEAT CHOPPER	HOBART	4732A	208/3	8.6A	6' CORD WITH NEMA 15-15P AND NEMA 15-15R ON DROP CORD	2,3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
3-143	FAT TESTER	HOBART	F101	120/1	5.0A	NEMA 5-20R AT 18" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5000 SERIES - FRESH EATS																							
5-005	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-006	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-019	HOT/COLD COMBO TABLE	PIPER	R3H2CM	120/208/1	23A	NEMA 14-30R AT 18" AFF	-	-	-	-	-	-	-	3/4"	-	-	-	-	-	-	-	X	
5-024	OLIVE BAR	HILL PHOENIX	SBI-410SC	208/1	11.3A	NEMA 6-15R AT 18" AFF ON POWER POLE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-100	COLD FLIP TOP TABLE	CONTINENTAL	CPA93	120/1	14.4A	NEMA 5-20R ON DROP CORD, U.N.O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-103	HOSE REEL FOR SCULLERY	DURO	1214	-	-	-	-	3/4"	-	3/4"	-	-	-	-	-	-	-	-	-	-	-	X	
5-105	ROTISSERIE	ALTO-SHAAM	AR-7E	208/1	40.0A	6' CORD WITH NEMA L6-50P AND L6-50R AT 18" AND 42" AFF	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-106	BLAST CHILLER	ALTO-SHAAM	QC2-20	120/1	16.0A	NEMA 5-20R AT 18" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-108	HOT HOLD CABINET	ALTO-SHAAM	1000-UP	120/1	16.0A	NEMA 5-20R AT 60" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-111	DOUBLE STACK STEAMER	ACCUTEMP	N61201E DBL	120/1	1.0A	NEMA 5-20R AT 18" AND 48" AFF	-	-	-	-	3/4" (x2)	-	-	-	-	3/4" (x2)	-	-	-	3/4" (x2)	60 (x2)	X	
5-115	MERRYCHEF HIGH SPEED OVEN	MERRYCHEF	EIKON E2S	208/1	6000W	6' CORD WITH NEMA L6-30P AND NEMA L6-30R ON DROP CORD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-119	PIZZA OVEN	BAKER'S PRIDE	EP-3-8-3836	208/3	8KW	DIRECT CONNECT AT 18", 36" AND 54" AFF	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-124	DOUBLE STACK CONVECTION OVEN	BLODGETT	ZEPHAIRE-100-G-ES	120/1	8.0A	NEMA 5-20R AT 21" AND 53" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	3/4" (x2)	90	X	
5-127	DISHWASHER	CMA	EST-44TALL	480/3	27.0A	DIRECT CONNECT	1	-	-	3/4"	-	-	-	-	-	2"	-	-	-	-	-	X	
		CMA	E-TEMP BOOSTER...	480/3	18KW	DIRECT CONNECT	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5-132	GAS GRIDDLE	VULCAN	936RX	120/1	1.0A	NEMA 5-20R AT 28" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	3/4"	81	X	
5-133	GAS CHAR-BROILER	VULCAN	VACB36	120/1	1.0A	NEMA 5-20R AT 28" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	3/4"	102	X	
5-146	SODA MACHINE	LANCER	CED 1500	120/1	7.8A	REFER TO ELECTRICAL SHEET FOR CONNECTIONS	-	-	-	3/4"	-	-	2"	-	-	-	-	-	-	-	-	X	
5-147	ICE MACHINE	HOSHIZAKI	DCM-500BAH	120/1	12.9A	REFER TO ELECTRICAL SHEET FOR CONNECTIONS	-	-	-	3/4"	-	-	2"	-	-	-	-	-	-	-	-	X	
5-148	COLD SANDWICH TOP TABLE	TRAULSEN	UST7230	120/1	7.5A	NEMA 5-20R AT 28" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-149	MANUAL SAFETY SLICER	BIZERBA	GSP-H SERIES	120/1	3A	NEMA 5-20R AT 48" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-205	COLD FOOD BAR	HILL PHOENIX	CUSTOM	120/208/1	3.1A	REFER TO ELECTRICAL SHEET FOR CONNECTIONS	-	-	-	-	-	-	-	2"	-	-	-	-	-	-	-	X	
5-206	COLD FOOD BAR	HILL PHOENIX	CUSTOM	120/208/1	13.3A	REFER TO ELECTRICAL SHEET FOR CONNECTIONS	-	1/2"	-	-	-	-	-	2"	-	-	-	-	-	-	-	X	
5-207	HOT FOOD BAR	HILL PHOENIX	CUSTOM	120/208/3	61A	REFER TO ELECTRICAL SHEET FOR CONNECTIONS	-	1/2"	-	-	-	-	-	2"	-	-	-	-	-	-	-	X	
5-208	SOUP AND PIZZA BAR	HILL PHOENIX	CUSTOM	120/208/1	39A	REFER TO ELECTRICAL SHEET FOR CONNECTIONS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
5-300	2 COMP SINK W/DRAIN BOARD L & R	AMTEKCO	C-2-1824-24D	-	-		-	3/4"	-	3/4"	-	-	-	-	-	2"	-	-	-	-	-	X	
5-301	HAND SINK	AMTEKCO	DH19	-	-		-	1/2"	1/2"	-	-	-	2"	-	-	-	-	-	1-1/2"	-	-	X	
5-302	3 COMP SINK W/DRAIN BOARD L & R	AMTEKCO	C-3-1824-24D	-	-		-	3/4" (x2)	-	3/4" (x2)	-	-	-	-	-	2"	-	-	-	-	-	X	
6000 SERIES - PANTRY																							
6-145	BREAD SLICER	JAC	450	120/1	4A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8000 SERIES - PANTRY																							
8-005	REFRIGERATED SIDE CASE WITH DOORS	ARNEG	URANO SIDE	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-006	REFRIGERATED HEAD CASE WITH DOORS	ARNEG	URANO HEAD	120/1	9.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-025	CHEESE CASE	STRUCTURAL...	M136R 5429	120/1	16A	NEMA 5-20R ON CORD REEL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-029	WHOLE BODY CASE	ARNEG	SWAN H180	120/1	11.3A	NEMA 5-20R AT 18" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-042	MOCHI BIN	AHT	IBIZA	120/1	3.3A	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-123	BULK WATER MACHINE	AQUA 9+	AQ9 2000	120/1	15A	NEMA 5-20R AT 18" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-124	NUT GRINDER STATION	RHINO	NG2004	208/1	14.5A	NEMA 6-20R AT 48" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-126	COFFEE GRINDER	BUNN	G3	120/1	9.0A	NEMA 5-20R AT 18" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
8-402	WINE KIOSK	HILL PHOENIX	CWC-2D	120/1	700W	NEMA 5-20R IN FLOOR BOX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16000 Series - General Store																							
16-103	HOSE REEL	DURO	1214	-	-	-	-	3/4"	-	3/4"	-	-	-	-	-	-	-	-	-	-	-	X	
16-113	MICROWAVE	PANASONIC	NE-1064	120/1	1000W	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-115	REFRIGERATOR	FRIGIDAIRE	FFHS2322MS	120/1	8.5A	NEMA 5-20R AT 18" AFF	-	1/2"	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-312	HAND SINK	AMTEKCO	DH30	-	-	-	-	1/2"	1/2"	-	-	-	2"	-	-	-	-	-	1-1/2"	-	-	X	
16-500	MARC CART	NEW AGE INDUXTRIAL	CUSTOM	120/1	7.2A	NEMA 5-20R AT 18" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-706	BALER	PTR	2300HD	480/3	10 HP	DIRECT CONNECT	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-708	ELECTRIC POWER JACK	CROWN	WP3035	120/1	5.0A	NEMA 5-20R ON DROP CORD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-711	BUG ZAPPER	GILBERT	2002 GT	120/1	93W	NEMA 5-20R AT 84" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-713	FLOOR SCRUBBER	TENNANT	5400	120/1	500W	NEMA 5-20R AT 48" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-716	ELECTRIC CART	AMIGO	VALUSHOPPER34	120/1	500W	NEMA 5-20R AT 48" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
16-717	COMPACTOR	ACCURATE	255HD	480/3	10 HP	DIRECT CONNECT	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
		ACCURATE	CONTROLS	24V	-	-																	
17000 Series - IT																							
17-801	REGISTER AND HUB HARDWARE PACKAGE																						
17-802	SIGN PRINTER	LEXMARK	C950DE	120/1	6.0A	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-803	SCALE	BIZERBA	KH100	120/1	2.0A	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-804	WEIGH STATION	BIZERBA	MC500	120/1	2.0A	VARIES - REFER TO SHEET E200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-805	PRINTER	HP	LASERJET PRO	120/1	6.0A	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-808	DELECTABLE TABLET KIOSKS	LILITAB	FLOOR PRO	120/1	2.0A	NEMA 5-20R AT KIOSK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-809	ALOHA KITCHEN PRINTER	EPSON	OT-CC702B	120/1	100W	NEMA 5-20R AT KIOSK, U.N.O	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-810	DIGITAL INFO SCREEN	SAMSUNG	-	120/1	300W	VARIES - REFER TO SHEET E200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-811	DVO ORDERING GUN	ZEBRA	WORKABOUT PRO4	120/1	180W	NEMA 5-20R DUPLEX IN MILLWORK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
17-812	TIME CLOCK	KRONOS	4500	120/1	180W	NEMA 5-20R AT 44" AFF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-813	DESKTOP	DELL	OPTIPLEX 9030	120/1	180W	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-814	DIGITAL INFO SCREEN	LG	43LX341C	120/1	300W	VARIES - REFER TO SHEEET E200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-815	TRAINING TABLET CHARGER	TRIPP-LITE	CS16USB	120/1	2.4A	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-821	LAPTOP	DELL	LATITUDE E7250	120/1	180W	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-824	TRAINING TABLET	DELL	VENUE 8 PRO 3000	120/1	350W	NEMA 5-20R AT 6" ABOVE COUNTER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	
17-826	MANUAL WRAPPING/LABELING SYSTEM	BIZERBA	BIZ WRAPPING SYSTEM	120/1	6.5A	6' CORD WITH NEMA 5-20P AND GFI 5-20R AT 36" AFF	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No.
62911019

Professional Seal

05/21/2018

Sheet Title
MEP EQUIPMENT CONNECTION SCHEDULE

Sheet
MEP000

5/21/2018 4:19:48 PM

OUTSIDE AIR REQUIREMENTS, ASHRAE 62.1 (IP)

Ventilation Zone	Associated System	ASHRAE Space Use Category	People Outdoor Air Rate [Rp] (CFM/Person)	Default Occupanct Density (#/1000 ft2)	Default Zone Population (people)	Actual Population Override (people)	Zone Population [Pz] (people)	Area Outdoor Air Rate[Ra] (cfm/ft2)	Zone Floor Area [Az] (ft2)	Breathing Zone Outdoor Airflow [Vbz] (CFM)	Zone Air Distribution Effectiveness [Ez]	People-Based Zone OA Required (Rp*Pz)/Ez	Area-Based Zone OA Required (Ra*Az)/Ez (CFM)	Zone Outdoor Airflow [Voz] (CFM)
SALES	RTU-1/2	Supermarket	7.5	8	129		129	0.06	16186.00	1942.3	0.8	1214	1214	2428
FRIENDS 2	RTU-3	Sales (except as below)	7.5	15	28		28	0.12	1890.00	439.4	0.8	266	283.5	549
SEATING/CHECKOUT	RTU-4	Restaurant dining rooms	7.5	70	70	53	53	0.18	1003.00	578.0	0.8	497	225.675	723
VESTIBULE	RTU-9	Not regularly occupied	0	0	0		0	0	356.00	0.0	0.8	0	0	0
FRIENDS 1	RTU-5	Sales (except as below)	7.5	15	5		5	0.12	338.00	78.6	0.8	48	50.7	98
KITCHEN/SCULLERY	RTU-6	Kitchen (cooking)	7.5	20	24		24	0.12	1220.00	329.4	0.8	229	183	412
BOH	RTU-7	Shipping/receiving	10	2	5		5	0.12	2371.00	331.9	0.8	59	355.65	415
RECEIVING	RTU-7	Shipping/receiving	10	2	3		3	0.12	1294.00	181.2	0.8	32	194.1	226
MEETING	RTU-8	Conference/meeting	5	50	7	6	6	0.06	145.00	38.7	0.8	38	10.875	48
LEADERS	RTU-8	Office space	5	5	1	6	6	0.06	199.00	41.9	0.8	38	14.925	52
STL LEADERS	RTU-8	Office space	5	5	0	1	1	0.06	93.00	10.6	0.8	6	6.975	13
COUNTING	RTU8	Office space	5	5	0	1	1	0.06	83.00	10.0	0.8	6	6.225	12
BREAK	RTU-8	Office space	5	5	2	11	11	0.06	377.00	77.6	0.8	69	28.275	97
MEZZANINE	RTU-10	Sales (except as below)	7.5	8	25		25	0.06	3157.00	378.8	0.8	237	236.775	474
RESTROOMS	RTU-10	Not regularly occupied	0	0	0		0	0	337	0.0	0.8	0	0	0

NOTE:
1. SALES FLOOR, SEATING, AND CHECKOUT ARE ALL OPEN TO EACH OTHER. OUTSIDE AIR IS PROVIDED AT RTU-1 AND RTU-2 FOR THESE SPACES.

DUCTWORK MATERIAL SCHEDULE

DUCTWORK SYSTEM	DUCTWORK MATERIAL
KITCHEN HOOD EXHAUST(EXPOSED)	CARBON STEEL, MINIMUN 16-GAUGE
DISHWASHER HOOD EXHAUST	STAINLESS STEEL, MINIMUM 18-GAUGE
GENERAL RECTANGULAR DUCTWORK	GALV. SHEET STEEL PER SMACNA TABLES 1-3 THROUGH 1-19, MIN. 26-GAUGE
ROUND DUCTWORK	GALVANIZED STEEL SMACNA TABLE 3-2, MINIMUM 26-GAUGE
FACTORY MANUFACTURED ROUND DUCTWORK	GALVANIZED STEEL, SPIROSAFE SYSTEM BY LINDAB OR APPROVED EQUAL

NOTES:
1. REFER TO SPECIFICATIONS FOR JOINTS, SEAMS, FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION.
2. SEAMS, JOINTS, PENETRATIONS, AND DUCT-TO-HOOD COLLAR CONNECTIONS SHALL HAVE LIQUID-TIGHT CONTINUOUS EXTERNAL WELD PER UMC 510.5.2.

GENERAL MECHANICAL NOTES:

1 PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR 365 OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

2. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE, COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC.

3. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION DURING WORK. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO EXTRA COST TO 365.

4. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.

5. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.

6. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.

7. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH REFRIGERATION EQUIPMENT AND WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

8. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.

9. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF.

10. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.

11. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.

12. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.

13. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.

14. EMS CONTRACTOR SHALL SET THERMOSTATS AND HUMIDISTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL DEVICES 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. PROVIDE INSULATED BACKING FOR THERMOSTATS MOUNTED ON EXTERIOR BUILDING WALLS. EMS CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING.

15. COORDINATE THE LOCATION AND ELEVATION OF WALL-MOUNTED DEVICES WITH PRESENTATION BOARDS, DISPLAY CABINETS, SHELVES OR OTHER COMPONENTS SHOWN ON THE ARCHITECTURAL DRAWINGS THAT ARE TO BE INSTALLED UNDER OTHER DIVISIONS. CONTRACTOR WILL NOT BE REIMBURSED FOR RELOCATION OF WALL-MOUNTED DEVICES CAUSED BY A LACK OF COORDINATION.

16. PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

17. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.

18. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.

19. REFER TO SPECIFICATIONS FOR DUCTWORK AND PIPING INSULATION REQUIREMENTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY TO ACCOUNT FOR THICKNESS OF DUCT LINER.

20. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

21. RIGIDLY SUSPEND UNIT HEATER FROM STRUCTURE WITH SUPPORTING ANGLES AND ALL-THREAD HANGING RODS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

22. PROVIDE EQUIPMENT VENTS AND FLUES PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS AND EQUIPMENT SPECIFICATIONS. KEEP PENETRATIONS THROUGH ROOF A MINIMUM OF 10'-0" FROM HVAC EQUIPMENT FRESH AIR INLETS AND 3'-0" FROM ROOF PARAPETS.

23. PROVIDE TYPE I GREASE HOOD EXHAUST DUCTWORK WITH ACCESS PANELS FOR GREASE CLEANING AS REQUIRED BY NFPA 96 AND LOCAL CODES. SLOPE DUCT BACK TOWARDS HOOD AT MINIMUM OF 1/4" PER LINEAL FOOT MAINTAINING 18" CLEARANCE TO COMBUSTIBLE MATERIALS. IF APPROVED BY LOCAL CODES, PROVIDE AN APPROVED WRAP SYSTEM. DUCT WRAP SYSTEM SHALL MEET UL REQUIREMENTS FOR GREASE DUCT ENCLOSURES.

24. PROVIDE WALL MOUNTED LOUVERS AND DAMPERS WITH SUITABLE MOUNTING FRAME TO MATCH WALL CONSTRUCTION. COORDINATE WITH ARCHITECTURAL DRAWINGS.

25. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING. AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

26. INSPECT AND FULLY CHARGE ALL HVAC EQUIPMENT PRIOR TO RELEASE OF BUILDING.

27. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO 365. THE INTERNAL SURFACES AND ASSOCIATED COILS OF ANY HVAC UNITS THAT WERE OPERATED SHALL ALSO BE CLEANED.

MECHANICAL SYMBOLS

v1.01

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

HVAC EQUIPMENT & DUCTWORK

NOTE: ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS. SEE SECTION 15250 OF THE SPECIFICATION FOR DUCTWORK TO RECEIVE INSULATION OR LINER.

LINEAR SLOT DIFFUSER
INSULATED FLEXIBLE DUCT (MAX. 5'-0" LONG)
BRANCH DUCT WITH 45° RECTANGLE-ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER
ELBOW WITH TURNING VANES
BRANCH DUCT WITH BELL-MOUTH FITTING & MANUAL VOLUME CONTROL DAMPER
RETURN AIR DUCT UP
RETURN AIR DUCT DOWN
SUPPLY OR OUTSIDE AIR DUCT UP
SUPPLY OR OUTSIDE AIR DUCT DOWN
EXHAUST AIR DUCT UP
EXHAUST AIR DUCT DOWN
EQUIPMENT WITH FLEXIBLE DUCT CONNECTION

10" NECK SIZE
CSD-1 TYPE
300 CFM OF SUPPLY DIFFUSER OR REGISTER

3-WAY AIR DEVICE

24x24 NECK SIZE
CEG-1 TYPE
800 CFM OF EXHAUST GRILLE

MANUAL VOLUME DAMPER
SQUARE TO ROUND TRANSITION
RD DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)

#	RISER DESIGNATION	CO	CARBON MONOXIDE SENSOR
FD	FIRE DAMPER	CO2	CARBON DIOXIDE SENSOR
FSD	FIRE SMOKE DAMPER	DP	DIFFERENTIAL PRESSURE SENSOR
SD	SMOKE DAMPER	FS	FLOW SWITCH
VD	VOLUME DAMPER	HS	HUMIDITY SENSOR
MD	MOTORIZED DAMPER	PS	PULL STATION
BD	BACKDRAFT DAMPER	SP	STATIC PRESSURE PORT
H	HUMIDISTAT	TS	TEMPERATURE SENSOR
T	THERMOSTAT		

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR	MC MECHANICAL CONTRACTOR
BAS BUILDING AUTOMATION SYSTEM	MIN MINIMUM
BD BACKDRAFT DAMPER	NC NOISE CRITERIA
CFM CUBIC FEET PER MINUTE	OA OUTSIDE AIR
DDC DIRECT DIGITAL CONTROL	RA RETURN AIR
DX DIRECT EXPANSION	SA SUPPLY AIR
EA EXHAUST AIR	SD SMOKE DUCT DETECTOR
FFA FROM FLOOR ABOVE	TFA TO FLOOR ABOVE
FFB FROM FLOOR BELOW	TFB TO FLOOR BELOW
GPM GALLONS PER MINUTE	TYP TYPICAL
IN WC INCHES OF WATER COLUMN	UNO UNLESS NOTED OTHERWISE
MAX MAXIMUM	W/ WITH
MBH 1000 BTU PER HOUR	W/O WITHOUT

MOUNTING HEIGHTS

MECHANICAL	(AFF, AFG, UNLESS NOTED OTHERWISE)
THERMOSTATS (USER ADJUSTABLE)(TOP OF DEVICE)	48"
CONTROLS (TOP OF DEVICE)	48"
TEMPERATURE SENSORS (PUBLIC AREAS)	72"
TEMPERATURE SENSORS (NON-PUBLIC SPACES)	48"

ANNOTATION

1 MECHANICAL OR FIRE PROTECTION PLAN CALLOUT
1 PLUMBING PLAN NOTE CALLOUT
1 ELECTRICAL PLAN NOTE CALLOUT
1 TECHNOLOGY PLAN CALLOUT
1 PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES
1 EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
CU 1 MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
CONNECTION POINT OF NEW WORK TO EXISTING
1 M1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 M1 SECTION CUT DESIGNATION

DIVISION 23: SHALL BE RESPONSIBLE FOR RECEIVING FURNISHED EQUIPMENT AT THE JOB SITE, UNLOADING, STORING, AND INSTALLATION DURING CONSTRUCTION OF PROJECT. CONTACT 365 IF EQUIPMENT ARRIVES TO THE SITE DAMAGED.

DIVISION 23: SHALL PROVIDE THE SERVICES OF A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO START-UP ALL HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT UNITS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN START-UP INSTRUCTIONS. DO NOT OPERATE UNITS WITHOUT FILTERS INSTALLED. TEST CONTROLS AND DEMONSTRATE COMPLIANCE WITH REQUIREMENTS. REPLACE DAMAGED OR MALFUNCTIONING CONTROLS AND EQUIPMENT.

DIVISION 23: SHALL BE RESPONSIBLE FOR TEST AND BALANCE SCOPE OF WORK.

brr
Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants
ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: SGP
Checked By:
Drawn by: SGP
Document date: 01/26/18
Template date:

Project No. 62911019

Professional Seal

03/06/2018

Sheet Title: MECHANICAL SYMBOLS & NOTES

Sheet No. M000

3/6/2018 6:34:56 PM

1 MECHANICAL PLAN
1/8" = 1'-0"

KEYNOTES:

1. ROOFTOP UNIT PROVIDED BY LANDLORD AS PART OF THE BUILDING SHELL PACKAGE. CONNECT TO FULL SIZE SUPPLY AND RETURN DROPS OFF ROOFTOP UNIT AND MODIFY EXISTING DROPS AS NECESSARY TO INSTALL DUCTWORK AS SHOWN.
2. ROOFTOP UNIT PROVIDED BY LANDLORD AS PART OF THE BUILDING SHELL PACKAGE. DUCTWORK STUBBED INTO SPACE FOR FUTURE USE.
3. PROVIDE COMBINATION CONCENTRIC INTAKE VENT AND EXHAUST FLUE FROM EACH UNIT UP THROUGH ROOF AND TERMINATE WITH SAME MANUFACTURER'S TERMINATION KIT IN COMPLIANCE WITH LOCAL CODES AND MINIMUM 10'-0" SEPARATION FROM ALL AIR INTAKES. REFER TO SPECIFICATIONS AND MANUFACTURER REQUIREMENTS FOR APPROVED FLUE AND INTAKE MATERIALS AND SIZES FOR UNIT OPERATING TEMPERATURE.
4. ROUTE DUCTWORK FROM RETURN GRILLE UP THROUGH CEILING SUPPORT STRUCTURE ABOVE BEFORE TURNING HORIZONTALLY. SEE DETAIL FOR RETURN GRILLE BOOT.
5. ROUTE DUCTWORK LEVEL, TIGHT TO STRUCTURE, AND ABOVE LIGHTS. COORDINATE WITH STRUCTURAL AND ELECTRICAL.
6. PROVIDE TYPE I GREASE EXHAUST HOOD AND FAN WITH INTERNAL FILTERS, LIGHTS, FIRE SUPPRESSION SYSTEM, FIRE CABINET, PULL STATION, AND TEMPERATURE SENSOR AS APPLICABLE TO MEET CODE. REFER TO VENDOR PROVIDE EXHAUST SYSTEM SHEETS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS.
7. PROVIDE FULL SIZE RETURN DUCT DOWN AND OFFSET 36" HORIZONTAL FROM UNIT TIGHT TO STRUCTURE WITH 1" ACOUSTICAL LINER AND 3/4" WIRE MESH SCREEN ON INLET.
8. PROVIDE TYPE I FACTORY BUILT DOUBLE WALL GREASE DUCTWORK. REFER TO CAPTIVE AIRE HOOD DRAWINGS FOR FURTHER REQUIREMENTS.
9. PROVIDE INSULATED BACKING AT THERMOSTAT OR SENSOR.
10. PROVIDE THERMOSTAT CONNECTED TO RTU WITH 100'-0" OF COILED UP WIRE. SECURE THERMOSTAT IN SPACE BELOW ROOF DECK FOR FUTURE USE.
11. INSTALL HOOD FIRE SUPPRESSION MANUAL PULL-STATION AND TEMPERATURE SENSOR, FURNISHED BY HOOD SUPPLIER PER NFPA 96 REQUIREMENTS. COORDINATE LOCATION WITH LOCAL AHJ PRIOR TO ROUGH-IN.
12. ROUTE DUCT HORIZONTAL TIGHTLY ABOVE CEILING STRUCTURE ALLOWING ADEQUATE SPACE TO INSTALL ALL DUCTWORK AND FITTINGS TO CEILING DIFFUSERS. COORDINATE ROUTING WITH ALL OTHER TRADES.
13. LOCATE AIR CURTAIN OVER OPERABLE PORTION OF VESTIBULE SLIDING DOORS. MOUNT PER MANUFACTURER'S REQUIREMENTS.
14. PROVIDE ALUMINUM DUCT PER SPECIFICATIONS UP TO EXHAUST FAN ON ROOF.
15. DO NOT ROUTE DUCTWORK OR PIPING UNDER SKYLIGHTS.
16. DE-STRATIFICATION FAN FURNISHED AND INSTALLED BY DIVISION 26. SHOWN FOR CLARITY WITH DUCTWORK ON THIS SHEET. REFER TO ELECTRICAL PLANS.
17. PROVIDE WALL MOUNTING BRACKET FOR UNIT CONTROLLER FURNISHED BY MANUFACTURER.
18. PROVIDE REFRIGERATION LINE SETS ROUTED BETWEEEN INDOOR UNIT AND CONDENSING UNIT MOUNTED ON ROOF. REFRIGERATION PIPING SIZED AND INSTALLED PER MANUFACTURE'S RECOMMENDATIONS.
19. SPACE HUMIDITY SENSOR. REFERENCE EMS ONE-LINE DIAGRAM.
20. MOUNT GRILLE ABOVE JANITOR SINK AT 9'-0".
21. MAINTAIN CLEARANCE TO COMBUSTIBLES WHERE GREASE DUCTWORK PENETRATES PLYWOOD CEILING SUPPORT STRUCTURE.
22. ROUTE DUCTWORK ABOVE KITCHEN/SCULLERY AREA'S TIGHT TO CEILING SUPPORT STRUCTURE. PROVIDE GALVANIZED STEEL ELBOWS AND DUCTWORK AT PENETRATIONS OF STRUCTURE TO PLENUM BEFORE TRANSITIONING TO FLEXIBLE DUCTWORK AT DIFFUSERS. COORDINATE ALL PENETRATIONS WITH CEILING SUPPORT STRUCTURE.
23. THE HOOD STAINLESS STEEL BACK PANELING PROVIDE BY CAPTIVE AIR HOOD MFG.

a 2

PROVIDE DUCTWORK LINER FOR ALL DUCTWORK EXCEPT GREASE EXHAUST AND SCULLERY EXHAUST

WHERE DUCTWORK IS LOCATED ABOVE A CEILING, ROUTE DUCTWORK DOWN FROM ROOF TO TIGHT ABOVE CEILING STRUCTURE

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

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365 BY WHOLE FOODS MARKET

Project Manager: SGP
Checked By:
Drawn by: SGP
Document date: 05/21/18
Template date:

Project No.
62911019

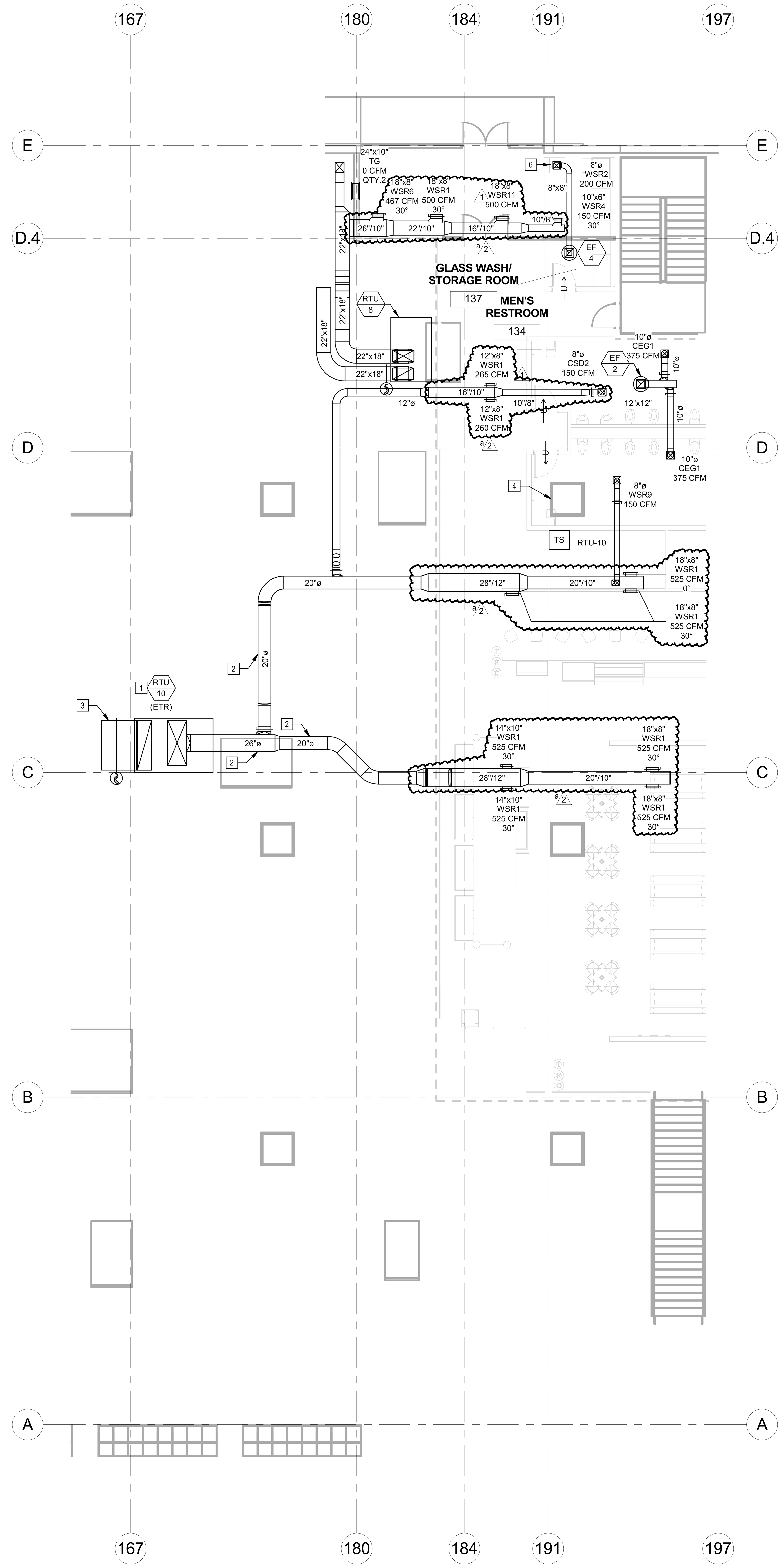
Professional Seal

05/21/2018

Sheet Title
MECHANICAL PLAN

Sheet No. M100

5/21/2018 1:52:48 PM



1 MECHANICAL MEZZANINE PLAN
1/8" = 1'-0"

KEYNOTES:

1 ROOFTOP UNIT PROVIDED BY LANDLORD AS PART OF THE BUILDING SHELL PACKAGE. CONNECT TO FULL SIZE SUPPLY AND RETURN DROPS OFF ROOFTOP UNIT AND MODIFY EXISTING DROPS AS NECESSARY TO INSTALL DUCTWORK AS SHOWN.

2 ROUTE DUCTWORK LEVEL, TIGHT TO STRUCTURE, AND ABOVE LIGHTS. COORDINATE WITH STRUCTURAL AND ELECTRICAL.

3 PROVIDE FULL SIZE RETURN DUCT DOWN AND OFFSET 36" HORIZONTAL FROM UNIT TIGHT TO STRUCTURE WITH 1" ACOUSTICAL LINER AND 3/4" WIRE MESH SCREEN ON INLET..

4 DO NOT ROUTE DUCTWORK OR PIPING UNDER SKYLIGHTS.

5 ROUTE DUCTWORK FROM RETURN GRILLE UP THROUGH CEILING SUPPORT STRUCTURE ABOVE BEFORE TURNING HORIZONTALLY. SEE DETAIL FOR RETURN GRILLE BOOT.

6 MOUNT GRILLE ABOVE JANITOR SINK AT 9'-0".

PROVIDE DUCTWORK LINER FOR ALL DUCTWORK EXCEPT GREASE EXHAUST AND SCULLERY EXHAUST

WHERE DUCTWORK IS LOCATED ABOVE A CEILING, ROUTE DUCTWORK DOWN FROM ROOF TO TIGHT ABOVE CEILING STRUCTURE

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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7330 San Pedro Avenue, Suite 402
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PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

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Project Manager: SGP
Checked By:
Drawn by: SGP
Document date: 05/21/18
Template date:

Project No.
62911019

Professional Seal

05/21/2018

Sheet Title
MECHANICAL MEZZANINE PLAN

Sheet No. **M101**

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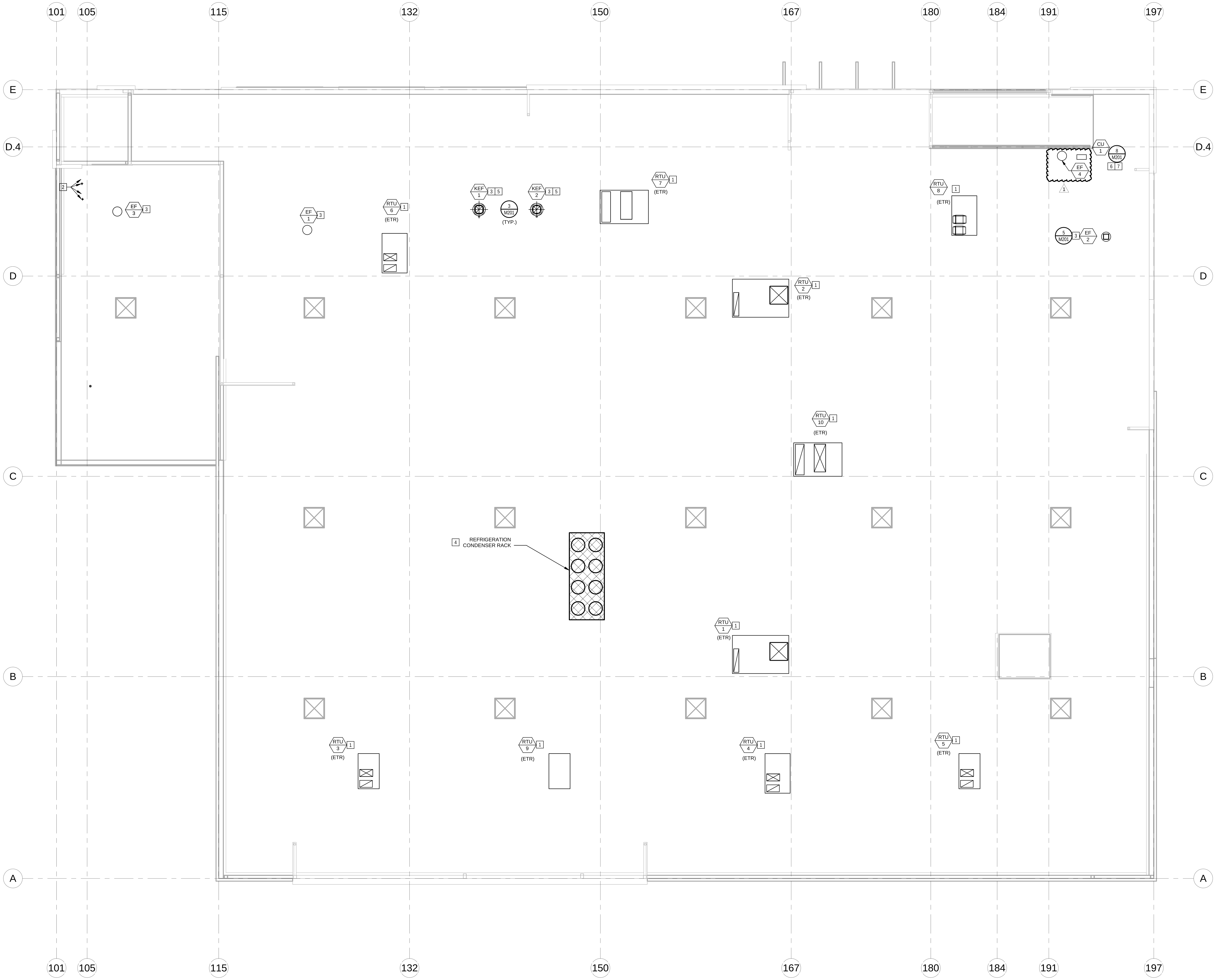

1 MECHANICAL ROOF PLAN

1/8" = 1'-0"

KEYNOTES:

1. ROOFTOP UNIT PROVIDED BY LANDLORD AS PART OF THE BUILDING SHELL PACKAGE.
2. PROVIDE COMBINATION CONCENTRIC INTAKE VENT AND EXHAUST FLUE FROM EACH UNIT UP THROUGH ROOF AND TERMINATE WITH SAME MANUFACTURE'S TERMINATION KIT IN COMPLIANCE WITH LOCAL CODES AND MINIMUM 10'-0" SEPARATION FROM ALL AIR INTAKES. REFER TO SPECIFICATIONS AND MANUFACTUREER REQUIREMENTS FOR APPROVED FLUE AND INTAKE MATERIALS AND SIZES FOR UNIT OPERATING TEMPERATURE.
3. PROVIDE ROOF-MOUNTED EXHAUST FAN. MAINTAIN A MINIMUM 10'-0" SEPARATION FROM ALL AIR INTAKES.
4. REFERENCE REFRIGERATION PLANS FOR ADDITIONAL INFORMATION.
5. VENTED CURBS ARE PROVIDED DUE TO LEAD TIME WITH SUPPLIER. IF FIRE WRAP IS UTILIZED INSTEAD OF FIRE RATED ENCLOSURE PER SPECIFICATIONS FOR GREASE DUCT THEN THE CONTRACTOR SHALL PROVIDE GALVANIZED STEEL BLANK OFFS TO COVER VENTS ON INTERIOR SIDE OF ROOF CURB.
6. PROVIDE REFRIGERATION LINE SETS ROUTED BETWEEN INDOOR UNIT AND CONDENSING UNIT MOUNTED ON ROOF. REFRIGERATION PIPING SIZED AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
7. INSTALL EQUIPMENT ON SUPPORT RAIL.

3/6/2018 6:35:13 PM

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET
1	03/06/18	ADDENDUM 1

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365 BY WHOLE FOODS MARKET

Project Manager: SGP

Checked By:

Drawn by: SGP

Document date: 01/26/18

Template date:

Project No.

62911019

Professional Seal

03/06/2018

Sheet Title

MECHANICAL ROOF PLAN

Sheet No.

M102

GRILLE, REGISTER, AND DIFFUSER SCHEDULE						
MARK	MANUFACTUER	MODEL	SERVICE TYPE	MOUNTING TYPE	FACE SIZE (IN)	NOTES
CEG1	E.H. PRICE	80	EXHAUST GRILLE	GYPSUM CEILING	12"x12"	A-C, F, M
CRG1	E.H. PRICE	80	RETURN/TRANSFER GRILLE	GYPSUM CEILING	12"x12"	A-C, F
CRG2	E.H. PRICE	80	RETURN/TRANSFER GRILLE	GYPSUM CEILING	24"x12"	A-C, F
CSD1	E.H. PRICE	ASCD	SUPPLY DIFFUSER	GYPSUM CEILING	12"x12"	A, C, F, J, L, M, N
CSD2	E.H. PRICE	SCD	SUPPLY DIFFUSER	GYPSUM CEILING	12"x12"	A-C, F, M
LSD1	E.H. PRICE	SDS	LINEAR SLOT DIFFUSER - (4) 1" SLOTS	GYPSUM CEILING	48"	A-C, K, M
WRG1	E.H. PRICE	535D	RETURN/TRANSFER GRILLE	WALL OR DUCT	REFER TO PLANS	A, B, D, G
WSR1	E.H. PRICE	SDGE	CURVED FACE SUPPLY REGISTER W/ DAMPER	DUCT	REFER TO PLANS	A, D, E, H
WSR2	E.H. PRICE	520	SUPPLY REGISTER W/ DAMPER	DUCT	REFER TO PLANS	A, D, E, H

NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED BY DIVISION 23.
B. PROVIDE ALL STEEL CONSTRUCTION WITH ENAMEL WHITE FINISH.
C. FRAM TYPE TO MATCH CEILING CONSTRUCTION, COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
D. REFERENCE PLANS FOR NOMINAL REGISTER OR GRILLE FACE SIZE.
E. PROVIDE REGISTER WITH DAMPER AND DOUBLE DEFLECTION BLADES PARALLEL TO LONG DIMENSION.
F. PROVIDE DUCT COLLAR EQUAL TO BRANCH DUCT SIZE INDICATED ON PLANS.
G. PROVIDE OPPOSED BLADE DAMPER ADJUSTABLE FROM FACE OF DEVICE.
H. PROVIDE ALL ALUMINUM CONSTRUCTION TO MATCH EXPOSED DUCTWORK.
J. PROVIDE ALL ALUMINUM CONSTRUCTION WITH ENAMEL WHITE FINISH.
K. PROVIDE 48" LONG, (4) 1" SLOT LINEAR DIFFUSER WITH PRICE MODEL SDB INSULATED PLENUM AND DUCT CONNECTION.
L. PROVIDE AIR DEVICE FOR 3-WAY THROW (WHERE INDICATED ON THE DRAWINGS).
M. CONTRACTOR SHALL PROVIDE REMOTE CABLE-OPERATED VOLUME DAMPER BY METROPOLITAN AIR TECHNOLOGIES MODEL RT-50 WITH EXTERNAL WORM GEAR OPERATOR OR EQUIVALENT YOUNG REGULATOR BUTTERFLY DAMPER WITH 270-275 CONTROLLER. OPERATOR SHALL HAVE A SQUARE DRIVE FOR 1/4" NUT DRIVER. DAMPER ASSEMBLY SHALL INCLUDE GALVANIZED STEEL DUCT WITH ROLLED BEAD STIFFENERS, REINFORCED BLADE, SELF LUBRICATING BEARING AND WORM GEAR MOUNTING PLATE. DAMPER SHALL BE INSTALLED IN BRANCH DUCT NOT INLET OF PLENUM DIFFUSER. (RE: M201)
N. PROVIDE DIFFUSER WITH SECTORIZING BAFFLE (SB) IN NECK OF DIFFUSER TO DISCHARGE AIR AWAY FROM KITCHEN HOODS.

EXISTING AIR CURTAIN SCHEDULE (ELECTRIC HEAT)													
						FAN				ELECTRIC HEATER			
MARK	AREA SERVED	MANUFACTURER	MODEL	LENGTH (IN)	MAX AIRFLOW	FAN QUANTITY	MOTOR HP	VOLTS	PH	HEATING CAPACITY (KW)	VOLTS	PH	NOTES
AC-1	VESTIBULE	MARS	PH12120-E2-PW	120"	5515	2	1.00	208	1	24.0	480	3	A-E

NOTES:
A. EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY DIVISION 23.
B. REFER TO ADDITIONAL MECHANICAL SYSTEMS CONTROLS FOR UNIT CONTROLS.
C. PROVIDE MANUAL TOGGLE OVERRISE SWITCH ON UNIT AND REMOTE DISCONNECT SWITCH FOR INSTALLATION BY DIVISION 26.
D. MOUNT UNIT PER MANUFACTURERS RECOMMENDATIONS CONCEALED IN CEILING.
E. FURNISH WITH MANUFACTURER'S THERMOSTAT FOR INSTALLATION BY DIVISION 26. DIVISION 26 SHALL INTERLOCK FAN WITH THERMOSTAT.
F. EQUIPMENT SUPPLIED AND INSTALLED BY LANDLORD.

AIR CURTAIN SCHEDULE (NO HEAT)										
								ELECTRICAL		
MARK	AREA SERVED	MANUFACTURER	MODEL	LENGTH (IN)	MAX AIRFLOW	FAN QUANTITY	MOTOR HP	VOLTS	PH	NOTES
AC-2	RECEIVING DOOR	MARS	STD260-2U-OB	60"	2700	2	0.50	208	1	A-E

NOTES:
A. EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY DIVISION 23.
B. REFER TO ADDITIONAL MECHANICAL SYSTEMS CONTROLS FOR UNIT CONTROLS.
C. SUSPEND UNIT FROM STRUCTURE PER MANUFACTURER'S RECOMMENDATIONS.
D. PROVIDE MANUAL TOGGLE OVERRISE SWITCH ON UNIT AND REMOTE DISCONNECT SWITCH FOR INSTALLATION BY DIVISION 26.
E. PROVIDE AIR CURTAIN WITH NORMALLY CLOSED DOOR LIMIT SWITCH FOR INSTALLATION ON DOOR. THE AIR CURTAIN SHALL ENERGIZE WHEN DOOR OPENS.

ADDITIONAL MECHANICAL SYSTEMS CONTROL:

GENERAL PROVISIONS BY DIVISION 23:

1. ENERGY MANAGEMENT PANEL TO CONTROL ROOFTOP UNITS AND OTHER HVAC EQUIPMENT AS NOTED ON PLANS BY REMOTE TEMPERATURE AND HUMIDITY SENSORS. REFER TO EMS DRAWINGS EM000 FOR LOCATIONS AND MOUNTING HEIGHTS INFORMATION.

2. EMS CONTROL PANEL LOCATED IN MAIN ELECTRICAL ROOM.

3. EMS CONTRACTOR TO INSTALL ALL CONTROLS FURNISHED BY 365. COORDINATE WITH JUAN CEBRERA WTH SIEMENS juancabrera@siemens.com.

4. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL INFORMATION.

AIR CURTAINS:

1. VESTIBULE AIR CURTAIN FANS ARE STARTED BY EMS BASED UPON DOOR OPERATION.

2. ELECTRIC HEAT IN AIR CURTAIN IS CONTROLLER BY WALL TEMPERATURE SENSOR. HEAT TO ONLY OPERATE DURING FAN OPERATION TO MAINTAIN 65 DEGREES F (ADJUSTABLE).

3. RECEIVING DOCK AIR CURTAIN FANS STARTED BY DOOR LIMIT SWITCH.

4. ADJUST MULTI-SPEED FAN AND DISCHARGE LOUVER BLADES PER MANUFACTURER GUIDELINES.

SERVER ROOM SPLIT SYSTEM:

1. CONTROL INTERIOR FAN COIL UNIT WITH INTEGRAL THERMOSTAT INTERLOCKED WITH EXTERIOR CONDENSING UNIT. CYCLE COOLING TO MAINTAIN ROOM THERMOSTAT SETPOINT (75 DEGREES F COOLING, ADJUSTABLE).

2. WHEN THE SEPARATE ROOM TEMPERATURE SENSOR REACHES SETPOINT (80 DEGREES F, ADJUSTABLE), IT SHALL ACTIVATE THE TOWER LIGHT ALARM.

KITCHEN EXHAUST HOOD AND EXHAUST FAN:

1. EXHAUST HOOD FAN OR DIRECT EQUIPMENT EXHAUST FANS ARE CONTROLLED BY A TOGGLE SWITCH MOUNTED ON HOOD OR DIRECT INTERCONNECTION WITH EQUIPMENT.

2. EXHAUST HOOD FANS (KEF-1 & KEF-2) SHALL ENERGIZE IF TEMPERATURE PROBES MEASURE 95 DEGREES F OR HIGHER (ADJUSTABLE) EVEN IF MANUAL HOOD SWITCH IS OFF TO COMPLY WITH 2012 IMC 507.2.1.1 OR EQUIVALENT LOCAL CODE. CAPTIVE AIRE PROVIDE TEMPERATURE PROBE SENSOR.

3. UPON ACTIVATION OF HOOD FIRE SUPPRESSION SYSTEM, EXHAUST HOOD SHALL BE WIRED TO SHUT DOWN RTU-1, RTU-2, AND RTU-6 ROOFTOP UNIT SUPPLY FANS AND HOOD EXHAUST FAN SHAL REMAIN RUNNING PER NFPA 96.

4. INTERLOCK EXHAUST HOOD AND FAN SO THAT ROOFTOP UNITS RTU-1 AND RTU-2 ARE ENERGIZED WITH THE OUTSIDE AIR DAMPERS OPEN WHEN KITCHEN EXHAUST HOOD FANS ARE ENERGIZED.

SCULLERY DISHWASHER EXHAUST FAN:

1. EXHAUST FAN IS CONTROLLED BY TIME DELAY AND DIRECT INTERCONNECTION WITH DISHWASHER.

2. EXHAUST FAN SHALL ENERGIZE IF DISHWASHER ENERGIZES AND SHALL REMAIN RUNNING FOR 30 MINUTES AFTER DISHWASHER CYCLE COMPLETES.

3. EXHAUST FAN LOCAL OVERRISE SWITCH SHALL ENERGIZE EXHAUST FAN ON AND BYPASS TIMER AND DISHWASHER AUTOMATIC CONTROL.

RESTROOM/JANITOR EXHAUST FAN:

1. EXHAUST FAN STARTED BY EMS FOR OCCUPIED/UNOCCUPIED HOURS OF OPERATION.

BUILDING AIR BALANCE SCHEDULE					
EXHAUST	SERVES			EXHAUST (CFM)	TOTALS (CFM)
KEF 1	H 1	KITCHEN		3300	
KEF 2	H 2	KITCHEN		2580	
EF 1		SCULLERY		800	
EF 2		RESTROOMS		750	
EF 3		JANITOR		200	
EF 4		GLASS WASH/STORAGE ROOM		200	
TOTAL EXHAUST					7,830
MAKEUP AIR	SUPPLY AIR (CFM)	SERVES	DESIGN OA (CFM)	PERCENT OA/SA	
RTU 1	5500	SALES FLOOR	3000	58%	
RTU 2	5500	SALES FLOOR	3000	58%	
RTU 3	2000	FRIENDS	250	12.5%	
RTU 4	3000	SEATING	0	0%	
RTU 5	2000	FRIENDS	250	12.5%	
RTU 6	3000	KITCHEN / SCULLERY	375	12.5%	
RTU 7	6000	RECEIVING	650	10.8%	
RTU 8	1600	OFFICES	225	14%	
RTU 9	2000	VESTIBULE	0	0%	
RTU 10	4500	MEZZANINE	550	12%	
TOTAL OUTSIDE AIR			8,300		8,300
			TOTAL POSITIVE AIR FLOW		470
			PERCENT POSITIVE AIRFLOW		5%

EXISTING ROOFTOP UNIT SCHEDULE (NATURAL GAS HEAT)																														
					SUPPLY FAN			COOLING COIL							HEATING							ELECTRICAL						
											EAT		LAT														
MARK	SERVICE	MANUFACTURER	MODEL	NOMINAL TONS	CFM	ESP (IN)	MIN HP	REFR TYPE	TH (MBH)	SH (MBH)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	MIN OUTPUT (MBH)	NOM INPUT (MBH)	MIN EFF (%)	MIN NO STAGES	HTG LAT	MIN. O/A CFM	MIN EER/SEER	VOLTS	PH	MCA	MOCP	WEIGHT (LBS)	NOTES
RTU 1	SALES FLOOR	MUNTERS	HCUc6030	30	5500	1	7.5	R410A	384.80	174.10	78.8	69.63	65.0	50.9	480.0	600.0	80	5	123	3000	12.1	480	3	82.9	90	6000	A-G, K
RTU 2	SALES FLOOR	MUNTERS	HCUc6030	30	5500	1	7.5	R410A	384.80	174.10	78.8	69.63	65.0	50.9	480.0	600.0	80	5	123	3000	12.1	480	3	82.9	90	6000	A-G, K
RTU 3	FRIENDS	TRANE	YHC060	5	2000	1	1	R410A	50.95	43.98	78.2	64.1	55.7	54.3	49.8	60.0	80	1	90	250	12	480	3	13.8	20	770	A-F, H, K
RTU 4	SEATING	TRANE	YHC092	7.5	3000	1	3.75	R410A	80.11	64.19	79.2	64.3	57.0	53.9	120.0	150.0	80	2	95	0	12.6	480	3	20.7	25	1300	A-F, H, K
RTU 5	FRIENDS	TRANE	YHC060	5	2000	1	1	R410A	50.95	43.98	78.2	64.1	55.7	54.3	104.0	130.0	80	1	90	250	12	480	3	13.8	20	770	A-F, H, K
RTU 6	KITCHEN	TRANE	YHC092	7.5	3000	1	3.75	R410A	80.11	64.19	79.2	64.3	57.0	53.9	96.0	120.0	80	2	95	375	12.6	480	3	20.7	25	1300	A-F, H, J
RTU 7	RECEIVING	TRANE	YHD180	15	6000	1	3	R410A	162.43	116.03	77.7	66.7	57.1	56.0	203.0	250.0	80	2	95	650	12	480	3	35.0	45	3000	A-F, H, J
RTU 8	OFFICES	TRANE	YHC102	8.5	3200	1	3	R410A	103.00	84.00	79.4	67.6	59.5	57.9	97.2	120.0	80	1	90	450	11.5	480	3	25.5	35	893	A-F, H, J
RTU 9	VESTIBULE	TRANE	YHC060	5	2000	1	1	R410A	50.95	43.98	78.2	64.1	55.7	54.3	49.8	60.0	80	1	90	0	12	480	3	13.8	20	770	A-F, H, J
RTU 10	MEZZANINE	TRANE	YHD150	12.5	4500	1	1	R410A	120.65	102.65	78.2	64.1	55.7	54.3	122.0	150.0	80	2	90	550	12.1	480	3	30.0	40	2207	A-F, H, J

NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED BY LANDLORD.
B. EXISTING UNIT SHALL BE BALANCED TO CFM AS SCHEDULED.
C. MODIFY EXISTING ROOFTOP UNIT DDC TO COMPLY WITH THE ROOFTOP UNIT MATRIX AND ADDITIONAL MECHANICAL SYSTEMS CONTROL. PROVIDE NEW COMPONENTS AS REQUIRED.
D. REFER TO ROOFTOP UNIT CONTROL MATRIX ON THIS SHEET FOR CONTROL FEATURES, MODULES, AND ACCESSORIES THAT SHALL BE PROVIDED WITH THE EQUIPMENT.
E. REPLACE FILTERS PRIOR TO TEST AND BALANCE AT COMPLETION OF TENANT FINISH.
F. DIVISION 28 TO CONFIRM EXISTING SMOKE DETECTORS AND PROVIDE IF NOT EXISTING. SMOKE DETECTORS SHALL SHUT DOWN UNIT UPON DETECTION OF SMOKE.
G. TEMPERATURE AND HUMIDITY SENSORS AS SHOWN ON PLANS PROVIDED BY EMS CONTRACTOR.
H. PROVIDE SIEMENS TEMPERATURE SENSOR. INSTALLED BY EMS CONTRACTOR.
J. ECONOMIZER PROVIDED WITH UNIT TO MODULATE OUTSIDE AIR.
K. DISABLE ECONOMIZER FUNCTION. UNIT SERVES SPACE WITH REFRIGERATED CASES.

MANUFACTURER CONTACT INFORMATION:
MUNTERS :TODD SMITH, (770) 943-3002, TODD.SMITH@MUNTERS.COM
TRANE: ETHAN KINSEY, (469) 758-3102, ETHAN.KINSEY@TRANE.COM

ROOFTOP UNIT CONTROL MATRIX													
CONTROL FEATURE	UNITS	RTU-1 SETPOINT OR Y/NO	RTU-2 SETPOINT OR Y/NO	RTU-3 SETPOINT OR Y/NO	RTU-4 SETPOINT OR Y/NO	RTU-5 SETPOINT OR Y/NO	RTU-6 SETPOINT OR Y/NO	RTU-7 SETPOINT OR Y/NO	RTU-8 SETPOINT OR Y/NO	RTU-9 SETPOINT OR Y/NO	RTU-10 SETPOINT OR Y/NO	POINT TYPE INTERFACE WITH DDC (READ/WRITE)	NOTES
ENERGY MANAGEMENT SYSTEM (EMS)													
EMS MONITORING AND MANAGEMENT INTERFACE		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	BACNET	A
SETPOINTS													
COOLING - OCCUPIED SETPOINT	°F	72	72	72	72	72	72	72	72	72	72	READ/WRITE	
COOLING - UNOCCUPIED SETPOINT	°F	74	74	74	74	74	74	74	74	74	74	READ/WRITE	
DEAD BAND - MINIMUM HEATING AND COOLING TEMPERATURE SETPOINT DIFFERENCE	°F	4	4	4	4	4	4	4	4	4	4		
HEATING - OCCUPIED SETPOINT	°F	68	68	68	68	68	67	67	70	67	68	READ/WRITE	
HEATING - UNOCCUPIED SETPOINT	°F	66	66	66	66	66	66	66	66	66	66	READ/WRITE	
DEHUMIDIFICATION SETPOINT (OCCUPIED/UNOCCUPIED) - HUMIDITY SENSOR FEEDBACK	DP (°F)	47	47	N	N	N	N	N	N	N	N	READ/WRITE	B
PROGRAMMED CONTROL FEATURES													
HVAC SYSTEM OCCUPIED/UNOCCUPIED MODE - PROGRAMMABLE THERMOSTAT		N	N	N	N	N	N	N	N	N	N	READ	B
REMOTE TEMPERATURE SENSOR		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	READ	B
EQUIPMENT ACCESSORIES AND CONTROL MODULES													
OUTSIDE AIR DAMPER - MOTOR OPERATED (2-POSITION)		Y	Y	Y	Y	Y	N	N	N	N	N	READ STATUS	G
OUTSIDE AIR DAMPER - MOTOR OPERATED (MODULATED)		N	N	N	N	N	Y	Y	Y	Y	Y	READ POSITION	G
INTEGRATED ECONOMIZER - DIFFERENTIAL ENTHALPY ENABLE (OA ENTHALPY < RA ENTHALPY)	BTU/LB	N	N	N	N	N	Y	Y	Y	Y	Y	READ	D
ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD) SYSTEM		N	N	N	N	N	Y	Y	Y	Y	Y	READ	E, F
RELIEF - BAROMETRIC DAMPER		N	N	N	N	N	Y	Y	Y	Y	Y		
COOLING COIL (DX - STAGED)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	READ STATUS	H
DEHUMIDIFICATION - HOT GAS REHEAT		N	N	N	N	N	N	N	N	N	N	READ STATUS	J
DEHUMIDIFICATION DESICCANT WHEEL		Y	Y	N	N	N	N	N	N	N	N		J
HEATING COIL (NATURAL GAS)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	READ STATUS	H
SUPPLY FAN CONTROL METHOD													
ON DURING OCCUPIED HOURS		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
CYCLE WITH LOADS DURING UNOCCUPIED HOURS		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
OPTIMUM START SEQUENCE		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
CONSTANT VOLUME FAN CONTROL		N	N	Y	Y	Y	Y	Y	Y	Y	Y	READ STATUS	
VARIABLE VOLUME - MODULATE FAN SPEED FOR PRESSUR BALANCE PURPOSE		Y	Y	N	N	N	N	N	N	N	N	READ STATUS	H, K
SAFETIES, INTERLOCKS, AND ALARMS													
GAS VALVE SAFETY		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	READ	E
SUPPLY AIR SMOKE DETECTOR - SAFETY SHUTDOWN		N	N	N	N	N	N	N	N	N	N	READ	E
RETURN AIR SMOKE DETECTOR - SAFETY SHUTDOWN		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	READ	E
FIRE ALARM CONTROL PANEL - SAFETY SHUTDOWN INTERLOCK		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	READ	C
KITCHEN EXHAUST SYSTEM INTERLOCK		Y	Y	N	N	N	Y	N	N	N	N	READ	L

DIV. 23 CONTRACTOR SHALL COORDINATE WITH 365 CONTROL RESPONSIBILITIES MATRIX ON EM200 FOR CONTROL PANEL(S), WIRING, THERMOSTAT(S), TEMPERATURE SENSOR(S), HUMIDISTAT(S), AND/OR CO2 SENSOR(S) WHERE SHOWN ON THE DRAWINGS AND AS REQUIRED TO FACILITATE THE SCHEDULED CONTROL MODULES AND SEQUENCES OF OPERATION. EACH UNIT SHALL CONTROL BASED ON ITS OWN INTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINAL INTERNAL SAFETIES, TIME DELAYS, AND SEQUENCES UNLESS NOTED OTHERWISE. COORDINATE WITH OWNER FINAL BUILDING AND EQUIPMENT SCHEDULES DURING STARTUP.

NOTES:
A. PROVIDE UNIT WITH TERMINAL STRIP TO RECEIVE CONTROL INPUT(S) COMMUNICATED FROM A CENTRAL DDC CONTROLLER. EMS SHALL PROVIDE REMOTE SETPOINT ADJUSTMENT, SCHEDULING, AND MONITORING OF THE POINTS LISTED IN THE SCHEDULE FOR EACH UNIT.
B. MUNTERS HUMIDITY AND TEMPERATURE SENSORS ARE PROVIDED BY MANUFACTURE. OTHER RTUS TEMPERATURE SENSORS ARE POVIDED BY SIEMENS. REFER TO SPECIFICATIONS FOR DEVICE REQUIREMENTS.
C. DIVISION 28 CONTRACTOR SHALL PROVIDE DEVICE. REFERENCE SPECIFICATIONS FOR SENSOR REQUIREMENTS.
D. THE FOLLOWING SENSORS SHALL DETERMINE ECONOMIZER ON POINT. REFERENCE SPECIFICATIONS FOR DEVICE REQUIREMENTS:
    OUTSIDE AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
    RETURN AIR TEMPERATURE; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
    OUTSIDE AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
    RETURN AIR HUMIDITY; DIVISION 23 PROVIDED AS PART OF ECONOMIZER CONTROL MODULE.
E. DEVICE SHALL BE FACTORY MOUNTED AND PRE-WIRED FOR OPERATION SUBJECT TO THE ONBOARD CONTROLLER.
F. PROVIDE UNIT WITH AN FDD SYSTEM CONSISTING OF PERMANENTLY INSTALLED OUTSIDE AIR, SUPPLY AIR, AND RETURN AIR TEMPERATURE SENSORS. THE UNIT CONTROLLER SHALL AT A MINIMUM BE CAPABLE OF PROVIDING SYSTEM STATUS ECONOMIZER, COMPRESSOR, HEATING, MIXED AIR LOW LIMIT ALARM, AND SENSOR VALUES. EACH OPERATING MODULE SHALL BE CAPABLE OF INDEPENDENTLY OPERATING FOR TESTING. THE SYSTEM SHALL REPORT FAULTS TO AN APPLICATION ACCESSIBLE BY SERVICE RESPECTIVELY, DAMPER NOT MODULATING, AND EXCESS OUTSIDE AIR.
G. DETERMINE MINIMUM DAMPER POSITION IN FIELD DURING BALANCING TO PROVIDE SCHEDULED OUTDOOR AIRFLOW DURING OCCUPIED HOURS. DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS.
H. UNITARY CONTROLLER SHALL MODULATE AND/OR CYCLE SUPPLY FAN SPEED SETTING AND COIL CAPACITY STAGES SUBJECT TO THE INTERNAL SAFETIES AND SEQUENCES TO MAINTAIN SCHEDULED SETPOINTS.
J. PROGRAM DEHUMIDIFICATION SEQUENCE BASED ON ZONE AIR DEWPOINT.
K. PROVIDE MODULATING FAN CONTROL WITH MINIMUM SPEED LESS THAN 50% OF FULL SPEED. AT MINIMUM SPEED THE FAN SHALL DRAW NO MORE THAN 30% OF FULL SPEED POWER. OA DAMPERS SHALL MAINTAIN SCHEDULED VALUES.
L. INTERLOCK RTU WITH KITCHEN EXHAUST HOOD SYSTEM(S) TO SHUT DOWN UPON SIGNAL FROM HOOD FIRE EXTINGUISHING SYSTEM. INTERLOCK RTU WITH KITCHEN EXHAUST FAN TO ENERGIZE WHEN HOOD SYSTEM IS ENERGIZED FOR PRESSURIZATION.

FAN SCHEDULE												
									ELECTRICAL			
MARK	SERVICE	MANUFACTURER	MODEL	MOUNTING / TYPE	CFM	ESP (IN)	DRIVE (BELT/DIRECT)	MIN HP	VOLTS	PH	WEIGHT (LBS)	NOTES
EF 1	SCULLERY	GREENHECK	CUE-121	ROOF / UPBLAST	800	0.40	DIRECT	0.25	120	1	54	A-D
EF 2	RESTROOMS	GREENHECK	G-099	ROOF / DOWNBLAST	750	0.35	DIRECT	0.25	120	1	52	A-C, E
EF 3	JANITORS SINK	GREENHECK	G-070-VG	ROOF / DOWNBLAST	200	0.30	DIRECT	0.17	120	1	50	A-C, E
EF 4	GLASS WASH/STORAGE	GREENHECK	G-070-VG	ROOF / DOWNBLAST	200	0.30	DIRECT	0.17	120	1	50	A-C, E

NOTES:
A. EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY DIVISION 23.
B. PROVIDE WITH MINIMUM 12" HIGH ROOF CURB, BIRDSCREEN AND BACKDRAFT DAMPER.
C. DIVISION 26 SHALL FURNISH AND INSTALL DISCONNECT SWITCH.
D. DIVISION 26 SHALL INTERLOCK EXHAUST FAN WITH TIMBER TO REMAIN RUNNING 30 MINUTES AFTER WASH CYCLE.
E. DIVISION 26 SHALL PROVIDE POWER SWITCHING BREAKER VIA EMS TO RUN DURING OCCUPIED HOURS.

KITCHEN EXHAUST HOODS (H-1 & H-2) AND FANS (KEF-1 & KEF-2) SHALL BE FURNISHED AND INSTALLED BY DIVISION 23. REFER TO SHEETS M300, M302, M303, AND M304.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORITES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

SPLIT SYSTEM FAN UNIT SCHEDULE										
MARK	LOCATION	MANUFACTURER	MODEL	UNIT TYPE	REFR TYPE	CFM (MAX)	COOLING (MBH)	VOLTS	PH	NOTES
FC-1	NETWORK CLOSET	DAIKIN	FTKN24NMVJU	COOLING ONLY	R410A	713	22.0	208	1	A-F

NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED BY DIVISION 23.
B. DIVISION 26 CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION.
C. PROVIDE WALL MOUNTING BRACKET FOR UNIT CONTROLLER WHERE INDICATED ON PLANS. UNIT SHALL HAVE INTEGRAL TEMPERATURE SENSOR.
D. PROVIDE WALL MOUNTING BRACKET AND INSTALL PER MANUFACTURER'S REQUIREMENTS ON WALL.
E. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
F. INDOOR UNIT IS ELECTRICALLY POWERED THROUGH THE OUTDOOR UNIT.

SPLIT SYSTEM CONDENSING UNIT									
MARK	SERVICE	MANUFACTURER	MODEL	VOLTS	PH	MCA	MOCP	WEIGHT (LBS)	NOTES
CU 1	FC 1	DAIKIN	RKN24NMVJU	208	1	18.3	20	20	A-E

NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED BY DIVISION 23.
B. DIVISION 26 CONTRACTOR TO PROVIDE DISCONNECT SWITCH FOR EVAPORATOR SECTION AND CONDENSING SECTION.
C. CONDENSING UNIT AND FAN UNIT SHALL BE WIRED TOGETHER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
D. EQUIPMENT SIZED FOR 105°F AMBIENT TEMPERATURE.
E. CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

GAS FIRED UNIT HEATER SCHEDULE																	
							MOTOR										
MARK	AREA SERVED	MANUFACTURER	MODEL	INPUT MBH	OUTPUT MBH	TOTAL CFM	HP	VOLTS	PH	FLA	MOCP	VENT DIA.(IN.)	INTERLOCK WITH	WEIGHT LBS	NOTES	ACCESSORIES
GUH-1	RECEIVING	REZNOR	UDAP-200	200	166	2562	1/4	115	1	4.5	15	5	EMS	187	1 THRU 7	1 THRU 5

NOTES:
1. OUTPUT RATINGS ARE FOR UP TO 2000 FT.
2. UNIT SHALL BE INSTALLED SO THAT REQUIRED CLEARANCES ARE MAINTAINED.
3. MOTOR SHALL HAVE OVERLOAD PROTECTION.
4. UNIT SHALL BE COMPLETE WITH FACTORY INSTALLED 24-VOLT CONTROL TRANSFORMER.
5. UNIT SHALL BE PROVIDED WITH ELECTRONIC IGNITION.
6. HEAT EXCHANGERS SHALL BE TYPE 409 STAINLESS STEEL.
7. BURNERS SHALL BE ALUMINIZED STEEL.

ACCESSORIES:
1. ELECTRONIC IGNITION.
2. SINGLE STAGE COMBINATION GAS VALVE.
3. FAN GUARD.
4. 4-POINT SUSPENSION SYSTEM.
5. 30 DEGREE DOWNTURN NOZZLE.

brr

Architect of Record:
BOYD W. RAU
5700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

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Energy Squared Texas
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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET
1	03/06/18	ADDENDUM 1

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: SGP
Checked By:
Drawn by: SGP
Document date: 01/26/18
Template date:

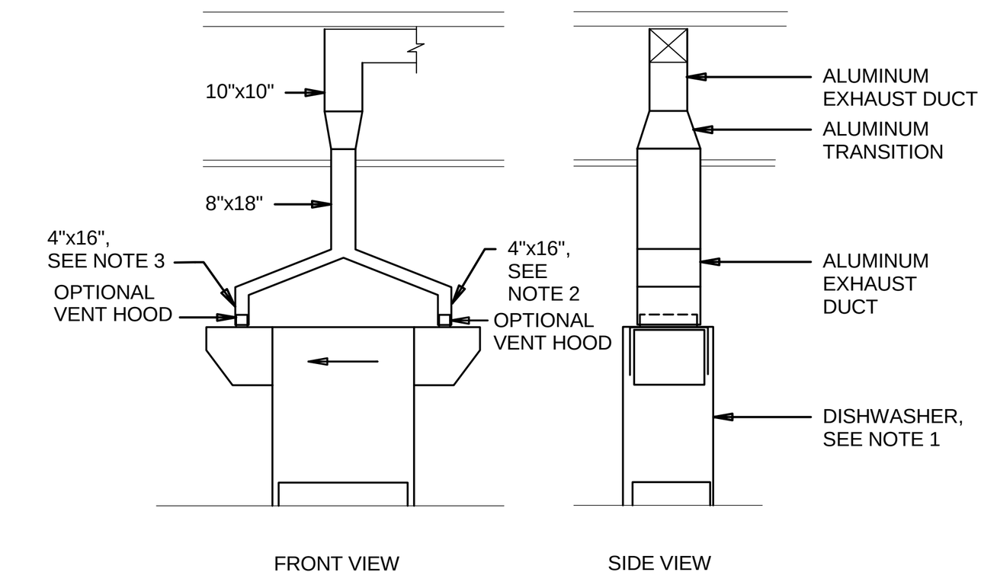
Project No.
62911019

Professional Seal

03/06/2018

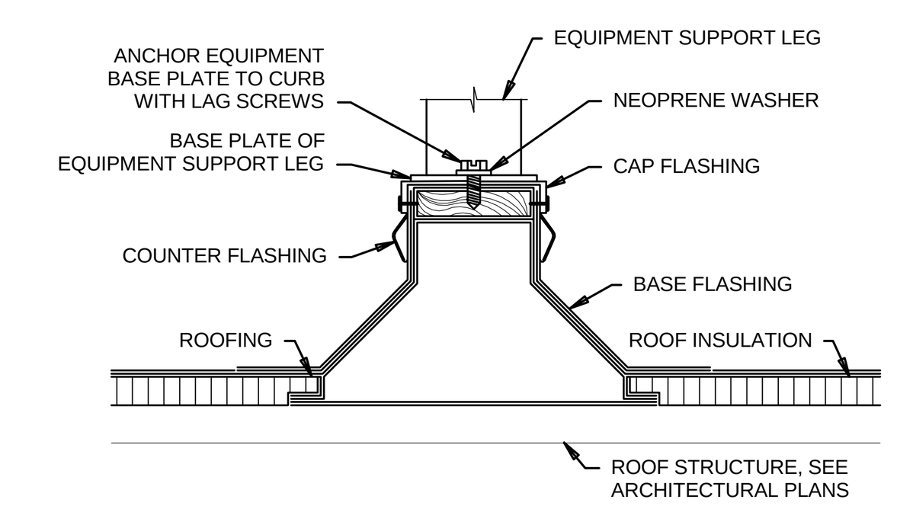
Sheet Title
MECHANICAL SCHEDULES

Sheet No.
M200

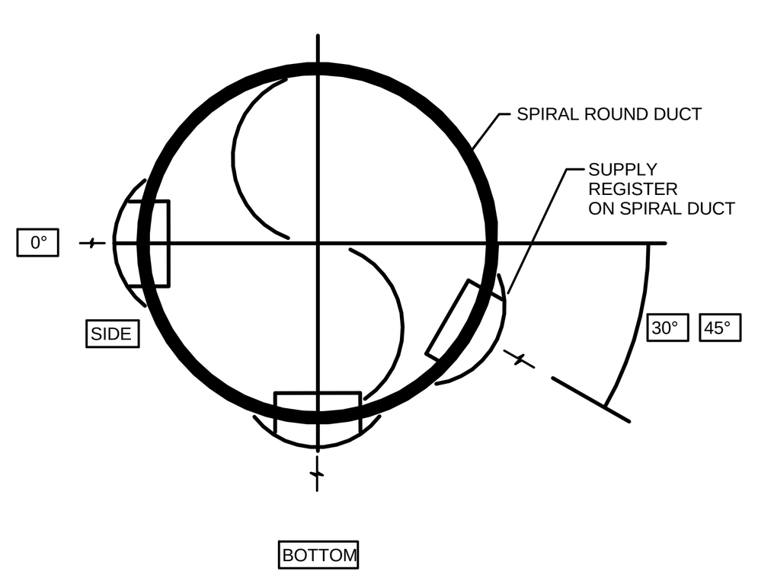


NOTES:
1. VENT HOOD AND DAMPER CONTROL PROVIDED WITH DISHWASHER. CONNECT ALUMINUM EXHAUST DUCT AND BALANCE ENTRANCE END TO 200 CFM PER MANUFACTURER'S REQUIREMENTS.
2. VENT HOOD AND DAMPER CONTROL PROVIDED WITH DISHWASHER. CONNECT ALUMINUM EXHAUST DUCT AND BALANCE DISCHARGE END TO 400 CFM PER MANUFACTURER'S REQUIREMENTS.

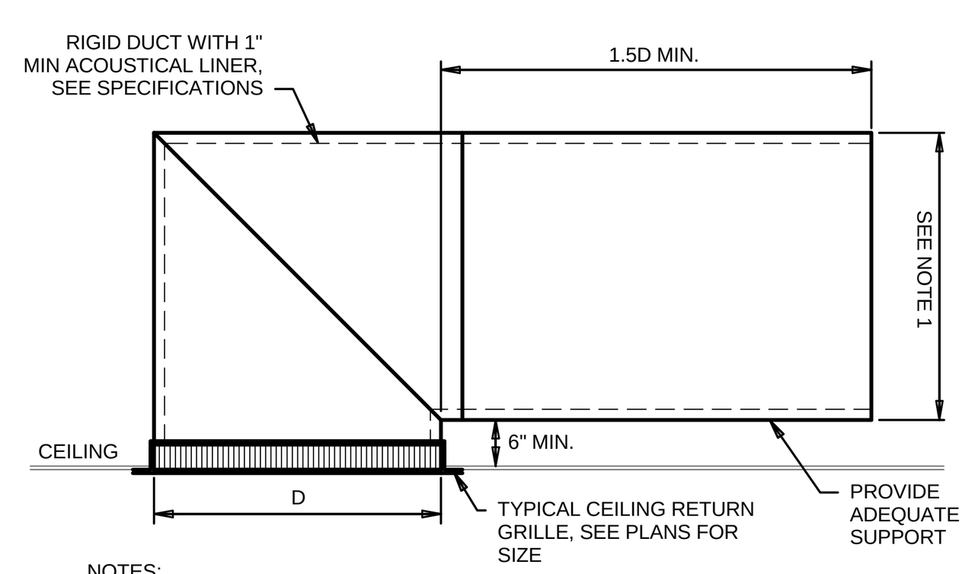
9 DISHWASHER EXHAUST DUCT DETAIL
1/8" = 1'-0"



8 ROOF EQUIPMENT SUPPORT RAIL DETAIL
1/8" = 1'-0"

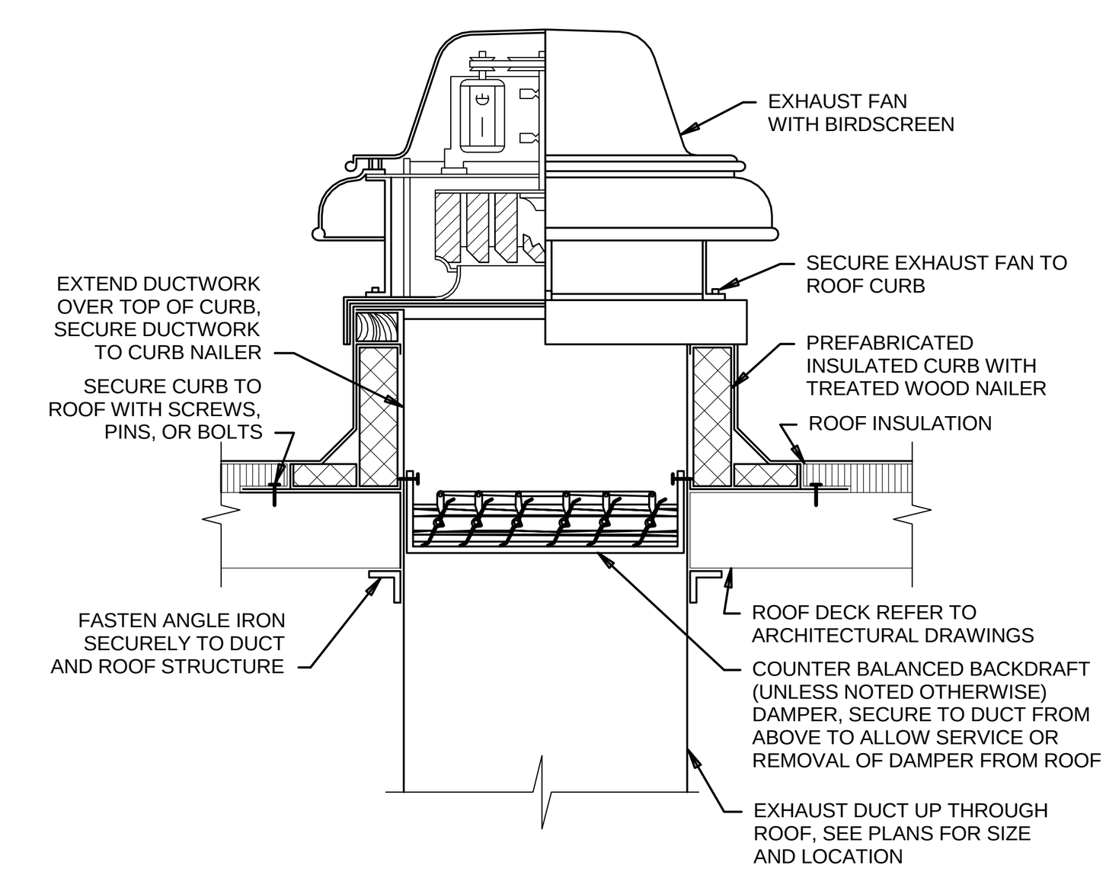


7 WSR MOUNTING TO SPIRAL DUCTWORK
1/8" = 1'-0"

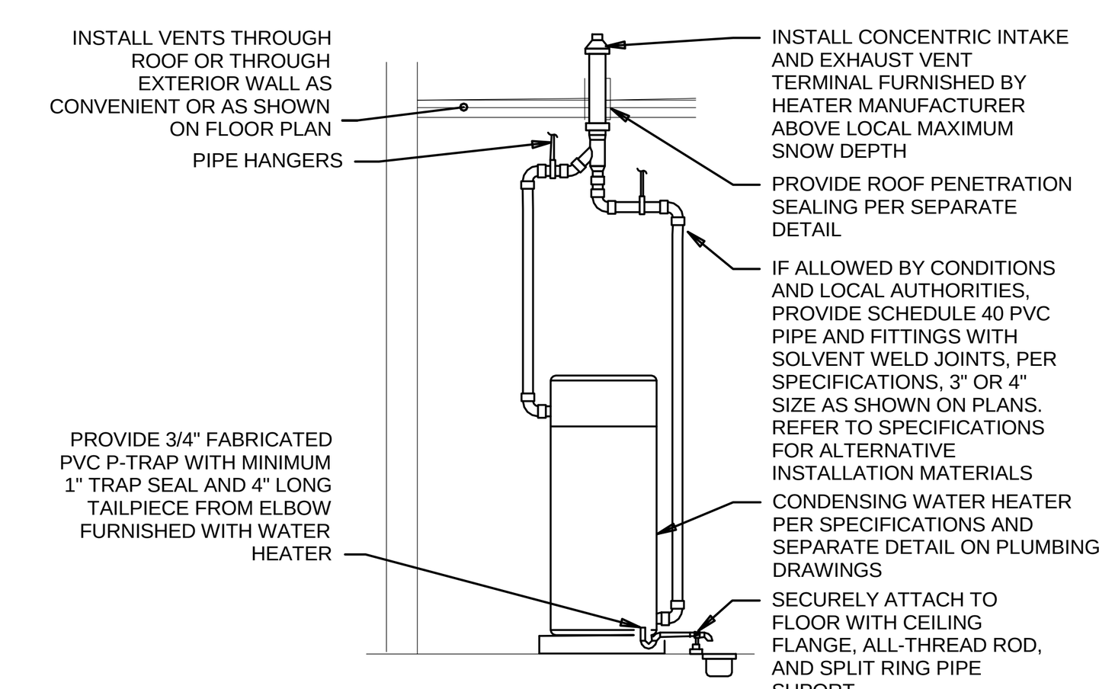


NOTES:
1. REFER TO FLOOR PLAN FOR OUTLET DEPTH. WHEN NO DEPTH IS SHOWN, MINIMUM DEPTH SHALL BE 0.5 D OR AS REQUIRED TO LIMIT AIR VELOCITY TO 1,000 FPM OR LESS.

6 CEILING RETURN GRILLE BOOT DETAIL
1/8" = 1'-0"

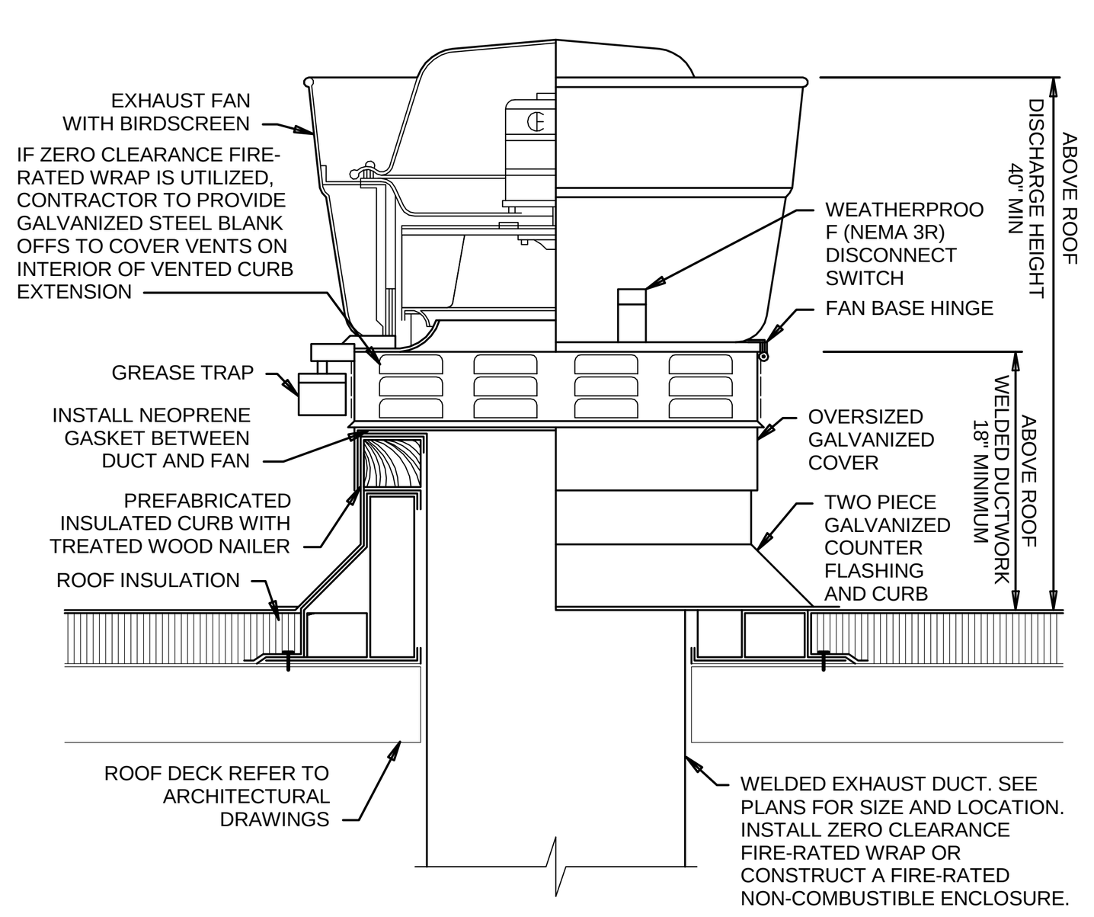


5 DOWNBLAST EXHAUST FAN DETAIL
1/8" = 1'-0"

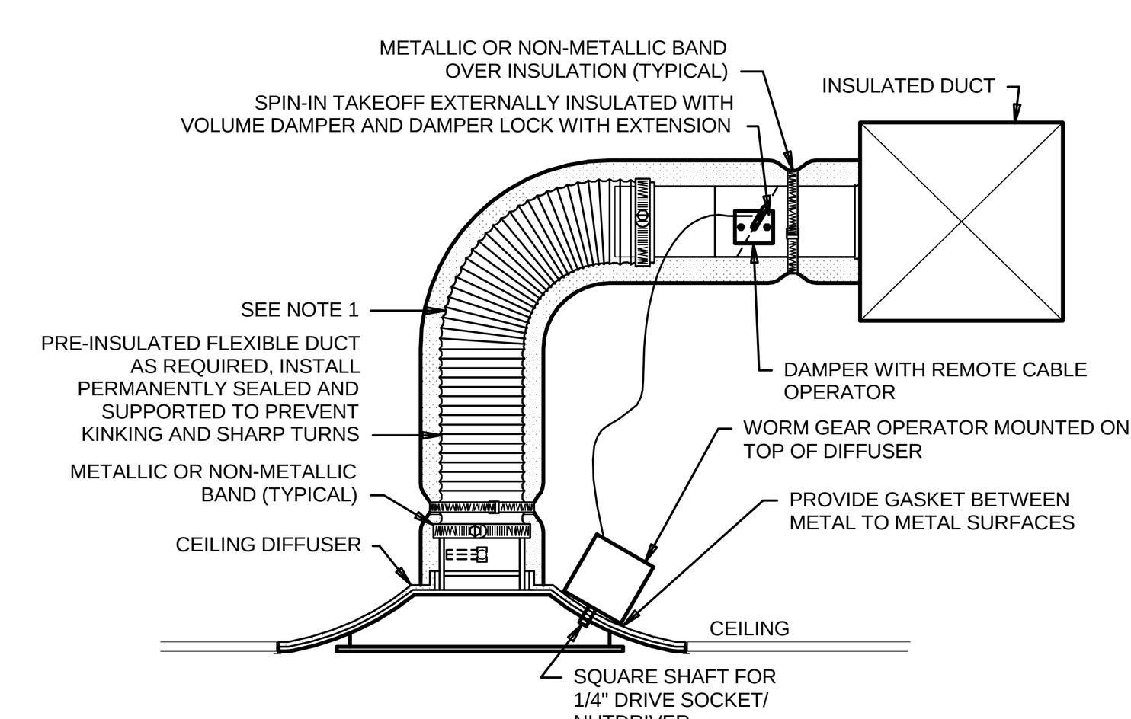


DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. ADJUST TO SUIT FIELD CONDITIONS. INSTALL THROUGH ROOF OR THROUGH WALL AS SHOWN ON PLANS. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR MORE INFORMATION. MAINTAIN PROPER DISTANCES FROM EACH OTHER, AND FROM OTHER CONSTRUCTION FEATURES; VERIFY PIPE SIZE FOR MAXIMUM LENGTH OF RUN AND QUANTITY OF FITTINGS. DO NOT INSTALL BARE PVC PIPE IN AIR PATH PLENUMS: WRAP PIPE WITH FIRE-BARRIER INSULATION IF ALLOWED BY LOCAL AUTHORITIES, OR PROVIDE STAINLESS STEEL VENT PIPE, PER SPECIFICATIONS.

4 SEALED COMBUSTION WATER HEATER VENTS
1/8" = 1'-0"

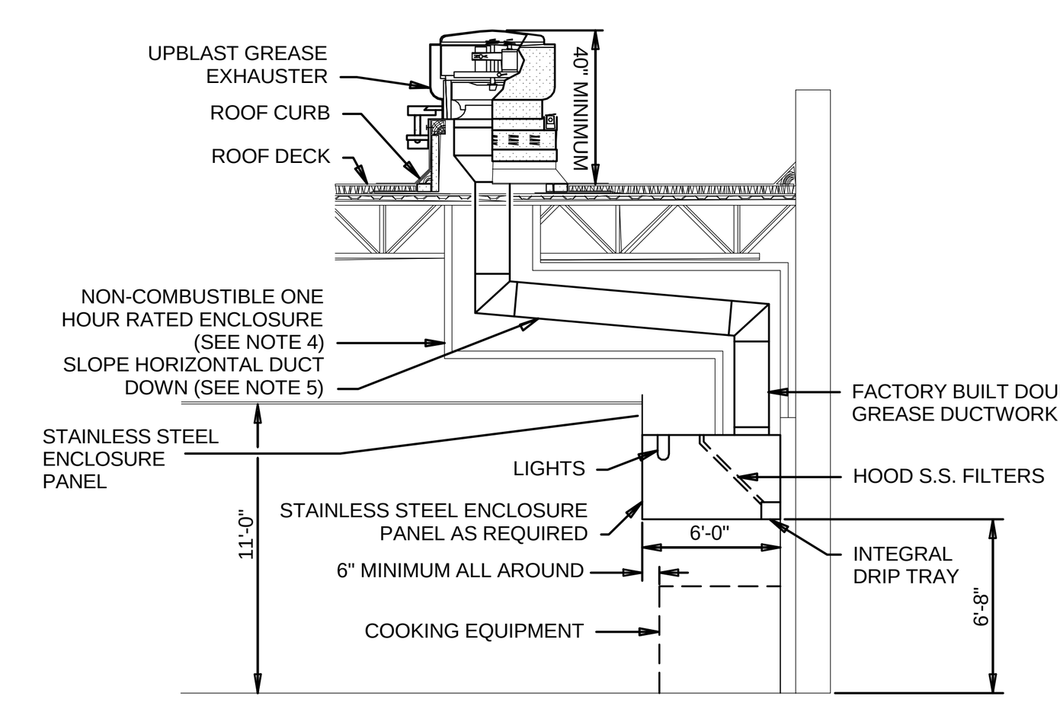


3 UPBLAST GREASE EXHAUST FAN DETAIL
1/8" = 1'-0"



NOTES:
1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
2. PROVIDE WORM GEAR OPERATOR AND DAMPER WITH REMOTE CABLE FOR DAMPERS ABOVE HARD CEILINGS.

2 HARD CEILING DIFFUSER DETAIL
1/8" = 1'-0"



NOTES:
1. SUBMIT SHOP DRAWINGS OF ALL HOOD SYSTEMS TO CITY FOR APPROVAL PRIOR TO INSTALLATION.
2. TOTAL HOOD SYSTEM TO BE IN COMPLETE CONFORMANCE WITH NFPA, AND ALL LOCAL CODES AND REGULATIONS.
3. COORDINATE ALL ANSUL FIRE PROTECTION SYSTEMS WITH FIRE PROTECTION CONTRACTOR WHO SHALL ALSO BE RESPONSIBLE FOR ALL PERMITS AND TESTING REQUIRED.
4. AT CONTRACTORS OPTION, A WRAP SYSTEM AS APPROVED BY LOCAL CODES MAY BE PROVIDED AS ALTERNATE TO RATED ENCLOSURE.
5. PROVIDE ACCESS PANELS AS REQUIRED BY LOCAL CODE.

1 TYPICAL GREASE EXHAUST SYSTEM DETAIL
1/8" = 1'-0"

3/6/2018 6:35:19 PM

brr
Architect of Record:
BOYD W. RAU
5700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044
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Issues & Revisions

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03/06/2018

Sheet Title
MECHANICAL DETAILS 1

Sheet No.
M201

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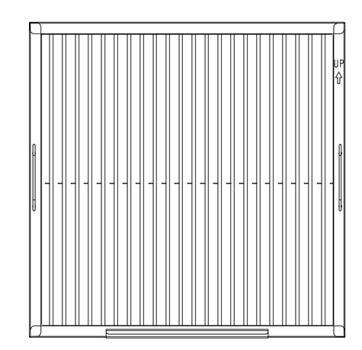
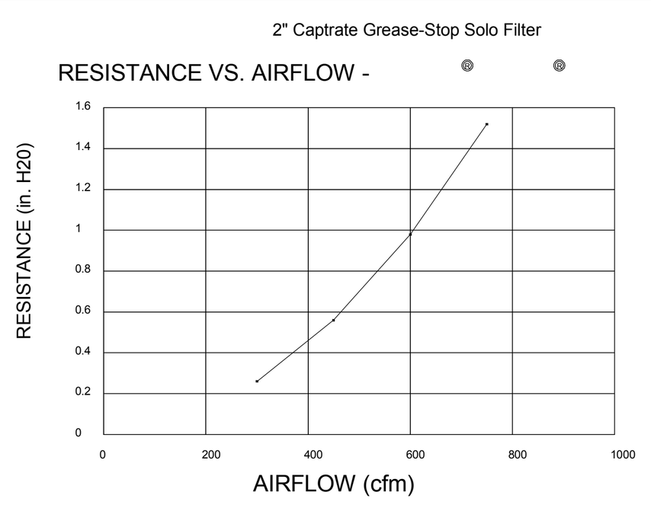


Captrate
Grease-Stop Solo Filter



Filter Detail

CAPTRATE ®

EXHAUST CFM=LENGTH OF HOOD X CFM/LIN.FT. (LOAD)
SUPPLY CFM=EXHAUST CFM X PERCENTAGE REQUIRED

$$\text{TOTAL DUCT AREA}=144 \times \frac{\text{CFM}}{\text{FPM}(*)}$$

$$\text{DUCT LENGTH}=\frac{\text{TOTAL DUCT AREA}}{\text{DUCT DEPTH}}$$

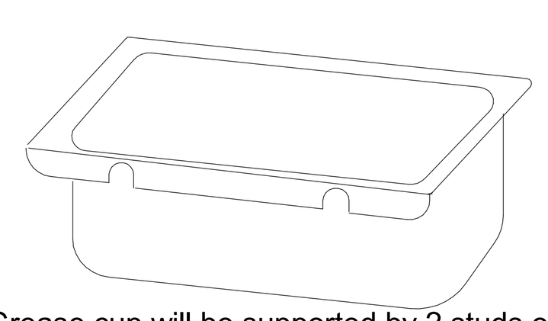
CALCULATIONS UTILIZED

CAPTIVE-AIRE HOODS ARE BUILT IN COMPLIANCE WITH:

- NFPA #96
- ETL SANITATION
- B.O.C.A. #93-16
- I.CB.O. 34416
- SBCCI PST & ESI NO. 93137
- E.T.L. LISTED 3054804-001
- LOS ANGELES RR#8080
- ETL IS LISTED TO ULC STANDARDS

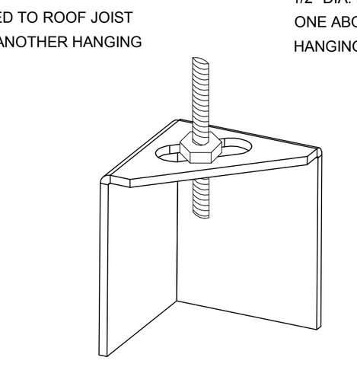
Intertek

BUILDING CODES



Grease cup will be supported by 2 studs on the inside wall of the hood. The grease will drain through a concealed grease trough and into this removeable cup.

1/2 Pint Grease Cup Detail



* ROD AND NUTS TO BE SUPPLIED BY INSTALLING CONTRACTOR
HANGING ANGLE IS PRE-PUNCHED AT FACTORY

ND-2 HANGING ANGLE DETAIL

HANGING ANGLES WILL BE LOCATED
IN THE FOLLOWING LOCATIONS
FOR WALL CANOPIES

HOOD STYLE		DIM FROM REAR	DIM FROM FRONT (24" High Hood)	DIM FROM FRONT (30" High Hood)
Wall	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Back Shelf	Exhaust Only	4.166"	2.25"	2.25"
	With MUA		2.25"	2.25"
Condensate		2.25"	2.25"	

HANGING ANGLE LOCATIONS

HOOD INFORMATION - Job#3156974

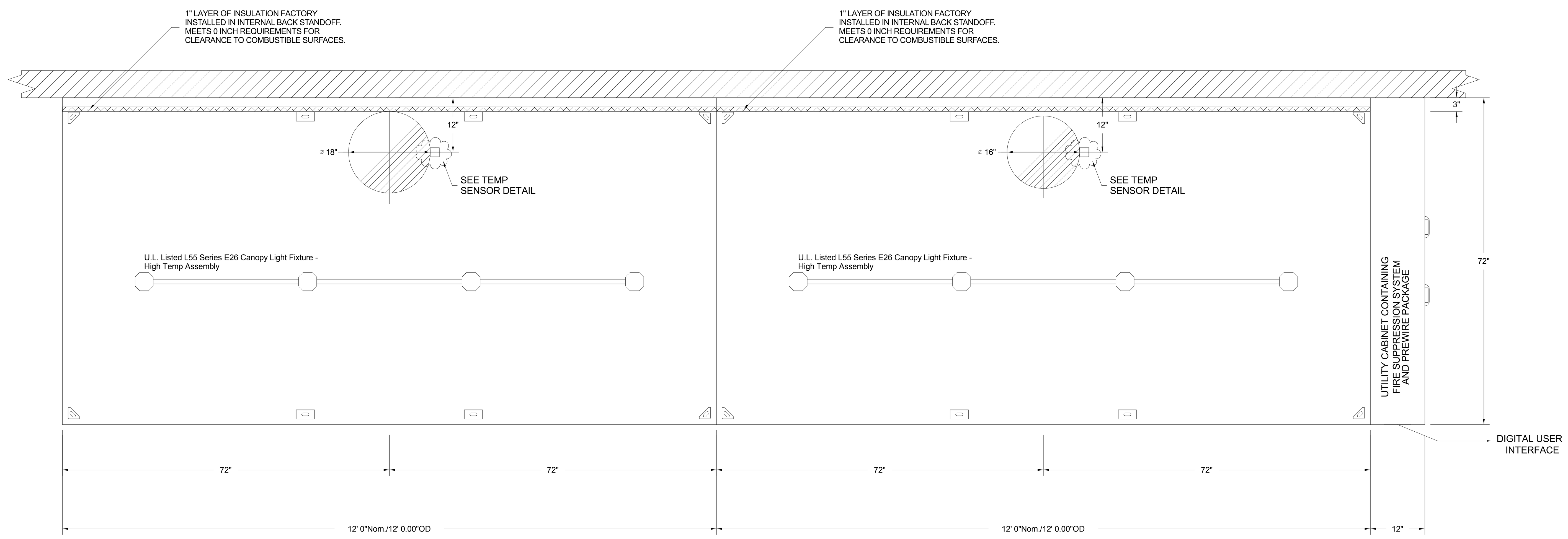
HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM TOTAL EXH. CFM	RISER(S) WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.	S.P.	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW
1		7230 ND-2	12' 0"	600 Deg.	3300			4"	18"	3300	1867	-1.151"	430 SS 100%	LEFT	ALONE
2		7230 ND-2	12' 0"	600 Deg.	2580			4"	16"	2580	1848	-0.920"	430 SS 100%	RIGHT	ALONE

HOOD OPTIONS

HOOD NO.	TAG	OPTION PROVIDED BY HOOD MFG.
1	a	FIELD WRAPPER 24.00" High Front, Left
		BACKSPLASH 80.00" High X 300.00" Long 430 SS Vertical (2a)
		INSULATION FOR TOP OF HOOD
		STRUCTURAL FRONT PANEL
		INSULATION FOR BACK OF HOOD
2		FIELD WRAPPER 24.00" High Front, Right
		INSULATION FOR TOP OF HOOD
		STRUCTURAL FRONT PANEL
		INSULATION FOR BACK OF HOOD

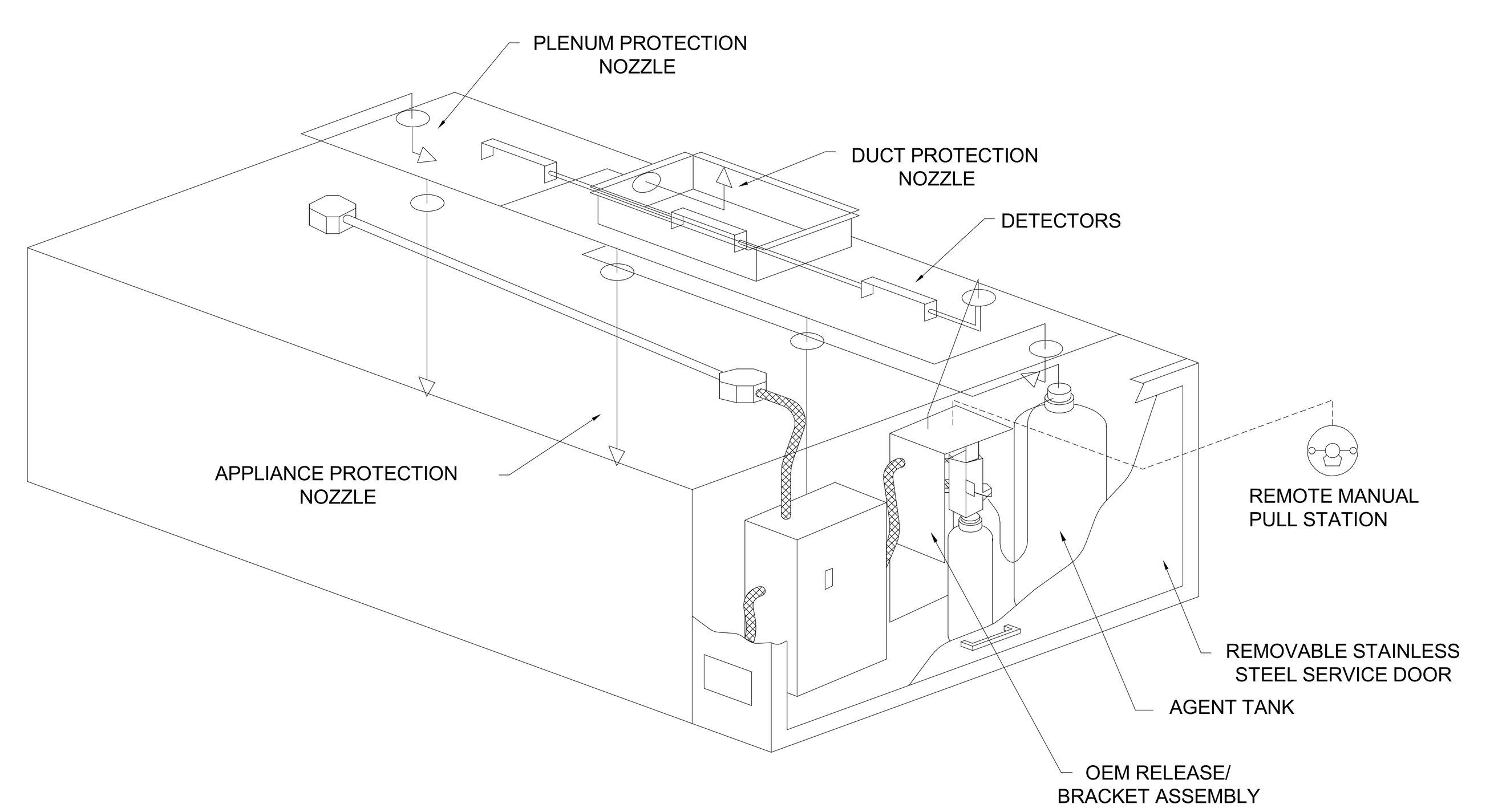
HOOD INFORMATION

HOOD NO.	TAG	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY.	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		Captrate Solo Filter	8	20"	16"	85% See Filter Spec.	4	L55 Series E26	NO							YES	781 LBS
2		Captrate Solo Filter	8	20"	16"	85% See Filter Spec.	4	L55 Series E26	NO	Right	12"x72"x30"	Ansul R102	3.0/1.5	DCV-2011	1 Light 1 Fan	YES	969 LBS



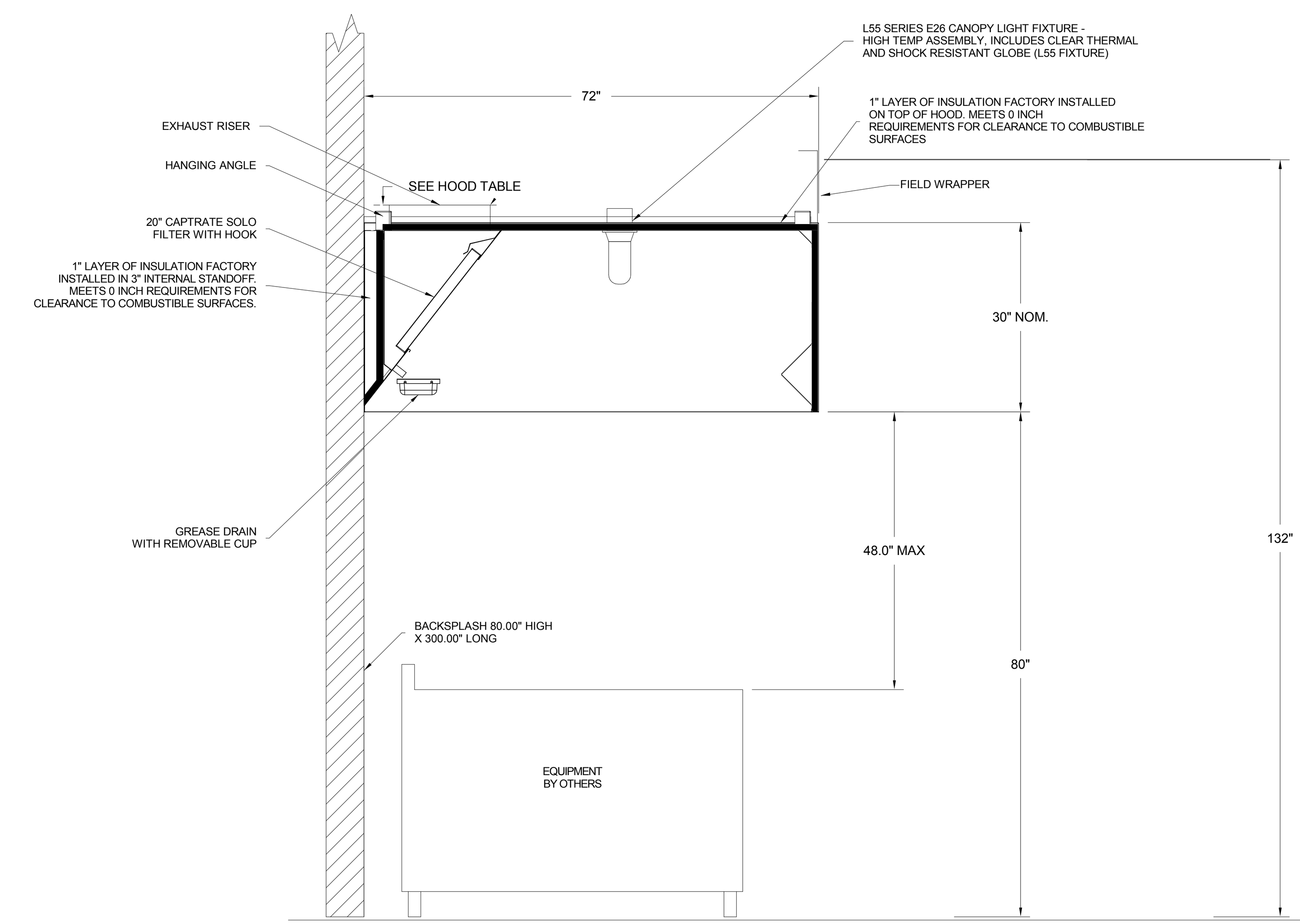
PLAN VIEW - Hood #1
12' 0.00" LONG 7230ND-2

PLAN VIEW - Hood #2
12' 0.00" LONG 7230ND-2



TYPICAL ANSUL R-102 SYSTEM LAYOUT

FOR QUESTIONS, CALL
KURT CURTIS: REGIONAL MANAGER
PHONE: (360) 828-5418
FAX: (919) 227-5983
EMAIL: kurt.curtis@captiveaire.com



SECTION VIEW - MODEL 7230ND-2

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: SGP
Checked By:
Drawn by: SGP
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Template date:

Project No.
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Professional Seal

05/21/2018

Sheet Title
MECHANICAL DETAILS 2

Sheet No.
M301

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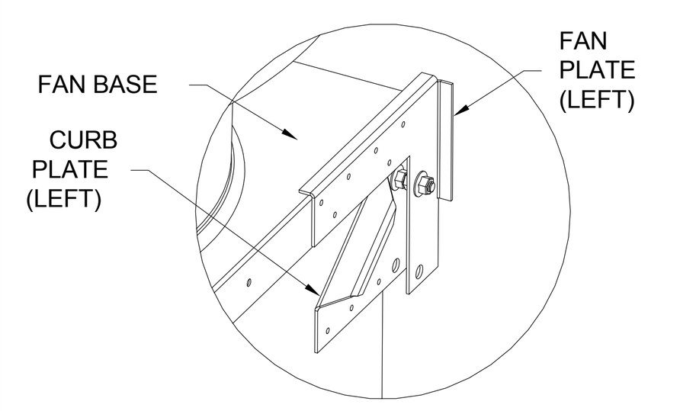
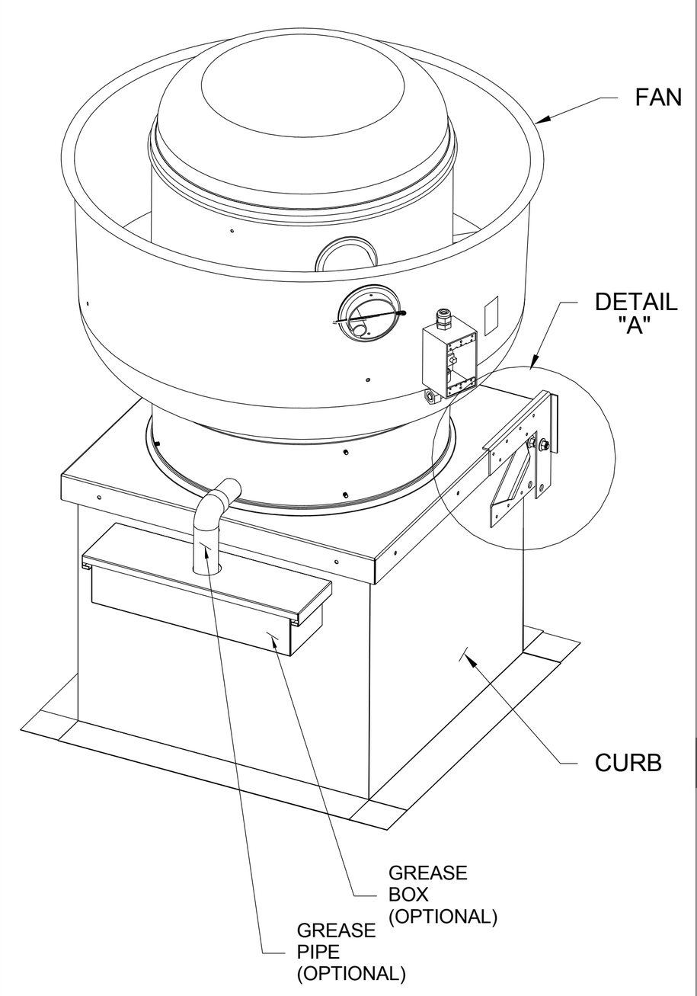
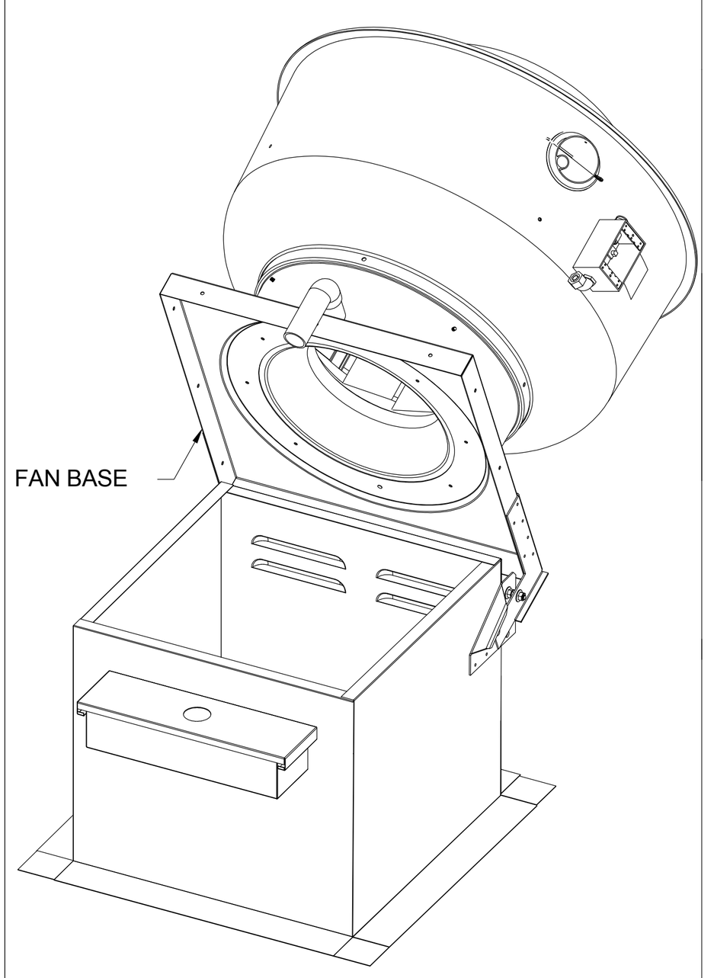


HINGE KIT DETAIL

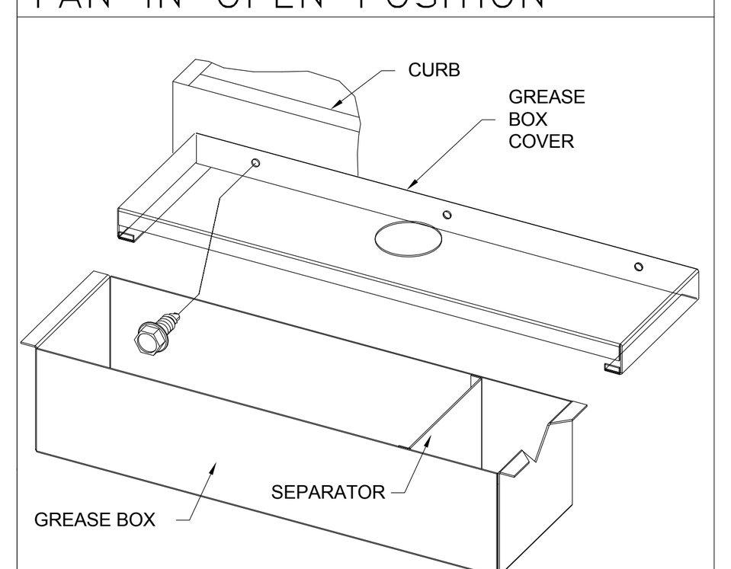


FAN IN CLOSED POSITION

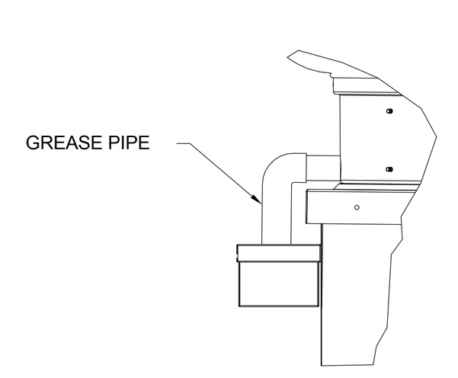


ATTENTION: INSTALLER SHOULD SUPPLY ENOUGH ELECTRICAL CORD TO LET FAN MAKE COMPLETE SWING.

FAN IN OPEN POSITION



ATTACH GREASE BOX COVER TO THE CURB 3" BELOW TOP EDGE OF CURB.
USING (3) LONG (3/4" LG.) SCREWS AS SHOWN.
INSTALL GREASE PIPE AS SHOWN.



