FREESTANDING
MILITARY ROAD (HWY 21)
BUSH, LA 70431
DEAL #801995

SECURITY NOTES:

THIS PROJECT IS INDICATED TO BE IN AN AREA WITH A RISK FACTOR OF 0. STORE TO RECEIVE:

- YALE SDA 16XL STANDALONE ALARM, AND HAGAR EXIT DEVICE
- DOUBLE DOOR WILL HAVE DUSTPROOF STRIKE, FLUSH BOLTS, AND ASTRAGAL

SITE OBSERVATION

THE SCOPE OF SERVICES FOR THIS PROJECT IS INCLUSIVE OF CONSTRUCTION DOCUMENTS AND PERMITTING ONLY. THE CLIENT HAS SELECTED NOT TO CONTRACT CASCO TO PROVIDE FOR CONSTRUCTION SITE SURVEILLANCE AND WILL BE PROVIDING FOR THAT PROFESSIONAL SERVICE BY OTHER MEANS.

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ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADA	AMERICAN DISABILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECT,ARCHITECTURAL
APPROX	APPROXIMATE
BD	BOARD
BLDG	BUILDING
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
DF	DRINKING FOUNTAIN
DTL	DETAIL
DWG	DRAWING
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELEV	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FE	FIRE EXTINGUISHER
FR	FIRE RETARDANT
FRP	FIBERGLASS REINFORCED PANEL
FIN	FINISH, FINISHED
FT	FOOT, FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GWB	GYPSUM WALL BOARD
H	HIGH
HDW	HARDWARE
HM	HOLLOW METAL
HGT	HEIGHT
HOL	HOLLOW
HORIZ	HORIZONTALLY
HR	HOUR
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
JT	JOINT
L	LENGTH, LONG
LAM	LAMINATE
LVT	LUXURY VINYL TILE
MAX	MAXIMUM
MFG, MANUF	MANUFACTURE, MANUFACTURER
MIN	MINIMUM, MINUTE
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
OC	ON CENTER
OPP	OPPOSITE
PEJ	PREFORMED EXPANSION JOINT
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PR	PAIR
PSI	POUNDS PER SQUARE INCH
PTD	PAINTED
RELO	RELOCATE
REQD	REQUIRED
SC	SOLID CORE
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
STRUCT	STRUCTURAL
TH	THICK, THICKNESS
T	TEMPERED GLASS
THRESH	THRESHOLD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
VCT	VINYL COMPOSITION TILE
VTR	VENT THROUGH ROOF
W	WIDE, WIDTH
WD	WOOD
W/	WITH
WWF	WELDED WIRE FABRIC
&	AND
∠	ANGLE
@	AT
℄	CENTER LINE
°	DEGREES
Ø, DIA	DIAMETER
#	NUMBER
±	PLUS OR MINUS

SYMBOLS

ELEVATION MARKER
ENLARGED DETAIL INDICATOR
WALL SECTION MARKER
INTERIOR ELEVATION MARKER
DEMOLITION NOTE
REVISION MARKER
DOOR NUMBER
ELEVATION DATUM
BREAK LINE
EXISTING DOOR
NEW DOOR
WALL CONSTRUCTION TYPE
WOOD TRIM
NEW WALL CONSTRUCTION
CMU
CONCRETE
GYPSUM WALL BOARD

PROJECT DIRECTORY/CONTACTS

PROJECT MANAGERS: CASCO
12 SUNNEN DRIVE, SUITE 100
ST. LOUIS, MO 63143
PHONE: (314) 821-1100
FAX: (314) 821-4162
CONTACT: BRIAN KEITH NAST
EMAIL: familydollar@cascocorp.com

TENANT: DOLLAR TREE / FAMILY DOLLAR
500 VOLVO PARKWAY
CHESAPEAKE, VIRGINIA 23320
PHONE: (704) 634-5780
FAX: (757) 321-5400
CONTACT: JEFF BEEDLE
EMAIL: jbeddle@familydollar.com

LANDLORD: EXECUTIVE HOLDINGS
311 TELLY RD
PICAYUNE, MS 39466
EMAIL: corey@execreal.com

SIGN CONTRACTOR: ALLEN INDUSTRIES
6434 BURNT POPLAR ROAD
GREENSBORO, NC 27409
PHONE: (336) 615-8684
OFFICE: (336) 668-2791
CONTACT: ROBERT GUYETTE
EMAIL: Robert.guyette@alleninduslries.com

FREEZER/COOLER VENDOR: ORIGIN RETAIL SOLUTIONS
12220 BIRMINGHAM HIGHWAY
BUILDING 90
MILTON, GA 30004
PHONE: (770) 374-9362
CONTACT: TONY O'CONNOR

BUILDING DEPARTMENT: ST. TAMMANY PARISH GOVERNMENT
KOOP DRIVE COMPLEX
21454 KOOP DR., STE 1B
MANDEVILLE, LA 70471
PHONE: 985-898-2574

SCOPE OF WORK

1. TENANT FINISHES OF THE NEW MERCANTILE SPACE.
2. ADDING NEW EMS SYSTEM.
3. PAINTING WALLS.
4. POLISH CONCRETE FLOORS.
5. ADDING NEW CHECKOUTS AND SALES FIXTURES.
6. ADD NEW REACH IN FREEZER/COOLERS
7. ADD NEW ELECTRICAL PANEL

BUILDING CODE SUMMARY

APPLICABLE BUILDING CODE:	INTERNATIONAL BUILDING CODE, 2015 EDITION
APPLICABLE PLUMBING CODE:	INTERNATIONAL PLUMBING CODE, 2015 EDITION
APPLICABLE MECHANICAL CODE:	INTERNATIONAL MECHANICAL CODE, 2015 EDITION
APPLICABLE ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE, 2014 EDITION
APPLICABLE FIRE CODE:	INTERNATIONAL FIRE CODE, 2015 EDITION
APPLICABLE ENERGY CODE:	IECC, 2009 EDITION
APPLICABLE ACCESSIBILITY CODE:	2009 IBC, CHAPTER 11 AND ICC A117.1
TYPE OF CONSTRUCTION:	TYPE V B
USE GROUP:	M - MERCANTILE
NUMBER OF STORIES:	ONE (1)
SPRINKLERED:	NO
FIRE MONITORING REQUIRED:	NO

OCCUPANCY CALCULATIONS

TOTAL LEASE AREA:	10,562				
AREA CALCULATIONS:					
SALES:	8,945 SF				
NON-SALES:	1,617 SF				
TOTAL AREA:	10,562 SF				
OCCUPANCY CALCULATIONS:					
SALES	8,945 SF /	60 SF		149	OCCUPANTS
NON-SALES	1,617 SF /	300 SF	=	6	OCCUPANTS
TOTAL:				155	OCCUPANTS
EGRESS CALCULATIONS:					
SALES AREA:	149 x 0.20	INCHES	=	29.8	INCHES
NON-SALES AREA:	6 x 0.20	INCHES	=	1.20	INCHES
TOTAL EGRESS WIDTH REQUIRED:			=	31.02	INCHES

EGRESS PROVIDED 99 INCHES > 31.02 INCHES REQUIRED THEREFORE OK

GENERAL SITE ACCESSIBILITY NOTES

1. THE EXTERIOR ROUTES OF TRAVEL AND ACCESSIBLE PARKING ARE EXISTING PRIOR TO THE OCCUPANCY OF THE NEW TENANT. ALL ACCESSIBILITY COMPLIANCE AND SITE PLANNING ISSUES OUTSIDE THE DOLLAR TREE/FAMILY DOLLAR SPACE SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, THEIR CONSULTANTS, PROPERTY MANAGERS, AND/OR ASSIGNED REPRESENTATIVES.
2. NO CHANGE OF OCCUPANCY OR EXTERIOR SITE MODIFICATION SHALL OCCUR WITHOUT PRIOR PERMITTING AND COMPLIANCE TO ABOVE MENTIONED CODE. REQUIRED SITE DEVELOPMENT OR COMPLIANCE TO ABOVE MENTIONED CODE SHALL BE SOLE RESPONSIBILITY OF LANDLORD AND/OR OWNER OF EXISTING BUILDING AND SITE.

GENERAL NOTES

1. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES AND REGULATIONS. CONSTRUCTION SHALL ALSO COMPLY WITH LANDLORD'S CRITERIA (UNLESS PRECLUDED BY CODE).
2. ALL WOOD FRAMEWORK, WOOD BLOCKING AND PLYWOOD SHALL BE FIRE RETARDANT TREATED PER CODE.
3. ALL FINISH MATERIALS SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING CLASS C (OR CLASS 3).
4. WALL CONSTRUCTION BY THE TENANT'S CONTRACTOR IS SHOWN HATCHED.
5. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BID TO DETERMINE THE EXTENT OF WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND THE TENANT OF ANY DISCREPANCIES PRIOR TO BIDDING.
6. ALL MATERIALS INDICATED ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING, AND SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. ITEMS INDICATED AS TENANT SUPPLIED SHALL BE INSTALLED BY THE CONTRACTOR PER TENANT'S REQUIREMENTS AND/OR MANUFACTURER'S PUBLISHED STANDARDS.
7. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH THE EXISTING ADJACENT MATERIALS, SO THAT THE REPAIR IS IMPERCEPTIBLE.
8. DURING THE COURSE OF CONSTRUCTION, IF THE CONTRACTOR UNCOVERS ANY CODE VIOLATION KNOWN TO HIM OR ANY DISCREPANCY WITH THE DESIGN, CONTRACTOR SHALL NOTIFY THE ARCHITECT OF SUCH IMMEDIATELY.
9. CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/ PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRIAL/ASSOCIATION STANDARDS.
10. FIELD VERIFY AND/OR REPORT ASBESTOS-CONTAINING MATERIAL TO ARCHITECT AND TENANT UPON DISCOVERY.
11. SMOKE AND FIRE PARTITIONS SHALL BE CONSTRUCTED PER THE DESIGNATED UL DESIGN AND SHALL BE EXTENDED VERTICALLY TO THE BOTTOM OF THE STRUCTURE ABOVE. PROVIDE FIRE STOPS AND SEAL ALL PIPE AND CONDUIT PENETRATIONS WITH SEALANT THAT COMPLIES WITH THE MINIMUM FIRE RATED REQUIREMENTS FOR THE PARTITION. DUCT PENETRATIONS SHALL BE PROTECTED WITH SMOKE AND/OR FIRE DAMPERS.
12. ALL INTERIOR CONCRETE SHALL BE PORTLAND CEMENT BASED TO INCLUDE PATCHING, FLOATING/LEVELING OF FLOORS AND INFILLING.
13. FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS SHALL BE PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING. LETTERING SHALL BE NOT LESS THAN 3" IN HEIGHT LOCATED ABOVE AN ACCESSIBLE CEILING AND REPEATED IN INTERVALS NOT EXCEEDING 30' HORIZONTALLY ALONG THE WALL OR PARTITION. SUGGESTED WORDING SHALL BE " FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS."
14. ANY DETAIL WHICH MAY BE INCOMPLETE OR LACKING IN THE PLANS OR SPECIFICATIONS SHALL NOT CONSTITUTE CLAIM FOR EXTRA COMPENSATION. SUCH DETAIL, IF REQUESTED BY THE CONTRACTOR, SHALL BE SUPPLIED BY THE ENGINEER/ARCHITECT AND SUBMITTED TO THE CONTRACTOR IN ADVANCE OF ITS REQUIREMENT ON THE JOB. THE TRUE INTENT OF THE PLANS AND SPECIFICATIONS IS TO PRODUCE A COMPLETE WORKING FACILITY AND INCOMPLETE DETAIL WILL NOT ABROGATE THIS INTENT.
15. THE CONTRACTOR SHALL PROVIDE ALL SHOP DRAWINGS (WITH THEIR STAMP OF APPROVAL) AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR APPROVAL BY THE ARCHITECT/ENGINEER OF RECORD.

NEW WORK NOTES

1. PROVIDE TENANT IDENTIFICATION SIGN AT REAR DOOR PER LANDLORD'S CRITERIA.
2. (4) 2A-10BC RATED FIRE EXTINGUISHERS, SIMILAR TO JL INDUSTRIES MODEL COSMIC 5E, TO BE TENANT SUPPLIED. LOCATE EXTINGUISHERS AS SHOWN. PROVIDE WALL BRACKETS AND MOUNT CONTROLS AT 48" AFF MAX. PROVIDE "FIRE EXTINGUISHER" SIGNS ON WALL DIRECTLY ABOVE EACH UNIT. CONTRACTOR SHALL HAVE EXTINGUISHERS INSPECTED AND TAGGED. REFER TO G/A4.1 FOR ADDITIONAL INFORMATION.
3. THE CONTRACTOR SHALL VERIFY THAT TOILET ROOM(S), INCLUDING FIXTURES AND ACCESSORIES (BOTH EXISTING AND NEW), MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL ACCESSIBILITY CODES AND LAWS.
4. PROVIDE EXTERIOR LIGHT ABOVE REAR DOOR, AS APPROVED BY LANDLORD, IF ONE DOES NOT EXIST WITHIN 10 FEET OF REAR DOOR.
5. PAINT ALL EXPOSED SURFACE MOUNTED CONDUIT TO MATCH ADJACENT WALL COLOR (I.E. WHITE OR YELLOW).
6. CONTRACTOR SHALL CAULK AROUND TOP AND BOTTOM EDGES OF COLUMN SURROUNDS TO AVOID INJURY. REFER TO DETAIL 4/CS2 FOR ADDITIONAL INFORMATION.
7. REPAIR AND CLEAN ALL EXISTING MATERIALS (I.E. STOREFRONT FRAMING AND GLAZING, WALLS, CEILING, ETC.) TO REMAIN TO A LIKE NEW CONDITION.
8. NOTIFY CPM AS TO THE CONDITION OF EXPOSED CONCRETE BLOCK WALL TO REMAIN ON THE SALES FLOOR. CPM WILL MAKE THE DETERMINATION AS TO WHETHER THE WALL'S CONDITION IS SUITABLE FOR PAINTING OR NEEDS TO BE FURRED OUT WITH METAL STUDS AND GWB.
9. CONTRACTOR SHALL INSTALL TENANT SUPPLIED FIXTURES INCLUDING, BUT NOT LIMITED, TO CART CORRAL, PERIMETER WALL GONDOLA, FLOOR GONDOLA, BALLOON CENTER, HANGING BALLOON CORRALS, HELIUM TANK CABINET (SALES FLOOR), HELIUM TANK BRACKETS (STOCKROOM, SEE DETAIL), GRAVITY CONVEYOR SYSTEM, AND MOBILE FIXTURES PER TENANT'S FIXTURE PLAN. CALIFORNIA PROJECTS ONLY, CONTRACTOR SHALL STRAP ALL FIXTURES AS PER THE SEISMIC DRAWINGS PROVIDED. CONTACT THE CPM IF FIXTURE/SEISMIC DRAWING WAS NOT MADE AVAILABLE TO YOU DURING YOUR BIDDING PROCESS.
10. DOORS AND FRAMES (OTHER THAN THOSE LISTED AS EXIST) ARE TENANT SUPPLIED FOR CONTRACTOR INSTALLATION. STOREFRONT DOORS (WHEN NOTED) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR. AUTOMATIC DOORS (WHEN NOTED) WILL BE SUPPLIED AND INSTALLED BY TENANT'S VENDOR, (CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONNECTION).
11. CONTRACTOR SHALL REMOVE ANY EXISTING SIGNAGE THAT HAS PREVIOUS TENANT'S NAME (INTERIOR AND/OR EXTERIOR). ANY SIGNAGE THAT IS REQUIRED SHALL BE REPLACED IN LIKE KIND WITH TENANT'S NAME.
12. CONTRACTOR SHALL VERIFY IF THERE IS AN EXISTING ACCESS PANEL TO TENANT'S SIGNAGE. IF ACCESS PANEL DOES NOT EXIST, INSTALL 2'-0" X 2'-0" ACCESS PANEL EITHER INSIDE AT FAMILY DOLLAR SPACE, ABOVE THE CEILING (VERIFY FIRE RATINGS AND CODE REQUIREMENTS) OR IN THE EXTERIOR SOFFIT. ACCESS PANEL TO MATCH CANOPY CONSTRUCTION, AS ALLOWED BY LANDLORD. CONFIRM WITH SIGN VENDOR FOR LOCATION PRIOR TO INSTALLING.
13. CONTRACTOR SHALL NOTIFY CPM OF ANY NECESSARY REPAIRS TO ROOF PRIOR TO PERFORMING ANY OR ALL WORK.
14. CONTRACTOR SHALL REMOVE AND DISPOSE OF ANY AND ALL PREVIOUS TENANT'S EXTERIOR SIGNAGE LEFT BEHIND. ALL EXISTING SURFACES TO REMAIN, WHICH ARE DAMAGED OR OTHERWISED DISTURBED BY REMOVAL OF PREVIOUS TENANT SIGNAGE, SHALL BE PATCHED OR REPAIRED AND PAINTED TO MATCH EXISTING ADJACENT MATERIALS SO THAT THE REPAIR IS IMPERCEPTIBLE. CONTRACTORS SHALL NOT INCLUDE THIS SCOPE OF WORK IN THEIR BID AND WILL BE HANDLED VIA CHANGE ORDER AFTER SITE EVALUATION IS DONE BY WINNING BIDDER. CONTRACTOR SHALL FORWARD THE EVALUATION AND PRICE QUOTE TO THE CPM FOR APPROVAL PRIOR TO PERFORMING ANY AND ALL WORK.
15. CONTRACTOR SHALL INSTALL TENANT SUPPLIED INTERIOR GRAPHICS AND SIGNS INCLUDING, BUT NOT LIMITED TO, PERIMETER WALL GRAPHICS/SIGNAGE, HANGING GRAPHICS/SIGNAGE AND STOREFRONT WINDOW DECALS. CONTACT THE CPM FOR GRAPHIC/SIGNAGE DRAWINGS.
16. CONTRACTOR SHALL SEAL ALL EXTERIOR PENETRATIONS INCLUDING CRACKS, HOLES, GAPS, AND EXISTING PENETRATIONS. CONTRACTOR SHALL SELECT MATERIAL APPROPRIATE FOR CONDITION TO PROVIDE PERMANENT RODENT-PROOF INFILL (INSULATION SPRAY FOAM IS NOT AN ACCEPTABLE FINISHED MATERIAL.)
17. CONTRACTOR SHALL INSTALL NEW ENTRY "DECO RIB" CARPET TILE W/ TRANSITION STRIP. TRANSITION STRIP TO BE SECURED TO FLOOR W/ 3/16" X 1 3/4" TAPCON SCREWS.
18. CONTRACTOR SHALL POST ON BULLETIN BOARD IN OFFICE FINAL INSPECTIONS AND CERTIFICATE OF OCCUPANCY.
19. AT ROOF, FLASH NEW MECHANICAL EQUIPMENT CURBS IN ACCORDANCE WITH ROOFING MANUFACTURER'S RECOMMENDATIONS. REFER TO MECHANICAL AND/OR STRUCTURAL DRAWINGS FOR MORE INFORMATION. GENERAL CONTRACTOR SHALL COORDINATE WITH CPM PRIOR TO STARTING WORK & SHALL USE LANDLORD'S ROOFING CONTRACTOR SO AS T NOT VOID LANDLORD ROOF WARRANTY.
20. ALL PLAQUE SIGNAGE INCLUDING, BUT NOT LIMITED TO, TOILET SIGNS, LADDER STORAGE SIGN, AND FLEX CONVEYOR SIGN SHALL BE ATTACHED TO MOUNTING SURFACE WITH CONSTRUCTION ADHESIVE.

CASCO
12 Sunnen Drive, Suite 100, St. Louis, MO 63143 T: 314.821.1100

mark	date	description	by
8			
7			
6			
5			
4			
3			
2			
1	PERMIT/BID 12/06/21		

revisions

date	12/06/21
project	21009995
designed	BKN
drawn	BKN
checked	CMS

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL FIRM
LICENSE #AE0220
EXPIRES 6/30/22

PROFESSIONAL OF RECORD

KRISTEN M. MACK
License No. A-9222
Expiration Date 12-31-22
PHONE: 314-821-1100

project: FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

drawing: NOTES AND LEGEND
RESPONSIBILITY CHART AND KEY PLAN

CS1

ENVIRONMENTAL HEALTH NOTES

1. THIS FACILITY CARRIES ONLY 100 % PRE-PACKAGED FOOD TO INCLUDE THE FREEZER/COOLER PRODUCT.
2. THIS FACILITY IS A NON DINING FACILITY. NO DINING SEATING WILL BE PROVIDED TO CUSTOMERS.
3. THIS FACILITY DOES NOT PERFORM ANY TYPE OF FOOD PREPARATION WITHIN THE STORE FOR CUSTOMER CONSUMPTION AND/OR EMPLOYEE CONSUMPTION.
4. THIS FACILITY HAS NO FOOD EQUIPMENT WITHIN THE STORE.
5. THIS FACILITY WILL HAVE 3 TO 4 EMPLOYEES PER SHIFT MAXIMUM. ONE STORE MANAGER, ONE TO TWO CASHIERS AND ONE STOCKER.
6. EMPLOYEE LOCKERS- EASILY CLEANABLE LOCKERS WILL BE PROVIDED TO ALL EMPLOYEES, REFER TO FIXTURE PLAN FOR LOCATION.
7. MOP SINK- THIS FACILITY WILL BE SUPPLIED WITH A 24"x36" FLOOR MOUNTED MOP SINK WITH APPROVED VACUUM BREAKER FAUCET. WALLS SURROUNDING MOP SINK WILL HAVE FRP TO 8'-0" ABOVE FINISH FLOOR FOR EASY CLEANABLE SURFACE.
8. NSF, ANSI AND UL APPROVED- ALL EQUIPMENT WITHIN THIS FACILITY IS NSF, ANSI AND UL APPROVED, CUT SHEETS FOR EQUIPMENT AVAILABLE UPON REQUEST.
9. FINISH SCHEDULE- A FINISH SCHEDULE IS INCLUDED IN THIS SET OF CONSTRUCTION DOCUMENTS AND LOCATED ON SHEET A4 FOR YOUR USE.
10. QUESTIONS- EXAMINER PLEASE FEEL FREE TO CONTACT THE ARCHITECT AND ENGINEERS LISTED ON SHEET CS1 WITH ANY QUESTIONS OR ITEMS YOU NEED CLARIFICATION ON. ALSO YOU CAN CONTACT KEITH JOHNSON, DIRECTOR OF ARCHITECTURAL SERVICES FOR DOLLAR TREE STORES, INC AT 757-321-5435.

MOLD & MILDEW NOTES

1. THE FOLLOWING REQUIREMENTS SHALL APPLY TO ALL NEW AND REMODEL CONSTRUCTION PROJECTS
2. IN THE EVENT THE CONTRACTOR DISCOVERS, AT ANY TIME DURING DEMOLITION, CONSTRUCTION, AND/OR REMODELING OPERATIONS, EXISTING CONDITIONS THAT COULD INCLUDE THE PRESENCE OF MOLD AND/OR MILDEW, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND THE ARCHITECT/ENGINEER OF RECORD, IN WRITING, OF THE CONCERNS AND/OR SUSPICIONS.
3. CONCURRENTLY, THE CONTRACTOR SHALL BE RESPONSIBLE TO RETAIN A MOLD AND MILDEW CERTIFIED TESTING AGENCY TO PERFORM AN INVESTIGATION AND TESTING AS REQUIRED TO EVALUATE THE NATURE AND EXTENT OF THE PROBLEM. IF THE TESTING AGENCY CONFIRMS HAZARDS, THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN A MINIMUM OF TWO (2) BIDS FROM COMPANIES QUALIFIED AND LICENSED TO PERFORM ALL NECESSARY REMEDIATION WORK, COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS, CODES, AND STATUTES.
4. ONCE DISCOVERY OR SUSPICION OF MOLD AND/OR MILDEW IS MADE, THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICAL PRECAUTIONS TO PROTECT ALL CONSTRUCTION PERSONNEL AND THE PUBLIC FROM EXPOSURE TO MOLD AND/OR MILDEW, AND SUCH PRECAUTIONS SHALL REMAIN IN PLACE UNTIL SUCH TIME AS THE OWNER OR HEALTH AUTHORITY DIRECTS OTHERWISE. CONSTRUCTION OPERATIONS SHALL NOT BE STOPPED OR CURTAILED, EXCEPT IN THE AREA OF MOLD/MILDEW CONCERN, DUE TO THESE REQUIRED PRECAUTIONS.
5. THE CONTRACTOR SHALL MAKE ALL REASONABLE EFFORTS TO AVOID CONDITIONS FAVORABLE TO THE DEVELOPMENT OF MOLD AND MILDEW, ESPECIALLY IN VOIDS WHICH WILL BE CONCEALED AND NOT VENTILATED. IN ALL CASES, INTERIOR SPACES AND INTERIOR FINISHED CONSTRUCTION SHALL BE MAINTAINED IN DRY AND WELL-VENTILATED CONDITIONS.
6. THE CONTRACTOR SHALL COMPLY WITH FEDERAL ENVIRONMENTAL AND OSHA REGULATIONS AND ALL LOCAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND RECOMMENDATIONS REGARDING MOLD AND MILDEW.
7. ALL PENETRATIONS SHALL BE SEALED WATER-TIGHT TO PREVENT MOISTURE MIGRATION FROM ENTERING THE BUILDING OR WALL CAVITIES.
8. ALL CONDENSATE DRAIN PANS SHALL BE CLEANED AND KEPT FREE FROM DEBRIS UNTIL AND WHEN THE FACILITY IS TURNED OVER TO THE OWNER OR TENANT. ENSURE POSITIVE DRAINAGE AT ALL DRAIN PANS. ENSURE THAT ALL "COLD" SURFACES ARE INSULATED AND COVERED WITH A FULLY SEALED AND CONTINUOUS VAPOR BARRIER. ("COLD" SURFACES INCLUDE, BUT ARE NOT LIMITED TO, DOMESTIC COLD WATER PIPING, CHILLED WATER PIPING, INTERIOR RAIN LEADERS, OUTDOOR AIR INTAKES, AND DUCTWORK CARRYING AIR CONDITIONED SUPPLY AIR.)
9. ENSURE THAT THERE ARE NO WATER LEAKS IN CONCEALED PLUMBING CHASES. RETURN AIR PATHS AND PLENUMS SHALL BE KEPT DRY. ALL EXISTING SUPPLY AIR PATHS AND ALL EXISTING DUCTWORK TO BE RE-USED SHALL BE CLEANED AND TREATED AS REQUIRED TO REMOVE THE POTENTIAL FOR MOLD AND MILDEW. ALL DAMP AREAS SHALL BE DRIED THOROUGHLY PRIOR TO ENCLOSURE.