GREASE BOX INSTALLATION

EXHAUST FAN INFORMATION – JOB#3156974

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	□	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SONES
1	KEF-1	DU180HFA	3300	1.850	1452	3.000	1.6350	3	208	9.5	762 FPM	186	22
2	KEF-2	DU180HFA	2580	1.750	1304	2.000	1.1620	3	208	6.1	596 FPM	161	17.8

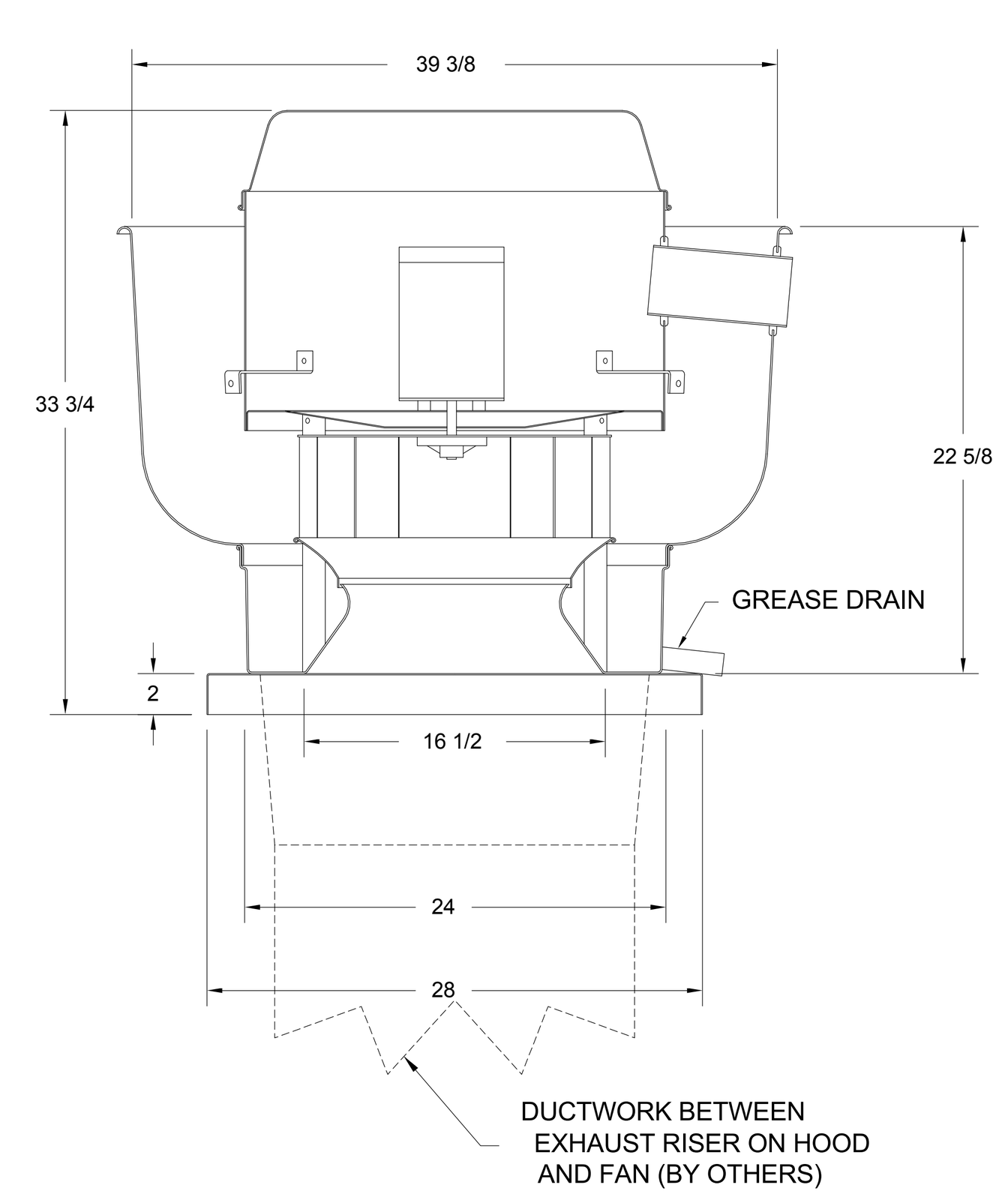
FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	KEF-1	1 - Grease Box
		1 - 3 Year Extended Motor Warranty
		1 - Fan Base Ceramic Seal - Ship Loose - For Grease Ducts
2	KEF-2	1 - Grease Box
		1 - 3 Year Extended Motor Warranty
		1 - Fan Base Ceramic Seal - Ship Loose - For Grease Ducts

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	41 LBS	Curb	26.500"W x 26.500"L x 20.000"H Vented Hinged
2	# 2	41 LBS	Curb	26.500"W x 26.500"L x 20.000"H Vented Hinged

FANS #1 (KEF-1), #2 (KEF-2) - DU180HFA EXHAUST FAN



FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST

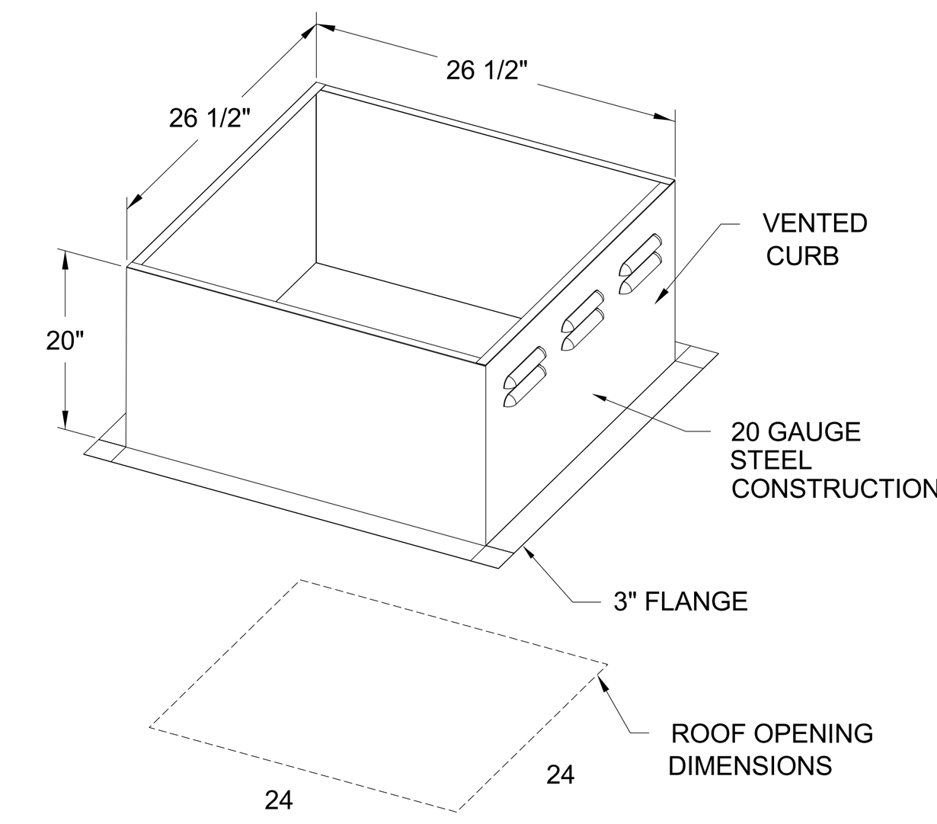
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

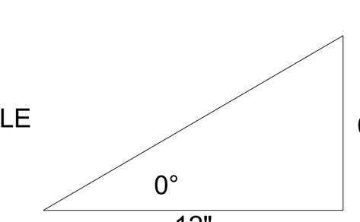
OPTIONS

GREASE BOX
3 YEAR EXTENDED MOTOR WARRANTY
FAN BASE CERAMIC SEAL - FOR GREASE DUCTS



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



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PHONE: (360) 828-5418
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EMAIL: kurt.curtis@captiveaire.com

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Energy Squared Texas, LLC
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San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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365 BY WHOLE FOODS MARKET

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SGP
Checked By:

Drawn by:
SGP
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01/26/18
Template date:

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62911019

Professional Seal

03/06/2018

Sheet Title
MECHANICAL DETAILS 3

Sheet No.
M302

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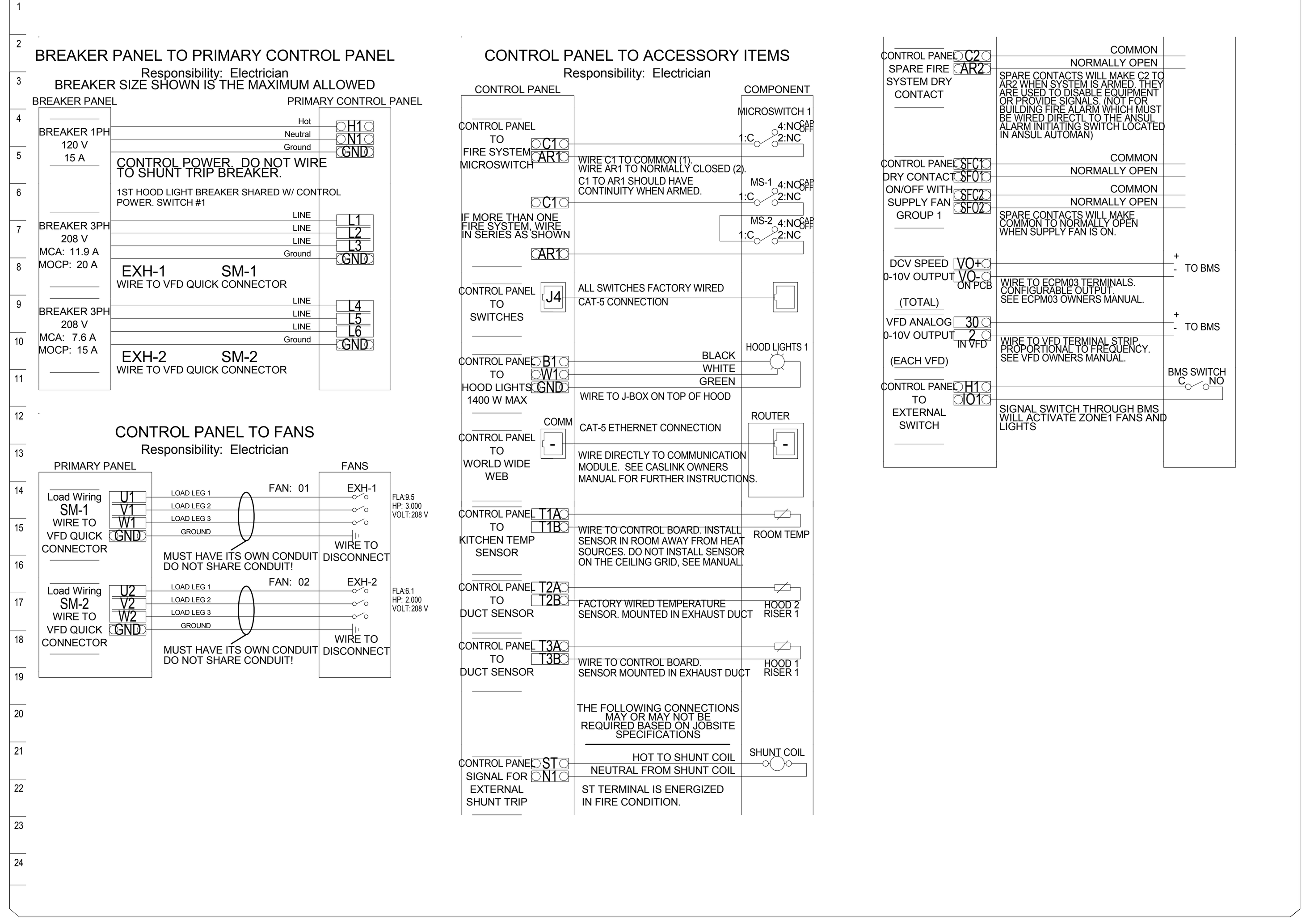
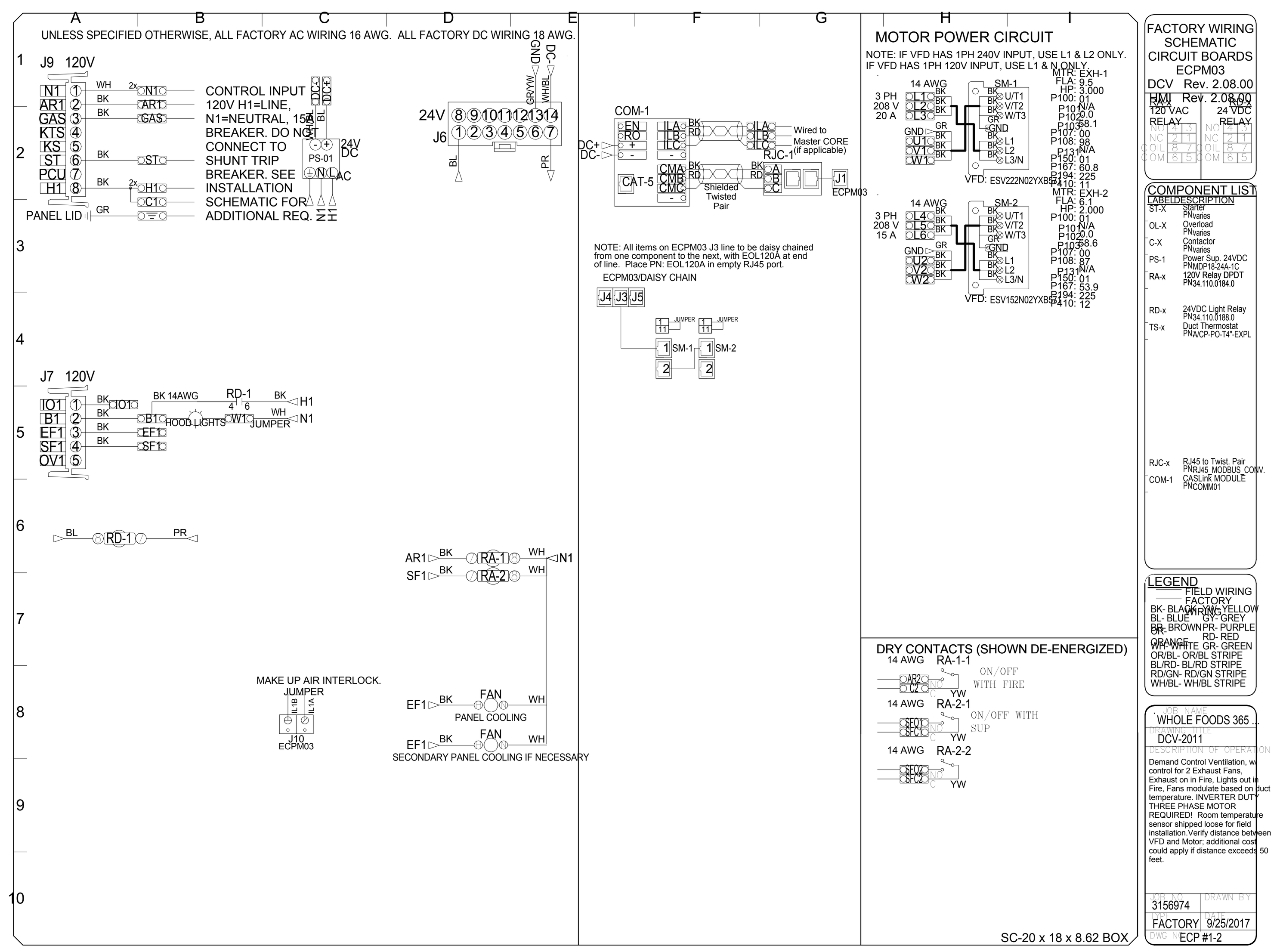
ELECTRICAL PACKAGES – Job#3156974

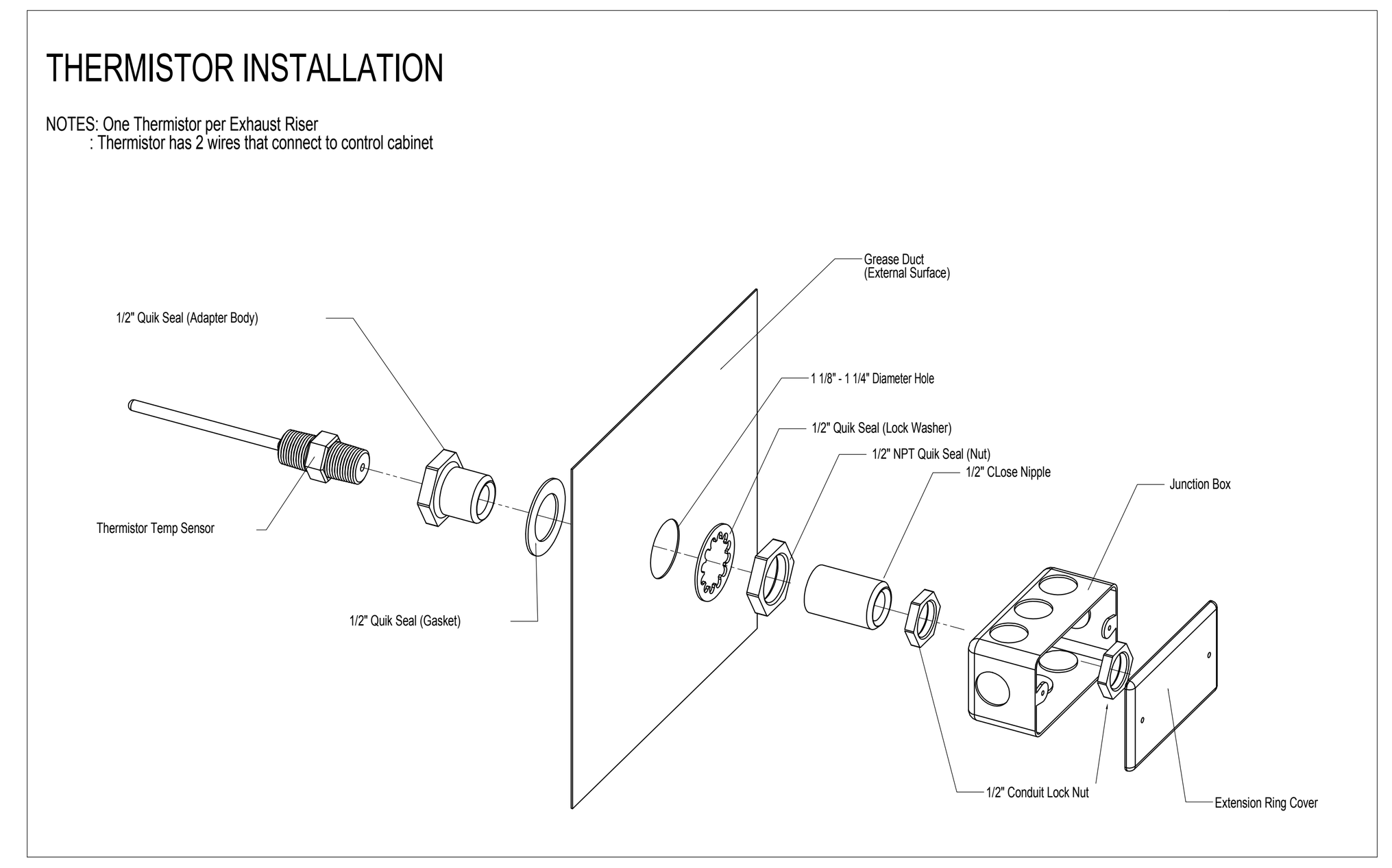
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	H.P.	VOLT	FLA
1		DCV-2011	Utility Cabinet Right	04 - Utility Cabinet Right	1 Light	Smart Controls DCV	KEF-1	Exhaust	3	3.000	208	9.5
				Hood # 2	1 Fan		KEF-2	Exhaust	3	2.000	208	6.1

JOB NO 3156974 — MODEL NUMBER DCV-2011 — JOB NAME WHOLE FOODS 365 - DECATUR, GA — SCHEMATIC TYPE INSTALL — DATE 9/25/2017 — DWG NO ECP #1-1

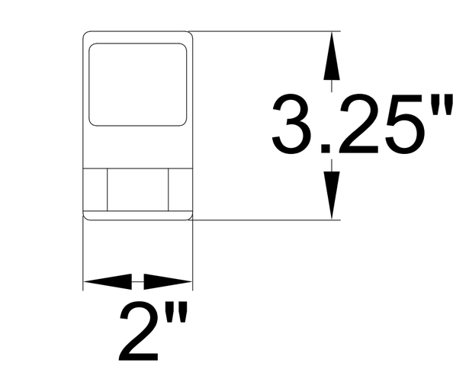
DESCRIPTION OF OPERATION:
Demand Control Ventilation, w/ control for 2 Exhaust Fans, Exhaust on in Fire, Lights out in Fire, Fans modulate based on duct temperature. INVERTER DUTY THREE PHASE MOTOR REQUIRED! Room temperature sensor shipped loose for field installation.Verify distance between VFD and Motor; additional cost could apply if distance exceeds 50 feet.



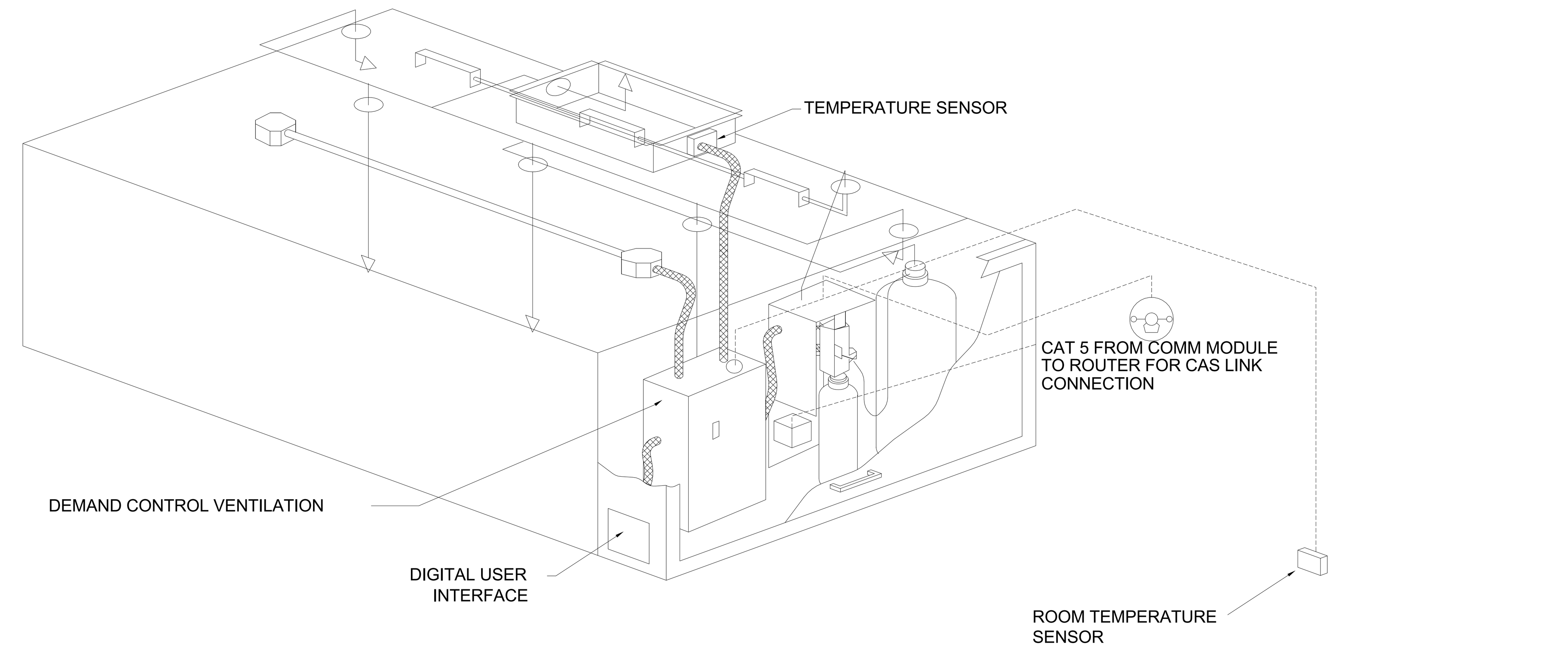




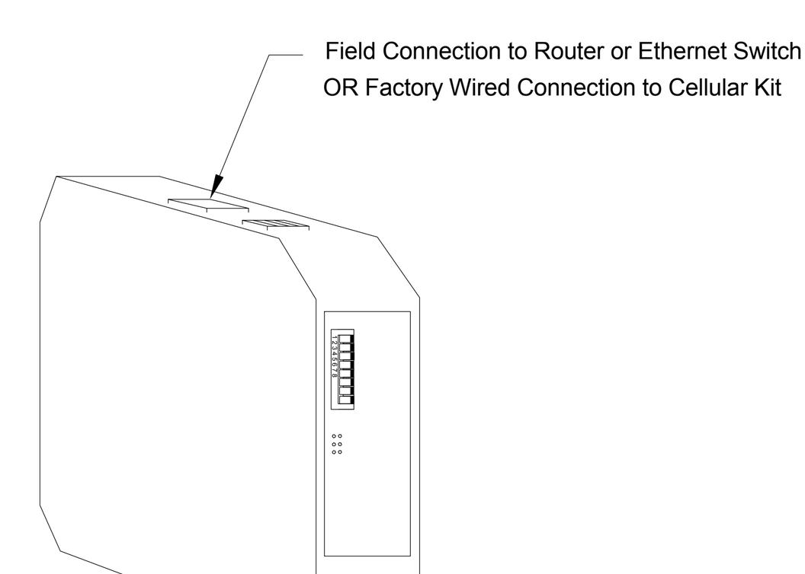
Room Temperature Sensor



Provides room override based on temperature differential between the room and duct. Install on a wall in space but not directly under the hood or close to an appliance so the reading is accurate for space.

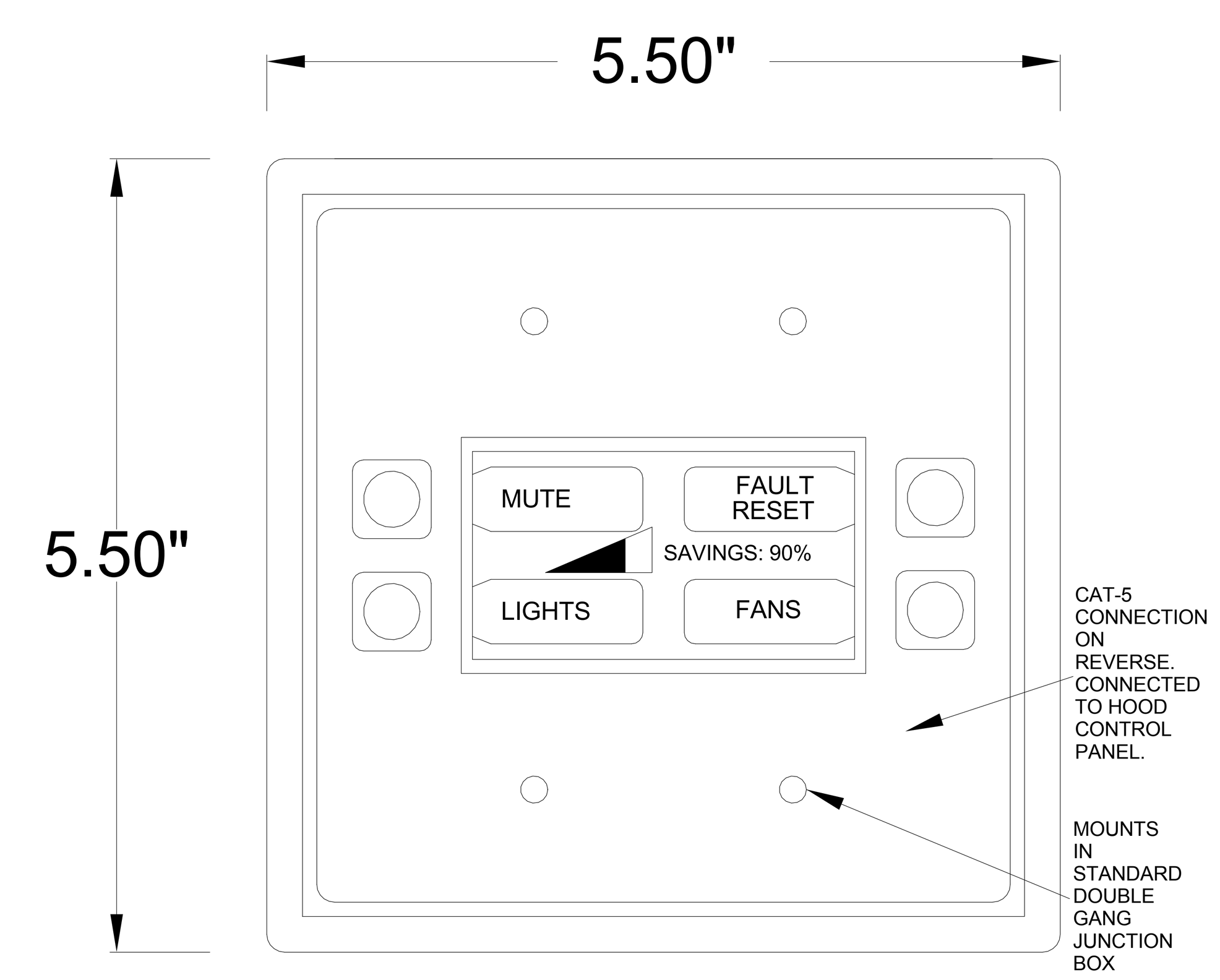


TYPICAL CONTROL DCV w/CASLink INSTALLATION



CASlink Monitor and Control

– Hood control panel to support communications to cloud-based Building Management System
– Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list. Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.



DIGITAL USER INTERFACE

IT IS THE RESPONSIBILITY OF THE EC TO MAKE ALL FIELD CONNECTIONS INTO AND OUT OF THE CAPTIVEAIRE CONTROL PANEL INCLUDING BUT NOT LIMITED TO LOW VOLTAGE, CAT 5, 24V WIRES TO ALL TEMP SENSORS, INCLUDING THE ROOM TEMP SENSOR, MOTOR LINE VOLTAGE POWER FEEDS, AND CONTROL WIRING.

REFER TO WIRING SCHEMATICS IN THIS DRAWING AND POSTED INSIDE OF THE CONTROL CABINET

FOR QUESTIONS, CALL
KURT CURTIS: REGIONAL MANAGER
PHONE: (360) 828-5418
FAX: (919) 227-5983
EMAIL: kurt.curtis@captiveaire.com

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

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Project No. 62911019
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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044
Consultants
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FACTORY BUILT DOUBLE WALL GREASE DUCT MODEL DW-2R SPECIFICATION:

FURNISH DOUBLE WALL, FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS, WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIALCOOKING OPERATION. TESTING HAS BEEN EXTENDED TO RECONGNIZE ASTM E2336 AND AC101 DUE TO SIMILAR TESTING CRITERIA. MODELS DW-2R, 3R AND 3Z ARE USED FOR GREASE DUCT APPLICATIONS WHEN INSTALLED IN ACCORDANCE WITH THESE INSTRUCTIONS AND NFPA 96; STANDARD FOR VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS. DOUBLE WALL GREASE DUCTS ARE LISTED FOR A CONTINUOUS INTERNAL TEMPERATURE OF 500 DEGREES F AND INTERMITTENT TEMPERATURES OF 2000 DEGREES F.
THE DUCT SECTIONS SHALL BE CONSTRUCTED OF AN INNER DUCT WALL AND AN OUTER WALL WITH INSULATION IN BETWEEN. THE INNER DUCT WALL SHALL BE CONSTRUCTED OF .036 INCH THINK, 430 TYPE STAINLESS STEEL AND BE AVAILABLE IN DIAMETERS 8" THROUGH 24". THE OUTER WALL SHALL BE CONSTRUCTED OF STAINLESS STEEL AT A MINIMUM OF .024 INCH THICKNESS. THE DUCT, BASED ON MODEL NUMBER, SHALL INCLUDE LAYERS OF SUPER WOOL 607 PLUS INSULATION BETWEEN THE INNER AND OUTER WALL. GREASE DUCT JOINTS SHALL BE HELD TOGETHER BY MEANS OF FORMED V CLAMPS AND SEALED WITH 3M FIRE BARRIER 2000+. THE DUCT WALL ASSEMBLY SHALL BE TESTED AT 3/4" OR ZERO INCH CLEARANCE, ACCORDING TO CLASSIFICATIONS.

CLASSIFICATIONS AND CLEARANCES
UL 2221: STANDARD FOR FIRE RESISTIVE GREASE DUCT ENCLOSURE ASSEMBLIES. CHAPTER 7 OF THIS STANDARD REFERENCES A TEST LABELED INTERNAL FIRE TEST. SECTION 7.1.1 REFERENCES TWO INSTALLATION CONDITIONS, CONDITION A AND CONDITION B. CONDITION A REPRESENTS ALL INSTALLATION CONDITION EXCEPT FOR INSTALLATION WITHIN NON-VENTILATEDCOMBUSTIBLE ENCLOSURES. CONDITION B REPRESENTS INSTALLATION WITHIN A NON-VENTILATED COMBUSTIBLE ENCLOSURE.

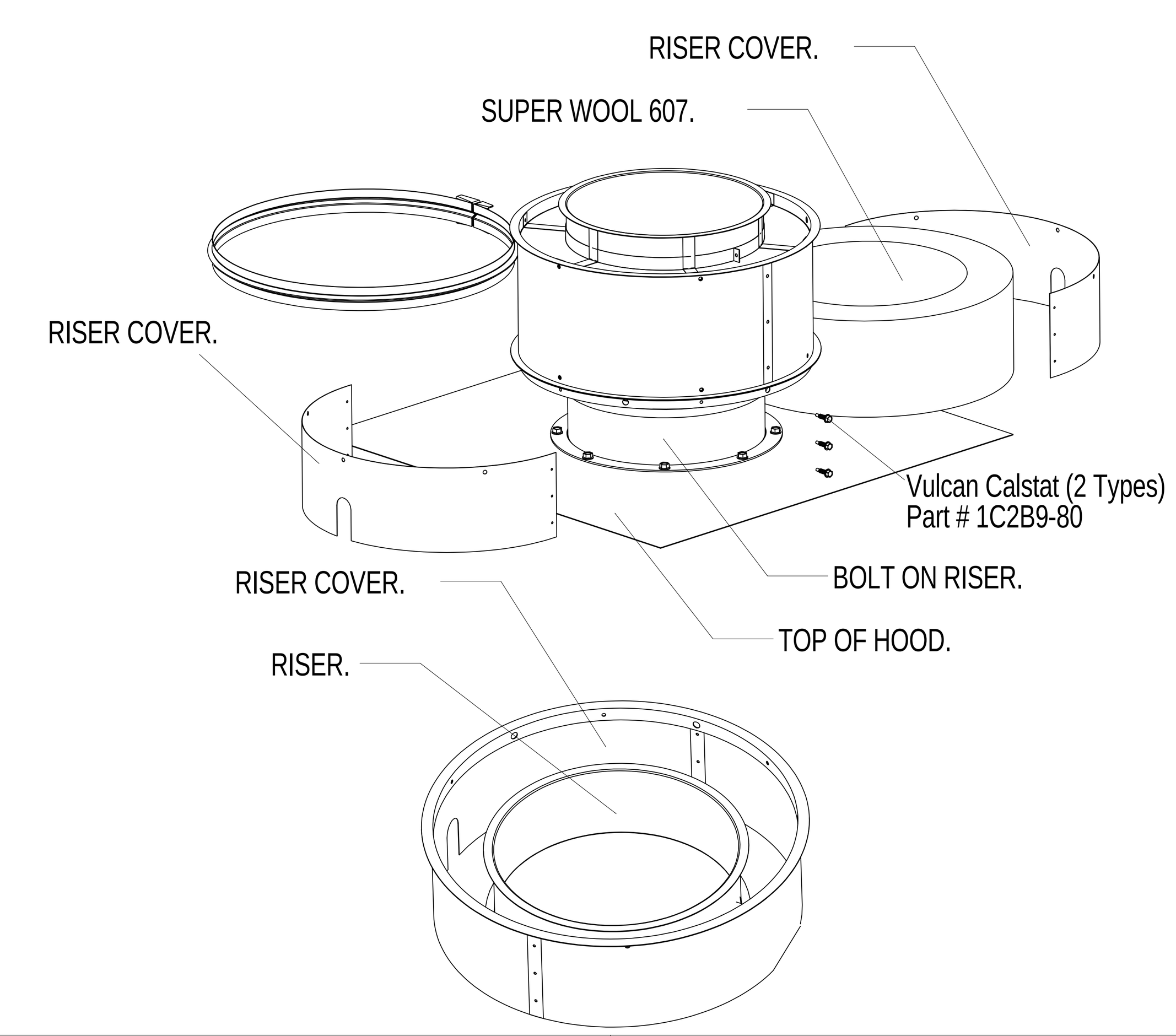
MODEL DW-2R IS CLASSIFIED UNDER UL2221 AS AN ALTERNATE TO 2-HR FIRE RESISTIVE SHAFT ENCLOSURES WITH A REDUCED CLEARANCE TO COMBUSTIBLES (SIZES 8" TO 16" DIAMETER). MODEL 2R IS LISTED IN ACCORDANCE WITH THE REQUIREMENTS FOR DUCT ENCLOSURE CONDITION B.

MODEL DW-2R: 3/4" CLEARANCE TO COMBUSTIBLES FROM THE SURFACE OF THE DUCT OUTER SHELL; ZERO INCH CLEARANCE FROM COMBUSTIBLES FROM THE TIP OF THE OUTER V BAND.

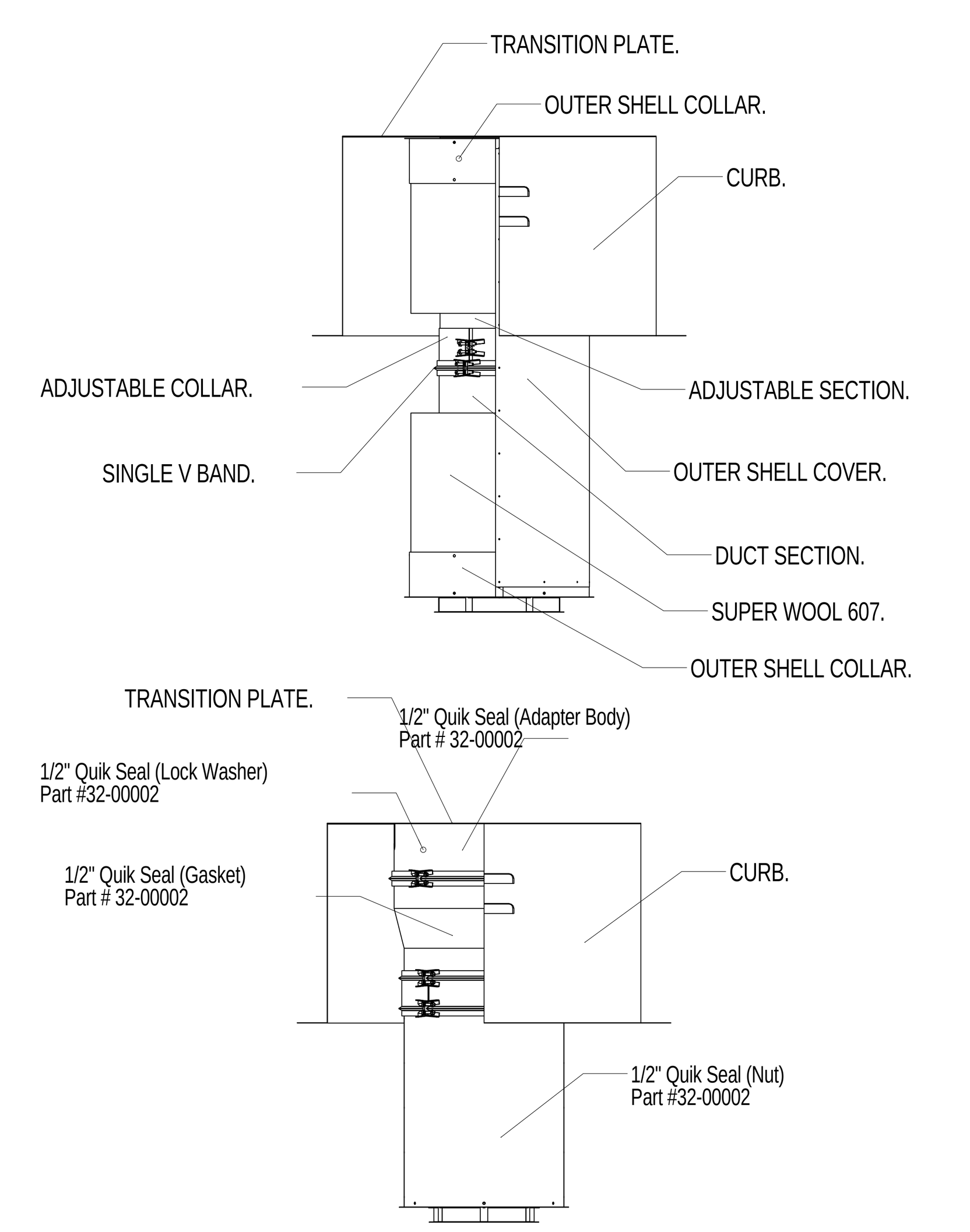
DOUBLE WALL GREASE DUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S "INSTALLATION, OPERATION AND MAINTENANCE MANUAL," ETL LISTING, STATE AND LOCAL CODES. FANS SHALL BE SUPPORTED INDEPENDENTLY FROM THE GREASE DUCT SECTIONS. PROTECT GREASE DUCT FROM TWISTING OR MOVEMENT CAUSED BY FAN TORQUE OR VIBRATION.

CERTIFICATIONS:
THE DW-2R SERIES HAS BEEN CERTIFIED BY ITS. THIS CERTIFICATION MARK INDICATES THAT THE PRODUCT HAS BEEN TESTED TO AND HAS MET THE MINIUM REQUIREMENTS OF A WIDELY RECOGNIZED (CONSENSUS) U.S. AND CANADIAN PRODUCTS SAFETY STANDARD, THAT THE MANUFACTURING SITE HAS BEEN AUDITED, AND THAT THE APPLICANT HAS AGRRED TO A PROGRAM OF PERIODIC FACTORY FOLLOW-UP INSPECTIONS TO VERIFY CONTINUED PERFORMANCE.

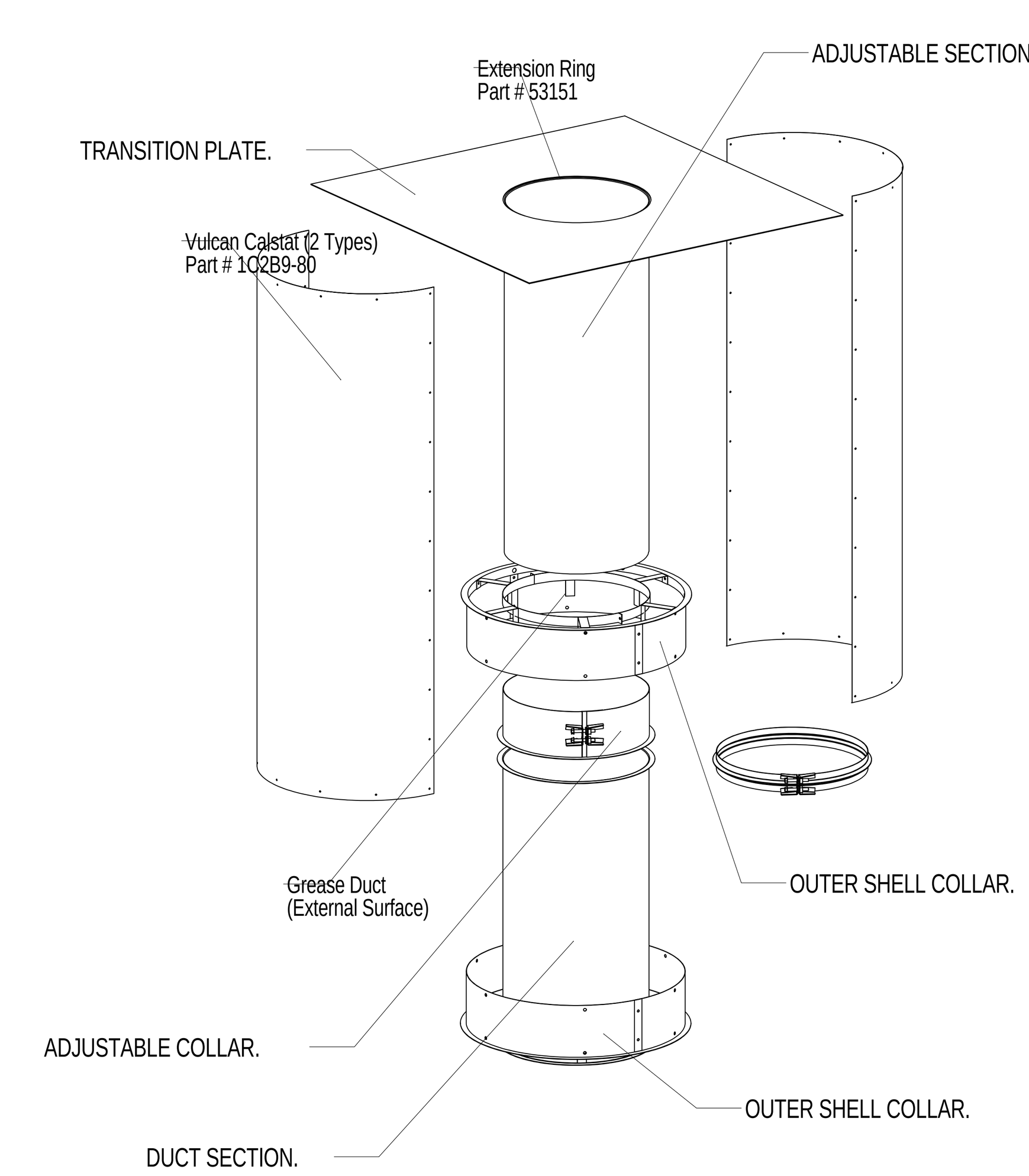
DOUBLE WALL DUCT RISER COVER



DOUBLE WALL DUCT TRANSITION PLATE



DOUBLE WALL DUCT ADJUSTABLE SECTION



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PHONE: (360) 828-5418
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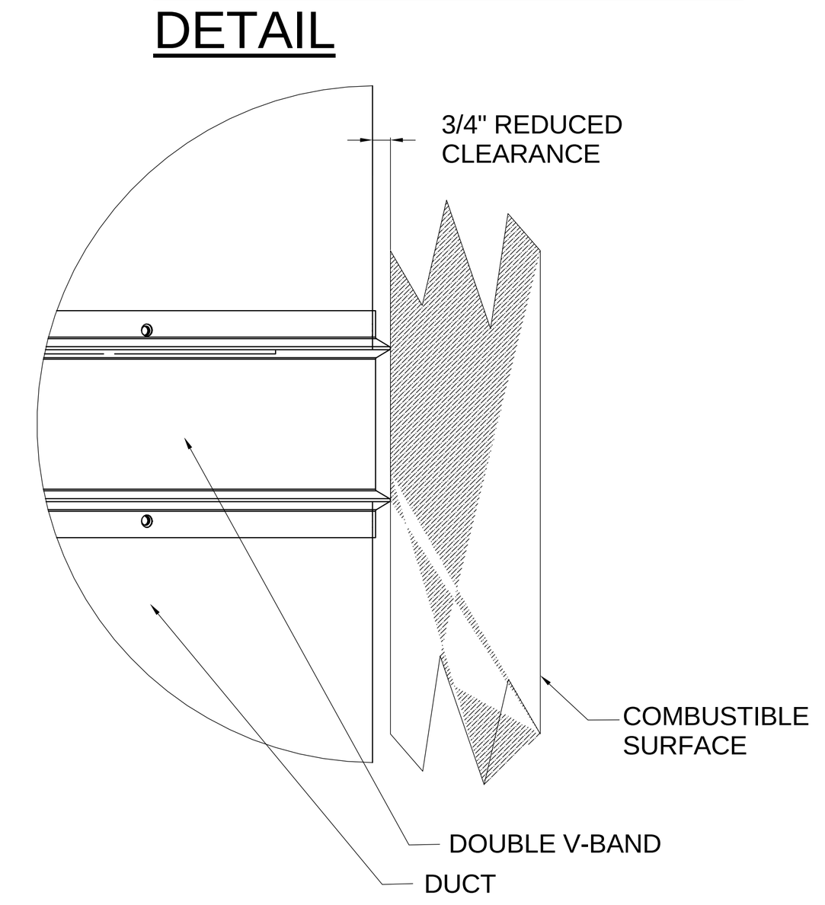
REDUCED CLEARANCE DETAIL



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PLUMBING FIXTURE SCHEDULE

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH-IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

BFP1
REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # LF009QT, MEETING ASSE 1013, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, QUARTER TURN BALL VALVES, BRONZE STRAINER AND # 909AG AIR GAP FITTING.

BFP2
REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # 009QT, MEETING ASSE 1013, CAST BRONZE BODY, QUARTER TURN TEST COCKS, QUARTER TURN BALL VALVES, BRONZE STRAINER AND # 909AG AIR GAP FITTING.

DCV1
DOUBLE CHECK VALVE BACKFLOW PREVENTER; WATTS # LF719QT, MEETING ASSE 1015, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, STRAINER AND QUARTER TURN BALL VALVES.

EEW
WALL-MOUNTED EMERGENCY EYE / FACE WASH: GUARDIAN # G1724-T, 11-1/2" DIAMETER STAINLESS STEEL BOWL AND STAY-OPEN BALL VALVE, EPOXY COATED ALUMINUM FLAG HANDLE, CAST ALUMINUM WALL BRACKET, FOUR FILTERED SPRAY HEADS WITH SELF REGULATING FLOW CONTROL AND DUST COVERS, 1-1/2" CHROME PLATED BRASS TAIL PIECE AND McGUIRE # B8912CF 1-1/2" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP WITH BRASS CLEANOUT AND ESCUTCHEON., AND 1/2" INLET.

EMV
EMERGENCY MIXING VALVE: POWERS # ES150-AF05012, BRONZE BODY WITH ROUGH BRONZE FINISH, MEETING ASSE 1071, CORROSION RESISTANT INTERNAL PARTS, CHECK STOPS WITH REMOVABLE STRAINERS, DUAL INTERNAL COLD WATER BYPASS, PARAFFIN FILLED TEMPERATURE ELEMENT, DIAL THERMOMETER ON OUTLET, CAPABLE OF 4 GPM WITH A 5 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 1.0 GPM, AND STAINLESS STEEL WALL-MOUNTED CABINET. MAXIMUM TEMPERATURE STOP SET FOR 90°F.

EWC
ELECTRIC WATER COOLER (ADA ACCESSIBLE): ELKAY # LVRCGRNT8WSK WALL-MOUNTED, STAINLESS STEEL, DUAL HEIGHT, FRONT PUSH ACTUATOR BARS, ANTI-MICROBIAL SURFACE, FILTERED COOLER AND BOTTLE FILLING STATION, FILTER, CHILLER WITH CAPACITY OF 8 GALLONS PER HOUR, 50°F DRINKING WATER AT 80°F INLET TEMPERATURES 90°F ROOM TEMPERATURE WITH ELECTRONIC SENSOR FOR NO TOUCH ACTIVATION AND 30 SECOND SHUT-OFF AT FILLING UNIT. INSTALL BOTTLE FILLING STATION ON LOW SIDE OF COOLER FOR ADA ACCESS. TRIM: McGUIRE # 2165CC COMPRESSION ANGLE STOP VALVE WITH RISER AND ESCUTCHEON, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, AND SUITABLE CARRIER WITH STANCHIONS TO FLOOR. ELECTRICAL REQUIREMENTS: EQUIPPED WITH ELECTRIC CORDS AND THREE PRONG MOLDED RUBBER PLUGS FOR USE WITH 15 AMP MINIMUM DUAL RECEPTACLE RATED AT 115V, 60HZ, SINGLE PHASE.

F1
FAUCET: T&S BRASS #B-2342 8" WALL MOUNTED FAUCET WITH 10" SWING SPOUT, COMPRESSION CARTRIDGES, LEVER HANDLES AND 2.2 GPM AERATOR.
TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS.

F2
FAUCET: T&S BRASS #B-2187-01 8" WALL MOUNTED FAUCET WITH 14" SWING SPOUT WITH HAND SPRAYER, COMPRESSION CARTRIDGES, LEVER HANDLES AND 2.2 GPM AERATOR. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS.

F3
FAUCET: T&S BRASS #B-0133-B 8" WALL MOUNTED FAUCET WITH HAND SPRAYER, COMPRESSION CARTRIDGES, LEVER HANDLES AND 1.42 GPM AERATOR. TRIM: McGUIRE # LF2165CC LEAD FREE BRASS WHEEL HANDLE ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS.

FCO
FLOOR CLEANOUT: JAY R. SMITH, CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, NICKEL BRONZE, TOP. # 4031L (-F-C), SCORIATED TOP FOR EXPOSED, FLUSH WITH FINISHED FLOOR, APPLICATION(S), # 4031L (-F-C-Y), , 1/8" RECESS FOR INSTALLATION IN TILED FLOOR AREA(S), # 4191 (-F-C), 1/2" RECESS FOR INSTALLATION IN TERRAZZO AND SIMILAR POURED FLOOR AREA(S). REFER TO SPECIFICATIONS FOR INSTALLATION.

FCOH
FLOOR CLEANOUT – HEAVY DUTY: JAY R. SMITH # 4111L CAST IRON BODY, FLASHING FLANGE WITH CLAMPING COLLAR, ABS PLUG, AND ADJUSTABLE, ROUND, SECURED, HEAVY DUTY SCORIATED NICKEL BRONZE TOP. REFER TO SPECIFICATIONS FOR INSTALLATION.

FCV
FLOW CONTROL VALVE: FLOWDESIGN # ICSS "AUTOFLOW", SERIES 300 STAINLESS UNION BODY WITH NICKEL PLATED UNION NUT, STAINLESS STEEL PRESSURE COMPENSATING CARTRIDGE, MEETING NSF 61 ANNEX G, NAMEPLATE AND 1/2" VALVE BODY AND STRAINER SIZE UNLESS SHOWN OTHERWISE ON PLANS. PROVIDE 0.5 GPM FLOW RATE CARTRIDGE UNLESS SHOWN OTHERWISE ON PLANS.

FD1
FLOOR DRAIN: JAY R .SMITH # 2005L (-A), CAST IRON BODY AND CLAMPING COLLAR, ADJUSTABLE 6" ROUND NICKEL BRONZE STRAINER. PROVIDE TRAP PRIMER PORT IF TRAP PRIMER IS PROVIDED ON THE DRAWINGS. USE PUSH- ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

FD2
FUNNEL FLOOR DRAIN: JAY R. SMITH # 3510L (-B), CAST IRON BODY, ADJUSTABLE, SIX INCH ROUND, NICKEL BRONZE STRAINER WITH 4" HIGH FUNNEL, SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

FD3
EQUIPMENT FLOOR DRAIN: JAY R. SMITH # 2233L (-M), CAST IRON BODY, 12" ROUND, LOOSE, HEAVY DUTY, DUCTILE IRON GRATE, SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. PROVIDE TRAP PRIMER PORT IF TRAP PRIMER IS PROVIDED ON THE DRAWINGS. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

FD4
EQUIPMENT FLOOR DRAIN: JAY R. SMITH # 2131L (-B), 5"DEEP CAST IRON BODY, 12" ROUND, LOOSE, MEDIUM DUTY, CAST IRON GRATE, SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. PROVIDE TRAP PRIMER PORT IF TRAP PRIMER IS PROVIDED ON THE DRAWINGS. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

FD5
FLOOR DRAIN: JAY R. SMITH # 2141L (-B-M), 5"DEEP CAST IRON BODY, 12" ROUND, LOOSE, HEAVY DUTY, DUCTILE IRON GRATE, SEDIMENT BUCKET, BOTTOM OUTLET, SEEPAGE PAN, AND MEMBRANE FLASHING CLAMP. PROVIDE TRAP PRIMER PORT IF TRAP PRIMER IS PROVIDED IN DRAWINGS. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

FS1
FLOOR SINK: JAY R. SMITH # 320-Y03 (12" SQUARE BODY LESS FLANGE), 6" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, ALUMINUM SEDIMENT BUCKET, AND 8-1/2" SQUARE PORCELAIN ENAMEL, ACID RESISTANT, COATED RIM AND HALF GRATE. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

FS2
FLOOR SINK: JAY R. SMITH # 330-Y03 (12" SQUARE SQUARE BODY LESS FLANGE), 8" DEEP CAST IRON BODY WITH ACID RESISTING ENAMELED INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES, CLAMP COLLAR, ALUMINUM SEDIMENT BUCKET, AND 12" SQUARE PORCELAIN ENAMEL, ACID RESISTANT, COATED RIM AND HALF GRATE. USE PUSH-ON JOINT OF OUTLET SIZE AS SHOWN ON PLANS.

HB1
HOSE BIBB: PRIER PRODUCTS # C-255CP.75, POLISHED CHROME PLATED BRASS 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, AND ASSE 1011 INTEGRAL VACUUM BREAKER.

HT-1
WASTE PIPE HEAT TAPE: RAYCHEM # 5XL1-CR, 5 WATTS PER FOOT WITH POLYOLEFIN OUTER JACKET, REFER TO SPECIFICATIONS FOR MORE INFORMATION. ELECTRICAL REQUIREMENTS: XXX WATT TOTAL CONNECTED LOAD AT 120V SINGLE PHASE.

IMB
ICE MAKER BOX: GUY GRAY MODEL # BIM875, 20 GAUGE GALVANIZED STEEL BOX, 18 GAUGE STEEL FACEPLATE, BOTTOM INLET WATER SUPPLY WITH LEAD FREE 1/2" x 1/4" COMPRESSION ANGLE STOP VALVE. TRIM: LOOP 4 FEET OF 1/4" TYPE "K" SOFT COPPER TUBING AND PROVIDE EQUIPMENT CONNECTION.

JS
JANITOR'S SINK: FIAT # MSB-2424, 24" x 24" x 10" HIGH MOLDED STONE BASIN WITH FACTORY INSTALLED STAINLESS STEEL DOME STRAINER AND SEDIMENT BASKET. FAUCET: CHICAGO FAUCET # 897-CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD. TRIM: # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T-35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V-70 EXTRUDED VINYL BUMPER GUARD, AND # T-40 24" STAINLESS STEEL MOP HANGER.

LV
WALL-MOUNTED LAVATORY (ADA ACCESSIBLE): AMERICAN STANDARD # 0355.012 "LUCERNE" 20-1/2" X 18-1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. FAUCET: PROVIDE WITH SLOAN # EAF-275, CHROME-PLATED, SOLAR POWERED WITH BATTERY BACKUP SENSOR OPERATED FAUCET MAGNETIC SOLENOID VALVE, 0.5 GPM AERATOR AND ETF-312-A TRIM PLATE. TRIM: McGUIRE # 155A GRID DRAIN WITH TAILPIECE, McGUIRE # LF2165CCLK LEAD FREE BRASS LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE # B8872CF 1-1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P-TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, PLUMBEREX "PRO-EXTREME" # X-4222 INSULATION KIT FOR WATER AND WASTE PIPES.

NFH
NON-FREEZE WALL HYDRANT: PRIER PRODUCTS # C-634NBX1, SATIN NICKEL PLATED BRASS 1" MALE INLET BY 3/4" FEMALE INLET, 3/4" THREADED HOSE CONNECTION, LOOSE KEY HANDLE, HYDRANT LENGTH AS REQUIRED FOR INSTALLED WALL THICKNESS, ADJUSTABLE WALL CLAMP, BRASS BOX WITH SATIN NICKEL PLATED FINISH AND INTEGRAL ASSE 1052 DOUBLE CHECK VACUUM BREAKER.

RH
ROOF NON-FREEZE POST HYDRANT: MAPA PRODUCTS # MPH-24FP FREEZE PROOF POST HYDRANT MEETING ASSE #1057 WITH BLACK POWDER COATED CAST ALUMINUM WEATHER-GUARD DOME HANDLE, STAINLESS STEEL SHROUD WITH WELDED STAINLESS STEEL FLANGE, UNDER DECK CLAMP, BRONZE GLOBE ANGLE VALVE, 3/4" HOSE CONNECTION, QUICK DISCONNECT WITH BUILT-IN VACUUM BREAKER, STAINLESS STEEL RESERVOIR.

T-1 THERMOSTAT: RAYCHEM # AMC-F5 LINE TEMPERATURE SENSING THERMOSTAT AND NEMA 4X ENCLOSURE FOR ON-OFF CONTROL OF HEAT TAPE CIRCUIT. FACTORY SET TO TURN ON AT 40°F. CAPILLARY AND SENSIN

TMV
THERMOSTATIC MIXING VALVE: POWERS # LFG480, SOLID LEAD FREE BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.35 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLAN(S).

TP1
TRAP PRIMER: PRECISION PLUMBING PRODUCTS # PR-500 "PRIME RITE", CORROSION RESISTANT BRASS BODY, "O" RING SEALS, 1/2" INLET AND OUTLET, AND INTEGRAL VACUUM BREAKER. INSTALL THE VALVE AT A MINIMUM OF 12" ABOVE FINISHED FLOOR.

TP2
TRAP SEAL: ProSet SYSTEMS "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED, FLEXIBLE ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT BOTTOM. ALLOWS WASTEWATER TO OPEN AND ADEQUATELY DISCHARGE FLOOR DRAIN THROUGH ITS INTERIOR. CLOSES AND RETURNS TO ORIGINAL MOLDED SHAPE AFTER WASTEWATER DISCHARGE IS COMPLETE.

TS
TIME SWITCH: INTERMATIC #ET1705CSPST, 7 DAY, ONE CIRCUIT-SINGLE POLE SINGLE THROW, ELECTRONIC TIME SWITCH OR EQUAL BY TORK. TIME SWITCH SHALL BE MOTOR RATED (1 H.P. @ 120 VOLT, SINGLE PHASE), MINIMUM OF 20 SET POINTS (14 ON/OFF CYCLES) AND BATTERY BACK UP. COORDINATE WITH DIVISION 26 FOR INSTALLATION AND INTERLOCK OF TIME SWITCH IN SERIES WITH THE AQUASTAT AND RECIRCULATION PUMP.

UR1
URINAL (ADA ACCESSIBLE): AMERICAN STANDARD # 6590.001 "WASHBROOK" WHITE VITREOUS CHINA FIXTURE WITH FLUSHING RIM, 3/4" TOP SPUD, AND WASHOUT FLUSH ACTION. VALVE: SLOAN "SOLIS" # 8186-0.125 EXPOSED, CHROME-PLATED, SOLAR POWERED WITH BATTERY BACK-UP, WITH OVERRIDE BUTTON, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, OSCILLATING HANDLE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP WITH VANDAL RESISTANT CAP, VACUUM BREAKER AND 3/4" FLUSH TUBE, AND SWEAT ADAPTER KIT. TRIM: SUITABLE CARRIER WITH STANCHIONS TO FLOOR.

WC1
WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE): AMERICAN STANDARD # 2257.001 "AFWALL" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION. VALVE: SLOAN "SOLIS" # 8111 1.6/1.1 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, SOLAR POWERED WITH BATTERY BACKUP, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. INSTALL FLUSH VALVE HANDLE ON THE WIDE SIDE OF THE STALL. TRIM: CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.

WC2
WALL-MOUNTED WATER CLOSET: AMERICAN STANDARD # 2257.001 "AFWALL" WHITE VITREOUS CHINA FIXTURE WITH ELONGATED UNIVERSAL BOWL AND DIRECT-FED SIPHON JET ACTION. VALVE: SLOAN "SOLIS" # 8111 1.6/1.1 GALLON PER FLUSH, EXPOSED, CHROME-PLATED, SOLAR POWERED WITH BATTERY BACKUP, SENSOR OPERATED, DIAPHRAGM TYPE, FLUSH VALVE WITH CHLORAMINE RESISTANT DIAPHRAGM AND PROTECTED ORIFICE, MANUAL OVERRIDE, ESCUTCHEON, INTEGRAL SCREWDRIVER STOP, VACUUM BREAKER, AND SWEAT ADAPTER KIT. INSTALL FLUSH VALVE HANDLE ON THE WIDE SIDE OF THE STALL. TRIM: CHURCH # 9500SSC WHITE OPEN-FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF-SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS. PROVIDE SUITABLE FIXTURE CARRIER.

WCO
WALL CLEANOUT: JAY R. SMITH # 4530S, CAST IRON CLEANOUT TEE, COUNTER SUNK PLUG, STAINLESS STEEL ROUND COVER AND SCREW, AND IRON PLUG WITH GASKET SEAL. REFER TO SPECIFICATIONS FOR INSTALLATION

KITCHEN GENERAL NOTES

1. REFERENCE THE KITCHEN EQUIPMENT PLUMBING CONNECTION SCHEDULEFOR ITEMS TO BE FURNISHED AND / OR INSTALLED AS REQUIRED TO COMPLETE THE INSTALLATION OF PLUMBING SYSTEMS FOR KITCHEN EQUIPMENT. COORDINATE WITH THE ARCHITECT FOR THE EXACT LOCATION OF EQUIPMENT AND ROUGH-IN. REFERENCE THE KITCHEN EQUIPMENT SHOP DRAWINGS AND COORDINATE WITH 365 FOR EXACT REQUIREMENTS PRIOR TO THE START OF INSTALLATION.
2. PROVIDE ITEMS AND WORK AS REQUIRED FOR A COMPLETE AND WORKING PLUMBING INSTALLATION FOR EACH PIECE OF KITCHEN EQUIPMENT. PROVIDE ROUGH-INS AND CONNECT TO THE KITCHEN EQUIPMENT WITH TRAPS, SUPPLIES, SHUTOFF VALVES, PIPES TO THE WALL, ESCUTCHEONS, ETC AS SHOWN, SPECIFIED AND REQUIRED.
3. WHERE "FLEX" TUBING IS CALLED FOR, PROVIDE A FOUR FOOT COILED LENGTH OF TYPE "K" SOFT COPPER TUBING FROM WATER SHUT-OFF VALVE TO THE EQUIPMENT CONNECTION OF SAME SIZE AS CONNECTION TO KITCHEN EQUIPMENT WITH 1/4" BEING MINIMUM SIZE. PROVIDE CONNECTORS AND ADAPTERS AS REQUIRED.
4. VERIFY GAS LOADS AND GAS ROUGH-IN OF KITCHEN EQUIPMENT WITH THE KITCHEN EQUIPMENT SHOP DRAWINGS PRIOR TO INSTALLING GAS PIPING. PROVIDE GAS COCKS, UNIONS, ETC. AS SPECIFIED AND REQUIRED. INSTALL GAS QUICK DISCONNECTS WHERE FURNISHED WITH THE KITCHEN EQUIPMENT.
5. PROVIDE INDIRECT WASTE LINES OF SAME SIZE AS CONNECTION TO EQUIPMENT WITH 3/4" BEING MINIMUM SIZE. ROUTE FROM EQUIPMENT CONNECTION POINTS INDICATED TO FLOOR DRAIN OR FLOOR SINK. PROVIDE AIR GAP OF TWO PIPE DIAMETERS MINIMUM PER CODE.
6. COMPLY WITH HEALTH DEPARTMENT REGULATIONS. PROVIDE CLEARANCE FOR CLEANING BEHIND AND UNDER EXPOSED PIPING AS REQUIRED BY HEALTH DEPARTMENT. CONFORM TO HEALTH DEPARTMENT REQUIREMENTS FOR LOCATIONS OF FLOOR SINKS.
7. NO PLUMBING ROOF PENETRATIONS SHALL BE INSTALLED THROUGH GREASE FILTER PANS ON THE ROOF. REFER TO MECHANICAL DRAWINGS PRIOR TO START OF INSTALLATION.
8. PROVIDE AIRTIGHT SEAL AROUND PIPING PENETRATIONS THROUGH WALK-IN COOLER OR FREEZER WALLS OR CEILINGS.
9. DO NOT INSTALL PIPING IN COOLER OR FREEZER WALLS. INSTALL EXPOSED PIPING IN A NEAT APPEARING MANNER.
10. INSTALL RIM OF FLOOR DRAINS AND FLOOR SINKS BELOW FINISHED FLOOR LEVEL. SLOPE FLOOR TO DRAINS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.
11. COORDINATE LOCATION OF VENT, WATER, AND GAS PIPING TO AVOID CONFLICT WITH OTHER TRADES.
12. CLEAN INSTALLED PLUMBING FIXTURES AND EQUIPMENT.
13. PROVIDE WALL BACKING OR SPECIFIED CARRIERS FOR THE PROPER SUPPORT OF INSTALLED WALL HUNG FIXTURES AND EQUIPMENT.
14. PROVIDE VERTICAL LIFT SPRING LOADED CHECK VALVES IN HOT AND COLD WATER SUPPLIES FOR 3-COMPARTMENT SINKS, PRE-RINSE UNITS, JANITOR SINKS, MIXING HOSE BIBBS & MIXING WALL HYDRANTS DOWNSTREAM OF SHUTOFF VALVES.
15. SEAL AROUND INSTALLED FIXTURES AND KITCHEN EQUIPMENT WITH CAULK.
16. PROVIDE APPROPRIATE BACKFLOW PREVENTION DEVICES FOR KITCHEN EQUIPMENT REQUIRING THEM PER LOCAL AUTHORITIES REQUIREMENTS. INSTALL BACKFLOW PREVENTION DEVICES FURNISHED WITH KITCHEN EQUIPMENT.

TOTAL CONNECTED NATURAL GAS LOAD

DEVELOPER INSTALLED GAS SERVICE TO ACCOMODATE UP TO 7,000 MBH AT 2 PSI AND A DEVELOPED LENGTH OF 550'-0".
TOTAL USAGE 3,041. EXISITNG GAS SESRVICE WILL ACCOMODATE NEW LOAD.

KITCHEN EQUIPMENT :

EQUIPMENT DESIGNATION	QUANTITY	DESCRIPTION	CFH (EACH)	TOTAL CFH
5-111	2	DOUBLE STACK STEAMER	60	120
5-124	1	DOUBLE STACK CONVECTION OVEN	90	90
5-132	1	GRIDDLE	81	81
5-133	1	CHAR-BROILER	102	102
			TOTAL =	393

MECHANICAL EQUIPMENT :

EQUIPMENT DESIGNATION	QUANTITY	DESCRIPTION	CFH (EACH)	TOTAL CFH
WH	2	WATER HEATER	199	398
			TOTAL =	398

MISC. LOAD :

FUTURE FRIENDS OF 365	1	---	1500	1500
FUTURE FRIENDS OF 365	1	---	750	750
			TOTAL CONNECTED LOAD =	3041

GENERAL NOTES

2. 1. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. FURNISH A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS PREPARED BY THE ENGINEER-OF-RECORD AFTER FINAL INSPECTION OF INSTALLED PLUMBING SYSTEMS.
3. FURNISH TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
4. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.
5. UTILITY INSTALLATIONS SHALL COMPLY WITH ALL LEGALLY CONSTITUTED UTILITY COMPANIES SERVICE REQUIREMENTS HAVING JURISDICTION.
6. VERIFY LOCATION AND DEPTH OF UTILITIES AT ALL POINTS OF CONNECTION INDICATED ON DRAWINGS BEFORE START OF PROJECT.
7. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
8. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.
9. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.
10. PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.
11. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, REFRIGERATION PIT AND TUNNEL SYSTEMS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED. REFRIGERATION PIT AND TUNNEL SYSTEM INSTALLED BY GENERAL CONTRACTOR. PIPING INVERTS AND SLOPE SHALL BE CLOSELY COORDINATED TO AVOID CONFLICTS WITH ALL OTHER TRADES BELOW SLAB WORK.
12. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
13. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
14. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
15. COORDINATE THE PAINTING OF ALL EXPOSED GAS AND WATER PIPING WITH A RUST INHIBITOR PAINT PER THE ARCHITECT'S SPECIFICATIONS.
16. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL ROOF TOP AIR INTAKES AND ROOF EDGES AND/OR PARAPETS. MAINTAIN 2' CLEARANCE FROM ALL OTHER ROOF TOP EQUIPMENT.
17. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.
18. COORDINATE AND INSTALL ALL FLOOR AND WALL CLEANOUTS IN FREE AND ACCESSIBLE LOCATIONS FOR MAINTENANCE PER ARCHITECTURAL DRAWINGS. CLEANOUTS INSTALLED BENEATH OR BEHIND EQUIPMENT OR CASES SHALL BE RELOCATED AT CONTRACTOR'S EXPENSE WITH NO EXTRA COST TO 365.
19. COORDINATE AND INSTALL ALL FLOOR DRAINS, TRENCH DRAINS, AND FLOOR CLEANOUTS TO BE SET AND PLUMB FLUSH WITH FINISH FLOOR ELEVATIONS INDICATED ON ARCHITECTURAL DRAWINGS. NO CRACKS, RISE OR FALLS IN FINISH FLOOR AROUND DRAINS TOPS SHALL BE PERMITTED. CORRECTIONS SHALL BE AT CONTRACTOR'S EXPENSE WITH NO EXTRA COST TO 365.
20. ALL FLOOR DRAINS SHALL HAVE DEEP SEAL TRAPS INSTALLED TO PREVENT EVAPORATION BREAKING THE COMBINATION WASTE AND VENT SYSTEM.
21. INSTALL FLOOR DRAINS AS INDICATED ON DRAWINGS. IF CONFLICTS ARE FOUND, NOTIFY ARCHITECT AS SOON AS POSSIBLE TO RESOLVE ISSUE SO NOT TO DELAY WORK SCHEDULE. DRAINS NOT INSTALL AS INDICATED OR DAMAGE TO DRAIN BODIES OR GRATES DUE TO REMOVAL OF DRAIN PROTECTIVE COVERINGS DURING CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE WITH NO EXTRA COST TO 365.
22. COORDINATE AND VERIFY ALL REFRIGERATION CASE DRAIN LOCATIONS WITH THE ARCHITECT AND THE REFRIGERATION CONTRACTOR PRIOR TO ROUGH-IN AND FINAL INSTALLATIONS. PIPING SHALL TERMINATE ABOVE DRAIN'S FLOOD RIM WITH CODE REQUIRED AIR GAP. CASE DRAINS SHALL BE ALIGNED AND INSTALLED IN A PROFESSIONAL MANOR TO BE STRAIGHT, PARALLEL AND EQUALLY SPACE ON THE FRONT FACE OF THE CASE KICKPLATES. ANY CASE DRAINS NOT MEETING ABOVE REQUIREMENTS UPON FINAL INSPECTION SHALL BE CORRECTED AT THE PLUMBING CONTRACTOR'S EXPENSE WITH NO EXTRA COST TO 365.
23. BELOW SLAB PLUMBING SYSTEMS ARE PROHIBITED BENEATH FREEZER UNITS. PLUMBING SYSTEMS INSTALLED NEAR FREEZER UNITS SHALL BE WRAPPED WITH 3/4" ARMAFLEX PIPE INSULATION.
24. NO PIPING SHALL BE INSTALL WITHIN REFRIGERATED PANEL WALLS OF FREEZER/COOLER UNITS. ANY PIPING INSTALLED ON EXTERIOR FACE OF REFRIGERATED PANEL WALLS SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL WORKMAN LIKE MANNER, PIPING SHALL BE PROPERLY SUPPORTED.
25. ALL PLUMBING FIXTURE SHUT-OFF AND/OR BALANCING VALVES INSTALLED IN PIPE CHASES SHALL BE ACCESSIBLE FROM JUST ABOVE THE CEILING LINE OR ACCESS DOORS PROVIDED LOW IN CHASE WALL.
26. PROVIDE PROPER FREE STANDING INTERNAL WALL SUPPORTS FOR ALL PLUMBING WALL HUNG FIXTURES TO PREVENT PULLOUT FROM WALL.
27. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL FINAL CLEANING AND GUARANTEE PROPER WORKING OPERATIONS OF INSTALLED FIXTURES FURNISHED BY CONTRACTOR AND/OR 365. CAULK ALL PLUMBING FIXTURES TO WALLS AND FLOORS WITHIN FOOD PREP AREAS IN ACCORDANCE WITH LOCAL HEALTH DEPARTMENT CODES AND REGULATIONS.
28. FURNISH AND INSTALL ESCUTCHEONS AT ALL PIPE PENETRATIONS THROUGH FINISHED WALLS.
29. PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND 365 FURNISHED EQUIPMENT SCHEDULE IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. INSTALL OR PROVIDE ALL REQUIRED SHUT-OFFS, BACKFLOW PREVENTERS, PRESSURE REGULATORS, FILTERS, AND CONDENSATE DRAINS AS INDICATED ON THE SCHEDULES AND/OR ASREQUIRED BY ALL STATE OR LOCAL CODES AND REGULATIONS. REFERENCE EQUIPMENT CUT-SHEETS FOR ADDITIONAL FINAL CONNECTION REQUIREMENTS NOT SHOWN ON THESE DRAWINGS.
30. INSTALL ENTIRE GAS PIPING SYSTEM ON BUILDING ROOF AS INDICATED ON DRAWINGS. MINIMIZE GAS PIPING INSTALLED INSIDE THE BUILDING SHELL SERVING INTERIOR EQUIPMENT. PROVIDE ALL REQUIRED REGULATORS, GAS COCK SHUT-OFFS, AND SUPPORTS AS REQUIRED FOR A COMPLETE WORKING GAS SYSTEM.
31. REFRIGERATION CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDENSATE DRAINAGE PIPING FROM REFRIGERATION SYSTEM FREEZER AND COOLER EVAPORATOR UNITS TO FLOOR DRAINS WHERE INDICATED ON DRAWINGS. PROVIDE CLEANOUTS AT ALL MAJOR CHANGE OF DIRECTION IN PIPING SYSTEMS, PIPE HANGERS, AND FITTINGS AS REQUIRED FOR A COMPLETE DRAIN SYSTEM INSTALLATION. MINIMUM SIZE OF PIPING SHALL BE 3/4" COPPER TUBING. CONNECTIONS MADE AT EVAPORATOR UNIT SHALL BE INCREASED AS MULTIPLE EVAPORATORS ARE ADDED TO CONDENSATE MAIN. INSTALL ALL DRAINAGE PIPING HIGH AS POSSIBLE, WHILE MAINTAINING A PROPER FALL OF 1/8" PER 1'-0" MINIMUM. INSTALL DRAIN PIPING DOWN EXTERIOR FACE OF FREEZER OR COOLER BOX WALL TO CONDENSATE DRAIN WITH FUNNEL. TERMINATE PIPING OVER FLOOR RIM OF FUNNEL WITH CODE APPROVED AIR GAP. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL HEAT TRACE ON ALL INTERIOR FREEZER STORAGE CONDENSATE PIPING. ALL FREEZER/COOLER CASE CONDENSATION PIPING SHALL HAVE PIPING INSULATION INSTALLED BY REFRIGERATION CONTRACTOR. ALL PIPE PENETRATIONS THROUGH REFRIGERATED PANEL WALLS SHALL BE SEALED AIRTIGHT. ANY EVAPORATOR DRAIN SYSTEM NOT MEETING THESE REQUIREMENTS UPON FINAL INSPECTION, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE WITH NO EXTRA COST TO 365.
32. PLUMBING CONTRACTOR SHALL PROVIDE TRENCHING AND BACKFILLING FOR REFRIGERATION TUBES.

GAS PRESSURE REGULATOR SCHEDULES FOR 5 PSI SYSTEMS

MARK	MANUFACTURER & MODEL NUMBER	VALVE TYPE	VALVE BODY SIZE (INCHES)	MAX. FLOW RATE (CFH)	INLET PRESSURE (PSI)	OUTLET PRESSURE INCHES WATER COLUMN	NOTES
GPR1	MAXITROL 325-5L-48	C	1/2"	235	1.5	7"	1 ~ 8
GPR2	MAXITROL 325-7A210D	C	1-1/4"	1,250	1.5	7"	1 ~ 8
GPR3	MAXITROL 325-9L210E	C	1-1/2"	2,250	1.5	7"	1 ~ 8

NOTES:

1. C = SELF CONTAINED "DIRECT ACTING" DIAPHRAGM TYPE WITH INTERNAL VENT LIMITER
2. DROOP = 1" WATER COLUMN MAXIMUM
3. 65# ALUMINUM BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 25#
4. MAXIMUM FLOW RATE SCHEDULED, MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS.
5. LISTED TO MEET ANSI Z21.80 / CSA 6.22 WITH CSA LISTING STAMP ON REGULATOR BODY
6. GAS PRESSURE REGULATOR INLET PRESSURE - OPERATING PRESSURE - DESIGN FRICTION LOSS
7. 5 PSI MAXIMUM INLET PRESSURE & 1 PSI MINIMUM INLET PRESSURE.
8. PROVIDE WITH SEPARATE OVERPRESSURE PROTECTION DEVICE (OPD)

WATER HEATER SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	AREA SERVED	ENERGY SOURCE	TANK SIZE (GALLONS)	INPUT	RECOVERY (GPH)	NOTES
WH1	RHEEM #GHE 100ES-200	GROCERY	NATURAL GAS	100	199 MBH	231	1,2
WH2	RHEEM #GHE 100ES-200	GROCERY	NATURAL GAS	100	199 MBH	231	1,2

NOTES:

1. 100° TEMPERATURE RISE WITH 140° (F) OPERATING TEMPERATURE.
2. FURNISH WITH RHEEM 3" CONCENTRIC COMBUSTION AIR INTAKE AND EXHAUST KIT.

EXPANSION TANK SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	TANK SIZE (GALLONS)	MINIMUM ACCEPTANCE VOLUME (GALLONS)	SERVICE	NOTES
ET	AMTROL ST-25V	10.3	4,635	GROCERY	1

NOTES:

1. CHARGE TANK WITH AIR TO IDENTICAL PRESSURE AS STATIC DOMESTIC WATER PRESSURE

FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (FV)	1-1/4"	---	4"	2"
URINAL	1"	---	2"	2"
LAVATORY / HAND SINK	1/2"	1/2"	2"	1-1/2"
DRINKING FOUNTAIN	1/2	---	2"	1-1/2"
JANITOR'S SINK	1/2"	1/2"	3"	2"
FLOOR DRAIN	---	---	3"	2"
SINK	1/2"	1/2"	2"	2"

NOTES:

1. PIPE SIZES SHOWN ARE MINIMUM.

RECIRCULATION PUMP SCHEDULE

MARK	MANUFACTURER & MODEL NUMBER	GPM	HEAD (FT.)	CONNECTION SIZE	IMPELLER SIZE (IN.)	ELECTRICAL DATA			NOTES
						VOLTS	PHASE	HP	
RP	BELL & GOSSETT # NBF-36	2.5	19	3/4"	N/A	120	1	1/6	1,2,3

NOTES:

1. ALL LEAD FREE CAST BRONZE BOOSTER
2. PROVIDE WITH STRAINER UPSTREAM OF PUMP
3. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE
ENERGY SOLUTIONS
Energy Squared Texas
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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager:
EG
Checked By:

Drawn by:
KJG
Document date:
01/26/18
Template date:

Project No.
62911019

Professional Seal

05/21/2018

Sheet Title
PLUMBING SYMBOLS, SCHEDULES & NOTES

Sheet No.
P000

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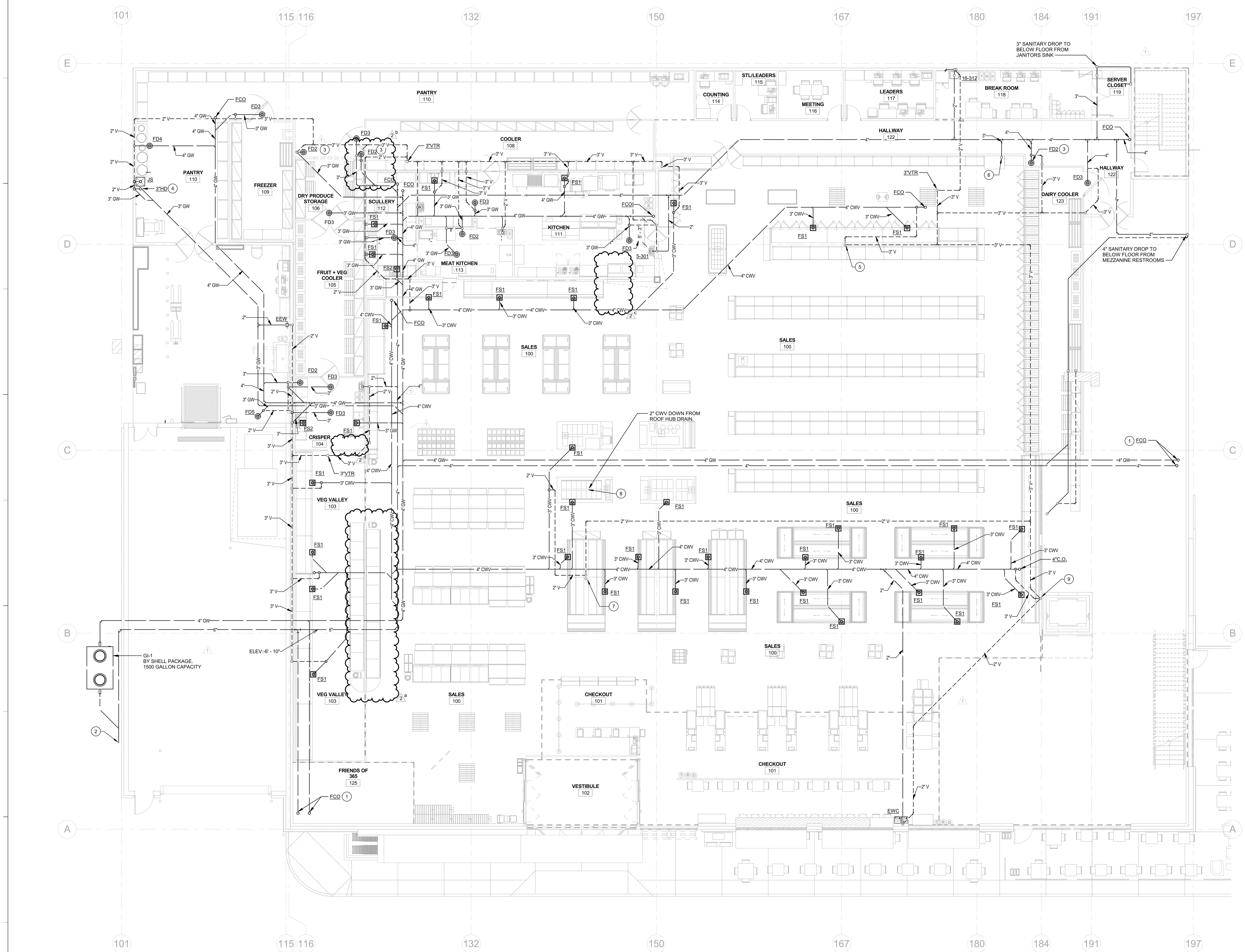

1 PLUMBING WASTE AND VENT PLAN
1/8" = 1'-0"

GENERAL PLUMNING NOTES:

1. GREASE INTERCEPTOR, TRENCH DRAIN, ELEVATOR SUMP ARE PART OF THE DEVELOPER PACKAGE PLANS. REFER TO DEVELOPER PLANMS FOR FURTHER INFORMATION.

1 PROVIDE SANITARY AND GREASE WASTE PIPING CLEANOUTS FOR FRIEND OF 365 TENANT SPACE. SIZE PER PLAN.
2 REFER TO DEVELOPER PLANS FOR CONTINUATION OF SANITARY AND GREASE WASTE PIPING.
3 FLOOR DRAIN RECEIVING INDIRECT DISCHARGE FROM EVAP. COIL. TERMINATE WITH AIR GAP AS REQUIRED.
4 HUB DRAIN RECEIVING INDIRECT DISCHARGE FROM WATER HEATER AND WATER SOFTENER. TERMINATE WITH AIR GAP AS REQUIRED.
5 RISE VENT PIPING IN REFRIGERATION CHASE TO STRUCTURE AND CONNECT TO VENT SYSTEM.
6 HUB DRAIN RECEIVING INDIRECT DISCHARGE FROM AQUA KIOSK. TERMINATE WITH AIR GAP AS REQUIRED.
7 RISE VENT PIPING IN REFRIGERATION CHASE TO STRUCTURE AND DROP CWV PIPING FROM HUB DRAIN ON ROOF. CONNECT VENT PIPING TO VENT SYSTEM AS SHOWN.
8 CWV PIPING FROM HUB DRAIN ON ROOF. ROUTE CLOSE TO STRUCTURE AND DROP IN REFRIGERATION CHASE AS INDICATED.
9 RISE VENT PIPING UP TO STRUCTURE AND CONNECT TO VENT SYSTEM.

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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Document date: 01/26/18

Template date:

Project No.

62911019

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05/21/2018

Sheet Title

PLUMBING WASTE & VENT PLAN

Sheet No. **P100**

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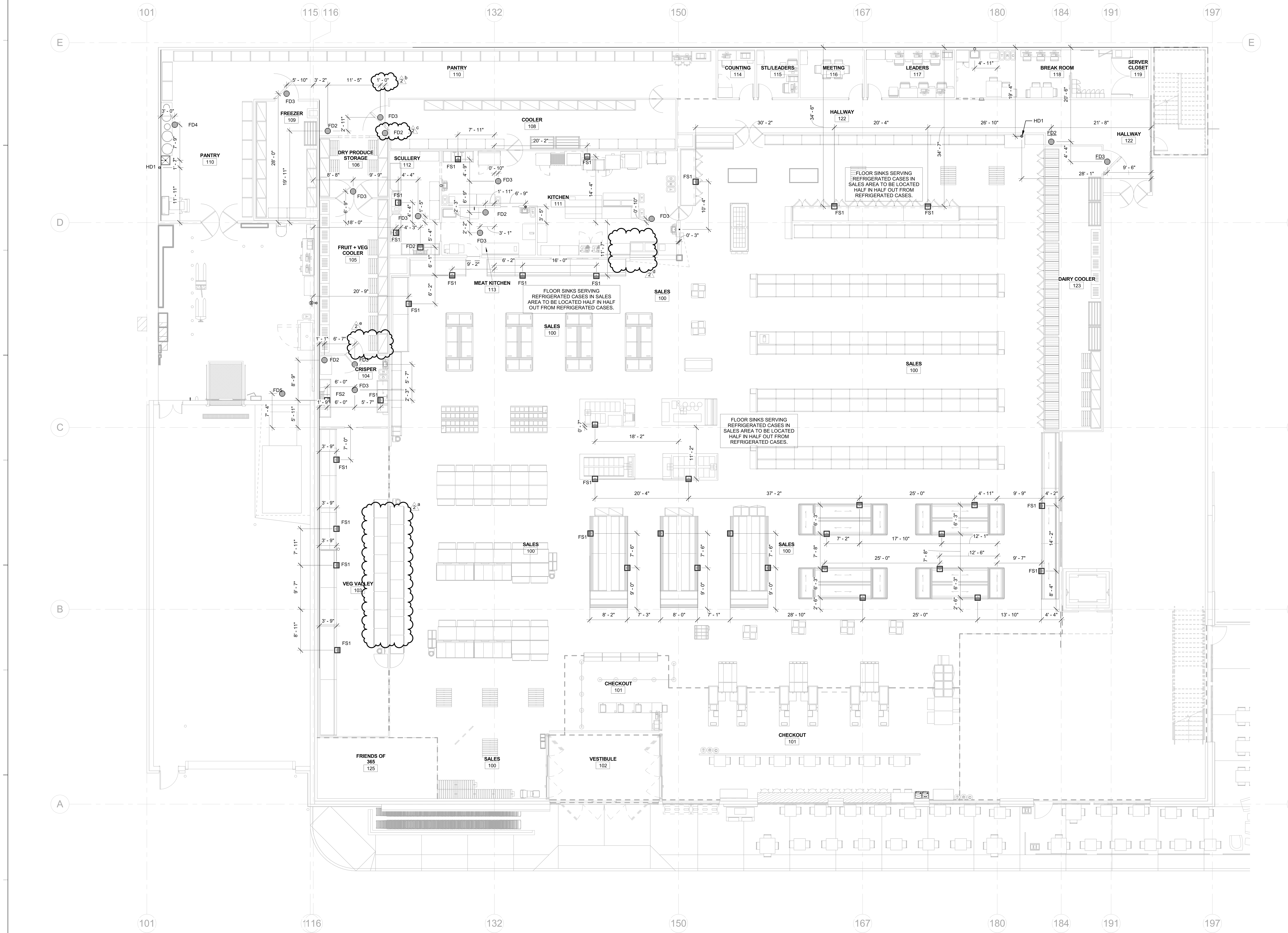

1 PLUMBING DRAIN DIMENSION PLAN
1/8" = 1'-0"

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

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Template date:

Project No. 62911019

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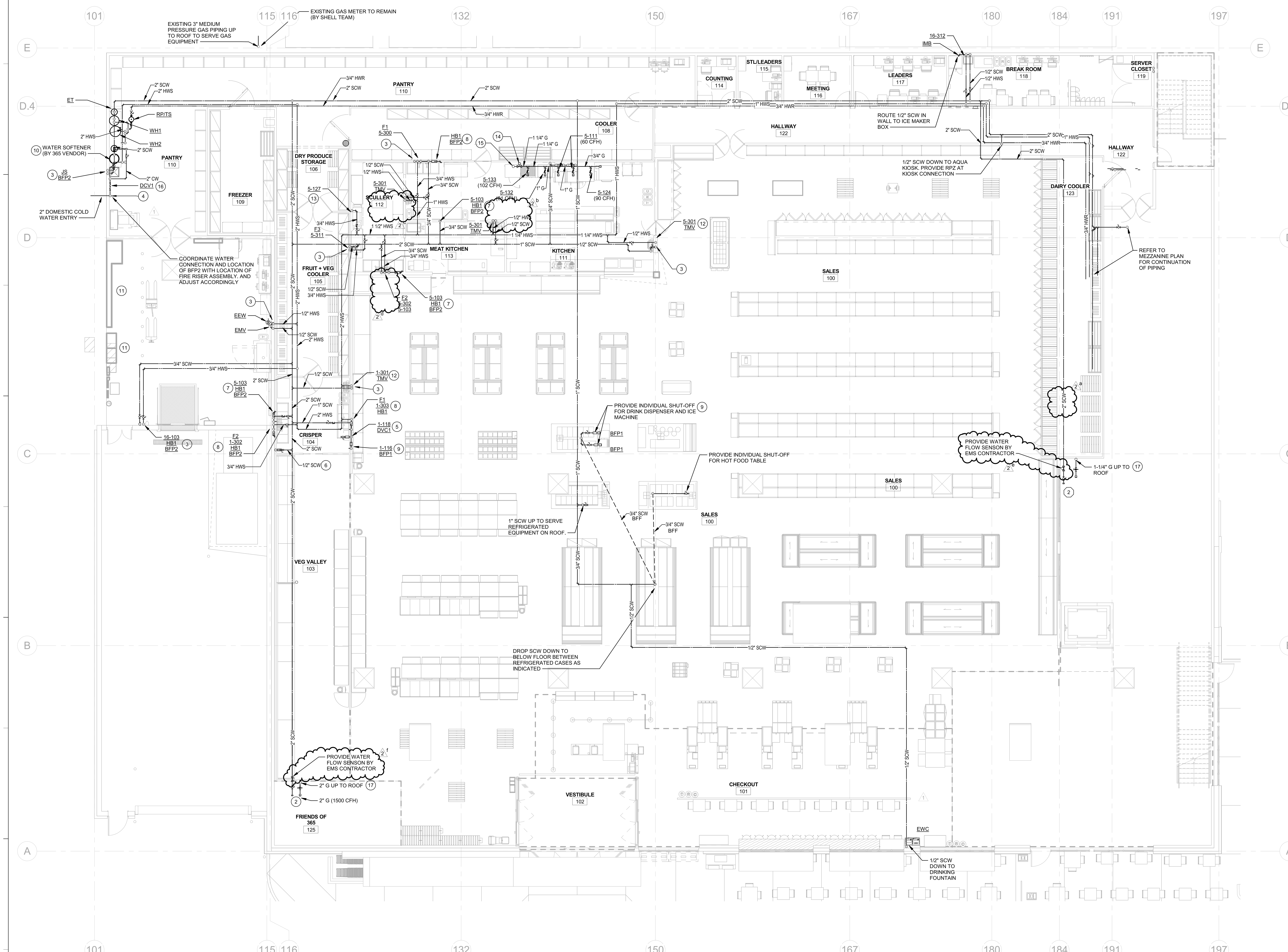
05/21/2018

Sheet Title
PLUMBING DRAIN DIMENSION PLAN

Sheet No. P101



1 PLUMBING DOMESTIC WATER AND GAS PLAN
1/8" = 1'-0"

PLUMBING KEYED NOTES:

1. PROVIDE TRAP PRIMER FOR FLOOR DRAIN(S). PROVIDE LINE FROM TRAP PRIMER VALVE TO EACH FLOOR DRAIN. TRAP PRIMER TO BE INSTALLED IN A CLEAR AND ACCESSIBLE LOCATION.
2. PROVIDE COLD WATER AND GAS STUBOUT WITH SHUTOFF VALVE FOR FRIEND OF 365 TENANT SPACE. SIZE PER PLAN.
3. ROUTE HOT AND COLD WATER DOWN TIGHT TO WALL. ROUTE PIPING STACKED HORIZONTALLY LOW ON WALL AND CONNECT TO PLUMBING FIXTURE AS NECESSARY. PROVIDE SHUTOFF VALVE IN VERTICAL RISER IN ACCESSIBLE LOCATION.
4. CONNECT TO EXISTING COLD WATER OUTLET FROM BOOSTER PUMPUT. FIELD VERIFY EXACT SIZE AND LOCATION OF BOOSTER PUMP PRIOR TO START OF WORK.
5. PROVIDE 1/2" SCW WITH SHUTOFF VALVE AFTER BACKFLOW PREVENTER TO PRODUCE MISTING SYSTEM. FIELD VERIFY EXACT LOCATION.
6. 1/2" SCW DOWN TO PRODUCE CASE WASH DOWN SYSTEM. CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
7. 3/4" SCW TO BACKFLOW PREVENTER MOUNTED BELOW SINK. ROUTE HW FROM BACKFLOW PREVENTER TO HOSE BIBB TO SERVE HOSE REEL.
8. 3/4" HW TO BACKFLOW PREVENTER MOUNTED BELOW SINK. ROUTE HW FROM BACKFLOW PREVENTER TO SOAP AND SANITIZING DISPENSER PROVIDED BY OTHERS. ROUTE RELIEF DISCHARGE TO NEAREST DRAIN.
9. ICE MAKER FURNISHED AND INSTALLED WITH WATER FILTER FROM SUPPLIER.
10. PLUMBING CONTRACTOR TO INSTALL SOFTENER INCLUDING SALT AND START-UP FURNISHED BY SUPPLIER. COORDINATE WITH ROD GEOGHEGAN AT EAST BAY RESTAURANT SUPPLY AT 510-627-0238, RODG@EBRS.NET.
11. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS.
12. PROVIDE HAND SINK WITH 1.8 GPM AERATOR.
13. CONNECT 1/2" HW TO DISHWASHER. CONNECT PER MANUFACTURER'S RECOMMENDATIONS. CONNECT 1/2" SCW TO COLD WATER TEMPERING KIT FURNISHED WITH DISHWASHER PER MANUFACTURER'S RECOMMENDATIONS.
14. INSTALL AUTOMATIC GAS SHUT-OFF VALVE IN ACCESSIBLE LOCATION TO COOK HOOD, FURNISHED BY HOOD MANUFACTURER.
15. ROUTE GAS PIPING DOWN THROUGH ROOF TO SERVE KITCHEN EQUIPMENT. SIZE PER PLAN. COORDINATE PIPE PENETRATION INSTALLATION THROUGH ROOF AND ROOFING MEMBRANE WITH ROOFING CONTRACTOR SO NOT TO VOID ROOF WARRANTY.
16. INSTALL BACKFLOW PREVENTER ON WALL IN A CLEAR AND ACCESSIBLE LOCATION ADJACENT TO EQUIPMENT.
17. COORDINATE LOCATION OF GAS PIPING FOR FRIENDS OF 365 WITH DEVELOPERS PLANS.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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2	05/21/18	Addendum #2

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365 BY WHOLE FOODS MARKET

Project Manager: EG
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Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
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05/21/2018

Sheet Title
PLUMBING WATER & GAS PLAN

Sheet No.
P102

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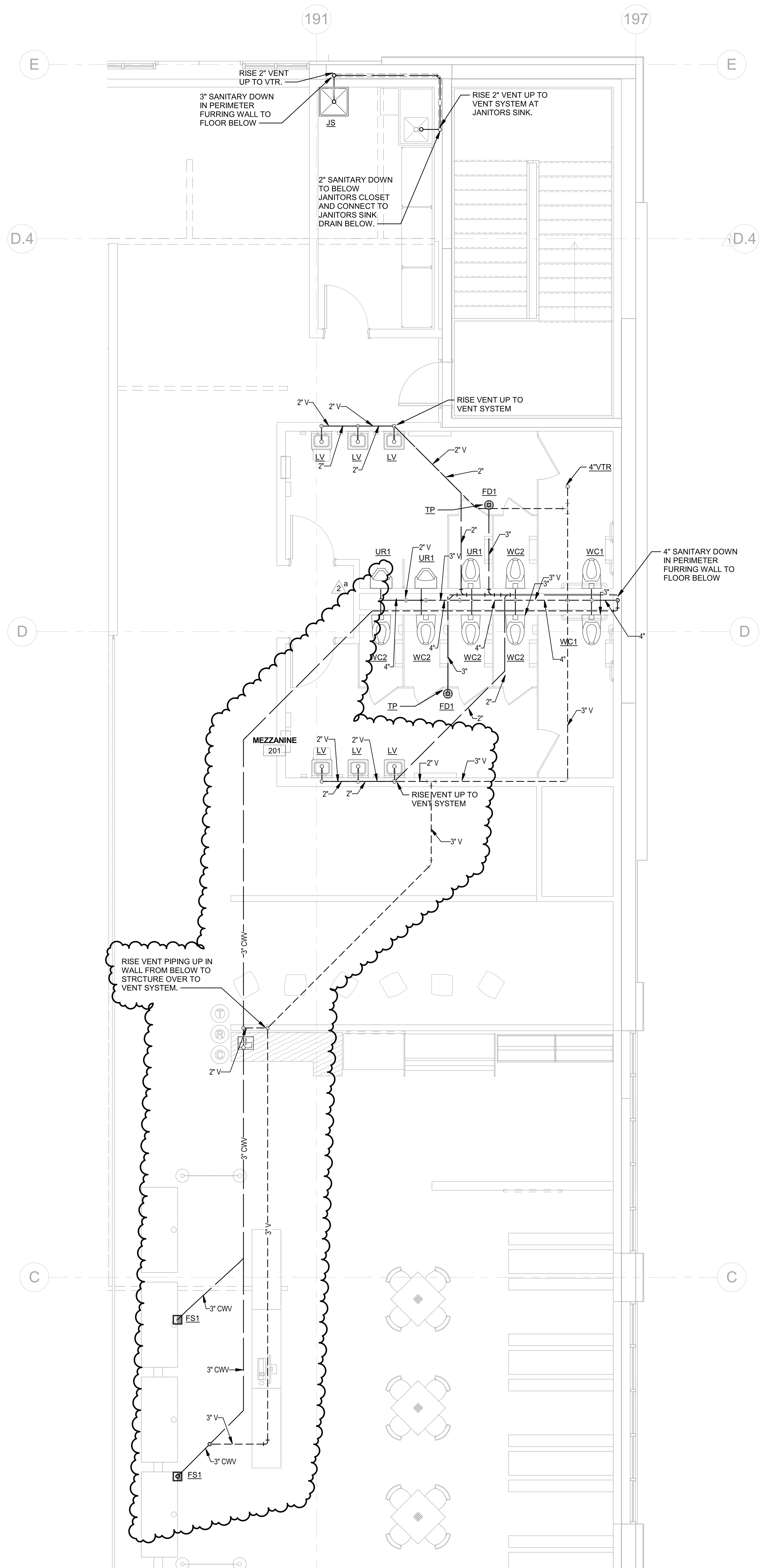
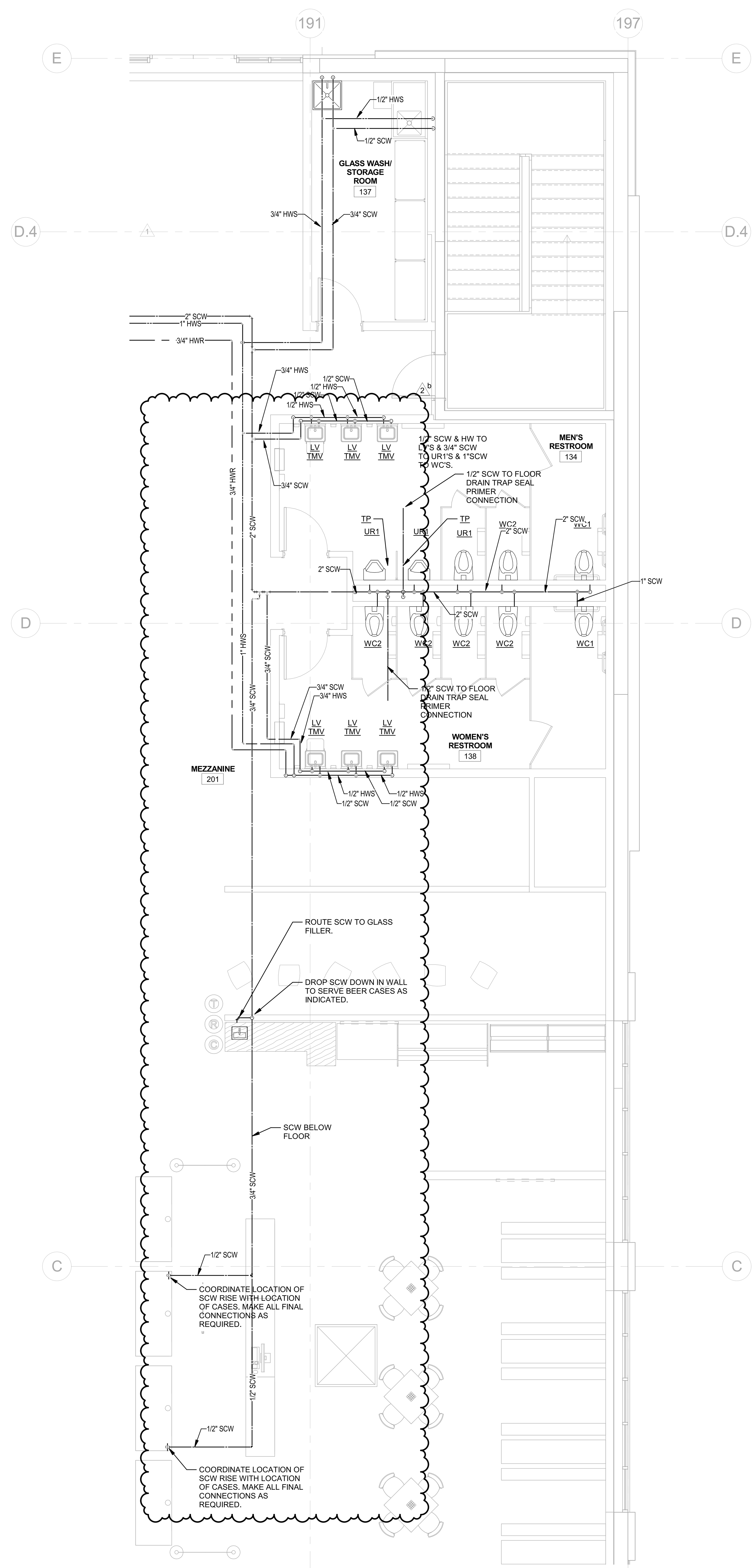


2 MEZZANINE WASTE AND VENT PLAN

1/4" = 1'-0"



1 MEZZANINE WATER AND GAS PLAN

1/4" = 1'-0"

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
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Project Manager: EG
Checked By:
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Document date: 01/26/18
Template date:

Project No.
62911019

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05/21/2018

Sheet Title
PLUMBING MEZZANINE PLAN

Sheet No. P103

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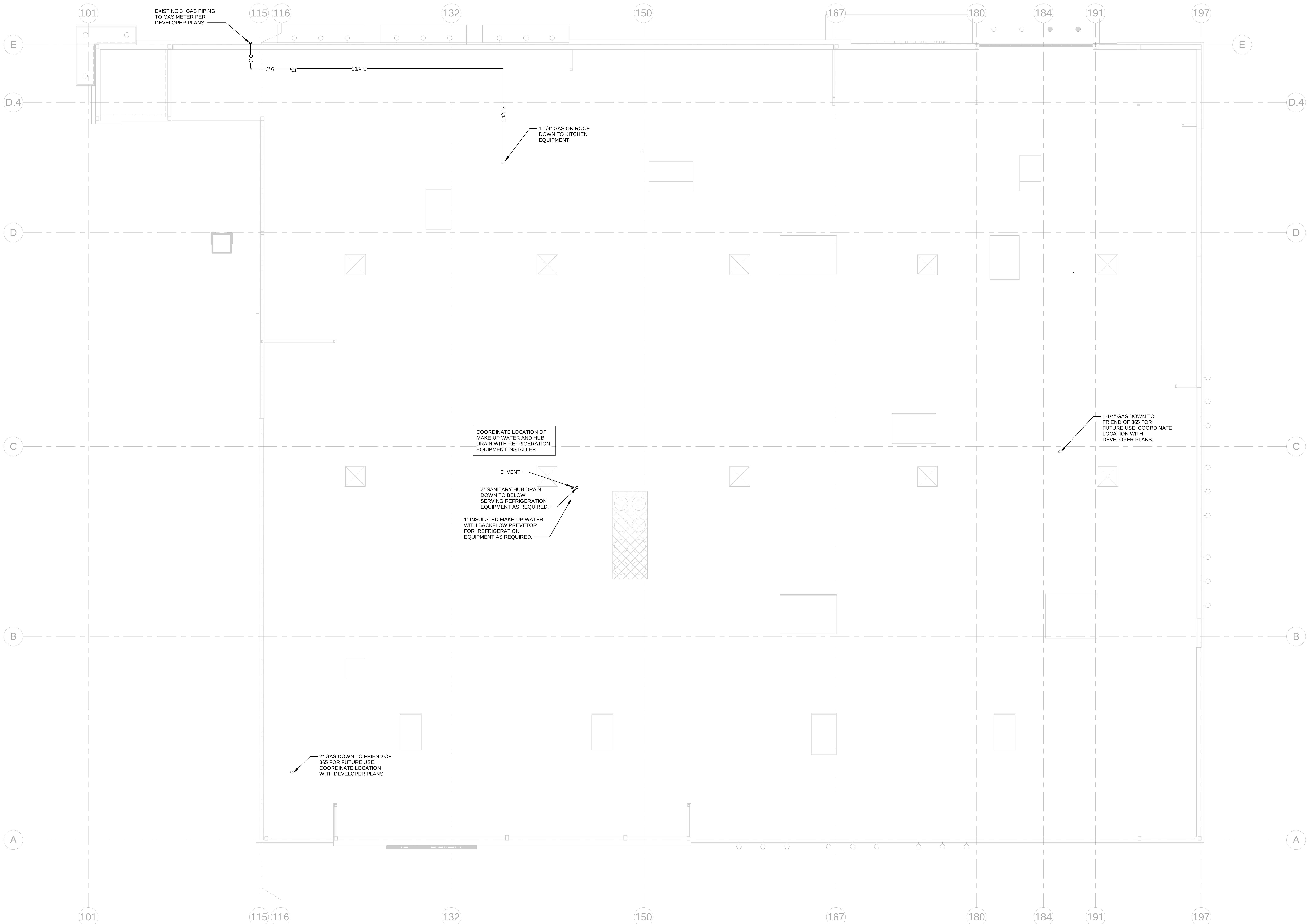

1 MEP-ROOF
1/8" = 1'-0"

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Energy Squared Texas
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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
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Project Name

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Document date:
01/26/18
Template date:

Project No.
62911019

Professional Seal

03/06/2018

Sheet Title
PLUMBING ROOF PLAN

Sheet No.
P104

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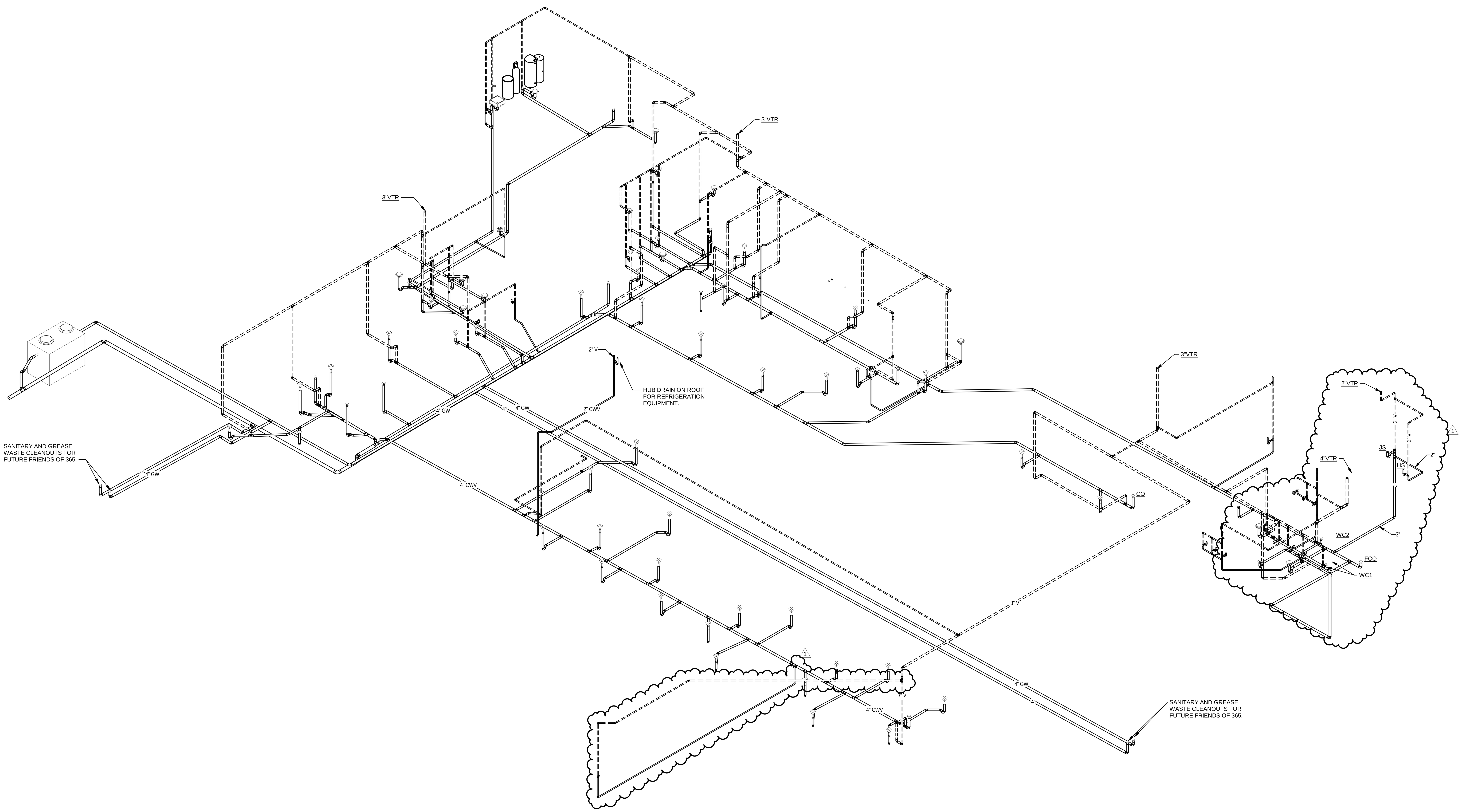

1 WASTE AND VENT RISER

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
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NO.	DATE	DESCRIPTION
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1	03/06/18	ADDENDUM 1

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
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Project Manager:
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Drawn by:
KJG
Document date:
01/26/18
Template date:

Project No.
62911019

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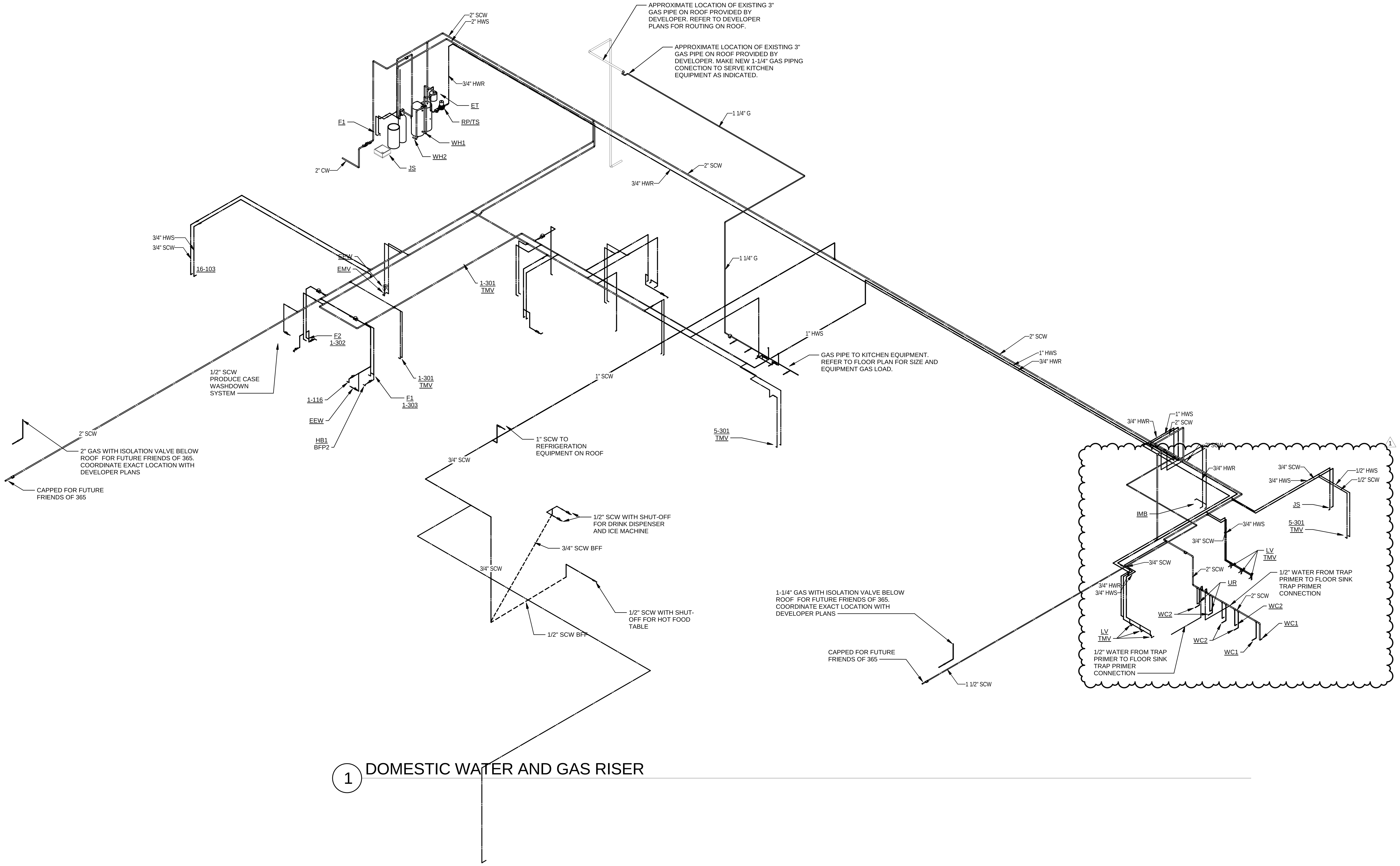
03/06/2018

Sheet Title
PLUMBING WASTE & VENT RISER DIAGRAM

Sheet No.
P200



1 DOMESTIC WATER AND GAS RISER

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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KJG
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01/26/18
Template date:

Project No.
62911019

Professional Seal

03/06/2018

Sheet Title
PLUMBING WATER AND GAS RISER DIAGRAM

Sheet No.
P201

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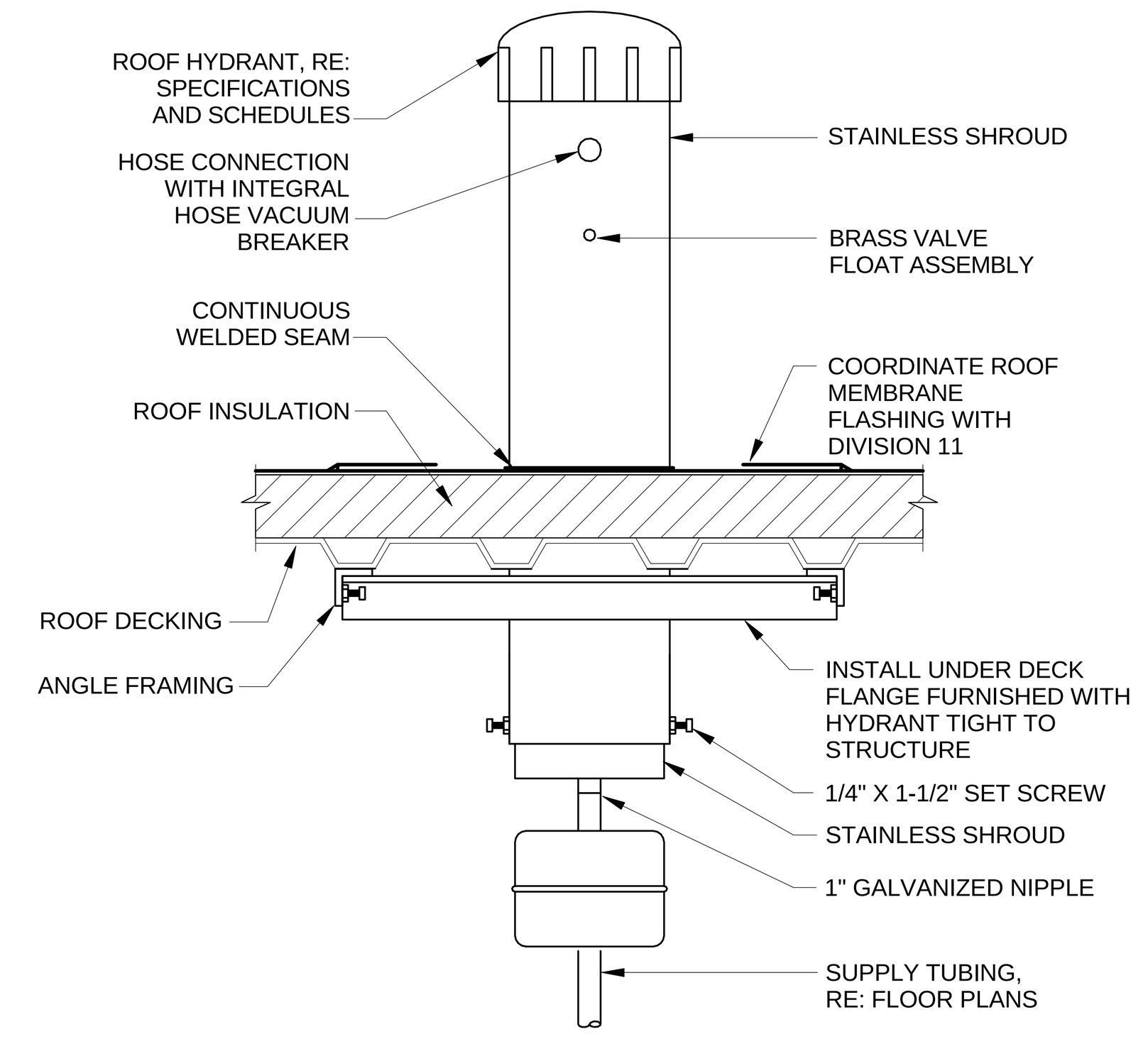
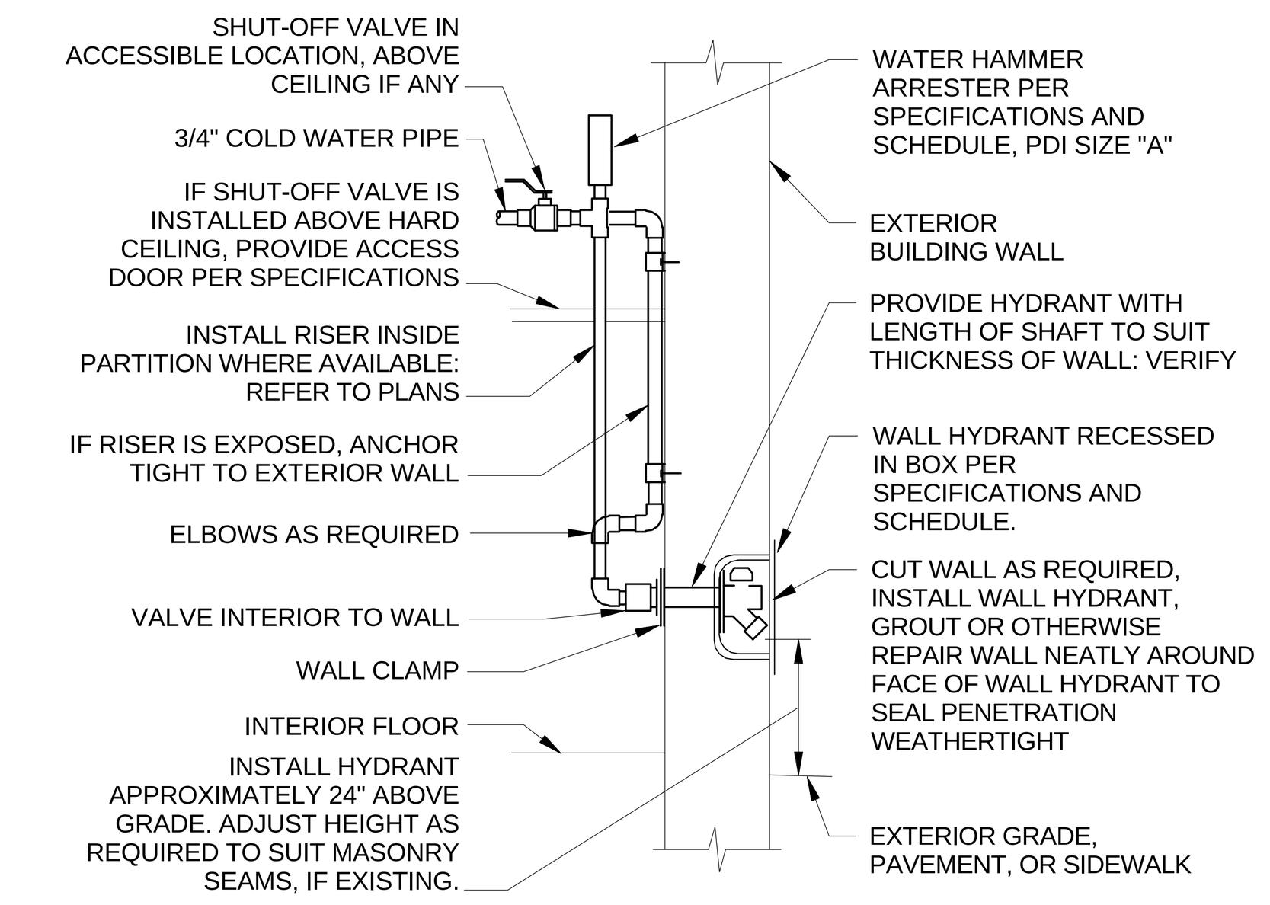


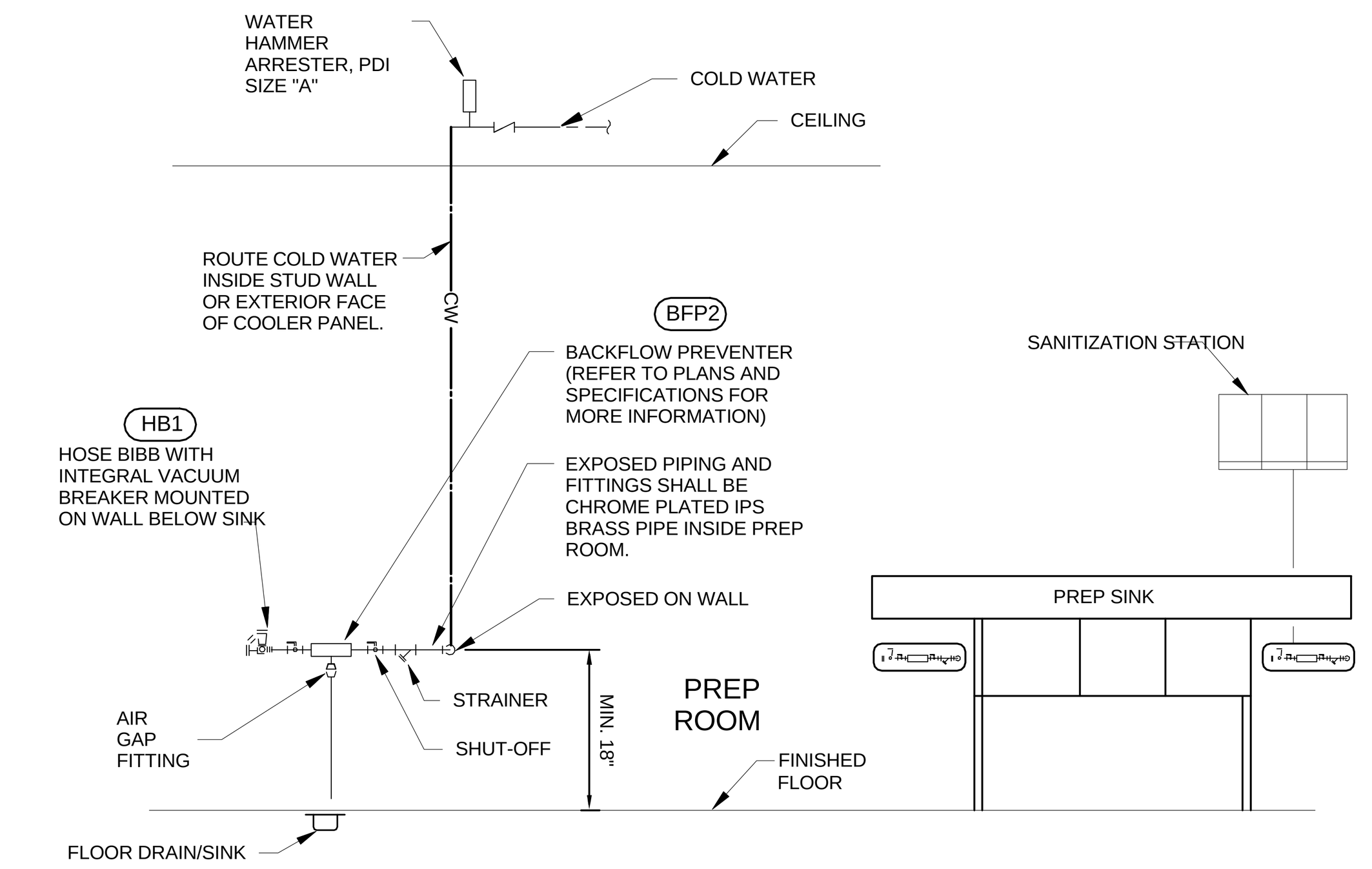
PIPING ARRANGEMENT SHOWN IS SCHEMATIC, ADJUST TO SUIT FIELD CONDITIONS. RE: FLOOR PLANS FOR LOCATION.

15 ROOF HYDRANT DETAIL
NTS



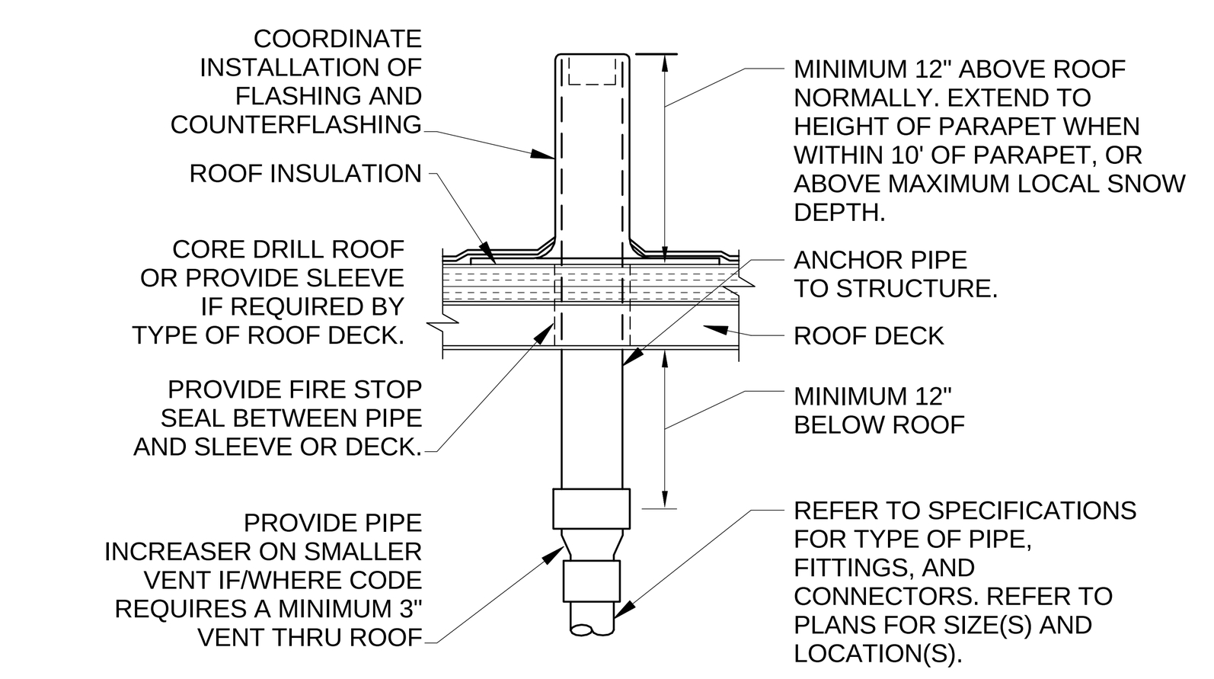
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT FIELD CONDITIONS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. IN NON-FREEZING CLIMATES, PIPE MAY BE INSTALLED CONCEALED IN EXTERIOR WALL RATHER THAN EXTERIOR TO WALL AS SHOWN. REFER TO PLANS FOR LOCATION.

14 WALL HYDRANT INSTALLATION
NTS



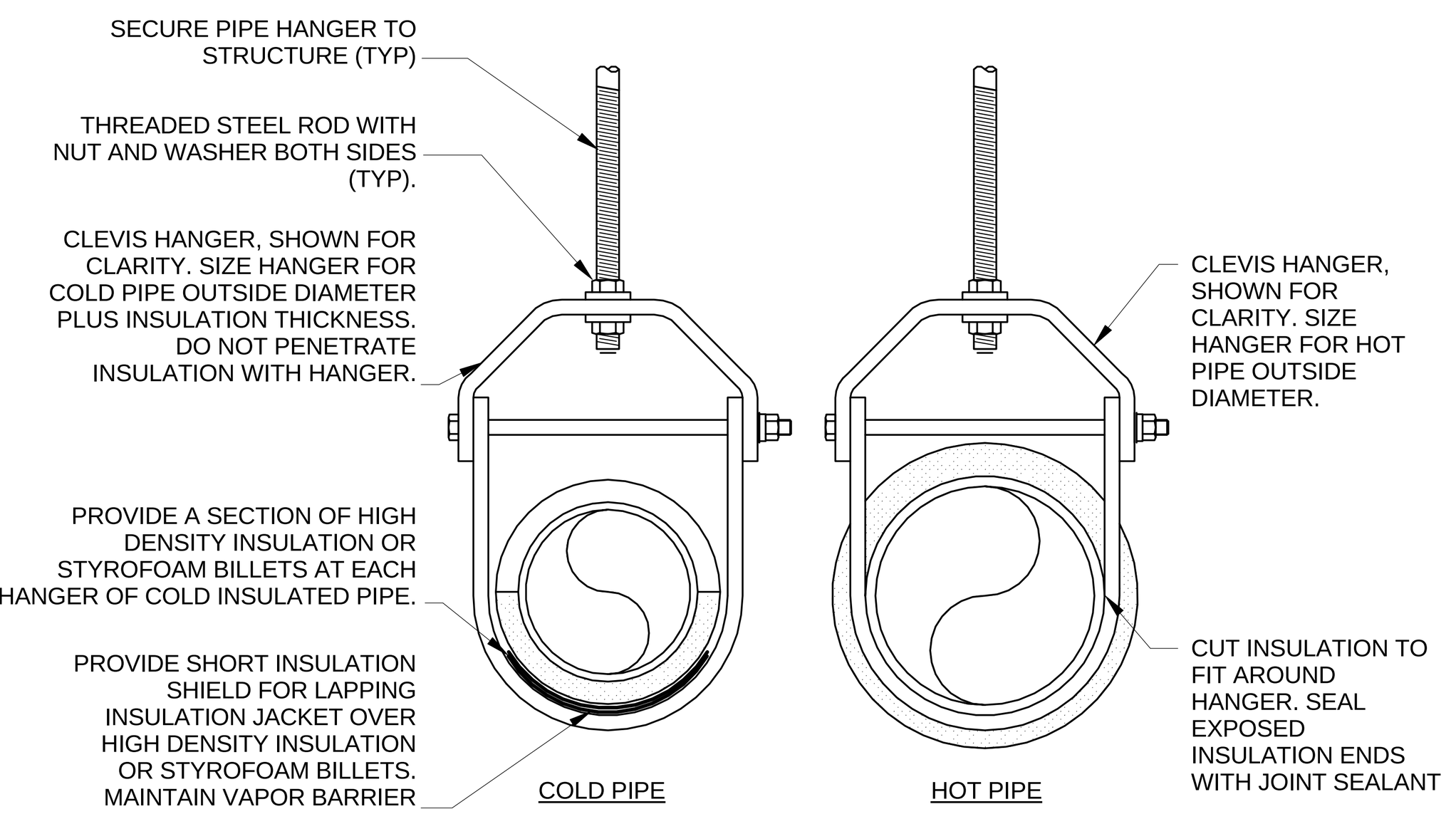
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

13 HOSE REEL DETAIL
NTS



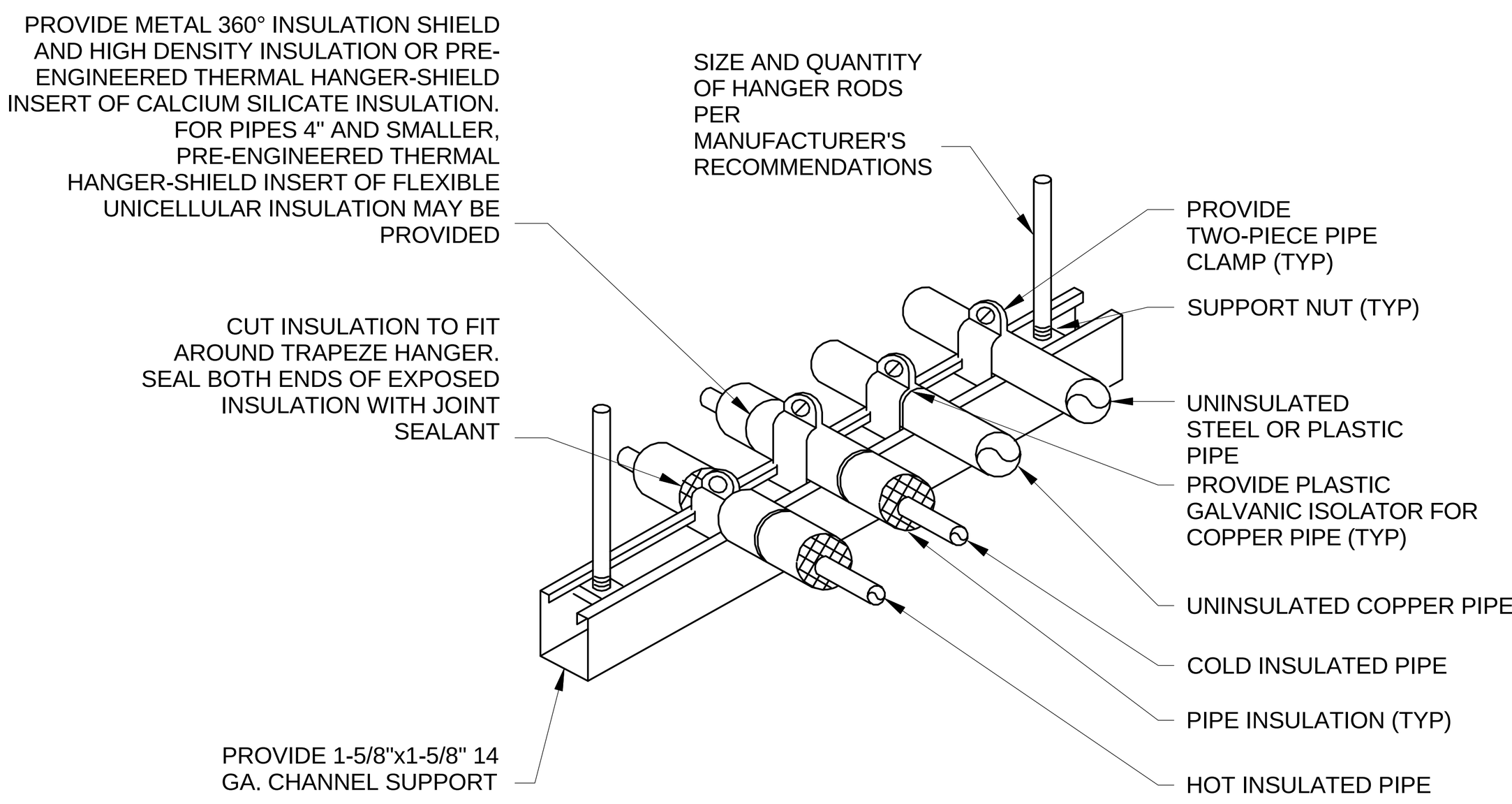
LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, TWENTY FIVE FEET FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND ONE FOOT FROM ANY VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

12 VENT THRU ROOF
NTS



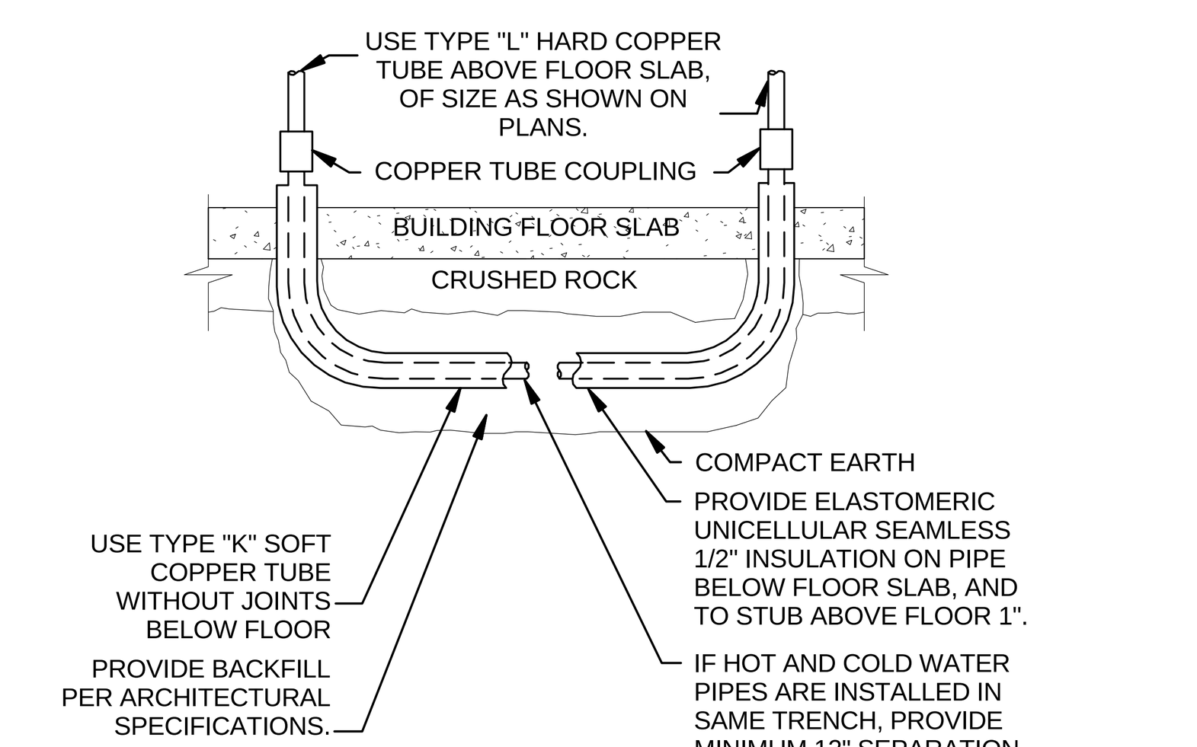
REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO SRUCTURE AND HANGER SPACING.

11 PIPE HANGER DETAIL
NTS



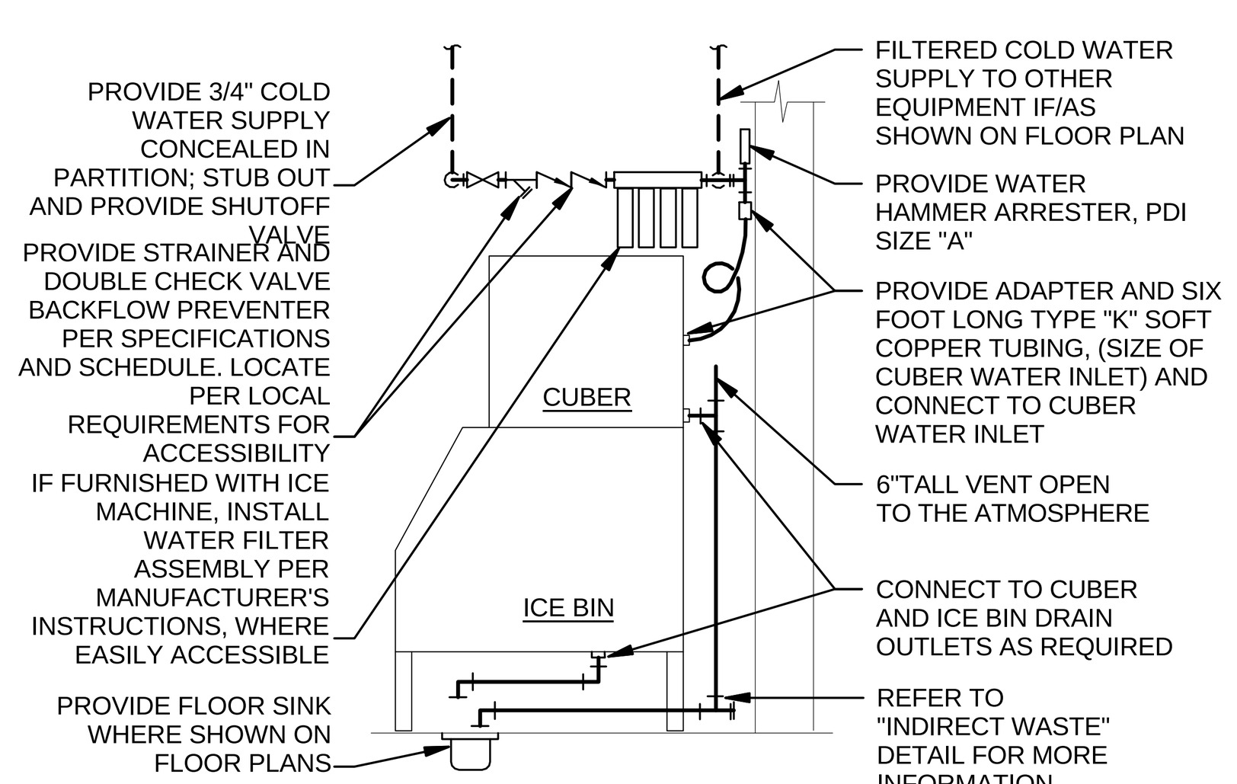
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. REFER TO SPECIFICATIONS FOR MORE INFORMATION. PIPE AND CONDUIT OF ALL TRADES MAY BE COMBINED ON THE SAME SUPPORT CHANNEL. COORDINATE SUPPORT CHANNEL LENGTH WITH PIPING AND CONDUIT TO BE SUPPORTED. SUPPORT CHANNEL SPACING SHALL BE DETERMINED BY SMALLEST PIPE TO BE SUPPORTED. CHANNEL SUPPORT MAY BE USED AS A WALL BRACKET, ATTACH TO WALL WITH ANCHOR BOLTS PER SPECIFICATIONS. FOR HORIZONTAL INSULATED PIPING, ATTACH CLAMPS AS INDICATED ABOVE, FOR VERTICAL INSULATED PIPING, ATTACH CLAMPS TO THE PIPE AND SEAL INSULATION AT BOTH CLAMP ENDS.

10 TRAPEZE PIPE HANGER
NTS



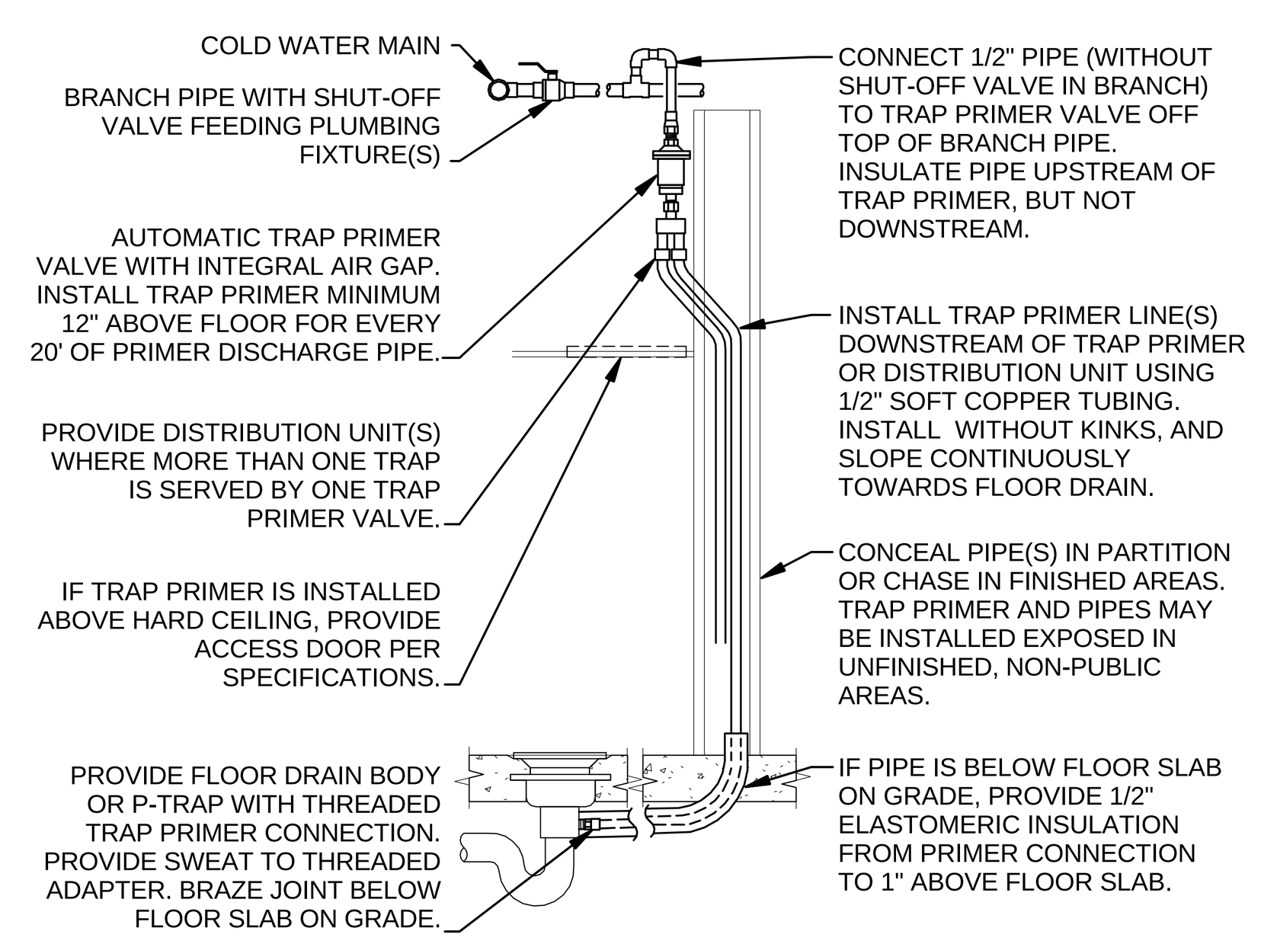
SAW CUT, EXCAVATE, BACKFILL, REPAIR VAPOR BARRIER, AND PATCH EXISTING FLOOR SLAB, IF REQUIRED. INSTALL CONTINUOUS PIECE OF SOFT COPPER TUBING WITH LONG RADIUS TURNS WITHOUT KINKS. INSTALL WROUGHT COPPER FITTINGS WITH BRAZED JOINTS WHEN CONTINUOUS RUN IS NOT POSSIBLE. DO NOT INSTALL FLARED COMPRESSION FITTINGS UNDER THE FLOOR SLAB. THERE SHALL BE NO CONTACT OF COPPER TUBE WITH OTHER PIPING, CONDUIT, REINFORCING STEEL, ROCK, OR BACKFILL.

9 WATER PIPE UNDER SLAB
NTS

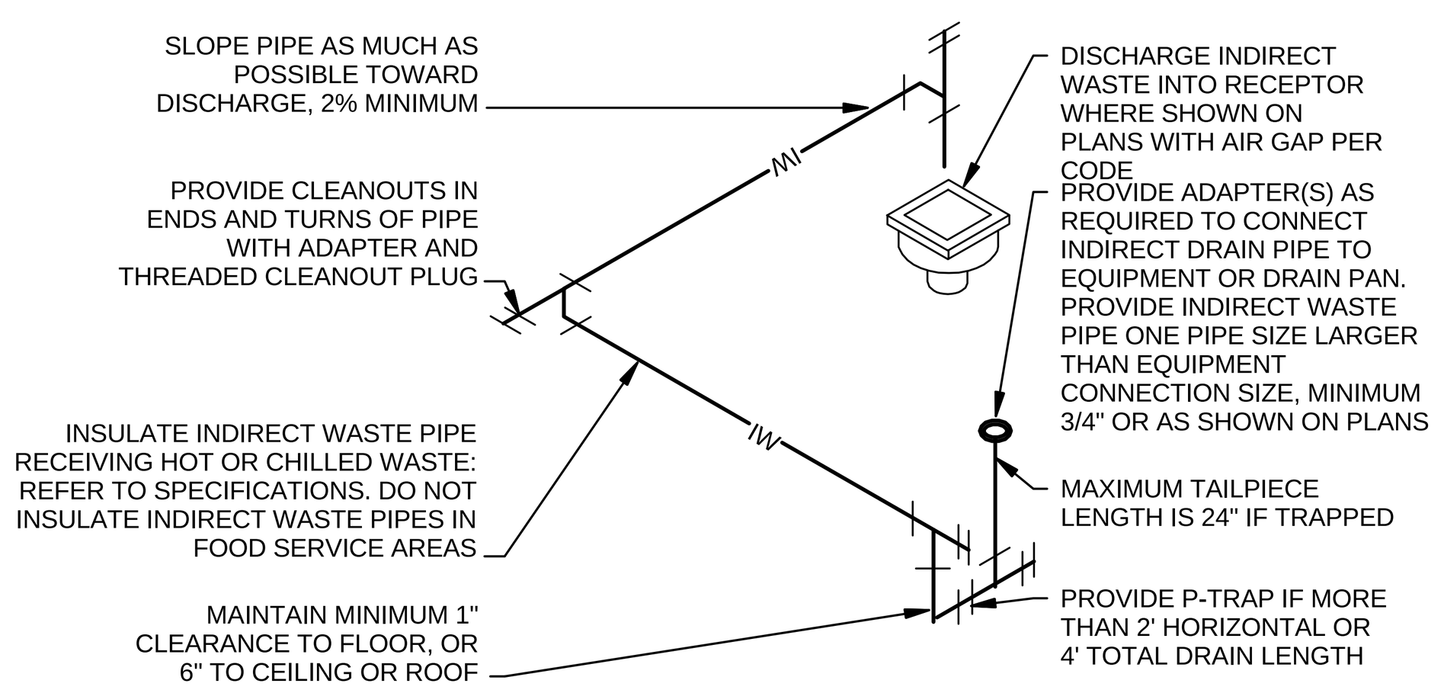


PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL INSTALLATION CONDITIONS AND MEET RECOMMENDATIONS OF EQUIPMENT MANUFACTURERS.

8 ICE MACHINE CONNECTIONS
NTS



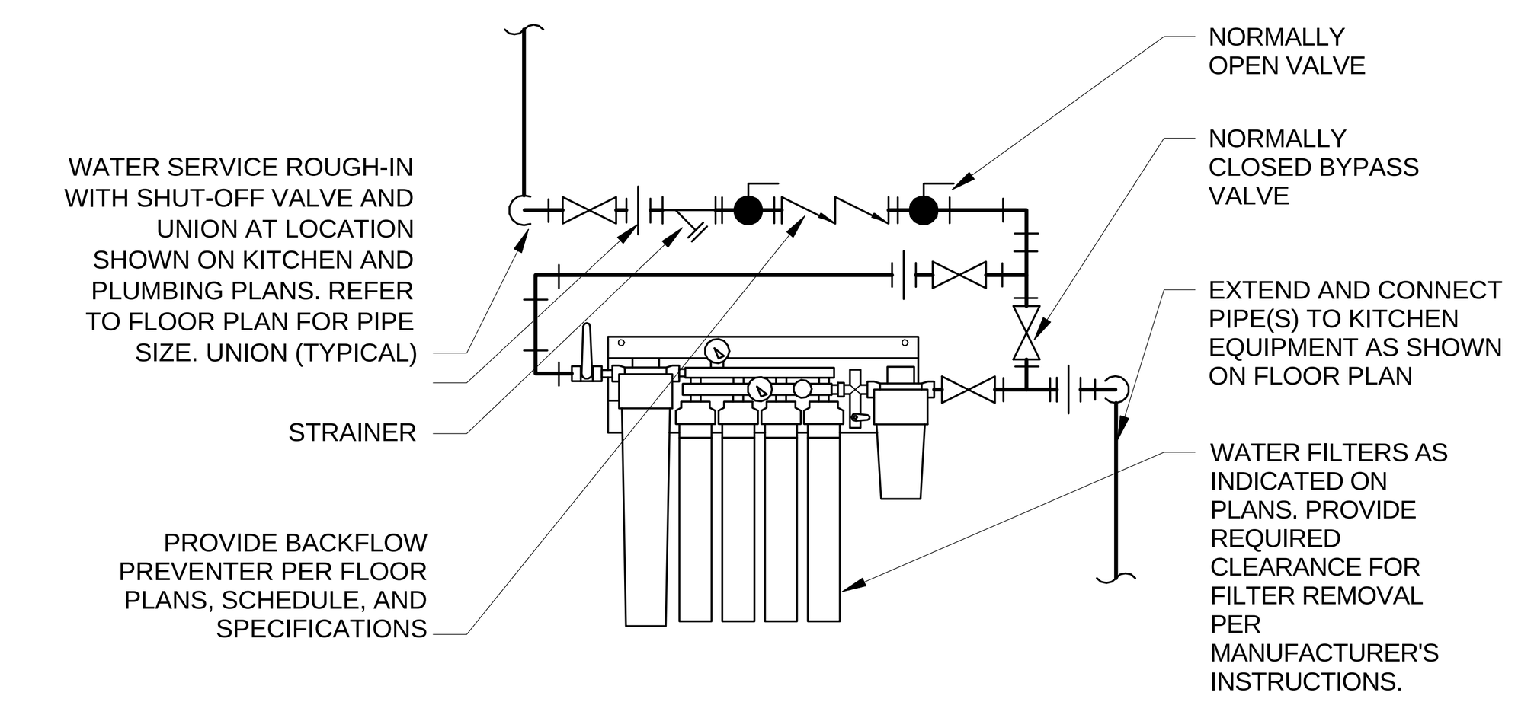
7 TRAP PRIMER OVERHEAD
NTS



ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS, AND INSTALLATION OF HANGERS AND SUPPORTS. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. DO NOT COMBINE INDIRECT DRAIN PIPES WITH CONDENSATE DRAIN PIPES. DO NOT PROVIDE TRAP OR VENT ON INDIRECT DRAINS RECEIVING DISCHARGE UNDER PRESSURE. PROVIDE CLEANOUT IN TRAP FOR NON-CLEAR LIQUID WASTE ONLY.

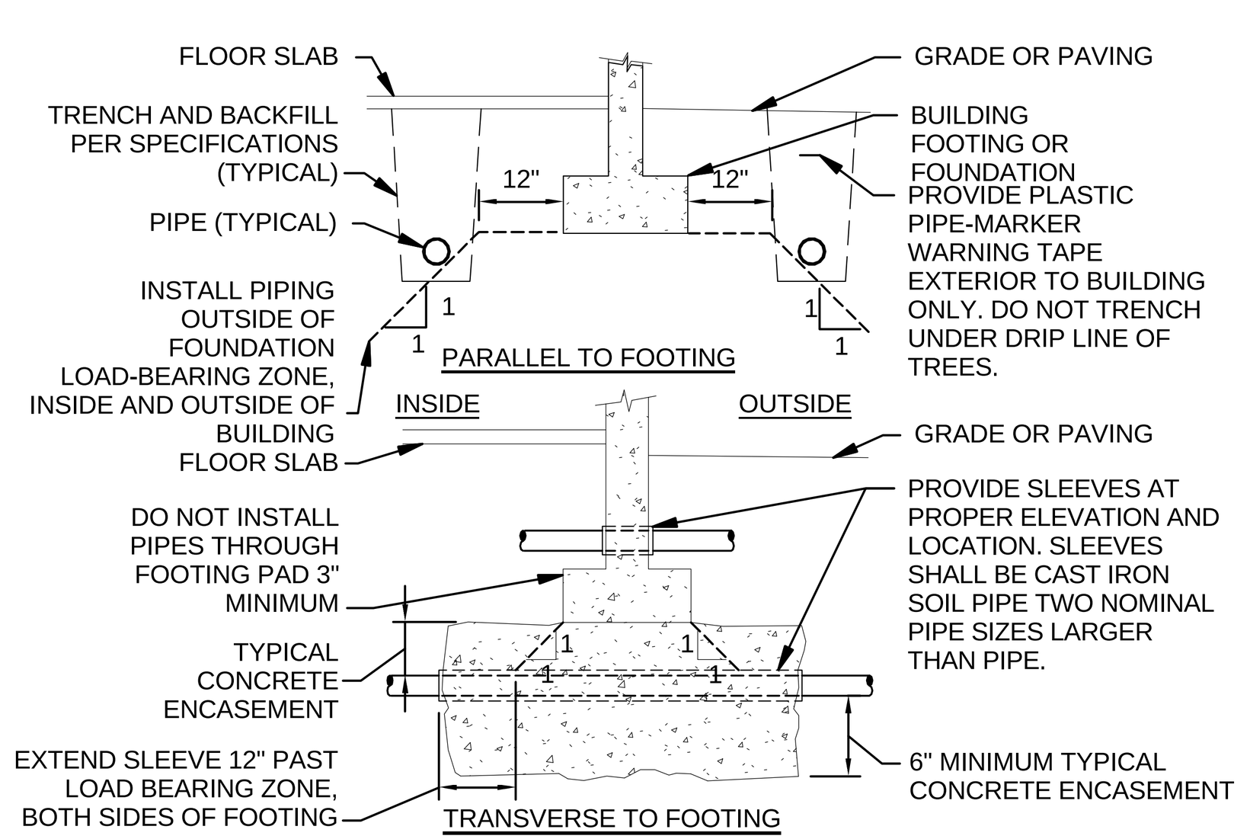
FOOD SERVICE EQUIPMENT INDIRECT WASTE: INSTALL SEPARATE INDIRECT WASTE FROM DIFFERENT EQUIPMENT - DO NOT COMBINE. SECURELY ATTACH INDIRECT DRAINS TO THEIR EQUIPMENT WITH BRACKETS OR SPLIT RING PIPE CLAMPS - REFER TO SPECIFICATIONS. LOOSE, DANGLING, OR PIPES ON THE FLOOR SHALL NOT BE ACCEPTED. INSTALL INDIRECT DRAINS HIGH AS POSSIBLE TO FACILITATE CLEANING UNDER KITCHEN EQUIPMENT.

6 INDIRECT WASTE INSTALLATION
NTS



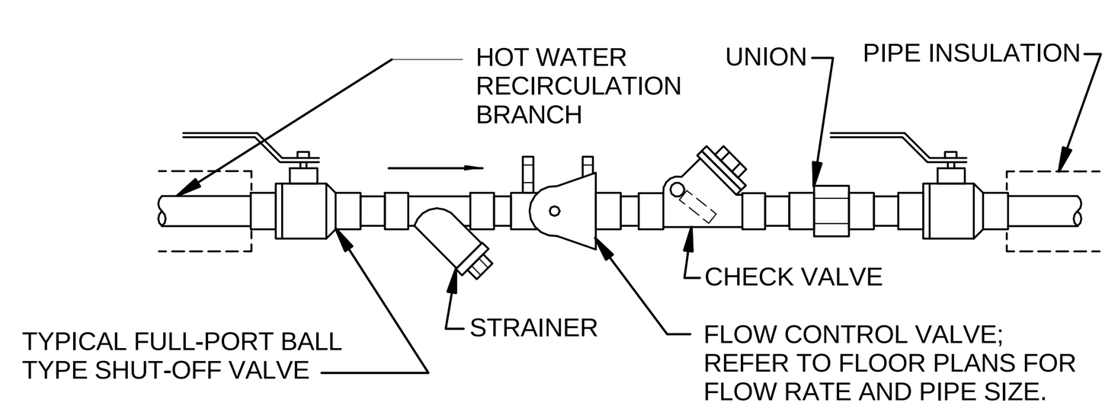
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PIPING CONCEALED IN WALL IS SHOWN DASHED. PIPING EXPOSED IS SHOWN CONTINUOUS. MOUNT FILTER ASSEMBLY ON WALL WHERE SHOWN ON KITCHEN DRAWINGS, WHERE EASILY ACCESSIBLE FOR SERVICING. INSTALL BACKFLOW PREVENTER, IF REQUIRED BY LOCAL AUTHORITIES, IN A TESTABLE AND SERVICEABLE LOCATION AS REQUIRED.

5 ICE MACHINE WATER FILTERS
NTS



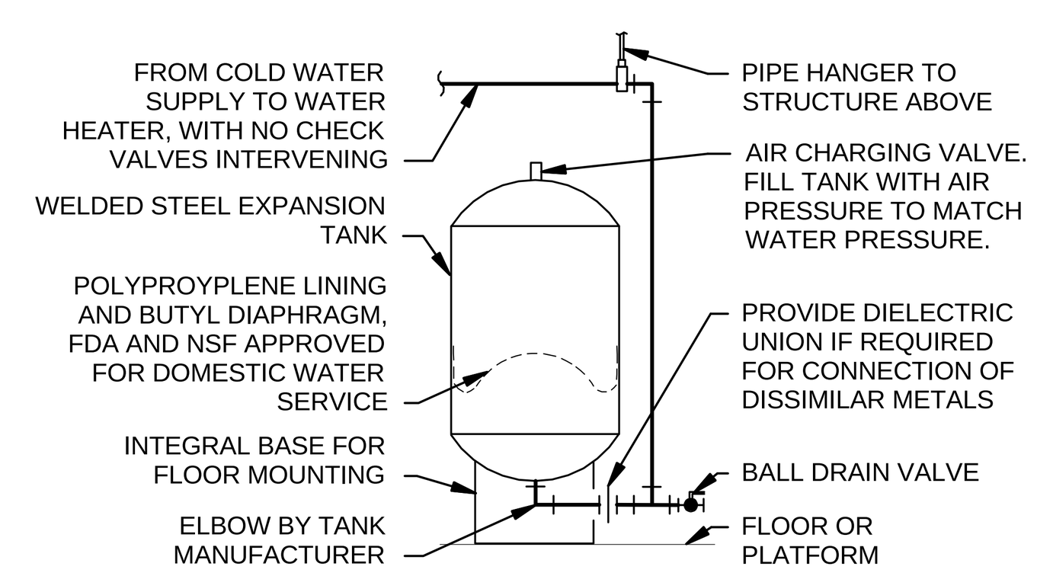
VERIFY EXCAVATION CONDITIONS (SOIL/ROCK) WITH GEOTECHNICAL REPORT AND/OR SITE INVESTIGATIONS. REFER TO SPECIFICATIONS FOR OTHER CONDITIONS. DO NOT INSTALL PIPES UNDER INTERIOR BUILDING SPREAD FOOTINGS OR PILE CAPS. COORDINATE WITH AFFECTED CONTRACTORS PRIOR TO THE START OF WORK.

4 PIPE AND TRENCH LOCATION
NTS



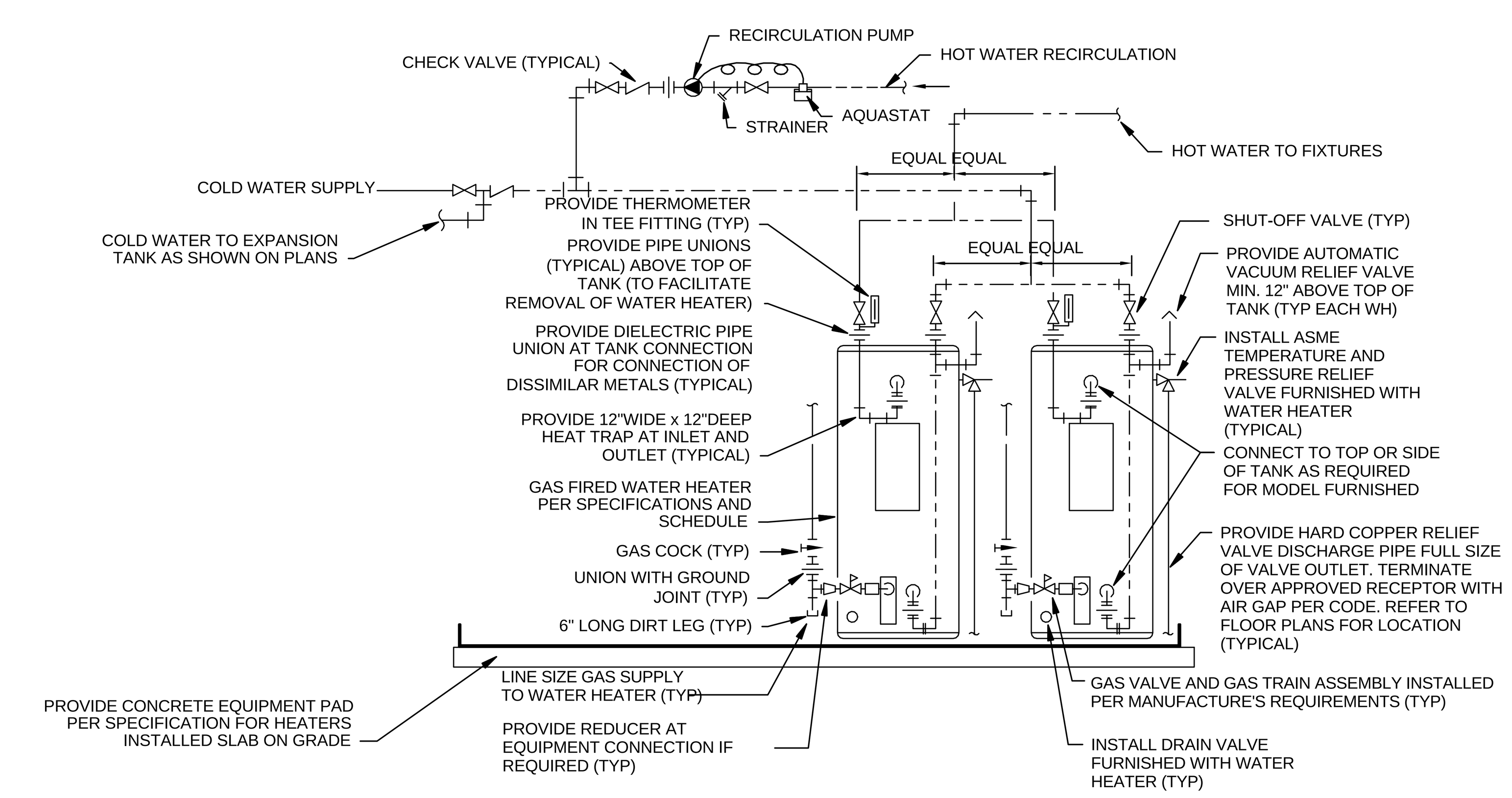
REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR MORE INFORMATION. MAKE CONNECTIONS AND PROVIDE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ARRANGEMENT SHOWN IS SCHEMATIC: PROVIDE REDUCERS AND ADAPTERS AS REQUIRED.

3 FLOW CONTROL VALVE
NTS



PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. MAKE PIPE SAME SIZE AS TANK FITTING. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED. PROVIDE SEISMIC STRAP OR BRACING WHEN REQUIRED BY LOCAL AUTHORITIES.

2 LARGE EXPANSION TANK
NTS



REFER TO SPECIFICATIONS, SCHEDULES, AND NOTES FOR MORE INFORMATION. PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. VERIFY CONNECTION SIZES AND LOCATIONS WITH WATER HEATER FURNISHED. REFER TO FLOOR PLANS FOR PIPE SIZES AND CONTINUATIONS. PROVIDE SEISMIC BRACE WHERE REQUIRED. POWER WIRING AND DISCONNECT SWITCH ARE SPECIFIED BY ELECTRICAL.INSTALL WATER HEATING AND WATER TREATMENT EQUIPMENT TO PROVIDE ACCESS FOR MAINTENANCE AND REPLACEMENT. REFER TO MECHANICAL PLANS FOR INTAKE AND EXHAUST VENTING OF WATER HEATER.

1 GAS FIRED WATER HEATERS
NTS

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brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

03/06/2018

Sheet Title
PLUMBING DETAILS

Sheet No.
P300

BRR Original printed on recycled paper

GENERAL ELECTRICAL NOTES:

NOTE: GENERAL NOTES SHOWN HERE APPLY TO ALL ELECTRICAL SHEETS. REFER TO INDIVIDUAL SHEETS FOR ADDITIONAL INFORMATION.

1. THE REQUIREMENTS AS SET FORTH UNDER GENERAL CONDITIONS, INSTRUCTIONS TO BIDDERS AND GENERAL REQUIREMENTS ARE A PART OF THE CONTRACT.
2. BIDS SHALL BE BASED ON A COMPLETE/FULL SET OF DRAWINGS.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. ALL REQUIREMENTS INCLUDING MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DRAWINGS AND SPECIFICATIONS ARE TO BE OBTAINED BY ELECTRICAL CONTRACTOR PRIOR TO AND INCLUDED IN BID PRICE. FAILURE TO VISIT THE SITE SHALL NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY IN THE PERFORMANCE OF THE ELECTRICAL WORK.
4. THE ELECTRICAL PLANS ARE DIAGRAMMATIC AND DO NOT SHOW EVERY ITEM IN EXACT LOCATION OR DETAIL. MEASURMENTS AND LOCATIONS MUST BE FIELD VERIFIED AND COORDINATED WITH ARCHITECTURAL, LANDLORD, ALL OTHER BUILDING TRADES AND EXISTING BUILDING CONDITIONS.
5. COORDINATE WITH ALL VENDOR PROVIDED DRAWINGS FOR CCTV, DATA/TELE, SOUND, SECURITY ETC. FOR ADDITIONAL WORK REQUIRED BY THE CONTRACTOR.
6. READ THE SPECIFICATIONS AND REVIEW DRAWINGS OF ALL DIVISIONS OF WORK. COORDINATE THIS WORK WITH ALL OTHER DIVISIONS OF WORK AND ALL SUBCONTRACTORS. PROVIDE ALL SUBCONTRACTORS WITH A COMPLETE SET OF BID DOCUMENTS.
7. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
8. COORDINATE ALL NEW WORK WITH LANDLORD AND PERFORM IN ACCORDANCE WITH LANDLORD REQUIREMENTS.
9. ALL CONDUCTOR LENGTHS PROVIDED IN THESE DESIGN DOCUMENTS ARE INTENDED SOLELY FOR USE IN THE DESIGN CALCULATIONS BY THE DESIGN PROFESSIONAL UNLESS SPECIFICALLY NOTED OTHERWISE IN THESE DOCUMENTS. THEY SHALL NOT BE USED BY CONTRACTORS IN BIDDING OR CONSTRUCTING THE PROJECT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MATERIAL QUANTITIES REQUIRED TO BID AND CONSTRUCT THE COMPLETE PROJECT.
10. ALL LOW VOLTAGE WIRING NOT INSTALLED IN CONDUIT SHALL BE PLENUM RATED.
11. PROVIDE PROPER FIRE PROOFING AND SEALANT FOR PENETRATIONS THROUGH FIRE RATED WALLS.
12. FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC. MAXIMUM LENGTH TO BE 6'-0". FLEXIBLE CONDUIT IS NOT PERMITTED WITHIN DEMISING WALLS. NO ROMEX, ARMORED CABLE, ETC. ALLOWED.
13. ROUTE ALL EXPOSED CONDUITS IN STRAIGHT LINES PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
14. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR WITH GREEN INSULATION IN ALL LINE-VOLTAGE CONDUITS. ALL EQUIPMENT, DEVICES AND FIXTURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
15. COORDINATE POWER CONNECTION LOCATIONS AND REQUIREMENTS TO EQUIPMENT WITH HVAC, PLUMBING, REFRIGERATION, AND FIRE PROTECTION CONTRACTOR AND ALL SHOP DRAWINGS.
16. PROVIDE AN UN-SWITCHED HOT CONDUCTOR TO ALL EXIT SIGNS AND EMERGENCY FIXTURE DESIGNATIONS.
17. FOR ALL HOMERUN SIZES AND RATINGS, REFER TO PANEL SCHEDULES.
18. ALL CONDUCTORS TO BE STRANDED COPPER. (#10 AND SMALLER SHALL BE SOLID) THHN/THWN INSULATION. MINIMUM WIRE SIZE TO BE #12.
19. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
20. ALL DEDICATED CIRCUITS (CIRCUITS SERVING A SINGLE DEVICE) SHALL HAVE A SEPARATE NEUTRAL AND GROUND WIRES.
21. PROVIDE 3/4" CONDUIT AND PULL STRING FROM EACH WALL MOUNTED TELEPHONE/DATA/TELEVISION AND OTHER LOW VOLTAGE OUTLETS UNLESS OTHERWISE NOTED. ROUTE TO 4" ABOVE SUSPENDED CEILINGS OR TO STRUCTURE.
22. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT. DIRECTORIES SHALL BE TYPED.
23. ALL NEW ELECTRTICAL PANELBOARDS AND TRANSFORMERS SHALL HAVE PERMANENT ENGRAVED LABELS ON COVER INDICATING DESIGNATION.
24. ALL CIRCUITS FEEDING ITEMS UNDER KITCHEN HOOD SHALL BE SHUNT-TRIP CONTROLLED BY HOOD FIRE SUPRESSION SYSTEM.
25. ELECTRICAL CONTRACTOR TO ENSURE PANELBOARD BRANCH CIRCUITS BETWEEN THE PHASES ARE PROPERLY BALANCECD AFTER ANY REVISION TO CIRCUITRY.
26 LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL VIA ALL THREAD AND UNI-STRUT AND NOT SUPPORTED BY CEILING SYSTEM.
27. THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE ARCHITECT/TENANT SHALL HAVE THE RIGHT TO RELOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.
28. ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN THE WORK AS THE JOB PROGRESSES AND TURN THIS "AS BUILT" INFORMATION OVER TO THE OWNER AT THE COMPLETION OF THE PROJECT.
29. ALL CONDUIT ABOVE GRADE SHALL BE STEEL.
30. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC. MINIMUM SIZE TO BE 1" UNLESS NOTED OTHERWISE.
31. ALL CONDUITS PENETRATING SLAB IN EXPOSED LOCATIONS SHALL BE RIGID STEEL.
32. USE OF MC CABLE IS ALLOWABLE AS PERMITTED BY THE PROJECT SPECIFICATIONS. INSTALLATION OF MC CABLE SHALL BE OF NEAT WORKMANSHIP AND SHALL RUN PARALLEL AND PERPENDICULAR TO BUILDING STRUCTURE.
33. LABEL ALL RECETPACLE COVERPLATES WITH PANEL # AND CIRCUIT # USING TYPED PRINTED STICK-ON TAPE.
34. LABEL ALL JUNCTION BOX COVERPLATES WITH PANEL # AND CIRCUIT #. USING TYPED PRINTED STICK ON TAPE.
35. ALL ELECTRICAL WORK SHALL BE LAID OUT WITH DUE CONSIDERATION FOR THE WORK OF OTHER TRADES. ANY CONFLICTS WHICH OCCUR DUE TO LACK OF COOPERATION OF THE ELECTRICAL CONTRACTOR WITH THE OTHER TRADES SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR WITH ABSOLUTELY NO EXPENSE TO THE OWNER.
36. LIGHTING FIXTURES AND LAMPS SHALL BE FURNISHED BY 365, RECEIVED AND INSTALLED BY CONTRACTOR AS SCHEDULED ON THE LIGHTING FIXTURE SCHEDULE.
37. ELECTRICAL CONTRACTOR SHALL PROVIDE TEMPORARY SERVICE AS REQUIRED TO FACILITATE APPLICABLE TEMPORARY NEEDS. ANY TEMPORARY WIRING, FUSES, ETC SHALL BE REMOVED UPON COMPLETION OF THE PROJECT. PROVIDE GROUND FAULT PROTECTION AS REQUIRED BY NEC AND LOCAL CODES.
38. ALL CONDUIT RUNS IN WALLS SHALL BE RAN VERTICALLY, MINIMUM SIZE IS 3/4".
39. ELECTRICAL CONTRACTOR SHALL PROTECT ALL FIXTURES/EQUIPMENT AGAINST DAMAGE FROM LEAKS, ABUSE, ETC., AND PAY COST OF REPAIR OR REPLACEMENT OF FIXTURES OR EQUIPMENT MADE NECESSARY BY FAILURE TO PROVIDE SUITABLE SAFEGUARDS OR PROTECTION.
40. ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL ELECTRICAL CONNECTIONS AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM. AFTER ALL EQUIPMENT HAS BEEN INSPECTED AND APPROVED. THOROUGHLY CLEAN ALL EQUIPMENT PROVIDED UNDER THIS WORK JUST PRIOR TO COMPLETION OF PROJECT.
41. THE ELECTRICAL CONTRACTOR, AS FAR AS THE WORK IS CONCERNED, SHALL AT ALL TIMES KEEP THE PREMISES IN A NEAT AND ORDERLY CONDITION AND AT THE COMPLETION OF THE WORK, SHALL PROPERLY CLEAN UP AND CART AWAY ANY DEBRIS AND EXCESS MATERIAL.
42. ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING, AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS CHANNELS, RODS, ETC. NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO BUILDING STEEL, CONCRETE OR MASONRY, BUT NOT PIPING OR DUCTWORK. ALL CONDUIT AND MC CABLES SHALL BE CONCEALED WHEREVER POSSIBLE. ROUTE CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUM SPACES TO BE OUT OF VIEW FROM SALES FLOOR SIGHT LINES. EXPOSED CONDUITS AND MC CABLES SHALL BE IN STRAIGHT LINES PARALLEL OR PERPENDICULAR TO COLUMN LINES OR BEAMS AND SEPARATED AT LEAST 3 INCHES FROM WATER LINES WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES. ALL CONDUCTORS SHALL BE IN CONDUIT OR OTHER CODE APPROVED RACEWAYS.
43. ALL 120V RECEPTACLES 50A OR LESS, 208V AND 240V RECEPTACLES 100A OR LESS, SHALL BE GFCI PROTECTED IN LOCATIONS REQUIRED BY CODE; THIS INCLUDES BATHROOMS, KITCHENS/FOOD PREP AREAS, EXTERIOR LOCATIONS AND RECEPTACLES WITHIN 6' OF A SINK. GFCI RECEPTACLES SHALL BE READILY ACCESSIBLE AND SHALL NOT BE LOCATED BEHIND STATIONARY EQUIPMENT. GFCI PROTECTION MAY BE VIA A GFCI CIRCUIT BREAKER OR GFCI RECEPTACLE, UNO. WHERE NECESSARY, GFCI PROTECTION MAY BE ACHIEVED VIA A BLANK FACE GFCI DEVICE LOCATED IN A READILY ACCESSIBLE LOCATION NEAR RECEPTACLE BEING PROTECTED. FOR DOWNSTREAM WIRING DEVICES LOCATED ON THE SAME BRANCH CIRCUIT, THE GFCI PROTECTION MAY BE PROVIDED FOR BY A SINGLE UPSTREAM DEVICE IF ALL PROTECTED DEVICES ARE LABELED PER CODE.
44. PROVIDE TAMPER-RESISTANT, (TR), TYPE RECEPTACLES AT ALL CODE REQUIRED LOCATIONS, INCLUDING THOSE ACCESSIBLE BY CHILDREN/CUSTOMERS/PUBLIC MOUNTED LESS THAN 5'-6" AFF, UNO.

ELECTRICAL SYMBOLS

v1.00

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

STANDARD MOUNTING HEIGHTS

UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS LISTED BELOW ARE ABOVE FINISHED FLOOR (AFF) OR ABOVE FINISHED GRADE (AFG) TO CENTER OF OUTLET BOX. ALL DEVICES SHALL BE INSTALLED IN COMPLIANCE WITH CURRENT ADA REQUIREMENTS.

ELECTRICAL	
CONTROLS (TOP OF DEVICE)	48"
EXIT SIGNS (WALL MOUNTED)	96"
INTERCOMS (TOP OF DEVICE)	48"
RECEPTACLES	18"
RECEPTACLES (EXTERIOR)	18"
RECEPTACLES (ABOVE COUNTER)	6" ABOVE COUNTER
RECEPTACLES (BELOW COUNTER)	8" BELOW COUNTER
REMOTE INDICATING LIGHT (FINISHED AREAS)	48"
SAFETY SWITCHES (TOP OF DEVICE)	48"
STARTERS (TOP OF DEVICE)	44"
SWITCHES	48"
TELEPHONE, DATA OUTLETS	18"
TELEPHONE TERMINAL BOARD (BOTTOM)	6"

POWER EQUIPMENT & DEVICES

ELECTRICAL SERVICE PANELBOARD (SURFACE OR FLUSH MOUNT)

TERMINAL CABINET (SURFACE OR FLUSH MOUNT), TYPE AS NOTED

PLYWOOD TERMINAL BOARD FOR TELEPHONE SYSTEM, UNO. SIZE AS NOTED.

ELECTRICAL DISTRIBUTION PANELBOARD

SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD

TRANSFORMER

MOTOR

200/3/150/3R DISCONNECT SWITCH - "200/3/150/3R" DENOTES AMPERES/POLE/FUSE/NEMA ENCL RATING NF= NON-FUSED, CB= CIRCUIT BREAKER (200/3/CB), NO VALUE (200/3/150) FOR NEMA ENCL RATING MEANS STANDARD NEMA 1 ENCL RATING.

30/3/15/1/3R COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER "30/3/15/1/3R" DENOTES AMPERES/POLE/FUSE/NEMA STARTER SIZE/NEMA ENCL RATING. NF= NON-FUSED, CB= CIRCUIT BREAKER (30/3/CB/1), NO VALUE (200/3/150/1) FOR NEMA ENCL RATING MEANS STANDARD NEMA 1 ENCL RATING.

☒ 2 MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED. 3-POLE, UNO.

$M MOTOR STARTING SWITCH

$FH FRACTIONAL HORSEPOWER MANUAL CONTROLLER

$IH INTEGRAL HORSEPOWER MANUAL CONTROLLER

VFD VARIABLE FREQUENCY DRIVE.

Ⓡ RELAY OR CONTACTOR (IN SCHEMATICS)

C MAGNETIC CONTACTOR, SIZE, COIL VOLTAGE AND NUMBER OF POLES AS INDICATED

TS TIME SWITCH

PC PHOTOCELL

INDICATING LIGHT

PUSH BUTTON

STOP-START PUSH BUTTON CONTROL STATION

HAND-OFF-AUTO PUSH BUTTON CONTROL STATION

MUSHROOM-TYPE PUSH BUTTON

OVERHEAD PADDLE FAN

SIGNALING

B SIGNALING BELL

B SIGNALING BUZZER

T LV TRANSFORMER

ANNOTATION

1 MECHANICAL OR FIRE PROTECTION PLAN CALLOUT

① PLUMBING PLAN NOTE CALLOUT

1 ELECTRICAL PLAN NOTE CALLOUT

1 TECHNOLOGY PLAN CALLOUT

1 PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES

1 EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)

CU 1 MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)

CONNECTION POINT OF NEW WORK TO EXISTING

1 M1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER

1 M1 SECTION CUT DESIGNATION

ELECTRICAL ONE-LINE & RISER

800A 3P SWITCH RATING AS SHOWN

400A 3P DRAWOUT CIRCUIT BREAKER. RATINGS AS SHOWN

200AS 3P 200AF FRS FUSED SWITCH RATING,POLES AND FUSE TYPE AS SHOWN

200AS 3P 200AF FRS NEMA 1 COMBINATION FUSED SWITCH/STARTER AND STARTER SIZE

225A 3P CIRCUIT BREAKER RATINGS AS SHOWN

225A 3P NEMA 1 COMBINATION CIRCUIT BREAKER/STARTER AND STARTER SIZE

PANELBOARD (SEE SCHEDULES)

MULTI-SECTION PANELBOARD (SEE SCHEDULES)

PANELBOARD W/ INTEGRAL TRANSFORMER (SEE SCHEDULES)

TX# TRANSFORMER TYPE AND RATINGS AS SHOWN

TX# SHIELDED TRANSFORMER TYPE AND RATINGS AS SHOWN

ATS# 200A 3P AUTOMATIC TRANSFER SWITCH. RATINGS AS SHOWN

ATS# (W/BYPASS) AUTOMATIC TRANSFER SWITCH WITH BYPASS. RATINGS AS SHOWN 200A, 3P

500KW GENERATOR 480Y/277V, 3Ø, 4W ???A M/G GENERATOR, SEPARATELY DERIVED SOURCE RATINGS AS SHOWN

500KW GENERATOR 480Y/277V, 3Ø, 4W ???A M/G GENERATOR, NON-SEPARATELY DERIVED SOURCE, RATINGS AS SHOWN

MDP SWITCHBOARD ELEC ROOM ??? AMPS 480Y/277V, 3Ø, 4W SWITCHGEAR, SWITCHBOARD AND/OR DISTRIBUTION PANELBOARD. TYPE, RATING, DEVICES AND ACCESSORIES AS SHOWN.

DIGITAL VM AM COMBINATION DIGITAL VOLT METER/AMMETER

\### CIRCUIT IDENTIFICATION - SEE CIRCUIT SCHEDULE

GFR GROUND FAULT RELAY

PFR PHASE FAULT RELAY

KK3 KIRK-KEY INTERLOCK

ST SHUNT TRIP

AM AMMETER, RANGE AS SPECIFIED OR REQUIRED

VM VOLTMETER, RANGE AS SPECIFIED OR REQUIRED

UTILITY METER Ⓜ UTILITY METER (AS REQUIRED BY UTILITY)

AS AMMETER SWITCH

VS VOLTMETER SWITCH

WH D 15 WATT-HOUR METER, "D" DENOTES DEMAND REGISTER, "15" DENOTES MINUTES OF DEMAND INTERVAL

CURRENT TRANSFORMER RATING AS SPECIFIED OR REQUIRED

POTENTIAL TRANSFORMER RATING AS SPECIFIED OR REQUIRED

TVSS TRANSIENT VOLTAGE SURGE SUPPRESSOR

GROUND CONNECTION

GROUND CONNECTION WITH TEST WELL

GROUND ROD

LIGHTNING ARRESTER

CAPACITOR

CONTACT (OPEN OR CLOSED)

HEATER

HP MOTOR

\## BLOCK LOAD KW OR KVA

F# FAULT POINT REFERENCED IN SHORT CIRCUIT CURRENT AND VOLTAGE DROP SPREADSHEET.

LIGHTING

A a LIGHT FIXTURE

SEE LIGHT FIXTURE SCHEDULE

a = SWITCHED BY SWITCH "a"
A = LIGHT FIXTURE TYPE "A"
NL = NIGHT LIGHT
⊥ = WALL MOUNT
〉 = ARROW INDICATES AIMING DIRECTION

LIGHT FIXTURE WITH NIGHT LIGHT

EMERGENCY LIGHT FIXTURE WITH EMERGENCY LIGHTING BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE

NIGHT LIGHT/EMERGENCY LIGHT FIXTURE WITH EMERGENCY BATTERY PACK OR CONNECTED TO EMERGENCY SOURCE

LIGHT FIXTURE WITH DUAL BALLASTS CIRCUITED SEPARATELY. (SHADING IMPLIES EMERGENCY LIGHT FIXTURE)

LIGHTING TRACK WITH LIGHT FIXTURE TYPES AS INDICATED

MIRROR LIGHTS

SITE LIGHTING FIXTURE

EXIT SIGN - CEILING / WALL MOUNTED, ARROWS AS INDICATED.

EMERGENCY BATTERY PACK LIGHT FIXTURE - CEILING/WALL MOUNTED

AFEA (AREA FOR EVACUATION ASSISTANCE) SIGN - CEILING/WALL MOUNTED, ARROWS AS INDICATED.

CIRCUITING & WIRING

REFER TO BRANCH CIRCUIT CONDUCTOR TABLE FOR REQUIRED QUANTITIES OF CONDUCTORS IN BRANCH CIRCUITRY. REFER TO ALL PLANS, NOTES, WIRING AND CONTROL DIAGRAMS FOR ADDITIONAL CIRCUITING REQUIREMENTS.

7,5,3 P1 OR P1-3,5,7 HOMERUN TO PANELBOARD. INFORMATION AT ARROWS ARE CIRCUIT NUMBERS AND PANELBOARD FOR TERMINATION. REFER TO PANELBOARD SCHEDULES FOR BRANCH CIRCUIT CONDUCTOR SIZES.

WHERE TICK MARKS ARE SHOWN, THE FOLLOWING SHALL GOVERN:

SWITCHED HOT (PHASE) CONDUCTORS (SHOWN TRAILING NEUTRAL)
NEUTRAL (GROUNDED) CONDUCTOR
UNSWITCHED HOT (PHASE) CONDUCTORS (SHOWN LEADING NEUTRAL)

HASH MARKS INDICATE QUANTITY OF CONDUCTORS.

EQUIPMENT GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION OR BARE)

ISOLATED GROUNDING CONDUCTOR IN CONDUIT (GREEN INSULATION WITH YELLOW TRACER)

CONDUIT CONCEALED

CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION

EXPOSED CONDUIT

FLEXIBLE CONDUIT

LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)

CONDUIT TURNING DOWN

CONDUIT TURNING UP

CONNECTION POINT OR EQUIPMENT TERMINATION

EQUIPMENT TERMINATION

BRANCH CIRCUIT CONDUCTOR TABLE

	HOT (PHASE)*	NEUTRAL (GROUNDED)**	GROUNDING***
1P	(1)	(1)U.N.O.	(1)
2P	(2)	(1)U.N.O.	(1)
3P	(3)	(1)U.N.O.	(1)

* PROVIDE ADDITIONAL CONDUCTORS THROUGH ENTIRE CIRCUIT (SWITCHED, UNSWITCHED/EM, ETC.) AS INDICATED THROUGHOUT CONSTRUCTION DOCUMENTS AND AS REQUIRED FOR A COMPLETE AND WORKING SYSTEM.
** REFER TO SPECIFICATIONS FOR LIMITATIONS ON SHARING NEUTRAL (GROUNDED) CONDUCTORS.
*** PROVIDE ADDITIONAL ISOLATED GROUNDING CONDUCTORS WHERE INDICATED.

BOXES, LIGHTING CONTROL AND WIRING DEVICES

$ SINGLE POLE WALL SWITCH (NO LETTER DESIGNATION)

$2 SWITCH LETTER DESIGNATIONS AS FOLLOWS:
2 = TWO POLE
3 = THREE-WAY
4 = FOUR-WAY
D = DIMMER
F = FAN SPEED CONTROL
K = KEYED
P = SPST PILOT LIGHT
WP = WEATHER PROOF

ALC AUTOMATIC LOAD CONTROL RELAY

BTS BRANCH CIRCUIT TRANSFER SWITCH

REFER TO LIGHTING CONTROL DEVICE SCHEDULE FOR ADDITIONAL DEVICE SYMBOLS AND DEFINITIONS SPECIFIC TO THIS PROJECT

SIMPLEX RECEPTACLE - NEMA 5-20R, UNO

DUPLEX RECEPTACLE - NEMA 5-20R, UNO

DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R, UNO

SPECIAL RECEPTACLE - NEMA TYPE AS NOTED

TWIST-LOCK TYPE RECEPTACLE

OR GFCI GFCI TYPE RECEPTACLE*

ISOLATED GROUND TYPE RECEPTACLE*

OR EM EMERGENCY RECEPTACLE*

RECEPTACLE INSTALLED ABOVE COUNTER OR BACKSPLASH*

RECEPTACLE INSTALLED IN CEILING*

RECEPTACLE INSTALLED IN FLOOR*

RECEPTACLE INSTALLED VIA DROP CORD*

WR/WP RECEPTACLE LETTER DESIGNATIONS AS FOLLOWS:
C = CONTROLLED
CH = CLOCK HANGER TYPE
D = DEMOLISHED
E/EX = EXISTING
EM = EMERGENCY POWER
H = HORIZONTALLY MOUNTED
IG = ISOLATED GROUND
R = RELOCATED
S = SWITCHED
TR = TAMPER RESISTANT
TV = TELEVISION
USB = USB/DUPLEX
WP = WEATHER PROOF COVER
WR = WEATHER RESISTANT

MULTI-OUTLET ASSEMBLY

FLOOR WALL

TELEPHONE OUTLET

DATA OUTLET

MULTI-SERVICE OUTLET; TELEPHONE AND DATA

ABOVE COUNTER

TELEPHONE OUTLET

DATA OUTLET

MULTI-SERVICE OUTLET; TELEPHONE AND DATA

A MULTI-SERVICE POWER POLE WITH TELEPHONE, DATA AND POWER OUTLETS A = TYPE, SEE PLANS, SCHEDULES OR SPECIFICATIONS

A MULTI-SERVICE FLOOR BOX WITH TELEPHONE, DATA AND POWEROUTLETS A = TYPE, SEE PLANS, SCHEDULES OR SPECIFICATIONS

A POKE THROUGH, A = TYPE, SEE PLANS, SCHEDULES OR SPECIFICATIONS

Ⓣ THERMOSTAT

J Ⓙ JUNCTION BOX/OUTLET BOX

G BLANK FACE GFCI FEED THROUGH DEVICE

*SYMBOL DEMONSTRATED WITH DUPLEX RECEPTACLE, WHEN USED IN COMBINATION WITH OTHER DEVICES MEANING IS SIMILAR FOR THOSE DEVICE TYPES.

ABBREVIATIONS

(ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS.)

A	
A	AMPERES
A	AIR (COMPRESSED)
A/C	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED CONDENSING UNIT
ADA	ADA AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
AO	ANALOG OUTPUT
AP	ACCESS PANEL
AP	ACCESS POINT
ATL	ACROSS-THE-LINE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
B	
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	BACKBONE
BD	BACKDRAFT DAMPER
BD	BLOWDOWN
BD	BUILDING DISTRIBUTOR
BD	BOARD
BDF	BUILDING DISTRIBUTION FRAME
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BOILER FEED PUMP
BI	BINARY INPUT
BKR	BREAKER
BO	BINARY OUTPUT
BO	BOTTOM OF
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BOS	BOTTOM OF STEEL/STUD
BTU	BRITISH THERMAL UNIT
C	
C	CONDUIT
CAT	CATEGORY
CATV	CABLE TELEVISION SYSTEM
CD	CANDELA
CD	CAMPUS DISTRIBUTOR
CT	CURRENT TRANSFORMER
CCTV	CLOSED CIRCUIT TELEVISION
CH	CHILLER
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
CP	CONDENSATE PUMP
CPT	CONTROL POWER TRANSFORMER
CPVC	CHLORINATED POLYVINYL CHLORIDE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CWP	COOLING TOWER PUMP
CU	COPPER
CU	CONDENSING UNIT
CVD	CUMULATIVE VOLTAGE DROP
CHP	CHILLED WATER PUMP
D	
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNIT
DI	DIGITAL INPUT
DI	DUCTILE IRON
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPI	DIFFERENTIAL PRESSURE INDICATOR
DPST	DOUBLE-POLE, SINGLE-THROW
DS	DOWNSPOUT
DS	DUCT SILENCER
DX	DIRECT EXPANSION
E	
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EIA	ELECTRONIC INDUSTRIES ASSOCATIONS
EL	ELECTRIFIED LOCK OR LATCH
EL	ELEVATION
EM	EMERGENCY
EMI	ELECTROMAGNETIC INTEFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ER	EQUIPMENT ROOM
ESFR	EARLY SUPPRESSION FAST RESPONSE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS/OWNER
FCA	FAULT CURRENT AMPS
FCU	FAN COIL UNIT
FD	FLOOR DISTRIBUTOR
FD	FLOOR DRAIN
FFA	FROM FLOOR ABOVE
FEB	FROM FLOOR BELOW
FF	FINISHED FLOOR
FHC	FIRE HOSE CABINET
FL	FLOW LINE
FLA	FULL LOAD AMPS
FLR	FLOOR
FU	FURNACE
FVNR	FULL-VOLTAGE, NON-REVERSING
G	
GC	GENERAL CONTRACTOR
GE	GROUNDING EQUALIZER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
G	GROUND
GND	GROUND
GPM	GALLONS PER MINUTE
GRS	GALVANIZED RIGID STEEL
GYPBD	GYPSUM BOARD
H	
HC	HORIZONTAL CROSS-CONNECT
HD	HEAD
HD	HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HTG	HEATING
HTR	HEATER
HVU	HEATING AND VENTILATING UNIT
HWP	HEATING WATER PUMP
HZ	HERTZ
I	
IC	INTERMEDIATE CROSS-CONNECT
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN WC	INCHES OF WATER COLUMN
IP	INTERNET PROTOCOL
ISC	SHORT CIRCUIT CURRENT
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
ISP	INTERNET SERVICE PROVIDER
ISP	INSIDE PLANT CABLE
J	
JB	JUNCTION BOX
J-BOX	JUNCTION BOX
K	
kcmil	1000 CIRCULAR MILS
KK	KIRK KEY
kV	KILOVOLT
kVA	KILOVOLT-AMPS
kVAR	KILOVOLT-AMPS REACTIVE
kW	KILOWATT
kWH	KILOWATT-HOUR
L	
L	LENGTH
LO	LOUVER
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LCC	LIMITED COMBUSTIBLE CABLE
LDB	LEAVING DRY BULB
LEC	LOCAL EXCHANGE CARRIER
LED	LIGHT-EMITTING DIODE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
M	
M-M	MULTIMODE
MAN	METROPOLITAN AREA NETWORK
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MAIN CROSS-CONNECT NETWORK
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDF	MAIN DISTRIBUTION FRAME
MDF	MEDIUM DENSITY FIBERBOARD
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MAINTENANCE HOLE
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPOE	MAIN POINT OF ENTRANCE
MPOP	MAIN POINT OF PRESENCE
MSB	MAIN SWITCHBOARD
MSWB	MAIN SWITCHBOARD
MS/TP	MASTER SLAVE/TOKEN PASSING - COMMUNICATION TRUNK
MTD	MOUNTED
MU	MAKE-UP
N	
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION, INC.
NIC	IN CONTRACT
NL	NIGHT LIGHT
NM	METER
O	
OA	OUTSIDE AIR
OC	ON CENTER
ORD	OVERFLOW ROOF DRAIN
OS	OCCUPANCY SENSOR
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSP	OUTSIDE PLANT
P	
P	POLE
PBX	PRIVATE BRANCH EXHANGE RETURN
PCR	PUMPED CONDENSATE
PDI	PLUMBING DRAINAGE INSTITUTE
PDU	POWER DISTRIBUTION UNIT
PH	PHASE
Ø	PHASE
PIV	POST INDICATOR VALVE
PNL	PANEL
PNLBD	PANELBOARD
POE	POWER OVER ETHERNET
POTS	STANDARD ANALOG TELEPHONE LINE
POTS	PLAIN OLD TELEPHONE SERVICE
PROVIDE	FURNISH AND INSTALL
PRV	PRESSURE REDUCING VALVE
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PT	POTENTIAL TRANSFORMER
PT	PRESSURE THREAD
PTP	POINT-TO-POINT
PTZ	PAN, TILT, ZOOM
PVC	POLYVINYL CHLORIDE
Q	
QTY	QUANTITY
R	
RA	RETURN AIR
RC	ROOM CRITERIA
RCP	REINFORCED CONCRETE PIPE
RCPT	RECEPTACLE
RD	ROOF DRAIN
RD	RETURN DUCT
REV	REVISION
REV	REVERSE
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RH	ROOF HOOD
RHG	REFRIGERANT HOT GAS
RLA	RUNNING LOAD AMPS
RMC	RIGID METAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RU	RACK UNIT
S	
SA	SUPPLY AIR
SATV	SYNCHRONOUS OPTICAL NETWORK
SCP	STEAM CONDENSATE PUMP
SD	SMOKE DUCT DETECTOR
SD	SUPPLY DUCT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SF	SUPPLY FAN
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SP	STATIC PRESSURE
SP	SUMP PUMP
SP	SPACES
SS	STAINLESS STEEL
SS	SANITARY SEWER
SS	SOIL STACK
ST	SHUNT TRIP
ST	STEAM TRAP
STC	SOUND TRANSMISSION CLASS
STM	STEAM
SWBD	SWITCHBOARD
T	
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBD	TO BE DETERMINED
TC/C	TEMPERATURE CONTROLS CONTRACTOR
TDH	TOTAL DYNAMIC HEAD
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TGB	TELECOMMUNICATIONS GROUND BUS BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TL	TWISTLOCK
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
TR	TAMPER RESISTANT
TR	TELECOMMUNICATIONS ROOM
TT	TEMPERATURE TRANSMITTER
TWU	THROUGH WALL AIR CONDITIONING UNIT
TX	TRANSFORMER
TYP	TYPICAL
U	
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	
V	VOLT(S)
VAC	VOLTS ALTERNATING CURRENT
VD	VOLTAGE DROP
VDC	VOLTS DIRECT CURRENT
VAV	VARIABLE AIR VOLUME
VCP	VITRIFIED CLAY PIPE
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	
W	WIREWIRE
W	WIDTH
W/	WITH
W/O	WITHOUT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GONG
WPD	WATER PRESSURE DROP
WP	WEATHER PROOF COVER
WR	WEATHER RESISTANT
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT
WT	WEIGHT
X	
XP	EXPLOSION-PROOF

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

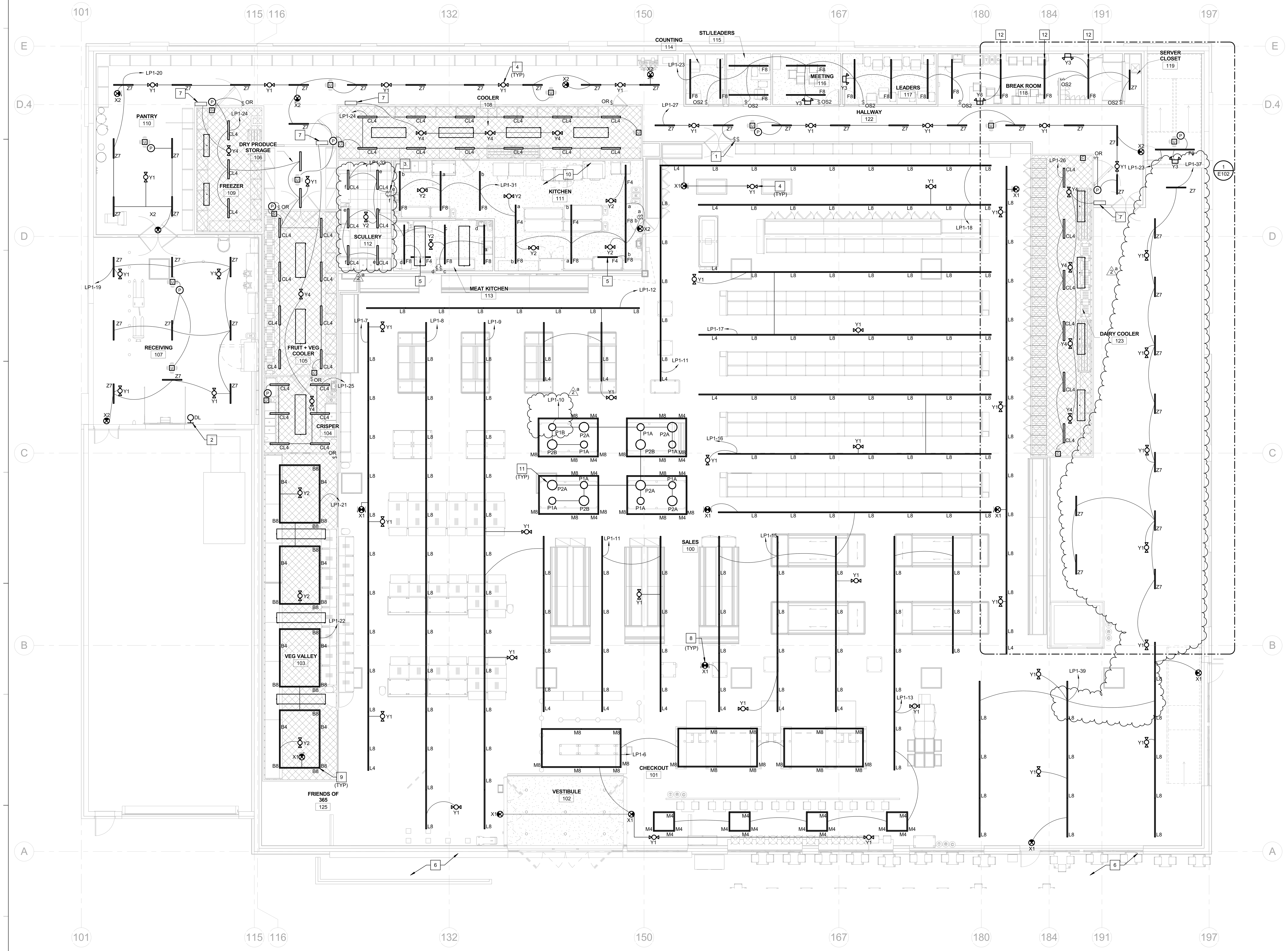
Project No. 62911019

Professional Seal

03/06/2018

Sheet Title
ELECTRICAL SYMBOLS & NOTES

Sheet No.
E000



1 ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

GENERAL LIGHTING NOTES:

1. DRAWINGS AND SPECIFICATIONS GOVERN, WHERE THEY EXCEED CODE REQUIREMENTS.
2. VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL LIGHTING EQUIPMENT BEFORE PROVIDING ROUGH-IN.
3. PROVIDE EQUIPMENT GROUNDING CONDUCTOR PER NEC 250.122 IN ALL RACEWAYS.
4. TYPE MC CABLE MAY BE USED WITHIN PARTITION WALLS FOR BRANCH CIRCUIT DROPS TO FIXTURES. USE CONDUIT AND WIRE FOR ALL BRANCH CIRCUIT HOMERUNS. MC CABLE SHALL NOT BE RUN IN CEILING SPACE IN LENGTHS EXCEEDING SIX FEET.
5. PROVIDE ALL MOUNTING AND SUPPORT HARDWARE FOR LIGHT FIXTURES TO MEET SPECIFIED MOUNTING HEIGHTS.
6. ALL JUNCTION BOXES SHALL BE RIGIDLY ATTACHED TO STRUCTURE OR MILLWORK.
7. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E110 FOR INFORMATION ON LIGHT FIXTURE TYPES AND RESPONSIBILITIES.
8. REFER TO LIGHTING CONTROL DEVICE SCHEDULE ON SHEET E110 FOR OCCUPANCY SENSOR TYPE AND CONTROL INFORMATION.
9. ROUTE ALL EXPOSED, RIGID CONDUIT TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES WHERE POSSIBLE. COORDINATE CONDUIT ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT COORDINATION AND CONFLICT ISSUES BE RESOLVED BY 365 CONSTRUCTION MANAGER PRIOR TO INSTALLATION OF LIGHT FIXTURES. CONTRACTOR SHALL BE HELD FINANCIALLY RESPONSIBLE FOR ANY CONFLICTS WITH LIGHTING POSITIONS AS INDICATED ON THIS SHEET AND WITH ANY OTHER TRADES.
11. ALL INTERIOR LIGHTING FIXTURES AND LAMPS SHALL BE PROVIDED BY 365.THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING, INSPECTING, STORING AND INSTALLING ALL LIGHTING FIXTURES. THE CONTRACTOR SHALL CONTACT 365 IF ANY FIXTURES ARE DAMAGED BEFORE INSTALLATION.
12. PROVIDE A MINIMUM OF 1'-0" SLACK CONDUCTORS AT EACH JUNCTION BOX CONNECTING POWER TO LIGHT FIXTURES.
13. THROUGH WIRING OF RECESSED LIGHT FIXTURES, IN SUSPENDED CEILINGS, IS NOT PERMITTED. CONNECT EACH LIGHT FIXTURE BY A WHIP TO A JUNCTION BOX. PROVIDE CABLE WHIPS OF SUFFICIENT LENGTHS TO ALLOW FOR RELOCATING EACH LIGHT FIXTURE WITHIN A 5-FOOT RADIUS OF ITS INSTALLED LOCATION, BUT NOT EXCEEDING 6 FEET IN UNSUPPORTED LENGTH.
14. ALL LIGHT FIXTURES OVER OPEN FOOD AREAS, COFFIN CASES AND FOOD PREP AREAS SHALL BE PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. CONTRACTOR SHALL VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER STORE SETUP IS COMPLETED.
15. WALL MOUNTED EXIT SIGNS SHALL BE MOUNTED 12" ABOVE DOOR FRAME WHEREVER PRACTICAL. CEILING/PENDANT MOUNTED EXIT SIGNS SHALL BE SUSPENDED TO 12'-6" ON SALES FLOOR IN AREAS OPEN TO STRUCTURE, AT BOTTOM OF BAR JOISTS IN BACKROOM AREAS AND ON FINISHED CEILING IN PREP AREAS, UNLESS NOTED OTHERWISE. DO NOT DIRECTLY MOUNT FIXTURES TO ANY SOFFITS.
16. LIGHTING UNDERNEATH THE EXHAUST HOODS IS BY HOOD SUPPLIER. COORDINATE ELECTRICAL REQUIREMENTS WITH THE EXHAUST HOOD SUPPLIER AND MECHANICAL CONTRACTOR.
17. COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN.
18. COORDINATE ALL FIXTURE MOUNTING HEIGHTS WITH LIGHT FIXTURE SCHEDULE.
19. ALIGN ROWS OF LIGHTS ON SALES FLOOR TO AVOID CONFLICTS WITH STRUCTURAL BRIDGING AND DUCTWORK TO MAINTAIN CONTINUITY AND ALIGNMENT OF ENTIRE ROW WHEREVER PRACTICAL. ALL LIGHTING SHALL BE INSTALLED IN A STRAIGHT, PLUMB AND WORKMANLIKE MANNER UTILIZING APPROPRIATE MEANS AND METHODS.
20. VERIFY CEILING CONSTRUCTION WITH ARCHITECT IN ALL AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING FIXTURES WITH CORRECT TRIMS, FLANGES, MOUNTING HARDWARE, ETC. TO ASSURE COMPATIBILITY WITH CEILING STRUCTURE. COORDINATE PROCUREMENT OF DIFFERENT MOUNTING ACCESSORIES WITH 365 CONSTRUCTION MANAGER.
21. KEEP PENETRATIONS THROUGH COOLER AND FREEZER BOXES TO A MINIMUM. ROUTE ALL CONDUITS SERVING FREEZERS AND COOLERS DIRECTLY OUT OF THE BOX. PROVIDE A PENETRATION AT EACH LIGHT FIXTURE THROUGH CEILING. AVOID ROUTING CONDUIT INSIDE OF THE BOX.IF POSSIBLE, ROUTE DIRECTLY OUT THE REAR OF THE BOX IN AN ORDERLY MANNER. SEAL ALL PENETRATIONS THROUGH BOX WITH SILICONE SEALANT AND FILL CONDUIT FITTINGS/SEAL OFFS WITH EXPANDING FOAM SEALANT.
22. OCCUPANCY SENSORS SHALL NOT BE INSTALLED DIRECTLY TO LIGHT FIXTURE BODY. PROVIDE WEATHERPROOF JUNCTION BOX AT ALL OCCUPANCY SENSOR LOCATIONS INSIDE COOLER AND FREEZER BOXES.
23. PROVIDE GRAY SWITCHES, RECEPTACLES AND OUTLETS WITH STAINLESS STEEL COVER PLATES IN KITCHEN AND WET LOCATIONS. PROVIDE GRAY SWITCHES, RECEPTACLES AND OUTLETS WITH GRAY COVER PLATES IN ALL OTHER LOCATIONS.

ELECTRICAL LIGHTING PLAN NOTES

1 PROVIDE BACKBOX AND CONDUIT ROUTED TO ACCESSIBLE LOCATION FOR LIGHTING OVERRIDE SWITCH INSTALLED BY EMS CONTRACTOR. REFER TO LIGHTING CONTROL SCHEDULE ON E110 AND EM300 FOR ADDITIONAL INFORMATION.
2 REFER TO SHEET E200 FOR CIRCUITING OF RECEPTACLE FOR DOCK LIGHT.
3 PROVIDE SWITCHES WITH A WEATHER PROOF COVER.
4 STEM MOUNT EMERGENCY LIGHTS IN AREAS WITH NO CEILING. REFER TO DETAIL 7 SHEET E210.
5 LIGHTING FIXTURE TO BE MOUNTED DIRECTLY ABOVE CEILING/COOLER AND AIMED UP AT THE STRUCTURE.
6 NORMAL AND EMERGENCY EGRESS LIGHTING OUTSIDE OF TENANT LEASE SPACE IS THE RESPONSIBILITY OF THE LANDLORD.
7 REMOTE BATTERY PACK FOR EMERGENCY FIXTURE IN COOLER/FREEZER. CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. MOUNT BATTERY PACK HIGH ON WALL. ROUTE LOW VOLTAGE CABLE TO Y4 FIXTURE. SEAL PENETRATIONS THROUGH COOLER/FREEZER AS REQUIRED.
8 STEM MOUNT EXIT SIGNS IN AREAS WITH NO CEILING. REFER TO DETAIL 8 SHEET E210.
9 FIXTURES ARE ALIGNED WITH AND CONNECTED TO ADJACENT FIXTURE, BUT POWERED SEPARATELY.
10 LIGHT FIXTURES FURNISHED WITH EXHAUST HOOD EQUIPMENT. EQUIPMENT MANUFACTURER SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT ILLUMINATION TO COMPLY WITH LOCAL REQUIREMENTS. CONTRACTOR SHALL PROVIDE DEVICES AND RELATED CIRCUITRY FOR LIGHT FIXTURES PER MANUFACTURER'S RECOMMENDATIONS.
11 FOOD BAR DECORATIVE PEDANTS. REFER TO DETAIL 11 ON SHEET E210 FOR MORE INFORMATION.
12 SUSPEND LIGHT FIXTURE EVEN WITH SINGLE ENTRY FIXTURE THAT SHALL BE SURFACE MOUNTED.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

BUILDING CODE COMPLIANCE
EXTERIOR LIGHTING IS PROVIDED AND INSTALLED BY LANDLORD UNDER BUILDING SHELL PERMIT AND IS CONNECTED TO 365 ELECTRICAL SERVICE. LANDLORD IS RESPONSIBLE FOR PROVIDING ADEQUATE EXTERIOR EMERGENCY PATH OF EGRESS LIGHTING IN ACCORDANCE WITH BUILDING CODE.

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants
ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name
365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

05/21/2018

Sheet Title
ELECTRICAL LIGHTING PLAN

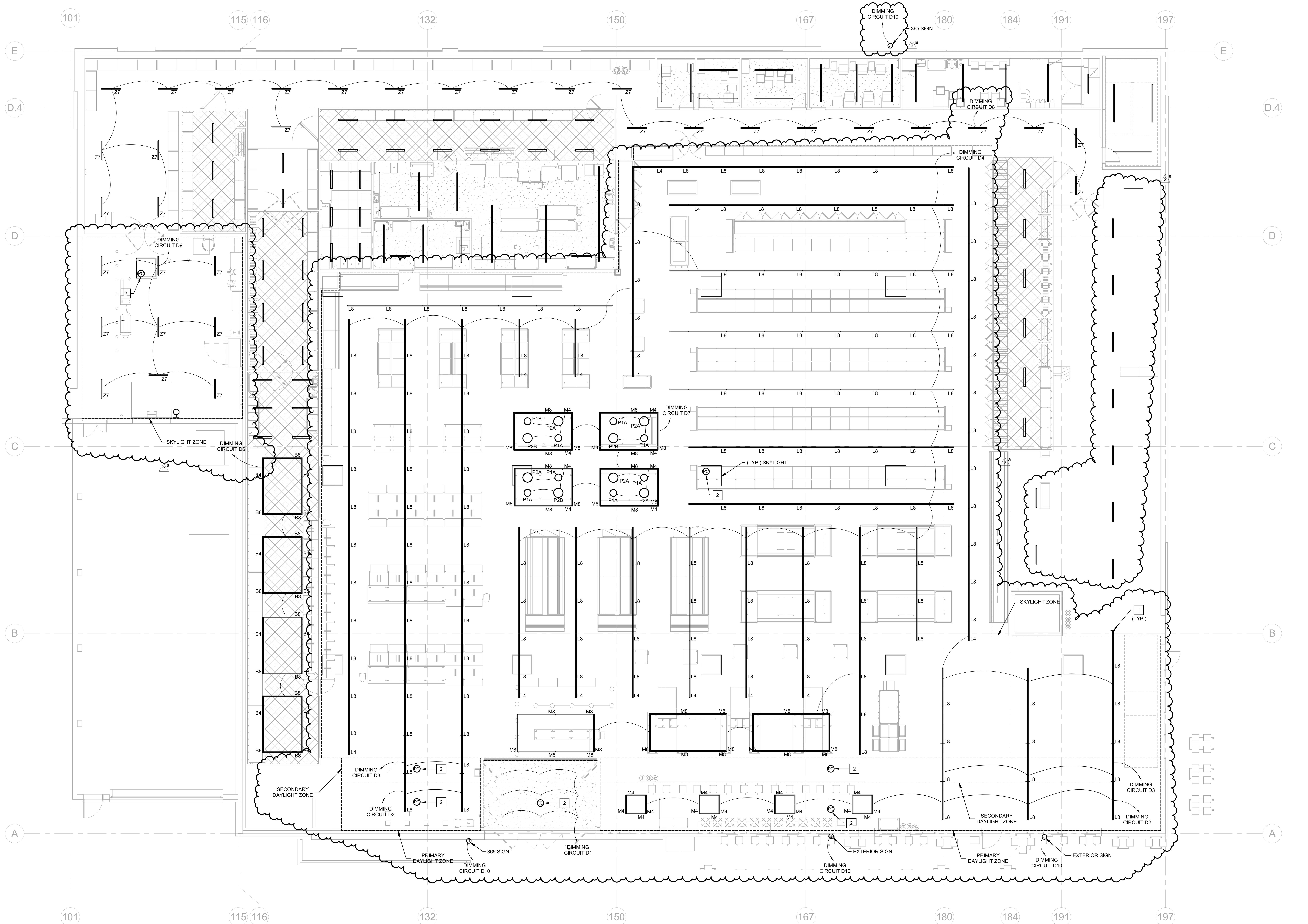
Sheet No. E100

5/22/2018 11:57:05 AM

ELECTRICAL LIGHTING PLAN NOTES

1 FIXTURES ARE ALIGNED WITH AND CONNECTED TO ADJACENT FIXTURE, BUT ARE DIMMED SEPARATELY.

2 SIEMENS DAYLIGHT/SKYLIGHT PHOTO SENSOR. REFER TO EM100 AND EM300 FOR ADDITIONAL INFORMATION.



1 LIGHTING DIMMING PLAN

1/8" = 1'-0"

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brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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7330 San Pedro Avenue, Suite 402
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PH - (210) 510-2300 FAX - (210) 510-2319
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Issues & Revisions

NO.	DATE	DESCRIPTION
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Project Name

365 BY WHOLE FOODS MARKET

DECATUR, GA

1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG

Checked By:

Drawn by: KJG

Document date: 01/26/18

Template date:

Project No. 62911019

Professional Seal

05/21/2018

Sheet Title

LIGHTING DIMMING PLAN

Sheet No. E101

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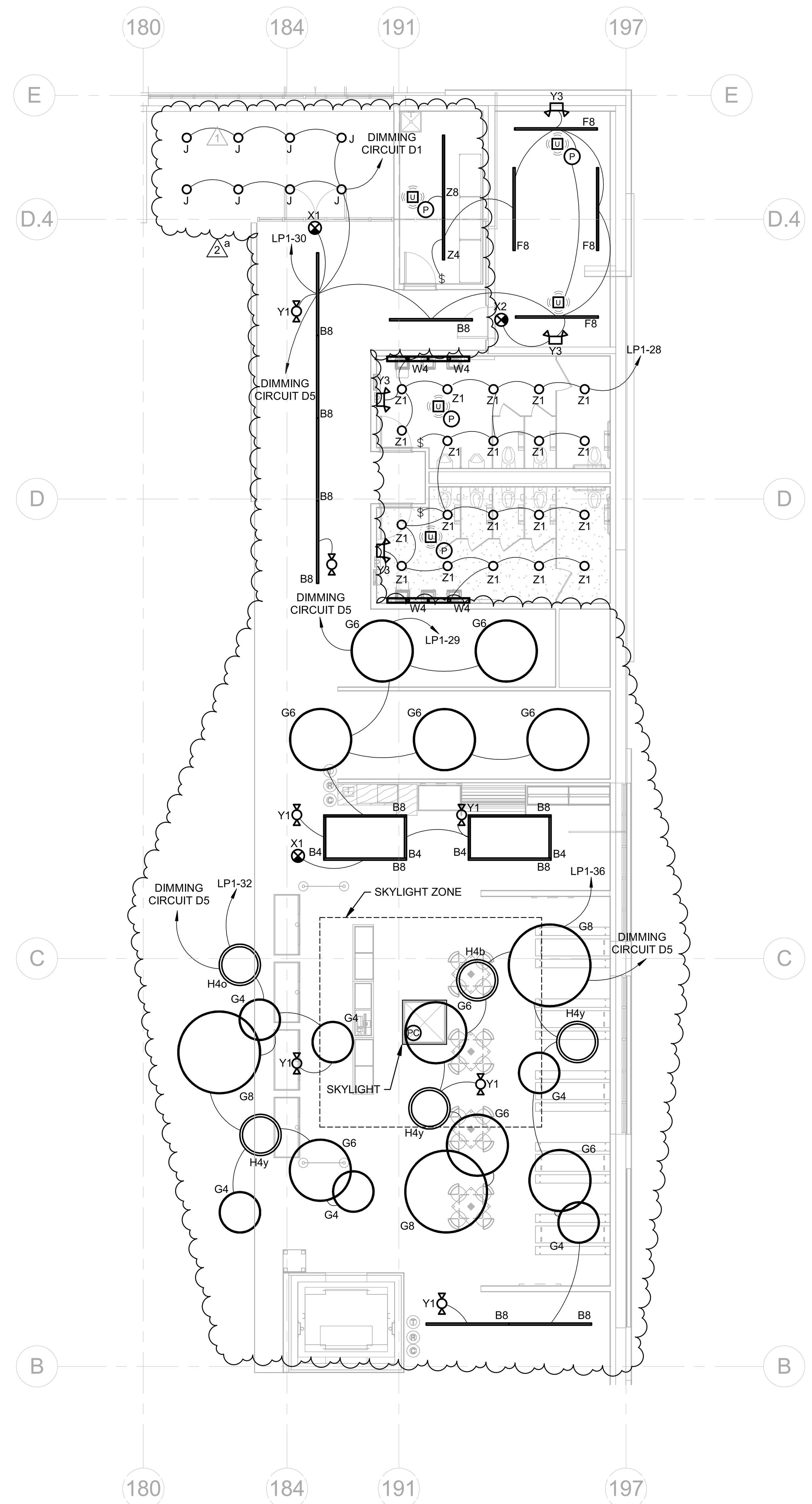

1 ELECTRICAL LIGHTING PLAN - MEZZANINE

1/8" = 1'-0"

Architect of Record:

BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
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Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: EG

Checked By:

Drawn by: KJG

Document date: 01/26/18

Template date:

Project No.

62911019

Professional Seal

05/21/2018

Sheet Title

ELECTRICAL LIGHTING PLAN - MEZZANINE

Sheet No.

E102

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SMART BREAKER CONTROL SCHEDULE						
CONTROL SCHEME #	LOAD DESCRIPTION	"ON" CONTROL	"ON" SETTING	"OFF" CONTROL	"OFF" SETTING	CONTROL SCHEME DESCRIPTION
L1	SALES LIGHTING	TIMED	6:00 AM	TIMED	12:00AM	
L2	FOOD BAR PENDANT LIGHTING	TIMED	6:00 AM	TIMED	12:00AM	
L3	BACK OF HOUSE LIGHTING	TIMED	6:00 AM	TIMED	12:00AM	
L4	FUIT & VEG LIGHTING	TIMED	6:00 AM	TIMED	12:00AM	
L5	PANTRY LIGHTING	TIMED	6:00 AM	TIMED	12:00AM	
L6	EXTERIOR SIGNS	TIMED	6:00 AM	TIMED	12:00AM	
L7	EXTERIOR SAFETY LIGHTING	PHOTOCELL	PHOTOCELL ON	PHOTOCELL	PHOTOCELL OFF	
L8	EXHAUST FANS	TIMED	8:00 AM	TIMED	10:00 PM	
L9	DE-STRATIFICATION FANS	TEMP	BELOW 55 DEGREES	TEMP	ABOVE 55 DEGREES	OPPERATE BASED ON OUTDOOR AIR TEMPERATURE SET-POINT OF LESS THAN 55 DEGREES
L10	AIR CURTAIN	TIMED	8:00 AM	TIMED	10:00 PM	

DIMMING CONTROL SCHEDULE					
DIMMING CIRCUIT #	CIRCUIT DESCRIPTION	OCCUPIED DIMMING SETTINGS	STOCKING DIMMING SETTINGS	NON-OCCUPIED DIMMING SETTINGS	CONTROL SCHEME DESCRIPTION
D1	VESTIBULE DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM FIX DIM TO 40%	DIM PER PHOTOCELL DURING OOCCUPIED HOURS TO MAINTAIN 100FC AT FLOOR; MINIMUM DIMMING TO BE SET AT 60%
D2	SALES PRIMARY DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	DIM PER PHOTOCELL DURING OOCCUPIED HOURS TO MAINTAIN 100FC AT FLOOR; MINIMUM DIMMING TO BE SET AT 60%
D3	SALES SECONDARY DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	DIM PER PHOTOCELL DURING OOCCUPIED HOURS TO MAINTAIN 100FC AT FLOOR; MINIMUM DIMMING TO BE SET AT 60%
D4	SALES SKYLIGHT DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	DIM PER PHOTOCELL DURING OOCCUPIED HOURS TO MAINTAIN 100FC AT FLOOR; MINIMUM DIMMING TO BE SET AT 60%
D5	MEZZANINE SKYLIGHT DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	NO PHOTOCELL CONTROL
D6	FRUIT & VEG DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	NO PHOTOCELL CONTROL
D7	FOOD BAR DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	NO PHOTOCELL CONTROL
D8	PANTRY DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	12:00 AM OFF VIA POWER SWITCHING BREAKER	NO PHOTOCELL CONTROL
D9	RECEIVING DIMMING	6:00 AM FIX DIM TO 90%	11:00 PM FIX DIM TO 40%	CONTROLLED VIA OCCUPANCY SENSOR	DIM PER PHOTOCELL DURING OOCCUPIED HOURS TO MAINTAIN 100FC AT FLOOR; MINIMUM DIMMING TO BE SET AT 60%
D10	EXTERIOR SIGNS	DIM PER PHOTOCELL	DIM PER PHOTOCELL	12:00 AM OFF VIA POWER SWITCHING BREAKER	DIM PER EXTERIOR PHOTOCELL DURING OCCUPIED HOURS

GENERAL NOTES:

A. CIRCUIT BREAKERS IN POWER-SWITCHING PANELBOARDS SHALL PROVIDE LOAD SWITCHING AT INDICATED CONTROL SCHEMES. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETELY FUNCTIONING SYSTEM IN ACCORDANCE WITH DESIGN INTENT, 365 REQUIREMENTS, LOCAL ENERGY CODES AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
B. COORDINATE ALL CONTROL SCHEMES AND TIME SETTINGS WITH 365 AND EMS CONTRACTOR AND PROVIDE INSTRUCTIONS TO OPERATIONS TEAM PERTAINING TO REPROGRAMMING OR ALTERING CONTROL SCHEMES.
C. PHOTOCELL IS FURNISHED BY 365 AND INSTALLED BY EMS CONTRACTOR.
D. INTERIOR LIGHT SENSING PHOTOCELLS ARE FURNISHED BY 365 AND INSTALLED BY EMS CONTRACTOR.

LIGHTING CONTROL DEVICE SCHEDULE							
SYMBOL TYPE	MANUFACTURER MODEL/SERIES	SENSOR DESCRIPTION	COVERAGE (W X D)	VOLTAGE	ON MODE	TIME DELAY	NOTES
WALL SWITCH OCCUPANCY SENSORS							
^{OS1}	WATTSTOPPER DW-100	SINGLE RELAY DUAL-TECHNOLOGY DETECTION WALL SWITCH WITH MANUAL OVERRIDE SWITCH	PIR MAJOR 30' x 35' PIR MINOR 15' x 20' ULT MAJOR 20' x 20' ULT MINOR 15' x 15'	120V	MANUAL	15 MIN	1,3
^{OS2}	WATTSTOPPER DW-200	DUAL RELAY DUAL-TECHNOLOGY DETECTION WALL SWITCH WITH MANUAL OVERRIDE SWITCHES	PIR MAJOR 30' x 35' PIR MINOR 15' x 20' ULT MAJOR 20' x 20' ULT MINOR 15' x 15'	120V	1: MANUAL 2: MANUAL	1: 15 MIN 2: 15 MIN	1
CEILING MOUNTED OCCUPANCY SENSORS							
U	WATTSTOPPER DT-300	CEILING MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR. 360° COVERAGE LOW VOLTAGE. ISOLATED RELAY.	PIR MAJOR 44' Ø PIR MINOR 25' Ø ULT MAJOR 40' X 40' ULT MINOR 30' X 30'	24V	AUTO	30 MIN	2
H	WATTSTOPPER WT-2250	CEILING MOUNT ULTRASONIC OCCUPANCY SENSOR. 180° COVERAGE LOW VOLTAGE. ISOLATED RELAY.	MAJOR 90LF	24V	AUTO	10 MIN	
OVERRIDE SWITCH							
^{OR}	WATTSTOPPER LVSW-101	WALL MOUNT LOW VOLTAGE OVERRIDE SWITCH FOR USE WITH 24V OCCUPANCY SENSOR ONE BUTTON	-	24V	-	-	
EXTERIOR AND LOW TEMPERATURE SENSORS							
C	WATTSTOPPER EW-205-24-W	EXTERIOR WEATHERPROOF, LOW/HIGH TEMP PASSIVE INFRARED OCCUPANCY SENSOR. 270° COVERAGE WITH ADJUSTABLE LIGHT LEVEL SETTINGS, LOW VOLTAGE	MAJOR 50' RADIUS MINOR 25' RADIUS	24V	AUTO	15 MIN	
POWER PACK							
P	WATTSTOPPER BZ-150	POWER PACK FOR LOW VOLTAGE SENSORS WITH 20A LOAD RELAY AND INTEGRAL TRANSFORMER MANUAL- AND AUTO-ON MODES, HOLD-ON AND HOLD-OFF INPUTS	- -	120/277V	-	-	

GENERAL NOTES:

A. SENSOR LAYOUT BASED ON WATT-STOPPER COVERAGE PATTERNS. ADJUST QUANTITIES AND LOCATIONS FOR ALTERNATE MANUFACTURERS LISTED BELOW PER MANUFACTURER SPECIFIC SPACING CRITERIA
B. COOPER-GREENGATE, HUBBELL BUILDING AUTOMATION, AND LEVITON ARE CONSIDERED EQUIVALENT MANUFACTURERS FOR SUBMISSION AS AN APPROVED ALTERNATE. DURING SHOP DRAWINGS, PROVIDE LIGHTING PLANS SHOWING LOCATION, MOUNTING HEIGHT, ORIENTATION AND COVERAGE AREAS FOR EACH OCCUPANCY SENSOR FOR REVIEW AND APPROVAL BY ENGINEER. ALSO INCLUDE ON PLANS OTHER CEILING MOUNTED SYSTEMS, SHOWING COORDINATION WITH CEILING DEVICES INCLUDING BUT NOT LIMITED TO HVAC SUPPLY AND RETURN GRILLES, SPRINKLERS, AND LIGHT FIXTURES.
C. PROVIDE ALL SENSORS BY THE SAME MANUFACTURER.
D. VERIFY COLOR(S) FOR WALL SWITCH SENSORS WITH THE ARCHITECT.
E. PROVIDE COPIES OF SENSOR AND POWER SUPPLY OPERATION INSTRUCTIONS TO OWNER.
F. ALL WALL SWITCH AND CEILING SENSORS SHALL HAVE AN ADJUSTABLE TIME DELAY RANGE OF 0-30 MIN, UNO.
G. DO NOT INSTALL LINE VOLTAGE SENSORS ON GFCI PROTECTED CIRCUITS.
H. ADJUST SENSOR LOCATION TO AVOID SHELVING AND OTHER OBSTRUCTIONS TO PROVIDE PROPER OPERATION.
I. ADJUST SENSOR SENSITIVITY TO PROVIDE PROPER OPERATION.

SCHEDULED NOTES:

1. WALL SWITCH SENSOR REQUIRES A NEUTRAL CONDUCTOR FOR OPERATION.
2. SET DIP SWITCHES TO PROVIDE INITIAL AND MAINTAIN SETTING BY EITHER PIR OR ULTRASONIC.
3. SET DIP SWITCHES TO PROVIDE INITIAL OCCUPANCY TO TURN ON BY ONLY PIR DETECTION.

LIGHT FIXTURE SCHEDULE											
COUNT	TYPE	MANUFACTURER/MODEL #	LAMPS			INPUT WATTS	INPUT VA	DESCRIPTION	MOUNTING	NOTES
			NO.	TYPE	VOLT					
12	B4	WILLIAMS 75-4-L50-830	-	INTEGRAL LED 0-10V DIMMING DIMMING 5500 LUMENS	120/277	40 W	42 VA	4' LED STANDARD STRIP	SUSPEND 9'-0" A.F.F.	1
27	B8	WILLIAMS 75-8-L100-830	-	INTEGRAL LED 0-10V DIMMING DIMMING 11000 LUMENS	120/277	75 W	79 VA	8' LED STANDARD STRIP	SUSPEND 9'-0" A.F.F.	1
43	CL4	COLUMBIA LIGHTING LXEM4-35HL-RFA-EU	-	INTEGRAL LED 6000 LUMENS	120/277	55 W	59 VA	4' LED ENCLOSED AND GASKETED WET LOCATION LISTED FIXTURE	SURFACE	
1	DL	LDPI DL-INC-LH W/ DL-42-ARM	1	LIGHTING SCIENCE DFN38 WW V2 NL 120 24W PAR38 LED	120	24 W	25 VA	32" FLEXIBLE LED DOCK LIGHT. PROVIDE 3' CORD WITH NEMA 5-15P.	WALL 4'-0" A.F.F.	
5	F4	WILLIAMS 75-4-L50-830	-	INTEGRAL LED 0-10V DIMMING DIMMING 5500 LUMENS	120/277	40 W	42 VA	4' LED STANDARD STRIP	SURFACE	
28	F8	WILLIAMS 75-8-L100-830	-	INTEGRAL LED 0-10V DIMMING DIMMING 11000 LUMENS	120/277	75 W	79 VA	8' LED STANDARD STRIP	SURFACE	
6	G4	LUMIUM LIGHTING #OS2-CD-4'-30K-LO-UNV-1D-PCS(POWDER COAT SILVER)-SW-50-SW-PSS-TBD	-	INTEGRAL LED 0-10V DIMMING DIMMING 5000 LUMENS	120/277	75 W	79 VA	4' DIAMETER PENDANT MOUNTED RING, DIRECT, 3000K, 0-10V 1% DIM, LOW OUTPUT, FROSTED LENS, 5" POWERFEED CANOPY, SILVER POWDERCOAT FINISH	SUSPEND 11'-6" TO 12'-6" A.F.F.	
9	G6	LUMIUM LIGHTING #OS2-CD-6'-30K-LO-UNV-1D-PCS(POWDER COAT SILVER)-SW-50-SW-PSS-TBD	-	INTEGRAL LED 0-10V DIMMING DIMMING 10000 LUMENS	120/277	113 W	119 VA	6' DIAMETER PENDANT MOUNTED RING, DIRECT, 3000K, 0-10V 1% DIM, LOW OUTPUT, FROSTED LENS, 5" POWERFEED CANOPY, SILVER POWDERCOAT FINISH	SUSPEND 11'-6" TO 12'-6" A.F.F.	
3	G8	LUMIUM LIGHTING #OS2-CD-4'-30K-LO-UNV-1D-PCS(POWDER COAT SILVER)-SW-50-SW-PSS-TBD	-	INTEGRAL LED 0-10V DIMMING DIMMING 10000 LUMENS	120/277	151 W	159 VA	8' DIAMETER PENDANT MOUNTED RING, DIRECT, 3000K, 0-10V 1% DIM, LOW OUTPUT, FROSTED LENS, 5" POWERFEED CANOPY, SILVER POWDERCOAT FINISH	SUSPEND 11'-6" TO 12'-6" A.F.F.	
1	H4b	LUMIUM LIGHTING #OS2-CD-4'-30K-LO-UNV-1D-CP(CUSTOM POWDER COAT)-SW-50-SW-PSS-TBD	-	INTEGRAL LED 0-10V DIMMING DIMMING 5000 LUMENS	120/277	75 W	79 VA	4' DIAMETER PENDANT MOUNTED RING, DIRECT, 3000K, 0-10V 1% DIM, LOW OUTPUT, FROSTED LENS, 5" POWERFEED CANOPY, BLUE POWDERCOAT FINISH	SUSPEND 11'-6" TO 12'-6" A.F.F.	
1	H4o	LUMIUM LIGHTING #OS2-CD-4'-30K-LO-UNV-1D-CP(CUSTOM POWDER COAT)-SW-50-SW-PSS-TBD	-	INTEGRAL LED 0-10V DIMMING DIMMING 5000 LUMENS	120/277	75 W	79 VA	4' DIAMETER PENDANT MOUNTED RING, DIRECT, 3000K, 0-10V 1% DIM, LOW OUTPUT, FROSTED LENS, 5" POWERFEED CANOPY, YELLOW POWDERCOAT FINISH	SUSPEND 11'-6" TO 12'-6" A.F.F.	
3	H4y	LUMIUM LIGHTING #OS2-CD-4'-30K-LO-UNV-1D-CP(CUSTOM POWDER COAT)-SW-50-SW-PSS-TBD	-	INTEGRAL LED 0-10V DIMMING DIMMING 5000 LUMENS	120/277	75 W	79 VA	4' DIAMETER PENDANT MOUNTED RING, DIRECT, 3000K, 0-10V 1% DIM, LOW OUTPUT, FROSTED LENS, 5" POWERFEED CANOPY, ORANGE POWDERCOAT FINISH	SUSPEND 11'-6" TO 12'-6" A.F.F.	
8	J	CONTECH #CYL6-6-30K-MVD-P-M-PL-S CSK36-S	-	INTEGRAL LED 3000 LUMENS	120/277	43 W	45 VA	6" DIAMETER PENDANT CYLINDER, 3000K, 36" STEM KIT, MEDIUM BEAM DISTRIBUTION, SILVER FINISH	PENDANT 17'-6" A.F.F.	
16	L4	COOPER (METALUX) PDR69535-4SKBLED-R-LD1-5-W-UNV-L830-CD1-PL1WG-U -0-10VQUICKCONN / Y-TOGGLE-30 PENDANT SYSTEMS #MGR-SE-1-4-20-EXT-M	-	INTEGRAL LED 0-10V DIMMING DIMMING 5000 LUMENS	120/277	46 W	48 VA	4' LINEAR LED PENDANT. NATURAL ALUMINUM FINISH. PROVIDE WITH 196" AIRCRAFT SUSPENSION CABLE. FIXTURES FAILS TO 100% BRIGHTNESS ON DIMMING FAILURE OR LOSS OF POWER. CONTRACTOR TO FURNISH CORD.	SUSPEND 12'-6" A.F.F.	
159	L8	COOPER (METALUX) PDR69352-8SKBLED-R-LD1-10-W-UNV-L830-CD1-PL1WG-U -0-10VQUICKCONN / Y-TOGGLE-30 PENDANT SYSTEMS #MGR-SE-1-4-20-EXT-M	-	INTEGRAL LED 0-10V DIMMING DIMMING 10000 LUMENS	120/277	65 W	68 VA	8' LINEAR LED PENDANT. NATURAL ALUMINUM FINISH. PROVIDE WITH 196" AIRCRAFT SUSPENSION CABLE. FIXTURES FAILS TO 100% BRIGHTNESS ON DIMMING FAILURE OR LOSS OF POWER. CONTRACTOR TO FURNISH CORD.	SUSPEND 12'-6" A.F.F.	
24	M4	WILLIAMS 75-4-L50-830	-	INTEGRAL LED 0-10V DIMMING DIMMING 5500 LUMENS	120/277	40 W	42 VA	4' LED STANDARD STRIP	SUSPEND 11'-6" A.F.F.	
34	M8	WILLIAMS 75-4-L50-830	-	INTEGRAL LED 0-10V DIMMING DIMMING 11000 LUMENS	120/277	75 W	79 VA	8' LED STANDARD STRIP	SUSPEND 11'-6" A.F.F.	
7	P1A	MIO BENDANT MINI	1	12W LED E12 BASE	120	12 W	13 VA	20" CUSTOMIZABLE DECORATIVE PENDANT SILVER FINISH	SUSPEND 8'-6" A.F.F.	1
1	P1B	MIO BENDANT MINI	1	12W LED E12 BASE	120	12 W	13 VA	20" CUSTOMIZABLE DECORATIVE PENDANT CHARTREUSE FINISH	SUSPEND 8'-6" A.F.F.	1
5	P2A	MIO BENDANT	1	12W LED E26 BASE	120	12 W	13 VA	33" CUSTOMIZABLE DECORATIVE PENDANT CHARTREUSE FINISH	SUSPEND 9'-6" A.F.F.	1
3	P2B	MIO BENDANT	1	12W LED E26 BASE	120	12 W	13 VA	33" CUSTOMIZABLE DECORATIVE PENDANT FLUORESCENT RED FINISH	SUSPEND 9'-6" A.F.F.	1
4	W4	TECH LIGHTING 700BCGIAR648CS-LED830-120	-	INTEGRAL LED 2400 LUMENS	120	30 W	32 VA	4' LED WALL MOUNT	WALL 7'-0" A.F.F.	
13	X1	ASTRALITE AEL-U-X-RM-W-EM	-	INTEGRAL LED	120/277	3 W	3 VA	EDGE LIT LED EXIT SIGN. SINGLE/DOUBLE FACE. VERIFY MOUNTING CONFIGURATION AND CHEVRONS PER PLANS. RED LIGHT ON MIRROR SURFACE.	VARIES	
9	X2	ASTRALITE TP-U-R-W-EM	-	INTEGRAL LED	120/277	3 W	3 VA	THERMOPLASTIC LED EXIT SIGN. SINGLE/DOUBLE FACE. VERIFY MOUNTING CONFIGURATION AND CHEVRONS PER PLANS. RED LIGHT ON WHITE SURFACE.	VARIES	
53	Y1	LITHONIA ELMLT-W-LP06VS-LTP	2	INTEGRAL LED	120/277	5 W	5 VA	THERMOPLASTIC ADJUSTABLE LED EMERGENCY LIGHT WITH INTEGRAL BATTERY BACK-UP AND SELF DIAGNOSTICS	SUSPEND 12'-6" A.F.F.	
10	Y2	LITHONIA ELMLT-W-LP06VS-LTP	2	INTEGRAL LED	120/277	5 W	5 VA	THERMOPLASTIC ADJUSTABLE LED EMERGENCY LIGHT WITH INTEGRAL BATTERY BACK-UP AND SELF DIAGNOSTICS	SURFACE	
16	Y3	LITHONIA ELMLT-W-LP06VS-LTP	2	INTEGRAL LED	120/277	5 W	5 VA	THERMOPLASTIC ADJUSTABLE LED EMERGENCY LIGHT WITH INTEGRAL BATTERY BACK-UP AND SELF DIAGNOSTICS	WALL 8'-0" A.F.F.	
10	Y4	ASTRALITE DCNH-W-60-6 / REM-1-2H-6	2	6W INC	120/277	6 W	6 VA	TWIN HEAD REMOTE BATTERY FIXTURE CEILING MOUNTED IN COOLER OR FREEZER. MOUNT REMOTE BATTERY PACK OUTSIDE COOLER OR FREEZER.	SURFACE	
20	Z1	EATON-PORTFOLIO LD6B30D010/EU6B60508030/6LBWH	-	INTEGRAL LED 3000 LUMENS	120/277	28 W	29 VA	RECESSED LED DOWNLIGHT	RECESSED	
1	Z4	LITHONIA #ZL1N-L48-7000LM-FST-MVOLT-35K-80CRI-GALV-ZACVH AIRCRAFT CABLE SUSPENSION KIT	-	INTEGRAL LED	120/277	52 W	55 VA	4' LED STANDARD STRIP	SUSPEND 10'-0" A.F.F.	
45	Z7	WILLIAMS 75-4-L65-835	-	INTEGRAL LED 6600 LUMENS	120/277	53 W	56 VA	4' LED STANDARD STRIP	SUSPEND 10'-0" A.F.F.	
1	Z8	LITHONIA #ZL1N-L96-14000LM-FST-MVOLT-35K-80CRI-GALV-ZACVH AIRCRAFT CABLE SUSPENSION KIT	-	INTEGRAL LED	120/277	104 W	109 VA	8' LED STANDARD STRIP	SUSPEND 10'-0" A.F.F.	

GENERAL NOTES:

1. LIGHT FIXTURES AND LAMPS ARE FURNISHED BY 365 AND RECEIVED AND INSTALLED BY E.C.
2. CATALOG NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBERS ONLY. FIRST READ THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS IN CONJUNCTION WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR DESIGN.
3. REFER TO LIGHTING PLANS AND ARCHITECTURAL DRAWINGS AND DETAILS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND ADDITIONAL MOUNTING INFORMATION PRIOR TO ROUGH-IN.
4. CONTRACTOR SHALL SUPPLY A COMPLETE AND OPERATIONAL SYSTEM TO COMPLY WITH DESIGN INTENT.
5. ALL LIGHT FIXTURES OVER OPEN FOOD AREAS, COFFIN CASES AND FOOD PREP AREAS SHALL BE PROVIDED WITH PROTECT-A-LAMP COVERS OR EQUIVALENT SHIELDED OR SHATTERPROOF LAMPS. CONTRACTOR SHALL VERIFY THAT ALL AREAS ARE PROPERLY PROTECTED AFTER STORE SET-UP IS COMPLETE.
6. REFER TO LIGHTING CONTROL NOTES AND PANELBOARD SCHEDULES FOR CONTROL INFORMATION.
7. THE QUANTITY AND MAXIMUM RATED WATTAGE OF THE LIGHT FIXTURES SPECIFIED ARE DESIGNED TO COMPLY WITH LOCAL ENERGY CODE AND SHALL NOT BE INCREASED WITHOUT APPROVAL OF ENGINEER. PROVIDE FACTORY-INSTALLED MAXIMUM WATTAGE LABEL ON INCANDESCENT AND HALOGEN LIGHT FIXTURES THAT CORRESPOND TO THE MAXIMUM WATTAGE INDICATED IN THIS LIGHT FIXTURE SCHEDULE.

NOTES:

1. ANY ADDITIONAL HARDWARE REQUIRED TO BE STAINLESS STEEL AND INSTALLED IN A CLEAN, PROFESIONAL MANNER.

INDIVIDUAL SPACE CONTROL SCHEDULE - ASHRAE 2013 COMPLIANT

TYPICAL SPACE	CONTROL DEVICE	"ON" CONTROL	"OFF" CONTROL	"OFF" SETTING	MANUAL CONTROL	LIGHTING REDUCTION	ADDITIONAL CONTROLS	CONTROL DESCRIPTION
RESTROOMS	OCCUPANCY SENSOR	AUTO ON - 100%	TIMED	REFER TO OCC SENSOR SCHEDULE		NOT REQUIRED RESTROOM	FULL AUTO	AUTOMATICALLY TURN ON ALL FIXTURES TO 100% LIGHTING LEVEL WITH OCCUPANCY SENSOR.
OFFICES	OCCUPANCY SENSOR	MANUAL ON	TIMED	REFER TO OCC SENSOR SCHEDULE	"ON"	YES	MANUAL ON OCC SENSOR BI LEVEL	TURN ON ALL FIXTURES TO 100% LIGHTING LEVEL WITH MANUAL BUTTON ON OCCUPANCY SENSOR.
BREAKROOM/ MEETING ROOM	OCCUPANCY SENSOR	MANUAL ON	TIMED	REFER TO OCC SENSOR SCHEDULE	"ON"	YES	MANUAL ON OCC SENSOR BI LEVEL	TURN ON ALL FIXTURES TO 100% LIGHTING LEVEL WITH MANUAL BUTTON ON OCCUPANCY SENSOR.
COOLER AND FREEZER	OCCUPANCY SENSOR	AUTO ON - 100%	TIMED	REFER TO OCC SENSOR SCHEDULE		NOT REQUIRED STORAGE RM	OCC SENSOR	AUTOMATICALLY TURN ON ALL FIXTURES TO 100% LIGHTING LEVEL WITH OCCUPANCY SENSOR.
BOH CORRIDOR/ RECEIVING	OCCUPANCY SENSOR	AUTO ON - 100 %	TIMED	REFER TO OCC SENSOR SCHEDULE	"OFF"	NOT REQUIRED CORRIDOR	OCC SENSOR	AUTOMATICALLY TURN ON ALL FIXTURES TO 100% LIGHTING LEVEL WITH OCCUPANCY SENSOR. 100% ON - PER STORAGE ROOM EXEMPTION FROM LIGHTING REDUCTION
KITCHEN	AUTOMATIC TIME SWITCH	TIMED	TIMED	REFER TO LIGHTING CONTROL	"OFF"	MULTI-LEVEL SWTICHING	TIME SWITCH	CONTROLLED BY TIME OF DAY, WITH LOCAL OVERRIDE "OFF" SWITCH
SALES FLOOR GENERAL LIGHTING	AUTOMATIC TIME SWITCH	TIMED	TIMED	REFER TO LIGHTING CONTROL	"OFF" VIA CENTRAL OVERRIDE	DIMMING	DIMMING	DIMMING SET VIA TIME SCHEDULE WITH PRESET RANGES VIA LIGHT LEVEL SENSOR. 0-10V CONTROL OF DRIVERS.