GENERAL FIRE PROTECTION NOTE

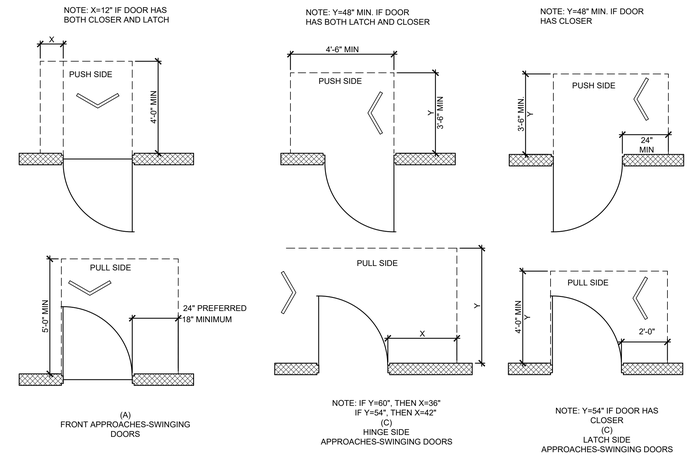
CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LANDLORD'S AND FIRE MARSHAL'S FIRE ALARM REQUIREMENTS, SYSTEM DESIGN/BUILD, APPROVAL BY LANDLORD AND FIRE MARSHAL AND INSTALLATION USING FIRE ALARMS PANELS SPECIFIED BELOW. ARRANGE FOR CONNECTION AND MONITORING BY VECTOR SECURITY ONLY. YOU MUST PROVIDE ONE OF THE ALARM PANELS LISTED BELOW SO THAT ADT SECURITY CAN MONITOR THE SYSTEM:

A. SILENT KNIGHT 5700 - TO BE USED WHEN AHJ REQUIRES AN ADDRESSABLE PANEL.
B. DMP XR100 - TO BE USED AS A BA/FA COMBO PANEL.
C. BOSCH D7412GV2 - TO BE USED AS A BA/FA COMBO PANEL.
D. MIRTONE FS100 4RD - TO BE USED AS A STANDARD FA PANEL

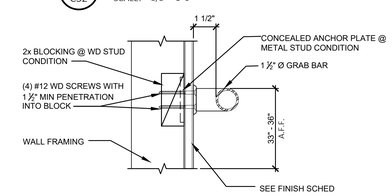
CONTACT ADT SECURITY AT 509-310-3643. ASK FOR THE DOLLAR TREE SUPPORT TEAM AT LEAST 7 DAYS PRIOR TO THE DATE YOU NEED THE PANEL DOWNLOADED SO WE CAN ASSIGN AN ACCOUNT MANAGER. YOU WILL NEED TO PROVIDE ZONE INFORMATION AND VERIFY CORRECT SIGNALS ARE BEING RECEIVED PRIOR TO INSPECTIONS BY THE FIRE MARSHAL. REFER TO NOTES IN SLM FOR ADDITIONAL IMPORTANT INFORMATION.

GENERAL NOTES

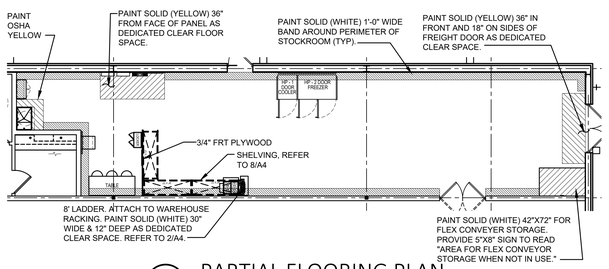
1. MATERIALS, EQUIPMENT, AND ASSEMBLIES SHOWN OR SPECIFIED ARE MINIMUM REQUIREMENTS OR PERFORMANCE STANDARDS. LOCAL JURISDICTIONS MAY REQUIRE PERFORMANCE STANDARDS BEYOND THOSE SHOWN OR SPECIFIED. FURTHERMORE, LOCAL JURISDICTIONS MAY PREVENT THE USE OF COMMONLY ACCEPTED MATERIALS. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL LOCAL REQUIREMENTS FOR LICENSING, MATERIALS, AND PERFORMANCE STANDARDS, PRIOR TO SUBMITTING BID. ALL CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE OWNER'S ATTENTION AND RESOLVED, BY MUTUAL AGREEMENT, PRIOR TO SUBMISSION OF BID OR HIGHEST PRICED WORK. LOCAL REQUIREMENTS VERSUS SPECIFIED REQUIREMENTS SHALL BE INCLUDED IN THE BID.
2. THIS DESIGN CRITERIA IS PROVIDED FOR BUILDING OFFICIAL REVIEW CONVENIENCE ONLY AND IS NOT INTENDED FOR USE BY COMPONENT DESIGNERS OR MANUFACTURERS AS THEIR SOLE DESIGN CRITERIA WITHOUT VERIFICATION. EACH DESIGNER AND/OR MANUFACTURER MUST INDEPENDENTLY CONFIRM ALL CODE CRITERIA WITH WHICH HIS ELEMENTS OR COMPONENTS MUST COMPLY, INCLUDING BUT NOT LIMITED TO LOADING, APPLICATION, FUNCTIONALITY, ETC. PERFORMANCE CRITERIA PROVIDED ELSEWHERE BY A SPECIFIC DISCIPLINE SHOULD BE REGARDED AS THE MINIMUM STANDARDS ACCEPTABLE TO THE CLIENT. EACH SUPPLIER MUST EVALUATE THESE MINIMUMS AGAINST SPECIFIC INDUSTRY STANDARDS AS WELL AS CODES, LAWS, ORDINANCES, AND UNDERWRITER REQUIREMENTS GOVERNING HIS PRODUCT AS WELL AS OWNER INSURER REQUIREMENTS, AS APPLICABLE. THE MOST STRINGENT OF THESE CRITERIA SHALL GOVERN.



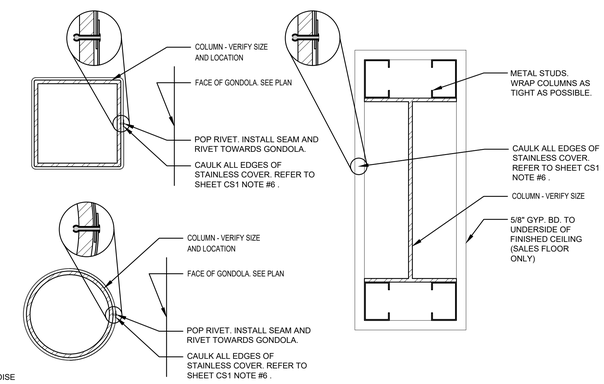
1 CS2 DIRECTION OF APPROACH
SCALE: 3/8" = 1'-0"



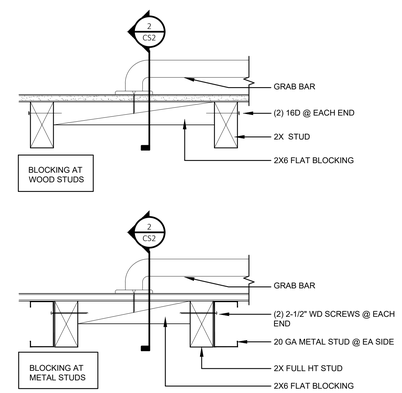
2 CS2 GRAB BAR SECTION
SCALE: 3" = 1'-0"



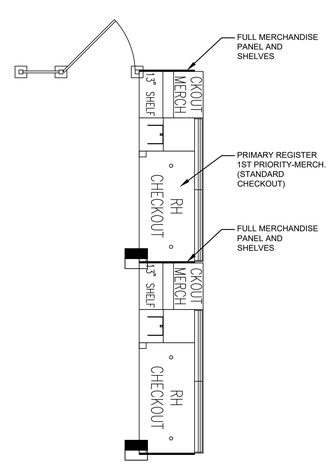
5 CS2 PARTIAL FLOORING PLAN
SCALE: 1/8" = 1'-0"

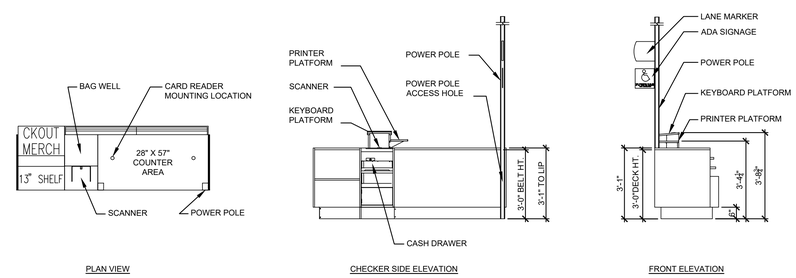


4 CS2 COLUMN DETAIL
SCALE: 3" = 1'-0"



3 CS2 GRAB BAR BLOCKING SECTION
SCALE: 3" = 1'-0"





6 CS2 TYPICAL CHECKOUT
SCALE: N.T.S.

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revisions			

date	12/06/21
project	21000995
designed	BKN
drawn	BKN
checked	CMS

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL FIRM
LICENSE #AE0220
EXPIRES 6/30/22

PROFESSIONAL OF RECORD

KRISTEN M. MACK
License No. A-9222
Expiration Date 12-31-22
PHONE: 314-821-1100

project: FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

drawing: NOTES AND ACCESSIBILITY DETAILS

CS2

EXTERIOR NOT PART OF DESIGN SCOPE. LANDLORD RESPONSIBILITY.

EXISTING SIDEWALK AND SITE CONDITIONS NOT A PART OF PROJECT SCOPE. LANDLORD PROPERTY.

NOTE:
SEE 'GENERAL SITE ACCESSIBILITY NOTES', SHEET CS1, FOR ADDITIONAL REQUIREMENTS.

NOTE:
VERIFY LOCATION OF CHECKOUTS, REACH-IN F/C FIXTURE PLAN. IF THERE IS ANY CONFLICTS WITH LOCATIONS OF CHECKOUTS, CONTACT CONSTRUCTION PROJECT MANAGER FOR DIRECTION.

NOTE:
CONTRACTOR SHALL VERIFY WITH FAMILY DOLLAR CONSTRUCTION PROJECT MANAGER ANY PROPOSED CUSTOM INTERIOR WINDOW GRAPHICS/FILM PRIOR TO BUILDING INFILL WALL AT STOREFRONT.

NOTE:
CONTRACTOR WILL VERIFY ANY FIXTURES LOCATED IN FRONT OF GLAZING. CONTRACTOR WILL ANCHOR TO FLOOR AS REQUIRED PER FAMILY DOLLAR'S SPECIFICATIONS. REFER TO CURRENT FIXTURE PLAN.

F R P (FIBERGLASS REINFORCED PANEL) TO 4'-0" A.F.F. ON SALES FLOOR (ON AREAS NOT COVERED BY GONDOLA UNITS, TYP.) SHALL BE ALMOND WITH "J" CHANNEL TRIM CAP AND "H" CHANNEL PANEL CONNECTORS.

FAMILY DOLLAR

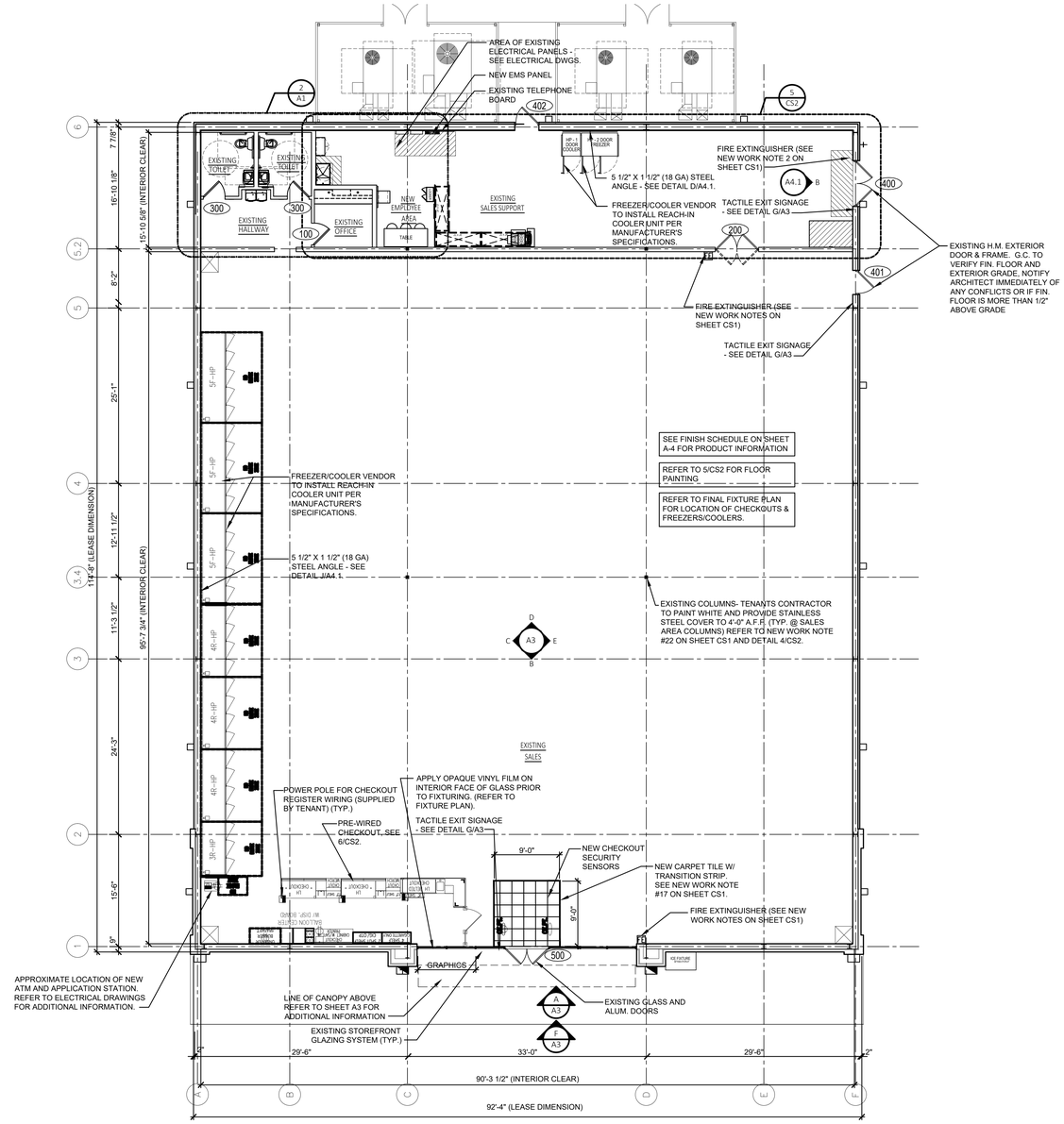
SALES AREA

GENERAL INFORMATION:

SHOPPING CENTER:	PROTO 10,500(FREESTANDING)
CITY:	BUSH
STATE:	LOUISIANA
CEILING HEIGHT (SALES AREA):	12'-0"
SPRINKLERED:	NO

SQUARE FOOTAGES

TOTAL SPACE LEASED:	10,562	SF	
SALES FLOOR AREA:	8,945	SF	
NON-SALES AREA:	1,617	SF	15.3 %
USABLE STOCKROOM:	889	SF	8.4%



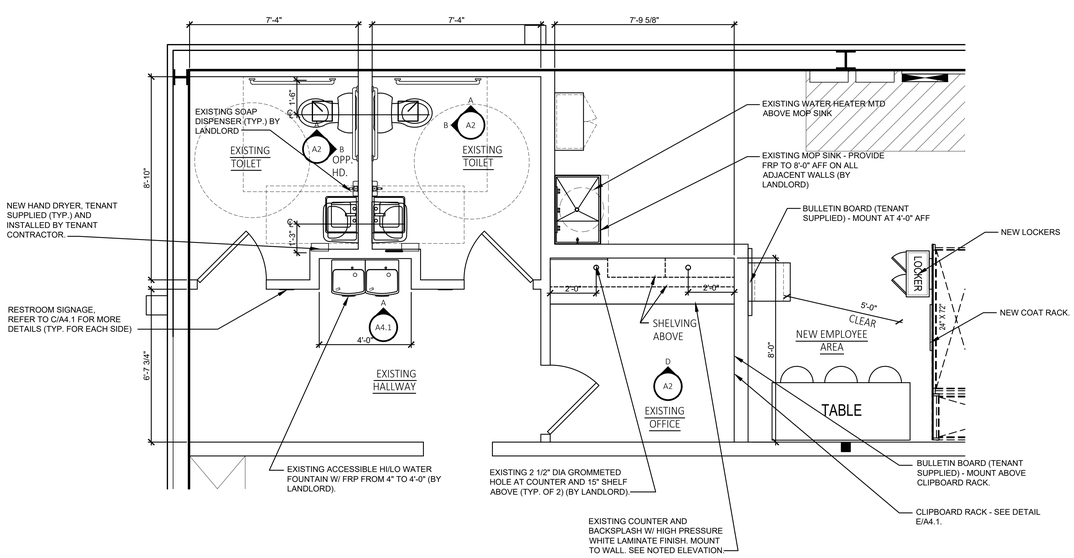
1 A1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

WALL CONSTRUCTION TYPES

1 EXTERIOR DEMISING WALL: EXISTING PRE-ENGINEERED METAL BUILDING WALL WITH INTERIOR GWB. PATCH AND REPAIR WALL AS REQUIRED. FINISH PER FINISH SCHEDULE, SHEET A4.

2 PARTITION WALL: EXISTING METAL STUD AND GWB PARTITION. PATCH AND REPAIR TO LIKE NEW CONDITION. FINISH PER FINISH SCHEDULE, SHEET A4.



2 A1 EXISTING TOILET/OFFICE NEW EMPLOYEE AREA PLAN
SCALE: 3/8" = 1'-0"

TOILET ROOMS AND OFFICE ARE EXISTING. THIS CONSTRUCTION WAS ALREADY PERMITTED AND CONSTRUCTED BY THE LANDLORD. GC TO VERIFY EXISTING DIMENSIONS AS SHOWN, NOTIFY CPM AND ARCHITECT OF ANY DISCREPENCIES.

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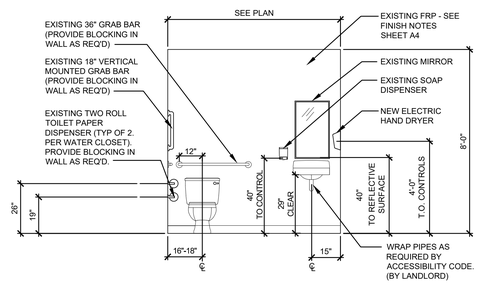
project
FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

drawing
FLOOR PLAN, WALL CONSTRUCTION TYPES AND ENLARGED TOILET PLANS

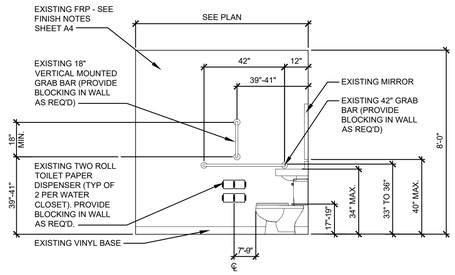
A1

REFLECTED CEILING LEGEND

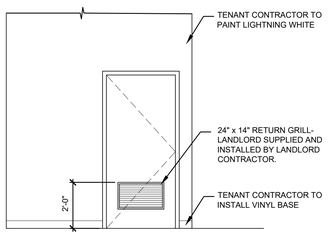
- EXISTING 2'-0"X4'-0" ACOUSTICAL CEILING TILE AND GRID- SEE FINISH NOTE 4.
- EXISTING GWB - PAINT WHITE UNLESS OTHERWISE NOTED.
- NEW 8'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON NIGHT LIGHT CIRCUIT. SURFACE MOUNT TO GWB, ACT CEILING OR PER DETAIL NOTED.
- NEW 8'-0" STRIP LED LIGHT FIXTURE. SURFACE MOUNT TO GWB, ACT CEILING OR PER DETAIL NOTED.
- NEW 8'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK. SURFACE MOUNT TO GWB, ACT CEILING OR PER DETAIL NOTED. FOR FIXTURES WITH 2 LAMPS, THE EMERGENCY BATTERY PACK WILL ONLY OPERATE 1 OF THE LAMPS.
- NL — NEW 4'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON NIGHT LIGHT CIRCUIT. SURFACE MOUNT TO TO GWB, ACT CEILING OR PER DETAIL NOTED.
- NEW 4'-0" STRIP LED LIGHT FIXTURE. SURFACE MOUNT TO ACT, GWB CEILING OR PER DETAIL NOTED.
- EM — NEW 4'-0" STRIP LED LIGHT FIXTURE WITH LAMPS ON EMERGENCY LIGHT CIRCUIT WITH BATTERY PACK. SURFACE MOUNT TO TO GWB, ACT CEILING OR PER DETAIL NOTED.
- EXIST 4'-0" STRIP LIGHT FIXTURE. SURFACE MOUNT TO GWB, ACT CEILING OR PER DETAIL NOTED.
- EXIST 8'-0" STRIP LIGHT FIXTURE. SURFACE MOUNT TO GWB, ACT CEILING OR PER DETAIL NOTED.
- EM — NEW 8'-0" LED STRIP LIGHT WITH INTEGRAL BATTERY UNIT. SURFACE MOUNT TO GWB, ACT CEILING OR PER DETAIL NOTED. EMERGENCY LIGHT - WIRE BATTERY INVERTER TO HOT WIRE. FOR FIXTURES WITH 2 LAMPS, THE INTEGRAL BATTERY WILL ONLY OPERATE 1 OF THE LAMPS.
- EM — NEW 4'-0" STRIP LED LIGHT WITH INTEGRAL BATTERY UNIT. SURFACE MOUNT TO TO GWB, ACT CEILING OR PER DETAIL NOTED. EMERGENCY LIGHT - WIRE BATTERY INVERTER TO HOT WIRE.
- CEILING OCCUPANCY SENSOR MODEL CMR-PDT-2P
- EXIT LIGHT
- SCD — SECURITY CAMERA DOME
- SECURITY CAMERA DOME MTD ON WALL @ 10'-0" AFF.
- VENTILATION FAN
- CEILING HEIGHT ABOVE FINISH FLOOR
- DIFFUSER
- RETURN AIR GRILLE
- POWER POLE
- CONCENTRIC DIFFUSER/RETURN
- MIRROR PANEL
- EXTERIOR EMERGENCY LIGHT AND BATTERY BACKUP.
- INTERIOR EMERGENCY LIGHT AND BATTERY BACKUP.
- SECURITY MONITOR



A A2 EXISTING TOILET ELEVATION
SCALE: 3/8" = 1'-0"



B A2 EXISTING TOILET ELEVATION
SCALE: 3/8" = 1'-0"



C A2 OFFICE ELEVATION
SCALE: 3/8" = 1'-0"

NOTE:

TOILET ACCESSORIES ARE LANDLORD SUPPLIED - INCLUDING GRAB BARS, TOILET PAPER DISPENSER, MIRROR AND HAND DRYER.

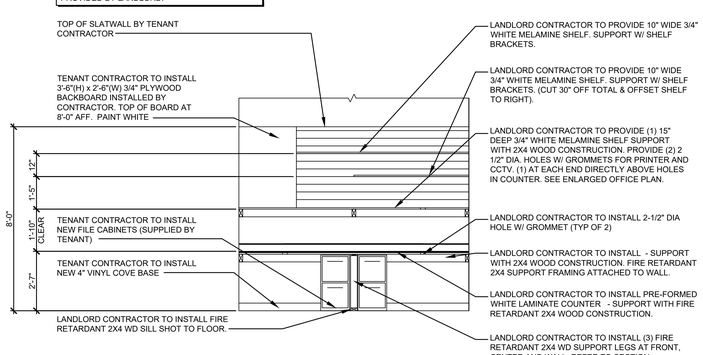
THE NEW ELECTRIC HAND DRYER WILL NOT EXTEND MORE THAN 4" FROM THE WALL ON WHICH IT IS MOUNTED UNLESS IT HAS A LEADING EDGE AT OR BELOW 27" ABOVE FINISHED FLOOR.

FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.

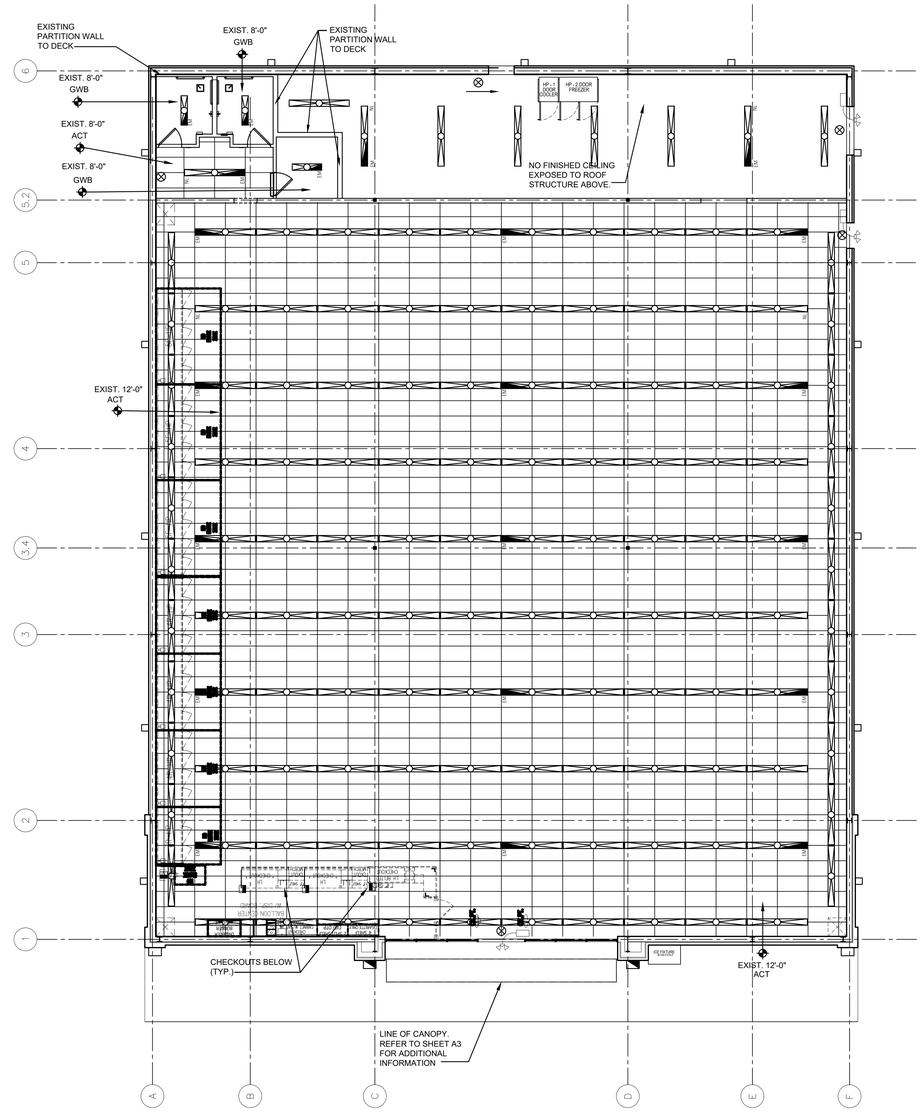
CONTRACTOR SHALL FIELD VERIFY ALL EXIST. PLUMBING FIXTURES AND EXIST. ACCESSORIES (INCLUDING LANDLORD INSTALLED PLUMBING FIXTURES & ACCESSORIES) COMPLY WITH PLANS AND ACCESSIBILITY CODES AND LAWS. CONTRACTOR SHALL VERIFY COMPLIANCE TO FLOOR PLAN, ENLARGED PLANS AND ELEVATIONS THIS SET. NOTIFY CONSTRUCTION PM WITH ANY DISCREPANCIES.

FOR REFERENCE ONLY:

ALL OFFICE FRAMING, COUNTERTOP AND SHELVING, INCLUDING ELECTRICAL SHALL BE PROVIDED BY LANDLORD.



D A2 EXISTING OFFICE ELEVATION
SCALE: 3/8" = 1'-0"



1 A2 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

NORTH

NOTES
1. MOUNT LIGHTS AND SECURITY CAMERA DOMES AT 12'-0" A.F.F. IN SALES AREA AND 10'-0" A.F.F. IN STOCKROOM.
2. SECURITY CAMERA DOMES, MIRROR PANELS, AND POWER POLES ARE SUPPLIED BY TENANT FOR CONTRACTOR'S INSTALLATION.
3. ALL LIGHT FIXTURES ARE SUPPLIED BY LANDLORD AND SHALL HAVE T-8 BULBS AND ELECTRONIC BALLASTS. REFER TO TENANT'S EXHIBIT C.

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date	12/06/21
project	2100995
designed	BKN
drawn	BKN
checked	CMS

CASCO DIVERSIFIED CORPORATION
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KRISTEN M. MACK
License No. A-9222
Expiration Date 12-31-22
PHONE: 314-821-1100

project
FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

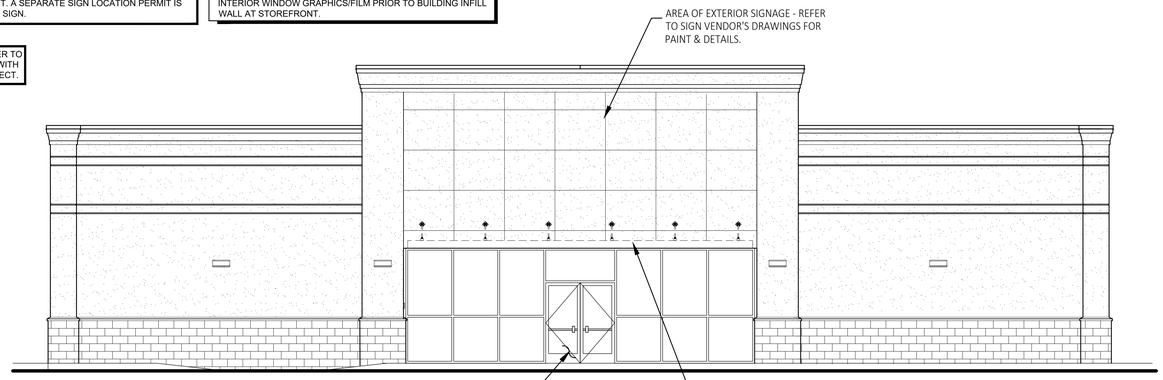
drawing
REFLECTED CEILING PLAN, LEGEND & NOTES, OFFICE ELEVATIONS & TOILET ELEVATIONS

A2

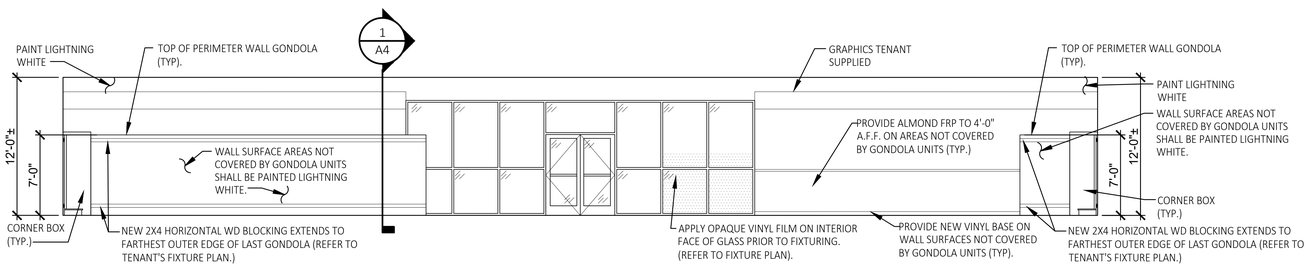
NOTE:
SIGNS, LOCATION, NUMBER AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE SIGN LOCATION PERMIT IS REQUIRED FOR EACH SIGN.

CONTRACTOR SHALL VERIFY WITH FAMILY DOLLAR'S CONSTRUCTION PROJECT MANAGER ANY PROPOSED CUSTOM INTERIOR WINDOW GRAPHICS/FILM PRIOR TO BUILDING INFILL WALL AT STOREFRONT.

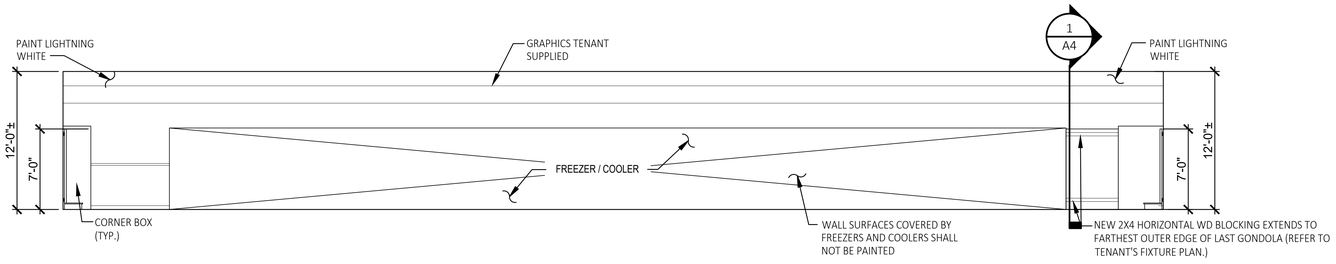
SIGN MANUFACTURER TO VERIFY ELEVATION WITH LANDLORDS ARCHITECT.



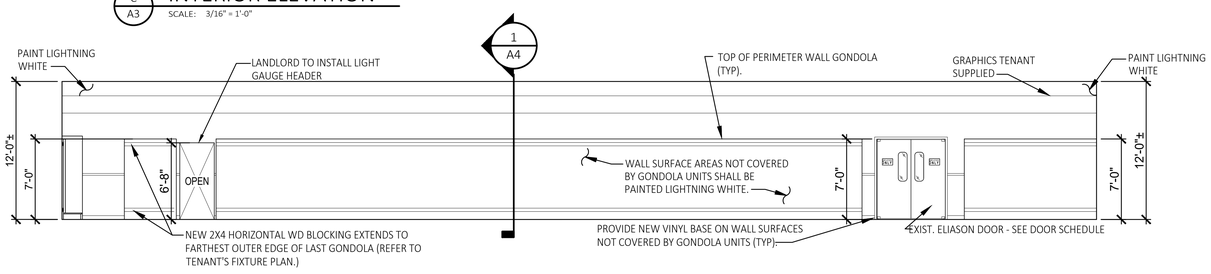
A / A3 EXTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



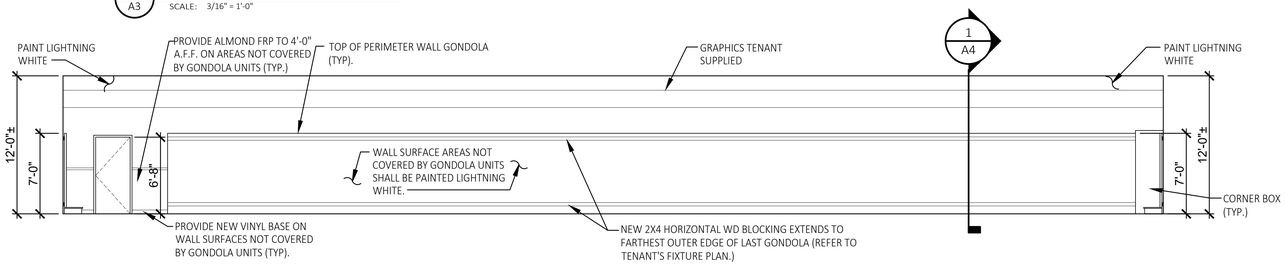
B / A3 INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



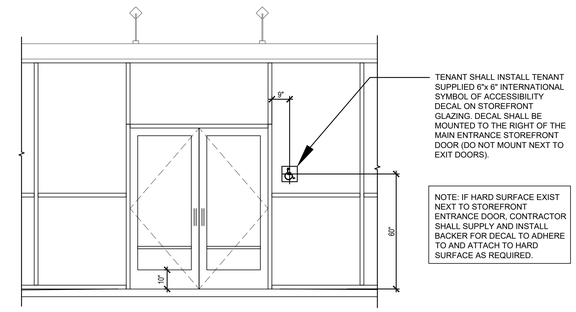
C / A3 INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



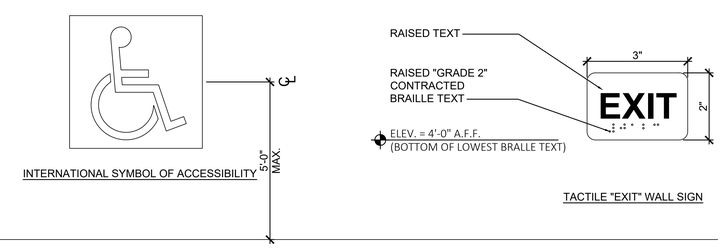
D / A3 INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



E / A3 INTERIOR ELEVATION
SCALE: 3/16" = 1'-0"



F / A3 INTERNATIONAL SYMOBOL OF ACCESSIBILITY DECAL
SCALE: 3/8" = 1'-0"



GENERAL NOTES:

1. SIGNS SHALL COMPLY WITH & CONFORM TO UBC 1997 / ANSI ICC-A117.1 STANDARDS FOR ACCESSIBLE DESIGN OR BY LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.
2. ALL ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE "INTERNATIONAL SYMBOL OF ACCESSIBILITY".
3. ACCESSIBLE SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. ALL SIGNS MUST BE A DISTINCTLY DIFFERENT FROM IT'S MOUNTING SURFACE IN COLOR/ CONTRAST.
4. GENERAL CONTRACTOR TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS. UNLESS OTHERWISE REQUIRED BY LOCAL AUTHORITY, INSTALL PER ADA COMPLIANT ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR WITH CONTRASTING AND RAISED PICTOGRAPH, SANS SERIF LETTERING AND GRADE 2 BRAILLE.

G / A3 ACCESSIBLE SIGNAGE
SCALE: N.T.S.

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date	12/06/21
project	21009995
designed	BKN
drawn	BKN
checked	CMS

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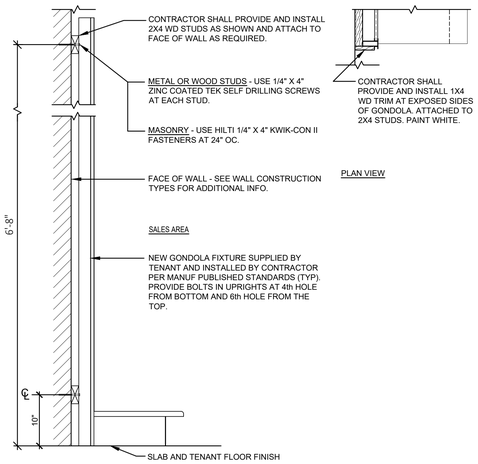
project: FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

drawing: EXTERIOR ELEVATIONS & INTERIOR ELEVATIONS

A3



1 / A4 TYPICAL FIXTURE ATTACHMENT DETAIL

SCALE: 1" = 1'-0"

ROOM FINISH SCHEDULE

SPACE NAME	FLOOR		BASE	WALLS		CEILING	NOTES
	MATERIAL	FINISH		MATERIAL	FINISH		
EXISTING SALES	EXIST CONC	ENTRY CARPET TILE POLISHED CONC	4" VINYL	EXIST CMU/GWB	PT-1 FRP TO 4'-0" AFF	EXIST ACT	1, 3, 4, 5, 7, 11, 12
EXISTING PRE-SALES	EXIST CONC	SEALED CONC 12" PT @ PERIMETER, COLOR PT-8	-	EXIST CMU/GWB	-	-	3, 6, 10
EXISTING OFFICE	EXIST CONC	POLISHED CONC	4" VINYL	EXIST GWB	PT-3	EXIST GWB PT-3	3, 5, 7, 8, 12
EXISTING TOILET 1	EXIST CONC	EXIST SHEET VINYL	EXIST 6" SHEET VINYL	WR GWB	EXIST FRP	EXIST WR GWB PT-3	2, 5, 8, 9
EXISTING TOILET 2	EXIST CONC	EXIST SHEET VINYL	EXIST 6" SHEET VINYL	WR GWB	EXIST FRP	EXIST WR GWB PT-3	2, 5, 8, 9
EXISTING HALLWAY	EXIST CONC	POLISHED CONC	4" VINYL	GWB	PTD WHITE (BY TC)	ACT	3, 4, 5, 7
NEW EMPLOYEE AREA	EXIST CONC	SEALED CONC 12" PT @ PERIMETER, COLOR PT-8	-	EXIST CMU/GWB	-	-	3, 6, 10

PAINT FINISHES/SPECS

TAG	MANUF/COLOR	FINISH	COATS	BASE PRODUCT
PT-1	BENJAMIN MOORE "FD BM #2019-70 - LIGHTINING WHITE"	EGGSHELL	2	BENJAMIN MOORE SUPER HIDE ZERO VOC LATEX - 357
PT-2	BENJAMIN MOORE "FD BM #2019-70 - LIGHTINING WHITE"	SEMI-GLOSS ENAMEL	2	BENJAMIN MOORE SUPER HIDE ZERO VOC LATEX - 358
PT-3	BENJAMIN MOORE "BM FD WHITE"	SEMI-GLOSS ENAMEL	2	BENJAMIN MOORE SUPER HIDE ZERO VOC LATEX - 358
PT-7	BENJAMIN MOORE "BM FD BLACK"	SEMI-GLOSS	2	TOUGH SHIELD ACRYLIC GLOSS - TY 43
PT-8	BENJAMIN MOORE "BM FD WHITE"	SEMI-GLOSS	2	TOUGH SHIELD ACRYLIC GLOSS - TY 43

FINISH NOTES

1. CARPET TILE: MANUFACTURED BY INTERFACE FLOORING SYSTEMS, TENANT SUPPLIED/CONTRACTOR INSTALLED. INSTALL TILES QUARTER TURNED AND PER TENANT'S CRITERIA.
   ENTRY TILE: DECO RIB, STYLE #678609900
   TENANT'S CONTRACTOR SHALL PREPARE FLOOR SURFACE AND COORDINATE CARPET INSTALLATION W/ CARPET INSTALLER.
2. TOILET ROOM COVE BASE: 6" H FLASH COVE BASE WITH MATCHING TERMINATION STRIP ADHERED TO FRP.
3. VINYL COVE BASE: 4" H TOPSET COVE VINYL - ARMSTRONG BLACK. VINYL BASE ON EXPOSED AREAS ONLY. VINYL BASE ONLY ON EXPOSED WALLS IN SALES AREA (NOT BEHIND GONDOLAS AND FREEZERS/COOLERS).

   VINYL COVE BASE TO BE INSTALLED IN PRE-SALES AT MOP SINK AND CABINET ONLY.
4. REPLACE MISSING/DAMAGED ACT. REPLACEMENT OF THE 2'x4' TILES SHALL MATCH EXISTING. CLEAN ENTIRE CEILING AND CEILING GRID WITH A CLEANSING SPRAY TO PROVIDE A UNIFORM WHITE SURFACE.
5. FRP (FIBERGLASS REINFORCED PANEL) - GLASBORD #85 - WHITE W/ PEBBLED EMBOSSED FINISH, BY CRANE COMPOSITES OR EQUAL. IN TOILET ROOMS FROM FLOOR TO 8'-0" AFF, SHALL BE WHITE IN COLOR. FRP TO 8'-0" AFF IN PRESALES BEHIND MOP SINK & UTILITY CABINET ONLY. FRP AT SALES/HALLWAY TO 4'-0" AFF (WHERE NOTED ON ELEVS) SHALL MATCH PT-3 COLOR AND FINISHED WITH "J" CHANNEL TRIM CAP AND "H" CHANNEL PANEL CONNECTIONS.
6. EXISTING CONCRETE FLOOR TO REMAIN, PATCH & REPAIR, AS REQUIRED, TO PROVIDE A SMOOTH SURFACE. APPLY CLEAR ACRYLIC SEALER BY MASTERKURE, CC 300SB, OR FDS APPROVED SUBSTITUTE.
7. POLISH CONCRETE FLOOR PER MANUFACTURER SPECIFICATIONS BY TENANT VENDOR. COORDINATE WITH TENANT.
8. HOLLOW METAL DOORS AND FRAMES TO BE PRIMED AND PAINTED IN FIELD WITH 1 COAT PRIMER AND 2 COATS COLOR TO MATCH WALL SURFACE OF DOOR FACING.
9. SHEET VINYL: ARMSTRONG CONNECTION CORLON "PORCELAIN" #88724.
10. PAINT 12" W BAND ON FLOOR AROUND PERIMETER OF PRE-SALES & EMPLOYEE AREA. TWO COATS, PT-8.
11. EXPOSED STEEL COLUMNS TO BE PAINTED PT-2. ROUND COLUMNS DO NOT GET VINYL BASE.
12. SALES AREA TO RECEIVE LEVEL 4 FINISH. PROVIDE FINISH TO 1'-0" BEHIND FREEZERS/COOLERS AND GONDOLAS. TO FF EVERYWHERE ELSE. CONTRACTOR SHALL ALLOW 72 HOUR CURE TIME.

DOOR SCHEDULE (ALL DOORS, FRAMES EXISTING U.N.O.)

NO.	TYPE	DOOR				DETAILS			FR	HDW	NOTES
		W	H	T	MATERIAL	HEAD	JAMB	SILL			
100	-	3'-0"	6'-8"	1 3/4"	SC WOOD	EXIST	EXIST	EXIST	-	100C	1, 2, 3, 13
200	-	PR 3'-0"	7'-0"	.063"	ALUM/ACRYLIC	EXIST	EXIST	EXIST	-	200A	5, 9, 11
300	-	3'-0"	6'-8"	1 3/4"	SC WOOD	EXIST	EXIST	EXIST	-	300C	1, 2, 3, 8, 12
400	-	PR 3'-0"	7'-0"	1 3/4"	HM	EXIST	EXIST	EXIST	-	400A	2, 3, 4
401	-	3'-0"	7'-0"	1 3/4"	HM	EXIST	EXIST	EXIST	-	400B	2, 3, 4, 10
402	-	3'-0"	7'-0"	1 3/4"	HM	EXIST	EXIST	EXIST	-	400B	2, 3, 4, 10
500	-	PR 3'-0"	7'-0"	1 3/4"	ALUM/GLASS	EXIST	EXIST	EXIST	-	500A	2, 4, 5, 6, 7

DOOR NOTES

1. ALL DOORS, FRAMES, CASED OPENINGS, AND HARDWARE MATERIAL ARE EXISTING/BY THE LANDLORD.
2. DOOR TO MEET ADA DOOR OPENING PRESSURE GUIDELINES, MAX 5 LBS (INTERIOR DOORS) AND 10-15 LBS (EXTERIOR DOORS).
3. ALL DOORS AND FRAMES ARE TO BE PAINTED IN FIELD TO MATCH WALL SURFACE ON EACH SIDE OF DOOR PER EXTERIOR AND INTERIOR FINISH SCHEDULES.
4. CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEP ON ALL EXTERIOR DOORS TO PREVENT WATER, WIND AND DEBRIS INFILTRATION.
5. ELIASON DOOR: GC IS RESPONSIBLE FOR INSTALLING ELIASON DOOR AND HARDWARE. PREVENT METAL ON METAL CONTACT. ELIASON DOORS TO BE FACTORY FINSHED PER DOOR SCHEDULE.
6. PROVIDE NYLON WASHER/GROMMETS AT THE DOOR HANDLES AND CRASH BARS TO PREVENT METAL ON METAL CONTACT.
7. PROVIDE A SIGN POSTED ON THE EGRESS SIDE, ON OR ADJACENT TO THE DOOR STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." THE SIGN SHALL BE IN LETTERS 1" HIGH ON A CONTRASTING BACKGROUND.
8. INSTALL TENANT SUPPLIED SIGNAGE PER DETAIL C/A4.1.
9. INSTALL TENANT SUPPLIED SIGNAGE THAT READS "EMPLOYEES ONLY."
10. PROVIDE SIGNAGE THAT READS "EMERGENCY EXIT ONLY".
11. NEW DOORS - SUPPLIED BY TENANT W/ PRE-INSTALLED BRUSH ALUM COVER PLATE ON SALES SIDE OF THE DOOR.
    EXISTING DOORS - INSTALL ALUM COVER PLATE (SUPPLIED BY TENANT) ON EXISTING DOORS TO REMAIN.
12. MOUNT TENANT SUPPLIED COAT HOOK AT 48" AFF ON BACK SIDE OF DOOR.
13. DOOR TO RECEIVE 24"x14" RETURN GRILLE.

HARDWARE NOTES

1. THRESHOLDS AT EGRESS DOORS SHALL BE NO MORE THAN 1/2" (MAX) HEIGHT AFF.
2. ALL DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES SHALL BE INSTALLED 34" (MIN) TO 48" (MAX) AFF AND SHALL BE "SINGLE-HANDED" OPERABLE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE.
3. WHERE EGRESS DOORS ARE USED IN PAIRS, THE UNLATCHING OF THE LEAF SHALL NOT REQUIRE MORE THAN ONE (1) OPERATION AS MENTIONED IN GENERAL HARDWARE NOTE #2 ABOVE.
4. CONTROLS AND OPERATING MECHANISMS SHALL BE LEVER-TYPE (OR EQUAL) PROVIDING OPERATION WITH ONE HAND AND NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS OF INTERIOR HINGED DOORS SHALL BE NO GREATER THAN 5 POUNDS (22.2 N).
5. DOORS EQUIPPED WITH CLOSERS SHALL BE ADJUSTED SO THAT THE SWEEP PERIOD FROM AN OPEN POSITION OF 70 DEGREES WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.
6. ALL DOORS, FRAMES AND HARDWARE ARE TO BE EXISTING BY LANDLORD, PER TENANT HARDWARE SCHEDULE. PROVIDE AND INSTALL ANDY MISSING HARDWARE AS REQUIRED.
7. ALL DOOR HARDWARE SHALL COMPLY WITH CURRENT ACCESSIBLITY GUIDELINES (ANSI 117.1, ADA GUIDELINES, ETC.).