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brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

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1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

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Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

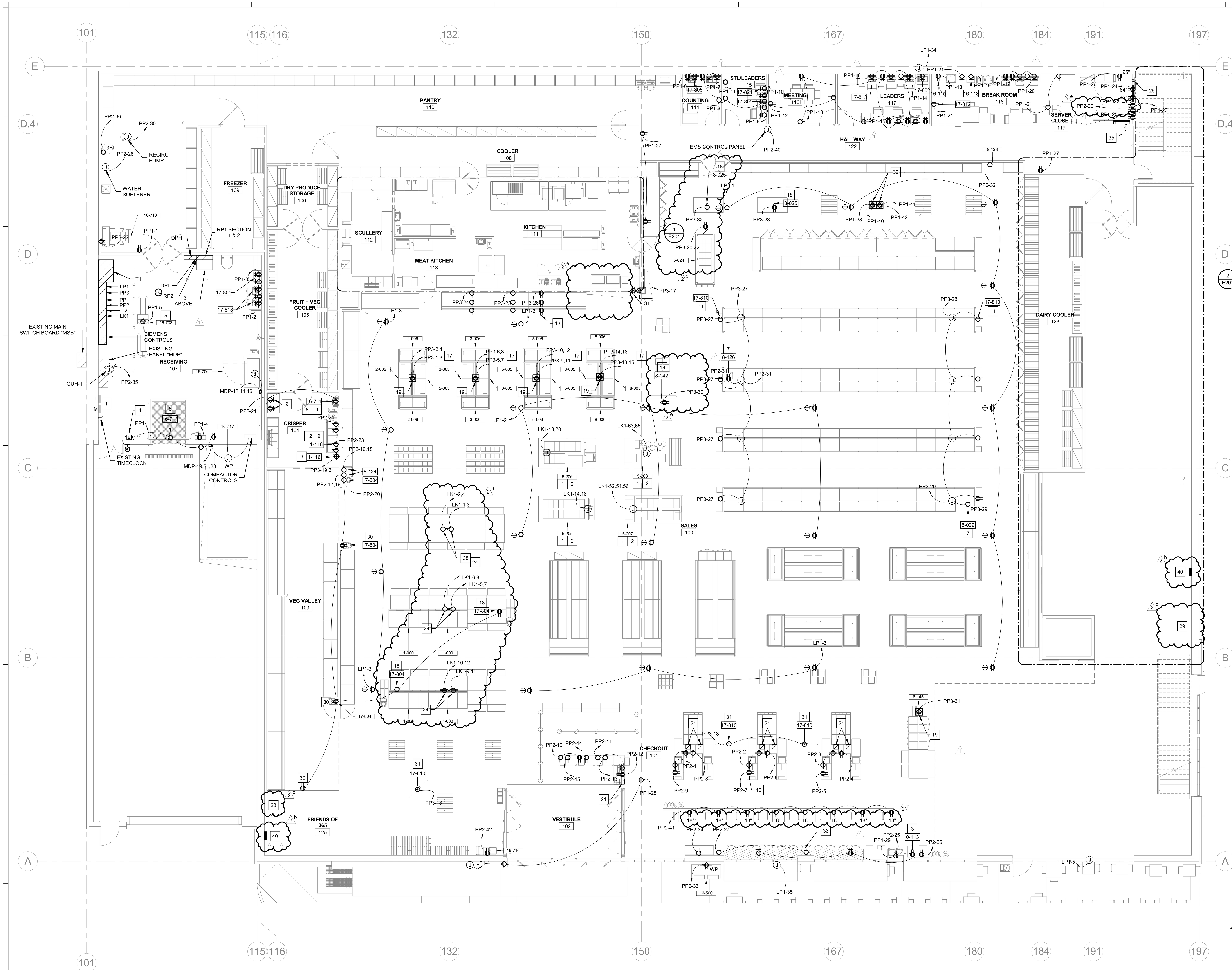
Project No.
62911019

Professional Seal

05/21/2018

Sheet Title
LIGHTING SCHEDULES AND DETAILS

Sheet No.
E110



1 ELECTRICAL POWER PLAN
1/8" = 1'-0"

COORDINATE FINAL UNDERGROUND ELECTRICAL RACEWAY INSTALLATION WITH FINAL FIXTURE PLAN.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

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GENERAL ELECTRICAL POWER NOTES:

1. ROUTE ALL EXPOSED, RIGID CONDUIT TIGHT TO STRUCTURE NEAR TOP CHORD OF BAR JOISTS, PARALLEL TO BUILDING LINES WHERE POSSIBLE. COORDINATE CONDUIT ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH- IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. MAINTAIN 2" MIN SPACING FROM BOTTOM OF ROOF DECK TO PREVENT ROOFING SCREWS FROM PENETRATING CONDUITS. AVOID ROUTING CONDUIT THROUGH SKYLIGHTS.
2. MC CABLE IS ALLOWED TO BE USED. MC CABLE NOT ALLOWED FOR HOMERUNS OR WHERE SPECIFICALLY DISALLOWED BY AHJ. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULL WIRES.
4. AT THE CONTRACTORS OPTION, ALL POWER AND COMMUNICATION/DATA CONDUITS MAY BE ROUTED BELOW SLAB. COORDINATE ROUTING WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
5. PRIOR TO ROUGH-IN OF COMMUNICATION AND ELECTRICAL OUTLETS, COORDINATE WITH 365 AND/OR ARCHITECT FOR FINAL LOCATIONS.
6. PROVIDE GROUND FAULT PROTECTION FOR PERSONAL FOR ALL 120V, 15 AMP AND 20 AMP CIRCUITS IN SCULLERY AND MEAT PREP KITCHEN PER NEC 210.8 (B). PROVIDE GFI RECEPTACLES, GFCI FEED-THRU DEVICES OR GFCI BREAKERS.
7. PROVIDE RED-DOT CK SERIES WEATHERPROOF IN-USE COVERS FOR ALL RECEPTACLES UNDER THE KITCHEN HOOD. PROVIDE ADEQUATE INTERNAL DEPTH TO ALLOW FOR COVER TO BE COMPLETELY SHUT WITH DEVICE PLUGGED IN.
8. PROVIDE GRAY SWITCHES, RECEPTACLES AND OUTLETS WITH STAINLESS STEEL COVER PLATES IN KITCHEN AND WET LOCATIONS. PROVIDE GRAY SWITCHES, RECEPTACLES AND OUTLETS WITH GRAY COVER PLATES IN ALL OTHER LOCATIONS.
9. ALL BRANCH CIRCUITS SHALL INCLUDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
10. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.
11. VERIFY EXACT ELECTRICAL REQUIREMENTS FOR ALL TENANT FURNISHED EQUIPMENT PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY INCLUDING, BUT NOT LIMITED TO: CONDUIT, CONDUCTOR(S), DISCONNECT, RECEPTACLE, CIRCUIT BREAKER AND TERMINATION. SUBMIT ALL VARIANCES FROM PLAN TO ENGINEER FOR VERIFICATION. ALL EXTERIOR AND INTERIOR WP COVERS, WHEREVER PRACTICAL, SHALL BE METALLIC IN-USE TYPE. LARGE BUBBLE COVERS SHALL NOT BE USED ON THE EXTERIOR OF THE BUILDING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EQUIPMENT TO BE LOCATED CLOSE TO THE WALL. REFER TO SPECIFICATIONS FOR ADDITONAL INFORMATION.
12. ALL EXTERIOR AND INTERIOR WP COVERS, WHEREVER PRACTICAL, SHALL BE METALLIC IN-USE TYPE. LARGE BUBBLE COVERS SHALL NOT BE USED ON THE EXTERIOR OF THE BUIDLING OR BEHIND EQUIPMENT IN ORDER TO PREVENT DAMAGE TO THE COVER AND TO ALLOW THE EAUIPMENT TO BE LOCATED CLOSE TO THE WALL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
13. CONTRACTOR TO PROVIDE UPDATED AND FINAL ELECTRICAL PANEL SCHEDULES FOR ALL PANELBOARDS UPON COMPLETEION OF THE PROJECT.
14. REFER TO FIRE ALARM PLANS FOR ADDITIONAL BACKBOX AND CONDUIT REQUIREMENTS FOR FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY BACKBOXES AND CONDUITS FOR FIRE ALARM SYSTEM. CONFIRM WITH FIRE ALARM CONTRACTOR.
15. REFER TO MEP EQUIPMENT CONNECTION SCHEDULE FOR ALL OWNER PROVIDED EQUIPMENT CONNECTIONS.
16. ALL EQUIPMENT UNDER KITCHEN HOOD SHALL BE CONNECTED TO SHUNT- TRIP CIRCUIT BREAKERS TO OPEN CIRCUIT BY HOOD FIRE SUPRESSION SYSTEM.
17. SURFACE MOUNT BACKBOXES TO FREEZER AND COOLER WALLS. REFER TO ARCHITECTURAL PLANS FOR COOLER WALL LOCATIONS. UTILIZE DIE-CAST (METALLIC) WEATHERPROOF BACKBOXES SURFACE MOUNTED BOXES WITH THREADED HUBS (EQUAL TO HUBBELL "BELL" BOX. ALL EXPOSED POWER AND CONTROLS WIRING SHALL BE INSTALLED IN CONDUIT.
18. COORDINATE MOUNTING, INSTALLING AND WIRING OF ALL COMPONENTS IN WALK-IN COOLER WITH EQUIPMENT SUPPLIER AND INSTALLATION CONTRACTOR. PROVIDE INTERNAL AND EXTERNAL SEALS (BY LINKSEAL OR APPROVED EQUAL) AT CONDUIT PENETRATIONS THROUGH COOLER CEILING AND/OR WALLS. INSTALL CONDUIT PER MANUFACTURE'S SPECIFICATIONS.
19. INSTALL ALL CONDUIT, WIRING, AND CONTROL CABLING TIGHT TO BOTTOM OF ALL ELEVATED CASES (CASES ON LEGS) TO CONCEAL FROM SIGHT.
20. ALL DESK RECEPTACLES IN OFFICES AND BREAKROOM SHALL BE MOUNTED 8" ABOVE DESK SURFACE. COORDINAT EXACT HEIGHT WITH PROVIDED MILLWORK.

ELECTRICAL POWER PLAN NOTES

1 CONNECT TO FACTORY INSTALLED INTEGRAL LOADCENTER. ROUTE CONDUIT UNDERGROUND AND UP TO NEAREST COLUMN OR WALL, OR DIRECTLY TO PANELBOARD INDICATED.

2 PROVIDE SPARE 1-1/2" CONDUIT FROM UNDER BAR TO ACCESSIBLE AREA FOR FUTURE USE.

3 MOUNT RECEPTACLE WITHIN CASEWORK. REFER TO ARCHITECTURAL DETAILS FOR MORE INFORMATION.

4 DELIVERY BUZZER SYSTEM. PROVIDE EDWARDS 55 SERIES DOORBELL, TRANSFORMER, AND EDWARDS 1786-B WEATHERPROOF PUSHBUTTON, OR EQUAL.

5 RECEPTACLE FOR MOTORIZED PALLET JACK CHARGING STATION. PROVIDE KH INDUSTRIES RTBB3LW-1DD520-J12F WITH 25' OF 12/3 BLACK SO CABLE RATED AT 120V. PROVIDE WITH END TO MATCH EQUIPMENT. PROVIDE WITH BALL STOP TO KEEP OUTLET WITHIN EASY REACH FROM RECEIVING FLOOR.

7 PROVIDE RECEPTACLE AT SHELVING DISPLAY. DROP CONDUIT DOWN FROM STRUCTURE TO A JUNCTION BOX ON TOP OF GONDOLA. SURFACE MOUNT BACKBOX TO SPINE OF GONDOLA. NOTCH SHELVES AS REQUIRED.

8 RECEPTACLE FOR BUG ZAPPER. CONFIRM LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER RECOMMENDATIONS PRIOR TO ROUGH-IN.

9 SURFACE MOUNT BACKBOX AND CONDUIT ON COOLER WALL. COORDINATE CONDUIT ROUTING IN FIELD. SEAL ALL PENETRATIONS AS REQUIRED BY COOLER MANUFACTURER.

10 MOUNT RECEPTACLES WITHIN CHECK STAND MILLWORK. DEVICE WITH "POS" DESIGNATION IS DEDICATED FOR CASH REGISTER. QUAD RECEPTACLE IS FOR UTILITY POWER. ROUTE CIRCUITING DOWN THROUGH POWER/TELECOM POLE. COORDINATE INSTALLATION WITH CASH REGISTER MILLWORK.

11 PROVIDE DUPLEX RECEPTACLE FOR DIGITAL DISPLAY AT GONDOLA ENDCAP. DROP CONDUIT DOWN FROM STRUCTURE TO A JUNCTION BOX ON TOP OF GONDOLA. SURFACE MOUNT BACKBOX TO BACK OF SHELVES OF ENDCAP. NOTCH SHELVES IN GONDOLA AS REQUIRED. COORDINATE INSTALLATION WITH DIGITAL DISPLAY SUPPLIER.

12 DUPLEX RECEPTACLES FOR MISTING SYSTEM. REFER TO ARCHITECTURAL ELEVATIONS.

13 RECEPTACLE FOR DIGITAL DISPLAY SCREEN. CONFIRM LOCATION IN FIELD PRIOR TO ROUGH-IN.

17 ROUTE FLOOR BOX CONDUITS UNDERSLAB AND UP NEARBY WALL TO ABOVE CEILING OR TRUSS SPACE ABOVE. PROVIDE (1) 1" CONDUIT WITH PULL STRING REFRIGERATION CONTROL WIRING. REFER TO SHEET EM101 FOR ADDITIONAL INFORMATION. COORDINATE CONDUIT ROUTING IN FIELD.

2a

18 PROVIDE KH INDUSTRIES RTBB3LW-1DD520-J12F WITH 25' OF 12/3 BLACK SO CABLE RATED AT 120V. PROVIDE WITH END TO MATCH EQUIPMENT. PROVIDE WITH BALL STOP TO KEEP OUTLET WITHIN EASY REACH FROM SALES FLOOR. VERIFY FINAL LOCATION WITH 365.

19 PROVIDE WIREMOLD #RFB4-CI-1 WITH FLOORPORT SERIES COVER #FPBTAL. PROVIDE (2) #CIHT-D INTERNAL DUPLEX RECEPTACLE BRACKETS AND (2) DUPLEX RECEPTACLES FOR POWER. PROVIDE (2) #CIH/LT-B INTERNAL BLANK BRACKETS FOR USE BY EMS CONTRACTOR AND REFRIGERATION CONTROLS NETWORK WIRING. PROVIDE ALL NECESSARY ACCESSORIES FOR A COMPLETE FINISHED ASSEMBLY. ENSURE FLOOR BOX IS ADJUSTED PROPERLY AND IS FLUSH WITH THE FINISHED FLOOR.

21 COMBINATION POWER AND TELECOM POLE WITH TWO COMPARTMENTS FOR POWER AND DATA CONNECTIONS TO CASH REGISTERS. ROUTE POWER AND DATA CABLES THROUGH POLE. PROVIDE WIREMOLD #25DTC-415 OR EQUIVALENT. POWER POLE TO BE PRE-PRIMED AND PAINTABLE BY GENERAL CONTRACTOR.

2a

24 PROVIDE SJTO BLACK CORD DROP FOR EQUIPMENT BELOW. PROVIDE PLUG TO MATCH EQUIPMENT RECEPTACLE. VERIFY FINAL LOCATION WITH 365.

25 PROVIDE (2) 4" CONDUIT SLEEVES THROUGH CEILING FOR CABLING. ROUTE ALONG EXTERIOR WALL.

2a

28 ROUTE (1) 2" CONDUIT OVERHEAD FROM MAIN BREAKER IN POWER WALL FOR FRIEND'S SPACE. TERMINATE CONDUIT IN JUNCTION BOX, LOCATED IN STRUCTURE ABOVE FRIENDS SPACE AND PROVIDE PULLSTRING IN CONDUIT.

29 ROUTE (1) 4" CONDUIT OVERHEAD FROM MAIN BREAKER IN POWER WALL FOR FRIEND'S SPACE. TERMINATE CONDUIT IN JUNCTION BOX, LOCATED IN STRUCTURE ABOVE FRIENDS SPACE AND PROVIDE PULLSTRING IN CONDUIT.

30 SURFACE MOUNT CONDUIT AND RECEPTACLE BACKBOX TO COOLER PANEL WALL. ROUTE ALL CONDUITS ON THE INTERIOR OF THE COOLER PANEL WALL. DROP CONDUITS FROM STRUCTURE AND MINIMIZE VISIBILITY OF ALL CONDUIT ROUTING FROM SALES FLOOR. COORDINATE CONDUIT ROUTING IN FIELD.

31 PROVIDE RECEPTACLE FOR DIGITAL DISPLAY SCREEN AT SAME ELEVATION AS MOUNTING BRACKET. COORDINATE INSTALLATION WITH DISPLAY MONITOR MOUNTING BRACKETS.

35 PROVIDE CONNECTION TO ASSOCIATED CONDENSING UNIT ON ROOF. REFER TO MECHANICAL SCHEDULE FOR ADDITIONAL INFORMATION.

36 PROVIDE SPECIAL RECEPTACLE HUBBELL #USB20XGY, DUPLEX RECEPTACLE WITH (2) USB CHARGING RECEPTACLES. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN.

38 PROVIDE DEVICE AND CIRCUITRY FOR FUTURE CASE LOCATIONS.

39 PROVIDE FLUSH MOUNT FLOOR BOX WIREMOLD #880C52-1 WITH COVER PLATE AND DEVICE TO MATCH EQUIPMENT. PROVIDE ALL NECESSARY ACCESSORIES FOR A COMPLETE FINISHED ASSEMBLY. ENSURE FLOOR BOX IS ADJUSTED PROPERLY AND IS FLUSH WITH THE FINISHED FLOOR. PROVIDE WITH BRUSHED ALUMINUM FINISH. ROUTE POWER CONDUIT BELOW SLAB, UP NEARBY WALL TO TRUSS SPACE. COORDINATE CONDUIT ROUTING IN FIELD.

2a

40 SIEMENS "RIO" PANEL FOR FRIENDS OF 365. COORDNIATE FINAL LOCATION WITH FRIENDS OF 365 PRIOR TO ROUGH-IN. REFER TO EM300.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No.
62911019

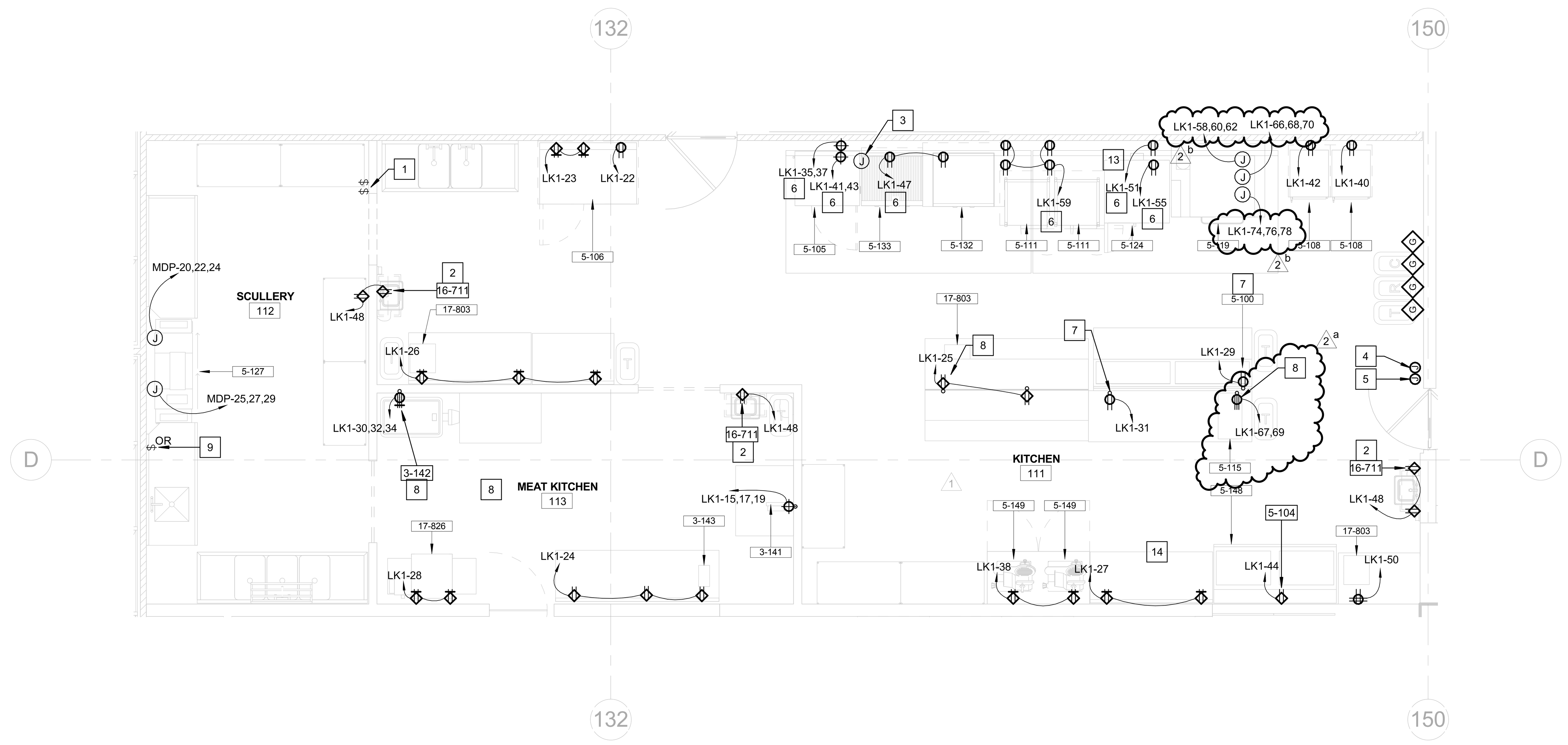
Professional Seal

05/21/2018

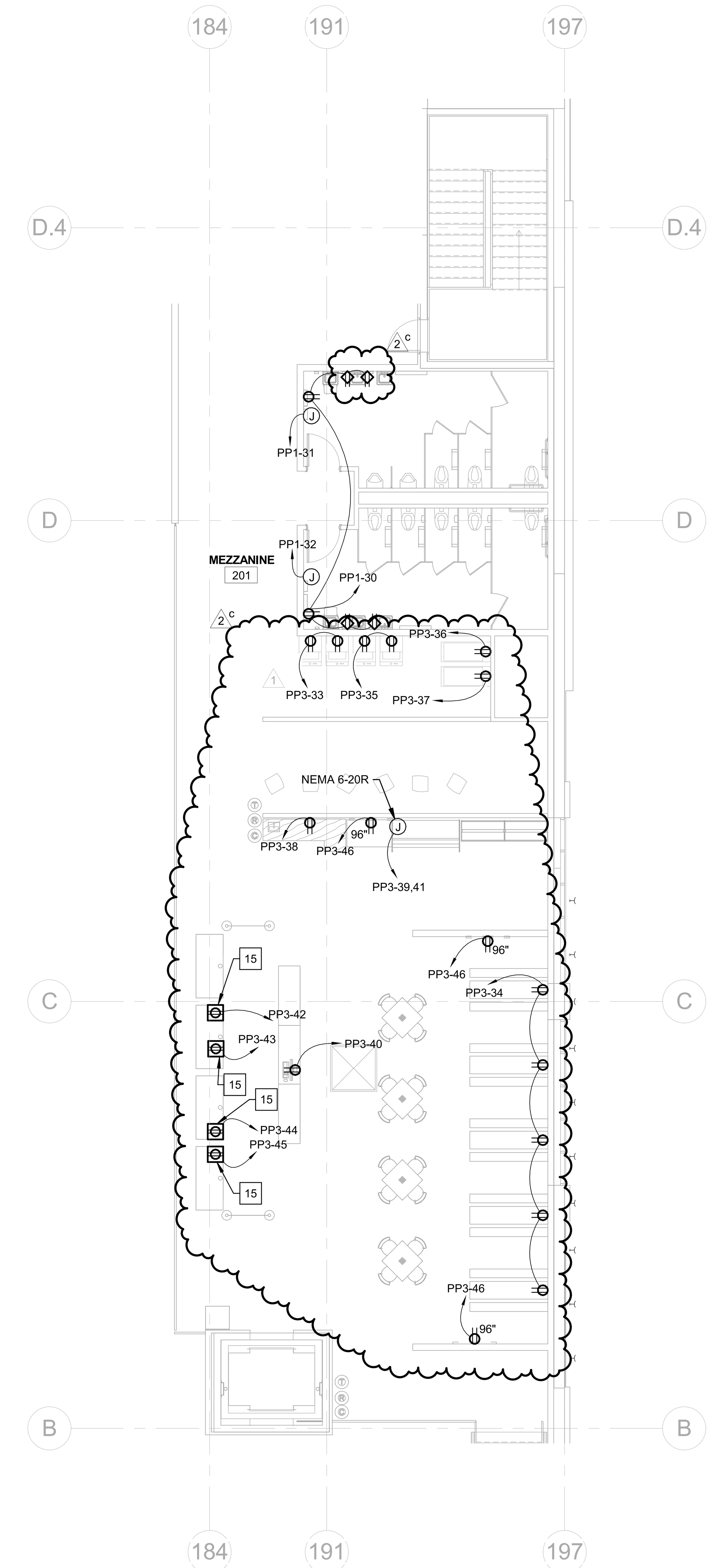
Sheet Title
ELECTRICAL POWER PLAN

Sheet No.
E200

BRR Original printed on recycled paper



1 ENLARGED POWER PLAN - KITCHEN
1/4" = 1'-0"



2 ELECTRICAL POWER PLAN - MEZZANINE
1/8" = 1'-0"

ENLARGED ELECTRICAL POWER PLAN NOTES

1 PROVIDE WEATHERPROOF NEMA 3R FLUSH-MOUNTED MOTOR RATED TOGGLE SWITCH FOR DISHWASHER AND BOOSTER HEATER DISCONNECT. RATINGS AS INDICATED. LABEL SWITCH "DISHWASHER" AND "BOOSTER HEATER"
2 RECEPTACLE FOR BUG ZAPPER. CONFIRM LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL ELEVATIONS AND MANUFACTURER RECOMMENDATIONS PRIOR TO ROUGH-IN.
3 SHUT-OFF GAS VALVE FOR EQUIPMENT UNDER KITCHEN HOOD. CONNECT SOLENOID TO HOOD CONTROLLER PER HOOD EQUIPMENT PLANS WITHIN MECHANICAL SET. COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
4 ROOM TEMPERATURE SENSOR FOR KITCHEN HOOD. PROVIDE BACKBOX, 3/4" CONDUIT, AND WIRING FOR SENSOR. CONNECT PER HOOD EQUIPMENT PLANS WITHIN MECHANICAL SET.
5 REMOTE MANUAL PULL STATION. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR AND LOCAL AHJ PRIOR TO ROUGH-IN.
6 PROVIDE A BLANK FACE GFCI DEVICE AHEAD OF DUPLEX RECEPTACLES AT EQUIPMENT TO PROVIDE GFCI PROTECTION ON CIRCUIT AS REQUIRED BY NEC. PROVIDE 'GFCI PROTECTED' LABEL ON DUPLEX RECEPTACLE AT EQUIPMENT.
7 CORD DROP FROM CEILING WITH RECEPTACLE. PROVIDE "GFCI PROTECTED" LABEL ON COVERPLATE. CORD TO DROP NEAR FLOOR. COORDINATE LENGTH WITH ARCHITECTURAL RCP. REFER TO DETAIL 4 SHEET E210.
8 CORD DROP FROM CEILING WITH RECEPTACLE. CORD LENGTH TO EXTEND TO JUST BELOW WORK TABLE. COORDINATE CORD LENGTH WITH ARCHITECTURAL RCP. REFER TO DETAIL 4 SHEET E210.
9 OVERRIDE SWITCH FOR SCULLERY EXHAUST FAN. LABEL SWITCH 'SCULLERY EXHAUST FAN OVERRIDE'. REFER TO MECHANICAL PLANS FOR ADDTIONAL INFORMATION.
13 FOR POWER RECEPTACLES ON THIS COOLER WALL, ROUTE CONDUITS DOWN IN FUR-OUT WALL AND RUN CONDUITS THROUGH WALL INTO BACK OF DEVICE BOXES. DRILL WALL AS REQUIRED FOR PASSAGE OF CONDUITS AND SEAL AROUND CONDUIT PENETRATIONS.
14 ROUTE CONDUITS AND POWER CABLES DOWN CHASE FOR DEVICES UNDER WINDOW.
15 PROVIDE FLUSH MOUNT FLOOR BOX WIREMOLD #880C52-1 WITH COVER PLATE AND DEVICE TO MATCH EQUIPMENT. PROVIDE ALL NECESSARY ACCESSORIES FOR A COMPLETE FINISHED ASSEMBLY. ENSURE FLOOR BOX IS ADJUSTED PROPERLY AND IS FLUSH WITH THE FINISHED FLOOR. PROVIDE WITH BRUSHED ALUMINUM FINISH. ROUTE POWER CONDUIT BELOW SLAB, UP NEARBY WALL TO TRUSS SPACE. COORDINATE CONDUIT ROUTING IN FIELD.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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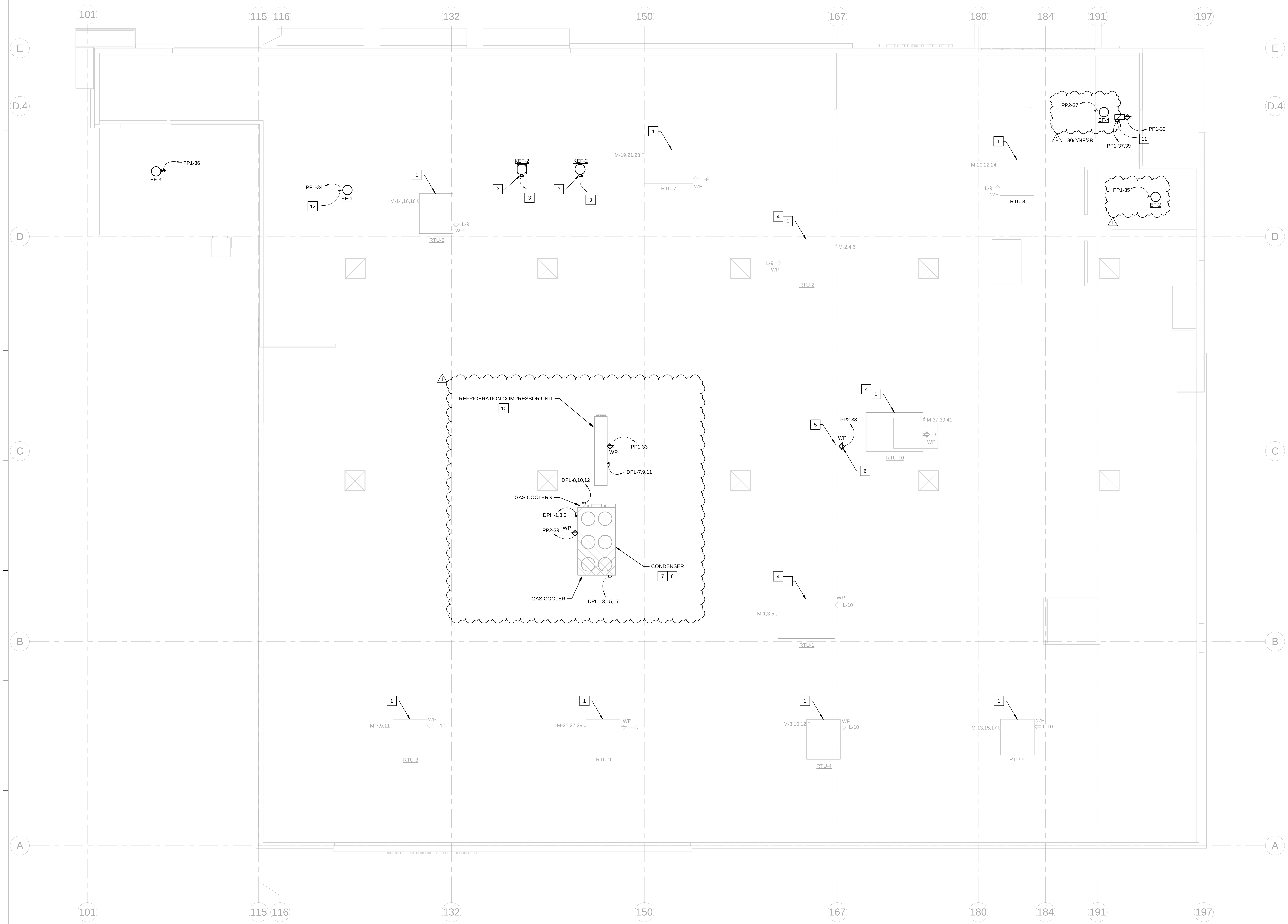
Professional Seal

05/21/2018

Sheet Title
ELECTRICAL POWER ENLARGED PLANS

Sheet No.
E201

5/22/2018 12:12:19 PM



1 ELECTRICAL ROOF POWER PLAN

1/8" = 1'-0"

GENERAL ELECTRICAL ROOF POWER NOTES:

1. REFER TO GENERAL ELECTRICAL POWER NOTES ON SHEET E200.
2. ROUTE ALL ELECTRICAL CONDUITS THROUGH EQUIPMENT CURBS IN ORDER TO AVOID PENETRATIONS THROUGH ROOF MEMBRANE WHERE POSSIBLE.
3. VERIFY EXACT LOCATION OF HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO CONDUIT ROUGH IN.
4. ALL EQUIPMENT, DEVICES, RECEPTACLES, DISCONNECT SWITCHES, JUNCTION BOXES, CONNECTIONS ETC ON THE ROOF SHALL BE WEATHERPROOF.
5. ALL CONDUIT SHALL BE RUN CONCEALED BELOW ROOF. PROVIDE WATERTIGHT PITCH POCKETS AS REQUIRED.
6. PROVIDE WEATHERPROOF 'IN-USE' COVERS FOR ALL EXPOSED ROOFTOP RECEPTACLES.
7. INSTALL UNIT MOUNTED DISCONNECTS AS TO NOT OBSTRUCT UNIT ACCESS AND NAMEPLATE.

ELECTRICAL ROOF POWER PLAN NOTES

1 EXISTING ROOF TOP UNIT BY LANDLORD. UNIT PROVIDED WITH FACTORY DISCONNECT SWITCH AND WATERPROOF/WEATHER RESISTANT GFCI RECEPTACLE. LANDLORD TO PROVIDE ALL CIRCUITRY FOR ROOF TOP UNIT AND RECEPTACLES BACK TO EXISTING LANDLORD PROVIDED PANELS.

2 FACTORY PROVIDED DISCONNECT SWITCH. CONNECT TO PANEL AS INDICATED. REFER TO MECHANICAL SCHEDULES FOR ADDITIONAL INFORMATION.

3 ROUTE CIRCUIT VIA HOOD CONTROL PANEL 'HCP' IN KITCHEN. REFER TO SHEET E201 AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

4 SIEMENS POWER MONITORING METER. METER TO BE FURNISHED AND INSTALLED BY SIEMENS VIA EMS CONTRACTOR. CT'S TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN FIELD. COORDINATE LOW VOLTAGE WIRING SPECIFICATIONS WITH EMS DRAWINGS AND FINAL LOCATION WITH EMS CONTRACTOR.

5 LANDLORD PROVIDED CONDUIT FOR SATELLITE.

6 GFCI DUPLEX RECEPTACLE FOR SATELLITE DE-ICER. VERIFY LOCATION IN FIELD.

7 REFRIGERATION SYSTEM CONDENSER. REFER TO ONE-LINE DIAGRAM SHEET E400 FOR ADDITIONAL INFORMATION.COORDINATE LOCATION WITH REFRIGERATION CONTRACTOR.

8 PROVIDE CONNECTION TO OWNER FURNISHED REFRIGERATION CONDENSERS INCLUDING ALL LINE VOLTAGE CONTROL WIRING AND DISCONNECTS. PROVIDE CIRCUITRY FROM VFD TO FACTORY INSTALLED DISCONNECT FOR POWER CONNECTIONS BETWEEN REMOTE CONDENSING UNIT AND THEIR RESPECTIVE VFD LOCATED NEAR THE RACK. PROVIDE AN ADDITIONAL SET OF CIRCUITRY FROM CONSTANT 480V POWER PRIOR TO VFD TO E.C. PROVIDED 3P DISCONNECT FOR VFD BYPASS CONTROL. COORDINATE FINAL CONNECTIONS AND LOCATION WITH REFRIGERATION CONTRACTOR.

10 CONTRACTOR TO ROUTE CONTACTOR COIL LEG FROM HILL PHOENIX PROVIDED PURGE FAN/DAMPER CONTACTORS TO MICRO THERMO BACKBONE PANEL RELAY FOR REFRIGERANT LEAK OVERRIDE CONTROL.

11 INTERLOCK CU-1 WITH FC-1. REFER TO SHEET E200 FOR LOCATION OF FC-1 AND MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

12 INERLOCK EXHAUST FAN WITH LIGHTING OCCUPANCY SENSOR IN SCULLERY. DISHWASHER EXHAUST FAN TO TURN 'ON' WITH LIGHTING AND TO CONTINUE OPERATING 30 MINUTES AFTER EQUIPMENT HAS ENDED OPERATION. COORDINATE ALL CONTROLS WITH MECHANICAL CONTRACTOR AND SEQUENCE OF OPERATION.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET
1	03/06/18	ADDENDUM 1

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG

Checked By:

Drawn by: KJG

Document date: 01/26/18

Template date:

Project No. 62911019

Professional Seal

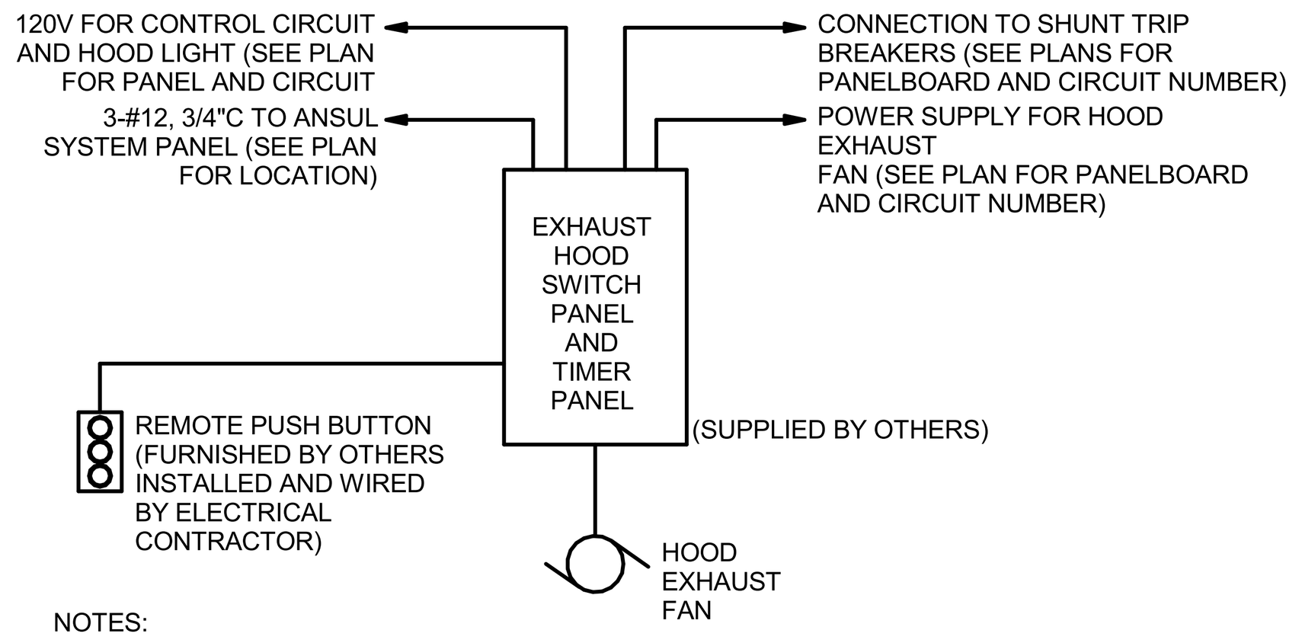
03/06/2018

Sheet Title

ELECTRICAL ROOF POWER PLAN

Sheet No.

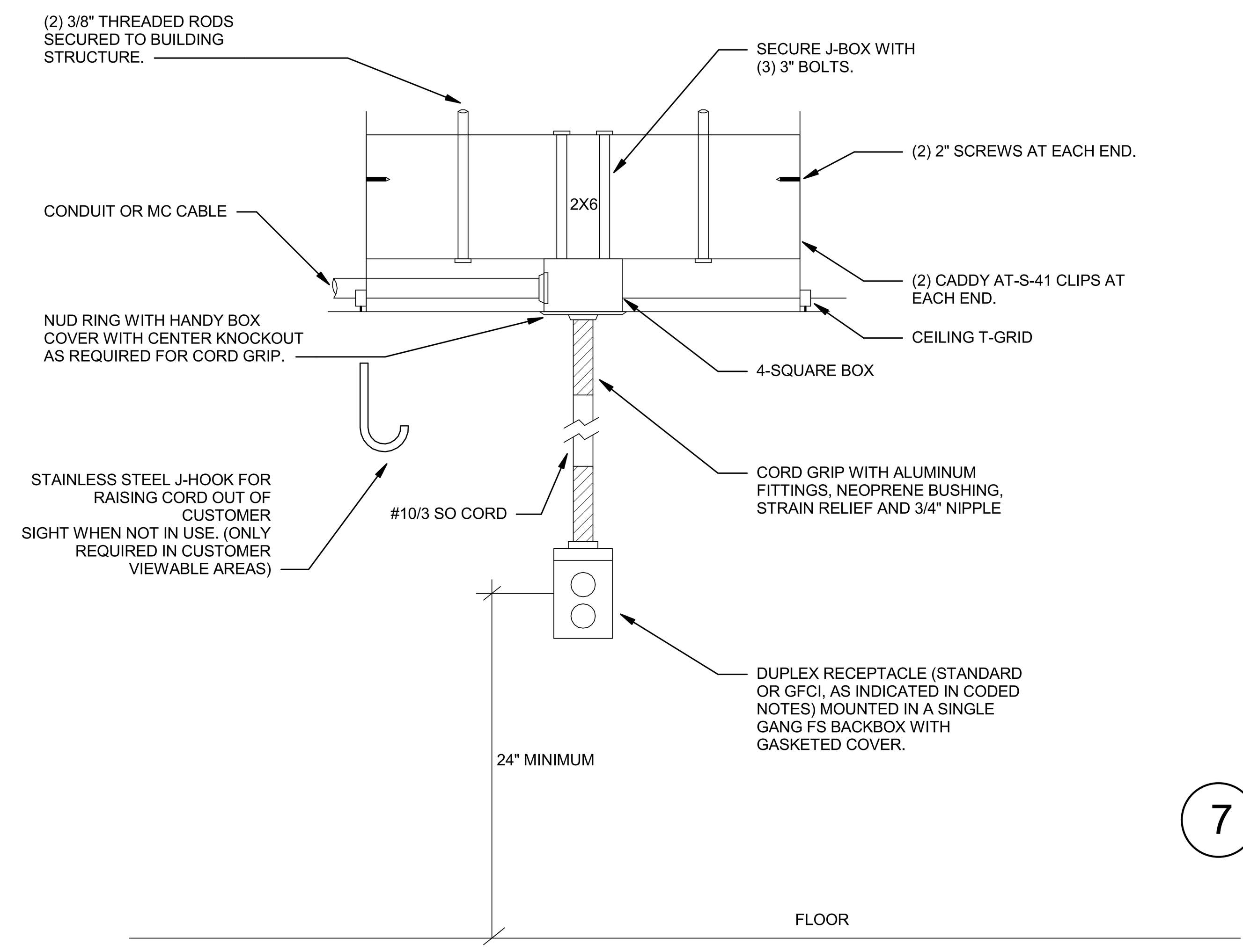
E202



NOTES:

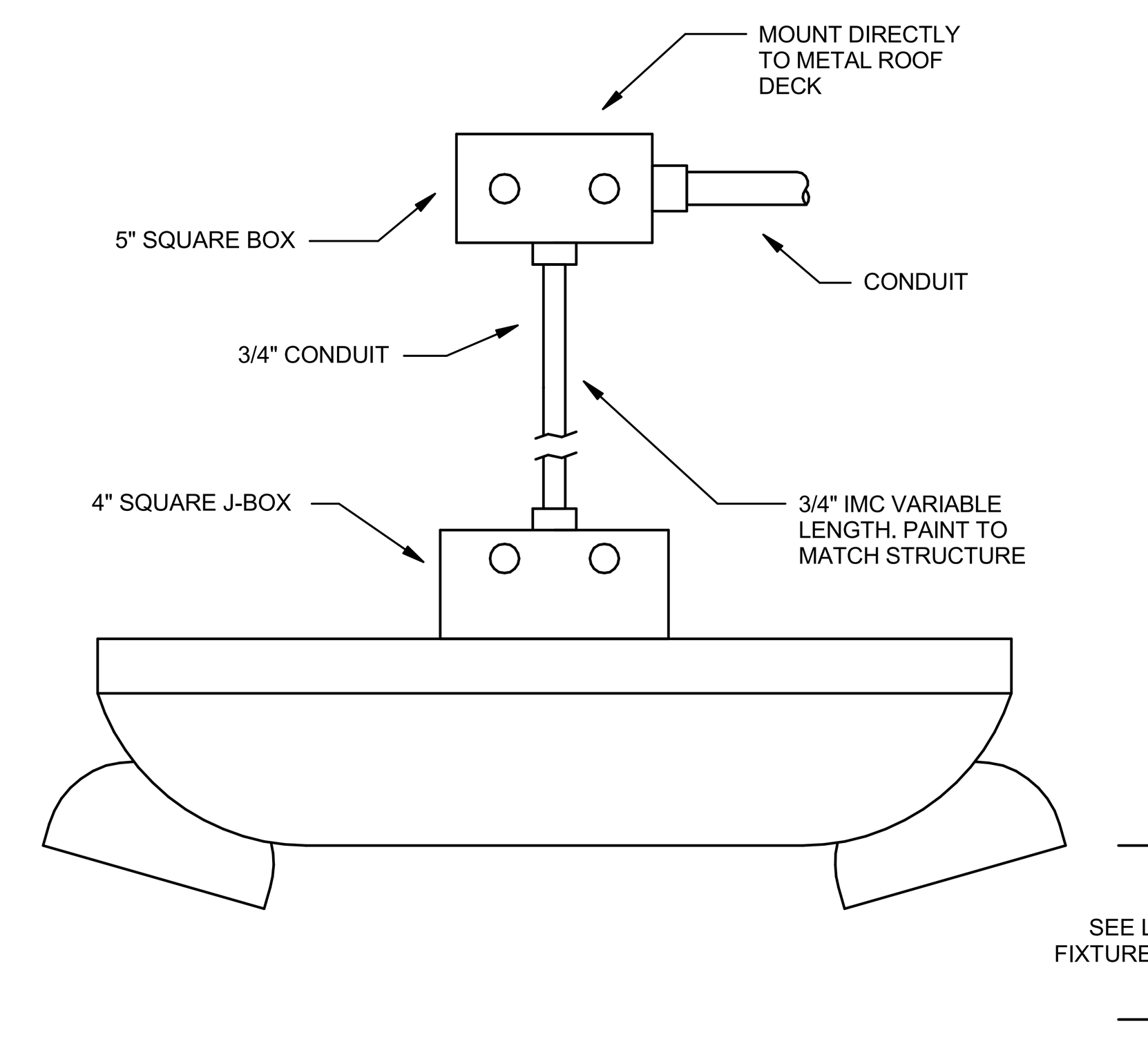
1. PROVIDE POWER WIRING FOR FUEL SOURCE SHUT OFF OF COOKING EQUIPMENT WHERE REQUIRED PER NFPA AND NEC.
2. HOODS AND ALL ASSOCIATED DEVICES AND WIRING SHALL BE DONE IN ACCORDANCE WITH NFPA AND NEC.
3. WHERE REQUIRED, FURNISH AND INSTALL CONTACTOR WITH ALL NECESSARY CONTROLS AND WIRING FOR HOODS, ANSUL SYSTEMS AND EXHAUST FANS.
4. EXHAUST FANS IN ALL HOODS TO BE INTERCONNECTED WITH ANSUL SYSTEM SUCH THAT UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM FANS SHALL REMAIN IN OPERATION.
5. REMOTE PUSH-BUTTON STATION WITH REMOTE CONTACTOR TO BE FIELD LOCATED.
6. PROVIDE ALARM CONNECTION TO FACP FOR ANSUL SYSTEM DUMPED CONDITION.

1 EXHAUST HOOD WIRING DETAIL
NTS

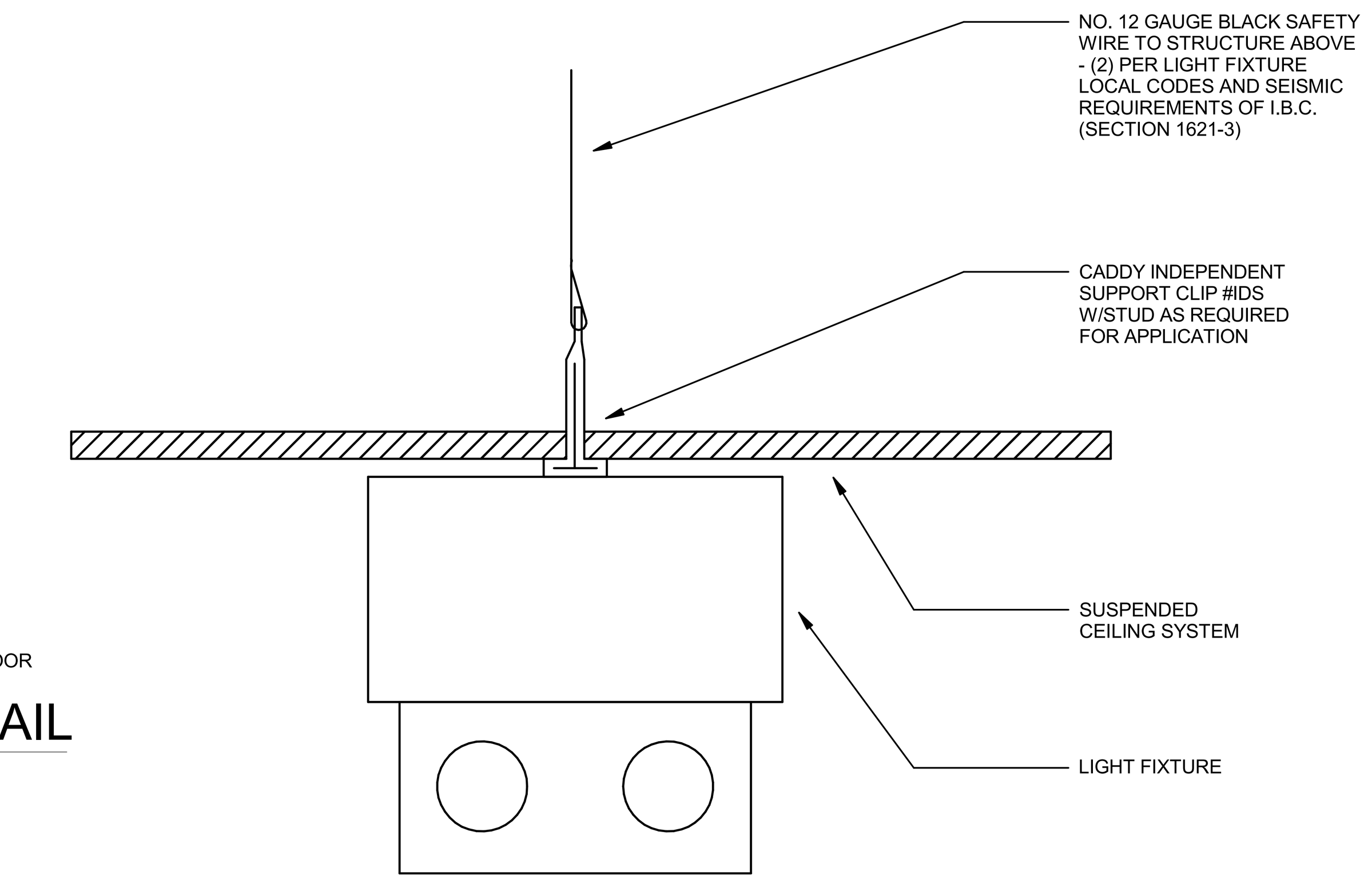


NOTE:
REFER TO ARCHITECTURAL PLANS FOR CEILING HEIGHT (COORDINATE LENGTH)

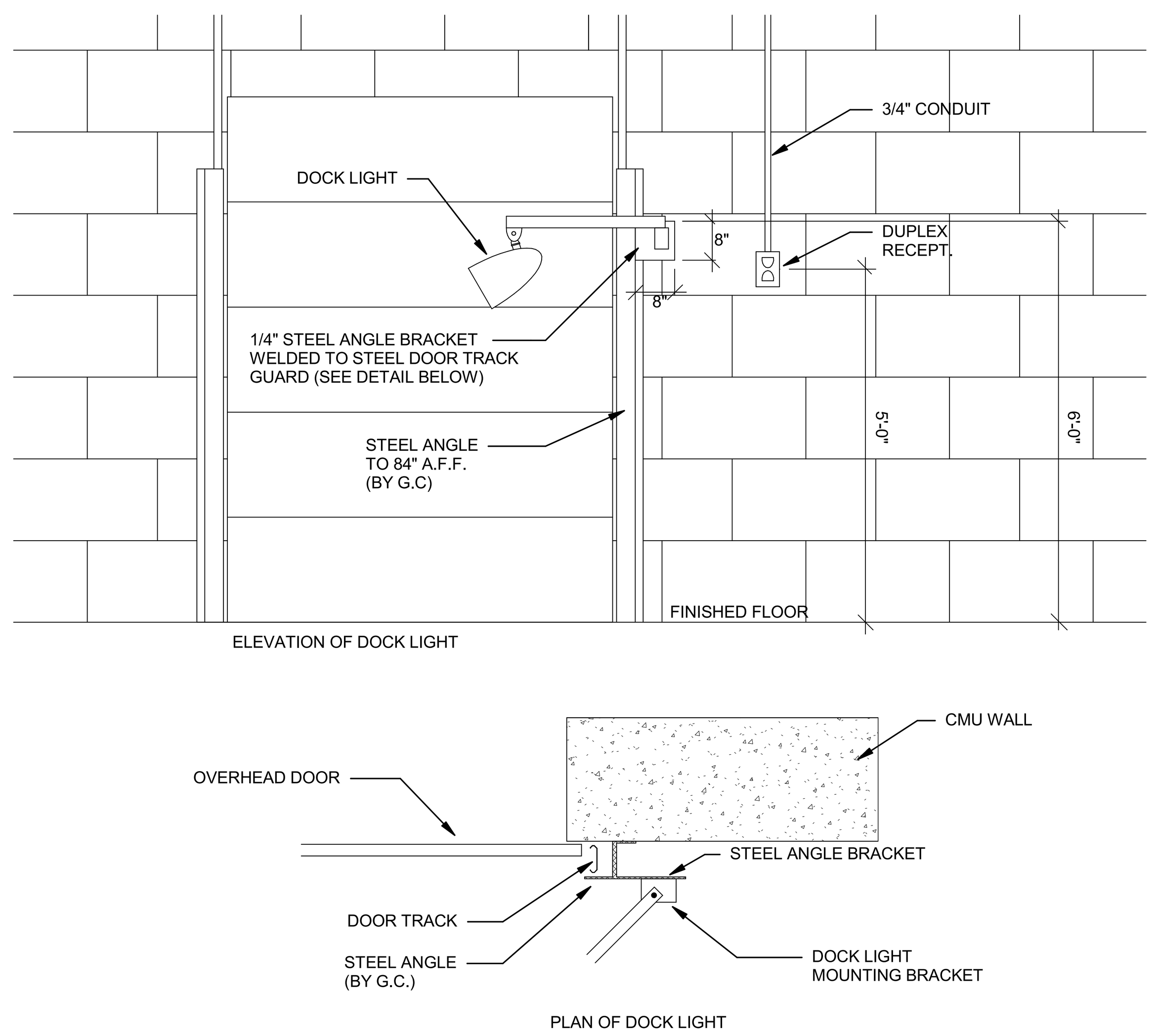
4 SUSPENDED DROP CORD DETAIL
NTS



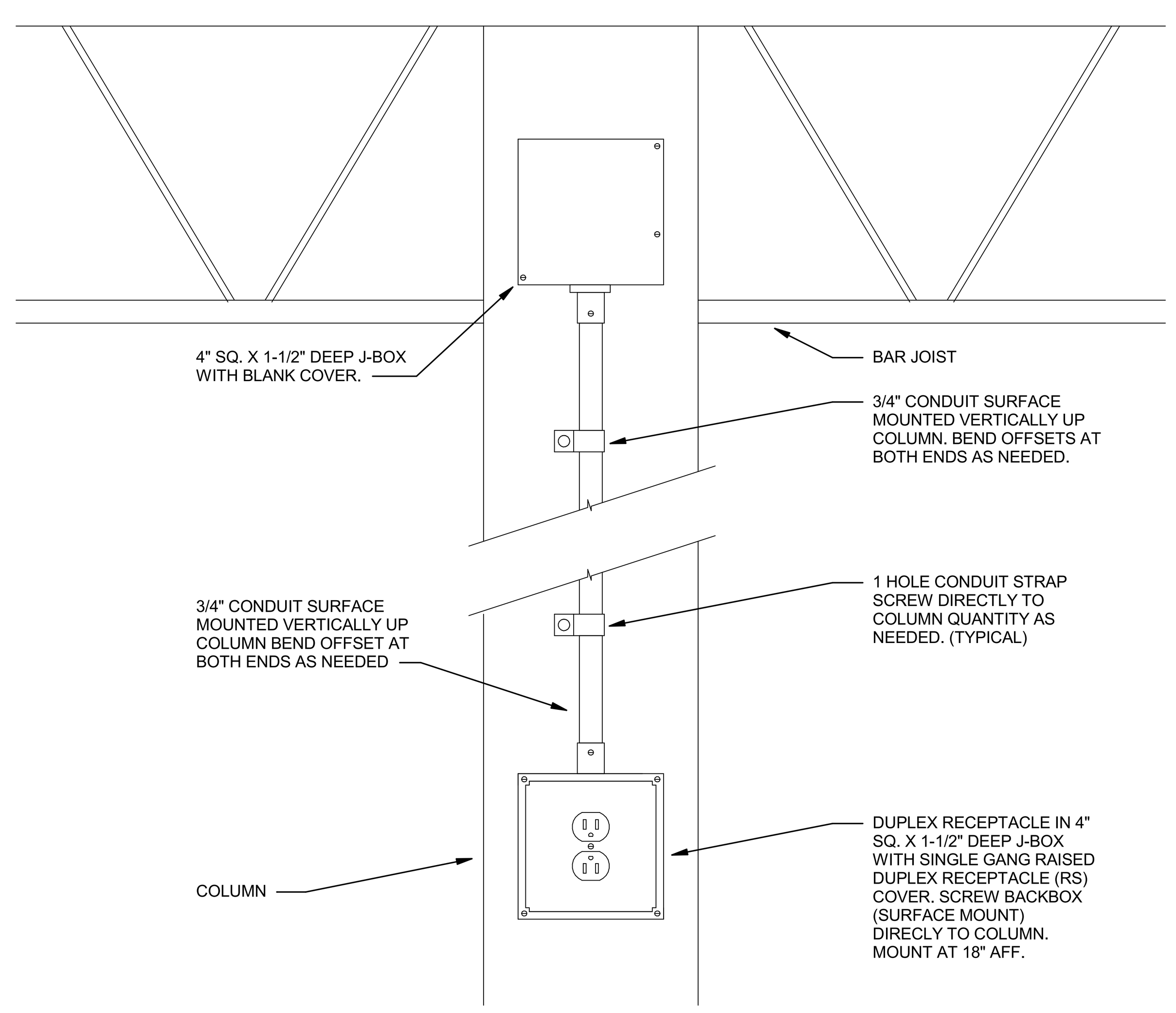
7 EMERGENCY LIGHT PENDANT MOUNTING DETAIL
NTS



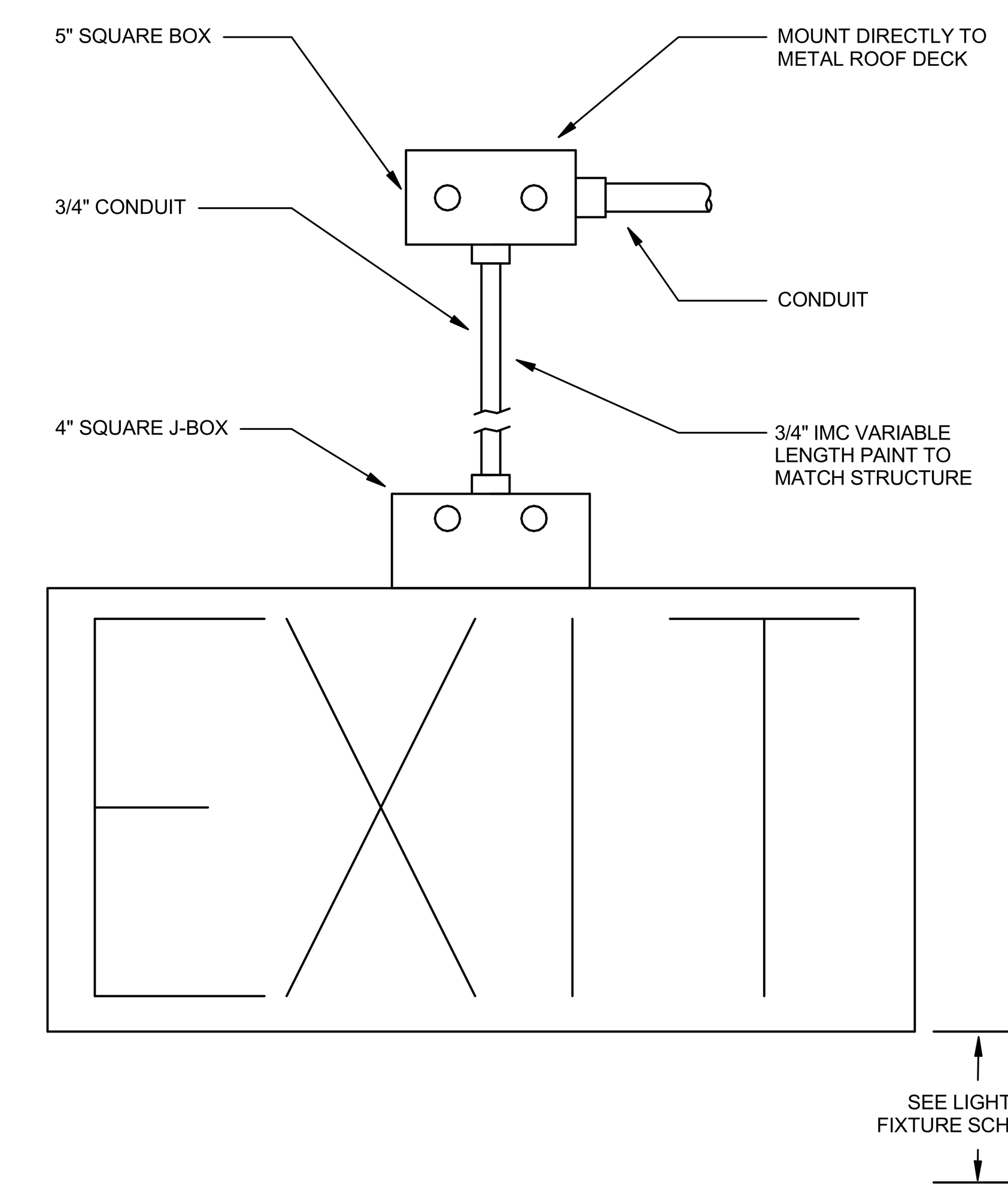
10 STRIP LIGHT DROP DEILING MOUNTING DETAIL
NTS



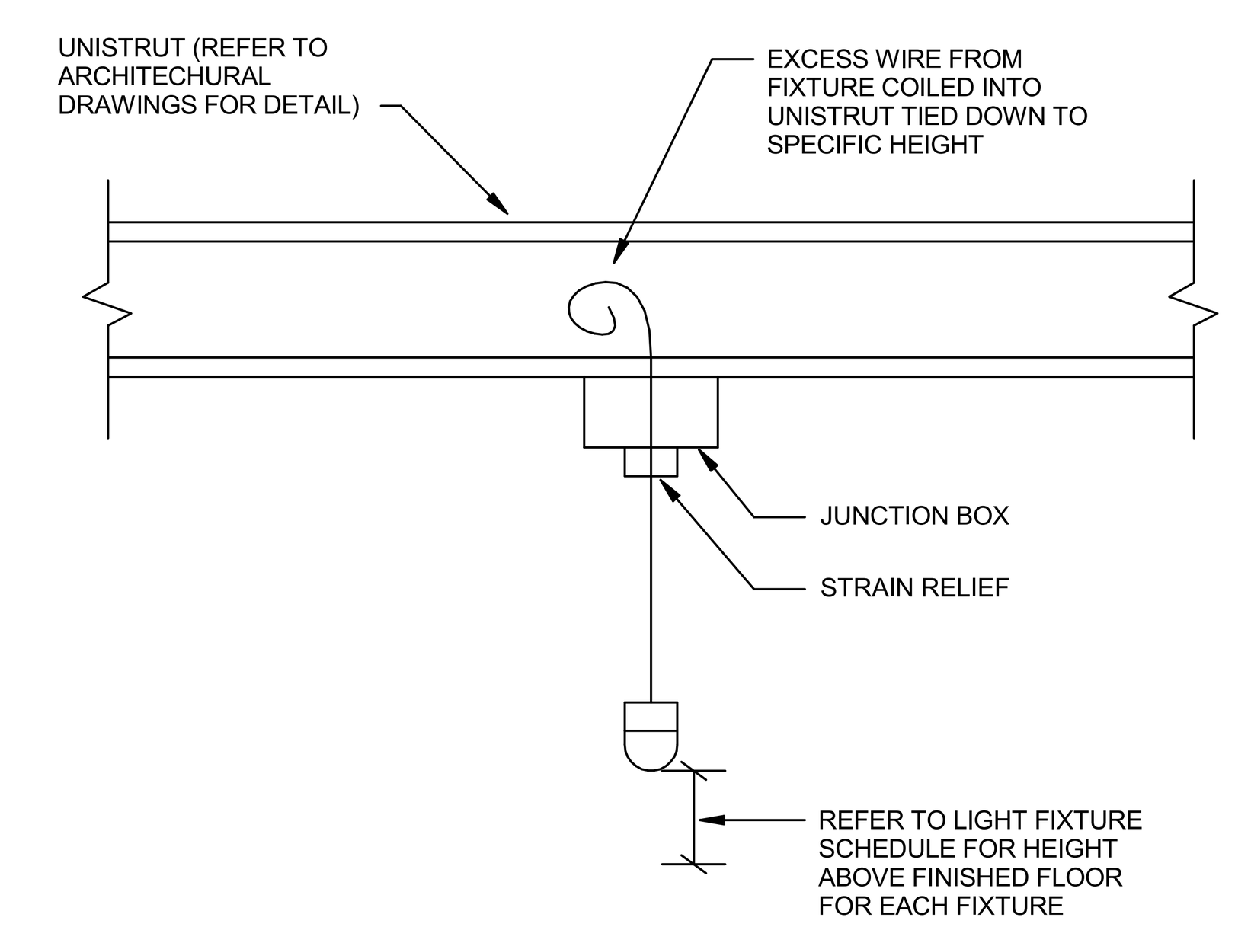
2 DOCK LIGHT DETAIL
NTS



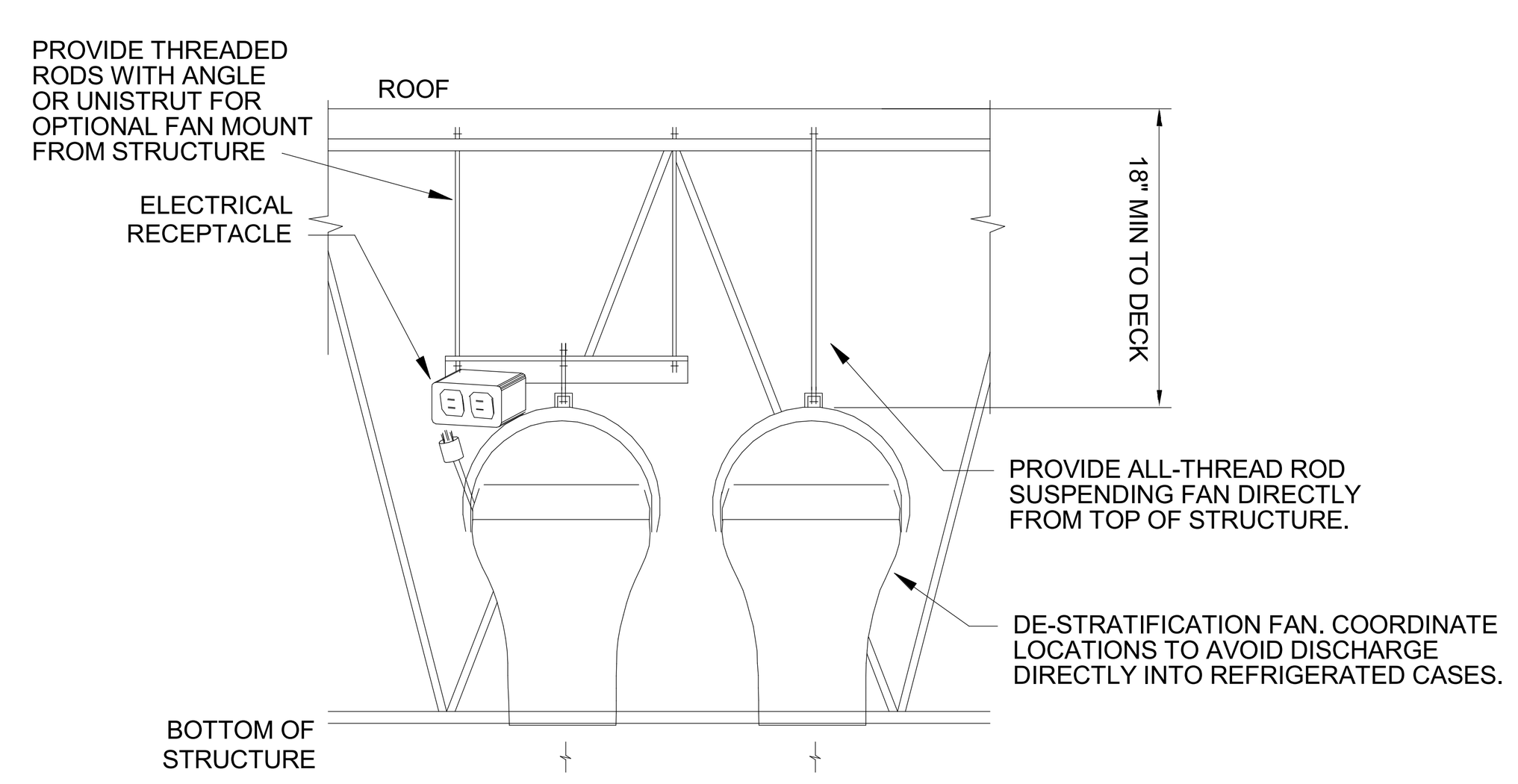
5 CONVENIENCE RECEPTACLE AT COLUMN
NTS



8 EXIT SIGN PENDANT MOUNTING DETAIL
NTS



11 PENDANT FIXTURE MOUNTING DETAIL
NTS



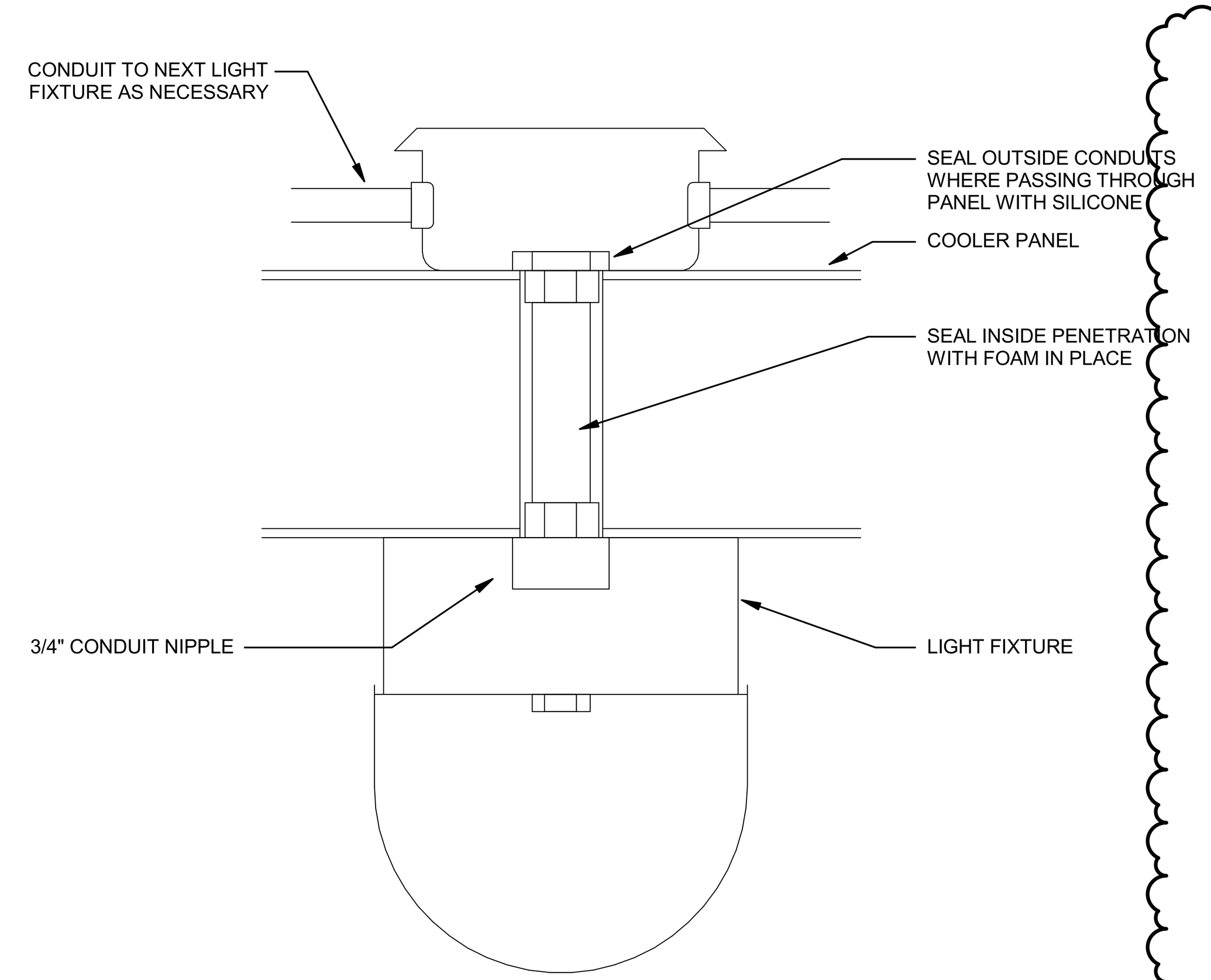
NOTE: REFER TO MANUFACTURERS LITERATURE FOR FAN MOUNTING RECOMMEDATIONS.

DE-STRATIFICATION FAN SCHEDULE

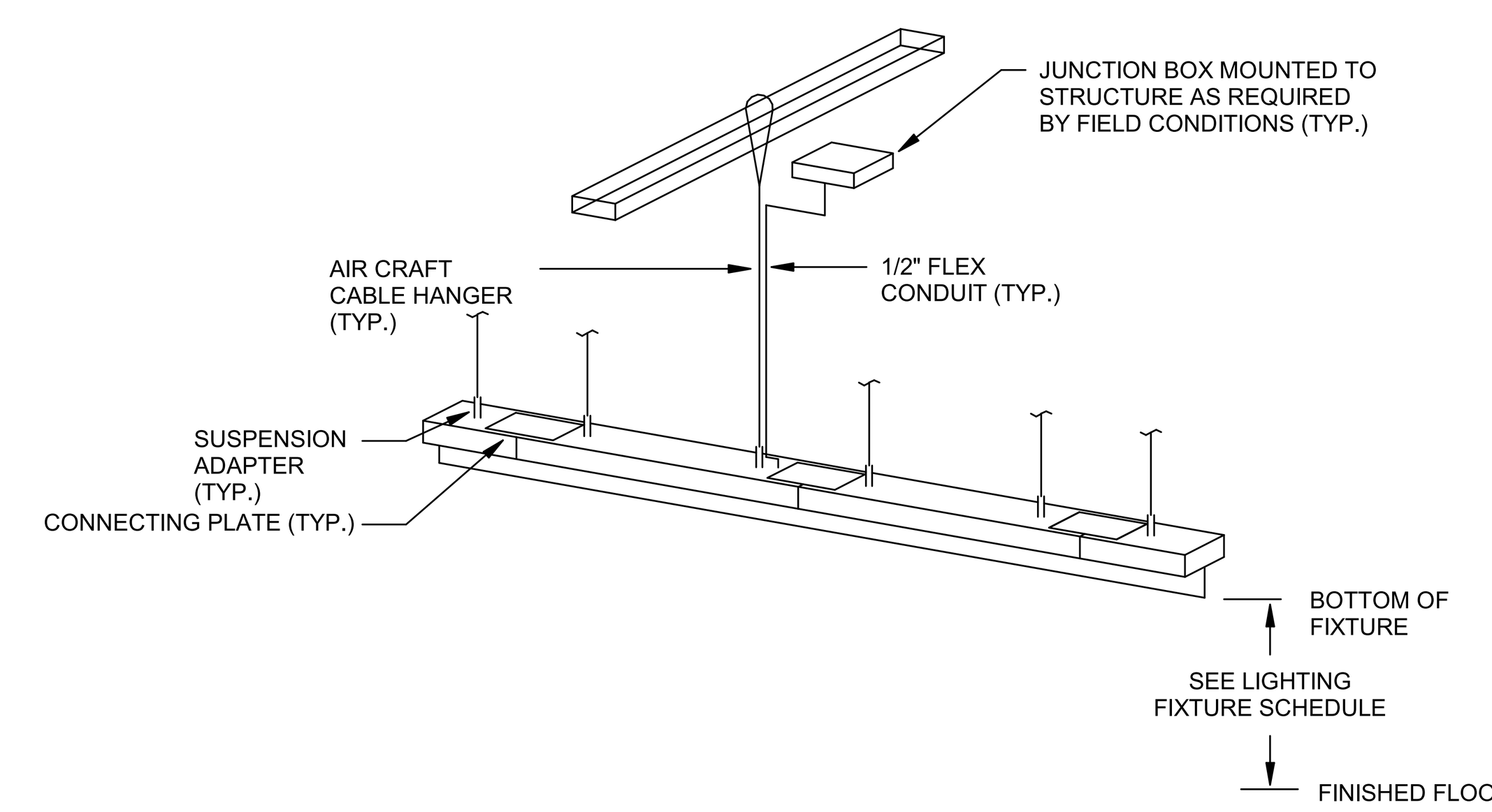
MARK	LOCATION	MANUFACTURER	MODEL	CFM	HP(W)	V/PH/HZ
DF-1	---	AIRIUS - AIR PEAR	A-15-SP-STD-120-W	406	17W	120/1/60

SCHEDULE NOTES:
A. EQUIPMENT FURNISHED AND INSTALLED BY DIVISION 26. (NO EQUALS)
B. SUSPEND UNIT FROM STRUCTURE WITH UNISTRUT AND ALL-THREAD RODS PER MANUFACTURERS INSTRUCTION.
C. COORDINATE LOCATIONS PER MANUFACTURER'S RECOMMENDATIONS TO AVOID DISCHARGE FLOW INTO REFRIGERATED CASES.
D. COORDINATE LOCATIONS WITH LIGHTING, MECHANICAL, REFRIGERATION, STRUCTURAL, AND DÉCOR FOR FINAL PLACEMENT.
E. WHITE FINISH
F. UNIT FURNISHED WITH FACTORY INSTALLED CORD AND PLUG.

3 SALES FLOOR DESTRATIFICATION FAN DETAIL
NTS



6 COOLER/FREEZER PENETRATION
NTS



NOTES:
1. ALL ROWS OF LIGHT FIXTURES SHALL BE STRAIGHT AND LEVEL PRIOR TO OPENING OF STORE.
2. FIXTURE AS SPECIFIED
3. CONTRACTOR TO PROVIDE ADDITIONAL SUPPORT AS NEEDED TO ENSURE FIXTURES ARE STRAIGHT AND LEVEL.
4. PROVIDE AND INSTALL ALL NECESSARY COMPONENTS TO ENSURE A COMPLETE BRACE IN ACCORDANCE WITH CALIFORNIA SEISMIC STANDARDS.
5. CONTRACTOR SHALL SUPPORT FIXTURE DIRECTLY FROM STRUCTURE (TRUSSES OR BEAMS) WHERE STRUCTURAL ELEMENTS FALLS WITHIN FIXTURE PLAN.

9 SALES FIXTURE MOUNTING DETAIL
NTS

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

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www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No. 62911019

Professional Seal

05/21/2018

Sheet Title
ELECTRICAL POWER SCHEDULES AND DETAILS

Sheet No. E210

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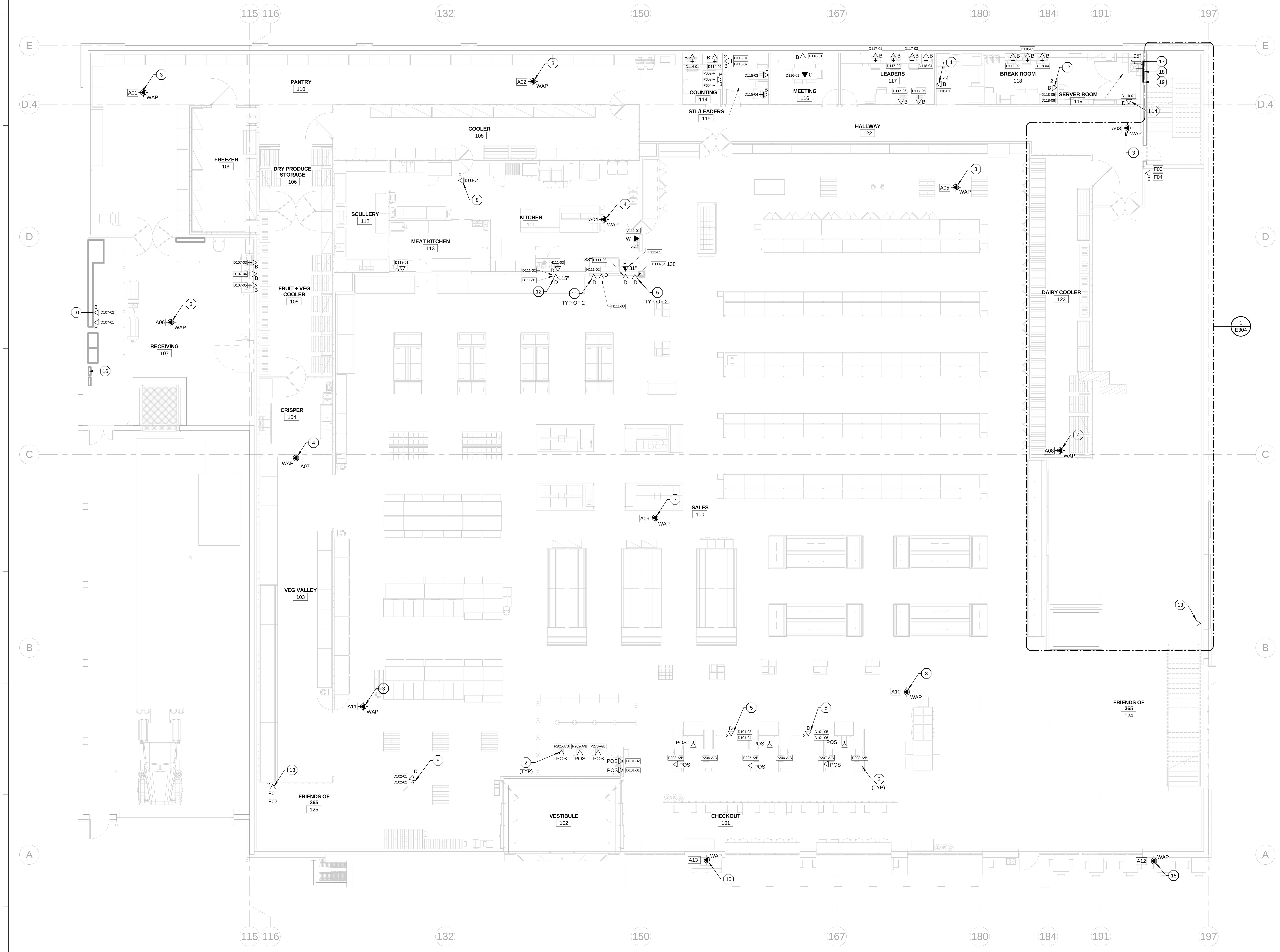

1 ELECTRICAL SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

GENERAL ENERGY MANAGEMENT NOTES:

1. WORK SHOWN ON THIS SHEET IS SEPARATE FROM ENERGY MANGEMENT SCOPE OF WORK. REFER TO "EM" SERIES SHEETS FOR ADDITIONAL INFORMATION.

GENERAL SPECIAL SYSTEMS NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED DEVICES SHOWN ON THIS SHEET.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH ARCHITECTURAL, FIRE PROTECTION, PLUMBING & HVAC PLANS PRIOR TO ROUGH-IN TO AVOID ANY CONFLICTS OF ROUTING OR PLACEMENT.
3. SEE SYMBOLS LEGEND ON SHEET E000.
4. SEE TECHNOLOGY FACEPLATE DETAILS AND SCHEDULE ON SHEET E310 FOR MORE TECHNOLOGY DEVICE INFORMATION.
5. ALL TECHNOLOGY CABLING AND DEVICES SHALL BE INSTALLED IN A MANNER THAT CONFORMS WITH ALL CODES AND STANDARDS AS SET FORTH BY BICSI, NEC, TIA AND OTHER WIRING STANDARDS.
6. CLOSELY COORDINATE AND CONFIRM INSTALLATION OF ALL VOICE/DATA AND OTHER TECHNOLOGY EQUIPMENT WITH OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO COMMENCING WORK. THIS INCLUDES LAYOUT OF NETWORK CLOSET.
7. ALL CAT6 CABLES INSTALLED BY OTHER TRADES MUST BE OF DIFFERENT COLORS FROM THE CABLES SPECIFIED HERE AND ON SHEET E310.
8. LABEL EACH CABLE WITHIN 12" OF TERMINATION AT FACEPLATE AND AT PATCH PANEL. REFER TO SHEET E310 FOR LABELING INFORMATION.
9. COORDINATE WITH ARCHITECT TO PROVIDE PLYWOOD WALL BACKBOARD IN NETWORK CLOSET WHERE SHOWN ON DRAWINGS. BACKBOARD SHALL BE PAINTED AS REQUIRED PRIOR TO INSTALLATION ON WALL. PROVIDE 4-SCREW D-RINGS ON THE WALL AS REQUIRED TO SUPPORT ALL CABLES.
10. APPROPRIATELY SIZED J-HOOKS PER MANUFACTURER MINIMUM FOR ALL NEW CABLING AND PATHWAYS. DO NOT SHARE J-HOOK PATHWAYS FOR TECHNOLOGY HORIZONTAL CABLING VOICE/DATA, BACKBONE AND COAXIAL CABLES WITH OTHER LOW VOLTAGE SYSTEMS.
11. WIRELESS ACCESS POINTS (WAP) ARE TENANT FURNISHED AND CONTRACTOR INSTALLED. CONFIRM FINAL LOCATIONS AND REQUIREMENTS WITH WAP VENDOR PRIOR TO INSTALLATION. WAP VENDOR CONTACT: TBDCOORDINATE THE LOCATION OF THE VOLUME CONTROLS WITH 365 PROJECT MANAGER TO ELIMINATE CONFLICTS.
12. ALL DEVICES IN OFFICES AND BREAKROOM SHALL BE MOUNTED 8" ABOVE DESK SURFACE. FIELD COORDINATE WITH PROVIDED MILLWORK.

ELECTRICAL SPECIAL SYSTEMS PLAN NOTES

1 DATA DEVICE LOCATION FOR TIME CLOCK.
2 MOUNT DATA DEVICE WITHIN POS CASEWORK.
3 LEAVE A 15 FOOT SERVICE LOOP IN CABLING FOR WAP'S FOR ADJUSTMENTS AND TUNING. NEATLY COIL LOOPS AT WAP'S. PENDANT MOUNT WAP IN AREAS WITH OPEN CEILINGS AT 15'-0" AFF. MOUNT FROM ¾" RIGID CONDUIT STEM SECURED TO BUILDING STRUCTURE BY A 4" SQUARE JUNCTION BOX WITH ¾" BALL SWIVEL COVER RATED FOR LOAD OF DEVICE. MOUNT DATA OUTLET ADJACENT TO JUNCTION BOX.
LEAVE A 15 FOOT SERVICE LOOP IN CABLING FOR WAP'S FOR ADJUSTMENTS AND TUNING. NEATLY COIL LOOPS AT WAP'S. PENDANT MOUNT WAP IN AREAS WITH OPEN CEILINGS AT 15'-0" AFF. MOUNT FROM ¾" RIGID CONDUIT STEM SECURED TO BUILDING STRUCTURE BY A 4" SQUARE JUNCTION BOX WITH ¾" BALL SWIVEL COVER RATED FOR LOAD OF DEVICE. MOUNT DATA OUTLET ADJACENT TO JUNCTION BOX.
4 WEATHERIZED MERAKU MR72. MOUNT ACCESS POINT ON COOLER INTERIOR WALL. DRY FIT WITH ANTENNAS CONNECTED IN VERTICAL ORIENTATION AND TERMINATE TIGHT TO CEILING.
5 PROVIDE DATA OUTLET FOR DIGITAL DISPLAY SCREEN AT SAME ELEVATION AS MOUNTING BRACKET. COORDINATE INSTALLATION WITH DIGITAL DISPLAY SCREEN MOUNTING BRACKETS.
8 PROVIDE (1) CAT6 CABLE FROM KITCHEN HOOD CONTROL PANEL TO DATA NETWORKING RACK FOR NETWORK CONNECTION.
10 DATA OUTLET FOR SIEMENS CONTROLS (LOCATED IN POWERWALL).
11 DATA OUTLET TO BE MOUNTED HORIZONTALLY DIRECTLY BELOW PRINTER ENCLOSURE WITH TOP OF BOX AT 2'-3" AFF.
12 DATA OUTLET FOR DIGITAL DISPLAY SCREEN. CONFIRM LOCATION PRIOR TO ROUGH-IN.
13 365 LV CONTRACTOR TO PROVIDE (2) CAT6 CABLES FROM FRIENDS SPACE TO DEMARC LOCATION AND TERMINATE IN A SURFACE MOUNTED BOX (BISCUIT JACK). TERMINATION ON FRIENDS SIDE AND ALL ADDITIONAL CABLING BY FRIENDS GC.
14 DATA OUTLET FOR SECURITY ALARM PANEL. CONFIRM LOCATION WITH VENDOR PRIOR TO INSTALLATION.
15 WEATHERIZED MERAKU MR72. MOUNT ACCESS POINT ON BUILDING EXTERIOR WALL.TERMINATE TIGHT TO UNDERSIDE OF AWNING.
16 EXISTING FIRE ALARM CONTROL PANEL LOCATION. ALL REQUIRED FIRE ALARM ACCESS PHONE LINES EXISTING TO REMAIN BY LANDLORD.
17 VOICE/NETWORK EQUIPMENT RACK. SEE DETAILS ON SHEET E310.
18 PLYWOOD BACKBOARD. MOUNT QUAD RCEPTACLES FOR TELECOMMUNICATIONS EQUIPMENT TO BACKBOARD. REFER TO SYSTEMS PLANS AND ELEVATIONS FOR MORE INFORMATION.
19 EXISTING (2) 4" CONDUITS FOR TELECOMMUNICATIONS SERVICE ENTRANCE. REFER TO LANDLORD SHELL FOR CONTINUATION.

EXTEND ALL LOW VOLTAGE CONDUITS TO BOTTOM CHORD OF BAR JOIST. ROUTE LOW VOLTAGE CABLE PARALLEL TO BUILDING LINES AT CONSISTENT ELEVATION WHERE POSSIBLE. COORDINATE ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. AVOID ROUTING CABLE THROUGH SKYLIGHTS.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

ALL CONDUITS FOR EMS CONTRACTOR TO BE INSTALLED BY ELECTRICAL CONTRACTOR WITH BUSHINGS AND PULL STRINGS COORDINATE STUB-OUT POINTS WITH EMS CONTRACTOR.

ALL CONDUITS FOR DATA CONTRACTOR TO BE INSTALLED BY ELECTRICAL CONTRACTOR WITH BUSHINGS AND PULL STRINGS COORDINATE STUB-OUT POINTS WITH DATA CONTRACTOR.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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Engineering Consultants
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7330 San Pedro Avenue, Suite 402
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PH - (210) 510-2300 FAX - (210) 510-2319
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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

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365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No. 62911019

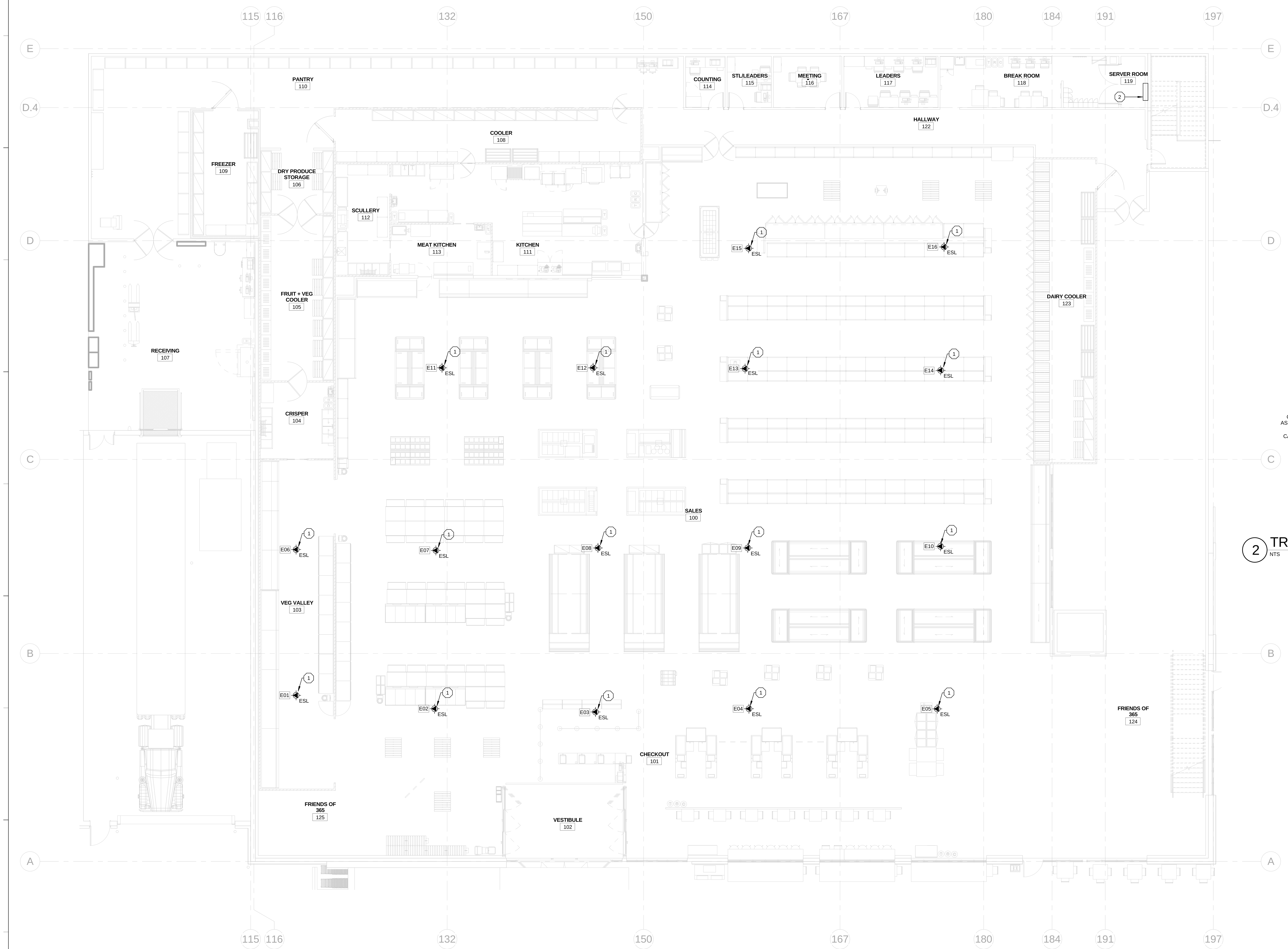
Professional Seal

03/06/2018

Sheet Title
ELECTRICAL SPECIAL SYSTEMS PLAN

Sheet No. E300

3/7/2018 1:07:31 PM



1 ELECTRONIC SHELF LABEL PLAN
1/8" = 1'-0"

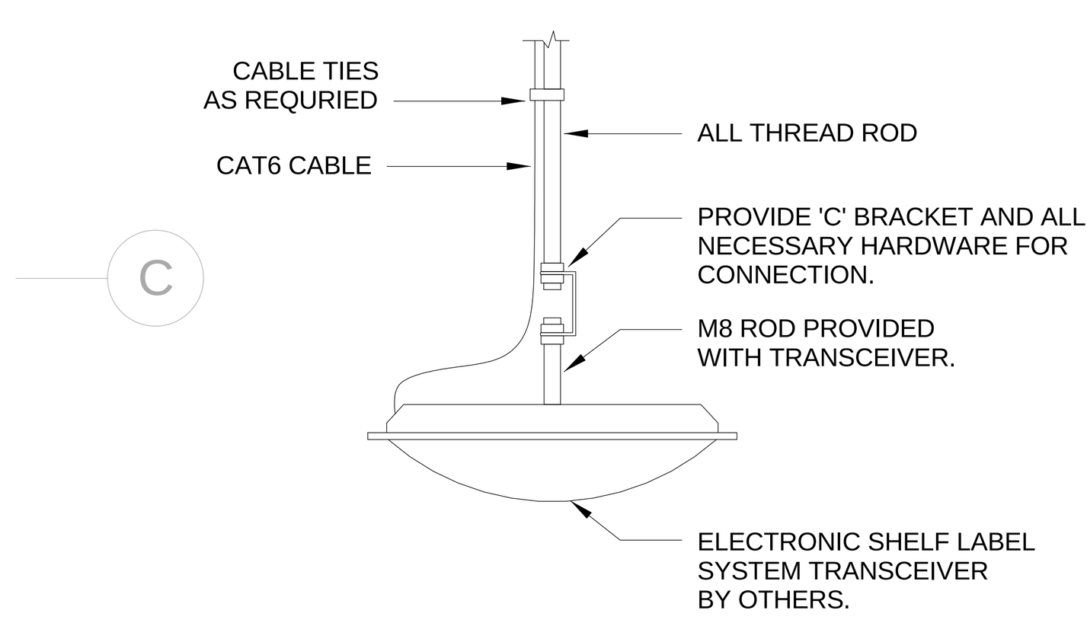
GENERAL SHELF LABEL SYSTEMS NOTES:

1. SEE SHEET E300 FOR ADDITIONAL GENERAL NOTES.
2. ALL CABLING FOR THE ELECTRONIC SHELF LABEL (ESL) SYSTEM IS TO MEET ISO/IEC 11801, BE SHIELDED SOLID CAT6 F/UTP TYPE (SCREENED TWISTED PAIR), EQUAL TO MOHAWK #M581555.
3. CABLING FOR ESL SYSTEM SHALL NOT EXCEED 328 FEET, INCLUDING SERVICE LOOP. ALL CABLING TO BE RUN FROM BASE STATION LOCATED IN THE MDF PLYWOOD BACK BOARD. ANY RUNS THAT WILL EXCEED 328 FEET ARE TO BE REFERRED TO 365 STORE TECHNOLOGY TEAM FOR GUIDANCE.
4. FOR ESL SYSTEM CABLING, A 10 FOOT SERVICE LOOP IS TO BE MAINTAINED AT THE REMOTE EQUIPMENT FOR FUTURE ADJUSTMENTS. SERVICE LOOP SHALL BE NEATLY COILED TO BUILDING STRUCTURE.
5. FOR ESL SYSTEM CABLING, ALL CABLING IS TO BE TERMINATED AT BOTH ENDS USING A COMPATIBLE RJ45 CONNECTION THAT IS DESIGNED FOR SHIELDED CABLES AND SOLID COPPER WIRES. CONNECTOR SHALL PROVIDE PROPER MEANS OF GROUNDING.
6. FOR ESL SYSTEM CABLING, ALL CABLES ARE TO BE TESTED WITH AN ANSI/TIA-1152 LEVEL III TESTER.
7. FOR ESL SYSTEM, ALL CABLES ARE TO BE LABELED USING A MACHINED PRINTER LABEL 1/8" FONT HEIGHT, BLACK TEXT AND WHITE BACKGROUND. LABELS SHALL BE INSTALLED WITHIN 12 INCHES OF THE RJ45 CONNECTOR.
8. FOR ESL SYSTEM, TRANSCEIVERS SHALL BE MOUNTED AT 15'-0" AFF USING STANDARD ALL THREADED ROD. IF CEILING HEIGHT IS LOWER THAN 15'-0", THE TRANSCEIVER SHALL BE MOUNTED DIRECTLY TO THE CEILING OR BUILDING STRUCTURE. A THREADED ROD MUST STILL BE USED AS NECESSARY TO DROP MOUNTING HEIGHT BELOW LINE OF SITE OBSTRUCTIONS SUCH AS DUCTWORK, MECHANICAL PIPING, OR ELECTRICAL CONDUITS.
9. FOR ESL SYSTEM, ALL CABLES SHALL BE NEATLY ROUTED WITH RINGS OR CABLE PATHWAY ON MDF PLYWOOD TO THE BASE STATION.
10. FOR ESL SYSTEM, ALL TRANSCEIVERS AND THE BASE STATION ARE FURNISHED BY THE ESL VENDOR. ALL CABLE INSTALLATION AND TERMINATION IS BY THE CONTRACTOR. INSTALLATION OF TRANSCEIVERS IS BY THE CONTRACTOR. CONFIRM FINAL LOCATIONS AND REQUIREMENTS WITH ESL VENDOR PRIOR TO INSTALLATION. ESL VENDOR CONTACT: PRICER

ELECTRONIC SHELF LABEL SYSTEMS PLAN NOTES:

1 TRANSCEIVER FOR ELECTRONIC SHELF LABEL SYSTEM. MOUNT TO ALL-THREAD HANGER RODS. PROVIDE SHIELDED CAT6 CABLING AND TERMINATIONS AT UNIT AS PER GENERAL NOTES ON THIS SHEET. COORDINATE FINAL LOCATION WITH VENDOR. REFER TO DETAIL 2 SHEET E301 FOR ADDITIONAL MOUNTING DETAIL.

2 ELECTRONIC SHELF LABEL BASE SYSTEM MOUNTED TO PLYWOOD BACK BOARD. PROVIDE SHIELDED CAT 6 CABLING AND TERMINATIONS AT UNIT AS PER GENERAL NOTES ON THIS SHEET. CONTRACTOR IS NOT RESPONSIBLE FOR MOUNTING BASE STATION ON PLYWOOD, HOWEVER THE TERMINATED CABLES SHALL BE NEATLY BUNDLED AT LOCATION OF BASE STATION.



2 TRANSCEIVER MOUNTING DETAIL
NTS

EXTEND ALL LOW VOLTAGE CONDUITS TO BOTTOM CHORD OF BAR JOIST. ROUTE LOW VOLTAGE CABLE PARALLEL TO BUILDING LINES AT CONSISTENT ELEVATION WHERE POSSIBLE. COORDINATE ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. AVOID ROUTING CABLE THROUGH SKYLIGHTS.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

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365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

03/06/2018

Sheet Title
ELECTRONIC SHELF LABEL SYSTEM PLAN

Sheet No. E301

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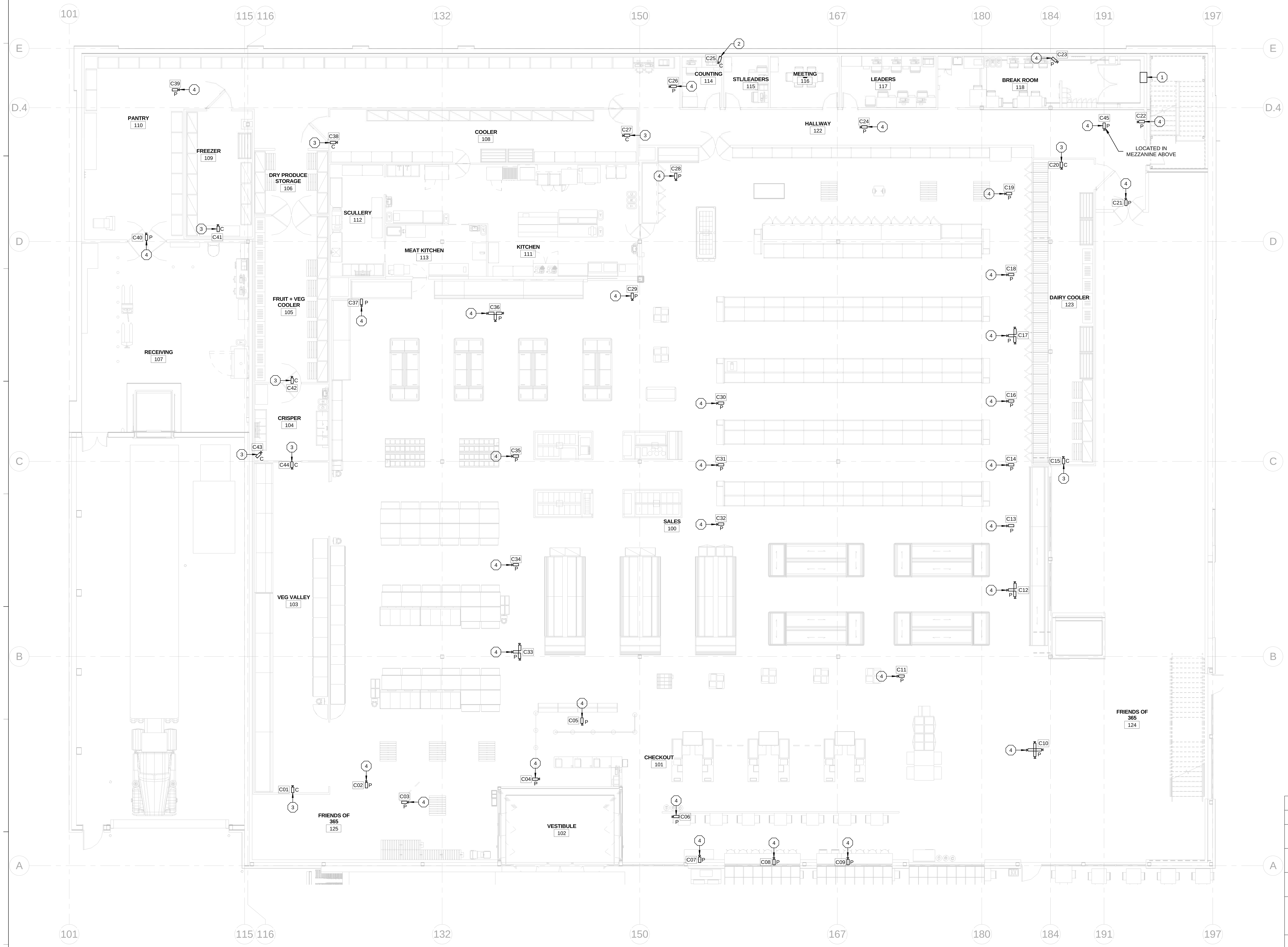
3/7/2018 1:07:37 PM



1 CCTV SYSTEMS PLAN
1/8" = 1'-0"

GENERAL CCTV SYSTEMS NOTES:

1. ALL CAMERAS AND MOUNTING HARDWARE ARE FURNISHED BY TENANT, INSTALLED BY TENANT'S SECURITY VENDOR. CONTRACTOR SHALL PROVIDE NETWORK CABLING TO CAMERAS AND NETWORK TERMINATIONS AT CAMERA AND AT NETWORK RACK. CONFIRM FINAL LOCATIONS AND REQUIREMENTS WITH SECURITY VENDOR PRIOR TO INSTALLATION. SECURITY VENDOR CONTACT: PROTECTION 1
2. CAT 6 CABLING AND TERMINATIONS FOR CAMERAS ARE FURNISHED AND INSTALLED BY CONTRACTOR. PROVIDE (1) CAT 6 CABLE DROP, TERMINATED TO A 2 PORT SURFACE MOUNTED BOX "BISCUIT" AT CAMERA LOCATION TO MEET PROJECT SPECIFICATIONS.
3. COORDINATE CAMERA MOUNTING TYPE (WALL, CEILING OR PENDANT) WITH TENANT'S CCTV SYSTEM VENDOR. PROVIDE NETWORK TERMINATION NEAR CAMERA TO MATCH MOUNTING TYPE.
4. PROVIDE A 5 FOOT SERVICE LOOP IN DATA CABLE AT EACH OUTLET FOR CAMERA. NEATLY COIL SERVICE LOOP AT DATA OUTLET.

CCTV SYSTEMS PLAN NOTES:

1 TERMINATE CABLING FOR CAMERAS TO NETWORK SWITCHES IN NETWORKING RACK. REFER TO DETAILS ON SHEET E310 FOR ADDITIONAL INFORMATION.
2 ATTACHED CAMERA TO CEILING. MOUNT DATA OUTLET ABOVE ACCESSIBLE CEILING NEAR CAMERA. COORDINATE WITH CCTV SYSTEM VENDOR.
3 MOUNT DATA OUTLET FOR COOLER CAMERA ON OUTSIDE OF COOLER. PROVIDE 1" SLEEVE THROUGH COOLER AT CAMERA LOCATION FOR PASSAGE OF CABLES. SEAL SLEEVE AFTER CABLES ARE INSTALLED. COORDINATE INSTALLATION WITH COOLER VENDOR AND CCTV SYSTEM VENDOR.
3.MOUNT DATA OUTLET FOR COOLER CAMERA ON OUTSIDE OF COOLER. PROVIDE 1" SLEEVE THROUGH COOLER AT CAMERA LOCATION FOR PASSAGE OF CABLES. SEAL SLEEVE AFTER CABLES ARE INSTALLED. COORDINATE INSTALLATION WITH COOLER VENDOR AND CCTV SYSTEM VENDOR.
4 PENDANT MOUNT CAMERAS IN AREAS WITH OPEN CEILINGS. PROVIDE J-BOX AT CAMERA. MOUNTING HARDWARE AND CAMERA IS FURNISHED BY 365, INSTALLED BY 365 PREFERRED CONTRACTOR.

CCTV LEGEND

SYMBOL	DESCRIPTION
P	INDOOR CAMERA, PENDANT MOUNTED. PROVIDE (1) CAT 6 CABLE TO NETWORK SWITCH AS REQUIRED. PROVIDE SURFACE MOUNTED DATA OUTLET AT CAMERA PER PLANS.
C	INDOOR CAMERA, CEILING MOUNTED. PROVIDE (1) CAT 6 CABLE TO NETWORK SWITCH AS REQUIRED. PROVIDE SURFACE MOUNTED DATA OUTLET AT CAMERA PER PLANS.
W	INDOOR CAMERA, WALL MOUNTED. PROVIDE (1) CAT 6 CABLE TO NETWORK SWITCH AS REQUIRED. PROVIDE SURFACE MOUNTED DATA OUTLET AT CAMERA PER PLANS.
WP	OUTDOOR CAMERA, WALL MOUNTED. PROVIDE (1) CAT 6 CABLE TO NETWORK SWITCH AS REQUIRED. PROVIDE SURFACE MOUNTED DATA OUTLET AT CAMERA. PROVIDE 3/4" CONDUIT THROUGH EXTERIOR WALL INTO BACKBOX AT EACH OUTDOOR LOCATION.
CXX	DATA PORT ADDRESS FOR CAMERA. REFER TO SHEET E-310 FOR PATCH PANEL AND PORT ADDRESS INFORMATION.

EXTEND ALL LOW VOLTAGE CONDUITS TO BOTTOM CHORD OF BAR JOIST. ROUTE LOW VOLTAGE CABLE PARALLEL TO BUILDING LINES AT CONSISTENT ELEVATION WHERE POSSIBLE. COORDINATE ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. AVOID ROUTING CABLE THROUGH SKYLIGHTS.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No.
62911019

Professional Seal

03/06/2018

Sheet Title
CCTV SYSTEMS PLAN

Sheet No.
E302

GENERAL PUBLIC ADDRESS SYSTEMS NOTES:

1. ALL SOUND SYSTEM HARDWARE AND EQUIPMENT IS TENANT FURNISHED AND CONTRACTOR INSTALLED. CONFIRM FINAL LOCATIONS AND REQUIREMENTS WITH SOUND SYSTEM VENDOR PRIOR TO INSTALLATION. SOUND SYSTEM VENDOR CONTACT: BERRY ELECTRIC
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE #14/2 STRANDED - UNSHIELDED - PVC JACKETED CABLE AS NEEDED FOR A COMPLETELY OPERATIONAL SYSTEM.
3. COORDINATE THE INSTALLATION OF THE SOUND SYSTEM WITH THE 365 PROJECT MANAGER TO ENSURE TIMELY ROUGH-IN.
4. PROVIDE ALL SLACK WIRES AT T-BAR GRID CEILINGS AND SCREW EYES, CONNECTORS, AND SUPPORTS AS NEEDED.
5. PROVIDE CONDUIT FOR ALL CABLING THAT WILL BE VISIBLE UPON THE SALES FLOOR.
6. ROUGH-IN SOUND EQUIPMENT IN A MANNER THAT COMPLIMENTS THE CONSTRUCTION SCHEDULE.
7. COORDINATE THE LOCATION OF THE VOLUME CONTROLS WITH 365 PROJECT MANAGER TO ELIMINATE CONFLICTS.
8. INSTALL ALL LOW VOLTAGE SOUND CABLING PER REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
9. PROVIDE ALL HARDWARE NECESSARY FOR THE MOUNTING AND SUSPENSION OF THE SOUND EQUIPMENT.
10. COORDINATE THE INSTALLATION OF ALL THE SPEAKERS AND SOUND RELATED SYSTEMS IN A MANNER THAT CONSIDERS OTHER MECHANICAL, REFRIGERATION, CONSTRUCTION WORK AND ADJUST, MOVE, AND FACILITATE AN INSTALLATION TO AVOID CONFLICTS.
11. THE CONTENT FOR THE SOUND SYSTEM SHALL BE THE "WHOLE FOODS RADIO" SOURCE DEVICE.
12. PROVIDE CONNECTIVITY CABLE BETWEEN THE "WHOLE FOODS RADIO" DEVICE TO THE SOUND SYSTEM'S "SOURCE/INPUT" LOCATED AT THE MIXER.
13. WORK WITH THE 365 INFORMATION SYSTEMS PROJECT MANAGER ON THE COORDINATION OF THE RECEIVER BOX AT THE SOUND RACK. PROVIDE CONNECTIVITY FROM THE DIRECT TV RECEIVER TO THE INPUT POINTS ON THE MIXER.
14. PROVIDE CONNECTIVITY CABLE BETWEEN THE TELEPHONE SYSTEM AND THE SOUND SYSTEM. THIS CABLE WILL ALLOW PAGING TO OCCUR WHEN SELECTED FROM THE TELEPHONE SYSTEM.
15. PROVIDE A PLASTER RING AT THE OFFICES FOR VOLUME CONTROL DEVICES.
16. SOUND SYSTEM DRAWING IS FOR BASIS OF DESIGN AND SCOPE OF WORK. CONTRACTOR TO ENGAGE SOUND SYSTEM VENDOR TO PROVIDE FINAL SPEAKER LAYOUT AND SOUND SYSTEM WIRING DESIGN.

PUBLIC ADDRESS SYSTEM PLAN NOTES:

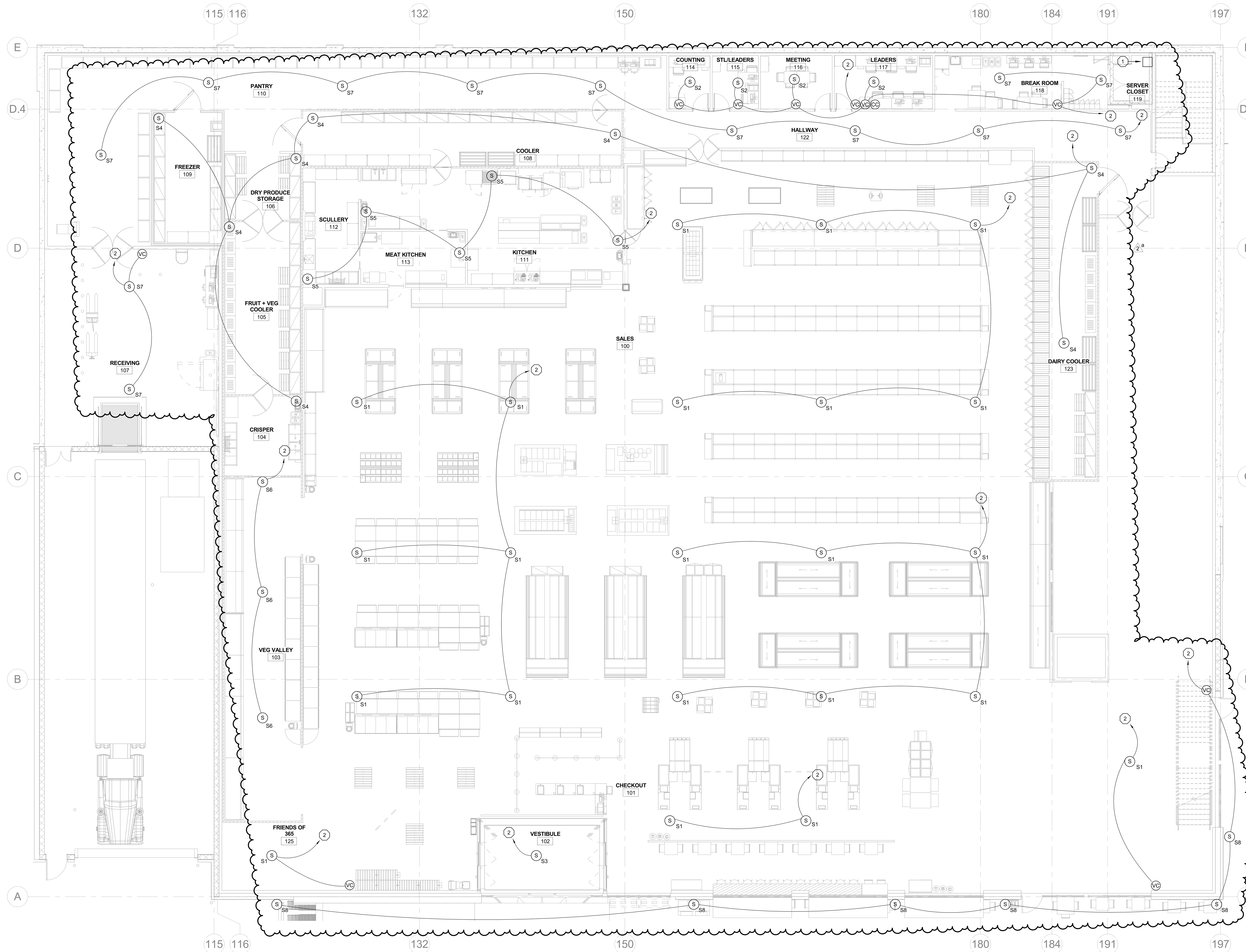
1 AV SYSTEM EQUIPMENT RACK MOUNTED TO CUSTOMER PROVIDED PLYWOOD BACKBOARD. REFER TO AV SHEETS FOR DETAILS. EXACT LOCATION TBD

2 PROVIDE 1/2" CONDUIT TO AV EQUIPMENT LOCATION WITH (1) SPEAKER CABLE. REFER TO AV SHEETS FOR DETAILS.

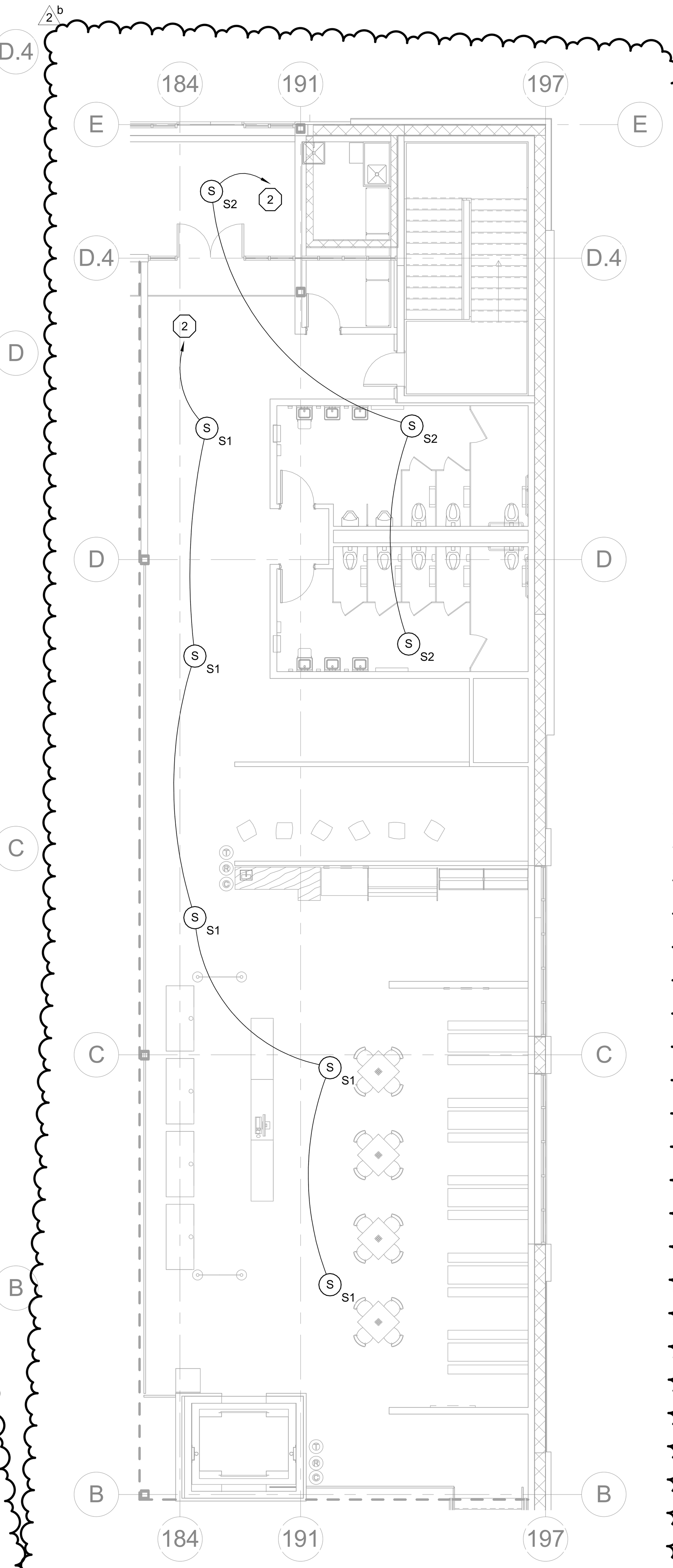
SOUND EQUIPMENT SCHEDULE
DESCRIPTION
WALL MOUNT RACK LOWELL LWR-1223
DIGITAL SIGNAL PROCESSOR BOSE ESP880
AMPLIFIER BOSE POWERSHARE PS604
AMPLIFIER BOSE POWERSHARE PS602
POWER CONDITIONER FURMAN 20A

SPEAKER LEGEND

SYMBOL	DESCRIPTION
S S1	SALES AREA PENDANT MOUNT SPEAKER BOSE FREESPACE 40F
S S2	BOH/RESTROOM FLUSH MOUNT SPEAKER BOSE FREESPACE DS16F
S S3	VESTIBULE FLUSH MOUNT SPEAKER BOSE FREESPACE DS40F
S S4	BOH/COOLER PAGING HORN TOA SC-615T
S S5	KITCHEN SURFACE MOUNT SPEAKER LOWELL DSL-805-72K WITH VOLUME CONTROL
S S6	VEG VALLEY SURFACE MOUNT SPEAKER BOSE FREESPACE 40SE
S S7	RECEIVING/BREAKROOM PENDANT MOUNT SPEAKER, BOSE FREESPACE DS16F
S S8	EXTERIOR RATED WALL MOUNT SPEAKER BOSE FREESPACE 100SE
VC	VOLUME CONTROL LOWELL WALL MOUNT VOLUME CONTROL
VC 200	VOLUME CONTROL - 200 WATT LOWELL WALL MOUNT VOLUME CONTROL
CC	BOSE CONTROL CENTER CONTROLLER



1 PUBLIC ADDRESS SYSTEM PLAN
1/8" = 1'-0"



2 PUBLIC ADDRESS SYS. PLAN - MEZZ.
1/8" = 1'-0"

EXTEND ALL LOW VOLTAGE CONDUITS TO BOTTOM CHORD OF BAR JOIST. ROUTE LOW VOLTAGE CABLE PARALLEL TO BUILDING LINES AT CONSISTENT ELEVATION WHERE POSSIBLE. COORDINATE ROUTING AND INSTALLATION WITH OTHER TRADES PRIOR TO ROUGH-IN. SUPPORT CONDUIT FROM STRUCTURE NOT ROOF DECK. AVOID ROUTING CABLE THROUGH SKYLIGHTS.

COMBINE AND ROUTE ALL CONDUITS ALONG EXTERIOR WALLS, DIRECTLY ABOVE CEILINGS, OR IN PLENUMS TO MINIMIZE VISIBILITY FROM SALES FLOOR.