HARDWARE

HDW # 100C
1 1/2 PAIR HINGES: STANDARD WEIGHT, NON-REMOVABLE PINS
1 MECHANICAL PUSH BUTTON LOCKSET W/ LEVER HANDLE
1 CLOSER
1 PEEP HOLE @ 4'-3" AFF (TENANT SUPPLIED/TENANT GC INSTALL)
1 FLOOR STOP

HDW # 200A (BY ELIASON DOOR, ELIASON EAST SWING DOOR SYSTEM, MODEL: LWP-3)

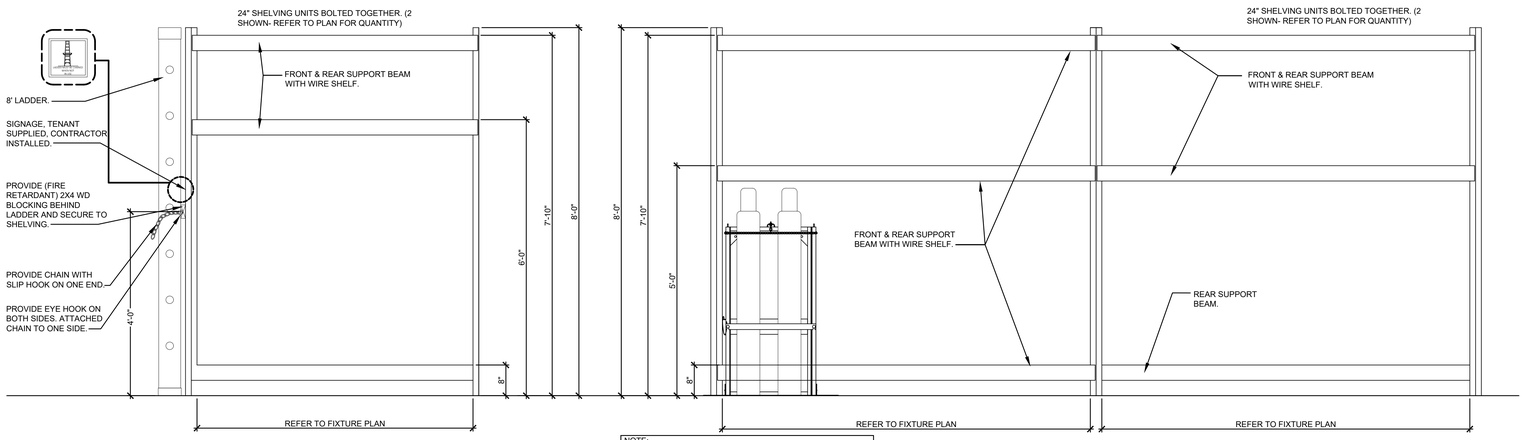
HDW # 300C
1 1/2 PAIR HINGES: STANDARD WEIGHT
1 PRIVACY SET WITH LEVER HANDLE
1 CLOSER
FLOOR/WALL STOP

HDW # 400A
3 PAIR HINGES: 4 1/2" HEAVY WEIGHT, NON-REMOVABLE PINS
1 NON-ALARMED, NON-KEYED PANIC BAR DEVICE
2 FLUSH BOLTS (ON INACTIVE LEAF)
1 DUST PROOF STRIKE
1 ALUM THRESHOLD (1/2" MAX HEIGHT)
2 DOOR SWEEPS
1 WEATHER STRIP
1 RAIN DRIP
1 ASTRAGAL
1 PEEP HOLE @ 4'-3" AFF (TENANT SUPPLIED/TENANT GC INSTALL)
STAND ALONE ALARM-REFER TO B/A4.1 (TENANT SUPPLIED/TENANT GC INSTALL)
2 OVERHEAD HOLDERS/STOPS (TENANT SUPPLIED/TENANT GC INSTALL)

HDW # 400B
1 1/2 PAIR HINGES: 4 1/2" HEAVY WEIGHT, NON-REMOVABLE PINS
NON-ALARMED, NON-KEYED PANIC BAR DEVICE
CLOSER
1 ALUM THRESHOLD (1/2" MAX HEIGHT)
1 SWEEP
1 WEATHER STRIP
1 RAIN DRIP
STAND ALONE ALARM-REFER TO B/A4.1 (TENANT SUPPLIED/TENANT GC INSTALL)

HDW # 500A
HINGES PER STOREFRONT MANUFACTURER
1 ALUM THRESHOLD (1/2" MAX HEIGHT)
2 PUSH PLATES & BAR
2 PULL HANDLES
COMMERCIAL GRADE DEADLOCK W/THUMB TURN ON SALES SIDE
2 CLOSERS W/ STOP ARM
KABA CYLINDER (TENANT SUPPLIED, TENANT GC INSTALL)

CONTRACTOR SHALL VERIFY THAT EXISTING CLOSER DOES NOT HAVE HOLD-OPEN FEATURE. REPLACE WITH NEW CLOSER AS REQUIRED.



NOTE:
1. REFER TO PLAN FOR QUANTITY AND SIZE.
2. TENANT SUPPLIED, CONTRACTOR INSTALLED.
3. SECURE TO FLOOR PER MANUFACTURE'S SPECIFICATIONS.

2 / A4 STOCKROOM SHELVING BRACKET INSTALLATION

SCALE: 3/4" = 1'-0"

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mark	date	by	description
revisions			

date	12/06/21
project	210099/5
designed	BKN
drawn	BKN
checked	CMS

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL FIRM
LICENSE #AE0220
EXPIRES 6/30/22

PROFESSIONAL OF RECORD

KRISTEN M. MACK
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Expiration Date 12-31-22
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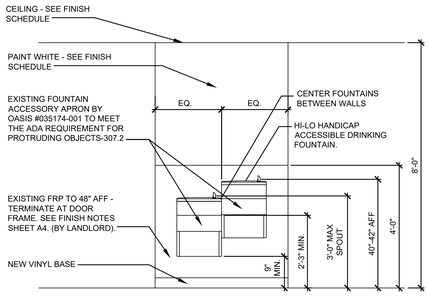
project
FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

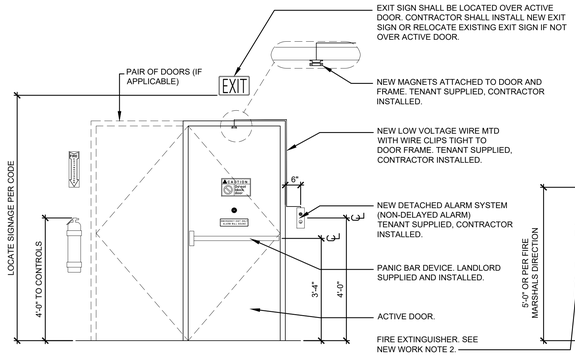
drawing
DETAILS, SECTIONS & SCHEDULES

A4



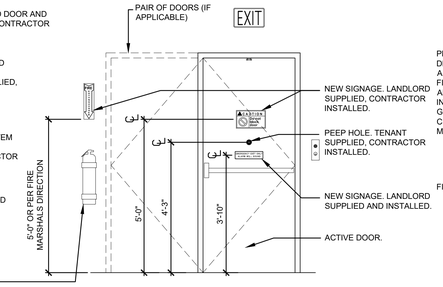
A A4.1 EXISTING WATER FOUNTAIN ELEVATION

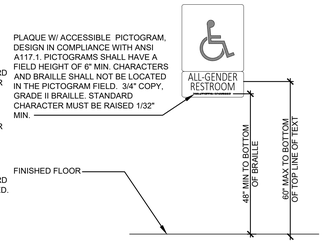
SCALE: 1/2" = 1'-0"



B A4.1 FREIGHT DOOR ELEVATION

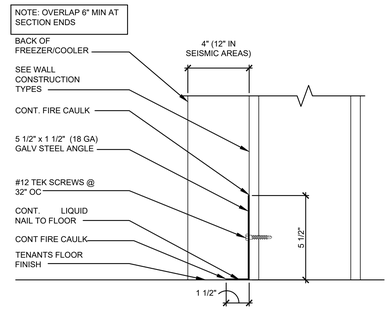
SCALE: 1/2" = 1'-0"





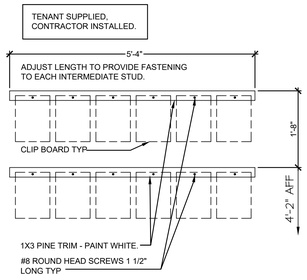
C A4.1 ACCESSIBLE TOILET ROOM SIGNAGE

SCALE: N.T.S.



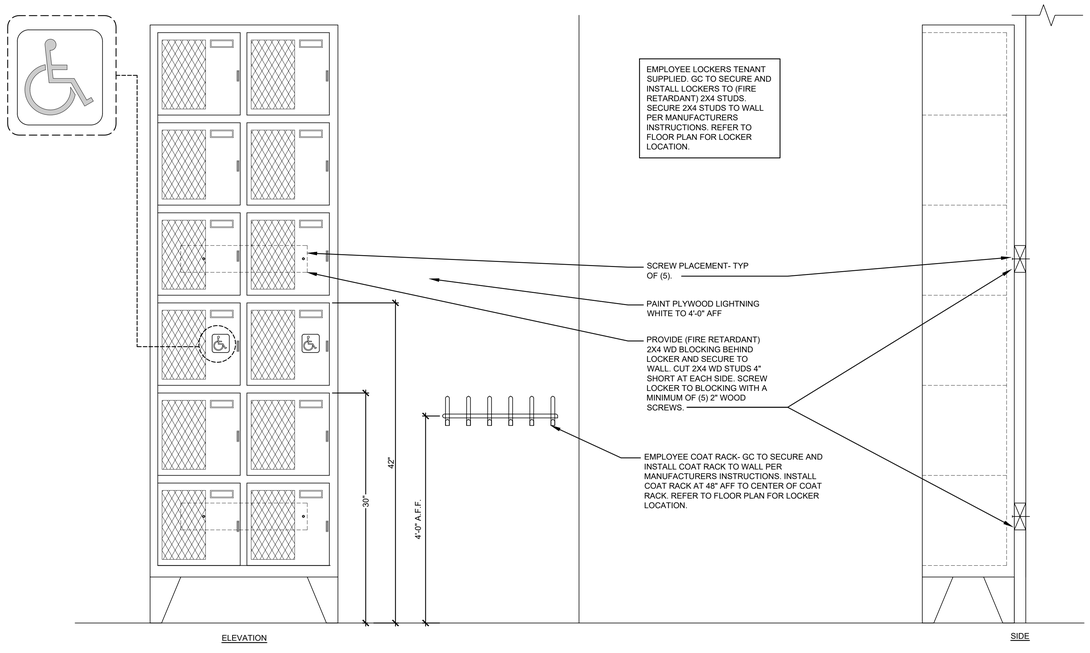
D A4.1 NEW RODENT ANGLE DETAIL

SCALE: 3" = 1'-0"



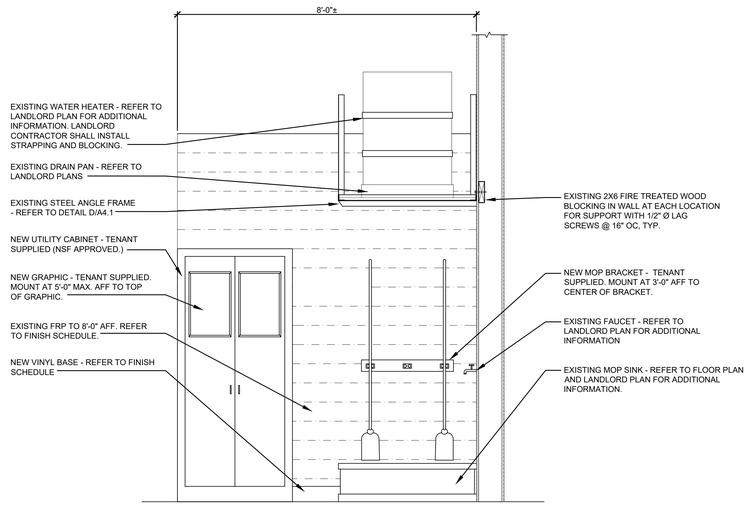
E A4.1 CLIPBOARD RACK ELEVATION

SCALE: 1'-0" = 1'-0"



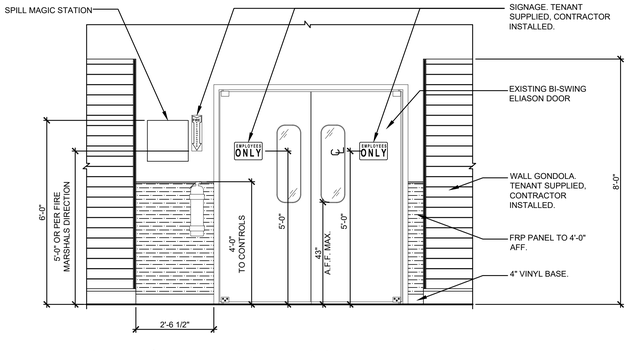
F A4.1 EMPLOYEE COAT RACK & NEW LOCKER ELEVATION

SCALE: 1 1/2" = 1'-0"



G A4.1 EXISTING MOP SINK & NEW UTILITY CABINET ELEVATION

SCALE: 3/4" = 1'-0"



H A4.1 SALES/STOCKROOM DOOR ELEVATION

SCALE: 1/2" = 1'-0"

CASCO
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mark	date	by	description
revisions			

date	12/06/21
project	2100995
designed	BKN
drawn	BKN
checked	CMS

CASCO DIVERSIFIED CORPORATION
ARCHITECTURAL FIRM
LICENSE #AE0220
EXPIRES 6/30/22

PROFESSIONAL OF RECORD

KRISTEN M. MACK
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Expiration Date 12-31-22

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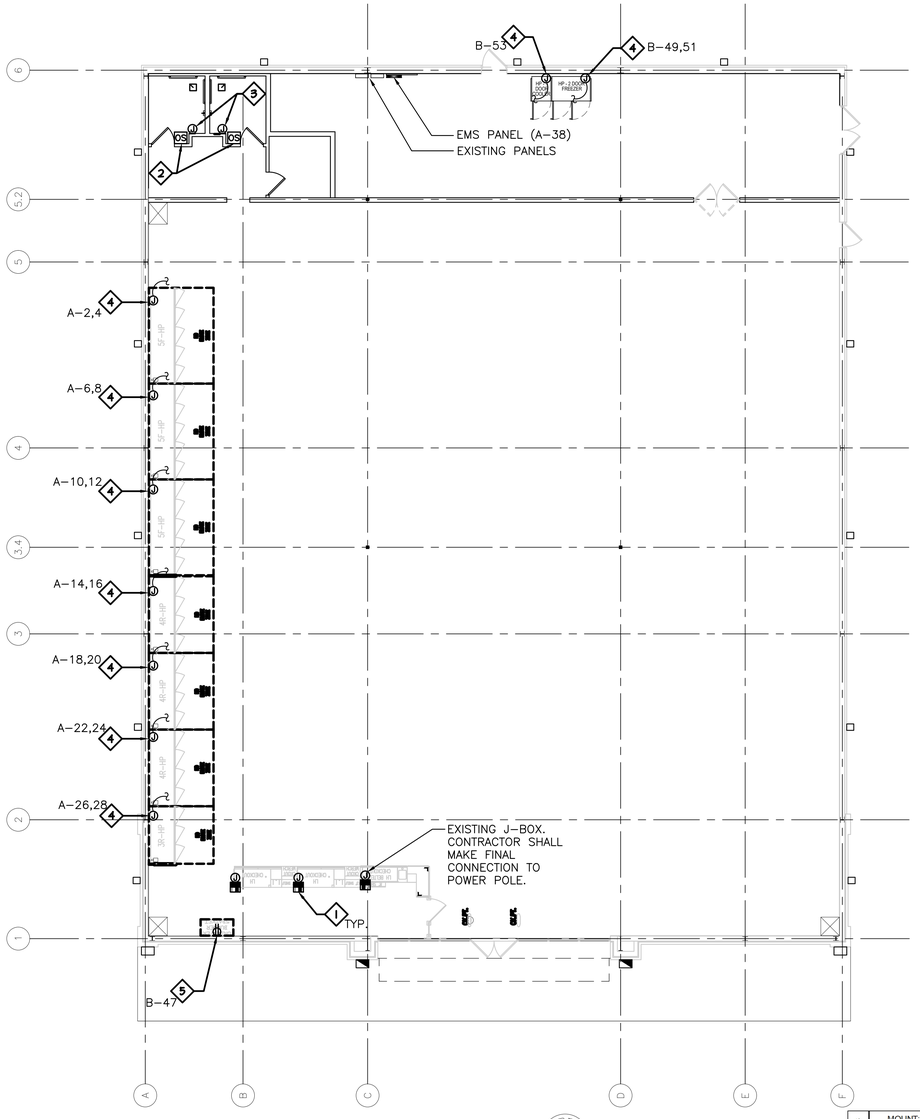
project
FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

drawing
DETAILS AND SECTIONS

A4.1

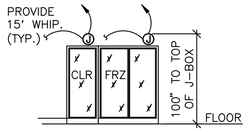


POWER PLAN

SCALE: 1/8"=1'-0"

NORTH

SEE PLANS FOR CIRCUITING ASSIGNMENT. ALL CONDUITS SHALL BE CONCEALED FROM VIEW.

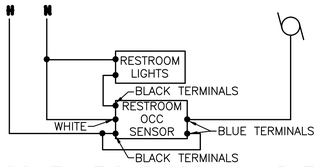


2/E1 COOLER/FREEZER CASE INSTALLATION

SCALE: NONE

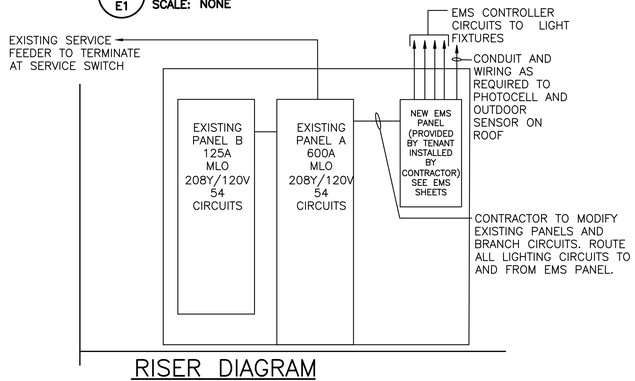
COOLER/FREEZER CASES NOTES:

1. COOLERS/FREEZERS SHALL BE VENDOR SUPPLIED AND VENDOR INSTALLED.
2. COOLERS/FREEZERS WILL BE "HYBRID" UNITS WITH THE COMPRESSOR MOUNTED ON TOP OF THE CASE AND DO NOT REQUIRE AN OUTDOOR CONDENSING UNIT. REFRIGERATION SYSTEM IS PRE-PIPED AND PRE-CHARGED IN THE FACTORY.
3. COOLERS/FREEZERS WILL UTILIZE EVAP-AWAY HEATERS/PANS TO EVAPORATE CONDENSATE INTO THE AIR. THE EVAP-AWAY HEATERS/PANS ARE MOUNTED ON TOP OF CASES. FACTORY INSTALLED CONDENSATE PUMPS ARE USED TO PUMP THE CONDENSATE TO THE EVAP-AWAY HEATER/PANS. NO PLUMBING FLOOR DRAINS ARE REQUIRED.
4. THIS CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING FROM ELECTRICAL PANEL TO 4X4 JUNCTION BOX IN WALL. CONTRACTOR SHALL PROVIDE 15' ELECTRICAL WHIP FROM 4X4 JUNCTION BOX.
5. COOLER/FREEZERS VENDOR WILL CONNECT ELECTRICAL WHIP TO CASE DISCONNECT SWITCH.
6. REFER TO FDS SITE SPECIFIC FIXTURE PLAN FOR DIMENSIONED LOCATIONS OF COOLER/FREEZER CASES AND JUNCTION BOX LOCATIONS PRIOR TO ELECTRICAL ROUGH-IN.
7. JUNCTION BOX FOR CASE SHOULD ALWAYS BE INSTALLED 18" FROM THE RIGHT EDGE OF CASE AND 100' AFF TO TOP OF JUNCTION BOX.
8. IF REQUIRED BY LOCAL CODES, CONTRACTOR SHALL PROVIDE A SAFETY GROUND CONNECTED TO DISCONNECT. CONTRACTOR SHALL CONFIRM WITH LOCAL BUILDING INSPECTOR PRIOR TO BEGINNING ELECTRICAL ROUGH-IN.



1/E1 SCHEMATIC DIAGRAM: BATHROOM OCCUPANCY SENSOR (TYPICAL)

SCALE: NONE



RISER DIAGRAM

SCALE: N. T. S.

RISER DIAGRAM NOTES

1. EXACT INFORMATION WAS NOT AVAILABLE DURING THE DESIGN PROCESS. CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT IS INSTALLED PER LEASE AGREEMENT. REPORT ANY DISCREPANCIES THAT CAN NOT BE RESOLVED IN THE FIELD, TO THE ENGINEER FOR FURTHER INSTRUCTION AND/OR POSSIBLE REDESIGN OF AFFECTED ITEMS.
2. FOR INTERIOR PANELS CONTRACTOR SHALL CONTACT NATIONAL ENERGY AND LIGHTING FOR EQUIPMENT TO BE PROVIDED BY TENANT FOR THE PROJECT.
3. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRE, MISCELLANEOUS ITEMS AND HARDWARE, ETC..., FOR A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
4. THE DEPICTED SERVICE AND PANELBOARDS ARE PER LANDLORD PROVIDED LEASE AGREEMENT. THIS CONTRACTOR'S WORK SHALL FOLLOW THE DESIGN INTENT AND THE CONTRACTOR IS RESPONSIBLE FOR MINOR BRANCH CIRCUITS REASSIGNMENTS. ALL DEVIATION SHALL BE RECORDED ON AS-BUILT RECORDS AND REFLECTED ON FINAL PANEL BOARD SCHEDULED.

EQUIPMENT SCHEDULE

FILE: 2100995 LOAD.xlsm

PLAN MARK	EQUIPMENT SERVED	LOAD	VOLT/ PHASE	MCA	MOCPD	FEEDER	REMARKS
5-DR-RI-FRZ	REACH-IN 5-DR FREEZER	6.43KVA	208/120 /1	30.9A	40A	(3)#8,#10G 3/4"C	HUSSMANN
2-DR-RI-FRZ	REACH-IN 2-DR FREEZER	3.70KVA	208/120 /1	17.8A	20A	(3)#12,#12G 1/2"C	HUSSMANN
4-DR-RI-CLR	REACH-IN 4-DR COOLER	2.25KVA	208/120 /1	10.8A	20A	(3)#12,#12G 1/2"C	HUSSMANN
3-DR-RI-CLR	REACH-IN 3-DR COOLER	3.08KVA	208/120 /1	14.8A	20A	(3)#12,#12G 1/2"C	HUSSMANN
1-DR-RI-CLR	REACH-IN 1-DR COOLER	1.75KVA	120/1	14.6A	20A	(2)#12,#12G 1/2"C	HUSSMANN

GENERAL ELECTRICAL NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ADA LAWS.
2. ALL WIRING SHALL BE IN EMT CONDUIT, UON. ALL CONDUIT SHALL BE RUN CONCEALED EXCEPT WHERE APPROVED BY TENANT. ALL WIRE SHALL BE COPPER #12 MINIMUM AND LARGER AS NOTED. TYPE THHN 600V INSULATED. PROVIDE GREEN INSULATED GROUND CONDUCTOR WITH ALL BRANCH CIRCUITS.
3. EXISTING RECEPTACLES TO REMAIN. PROVIDE ADDITIONAL RECEPTACLES AS REQUIRED BY THE PLAN.
4. PROVIDE BREAKER LOCKS ON ALL SIGN CIRCUITS, DEDICATED RECEPTACLES IN THE OFFICE AND AT THE CHECKOUT, FOR THE ALARM AND NIGHT LIGHTS. SIGN CIRCUITS SHALL BE GROUNDED.
5. ADD CIRCUIT BREAKERS AS REQUIRED. VERIFY SPACE AVAILABLE FOR NEW CIRCUITS. NEW BREAKERS SHALL MATCH EXISTING MANUFACTURER STYLE AND AIC RATING REQUIRED TO MAINTAIN PANEL BOARD RATINGS.
6. CONTRACTOR SHALL REFER TO EMS SHEETS FOR INSTRUCTIONS & RESPONSIBILITIES FOR INSTALLING TENANT SUPPLIED ENERGY MANAGEMENT SYSTEM PRIOR TO BIDDING AND INSTALLATION.
7. THE GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SIGN VENDOR FOR ANY ADDITIONAL EXTERIOR SIGNAGE AND THE ASSOCIATED ELECTRICAL REQUIREMENTS. AFTER THE ELECTRICAL DESIGN IS COMPLETE, IT MAY BE DETERMINED THAT CERTAIN SITES REQUIRE SIDE OR REAR SIGNAGE.
8. CONTRACTOR SHALL SUPPLY AND INSTALL COMPACT FLUORESCENT LIGHT (CFL) BULBS IN EACH LANE LIGHT AT CHECKOUTS, (2) PER LANE LIGHT. CFL'S SHALL BE 13 WATT (EQUIVALENT TO 60 WATT INCANDESCENT), SELF BALLASTED SCREW IN LAMP WITH STANDARD BASE, HELIX (HLX) LAMP SHAPE, NON-DIMMABLE AND AN AVERAGE LIFE OF 10,000 HOURS.
9. ALL OCCUPANCY SENSORS AND POWER POLE JUNCTION BOXES ARE SUPPLIED FOR CONTRACTOR'S INSTALLATION.

POWER PLAN KEYED NOTES

1. TELEPOWER POLE: WITH DIVIDER FOR TELEPHONE/DATA, ISOLATED POWER, AND NORMAL POWER IS FURNISHED WITH CHECKOUT. INSTALL TELEPOWER POLE AT EACH CHECKOUT AREA, WHEN COUNTER IS SET TO EXISTING LANDLORD ROUGH-IN. POWER POLE IS FURNISHED WITH AN ISOLATED GROUND TWIST LOCK RECEPTACLE (CONNECT ISOLATED GROUND CIRCUIT TO THIS RECEPTACLE) AND ONE DUPLEX RECEPTACLE (CONNECT (ONE) NORMAL POWER CIRCUIT TO THIS RECEPTACLE).
2. OCCUPANCY SENSORS: CONTRACTOR SHALL INSTALL OCCUPANCY SENSOR AND RECONNECT EXISTING LIGHTING AND EXHAUST FAN PER DETAIL.
3. HAND DRYERS: CONTRACTOR INSTALL AND CONNECT HAND DRYERS TO EXISTING ROUGH-IN. PROVIDE LOCK-OFF BREAKER HANDLE HARDWARE IN PANEL AS REQUIRED FOR SERVICE.
4. FREEZER/COOLER: INSTALL JUNCTION BOX @ 100" A.F.F. TO TOP OF BOX. PROVIDE 15' LONG WHIP FROM BOX FOR CONNECTION TO EQUIPMENT. REFER TO DETAIL.
5. ICE CREAM BUNKER: PROVIDE RECEPTACLE AND COORDINATE EXACT WITH FIELD REPRESENTATIVE.

ELECTRICAL SYMBOLS

(NOT ALL SYMBOLS ARE NECESSARILY USED ON DRAWINGS)

MISCELLANEOUS

- REVISION MARK
- POWER POLE

POWER AND CONTROL

- ELECTRICAL PANEL
- EMS PANEL
- IG — HUBBELL IG5362 DUPLEX RECEPTACLE (ORANGE)
- DUPLEX RECEPTACLE 20 AMP, 125 VOLT (WHITE) MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
- E — EXISTING DUPLEX RECEPTACLE. CONTRACTOR SHALL EXTENDED EXISTING CIRCUIT TO FIXTURE GONDOLA AND MAKE FINAL CONNECTIONS.
- JUNCTION BOX
- OS — WALL MOUNTED OCCUPANCY SENSOR. SEE DETAIL FOR CONTROL OF TOILET LIGHTING AND FAN.

MOUNT: SURFACE 120/208 3-PHASE, 4W — PANEL A — LUGS: MLO — CAPACITY: 600A — INT CAP: EXISTING
LOCATION: BACK OF BLDG. — DEMAND LOAD: 101A — AV. FAULT:

NOTES	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	NOTES
	1	0.0	0.0	0.0	1.9	0.0	PANEL B	125	3	A	40	2	5-DR-RI-FRZ				3.2		2	B/J
	3	0.0	0.0	0.0	1.9	0.0				B							3.2		4	
	5	0.0	0.0	0.0	3.3	0.0				C	40	2	5-DR-RI-FRZ				3.2		6	B/J
	7						EXISTING	EX	3	A							3.2		8	
	9									B	40	2	5-DR-RI-FRZ				3.2		10	B/J
	11									C							3.2		12	
	13						EXISTING	EX	3	A	20	2	4-DR-RI-CLR				1.1		14	B/J
	15									B							1.1		16	
	17									C	20	2	4-DR-RI-CLR				1.1		18	B/J
	19						EXISTING	EX	3	A							1.1		20	
	21									B	20	2	4-DR-RI-CLR				1.1		22	B/J
	23									C							1.1		24	
	25						EXISTING	EX	3	A	20	2	3-DR-RI-CLR				1.5		26	B/J
	27									B							1.5		28	
	29									C	20	1	EXISTING						30	
	31						EXISTING	EX	3	A	20	3	PHASE LOSS MONITOR						32	A
	33									B									34	
	35									C									36	
	37						EXISTING	20	1	A	20	1	EMS PANEL				0.5		38	A
	39						EXISTING	20	1	B	20	1	EXISTING						40	
	41						EXISTING	20	1	C	20	1	EXISTING						42	
	43						EXISTING	20	1	A	20	1	EXISTING						44	
	45						EXISTING	20	1	B	20	1	EXISTING						46	
	47						EXISTING	20	1	C	20	1	EXISTING						48	
	49						EXISTING	20	1	A	20	1	EXISTING						50	
	51						EXISTING	20	1	B	20	1	EXISTING						52	
	53						EXISTING	20	1	C	20	1	EXISTING						54	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	0.0 KVA	0.0 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	0.0 KVA	0.0 KVA	10KVA + 50% REMAINDER NEC 220.44	36.6 KVA	36.6KVA
A	12.6 KVA	34%	HVAC	0.0 KVA	0.0 KVA	LOAD X 80% (USED MCA IN CALCULATION)	101.5A	101.5A
B	12.1 KVA	33%	MISC	36.6 KVA	36.6 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
C	11.9 KVA	33%	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	2100995 LOAD.xlsm	

THIS PANEL IS FURNISHED AND INSTALLED BY LANDLORD. CONTRACTOR SHALL PROVIDE AND INSTALL ANY WORK SHOWN IN BOLD. BRANCH CIRCUIT BREAKERS REQUIRED BY TENANT FINISH SHALL MATCH EXISTING MANUFACTURER STYLE AND AIC RATING.
NOTES:
A = PROVIDE HANDLE LOCKING HARDWARE TO LOCK CIRCUIT ON AND ALLOW CIRCUIT BREAKER TO TRIP.
B = PROVIDE HANDLE LOCKING HARDWARE TO LOCK CIRCUIT OFF.
C = REQUIRES ISOLATED GROUND CIRCUIT/RECEPTACLES AND BUS.
D = CONTROLLED VIA CUSTOMER LIGHTING CONTROLPANEL.
E = CONTROLLED VIA EMPLOYEE LIGHTING CONTROL PANEL.
F = CONTROLLED VIA LIGHTING CONTROL (VIA PHOTO CELL AND TIME CLOCK FUNCTION OF EMS).
G = CONTROLLED MANUALLY FROM OFFICE MULTI PUSH BUTTON LIGHTING CONTROL STATION FOR EMS OVERRIDE.
H = PROVIDE GROUND FAULT CIRCUIT BREAKER FOR ALL VENDING EQUIPMENT, HAND DRYER, ETC.. AS REQUIRED BY CODE.
J = PROVIDE NEW BREAKER TO MATCH EXISTING AIC RATING AND MANUFACTURER.

MOUNT: SURFACE 120/208 3-PHASE, 4W — PANEL B — LUGS: MLO — CAPACITY: 125A — INT CAP: EXISTING
LOCATION: BACK OF BLDG. — DEMAND LOAD: 19A — AV. FAULT:

NOTES	CKT	LTG	REC	HVAC	MISC	NP	DESCRIPTION	AMP	POLE	Φ	AMP	POLE	DESCRIPTION	LTG	REC	HVAC	MISC	NP	CKT	NOTES
A	1						EXISTING	20	1	A	20	1	EXISTING						2	
	3						EXISTING	20	1	B	20	1	EXISTING						4	
	5						EXISTING	20	1	C	20	1	EXISTING						6	
	7						EXISTING	20	1	A	20	1	EXISTING						8	
	9						EXISTING	20	1	B	20	1	EXISTING						10	
	11						EXISTING	20	1	C	20	1	EXISTING						12	
	13						EXISTING	20	1	A	20	1	EXISTING						14	
	15						EXISTING	20	1	B	20	1	EXISTING						16	
	17						EXISTING	20	1	C	20	1	EXISTING						18	
	19						EXISTING	20	1	A	20	1	EXISTING						20	
	21						EXISTING	20	1	B	20	1	EXISTING						22	
	23						EXISTING	20	1	C	20	1	EXISTING						24	
	25						EXISTING	20	1	A	20	1	EXISTING						26	
	27						EXISTING	20	1	B	20	1	EXISTING						28	
	29						EXISTING	20	1	C	20	1	EXISTING						30	
	31						EXISTING	20	1	A	20	1	EXISTING						32	
	33						EXISTING	20	1	B	20	1	EXISTING						34	
	35						EXISTING	20	1	C	20	1	EXISTING						36	
	37						EXISTING	20	1	A	20	1	EXISTING						38	
	39						EXISTING	20	1	B	20	1	EXISTING						40	
	41						EXISTING	20	1	C	20	1	EXISTING						42	
	43						EXISTING	20	1	A	20	1	EXISTING						44	
	45						EXISTING	20	1	B	20	1	EXISTING						46	
B	47				1.5		ICE CREAM BUNKER	20	1	C	20	1	EXISTING						48	
B/J	49				1.9		2-DR-RI-FRZ	20	2	A	20	1	EXISTING						50	
	51				1.9					B	20	1	EXISTING						52	
B/J	53				1.8		1-DR-RI-CLR	20	1	C	20	1	EXISTING						54	

PHASE BALANCE			LOAD TYPE	CONNECTED	DEMAND	DEMAND FORMULA	TOTAL LOAD	
			LIGHTING	0.0 KVA	0.0 KVA	LOAD X 125% NEC 210.19 CONTINUOUS	CONNECTED	DEMAND
Φ	LOAD	%	RECEPTACLE	0.0 KVA	0.0 KVA	10KVA + 50% REMAINDER NEC 220.44	7.0 KVA	7.0KVA
A	1.9 KVA	27%	HVAC	0.0 KVA	0.0 KVA	LOAD X 80% (USED MCA IN CALCULATION)	19.3A	19.3A
B	1.9 KVA	27%	MISC	7.0 KVA	7.0 KVA	LOAD X 100% NEC 210.19 NON-CONT.	FILENAME:	
C	3.3 KVA	47%	NP	0.0 KVA	0.0 KVA	0 NONCOINCIDENTAL LOADS NEC 220.60	2100995 LOAD.xlsm	

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F = CONTROLLED VIA LIGHTING CONTROL (VIA PHOTO CELL AND TIME CLOCK FUNCTION OF EMS).
G = CONTROLLED MANUALLY FROM OFFICE MULTI PUSH BUTTON LIGHTING CONTROL STATION FOR EMS OVERRIDE.
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J = PROVIDE NEW BREAKER TO MATCH EXISTING AIC RATING AND MANUFACTURER.

CASCO
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mark	date	by	description
revisions			

date	12/06/21
project	2100995
designed	DAM
drawn	DAM
checked	DAT

CASCO DIVERSIFIED CORPORATION
ENGINEERING FIRM LICENSE #4993
EXPIRES 03/31/22

PROFESSIONAL OF RECORD
DAVID A. TRETTER
License No. E-26508
Expiration Date 03-31-22
PHONE: 314-821-1100

project: FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431
ELECTRICAL LOW VOLTAGE PLAN

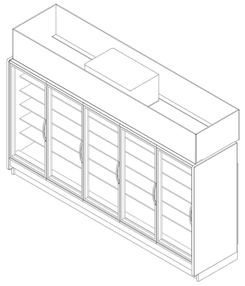
drawing: E1

JNRBHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4, 5 Door & 4' (Dairy/Deli/Beverage)

GENERAL NOTES

- Anti-condensate heat values represent a door with no heat
- Light controls - occupancy sensors are required
  - Option 1: OEM Provided: Lighting controls (on/off) are standard unless otherwise specified
  - Option 2: End User Provided: Light controls should be based on occupancy sensors
- Light wattages below reflect 100% run time. To acquire DOE representation, reduce the light wattages by 42% at 75°F/55%RH
- 4' case length available in 120V R448A condensing unit configuration.
- 2, 3, 4, & 5 door lengths available in 208V R404A condensing unit configuration.



SHIPPING WEIGHT	
Case	Weight
JNRBHSA	---

2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

ALL MEASUREMENTS ARE TAKEN PER: ASHRAE-72-2005 SPECIFICATIONS, HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

JNRBHSA

Rev. Date	Rev. #	Rev. Title
5-14-19	7	NEW OFFERING
2-25-19	6	DATA UPDATE

Hillphoenix

REACH-IN FREEZER/COOLER SHEET 1 OF 8

JNRBHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4, 5 Door & 4' (Dairy/Deli/Beverage)

SYSTEM REQUIREMENT					
Case Length	Volts	Phase	Frequency	Minimum Circuit Ampacity	Maximum Overcurrent Protection
2 Door	208	1	60	16.3	20
3 Door	208	1	60	16.5	20
4 Door	208	1	60	16.6	20
5 Door	208	1	60	18.4	20

*- 24 Hour Energy values includes evaporate fans, standard LEDs, anti-condensate heat & condensing unit

GUIDELINES AND CONTROL SETTINGS					
Case Length	Application	Superheat Set Point @ Bulb (°F)	Discharge Air (°F)	Set Point Differential (°F)	Discharge Air Velocity (FPM)
2 - 5 Door	Beverage	6 - 8	35	6	230
2 - 5 Door	Dairy	6 - 8	30	6	230
2 - 5 Door	Deli	6 - 8	29	6	230

Case Length	24hr Energy Usage (kWh)* DOE
2 Door	6.09
3 Door	8.55
4 Door	10.20
5 Door	15.30

CONDENSING UNIT DATA								
Case Length	Volts	Phase	Frequency	Horsepower	Running Load Amps (RLA) (Amps)	Locked Rotor Amps (LRA) (Amps)	Refrigerant	Lbs. of Refrigerant
2 Door	208	1	60	1/3	4.0	22.0	R404A	2.2
3 Door	208	1	60	1/3	4.0	22.0	R404A	2.6
4 Door	208	1	60	1/3	4.0	22.0	R404A	3.0
5 Door	208	1	60	1/3	5.3	26.5	R404A	3.5

DEFROST CONTROLS				
Case Length	Defrosts Per Day	Run-Off Time (Min)	Fail-Safe (Min)	Termination Temp (F)
2 - 5 Door	2	0	46	44

DEFROST SCHEDULE	
Defrosts Per Day	Time
2	12 a.m. - 12 p.m.

NOTES

- "---" indicates that this feature is not an option on this case model.
- Anti-condensate heat values represent a door with no heat.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- Temperature and defrost settings listed below are recommended start-up settings. Final operational settings may need to be adjusted for the store conditions in which the case operates.
- The recommended evaporator temperatures may need to be adjusted based on system setup, store conditions, etc. The minimum recommended evaporator temperature is 4°F below the listed evaporator temperature.

2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

ALL MEASUREMENTS ARE TAKEN PER: ASHRAE-72-2005 SPECIFICATIONS, HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

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Rev. Date	Rev. #	Rev. Title
5-14-19	7	NEW OFFERING
2-25-19	6	DATA UPDATE

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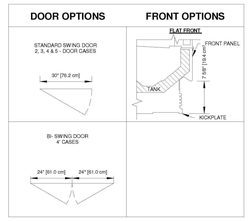
REACH-IN FREEZER/COOLER SHEET 2 OF 8

JNRBHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4, 5 Door & 4' (Dairy/Deli/Beverage)



2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

ALL MEASUREMENTS ARE TAKEN PER: ASHRAE-72-2005 SPECIFICATIONS, HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

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Rev. Date	Rev. #	Rev. Title
5-14-19	7	NEW OFFERING
2-25-19	6	DATA UPDATE

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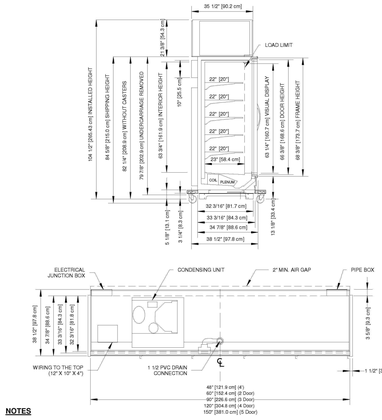
REACH-IN FREEZER/COOLER SHEET 3 OF 8

JNRBHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4, 5 Door & 4' (Dairy/Deli/Beverage)



NOTES

* : STUB-UP AREA.
** : RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS.

- Specialized Base Frame:
  - Case fits through 80" doorway with shipping undercarriage removed.
  - 2" lifting brackets (installed) & 3.25" ship loose risers combine for 5" baseframe once installled.
  - Drain traps ship loose.
- Ends add approximately 1" to case height, 1/2" to the back & 1" to the front.

2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

ALL MEASUREMENTS ARE TAKEN PER: ASHRAE-72-2005 SPECIFICATIONS, HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

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Rev. Date	Rev. #	Rev. Title
5-14-19	7	NEW OFFERING
2-25-19	6	DATA UPDATE

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REACH-IN FREEZER/COOLER SHEET 4 OF 6

JNRZHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4 & 5 Door (Frozen Food)

GENERAL NOTES:

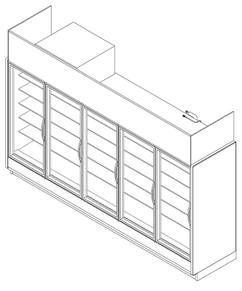
- Lighting Controls and Anti Sweat Heat Controls are Required
- Option 1: OEM Provided:

Occupancy Sensor Based Lighting Controls (On/Off) & Hillphoenix provided embedded Anti Sweat Controls are standard, unless otherwise specified

- Option 2: End User Provided:

Lighting Controls should be Occupancy Sensor Based or on a minimum 8 Hour Off Schedule. Customer provided A/S Heat Controls should be set to 30% minimum off time at 75°F/55%RH

- 2,3,4, & 5 door case lengths are available in 208V R404A / R448A Condensing Unit Configuration



SHIPPING WEIGHT	
Case	Weight
JNRZHSA	---

2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

ALL MEASUREMENTS ARE TAKEN PER: ASHRAE-72-2005 SPECIFICATIONS, HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

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Rev. Date	Rev. #	Rev. Title
10-17-19	7	ENDVIEW UPDATE
9-12-19	6	DATA UPDATE

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2 **REACH-IN FREEZER/COOLER SHEET 5 OF 8**

JNRZHSA (R404A)

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4 & 5 Door (Frozen Food)

SYSTEM REQUIREMENT (R404A)					
Case Length	Volts	Phase	Frequency	Minimum Circuit Ampacity (MCA)	Maximum Overcurrent Protection (MOP)
2 Door	208	1	60	24.1	30.0
3 Door	208	1	60	24.9	30.0
4 Door	208	1	60	29.8	30.0.
5 Door	208	1	60	30.0	30.0

*- 24 Hour Energy values includes evaporate fans, standard LEDs, anti-condensate heat & condensing unit

GUIDELINES AND CONTROL SETTINGS (R404A)				
Case Length	Superheat Set Point @ Bulb (°F)	Set Point Differential (F)	Discharge Air (°F)	Discharge Air Velocity (FPM)
2 Door	3 - 5	6	- 9	300
3 Door	3 - 5	6	- 9	300
4 Door	3 - 5	6	- 9	300
5 Door	3 - 5	6	- 9	300

CONDENSING UNIT DATA (R404A)								
Case Length	Volts	Phase	Frequency	Horsepower	Running Load Amps (RLA) (Amps)	Locked Rotor Amps (LRA) (Amps)	Refrigerant	Lbs. of Refrigerant
2 Door	208	1	60	3/4	9.0	43.0	R404A	2.8
3 Door	208	1	60	1	9.3	46.0	R404A	3.4
4 Door	208	1	60	1 1/4	12.6	55.0	R404A	3.7
5 Door	208	1	60	2	12.0	56.0	R404A	6.2

DEFROST CONTROLS (R404A)			
	Electric Defrost		
Defrosts Per Day	Run Off Time (Min) Electric	Fail-Safe (Min)	Termination Temp (°F)
1	0	46	48

DEFROST SCHEDULE (R404A)	
Defrosts Per Day	Time
1	12 midnight

NOTES:

- "---" indicates that this feature is not an option on this case model.
- Listed discharge air velocity represents the average velocity at the peak of defrost.
- Temperature and defrost settings listed below are recommended start-up settings. Final operational settings may need to be adjusted for the store conditions in which the case operates.
- The recommended evaporator temperatures may need to be adjusted based on system setup, store conditions, etc. The minimum recommended evaporator temperature is 4°F below the listed evaporator temperature.
- The 24 Hour Energy Value is based upon AHRI 1200 test conditions with Hillphoenix provided Lights, occupancy sensor based (on/off) lighting control and dew point based anti sweat heat controller.

2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

ALL MEASUREMENTS ARE TAKEN PER: ASHRAE-72-2005 SPECIFICATIONS, HILLPHOENIX REFRIGERATED DISPLAY CASES FOR SALE IN THE UNITED STATES MEET OR EXCEED DEPARTMENT OF ENERGY 2017 REQUIREMENTS.

JNRZHSA (R404A)

Rev. Date	Rev. #	Rev. Title
10-17-19	7	ENDVIEW UPDATE
9-12-19	6	DATA UPDATE

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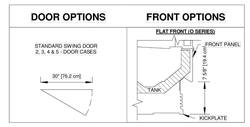
REACH-IN FREEZER/COOLER SHEET 6 OF 8

JNRZHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4 & 5 Door (Frozen Food)



2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

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Rev. Date	Rev. #	Rev. Title
10-17-19	7	ENDVIEW UPDATE
9-12-19	6	DATA UPDATE

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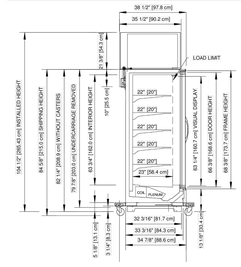
REACH-IN FREEZER/COOLER SHEET 7 OF 8

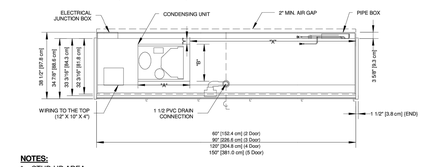
JNRZHSA

High Narrow Reach-In Self Contained Merchandiser
2, 3, 4 & 5 Door (Frozen Food)



CONDENSING UNIT SIZE AND POSITION R404A				
REFRIGERANT	R404 A			
CASE LENGTH	2DR	3DR	4DR	5DR
"X"	19.5"	33.4"	48.3"	33.0"
"Y"	5.5"	4.5"	4.5"	2.0"
"A"	17.5"	24.0"	24.0"	34.1"
"B"	14.4"	17.5"	17.1"	25.2"

CONDENSING UNIT SIZE AND POSITION R448A				
REFRIGERANT	R448 A			
CASE LENGTH	2DR	3DR	4DR	5DR
"X"	14.0"	39.0"	41.0"	41.0"
"Y"	2.0"	2.0"	2.0"	2.0"
"A"	18.0"	18.0"	24.0"	24.0"
"B"	16.0"	16.0"	24.0"	24.0"



NOTES:

* : STUB-UP AREA
** : RECOMMENDED STUB-UP CENTERLINE FOR ELECTRICAL AND HUB DRAINS

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- Drain traps ship loose.
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2017 DOE MINIMUM EFFICIENCY COMPONENT NSF c UL us

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Rev. Date	Rev. #	Rev. Title
10-17-19	7	ENDVIEW UPDATE
9-12-19	6	DATA UPDATE

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REACH-IN FREEZER/COOLER SHEET 8 OF 8

FOR REFERENCE ONLY

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mark	date	revisions	by	description

date 12/06/21
project 21000995
designed
drawn
checked

PROFESSIONAL OF RECORD

FOR INFORMATION ONLY
NO SIGNATURE REQUIRED

PHONE: 314-821-1100

project FAMILY DOLLAR
FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431
drawing REACH-IN UNITS DETAILS AND SPECIFICATIONS

DS1

LOW VOLTAGE WIRING SCOPE OF WORK

GENERAL: THE GENERAL CONTRACTOR WILL HIRE AND COORDINATE INSTALLATION OF LOW VOLTAGE WIRING USING FAMILY DOLLAR'S CLOSED SPEC VENDORS.

1. FAMILY DOLLAR CONSTRUCTION PROJECT MANAGER WILL PROVIDE THE DEVELOPER / ARCHITECT WITH THE ASSIGNED RISK CLASS AT TIME DEAL IS APPROVED AND TO BE CONFIRMED WITH THE FAMILY DOLLAR CONSTRUCTION PROJECT MANAGER AT CONSTRUCTION START.
2. THE ARCHITECT WILL INCLUDE SHEET LV-1.0 FOR RISK CLASS 0 THRU 3 OR LV-1.1 FOR RISK CLASS 4 LOCATIONS IN THE PERMITTED SET OF DRAWINGS.
3. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PULLING AND CLOSING LOW VOLTAGE PERMITS.
4. THE GENERAL CONTRACTOR WILL INSTALL 3/4" OR 1" CONDUIT WITH PULL STRING AT:
   A. FROM THE INTERIOR OF THE STORE DOOR'S TOP LEFT CORNER OF THE AUTOMATIC SLIDING DOOR TO TURNING OUT AT THE DECK LINE FOR BURGLAR ALARM
   B. FROM THE INTERIOR OF THE STORE DOOR'S TOP LEFT CORNER OF THE AUTOMATIC SLIDING DOOR TO TURNING OUT AT THE DECK LINE FOR CLOSED CIRCUIT TELEVISION (CCTV).
   C. FROM TOP EDGE OF NON-SWING SIDE OF ALL EXTERIOR DOORS TO TURNING OUT AT THE DECK LINE
   D. FROM BEHIND THE CASH WRAP 6' A.F.F. WITH A DUPLEX GANG BOX TO TURNING OUT AT THE DECK LINE FOR THE ALARM CONTROL PANEL
   E. ADDITIONAL CONDUIT NEXT TO THE LOW VOLTAGE POINT OF SALES (POS) RUN FOR PANIC ALARMS AT THE CASH WRAPS
5. THE DEVELOPER / GENERAL CONTRACTOR WILL CONTACT FAMILY DOLLAR APPROVED CONTRACTORS NO LATER THAN 9 WEEKS PRIOR TO POSSESSION (12 WEEKS PRIOR TO OPENING) TO SCHEDULE INSTALLATION TIMES WITH VENDORS.
   A) POS PHASE 1 WIRING RISK CLASS 0-4 BASED ON IT POS PHASE 1 VENDOR MAP (1-11-16).
      I) DIRECT SOURCE - CARRIE SMITH, 952-314-0405, CSMITH@DIRECTSOURCE.COM OR
      II) TELAID - KEVIN FRY, 770-903-6571, KFRY@TELAID.COM
   B) CCTV CAMERAS RISK CLASS 0 -3 - SECURITY SOURCE - JENNA ROGOFF, 978-284-2020
   C) CCTV CAMERAS RISK CLASS 4 - INTERFACE SECURITY SYSTEMS (ISS) - CARL VANWY, 940-536-9818
   D) BURGLAR ALARM WIRING RISK CLASS 0-4 - SECURITY SOURCE - JENNA ROGOFF, 978-284-2020
6. ALL LOW VOLTAGE WORK IS TO BE COMPLETED NO LESS THAN FOUR (4) WEEKS PRIOR TO FAMILY DOLLAR POSSESSION (7 WEEKS PRIOR TO OPENING).
7. PRIOR TO THE VENDORS ARRIVAL, THE COMMUNICATION BOARD, AND PERMANENT POWER AND PHONE LINES ARE TO BE INSTALLED.
8. THE POS PHASE 1 VENDOR WILL INSTALL THE TWO (2) CABINETS SUPPLIED BY ISS.
9. ISS, FAMILY DOLLAR'S FLAT RATE VENDOR, WILL HAVE THE NETWORK INSTALLED (IN ONE OF THE TWO (2) CABINETS) 4 WEEKS PRIOR TO POSSESSION (7 WEEKS PRIOR TO OPENING) AND TURNED ON THREE (3) WEEKS PRIOR TO POSSESSION (6 WEEKS PRIOR TO OPENING). THEY WILL DELIVER THE NETWORK CABINETS AT THE SAME TIME THE CASH WRAPS ARE SCHEDULED FOR DELIVERY - 5 WEEKS PRIOR TO POSSESSION (8 WEEKS PRIOR TO OPENING). THEY WILL USE THE DEVELOPER'S CONTACT AS LISTED ON THE DEVELOPER INFORMATION FORM (DIF) IN ACCRUENT FOR VERIFICATION OF POWER AND PHONE INSTALLS.
10. ALL LOCATIONS REGARDLESS OF RISK CLASS WILL HAVE TWO ADDITIONAL IG OUTLETS AND 4'X4' SHEET OF FIRE RETARDANT PLYWOOD (DVR BOARD) IN THE MANAGER'S OFFICE. THE BOARD IS TO BE MOUNTED ON THE SHORT WALL FURTHEST FROM THE OFFICE DOOR, WITH ONE EDGE OF THE BOARD IN THE CORNER. THE BOTTOM OF THE BOARD SHALL BE MOUNTED AT 2'6" A.F.F. THE GC WILL HANG THE DVR BOARD. SEE ELECTRICAL POWER PLAN FOR ADDITIONAL INFORMATION.
11. GENERAL CONTRACTOR WILL MAKE A SCISSORS LIFT AVAILABLE FOR THE VENDORS ON THE DAY OF THE INSTALL
12. EACH LOW VOLTAGE VENDOR SHOULD COMPLETE THEIR WORK IN ONE DAY AND BE READY FOR INSPECTIONS AT THE END OF THE DAY. (RISK 4 LOCATIONS WILL TAKE 2 DAYS FOR CAMERA WIRING.)
13. ALL LOW VOLTAGE VENDORS WILL TERMINATE ENDS SO INSPECTIONS CAN BE COMPLETED AND RETURN TO MAKE FINAL INSTALLATION DURING STORE SET UP. A CHECKLIST DOCUMENT CONFIRMING ALL THE PHASE 1 WORK IS COMPLETED MUST BE COMPLETED FOR ONSITE REVIEW PRIOR TO LEAVING THE SITE.