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brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

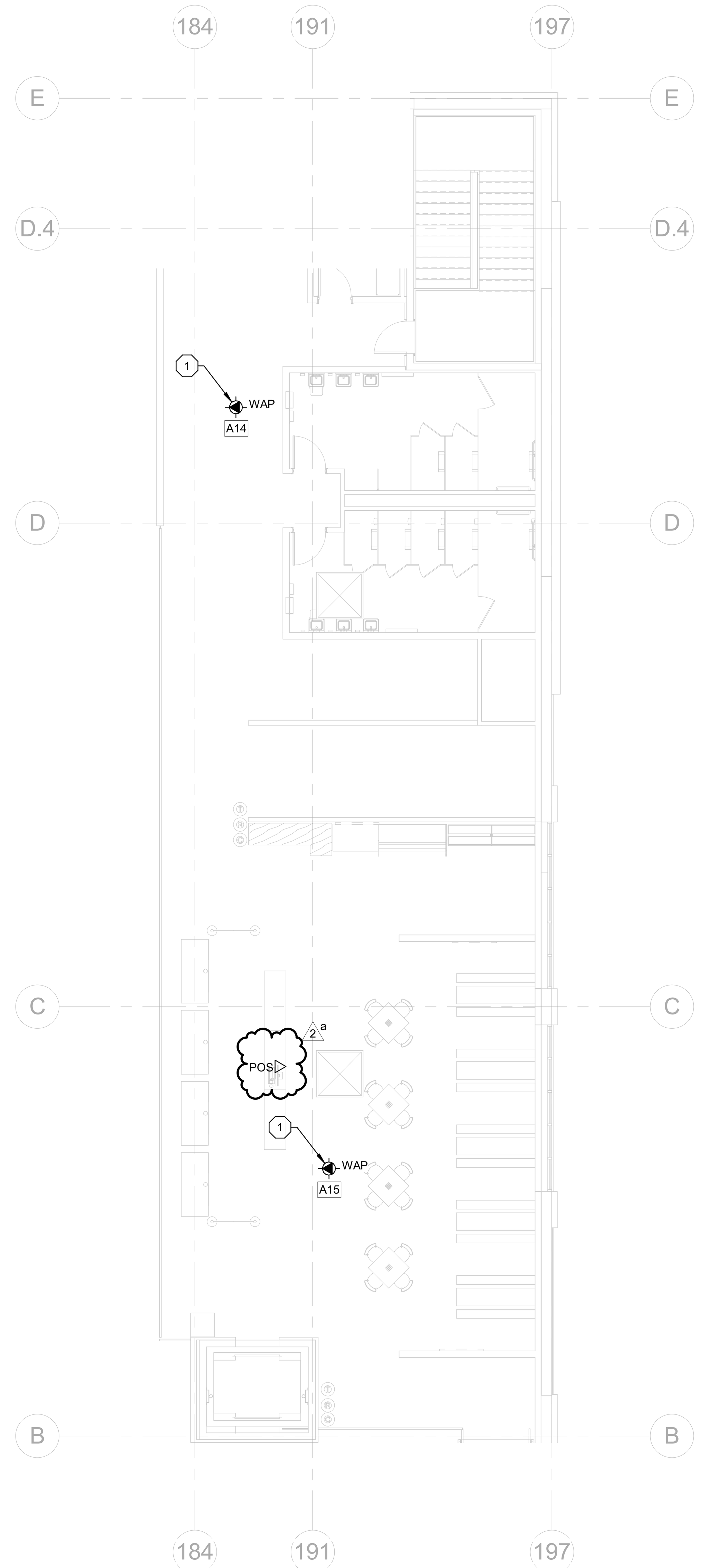
365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

05/21/2018

Sheet Title
PUBLIC ADDRESS SYSTEM PLAN

Sheet No.
E303



1 ELECTRICAL SPECIAL SYSTEMS PLAN - MEZZANINE
1/8" = 1'-0"

ELECTRICAL SPECIAL SYSTEMS PLAN NOTES

1 LEAVE A 15 FOOT SERVICE LOOP IN CABLING FOR WAP'S FOR ADJUSTMENTS AND TUNING. NEATLY COIL LOOPS AT WAP'S. PENDANT MOUNT WAP IN AREAS WITH OPEN CEILINGS AT 15'-0" AFF. MOUNT FROM ¾" RIGID CONDUIT STEM SECURED TO

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

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ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
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7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: Approver
Checked By:

Drawn by: Author
Document date: 01/26/18
Template date:

Project No.
62911019

Professional Seal

05/21/2018

Sheet Title
ELECTRICAL SPECIAL SYSTEMS PLAN - MEZZANINE

Sheet No.
E304

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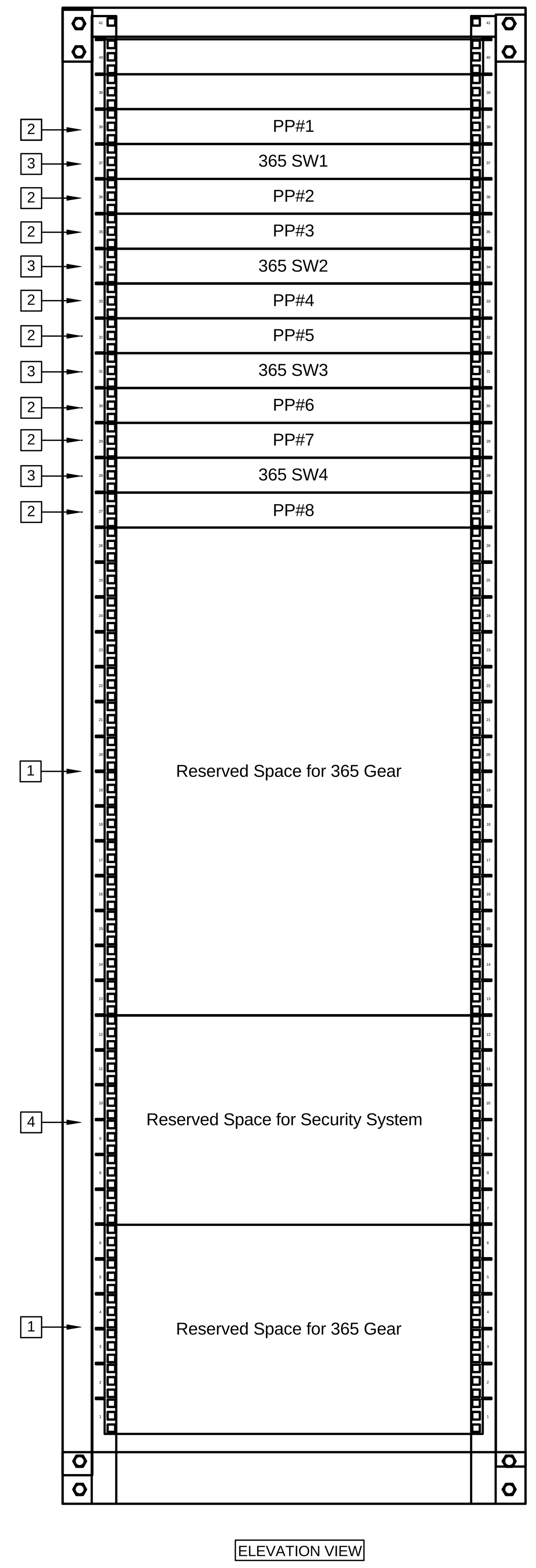
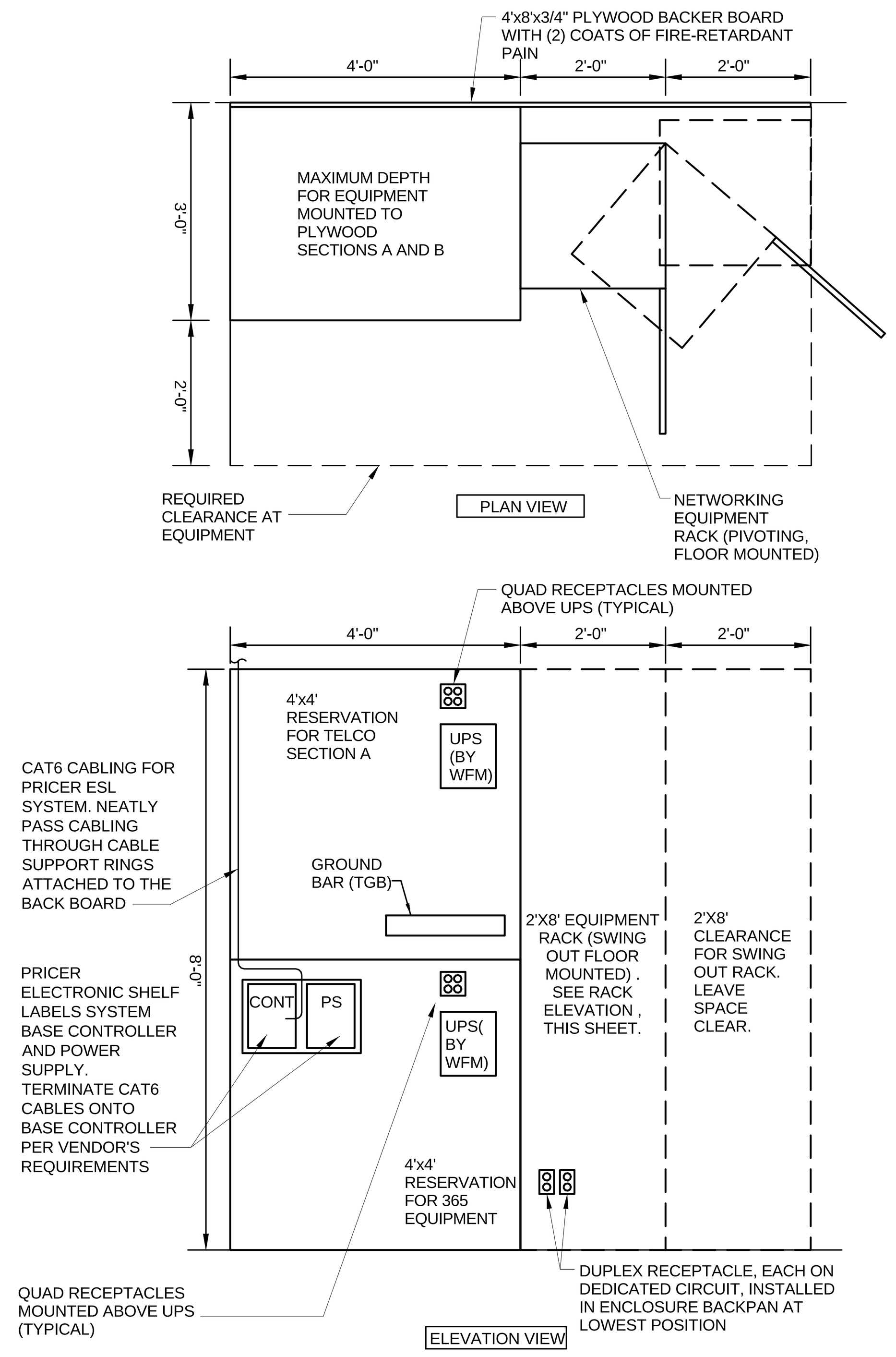


NOTES:
1. CONTRACTOR TO PROVIDE NETWORK RACK. RACK TO BE MIDDLE ATLANTIC (MA) #SR-40-32 PIVOTING RACK ENCLOSURE WITH 40U MOUNTING SPACE AND BACK PLATE. RACK TO BE PROVIDED WITH VENTED DOOR MA #LVFD-40, REAR RACK RAILS MA #DWR- RR440, MINIMUM CLEARANCE LATCH MA #DWRSR-ZL AND SUBPLATE MOUNTING KIT MA #SR-SUM.

RACK ELEVATION EQUIPMENT SCHEDULE

TAG	RACK UNITS (RU)	DESCRIPTION
1	-	SPACE ALLOWANCE FOR EQUIPMENT (OWNER FUNISHED/INSTALLED)
2	1U	SPACE FOR 24-PORT PATCH PANEL (CONTRACTOR FURNISHED/INSTALLED)
3	1U	SPACE FOR 48-PORT SWITCH (OWNER FURNISHED/INSTALLED)
4	4U	SPACE FOR SECURITY NVR (OWNER FURNISHED/INSTALLED)

5 RACK ELEVATION
NTS



4 PLYWOOD BACKER BOARD ELEVATION
NTS

TECHNOLOGY OUTLET SCHEDULE

OUTLET TYPE	BACKBOX AND CONDUIT	DESCRIPTION	JACK INSERT COLOR	MODEL #	
A	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING ONE (1) CAT6 JACK MODULE FOR DATA AND ONE (1) CAT6 JACK MODULE FOR VOICE. PROVIDE TWO (2) CAT6 CABLES TO PATCH PANEL IN NETWORK RACK.	RED: DATA BLUE: PHONE (WORKSTATION / VOIP / PHONE)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
B	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING ONE (1) CAT6 JACK MODULE FOR DATA. PROVIDE ONE (1) CAT6 CABLE TO PATCH PANEL IN NETWORK RACK.	RED (WORKSTATION / VOIP / PHONE)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
C	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING TWO (2) CAT6 JACK MODULES FOR DATA. PROVIDE TWO (2) CAT6 CABLES TO PATCH PANEL IN NETWORK RACK.	RED (WORKSTATION / VOIP / PHONE)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
D	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING ONE (1) CAT6 JACK MODULE FOR DATA. PROVIDE ONE (1) CAT6 CABLE TO PATCH PANEL IN NETWORK RACK.	GREEN (POS REGISTERS / HOSPITALITY DATA)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
E	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING ONE (1) CAT6 JACK MODULE FOR DATA AND ONE (1) CAT6 JACK MODULE FOR VOICE. PROVIDE TWO (2) CAT6 CABLES TO PATCH PANEL IN NETWORK RACK.	GREEN (POS REGISTERS / HOSPITALITY DATA)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
F	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING FOUR (4) CAT6 JACK MODULES FOR DATA. PROVIDE FOUR (4) CAT6 CABLES TO PATCH PANEL IN NETWORK RACK.	GREEN (POS REGISTERS / HOSPITALITY DATA)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
POS	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE SINGLE-GANG FACEPLATE WITH A FOUR (4) PORT JACK MODULE CAPACITY CONTAINING TWO (2) CAT6 JACK MODULES FOR DATA. PROVIDE TWO (2) CAT6 CABLES TO PATCH PANEL IN NETWORK RACK.	GREEN (POS REGISTERS / HOSPITALITY DATA)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
W	4" SQ., 2-1/8"D BOX WITH SINGLE-GANG PLASTER RING. 1" CONDUIT TO ABOVE CEILING OR TO ROOF STRUCTURE.	PROVIDE PHONE PLATE WITH ONE (1) PORT FOR ONE (1) JACK MODULE. PROVIDE ONE (1) CAT6 JACK MODULE FOR VOICE. PROVIDE ONE (1) CAT6 CABLE TO PATCH PANEL IN NETWORK RACK.	BLUE (WORKSTATION / VOIP / PHONE)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
WAP	SURFACE MOUNTED FACEPLATE AT STRUCTURE OR ON WALL	PROVIDE SURFACE-MOUNTED FACEPLATE BOX WITH A TWO (2) PORT JACK MODULE CAPACITY. PROVIDE ONE (1) CAT6 JACK MODULE FOR DATA. PROVIDE ONE (1) CAT6 CABLE TO PATCH PANEL IN NETWORK RACK.	ORANGE (WAP DATA)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS
	SURFACE MOUNTED FACEPLATE AT STRUCTURE OR ON WALL (MOUNTED AT 15'-0" AFF). SEE SHEET E3.02 FOR LOCATION OF OUTLET	PROVIDE SURFACE-MOUNTED FACEPLATE BOX WITH A TWO (2) PORT JACK MODULE CAPACITY. PROVIDE ONE (1) CAT6 JACK MODULE FOR DATA. PROVIDE ONE (1) CAT6 CABLE TO PATCH PANEL IN NETWORK RACK.	WHITE (CAMERA DATA)	PLATE / ADAPTER	PER SPECIFICATIONS
				JACKS	PER SPECIFICATIONS
				BLANKS	PER SPECIFICATIONS

GENERAL NOTES:

A	PROVIDE BLANK INSERTS, MATCHING FACEPLATE OR MODULE FRAME COLOR, FOR ALL UNUSED PORTS. FACEPLATE COLOR AS SELECTED BY OWNER'S IT DEPARTMENT.
B	ALL HORIZONTAL CABLING SHALL BE PLENUM RATED IN PLENUM AREAS. CABLES IN NON-PLENUM AREAS MAY BE NON-PLENUM RATED. ALL CABLING FOR VOICE AND DATA SHALL BE CAT6 UNLESS NOTED OTHERWISE.
C	VOICE / DATA CABLES ARE TO TERMINATE ON PATCH PANELS IN IDF.
D	FOR ANY LOCATIONS WITHIN MODULAR FURNITURE, USE APPROPRIATE FURNITURE PLATE ADAPTER UNLESS OPENINGS ARE UNAVAILABLE THEN USE MODULAR SURFACE MOUNTED BOXES.
E	(RED FOR DATA, BLUE FOR PHONE, ORANGE PROVIDE JACK MODULES AT BOTH ENDS OF CABLES (NETWORK RACK PATCH PANEL AND FACEPLATE). COLOR AS SELECTED BY OWNER'S IT DEPARTMENT. INSTALL PER OWNER'S STANDARDS. FOR WAP, GREEN FOR POS, GREEN FOR ALOHA/HOSPITALITY, AND WHITE FOR CAMERA).
F	PHONE SYSTEM IS VOICE OVER INTERNET (VOIP). THIS VOIP SYSTEM SHALL UTILIZE CAT6 CABLING.

GENERAL TECHNOLOGY NOTES:

A. LOCATE WALL TELEPHONE OUTLETS IN A MANNER THAT DOES NOT CONFLICT WITH SWITCHES, ETC.

B. COORDINATE SOUND SYSTEM COMPONENTS TO ELIMINATE POSSIBLE CONFLICTS (TYPICAL).

C. THE DATA CABLING, AS WELL AS THE TELEPHONE CABLING TERMINATE AT THE NETWORK RACK ON THE DATA RACK.

D. 365 MARKETS WILL UTILIZE A TELEPHONE SYSTEM CALLED VOIP. THIS VOICE OVER INTERNET PROTOCOL SYSTEM WILL UTILIZE CAT6 CABLING. THE ACTUAL TELEPHONE CABLING SYSTEM SHALL UTILIZE A DIFFERENT COLOR JACK FROM THE DATA SYSTEM.

E. LABLING IS CRITICAL TO THE ENTIRE SYSTEM AND IS REQUIRED TO BE FOLLOWED PER 365'S IT DEPARTMENT DRAWING.

F. 365 MARKET WILL DETERMINE AND ORDER ALL NECESSARY TELEPHONE SERVICES.

G. COORDINATION WITH THE TELEPHONE UTILITY SHALL BE THE RESPONSIBILITY OF 365 MARKETS INFORMATION TECHNOLOGY PROJECT MANAGER. ELECTRICAL CONTRACTOR SHALL PARTICIPATE, SUPPORT, AND COMMUNICATE ANY AND ALL INFORMATION TO THE WFM PROJECT MANAGER THAT IS OBTAINED FROM TELEPHONE UTILITYS' FIELD PERSONNEL. ALL INFORMATION REGARDING STATUS, GROUNDING, DATES OF FIELD VISITS, EQUIPMENT DELIVERY AND INSTALLATION. ACCOMPLISHMENTS OF THE UTILITY'S PERSONNEL SHALL BE FORWARDED TO 365.

H. 365 MARKET WILL PROVIDE A 14" WIDE BY 14" TALL BY 4" DEEP STAINLESS STEEL NICHE TYPE STRUCTURE. THIS WALL PHONE HOLDER'S INSTALLATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE PROJECT MANAGER TO INSURE COMPATIBILITY WITH THE FRAMING AND WALL FINISHES.

I. THE TELEPHONE HAND SET'S CABLING SHALL EXTEND THRU THE BACK OF THE STAINLESS STEEL NICHE AND CONNECT TO THE VOIP DATA JACK.

J. ELECTRICAL CONTRACTOR SHALL PHYSICALLY MOUNT THE VOIP TELEPHONE MECHANISM ONTO THE STAINLESS STEEL NICHE, FOR A COMPLETE INSTALLATION.

K. CABLING CONTRACTOR SHALL FURNISH / INSTALL CAT6 CABLING FOR THE CAMERA SYSTEM. SEE SHEET EC1.01 FOR CAMERA LOCATIONS. IT SHALL UTILIZE A POWER OVER ETHERNET (POE) CABLING METHODOLOGY.

L. 365 WILL PROVIDE A 16" WIDE BY 18" TALL BY 4" DEEP STAINLESS STEEL NICHE TYPE TIMECLOCK STRUCTURE. THIS WALL-MOUNTED TIMECLOCK HOLDER'S INSTALLATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE PROJECT MANAGER TO INSURE COMPATABILITY WITH THE FRAMING AND WALL FINISHES.

M. THE TIMECLOCK'S CABLING AND 120 VOLT POWER SHALL EXTEND THRU THE BACK OF THE STAINLESS STEEL NICHE AND CONNECT IN A MANNER THAT IS COMPATIBLE WITH THE KRONOS TIME CLOCK.

N. ELECTRICAL CONTRACTOR SHALL PHYSICALLY MOUNT THE KRONOS EMPLOYEE TIMECLOCK DEVICE ONTO THE STAINLESS STEEL NICHE FOR A COMPLETE INSTALLATION.

ALL CONTROLS CABLING, TERMINATION, AND HARDWARE INSTALL SCOPE IS THE RESPONSIBILITY OF GC. THIS SCOPE IS TO BE BID BY QUALIFIED LV CONTROLS CONTRACTOR. GC TO COORDINATE TERMINATIONS BETWEEN HVAC/REFRIGERATION/LV CONTRACTORS.

GROUNDING GENERAL NOTES:

A. ALL GROUNDING CONDUCTORS SHALL BE TAGGED AT THE TELECOMMUNICATION BUSBAR.

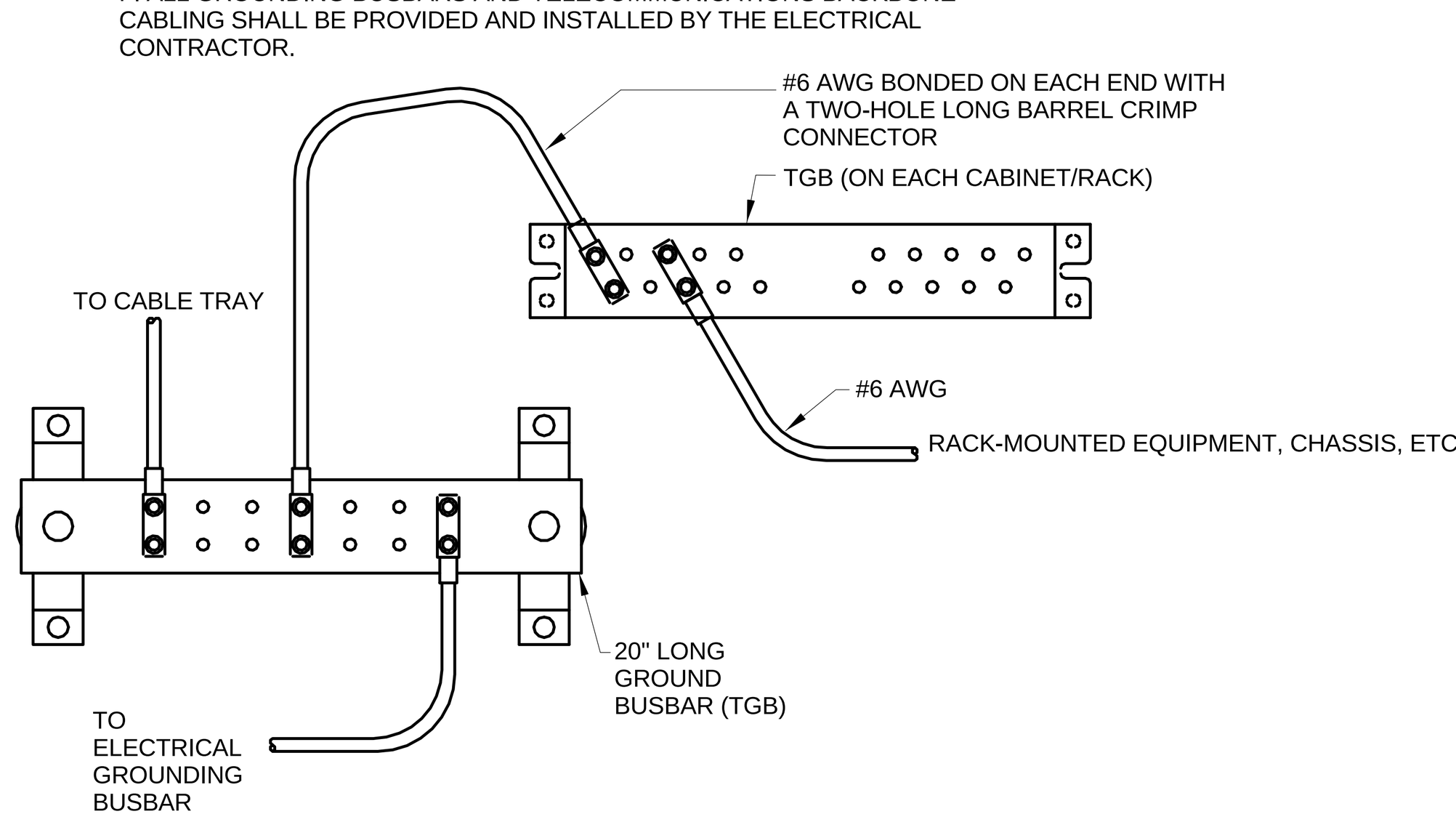
B. USE PAINT PIERCING HARDWARE ON ALL RACKS, CABLE TRAY, AND MOUNTING RAILS.

C. ALL CONNECTORS SHALL BE TWO-HOLE, COMPRESSION STYLE FITTINGS.

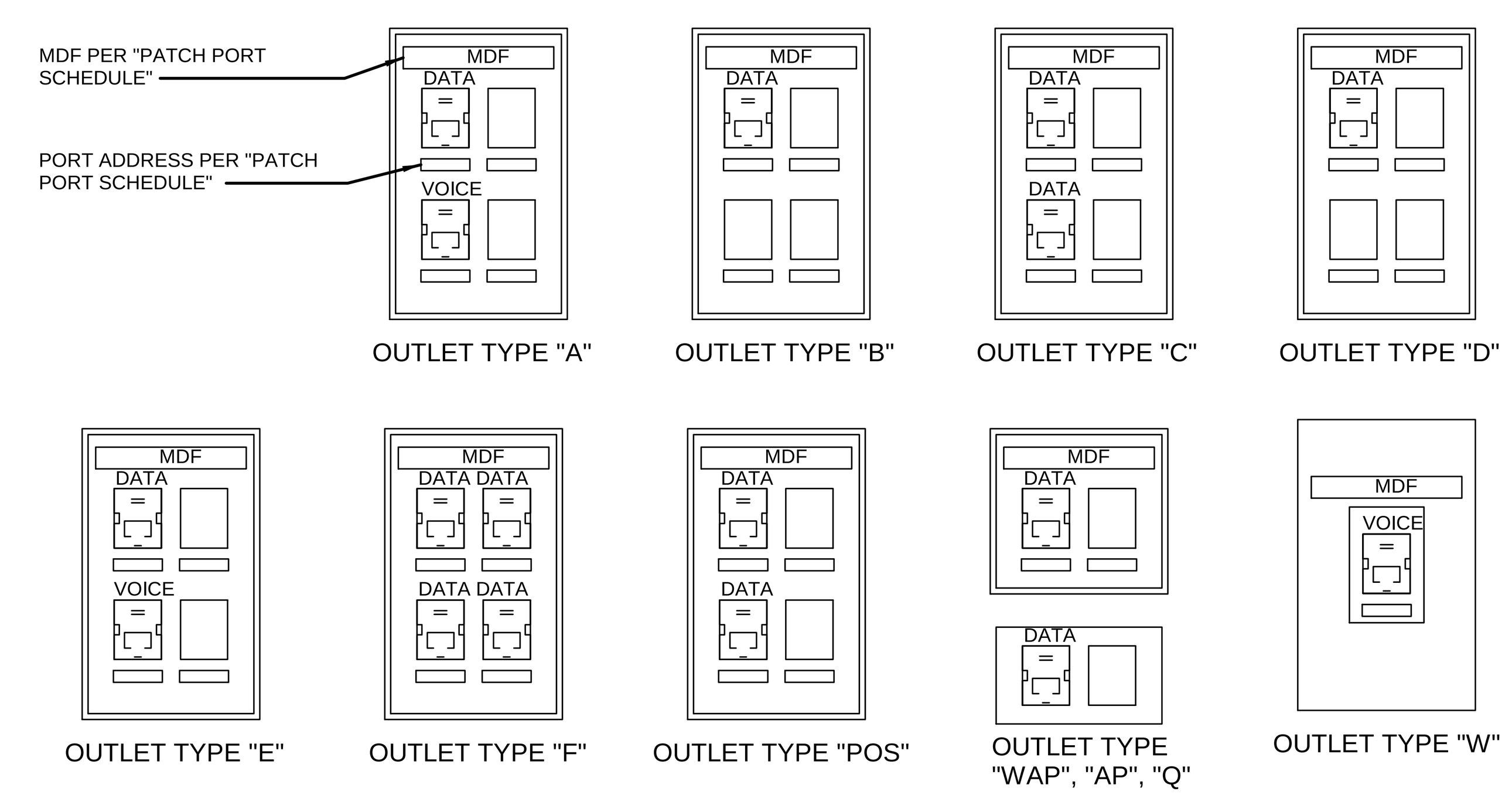
D. BUSBARS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY. ACTUAL SIZE IS DETERMINED BY THE SPECIFICATIONS AND INDIVIDUAL PROJECT REQUIREMENTS.

E. ALL MATERIALS AND TERMINATIONS FROM THE TELECOMMUNICATION GROUNDING BUSBARS TO THE DEVICES WITHIN THE TECHNOLOGY ROOM ARE THE RESPONSIBILITY OF THE INDIVIDUAL SYSTEMS CONTRACTOR.

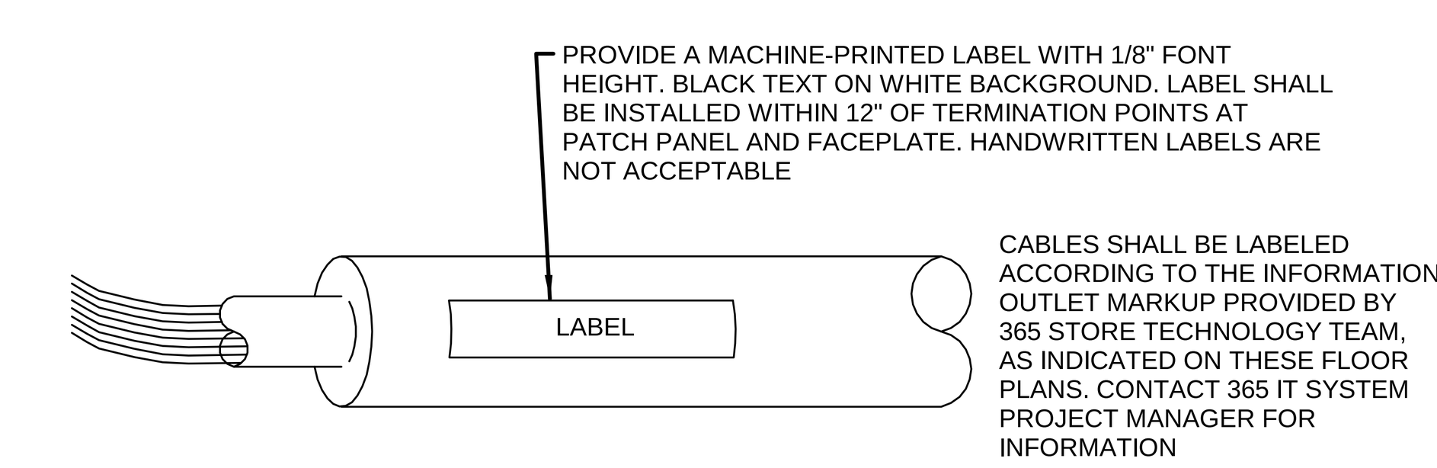
F. ALL GROUNDING BUSBARS AND TELECOMMUNICATIONS BACKBONE CABLING SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.



3 GROUNDING BAR DETAIL
NTS



2 TECHNOLOGY FACEPLATE DETAILS
NTS



1 CABLE LABELING DETAIL
NTS

PATCH PORT SCHEDULE

PP#1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
PP#2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A01	A08	A15	P201-A	P204-B	P208-A	H111-01	D101-01	D102-02	D108-02	D1119-01	D115-04	D117-06	V111-01	C01	C08	C15	C22	C29	C36	C43			
	Orange	Orange	Orange	Green	Green	Green	Green	Red	Red	Red	Red	Red	Red	Blue	White	White	White	White	White	White	White			
PP#3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A02	A09		P201-B	P205-A	P208-B	H111-02	D101-02	D107-01	D108-03	D113-01	D116-01	D118-01		C02	C09	C16	C23	C30	C37	C44			
	Orange	Orange		Green	Green	Green	Green	Red	Red	Red	Red	Red	Red		White	White	White	White	White	White	White			
PP#4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A03	A10		P202-A	P205-B	P276-A	H111-03	D101-03	D107-02	D111-01	D114-01	D117-01	D118-02		C03	C10	C17	C24	C31	C38	C45			
	Orange	Orange		Green	Green	Green	Green	Red	Red	Red	Red	Red	Red		White	White	White	White	White	White	White			
PP#5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A04	A11		P202-B	P206-A	P276-B	H111-04	D101-04	D107-03	D111-02	D114-02	D117-02	D118-03		C04	C11	C18	C25	C32	C39				
	Orange	Orange		Green	Green	Green	Green	Red	Red	Red	Red	Red	Red		White	White	White	White	White	White				
PP#6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A05	A12		P203-A	P206-B	P631-A	H117-01	D101-05	D107-04	D111-03	D115-01	D117-03	D118-04		C05	C12	C19	C26	C33	C40				
	Orange	Orange		Green	Green	Green	Green	Red	Red	Red	Red	Red	Red		White	White	White	White	White	White				
PP#7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A06	A13		P203-B	P207-A	P631-B		D101-06	D107-05	D111-04	D115-02	D117-04	D118-05		C06	C13	C20	C27	C34	C41				
	Orange	Orange		Green	Green	Green		Red	Red	Red	Red	Red	Red		White	White	White	White	White	White				
PP#8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A07	A14		P204-A	P207-B	P631-C		D102-01	D108-01	D111-05	D115-03	D117-05	D118-06		C07	C14	C21	C28	C35	C42				
	Orange	Orange		Green	Green	Green		Red	Red	Red	Red	Red	Red		White	White	White	White	White	White				

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brr
Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044
Consultants
ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

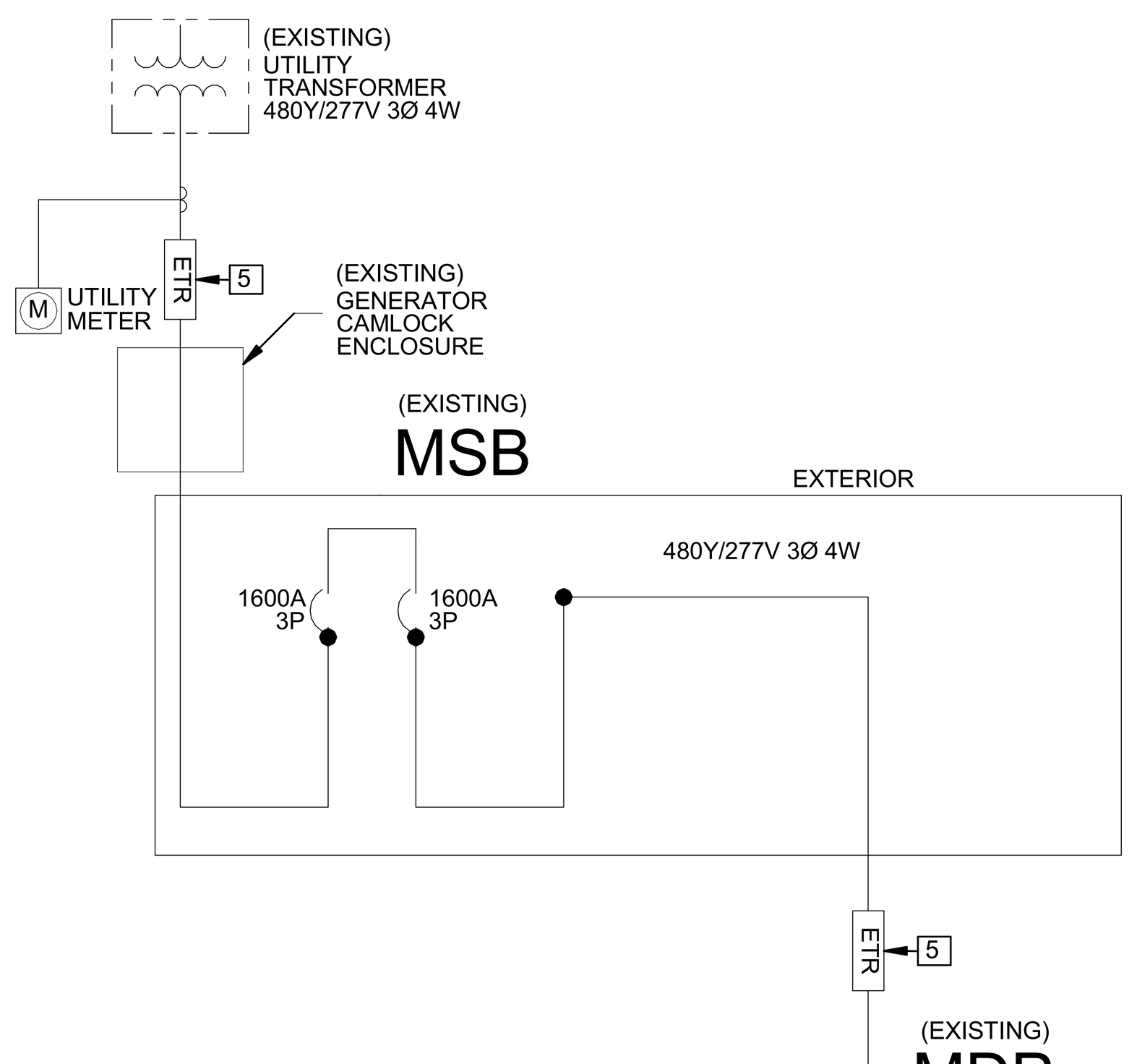
NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name
365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

03/06/2018
Sheet Title
ELECTRICAL SPECIAL SYSTEMS SCHEDULES AND DETAILS
Sheet No.
E310



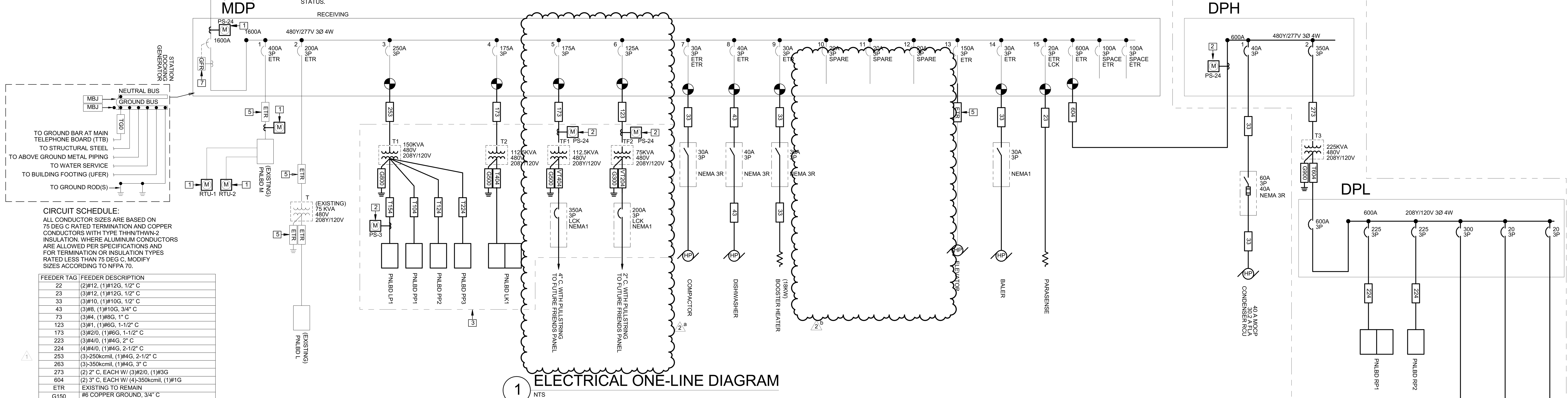
GENERAL ELECTRICAL ONE-LINE NOTES:

1. CONDUCTOR/CONDUIT SIZES ARE BASED ON CU THHN/THWN-2 INSULATION, UNO. FEEDER NUMBER DESIGNATIONS PRECEDED BY "A" INDICATE THAT THE SIZE IS BASED ON AL WIRE. AL CONDUCTOR SIZES ARE BASED ON XHHW-2 INSULATION, UNO. AL WIRE MAY BE SUBSTITUTED FOR LARGE CU FEEDERS AS ALLOWED BY CODE, SPECIFICATIONS AND TENANT, UNO. AT CONTRACTOR'S OPTION, CU WIRE MAY BE SUBSTITUTED FOR AL, UNO. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATIONS, UNO. FOR ANY OTHER CONDITIONS MODIFY SIZES PER CODE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE PROPERLY SIZED LUGS FOR ALL EQUIPMENT, CIRCUIT BREAKERS, AND OTHER ELECTRICAL DEVICES TO ACCOMMODATE INSTALLED CONDUCTORS. UTILIZE PIN ADAPTERS ONLY IF NECESSARY AND ONLY AS ALLOWED BY MANUFACTURER.
3. PROVIDE ANY AVAILABLE SPACE IN SWITCHBOARDS/PANELBOARDS WITH BUSSING.
4. PROVIDE (4) EMPTY 1" CONDUITS WITH PULL STRINGS FROM EACH RECESSED PANELBOARD UP TO ACCESSIBLE CEILING SPACE. CAP AND LABEL CONDUITS FOR FUTURE USE.
5. GROUNDING ELECTRODE SYSTEM SHALL BE PER LOCAL REQUIREMENTS BUT SHALL NOT BE LESS STRINGENT THAN THAT SPECIFIED ON THIS SHEET AND ASSOCIATED SPECIFICATIONS.
6. PROVIDE TYPED FINAL CIRCUIT DIRECTORY FOR ALL PANELBOARDS TO REFLECT ACTUAL AS-BUILT CONDITIONS. CIRCUIT DESCRIPTIONS SHALL BE PER NEC 408.4 AND SHALL BE DISTINGUISHABLE FROM ALL OTHERS.
7. CIRCUIT BREAKERS RATED 1,200A OR HIGHER SHALL HAVE APPROPRIATE DOCUMENTATION AND METHOD TO REDUCE CLEARING TIME IN ORDER TO REDUCE ARC FLASH ENERGY IN ACCORDANCE WITH NEC 240.87. PROVIDE ELECTRONIC TRIP UNIT WITH INSTANTANEOUS TRIP AND ENERGY-REDUCING MAINTENANCE SWITCH WITH LOCAL STATUS INDICATOR FOR COMPLIANCE. PROVIDE PROVISIONS TO INTERFACE WITH TENANT ALARM/MONITORING SYSTEM TO INDICATE MAINTENANCE SWITCH STATUS.
8. PROVIDE A DIGITALLY PRINTED, HIGH-DURABILITY LAMINATED LABEL SUITABLE FOR OUTDOOR APPLICATIONS AND ADHERE TO FRONT OF EQUIPMENT ENCLOSURE FOR PERMANENT MARKING. LETTERING SHALL BE BLACK, MINIMUM OF ¼" HIGH AND HAVE YELLOW BACKGROUND. LABEL SHALL INCLUDE THE FOLLOWING INFORMATION, (INCLUDE RESPECTIVE NAMES IN BLANKS):
9. COORDINATE WORK WITH ARCHITECTURAL PHASING PLANS TO PROPERLY STAGE TRANSITION TO PROVIDE POWER TO EXISTING, NEW AND TEMPORARY LOADS. MONITOR LOADS ON DISTRIBUTION SWITCHBOARD(S) TO MAKE SURE SHIFTING OF LOADS DOES NOT OVERLOADING ELECTRICAL EQUIPMENT.
10. COORDINATE ANY NECESSARY POWER OUTAGES WITH THE LANDLORD AND TENANT AND MAKE EVERY ATTEMPT TO SCHEDULE DURING NON-BUSINESS OR OFF-PEAK BUSINESS HOURS TO MINIMIZE DISRUPTION TO BUSINESS OPERATIONS.
11. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTING AIC/SCCR RATING OF EACH PANELBOARD/SWITCHBOARD. ALL NEW AND EXISTING OVER-CURRENT PROTECTION DEVICES, (CIRCUIT BREAKERS AND FUSES), MUST HAVE AN AIC/SCCR RATING MATCHING OR EXCEEDING THE AVAILABLE FAULT CURRENT AT THAT POINT IN THE SYSTEM. NOTIFY THE ENGINEER IF THE EXISTING EQUIPMENT DOES NOT COMPLY WITH THIS REQUIREMENT.
12. ALL NEW PANELBOARDS SHALL BE CAPABLE OF HAVING INTERNAL CT'S ADDED TO INDIVIDUAL OR GROUPS OF CIRCUITS IN THE FUTURE TO MEASURE LOAD TYPES AS DEFINED IN TITLE 24 BUILDING ENERGY EFFICIENCY STANDARDS, UNO. LOAD CENTER CONSTRUCTION IS NOT ACCEPTABLE, UNO.
13. VERIFY THE INTEGRITY OF THE EXISTING GROUNDING ELECTRODE SYSTEM AND THAT THE NEUTRAL AND GROUND ARE PROPERLY BONDED TOGETHER AT THE POINT OF SERVICE ENTRANCE. NOTIFY THE TENANT AND ENGINEER OF ANY EXISTING DEFICIENCIES AND REPAIR AS NECESSARY TO COMPLY WITH LOCAL REQUIREMENTS.

- AS APPLICABLE, OBTAIN THE FOLLOWING INFORMATION IN REGARD TO THE EXISTING TENANT ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM AND REPORT FINDINGS TO THE ENGINEER FOR ANALYSIS PRIOR TO BEGINNING CONSTRUCTION:
- AVAILABLE FAULT CURRENT DELIVERED BY THE UTILITY COMPANY AT THE POINT OF SERVICE. INCLUDE THE AVAILABLE FAULT CURRENT DELIVERED TO THE TENANT SPACE BY THE LANDLORD'S DISTRIBUTION SYSTEM.
- PROVIDE A SKETCH OF THE LANDLORD'S DISTRIBUTION EQUIPMENT LOCATION RELATIVE TO THE ENTIRE BUILDING. INCLUDE THE LOCATION OF TENANT'S UTILITY METER AND SERVICE DISCONNECT.
- PROVIDE A SKETCH OF THE ONE-LINE SHOWING THE PATH FROM THE UTILITY TRANSFORMER TO THE LANDLORD EQUIPMENT TO THE TENANT SPACE. INCLUDE FEEDER CONDUCTOR MATERIAL, (AL OR CU), LENGTH, CONDUIT SIZE AND CONDUIT TYPE.
- TYPE OF SERVICE DISCONNECT OVER-CURRENT PROTECTION DEVICE, (FUSE OR CIRCUIT BREAKER), AMPERE RATING OF THE DEVICE AND AIC/SCCR RATING OF THE DEVICE.
- AIC/SCCR RATING AT EACH EXISTING SWITCHBOARD/PANELBOARD.

ELECTRICAL ONE-LINE DIAGRAM NOTES

1 SIEMENS POWER MONITORING METER. METER TO BE FURNISHED AND INSTALLED BY SIEMENS VIA EMS CONTRACTOR. CT'S TO BE INSTALLED BY ELECTRICAL CONTRACTOR IN FIELD. COORDINATE LOW VOLTAGE WIRING SPECIFICATIONS WITH EMS DRAWINGS AND FINAL LOCATION WITH EMS CONTRACTOR.
2 SIEMENS POWER MONITORING METER. METER TO BE FURNISHED AND INSTALLED IN POWERWALL BY POWERWALL VENDOR. COORDINATE LOW VOLTAGE WIRING SPECIFICATIONS WITH EMS SHEETS AND FINAL LOCATION WITH EMS CONTRACTOR.
3 EQUIPMENT WITHIN THIS BOUNDARY IS PART OF THE INTEGRATED POWERWALL EQUIPMENT. REFER TO DETAIL 2 SHEET E400.
4 EQUIPMENT WITHIN THIS BOUNDARY IS PART OF THE INTEGRATED POWERWALL EQUIPMENT. REFER TO DETAIL 3 SHEET E400.
5 CONDUITS AND CONDUCTORS PROVIDED BY LANDLORD.
6 INTERLOCK SHUNT TRIP BREAKER WITH HOOD FIRE SUPRESSION SYSTEM.
7 COORDINATE GFR TRIP SETTING WITH MANUFACTURER'S FACTORY REPRESENTATIVE AND LANDLORD'S ELECTRICAL CONTRACTOR.



CIRCUIT SCHEDULE:

ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATION AND COPPER CONDUCTORS WITH TYPE THHN/THWN-2 INSULATION. WHERE ALUMINUM CONDUCTORS ARE ALLOWED PER SPECIFICATIONS AND FOR TERMINATION OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES ACCORDING TO NFPA 70.

FEEDER TAG	FEEDER DESCRIPTION
22	(2)#12, (1)#12G, 1/2" C
23	(3)#12, (1)#12G, 1/2" C
33	(3)#10, (1)#10G, 1/2" C
43	(3)#8, (1)#10G, 3/4" C
73	(3)#4, (1)#8G, 1" C
123	(3)#1, (1)#6G, 1-1/2" C
173	(3)#2/0, (1)#6G, 1-1/2" C
223	(3)#4/0, (1)#4G, 2" C
224	(4)#4/0, (1)#4G, 2-1/2" C
253	(3)-250kcmil, (1)#4G, 2-1/2" C
263	(3)-350kcmil, (1)#4G, 3" C
273	(2) 2" C, EACH W/ (3)#2/0, (1)#3G
604	(2) 3" C, EACH W/ (4)-350kcmil, (1)#1G
ETR	EXISTING TO REMAIN
G150	#6 COPPER GROUND, 3/4" C
G300	#2 COPPER GROUND, 3/4" C
G500	#1/0 COPPER GROUND, 3/4" C
G800	#2/0 COPPER GROUND, 3/4" C
G900	#3/0 COPPER GROUND, 3/4" C
MBJ	MAIN BONDING JUMPER, EXISTING
T104	(4)#3, (1)#6G, 1-1/4" C
T124	(4)#1, (1)#6G, 1-1/2" C
T154	(4)#1/0, (1)#6G, 2" C
T224	(4)#4/0, (1)#2G, 2-1/2" C
T404	(2) 2" C, EACH W/ (4)#3/0, (1)#2G
T604	(2) SETS (4)-350kcmil, (1)#1G
TG0	#1/0 cu
VT204	(4) #3/0, (1)#6 G, 2" C
VT404	(4) #500KCMIL, (1)#3 G, 4" C

1 ELECTRICAL ONE-LINE DIAGRAM
NTS

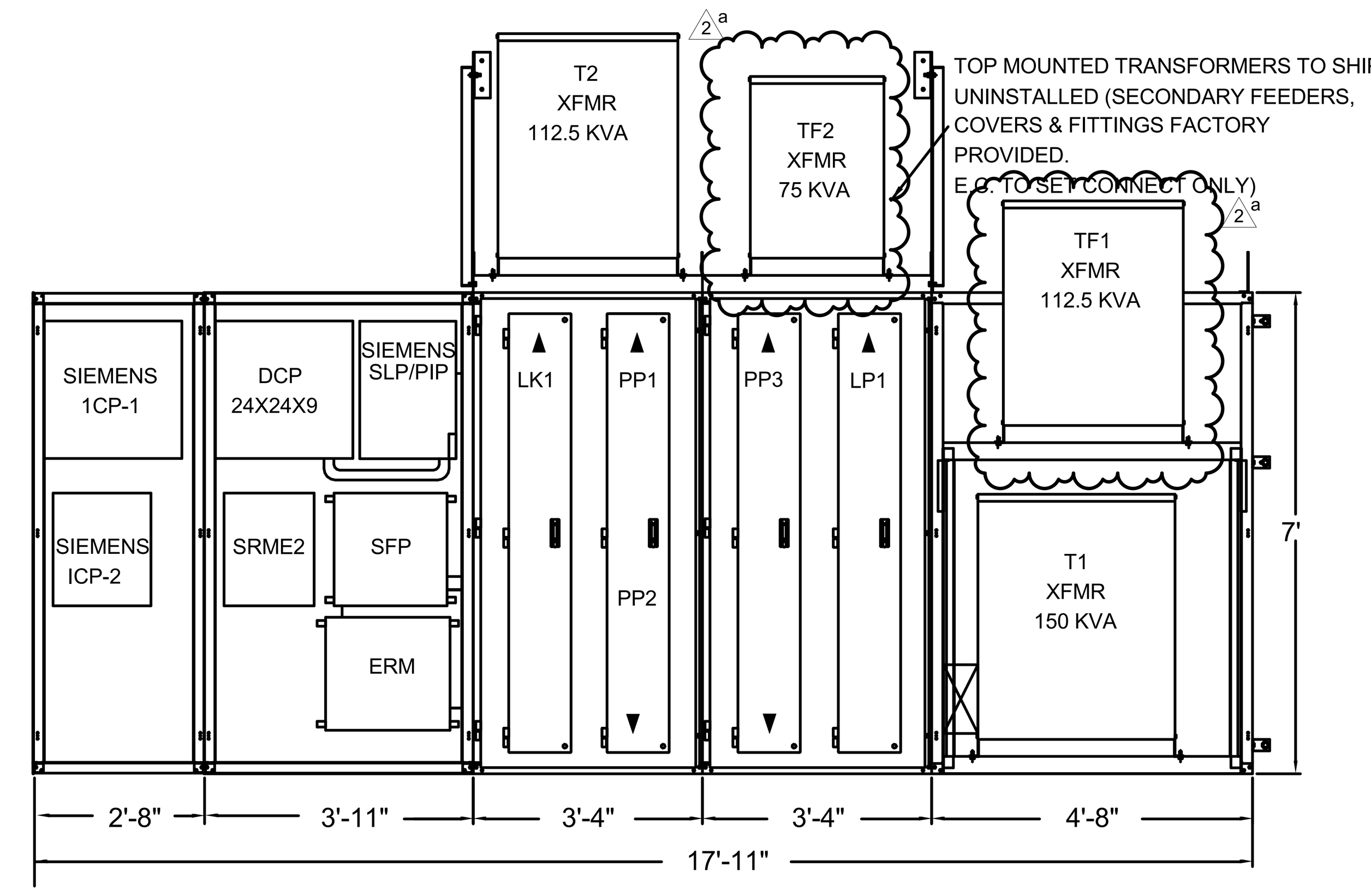
UTILITY TRANSFORMER:
SECONDARY 480Y/277V, PAD MOUNT
INFORMATION RECEIVED FROM LANDLORD SHELL DRAWINGS
AVAILABLE FAULT CURRENT AT MSB IS: 40,355 AIC
ELECTRICAL CONTRACTOR TO CONFIRM WITH UTILITY COMPANY THE AVAILABLE FAULT CURRENT PRIOR TO RELEASE OF ELECTRICAL GEAR PACKAGE.

ALL ELECTRICAL GEAR TO BE FURNISHED BY 365. ELECTRICAL CONTRACTOR TO INSTALL AND CONNECT COMPLETE.

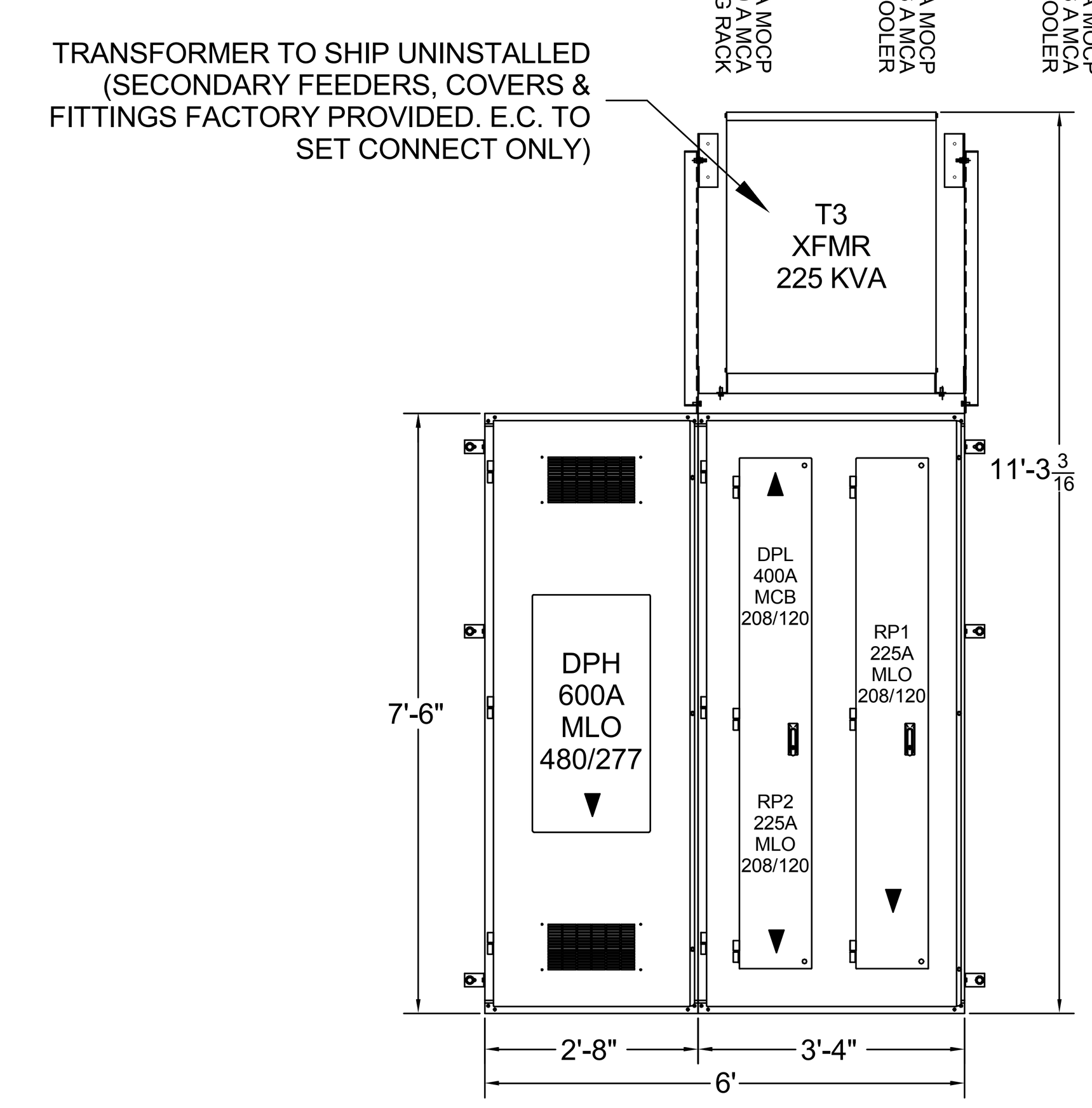
ELECTRICAL CONTRACTOR TO PROVIDE ALL BREAKERS AND HARDWARE REQUIRED FOR MODIFICATION OF EXISTING SWITCHBOARDS AND PANELBOARDS.

VOLTAGE DROP CALCULATION RESULTS

FROM	TO	VOLTAGE	PHASE	# WIRES	DISTANCE	LOAD	VOLATGE DROP	TOTAL VOLTAGE DROP	TOTAL DIFFERENCE
EXISTING XFMR	PANEL MSB	480	3	4	25'	731A	0.27V	0.27V	0.06%
PANEL MSB	PANEL MDP	480	3	4	25'	731A	0.37V	0.64V	0.13%
PANEL MDP	PANEL M	480	3	4	10'	372A	0.38V	1.02V	0.21%
PANEL MDP	PANEL DPH	480	3	4	50'	297A	0.58V	0.86V	0.18%
PANEL MDP	XFMR T	480	3	4	10'	46A	0.09V	0.73V	0.15%
PANEL MDP	XFMR T1	480	3	4	20'	372A	0.40V	1.04V	0.22%
PANEL MDP	XFMR T2	480	3	4	25'	259A	0.55V	1.19V	0.25%
XFMR T	PANEL L	208	3	4	10'	46A	0.05V	0.05V	0.02%
XFMR T1	PANEL LP1	208	3	4	15'	124A	0.53V	0.53V	0.26%
XFMR T1	PANEL PP1	208	3	4	15'	80A	0.42V	0.42V	0.20%
XFMR T1	PANEL PP2	208	3	4	15'	77A	0.27V	0.27V	0.13%
XFMR T1	PANEL PP3	208	3	4	15'	91A	0.15V	0.15V	0.07%
XFMR T2	PANEL LK1	208	3	4	15'	259A	0.25V	0.25V	0.12%



2 POWERWALL #1 DETAIL
NTS



3 POWERWALL #2 DETAIL
NTS

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name
365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

05/21/2018

Sheet Title
ELECTRICAL ONE-LINE DIAGRAM

Sheet No. **E400**

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POWER-SWITCHING PANELBOARD NOTES:

POWER-SWITCHING PANELBOARDS ON THIS SHEET ARE INTENDED TO BE REMOTELY CONTROLLED BY SIEMENS CONTROLLER. CONTROL METHOD TO BE BY BACNET IP FROM SIEMENS CONTROLLER. CONFIRM INTEGRATION BETWEEN SIEMENS AND POWER-SWITCHING BREAKER CONTROLLER. REFER TO "EM" SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE: POWER-SWITCHING PANELBOARD CONTROLLER TO BE FACTORY PROGRAMMED TO FAIL TO LIGHTS ON.

NOE: POWER-SWITCHING BREAKERS TO BE FACTORY PROGRAMMED PER DETAILS ON SHEET E110.

NOTE: CONTRACTOR TO INCLUDE FACTORY STARTUP IF CONTRACTOR HAS NOT PREVIOUSLY PROGRAMMED POWER-SWITCHING PANELBOARDS.

EATON CUTLER HAMMER NOTES:
- MINIMUM OF POW-R-COMMAND 2000E SERIES

SQUARE D NOTES:
- MINIMUM OF POWER LINK G3000 SERIES

PANELBOARD: MDP

EXISTING PANEL

BUS AMPS:	1600 A	MANUFACTURER:	Square D
MAIN SIZE/TYPE:	1600 M.C.B.	AIC RATING:	100,000
VOLTS/PHASE:	480Y/277 V, 3PH, 4W	SERVES:	N/A
SUPPLIED BY:		MOUNTING:	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1							103228	5944											2
3	EXISTING PANEL "M"		EX	EX	400	3			103228	4491			3	200	EX	EX		EXISTING TRANSFORMER "T"	4
5											103228	5190							6
7							22159	40158											8
9	TRANSFORMER "T1"		-	-	250	3			21635	33909			3	175		-		TRANSFORMER "T2"	10
11											23353	44905							12
13							0	0											14
15	TRANSFORMER "TF1"		-	-	175	3			0	0			3	125		-		TRANSFORMER "TF2"	16
17											0	0							18
19							1667	8868											20
21	COMPACTOR		-	-	30	3			1667	8868			3	40	-	-		DISHWASHER	22
23											1667	8868							24
25							6000	0											26
27	BOOSTER HEATER		-	-	30	3			6000	0			3	20	--	--	--	SPARE	28
29											6000	0							30
31							0	0					--	--	--	--	--	EQUIPPED SPACE	32
33	SPARE	--	--	--	20	3			0	0									34
35											0	0	3	20	--	--	--	SPARE	36
37	EQUIPPED SPACE	--	--	--	--	--	0	0											38
39									14667	0			--	--	--	--	--	EQUIPPED SPACE	40
41	ELEVATOR		EX	EX	150	3					14667	0							42
43							14667	0					3	30	-	-		BALER	44
45									933	0									46
47	SIEMENS/PARASENSE POWER MONITORING		-	-	20	3					933	0	--	--	--	--	--	EQUIPPED SPACE	48
49							933	0					--	--	--	--	--	EQUIPPED SPACE	50
51	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	52
53	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	54
						TOTAL LOAD (VA):	203623 VA		195397 VA		208810 VA								
						TOTAL AMPS:	740 A		705 A		758 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HEATING	32000 VA	100.00%	32000 VA
HVAC	277110 VA	100.00%	277110 VA
KITCHEN	67786 VA	65.00%	44061 VA
LIGHTING	35558 VA	125.00%	44448 VA
MISC EQUIP	56568 VA	100.00%	56568 VA
MOTORS	44000 VA	100.00%	44000 VA
Other	120 VA	100.00%	120 VA
Power	44604 VA	100.00%	44604 VA
RECEPTACLES	23010 VA	71.73%	16505 VA
REFRIGERATION	27074 VA	100.00%	27074 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	607830 VA
TOTAL ESTIMATED DEMAND:	586489 VA
TOTAL CONNECTED CURRENT:	731 A
TOTAL ESTIMATED DEMAND...	705 A

PANELBOARD: M

EXISTING PANEL

BUS AMPS:	400 A	MANUFACTURER:	Square D
MAIN SIZE/TYPE:	MLO	AIC RATING:	42,000 SERIES RATED
VOLTS/PHASE:	480Y/277 V, 3PH, 4W	SERVES:	N/A
SUPPLIED BY:	MDP	MOUNTING:	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1							22974	22974											2
3	RTU-1 (EXISTING)		EX	EX	90	3			22974	22974			3	90	EX	EX		RTU-2 (EXISTING)	4
5											22974	22974							6
7							3824	5737											8
9	RTU-3 (EXISTING)		EX	EX	20	3			3824	5737			3	25	EX	EX		RTU-4 (EXISTING)	10
11											3824	5737							12
13							3824	5737											14
15	RTU-5 (EXISTING)		EX	EX	20	3			3824	5737			3	15	EX	EX		RTU-6 (EXISTING)	16
17											3824	5737							18
19							9699	3547											20
21	RTU-7 (EXISTING)		EX	EX	45	3			9699	3547			3	25	EX	EX		RTU-8 (EXISTING)	22
23											9699	3547							24
25							3824	8000											26
27	RTU-9 (EXISTING)		EX	EX	20	3			3824	8000			3	20	EX	EX		AIR CURTAIN HEATER	28
29											3824	8000							30
31							2667	2107											32
33	AIR CURTAIN HEATER		EX	EX	20	3			2667	2107			3	20	EX	EX		BP-1	34
35											2667	2107							36
37							8314	0					--	--	--	--	--	EQUIPPED SPACE	38
39	RTU-10 (EXISTING)				40	3			8314	0			--	--	--	--	--	EQUIPPED SPACE	40
41											8314	0	--	--	--	--	--	EQUIPPED SPACE	42
						TOTAL LOAD (VA):	103228 VA		103228 VA		103228 VA								
						TOTAL AMPS:	373 A		373 A		373 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HEATING	32000 VA	100.00%	32000 VA
HVAC	271362 VA	100.00%	271362 VA
MISC EQUIP	6321 VA	100.00%	6321 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
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IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	309683 VA
TOTAL ESTIMATED DEMAND:	309683 VA
TOTAL CONNECTED CURRENT:	372 A
TOTAL ESTIMATED DEMAND...	372 A

PANELBOARD: L

EXISTING...

BUS AMPS:	225 A	MANUFACTURER:	Square D
MAIN SIZE/TYPE:	225A M.C.B.	AIC RATING:	10,000
VOLTS/PHASE:	208Y/120 V...	SERVES:	N/A
SUPPLIED BY:	T	MOUNTING:	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT TNOT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT TNOT...	DESCRIPTION	CKT NO.
1	TELEPHONE BOARD		EX	EX	20	1	380	200					1	20	EX	EX		TIME CLOCK	2
3	FACP		EX	EX	20	1			200	915			2	20	EX	EX		AIR CURTAIN FAN	4
5	AIR CURTAIN FAN		EX	EX	20	2					915	915							6
7							915	949					1	20	EX	EX		EXTERIOR LIGHTING	8
9	ROOF RECEPTACLES		EX	EX	20	1			900	900			1	20	EX	EX		RECEPTACLES	10
11	OUTER DOCK DOOR		EX	EX	20	1					500	500	1	20	EX	EX		INNER DOCK DOOR	12
13	DOCK LEVELER		EX	EX	20	1	500	500					1	20	EX	EX		AUXILIARY ELEVATOR POWER	14
15	SP-1		EX	EX	20	1			500	396			1	20	EX	EX		EXTERIOR LIGHTING	16
17	ELEVATOR PIT OUTLET		EX	EX	20	1					180	500	1	20	EX	EX		VESTIBULE LIGHTING	18
19	AUTOMATIC DOORS		EX	EX	20	1	1500	500					1	20	EX	EX		ADDITIONAL VESTIBULE LIGHTING	20
21	VESTIBULE OUTLET		EX	EX	20	1			180	500			1	20	EX	EX		VESTIBULE LIGHTING	22
23	AUTOMATIC DOORS		EX	EX	20	1					1500	180	1	20	EX	EX		VESTIBULE OUTLET	24
25	ADDITIONAL VESTIBULE LIGHTING		EX	EX	20	1	500	0					1	20	--	--	--	SPARE	26
27	SPARE	--	--	--	20	1			0	0			1	20	--	--	--	SPARE	28
29	SPARE	--	--	--	20	1					0	0	1	20	--	--	--	SPARE	30
31	SPARE	--	--	--	20	1	0	0					1	20	--	--	--	SPARE	32
33	SPARE	--	--	--	20	1			0	0			1	20	--	--	--	SPARE	34
35	SPARE	--	--	--	20	1					0	0	1	20	--	--	--	SPARE	36
37	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	38
39	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	40
41	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	42
						TOTAL LOAD (VA):	5944 VA		4491 VA		5190 VA								
						TOTAL AMPS:	50 A		37 A		44 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	3660 VA	100.00%	3660 VA
LIGHTING	3345 VA	125.00%	4181 VA
RECEPTACLES	2340 VA	100.00%	2340 VA
MISC EQUIP	6280 VA	100.00%	6280 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	15625 VA
TOTAL ESTIMATED DEMAND:	16461 VA
TOTAL CONNECTED CURRENT:	43 A
TOTAL ESTIMATED DEMAND...	46 A

PANELBOARD: LP1

BUS AMPS:	225 A	MANUFACTURER:	Square D
MAIN SIZE/TYPE:	150 A MCB	AIC RATING:	10,000
VOLTS/PHASE:	208Y/120 V, 3PH, 4W	SERVES:	N/A
SUPPLIED BY:	T1	MOUNTING:	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1	DESTRAT FANS 1	C2,L9	10	10	20	1	470	350					1	20	10	10	C2,L9	DESTRAT FANS 2	2
3	DESTRAT FANS 3	C2,L9	10	10	20	1			350	1200			1	20	10	6	L6	EXTERIOR SIGNAGE 1	4
5	EXTERIOR SIGNAGE 2	L6	6	10	20	1					1200	1438	1	20	12	12	L1	SEATING LIGHTING	6
7	SALES FLOOR LIGHTING	L1	12	12	20	1	814	889					1	20	12	12	L1	CHECKSTAND/SEATING LIGHTING	8
9	SALES FLOOR LIGHTING	L1	12	12	20	1			1214	1808			1	20	12	12	L2	FOOD BAR LIGHTING	10
11	SALES FLOOR LIGHTING	L1	12	12	20	1					1033	713	1	20	12	12	L1	SALES FLOOR LIGHTING	12
13	SALES FLOOR LIGHTING	L1	12	12	20	1	1289	885					1	20	12	12	L1	SALES FLOOR LIGHTING	14
15	SALES FLOOR LIGHTING	L1	10	10	20	1			1452	1010			1	20	12	12	L1	SALES FLOOR LIGHTING	16
17	SALES FLOOR LIGHTING	L1	12	12	20	1					1058	1129	1	20	12	12	L1	SALES FLOOR LIGHTING	18
19	RECEIVING LIGHTING		12	12	20	1	527	865					1	20	12	12	L5	PANTRY LIGHTING 1	20
21	VEG VALLEY LIGHTING 1	L4	12	12	20	1			810	808			1	20	12	12	L4	VEG VALLEY LIGHTING 2	22
23	OFFICE AND BREAKROOM LIGHTING	L3	12	12	20	1					1187	1457	1	20	12	12		COOLER AND FREEZER LIGHTING	24
25	CRISPER LIGHTING		12	12	20	1	354	372					1	20	12	12		DAIRY COOLER LIGHTING	26
27	PANTRY LIGHTING 2	L5	12	12	20	1			563	718			1	20	12	12		LIGHTING	28
29	LIGHTING - MEZZANINE		10	10	20	1					1092	1256	1	20	12	12		MEZZANINE/STAIRWELL LIGHTING	30
31	KITCHEN LIGHTING	L3	12	12	20	1	749	757					1	20				LIGHTING	32
33	SCULLERY/MEAT KITCHEN LIGHTING		12	12	20	1			638	1200			1	20	12	12	L6	EXTERIOR SIGNAGE 3	34
35	EXTERIOR SIGNAGE 4	L6	12	12	20	1					1200	1238	1	20				LIGHTING	36
37	FRIENDS LIGHTING 1	L1	12	12	20	1	585	0					1	20	--	--	--	SPARE	38
39	FRIENDS LIGHTING 2	L1	12	12	20	1			905	0			1	20	--	--	--	SPARE	40
41	EQUIPPED SPACE	--	--	--	--	--					0	0	1	20	--	--	--	SPARE	42
						TOTAL LOAD (VA):	8906 VA		12676 VA		14001 VA								
						TOTAL AMPS:	74 A		110 A		122 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
LIGHTING	32013 VA	125.00%	40016 VA
MISC EQUIP	2400 VA	100.00%	2400 VA
Other	120 VA	100.00%	120 VA
RECEPTACLES	1050 VA	100.00%	1050 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	35583 VA
TOTAL ESTIMATED DEMAND:	43586 VA
TOTAL CONNECTED CURRENT:	99 A
TOTAL ESTIMATED DEMAND...	121 A

PANELBOARD: LK1

BUS AMPS:	400 A	MANUFACTURER:	Square D
MAIN SIZE/TYPE:	400A M.C.B.	AIC RATING:	10,000
VOLTS/PHASE:	208Y/120 V, 3PH, 4W	SERVES:	N/A
SUPPLIED BY:	T2	MOUNTING:	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1	REFRIG. PRODUCE BINS 1 (FUTURE)		10	10	20	2	1331	1331					2	20	10	10		REFRIG. PRODUCE BINS 2 (FUTURE)	2
3									1331	1331									4
5	REFRIG. PRODUCE BINS 3		10	10	20	2					1331	1331	2	20	10	10		REFRIG. PRODUCE BINS 4	6
7							1331	1331											8
9	REFRIG. PRODUCE BINS 5		10	10	20	2			1331	1331			2	20	10	10		REFRIG. PRODUCE BINS 6	10
11											1331	1331							12
13	SPARE	--	--	--	20	1	0	323					2	20	10	10		COLD BAR (2 HOTS + 1 NEUTRAL)	14
15									1117	323									16
17	MEAT SAW		10	10	20	3					1117	1383	2	20	10	10		COLD BAR (2 HOTS + 1 NEUTRAL)	18
19							1117	1383											20
21	SPARE	--	--	--	20	1			0	1920			1	20	10	10		BLAST CHILLER	22
23	KITCHEN SCALE		12	12	20	1					420	960	1	20	12	12		FAT TESTER/ RCPTS	24
25	PREP TABLE 2		12	12	20	1	420	600					1	20	12	12		KITCHEN COUNTER RCPTS	26
27	PREP TABLE 3		12	12	20	1			360	800			1	20	12	12		MEAT WRAP/LABEL SYSTEM	28
29	COLD FLIP TOP TABLE 1		10	10	20	1					1728	1033							30
31	COLD FLIP TABLE 2		10	10	20	1	1728	1033					3	20	12	12		MEAT CHOPPER	32
33	SPARE	--	--	--	20	1			0	1033									34
35	ROTISSERIE 1		6	8	50	2					5944	0	1	20	--	--	--	SPARE	36
37							5944	720					1	20	12	12		SLICERS	38
39	SHUNT TRIP SPACE	--	--	--	--	--			0	1920			1	20	10	10		HOT HOLD CABINET 1	40
41	ROTISSERIE 2		6	8	50	2					5944	1920	1	20	10	10		HOT HOLD CABINET 2	42
43							5944	900					1	20	12	12		COLD TABLE PREP	44
45	SHUNT TRIP SPACE	--	--	--	--	--			0	0			1	20	--	--	--	SPARE	46
47	GRIDDLE/BROILER		12	12	20	1					360	900	1	20	12	12		KITCHEN BUG ZAPPER	48
49	SHUNT TRIP SPACE	--	--	--	--	--	0	360					1	20	12	12		SCALE	50
51	CONVENTION OVEN 1		10	10	20	1			960	2402									52
53	SHUNT TRIP SPACE	--	--	--	--	--					0	2402	3	80	4	2		HOT BAR (3 HOTS + 1 NEUTRAL)	54
55	CONVENTION OVEN 2		10	10	20	1	960	2402											56
57	SHUNT TRIP SPACE	--	--	--	--	--			0	2667									58
59	DOUBLE STACK STEAMER		12	12	20	1					720	2667	3	30	10	8		PIZZA OVEN 1	60
61	SHUNT TRIP SPACE	--	--	--	--	--	0	2667											62
63	PIZZA SOUP BAR (2 HOTS + 1 NEUTRAL)		6	10	50	2			6750	0			--	--	--	--	--	SHUNT TRIP SPACE	64
65											6750	2667							66
67	HIGH SPEED OVEN		8	10	30	2	3000	2667					3	30	10	8		PIZZA OVEN 2	68
69									3000	2667									70
71	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	SHUNT TRIP SPACE	72
73	EQUIPPED SPACE	--	--	--	--	--	0	2667											74
75	EQUIPPED SPACE	--	--	--	--	--			0	2667			3	30	10	8		PIZZA OVEN 3	76
77	EQUIPPED SPACE	--	--	--	--	--					0	2667							78
79	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	SHUNT TRIP SPACE	80
81	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	82
83	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	84
						TOTAL LOAD (VA):	40158 VA		33909 VA		44905 VA								
						TOTAL AMPS:	343 A		283 A		382 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
KITCHEN	67786 VA	65.00%	44061 VA
MISC EQUIP	24537 VA	100.00%	24537 VA
RECEPTACLES	4400 VA	100.00%	4400 VA
REFRIGERATION	22248 VA	100.00%	22248 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	118971 VA
TOTAL ESTIMATED DEMAND:	95246 VA
TOTAL CONNECTED CURRENT:	330 A
TOTAL ESTIMATED DEMAND...	264 A

PANEL NOTES LEGEND:
EM -EMERG LTG HANDLE-ON CLAMP
EX -EXISTING BY LANDLORD
F -FUTURE CONNECTION
FA -RED/HANDLE-ON CLAMP
GF -GFCI TYPE CIRCUIT BREAKER
L# -LIGHTING CONTROL SCHEME, REF SHEET E110
LCK-HANDLE PADLOCKABLE-OFF DEVICE
LO -HANDLE-ON CLAMP
OL -REFER TO ONE-LINE DIAGRAM
PS -POWER SWITCHING BREAKER
PSE-POWER SWITCHING EMERGENCY BREAKER
ST -SHUNT TRIP

ALL ELECTRICAL GEAR TO BE FURNISHED BY 365. ELECTRICAL CONTRACTOR TO INSTALL AND CONNECT COMPLETE.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

05/21/2018

Sheet Title: ELECTRICAL PANEL SCHEDULES

Sheet No. E401

5/21/2018 4:49:54 PM

PANELBOARD: PP1

BUS AMPS: 100 A		**MANUFACTURER:**	Square D
MAIN SIZE/TYPE: 100A M.C.B.		**AIC RATING:**	10,000
VOLTS/PHASE: 208Y/120 V, 3PH, 4W		**SERVES:**	N/A
SUPPLIED BY: T1		**MOUNTING:**	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUI T...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUI T...	DESCRIPTION	CKT NO.
1	RECEIVING RCPTS		12	12	20	1	730	1080					1	20	12	12		RECEIVING DESK RCPTS	2
3	RECEIVING PRINTER		12	12	20	1			720	200			1	20	12	12		DOCK DOOR LIGHT	4
5	POWER JACK		12	12	20	1					600	540	1	20	12	12		COUNTING RCPTS 1	6
7	COUNTING RCPTS 2		12	12	20	1	540	720					1	20	10	10		OFFICE SWITCHED RCPTS 1	8
9	STL/LEADER COMPUTER 2		12	12	20	1			540	540			1	20	12	12		STL/LEADER COMPUTER 1	10
11	STL/LEADER PRINTER		12	12	20	1					180	900	1	20	10	10		OFFICE SWITCHED RCPTS 2	12
13	MEETING/LEADERS RCPTS		8	10	20	1	1440	720					1	20	10	8		LEADERS PRINTER 1	14
15	LEADERS COMPUTERS 1		10	10	20	1			720	1080			1	20	10	10		LEADERS COMPUTERS 2	16
17	BREAK ROOM RCPTS 1		6	10	20	1					1080	1020	1	20	10	8		REFRIGERATOR	18
19	MICROWAVE		8	10	20	1	1000	360					1	20	12	12		BREAK ROOM COUNTER RCPTS	20
21	TIME CLOCK/BREAK ROOM RCPTS		8	10	20	1			900	400			1	20	10	10		TELECOM 1	22
23	NETWORK RACK 1		10	10	20	1					800	400	1	20	10	10		TELECOM 2	24
25	NETWORK RACK 2		10	10	20	1	800	180					1	20	12	12		SECURITY ALARM PANEL	26
27	PANTRY RCPTS		12	12	20	1			360	360			1	20	12	12		SECURITY RCPTS	28
29	EWC		12	12	20	1					1000	1080	1	20	10	10		RESTROOM RCPTS	30
31	WOMENS HAND DRYER		6	10	20	1	1800	1800					1	20	10	6		MENS HAND DRYER	32
33	ROOF RECEPTACLES		12	12	20	1			360	696			1	20	12	12		EF-1	34
35	EF-2		12	12	20	1					696	696	1	20	12	12		EF-3	36
37	CU-1/FC-1		12	12	20	2	1903	180					1	20	12	12		WINE KIOSK RECEPTACLES	38
39									1903	180			1	20	12	12		WINE KIOSK RECEPTACLES	40
41	WINE KIOSK RECEPTACLES		2	2	20	1					180	180	1	20	12	12		WINE KIOSK RECEPTACLES	42
						TOTAL LOAD (VA):	13253 VA		8959 VA		9352 VA								
						TOTAL AMPS:	111 A		75 A		78 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	2088 VA	100.00%	2088 VA
LIGHTING	200 VA	125.00%	250 VA
MISC EQUIP	9230 VA	100.00%	9230 VA
RECEPTACLES	15220 VA	82.85%	12610 VA
REFRIGERATION	4826 VA	100.00%	4826 VA

PANELBOARD NOTES:

AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	31564 VA
TOTAL ESTIMATED DEMAND:	29004 VA
TOTAL CONNECTED CURRENT:	88 A
TOTAL ESTIMATED DEMAND...	81 A

PANELBOARD: PP2

BUS AMPS: 225 A		**MANUFACTURER:**	Square D
MAIN SIZE/TYPE: 125A M.C.B.		**AIC RATING:**	10,000
VOLTS/PHASE: 208Y/120 V, 3PH, 4W		**SERVES:**	N/A
SUPPLIED BY:		**MOUNTING:**	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUI T...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUI T...	DESCRIPTION	CKT NO.
1	CHECKOUT UTILITY 1/2		10	10	20	1	720	720					1	20	10	10		CHECKOUT UTILITY 3/4	2
3	CHECKOUT UTILITY 5/6		8	10	20	1			720	180			1	20	12	12		CHECKOUT REG 1	4
5	CHECKOUT REG 2		12	12	20	1					180	180	1	20	12	12		CHECKOUT REG 3	6
7	CHECKOUT REG 4		12	12	20	1	180	180					1	20	12	12		CHECKOUT REG 5	8
9	CHECKOUT REG 6		12	12	20	1			180	720			1	20	10	8		CHECKOUT UTILITY 7/8	10
11	CHECKOUT UTILITY 9		8	10	20	1					720	360	1	20	12	12		CHECKOUT REG 7	12
13	CHECKOUT REG 8		12	12	20	1	360	360					1	20	12	12		CHECKOUT REG 9	14
15	CHECKOUT REG 10		12	12	20	1			360	1508			2	20	10	10		NUT GRINDER 1	16
17	NUT GRINDER 2		10	10	20	2					1508	1508							18
19							1508	1800					1	20	10	8		SCALES - PRODUCE	20
21	CRISPER RCPTS		12	12	20	1			540	500			1	20	12	12		FLOOR SCRUBBER	22
23	PRODUCE MISTING SYSTEM 2		10	10	20	1					1200	1200	1	20	10	10		PRODUCE MISTING SYSTEM 1	24
25	MICROWAVE		6	10	20	1	1000	540					1	20	10	10		USB SEATING RCPTS 1	26
27	USB SEATING RCPTS 2		6	10	20	1			360	500			1	20	12	12		WATER HEATER	28
29	MEDIA MOOD RECEPTACLE		12	12	20	1					800	500	1	20	12	12		RECIRC PUMP	30
31	COFFEE GRINDER		10	10	20	1	1080	600					1	20	12	12		WATER DISPENSER	32
33	ICE BIN		10	10	20	1			864	600			1	20	12	12		AMAZON LOCKERS	34
35	GUH-1		12	12	20	1					540	300	1	20	12	12		WATER HEATER IGNITION	36
37	EF-4		12	12	20	1	696	1000					1	20	12	12		SATELLITE DE-ICING RECEPTACLE	38
39	HEAT TRACE RECEPTACLE (ROOF)		12	12	20	1			1000	600			1	20	12	12		EMS CONTROL PANEL	40
41	CONVENIENCE OUTLETS		12	12	20	1					1440	500	1	20	12	12		ELECTRIC CART	42
						TOTAL LOAD (VA):	10744 VA		8632 VA		10936 VA								
						TOTAL AMPS:	92 A		72 A		94 A								

2a
1

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
HVAC	696 VA	100.00%	696 VA
KITCHEN	6032 VA	100.00%	6032 VA
MISC EQUIP	6884 VA	100.00%	6884 VA
MOTORS	2400 VA	100.00%	2400 VA
RECEPTACLES	13100 VA	88.17%	11550 VA
REFRIGERATION	1200 VA	100.00%	1200 VA

PANELBOARD NOTES:

AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	30312 VA
TOTAL ESTIMATED DEMAND:	28762 VA
TOTAL CONNECTED CURRENT:	84 A
TOTAL ESTIMATED DEMAND...	80 A

PANELBOARD: PP3

BUS AMPS: 225 A		**MANUFACTURER:**	Square D
MAIN SIZE/TYPE: 225 M.C.B.		**AIC RATING:**	10,000
VOLTS/PHASE: 208Y/120 V, 3PH, 4W		**SERVES:**	N/A
SUPPLIED BY:		**MOUNTING:**	SURFACE
		LOCATION:	RECEIVING

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUI T...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUI T...	DESCRIPTION	CKT NO.
1	CHILLED PROMO COFFIN 1A, 1B (2) 120V...		10	10	20	2	1116	1116					2	20	10	10		CHILLED PROMO COFFIN 1C, 1D(2) 120V...	2
3									1116	1116									4
5	FRESH EATS COFFIN 1A, 1B (2) 120V WIT...		10	10	20	2					1116	1116	2	20	10	10		FRESH EATS COFFIN 1C, 1D(2) 120V WIT...	6
7							1116	1116											8
9	SEA FOOD PROMO COFFIN 1A, 1B (2) 120...		10	10	20	2			1116	1116			2	20	10	10		SEAFOOD PROMO COFFIN 1C, 1D(2) 120...	10
11											1116	1116							12
13	MEAT COFFIN 1A, 1B (2) 120V WITH...		10	10	20	2	1116	1116					2	20	10	10		MEAT COFFIN 1C, 1D(2) 120V WITH...	14
15									1116	1116									16
17	KITCHEN DIGITAL DISPLAY		12	12	20	1					600	900	1	20	10	8		CHECKOUT DISPLAYS	18
19	CRISPER ICE MACHINE		10	10	20	2	1643	1175					2	15	10	10		OLIVE BAR	20
21									1643	1175									22
23	CHEESE CASE 1		6	10	20	1					1920	900	1	20	10	10		MULTI-SCREEN DISPLAY 1	24
25	MULTI-SCREEN DISPLAY 2		10	10	20	1	900	900					1	20	10	10		MULTI-SCREEN DISPLAY 3	26
27	GONDOLA DIGITAL DISPALY 2		8	10	20	1			720	1200			1	20	10	10		MULTI-SCREEN DISPLAY 4	28
29	GONDOLA REFRIGERATOR		12	12	20	1					1380	400	1	20	12	12		MOCHI BIN	30
31	BREAD SLICER		12	12	20	1	500	1920					1	20	10	10		CHEESE CASE 2	32
33	ARCADE GAMES - MEZZANINE		10	10	20	1			1000	900			1	20	10	10		CONVENIENCE RECEPTALES - MEZZANINE	34
35	ARCADE GAMES - MEZZANINE		10	10	20	1					1000	500	1	20	10	10		ARCADE GAMES - MEZZANINE	36
37	ARCADE GAMES - MEZZANINE		10	10	20	1	1000	525					1	20	10	10		HOT TOP - MEZZANINE	38
39	S/C MERCHANDISER - MEZZANINE		10	10	20	2			1030	180			1	20	10	10		P.O.S. - MEZZANINE	40
41											1030	780	1	20	10	10		KEGERATOR - MEZZANINE	42
43	KEGERATOR - MEZZANINE		10	10	20	1	780	780					1	20	10	10		KEGERATOR - MEZZANINE	44
45	KEGERATOR - MEZZANINE		10	10	20	1			780	600			1	20	10	10		TELEVISIONS - MEZZANINE	46
47	EQUIPPED SPACE	--	--	--	--	--					0	0	1	20	--	--	--	SPARE	48
49	EQUIPPED SPACE	--	--	--	--	--	0	0					1	20	--	--	--	SPARE	50
51	EQUIPPED SPACE	--	--	--	--	--			0	0			1	20	--	--	--	SPARE	52
53	EQUIPPED SPACE	--	--	--	--	--					0	0	1	20	--	--	--	SPARE	54
						TOTAL LOAD (VA):	16819 VA		15924 VA		13874 VA								
						TOTAL AMPS:	143 A		135 A		116 A								

2a
1
2a

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
KITCHEN	525 VA	100.00%	525 VA
MISC EQUIP	4020 VA	100.00%	4020 VA
RECEPTACLES	7780 VA	100.00%	7780 VA
REFRIGERATION	34291 VA	100.00%	34291 VA

PANELBOARD NOTES:

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EM - EMERG LTG HANDLE-ON CLAMP
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LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	46616 VA
TOTAL ESTIMATED DEMAND:	46616 VA
TOTAL CONNECTED CURRENT:	129 A
TOTAL ESTIMATED DEMAND...	129 A

2b

PANEL NOTES LEGEND:

EM -EMERG LTG HANDLE-ON CLAMP
EX -EXISTING BY LANDLORD
F -FUTURE CONNECTION
FA -RED/HANDLE-ON CLAMP
GF -GFCI TYPE CIRCUIT BREAKER
L# -LIGHTING CONTROL SCHEME, REF SHEET E110
LCK-HANDLE PADLOCKABLE-OFF DEVICE
LO -HANDLE-ON CLAMP
OL -REFER TO ONE-LINE DIAGRAM
PS -POWER SWITCHING BREAKER
PSE-POWER SWITCHING EMERGENCY BREAKER
ST -SHUNT TRIP

ALL ELECTRICAL GEAR TO BE FURNISHED BY 365. ELECTRICAL CONTRACTOR TO INSTALL AND CONNECT COMPLETE.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No.
62911019

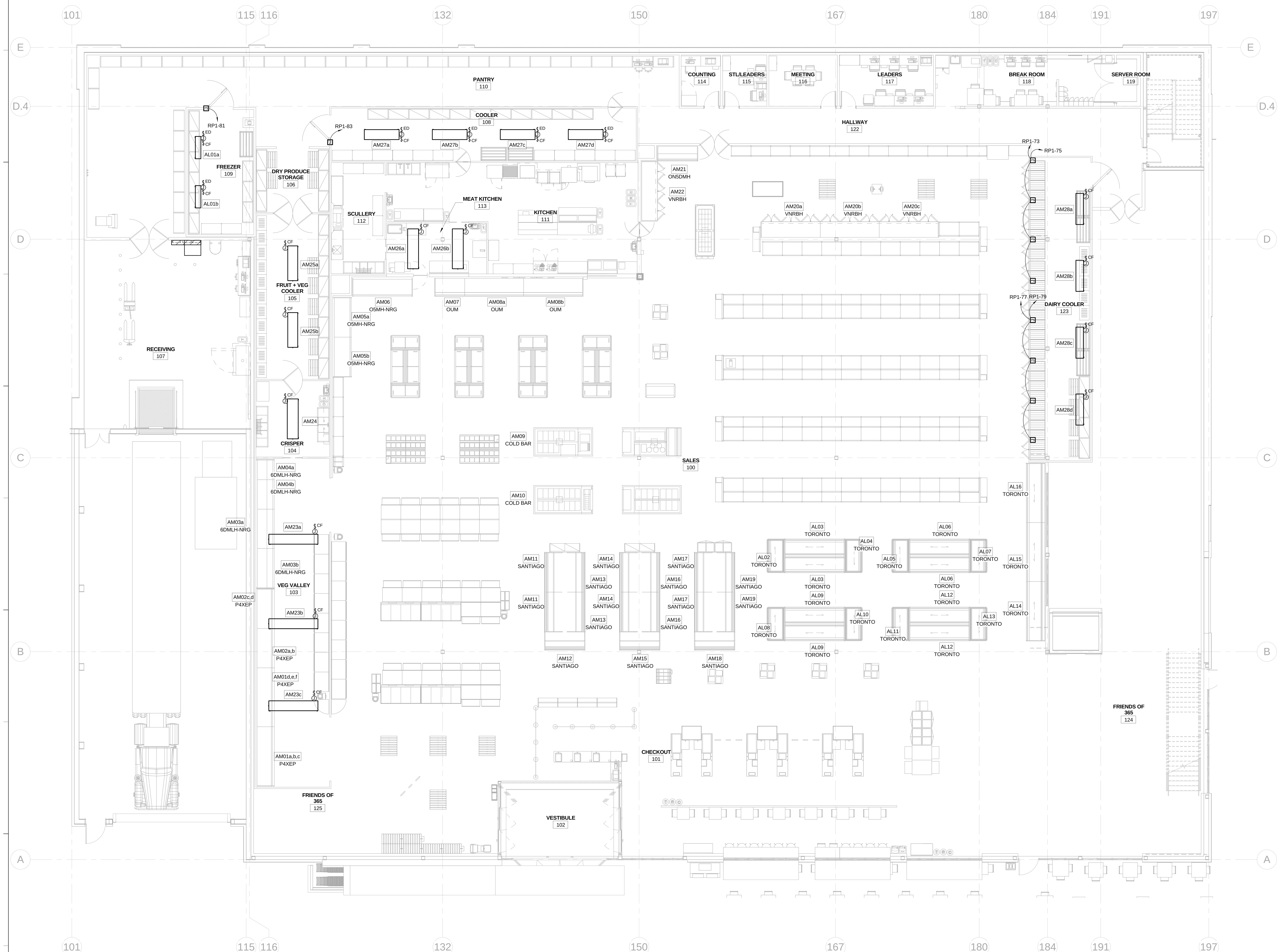
Professional Seal

05/21/2018

Sheet Title
ELECTRICAL PANEL SCHEDULES

Sheet No.
E402

5/21/2018 4:46:36 PM



1 ELECTRICAL REFRIGERATION PLAN
1/8" = 1'-0"

GENERAL ELECTRICAL REGFRIGERATION NOTES:

1. COORDINATE ALL WORK WITH REFRIGERATION CONTRACTOR PRIOR TO INSTALLATION. VERIFY ALL REFRIGERATION SYSTEM NUMBERS, CASE MODEL NUMBERS, AND STUB UPLOCATIONS SHOWN ON THIS DRAWING WITH REFRIGERATION INSTALLATION INSTRUCTIONS AND DRAWINGS.
2. PROVIDE CONNECTION OF ALL CASE FANS, ANTI-SWEAT HEATERS, CASE LIGHTING, ELECTRIC DEFROST AND CONTROL WIRING TO ALL CASES ON SYSTEM AS REQUIRED AND DIRECTED BY REFRIGERATION CONTRACTOR. THIS INCLUDES ALL LINE VOLTAGE WIRING FROM REFRIGERATION RACKS OR PANELBOARDS, THRU CONDUIT TO CASE/COIL LEVEL. WIRING BETWEEN CASES AND CONNECTION TO EACH CASE/ COIL IN THE LINEUP IS BY ELECTRICAL CONTRACTOR. COORDINATE STUB-UP LOCATIONS WITH REFRIGERATION CONTRACTOR PRIOR TO ROUGH-IN.
3. PROVIDE ALL CONDUIT AND WIRE AS INDICATED ON DRAWING. NEATLY BUNDLE CIRCUITS AND CLEARLY TAG AND LABEL EACH CIRCUIT WITH PANELBOARD AND BRANCH CIRCUIT DESIGNATION AND REFRIGERATION SYSTEM NUMBER.
4. ROUTE REFRIGERATED CASE AND COIL FANS, LIGHTS, AND ANTI-SWEAT CIRCUITS TO THEIR RESPECTIVE REFRIGERATION PANELBOARD AS INDICATED.
5. KEEP PENETRATIONS THROUGH COOLER AND FREEZER BOXES TO A MINIMUM. ROUTE ALL CONDUITS SERVING FREEZERS AND COOLERS DIRECTLY OUT OF THE BOX. CONDUIT PENETRATIONS SHALL HAVE A CONDULET AS CLOSE AS POSSIBLE ON THE EXTERIOR SIDE OF THE COOLER OR FREEZER. AVOID ROUTING CONDUIT INSIDE OF THE BOX. IF POSSIBLE, ROUTE DIRECTLY OUT THE REAR OF THE BOX IN AN ORDERLY MANNER. SEAL ALL PENETRATIONS THROUGH BOX WITH SILICON SEALANT AND FILL CONDUIT FITTINGS/SEAL OFFS WITH EXPANDING FOAM SEALANT.
6. ROUTE CONDUITS ADJACENT TO REFRIGERATION PIPING WHEREVER PRACTICAL, UNLESS NOTED OTHERWISE.
7. PROVIDE ALL UNISTRUT SUPPORTS FOR OVERHEAD REFRIGERATION ELECTRICAL CONDUIT WHERE REQUIRED. COORDINATE EXACT QUANTITIES, LOCATIONS AND REQUIREMENTS WITH REFRIGERATION EQUIPMENT INSTALLER.
8. RECTANGLE NOTES INDICATE THE REFRIGERATED CIRCUIT NUMBER AND ASSOCIATED REFRIGERATION UNIT FOR THE REFRIGERATED CASE.
9. ANTI-SWEAT CIRCUITS WILL BE CONTROLLED AT THE CASE BY CONTROLS FURNISHED BY MICRO THERMO. COORDINATE INSTALLATION WITH 365 CONSTRUCTION MANAGER AND MICRO THERMO.
10. VERIFY EXACT ELECTRICAL REQUIREMENTS FOR ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN AND ADJUST ELECTRICAL PROVISIONS AS NECESSARY INCLUDING, BUT NOT LIMITED TO: CONDUIT, CONDUCTOR(S), DISCONNECT, RECEPTACLE, CIRCUIT BREAKER AND TERMINATION.
11. ALL EMPTY CONDUITS SHALL BE INSTALLED WITH PULL WIRES.
12. ALL POWER AND LOW VOLTAGE CONDUITS MAY BE ROUTED BELOW SLAB. COORDINATE ROUTING WITH ALL OTHER TRADES PRIOR TO ROUGH-IN. GENERALLY THE CONDUIT ROUTING SHOULD FOLLOW REFRIGERATION PIPING. REFER TO DETAILS 2 AND 3 ON SHEET E501 FOR ADDITIONAL INFORMATION ON ROUGH-IN DETAILS.
13. PRIOR TO ROUGH-IN OF COMMUNICATION AND ELECTRICAL OUTLETS, COORDINATE WITH WHOLE FOODS AND/OR ARCHITECT FOR FINAL LOCATIONS.
14. ALL BRANCH CIRCUITS SHALL INCLUDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
15. COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING CONDITIONS AS REQUIRED TO PROPERLY INSTALL ALL SYSTEMS AS INTENDED, WITHIN THE CONFINES OF THE SPACE AVAILABLE, AND WITHOUT INTERFERENCES.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants
ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name
365 BY WHOLE FOODS MARKET
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1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

03/06/2018

Sheet Title
ELECTRICAL REFRIGERATION PLAN

Sheet No.
E500

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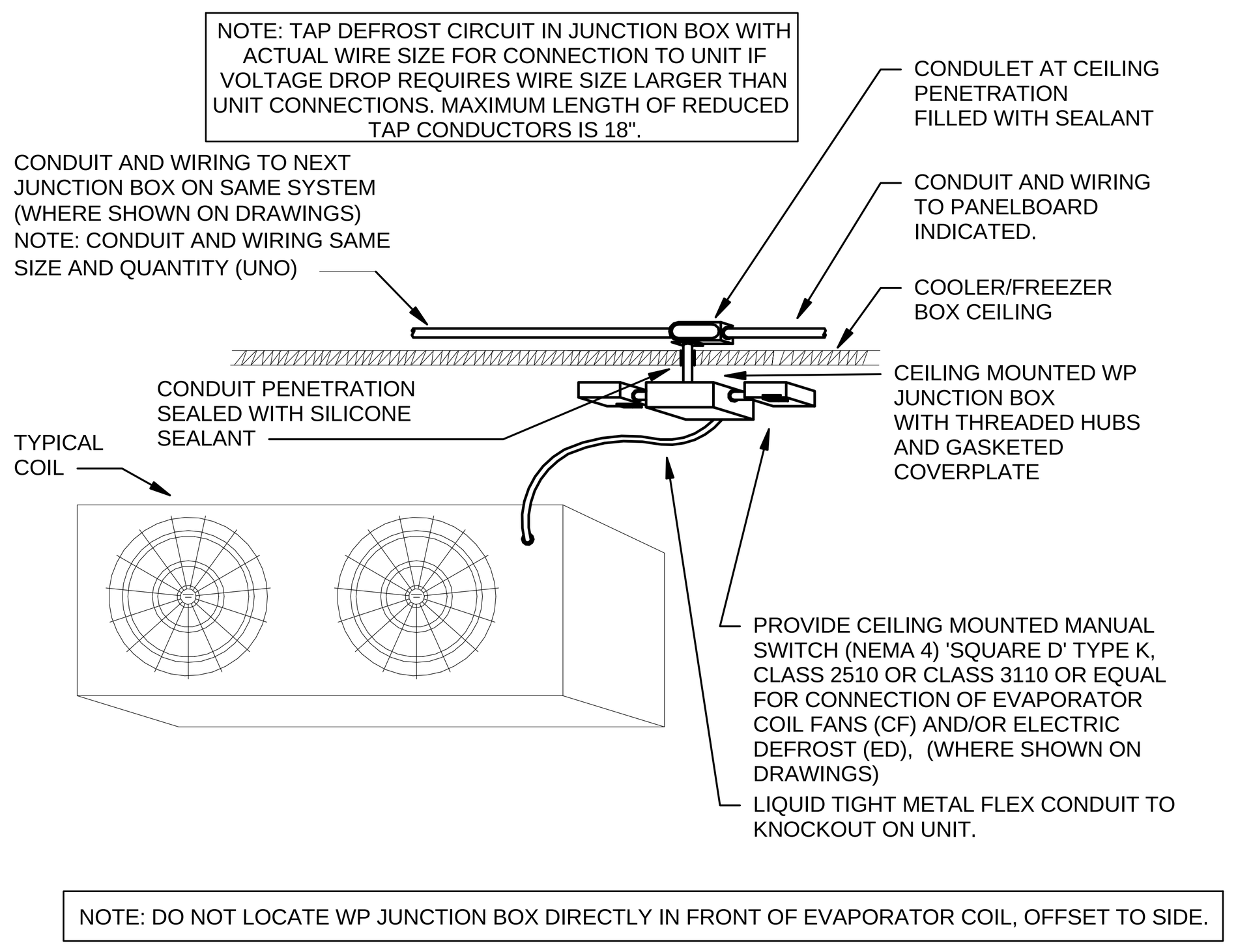
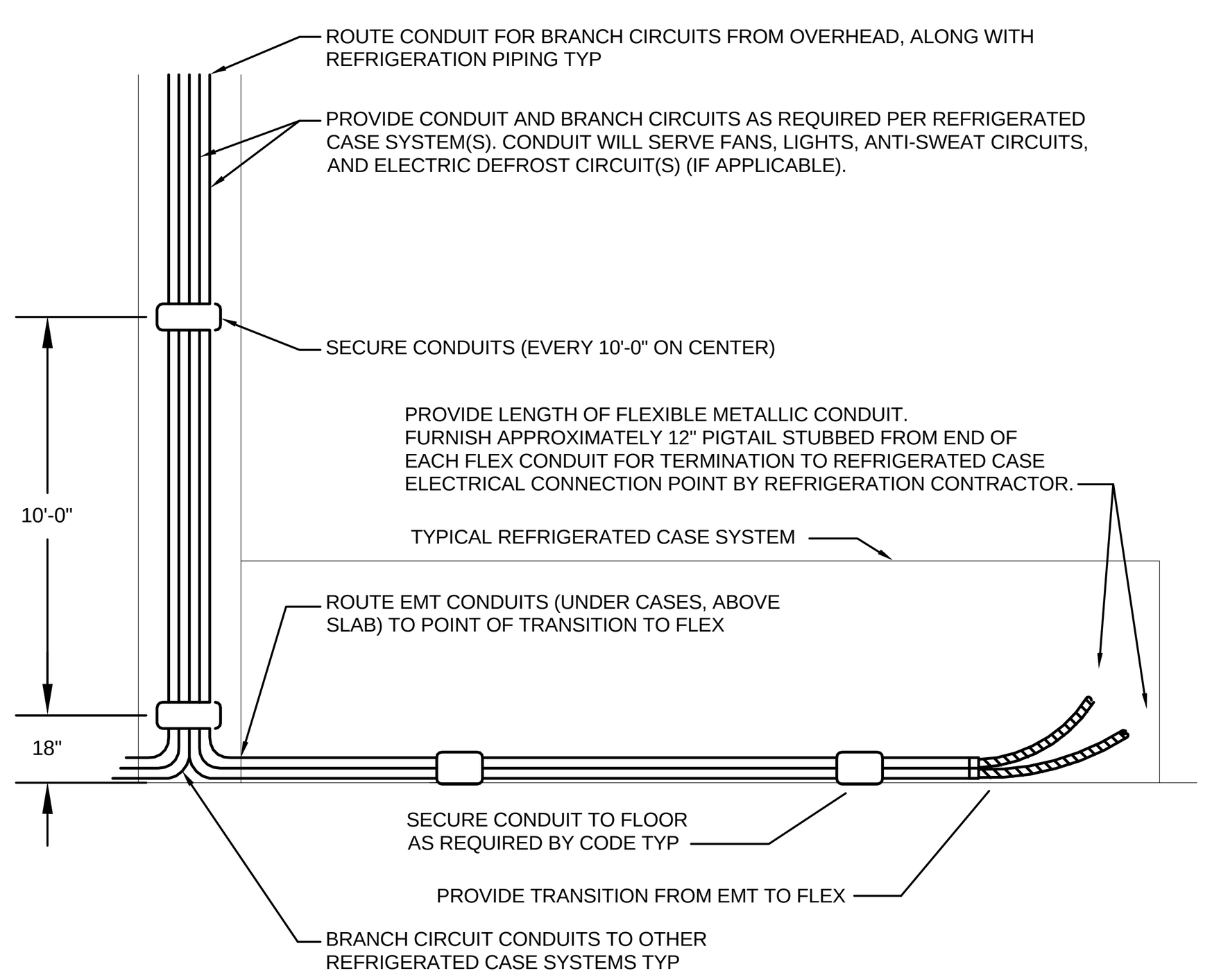
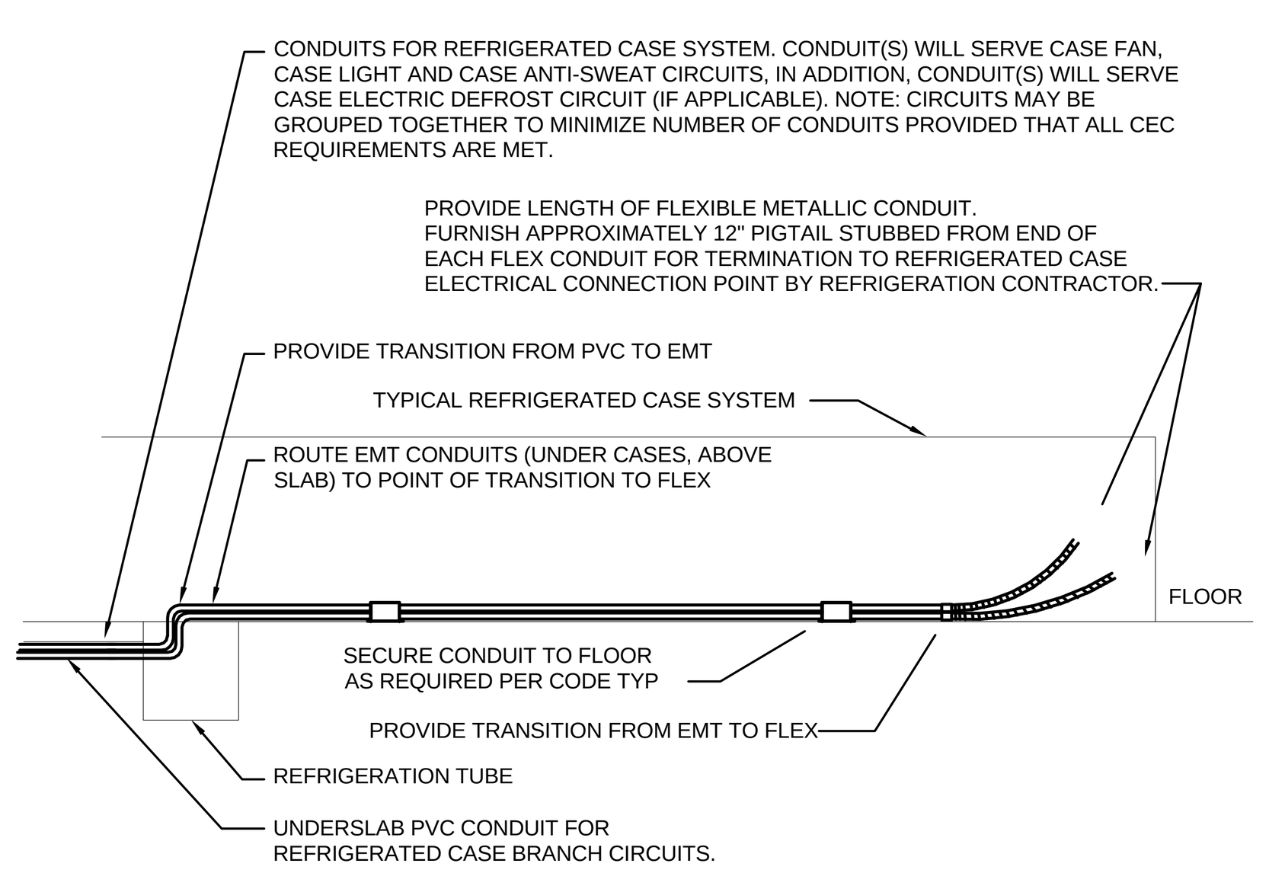


1 EVAPORATOR COIL CONNECTION DETAIL
NTS



2 CASE CONNECTION WIRING
NTS



3 CASE CONNECTION WIRING(U/G)
NTS

ELECTRICAL REFRIGERATION CIRCUIT CALCULATION SCHEDULE - (CASE CONTROLLER MODULE DESIGN)

REFRIGERATION CASE/COIL INFO						CASE/DR LTG	CASE/COIL FAN	A/S HTRS	CASE CONTROLLER TOTAL								DEFROST (ELECTRIC)								
SYSTEM	DESCRIPTION	MFR	MODEL #	SIZE	FT/DRS	AMPS (120V)	AMPS (120V)	AMPS (120V)	CKT (FT)	TOTAL AMPS	VOLTS	PH	VA	VA/PH	WIRE	PNLBD-CKT#	CKT (FT)	AMPS	VOLTS	PH	VA	VA/PH	WIRE	PNLBD-CKT#	SYSTEM
AL01a	FREEZER	RUSSELL	AE54-180B	-	-	0.00	0.00	0.00		0.00	0	0	0	0	10	-		19.60	208	1	4077	2038	-	-	AL01a
			SYSTEM POWER FEED							19.60	208	1	4077	2038	10	RP1-2,4									
AL01b	FREEZER	RUSSELL	AE54-180B	-	-	0.00	0.00	0.00		0.00	0	0	0	0	10	-		19.60	208	1	4077	2038	-	-	AL01b
			SYSTEM POWER FEED							19.60	208	1	4077	2038	10	RP1-6,8									
AL02	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-10,12	AL02
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-5									
AL03	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-14,16	AL03
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-7									
AL04	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-18,20	AL04
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-9									
AL05	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-22,24	AL05
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-11									
AL06	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-26,28	AL06
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-13									
AL07	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-30,32	AL07
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-15									
AL08	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-34,36	AL08
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-17									
AL09	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-38,40	AL09
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-19									
AL10	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-44,46	AL10
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-21									
AL11	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-48,50	AL11
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-23									
AL12	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-52,54	AL12
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-25									
AL13	FROZEN BUNKER	ARNEG	TORONTO	6	FT	0.10	0.60	1.20		1.90	120	1	228	228	12	-		5.61	208	1	1167	583	12	RP1-56,58	AL13
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP1-27									
AL14	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-60,62	AL14
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-29									
AL15	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-64,66	AL15
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-31									
AL16	FROZEN BUNKER	ARNEG	TORONTO	12	FT	0.50	1.80	2.70		5.00	120	1	600	600	12	-		23.58	208	1	4905	2452	10	RP1-68,70	AL16
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP1-33									
AM01a,b,c	PRODUCE CASES	HUSSMANN	P4X-EP	12	FT	0.70	1.80	0.00		2.50	120	1	300	300	12	-									AM01a,b,c
AM01d,e,f	PRODUCE CASES	HUSSMANN	P4X-EP	12	FT	0.70	1.80	0.00		2.50	120	1	300	300	12	-									AM01d,e,f
			SYSTEM POWER FEED							5.00	120	1	600	600	12	RP2-2									
AM02a,b,c	PRODUCE CASES	HUSSMANN	P4X-EP	8	FT	0.45	1.20	0.00		1.65	120	1	198	198	12	-									AM02a,b,c
AM02d,e,f	PRODUCE CASES	HUSSMANN	P4X-EP	8	FT	0.45	1.20	0.00		1.65	120	1	198	198	12	-									AM02d,e,f
			SYSTEM POWER FEED							3.30	120	1	396	396	12	RP2-4									
AM03a	PRODUCE CASES	HILL PHOENIX	6DMLH-NRG	8	FT	0.45	0.90	0.00		1.35	120	1	162	162	12	-									AM03a
AM03b	PRODUCE CASES	HILL PHOENIX	6DMLH-NRG	8	FT	0.45	0.90	0.00		1.35	120	1	162	162	12	-									AM03b
			SYSTEM POWER FEED							2.70	120	1	324	324	12	RP2-5									
AM04a	PRODUCE CASES	HILL PHOENIX	6DMLH-NRG	4	FT	0.20	0.44	0.00		0.64	120	1	77	77	12	-									AM04a
AM04b	PRODUCE CASES	HILL PHOENIX	6DMLH-NRG	6	FT	0.30	0.66	0.00		0.96	120	1	115	115	12	-									AM04b
			SYSTEM POWER FEED							1.60	120	1	192	192	12	RP2-6									
AM05a	SEAFOOD CASES	HILL PHOENIX	O5MH-NRG	8	FT	0.35	0.95	0.00		1.30	120	1	156	156	12	-									AM05a
AM05b	SEAFOOD CASES	HILL PHOENIX	O5MH-NRG	8	FT	0.35	0.95	0.00		1.30	120	1	156	156	12	-									AM05b
			SYSTEM POWER FEED							2.60	120	1	312	312	12	RP2-7									
AM06	MEAT CASES	HILL PHOENIX	O5MH-NRG	12	FT	0.50	1.40	0.00		1.90	120	1	228	228	12	-									AM06
			SYSTEM POWER FEED							1.90	120	1	228	228	12	RP2-8									
AM07	MEAT CASES	HILL PHOENIX	OUM	6	FT	0.30	0.20	0.20		0.70	120	1	84	84	12	-									AM07
			SYSTEM POWER FEED							0.70	120	1	84	84	12	RP2-9									
AM08a	MEAT CASES	HILL PHOENIX	OUM	12	FT	0.55	0.30	0.40		1.25	120	1	150	150	12	-									AM08a
AM08b	MEAT CASES	HILL PHOENIX	OUM	12	FT	0.55	0.30	0.40		1.25	120	1	150	150	12	-									AM08b
			SYSTEM POWER FEED							2.50	120	1	300	300	12	RP2-10									
AM09	COLD BAR	HILL PHOENIX	SBI-512R	12	FT	0.50	1.20	0.00		1.70	120	1	204	204	12	-									AM09
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-11									
AM10	COLD BAR	HILL PHOENIX	SBI-512R	12	FT	0.70	2.20	0.00		2.90	120	1	348	348	12	-									AM10
			SYSTEM POWER FEED							2.90	120	1	348	348	12	RP2-12									
AM11	BEVERAGE	ARNEG	SANTIAGO	16	FT	1.00	0.70	0.00		1.70	120	1	204	204	12	-									AM11
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-13									
AM12	BEVERAGE	ARNEG	SANTIAGO	8	FT	0.50	0.30	0.00		0.80	120	1	96	96	12	-									AM12
			SYSTEM POWER FEED							0.80	120	1	96	96	12	RP2-14									
AM13	BEVERAGE	ARNEG	SANTIAGO	16	FT	1.00	0.70	0.00		1.70	120	1	204	204	12	-									AM13
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-15									
AM14	BEVERAGE	ARNEG	SANTIAGO	16	FT	1.00	0.70	0.00		1.70	120	1	204	204	12	-									AM14
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-16									
AM15	BEVERAGE	ARNEG	SANTIAGO	8	FT	0.50	0.30	0.00		0.80	120	1	96	96	12	-									AM15
			SYSTEM POWER FEED							0.80	120	1	96	96	12	RP2-17									
AM16	BEVERAGE	ARNEG	SANTIAGO	16	FT	1.00	0.70	0.00		1.70	120	1	204	204	12	-									AM16
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-18									
AM17	BEVERAGE	ARNEG	SANTIAGO	16	FT	1.00	0.70	0.00		1.70	120	1	204	204	12	-									AM17
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-19									
AM18	BEVERAGE	ARNEG	SANTIAGO	8	FT	0.50	0.30	0.00		0.80	120	1	96	96	12	-									AM18
			SYSTEM POWER FEED							0.80	120	1	96	96	12	RP2-20									
AM19	BEVERAGE	ARNEG	SANTIAGO	16	FT	1.00	0.70	0.00		1.70	120	1	204	204	12	-									AM19
			SYSTEM POWER FEED							1.70	120	1	204	204	12	RP2-21									
AM20a	BEER AND WINE	HILL PHOENIX	VNRBH	6	DR	0.60	0.67	2.07		3.33	120	1	400	400	12	-									AM20a
AM20b	BEER AND WINE	HILL PHOENIX	VNRBH	6	DR	0.60	0.67	2.07		3.33	120	1	400	400	12	-									AM20b
AM20c	BEER AND WINE	HILL PHOENIX	VNRBH	6	DR	0.60	0.67	2.07		3.33	120	1	400	400	12	-									AM20c
			SYSTEM POWER FEED							10.00	120	1	1200	1200	12	RP2-22									
AM21	CHILLED SPECIALTY	HILL PHOENIX	ON5DMH	8	FT	4.20	0.90	0.00		5.10	120	1	612	612	12	-									AM21
			SYSTEM POWER FEED							5.10	120	1	612	612	12	RP2-23									
AM22	CHILLED SPECIALTY	HILL PHOENIX	VNRBH	6	DR	0.60	0.70	2.10		3.40	120	1	408	408	12	-									AM22
			SYSTEM POWER FEED							3.40	120	1	408	408	12	RP2-24									
AM23a	VEG VALLEY	RUSSELL	RWF340	-	-	0.00	3.60	0.00		3.60	120	1	432	432	12	-									AM23a
AM23b	VEG VALLEY	RUSSELL	RWF340	-	-	0.00	3.60	0.00		3.60	120	1	432	432	12	-									AM23b
AM23c	VEG VALLEY	RUSSELL	RWF340	-	-	0.00	3.60	0.00		3.60	120	1	432	432	12	-									AM23c
			SYSTEM POWER FEED							10.80	120	1	1296	1296	12	RP2-25									
AM24	CRISPER	RUSSELL	RWF190	-	-	0.00	2.40	0.00		2.40	120	1	288	288	12	-									AM24
			SYSTEM POWER FEED							2.40	120	1	288	288	12	RP2-26									
AM25a	FRUIT AND VEGETABLE COOLER	RUSSELL	RWF220	-	-	0.00	2.40	0.00		2.40	120	1	288	288	12	-									AM25a
AM25b	FRUIT AND VEGETABLE COOLER	RUSSELL	RWF220	-	-	0.00	2.40	0.00		2.40	120	1	288	288	12										AM25b
			SYSTEM POWER FEED							2.40	120	1	288	288	12	RP2-27									
AM26	OPEN MEAT KITCHEN	RUSSELL	RWF190	-	-	0.00	4.80	0.00		4.80	120	1	576	576	12	-									AM26
			SYSTEM POWER FEED							4.80	120	1	576	576	12	RP2-28									
AM27a	GROCERY COOLER	RUSSELL	RWF130	-	-	0.00	0.00	0.00		0.00	120	1	0	0		-		10.40	208	1	2163	1082	-	-	AM27a
AM27b	GROCERY COOLER	RUSSELL	RWF130	-	-	0.00	0.00	0.00		0.00	120	1	0	0		-		10.40	208	1	2163	1082	-	-	AM27b
AM27c	GROCERY COOLER	RUSSELL	RWF130	-	-	0.00	0.00	0.00		0.00	120	1	0	0				10.40	208	1	2163	1082	-	-	AM27c
AM27d	GROCERY COOLER	RUSSELL	RWF130	-	-	0.00	0.00	0.00		0.00	120	1	0	0		-		10.40	208	1	2163	1082	-	-	AM27d
			SYSTEM POWER FEED							41.60	208	1	8653	4326	6	RP2-29,31									
AM26a	DAIRY COOLER	RUSSELL	ITA36-240	-	-	0.00	3.60	0.00		3.60	120	1	432	432		-									AM28a
AM26b	DAIRY COOLER	RUSSELL	ITA36-240	-	-	0.00	3.60	0.00		3.60	120	1	432	432		-									AM28b
AM26c	DAIRY COOLER	RUSSELL	ITA36-240	-	-	0.00	3.60	0.00		3.60	120	1	432	432		-									AM28c
AM26d	DAIRY COOLER	RUSSELL	ITA36-240	-	-	0.00	3.60	0.00		3.60	120	1	432	432		-									AM28d
			SYSTEM POWER FEED							14.40	120	1	1728	1728	10	RP2-30									

GENERAL NOTES:

A. "PNLBD-CKT#" REFERS TO BRANCH CIRCUIT POWER SOURCE. SOURCE MAY BE VIA PANELBOARD OR A BUSSBAR TERMINATION CABINET AT THE REFRIGERATION EQUIPMENT. THE CIRCUIT NUMBERS SHOWN HERE ARE PRELIMINARY AND MAY BE SUBJECT TO CHANGE. COORDINATE THE EXACT CIRCUIT TERMINATION LOCATION WITH THE EQUIPMENT SUPPLIER AND OTHER TRADES PRIOR TO INSTALLATION.
B. BRANCH CIRCUIT LENGTHS ARE SHOWN FOR CALCULATION PURPOSES ONLY AND SHALL NOT BE USED FOR CONTRACTOR TAKEOFFS OR BIDDING. NOTIFY ENGINEER IF ACTUAL INSTALLED LENGTH DIFFERS SIGNIFICANTLY FROM THAT SHOWN.
C. REFER TO THE GENERAL NOTES, PLAN NOTES AND SPECIFICATIONS FOR MORE INFO.
D. THE CIRCUIT LENGTH FOR THE CASE/COIL IS ONLY THE DISTANCE FROM THE LOCAL JB/CONTROLLER TO THE NEARBY CASE. THE DISTANCE SHOWN FOR THE MAIN POWER FEED IS FROM THE SOURCE PANELBOARD/BUSSBAR TO THE JB/CONTROLLER NEAR THE CASE/COIL.
E. FOR CASES/COILS WITH SHARED BRANCH CIRCUITS: RUN THE LARGEST WIRE SIZE INDICATED FROM THE PANELBOARD/BUSSBAR TO THE NEAREST CASE/COIL. SMALLER WIRE SIZE MAY THEN BE RUN TO ADJACENT EQUIPMENT AS INDICATED; #12 MINIMUM.
F. SIZE CONDUITS AS REQUIRED PER CODE FOR CONDUIT TYPE AND NUMBER OF CONDUCTORS, 1/2" MINIMUM. IF ALLOWED BY TENANT, CONDUCTORS MAY BE COMBINED INTO A SINGLE CONDUIT, BUT CONTRACTOR MUST DERATE CONDUCTOR AMPACITY AND ADJUST WIRE SIZE PER CODE.
G. CONDUITS SHALL BE ROUTED WITH REFRIGERATION PIPING WHEREVER PRACTICABLE IN ACCORDANCE WITH TENANT REQUIREMENTS. UNLESS NOTED OTHERWISE, CONDUITS/RACEWAY SHALL BE CONCEALED FROM CUSTOMER VIEW WHEREVER PRACTICABLE.
H. ALL CONDUCTOR SIZES ARE BASED ON 75 DEG C RATED TERMINATION AND COPPER CONDUCTORS WITH TYPE THHN/THWN-2 INSULATION; FOR TERMINATION OR INSULATION TYPES RATED LESS THAN 75 DEG C, MODIFY SIZES PER CODE.
I. SELECT CIRCUIT WIRE SIZES HAVE BEEN UPSIZED IN ORDER TO MAINTAIN VOLTAGE DROP TO LESS THAN 3%.
J. IN SOME INSTANCES, SUPPLMENTARY HTR LOADS MAY BE ON THE SAME CIRCUIT AS THE FANS OR A/S HTRS. CIRCUIT LOADS ARE EITHER NON-COINCIDENT (MAX) OR SIMULTANEOUS (TOTAL). INFO SHOWN IS BASED ON MFR INFO AVAILABLE DURING THE DESIGN PHASE AND MAY BE SUBJECT TO CHANGE.
K. REFRIGERATED CASES MUST HAVE CODE REQUIRED APPLIANCE DISCONECTING MEANS EITHER VIA A LOCAL DISCONNECT OR LOCK-OFF STYLE CIRCUIT BREAKER/SWITCH.
L. EACH REFRIGERATED CASE/COIL CIRCUIT SHALL HAVE AN UPSTREAM OVER-CURRENT PROTECTION DEVICE SIZED TO PROPERLY PROTECT THE INTERNAL EQUIPMENT WIRING AND SHALL NOT EXCEED THAT RECOMMENDED BY THE EQUIPMENT MFR. CONTRACTOR SHALL PROVIDE LOCAL FUSE PROTECTION AT THE CASE IF REQUIRED FOR CIRCUITS CONNECTED TO MULTIPLE CASES WITH AN UPSTREAM OCPD SIZE GREATER THAN 20A: PROVIDE FUSES INSTALLED AT EACH CASE CONNECTION POINT TO PROTECT THE INTERNAL CASE WIRING. COORDINATE FUSE SIZE WITH MANUFACTURER'S RECOMMENDED MAXIMUM OVER-CURRENT PROTECTION (MOCP) DEVICE SIZE.
M. FOR EACH EVAPORATOR COIL, PROVIDE WP CEILING MOUNTED JB AND MANUAL SWITCH(ES) (NEMA 4) FOR CONNECTION OF EVAPORATOR COIL FANS (CF) AND/OR ELECTRIC DEFROST (ED). MANUAL SWITCH(ES) (CF & ED) EQUAL TO "SQUARE D" TYPE K, CLASS 2510 OR CLASS 3110 FOR FAN AND/OR ELECTRIC DEFROST THAT EXCEED 30 AMPS PROVIDE CONDUIT AND WIRING BETWEEN JB, SWITCH(ES) AND COIL. DO NOT LOCATE WP JB OR SWITCHES DIRECTLY IN FRONT OF EVAPORATOR COIL. REFER TO DETAIL ?/E-? FOR MORE INFORMATION.
N. IN SOME INSTANCES, 208/1 CASE DEFROST MAY BE FIELD CONNECTED TO 208/3 CIRCUIT. COORDINATE THE EXACT CIRCUITING REQUIREMENTS WITH TENANT AND OTHER TRADES PRIOR TO INSTALLATION. REFER TO DETAIL ?/E-? FOR FIELD WIRING INFORMATION.
O. THIS SCHEDULE IS INTENDED FOR USE WHEN THE REFRIGERATED CASES/COILS ARE POWERED VIA A NEARBY CASE CONTROLLER THAT HAS A SINGLE LARGE FEED SERVING ONE OR MORE CASES/COILS. THE CONTROLLER THEN SEPARATES THE LIGHTS, FANS AND DEFROST BRANCH CIRCUITS AS NEEDED AND PROVIDES NECESSARY OVER-CURRENT PROTECTION FOR EACH CASE BRANCH CIRCUIT. THIS TOOL/SCHEDULE IS USED TO SUM UP THE TOTAL LOAD PER CASE TO THE ASSOCIATED CONTROLLER.