CAMERA SYSTEM INSTALLATION REQUIREMENTS

CAMERAS - LEAVE 25' OF SLACK LOOP (FOR HORIZONTAL MOVE AT SAME HEIGHT) AT ALL CAMERA LOCATION ENDS. FOR ALL CAMERAS, POSITION VIEWS TO CAPTURE ITEMS LISTED IN CAMERA INSTALLATION POWER POINT PRESENTATION SUPPLIED BY FDS. INSTALL CAMERAS APPROXIMATELY 10'-14' A.F.F. (NO LESS THAN 10' A.F.F.).

GANZ RISK CLASS 0 AND 1:
- CAMERA #1 - ENTRANCE
- CAMERA #2 - REGISTER 1
- CAMERA #3 - REGISTER 2
- CAMERA #4 - OFFICE
- CAMERA #5 - HBA
- CAMERA #6 - HEIGHT STRIP
- CAMERA #7 - LAUNDRY
- CAMERA #8 - STOCKROOM

GANZ RISK CLASS 2 AND 3: CURRENTLY SHOWN ON PLANS
- CAMERA #1 - ENTRANCE
- CAMERA #2 - REGISTER 1
- CAMERA #3 - REGISTER 2
- CAMERA #4 - OFFICE
- CAMERA #5 - HBA
- CAMERA #6 - HEIGHT STRIP
- CAMERA #7 - LAUNDRY
- CAMERA #8 - STOCKROOM
- CAMERA #9 - APPAREL
- CAMERA #10 - COOLER
- CAMERA #11 - AIR FRESHENER/AUTO
- CAMERA #12 - FRONT EXTERIOR

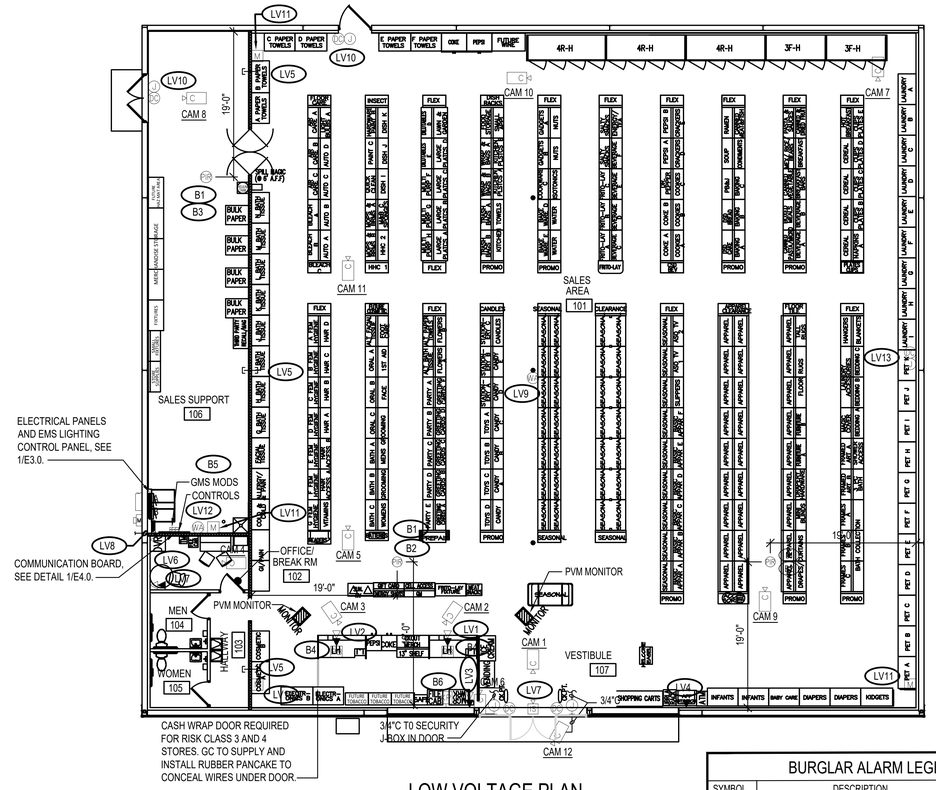
PVM'S - FOR ALL PVM'S, CONNECT CAMERAS TO PVM'S PER LISTED IN CAMERA INSTALLATION POWER POINT PRESENTATION SUPPLIED BY FDS. INSTALL PVM'S WHERE BOTTOM OF PVM IS APPROXIMATELY 9'-10' A.F.F. (BOTTOM OF PVM NO LESS THAN 9' A.F.F.).

GANZ RISK CLASS 0, 1 CAMERA SCHEMATICS AND INSTALLATION INSTRUCTIONS.
CURRENTLY USED BY SECURITY SOURCE TO INSTALL GANZ 16HD DVR - 8 CAMERAS AND 2 PVMS.

GANZ RISK CLASS 2, 3 CAMERA SCHEMATICS AND INSTALLATION INSTRUCTIONS. (LAYOUT AS DRAWN)
CURRENTLY USED BY SECURITY SOURCE TO INSTALL GANZ 16HD DVR - 12 CAMERAS AND 2 PVMS.

CAT5E CABLE INSTALLATION REQUIREMENTS

1. CAT5E CABLES SHOULD BE KEPT AT LEAST 12 INCHES FROM ELECTRICAL LINES AND OUTLETS. AVOID ATTACHING CAT5E TO THE OUTSIDE OF POWER CONDUIT OR HANGING IT NEXT TO EXPOSED LINES. IN OPEN SPACES ABOVE DROP CEILINGS, DO NOT ALLOW CAT5E CABLE TO REST ON TOP OF FLUORESCENT LIGHT FIXTURES.
2. CAT5E CABLES CANNOT BE LAID ON TOP OF THE CEILING TILES OR GRID. THE CABLE SHOULD NEVER BE BENT TO LESS THAN A 1-INCH RADIUS. THIS ALSO CAN LEAD TO WEAKENED OR BROKEN CONDUCTORS. CARE SHOULD BE TAKEN WHEN PULLING CABLES IN TO ENSURE THAT THEY ARE NOT KINKED OR NICKED. WHEN HANGING THE CABLES, AVOID CRIMPING THE CONDUCTOR WIRES. DO NOT USE STAPLES. USE CARE NOT TO OVER-TIGHTEN PLASTIC CABLE TIES. TYING CABLES TO CEILING TILE GRID HANGERS IS NOT PERMITTED. CABLES SHOULD BE TIED TO THE BUILDING SUPPORT STEEL AT A MINIMUM OF 5 FOOT INTERVALS. CABLE TIES SHOULD ONLY BE FINGER TIGHT TO AVOID CRUSHING THE CABLES AS THIS COULD AFFECT THE CABLES PERFORMANCE CHARACTERISTICS. DO NOT USE CABLE TIE GUNS OR STAPLE GUNS. ALL TERMINATING SHOULD BE CARRIED OUT ACCORDING TO THE MANUFACTURERS' INSTRUCTIONS AND GUIDELINES, AND THE STANDARDS FOR GENERIC CABLING SYSTEMS. THE CABLE SHEATH SHOULD BE STRIPPED BACK NO MORE THAN ½ INCH FROM THE POINT OF TERMINATION AND THE TWIST RATES SHOULD BE MAINTAINED. ALL PAIRS SHALL BE TERMINATED. STANDARDS SET FORTH BY EIA/TIA 568B DEFINE THE ACCEPTABLE WIRING AND COLOR-CODING SCHEMES FOR CAT5E CABLES. NO SPLICING, TAPPING OR BRIDGING DEVICES SHALL BE USED BETWEEN SPECIFIED CONNECTING HARDWARE. HOMERUN ALL CABLES FROM THE NETWORK EQUIPMENT DIRECTLY TO THE EQUIPMENT LOCATIONS WITHOUT ANY SPLICES OR JUNCTIONS IN BETWEEN THEM. CABLE INSTALLATION AND TERMINATION METHODS SHALL BE COMPLETED IN A MANNER THAT WILL NOT DEGRADE THE CABLE SPECIFICATION. ALL TERMINATIONS SHALL BE INSERTED BY THE USE OF THE PROPER TOOL.
3. ALL CAT5E CABLING MUST ADHERE TO EIA/TIA STANDARDS AND THE CURRENT NATIONAL ELECTRIC CODE (NEC).
4. PUNCH ALL CABLES TO THE 24-PORT PUNCH PANEL IN THE ISS NETWORK ENCLOSURE. PUNCH ALL CABLES AT THE DEVICE END. ATTACH THE NETWORK PATCH CABLES. ATTACH THE DEVICE PATCH CABLES. TEST THE CAT5E CABLES WITH THE PATCH CABLES ATTACHED AND TEST FOR PASS/FAIL AND CABLE LENGTH.

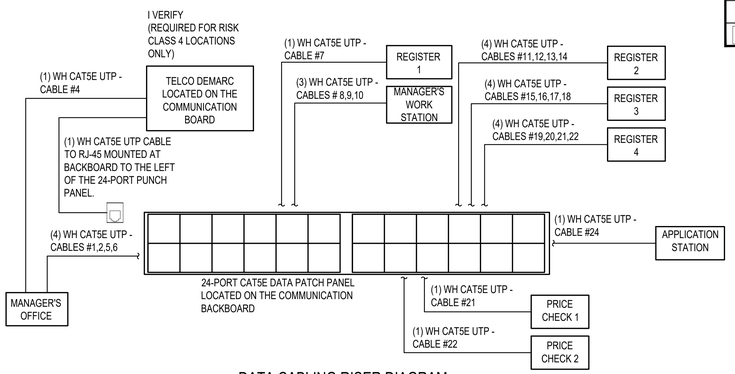


LOW VOLTAGE PLAN

SCALE: 1/8"=1'-0"

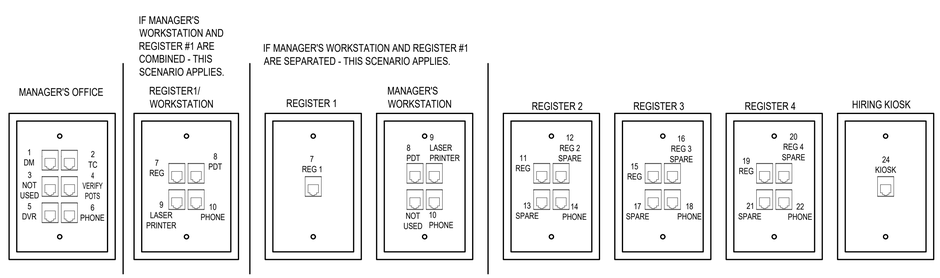
BURGLAR ALARM LEGEND

SYMBOL	DESCRIPTION	QUANTITY
DC	DOOR CONTACT	4
KP	KEYPAD WITH WIRELESS RECEIVER	1
IS	INDOOR SIREN	1
PB	WIRELESS PANIC BUTTON	2
PIR	CEILING MOUNTED MOTION	3
CONTROL BOX	SECURITY CONTROL PANEL	1
GSM_MOD BOX	GSM MODULE MOUNTED INSIDE CONTROL PANEL	1
M	BURGULAR ALARM MOTION SENSOR	4



3 DATA CABLING RISER DIAGRAM

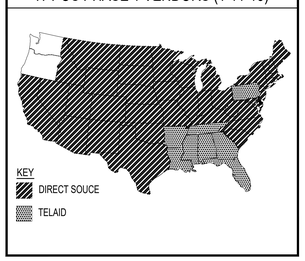
SCALE: NONE



4 RJ45 FACEPLATE PORT LAYOUT

SCALE:

IT POS PHASE 1 VENDORS (1-11-16)



LV# LOW VOLTAGE TAGGED NOTES

1. FURNISH AND INSTALL (1) CAT5E CABLE AND RJ45 TERMINATION PLUG FOR CASHIER'S MODULE #1 FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL AT CASH-LANE #1 LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE NETWORK EQUIPMENT ENCLOSURE.
2. FURNISH AND INSTALL (4) CAT5E CABLES AND RJ45 TERMINATION PLUGS FOR CASHIER'S MODULE #2 FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL AT CASH-LANE #2 LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE NETWORK EQUIPMENT ENCLOSURE.
3. FURNISH AND INSTALL (3) CAT5E CABLES AND RJ45 TERMINATION PLUGS FOR MANAGER'S WORKSTATION FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL AT MANAGER'S WORKSTATION LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE NETWORK EQUIPMENT ENCLOSURE.
4. FURNISH AND INSTALL (1) CAT5E CABLE AND RJ45 TERMINATION PLUG FOR THE APPLICATION STATION FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL AT APPLICATION STATION LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE NETWORK EQUIPMENT ENCLOSURE.
5. PROVIDE A (1") ONE FOOT PIECE OF 3" EMPTY CONDUIT RUNNING THROUGH THE WALL AT LOCATIONS AS SPECIFIED ON THE PLANS. ALL CONDUITS SHALL BE LOCATED 6" TO BOTTOM OF PURLINS. PROVIDE FIRE CAULK AND CAP OFF CONDUIT FOR FUTURE USE BY FAMILY DOLLAR.
6. FURNISH AND INSTALL (5) CAT5E CABLES AND RJ45 TERMINATION PLUGS FOR THE MANAGERS OFFICE FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL AT MANGERS OFFICE LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE TELCO DEMARC.
7. MOUNT ALL DATA OUTLETS IN OFFICE AT 24" A.F.F.
8. PROVIDE 1" CONDUIT WITH PULL STRING THROUGH EXTERIOR WALL AT LOCATION SHOWN AT PANELBOARDS FOR FUTURE ANTENNA CONNECTION. COORDINATE MOUNTING HEIGHT WITH FDS CONSTRUCTION REPRESENTATIVE.
9. FURNISH AND INSTALL (1) CAT5E CABLE AND RJ45 TERMINATION PLUG FOR THE WIRELESS ACCESS POINT (WAP) FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE WIRELESS ACCESS POINT LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE NETWORK EQUIPMENT ENCLOSURE. THE WIRELESS ACCESS POINT SHOULD BE MOUNTED ON THE CENTER COLUMN IN THE SALES AREA BETWEEN 10'-0" AND 11'-0" AFF USING A COLUMN STRAP. THERE SHOULD NOT BE ANY POWER OR CONDUITS ATTACHED TO THE CENTERMOST COLUMN ABOVE 9'-6" AFF. THE WAP WILL BE INSTALLED BY INTERFACE SECURITY SYSTEMS (ISS).
10. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT WITH PULL STRING ABOVE DOOR FOR WIRING OF DOOR CONTACTS. ROUTE CONDUITS TO COMMUNICATION BOARD. PAINT JUNCTION BOX AND EXPOSED CONDUIT TO MATCH WALL COLOR.
11. PROVIDE JUNCTION BOX AND 3/4" CONDUIT WITH PULL STRING AND COVERPLATE AT 9'-0" AFF FOR BURGLAR ALARM MOTION SENSORS. ROUTE CONDUITS TO COMMUNICATION BOARD. COVERPLATE TO MATCH WALL COLOR.
12. FURNISH AND INSTALL (1) CAT5E CABLE AND RJ45 TERMINATION PLUG FOR THE WIRELESS ACCESS POINT (WAP) FROM THE STORE'S NETWORK ENCLOSURE. A 20' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE WIRELESS ACCESS POINT LOCATION. A 5' SERVICE LOOP IS TO BE NEATLY COILED, TIE-WRAPPED, AND ATTACHED TO THE BUILDING SUPPORT STEEL ABOVE THE NETWORK EQUIPMENT ENCLOSURE. THE WIRELESS ACCESS POINT SHOULD BE MOUNTED ON THE WALL ABOVE THE COMMUNICATION BOARD BETWEEN 10'-0" AND 11'-0" AFF. THE WAP WILL BE INSTALLED BY INTERFACE SECURITY SYSTEMS (ISS).
13. PROVIDE JUNCTION BOX WITH 3/4" CONDUIT WITH PULL STRING ABOVE FIREMAN ACCESS DOOR (IF PRESENT) FOR WIRING OF DOOR CONTACTS. ROUTE CONDUITS TO COMMUNICATION BOARD. PAINT JUNCTION BOX AND EXPOSED CONDUIT TO MATCH WALL COLOR.

NOTE:

FLOOR PLAN SHOWN IS TO INDICATE SCOPE OF WORK ONLY AND MAY DIFFER FROM ACTUAL FLOOR PLAN. LOW VOLTAGE CONTRACTORS SHALL OBTAIN MOST RECENT STORE SPECIFIC FIXTURE PLAN FROM FD PROJECT MANAGER AND COORDINATE FINAL LOCATION OF ALL LOW VOLTAGE EQUIPMENT PRIOR TO BEGINNING WORK. LOW VOLTAGE CONTRACTORS SHALL BE RESPONSIBLE FOR COMMISSIONING THEIR WORK AND ASSURING THAT THE SYSTEMS INSTALLED FUNCTION TO FD'S SATISFACTION AND REQUIREMENTS.

ALL EMPTY CONDUIT RUNS AND ADDITIONAL ELECTRICAL POWER DEVICES NOT SHOWN ON POWER PLANS, BUT LISTED ON THIS SHEET TO BE PROVIDED AND INSTALLED BY GC/EC. ALL SECURITY DEVICES ARE TO BE PROVIDED BY SECURITY VENDOR.

WHILE PULLING LOW VOLTAGE CABLE IN EMPTY CONDUITS, PROVIDE ADDITIONAL PULL STRING AT ENTIRE LENGTH OF CONDUIT FOR POSSIBLE FUTURE CABLE INSTALLATION.

JAMB CAM NOTE:
ENTRY DOOR SHALL BE ORDERED WITH A JAMB CAM INSTALLED. THIS WILL HOOK INTO THE CAMERA MONITORING SYSTEM AT THE STORE. CAMERA HOOKUP WILL BE BY LOW VOLTAGE VENDOR.

B# BURGLAR ALARM TAGGED NOTES:

1. IF THE CEILING DOES NOT ALLOW FOR 12'-0" A.F.F. MOUNTING THEN FLUSH MOUNT ON CEILING AT MAXIMUM HEIGHT AND PLACE MOTION SO IT'S PATTERN DOES NOT REACH THE FRONT GLASS WALL.
2. 360° PIR, PENDANT MOUNT @ 12'-0" A.F.F. 19'-0" FROM STORE FRONT AND 19'-0" FROM SIDE WALL.
3. 360° PIR, PENDANT MOUNT @ 12'-0" A.F.F. 19'-0" FROM REAR DOOR, CENTERED IN SALES SUPPORT.
4. WIRELESS PANICS SHALL BE MOUNTED UNDER THE FRONT COUNTER AT EACH REGISTER.
5. CONTROL PANEL SHALL BE MOUNTED IN THE STOCKROOM NEXT TO THE DATA RACK IN THE REAR OF STORE. LOCATE MAIN CONTROLS AT TELCO DEMARQ.
6. KEYPAD TO BE MOUNTED AT THE FRONT OF THE STORE NEAREST PROXIMITY TO THE NEAREST REGISTER.
7. SIREN WILL BE MOUNTED ABOVE THE SALES FLOOR ENTRY DOOR @ 8'-0" A.F.F. ON THE SALES FLOOR SIDE CENTRALLY LOCATED.

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PROFESSIONAL OF RECORD

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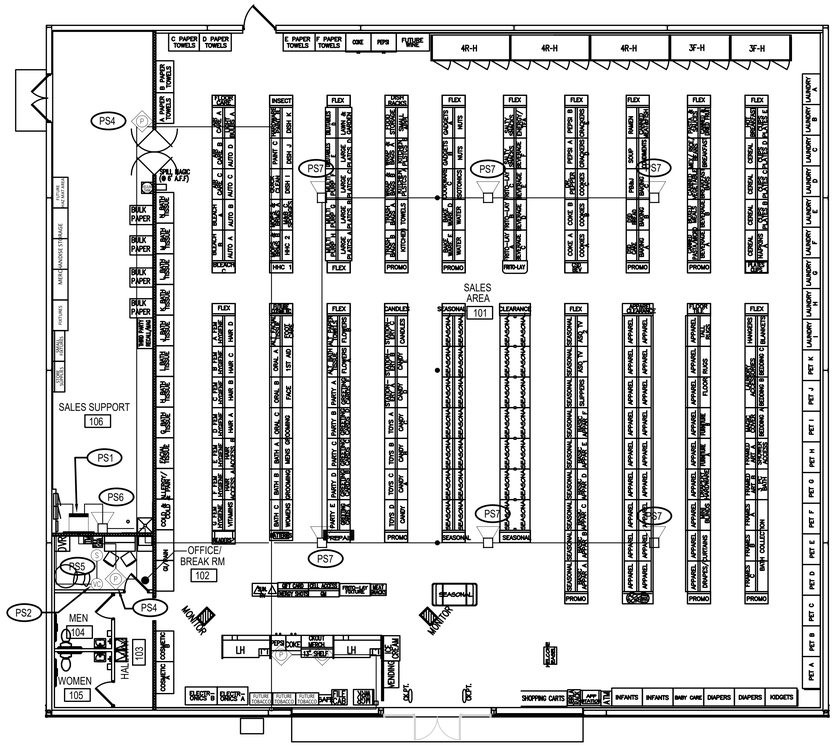
project
FAMILY DOLLAR
FREESTANDER MILITARY ROAD (HWY 21), BUSH LA 70431

drawing
ELECTRICAL LOW VOLTAGE PLAN

LV1



PAGING SYSTEM PLAN

SCALE: 1/8"=1'-0"

PS# PAGING SYSTEM TAGGED NOTES:

1. INSTALL HEAD END (AMP AND CONTROLLER) AT THE TOP RIGHT CORNER OF THE COMMUNICATION BOARD.
2. INSTALL WALL MOUNTED ATTENUATOR (VOLUME CONTROL) IN OFFICE NEXT TO EMS OPEN/CLOSE PUSHBUTTON. EC/GC TO PROVIDE JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF.
3. INSTALL WALL MOUNTED PAGING PHONE IN SALES SUPPORT AREA NEXT TO RECEIVING DOOR. EC/GC TO PROVIDE JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF.
4. INSTALL WALL MOUNTED PAGING PHONE IN OFFICE NEXT TO EMS OPEN/CLOSE PUSHBUTTON. EC/GC TO PROVIDE JUNCTION BOX IN WALL AT 48" AFF WITH 3/4" CONDUIT WITH PULL STRING UP IN WALL TO 12'-0" AFF.
5. INSTALL RECESSED CEILING SPEAKER IN OFFICE. CENTER WITHIN ACOUSTICAL CEILING TILE.
6. INSTALL PAGING HORN IN SALES SUPPORT AREA AT 12'-0" AFF. CENTER ON BACK WALL.
7. INSTALL (6) PAGING HORNS IN SALES AREA. MOUNT TO BOTTOM OF MAIN FRAME BEAMS.

NOTE:

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ALL EMPTY CONDUIT RUNS AND ADDITIONAL ELECTRICAL POWER DEVICES NOT SHOWN ON POWER PLANS, BUT LISTED ON THIS SHEET TO BE PROVIDED AND INSTALLED BY GC/EC. ALL PAGING SYSTEM DEVICES ARE TO BE PROVIDED BY PAGING SYSTEM VENDOR.

WHILE PULLING LOW VOLTAGE CABLE IN EMPTY CONDUITS, PROVIDE ADDITIONAL PULL STRING AT ENTIRE LENGTH OF CONDUIT FOR POSSIBLE FUTURE CABLE INSTALLATION.

NOTE:

- PAGING SYSTEM SHALL BE FURNISHED AND INSTALLED BY BAILIWICK. CONTACT AMY SAMPSON AT 800-935-8840 OR EMAIL AT FMDNSO@BAILIWICK.COM FOR ADDITIONAL INFORMATION.
- CONFIRM ALL LOCATIONS PRIOR TO INSTALL
- DSL EXTENSION FROM DEMARC TO MGR OFFICE
- VOICE RAN FROM DEMARC LOCATION IN STOCKROOM TO EACH LOCATION ON PLAN
- FIRE/BURG INSTALLED WITH RJ31X
- MAIN PHONE AND SPARE IN MANAGERS OFFICE WILL USE SPLIT PAIRS FROM ONE CABLE
- DSL AND DIAL BACKUP IN MANAGERS OFFICE WILL USE SPLIT PAIRS FROM ONE CABLE
- FOR STOCK ROOMS, A HORN IS USUALLY INSTALLED FOR THE CEILING IS USUALLY AT DECK HEIGHT.
- FOR SALES FLOOR AND OFFICE, A HORN OR SPEAKER MAY BE INSTALLED. THIS DEPENDS ON CURRENT CEILING CONDITIONS. IF YOU WERE SHIPPED SPEAKERS, INSTALL SPEAKERS ON THE SALES FLOOR AND OFFICE. IF YOU HAVE HORNS, INSTALL THE HORNS. CONSULT WITH THE BAILIWICK PM IF YOU ARE UNSURE.