NOTES:

1. THE ELECTRICAL REQUIREMENTS FOR THIS CASE/COIL ARE SUBJECT TO CHANGE. COORDINATE THE EXACT REQUIREMENTS WITH TENANT AND EQUIPMENT NAMEPLATE PRIOR TO INSTALLATION AND ADJUST ELECTRICAL PROVISIONS AS NEEDED.

brr

Architect of Record:
BOYD W. RAU
5700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

Energy Squared Texas
Engineering Consultants

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

03/06/2018

Sheet Title
ELECTRICAL REFRIGERATION SCHEDULE & DETAILS

Sheet No.
E501

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PANELBOARD: DPH

MANUFACTURER: Square D
BUS AMPS: 600 A — **AIC RATING:**
MAIN SIZE/TYPE: MLO — **SERVES:**
VOLTS/PHASE: 480Y/277 V, 3PH, 4W — **MOUNTING:** SURFACE
SUPPLIED BY: — **LOCATION:**

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1							8369	0					--	--	--	--	--	EQUIPPED SPACE	2
3	CONDENSER		8	10	40	3			8369	0			--	--	--	--	--	EQUIPPED SPACE	4
5											8369	0	--	--	--	--	--	EQUIPPED SPACE	6
7							62264	0					--	--	--	--	--	EQUIPPED SPACE	8
9	TRASNFORMER "T3"		(2) 2/0	3	350	3			56474	0			--	--	--	--	--	EQUIPPED SPACE	10
11											54164	0	--	--	--	--	--	EQUIPPED SPACE	12
13	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	14
15	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	16
17	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	18
19	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	20
21	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	22
23	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	24
25	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	26
27	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	28
29	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	30
31	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	32
33	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	34
35	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	36
37	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	38
39	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	40
41	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	42
			TOTAL LOAD (VA):				70634 VA		64843 VA		62533 VA								
			TOTAL AMPS:				256 A		235 A		226 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
MISC EQUIP	5696 VA	100.00%	5696 VA
RECEPTACLES	720 VA	100.00%	720 VA
REFRIGERATION	191594 VA	100.00%	191594 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	198010 VA
TOTAL ESTIMATED DEMAND:	198010 VA
TOTAL CONNECTED CURRENT:	238 A
TOTAL ESTIMATED DEMAND...	238 A

PANELBOARD: DPL

MANUFACTURER: Square D
BUS AMPS: 600 A — **AIC RATING:**
MAIN SIZE/TYPE: 600A M.C.B. — **SERVES:**
VOLTS/PHASE: 208Y/120 V, 3PH, 4W — **MOUNTING:** SURFACE
SUPPLIED BY: T3 — **LOCATION:**

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1							24730	8209											2
3	PANEL "RP1"		4/0	4	225	3			23225	3924			3	225	4	4/0		PANEL "RP2"	4
5											16023	8816							6
7							26299	1513											8
9	COMPRESSOR RACK		350	4	300	3			26299	1513			3	20	12	12		GAS COOLER	10
11											26299	1513							12
13							1513	0					--	--	--	--	--	EQUIPPED SPACE	14
15	GAS COOLER		12	12	20	3			1513	0			--	--	--	--	--	EQUIPPED SPACE	16
17											1513	0	--	--	--	--	--	EQUIPPED SPACE	18
19	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	20
21	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	22
23	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	24
25	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	26
27	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	28
29	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	30
31	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	32
33	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	34
35	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	36
37	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	38
39	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	40
41	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	42
			TOTAL LOAD (VA):				62264 VA		56474 VA		54164 VA								
			TOTAL AMPS:				522 A		474 A		451 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
MISC EQUIP	5696 VA	100.00%	5696 VA
RECEPTACLES	720 VA	100.00%	720 VA
REFRIGERATION	166486 VA	100.00%	166486 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	172902 VA
TOTAL ESTIMATED DEMAND:	172902 VA
TOTAL CONNECTED CURRENT:	480 A
TOTAL ESTIMATED DEMAND...	480 A

PANELBOARD: RP1

MANUFACTURER: Square D
BUS AMPS: 225 A — **AIC RATING:**
MAIN SIZE/TYPE: 225 MLO — **SERVES:**
VOLTS/PHASE: 208Y/120 V, 3PH, 4W — **MOUNTING:** SURFACE
SUPPLIED BY: DPL — **LOCATION:**

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1	CONTROLS & RECEPTACLE	LCK	F		20	2	180	2039					2	25		RS	LCK	AL01a COIL FANS/DEFROST	2
3									180	2039									4
5	AL02 CASE FANS/AS/LTG	LCK	RS		20	1					228	2039	2	25		RS	LCK	AL01b COIL FANS/DEFROST	6
7	AL03 CASE FANS/AS/LTG	LCK	RS		20	1	600	2039											8
9	AL04 CASE FANS/AS/LTG	LCK	RS		20	1			228	584			2	20		RS	LCK	AL02 CASE DEFROST	10
11	AL05 CASE FANS/AS/LTG	LCK	RS		20	1					228	584							12
13	AL06 CASE FANS/AS/LTG	LCK	RS		20	1	600	2453					2	30		RS	LCK	AL03 CASE DEFROST	14
15	AL07 CASE FANS/AS/LTG	LCK	RS		20	1			228	2453									16
17	AL08 CASE FANS/AS/LTG	LCK	RS		20	1					228	588	2	20		RS	LCK	AL04 CASE DEFROST	18
19	AL09 CASE FANS/AS/LTG	LCK	RS		20	1	636	588											20
21	AL10 CASE FANS/AS/LTG	LCK	RS		20	1			228	588			2	20		RS	LCK	AL05 CASE DEFROST	22
23	AL11 CASE FANS/AS/LTG	LCK	RS		20	1					228	588							24
25	AL12 CASE FANS/AS/LTG	LCK	RS		20	1	600	2453					2	30		RS	LCK	AL06 CASE DEFROST	26
27	AL13 CASE FANS/AS/LTG	LCK	RS		20	1			228	2453									28
29	AL14 CASE FANS/AS/LTG	LCK	RS		20	1					600	584	2	20		RS	LCK	AL07 CASE DEFROST	30
31	AL15 CASE FANS/AS/LTG	LCK	RS		20	1	600	584											32
33	AL16 CASE FANS/AS/LTG	LCK	RS		20	1			600	588			2	20		RS	LCK	AL08 CASE DEFROST	34
35	EQUIPPED SPACE	--	--	--	--	--					0	588							36
37	EQUIPPED SPACE	--	--	--	--	--	0	2453					2	30		RS	LCK	AL09 CASE DEFROST	38
39	EQUIPPED SPACE	--	--	--	--	--			0	2453									40
41	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	42
43	EQUIPPED SPACE	--	--	--	--	--	0	588					2	20		RS	LCK	AL10 CASE DEFROST	44
45	EQUIPPED SPACE	--	--	--	--	--			0	588									46
47	SPARE	--	--	--	20	1					0	584	2	20		RS	LCK	AL11 CASE DEFROST	48
49	SPARE	--	--	--	20	1	0	584											50
51	SPARE	--	--	--	20	1			0	2453			2	30		RS	LCK	AL12 CASE DEFROST	52
53	SPARE	--	--	--	20	1					0	2453							54
55	SPARE	--	--	--	20	1	0	584					2	20		RS	LCK	AL13 CASE DEFROST	56
57	SPARE	--	--	--	20	1			0	584									58
59	SPARE	--	--	--	20	1					0	2453	2	30		RS	LCK	AL14 CASE DEFROST	60
61	SPARE	--	--	--	20	1	0	2453											62
63	SPARE	--	--	--	20	1			0	2453			2	30		RS	LCK	AL15 CASE DEFROST	64
65	SPARE	--	--	--	20	1					0	2453							66
67	SPARE	--	--	--	20	1	0	2453					2	30		RS	LCK	AL16 CASE DEFROST	68
69	SPARE	--	--	--	20	1			0	2453									70
71	SPARE	--	--	--	20	1					0	0	1	20	--	--	--	SPARE	72
73	DAIRY COOLER A.S. 1	LCK	10		20	1	1000	0					1	20	--	--	--	SPARE	74
75	DAIRY COOLER LTS 1	LCK	10		20	1			1248	0			1	20	--	--	--	SPARE	76
77	DAIRY COOLER A.S. 2	LCK	10		20	1					1000	0	1	20	--	--	--	SPARE	78
79	DAIRY COOLER LTS 2	LCK	10		20	1	1248	0					--	--	--	--	--	EQUIPPED SPACE	80
81	FREEZER HEAT TAPE	LCK	10		20	1			600	0			--	--	--	--	--	EQUIPPED SPACE	82
83	COOLER HEAT TAPE	LCK	10		20	1					600	0	--	--	--	--	--	EQUIPPED SPACE	84
			TOTAL LOAD (VA):				24730 VA		23225 VA		16023 VA								
			TOTAL AMPS:				215 A		203 A		134 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
MISC EQUIP	5696 VA	100.00%	5696 VA
RECEPTACLES	360 VA	100.00%	360 VA
REFRIGERATION	57921 VA	100.00%	57921 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
HT - PROVIDE HANDLE TIES TO COMPLY WITH NEC 210.4(B)
IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	63977 VA
TOTAL ESTIMATED DEMAND:	63977 VA
TOTAL CONNECTED CURRENT:	178 A
TOTAL ESTIMATED DEMAND...	178 A

PANELBOARD: RP2

MANUFACTURER: Square D
BUS AMPS: 225 A — **AIC RATING:**
MAIN SIZE/TYPE: 225A MLO — **SERVES:**
VOLTS/PHASE: 208Y/120 V, 3PH, 4W — **MOUNTING:** SURFACE
SUPPLIED BY: DPL — **LOCATION:**

VOLT AMPS / PHASE

CKT NO.	DESCRIPTION	CIRCUIT...	WIRE SIZE	GND SIZE	BKR AMP	P	A	A	B	B	C	C	P	BKR AMP	GND SIZE	WIRE SIZE	CIRCUIT...	DESCRIPTION	CKT NO.
1	CONTROL & RECEPTACLE	LCK	F	--	20	2	180	605					1	20		RS	LCK	AM01 CASE FANS/LTG	2
3									180	396			1	20		RS	LCK	AM02 CASE FANS/LTG	4
5	AM03 CASE FANS/LTG	LCK	RS		20	1					324	192	1	20		RS	LCK	AM04 CASE FANS/LTG	6
7	AM05 CASE FANS/LTG	LCK	RS		20	1	312	228					1	20		RS	LCK	AM06 CASE FANS/LTG	8
9	AM07 CASE FANS/AS/LTG	LCK	RS		20	1			84	300			1	20		RS	LCK	AM08 CASE FANS/AS/LTG	10
11	AM09 CASE FANS/LTG	LCK	RS		20	1					204	348	1	20		RS	LCK	AM10 CASE FANS/LTG	12
13	AM11 CASE FANS/LTG	LCK	RS		20	1	204	96					1	20		RS	LCK	AM12 CASE FANS/LTG	14
15	AM13 CASE FANS/LTG	LCK	RS		20	1			204	204			1	20		RS	LCK	AM14 CASE FANS/LTG	16
17	AM15 CASE FANS/LTG	LCK	RS		20	1					96	204	1	20		RS	LCK	AM16 CASE FANS/LTG	18
19	AM17 CASE FANS/LTG	LCK	RS		20	1	204	96					1	20		RS	LCK	AM18 CASE FANS/LTG	20
21	AM19 CASE FANS/LTG	LCK	RS		20	1			204	1200			1	20		RS	LCK	AM20 CASE FANS/AS/LTG	22
23	AM21 CASE FANS/LTG	LCK	RS		20	1					612	408	1	20		RS	LCK	AM22 CASE FANSAS//LTG	24
25	AM23 COIL FANS	LCK	RS		20	1	1296	288					1	20		RS	LCK	AM24 COIL FANS	26
27	AM25 COIL FANS	LCK	RS		20	1			576	576			1	20		RS	LCK	AM26 COIL FANS	28
29	AM27 COIL FANS/DEFROST	LCK	RS		60	2					4700	1728	1	20		RS	LCK	AM28 COIL FANS	30
31							4700	0					--	--	--	--	--	EQUIPPED SPACE	32
33	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	34
35	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	36
37	EQUIPPED SPACE	--	--	--	--	--	0	0					--	--	--	--	--	EQUIPPED SPACE	38
39	EQUIPPED SPACE	--	--	--	--	--			0	0			--	--	--	--	--	EQUIPPED SPACE	40
41	EQUIPPED SPACE	--	--	--	--	--					0	0	--	--	--	--	--	EQUIPPED SPACE	42
			TOTAL LOAD (VA):				8209 VA		3924 VA		8816 VA								
			TOTAL AMPS:				74 A		33 A		79 A								

LOAD TYPE	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
RECEPTACLES	360 VA	100.00%	360 VA
REFRIGERATION	20589 VA	100.00%	20589 VA

PANELBOARD NOTES:
AF - ARC FAULT CKT INTERRUPT
C# - VIA LTG CONTACTOR #
EM - EMERG LTG HANDLE-ON CLAMP
EX - EXISTING
FA - RED/HANDLE-ON CLAMP
GF - GFCI TYPE CIRCUIT BREAKER
GFEP - GND FAULT EQUIPMENT PROTECTION BREAKER RATED FOR 30mA
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IG - ISOLATED GROUND CIRCUIT
LCK - HANDLE PADLOCKABLE-OFF DEVICE
LO - HANDLE-ON CLAMP
OL - REFER TO ONE-LINE DIAGRAM
PS - POWER SWITCHING BREAKER
ST - SHUNT TRIP
SW - SWITCH RATED

PANELBOARD TOTALS	
TOTAL CONNECTED LOAD:	20949 VA
TOTAL ESTIMATED DEMAND:	20949 VA
TOTAL CONNECTED CURRENT:	58 A
TOTAL ESTIMATED DEMAND...	58 A

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET
1	03/06/18	ADDENDUM 1

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: EG
Checked By:
Drawn by: KJG
Document date: 01/26/18
Template date:

Project No. 62911019

Professional Seal

03/06/2018

Sheet Title
ELECTRICAL REFRIGERATION PANEL SCHEDULES

Sheet No. E502

3/6/2018 6:27:58 PM

PARASENSE REFRIGERANT LEAK DETECTION SCOPE OF WORK:

DISCIPLINE - ELECTRICAL

FOR THE ATTENTION OF INSTALLING ELECTRICAL CONTRACTORS

SCOPE OF WORK: STORE FUSION PLATFORM (SFP), DEMAND LIMITING, ENERGY RESOURCE MANAGER (ERM2) AND INDOOR AND OUTDOOR ENVIRONMENTAL SENSORS

THIS LOCATION SHALL HAVE ONE STORE FUSION PLATFORM (SFP) WHICH SHOULD BE LOCATED NEAR THE MAIN DISTRIBUTION PANEL. THE INSTALLATION WILL COMPRISE OF THE FOLLOWING CONNECTIONS;

1. THE SFP REQUIRES A 3 PHASE SUPPLY ON THE SAME POTENTIAL AS THE STORES MAIN FEED, FED FROM THE EMERGENCY PANEL.

2. THE INSTALLATION OF A NEW WAN CONNECTION FROM THE STORE'S NETWORK NEEDS TO BE INSTALLED AND CONNECTED TO THE LABELED PC WAN PORT LOCATED ON THE INSIDE OF THE SFPS DOOR. PARASENSE MUST BE CONTACTED WHEN THE SFP IS POWERED AND CONNECTED TO ENSURE REMOTE COMMUNICATIONS ARE ESTABLISHED.

3. PATCH CABLES WILL NEED TO BE RUN FROM THE HUB IN THE SFP TO ALL PARASENSE RM EQUIPMENT ONSITE.

4. A NEW RS485 NETWORK FOR THE INTERNAL & EXTERNAL SENSORS WILL NEED TO BE INSTALLED. THIS NETWORK CAN BE RUN AS ONE CONTINUOUS NETWORK FROM 1 SENSOR TO THE NEXT, OR WIRED WITH INDIVIDUAL HOME RUNS CONNECTED TO THE SRME2 PCB WITHIN SFP. THE MOST EFFICIENT ROUTE SHOULD BE UTILIZED DEPENDENT ON THE LOCATION OF ALL THE EQUIPMENT WITHIN THE STORE. PLEASE REFER TO ATTACHED CABLE SPEC DOCUMENTATION FOR FURTHER INFORMATION.

5. THE SENSORS SHOULD BE INSTALLED IN THE OPTIMAL LOCATIONS WITHIN THE STORE. INTERNAL: COLUMN OVER FROZEN FOODS CASES 6.5 TO 8FT FROM FLOOR LEVEL AND ACCESSIBLE IN THE FUTURE IF REQUIRED. EXTERNAL: SHIELDED FROM DIRECT SUN ON NORTH FACING SURFACE, 6 FT. ABOVE ROOF SURFACE. NEITHER SENSOR SHOULD BE LOCATED NEAR AN ARTIFICIAL HEAT SOURCE, I.E. HVAC VENT, EXHAUST STACK.

6. THE MAIN FEED ENERGY MONITORING SART CABLING WILL NEED TO BE RUN FROM THE MAIN FEED SARTS TO THE TERMINALS ON THE SRME2 PCB WITHIN THE SFP. CARE MUST BE TAKEN TO ENSURE THE ORIENTATION AND ROTATION OF THE PHASES. PLEASE REFER TO ATTACHED CABLE SPEC DOCUMENTATION FOR FURTHER INFORMATION. TECHNICIAN ONSITE MUST CONTACT PARASENSE INFORMATION CENTER TO CONFIRM THAT THE DATA IS VISIBLE ON THE SFP AND THEREFORE THE ORIENTATION AND ROTATIONS OF THE PHASES ARE CORRECT. IF THIS IS NOT THE CASE ALL DATA FOR THE CLIENT WILL BE UNUSABLE.

7. THE ERM2 ENERGY MONITOR SHOULD BE MOUNTED IN THE VICINITY OF THE LOADS TO BE MONITORED AND REQUIRES A THREE PHASE SUPPLY ON THE SAME POTENTIAL AS THE CIRCUITS TO BE MONITORED, FED FROM THE EMERGENCY PANEL. THE ERM2 ENERGY MONITOR IS AVAILABLE AS EITHER A 12 OR 6 CIRCUIT MONITORING DEVICE, IF CIRCUITS ON DIFFERING POTENTIALS ARE TO BE MONITORED, PARASENSE WILL SUPPLY ERM2 TO MONITOR BOTH VOLTAGES. THE INSTALLATION WILL COMPRISE OF THE FOLLOWING CONNECTIONS:

8. UP TO 12#, 3-PHASE ENERGY MONITORING CIRCUITS WILL BE IDENTIFIED AND COVER MEASUREMENT OF EACH RACK / REFRIGERATION SYSTEM INDIVIDUALLY, STORE MAIN LIGHTING CIRCUITS AND MAIN HVAC UNIT(S) ONLY. REFER TO THE T0007 DOCUMENT FOR THE ENERGY CONFIGURATION SUPPLIED WITH THE MONITOR FOR NUMBER OF CIRCUITS TO BE MEASURED.

9. THE DEMAND LIMITING MANAGEMENT FEATURE OF THE SFP WILL MODIFY THE LOAD WHEN DEMAND IS HIGH BY SWITCHING OFF THE AGREED STRATEGIC LOADS FOR A SPECIFIED PERIOD IN CONJUNCTION WITH A SET OF RULES. FOR THE DEMAND MANAGEMENT TO OPERATE A PARASENSE SFP IS REQUIRED WITH COMMUNICATIONS TO THE ONSITE BUILDING CONTROL SYSTEM (BMS / FMS), SUCH AS EMERSON, DANFOSS, MICRO THERMO, ETC.

A. EC TO RUN AND CONNECT 8# TWISTED PAIR 18AWG - BELDEN 8461 CONTROL WIRING FROM THE 8 RELAYS IN THE SFP TO 8 INPUTS ON THE BMS / FMS CONTROL SYSTEM TO CONTROL ALL MODIFICATIONS.

B. COMMISSIONING AGENT / REFRIGERATION CONTRACTOR TO PROGRAM ALTERNATIVE CONTROL STRATEGY FOR LOAD MODIFICATION AS PER PARASENSE AND CUSTOMER AGREED STRATEGY. THE DEMAND MANAGEMENT WILL MODIFY THE LOAD ON AN AS REQUIRED BASIS BY MODIFYING UP TO A MAXIMUM OF EIGHT STRATEGIC LOADS, WHICH WILL BE SELECTED BASED ON STORE SPECIFICS.

11. UP TO 4# DIGITAL PULSE INPUTS WILL BE INDENTIFIED AND COVER MEASUREMENT OF WATER METERS, GAS METERS OR OTHER SYSTEMS. REFER TO THE T0007 DOCUMENT FOR THE ENERGY CONFIGURATION SUPPLIED WITH THE MONITOR FOR SPECIFIC SYSTEMS TO COVER

12. ACCESS INTEGRATION FOR 3RD PARTY IP CONTROLLERS VIA REAL TIME ON PARASENSE DASHBOARD PER WHOLE FOODS MARKET SPECIFICATION

GENERAL REQUIREMENTS:

1. TO COORDINATE ALL WORK WITH PARASENSE AND STORE MANAGEMENT. WHERE APPLICABLE INSTALLATION OF EQUIPMENT MUST NOT INTERFERE WITH STORE OPERATIONS. IN THE EVENT OF A SYSTEM FAILURE, CONTACT THE PROJECT MANAGER. REMAIN ON SITE AND FOLLOW THE PROJECT MANAGERS DIRECTIONS. ADDITIONALLY, CONTACT PARASENSE AND LEAVE STATUS REPORTS OF THE INCIDENT.

2. TO COORDINATE PARASENSE OEM COMMISSIONING WITH INSTALLATION TEAM AVAILABLE ON SITE AT THE SAME TIME TO MAKE GOOD ANY DEFICIENCIES FOUND DURING OEM COMMISSIONING. CONTACT PARASENSE TECHNICAL SUPPORT ON TEL. 540-948-9919 FOR INSTALLATION RELATED QUESTIONS AND TO SCHEDULE OEM COMMISSIONING AT THE COMPLETION OF THE INSTALLATION.

3. ALL WIRING IS TO BE INSTALLED PER NEC, STATE AND LOCAL REQUIREMENTS AND THE CLIENTS BEST PRACTICE SPECIFICATIONS. ALL POWER CONNECTIONS SHALL BE INSTALLED IN EMT CONDUIT. ALL CONNECTIONS TO PARASENSE EQUIPMENT SHALL BE WATER TIGHT AND ENTER INTO THE BASE OF THE MONITOR. INSTALLATION INSTRUCTIONS ARE CONTAINED WITHIN THE ATTACHED DOCUMENTATION TO ASSIST IN THE INSTALLATION PROCESS. ALL CABLING IS TO BE INSTALLED ACCORDING TO CABLE MANUFACTURERS SPECIFICATIONS.

4. REFER TO THE ATTACHED DOCUMENTATION FOR ALL POWER AND CABLE SPEC REQUIREMENTS. **NO CABLE SUBSTITUTIONS ARE APPROVED.**

5. ANY WORK ON THE SALES FLOOR REQUIRING A LIFT MUST BE COORDINATED AND AGREED WITH THE STORE MANAGER IN ADVANCE, AS NIGHT WORK MAY BE REQUIRED.

6. COMPLETED INSTALLATION CHECKLIST TO BE PROVIDED AT TIME OF OEM COMMISSIONING TO ONSITE PARASENSE TECHNICIAN.

PARASENSE INSTALLATION SCOPE OF WORK:

DISCIPLINE - REFRIGERATION

FOR THE ATTENTION OF INSTALLING REFRIGERATION CONTRACTORS

SCOPE OF WORK: REFRIGERANT LEAK DETECTION (GRM2)

THE SCOPE OF WORK WILL BE FOR THE INSTALLATION OF A COMPLETELY NEW 16 CHANNEL MONITOR, PIPEWORK AND FINAL COMMISSIONING. THE PARASENSE MATERIAL WILL BE PROVIDED TO YOU FOR INSTALL ONLY, PROCUREMENT WILL NOT BE NECESSARY. CABLING, WIRING AND ROUTINE INSTALLATION MATERIAL WILL NEED TO BE PROVIDED BY THE INSTALLING CONTRACTOR.

THIS STORE SHALL HAVE ONE TWELVE CHANNEL GRM2 REFRIGERANT MONITOR, AND ASSOCIATED PIPEWORK AND LOCAL CONNECTION(S) TO EXISTING EMS/FMS CONTROL SYSTEM FOR IN-STORE NOTIFICATION OF A LEAK EVENT AND ACTIVATION OF VENTILATION IN MECHANICAL ROOM. PARASENSE WILL PROVIDE THE CONFIGURATION WITH THE EQUIPMENT AND THE CONTRACTOR WILL BE RESPONSIBLE FOR HIGHLIGHTING ANY REQUIRED CONFIGURATION CHANGES FOR APPROVAL AND IMPLEMENTING THE APPROVED CHANGES TO STORE CONFIGURATION. INSTALLER WILL NEED TO HAVE LOCAL CONNECTIVITY TO THE EMS/FMS CONTROL SYSTEM FOR COMMISSIONING AND VERIFICATION OF INSTALLATION COMPLETION.

SPECIFIC REQUIREMENTS:

1. TO INSTALL AND COMMISSION THE GRM2 REFRIGERANT MONITOR WITH THE SCREEN AT APPROXIMATELY 5FT ABOVE FLOOR LEVEL, TYPICALLY IN THE MACHINE ROOM, ALONG WITH THE OPTIONAL ADC-104 EXPAQNSION PANEL. THIS INSTALLATION INCLUDES ALL 6MM PIPEWORK, SPUR KITS, BEACON SOUNDERS (OPTIONAL), RELAY CONNECTION, CONDUIT RUNS AND POWER FEED. THE MONITOR WILL REQUIRE ONE FUSED 5 AMP SINGLE PHASE 120 VOLT INPUT THAT IS ALWAYS LIVE, WITH A DEDICATED 20A CIRCUIT BREAKER. ALL WIRING IS TO BE INSTALLED PER NEC, STATE AND LOCAL REQUIREMENTS AND THE CLIENTS BEST PRACTICE SPECIFICATIONS.

2. TO IMPLEMENT LOCAL ALARMING CAPABILITY FOR A LEAK EVENT(S) TO THE ONSITE EMS/FMS SYSTEM VIA DIGITAL INPUT SIGNAL FROM, THE PILOT RELAYS WITH THE GRM2. WIRE TERMINATIONS ON THE RELAY FROM "C" TO "NC" AS PER THE SCHEMATIC AND SHOULD BE CONFIGURED WITH THE EMS/FMS CONTROL EQUIPMENT AS NOTED ON THE T0010 CONFIGURATION SUPPLIED WITH THE MONITOR.

3. WHERE APPLICABLE, TO IMPLEMENT VENTILATION OVERRIDE FOR THE COMPRESSOR ROOMS VIA DIGITAL INPUT TO THE VENTILATION CONTROL SYSTEM OR BY INSTALLING THE PARASENSE PILOT RELAY AS A BYPASS CIRCUIT AROUND THE VENTILATION THERMOSTAT. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE METHOD REQUIRED TO DRIVE THE VENTILATION OVERRIDE AND PARASENSE IS TO BE NOTIFIED.

4. SPUR KITS WILL BE UTILIZED AT ALL LOCATIONS TO ENHANCE THE COVERAGE AREA. THE SAMPLE POINT LOCATIONS WILL BE SELECTED BY PARASENSE AND NOTED IN THE SUPPLIED T0010 CONFIGURATION. SPUR KIT NUMBER WILL BE BASED ON NUMBER OF EVAPORATORS AND AREAS OF COVERAGE.

5. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN ACCORDANCE WITH SYSTEM CONFIGURATION. HOWEVER SHOULD CHANGES BE REQUIRED PARASENSE TECHNICAL SUPPORT SHOULD BE CONTACTED PRIOR TO PROCEEDING AND ANY SUBSEQUENT APPROVED CHANGES DOCUMENTED ON THE "INSTALLATION CHECKLIST" FOR RECORD - TEL. 540-948-9919 / EMAIL. TECHSUPPORT@PARASENSE.COM

6. UPON COMPLETION OF THE INSTALLATION, THE INSTALLATION CHECKLIST WILL NEED TO BE COMPLETED AND TURNED IN TO THE PARASENSE OFFICE IN VIRGINIA. A PARASENSE TECHNICIAN WILL CARRY OUT ON-SITE COMMISSIONING OF THE SYSTEM AND PROVIDE A CERTIFICATE OF COMPLIANCE.

7. SPECIFIC RELEVANT GUIDE LINES FROM THE PARASENSE INSTALLATION MANUAL WILL NEED TO BE FOLLOWED FOR ALL ASPECTS OF THE INSTALLATION.

GENERAL REQUIREMENTS:

1. TO COORDINATE ALL WORK WITH PARASENSE AND STORE MANAGEMENT. WHERE APPLICABLE INSTALLATION OF EQUIPMENT MUST NOT INTERFERE WITH STORE OPERATIONS. IN THE EVENT OF A SYSTEM FAILURE, CONTACT THE PROJECT MANAGER. REMAIN ON SITE AND FOLLOW THE PROJECT MANAGER'S DIRECTIONS. ADDITIONALLY, CONTACT PARASENSE AND LEAVE STATUS REPORTS OF THE INCIDENT.

2. TO COORDINATE PARASENSE OEM COMMISSIONING WITH INSTALLATION TEAM AVAILABLE ON SITE AT THE SAME TIME TO MAKE GOOD ANY DEFICIENCIES FOUND DURING OEM COMMISSIONING. CONTACT PARASENSE TECHNICAL SUPPORT ON TEL. 540-948-9919 FOR INSTALLATION RELATED QUESTIONS AND TO SCHEDULE OEM COMMISSIONING AT THE COMPLETION OF THE INSTALLATION.

3. ALL WIRING IS TO BE INSTALLED PER NEC, STATE AND LOCAL REQUIREMENTS AND THE CLIENTS BEST PRACTICE SPECIFICATIONS. ALL POWER CONNECTIONS SHALL BE INSTALLED IN EMT CONDUIT. ALL CONNECTIONS TO PARASENSE EQUIPMENT SHALL BE WATER TIGHT AND ENTER INTO THE BASE OF THE MONITOR. INSTALLATION INSTRUCTIONS ARE CONTAINED WITHIN THE ATTACHED DOCUMENTATION TO ASSIST IN THE INSTALLATION PROCESS. ALL CABLING IS TO BE INSTALLED ACCORDING TO CABLE MANUFACTURES SPECIFICATIONS.

4. REFER TO THE ATTACHED DOCUMENTATION FOR ALL POWER AND CABLE SPEC REQUIREMENTS. NO CABLE SUBSTITUTIONS ARE APPROVED.

5. ANY WORK ON THE SALES FLOOR REQUIRING A LIFT MUST BE COORDINATED AND AGREED WITH THE STORE ANAGER IN ADVANCE, AS NIGHT WORK MAY BE REQUIRED.

6. COMPLETED INSTALLATION CHECKLIST TO BE PROVIDED AT TIME OF OEM COMMISSIONING TO ONSITE PARASENSE TECHNICIAN.

GENERAL GUIDELINES FOR THE GRM2 REFRIGERANT MONITOR AND ACCESSORIES INSTALLATION:

1. THE GRM2 MONITOR TO BE MOUNTED IN THE COMPRESSOR OR ELECTRICAL ROOM TO A SOLID VERTICAL SURFACE CAPABLE OF SUPPORTING THE LOAD AND WHERE THE MONITOR CANNOT BE DAMAGED BY PASSING TRAFFIC. GRM2 REFRIGERANT MONITOR MUST BE ACCESSIBLE AND AT EYE LEVEL FOR THE REFRIGERATION CONTRACTOR TO INTERROGATE IT.

2. ALL POWER, COMMUNICATIONS AND FMS/EMS SIGNAL WIRING TO BE INSTALLED TO CODE AND CUSTOMERS BEST PRACTICE; PLUS NEATLY RUN IN CONDUIT AND INSTALLED INTO THE BASE OF THE REFRIGERANT MONITOR. PENETRATIONS INTO THE SIDE OR TOP OF THE MONITOR ARE NOT APPROVED AND MAY VOID MONITOR WARRANTY.

PARASENSE INSTALLATION SCOPE OF WORK:

DISCIPLINE - REFRIGERATION

FOR THE ATTENTION OF INSTALLING REFRIGERATION CONTRACTORS

3. FREEWAY (THE PARASENSE SUPPLIED 6MM TUBING) SHOULD BE RUN IN CONDUIT VERTICALLY DOWN THE WALL ADJACENT TO THE GRM2 AND THEN RUN HORIZONTALLY 12" BELOW THE BASE OF THE GRM2. THE FREEWAY SHOULD THEN BE NEATLY LOOPED INTO THE RESPECTIVE CHANNEL FITTING. CARE SHOULD BE TAKEN NOT TO CUT THE FREEWAY TOO SHORT, THE FREEWAY SHOULD ENTER INTO THE CHANNEL FITTING AT 90° TO ENSURE AN AIR TIGHT SEAL.

4. THE CUTTING OF THE FREEWAY IS ONLY TO BE CARRIED OUT USING THE SUPPLIED CUTTING TOOL, TO ENSURE A STRAIGHT CLEAN CUT.

VISUAL AND AUDIBLE INDICATION - REMOTE BEACON AND SOUNDERS (OPTIONAL)

LOCAL AND STATE CODE DICTATES THE NEED FOR ADDITIONAL VISUAL AND AUDIBLE INDICATION OF REFRIGERANT CONCENTRATION IN AIR AND CONTROL OF REFRIGERANT FLOW TO CONFINED SPACES. IN THE EVENT MULTIPLE REMOTE BEACON AND SOUNDERS ARE REQUIRED PARASENSE WILL INCLUDE AN ADDITIONAL TERMINAL CONNECTION ENCLOSURE (ADC-104) FOR THE PURPOSE OF INTEGRATING ON-SITE FMS/EMS WITH REFRIGERANT DETECTION AND THE ANNUNCIATION OF SPACE SPECIFIC REMOTE BEACON AND SOUNDERS.

1. THE SUPPLIED OPTIONAL ADC-104 TERMINAL CONNECTION ENCLOSURE IS TO BE MOUNTED ADJACENT TO THE GRM2 WHERE THE SUPPLY WIRING LOOM CAN BE DIRECTLY WIRED TO THE ENCLOSURE. DO NOT POWER GRM2 OR ADC-104 UNTIL THE CONNECTIONS HAVE BEEN TERMINATED.

2. THE ADC-104 WILL REQUIRE ONE FUSED 5 AMP SINGLE PHASE 120 VOLT INPUT THAT IS ALWAYS LIVE WITH A DEDICATED 20 AMP CIRCUIT BREAKER. ALL WIRING IS TO BE INSTALLED PER NEC, STATE AND LOCAL REQUIREMENTS AND THE CLIENTS BEST PRACTICE SPECIFICATIONS.

3. TO IMPLEMENT LOCAL ALARMING CAPABILITY FOR A LEAK EVENT(S) TO THE ONSITE EMS/FMS SYSTEM VIA GRM2 RELAYS OR OPTIONAL ADC-104 TERMINAL CONNECTION ENCLOSURE. WIRE TERMINATIONS IN THE SUPPLIED ENCLOSURE SHOULD BE AS PER THE SCHEMATIC SUPPLIED AND SHOULD BE CONFIGURED WITH THE EMS/FMS CONTROL EQUIPMENT AS NOTED ON THE T0010 CONFIGURATION SUPPLIED WITH THE MONITOR.

4. TO INSTALL BEACON SOUNDERS NEXT TO ENTRANCES OF MONITORED SPACES AS DETAILED IN CONFIGURATION. ALL CONNECTIONS TO BE RUN BACK TO EITHER THE GRM2 RELAYS OR OPTIONAL ADC-104 TERMINAL CONNECTION ENCLOSURE AND TERMINATED AS INDICATED.

2

SIEMENS ENERGY MONITORING SCOPE OF WORK:

GENERAL GUIDELINES FOR THE ENERGY MONITORING PLATFORM AND ACCESSORIES INSTALLATION:

1. THE DENT POWERSCOUT (ENERGY MONITOR) TO BE MOUNTED IN THE POWERWALL TO A SOLID VERTICAL SURFACE CAPABLE OF SUPPORTING THE LOAD AND WHERE THE MONITOR CANNOT BE DAMAGED BY PASSING TRAFFIC. ERM2 ENERGY MONITOR MUST BE ACCESSIBLE AND AT EYE LEVEL FOR THE CONTRACTOR TO INTERROGATE IT.
2. ALL POWER, COMMUNICATIONS AND EMS SIGNAL WIRING TO BE NEATLY RUN AND INSTALLED INTO THE BASE OF THE MONITORS. PENETRATIONS INTO THE SIDE OR TOP OF THE MONITOR ARE NOT APPROVED AND MAY VOID MONITOR WARRANTY.
3. VERIFY ALL LOADS TO BE MONITORED WITH SCHEDULE ON SHEET EM200.
4. ALL LOADS TO BE MONITORED VIA SIEMENS (DENT) SUPPLIED CURRENT TRANSFORMERS, UNLESS NOTED OTHERWISE.

MAIN BUILDING ELECTRICAL SERVICE:

1. THE INCOMING FEED FROM THE UTILITY COMPANY WILL BE MONITORED FOR ENERGY USAGE.
2. COORDINATE WITH ELECTRICAL CONTRACTOR THE INSTALLATION OF ART/SART AUTO RANGING CURRENT TRANSFORMERS. IF APPLICABLE, COORDINATE WITH PARASENSE FIELD TECHNICIAN IF MAIN SERVICE ENTRY HAS EXISTING FACTORY INSTALLED ENERGY MONITOR WITH OUTPUTS TO PARASENSE.
3. MAIN STORE ENERGY WILL BE CONNECTED TO STORE FUSION PLATORM, RATHER THAN ERM2.

REFRIGERATION:

1. ENERGY USAGE WILL BE MONITORED FOR THE COMPRESSORS AND CONDENSERS OF THE REFRIGERATION RACK.
2. CASE LIGHTING, FANS, DEFROST, AND ANTI-SWEATS WILL NOT NEED TO BE MONITORED.

HVAC:

1. ENERGY USAGE WILL BE MONITORED FOR EACH OF THE TWO MAIN ROOFTOP UNITS.
2. ENERGY USAGE FOR AUXILIARY HVAC UNITS MAY BE MONITORED IF MAJORITY OF HVAC EQUIPMENT IS FEED FROM A SINGLE POINT. REFER TO POWER MONITORING SCHEDULE ON SHEET EM200 FOR ADDITIONAL INFORMATION.

LIGHTING:

1. ENERGY USAGE WILL BE MONITORED FOR THE GENERAL SALES LIGHTING.
2. TRACK LIGHTING AND OTHER ADDITIONAL LIGHTING NOT REQUIRED TO BE MONITORED UNLESS IT IS FEED FROM THE PANELBOARD FEEDING GENERAL LIGHTING.

GENERAL ENERGY MANAGEMENT SYSTEM (EMS) NOTES:

1. ENERGY MANAGEMENT CONTRACTOR (E.M.C.) IS RESPONSIBLE FOR PROCURING AND INSTALLATION OF A FULLY FUNCTIONAL REFRIGERATION, LIGHTING, AND HVAC ENERGY MANAGEMENT SYSTEM. REFER TO MECHANICAL PLANS FOR EXTENT OF STAND-ALONE HVAC EQUIPMENT TO BE INSTALLED, WIRED, AND FUNCTIONAL BY MECHANICAL CONTRACTOR.
2. COORDINATE ALL WORK WITH CORRESPONDING CONTRACTORS INCLUDING BUT NOT LIMITED TO GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR, DATA/TELEPHONE CONTACTOR, PLUMBING CONTRACTOR, REFRIGERATION CONTRACTOR, MECHANICAL CONTRACTOR AND 365.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT ALL COORDINATION AND CONFLICT ISSUES BE RESOLVED BY 365 PROJECT MANAGER PRIOR TO INSTALLATION.
4. ALL LOOSE HVAC SIEMENS EQUIPMENT IS FURNISHED BY 365 AND INSTALLED BY E.M.C. SIEMENS CONTACT FOR HVAC EQUIPMENT IS AARON MOORE, 512-421-6298.
5. ALL REFRIGERATION MICRO THERMO EQUIPMENT IS FURNISHED BY REFRIGERATION RACK VENDOR FOR INSTALLATION BY E.M.C. COORDINATE ANY MISSING, DAMAGED, OR UN-FUNCTIONAL EQUIPMENT TO REFRIGERATION CONTACTOR AND 365 FOR RESOLUTION.
6. ALL PARASENSE EQUIPMENT IS FURNISHED BY 365 AND INSTALLED BY E.M.C. PARASENSE CONTACT IS MICHELLE COLLIER (p)1-540-948-9919.
7. COMPLY WITH ALL BUILDING CODES IN ACCORDANCE WITH LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
8. E.M.C. IS RESPONSIBLE FOR:
   * INSTALLATION OF ANY REFRIGERATION CASE TEMPERATURE SENSORS, DEFROST TERMINATION SENSORS, EVAPORATOR COIL TEMPERATURE SENSORS, AND ANY OTHER FIELD REQUIRED SENSORS SUPPLIED BY REFRIGERATION RACK VENDOR.
   * INSTALLATION OF ALL HVAC TEMPERATURE SENSORS, HUMIDITY SENSORS, INTERLOCKS, AND LIGHTING SENSORS.
   * INSTALLATION AND PROCUREMENT OF LOOSE MICRO THERMO EQUIPMENT INCLUDING BUT NOT LIMITED TO INPUT/OUTPUT (I/O) BOARDS, MAIN CONTROLLERS, ANCILLARY CONTROLLERS, AND OVERRIDE SWITCHES.
   * INSTALLATION OF 365 FURNISHED PARASENSE EQUIPMENT INCLUDING BUT NOT LIMITED TO MAIN CONTROLLERS, AND REFRIGERATION LEAK DETECTION EQUIPMENT.
   * PROVIDING ALL RELAYS AND TRANSFORMERS NOT FURNISHED BY 365 FOR PROPER OPERATION OF EQUIPMENT.
9. COORDINATE ALL LINE VOLTAGE REQUIREMENTS WITH ELECTRICAL CONTRACTOR. ALL ADDITIONAL LINE VOLTAGE CIRCUITRY, DEVICES, CONDUIT, AND CONDUCTORS IN EXCESS OF E.C. SUPPLIED POWER IS THE RESPONSIBILITY OF E.M.C.
10. LOW VOLTAGE WIRING IS ALLOWED TO BE RAN OUTSIDE OF CONDUIT IF; ALLOWED BY AHJ AND NOT UNDERGROUND. PROVIDE CONDUIT IF NOT ALREADY INDICATED ON ELECTRICAL DRAWINGS AS REQUIRED. SIZE CONDUIT RACEWAYS PER MANUFACTURER'S RECOMMENDATIONS AND NOT TO EXCEED A 40% FILL RATIO.
11. AVOID RUNNING CABLE NEXT TO NOISE-GENERATING DEVICES, SUCH AS MOTOR STARTERS, CONTACTORS, INVERTERS, FLUORESCENT LIGHT BALLASTS, ARC WELDERS, ETC. IF POSSIBLE, KEEP CABLE MORE THAN 1 FOOT AWAY FROM NOISE-GENERATING DEVICES (IDEALLY, MORE THAN 5 FEET).
12. DO NOT RUN LOW VOLTAGE CABLING IN THE SAME CONDUIT AS HIGH-VOLTAGE WIRING, SUCH AS 120VAC OR 208VAC POWER WIRING. KEEP LOW VOLTAGE CABLE A MINIMUM OF 3 INCHES AWAY FROM HIGH-VOLTAGE WIRING (IDEALLY, AT LEAST 12 INCHES). IF NETWORK MUST CROSS PATHS WITH HIGH-VOLTAGE WIRING, CROSS THEM PERPENDICULAR - RUNNING LOW VOLTAGE AND HIGH-VOLTAGE WIRE IN PARALLEL INCREASES THE AMOUNT OF NOISE INDUCED ON THE NETWORK.
13. ENSURE GROUNDING AT EACH INPUT DEVICE'S 0V POWER TERMINAL TO A SEPARATE EARTH GROUND.
14. COORDINATE TRANSFORMERS WITH MICRO THERMO FOR PROPER TAPS FOR INDIVIDUAL EQUIPMENT. PROVIDE WIRING BETWEEN EQUIPMENT TO SHARE TRANSFORMERS IF POSSIBLE FOR GROUPED EQUIPMENT WITH PROPER VOLTAGES.
15. COORDINATE PROGRAMMING WITH FACTORY PRE-PROGRAMMED CONTROLLERS FROM MICRO THERMO AND REFRIGERATION EQUIPMENT SUPPLIER. PROVIDE REPROGRAMMING AND PROPER SETUP AS NECESSARY TO OBTAIN FINAL CONTROL POINT SETTINGS. CONTACT MICRO THERMO AT EVAN.ASCHOW@PARKER.COM.
16. TEMPERATURE AND CO2 SENSOR MOUNTING: INSTALL EMS CABLE FROM SENSOR TO I/O BOARD. MOUNT SENSOR ON BOX.SENSORS ON SALES FLOOR SHALL BE MOUNTED ON THE FRONT OF THE COLUMN. DO NOT INSTALL SENSORS IN HVAC SUPPLY AIR PATH OR IN DIRECT SUNLIGHT.
    -GYPSUM BOARD WALLS: PROVIDE A 2"X4" RECESSED BOX WITH A SINGLE GANG PLASTER RING
    -BLOCK WALLS AND COLUMNS: PROVIDE A 2"x4" BOX SURFACE MOUNTED VERTICALLY. INSULATE BEHIND SENSORS MOUNTED ON EXTERIOR WALL WITH 1/2" POLYSTYRENE SPACER.
17. E.M.C. SHALL PROVIDE ASSISTANCE TO THE ELECTRICIAN ON PERFORMING EQUIPMENT TESTS ON POWER SWITCHING PANELS AS NECESSARY.
18. E.M.C. SHALL CALIBRATE ALL CO2 SENSORS PER THE SENSOR MANUFACTURER'S INSTRUCTIONS IMMEDIATELY PRIOR TO LEAVING THE JOB.
19. E.M.C. TO PROVIDE ALL NECESSARY LOW VOLTAGE CABLING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION AND WIRING SCHEDULES.
20. COORDINATE PROCUREMENT OF REFRIGERATION "FREEWAY" PIPING AND SPUR KITS FROM PARASENSE FOR LEAK DETECTION EQUIPMENT. E.M.C TO INSTALL ALL FREEWAY PIPING IN ACCORDANCE WITH PARASENSE STANDARDS. COORDINATE SPUR KITS AND SAMPLING PORTS WITH PARASENSE FIELD TECHNICIAN. GENERAL GUIDELINES PROVIDED UNDER PARASENSE REFRIGERATION LEAK DETECTION SCOPE OF WORK.
21. COORDINATE INSTALLATION OF REFRIGERATION PRESSURE TRANSDUCERS WITH REFRIGERATION CONTRACTOR. PRESSURE TRANSDUCERS ARE SUPPLIED LOOSE FROM PARASENSE FOR INSTALLATION. TURN OVER FOR INSTALLATION.
22. ALL EXPOSED EMS WIRING TO BE INSTALLED AT TOP CHORD OF JOISTS.

PARASENSE INSTALLATION SCOPE OF WORK:

GENERAL GUIDELINES FOR THE GRM2 REFRIGERANT MONITOR CONTINUED

FMS / EMS INTEGRATION & LIQUID LINE SHUTDOWN

1. 2# RELAYS OUTPUTS WILL BE INSTALLED FROM THE GRM2 TO DEDICATED INPUTS ON THE FMS/EMS SYSTEM. THESE WILL BE WIRED FROM THE DUAL PILOT RELAY LOCATED AT THE BOTTOM LEFT HAND CORNER OF THE REFRIGERANT MONITOR ABOVE THE POWER INPUT MODULE. FOR OPTIONAL ADC-104 MONITOR, FMS/EMS CONNECTIONS WILL NEED TO BE LANDED IN THE REMOTE TERMINAL CONNECTION ENCLOSURE - DUAL PILOT RELAY NOT AVAILABLE IN ADC-104 MONITOR CONFIGURATION.

2. RELAY #1 (ALARM) - TO BE CONFIGURED ON THE FMS/EMS SYSTEM TO APPEAR AS A REFRIGERANT LEAK.

3. RELAY #2 (CRITICAL) - TO BE CONFIGURED ON THE FMS/EMS SYSTEM TO APPEAR AS A REFRIGERANT LEAK - CRITICAL ALARM: SHOULD ACTIVATE REMOTE BEACON AND SOUNDER(S), PLUS ANY VENTILATION SYSTEMS WITHIN THE MACHINE ROOM IF APPLICABLE.

4. FOR THE IMPLEMENTATION OF LIQUID LINE SHUTDOWN WITH THE ADC-104 MONITOR, CABLING WILL NEED TO BE RUN FROM THE REMOTE TERMINAL CONNECTION ENCLOSURE TO AVAILABLE DIGITAL INPUTS ON THE FMS/EMS CONTROLS AND PROGRAMMED TO CLOSE THE LL SOLENOID. NOTE - OUTPUT FROM THE GRM2 WILL BE 24V DC, IF THE FMS/EMS CONTROLS ARE UNABLE TO ACCEPT A 24V DC INPUT, AN ISOLATION ICE CUBE RELAY WILL NEED TO BE INSTALLED TO PROVIDE A DRY CONTACT.

5. ACCESS INTEGRATION TO FMS VIA REAL TIME ON PARASENSE DASHBOARD PER WHOLE FOODS MARKET SPECIFICATION

FREEWAY RUNS - PIPEWORK

1. THE FREEWAY IS TO BE RUN FROM THE GRM2 MONITOR TO THE SITE SPECIFIC LOCATIONS DETAILED ON THE MONITOR CONFIGURATION.

2. THE END OF THE FREEWAY WILL BE INSERTED INTO THE MANIFOLD SUPPLIED WITH THE SPUR KIT. THE MANIFOLD SHOULD BE LOCATED IN A POSITION WHERE IT CAN BE ACCESSED FOR FUTURE VERIFICATION OF PIPEWORK INTEGRITY. WHERE MULTIPLE AREAS ARE BEING COVERED ON ONE CHANNEL, THE FREEWAY MANIFOLD IS TO BE POSITIONED CENTRALLY BETWEEN THE MULTIPLE LOCATIONS.

3. CARE MUST BE TAKEN DURING THE INSTALLATION PHASE TO ENSURE THE FREEWAY IN NOT FLATTENED OR KINKED AS THIS WILL RESULT IN REDUCED AIRFLOW WHICH MAY RESULT IN A FAULT ON THE SYSTEM, OR DISCOVERED AT THE COMMISSIONING STAGE.

PARASENSE INSTALLATION SCOPE OF WORK:

GENERAL GUIDELINES FOR THE GRM2 REFRIGERANT MONITOR CONTINUED

4. DO NOT RUN THE FREEWAY FROM WARM AREAS THROUGH REFRIGERATED SPACES AS THIS WILL CAUSE MOISTURE TO BUILD UP IN THE FREEWAY.

5. THE SUPPLIED 5300-P FREEWAY IDENTIFICATION MARKERS SHOULD BE FITTED TO BOTH ENDS OF THE FREEWAY, ADJACENT TO THE SPUR MANIFOLD AND THE CONNECTORS AT THE BASE OF THE MONITOR.

SPUR KIT INSTALLATION - PIPEWORK

1. SPUR KITS ARE FACTORY SUPPLIED AT EITHER 15FT OR 25FT LENGTHS AND COME IN 1, 2, 3 OR 4 WAY SPUR KIT VERSIONS. THE SPECIFIC SPUR KIT REQUIRED FOR A LOCATION WILL BE SPECIFIED ON THE CONFIGURATION DEPENDENT ON THE APPLICATION.

2. THE SPUR KIT SAMPLE POINTS SHOULD ALWAYS BE LOCATED AS CLOSE AS POSSIBLE TO THE HIGH PROBABLE LEAK POINTS IN THE LOCATIONS SPECIFIED. EXAMPLE OF WHICH ARE OUTLINE BELOW.

3. THE INDIVIDUAL SPUR KIT RUNS SHOULD BE NEATLY RUN FROM THE MANIFOLD INSTALLED ONTO THE FREEWAY TO THE DESIRED LOCATION FOLLOWING EXISTING CABLE RUNS OR FRAMEWORK AND SECURED EVERY 12-18". THE SPURS SHOULD NEVER BE CUT. ALL EXCESS SPUR KIT PIPEWORK SHOULD BE NEATLY COILED (8" DIAMETER) AT THE SAMPLE LOCATION WITH THE SAMPLE POINT SECURED POINTING DIRECTLY DOWNWARDS.

4. DO NOT SECURE THE FREEWAY TO A SURFACE THAT IS EITHER TOO HOT TO TOUCH OR WHERE THERE IS A PROBABILITY OF ICE BUILDUP.

5. SPURS MUST ALWAYS BE SECURED IN A LOCATION WHERE THEY WILL NOT BE ABLE TO DRAW LIQUID INTO THE SYSTEM.

6. SPURS SHOULD NOT MAKE LARGE JUMPS UNSUPPORTED AS IT LEAVES THE PIPING VULNERABLE TO DAMAGE.

INDIVIDUAL SPUR LOCATIONS - PIPEWORK

MULTI-POINT TECHNIQUE EVENLY SPREAD TO TARGET MOST LIKELY SOURCE OF LEAKAGE AND IN ORDER OF PRIORITY:

1. RACKS AND HEADERS - (4-WAY SPUR KIT) LOCATE ALL THE SHUT OFF VALVES, SCHRAEDERS, PRESSURE REGULATORS, SOLENOID VALVES, FLARE AND JOINT AND AREAS OF HIGH VIBRATION, PRESSURE AND TEMPERATURE CHANGES. DISTRIBUTE THE SAMPLE POINTS EVENLY AMONGST THE EQUIPMENT IN DOWNWARD POINTING POSITION AND NEATLY TIE. THE SPUR KIT SAMPLE POINTS SHOULD NOT BE LOCATED AT FLOOR LEVEL ON ALL CORNERS OF THE RACK.

PARASENSE INSTALLATION SCOPE OF WORK:

GENERAL GUIDELINES FOR THE GRM2 REFRIGERANT MONITOR CONTINUED

2. REMOTE HEADERS- (4-WAY SPUR KIT) HEADERS WILL USUALLY BE MONITORED WITH THE COOLER/FREEZER THEY ARE MOUNTED ON (UNLESS FLOOR MOUNTED), WITH 2 SPUR KIT SAMPLE POINTS BEING LOCATED AT THE CONTROL SOLENOIDS AND THE OTHER 2 SPUR KIT SAMPLE POINTS DEDICATED TO THE EVAPORATOR(S) WITHIN THE WALK-IN.

3. WALK-IN FREEZERS - (TYPICALLY 1 - 3 -WAY SPUR KIT) AS PER WALK-IN COOLERS, EXISTING PENETRATIONS SHOULD BE UTILIZED WHERE AVAILABLE. WHERE AN EXISTING PENETRATION IS NOT AVAILABLE, THE IDEAL LOCATION FOR THE SAMPLE POINT IS BEHIND THE EVAPORATOR MIDWAY BETWEEN THE BACK WALL, SECURED 8" DOWN FROM THE CEILING PANEL IN THE AIR FLOW, AND PROPERLY SEALED ON BOTH SIDES OF THE CEILING PANEL. ALL SAMPLE POINTS MUST BE MOUNTED IN THE DOWNWARD POSITION CLEAR OF STANDING WATER AND DEBRIS WITH EXCESS SPUR KIT PIPEWORK TO BE COILED ABOVE THE FREEZER.

4. WALK-IN COOLERS - (TYPICALLY 1 - 4 -WAY SPUR KIT) SPUR KITS WILL GENERALLY BE SUPPLIED ALLOWING 1 SPUR KIT SAMPLE POINT PER EVAPORATOR WITHIN THE COOLER AND 1 SPUR KIT SAMPLE POINT TO BE POSITIONED ON TOP OF THE COOLER. THE SPUR KIT SAMPLE POINT LOCATED ON TOP SHOULD BE POSITIONED NEAR ANY CONTROL VALVES OR SOLENOIDS. WHERE AVAILABLE, EXISTING PENETRATIONS INTO THE COOLER SHOULD BE UTILIZED WITH THE SAMPLE POINT BEING SECURED POINTING DIRECTLY DOWNWARDS IN THE AIRFLOW BEHIND THE EVAPORATOR. WHERE AN EXISTING PENETRATION IS NOT AVAILABLE, THE IDEAL LOCATION FOR THE SAMPLE POINT IS 3FT IN FRONT OF THE EVAPORATOR SECURED 8" DOWN FROM THE CEILING PANEL IN THE AIR FLOW, AND PROPERLY SEALED ON BOTH SIDES OF THE CEILING PANEL. ALL SAMPLE POINTS MUST BE MOUNTED IN THE DOWNWARD POSITION CLEAR OF STANDING WATER AND DEBRIS WITH EXCESS SPUR KIT PIPEWORK TO BE COILED ABOVE THE COOLER.

5. SALES FLOOR CASE RUNS:- (2 OR 4-WAY SPUR KIT) 25FT SPUR KITS WILL BE SUPPLIED FOR THESE LOCATIONS. THE FREEWAY SHOULD BE RUN TO THE CENTER OF THE CASE RUN AND THE SUPPLIED MANIFOLD FITTED, THEN 2 SPURS SHOULD THEN RUN AS FAR AS POSSIBLE TOWARDS EITHER END. THE OTHER 2 SPURS SHOULD BE POSITIONED MIDWAY BETWEEN THESE POINTS WITH THE EXCESS COILED AT THE SAMPLE POINT END. ALL SAMPLE POINTS MUST BE SECURED SO THAT THEY ARE NOT IN CONTACT WITH THE FLOOR WHERE THE INGRESS OF LIQUID MAY OCCUR. WHERE TXVS ARE UTILIZED, THE SAMPLE POINTS SHOULD BE INSTALLED AT THESE LOCATIONS.

SYMBOLS LEGEND

CIRCUITING & WIRING

P1 HOMERUN TO MAIN EQUIPMENT.
CONDUIT CONCEALED
CONDUIT IN/UNDER FLOOR/GROUND CONSTRUCTION
EXPOSED CONDUIT
FLEXIBLE CONDUIT
LOW VOLTAGE CABLE (NOT ROUTED IN CONDUIT)
CONDUIT TURNING DOWN
CONDUIT TURNING UP
CONNECTION POINT OR EQUIPMENT TERMINATION
EQUIPMENT TERMINATION

ANNOTATION

1	MECHANICAL OR FIRE PROTECTION PLAN CALLOUT
1	PLUMBING PLAN NOTE CALLOUT
1	ELECTRICAL PLAN NOTE CALLOUT
1	TECHNOLOGY PLAN CALLOUT
1	PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE OR EQUIPMENT SCHEDULES.
1	EQUIPMENT DESIGNATION (365 FURNISHED, CONTRACTOR INSTALLED)
CU 1	MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
1 M1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER

ENERGY MANAGEMENT

XXX	REFRIGERATION CIRCUIT
MTCP	MICRO THERMO CONTROL PANEL
R	LIGHTING RELAY
RS	RETURN AIR TEMP SENSOR
S	TEMP SENSOR
P	PRESSURE SENSOR
DT	DEFROST TERMINATION
HS	MICRO THERMO HORN STROBE
EEV	EEV VALVE
EEPR	EEPR VALVE
SLSV	SUCTION LINE SOLENOID VALVE
DS	DOOR SWITCH
DTS	DUAL-TEMP SWITCH
RBS	REMOTE BEACON SOUNDER
LLS	LIGHT LEVEL SENSOR
MT500	MICRO THERMO 8UI BOARD
MT504	MICRO THERMO 8UI / 4RO BOARD
MT508	MICRO THERMO 8UI / 8RO / 4DI BOARD
MT512	MICRO THERMO 8UI / 12RO / 8DI BOARD
MT722	MICRO THERMO 2UI POWER FOR MT716
MT716	MICRO THERMO 16UI
DT-EEPR	MICRO THERMO 6 EEPR
HS	HUMIDITY SENSOR
C02	CARBON DIOXIDE SENSOR
TS	TEMPERATURE SENSOR
H	HUMIDISTAT
T	THERMOSTAT

STANDARD MOUNTING HEIGHTS

MECHANICAL (AFF, AFG, UNLESS NOTED OTHERWISE)

THERMOSTATS (TOP OF DEVICE)	48"
CONTROLS (TOP OF DEVICE)	48"
TEMPERATURE SENSORS (PUBLIC AREAS)	72"
TEMPERATURE SENSORS (NON-PUBLIC SPACES)	48"

ABBREVIATIONS

(ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS.)

A	
A	AMPERES
A	AIR (COMPRESSED)
A/C	AIR CONDITIONING
ACC	AIR COOLED CHILLER
ACCU	AIR COOLED COND UNIT
ADA	AMERICANS WITH DISABILITIES ACT
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
AO	ANALOG OUTPUT
AP	ACCESS PANEL
AP	ACCESS POINT
ATL	ACROSS-THE-LINE
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
B	
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BB	BACKBONE
BD	BACKDRAFT DAMPER
BD	BLOWDOWN
BD	BUILDING DISTRIBUTOR
BDF	BUILDING DISTRIBUTION FRAME
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BFP	BOILER FEED PUMP
BI	BINARY INPUT
BKR	BREAKER
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTU	BRITISH THERMAL UNIT
C	
CC	CONDUIT CAT CATEGORY
CATV	CABLE TELEVISION SYSTEM
CD	CANDELA
CD	CAMPUS DISTRIBUTOR
CT	CURRENT TRANSFORMER
CCTV	CLOSED CIRCUIT TELEVISION
CH	CHILLER
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
CP	CONDENSATE PUMP
CPT	CONTROL POWER TRANSFORMER
CPVC	CHLORINATED POLYVINYL CHLORIDE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CWP	COOLING TOWER PUMP
CU	COPPER
CU	CONDENSING UNIT
CVD	CUMULATIVE VOLTAGE
CHP	CHILLED WATER PUMP
D	
DB	DECIBELS
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNIT
DI	DIGITAL INPUT
DI	DUCTILE IRON
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPI	DIFFERENTIAL PRESSURE INDICATOR
DPST	DOUBLE-POLE, SINGLE-THROW
DS	DOWNSPOUT
DS	DUCT SILENCER
DX	DIRECT EXPANSION
E	
(E)	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EIA	ELECTRONIC INDUSTRIES
EL	ELECTRIFIED LOCK OR LATCH
EM	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF
ER	EQUIPMENT ROOM
ESFR	EARLY SUPPRESSION FAST RESPONSE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS/OWNER
FCA	FAULT CURRENT AMPS
FCU	FAN COIL UNIT
FD	FLOOR DISTRIBUTOR
FD	FLOOR DRAIN
FFA	FROM FLOOR ABOVE
FFB	FROM FLOOR BELOW
FF	FINISHED FLOOR
FHC	FIRE HOSE CABINET
FL	FLOW LINE
FLA	FULL LOAD AMPS
FLR	FLOOR
FU	FURNACE
FVNR	FULL-VOLTAGE, NON-REVERSING
G	
GC	GENERAL CONTRACTOR
GE	GROUNDING EQUALIZER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFR	GROUND FAULT RELAY
G	GROUND
GND	GROUND
GPM	GALLONS PER MINUTE
GRS	GALVANIZED RIGID STEEL
GYP	GYPSUM BOARD
H	
HC	HORIZONTAL CROSS-CONNECT
HD	HEAD HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HTG	HEATING
HTR	HEATER
HVU	HEATING AND VENTILATING UNIT
HWP	HEATING WATER PUMP
HZ	HERTZ
I	
IC	INTERMEDIATE CROSS-CONNECT
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN WC	INCHES OF WATER COLUMN
IP	INTERNET PROTOCOL
ISC	SHORT CIRCUIT CURRENT
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
ISP	INTERNET SERVICE PROVIDER
ISP	INSIDE PLANT CABLE
J	
JB	JUNCTION BOX
J-BOX	JUNCTION BOX
K	
kcmil	1000 CIRCULAR MILS
KK	KIRK KEY
kV	KILOVOLT
kVA	KILOVOLT-AMPS
kVAR	KILOVOLT-AMPS REACTIVE
kW	KILOWATT
KWh	KILOWATT-HOUR
L	
L	LOUVER
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LCC	LIMITED COMBUSTIBLE CABLE
LDB	LEAVING DRY BULB
LEC	LOCAL EXCHANGE CARRIER
LED	LIGHT-EMITTING DIODE
LF	LINEAR FEET
LP	LOW PRESSURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
M	
M-M	MULTIMODE MAN
MAN	METROPOLITAN AREA NETWORK
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MC	MAIN CROSS-CONNECT NETWORK
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MD	MOTORIZED DAMPER
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MG	MOTOR GENERATOR
MH	MAINTENANCE HOLE
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
MPOE	MAIN POINT OF ENTRANCE
MPOP	MAIN POINT OF PRESENCE
MSB	MAIN SWITCHBOARD
MSWB	MAIN SWITCHBOARD
MS/TP	MASTER SLAVE/TOKEN PASSING - COMMUNICATION TRUNK
MTD	MOUNTED
MU	MAKE-UP
N	
N/A	NOT APPLICABLE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION, INC.
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NANO METER
O	
OA	OUTSIDE AIR
OC	ON CENTER
ORD	OVERFLOW ROOF DRAIN
OS	OCCUPANCY SENSOR
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSP	OUTSIDE PLANT
P	
P	POLE
PBX	PRIVATE BRANCH EXCHANGE RETURN
PCR	PUMPED CONDENSATE
PDI	PLUMBING DRAINAGE INSTITUTE
PDU	POWER DISTRIBUTION UNIT
PH	PHASE (Ø)
PIV	PHASE POST INDICATOR VALVE
PNL	PANEL
PNLBD	PANELBOARD
POE	POWER OVER ETHERNET
POTS	STANDARD ANALOG TELEPHONE LINE
POTS	PLAIN OLD TELEPHONE SERVICE
PROVIDE	FURNISH AND INSTALL
PRV	PRESSURE REDUCING VALVE
PSTN	PUBLIC SWITCHED TELELPHONE NETWORK
PT	POTENTIAL TRANSFORMER
PTP	POINT-TO-POINT
PTZ	PAN, TILT, ZOOM
PVC	POLYVINYL CHLORIDE
Q	
QTY	QUANTITY
R	
RA	RETURN AIR
RC	ROOM CRITERIA
RCP	REINFORCED CONCRETE PIPE
RCPT	RECEPTACLE
RD	ROOF DRAIN
RD	RETURN DUCT
REV	REVISION
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RH	ROOF HOOD
RHG	REFRIGERANT HOT GAS
RLA	RUNNING LOAD AMPS
RMC	RIGID METAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RTU	ROOFTOP UNIT
RU	RACK UNIT
S	
SA	SUPPLY AIR
SATV	SYNCHRONOUS OPTICAL NETWORK
SCP	STEAM CONDENSATE PUMP
SD	SMOKE DUCT DETECTOR
SD	SUPPLY DUCT
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SF	SUPPLY FAN
SPDT	SINGLE-POLE, DOUBLE-THROW
SPST	SINGLE-POLE, SINGLE-THROW
SP	STATIC PRESSURE
SP	SUMP PUMP
SS	STAINLESS STEEL
SS	SANITARY SEWER
SS	SOIL STACK
ST	SHUNT TRIP
ST	STEAM TRAP
STC	SOUND TRANSMISSION CLASS
STM	STEAM
SWBD	SWITCHBOARD
T	
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBD	TO BE DETERMINED
TC/C	TEMPERATURE CONTROLS CONTRACTOR
TDH	TOTAL DYNAMIC HEAD
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TGB	TELECOMMUNICATIONS GROUND BUS BAR
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TL	TWISTLOCK
TMGB	TELECOMMUNICATIONS MAIN GROUND BUS BAR
TR	TAMPER RESISTANT
TR	TELECOMMUNICATIONS ROOM
TT	TEMPERATURE TRANSMITTER
TWU	THROUGH WALL AIR CONDITIONING UNIT
TX	TRANSFORMER
TYP	TYPICAL
U	
U/F	UNDERFLOOR
U/G	UNDERGROUND
U/S	UNDERSLAB
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	
V	VOLT(S)
VAC	VOLTS ALTERNATING CURRENT
VD	VOLTAGE DROP
VDC	VOLTS DIRECT CURRENT
VAV	VARIABLE AIR VOLUME
VCP	VITRIFIED CLAY PIPE
VFD	VARIABLE FREQUENCY DRIVE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	
W	WIRE
W/	WITH
W/O	WITHOUT
WAN	WIDE AREA NETWORK
WAP	WIRELESS ACCESS POINT
WB	WET BULB
WC	WATER COLUMN
WG	WATER GONG
WPD	WATER PRESSURE DROP
WP	WEATHER PROOF COVER
WR	WEATHER RESISTANT
WS	WASTE STACK
WSFU	WATER SUPPLY FIXTURE UNIT
WT	WATERTIGHT
WT	WEIGHT
X	
XP	EXPLOSION-PROOF

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE
ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager:
JCS
Checked By:

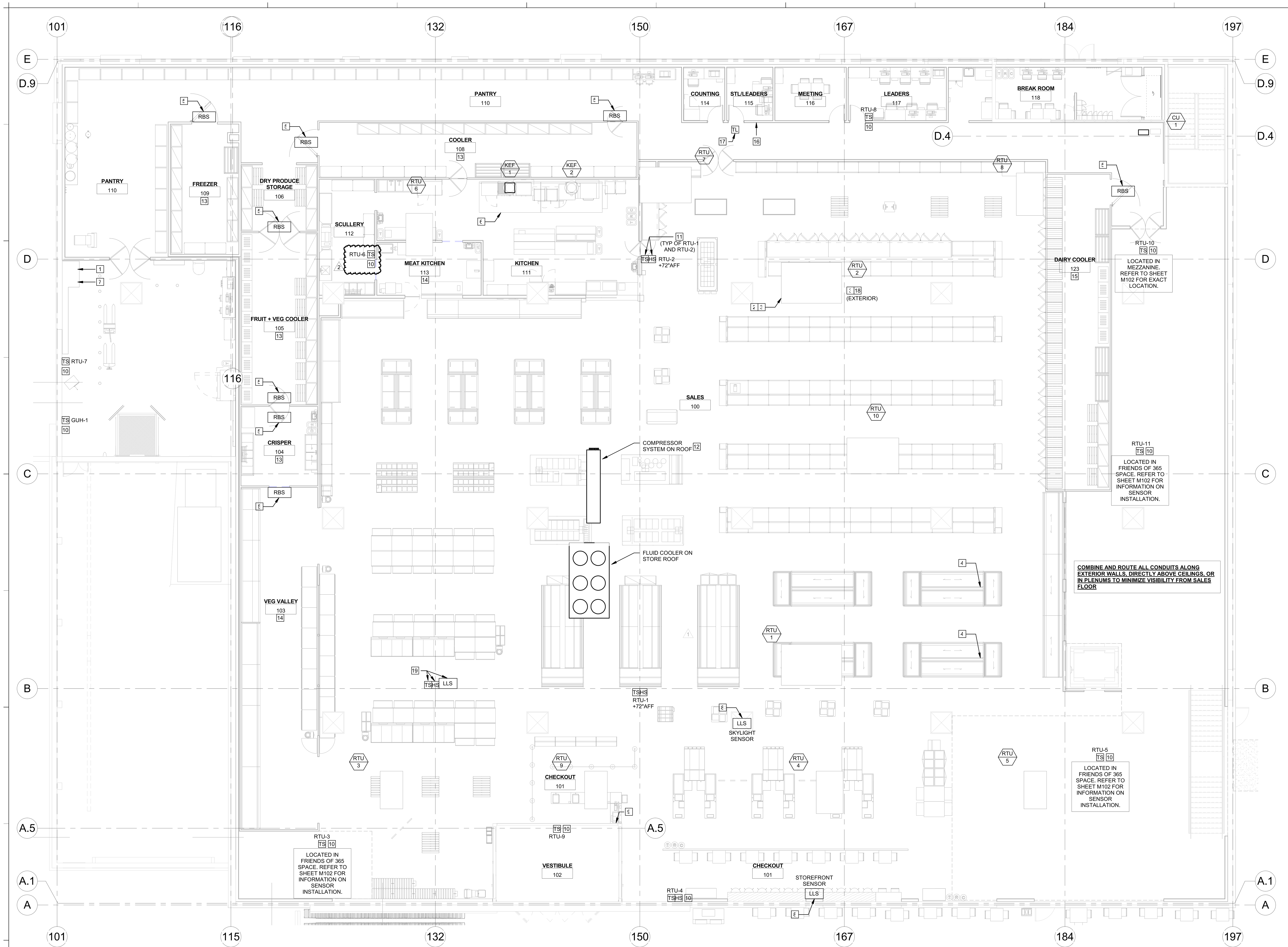
Drawn by:
JCS
Document date:
05/21/18
Template date:

Project No.
62911019

Professional Seal

Sheet Title
ENERGY MANAGEMENT NOTES AND SYMBOLS

Sheet No.
EM000



1 ENERGY MANAGEMENT PLAN
1/8" = 1'-0"

EMS PLAN NOTES

1 MAIN PARASENSE EQUIPMENT LOCATION. INCLUDING BUT NOT LIMITED TO STORE FUSION PLATFORM, GRM, AND ERM2.

2 INSTALL SIEMENS OUTDOOR WEATHERSTATION ON ROOFTOP UNIT. COORDINATE LOW VOLTAGE WIRING TO ROUTE THROUGH ROOFTOP THRU CURB.

3 INSTALL OUTDOOR SIEMENS HUMIDITY, TEMPERATURE, AND LIGHT SENSOR PER DETAILS ON SHEET EM300 AND EM403.

4 LOCATION OF FROZEN FOODS AREA SPUR KIT MANIFOLD. COORDINATION LOCATION OF SAMPLING PORT LOCATIONS WITH PARASENSE REPRESENTATIVE.

5 PARASENSE REMOTE BEACON SENSOR.

6 PROVIDE CT SENSOR ON KITCHEN HOOD EXHAUST FAN MOTOR LAEDS TO MONITOR OPERATION OF THE MAIN KITCHEN EXHAUST HOOD OPERATION.

7 LOCATION OF SIEMENS SCREAM LOGIC AND POWER INTERFACE COMBO PANEL.

8 LOCATION OF INTERIOR LIGHT LEVEL SENSOR. MOUNT PER MANUFACTURER'S INSTRUCTIONS.

9 PROVIDE LIGHTING OVERRIDE SWITCHES. REFER TO SIEMENS CONTROL SCHEMATIC FOR ROUGH-IN REQUIREMENTS.

10 INSTALL INDOOR SIEMENS HUMIDITY AND TEMPERATURE SENSOR PER DETAILS ON SHEET EM300 AND EM403.

11 SALES FLOOR RTU TEMPERATURE / HUMIDITY SENSORS TO BE FURNISHED BY RTU MANUFACTURER AND INSTALLED BY EMS CONTRACTOR.

12 LOCATION OF REFRIGERATION RACK SPUR KIT MANIFOLD. COORDINATE FINAL SAMPLING PORT LOCATIONS WITH PARASENSE REPRESENTATIVE.

13 LOCATION OF PARASENSE WALK-IN COOLER/FREEZER SPUR KIT MANIFOLD. PROVIDE A SAMPLING PORT AT EACH EVAPORATOR AND SLSV FOR LEAK MANAGEMENT AND A SAMPLING PORT MOUNTED PER DETAIL 2 ON SHEET EM100 FOR LEAK DETECTION. COORDINATE FINAL SAMPLING PORT LOCATIONS WITH PARASENSE REPRESENTATIVE.

14 LOCATION OF PARASENSE VEG VALLEY/MEAT SPUR KIT MANIFOLD. PROVIDE A SAMPLING PORT AT EACH EVAPORATOR AND SLSV FOR LEAK MANAGEMENT AND A SAMPLING PORT MOUNTED PER DETAIL 2 ON SHEET EM100 FOR LEAK DETECTION. COORDINATE FINAL SAMPLING PORT LOCATIONS WITH PARASENSE REPRESENTATIVE.

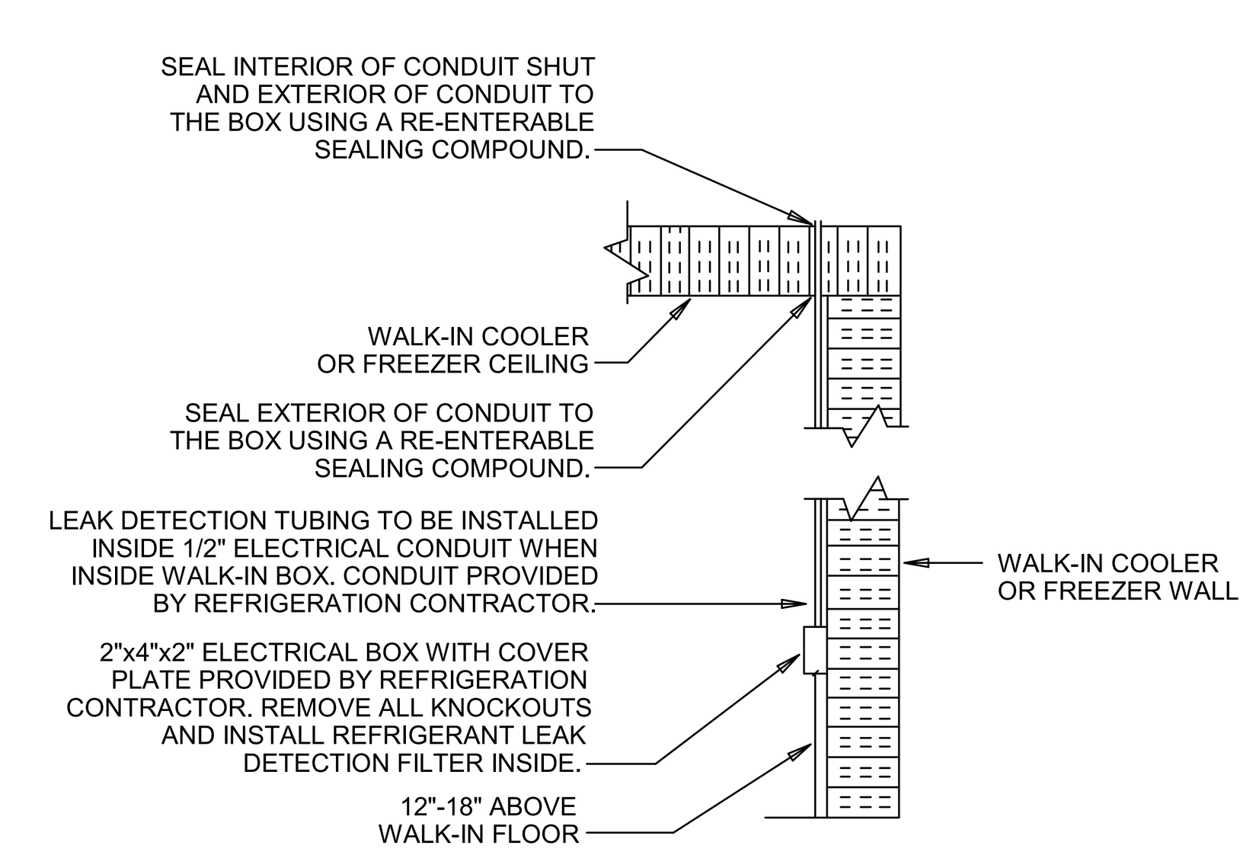
15 LOCATION OF PARASENSE DAIRY COOLER SPUR KIT MANIFOLD. PROVIDE A SAMPLING PORT AT THE SLSV FOR LEAK MANAGEMENT. COORDINATE FINAL SAMPLING PORT LOCATIONS WITH PARASENSE REPRESENTATIVE.

16 PROVIDE LIGHTING OVERRIDE SWITCHES. REFER TO SIEMENS CONTROL SCHEMATIC FOR ROUGH-IN REQUIREMENTS.

17 SIEMENS TOWER LIGHT WITH BUZZER FOR SERVER ROOM TEMPERATURE ALARM. SURFACE MOUNT ABOVE DOOR FRAME. REFER TO EM300. INSTALL TEMPERATURE SENSOR IN SERVER ROOM, WIRED BACK TO MAIN EMS PANEL.

18 INSTALL PARASENSE EXTERNAL ENVIRONMENTAL SENSOR PER DETAILS ON SHEET EM302 AND EM400.

19 INSTALL PARASENSE INTERNAL ENVIRONMENTAL SENSOR PER DETAILS ON SHEET EM302 AND EM400.



2 WALK-IN SAMPLING PORT INSTALLATION DETAIL
NTS

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
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2	05/21/18	Addendum #2

Project Name

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1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: JCS
Checked By:
Drawn by: JCS
Document date: 05/21/18
Template date:

Project No.
62911019

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Sheet Title
ENERGY MANAGEMENT PLAN

Sheet No. EM100

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EMS PLAN NOTES

1. PROVIDE RETURN AIR TEMPERATURE SENSOR FOR DUAL DISCHARGE EVAPORATOR COIL. REFERENCE DETAIL 4 ON SHEET EM101 FOR INSTALLATION DETAILS.

2. PROVIDE RETURN AIR TEMPERATURE SENSOR FOR SINGLE DISCHARGE EVAPORATOR COIL. REFERENCE DETAIL 3 ON SHEET EM101 FOR INSTALLATION DETAILS.

3. PROVIDE (1) BELDEN 8760 SENSOR CABLES FOR CASE SENSORS AND (1) BELDEN 8760 SENSOR CABLES FOR CASE SERIES WIRED LIGHTING RELAYS TO INPUT BOARDS LOCATED AT MICRO THERMO CONTROL PANEL. UTILIZE 1" CONDUIT FOR ROUTING. REFER TO INPUT BOARDS ON SHEET EM301.

4. LOCATION OF MICRO THERMO HORN/STROBE FOR MICRO THERMO ALARM.

5. LOCATION OF MICRO THERMO CONTROL PANEL (BACKBONE LOCATION) REFER TO SHEET EM301 FOR ADDITIONAL INFORMATION. ROUTE (1) CAT6 CABLE TO THE REMOTE HMI AT RACK, (1) CAT6 CABLE TO REMOTE HMI IN LEADERS, (1) BELDEN 8461 NETWORK CABLE TO SIEMENS CONTROLLER, (1) BELDEN 8670 SENSOR CABLE TO HORN STROBE, (1) BELDEN 8670 SENSOR CABLE TO THE ROOF MOUNTED TRILLIUM CONDENSER FOR MANUAL PRE-COOL AND (2) BELDEN 8670 SENSOR CABLE TO TEMP/HUMIDITY SENSORS ON SALES FLOOR.

6. PROVIDE (2) BELDEN 8760 SENSOR CABLES FOR EACH CASE SENSOR TO INPUT BOARDS LOCATED AT MICRO THERMO CONTROL PANEL. UTILIZE POWER POLE FOR ROUTING. REFER TO INPUT BOARDS ON SHEET EM301.

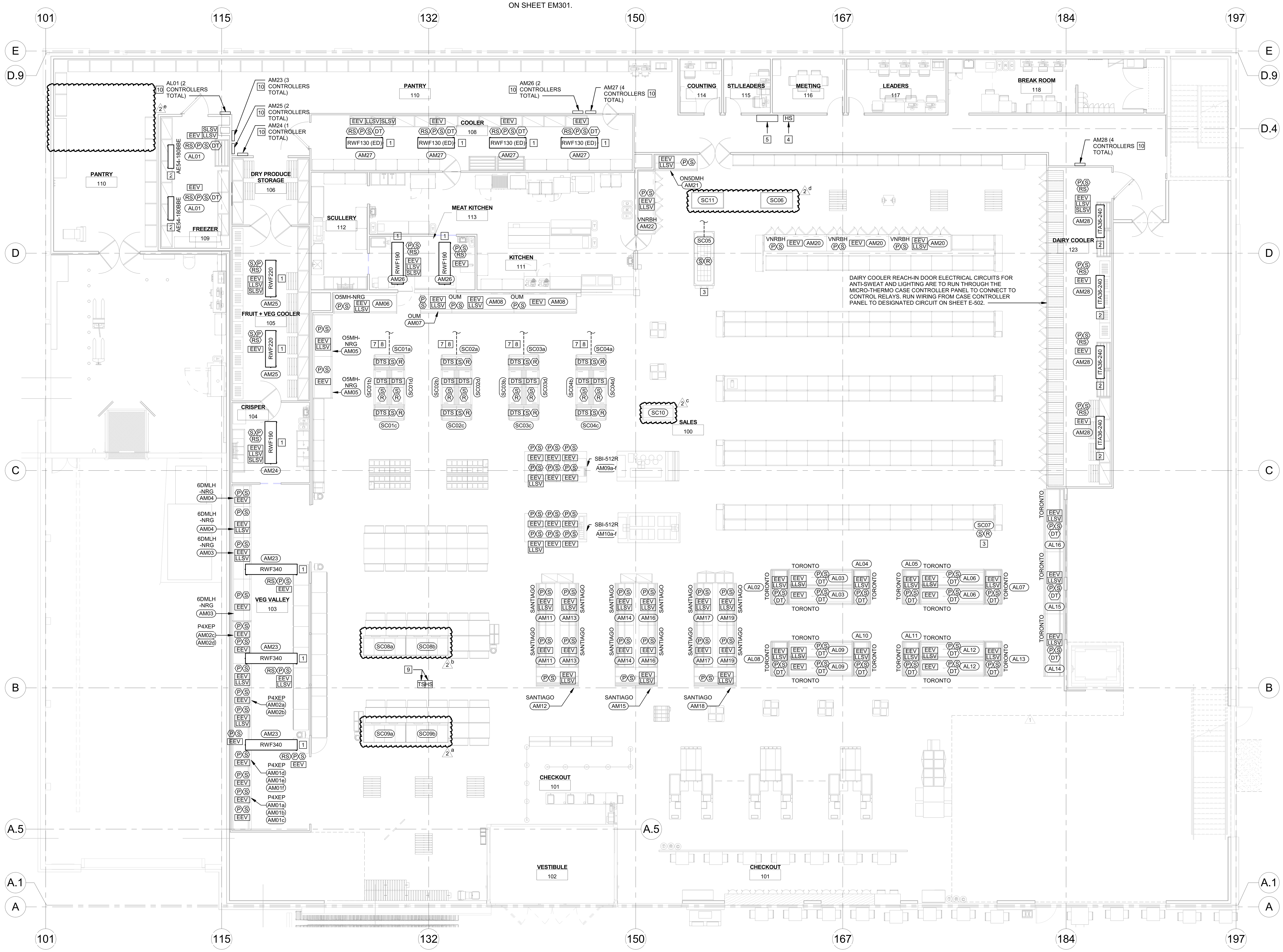
7. PROVIDE (4) BELDEN 8760 SENSOR CABLES FOR CASE SENSORS AND (4) BELDEN 8760 SENSOR CABLES FOR CASE SWITCHES TO INPUT BOARDS LOCATED AT MICRO THERMO CONTROL PANEL. UTILIZE 1" CONDUIT FOR ROUTING. REFER TO INPUT BOARDS ON SHEET EM301.

8. PROVIDE (1) BELDEN 8760 SENSOR CABLE FOR CASE SERIES WIRED LIGHTING RELAYS TO INPUT BOARDS LOCATED AT MICRO THERMO CONTROL PANEL. UTILIZE 1" CONDUIT FOR ROUTING. REFER TO INPUT BOARDS ON SHEET EM301.

9. LOCATION OF MICRO THERMO TEMPERATURE AND HUMIDITY SENSOR.

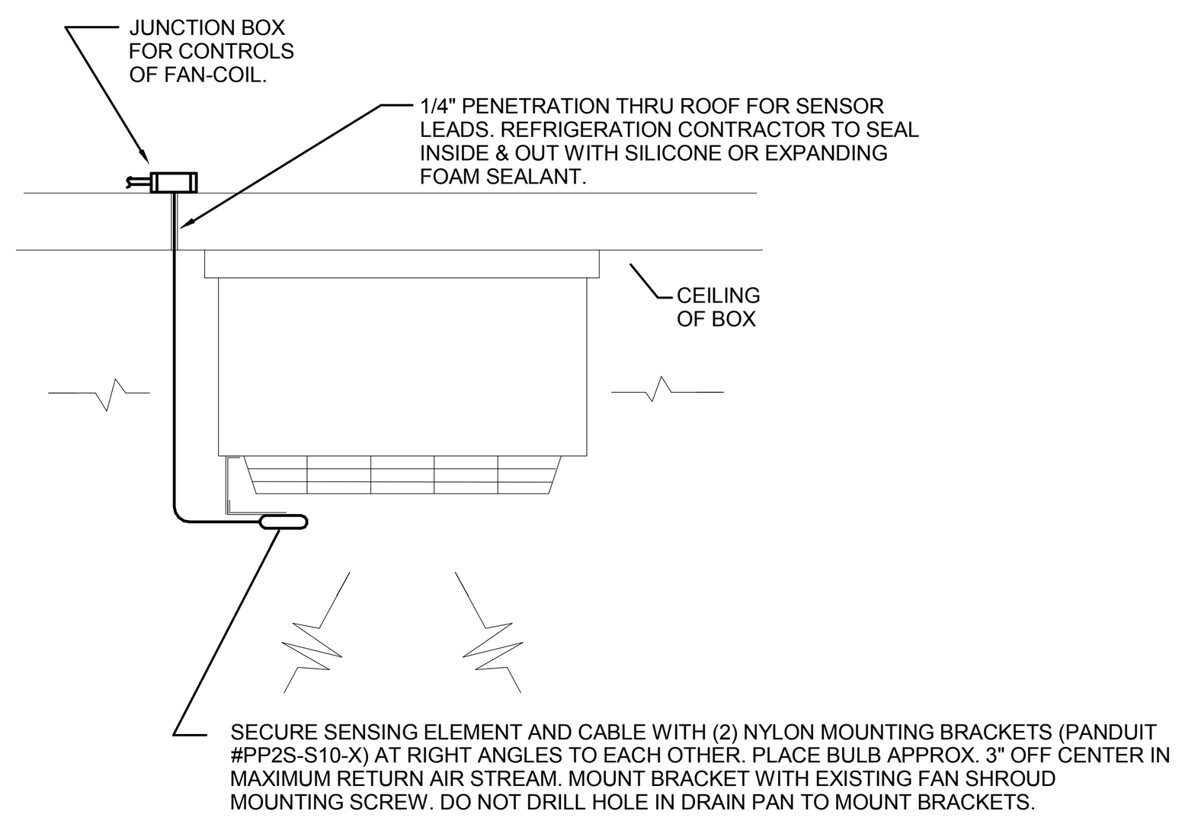
10. LOCATION OF WALK-IN CONTROL PANEL(S) FOR REFRIGERATION CIRCUITS INDICATED. MOUNT PANELS HIGH ON COOLER PANEL WALL AND STACK AS REQUIRED. COORDINATE INSTALLATION WITH REFRIGERATION CONTRACTOR. REFER TO SHEET EM301.

11. PROVIDE (1) BELDEN 8760 SENSOR CABLE FOR HOT WATER RECLAIM TEMPERATURE SENSOR TO INPUT BOARDS LOCATED AT MICRO THERMO CONTROL PANEL. UTILIZE 3/4" CONDUIT FOR ROUTING. REFER TO INPUT BOARDS ON SHEET EM301.

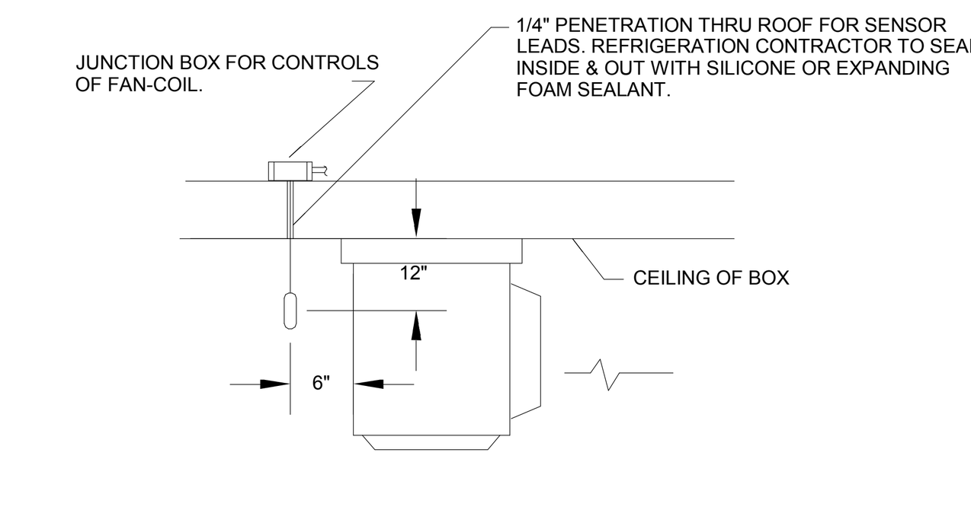


1 REFRIGERATION CONTROL PLAN

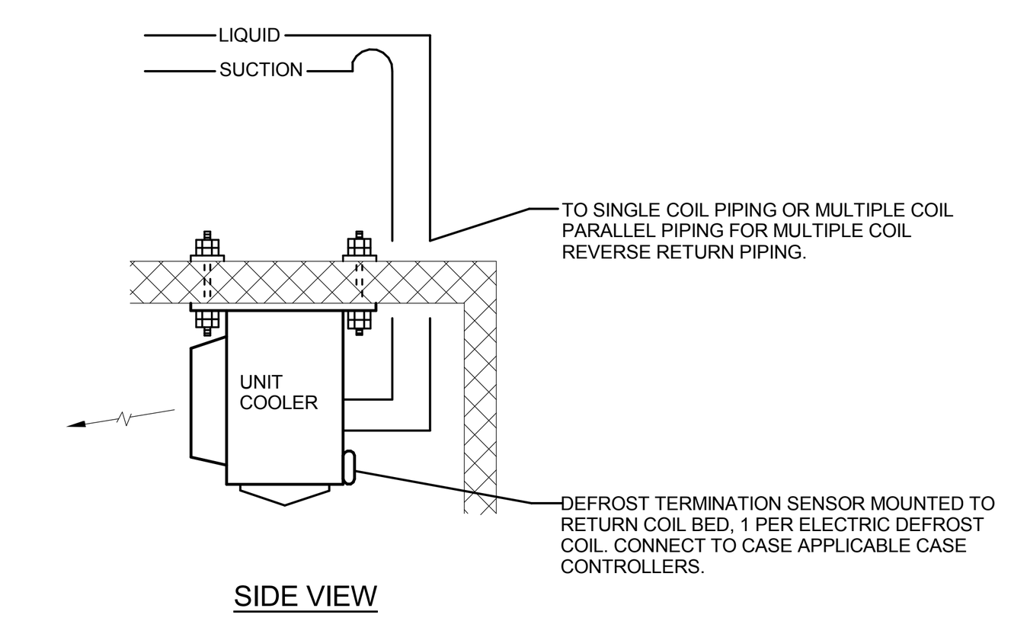
1/8" = 1'-0"



4 DUAL COIL EVAP TEMP SENSOR DETAIL



3 SINGLE COIL EVAP TEMP SENSOR DETAIL



2 ELECTRIC DEFROST TERMINATION TEMPERATURE SENSOR LOCATION

GENERAL REFRIGERATION EMS NOTES

1. THE EMS SUPPLIER RESERVES THE RIGHT TO CHANGE AND/OR MODIFY ANY/ALL COMPONENTS AND TO MAKE CHANGES TO EQUIPMENT DESIGN.

2. PROVIDE CABLE ACCORDING TO EM DRAWINGS. NO DEVIATION FROM DRAWINGS WILL ACCEPTED. LABEL EACH END OF EMS CABLES WITH TERMINATION POINT OF THE OPPOSITE END OF THE EMS CABLE.

3. TERMINATE EMS CABLES IN ACCORDANCE WITH EMS SUPPLIER INSTALLATION INSTRUCTIONS.

4. MINOR CHANGES IN MATERIALS OR TERMINATIONS WILL, IN NO CASE, CAUSE AN INCREASE IN COST TO 365 OR SERVE CAUSE TO GENERATE CHANGE ORDER PAPERWORK.

5. EMS CABLES MAY BE ROUTED PARALLEL OR PERPENDICULAR TO BAR JOISTS IF SUPPORTED AT LEAST EVERY 36" OR MINIMUM DISTANCE OF BAR JOIST SPACING.

6. CONCEAL SALES AREA EMS CONDUIT UNDER REFRIGERATED CASES, THROUGH TUNNELS, WALLS, PIPE RACKS, AND/OR CHASES, WHERE APPLICABLE.

7. INSTALL CODE APPROVED PENETRATIONS THROUGH FIRE WALLS.

8. PROVIDE COMPLETED REFRIGERATION SENSOR INPUT/OUTPUT REPORTS TO THE EMS SUPPLIER AT THE BEGINNING OF THE REFRIGERATION EQUIPMENT START-UP. PROVIDE ASSISTANCE TO THE EMS SUPPLIER FOR CHECKING SENSOR ACCURACY.

9. BE PRESENT AND AVAILABLE AT REFRIGERATION START-UP TO RESOLVE ISSUES AND PROVIDE ASSISTANCE UNTIL RELEASED BY 365.

10. COMPLETE ALL UNRESOLVED REFRIGERATION WORK, DURING THE REFRIGERATION START-UP, PRIOR TO WORKING ON OTHER EMS INSTALLATION ITEMS.

11. PERFORM ALL CHECKS AND TESTS TO ENSURE A FULLY FUNCTIONAL REFRIGERATION CONTROL SYSTEM.

12. INSTALL DEFROST TERMINATION FOR ALL COIL DEFROST TERMINATION SENSORS PER DETAIL 2 ON SHEET EM101.

13. INSTALL ALL CONDUIT, WIRING AND CONTROL CABLING TIGHT TO BOTTOM OF ALL ELEVATED CASES (CASES ON LEGS) TO CONCEAL FROM SIGHT.

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

365 BY WHOLE FOODS MARKET

Project Manager: JCS
Checked By:
Drawn by: JCS
Document date: 05/21/18
Template date:

Project No.
62911019

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Sheet Title
REFRIGERATION CONTROL PLAN

Sheet No. **EM101**

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365 - CONTROL RESPONSIBILITIES

	Furnished By	Installed By	Wiring By	Final Connections By
RTU'S - MUNTERS				
Supply Air Temp Sensor	365 - via Munters	EMS Contractor	EMS Contractor	EMS Contractor
Space Temp Sensor	365 - via Munters	EMS Contractor	EMS Contractor	EMS Contractor
Space Humidity Sensor	365 - via Munters	EMS Contractor	EMS Contractor	EMS Contractor
Controller	Landlord	Landlord	EMS Contractor	EMS Contractor
Smoke/Emergency Shutdown	Fire Alarm	Fire Alarm	Fire Alarm	Fire Alarm
RTU'S - SALES FLOOR UNITS W/ HOT GAS REHEAT				
Supply Air Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Return Air Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Space Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Space Humidity Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Controller	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Smoke/Emergency Shutdown	Fire Alarm	Fire Alarm	Fire Alarm	Fire Alarm
RTU'S - NON-SALES FLOOR				
Supply Air Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Return Air Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Space Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Space Humidity Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Controller	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Smoke/Emergency Shutdown	Fire Alarm	Fire Alarm	Fire Alarm	Fire Alarm
GAS UNIT HEATERS				
Space Temp Sensor	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
Unit Controls	365 - via Siemens	EMS Contractor	EMS Contractor	EMS Contractor
AIR CURTAIN - CUSTOMER ENTRY				
Thermostat	Mech Contr. - via Manuf.	Mech. Contractor	Mech Contr.	Mech Contr.
Unit Controls	Mech Contr. - via Manuf.	Mech. Contractor	Mech Contr.	Mech Contr.
AIR CURTAIN - RECEIVING				
Unit Controls	Mech Contr. - via Manuf.	Mech. Contractor	Mech Contr.	Mech Contr.
SPLIT SYSTEM				
Thermostat	Mech Contr. - via Manuf.	Mech. Contractor	Mech Contr.	Mech Contr.
Unit Controls	Mech Contr. - via Manuf.	Mech. Contractor	Mech Contr.	Mech Contr.

LEAK ALARM SCHEDULE AND CONTROL SEQUENCE OF OPERATIONS

SYSTEM DESIGNATION	REFRIGERATION CIRC. NUMBER	APPLICATION	REFRIGERANT LEAK ZONE	REFRIGERANT	SAFETY GROUP	SYSTEM HIGH/LOW PROBABILITY	ALARM LEVELS IN PPM			PARASENSE RELAY	MICRO THERMO FUNCTION
							ALERT	ALARM	CRITICAL		
A	-	RACK LEAK DETECTION	ZONE 1	CO2	-	-	1000	2500	5000	1	GLOBAL SIGNAL ONLY
-	AL01	GROCERY / ICE CREAM FREEZER	ZONE 2	CO2	A1	HIGH	1000	2500	5000	2	CRITICAL EEV(S) CLOSE
	AM23	VEG VALLEY	ZONE 3	CO2	A1	HIGH	1000	2500	5000	3	CRITICAL EEV(S) CLOSE
-	AM24	CRISPER	ZONE 4	CO2	A1	HIGH	1000	2500	5000	4	CRITICAL EEV(S) CLOSE
-	AM25	FRUIT & VEGETABLE COOLER	ZONE 5	CO2	A1	HIGH	1000	2500	5000	5	CRITICAL EEV(S) CLOSE
-	AM26	OPEN MEAT KITCHEN	ZONE 6	CO2	A1	HIGH	1000	2500	5000	6	CRITICAL EEV(S) CLOSE
-	AM27	GROCERY COOLER	ZONE 7	CO2	A1	HIGH	1000	2500	5000	7	CRITICAL EEV(S) CLOSE
-	AM28	DAIRY COOLER W/ DOORS	ZONE 8	CO2	A1	HIGH	1000	2500	5000	8	CRITICAL EEV(S) CLOSE
-	AL02-AL06	FROZEN COFFIN 1	ZONE 10	CO2	A1	HIGH	1000	2500	5000	9	GLOBAL SIGNAL ONLY
-	AL07-AL11	FROZEN COFFIN 2	ZONE 10	CO2	A1	HIGH	1000	2500	5000	10	GLOBAL SIGNAL ONLY
-	-	SPARE	ZONE 11	-	-	-	-	-	-	11	-
-	-	SPARE	ZONE 12	-	-	-	-	-	-	12	-

REFRIGERANT LEAK CONTROL SEQUENCE OF OPERATION:

THE AIR-SAMPLING SENSOR WILL TAKE AN AIR-SAMPLE FROM THE APPLICATION SITES, WHERE IT IS ANALYZED AT LEAK DETECTION MONITORING STATION. THE SAMPLING MODULES, WHICH ARE LOCATED IN AT LEAK DETECTION MONITORING STATION, UPON REGISTERING A CONCENTRATION THAT EXCEEDS A PRESET LEVEL (ALERT, ALARM OR CRITICAL) WILL PREFORM A FUNCTION AS BELOW:

ALERT LEVEL - PARASENSE MONITORING STATION.

GLOBAL SIGNAL
ALARM LEVEL - THE MONITORING STATION WILL SEND OUT A SIGNAL VIA RELAY TO MICRO THERMO INDICATING AN ALARM LEVEL OF REFRIGERANT LEAK.
CRITICAL LEVEL - THE MONITORING STATION WILL SEND OUT A SIGNAL VIA RELAY TO MICRO THERMO INDICATING A CRITICAL LEVEL OF REFRIGERANT LEAK.

MICRO THERMO CONTROL
CRITICAL LEVEL - WHERE THE MAXIMUM ALLOWABLE REFRIGERANT AMOUNT PER CODE FOR ANY PARTICULAR VOLUME OF REFRIGERATED ROOM SPACE HAS EXCEEDED THE CRITICAL LEVEL THE FOLLOWING SEQUENCE SHALL COMMENCE.

- A BEACON/SOUNDER ALARM LOCATED AT THE ENTRANCE TO THE THE REFRIGERATED ROOM SHALL ALARM INDICATING AN UNSAFE ENVIROMENT IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL AND FIRE CODES. ADDITIONAL BEACON/SOUNDER LOCATED ADJACENT TO MONITORING STATION WILL ALARM.
- THE MONITORING STATION WILL SEND OUT A SIGNAL VIA RELAY TO MICRO THERMO INDICATING A CRITICAL LEVEL OF REFRIGERANT LEAK.
- THE EEV AT THE ROOM THAT HAS DETECTED THE REFRIGERANT LEAK WILL AUTOMATICALLY CLOSE. THIS WILL ISOLATE THE CIRCUIT IN ALARM. REFRIGERANT FLOW IN THE ROOM.

HORN MUST BE AT LEAST 15 DBA (SPL) ABOVE OPERATION AMBIENT NOISE.

COORDINATE PROGRAMMING OF LEAK DETECTION MONITORING STATION FOR RELAY TO OUTPUT 24V DC UPON CRITICIAL ALARM TO OPERATE BEACON/SOUNDER AND CONNECTION TO MICRO THERMO INPUT BOARD VIA ADDITIONAL RELAY. IS TO BE SET IN THE POSITION FOR SHUTTING DOWN POWER TO THE EEV AND ACTIVATING THE REFRIGERANT LEAK ALARM.
CIRCUIT SHUTDOWN OUTPUT CONTROLS TO BE PROGRAMMED IN MICRO THERMO PANEL WITH THE ASSOCIATED LEAK DETECTION SENSOR INPUT.

REFER TO INPUT/OUTPUT SCHEDULES FOR POINT LOCATIONS.

LEGEND

PPM: PARTS PER MILLION   SPL: SOUND PRESSURE LEVEL

POWER MONITORING SCHEDULE

CONTROLLER TERMINAL	ART / SART LOCATION	LOAD NAME	DESCRIPTION	BREAKER AMPERAGE	VOLTAGE	PHASE	WIRE SIZE AND QUANTITY PER PHASE	NOTES
SFP	MDP	WHOLE HOUSE	BUILDING POWER	2000A	480V	3	5 SETS OF 400 KCMIL	-
1	DPH	RACK "A"	REFRIGERATION POWER	600A	480V	3	4 SETS OF 350 KCMIL	-
2	SPARE	-	-	-	-	-	-	-
3	MDP	PNLBD M	HVAC POWER	400A	480V	3	2 SETS OF #3/0	-
4	M	RTU-1	MAIN STORE HVAC UNIT	110A	480V	3	#6	-
5	M	RTU-2	MAIN STORE HVAC UNIT	110A	480V	3	#6	-
6	TRANSFORMER TF1	PNLBD LF1	FRIENDS SPACE #1	225A	208V	3	2 SETS OF #3/0	-
7	TRANSFORMER TF2	PNLBD LP2	FRIENDS SPACE #2	225A	208V	3	4 SETS OF 300 KCMIL	-
8	SPARE	-	-	-	-	-	-	-
9	SPARE	-	-	-	-	-	-	-
10	SPARE	-	-	-	-	-	-	-
11	SPARE	-	-	-	-	-	-	-
12	SPARE	-	-	-	-	-	-	-
1	POWERWALL	PNLBD LP1	GENERAL LIGHTING	150A	208V	3	#1/0	-
2	SPARE	-	-	-	-	-	-	-
3	SPARE	-	-	-	-	-	-	-
4	SPARE	-	-	-	-	-	-	-

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

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Fax: 913-262-9044

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NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

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Project Manager: JCS
Checked By:
Drawn by: JCS
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Template date:
Project No. 62911019
Professional Seal

03/06/2018

Sheet Title
ENERGY MANAGEMENT SCHEDULES

Sheet No. EM200

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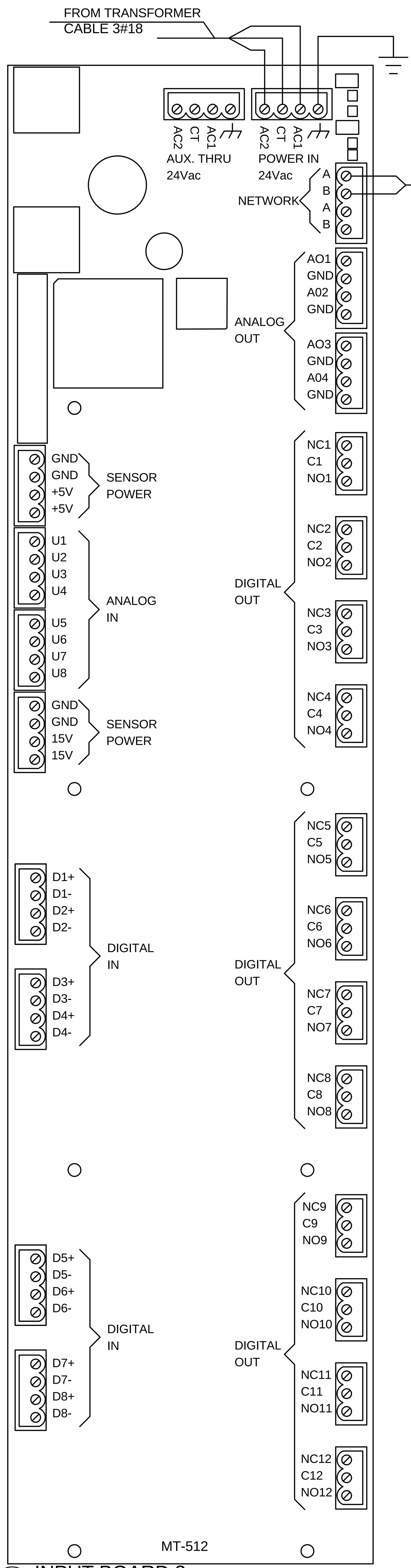
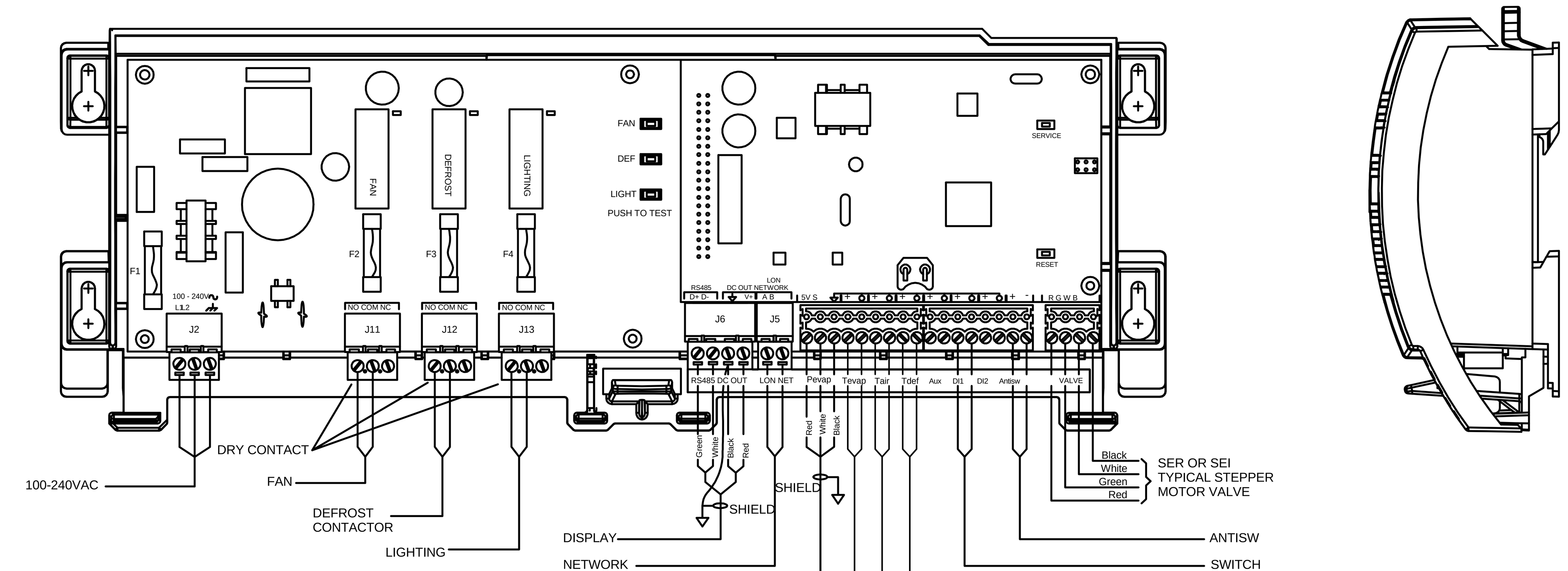


2 INPUT BOARD 3

NTS



IN / OUT DESCRIPTION

POWER: BETWEEN 100V AND 240V, FIELD INSTALLED BY ELECTRIC CONTRACTOR.

FAN: MAX 4A WHEN DRIVEN DIRECTLY BY THE CONTROLLER - NEED AN EXTERNAL INTERFACE RELAY/CONTACTOR WHEN LOAD > 4A. (NEED EXTERNAL POWER UP TO 240V)

DEFROST: ALWAYS USE AN EXTERNAL INTERFACE RELAY OR CONTACTOR FOR ELECTRIC DEFROST. (NEED EXTERNAL POWER UP TO 240V)

LIGHTING: MAX 2.4A AT 240V OR 3.6A AT 120V WHEN DRIVEN DIRECTLY BY THE CONTROLLER - USE AN EXTERNAL INTERFACE RELAY/CONTACTOR WHEN LOAD IS OVER. (NEED EXTERNAL POWER UP TO 240V)

RS485/DC OUT: COMMUNICATION FOR REMOTE DISPLAY OPTION

NETWORK: ECHELON TYPE 2 #16, STRANDED, 7/26 UTP (UNSHIELDED TWISTED PAIR) BELDEN 8471 TYPE OR EQUIVALENT, FIELD INSTALLED BY THE EMS CONTRACTOR

PEVAP: PRESSURE TRANSDUCER USED WITH T° EVAPORATOR TO CALCULATE SUPERHEAT (SEE NOTE A)

TEVAP: 10K T° SENSOR P/N #023-0076 USED FOR SUPER HEAT (BLUE)

TAIR: 10K T° SENSOR P/N #023-0073 USED FOR ALARM MONITORING (GREEN)

TDEF: 10K T° SENSOR P/N # 023-0072 USED FOR END DEFROST (ORANGE)

AUX: AUX T° OR P SENSOR FOR AUXILIARY TEMPERATURE OR PRESSURE MONITORING.

DI1/DI2: CONFIURABLE SWITCHES FOR FOLLOWING APPLICATIONS: CLEAN SWITCH, DOOR AJAR & DUAL TEMPERATURE CASE TYPE OF SWITCH: SOFTWARE, REMOTE OR LOCAL.

Antisw: Pulse output 5VDC/15mA max to control external solid state relay for Anti sweat heater (SSR supplied by case manufacturer)

VALVE: Stepper motor EEV (see note B)

NOTE A

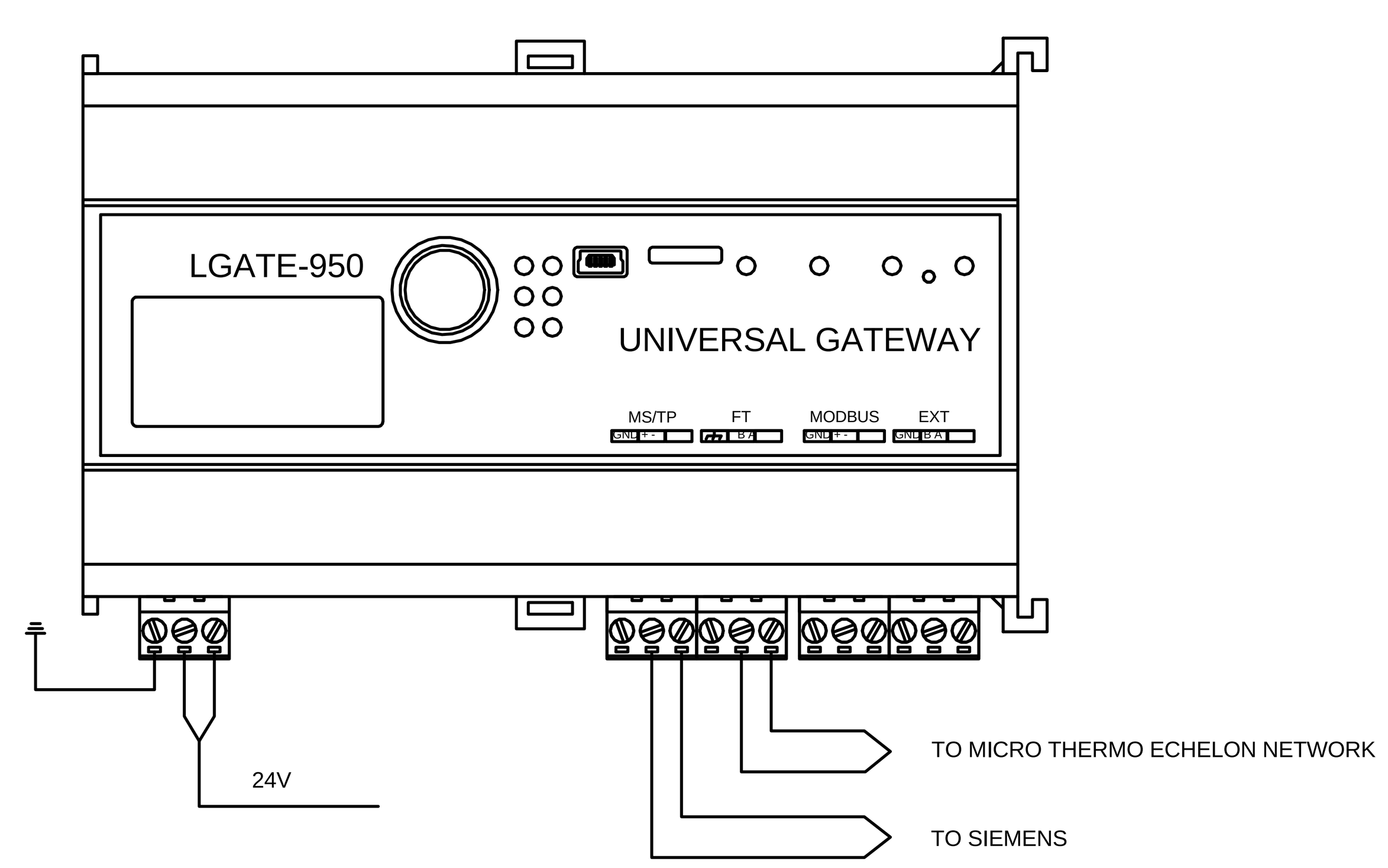
PRESSURE TRANSDUCER ORDERING INFORMATION				
PSIS	WITHOUT CABLE	WITH 19' CABLE	CONNECTION	APPLICATION
200	23-0397	952-0012	1/4" SAE FLAIR FEMELLE WITH DEFLATOR	STANDARD REFRIGERATION
652	23-0370	952-0008	1/4" SAE FLAIR FEMELLE WITH DEFLATOR	CO2
200	23-0148	952-0004	1/8" NPT MALE	STANDARD REFRIGERATION
652	23-0441	952-0018	1/8" NPT MALE	CO2
SENSOR WITH 50' CABLE ARE AVAILABLE ON SPECIAL ORDER.				

NOTE B

ELECTRIC EXPANSION VALVES SUPPORTED	
SPORLAN:	SEI 0.5, 1, 2, 3.5, 6, 8.5, 11, 30 SER 1.5, 6, 11, 20, SER-AA, SER-A, SER-B, SER-C, SER-D SERI-J,SERI-G,SERI-K
EMERSON:	EX4, EX5, EX6
DANFOSS:	ETS 50, 100, 250, 400

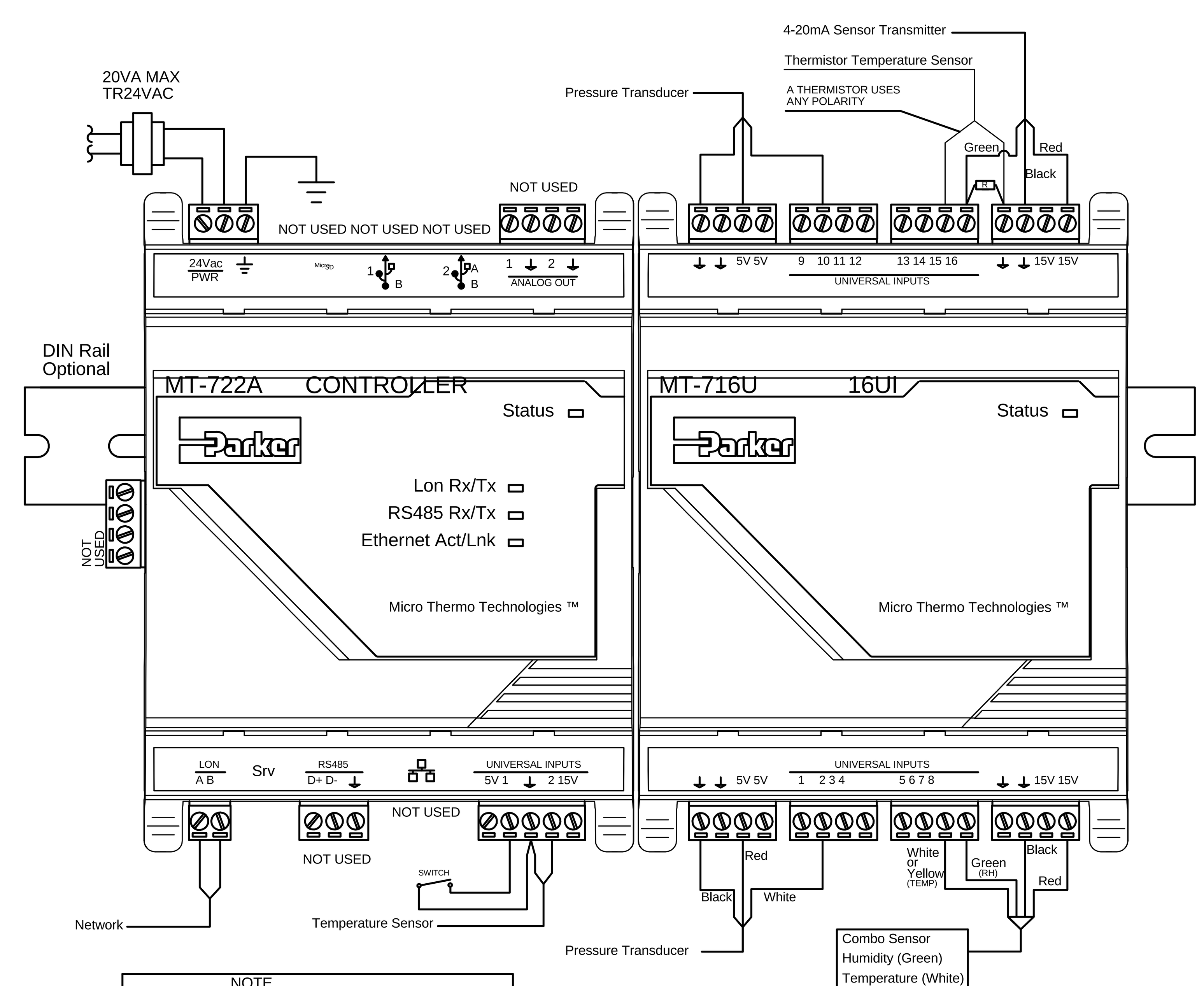
3 CASE CONTROLLER DIAGRAM

NTS



4 GATEWAY LGATE-950 WIRING

NTS



NOTE

POWER: 24V AC

NETWORK: Echelon type 2#16, Stranded, 7/26 UTP (Unshielded Twisted Pair)
Belden 8471 type or Equivalent, field installed by the EMS Contractor

R: Typical Resistor used is 255 ohms ($\frac{1}{4}$ W)

1 INPUT BOARD 2

NTS

3/6/2018 6:41:59 PM

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET

DECATUR, GA

1555 CHURCH STREET, DECATUR, GA 30030

Project Manager:
JCS

Checked By:

Drawn by:
JCS

Document date:

Template date:

Project No.
62911019

Professional Seal

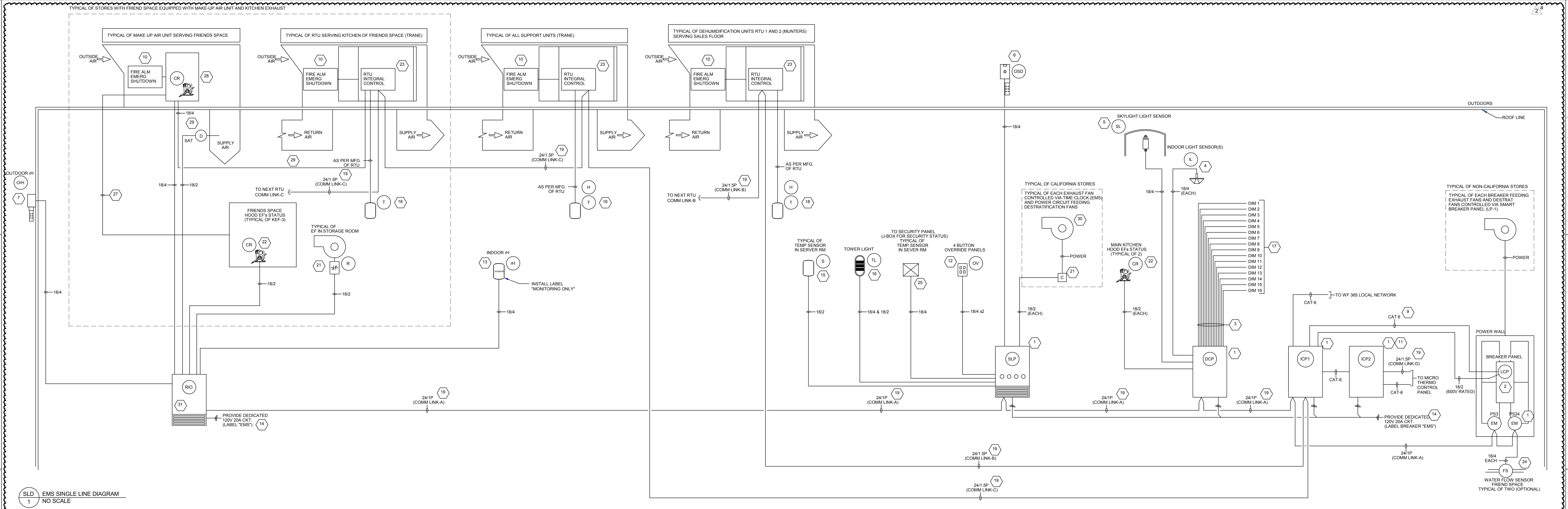
03/06/2018

Sheet Title

REFRIGERATION EMS CONTROL DETAILS

Sheet No.