LEGEND

- DATA CAT5E PLENUM 4PR WHITE
- VOICE CAT5E PLENUM 4PR WHITE
- AP CAT5E PLENUM 4PR WHITE
- AIPHONE SPEAKER PHONE 22AWG/8 CONDUCTOR PLENUM STRANDED SHIELDED
- PAGING LOCATION 18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED
- PAGING HORN 18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED
- VOLUME CONTROL 18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED
- HEAD END 22AWG/8 CONDUCTOR PLENUM STRANDED SHIELDED 18AWG/2 CONDUCTOR PLENUM STRANDED SHIELDED

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FAMILY DOLLAR

project: FREESTANDER
MILITARY ROAD (HWY 21), BUSH LA 70431

drawing: ELECTRICAL PAGING SYSTEM PLAN

LV2

I. GENERAL CONTRACTOR'S RESPONSIBILITIES:

a. Read Cylon Retail Solutions (CRS) / Dollar Tree (DT) Documentation Package.
b. Review all DT drawings.
- Contact Cylon Retail Solutions Inc. at (888) 211-6789 and submit a fully completed EMS Installation Survey.
- Confirm CRS Survey Form is fully completed and EMAILED to CRS National Account Team at Surveys@Cylon.com or FAXED to (855) 224-0879, ***24 Hours Prior to scheduling the EMS Commissioning.***
- EMS Commissioning dates cannot be scheduled until fully completed EMS Installation Surveys have been received and approved by the CRS National Deployment Team.

c. Schedule remote EMS commissioning ***24 hours prior*** to the requested commissioning date.

II. ELECTRICAL RESPONSIBILITIES:

Power to all EMS equipment and devices must be OFF while terminations are made.

a. Provide all labor and installation material, as required, for a complete and operational EMS for this DT store location.
b. Receive and store all CRS material in a dry and secure place until the EMS installation is completed.
c. The EMS equipment will be supplied by CRS and installed by an approved DT contractor.
d. Review the entire set of plans, perform a job site survey and inventory the CRS equipment to ensure the proper equipment has been ordered and received for a complete and operational CRS EMS.
e. If any material is missing or additional equipment is required, immediately call CRS at (888) 211-6789 to request an order.
f. Approved Contractor shall verify number of controlled lighting circuits against the design, report discrepancies, which cannot be resolved in the field, to the CRS National Account Support Team at (888) 211-6789 and wait for resolution instructions.
g. Coordinate the EMS installation with the Mechanical Contractor to avoid any interference that may delay progress during construction.
h. Perform all work in accordance with all National, State and Local Codes for this project.
i. All EMS cables are to be installed per National and Local Codes. It is the Electrical Contractor's responsibility to determine if National and Local Codes permit Class 2 cables to be installed exposed within the building structure or if a full conduit system is required.
j. EMT connectors and bushings are to be installed at the top of every conduit sleeve and threaded connector to protect EMS cables from abrasions.
k. All cables are to be clearly and distinctly labeled within one foot of both ends.
l. Furnish and install all required conduit, boxes, wire ways, fittings, straps, hangers and wiring for a complete and operational EMS as required.
m. Furnish and install a dedicated 120 VAC circuit with breaker lock for the EMS Panel.
i. Label breaker: DO NOT TURN OFF / EMS
ii. Confirm wiring is completed as per this documentation package before applying power. Improper wiring will cause damage to equipment.
n. Mount the EMS Panel adjacent to the electrical panels.
o. Install an Ethernet cable run from the eSCi RJ-45 jack located in the EMS Panel to the network switch specified by the DT networking team.
p. Call CRS at 888.211.6789 to verify Network Connectivity **before proceeding with the EMS installation**.
q. Install and terminate the CRS BACnet communication trunk, in a daisy chain fashion, from the EMS Panel to each of the Thermostat Controls and all other BACnet devices. (see this documentation package for requirements)
r. When applicable, mount the Auxiliary I/O Panel adjacent to the EMS Panel and ensure both panels are connected to the same Earth Ground.
s. When applicable, ensure the Auxiliary I/O panel is connected in series with the other BACnet devices on the BACnet communications trunk.
t. Mount and terminate the Outdoor Sensor Assembly (OSA) on the HVAC unit that resides closest to the EMS Panel. When installing, make sure OSA enclosure is:
i. Mounted on a 1" rigid riser with an 'LB' secured to the back of the OSA (Refer to OTS/OLS Detail as shown on EM-4)
ii. Mounted 3 feet above the HVAC unit
iii. Mounted facing north, away from the combustion heat blower and condenser fan
iv. Weather-proofed
v. Mounted with the white PVC sensor pointed downward
vi. Positioned to allow the Outdoor Light Sensor exposure to full ambient daylight but is not shadowed or exposed to any artificial illumination
u. When applicable, mount and terminate the CO2 Sensor as per the location specified by the DT drawings and this documentation package.
v. Mount and terminate the Override Button assembly as per the location specified by the DT drawings and this documentation package.
w. Do not adjust the DIP Switches for the EMS Override Buttons. They are factory preset for:
i. MSTP Address = 35
ii. Baud Rate = 19200
iii. Network Termination = Off
x. When applicable, mount and terminate the Indoor Ambient Light Sensor(s) as per the location specified by the DT drawings and the Special Instructions in this documentation package.
y. Install and wire load sides of lighting contactors for designated lighting loads and zones as required by DT and this documentation package
i. Employee Zone = 40% of Sales floor and 100% of all Stockroom areas
ii. Customer Zone = Remaining 60% of Sales Floor
iii. Exterior Zone = Building Exterior and Parking lights
iv. When applicable, Daylight Zone = First two (2) rows of lights along the store-front windows.
z. Furnish and install a 3-pole, 20-amp breaker/disconnect at the Main Electrical Distribution Panel (MDP) for the Phase Loss Power Monitor and Energy Meter.
aa. When applicable, furnish and install a 3-pole, 20-amp breaker/disconnect at each Electrical Distribution Panel for each additional Phase Loss Power Monitor
bb. Terminate wiring as specified in this documentation package.
i. Label Main Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE & ENERGY METER
ii. When applicable, label auxiliary Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE
iii. Confirm wiring is completed as per this documentation package before applying power. Improper wiring will cause damage to equipment.
cc. Install and terminate the CRS Modbus communication trunk from the eSCi Controller to the Energy Meter. (Refer to OEM instructions and this documentation package for requirements)
dd. Permanently mount and terminate the Electrical Meter in close proximity to the main utility power feed.
ee. Permanently mount the 3 Current Sensors, one each, around the 3 phases of the main utility feed.
ff. Terminate the 3 Current Sensors to the Energy Meter, correctly maintaining Electrical Phase and Meter Input relationships.
gg. Using the OEM Instructions, configure the EMS Energy Meter for:
i. Proper Current Transformer (CT) Ratio - Current Sensor Primary (Ct) = 400 - 1500 Amp
ii. Nominal Line to Line Voltage = 480 Vac
iii. Baud Rate = 19200
iv. Address = 1
v. Voltage Input Mode = True 3 Phase
vi. CT Auto Rotation = Auto Rotate

Note: *The EMS is designed to monitor a single primary 3 phase power feed. Contact CRS for support when attempting to monitor multiple power feeds*

hh. Provide a technician, on site, for an approximate 2-hour remote telephone checkout with CRS.
ii. Coordinate with the Mechanical Contractor to verify HVAC control during the CRS remote telephone checkout.
jj. Prior to scheduling the Remote Commissioning Checkout, the Electrical Contractor will:
i. Confirm CRS Survey Form is completed and EMAILED to CRS National Account Team at Surveys@Cylon.com or FAXED to (855) 224-0879, ***24 Hours Prior to scheduling the EMS Commissioning***.
ii. Confirm the Mechanical Contractor will be present during the CRS Remote Commissioning Checkout.
iii. Contact CRS to schedule the EMS Commissioning, ***24 hours prior*** at (888) 211-6789.

III. MECHANICAL RESPONSIBILITIES:

Power to all EMS equipment and devices must be OFF while terminations are made.

a. Provide labor and installation material, as required, for a complete and operational EMS for this DT store location.
b. Verify number and type of HVAC units against the design, report discrepancies, which cannot be resolved in the field, to the CRS National Account Support Team at (888) 211-6789 and wait for resolution instructions.
c. Perform all work in accordance with all National, State and Local Codes for this project.
d. Mount and terminate the SimpleSTAT module(s) as per the location(s) specified by the DT drawings and this documentation package.
e. Utilizing 18/8 cable between the SimpleSTAT module and HVAC unit.
i. Terminate C, R, G, Y1, Y2, W1 and W2 on the HVAC unit for control of fan, cooling and heating.
ii. Terminate the communications cables to the SimpleSTAT(s) as shown in this documentation package.
f. Set address on the SimpleSTAT module, as shown in the SimpleSTAT installation instructions. When communications to the EMS is in a failed state, the SimpleSTAT will operate 24/7 as a stand-alone STAT using the following temperature setpoints:
i. Default Cooling Setpoint = 72.0 °F
ii. Default Heating Setpoint = 68.0 °F
g. Utilizing the Downrods and associated hardware, specified by the DT drawings and the "Special Instructions" section of this documentation package, mount and terminate the Remote Space Temperature Sensor(s) as per the location(s)specified by the DT drawings.
i. In close proximity to the zone return air grille and away from supply air drafts.
ii. Install and secure the Remote Temperature Sensor wire to the Thermostat Controller.
h. Mount the Supply Duct Temperature sensor of each HVAC unit.
i. The remote Supply Duct Temperature Sensor should be mounted in the main Supply Air Duct on the interior side of the HVAC unit's building penetration.
ii. Utilizing 18/2 wire, terminate the supply duct temperature sensor wire to the Thermostat module as shown in this documentation package.
i. Provide Electrical Contractor with roof plan layout, showing location of HVAC Units on the roof.
j. Provide a technician, on site, for an approximate 2-hour remote telephone checkout with CRS.
k. Coordinate with the Electrical Contractor to verify proper HVAC control during the CRS Remote Commissioning Checkout.

IV. CYLON RETAIL SOLUTIONS RESPONSIBILITIES:

a. The following services will be supplied by CRS:
i. Shipping of all contracted EMS components for the job.
ii. Programming and downloading of CRS equipment and software.
iii. Provide telephone technical support at (888) 211-6789.
iv. Remote system checkout with installing contractor
b. Verification of proper operation of the following items by exercising the controlled load:
i. Timed operation of all applicable EMS lighting loads - Interior and Exterior.
ii. Outside light level control of all applicable EMS lighting loads - Interior and Exterior.
iii. Operation of HVAC heating stages, as indoor environment allows.
iv. Operation of HVAC cooling stages, as indoor and outdoor environments allow.
v. Verification of HVAC unit sensor readings - space and supply temperatures.
c. If any end unit (e.g. lighting, HVAC unit, supply air fan, etc.) cannot be operated for mechanical or electrical reasons, CRS will verify the proper operation of the EMS control devices (e.g. contactors, discrete I/O) leading up to the unit, in order to fully verify the operations of the EMS.
d. CRS will issue an "EMS Check-Out Number" once all store systems are verified as operational.

DEVICE LEGEND

SYMBOL	DESCRIPTION
SSC	HVAC UNIT CONTROLLER (SIMPLESTAT)
TRC	HVAC UNIT CONTROLLER (TRC)
DTS	DUCT TEMPERATURE SENSOR
STS	SPACE TEMPERATURE SENSOR
OLS	OUTDOOR LIGHT SENSOR
OHS OTS	OUTDOOR TEMPERATURE & RELATIVE HUMIDITY SENSORS
RTS	REMOTE TEMPERATURE SENSOR
CO_2S	INDOOR CO_2 SENSOR
IHS	INDOOR RELATIVE HUMIDITY SENSOR
ILS	INDOOR LIGHT SENSOR
DOOR SENSOR	O/H DOOR SENSOR
SID	SECURITY INTERFACE DEVICE
eSC	eBUILDING SYSTEM CONTROLLER
ROS	REMOTE OVERRIDE SWITCH
OCC	OCCUPANCY SENSOR

CABLE LEGEND

KEY	SIZE	TYPE	MFG.	MFG. PART #
10	18/2	SHIELDED PLENUM	WINDY CITY	# 002320-S
12	18/4	SHIELDED PLENUM	WINDY CITY	# 002340-S
14	18/8	NON SHIELDED PLENUM	WINDY CITY	# 002392-S
16	18/10	NON SHIELDED PLENUM	WINDY CITY	# 002393-S
18	24/8	CAT5 E PLENUM	WINDY CITY	# 5556140-S

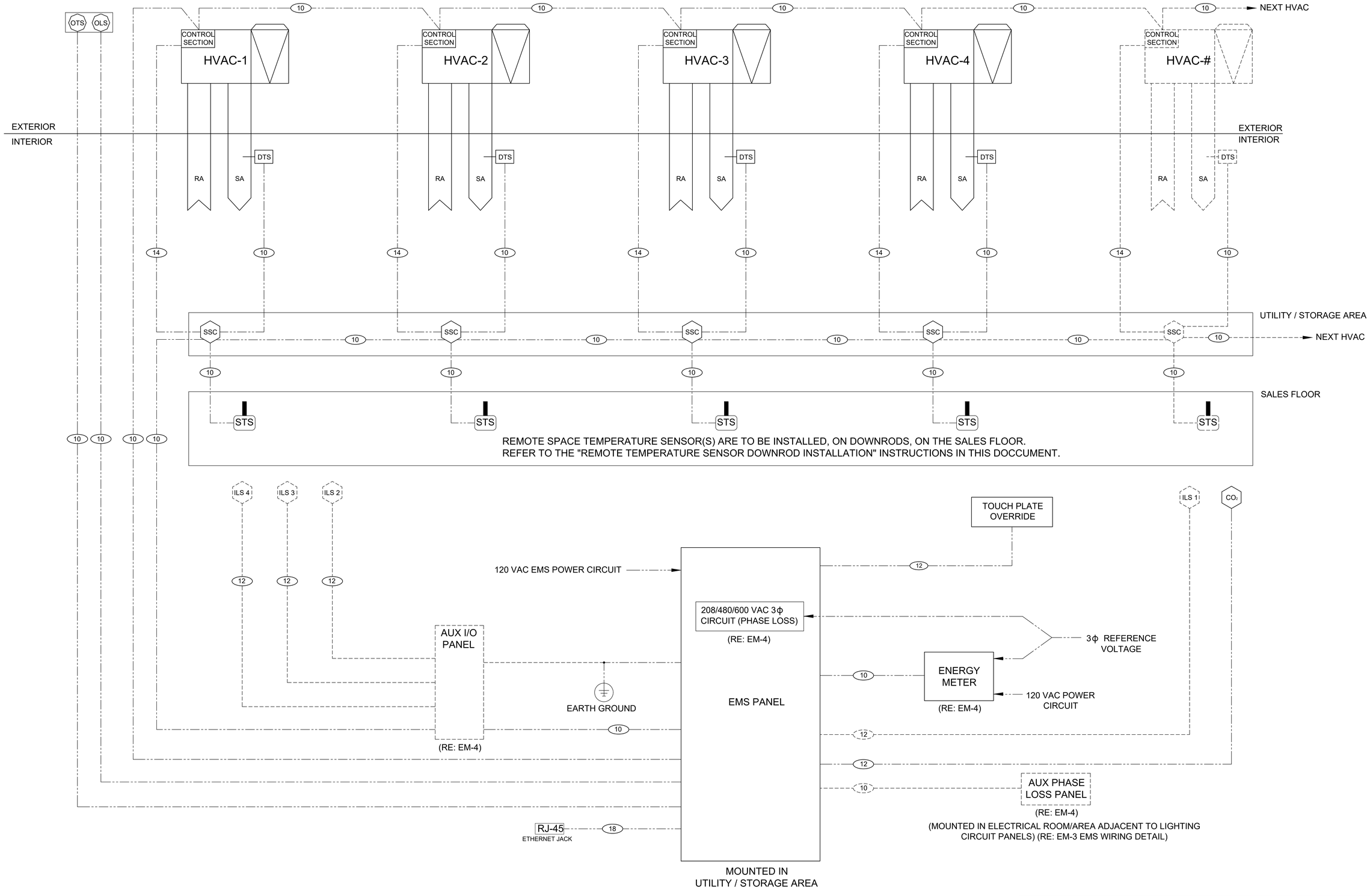
Cylon RETAIL SOLUTIONS
25 Sundial Ave - Suite 310 W
Manchester, NH 03103

FAMILY DOLLAR DRAWING NOTES (FOR REFERENCE ONLY)

REVISION: 1	
DATE: 06/05/20	ECN#: 2396
LOOSE DT OPTION	
REVISION:	
DATE:	ECN#:
REVISION:	
DATE:	ECN#:
REVISION:	
DATE:	ECN#:
DRAWN: WPC	ENGINEER: CGP
PART #: 94-403	OPTION: P

ENERGY MANAGEMENT PLAN

EM-1 of 4



ENERGY MANAGEMENT SYSTEM SINGLE LINE DIAGRAM

SCALE: None

WIRING LEGEND

- FIELD WIRING
- POSITIVE
- NEGATIVE
- OPTIONAL COMPONENT

Cylon RETAIL SOLUTIONS

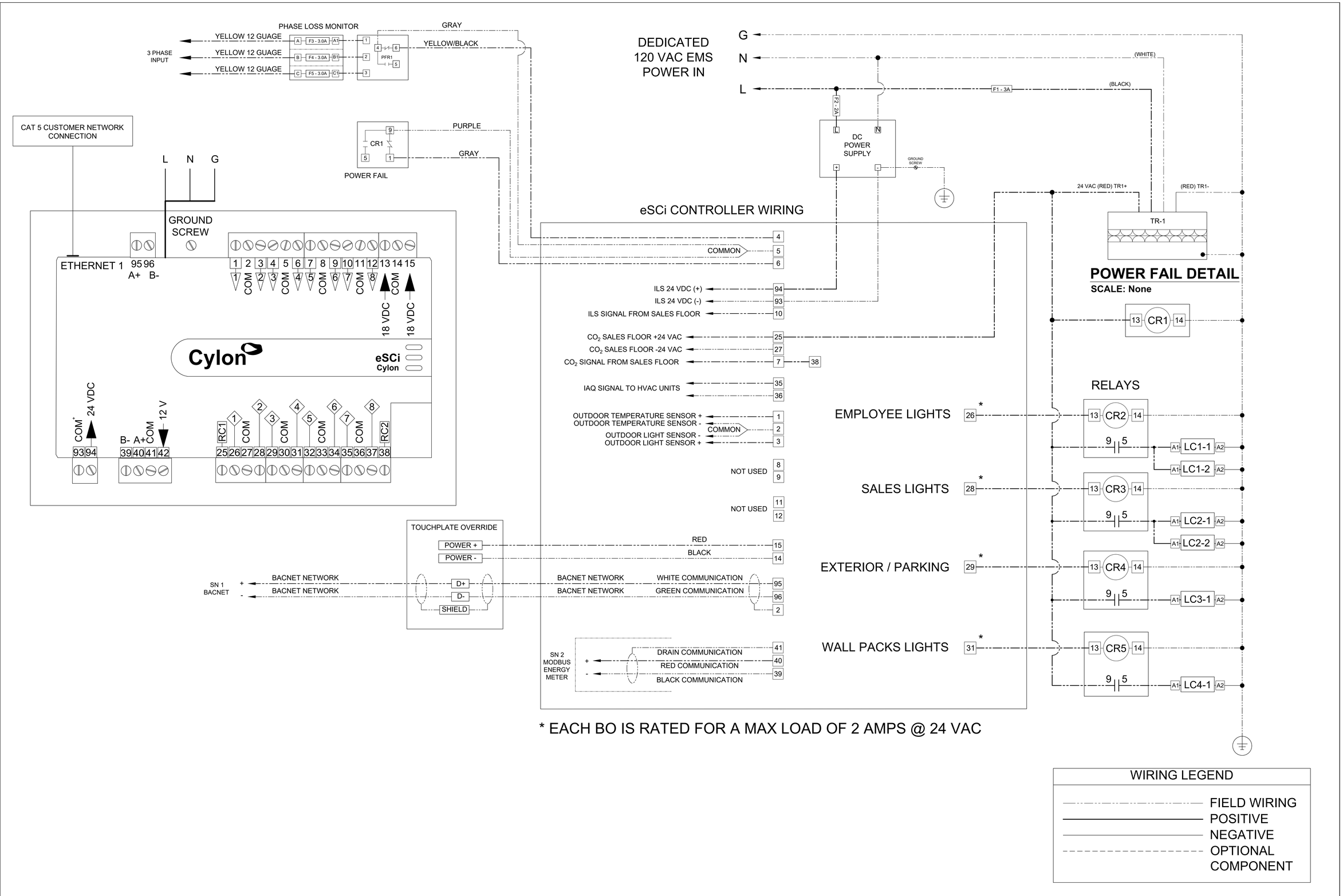
25 Sundial Ave - Suite 310 W
Manchester, NH 03103

FAMILY DOLLAR LINE DIAGRAM (FOR REFERENCE ONLY NOT TO SCALE)

REVISION: 1	
DATE: 06/05/20	ECN#: 2396
LOOSE DT OPTION ---- ----	
REVISION: ----	
DATE: ----	ECN#: ----
---- ---- ----	
REVISION: ----	
DATE: ----	ECN#: ----
---- ---- ----	
REVISION: ----	
DATE: ----	ECN#: ----
---- ---- ----	
DRAWN: WPC	CHECKED: CGP
PART #: 94-403	OPTION: P

ENERGY MANAGEMENT PLAN

EM-2 of 4



* EACH BO IS RATED FOR A MAX LOAD OF 2 AMPS @ 24 VAC

Cylon RETAIL SOLUTIONS
25 Sundial Ave - Suite 310 W
Manchester, NH 03103

FAMILY DOLLAR
FIELD WIRING
(FOR REFERENCE ONLY NOT TO SCALE)

REVISION: 1	
DATE: 06/05/20	ECN#: 2396
LOOSE DT OPTION	

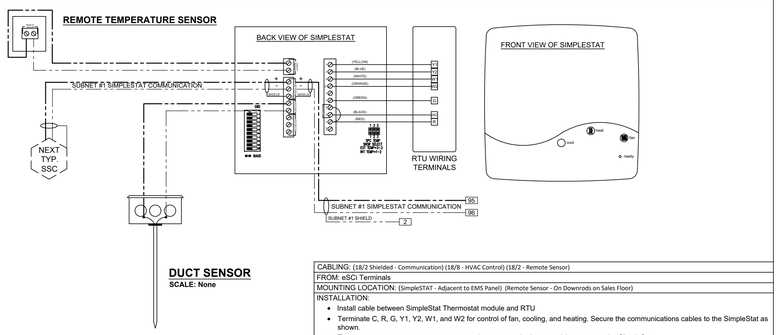
REVISION: ----	
DATE: ----	ECN#: ----

REVISION: ----	
DATE: ----	ECN#: ----

REVISION: ----	
DATE: ----	ECN#: ----

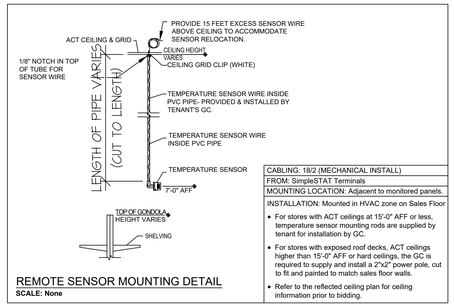
DRAWN: WPC	CHECKED: CGP
PART #: 94-403	OPTION: P

ENERGY MANAGEMENT PLAN



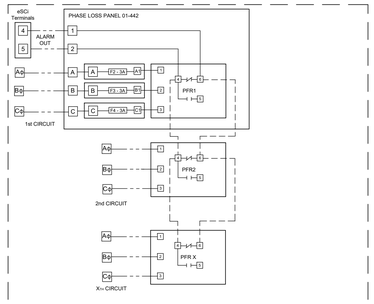
CABLING: (18/2 Shielded - Communication) (18/8 - HVAC Control) (18/2 - Remote Sensor)
FROM: eSCi Terminals
MOUNTING LOCATION: (SimpleSTAT - Adjacent to EMS Panel) (Remote Sensor - On Downrods on Sales Floor)
INSTALLATION:
- Install cable between SimpleStat Thermostat module and RTU
- Terminate C, R, G, Y1, Y2, W1, and W2 for control of fan, cooling, and heating. Secure the communications cables to the SimpleStat as shown.
- The remote space temperature sensor must be connected prior to applying power to the SimpleStat.
- Provide 24VAC power to the SimpleStat Thermostat Module from the RTU transformer. Power to the controller must be off while terminations are made.

SIMPLESTAT WIRING DETAIL
SCALE: None



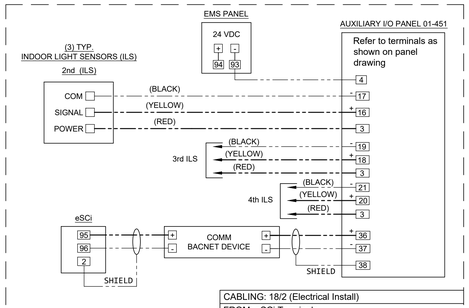
REMOTE SENSOR MOUNTING DETAIL
SCALE: None

CABLING: 18/2 (MECHANICAL INSTALL)
FROM: SimpleSTAT Terminals
MOUNTING LOCATION: Adjacent to monitored panels.
INSTALLATION: Mounted in HVAC zone on Sales Floor
- For stores with ACT ceilings at 15'-0" AFF or less, temperature sensor mounting rods are supplied by tenant for installation by GC.
- For stores with exposed roof decks, ACT ceilings higher than 15'-0" AFF or hard ceilings, the GC is required to supply and install a 2"x2" power pole, cut to fit and painted to match sales floor walls.
- Refer to the reflected ceiling plan for ceiling information prior to bidding.