EM201



SLD 1 EMS SINGLE LINE DIAGRAM
NO SCALE

EMS DEVICES SCHEDULE AND CONSTRUCTION INSTALLATION RESPONSIBILITIES MATRIX

SYMBOL	DEVICE	QUANTITY SUPPLIED BY SIEMENS	DEVICE CABLE TYPE	INSTALLATION	BOX/RACEWAYS/ PLUMBING	CONTROL CABLE TERMINATION	NOTES
CR	CURRENT RELAY SWITCH	2 KITCHEN EXHAUST HOOD LINE-UP AND 2 OPTIONAL (FRIENDS SPACE)	18/2	E.C. / CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
D	DUCT TEMP SENSOR	1 OPTIONAL (FRIENDS SPACE - MAU)	18/2	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
DCP	DIMMING CTRL PANEL	1	PER CONNECTED DEVICES	FACTORY INSTALLED ON POWER WALL	E.C.	E.C. / CTRL CONTRACTOR	
EM	ENERGY METER	2 (1 PS24, 1 PS3)	24/1P	FACTORY INSTALLED ON POWER WALL	E.C.	MFG POWER WALL	
FS	WATER FLOW SENSOR (OPTIONAL)	2 (WATER TO FRIEND SPACES)	18/4	INSTALLATION MECHANICAL CONTRACTOR	E.C.	CTRL CONTRACTOR	
H	HUMIDITY SENS OR HUMIDISTAT	AS INDICATED ON MECHANICAL SCHEDULE - BY MFG. OF HVAC	AS REQUIRED BY MFG. OF HVAC	M.C.	E.C.	M.C.	5
ICP	INTEGRATION CTRL PANEL	2	VARIES PER CONNECTED DEVICE	FACTORY INSTALLED ON POWER WALL	E.C.	E.C. / CTRL CONTRACTOR	
IL	INDOOR LIGHT SENSOR	1 (FOR EACH SECTION OF THE STORE WHERE DAYLIGHT HARVESTING IS REQUIRED - REFER TO "EM100" DRAWING FOR QUANTITY AND LOCATION)	18/4	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
LCP	LIGHTING CTRL PANEL	SMART BREAKER PANEL IN POWER WALL	CAT-6 & 18/2	MFG OF POWER WALL	E.C.	E.C. / CTRL CONTRACTOR	3
ORH	OUTSIDE RELATIVE HUMIDITY SENSOR	1	18/4	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
OSD	OUTSIDE SENSING DEVICE	1	18/4	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	2
OV	4 BUTTONS OVERRIDE PANEL	1 (LEADER'S OFICE)	18/4 X2	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
R	24VAC CTRL RELAY	1 CASE LIGHTS AND 2 OPTIONAL (FRIENDS SPACE MAU AND EF)	18/2	E.C.	E.C.	CTRL CONTRACTOR	
RIO	REMOTE IO PANEL	1 FRONT OF THE STORE (FRIENDS SPACE)	18/4	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
RH	INDOOR RELATIVE HUMIDITY SENSOR	1 CENTRALLY LOCATED IN SALES FLOOR	18/4	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	1
S	ZONE TEMP SENSOR	1 IN SERVER ROOM	18/2	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	1
SL	SKYLIGHT SENSOR	1 (TYPICAL OF STORES WITH SKYLIGHTS)	18/4	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	
SLP	SCREAM LOGIC PANEL	1	VARIES PER CONNECTED DEVICE	FACTORY INSTALLED ON POWER WALL	E.C.	CTRL CONTRACTOR	
T	TEMP SENSOR OR THERMOSTAT	1 FOR EACH RTU	AS REQUIRED BY MFG. OF HVAC	M.C.	E.C.	M.C.	5
TL	TOWER LIGHT	1	18/4 & 18/2	CTRL CONTRACTOR	E.C.	CTRL CONTRACTOR	

NOTES - EMS DEVICES SCHEDULE

1. EC SHALL INSTALL ELECTRICAL BOXES AND 1/2 EMT STUB-UPS WITH PULL STRING TO ABOVE CEILING GRID FOR INSTALLATION OF WALL MOUNTED EMS CONTROL DEVICES.
2. MOUNT SENSOR 5' ABOVE ROOF LEVEL ON A 1/2 RIGID CONDUIT OR EMT CONDUIT WITH RAIN TIGHT FITTINGS.
3. LIGHTING CONTROL CONTACTORS ARE FACTORY INSTALLED IN THE CD CONTROLS POWER WALL.
4. NOTE REMOVED.
5. SENSOR SUPPLIED BY OTHERS (UNIT MANUFACTURER OR MECHAICAL CONTRACTOR). SENSORS ARE NOT PART OF THE SIEMENS EMS CONTROL PACKAGE.

EMS EQUIPMENT DELIVERY NOTES

1. EQUIPMENT DELIVERY
   1.1 CD CONTROLS SHALL BE RESPONSIBLE FOR CONTACTING SIEMENS TO SCHEDULE EQUIPMENT DELIVERY.
   1.2 A VALID EQUIPMENT DELIVERY REQUEST SHALL CONSIST OF THE FOLLOWING.
      I - NAME AND PHONE NUMBER OF PERSON RESPONSIBLE FOR RECEIVING THE EMS EQUIPMENT AND PROJECT NUMBER.
      II - A VALID SHIPPING ADDRESS (VERIFIABLE BY THE DELIVERY AGENT).
   1.3 UPON RECEIVING A VALID EQUIPMENT DELIVERY REQUEST, SIEMENS WILL PROCEED TO SHIP EQUIPMENT AS FOLLOW:
      I - FIRST SHIPMENT: DIRECT TO CD CONTROLS, SHIPPED AT THEIR REQUEST WITHIN 5 BUSINESS DAYS (GIVEN STOCK IS AVAILABLE). THIS SHIPMENT INCLUDES CONTROL PANELS (SLP, ICP-1, ICP-2 AND DCP)
      II - SECOND SHIPMENT: SHIPPED TO THE SITE WITHIN 5 BUSINESS DAYS OF REQUEST (THE SITE MUST BE READY TO RECEIVE EQUIPMENT). THIS SHIPMENT INCLUDES ALL OTHER EMS COMPONENTS ON THE BILL OF MATERIALS.
2. EQUIPMENT INSTALLATION
   2.1 HILLPHOENIX SHALL BE RESPONSIBLE FOR DESIGNATING AN INSTALLATION CONTRACTOR FOR THE PROJECT AND COORDINATING THE INSTALLATION OF THE EMS.
   2.2 THE INSTALLATION CONTRACTORS MUST BE RESPONSIBLE FOR THE INSTALLATION OF THE EMS IN FULL COMPLIANCE WITH LOCAL AND NATIONAL CODES AS WELL AS GUIDELINES PROVIDED BY SIEMENS ON EMS DRAWINGS.
   2.3 THE INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING SIEMENS TO SCHEDULE COMMISSIONING OF THE EMS NO LESS THAN TWO WEEKS PRIOR TO THE STARTUP OF THIS SYSTEM.
3. CONTACT INFORMATION
   3.1 PLEASE DIRECT ALL SHIPPING REQUEST TO THE SIEMENS PROJECT MANAGEMENT DEPARTMENT @ (512) 306-9400.

CABLE SCHEDULE

CABLE	SIZE	TYPE	MANUFACTURER / PART#
18 /2	18AWG / 2 CONDUCTORS	SHIELDED, STRANDED, PLENUM	BELDEN / 6300FE NON-PAIRED
			COMTRAN / 3644
			TAPPAN / 1880AB2M-CMP
18 /4	18AWG / 4CONDUCTORS	SHIELDED, STRANDED, PLENUM	BELDEN / 6302FE NON-PAIRED
			LAKE CABLE / P1810C-WIN
			TAPPAN / 1880AB4M-CMP
18 /10	18AWG / 10 CONDUCTORS	UNSHIELDED, STRANDED, PLENUM	BELDEN / 6308UE NON-PAIRED
			LAKE CABLE / P1810C-WIN
			TAPPAN / 1880AB10-CMP
24 /1P	24AWG / 1-TWISTED PAIR	SHIELDED, STRANDED, PLENUM, TWISTED PAIR, WHITE	BELDEN / 82841 PAIRED
			LAKE CABLE / PF242CS
24 /1.5P	24AWG / 1.5-TWISTED PAIR	SHIELDED, STRANDED, PLENUM, TWISTED PAIR, ORANGE	WINDY CITY WIRE / 04210029-S
CAT 6	23AWG / 4-UTP	PLENUM RATED, SOLID CORE, TWISTED PAIR	BELDEN / 2413
			OR SIMILAR

GENERAL NOTES - CONSTRUCTION

1. LIFE SAFETY AND FIRE ALARM SYSTEMS:
1.1 LIFE SAFETY AND FIRE ALARM SYSTEMS ARE NOT PART OF THE EMS AND SHALL BE FURNISHED AND INSTALLED AS SPECIFIED ON ELECTRICAL AND MECHANICAL CONSTRUCTION DRAWINGS.
1.2 MECHANICAL EQUIPMENT SHUTDOWN SHALL BE WIRED AS TO NOT AFFECT THE OPERATION OF THE EMS.
2. SIEMENS IS NOT RESPONSIBLE FOR SUPPLYING, INSTALLING, STARTING OR COMMISSIONING DEVICES THAT HAVE NOT BEEN LISTED ON THE INSTALLATION RESPONSIBILITIES SCHEDULE CONTAINED ON THIS DOCUMENT.
3. CONTROL CONTRACTORS ARE RESPONSIBLE FOR PROVIDING:
3.1 A FULLY OPERATIONAL SYSTEM IN FULL COMPLIANCE WITH NATIONAL AND LOCAL ELECTRICAL AND BUILDING CODES.
3.2 CONSULTING SIEMENS ENGINEERING DEPARTMENT ABOUT POTENTIAL DEVIATIONS FROM ORIGINAL CONTROL DRAWING OR THE USE OF ALTERNATIVES PARTS, MATERIALS OR SYSTEM COMPONENTS.
3.3 SELECTION AND INSTALLATION OF CONTROL AND COMMUNICATION CABLES IN FULL COMPLIANCE WITH SPECIFICATIONS PROVIDED BY SIEMENS ON THE "CABLE SCHEDULE" SECTION OF THIS DOCUMENT.

THE CONSTRUCTION DOCUMENTATION CONTAINED ON THIS SHEET WAS NOT PREPARED BY ENERGY SQUARED, LLC AND IS INCLUDED WITHIN THIS SET FOR REFERENCE ONLY. ENERGY SQUARED, LLC DID REVIEW THIS CONSTRUCTION DOCUMENTATION ON THIS SHEET FOR GENERAL COMPLIANCE WITH DESIGN INTENT. SUPPLIER IS RESPONSIBLE THAT ALL FURNISHED EQUIPMENT ON THIS SHEET COMPLIES WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS, AND CODES OR REGULATIONS.

KEYED NOTES

1	SLP, DCP, ICP1, ICP2 & EM (DENT POWERSCOUT) FACTORY INSTALLED IN CD CONTROLS POWER WALL.
2	LIGHTING CONTROLS PROVIDED VIA CONTACTORS BUILT IN POWER WALL.
3	DIMMING CONTROL WIRING AS SPECIFIED BY THE MANUFACTURER OF THE LIGHTING FIXTURES. DAISY CHAIN CONTROL SIGNAL TO ALL LIGHTING FIXTURES MEMBERS OF THE SAME DIMMING CONTROL GROUP.
4	INDOOR LIGHT SENSOR INSTALLED IN PRIMARY DAYLIGHT ZONE. MOUNT SENSOR NO LESS THAN 2 INCHES BELOW THE LEVEL OF THE LIGHTING FIXTURES. REFER TO "EM100" DRAWING FOR LOCATION.
5	SKYLIGHT SENSOR. TYPICAL OF ONE SENSOR PER STORE. MOUNT SENSOR INSIDE SKYLIGHT WELL. REFER TO "EM100" DRAWING FOR LOCATION.
6	MOUNT OUTSIDE SENSING DEVICE FIVE FEET ABOVE ROOF LEVEL, AT RTU-2, WITH THE OPTICAL SENSOR FACING NORTH. AVOID MOUNTING SENSOR NEXT TO BUILDING STRUCTURES OR EQUIPMENT THAT MAY AFFECT THE OPERATION OF THE OPTICAL SENSOR (OBSTRUCTION TO DAYLIGHT) OR THE OUTSIDE AIR TEMPERATURE SENSOR (ARTIFICIAL SOURCES OF HEAT).
7	MOUNT OUTSIDE HUMIDITY STATION AT RTU-2, NO LESS THAN 10 FEET ABOVE GRADE LEVEL. AVOID MOUNTING SENSOR NEXT TO VENTILATION LOUVERS, HVAC OR ELECTRICAL EQUIPMENT (ARTIFICIAL SOURCES OF HEAT AND MOISTURE). PROVIDE WATER TIGHT LECTRIC FITTINGS AND SEAL OPENINGS ON NEMA 4 ENCLOSURE TO AVOID WATER DAMAGE TO ELECTRONICS.
8	NOTE REMOVED.
9	ETHERNET CABLE TO SMART BREAKER CONTROLLER FOR INTEGRATION VIA BACnet IP PROTOCOL. INSULATION OF ETHERNET AND CONTROL CABLES MUST BE PROPERLY RATED FOR MAXIMUM PHASE TO PHASE VOLTAGE IN POWER WALL (600V RECOMMENDED).
10	FIRE ALARM OR SMOKE DETECTOR SHUTDOWN INTERLOCK - BY OTHERS.
11	INTEGRATION CONTROL PANEL ICP-2. INTEGRATION WITH THE REFRIGERATION SYSTEM (MICRO THERMO) VIA BACnet MS/TP PROTOCOL.
12	FOUR BUTTONS REMOTE OVERRIDE PANEL. REFER TO DRAWING "EM100" FOR LOCATION.
13	INDOOR HUMIDITY STATION CENTRALLY LOCATED IN THE SALES FLOOR. AVOID INSTALLATION OF THE HUMIDITY STATION NEXT TO ARTIFICIAL SOURCES OF HEAT OR MOISTURE. INSTALL LABEL ON THE FACE OF THE SENSOR INDICATING "FOR MONITORING ONLY".
14	EMS PANELS MUST BE FED FROM A DEDICATED 120VAC @ 20AMPS POWER CIRCUIT.
15	MOUNT SENSOR IN SERVER ROOM NEXT TO WALL-MOUNTED THERMOSTAT FOR CONTROL OF HVAC.
16	MOUNT TOWER LIGHT RIGHT BELOW CEILING LINE. REFER TO CONSTRUCTION DRAWING EM100 FOR LOCATION.
17	0-10VDC CONTROL SIGNAL TO DIMMING LIGHTING FIXTURES. REFER TO "LIGHTING CONTROL SCHEDULE" ON ELECTRICAL DRAWINGS "E110" FOR ADDITIONAL INFORMATION ON "DIMMING CONTROL SCHEMES" CAUTION!!! MAXIMUM LOAD PER DIMMING CHANNEL MUST NOT EXCEED 80mA.
18	FIELD INSTALLED TEMPERATURE AND HUMIDITY SENSORS SUPPLIED BY THE MANUFACTURER OF THE HVAC. REFER TO "HVAC SCHEDULE" AND "MECHANICAL FLOOR PLANS" IN CONSTRUCTION DRAWINGS FOR NUMBER AND LOCATION. REFER TO MANUFACTURER'S DOCUMENTATION FOR CONTROL WIRING REQUIREMENTS.
19	COMMUNICATION TRUNKS: A- COMMUNICATION LOOP BETWEEN ICP-1, SLP, AND RIO PANEL. B- COMMUNICATION LOOP BETWEEN ICP-1, RTU-1 AND RTU-2 (SALES UNITS - MUNTERS). C- COMMUNICATION LOOP BETWEEN ICP-1 AND TRANE BACnet RTUS. D- COMMUNICATION LOOP BETWEEN ICP-2 AND REFRIGERATION CONTROL PANEL (MICRO THERMO).
20	NOTE REMOVED.
21	MOTOR STARTER OR CONTACTOR SUPPLIED AND INSTALLED BY OTHERS. LOW VOLTAGE CONTROL RELAY PROVIDED BY SIEMENS.
22	INSTALL CURRENT RELAY (CR) ON POWER FEED TO EXHAUST FAN MOTORS ON KITCHEN EXHAUST HOOD LINE-UP.
23	EMS SUPERVISORY CONTROL FOR MUNTERS DEHUMIDIFICATION AND TRANE RTU's PROVIDED VIA BACnet MS/TP INTEGRATION. BACnet COMMUNICATION MODULES ON RTUs MUST BE INSTALLED AND CONFIGURED BY OTHERS (MANUFACTURER OR CERTIFIED CONTRACTOR) DURING THE START-UP OF THE HVAC EQUIPMENT. THE BACnet MAC ADDRESS OF THE RTU MUST BE SET TO MATCH THE NUMBER OF THE RTU AS INDICATED ON THE MECHANICAL SCHEDULE (e.g. RTU-1 -> MAC ADD = 1). SET COMMUNICATION BAUD RATE TO 19.2K.
24	WATER FLOW SENSOR, TYPICAL OF TWO. WATER SUPPLY TO FRIENDS SPACES. REFER TO MECHANICAL DRAWINGS FOR LOCATION.
25	JUNCTION BOX PROVIDED BY SIEMENS. TERMINATIONS ON SECURITY PANEL BY ALARM CONTRACTOR.
26	NOTE REMOVED.
27	HARD WIRED INTERLOCK BETWEEN THE KITCHEN MAKE UP "MAU" AND THE KITCHEN EXHAUST FAN "KEF" - PROVIDED BY OTHERS. THIS INTERLOCK MUST GUARANTEE THE ACTIVATION AND DE-ACTIVATION OF THE MAU SIMULTANEOUSLY WITH THE KITCHEN EXHAUST FAN.
28	SELF-CONTAINED UNIT. SENSORS PACKAGE, CONTROLS AND INTERLOCKS WITH KITCHEN EXHAUST BY OTHERS.
29	ONLY APPLICABLE TO RTU SERVING KITCHEN AREA OF THE FRIEND'S SPACE. AN INTERLOCK BETWEEN THE RTU AND THE MAU SHALL PREVENT THE MAU FROM HEATING WHEN THE RTU IS ENGAGED IN MECHANICAL COOLING.
30	REFER TO "EXHAUST FAN SCHEDULE" ON MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS.
31	MOUNT RIO PANEL AT THE FRONT OF THE STORE, PROVIDE DEDICATED POWER CIRCUIT 120V @ 20A. LABEL CIRCUIT "EMS".

5/18/2018 10:46:35 AM

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

Project Manager: JCS
Checked By:
Drawn by: JCS
Document date: 05/21/18
Template date:

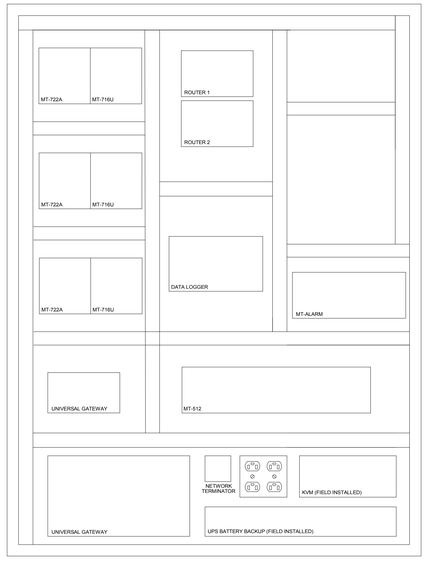
Project No. 62911019

Professional Seal

Sheet Title
EMS HVAC & LIGHTING ONE-LINE DIAGRAM

Sheet No. EM300

MICRO THERMO CONTROL PANEL (BACKBONE PANEL)
SUPPLIED BY HILL PHOENIX, INSTALLED BY REFRIGERATION CONTRACTOR,
WIRED BY ELECTRICAL CONTRACTOR.
48" x 36" x 8"



MT512	U1	SPARE
	U2	SPARE
	U3	SPARE
	U4	SPARE
	U5	SPARE
	U6	SPARE
	U7	SPARE
	U8	LEAK DETECTION FREEZER
	D1	LEAK DETECTION VEG VALLEY
	D2	LEAK DETECTION CRISPER
	D3	LEAK DETECTION FRUIT & VEGETABLE COOLER
	D4	LEAK DETECTION MEAT KITCHEN
	D5	LEAK DETECTION GROCERY COOLER
	D5	LEAK DETECTION DAIRY COOLER W/ DOORS
	D7	LEAK DETECTION GLOBAL ALARM LEVEL
	D8	LEAK DETECTION GLOBAL CRITICAL LEVEL
	A01	SPARE
	A02	SPARE
	A03	SPARE
	A04	SPARE
	D01	SC01 CASE LIGHTS
	D02	SC02 CASE LIGHTS
	D03	SC03 CASE LIGHTS
	D04	SC04 CASE LIGHTS
	D05	SPARE
	D06	SC06 CASE LIGHTS
	D07	SC07 CASE LIGHTS
	D08	SPARE
	D09	SPARE
	D10	SPARE
	D11	SPARE
	D12	GAS COOLER MANUAL PRE-COOL

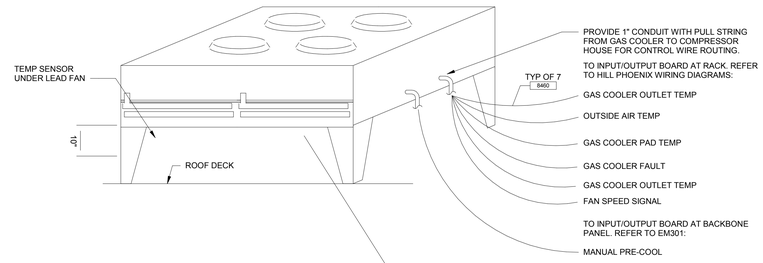
2

MT722	U1	SC01a DUAL TEMP SENSOR
	U2	SC01b DUAL TEMP SENSOR
MT716	U1	SC01c DUAL TEMP SENSOR
	U2	SC01d DUAL TEMP SENSOR
	U3	SC01a DUAL TEMP SWITCH
	U4	SC01b DUAL TEMP SWITCH
	U5	SC01c DUAL TEMP SWITCH
	U6	SC01d DUAL TEMP SWITCH
	U7	SC02a DUAL TEMP SENSOR
	U8	SC02b DUAL TEMP SENSOR
	U9	SC02c DUAL TEMP SENSOR
	U10	SC02d DUAL TEMP SENSOR
	U11	SC02a DUAL TEMP SWITCH
	U12	SC02b DUAL TEMP SWITCH
	U13	SC02c DUAL TEMP SWITCH
	U14	SC02d DUAL TEMP SWITCH
	U15	SPARE
	U16	SPARE

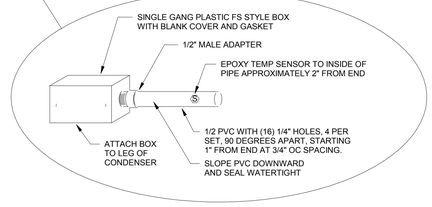
MT722	U1	SC03a DUAL TEMP SENSOR
	U2	SC03b DUAL TEMP SENSOR
MT716	U1	SC03c DUAL TEMP SENSOR
	U2	SC03d DUAL TEMP SENSOR
	U3	SC03a DUAL TEMP SWITCH
	U4	SC03b DUAL TEMP SWITCH
	U5	SC03c DUAL TEMP SWITCH
	U6	SC03d DUAL TEMP SWITCH
	U7	SC04a DUAL TEMP SENSOR
	U8	SC04b DUAL TEMP SENSOR
	U9	SC04c DUAL TEMP SENSOR
	U10	SC04d DUAL TEMP SENSOR
	U11	SC04a DUAL TEMP SWITCH
	U12	SC04b DUAL TEMP SWITCH
	U13	SC04c DUAL TEMP SWITCH
	U14	SC04d DUAL TEMP SWITCH
	U15	SPARE
	U16	SPARE

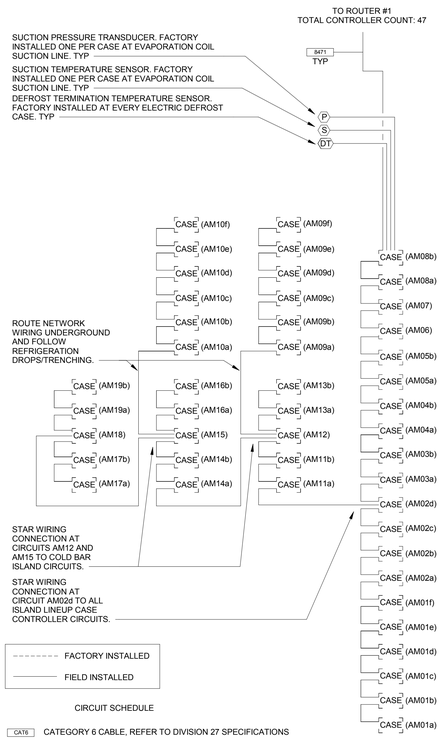
2

MT722	U1	SC06 OLIVE BAR TEMP SENSOR
	U2	SC07 WHOLE BODY CASE TEMP SENSOR
MT716	U1	SPARE
	U2	SPARE
	U3	SPARE
	U4	SPARE
	U5	SPARE
	U6	SPARE
	U7	SPACE TEMPERATURE
	U8	SPACE HUMIDITY
	U9	FUTURE INPUT FROM PARASENSE
	U10	FUTURE INPUT FROM PARASENSE
	U11	FUTURE INPUT FROM PARASENSE
	U12	FUTURE INPUT FROM PARASENSE
	U13	FUTURE INPUT FROM PARASENSE
	U14	FUTURE INPUT FROM PARASENSE
	U15	FUTURE INPUT FROM PARASENSE
	U16	FUTURE INPUT FROM PARASENSE



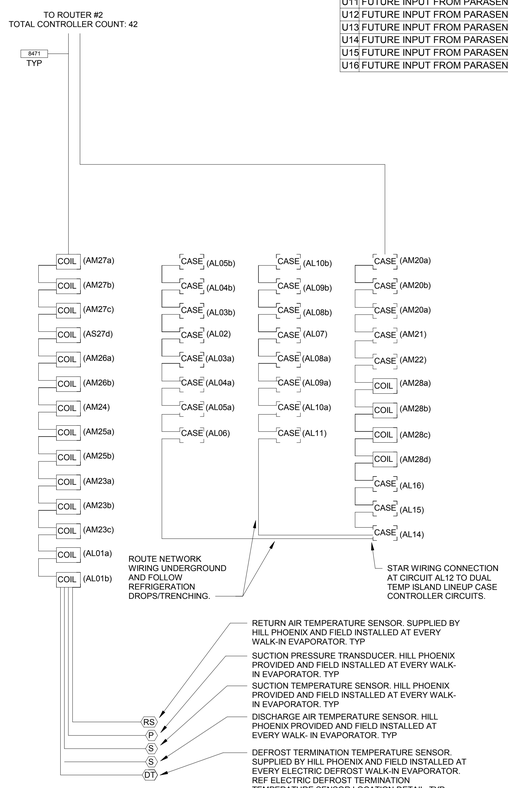
ROOF MOUNTED GAS COOLER





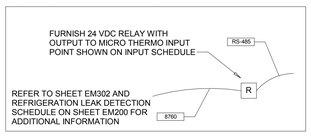
CIRCUIT SCHEDULE

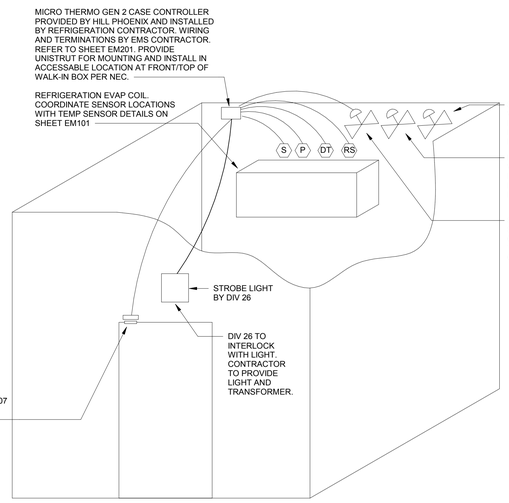
CAT6	CATEGORY 6 CABLE, REFER TO DIVISION 27 SPECIFICATIONS
ESR	BELDEN #27082AS - 4C 14AWG CABLE
RS-485	BELDEN #8761 - 2C 22AWG SHIELDED CABLE
8471	BELDEN #8471 - 2C 16AWG UNSHIELDED CABLE



DETAIL ARE DIAGRAMMATIC ONLY REFER TO MANUFACTURER'S RECOMMENDATIONS AND REFRIGERATION CONTRACTORS FIELD INSTALLATION FOR EXACT LOCATION ON ENERGY MANAGEMENT EQUIPMENT.

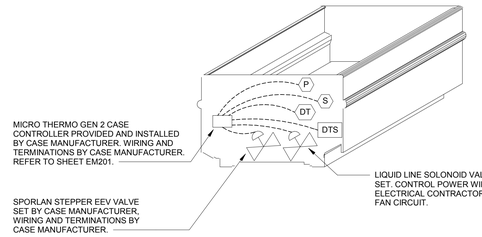
LEAK DETECTION SHUT-DOWN DIAGRAM





REFER TO SHEET EM101 FOR EXACT QUANTITIES AND LOCATIONS OF SENSORS AND VALVES.

COOLER/FREEZER BOX



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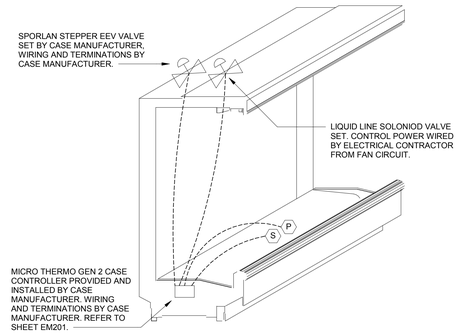

REFER TO SHEET EM101 FOR EXACT QUANTITIES AND LOCATIONS OF SENSORS AND VALVES.

MEDIUM TEMP CASE

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Architect of Record:
BOYD W. RAU
6200 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9544

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH: (210) 615-2300 FAX: (210) 615-2578
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF004770

Issues & Revisions

NO.	DATE	DESCRIPTION
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: JCS
Checked By:
Drawn by: JCS
Document date: 05/21/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title
EMS REFRIGERATION ONE-LINE DIAGRAM

Sheet No.
EM301

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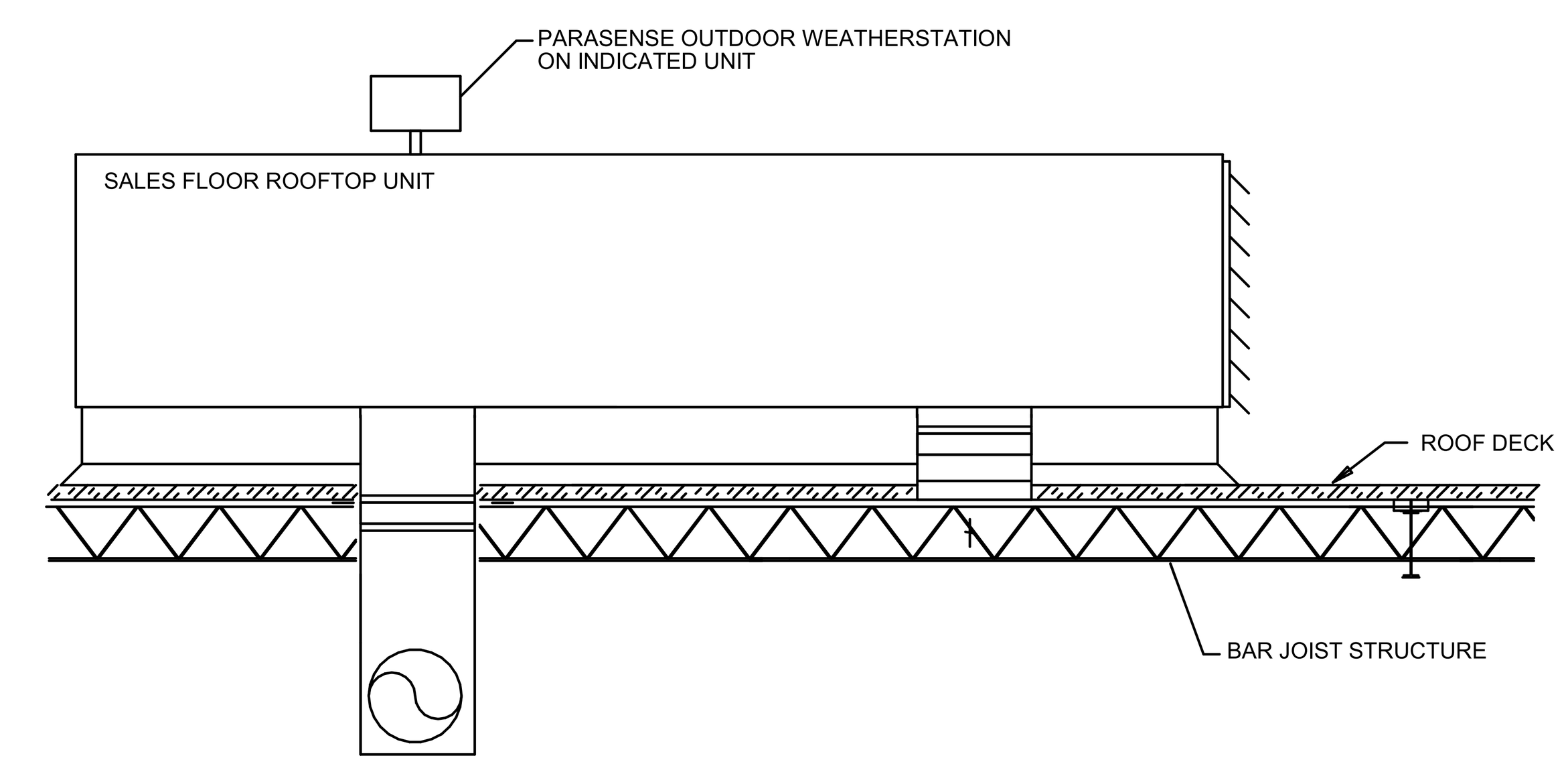
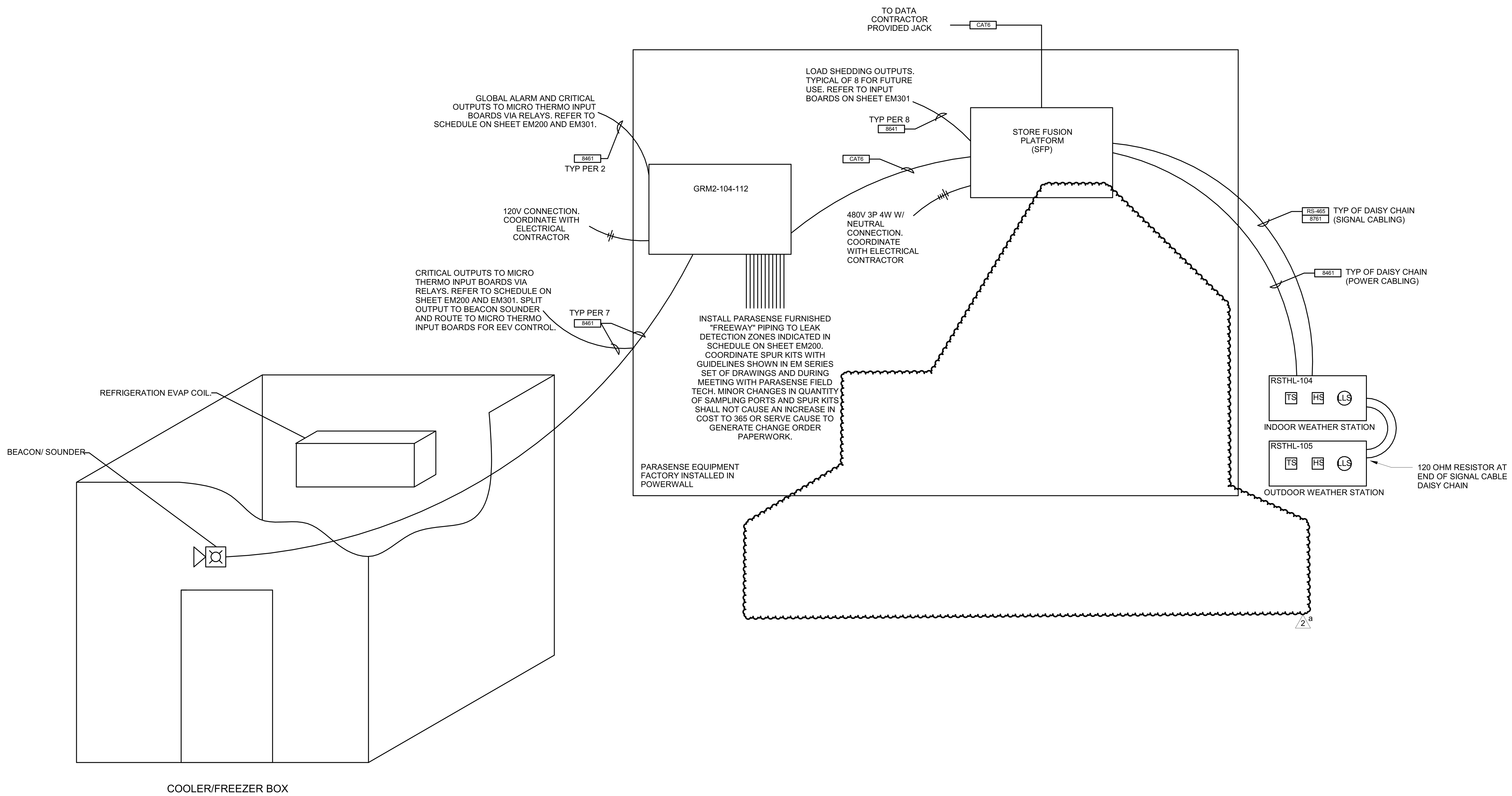


2 PARASENSE RTU1 DETAIL
NTS



1 PARASENSE ONE-LINE DIAGRAM
NTS

DETAIL ARE DIAGRAMMATIC ONLY REFER TO MANUFACTURER'S RECOMMENDATIONS AND REFRIGERATION CONTRACTORS FIELD INSTALLATION FOR EXACT LOCATION ON ENERGY MANAGEMENT EQUIPMENT.

- - - - - - - FACTORY FURNISHED
——— FIELD INSTALLED

CIRCUIT SCHEDULE

RS-485	BELDEN #8761 - 2C 22AWG SHIELDED CABLE
8461	BELDEN #8461 - 2C 18AWG UNSHIELDED CABLE
9486	BELDEN #9486 - 2C 18AWG UNSHIELDED CABLE
CAT6	CATEGORY 6 CABLE, REFER TO DIVISION 27 SPECIFICATIONS

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
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365 BY WHOLE FOODS MARKET

Project Manager: JCS
Checked By:
Drawn by: JCS
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Template date:

Project No.
62911019

Professional Seal

Sheet Title
PARASENSE ONE-LINE DIAGRAM

Sheet No.
EM302

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DETAILS REMOVED IN THEIR ENTIRETY

2

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Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Project No.
62911019

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Sheet Title
ENERGY MANAGEMENT PARASENSE DETAILS

Sheet No.
EM400

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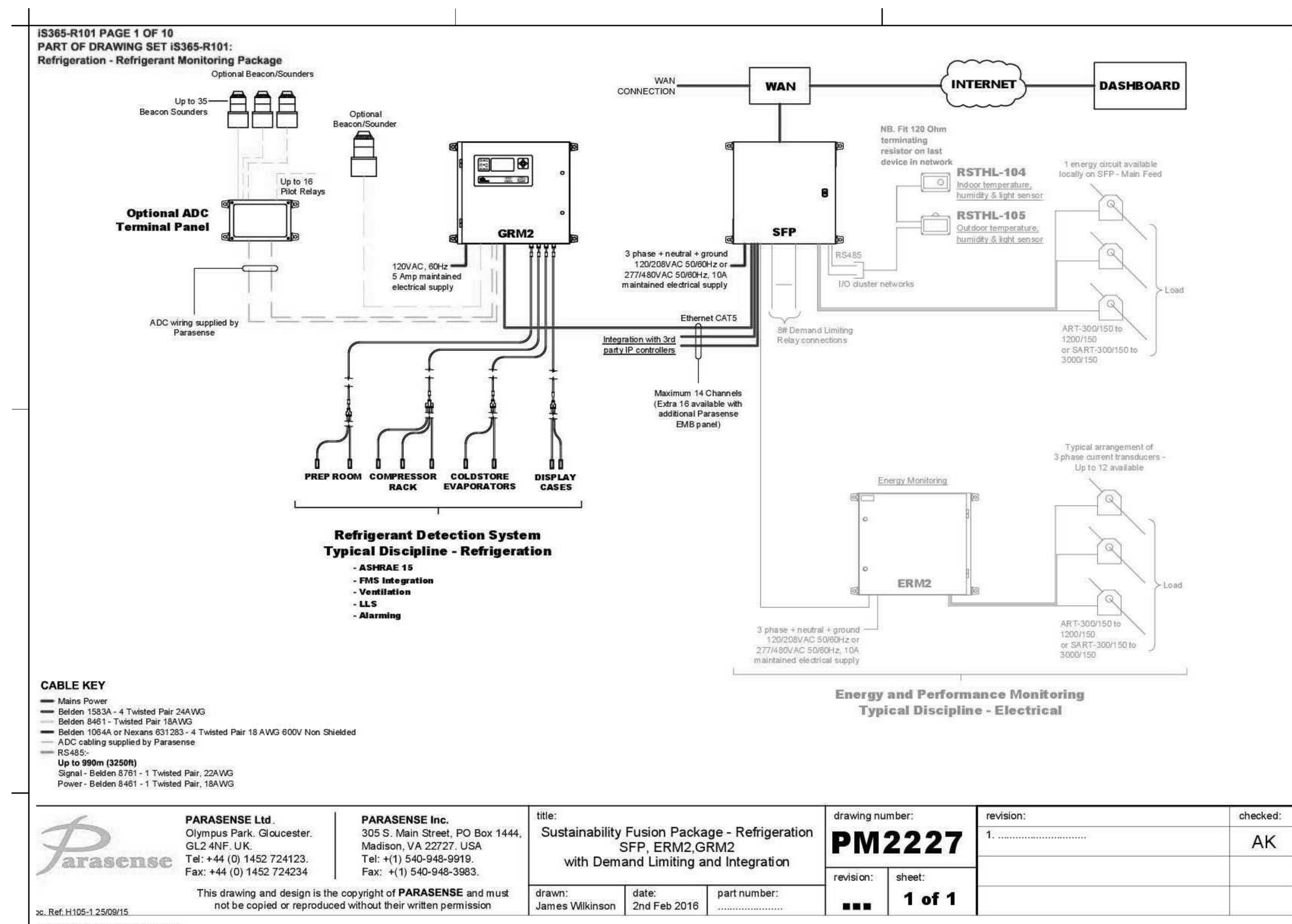

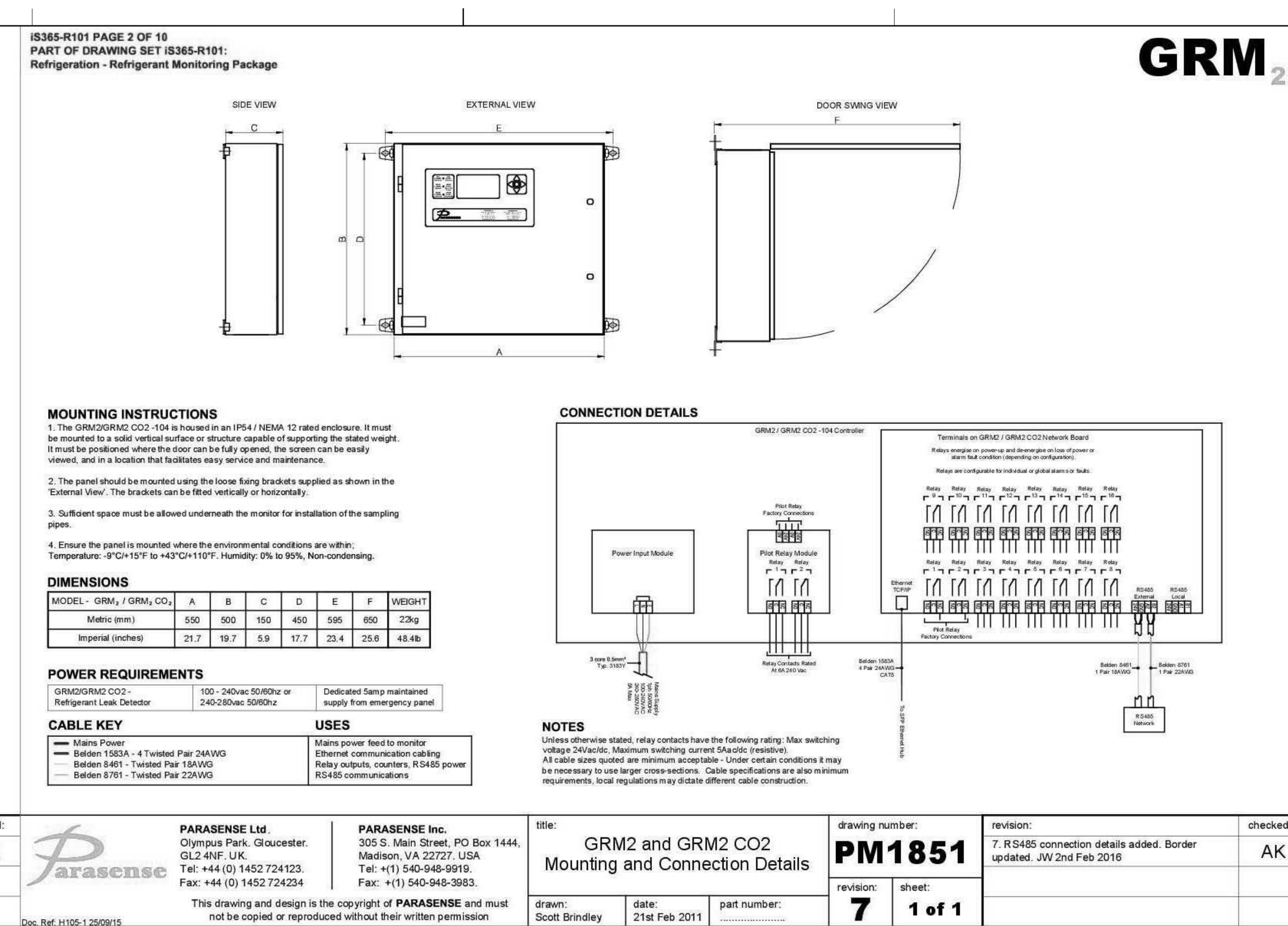

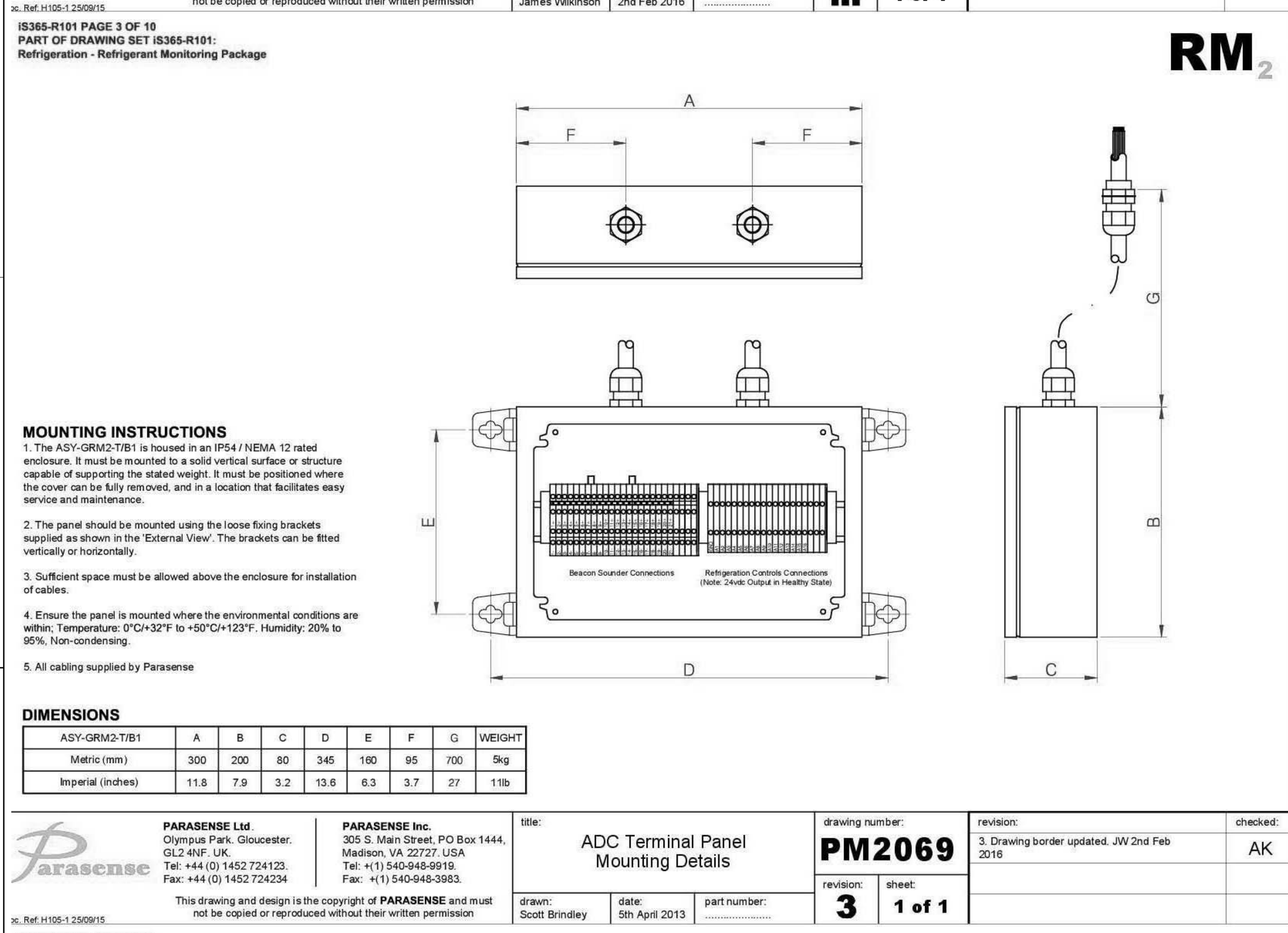

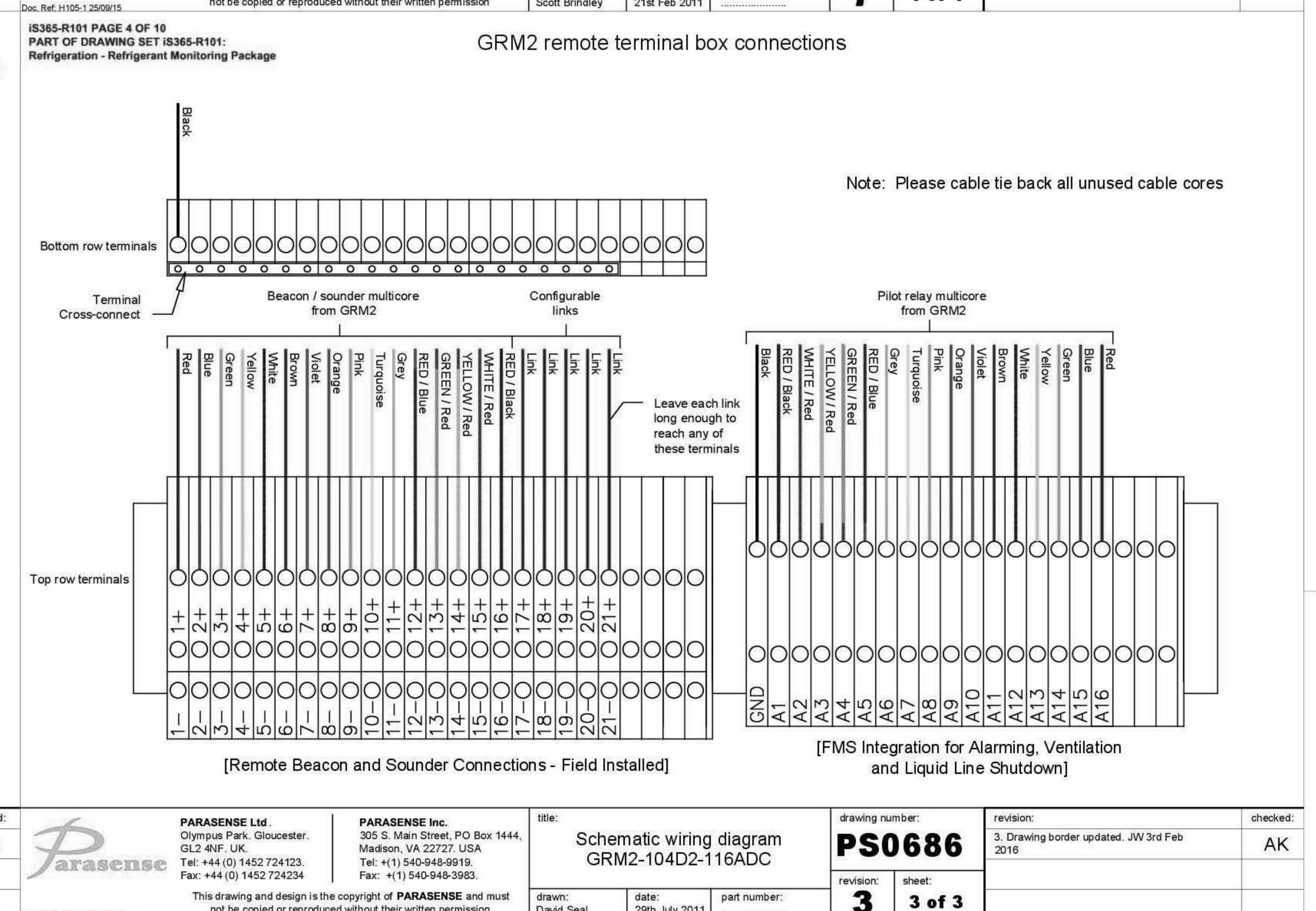

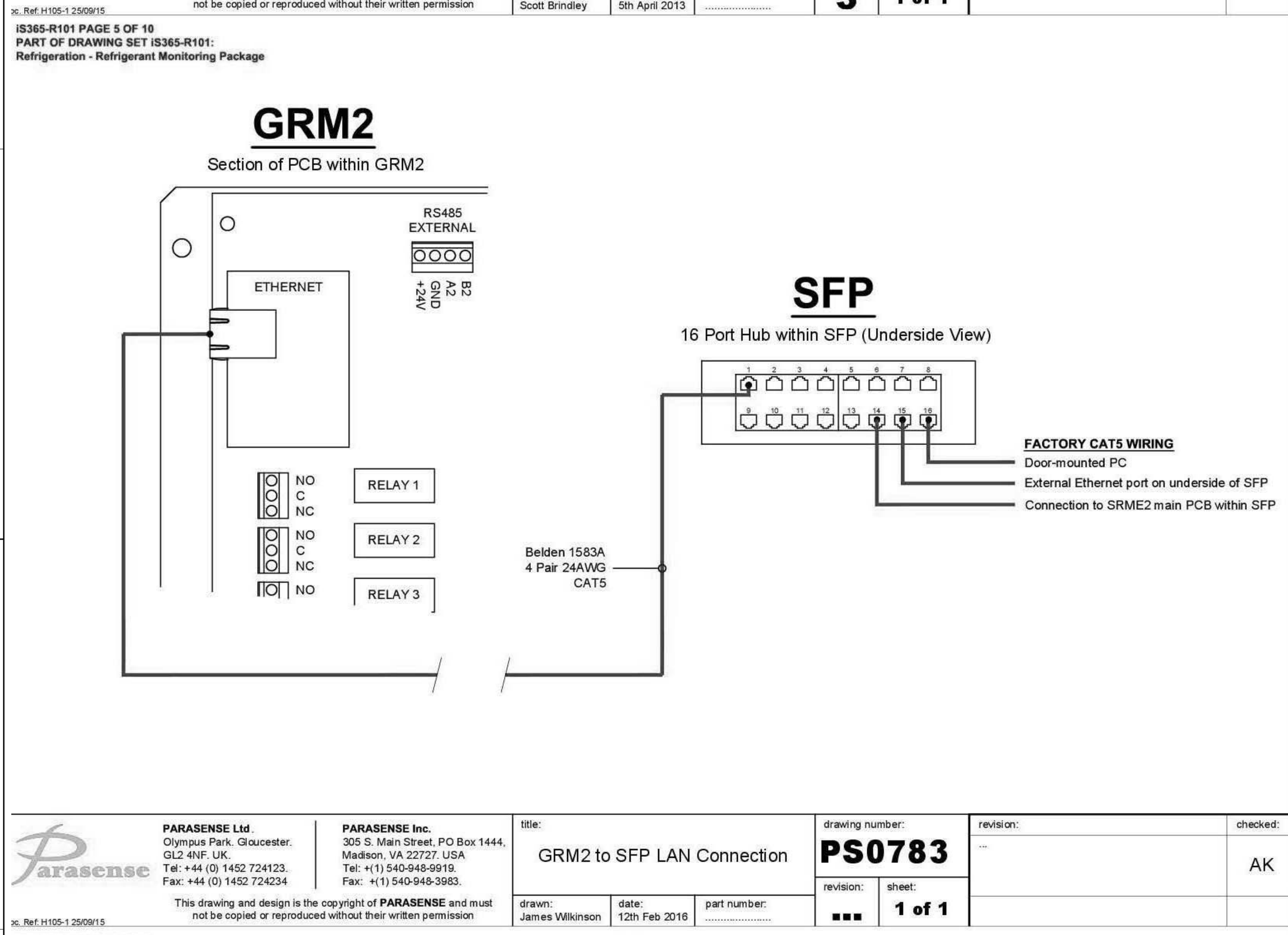

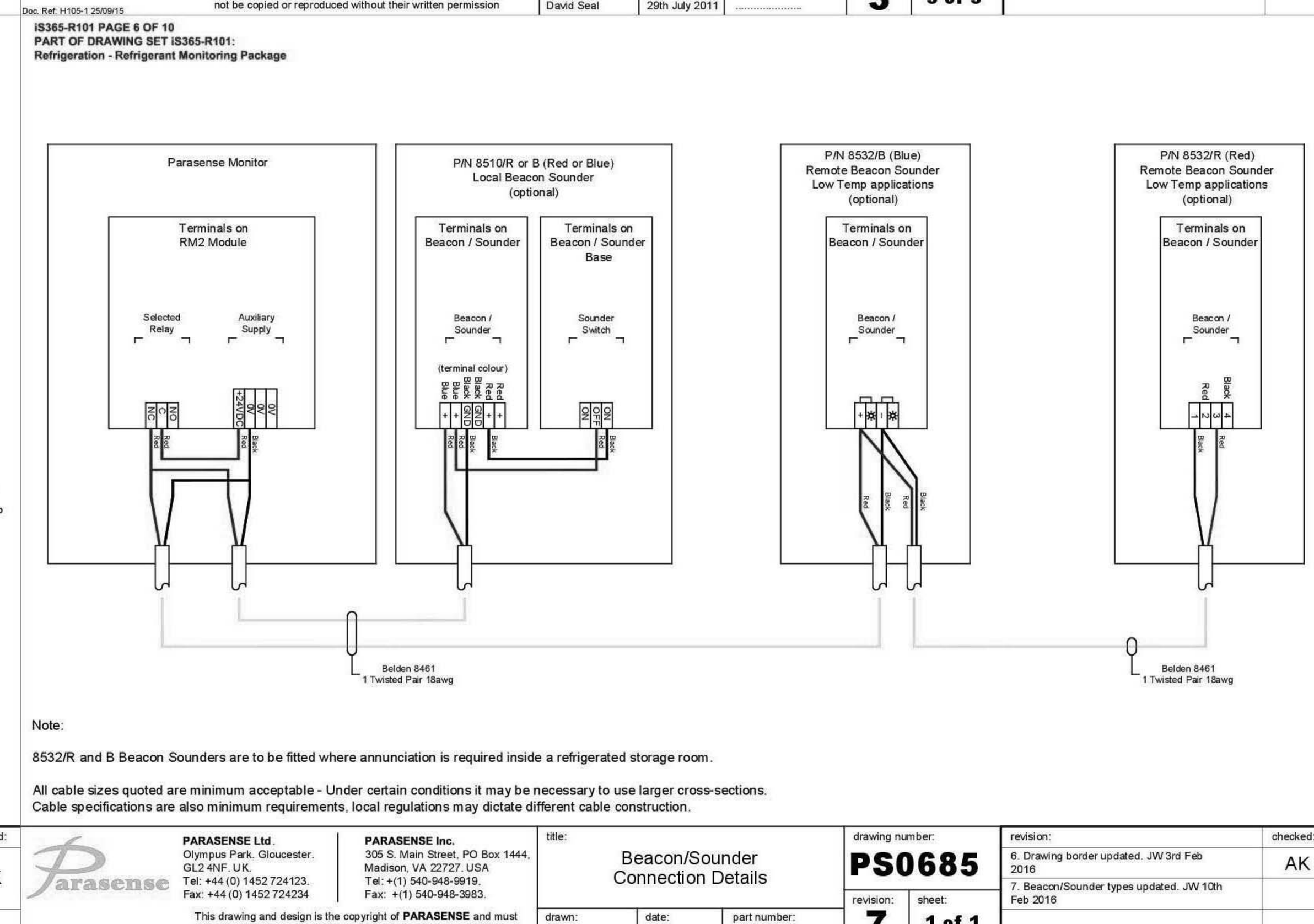

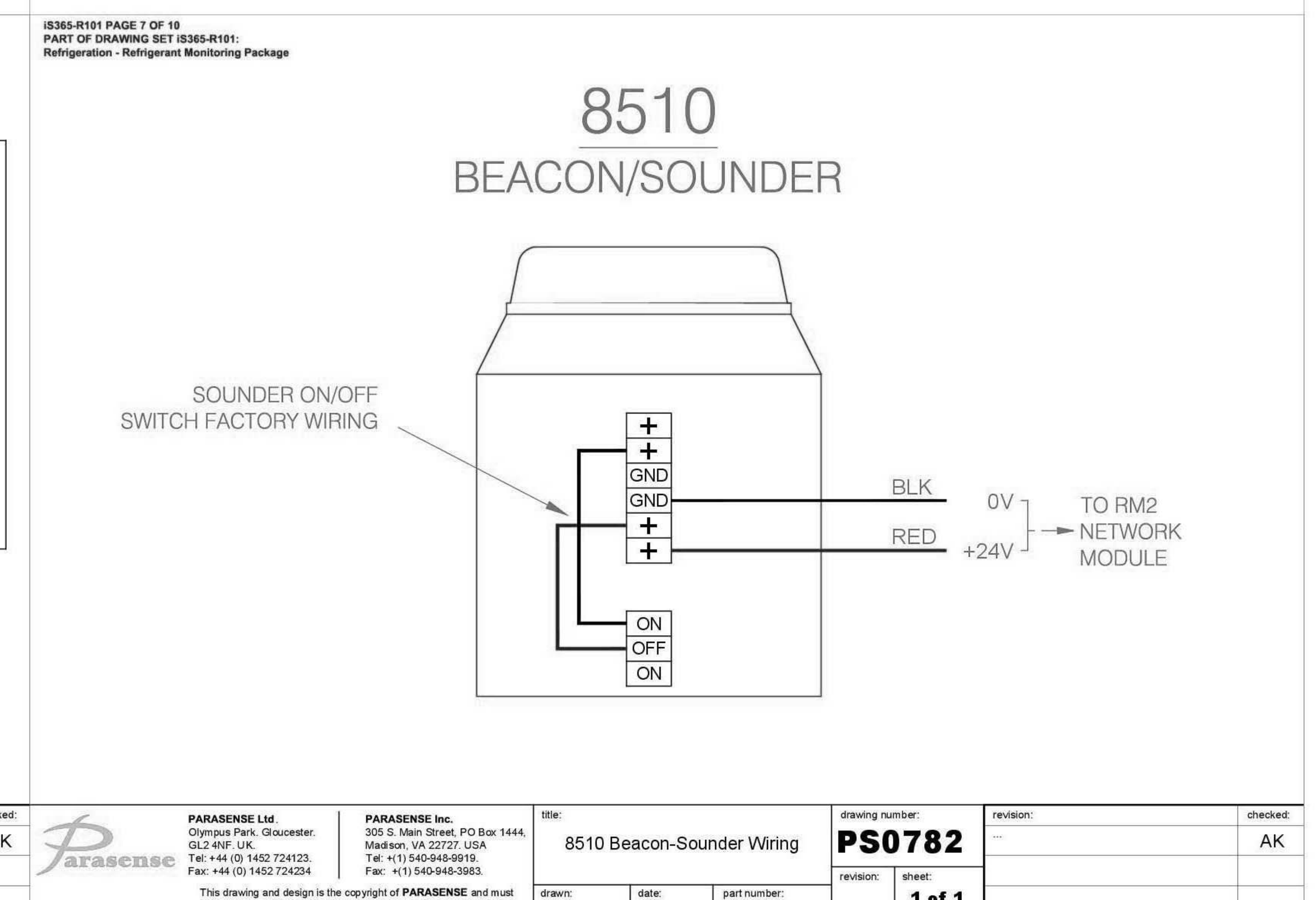

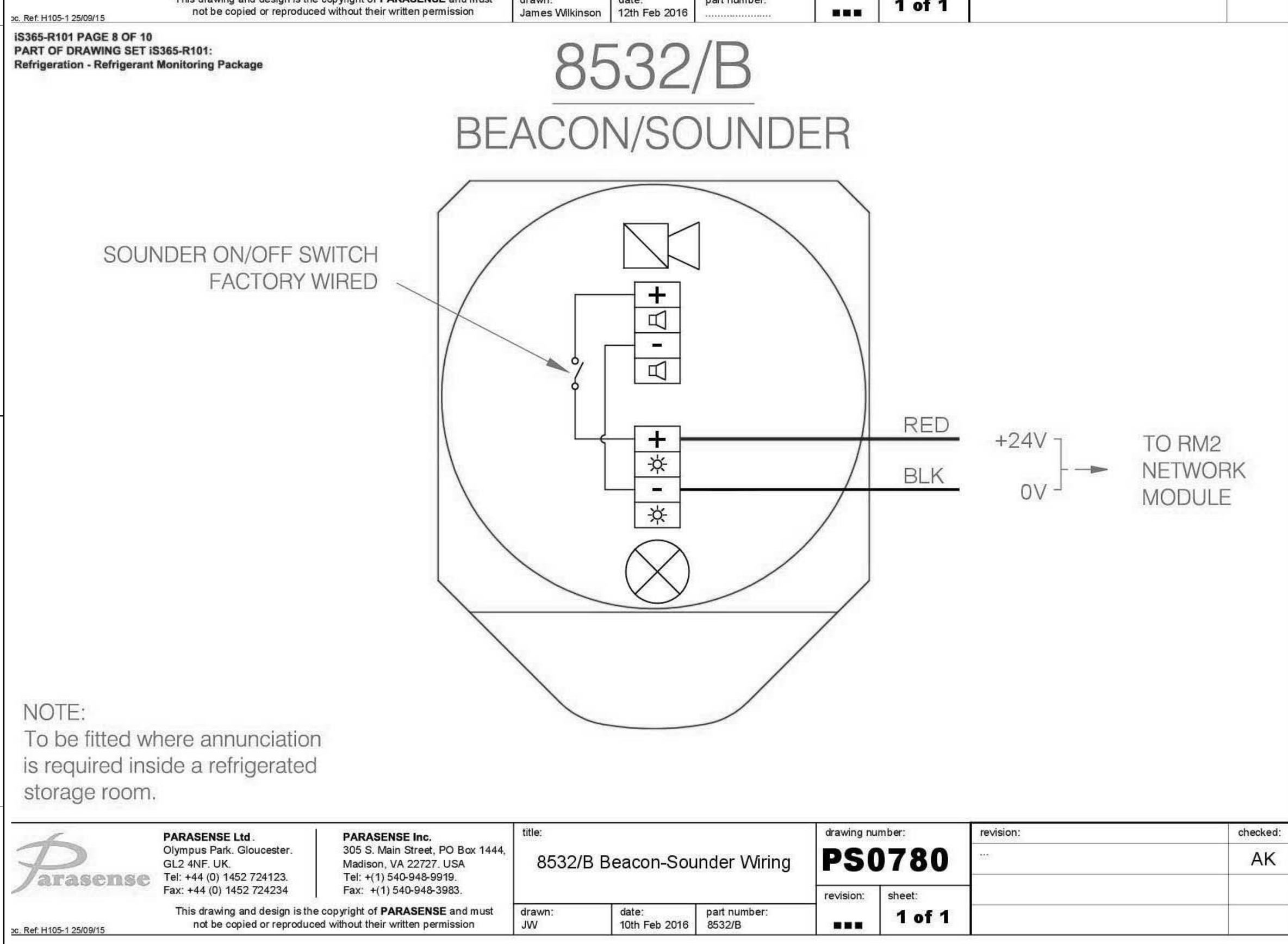

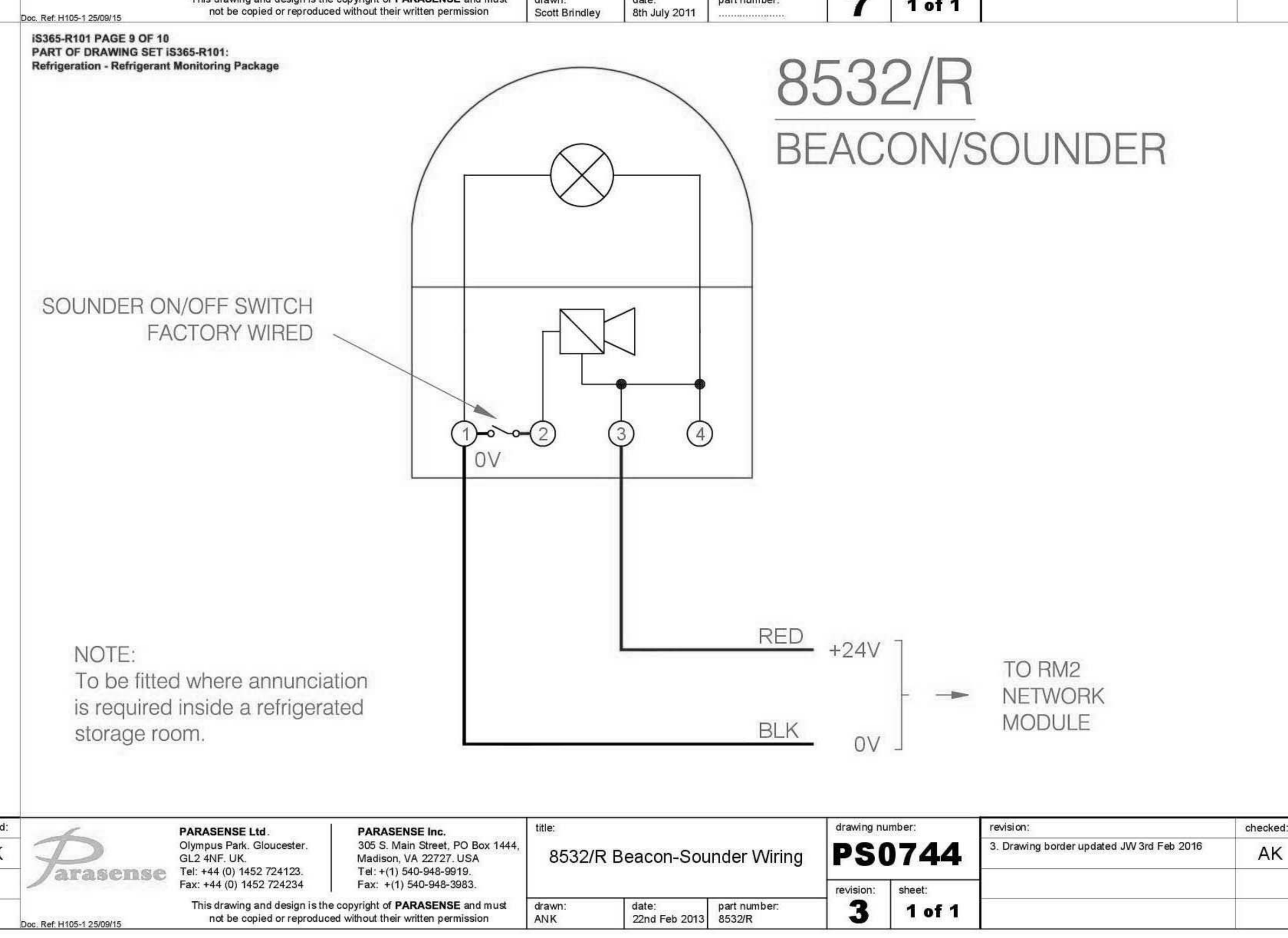

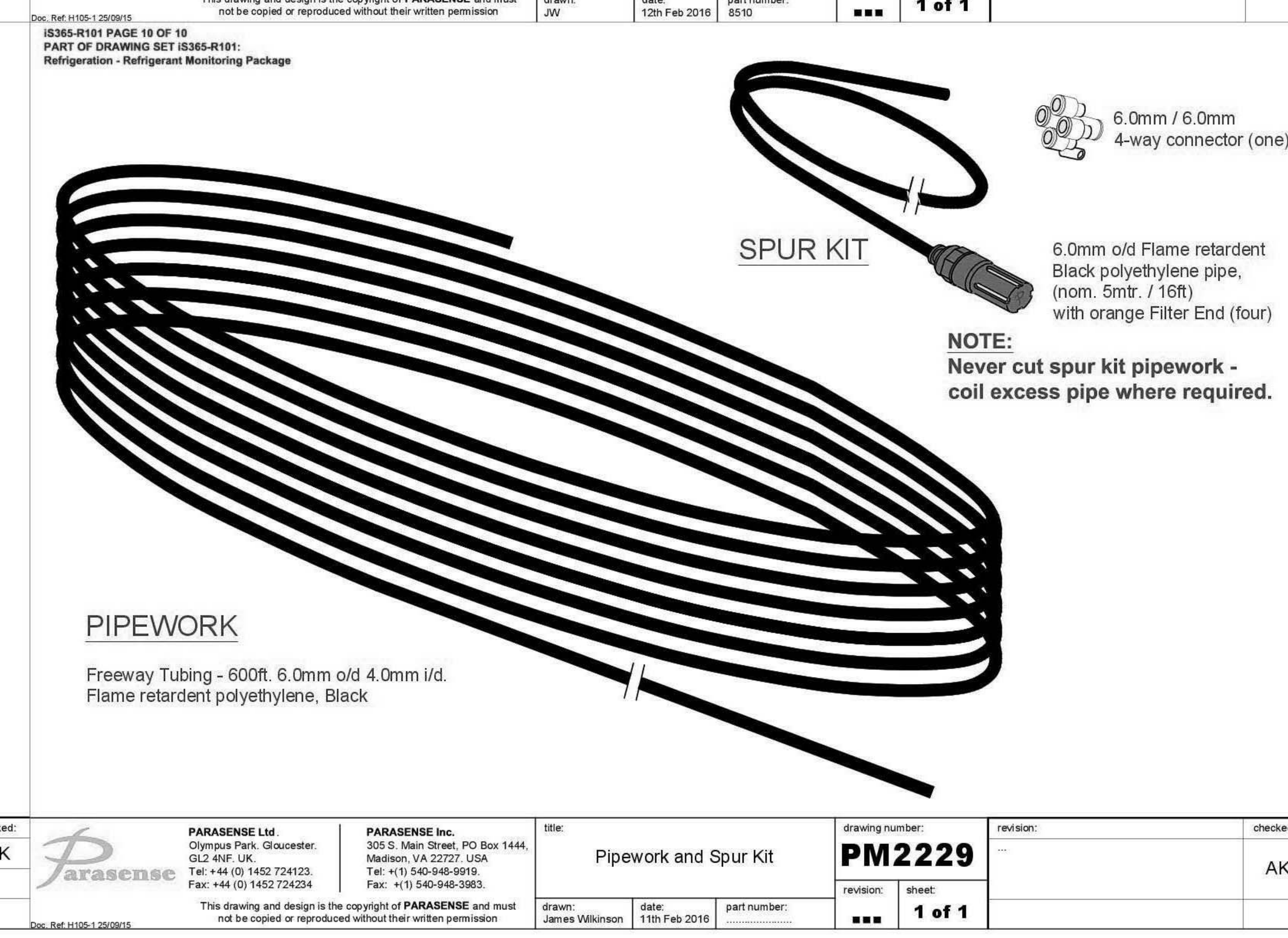

Parasense Approved Cable Specifications - Commercial

Communication Handlers - Refrigerant Monitoring Package - GRM_2

Purpose		Cable Description	Approved Cable
Ethernet Communications	300Ft	4 Twisted Pair 24Awg CAT 5E	Belden 1583A
Beacon / Sounder Cabling	1000Ft	Twisted Pair 18Awg	Belden 8461
Relay / EMS Connections	1000Ft	Twisted Pair 18Awg	Belden 8461

No Cable Substitutions Allowed - Contact Parasense For Further Information

Refrigerant Monitor Configuration Table

Location:

I.D.	Channel Name	Gas Type	Relay	Control Strategy
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				

DISCIPLINE - REFRIGERATION

For the Attention of Installing Refrigeration Contractors

Scope of Work: Refrigerant Leak Detection (GRM2)

The scope of work will be for the installation of a completely new 16 channel monitor, pipework and final commissioning. The Parasense material will be provided to you for install only, procurement will not be necessary. Cabling, wiring and routine installation material will need to be provided by the installing contractor.

This store shall have one sixteen channel GRM2 Refrigerant Monitor, and associated pipework and local connection(s) to existing EMS/FMS control system for in-store notification of a leak event and activation of ventilation in mechanical room. Parasense will provide the configuration with the equipment and the Contractor will be responsible for highlighting any required configuration changes for approval and implementing the approved changes to store configuration. Installer will need to have local connectivity to the EMS/FMS control system for commissioning and verification of installation completion.

1. To install the GRM2 refrigerant monitor with the screen at approximately 5ft above floor level, typically in the machine room. This installation includes all 6mm pipework, spur kits, beacon sounders (optional), relay connection, conduit runs and power feed. The monitor will require one fused 5 amp single phase 120 volt input that is always live, with a dedicated 20A circuit breaker. All wiring is to be installed per NEC, state and local requirements and the clients best practice specifications.
2. To implement local alarming capability for a leak event(s) to the onsite EMS/FMS system via digital input signal from, the pilot relays with the GRM2. Wire terminations on the relay from "C" to "NC" as per the schematic and should be configured with the EMS/FMS control equipment as noted on the T0010 configuration supplied with the monitor.
3. Where applicable, to implement ventilation override for the compressor rooms via digital input to the ventilation control system or by installing the Parasense pilot relay as a bypass circuit around the ventilation thermostat. Contractor is responsible for identifying the method required to drive the ventilation override and Parasense is to be notified.
4. Spur kits will be utilized at all locations to enhance the coverage area. The sample point locations will be selected by Parasense and noted in the supplied T0010 configuration. Spur kit number will be based on number of evaporators and areas of coverage.
5. Contractor is responsible for installing equipment in accordance with system configuration. However should changes be required Parasense technical support should be contacted prior to proceeding and any subsequent approved changes documented on the "installation checklist" for record - tel. 540-948-9919 / email. techsupport@parasense.com
6. Upon completion of the installation, the Installation checklist will need to be completed and turned in to the Parasense office in Virginia. A Parasense technician will carry out on-site commissioning of the system and provide a certificate of compliance.
7. Specific relevant guide lines from the Parasense installation manual will need to be followed for all aspects of the installation.

Scope of Work

Specific Requirements:

1. To install and commission one Parasense sixteen channel GRM2 refrigerant monitor in the machine room, including all 6mm pipework, spur kits, conduit runs and power feed. The monitor will require one fused 5 amp single phase 120 volt input that is always live, with a dedicated 20A circuit breaker. All wiring and equipment is to be installed in EMT conduit, and per NEC requirements.
2. To implement local alarming capability for a leak event(s) to the onsite EMS/FMS system via digital input signal from, the pilot relays with the GRM2. Wire terminations on the relay from "C" to "NC" as per the schematic and should be configured with the EMS/FMS control equipment as noted on the T0010 configuration supplied with the monitor.
3. Where applicable, to implement ventilation override for the compressor rooms via digital input to the ventilation control system or by installing the Parasense pilot relay as a bypass circuit around the ventilation thermostat. Contractor is responsible for identifying the method required to drive the ventilation override and Parasense is to be notified.
4. Spur kits will be utilized at all locations to enhance the coverage area. The sample point locations will be selected by Parasense and noted in the supplied configuration. Spur kit number will be based on number of evaporators and areas of coverage.
5. Contractor is responsible for installing equipment in accordance with system configuration. However should changes be required Parasense technical support should be contacted prior to proceeding and any subsequent approved changes documented on the "installation checklist" for record - tel. 540-948-9919 / email techsupport@parasense.com
6. Upon completion of the installation, the Installation Checklist will need to be completed and turned in to the Parasense office in Virginia. A Parasense technician will carry out on-site commissioning of the system and provide a certificate of compliance.
7. Specific relevant guide lines from the Parasense installation manual will need to be followed for all aspects of the installation.

General Requirements:

1. To coordinate all work with Parasense and store management. Where applicable installation of equipment must not interfere with store operations. In the event of a system failure, contact the project manager. Remain on site and follow the project manager's directions. Additionally, contact Parasense and leave status reports of the incident.
2. To coordinate Parasense OEM commissioning with installation team available on site at the same time to make good any deficiencies found during OEM commissioning. Contact Parasense technical support on Tel. 540-948-9919 for installation related questions and to schedule OEM commissioning at the completion of the installation.
3. All wiring is to be installed per NEC, state and local requirements and the clients best practice specifications. All power connections shall be installed in EMT conduit. All connections to Parasense equipment shall be water tight and enter into the base of the monitor. Installation instructions are contained within the attached documentation to assist in the installation process. All cabling is to be installed according to cable manufactures specifications.
4. Refer to the attached documentation for all power and cable spec requirements. **No cable substitutions are approved.**
5. Any work on the sales floor requiring a lift must be coordinated and agreed with the store anager in advance, as night work may be required.
6. Completed installation checklist to be provided at time of OEM commissioning to onsite Parasense technician.

General Guidelines for the GRM2 Refrigerant Monitor and Accessories Installation:

1. The GRM2 monitor to be mounted in the compressor or electrical room to a solid vertical surface capable of supporting the load and where the monitor cannot be damaged by passing traffic. GRM2 refrigerant monitor must be accessible and at eye level for the refrigeration contractor to interrogate it.
2. All power, communications and FMS/EMS signal wiring to be installed to code and customers best practice; plus neatly run in conduit and installed into the base of the refrigerant monitor. Penetrations into the side or top of the monitor are not approved and may void monitor warranty.
3. Freeway (the Parasense supplied 6mm tubing) should be run in conduit vertically down the wall adjacent to the GRM2 and then run horizontally 12" below the base of the GRM2. The freeway should then be neatly looped into the respective channel fitting. Care should be taken not to cut the freeway too short, the freeway should enter into the channel fitting at 90° to ensure an air tight seal.
4. The cutting of the freeway is only to be carried out using the supplied cutting tool, to ensure a straight clean cut.

Visual and Audible Indication - Remote Beacon and Sounders (Optional)

Local and state code dictates the need for additional visual and audible indication of refrigerant concentration in air and control of refrigerant flow to confined spaces. In the event multiple remote beacon and sounders are required Parasense will include an additional terminal connection enclosure for the purpose of integrating on-site FMS/EMS with refrigerant detection and the annunciation of space specific remote beacon and sounders.

1. The supplied optional ADC terminal connection enclosure is to be mounted adjacent to the GRM2 where the supply wiring loom can be directly wired to the enclosure. Do not power GRM2 until the connections have been terminated.
2. To implement local alarming capability for a leak event(s) to the onsite EMS/FMS system via GRM2 relays or optional ADC terminal connection enclosure. Wire terminations in the supplied enclosure should be as per the schematic supplied and should be configured with the EMS/FMS control equipment as noted on the T0010 configuration supplied with the monitor.
3. To install beacon sounders next to entrances of monitored spaces as detailed in configuration. All connections to be run back to either the GRM2 relays or optional ADC terminal connection enclosure and terminated as indicated.

FMS / EMS Integration & Liquid Line Shutdown

1. 2# Relays outputs will be installed from the GRM2 to dedicated inputs on the FMS/EMS System. These will be wired from the dual pilot relay located at the bottom left hand corner of the refrigerant monitor above the power input module. For optional ADC monitor, FMS/EMS connections will need to be landed in the remote terminal connection enclosure - dual pilot relay not available in ADC monitor configuration.
2. Relay #1 (Alarm) - To be configured on the FMS/EMS system to appear as a refrigerant leak.
3. Relay #2 (Critical) - To be configured on the FMS/EMS system to appear as a refrigerant leak - critical alarm: should activate remote beacon and sounder(s), plus any ventilation systems within the machine room if applicable.
4. For the implementation of Liquid Line Shutdown with the ADC monitor, cabling will need to be run from the remote terminal connection enclosure to available digital inputs on the FMS/EMS controls and programmed to close the LL solenoid. Note - output from the GRM2 will be 24V dc, if the FMS/EMS controls are unable to accept a 24V dc input, an isolation ice cube relay will need to be installed to provide a dry contact.
5. Access integration to FMS via Real Time on Parasense Dashboard per Whole Foods Market specification

Freeway Runs - Pipework

1. The freeway is to be run from the GRM2 monitor to the site specific locations detailed on the monitor configuration.
2. The end of the freeway will be inserted into the manifold supplied with the spur kit. The manifold should be located in a position where it can be accessed for future verification of pipework integrity. Where multiple areas are being covered on one channel, the freeway manifold is to be positioned centrally between the multiple locations.
3. Care must be taken during the installation phase to ensure the freeway in not flattened or kinked as this will result in reduced airflow which may result in a fault on the system, or discovered at the commissioning stage.
4. Do not run the freeway from warm areas through refrigerated spaces as this will cause moisture to build up in the freeway.
5. The supplied PN-5300 freeway identification markers should be fitted to both ends of the freeway, adjacent to the spur manifold and the connectors at the base of the monitor.

Spur Kit Installation - Pipework

1. Spur kits are factory supplied at either 15ft or 25ft lengths and come in 1, 2, 3 or 4 way spur kit versions. The specific spur kit required for a location will be specified on the configuration dependent on the application.
2. The spur kit sample points should always be located as close as possible to the high probable leak points in the locations specified. Example of which are outline below.
3. The individual spur kit runs should be neatly run from the manifold installed onto the freeway to the desired location following existing cable runs or framework and secured every 12-18". The spurs should never be cut. All excess spur kit pipework should be neatly coiled (8" diameter) at the sample location with the sample point secured pointing directly downwards.
4. Do not secure the freeway to a surface that is either too hot to touch or where there is a probability of ice buildup.
5. Spurs must always be secured in a location where they will not be able to draw liquid into the system.
6. Spurs should not make large jumps unsupported as it leaves the piping vulnerable to damage.

Individual Spur Locations - Pipework

Multi-point technique evenly spread to target most likely source of leakage and in order of priority:

1. Racks and headers - (4-way spur kit) Locate all the shut off valves, schraeders, pressure regulators, solenoid valves, flare and joint and areas of high vibration, pressure and temperature changes. Distribute the sample points evenly amongst the equipment in downward pointing position and neatly tie. The spur kit sample points should not be located at floor level on all corners of the Rack.
2. Remote headers- (4-way spur kit) Headers will usually be monitored with the cooler/freezer they are mounted on (unless floor mounted), with 2 spur kit sample points being located at the control solenoids and the other 2 spur kit sample points dedicated to the evaporator(s) within the walk-in.
3. Walk-in freezers - (typically 1 - 3 -way spur kit) As per walk-in coolers, existing penetrations should be utilized where available. Where an existing penetration is not available, the ideal location for the sample point is behind the evaporator midway between the back wall, secured 8" down from the ceiling panel in the air flow, and properly sealed on both sides of the ceiling panel. All sample points must be mounted in the downward position clear of standing water and debris with excess spur kit pipework to be coiled above the freezer.
4. Walk-in coolers - (typically 1 - 4 -way spur kit) Spur kits will generally be supplied allowing 1 spur kit sample point per evaporator within the cooler and 1 spur kit sample point to be positioned on top of the cooler. The spur kit sample point located on top should be positioned near any control valves or solenoids. Where available, existing penetrations into the cooler should be utilized with the sample point being secured pointing directly downwards in the airflow behind the evaporator. Where an existing penetration is not available, the ideal location for the sample point is 3ft in front of the evaporator secured 8" down from the ceiling panel in the air flow, and properly sealed on both sides of the ceiling panel. All sample points must be mounted in the downward position clear of standing water and debris with excess spur kit pipework to be coiled above the cooler.
5. Sales floor case runs:- (2 or 4-way spur kit) 25ft spur kits will be supplied for these locations. The freeway should be run to the center of the case run and the supplied manifold fitted, then 2 spurs should then run as far as possible towards either end. The other 2 spurs should be positioned midway between these points with the excess coiled at the sample point end. All sample points must be secured so that they are not in contact with the floor where the ingress of liquid may occur. Where TXVs are utilized, the sample points should be installed at these locations.

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1 EM401
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brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

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DECATUR, GA

1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: JCS

Checked By:

Drawn by: JCS

Document date:

Template date:

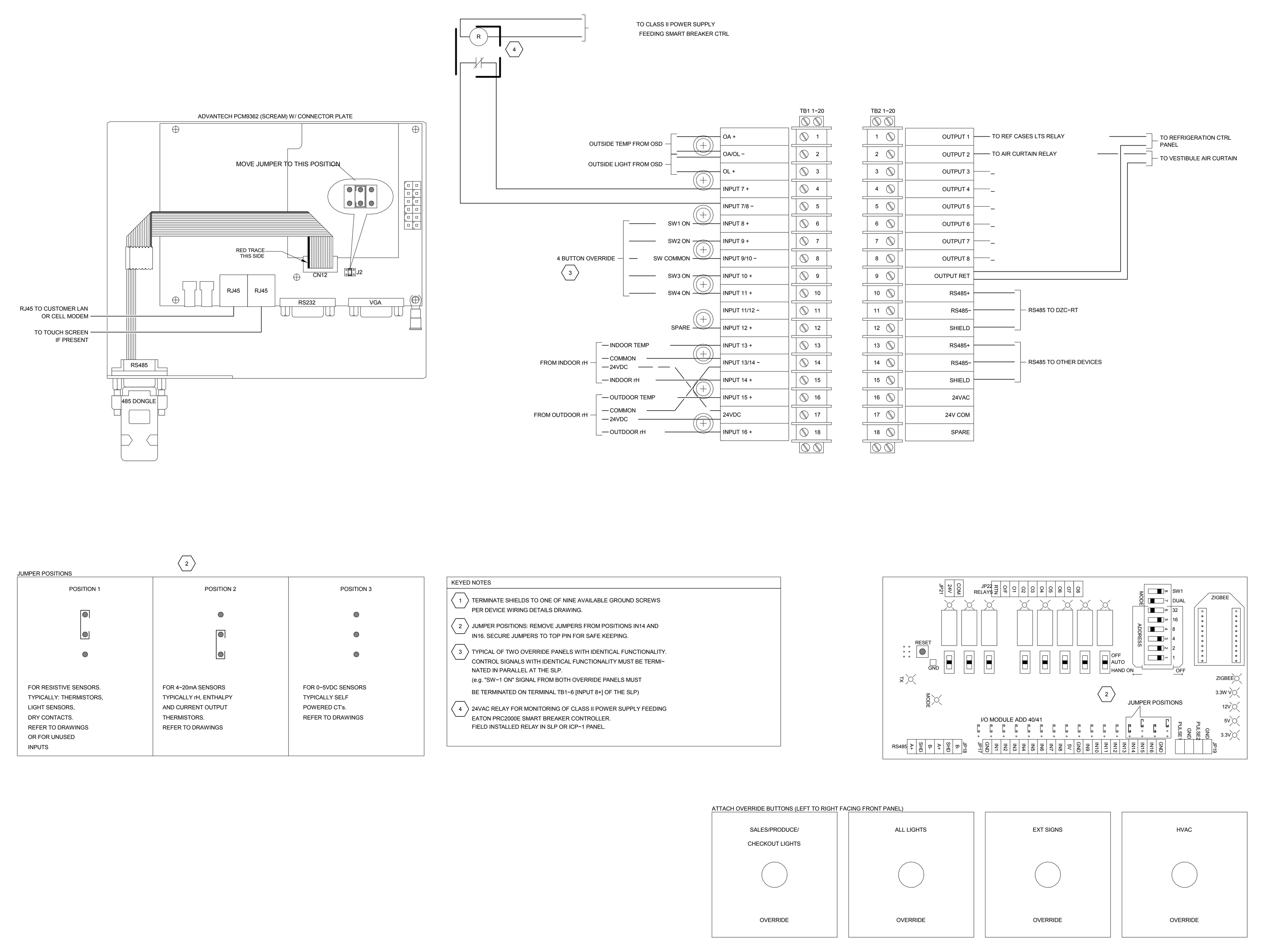
Project No. 62911019

Professional Seal

03/06/2018

Sheet Title: ENERGY MANAGEMENT PARASENSE DETAILS

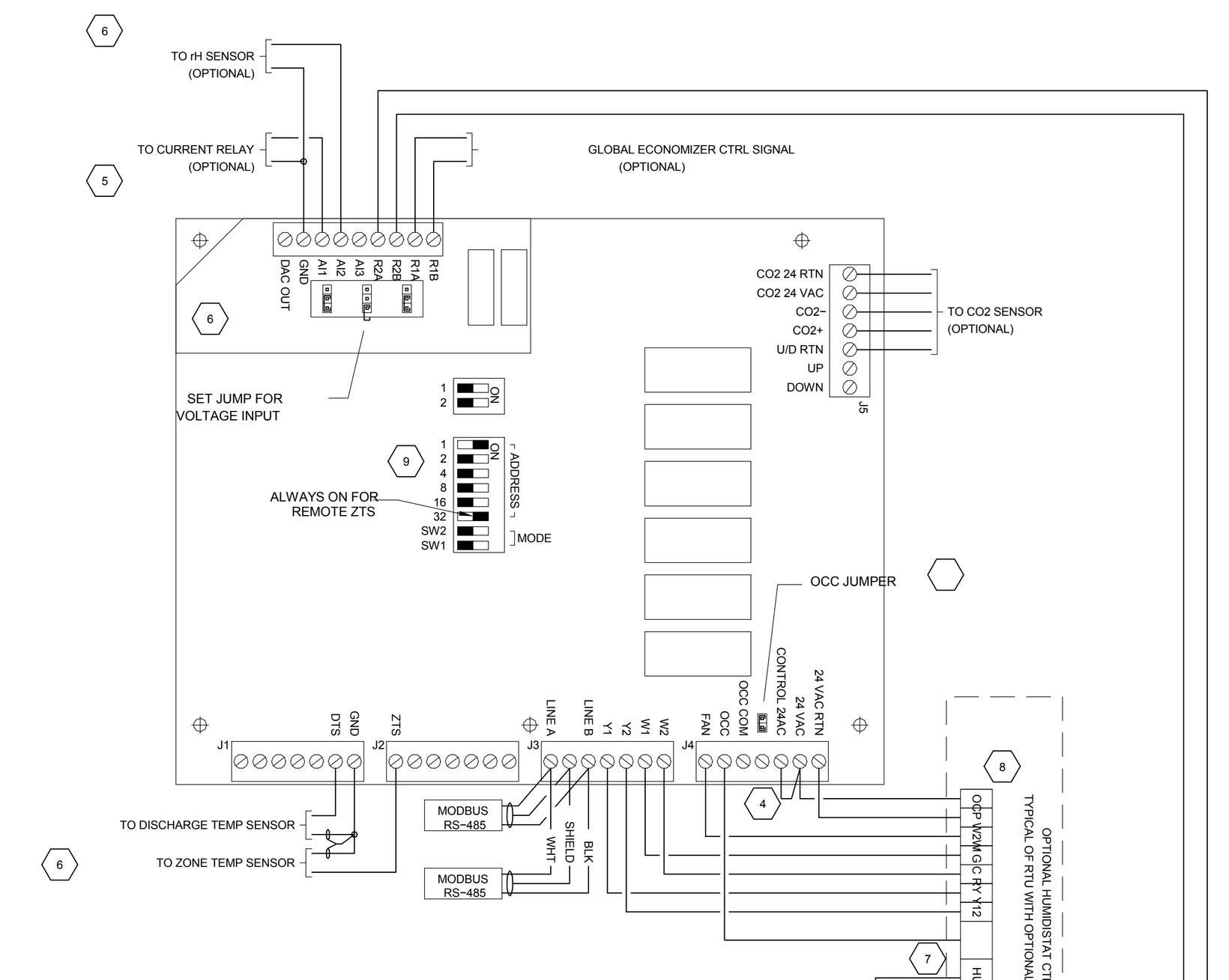
Sheet No. EM401



KEYED NOTES

1. TERMINATE SHIELDS TO ONE OF NINE AVAILABLE GROUND SCREWS PER DEVICE WIRING DETAILS DRAWING.
2. JUMPER POSITIONS: REMOVE JUMPERS FROM POSITIONS IN14 AND IN16. SECURE JUMPERS TO TOP PIN FOR SAFE KEEPING.
3. TYPICAL OF TWO OVERRIDE PANELS WITH IDENTICAL FUNCTIONALITY. CONTROL SIGNALS WITH IDENTICAL FUNCTIONALITY MUST BE TERMINATED IN PARALLEL AT THE SLP. (e.g. "SW-1 ON" SIGNAL FROM BOTH OVERRIDE PANELS MUST BE TERMINATED ON TERMINAL TB1-6 [INPUT 8+] OF THE SLP)
4. 24VAC RELAY FOR MONITORING OF CLASS II POWER SUPPLY FEEDING EATON PRC2000E SMART BREAKER CONTROLLER. FIELD INSTALLED RELAY IN SLP OR ICP-1 PANEL.

SLP / FW1 — SLP FIELD WIRING
NO SCALE



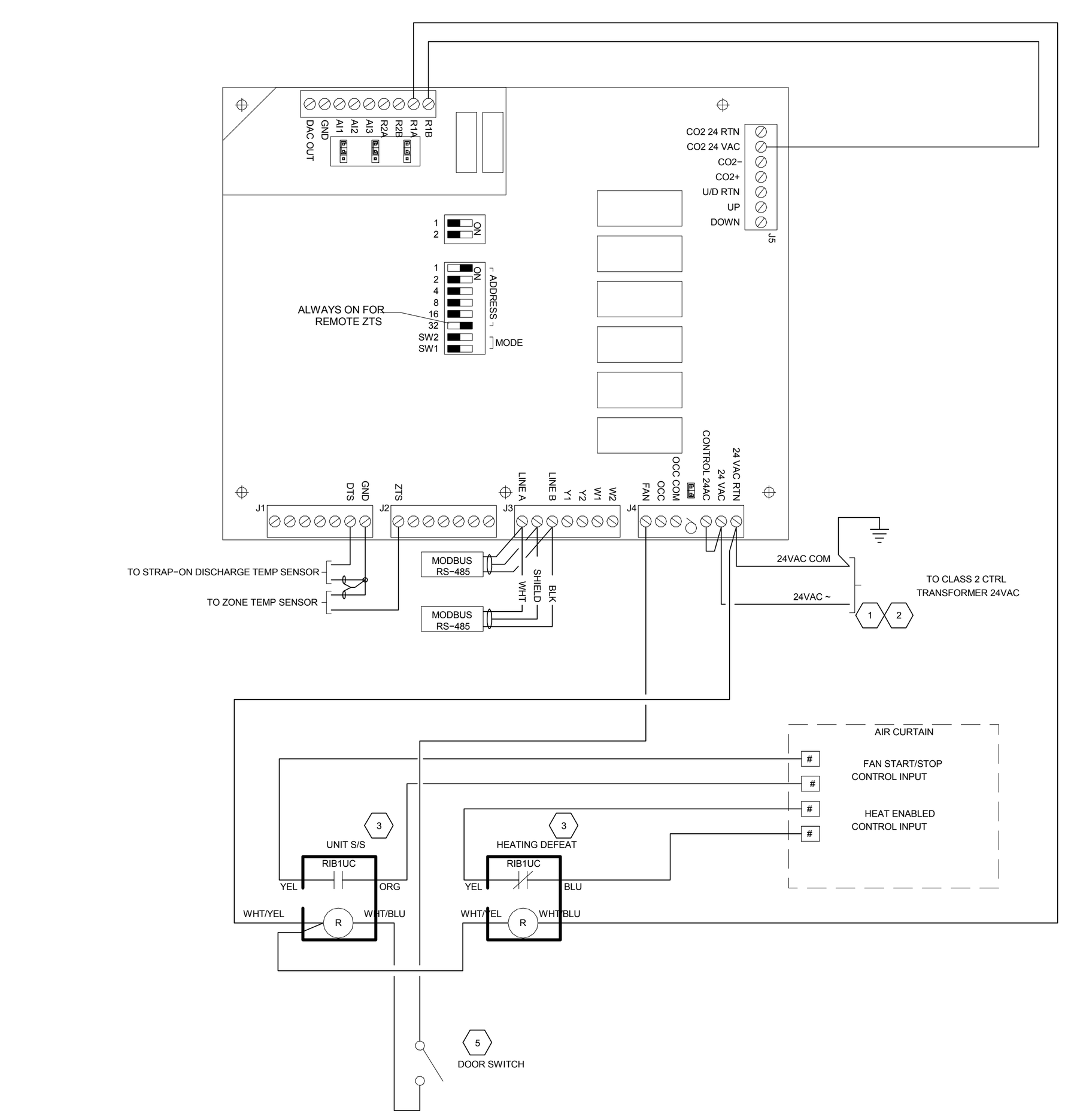
KEYED NOTES

1. REMOVE "OCC" JUMPER WHEN DRY CONTACT IS REQUIRED.
2. DEHUMIDIFICATION CONTROL SIGNAL (OPTIONAL). REFER TO RTU'S USER MANUAL FOR ADDITIONAL DETAILS.
3. MICRO I/O BOARD (OPTIONAL).
4. INSTALL JUMPER BETWEEN TERMINALS "CONTROL 24 VAC" AND "24 VAC" WHEN ISOLATED CONTROL POWER IS NOT REQUIRED.
5. CURRENT RELAY (OPTIONAL). ONLY REQUIRED FOR FAN STATUS MONITORING OF UNIT SERVING SEATING AREA.
6. UNITS WITH DE-HUMIDIFCATION CONTROL REQUIRE THE INSTALLATION OF A TEMPERATURE/rH SENSOR (OPTIONAL):

rH SENSOR	WIRE	DZC-RT
TEMP	GRN	ZTS
HUMIDITY	WHT	AI2
COM	BLK	GND
24VAC	RED	CO2 24VAC

7. OCCUPIED CONTROL SIGNAL (OPTIONAL).
8. FOR CORRECT OPERATION OF THE DZC-RT CONTROLLER THE COMMON TERMINAL "C" OF THE RTU'S CLASS II POWER SUPPLY MUST BE GROUNDED.
9. SET ADDRESS AND MODE OF DZC-RT CONTROLLER AS REQUIRED.

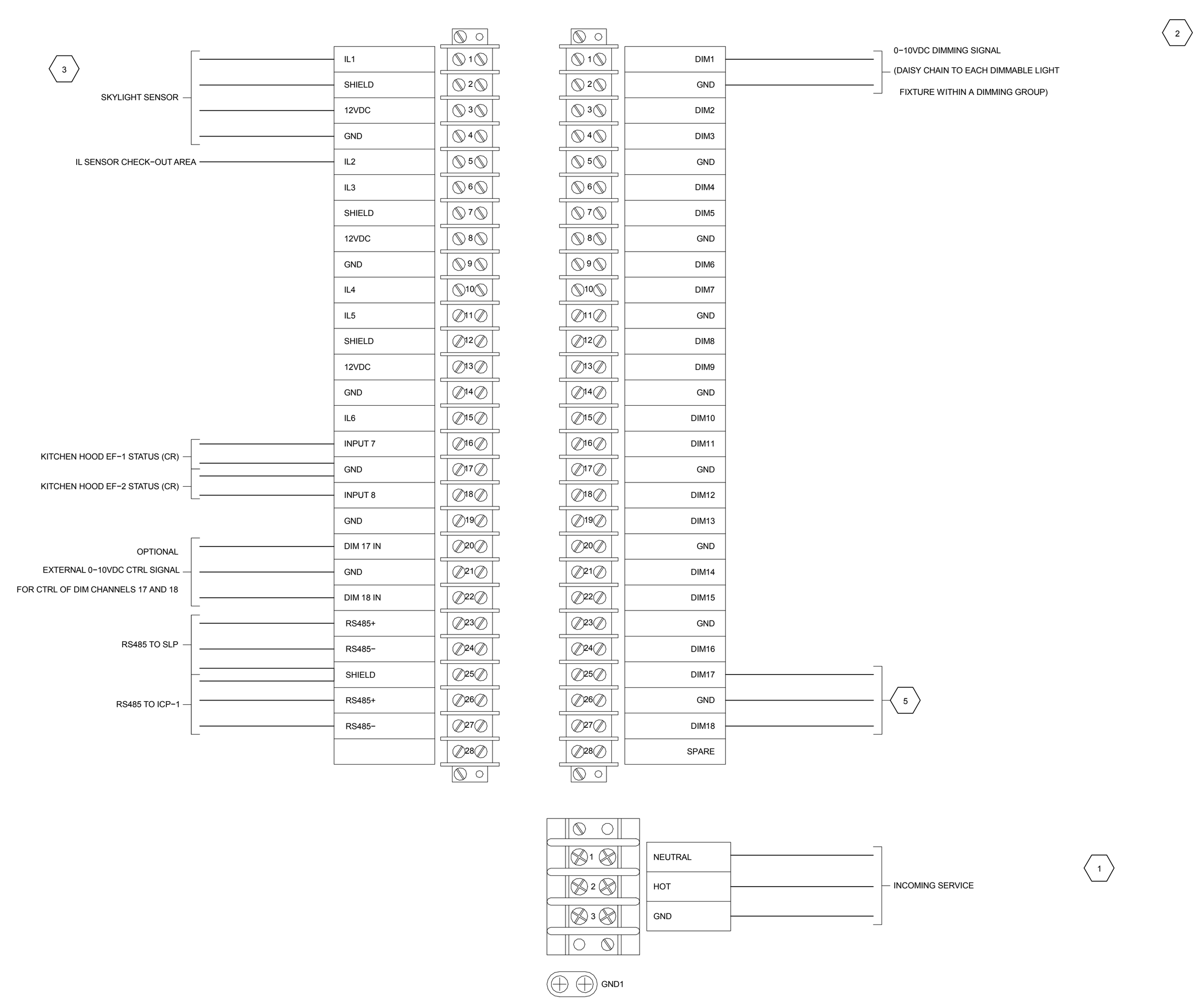
DZC-RT / FW1 — DZC-RT TO RTU DETAIL
NO SCALE



KEYED NOTES

1. INSTALL CLASS 2 CONTROL TRANSFORMER NEXT TO DZC-RT CONTROLLER.
2. THE DZC-RT REQUIRES A GROUNDED POWER SUPPLY FOR CORRECT OPERATION. IF THE POWER SUPPLY BUILT IN THE AC UNIT IS UNGROUNDED THEN CONSIDER THE INSTALLATION OF A CLASS II ISOLATION TRANSFORMER.
3. INSTALL 24VAC CONTROL RELAYS NEXT TO DZC-RT CONTROLLER.
4. TERMINALS IN A GENERIC AIR CURTAIN WITH ELECTRIC HEAT.
5. INTERLOCK FAN CTRL SIGNAL WITH AC DOOR SWITCH. DOOR SW SUPPLIED AND INSTALLED BY OTHERS.

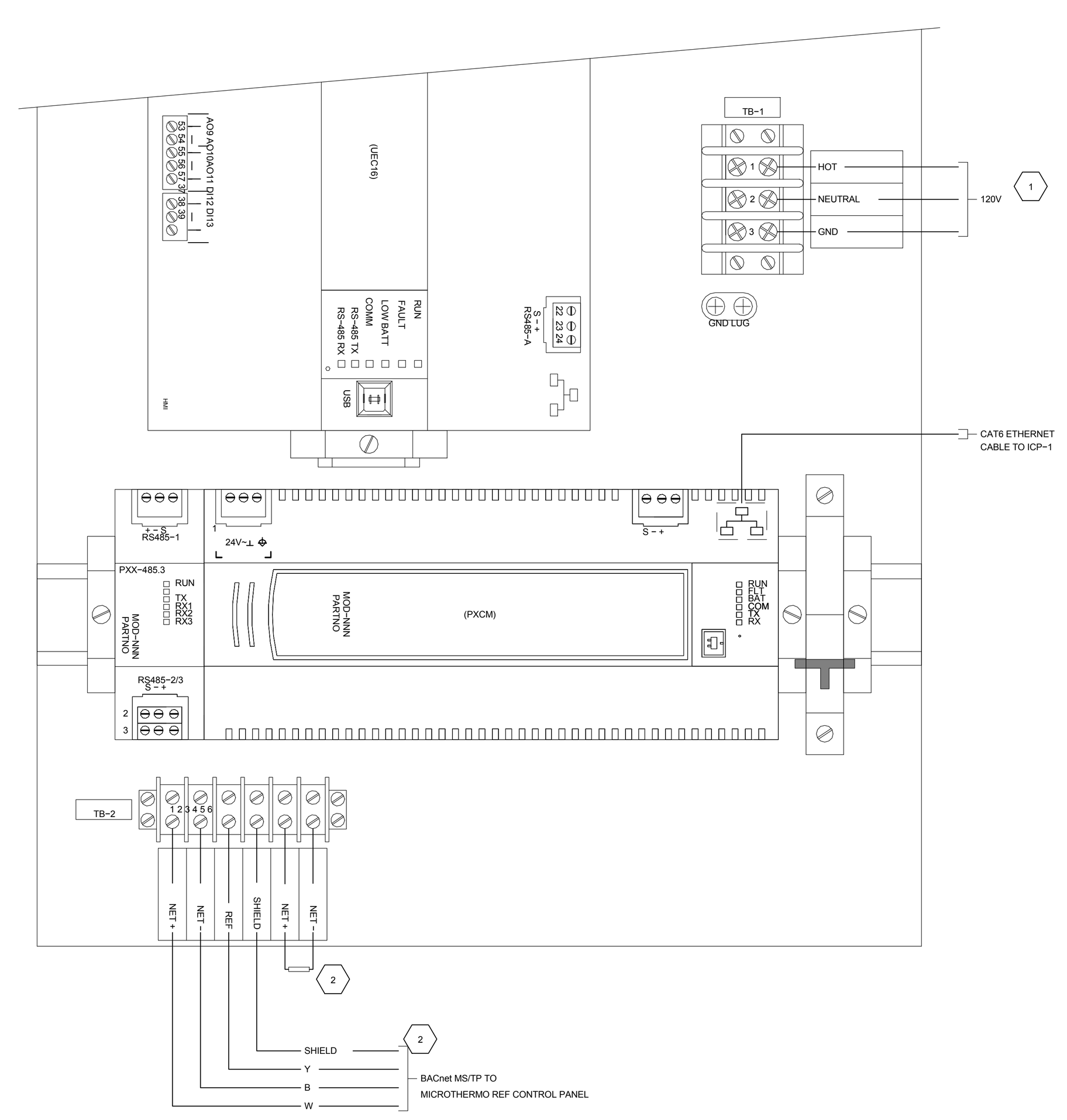
DZC-RT / FW2 — DZC-RT TO VESTIBULE AIR CURTAIN WITH ELECTRIC HEATING DETAIL
NO SCALE



KEYED NOTES

1. INCOMING SERVICE IS 120VAC AT 20Amps PANEL POWER REQUIREMENT: 120VAC AT 1Amp.
2. MAX LOAD PER DIMMING GROUP = 80mA.
3. EACH SHIELD, 12VDC & GND GROUND TERMINAL CAN BE SHARED BY 2 LIGHT SENSORS.
4. NOTE REMOVED
5. DIMMING CHANNELS 17 & 18 REQUIRE EXTERNAL 0-10VDC CTRL SIGNALS.

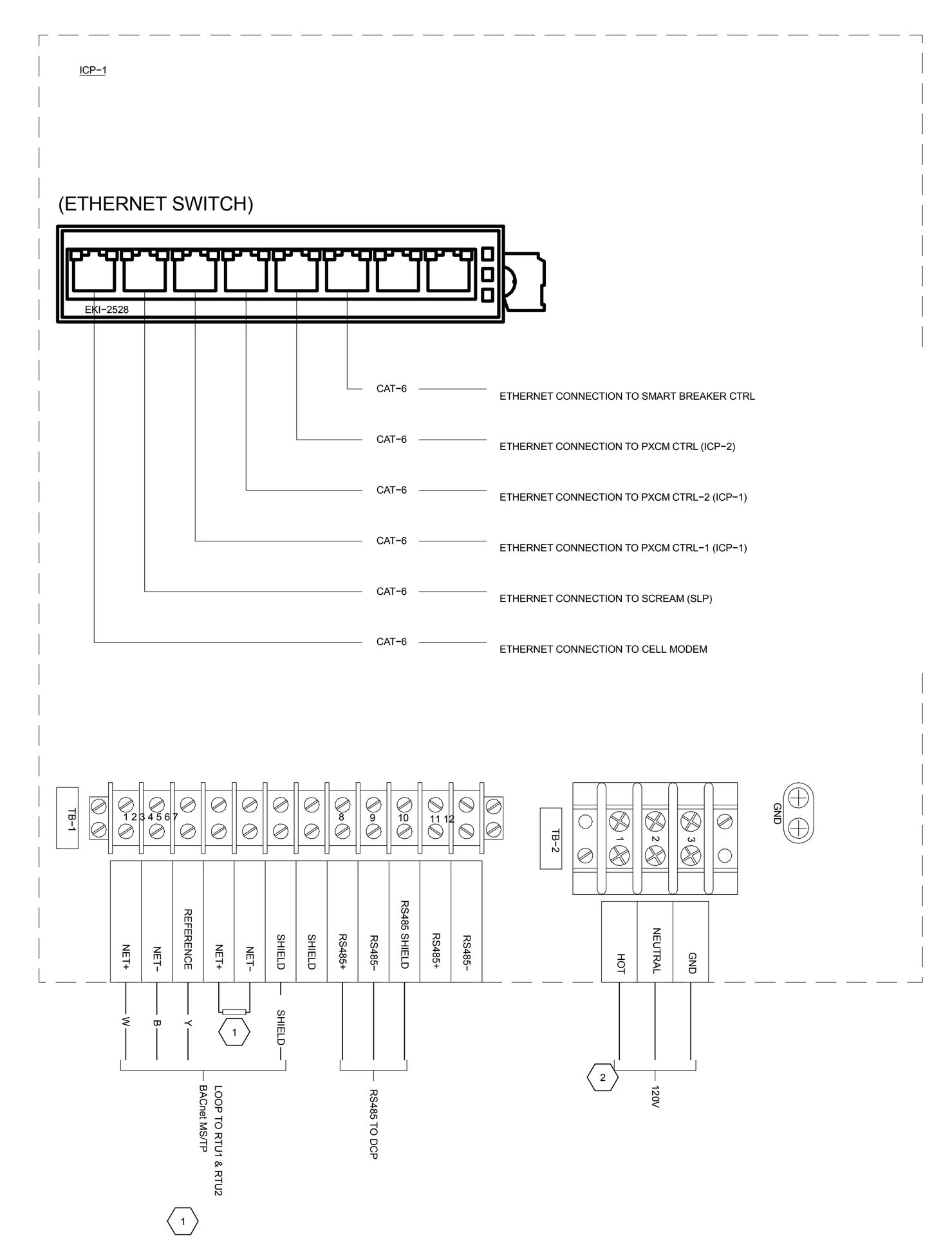
DCP / FW1 — DCP (18 CHANNELS) FIELD WIRING
NO SCALE



KEYED NOTES

1. POWER UP PANEL FROM DEDICATED 120VAC AT 20 AMP CIRCUIT.
2. INSTALL 120 OHM END OF LINE RESISTOR AT BOTH ENDS OF THE BACnet MS/TP LOOP.

ICP2 / FW1 — ICP-2 FIELD WIRING
NO SCALE



KEYED NOTES

1. INSTALL 120 OHMS END OF LINE RESISTOR AT BOTH ENDS OF THE BACnet MS/TP LOOP.
2. POWER UP PANEL FROM A DEDICATED 120VAC AT 20 AMPS CIRCUIT.

ICP1 / FW1 — ICP-1 FIELD WIRING
NO SCALE

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager:
JCS
Checked By:

Drawn by:
JCS
Document date:

Template date:

Project No.
62911019

Professional Seal

03/06/2018

Sheet Title
ENERGY MANAGEMENT
SIEMENS DETAILS

Sheet No.
EM402

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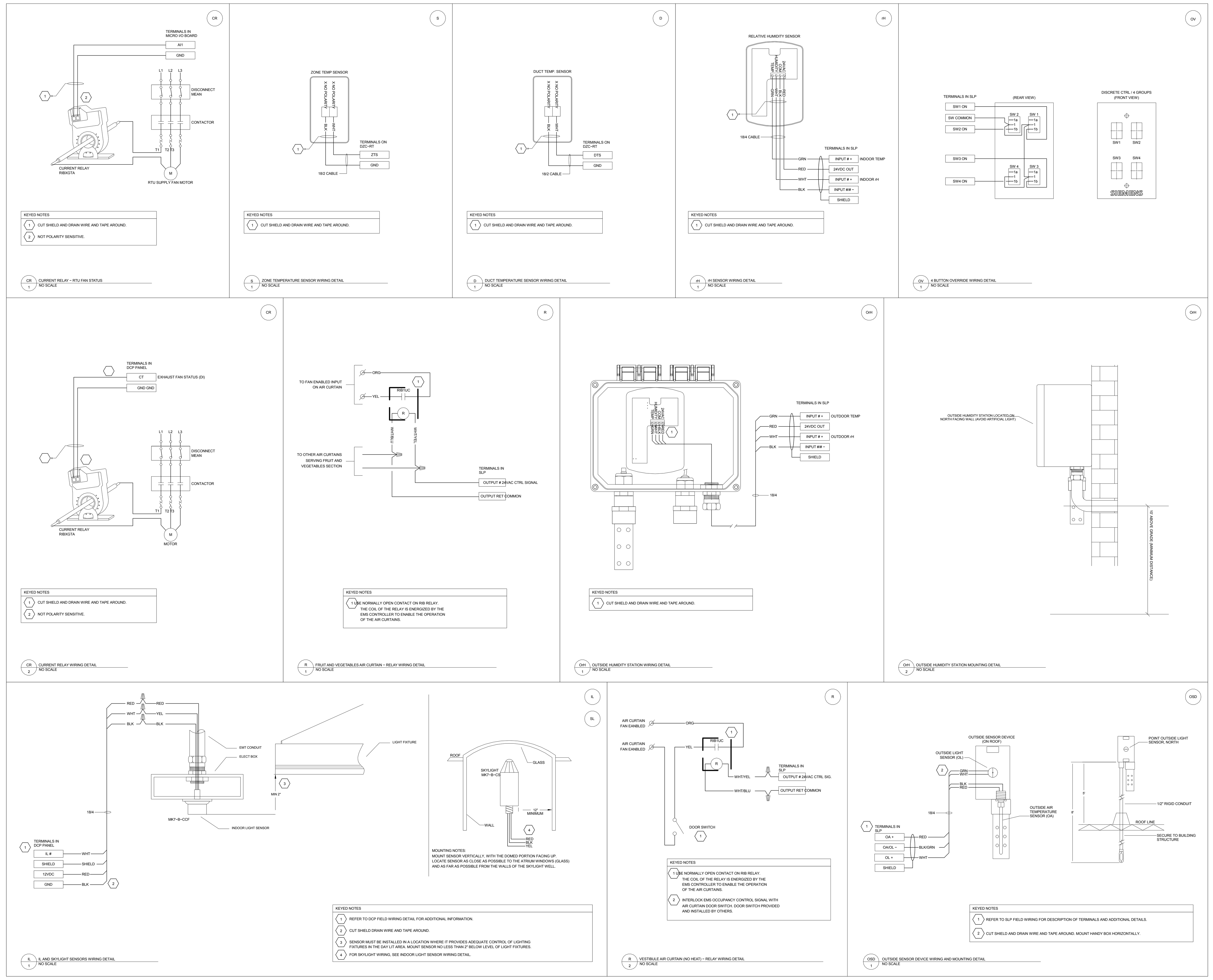

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Merriam, KS 66204

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Fax: 913-262-9044

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Professional Seal

03/06/2018

Sheet Title
ENERGY MANAGEMENT
SIEMENS DETAILS

Sheet No.
EM403

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FIRE ALARM GENERAL NOTES:

1. FIRE ALARM SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 70 AND NFPA 72. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
2. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES.
3. DEVIATIONS FROM ENGINEERS LAYOUT WILL NOT BE CONSIDERED UNLESS A FORMALLY SUBMITTED RFI IS RECEIVED AND APPROVED.
4. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION OR TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO 365.
5. PROVIDE ALL EQUIPMENT AND LABOR REQUIRED FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM.
6. PROVIDE AUDIBLE AND VISIBLE NOTIFICATION APPLIANCES AS INDICATED ON THE DRAWINGS.
7. DO NOT INSTALL SMOKE DETECTORS IN A DIRECT AIR FLOW NOR CLOSER THAN 3 FEET (1 METER) FROM AN AIR SUPPLY DIFFUSER OR RETURN AIR OPENING.
8. PROVIDE DUCT DETECTION AND SHUTDOWN FOR AIR DISTRIBUTION SYSTEMS EXCEEDING 2000 CFM. DUCT SMOKE DETECTION SHALL TRANSMIT A SUPERVISORY SIGNAL TO THE FACP.
9. PROVIDE FIRE ALARM EQUIPMENT AND CONNECTIONS REQUIRED TO SHUTDOWN FAN POWERED AIR DISTRIBUTION EQUIPMENT THAT IS LESS THAN 2000 CFM AND IS NOT PROVIDED WITH DUCT SMOKE DETECTION WHEN IT'S RESPECTIVE AIR HANDLING UNIT IS SHUTDOWN.
10. FORWARD COMPLETED FIRE ALARM CERTIFICATE OF COMPLETION TO 365.
11. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FIRE ALARM DEMOLITION NOTES:

1. PRIOR TO SUBMITTING BID, CONTRACTOR MUST VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW GENERAL NOTES, SPECIFICATIONS AND ALL APPLICABLE DRAWINGS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER OR 365, AS DEFINED IN BID DOCUMENTS, OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMITTING BID. ADDITIONAL COMPENSATION WILL NOT BE PAID FOR LACK OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR ALLOWANCE.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT ACTUAL "AS-BUILT" CONDITIONS.
3. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
4. PERFORM ALL WORK ACCORDING TO THE PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL TEMPORARY DESIGN AND/OR CONFIGURATIONS THAT MEET APPLICABLE CODE REQUIREMENTS AS NECESSARY TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.
5. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.
6. ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY THE LANDLORD, THE LEASER AND ADJACENT TENANTS A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK.
7. EQUIPMENT AND CONDUIT TO BE REMOVED SHALL BE KEPT FOR REINSTALLATION DURING THE CONSTRUCTION PHASE WHEN POSSIBLE AND/OR INDICATED ON THE DRAWINGS. AVOID DAMAGE TO SALVAGED EQUIPMENT AND CONDUIT DURING DEMOLITION PHASE. PROPERLY DISPOSE OF WIRING AND MATERIAL THAT ARE REMOVED AND ARE NOT REQUESTED TO BE SALVAGED BY 365.
8. REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
9. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN. REPAIR DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO 365.
10. PATCH ALL OPENINGS IN AREAS THAT REMAIN TO MATCH ADJACENT SURFACES AFTER EXISTING EQUIPMENT IS REMOVED AND VACATED.
11. FIRE ALARM SYSTEM(S) NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.

FIRE SPRINKLER GENERAL NOTES:

1. SPRINKLER SYSTEM DESIGN, INSTALLATION AND MATERIALS SHALL BE IN ACCORDANCE WITH NFPA 13. SYSTEM SHALL ALSO MEET ALL APPLICABLE BUILDING CODES, FIRE CODES AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER. VERIFY REQUIREMENTS PRIOR TO BID SUBMITTAL.
2. INFORMATION ON CONTRACT DOCUMENTS IS GENERAL INFORMATION AND FOR BID PURPOSES ONLY. LAYOUT SYSTEM, PERFORM REQUIRED CALCULATIONS AND COORDINATE WITH OTHER TRADES.
3. PROVIDE ADDITIONAL MATERIALS AND LABOR REQUIRED DUE TO LACK OF COORDINATION AND TO MEET AUTHORITY HAVING JURISDICTION AND INSURANCE CARRIER REQUIREMENTS AT NO ADDITIONAL COST TO 365.
4. MODIFY EXISTING SPRINKLER SYSTEM. RELOCATE AND/OR PROVIDE ADDITIONAL SPRINKLERS, PIPING, HANGERS, ETC. COORDINATE WITH WALLS, CEILINGS, LIGHTS, DIFFUSERS, STRUCTURE, OBSTRUCTIONS, ETC., IN AREAS AFFECTED BY SCOPE OF WORK.
5. COORDINATE SPRINKLER SYSTEM MODIFICATIONS TO MINIMIZE SYSTEM IMPAIRMENT. PROVIDE FIRE WATCH AND INTERIM FIRE PROTECTION MEASURES WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION, INSURANCE CARRIER OR 365.
6. COORDINATE PIPE ROUTING NEAR ELECTRICAL EQUIPMENT WITH NFPA 70.
7. COORDINATE SPRINKLER TEMPERATURES NEAR HEAT-PRODUCING SOURCES WITH NFPA 13.
8. DO NOT CONNECT MORE THAN ONE SPRINKLER TO AN EXISTING ONE- INCH OUTLET.
9. ROUTE PIPING AND DROPS IN BACK OF HOUSE AREAS VISIBLE FROM SALES FLOOR WITH OTHER TRADES WHERE POSSIBLE TO MINIMIZE VISIBILITY FROM SALES FLOOR.
10. REMOVE ALL ABANDONED PIPING, FITTINGS, HANGERS, ETC.
11. FORWARD COMPLETED CONTRACTOR MATERIAL TEST CERTIFICATES TO 365.
12. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FIRE SPRINKLER DEMOLITION NOTES:

1. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR 365 OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. COORDINATE NEW WORK AND DEMOLITION WITH OTHER DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
3. 365 RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT AND FIXTURES TO BE REMOVED. COORDINATE WITH 365 THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO 365'S DESIGNATED STORAGE LOCATION.
4. PERFORM ALL WORK ACCORDING TO THE PHASING SCHEDULE FOR THIS PROJECT. PROVIDE ALL TEMPORARY DESIGN AND/OR CONFIGURATIONS THAT MEET APPLICABLE CODE REQUIREMENTS AS NECESSARY TO CONFORM TO THE REQUIRED CONSTRUCTION PHASING OF THE PROJECT.
5. ONLY THE PORTIONS OF THE BUILDING AFFECTED BY THE SCOPE OF THE PROJECT HAVE BEEN SHOWN. INFORMATION SHOWN AS EXISTING TO REMAIN IS NOT BEING MODIFIED AS A PART OF THIS PROJECT.
6. ALL WORK SHALL BE PERFORMED SO AS TO NOT INTERRUPT SERVICE. THE CONTRACTOR SHALL PROPERLY NOTIFY 365, LANDLORD, THE LEASER AND ADJACENT TENANTS AS APPLICABLE A MINIMUM OF 48 HOURS IN ADVANCE BEFORE PROCEEDING WITH THIS WORK.
7. REMOVE ALL UNUSED AND DEMOLISHED EQUIPMENT AND ASSOCIATED MATERIALS FROM SITE. ABANDONING UNUSED PORTIONS WILL NOT BE ACCEPTABLE.
8. AVOID DAMAGING EXISTING SURFACES AND EQUIPMENT TO REMAIN FOR NEW INSTALLATION. REPAIR ANY DAMAGE CAUSED DURING WORK AT NO EXTRA COST TO 365.
9. SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WHERE FIRE SPRINKLER COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR SURFACES TO MATCH ADJACENT AREAS.
10. FIRE SPRINKLER SYSTEM(S) NOT ASSOCIATED WITH THE DEMOLITION SHALL BE LEFT IN SERVICE AS APPLICABLE.
11. VERIFY THAT EXISTING EQUIPMENT TO REMAIN IS OPERATING PROPERLY. NOTIFY THE ARCHITECT, ENGINEER AND/OR 365 OF ANY DAMAGED AND/OR MALFUNCTIONING COMPONENTS.
12. ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY.

FIRE PROTECTION SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

FIRE ALARM

FACP	ETR-FIRE ALARM CONTROL PANEL/UNIT
FAAP	RECESSED FIRE ALARM ANNUNCIATOR PANEL
RPS	REMOTE POWER SUPPLY
RT	REMOTE TEST STATION WITH INDICATING LIGHT
K	KNOX BOX
	PULL STATION
	SMOKE DETECTOR (E INDICATES ELEVATOR RECALL)
DD	DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
##	WALL MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
##	CEILING MOUNTED VISIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
##	CEILING MOUNTED AUDIBLE/VISIBLE NOTIFICATION APPLIANCE, ## INDICATES CANDELA
	ETR-EXTERIOR NOTIFICATION APPLIANCE

PIPING

FP	FIRE PROTECTION (FP)
	FIRE DEPARTMENT CONNECTION
	SPRINKLER RISER

STANDARD MOUNTING HEIGHTS

(AFF, AFG, UNLESS NOTED OTHERWISE)

FIRE ALARM	
AUDIBLE APPLIANCES (CENTERLINE)	84"
FIRE ALARM ANNUNCIATOR PANEL (DISPLAY)	60"
FIRE ALARM BELL (EXTERIOR)	120"
FIRE ALARM CONTROL PANEL/UNIT (DISPLAY)	60"
PULL STATIONS (HANDLE)	48"
VISIBLE APPLIANCES (CENTERLINE)	84"

ANNOTATION

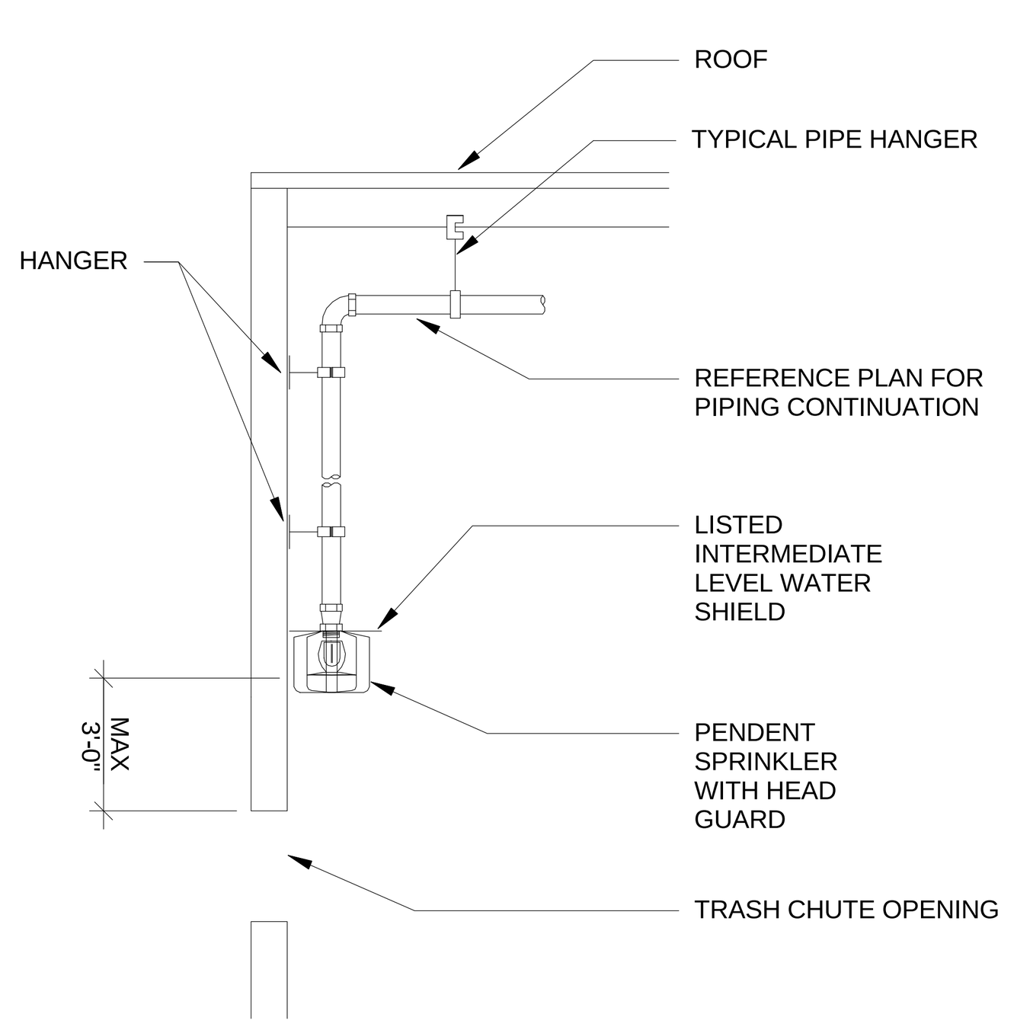
1	FIRE PROTECTION PLAN CALLOUT
	CONNECTION POINT OF NEW WORK TO EXISTING
1 / FP1	DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
1 / FP1	SECTION CUT DESIGNATION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AFG	ABOVE FINISHED GRADE	OC	ON CENTER
CD	CANDELA	PIV	POST INDICATOR VALVE
DI	DUCTILE IRON	PROVIDE	FURNISH AND INSTALL
ESFR	EARLY SUPPRESSION FAST RESPONSE	PRV	PRESSURE REDUCING VALVE
		RD	RETURN DUCT
ETR	EXISTING TO REMAIN	REV	REVISION
FHC	FIRE HOSE CABINET	SD	SUPPLY DUCT
FP	FIRE PROTECTION	SF	SQUARE FEET
GC	CONTRACTOR	TYP	TYPICAL
GPM	GALLONS PER MINUTE	UL	UNDERWRITERS LABORATORIES, INC.
JB	JUNCTION BOX		
MAX	MAXIMUM	UNO	UNLESS NOTED OTHERWISE
MIN	MINIMUM	V	VOLT(S)
N/A	NOT APPLICABLE	WP	WEATHERPROOF

WATER SUPPLY INFORMATION:

WATER SUPPLY INFORMATION IS NOT AVAILABLE AT THIS TIME. CONTRACTOR SHALL OBTAIN CURRENT WATER SUPPLY INFORMATION PRIOR TO BID SUBMITTAL.



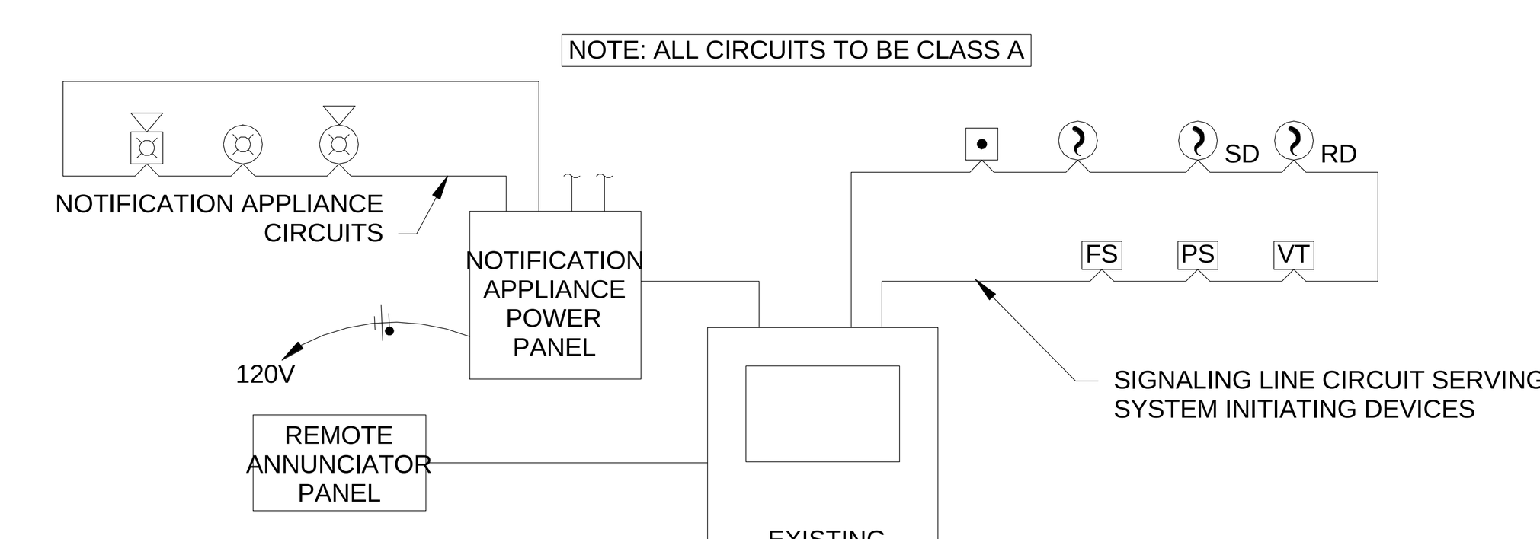
6 COMPACTOR SPRINKLER
NTS

PRIORITY: ALARM, SUPPLERVISORY → see table. SYSTEM OUTPUTS: A REPORT TO FIRE ALARM CONTROL PANEL; B SIGNAL SUPERVISING STATION; C ACTIVATE AUDIBLE/VISIBLE NOTIFICATION APPLIANCES; D ACTIVATE FDC NOTIFICATION APPLIANCE; E SHUTDOWN ASSOCIATED AIR HANDLING EQUIPMENT AND DAMPERS; F SHUTDOWN MONITORED AIR HANDLING EQUIPMENT

	SYSTEM INPUTS	ALARM	SUPERVISORY	TROUBLE	A	B	C	D	E	F	
1	MANUAL PULL STATION	●			●	●	●			●	1
2	SMOKE DETECTOR - SPOT TYPE	●			●	●	●			●	2
3	SMOKE DETECTOR - DUCT MOUNTED	●			●	●	●		●		3
4	WATERFLOW ALARM SWITCH	●			●	●	●	●		●	4
5	VALVE TAMPER SWITCH		●		●	●					5
6	FIRE DEPARTMENT KEY BOX VALVE TAMPER SWITCH (KNOX BOX)		●		●	●					6
7	KITCHEN HOOD SYSTEM	●			●	●	●			●	7
8	SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN			●	●	●					8
9	SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT			●	●	●					9
10	SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND			●	●	●					10
					A B		C	D E F			

SEQUENCE OF OPERATIONS INDICATED IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

5 FIRE ALARM MATRIX
NTS



RISER DIAGRAM IS SCHEMATIC IN NATURE. NOT ALL DEVICES ARE SHOWN. REFER TO PLANS FOR EQUIPMENT QUANTITIES AND LOCATIONS.

DUCT DETECTORS MAY HAVE INTEGRAL RELAYS FOR AIR HANDLING UNIT SHUT-DOWN AND FIRE/SMOKE DAMPER CONTROL. WIRING FOR THIS FUNCTION HAS NOT BEEN SHOWN. COORDINATE WITH MECHANICAL SYSTEM INSTALLER.

REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

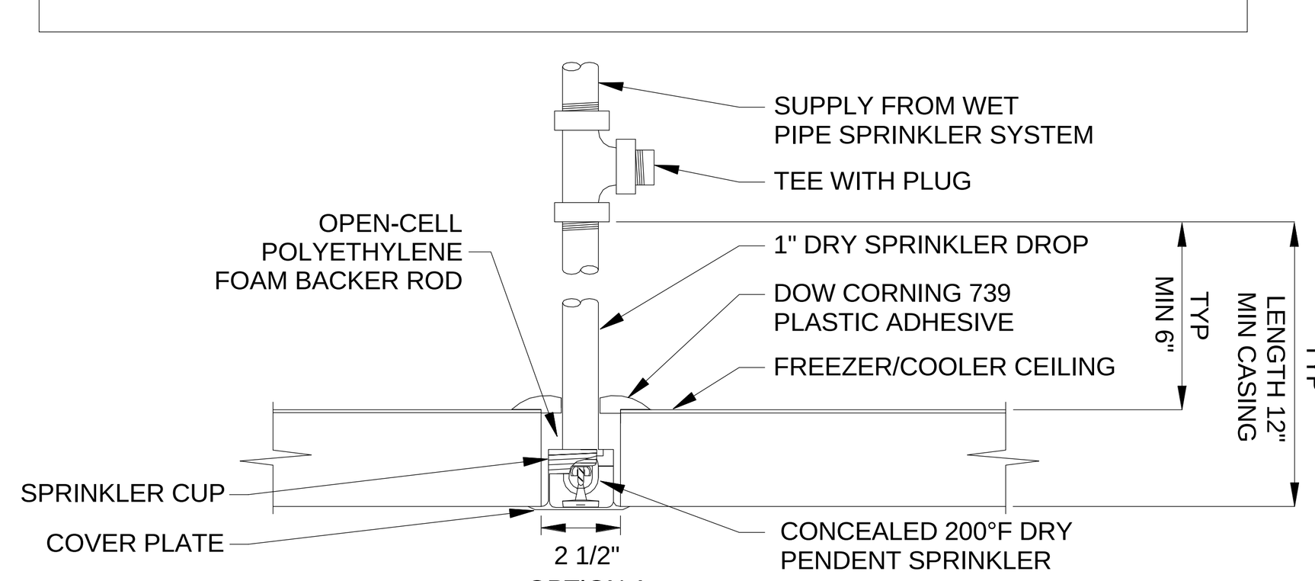
4 FIRE ALARM RISER DIAGRAM - ADDRESSABLE SYSTEM
NTS

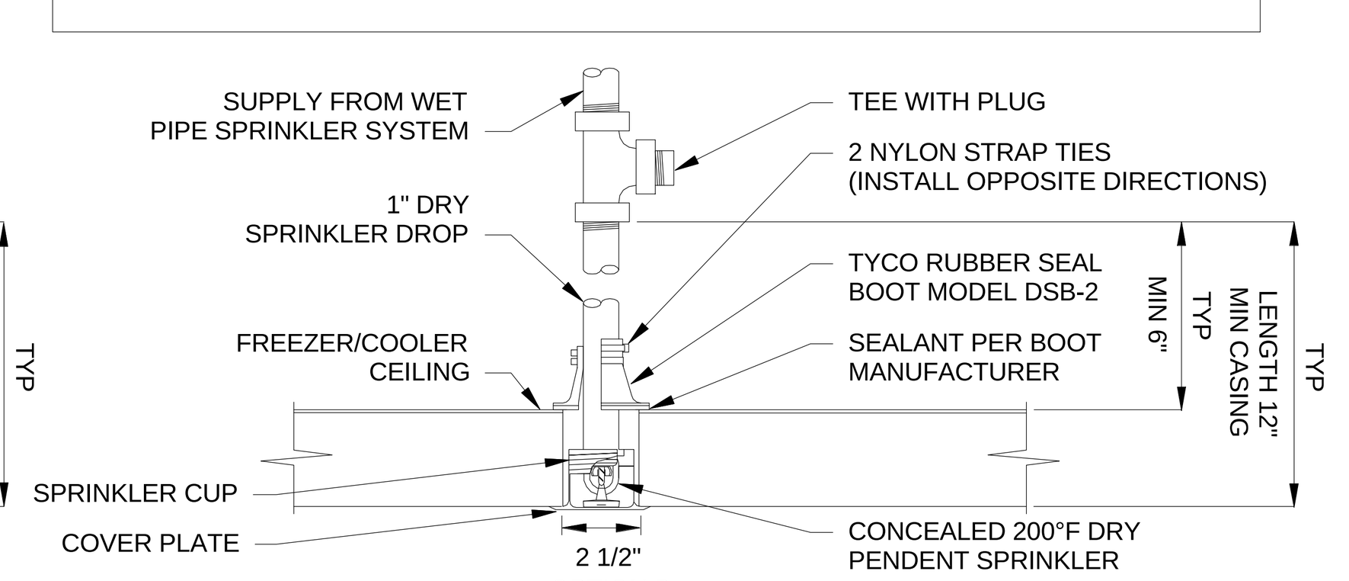
OPTION "A" INSTALLATION PROCEDURE

1. CORE DRILL 2 1/2" DIAMETER HOLE IN THE FREEZER/COOLER INSULATED CEILING PANEL. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS). MAINTAIN 6" CLEARANCE FROM COOLER SEAMS.
2. INSTALL DRY PENDENT SPRINKLER PER MANUFACTURERS INSTALLATION REQUIREMENTS.
3. COMPLETELY FILL ANNULAR CEILING OPENING BETWEEN THE ESCUTCHEON AND TOP OF CEILING PANEL WITH OPEN-CELL POLYETHYLENE FOAM BACKER ROD. EXPANDED FOAM IS NOT PERMITTED.
4. INJECT DOW CORNING 739 PLASTIC ADHESIVE SEALANT INTO AND AROUND THE TOP OF THE FREEZER/COOLER CEILING CORE OPENING IN ACCORDANCE WITH SEALANT MANUFACTURERS INSTRUCTIONS

OPTION "B" INSTALLATION PROCEDURE

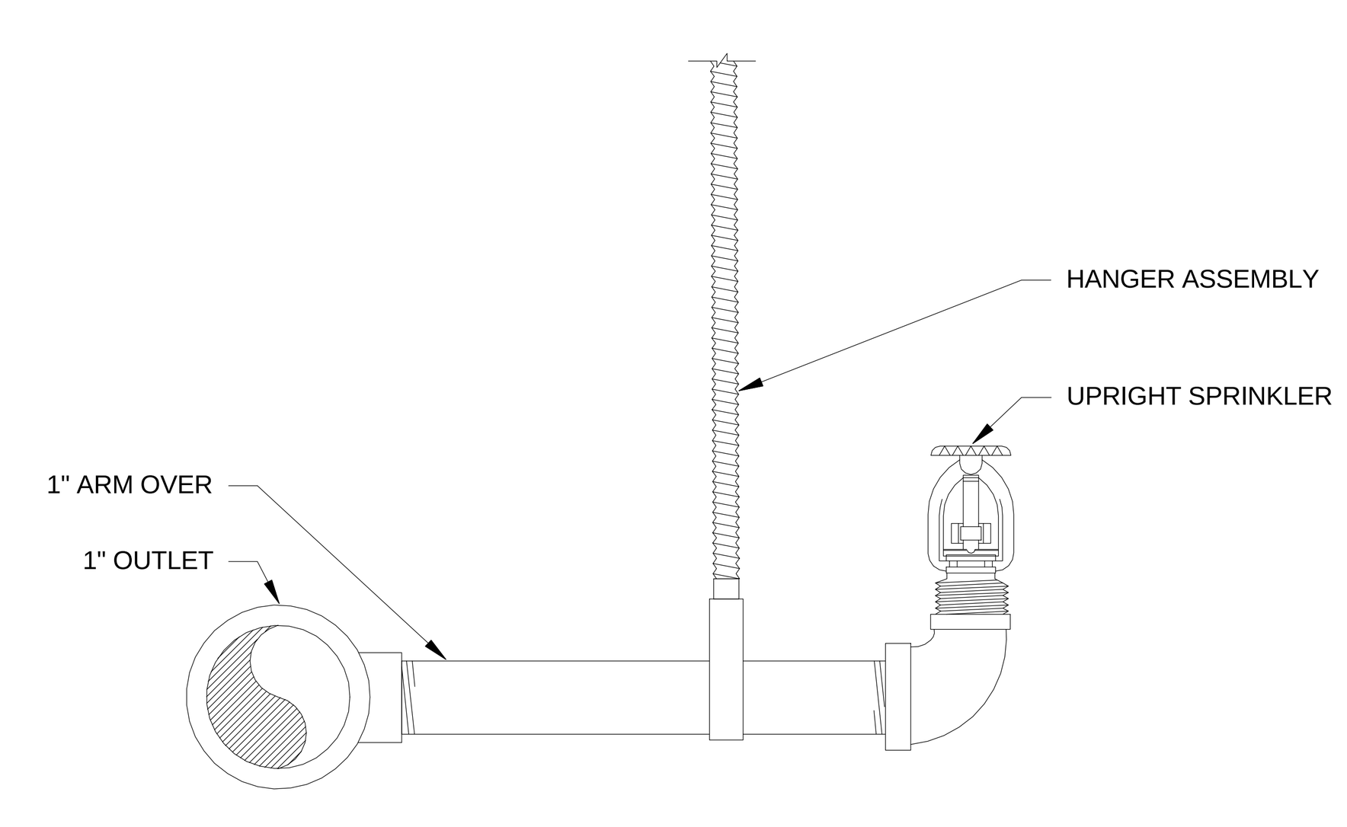
1. CORE DRILL 2 1/2" DIAMETER HOLE IN THE FREEZER/COOLER INSULATED CEILING PANEL FROM BELOW. LOCATE HOLE AND REQUIRED SPRINKLER PROTECTION IN ACCORDANCE WITH NFPA 13 OBSTRUCTION CRITERIA (SSP TYPE SPRINKLERS). MAINTAIN 6" CLEARANCE FROM COOLER SEAMS.
2. INSTALL TYCO DRY PENDENT SPRINKLER PER MANUFACTURERS INSTALLATION REQUIREMENTS. INSERT BOOT PRIOR TO MAKE-UP WITH PIPING.
3. COMPLETELY SEAL INTERFACE BETWEEN BOOT FLANGE AND TOP OF FREEZER/COOLER PANEL WITH ADHESIVE PROVIDED WITH BOOT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
4. APPLY STRAP TIES ON BOOT AROUND DRY SPRINKLER BARREL PER MANUFACTURERS INSTRUCTIONS.





NOTE: CONTRACTOR TO SEAL DRY PENDENT SPRINKLERS AT FREEZER/COOLER USING ONE OF THE OPTIONS ABOVE. NO OTHER SEALANTS ARE PERMITTED.

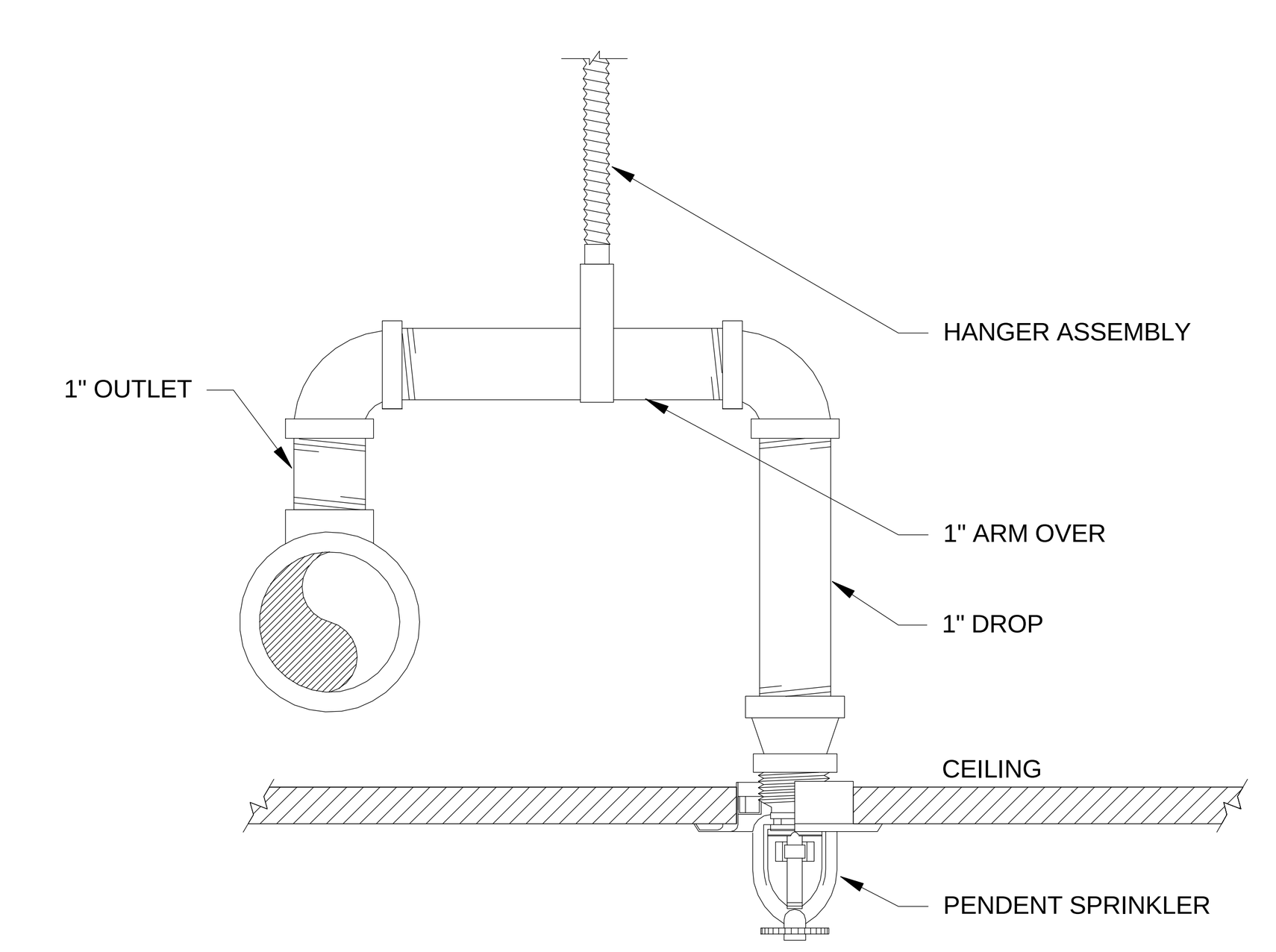
3 FREEZER-COOLER DRY PENDENT SPRINKLER
NTS



PROVIDE HANGER WHEN ARMOVER LENGTH EXCEEDS 24 INCHES.

ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

2 UPRIGHT SPRINKLER
NTS



PROVIDE HANGER ASSEMBLY THAT PREVENTS UPWARD MOVEMENT OF THE PIPE WHEN ARMOVER LENGTH EXCEEDS 12-INCHES AND SYSTEM STATIC PRESSURE AT THE SPRINKLER EXCEEDS 100 PSI. PROVIDE HANGER WHEN ARMOVER LENGTH EXCEEDS 24-INCHES AND SYSTEM STATIC PRESSURE AT THE SPRINKLER DOES NOT EXCEED 100 PSI.

ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS AND MEET APPLICABLE CODE REQUIREMENTS.

1 PENDENT SPRINKLER
NTS

brr
Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204
www.brrarch.com
Tel: 913-262-9095
Fax: 913-262-9044
Consultants
ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET

Project Name

365 BY WHOLE FOODS MARKET DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: Approver
Checked By:
Drawn by: Author
Document date: 01/26/18
Template date:
Project No. 62911019
Professional Seal

03/06/2018

Sheet Title
FIRE PROTECTION SYMBOLS, NOTES & DETAILS
Sheet No. FP000

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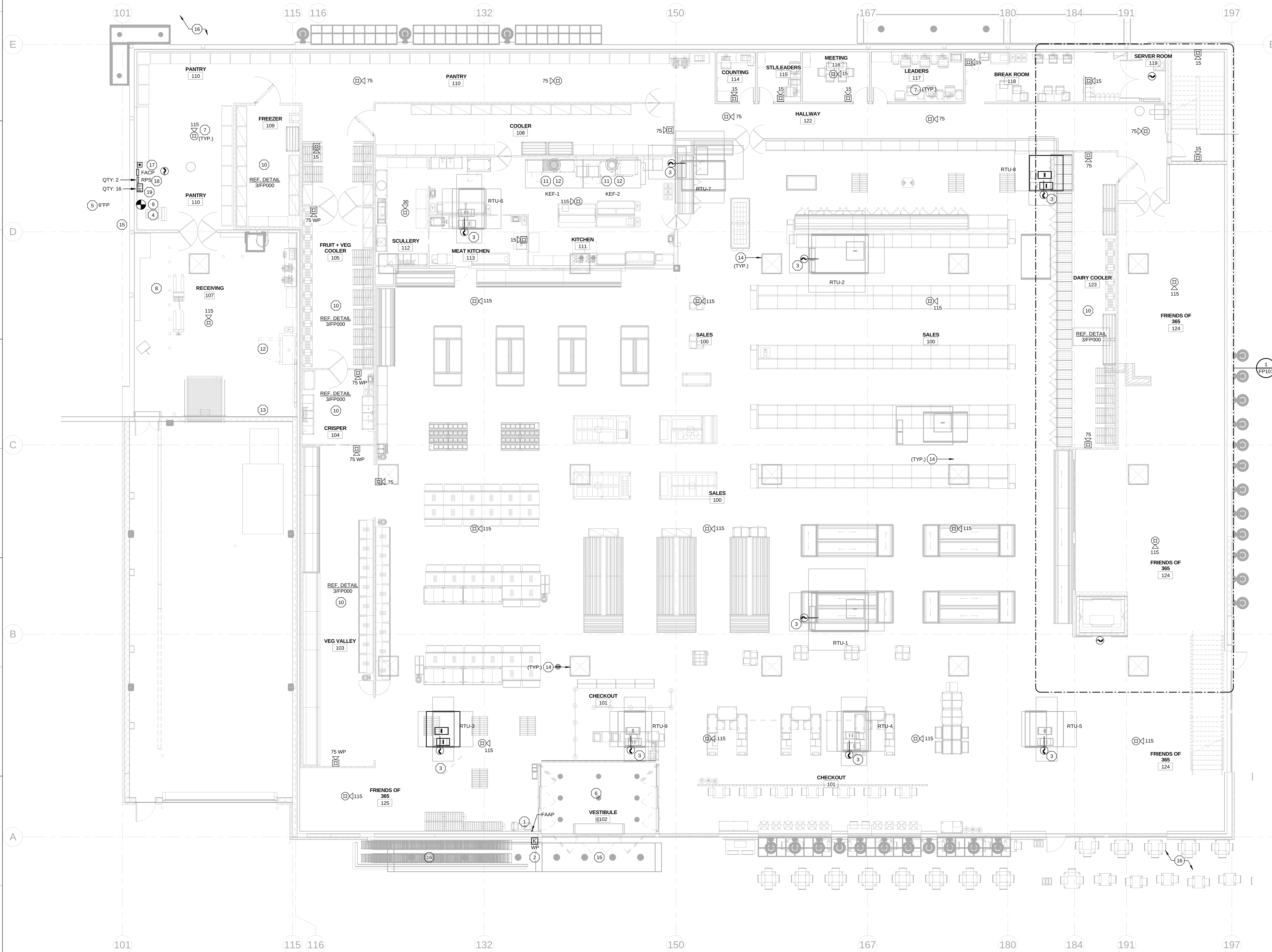

1 FIRE PROTECTION PLAN

1/8" = 1'-0"

FIRE PROTECTION KEYED NOTES

1. PROVIDE NEW REMOTE FIRE ALARM ANNUNCIATOR PANEL.
2. PROVIDE KNOX BOX FOR FIRE DEPARTMENT ACCESS. CONNECT TAMPER SWITCH TO FIRE ALARM CONTROL PANEL.
3. PROVIDE DUCT MOUNTED SMOKE DETECTOR FOR AIR HANDLING UNIT SHUTDOWN. REFER TO MECHANICAL SHEETS FOR AIR HANDLING UNIT AND DUCTWORK LAYOUT AND DETAILS.
4. EXISTING FIRE SPRINKLER RISER ASSEMBLY
5. EXISTING FIRE SPRINKLER SERVICE ENTRANCE. REFER TO CIVIL FOR CONTINUATION
6. COORDINATE SPRINKLER PIPING WITH MECHANICAL DUCTWORK TO CONCEAL PIPING SERVING VESTIBULE SPRINKLERS. SPRINKLER PIPING SHALL BE ROUTED BETWEEN DUCTWORK AND WALL.
7. MOUNT NOTIFICATION APPLIANCE TO BOTTOM OF JOIST OR AT 30 FT AFF, WHICHEVER IS LOWER, IN ACCORDANCE WITH NFPA 72 REQUIREMENTS.
8. DO NOT ROUTE SPRINKLER PIPING ABOVE ELECTRICAL PANELS.
9. CONNECT FIRE SPRINKLER MONITORING EQUIPMENT TO FIRE ALARM SYSTEM.
10. PROVIDE DRY PENDENT TYPE SPRINKLERS WITHIN COOLER/FREEZERS. REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION OF SPRINKLER AT COOLERS/FREEZERS WITH LIGHTS, EVAPORATORS AND OTHER OBSTRUCTIONS. NOTE THAT FINAL LIGHT AND EVAPORATOR LOCATIONS MAY DIFFER FROM THOSE SHOWN ON PLANS.
11. PROVIDE EQUIPMENT AND CONNECTION(S) REQUIRED TO MONITOR KITCHEN HOOD SUPPRESSION SYSTEM(S).
12. COORDINATE TEMPERATURE RATING OF SPRINKLERS NEAR HEAT PRODUCING SOURCES IN ACCORDANCE WITH NFPA 13 FOR ANTICIPATED AMBIENT CEILING TEMPERATURES.
13. PROVIDE SPRINKLER PROTECTION AS REQUIRED FOR TRASH COMPACTOR PER NFPA 13 REQUIREMENTS.
14. ROUTE SPRINKLER PIPING AROUND ALL SKYLIGHTS.
15. EXISTING FIRE DEPARTMENT CONNECTION.
16. ALL EXTERIOR CANOPY SPRINKLER PIPING SHALL BE BY LANDLORD.
17. EXISTING FIRE ALARM CONTROL PANEL AND EQUIPMENT.
18. PROVIDE REMOTE POWER SUPPLY TO POWER VISIBLE NOTIFICATION APPLIANCES. CONNECT TO FIRE ALARM SYSTEM. PROVIDE A SMOKE DETECTOR ABOVE THE POWER SUPPLY IN ACCORDANCE WITH NFPA 72
19. PROVIDE LOW VOLTAGE WIRING FROM DUCT DETECTOR TO REMOTE TEST STATION. MOUNT REMOTE TEST STATION AT 48" AFF.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
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Energy Squared Texas, LLC
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365 BY WHOLE FOODS MARKET

Project Manager: Approver
Checked By:
Drawn by: Author
Document date: 01/26/18
Template date:

Project No. 62911019

Professional Seal

03/06/2018

Sheet Title: FIRE PROTECTION PLAN

Sheet No. FP100

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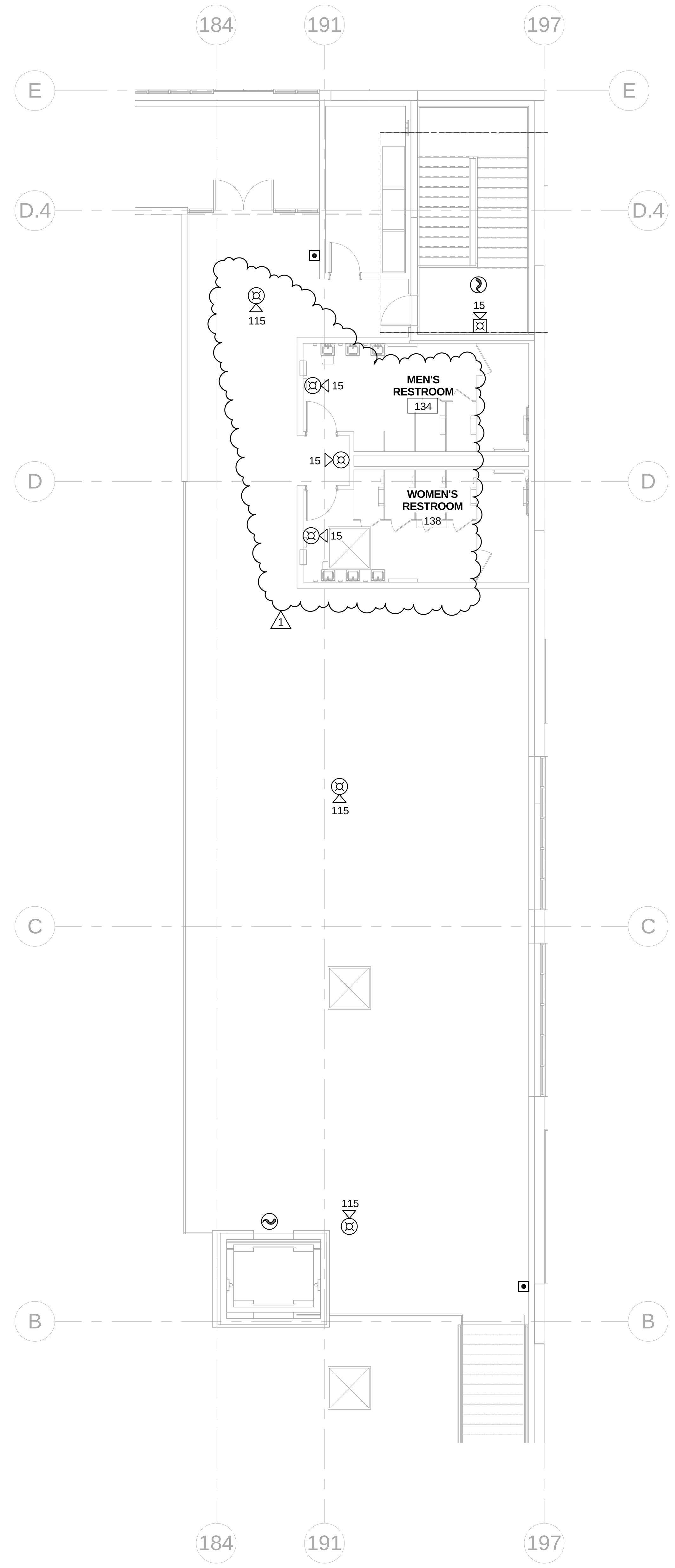

1 FIRE PROTECTION PLAN - MEZZANINE

1/8" = 1'-0"

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

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Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
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PH - (210) 510-2300 FAX - (210) 510-2319
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NO.	DATE	DESCRIPTION
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1	03/06/18	ADDENDUM 1

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Drawn by:
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Project No.
62911019

Professional Seal

03/06/2018

Sheet Title
FIRE PROTECTION PLAN - MEZZANINE

Sheet No.
FP101

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3/7/2018 1:08:32 PM

SPECIFICATIONS OF COLEMAN (INSTRUMENT) GRADE CO2:
MINIMUM PURITY OF CO2: 99.99%
NITROGEN, N2 < 50 PPM
OXYGEN, O2 < 20 PPM
WATER, H2O < 10 PPM

CO2 REFRIGERANT NOTES

1. COLEMAN GRADE CO2 (99.99% PURITY) IS TO BE USED.
2. INTRODUCTION OF LOWER-GRADE CO2 WITH PURITY LEVELS LESS THAN THOSE OF COLEMAN GRADE IS NOT RECOMMENDED DUE TO HIGHER MOISTURE CONTENT AND SHOULD ONLY BE DONE IN EMERGENCY SITUATIONS.
3. USE OF LOWER-GRADE CO2 MAY RESULT IN DECREASED SYSTEM PERFORMANCE AND REQUIRE SPECIFIC PROCEDURES TO PURGE NON-CONDENSABLE GASES FROM THE SYSTEM.
4. CO2 IS AVAILABLE IN BOTH LIQUID AND VAPOR FORM IN A VARIETY OF CYLINDER SIZES. USE ONLY HIGH PRESSURE CYLINDERS FOR THIS APPLICATION. THE MOST COMMON TYPES OF CO2 CYLINDERS ARE LISTED BELOW:
   a) HIGH-PRESSURE VAPOR CYLINDER, 50 LBS. OF CO2
   b) HIGH-PRESSURE LIQUID CYLINDER, 50 LBS. OF CO2
   c) LOW-PRESSURE LIQUID/VAPOR CYLINDER, 200 LBS. OF CO2 (THIS TYPE IS NOT APPLICABLE FOR USE WITH ADVANSOR SYSTEMS)
5. BREAKING THE VACUUM AND INITIAL SYSTEM PRESSURIZATION MUST BE PERFORMED USING VAPOR. FIELD EXPERIENCE HAS SHOWN THAT ONCE THIS HAS BEEN COMPLETED, THE REMAINDER OF THE CHARGING SHOULD BE PERFORMED USING HIGH-PRESSURE LIQUID TANKS.
6. SOME CO2 GAS SUPPLIERS OFFER A "CAP-CHARGE" OF HELIUM OR OTHER INERT GASES FOR LIQUID CYLINDERS WHICH INCREASES TANK PRESSURE IN ORDER TO SPEED THE CHARGING PROCESS. DO NOT ACCEPT ANY CYLINDERS WITH THIS CAP-CHARGE. USE ONLY CYLINDERS THAT ARE PURE CO2. USE OF CYLINDERS WITH A CAP-CHARGE IS LIKELY TO INTRODUCE LARGE AMOUNTS OF NON-CONDENSABLE GAS, RENDER THE SYSTEM INOPERABLE, AND REQUIRE PURGING, EVACUATION, AND RECHARGING OF THE ENTIRE SYSTEM.
7. TO DETERMINE IF A CYLINDER HAS A CAP-CHARGE, MEASURE THE TANK PRESSURE USING A REGULATOR AND COMPARE THIS WITH THE SATURATION PRESSURE AT THE APPROXIMATE STORAGE TEMPERATURE OF THE TANKS. TANKS WITH A CAP-CHARGE WILL HAVE A PRESSURE HIGHER THAN THE SATURATION PRESSURE.

NEW REFRIGERATION SYSTEM COMPONENT NOTES:

1. THE FOLLOWING EQUIPMENT AND COMPONENTS ARE TO BE FURNISHED BY 365, INSTALLED BY THE REFRIGERATION CONTRACTOR (EQUIPMENT FURNISHED BY 365 AS A PART OF THE REFRIGERATION EQUIPMENT PACKAGE):
   - COMPRESSOR RACKS
   - CONDENSERS
   - EVAPORATOR COILS
   - REFRIGERATED CASES FURNISHED WITH SPORLAN ELECTRONIC EXPANSION VALVES
   - REFRIGERATION VALVES (EX: TXV, LLSV, EPR, EEPR, COIL ISOLATION VALVES, CONDENSER SPLIT VALVES, CONDENSER PUMP- OUT VALVES, ETC.)
   - EVAPORATOR COIL/CASE TEMPERATURE SENSORS (TO BE INSTALLED BY DIVISION 26), REFER TO LECTRICAL/REFRIGERATION ENERGY MANAGEMENT DRAWINGS.
   - PRESSURE TRANSDUCERS AND TEMPERATURE SENSORS FOR CONDENSER CONTROL
   - REFRIGERATED CASES
2. THE FOLLOWING EQUIPMENT AND COMPONENTS ARE TO BE FURNISHED AND INSTALLED BY THE REFRIGERATION CONTRACTOR (BUT NOT LIMITED TO):
   - REFRIGERANT PIPING
   - INSULATION
   - SUB-LOOP ISOLATION VALVES
   - HANGERS AND SUPPORTS
   - REFRIGERANT
   - COMPRESSOR OIL
   - CONDENSATE PIPING
   - REFRIGERATION TUNNELS

GENERAL REFRIGERATION NOTES

1. PRIOR TO SUBMITTING THE BID, REVIEW THE COMPLETE SET OF PLANS AND SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.
2. COORDINATE THE INSTALLATION OF THE REFRIGERATION SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL PIPING AS TIGHT TO STRUCTURE AS POSSIBLE, COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF PIPING TO AVOID CONFLICTS WITH DUCTWORK, ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
3. AVOID DAMAGING FINISHED SURFACES AND EQUIPMENT DURING CONSTRUCTION. REPAIR DAMAGE CAUSED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
4. ALL REFRIGERATION EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED.
5. REFRIGERATION EQUIPMENT AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT PIPING WITHIN AVAILABLE SPACE ALLOWED. VERIFY EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
6. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE REFRIGERATION. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR PIPING.
7. GENERAL CONTRACTOR TO PROVIDE FURRING AROUND REFRIGERATION PIPING FROM FLOOR TO CEILING WHERE EXPOSED TO CUSTOMER VIEW.
8. ROUTE ALL UTILITY SERVICE LINES (PIPES AND CONDUIT) WITHIN STUD WALLS WHEREVER POSSIBLE. ON COOLER/FREEZER PANELS IN FOOD PREP AREAS WHERE UTILITIES MUST BE EXPOSED, CONTRACTOR TO HAVE THE OPTION OF THE FOLLOWING:
   - 8A. SURFACE MOUNT UTILITIES WITH NON-CORROSIVE ANCHORS; SEAL BOTH SIDES OF PIPE/CONDUIT TO PANEL CONTINUOUSLY WITH SEALANT.
   - 8B. INSTALL UTILITIES 1/2" OFF FACE OF PANEL TO ALLOW FOR CLEANING; USE ONLY NON-CORROSIVE MATERIALS FOR SPACERS AND ANCHORS.
   - 8C. COVER UTILITIES WITH 20 GAUGE STAINLESS STEEL BENT PLATES MOUNTED TO WALL WITH NON-CORROSIVE ANCHORS; APPLY CONTINUOUS SEALANT ALONG EDGES AND JOINTS.
9. COORDINATE LOCATION OF ROOF MOUNTED REFRIGERATION EQUIPMENT WITH OTHER EQUIPMENT, ROOF PENETRATIONS, AND ARCHITECTURAL AND STRUCTURAL DRAWINGS.
10. INSTALL REFRIGERANT PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.
11. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, ACCESSORIES, AND PIPING SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF.
12. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.
13. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.
14. PIPING CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE ENCLOSED IN 26 GAUGE SHEET METAL MINIMUM.
15. PROVIDE ACCESS PANELS FOR REFRIGERANT VALVING OR ACCESSORIES IN WALLS OR CEILINGS AS REQUIRED.
16. SLOPE REFRIGERANT LINES DOWN TOWARD COMPRESSORS AT 1" PER 20 FT. LOCATE HIGHEST POINT OF REFRIGERANT LINES JUST BELOW ROOF DECK OVER EVAPORATOR SERVED. ROUTE PIPING THROUGH WEBS IN JOISTS AND GIRDERS. COORDINATE WITH HVAC, LIGHTING, AND FIRE PROTECTION.
17. ALL VERTICAL SUCTION LINES MUST HAVE A SHORT RADIUS SUCTION LINE TRAP AT THE BASE OF THE RISER. PROVIDE AN INVERTED P-TRAP AT THE TOP OF ALL RISERS. REFER TO REFRIGERATION PIPING SCHEDULES FOR SIZES ON ALL RISERS.
18. SUCTION BASE P-TRAPS TO BE SAME SIZE AS HORIZONTAL RUNS. REDUCE AT THE TOP SIDE OF BASE P-TRAP. INTERMEDIATE AND INVERTED P-TRAPS SHOULD BE SAME SIZE AS REDUCED RISER.
19. FOR RISERS OVER 16'-0" INSTALL AN INTERMEDIATE SUCTION TRAP OUT OF CUSTOMER VIEW NEAR MIDPOINT OF RISER.
20. INSTALL A FULL PORT ISOLATION BALL VALVE UPSTREAM OF LIQUID LINE SOLENOID VALVE WITH BYPASS CHECK FOR EACH REFRIGERATION CIRCUIT.
21. LIQUID LINE SOLENOID AND FULL PORT ISOLATION BALL VALVES INSTALLED ON TOP OF WALK-IN WITH BYPASS CHECK SHALL BE INSULATED.
22. COORDINATE WALL AND/OR ROOF OPENINGS FOR REFRIGERATION LINES WITH ARCHITECTURAL AND STRUCTURAL.
23. PROVIDE DRAIN LINE FROM EACH CASE DRAIN SAME SIZE AS CASE OUTLET TO FLOOR DRAIN. TERMINATE WITH AIR GAP. REFER TO PLUMBING PLANS FOR DRAIN LOCATIONS.
24. INSTALL REFRIGERATION PIPING OVERHEAD WHERE POSSIBLE UNLESS OTHERWISE NOTED ON PLAN.
25. DO NOT INSTALL PIPING DIRECTLY UNDER SKYLIGHT WELLS, ABOVE ELECTRICAL PANELS, OR WITHIN COOLER/FREEZER PANELS.
26. EMS CONTRACTOR SHALL INSTALL OWNER FURNISHED LEAK DETECTION SYSTEM. DIVISION 23M SHALL INSTALL PARASENSE FURNISHED PIPING TEE AND PRESSURE TRANSDUCER TO SUCTION AND DISCHARGE HEADERS FOR LEAK DETECTION SYSTEM. COORDINATE LEAK DETECTION SYSTEM WITH EMS CONTRACTOR.
27. EMS CONTRACTOR TO SET ALL LOOSE REFRIGERATION EVAPORATOR COIL SENSORS.
28. EMS CONTRACTOR SHALL SET ALL REFRIGERATION EVAPORATOR COIL SENSORS OR THERMOSTATS AT LOCATIONS ON PLANS.
29. REFRIGERATION CONTRACTOR RESPONSIBLE FOR FINAL RACK CONTROLLER LABELING AND PROGRAMMING PER PARAMETERS ON REFRIGERATION SCHEDULES.
30. PROVIDE AND INSTALL CIRCUIT IDENTIFICATION TAGS FOR ALL CASE AND WALK-IN CIRCUITS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
31. REFRIGERATION CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDENSATE DRAINAGE PIPING FROM REFRIGERATION SYSTEM FREEZER AND COOLER EVAPORATOR UNITS TO FLOOR DRAINS WHERE INDICATED ON DRAWINGS. PROVIDE CLEANOUTS AT ALL MAJOR CHANGE OF DIRECTION IN PIPING SYSTEMS, PIPE HANGERS, AND FITTINGS AS REQUIRED FOR A COMPLETE DRAIN SYSTEM INSTALLATION. MINIMUM SIZE OF PIPING SHALL BE 3/4" COPPER TUBING. CONNECTIONS MADE AT EVAPORATOR UNIT SHALL BE INCREASED AS MULTIPLE EVAPORATORS ARE ADDED TO CONDENSATE MAIN. INSTALL ALL DRAINAGE PIPING HIGH AS POSSIBLE, WHILE MAINTAINING A PROPER FALL OF 1/8" PER 1'-0" MINIMUM. INSTALL DRAIN PIPING DOWN EXTERIOR FACE OF FREEZER OR COOLER BOX WALL TO CONDENSATE DRAIN WITH FUNNEL. TERMINATE PIPING OVER FLOOR RIM OF FUNNEL WITH CODE APPROVED AIR GAP. REFRIGERATION CONTRACTOR SHALL FURNISH AND INSTALL HEAT TRACE ON ALL INTERIOR FREEZER STORAGE CONDENSATE PIPING. ALL FREEZER/COOLER CASE CONDENSATION PIPING SHALL HAVE PIPING INSULATION INSTALLED BY REFRIGERATION CONTRACTOR. ALL PIPE PENETRATIONS THROUGH REFRIGERATED PANEL WALLS SHALL BE SEALED AIRTIGHT. ANY EVAPORATOR DRAIN SYSTEM NOT MEETING THESE REQUIREMENTS UPON FINAL INSPECTION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE WITH NO EXTRA COST TO OWNER.
32. REFRIGERATION CONTRACTOR SHALL FURNISH AND INSTALL ALL UNDERFLOOR REFRIGERATION PVC TUBES. INSTALL 8" PVC FOR SINGLE REFRIGERATION LINES AND 12" PVC FOR MULTIPLE REFRIGERATION LINES. COORDINATE WITH PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL TRENCH AND BACKFILL REFRIGERATION TUNNELS. REFER TO SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS. COORDINATE TO AVOID CONFLICTS WITH ALL OTHER TRADES' BELOW SLAB WORK. COORDINATE LOCATIONS WITH FINAL FIXTURE PLANS.
33. REFER TO DIVISION 20 SPECIFICATIONS FOR SEISMIC REQUIREMENTS.

REFRIGERATION SYMBOLS

PIPING

Symbol	Description
	ELBOW - TURNED DOWN
	ELBOW - TURNED UP
	ISOLATION VALVE
A01	LOAD DESIGNATION EXAMPLE
1A	LOOP DESIGNATION EXAMPLE
	REFRIGERATION PIPE FLOOR OR UNDERSLAB LEVEL
CD	CONDENSATE PIPING
	CONDENSATE PIPING
	WALK-IN EVAPORATOR COIL

ANNOTATION

Symbol	Description
A01 ABC	CIRCUIT DESIGNATION AND MODEL NUMBER EXAMPLE
1	REFRIGERATION PLAN NOTE CALLOUT
1 R300	DETAIL REFERENCE - UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER

ABBREVIATIONS

BV	BALL VALVE
CD	CONDENSATE
CO	CLEANOUT
DT	DUAL TEMPERATURE
EEPR	ELECTRONIC EVAPORATOR PRESSURE REGULATOR
EEV	ELECTRONIC EXPANSION VALVE
EOR	ENGINEER OF RECORD
EPR	EVAPORATOR PRESSURE REGULATOR
EX	FOR EXAMPLE
HR	HEAT RECLAIM
LLSV	LIQUID LINE SOLENOID VALVE
LSHX	LIQUID TO SUCTION HEAT EXCHANGER
LT	LOW TEMPERATURE
MFR	MANUFACTURER
MT	MEDIUM TEMPERATURE
OEM	365 EQUIPMENT MANUFACTURER
REF	REFER TO
SIM	SIMILAR
TXV	THERMOSTATIC EXPANSION VALVE
TYP	TYPICAL
WI	WALK-IN

REFRIGERATION CONDENSATE PIPE HEAT TAPE

REFRIGERATION CONTRACTOR TO PROVIDE SELF-REGULATING HEAT TAPE ON CONDENSATE PIPING IN COOLERS AND FREEZERS THAT MAINTAIN A TEMPERATURE OF LESS THAN 33 DEGREES FAHRENHEIT AS SHOWN. INSTALL HEAT TAPE ACCORDING TO MANUFACTURERS INSTRUCTIONS INCLUDING BUT NOT LIMITED TO LENGTH OF HEAT TAPE, ATTACHMENT OF HEAT TAPE TO CONDENSATE PIPING, AND POWER CONNECTIONS.

120V INPUT, 5 WATTS PER LINEAR FOOT, POLYOLEFIN JACKET

MANUFACTURER	MODEL NUMBER
RAYCHEM (TYCO THERMAL)	XL-TRACE SERIES
DELTA-THERM CORP	C0 SERIES

SEISMIC CONTROLS FOR MEPF SYSTEMS:

SEISMIC PROTECTION CRITERIA:

RISK/OCCUPANCY CATEGORY:	I, II, OR III
SITE SOIL CATEGORY:	CONTRACTOR'S SEISMIC ENGINEER TO DETERMINE
SEISMIC DESIGN CATEGORY:	D
COMPONENT IMPORTANCE FACTOR:	DETERMINED FROM ASCE 7-2010

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE REQUIREMENTS FOR SEISMIC BRACING OF MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. SEISMIC PROTECTION CRITERIA USED TO DETERMINE SEISMIC BRACING REQUIREMENTS OF ALL MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS SHALL BE DETERMINED BY THE APPLICABLE CODE ADOPTED IN THE PROJECT JURISDICTION. WHERE NOT ALREADY DETERMINED WITHIN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTRACTING A LICENSED PROFESSIONAL ENGINEER TO ESTABLISH BUILDING SITE CLASS, SEISMIC DESIGN CATEGORY, SEISMIC ZONE OR ANY OTHER CRITERIA NECESSARY TO DETERMINE THE REQUIREMENTS FOR SEISMIC BRACING ON MECHANICAL, ELECTRICAL AND/OR PLUMBING SYSTEMS.

SEISMIC BRACING OF FIRE PROTECTION SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PROVISIONS OF NFPA 13 (2010 OR LATER EDITION).

THE CONTRACTOR SHALL DETERMINE THE TYPE AND LOCATION OF SEISMIC BRACING REQUIRED FOR THE MECHANICAL ELECTRICAL AND PLUMBING ELEMENTS SHOWN ON THE DRAWINGS BASED ON THE ESTABLISHED SEISMIC CRITERIA, THE SIZE AND WEIGHT OF THE SUPPORTED ELEMENT AND THE DISTANCE FROM STRUCTURE OF THE SUPPORTED ELEMENT.

THE CONTRACTOR SHALL SUBMIT THE FOLLOWING SHOP DRAWING INFORMATION TO THE AUTHORITY HAVING JURISDICTION AND THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL: (1) SEISMIC ANALYSIS LISTING ALL APPLICABLE SEISMIC DESIGN CRITERIA (2) DESCRIPTIVE CATALOG DATA OF SEISMIC BRACING MATERIALS, (3) SHOP DRAWINGS SHOWING BRACING TYPE AND LOCATION, (4) INSTALLATION DETAILS OF ALL BRACING USED AND (5) CALCULATIONS SHOWING THAT THE SEISMIC RESTRAINTS MEET THE SEISMIC REQUIREMENTS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC BRACING PRODUCTS. CALCULATIONS SHALL INCLUDE DEAD LOADS, STATIC SEISMIC LOADS AND CAPACITY OF MATERIALS UTILIZED FOR CONNECTIONS.

SEISMIC BRACING, RESTRAINTS, ISOLATORS, AND ISOLATION MATERIALS SHALL BE OF THE SAME MANUFACTURER AND SHALL BE CERTIFIED BY THE MANUFACTURER. APPROVED MANUFACTURERS ARE: AMBER/BOOTH COMPANY, INC., KINETICS NOISE CONTROL, INC., LOOS & COMPANY, INC., MASON INDUSTRIES, INC., UNI-STRUT, VIBRO-ACOUSTICS, OR B-LINE/TOLCO. EACH DEVICE SHALL HAVE A PRE-APPROVAL NUMBER FROM CALIFORNIA OSHPD OR OTHER RECOGNIZED GOVERNMENT AGENCY SHOWING MAXIMUM RESTRAINT RATINGS.

SEISMIC BRACING MEASURES TO BE APPLIED TO MECHANICAL/ELECTRICAL/PLUMBING EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND/OR FEDERAL CODES AS WELL AS MANUFACTURER'S REQUIREMENTS. THE MOST STRINGENT CRITERIA SHALL APPLY. ALL ANCHOR CONNECTIONS TO STRUCTURE FOR SUPPORT OF MECHANICAL AND ELECTRICAL EQUIPMENT, REGARDLESS OF THE NEED FOR SEISMIC RESTRAINTS, SHALL BE SHOWN ON SHOP DRAWINGS.

brr

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BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
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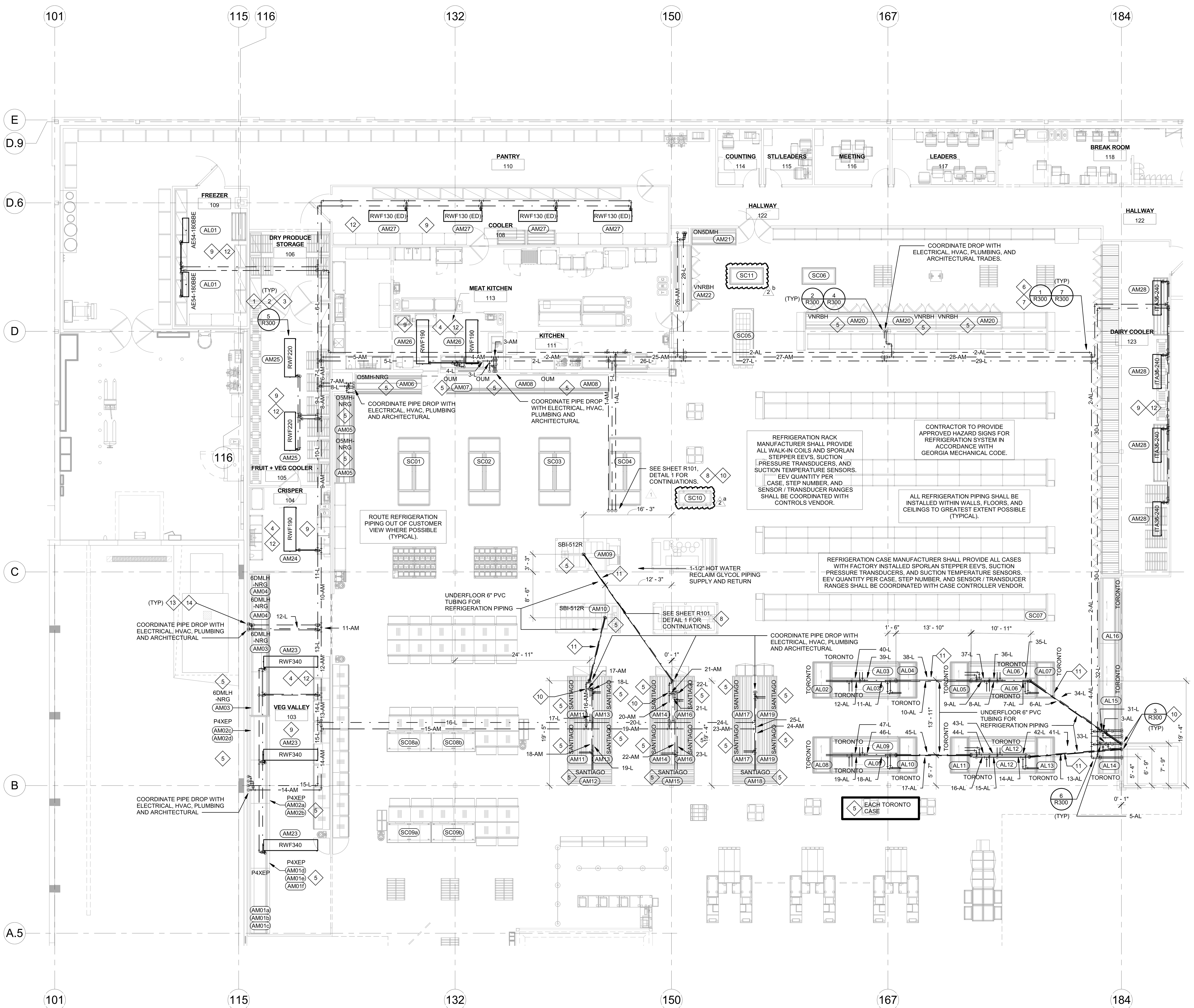
Sheet Title
REFRIGERATION SYMBOLS & NOTES

Sheet No.
R000

3/6/2018 6:42:33 PM

REFRIGERATION NOTES:

1. SUPPORT EVAPORATORS WITH BOLTS THROUGH ROOF TO 1-5/8" X 1-5/8" X 10' LONG 14 GA. GALVANIZED UNISTRUT SPANNING THREE ROOF PANELS. PROVIDE DOUBLE NUTS ON EACH BOLT.
2. PROVIDE AIRTIGHT SEAL AROUND ALL PIPING AND BOLT PENETRATIONS THROUGH COOLER / FREEZER BOX WALLS OR CEILINGS.
3. SEE REFRIGERATION SCHEDULE FOR EVAPORATOR TYPES, SIZES, AND CAPACITIES; CONTROL METHOD; AND ALL REFRIGERATION PIPING SIZES, ETC..
4. PROVIDE INSULATION AND 0.020" PVC JACKET ON ALL REFRIGERATION AND CONDENSATE PIPING IN PREP AREAS.
5. INSTALL LIQUID LINE SOLENOID AND 365 FURNISHED CIRCUIT SUPPLY AND RETURN VALVE STATIONS IN CASE DRAIN PAN. REFER TO CO2 BYPASS ASSEMBLY DETAIL.
6. SLOPE REFRIGERANT LINES BACK TO COMPRESSORS AT 1" PER 20' OF RUN. LOCATE HIGHEST POINT OF REFRIGERATION LINES JUST BELOW BOTTOM CHORD OF JOIST OR BEAM. COORDINATE ELEVATION TO AVOID CONFLICTS WITH DUCTWORK, LIGHTING, SKYLIGHTS, ETC..
7. SUPPORT HORIZONTAL RUNS OF REFRIGERANT LINES ON 1-5/8" X 1-5/8" UNISTRUT CHANNELS ON MAXIMUM OF 6 FOOT CENTERS.
8. COORDINATE WALL AND / OR ROOF OPENINGS FOR REFRIGERANT LINES WITH ARCHITECTURAL & STRUCTURAL.
9. PLUMBING CONTRACTOR TO PROVIDE CONDENSATE DRAIN LINES AND SIZE PER COIL MANUFACTURER RECOMMENDATIONS. ROUTE ALL DRAIN LINES TO FLOOR SINK OR FLOOR DRAIN WITH AIR GAP PER LOCAL CODE. SEE PLUMBING SHEETS FOR ROUTING REQUIREMENT.
10. INSTALL VERTICAL SUCTION DOUBLE RISER IN THIS LOCATION. REFER TO VERTICAL SUCTION DOUBLE RISER DETAIL AND PIPING SCHEDULES FOR SIZES.
11. ROUTE PIPING IN PVC TUNNEL BELOW FLOOR. COORDINATE WITH GENERAL CONTRACTOR.
12. INSTALL LIQUID LINE SOLENOID AND 365 FURNISHED CIRCUIT SUPPLY AND RETURN VALVE STATIONS ON TOP OF WALK-IN BOX. REFER TO CO2 BYPASS ASSEMBLY DETAIL.
13. FOR RISERS OVER 16'-0" INSTALL AN INTERMEDIATE SUCTION TRAP OUT OF CUSTOMER VIEW NEAR MIDPOINT OF RISER.
14. AT ALL POINTS WHERE SUCTION LINES RISE, PROVIDE A SUCTION LINE TRAP AT THE BASE OF THE RISER.



1 REFRIGERATION DESIGNATION PLAN

1/8" = 1'-0"

PIPING SCHEDULE - RACK AL / AM SUCTION LOOPS

PIPE DESIGNATION	HORIZONTAL SUCTION	VERTICAL SUCTION RISER AS REQUIRED	ESTIMATED TOTAL LENGTH**
1-AL	1 1/8	1/2 & 5/8	59
AL01	5/8	5/8	106
AL01a	1/2	1/2	12
AL01b	1/2	1/2	12
2-AL	7/8	5/8*	144
3-AL	1/2	1/2*	3
AL15	1/2	3/8	38
AL16	1/2	3/8	40
4-AL	5/8	1/2*	16
AL14	1/2	3/8	36
5-AL	7/8	1/2*	3
6-AL	1/2	1/2	50
AL07	1/2	1/2*	12
7-AL	1/2	1/2*	8
AL06	1/2	1/2*	21
8-AL	1/2	1/2*	2
AL05	1/2	1/2*	8
9-AL	1/2	1/2*	17
AL04	1/2	1/2*	12
10-AL	1/2	1/2*	8
AL03	1/2	1/2*	22
AL02	1/2	1/2*	8
11-AL	1/2	1/2	48
AL13	1/2	1/2*	12
12-AL	1/2	1/2*	8
AL12	1/2	1/2*	22
13-AL	1/2	1/2*	2
AL11	1/2	1/2*	8
14-AL	1/2	1/2*	17
AL10	1/2	1/2*	12
15-AL	1/2	1/2*	8
AL09	1/2	1/2*	22
AL08	1/2	1/2*	8
1-AM	2 1/8	7/8 & 1 1/8	58
2-AM	2 1/8	1 3/8*	21
AM08	1/2	3/8	47
3-AM	2 1/8	1 1/8*	1
AM07	1/2	3/8	36
4-AM	2 1/8	1 1/8*	6
AM26	5/8	1/2	12
AM26a	1/2	3/8	14
AM26b	1/2	3/8	14
5-AM	1 5/8	1 1/8*	27
AM27-1	5/8	1/2	55
AM27a	1/2	3/8	8
AM27-2	1/2	1/2*	14
AM27b	1/2	3/8	8
AM27-3	1/2	1/2*	14
AM27c	1/2	3/8	8
AM27d	1/2	3/8	22
6-AM	1 5/8	1 1/8*	5
7-AM	5/8	1/2*	5
AM05	1/2	3/8	40
AM06	1/2	3/8	37
8-AM	1 5/8	1 1/8*	7
AM-25	5/8	1/2	14
AM25a	1/2	3/8	16
AM25b	1/2	3/8	16
9-AM	1 3/8	1 1/8*	25
AM24	1/2	3/8	26
10-AM	1 3/8	7/8*	14
AM04	1/2	3/8	49
11-AM	1 5/8	7/8*	1
AM03	1/2	3/8	53
12-AM	1 3/8	7/8*	13
AM23-1	1 1/8	7/8	22
AM23a	1/2	3/8	12
AM23-2	7/8	5/8*	13
AM23b	1/2	3/8	8
AM23c	1/2	3/8	24
13-AM	7/8	5/8*	7
14-AM	5/8	1/2*	24
AM01	1/2	3/8	36
AM02	1/2	3/8	29
15-AM	5/8	1/2*	49
16-AM	1/2	1/2*	8
AM10	1/2	3/8	43
17-AM	1/2	3/8 & 3/8	27
AM13	1/2	1/2*	15
18-AM	1/2	1/2*	11
AM11	1/2	1/2*	16
AM12	1/2	1/2*	8
19-AM	1/2	1/2*	16
20-AM	1/2	1/2*	7
AM09	1/2	3/8	58
21-AM	1/2	3/8 & 3/8	28
AM16	1/2	1/2*	18
22-AM	1/2	1/2*	11
AM14	1/2	1/2*	18
AM15	1/2	1/2*	13
23-AM	1/2	3/8 & 3/8	49
AM19	1/2	1/2*	16
24-AM	1/2	1/2*	25
AM17	1/2	1/2*	25
AM18	1/2	1/2*	14
25-AM	7/8	5/8*	13
26-AM	1/2	3/8	42
AM21	1/2	1/2*	21
AM22	1/2	1/2*	17
27-AM	7/8	5/8*	40
AM20	1/2	1/2*	27
AM28-1	7/8	5/8	62
AM28-2	5/8	1/2*	1
AM28a	1/2	3/8	20
AM28b	1/2	3/8	6
AM28-3	5/8	1/2*	14
AM28c	1/2	3/8	6
AM28d	1/2	3/8	20

* RISER SIZE IS SHOWN EVEN WHERE A RISER IS NOT EXPECTED. THIS IS FOR REFERENCE ONLY AND TO BE USED IN THE EVENT THAT A PIPNG CONFLICT CAUSES THE NEED FOR A RISER. IF RISER LENGTH EXCEEDS 4 FEET, IT MUST BE APPROVED BY ENGINEER OF RECORD.

**ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS. THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY.

TWO LISTED SIZES INDICATES A VERTICAL SUCTION DOUBLE RISER.

PIPING SCHEDULE - COMMON LIQUID LOOP

PIPE DESIGNATION	LIQUID	ESTIMATED TOTAL LENGTH**
1-L	2 1/8	57
2-L	2 1/8	23
3-L	1/2	1
B07	1/2	34
B08	1/2	47
4-L	1 5/8	6
AM26	5/8	11
B26a	1/2	11
B26b	1/2	11
5-L	1 5/8	26
6-L	7/8	18
AL01	1/2	36
AL01a	1/2	11
AL01b	1/2	11
AM27-1	5/8	38
B27a	1/2	7
AM27-2	1/2	14
B27b	1/2	7
AM27-3	1/2	14
B27c	1/2	7
B27d	1/2	21
7-L	1 5/8	5
8-L	5/8	6
B05	1/2	36
B06	1/2	40
9-L	1 3/8	6
AM25	1/2	14
B25a	1/2	14
B25b	1/2	14
10-L	1 3/8	25
B24	1/2	20
11-L	1 3/8	15
12-L	1/2	13
B03	1/2	40
B04	1/2	36
13-L	1 3/8	13
AM23-1	1 1/8	26
B23a	5/8	11
AM23-2	7/8	13
B23b	5/8	7
B23c	5/8	24
14-L	7/8	6
15-L	5/8	24
B01	1/2	53
B02	1/2	34
16-L	5/8	44
17-L	1/2	7
B10	1/2	46
18-L	1/2	22
B13	1/2	22
19-L	1/2	12
B11	1/2	24
B12	1/2	17
20-L	1/2	16
21-L	1/2	6
B09	1/2	60
22-L	1/2	23
B16	1/2	21
23-L	1/2	10
B14	1/2	21
B15	1/2	15
24-L	1/2	42
B19	1/2	23
25-L	1/2	11
B17	1/2	22
B18	1/2	18
26-L	1 1/8	14
27-L	1 1/8	38
B20	1/2	32
29-L	7/8	40
AM28-1	7/8	14
B28a	1/2	2
AM28-2	5/8	16
B28b	1/2	2
AM28-3	5/8	13
B28c	1/2	2
B28d	1/2	15
30-L	5/8	54
31-L	1/2	2
AL15	1/2	13
AL16	1/2	18
32-L	1/2	16
33-L	1/2	2
34-L	1/2	23
AL07	1/2	13
35-L	1/2	6
AL06a	1/2	10
36-L	1/2	2
AL06b	1/2	11
37-L	1/2	2
AL05	1/2	9
38-L	1/2	17
AL04	1/2	13
39-L	1/2	6
AL03a	1/2	10
40-L	1/2	2
AL03b	1/2	13
AL02	1/2	12
41-L	1/2	21
AL13	1/2	14
42-L	1/2	5
AL12a	1/2	10
43-L	1/2	2
AL12b	1/2	13
44-L	1/2	2
AL11	1/2	14
45-L	1/2	17
AL10	1/2	14
46-L	1/2	6
AL09a	1/2	10
47-L	1/2	2
AL09b	1/2	13
AL08	1/2	12
AL14	1/2	17
28-L	1/2	24
B21	1/2	13
B22	1/2	18

**ESTIMATED TOTAL LENGTH INCLUDES HORIZONTAL AND VERTICAL PIPE SECTIONS.

THIS IS ONLY AN ESTIMATE AND ACTUAL LENGTH WILL VARY.

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
1	03/06/18	Addendum #1
2	05/21/18	Addendum #2

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

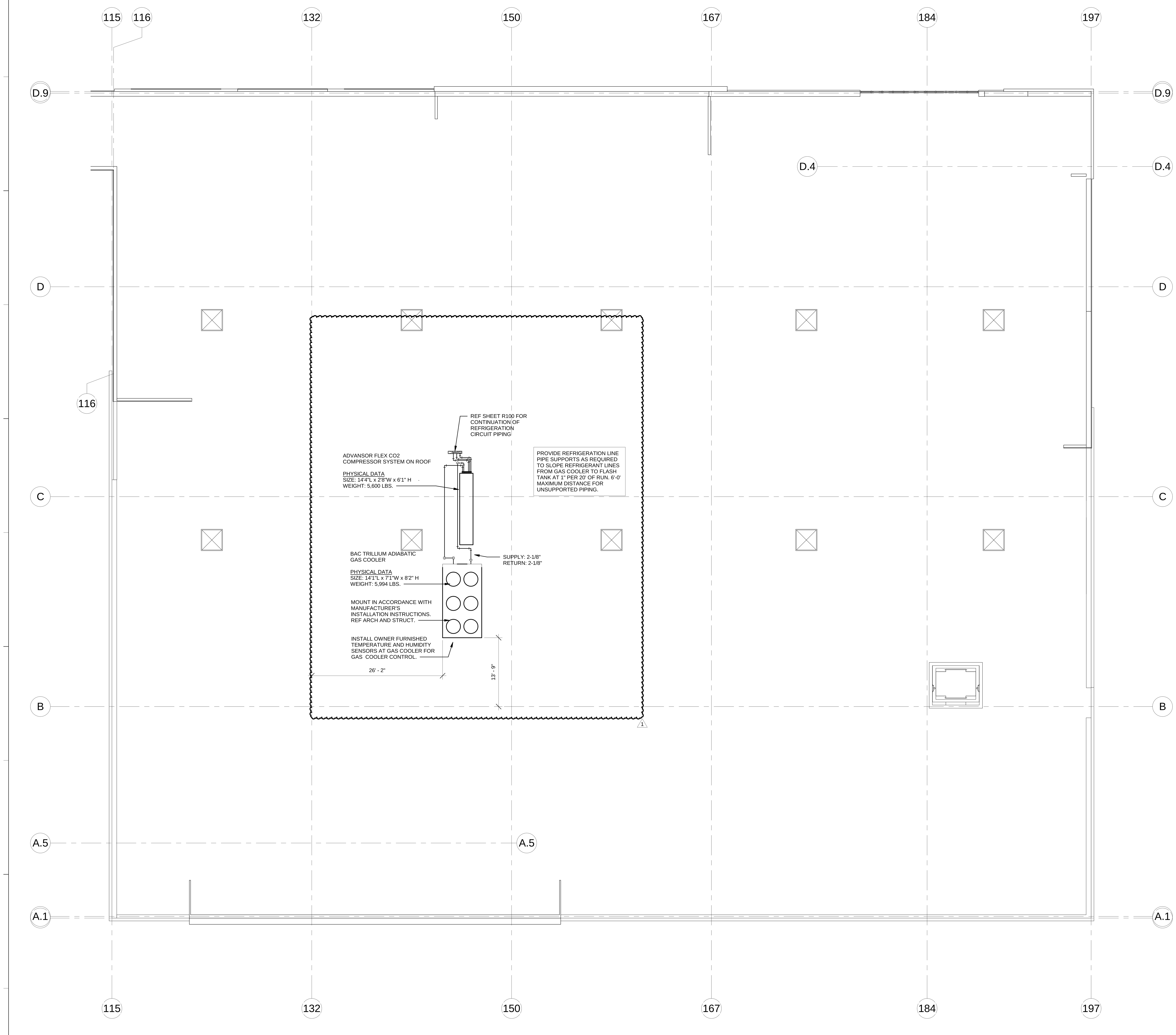
365 BY WHOLE FOODS MARKET

Project Manager: JCS
Checked By:
Drawn by: JCS
Document date: 05/21/18
Template date:
Project No. 62911019
Professional Seal

Sheet Title: REFRIGERATION PLAN

Sheet No. R100

5/21/2018 1:41:11 PM



1 CO2 REFRIGERATION ROOF PLAN

1/8" = 1'-0"

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brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas
Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET
1	03/06/18	ADDENDUM 1

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

Project Manager: JCS

Checked By:

Drawn by: JCS

Document date:

Template date:

Project No. 62911019

Professional Seal

03/06/2018

Sheet Title
REFRIGERATION ROOF PLAN

Sheet No. R101

REFRIGERATION EQUIPMENT SCHEDULE - 365 BY WHOLE FOODS MARKET - DECATUR, GA

COMPRESSOR UNIT DATA

UNIT DESIGNATION	COMPRESSOR	CAPACITY (MBH)	THR (MBH)	KW	COMP RPM	EER	FLA 460/3/60 (AMPS)
COMPRESSOR SYSTEM 'A' (LOW TEMPERATURE SUCTION GROUP 'AL')							
GROUP #1							
A1	2HSL-3-4SU	36.30	44.01	2.3	1750	16.06	6.0
A2	2HSL-3-4SU	36.30	44.08	2.3	1750	16.06	6.0
	TOTAL CAPACITY	72.60	88.09	4.5			12.0
	PERCENT SPARE	0.05%					
	TOTAL REQUIRED	69.22					

GENERAL INFORMATION

NOTE: COMPRESSOR 'AL1' TO BE CONTROLLED BY AN ECOSPEED VFD

GROUP #1 --> Tsuction = -22°F / Tcondensing = 21°F / Tliquid = 27.1°F / R-744

RETURN GAS TEMPERATURE: 30°F

CONTROL VOLTAGE: 120/1/60

UNIT DESIGNATION	COMPRESSOR	CAPACITY (MBH)	THR (MBH)	KW	COMP RPM	EER	FLA 460/3/60 (AMPS)
COMPRESSOR SYSTEM 'A' (MEDIUM TEMPERATURE SUCTION GROUP 'AM')							
GROUP #2							
AM1	4CTC-30-2NU	276.40	389.79	33.0	1750	8.39	62.6
AM2	4CTC-30-2NU	276.40	389.79	33.0	1750	8.39	62.6
AM3	4CTC-30-2NU	276.40	389.79	33.0	1750	9.97	62.6
	TOTAL CAPACITY	829.20	1169.37	98.9			187.8
	PERCENT SPARE	0.36%					
	TOTAL REQUIRED	608.26					

GENERAL INFORMATION

GROUP #1 --> Tsuction = 21°F / Tcondensing = 90°F / Tliquid = 35.0°F / R-744

NOTE: COMPRESSOR 'AM1' TO BE CONTROLLED BY AN ECOSPEED VFD

RETURN GAS TEMPERATURE: 61°F

CONTROL VOLTAGE: 120/1/60

REFRIGERATION CIRCUIT DATA / ACCESSORIES DATA / ELECTRICAL DATA

TRANSCRITICAL CO2 SYSTEM MOUNTED IN ADVANSOR FLEX ENCLOSURE

CKT #	LINE-UP	CUTSHEET NUMBER	MANUFACTURER'S MODEL NUMBER	DESCRIPTION	REFRIG LOAD (MBh)	EVAP TEMP (°F)	DESIGN ROOM / DISCHARGE AIR TEMP (°F)	365 TEMPERATURE PARAMETERS (°F)	CALCULATED ROOM TEMP (°F)	TXV / DISTRIBUTOR NOZZLE	DX CONTROL VALVE	DEFROST TERMINATION CONTROL	REFRIG.	DEFROST TYPE	CKT #	CONDENSATE LINE HEAT TRACE REQUIREMENT	FIXT. LIGHT AMPS PER CIRCUIT 120V/1ph	EVAP. FAN AMPS PER CIRCUIT (VOLTAGE INDICATED)	ANTI-SWEAT HEATER AMPS PER CIRCUIT 120V/1ph	DEFROST HEATER AMPS (VOLTAGE INDICATED)	MISCELLANEOUS AMPS 115V/1ph
SYSTEM 'AL' CIRCUITS																					
AL01	26' x 14' x 10'	---	(2) RUSSELL AE54-180B	GROCERY / ICE CREAM FREEZER	24.80	-20	-10	---	-13			SENSOR	R744	ELECTRIC	AL01	YES	-----	5.0 @ 208/1/60	-----	39.2 A @ 208/1/60	-----
AL02	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL02	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL03	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN ISLAND	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL03	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
AL04	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL04	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL05	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL05	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL06	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN ISLAND	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL06	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
AL07	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL07	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL08	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL08	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL09	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN ISLAND	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL09	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
AL10	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL10	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL11	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL11	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL12	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN ISLAND	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL12	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
AL13	6 FT	8-009	ARNEG TORONTO	LOW TEMP COFFIN END	1.41	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL13	-----	0.1	0.6 @ 120/1/60	1.2	5.61 A @ 208/1/60	-----
AL14	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN (AT FRIENDS OF 365)	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL14	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
AL15	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN (AT FRIENDS OF 365)	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL15	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
AL16	12 FT	8-010	ARNEG TORONTO	LOW TEMP COFFIN (AT FRIENDS OF 365)	4.74	-17	-12	-10	---			SENSOR	R744	ELECTRIC	AL16	-----	0.5	1.8 @ 120/1/60	2.7	23.58 A @ 208/1/60	-----
SYSTEM 'AM' CIRCUITS																					
AM01	24 FT	1-018	HUSSMANN P4X-EP	WET RACK VEG & FRUIT MULTIDECK	29.74	28	31	36	---			-----	R744	OFFTIME	AM01	-----	1.4	3.6 @ 120/1/60	-----	-----	-----
AM02	16 FT	1-017	HUSSMANN P4X-EP	WET RACK VEG & FRUIT MULTIDECK	19.82	28	31	36	---			-----	R744	OFFTIME	AM02	-----	0.9	2.4 @ 120/1/60	-----	-----	-----
AM03	16 FT	1-001	HILLPHOENIX 6DMLH-NRG	PACKAGED FRUIT & VEG MULTIDECK	23.20	28	34	---	---			-----	R744	OFFTIME	AM03	-----	0.9	1.8 @ 120/1/60	-----	-----	-----
AM04	10 FT	1-026 / 1-027	HILLPHOENIX 6DMLH-NRG	PACKAGED FRUIT & VEG MULTIDECK	14.50	28	34	---	---			-----	R744	OFFTIME	AM04	-----	0.5	1.1 @ 120/1/60	-----	-----	-----
AM05	16 FT	2-008	HILLPHOENIX O5MH-NRG	MULTIDECK SEAFOOD	23.04	26	30	---	---			-----	R744	OFFTIME	AM05	-----	0.7	1.9 @ 120/1/60	-----	-----	-----
AM06	12 FT	3-004	HILLPHOENIX O5MH-NRG	MULTIDECK MEAT	17.28	26	30	---	---			-----	R744	OFFTIME	AM06	-----	0.5	1.4 @ 120/1/60	-----	-----	-----
AM07	6 FT	3-012	HILLPHOENIX OUM	SINGLE DECK MEAT	4.55	22	27	---	---			-----	R744	OFFTIME	AM07	-----	0.3	0.2 @ 120/1/60	0.2	-----	-----
AM08	24 FT	3-007	HILLPHOENIX OUM	SINGLE DECK MEAT	18.19	22	27	---	---			-----	R744	OFFTIME	AM08	-----	1.1	0.6 @ 120/1/60	0.8	-----	-----
AM09	12 FT	5-206	HILLPHOENIX SBI-512R	COLD BAR ISLAND W/ SODA	3.23	24	34	---	---			-----	R744	OFFTIME	AM09	-----	0.5	1.2 @ 120/1/60	-----	-----	20A RECEPT.
AM10	12 FT	5-205	HILLPHOENIX SBI-512R	COLD BAR ISLAND W/ PUMPS	7.25	24	34	---	---			-----	R744	OFFTIME	AM10	-----	0.7	2.2 @ 120/1/60	-----	-----	20A RECEPT.
AM11	16 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	5.28	29	32	---	---			-----	R744	OFFTIME	AM11	-----	1.0	0.7 @ 120/1/60	-----	-----	-----
AM12	8 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	2.64	29	32	---	---			-----	R744	OFFTIME	AM12	-----	0.5	0.3 @ 120/1/60	-----	-----	-----
AM13	16 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	5.28	29	32	---	---			-----	R744	OFFTIME	AM13	-----	1.0	0.7 @ 120/1/60	-----	-----	-----
AM14	16 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	5.28	29	32	---	---			-----	R744	OFFTIME	AM14	-----	1.0	0.7 @ 120/1/60	-----	-----	-----
AM15	8 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	2.64	29	32	---	---			-----	R744	OFFTIME	AM15	-----	0.5	0.3 @ 120/1/60	-----	-----	-----
AM16	16 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	5.28	29	32	---	---			-----	R744	OFFTIME	AM16	-----	1.0	0.7 @ 120/1/60	-----	-----	-----
AM17	16 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	5.28	29	32	---	---			-----	R744	OFFTIME	AM17	-----	1.0	0.7 @ 120/1/60	-----	-----	-----
AM18	8 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	2.64	29	32	---	---			-----	R744	OFFTIME	AM18	-----	0.5	0.3 @ 120/1/60	-----	-----	-----
AM19	16 FT	5-014	ARNEG SANTIAGO	LOW PROFILE BEVERAGE	5.28	29	32	---	---			-----	R744	OFFTIME	AM19	-----	1.0	0.7 @ 120/1/60	-----	-----	-----
AM20	36 FT	4-023	HILLPHOENIX VNRBH	MULTIDECK BEER AND WINE	15.55	34	38	---	---			-----	R744	OFFTIME	AM20	-----	1.8	2.0 @ 120/1/60	6.2	-----	-----
AM21	8 FT	8-011	HILLPHOENIX ON5DMH	CHILLED SPECIALTY	14.72	22	33	---	---			-----	R744	OFFTIME	AM21	-----	4.2	0.9 @ 120/1/60	-----	-----	-----
AM22	12 FT	8-023	HILLPHOENIX VNRBH	REACH-IN CHILLED SPECIALTY	5.18	34	38	---	---			-----	R744	OFFTIME	AM22	-----	0.6	0.7 @ 120/1/60	2.1	-----	-----
AM23	67' x 15' x 10'	---	(3) RUSSELL RWF340	VEGETABLE VALLEY	157.00	45	60	---	60			-----	R744	OFFTIME	AM23	NO	-----	10.8 @ 120/1/60	-----	-----	-----
AM24	16' x 15' x 10'	---	(1) RUSSELL RWF190	CRISPER	17.00	30	40	---	39			-----	R744	OFFTIME	AM24	NO	-----	2.4 @ 120/1/60	-----	-----	-----
AM25	34' x 15' x 10'	---	(2) RUSSELL RWF220	FRUIT & VEGETABLE COOLER	36.00	30	40	---	38			-----	R744	OFFTIME	AM25	NO	-----	4.8 @ 120/1/60	-----	-----	-----
AM26	18' x 10' x 10'	---	(2) RUSSELL RWF190	OPEN MEAT KITCHEN	46.80	40	55	---	52			-----	R744	OFFTIME	AM26	NO	-----	4.8 @ 120/1/60	-----	-----	-----
AM27	62' x 11' x 10'	---	(4) RUSSELL RWF130	GROCERY COOLER	34.70	22	30	33	29			SENSOR	R744	ELECTRIC	AM27	NO	-----	3.6 @ 208/1/60	-----	41.6 A @ 208/1/60	-----
AM28	63' x 13' x 10'	---	(4) RUSSELL ITA36-240	DAIRY COOLER W/ 30 REACH-IN DOORS	80.90	25	35	---	33			-----	R744	OFFTIME	AM28	NO	-----	14.4 @ 120/1/60	-----	-----	-----
				SYSTEM 'AL' HEAT REJECTION	88.09																

CONDENSER DATA

ADIABATIC GAS COOLERS FOR TRANSCRITICAL CO2 RACK SYSTEM 'AL / AM / AH'

MANUFACTURER: BALTIMORE AIR COIL

MODEL: TVFC EC8023-Q810

QUANTITY: (1)

OPERATION CAPACITY - 1,403.69 MBH

ACTUAL TD: 4.2°F

FAN SPEED - VSEC

APPROXIMATE OPERATING WEIGHT - 5,994 LBS.

APPROXIMATE DIMENSIONS - 14'-1" L x 7'-10" W x 8'-2" H

SINGLE POINT ELECTRICAL - 30.2A (FLA) @ 460/3/60

NOTES

1. SPORLAN SER ELECTRONIC EXPANSION VALVE AND MICRO-THERMO CASE CONTROLLER MOUNTED IN EACH CASE OR EVAPORATOR BY OEM.
2. REFRIGERATION EQUIPMENT MANUFACTURER TO FURNISH THERMASTOR HOT WATER RECLAIM TANK (TS-120-II-1) SHIPPED LOOSE FOR FIELD INSTALLATION BY REFRIGERATION INSTALLATION CONTRACTOR.
3. RESPECTIVE LOAD IS POWERED FROM THE RACK

brr

Architect of Record:
BOYD W. RAU
6700 Antioch Plaza
Suite 300
Merriam, KS 66204

www.brrarch.com

Tel: 913-262-9095
Fax: 913-262-9044

Consultants

ENGINEERING SUSTAINABLE ENERGY SOLUTIONS
Energy Squared Texas Engineering Consultants
Energy Squared Texas, LLC
7330 San Pedro Avenue, Suite 402
San Antonio, Texas 78216
PH - (210) 510-2300 FAX - (210) 510-2319
www.energysquaredeng.com
GEORGIA CERTIFICATE OF AUTHORIZATION #PEF006770

Issues & Revisions

NO.	DATE	DESCRIPTION
	01/26/18	PERMIT SET
1	03/06/18	ADDENDUM 1

Project Name

365 BY WHOLE FOODS MARKET
DECATUR, GA
1555 CHURCH STREET, DECATUR, GA 30030

365 BY WHOLE FOODS MARKET

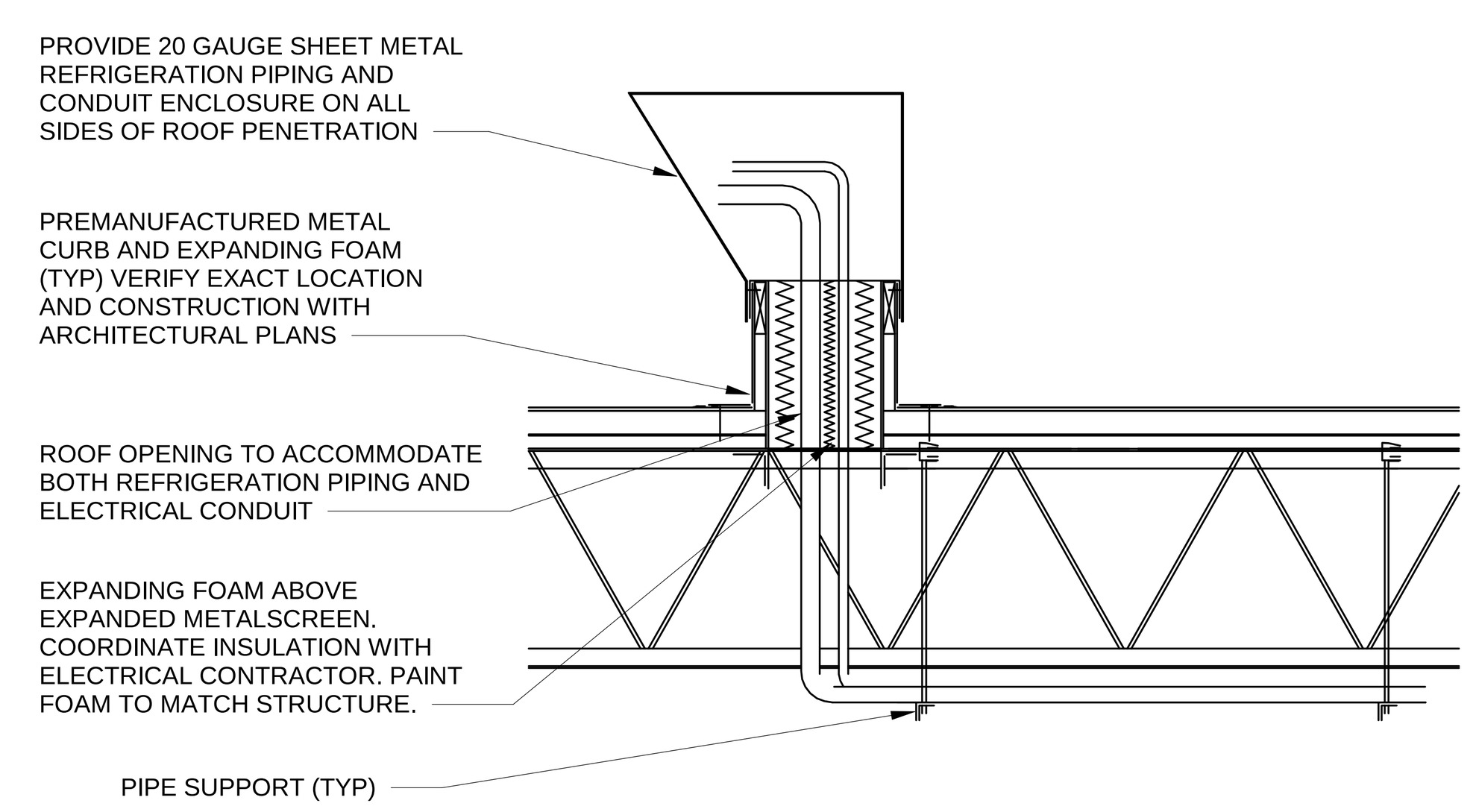
Project Manager: JCS
Checked By:
Drawn by: JCS
Document date:
Template date:
Project No. 62911019
Professional Seal

03/06/2018

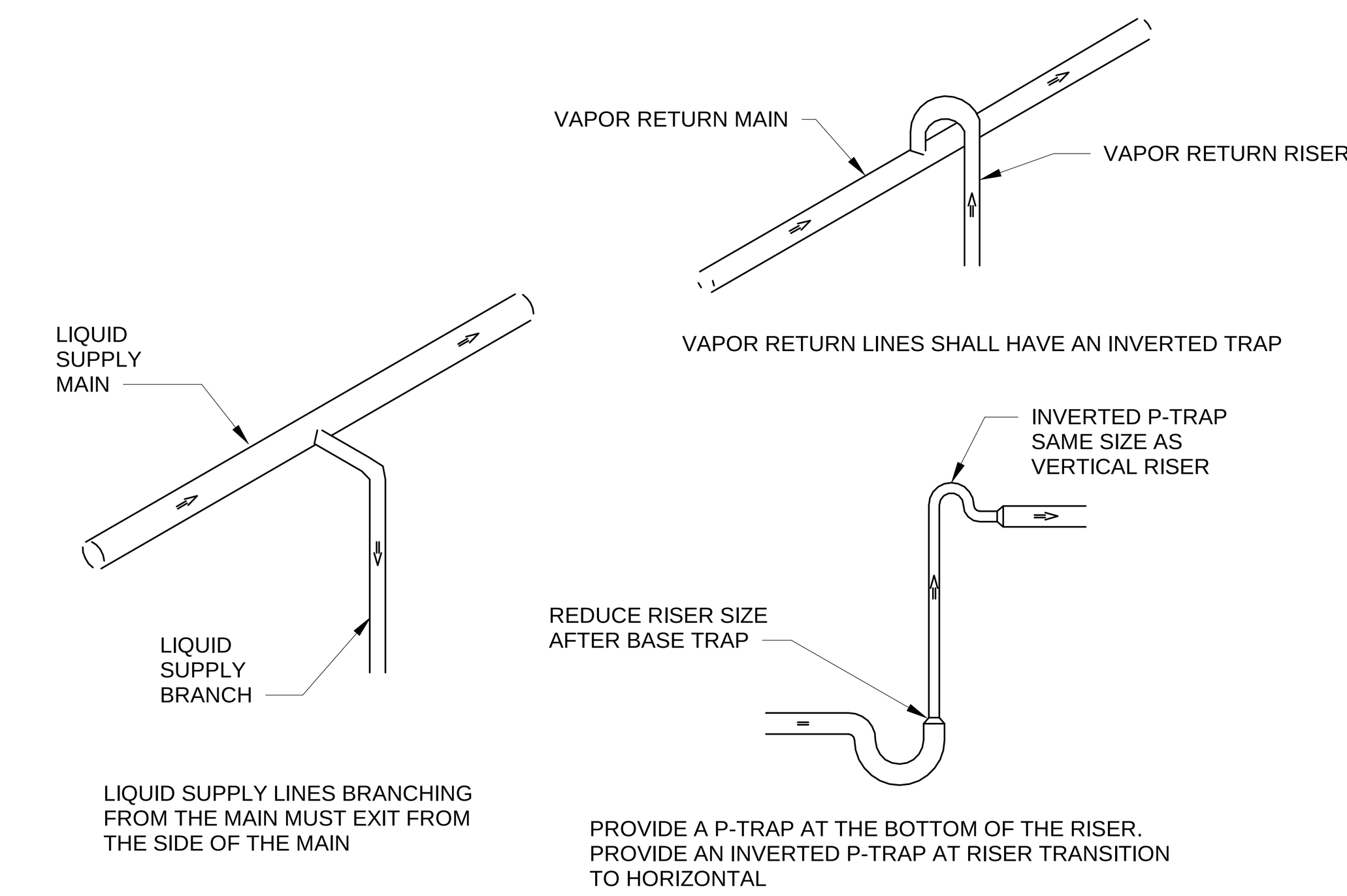
Sheet Title
REFRIGERATION SCHEDULES

Sheet No. R200

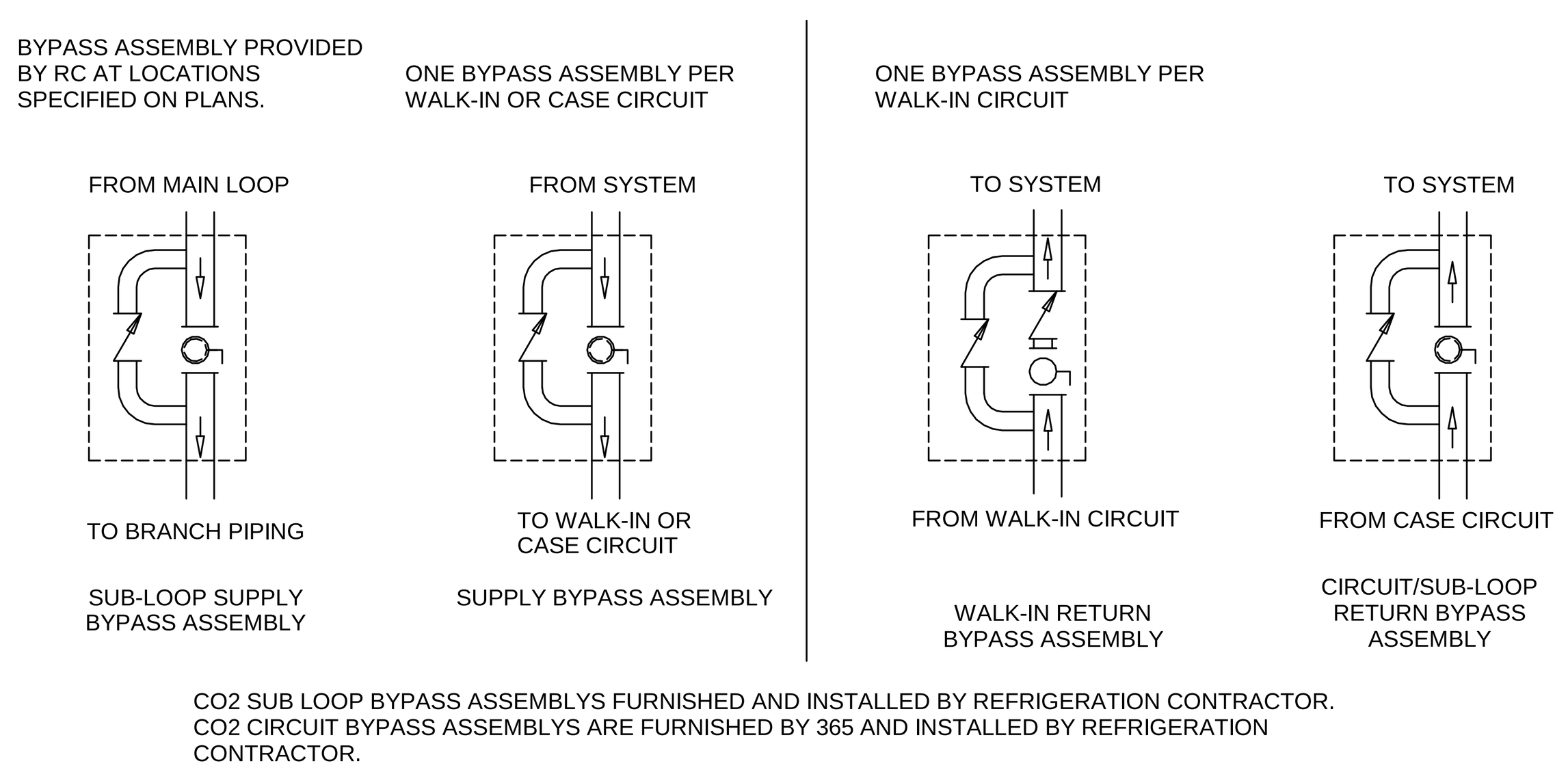
3/6/2018 6:42:50 PM



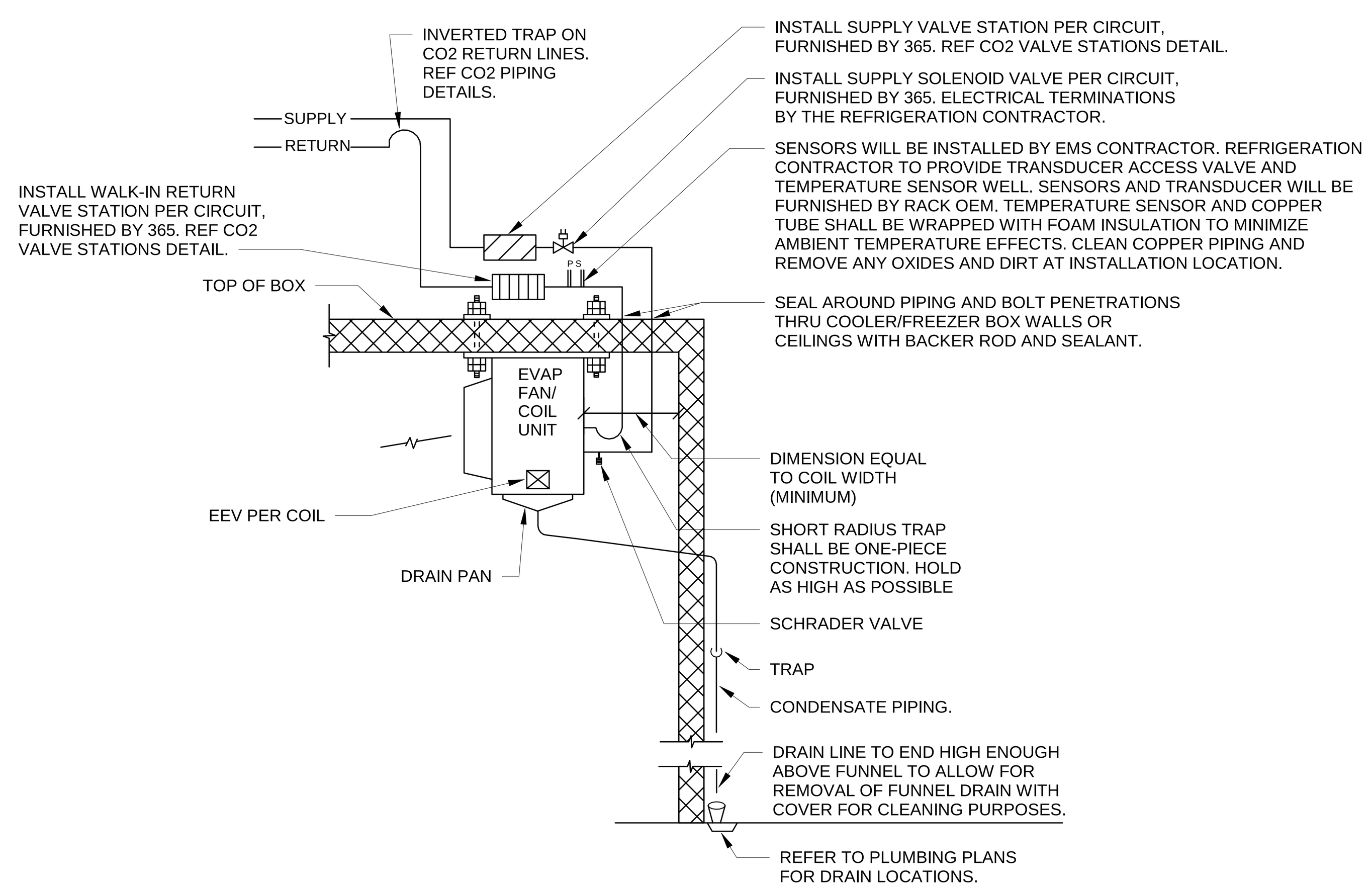
8 ROOF PENETRATION
NTS



7 CO2 DX PIPING DETAILS
NTS



6 CO2 BYPASS ASSEMBLY
NTS



5 EVAPORATOR FAN-COIL UNIT
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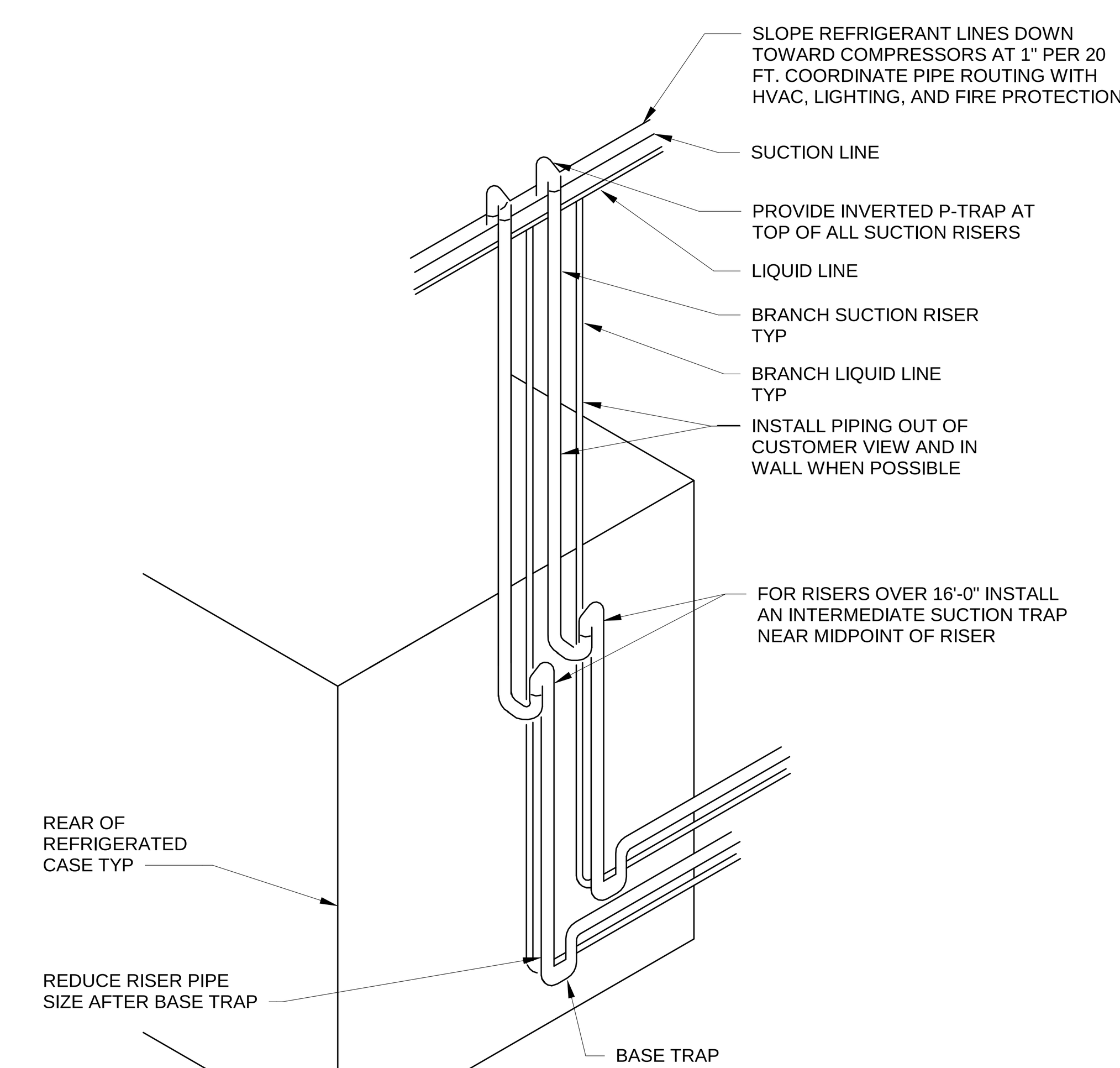

4 INTERMEDIATE SUCTION LINE TRAP
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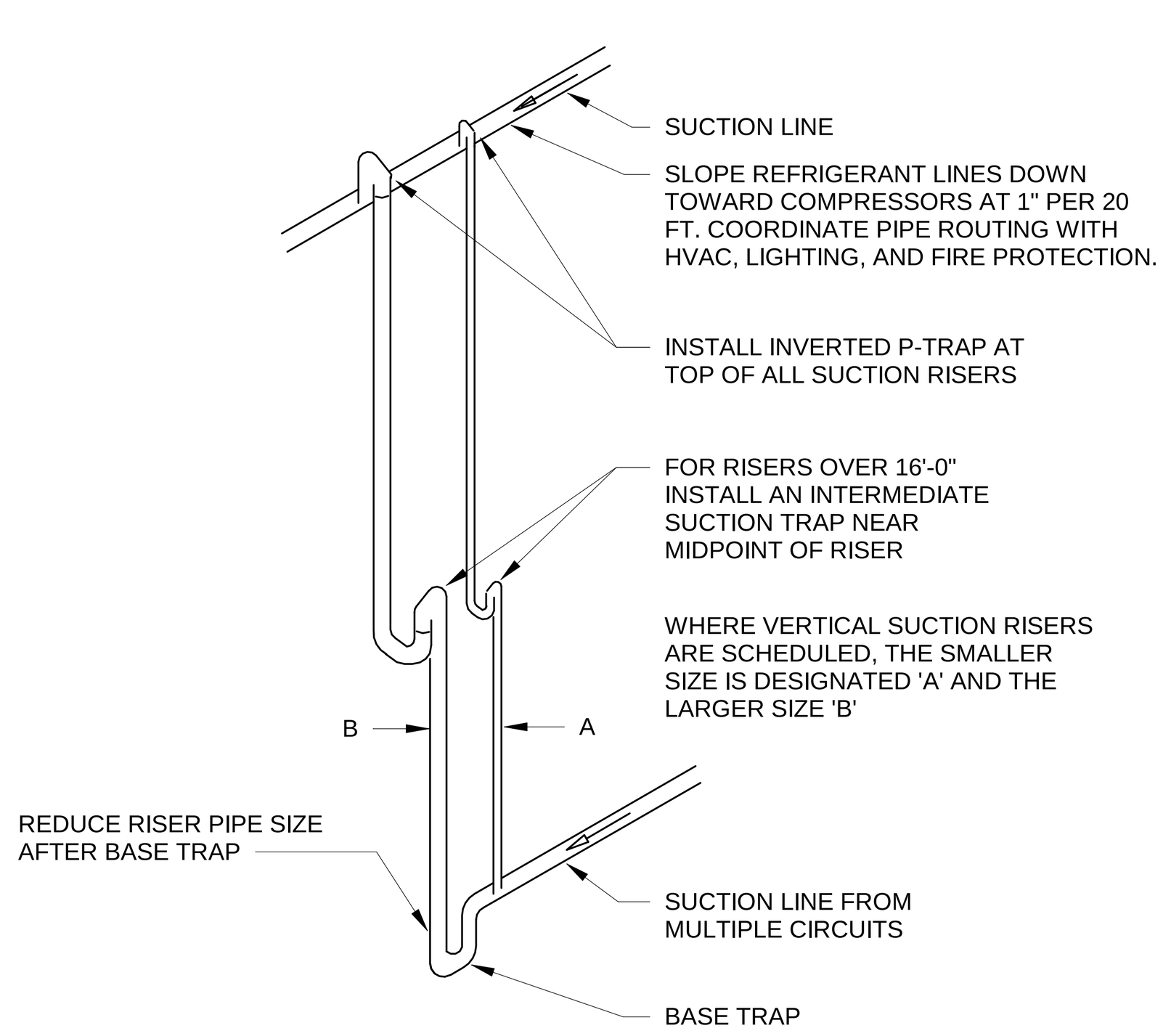
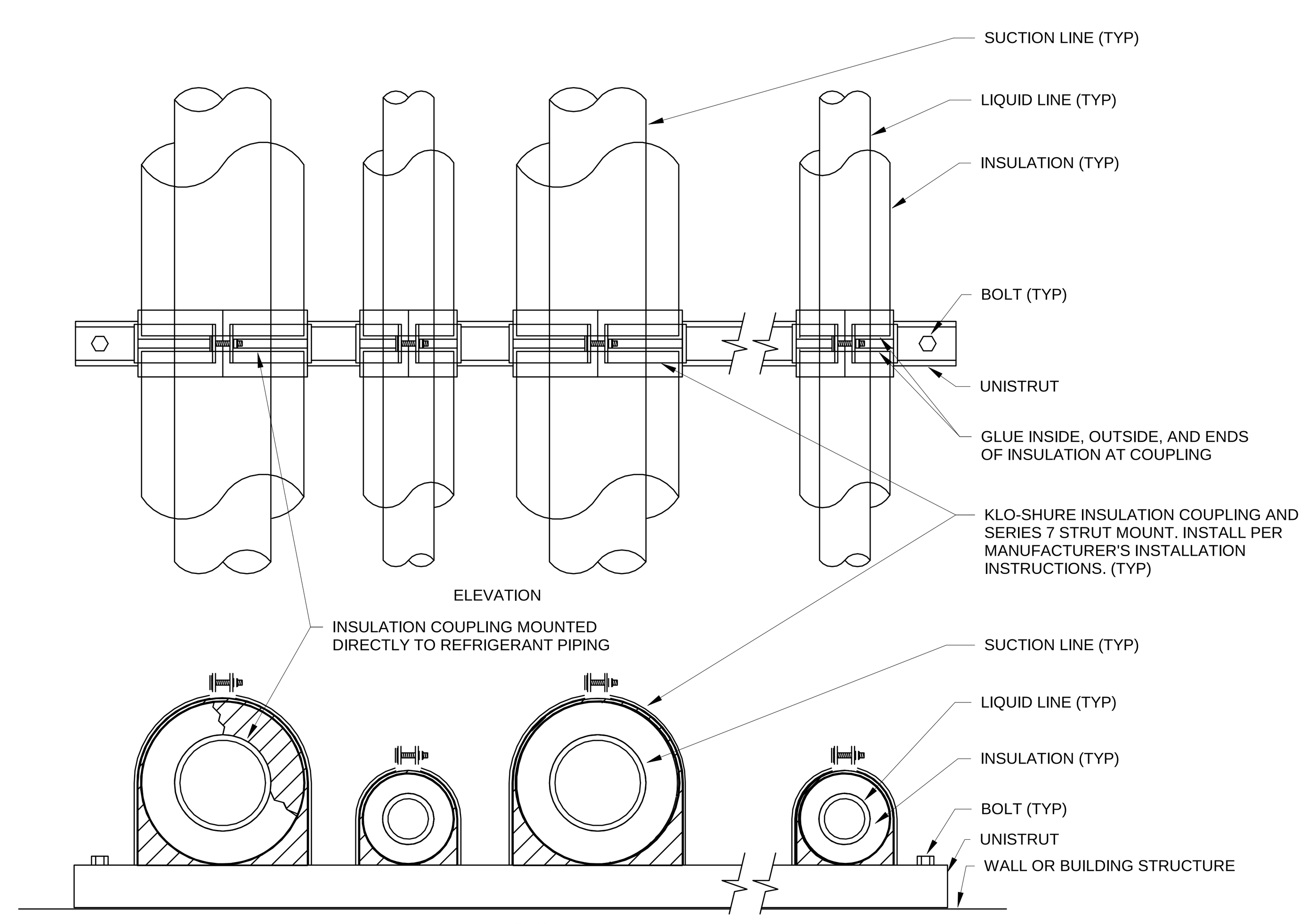
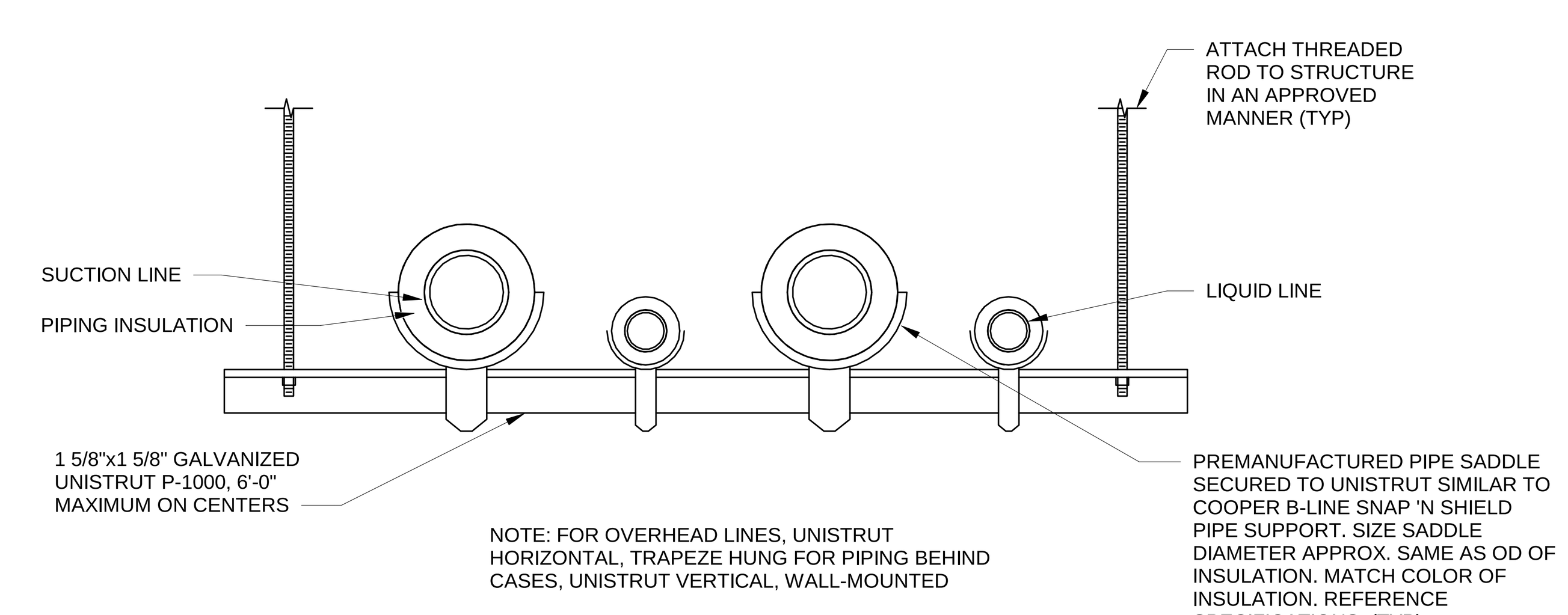


3 VERTICAL SUCTION DOUBLE RISER
NTS



2 VERTICAL REFRIGERANT LINE SUPPORT
NTS



1 HORIZONTAL REFRIGERANT LINE SUPPORT
NTS

3/6/2018 6:42:53 PM

brr

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Sheet No.
R300