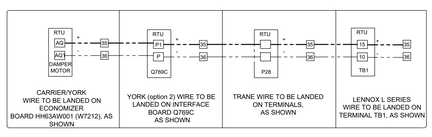
PHASE LOSS MONITOR(S) WIRING DETAIL
SCALE: None

CABLING: 18/2 (ELECTRICAL INSTALL)
FROM: eSCi I/O Terminals 4, 5
MOUNTING LOCATION: Adjacent to monitored panels.
INSTALLATION:
- Line voltage per NEC
- PFR shown in an alarm condition.



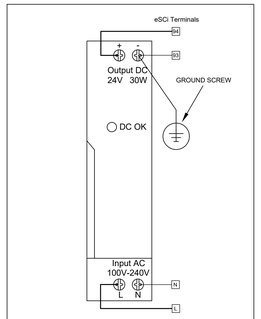
ILS WIRING DETAIL AUXILIARY
SCALE: None

CABLING: 18/2 (Electrical Install)
FROM: eSCi Terminals
MOUNTING LOCATION: N/A
INSTALLATION:
- Typical for 3 Indoor Light sensors
- Connect to same earth ground as EMS panel
- Refer to Aux I/O panel Drawing (Included with panel)



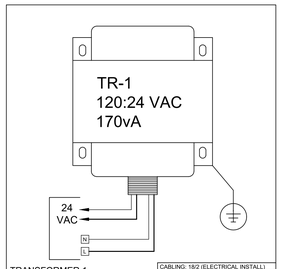
CABLING: 18/2 (Electrical Install)
FROM: eSCi Terminals
MOUNTING LOCATION: N/A
INSTALLATION: Special Instructions
1. Terminal designations are for economizer actuator motors. If hvac units do not have economizer section or do not have iaq/dcv option, then do not terminate wires and make note on survey form.
2. Daisy chain to next sales floor hvac unit, as required

HVAC IAQ CONNECTION DETAIL
SCALE: None



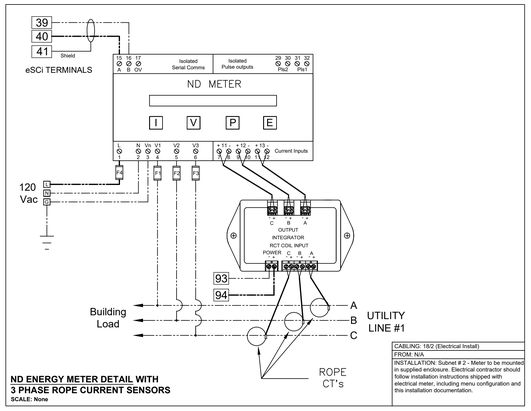
24V POWER SUPPLY
SCALE: None

CABLING: 18/2 (Electric Install)
FROM: eSCi Terminals
MOUNTING LOCATION: INTEGRATED POWER CENTER
INSTALLATION: TERMINALS WIRED TO INDOOR LIGHT SENSORS



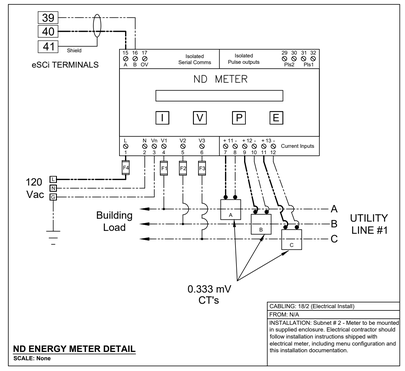
TRANSFORMER 1 WIRING DETAIL
SCALE: None

CABLING: 18/2 (ELECTRICAL INSTALL)
FROM: 120 VAC / eSCi TERMINALS
MOUNTING LOCATION: I/O connections
INSTALLATION:



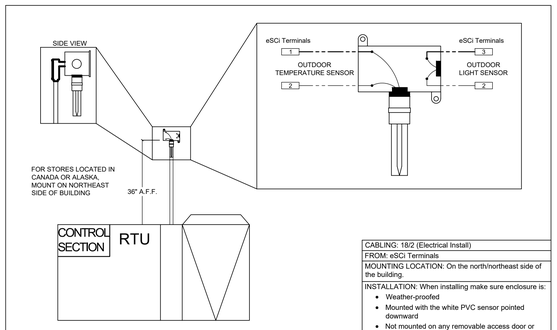
ND ENERGY METER DETAIL WITH 3 PHASE ROPE CURRENT SENSORS
SCALE: None

CABLING: 18/2 (Electrical Install)
FROM: N/A
INSTALLATION: Subnet # 2 - Meter to be mounted in supplied enclosure. Electrical contractor should follow installation instructions shipped with electrical meter, including menu configuration and this installation documentation.



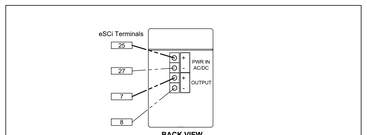
ND ENERGY METER DETAIL
SCALE: None

CABLING: 18/2 (Electrical Install)
FROM: N/A
INSTALLATION: Subnet # 2 - Meter to be mounted in supplied enclosure. Electrical contractor should follow installation instructions shipped with electrical meter, including menu configuration and this installation documentation.



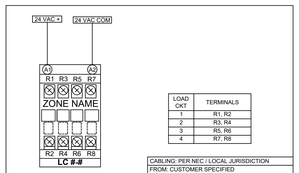
OTS/OLS WIRING DETAIL
SCALE: None

CABLING: 18/2 (Electrical Install)
FROM: eSCi Terminals
MOUNTING LOCATION: On the north/northeast side of the building
INSTALLATION: When installing make sure enclosure is:
- Weather-proofed
- Mounted with the white PVC sensor pointed downward
- Not mounted on any removable access door or HVAC Unit.
- Positioned to allow the Outdoor Light Sensor exposure to full ambient daylight but is not shadowed or exposed to any artificial illumination.



INDOOR CARBON DIOXIDE SENSOR DETAIL
SCALE: None

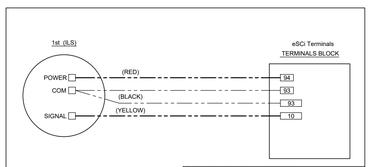
CABLING: 18/4 (Electrical Install)
FROM: eSCi Terminals
MOUNTING LOCATION: To be determined by customer
INSTALLATION: N/A



LOAD CKT	TERMINALS
1	R1, R2
2	R3, R4
3	R5, R6
4	R7, R8

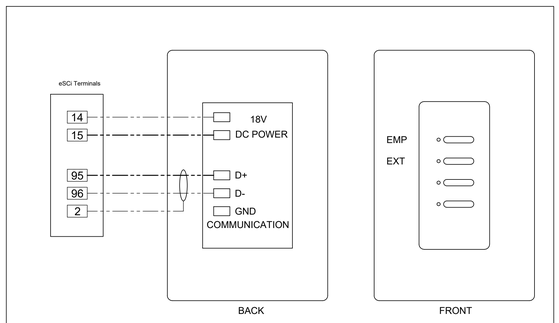
CONTACTOR WIRING DETAIL (TYPICAL)
SCALE: None

CABLING: PER NEC / LOCAL JURISDICTION
FROM: CUSTOMER SPECIFIED
MOUNTING LOCATION: EMS IFP
INSTALLATION: CONTACTORS ARE NORMALLY CLOSED AND OPEN UPON APPLICATION OF 24 VAC POWER



ILS WIRING DETAIL
SCALE: None

CABLING: 18/4 (Electrical Install)
FROM: eSCi Terminals
MOUNTING LOCATION: I/O connections
- INSTALLATION: Typical for 1 sensor connecting to terminals in eSCi/IFP.



TOUCHPLATE OVERRIDE
SCALE: None

CABLING: (18/2) X 2 (Electric Install)
FROM: eSCi TERMINALS
MOUNTING LOCATION: To be determined by customer
INSTALLATION:

Cylon RETAIL SOLUTIONS
25 Sundial Ave - Suite 310 W
Manchester, NH 03103

FAMILY DOLLAR EQUIPMENT DETAILS (FOR REFERENCE ONLY NOT TO SCALE)

REVISION: 1	
DATE: 06/05/20	ECN#: 2396
LOOSE DT OPTION	

REVISION: ----	
DATE: ----	ECN#: ----

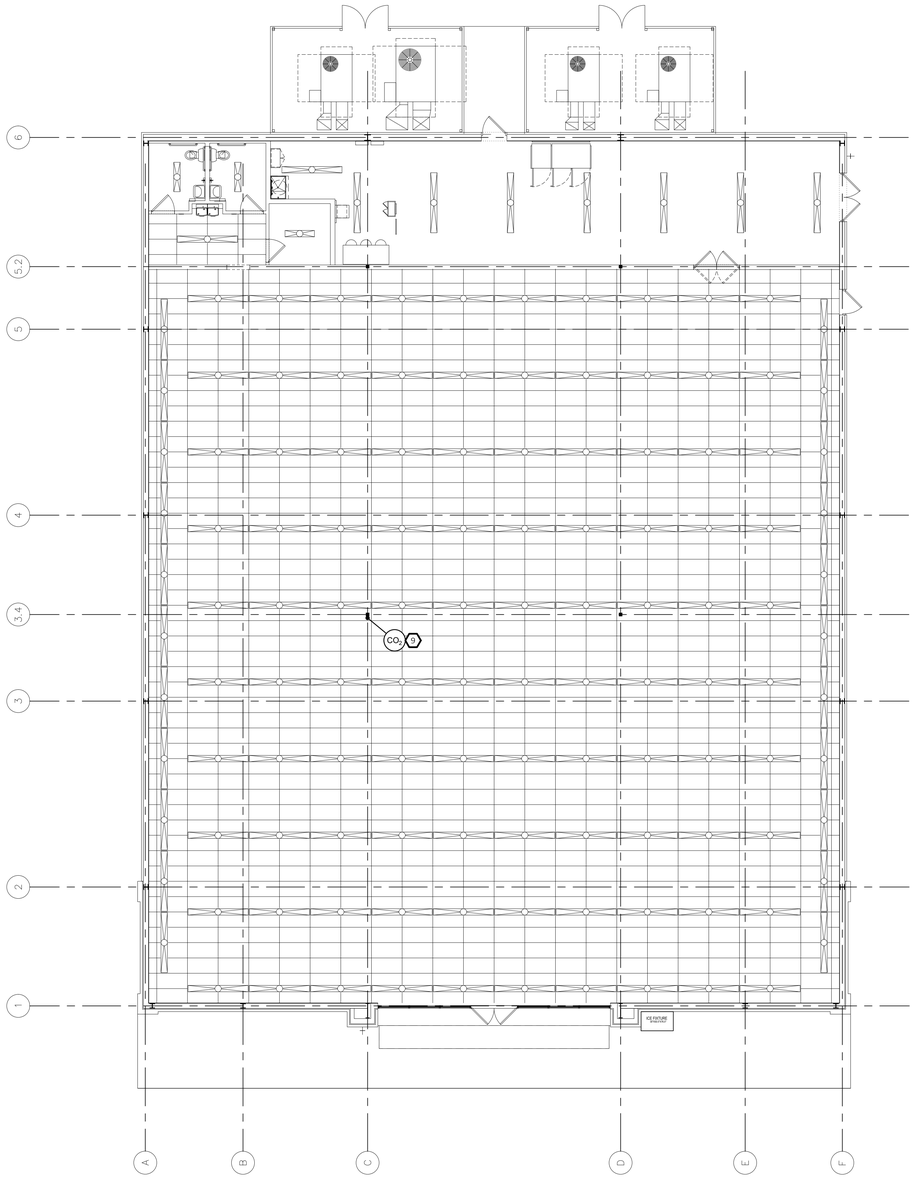
REVISION: ----	
DATE: ----	ECN#: ----

REVISION: ----	
DATE: ----	ECN#: ----

DRAWN: WPC	CHECKED: CGP
PART #: 94-403	OPTION: P

ENERGY MANAGEMENT PLAN

EM-4 of 4



1 TB1 HVAC PLAN

SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL VENTILATION CALCULATIONS

BASED ON THE 2015 INTERNATIONAL MECHANICAL CODE

ZONE	OCCUPANCY CATEGORY	DOAS / SZ / MZ	AREA (sf)	PEOPLE OA RATE (cfm/per)	AREA OA RATE (cfm/sf)	OCCUPANT DENSITY (#/1,000 sf)	OCCUPANTS	BREATHING ZONE OA FLOW Vbz (cfm)	ZONE AIR DISTRIBUTION EFF. Ez	ZONE OA FLOW Voz (cfm)	SYSTEM VENTILATION EFF. Ev	OA INTAKE FLOW REQUIRED Vot (cfm)
SALES	SALES	SZ	8633	7.5	0.12	15	129	2007	0.8	2509	N/A FOR SINGLE ZONE	2509
STOCK	SHIPPING & RECEIVING	SZ	1434	0.0	0.12	0	0	172	0.8	215	N/A FOR SINGLE ZONE	215
TOTAL			10067				129	2179		2724		2724

GENERAL MECHANICAL NOTES

1. EXISTING HVAC TO REMAIN. REVISE DUCTWORK AND DISTRIBUTION SYSTEM AS REQUIRED BY NEW PLAN. PROVIDE SHOP DRAWINGS AS REQUIRED BY THE BUILDING DEPARTMENT.
2. CONTRACTOR SHALL SERVICE EXISTING AIR-CONDITIONING SYSTEM COMPLETELY INCLUDING, BUT NOT LIMITED TO, CLEANING INTERIOR AND EXTERIOR OF ALL COMPONENTS, TOUCH-UP PAINTING, REPLACING AIR FILTERS, INSPECTING AND REPLACING FAN BELTS (IF REQUIRED), CHECKING EVAPORATOR AND CONDENSER FANS AND FAN MOTORS, CLEANING AND COMBING EVAPORATOR AND CONDENSER COILS, CHECKING AND TRIMMING REFRIGERANT CHARGE, CHECKING COMPRESSOR AMP DRAW, INSPECTING HEAT EXCHANGER (OR HEAT STRIPS AND/OR REVERSING VALVE AS REQUIRED), INSPECTING AND VERIFYING OPERATION OF GAS TRAIN, CHECKING DAMPER OPERATION AND DAMPER MOTORS, CLEANING CONDENSATE TRAP, ETC., TO INSURE PROPER OPERATION. SHOULD ANY REPAIRS BE REQUIRED, CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER'S REPRESENTATIVE AND SUBMIT A WRITTEN COST PROPOSAL INCLUDING COMPLETE COST TO PLACE UNIT IN "LIKE NEW" CONDITION AND TIME ESTIMATE TO COMPLETE REPAIRS.
3. VERIFY HVAC IS IN THE OFFICE, STOCKROOM, TOILET AND CORRIDOR AND EXTEND SYSTEM AS REQUIRED. FOR THE OFFICE, PROVIDE "TITUS" TMSA 24" X 24" DIFFUSER, WITH A 12"Ø NECK, LOCATED DIRECTLY ABOVE THE OFFICE. ADJUST FOR FULL VERTICAL DISCHARGE INTO THE OFFICE AREA.
4. INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS AND PROCEDURES.
5. COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES.
6. REFER TO ATTACHED ENERGY MANAGEMENT DRAWINGS FOR ADDITIONAL WORK ON TENANT SUPPLIED ENERGY MANAGEMENT SYSTEM. CONTRACTOR SHALL REFER TO THE TEMPERATURE SENSOR MOUNTING DETAIL FOR PLACEMENT & INSTALLATION INSTRUCTIONS PRIOR TO INSTALLING.

MECHANICAL NOTES (WHERE REQUIRED)

1. INSTALL ALL HVAC EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS, INCLUDING REQUIRED MAINTENANCE CLEARANCES. PIPING, DUCTWORK AND CONDUIT ROUTING SHALL NOT BLOCK REQUIRED ACCESS TO EQUIPMENT DOORS OR PANELS.
2. FABRICATE NEW DUCTWORK FROM MILL GALVANIZED STEEL SHEET. MATERIAL GAUGES, FABRICATION DETAILS, INSTALLATION AND DUCT SUPPORT SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS. SEAL ALL JOINTS PER SMACNA STANDARDS.
3. THE INDICATED DUCT ROUTING AND SIZES ARE DIAGRAMMATICAL. DO NOT FABRICATE FROM THESE DRAWINGS. FIELD VERIFY ROUTING AND AVAILABLE CLEARANCES. WHERE REQUIRED BY FIELD CONDITIONS, DUCTWORK MAY BE RESIZED UTILIZING ASHRAE/SMACNA EQUIVALENT SIZES. NOTIFY ENGINEER AND OBTAIN APPROVAL FOR REQUIRED ROUTING AND SIZE CHANGES PRIOR TO BEGINNING FABRICATION.
4. SMACNA EQUIVALENT ROUND DUCT OR RECTANGULAR DUCT SIZES MAY BE SUBSTITUTED FOR THE DUCT SIZES INDICATED ON THE PLANS. RECTANGULAR SUBSTITUTIONS SHALL MAINTAIN A MAXIMUM OF 3:1 ASPECT RATIO.
5. NEW RIGID SUPPLY DUCTWORK SHALL BE INTERNALLY INSULATED WITH 1-1/2 INCH THICK DUCT LINER, MINIMUM R-6 INSIDE CONDITIONED BUILDING ENVELOPE. DUCTWORK OUTSIDE BUILDING ENVELOPE SHALL BE PROVIDED WITH 2 INCH THICK DUCT LINER, MINIMUM R-8. INSULATION SHALL HAVE A FIRE SMOKE RATING OF 25/50. APPLY INSULATION PER SMACNA STANDARDS. EXHAUST DUCT DOES NOT REQUIRE INSULATION.
6. INSULATED FLEXIBLE DUCT SHALL BE UL LISTED, CONSTRUCTED OF A CPE INNER LINER, COATED SPRING STEEL WIRE HELIX WITH FIBERGLASS BLANKET AND VAPOR BARRIER EQUAL TO THERMAFLEX G-KM, BY FLEXIBLE TECHNOLOGIES. INSULATION SHALL HAVE A FIRE/SMOKE RATING OF 25/50.
7. MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 5 FEET, UNLESS OTHERWISE NOTED.
8. SECURE FLEXIBLE DUCT CONNECTIONS WITH STAINLESS STEEL WORM GEAR CLAMPS AND DUCT TAPE.

9. TENANT'S CONTRACTOR SHALL INSTALL TENANT PROVIDED CO2 SENSOR ON COLUMN, AT 6'-0" A.F.F. SEE EMS DRAWINGS FOR MORE INFORMATION.

   "ALTERNATE INSTALLATION"
   WHERE COLUMN INSTALLATION IS NOT POSSIBLE, CONTRACTOR SHALL SUSPEND CO2 SENSOR FROM CEILING GRID. NEAR CHECKOUT POWER POLE. SENSOR WIRING SHALL BE ROUTED DOWN THRU CONTRACTOR FURNISHED CONDUIT. PAINT CONDUIT PER TENANT'S CONSTRUCTION MANAGER'S REQUIREMENTS.

DEMAND CONTROLLED VENTILATION

1. TENANT'S CONTRACTOR SHALL REVIEW THE LANDLORD'S MECHANICAL DRAWINGS FOR THE CODE REQUIRED OUTSIDE AIR VALUE OR MAXIMUM OUTSIDE AIR SETTING. IN THE EVENT THE TENANT'S CONTRACTOR IS UNABLE TO OBTAIN THE LANDLORD'S MECHANICAL DRAWINGS, THE TENANT'S CONTRACTOR SHALL ADJUST THE PROVIDED EQUIPMENT TO DELIVER THE TOTAL OUTSIDE AIR SETTING TO DELIVER THE INDICATED VENTILATION AIR PER SCHEDULE WITH A NOMINAL MAXIMUM OF 25% RATION OF VENTILATION AIR TO TOTAL SUPPLY AIR PER UNIT. CONTRACTOR SHALL SET MINIMAL OUTSIDE AIR FOR DEMAND CONTROL TO APPROXIMATELY 30% OF THE TOTAL REQUIRED VENTILATION AIR PER UNIT.

   EXAMPLE:
   5-TON UNIT - NOMINAL 2000 CFM TOTAL SUPPLY AIR - 150/500 OUTSIDE AIR MIN/MAX CFM.
   8.5-TON UNIT - NOMINAL 3400 CFM TOTAL SUPPLY AIR - 255/850 OUTSIDE AIR MIN/MAX CFM.
2. THE TENANT'S CONTRACTOR SHALL SET THE MINIMUM AND MAXIMUM OUTSIDE AIR SETTINGS ON THE ECONOMIZER OF EACH HVAC UNIT BASED ON THE VALUES OF THE CALCULATIONS LISTED IN ITEM 1 ABOVE.
3. THE TOTAL MAXIMUM AND MINIMUM OUTSIDE AIR VALUES SHALL BE EQUALLY DISTRIBUTED BETWEEN EACH HVAC UNIT WITH RESPECT TO EACH UNITS SIZE.
4. REFER TO EM DRAWINGS FOR MORE INFORMATION.

HVAC TEST AND BALANCING NOTES

1. THE TENANT'S CONTRACTOR SHALL MAKE EVERY POSSIBLE EFFORT TO OBTAIN THE LANDLORD'S MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
   A. ONCE THE LANDLORD DRAWINGS HAVE BEEN OBTAINED, THE TENANT'S CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT NEBB OR AABC CERTIFIED AIR BALANCE AND TESTING AGENCY TO BALANCE, ADJUST AND TEST HVAC EQUIPMENT AND DUCT SYSTEMS. WORK SHALL BE PERFORMED AFTER THE COMPLETE INSTALLATION AND STARTUP OF ALL EQUIPMENT, DUCT SYSTEMS AND TEMPERATURE AND ENERGY MANAGEMENT CONTROLS, AND COMPLETED PRIOR TO TURNOVER OF STORE FOR THE START OF STOCKING. BALANCE AND TESTING CONTRACTOR SHALL SUBMIT SIGNED AND SEALED BALANCE AND TESTING REPORT TO CONTRACTOR FOR SUBMITTAL TO DOLLAR TREE PROJECT MANAGER FOR REVIEW.
   B. BALANCING OF AIR DEVICES SHALL BE ACCOMPLISHED BY ADJUSTING BRANCH TAKE-OFF DAMPER AT MAIN TRUNK DUCT. DAMPERS IN THE NECKS OF AIR DEVICES SHALL BE USED FOR FINAL TRIM ONLY AND IN NO CASE FOR GREATER THAN 10% OF THE INDICATED VOLUME FOR THE INDIVIDUAL DEVICE.
2. THE INDEPENDENT NEBB OR AABC CERTIFIED AIR BALANCE AND TESTING AGENCY SHALL ALSO INSPECT THE COMPLETED AND OPERATIONAL HVAC EQUIPMENT, DUCT SYSTEMS AND TEMPERATURE AND ENERGY MANAGEMENT CONTROLS PRIOR TO TURNOVER OF STORE FOR THE START OF STOCKING. BALANCE AND TESTING CONTRACTOR SHALL SUBMIT COMPLETED DOLLAR TREE HVAC FIELD INSPECTION REPORT TO CONTRACTOR FOR SUBMITTAL TO DOLLAR TREE PROJECT MANAGER FOR REVIEW.
3. IN THE EVENT THAT THE TENANT'S CONTRACTOR CANNOT OBTAIN A SET OF THE LANDLORD'S MECHANICAL CONSTRUCTION DOCUMENTS, THE TENANT'S CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT COMMISSIONING AUTHORITY (CA). THE CA SHALL PERFORM FUNDAMENTAL COMMISSIONING AND PROVIDE THE TENANT'S CONSTRUCTION MANAGER, ARCHITECTURAL PROJECT MANAGER, AND THE GENERAL CONTRACTOR WITH A REPORT PRIOR TO ANY CORRECTIVE ACTION BEING TAKEN. THE FUNDAMENTAL COMMISSIONING REPORT SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING:
   A. PERFORM COMPLETE TESTING OF THE LANDLORD'S HVAC SYSTEM AIR BALANCE INCLUDING SUPPLY, RETURN AND OUTDOOR AIR VOLUMES.
   B. PROVIDE A SKETCH SHOWING LOCATIONS OF SUPPLY DIFFUSERS, RETURN GRILLES AND APPROXIMATE LOCATION OF HVAC UNIT(S).
   C. DISCHARGE AIR TEMPERATURE AT THE SUPPLY DIFFUSERS.
   D. OUTDOOR TEMPERATURES AT THE TIME OF AIR BALANCE TESTING.
   E. GENERAL DESCRIPTION OF THE HVAC SYSTEM INCLUDING MAKE AND MODEL NUMBERS OF EACH HVAC UNIT, QUANTITY OF HVAC UNITS.
   F. VERIFY THAT HVAC SYSTEMS ARE SATISFYING THE THERMOSTAT SET POINTS.
   G. BRIEF DESCRIPTION OF SUPPLY AND RETURN AIR INSULATION.
   H. DETERMINE IF AN ECONOMIZER IS INSTALLED AT EACH HVAC UNIT.
   I. PROVIDE A LIST OF, IF ANY, INSTALLATION DEFICIENCIES OBSERVED AT EACH HVAC UNIT.
   J. INSPECT EACH HVAC UNIT FOR BELT INSTALLATION, REFRIGERANT LINE FROSTING, AIR FILTER CLEANLINESS AND ANY OTHER OBSERVED DEFICIENCIES.

NOTE - HVAC CONTROLS:
CONTRACTOR SHALL REFER TO THE EM SHEETS FOR INSTALLATION INSTRUCTIONS FOR THE VENDOR FURNISHED, CONTRACTOR INSTALLED HVAC CONTROL SYSTEM AND TEMPERATURE AND CO2 SENSOR LOCATIONS PRIOR TO THE INSTALLATION OF ALL RELATED ITEMS. PLEASE NOTE THAT EM SHEETS INDICATE ROOF TOP UNITS. PLEASE REFER TO MANUFACTURER'S INSTRUCTIONS FOR SIMPLE STAT WIRING FOR ALL OTHER SYSTEMS. CONTACT EM SYSTEM PROVIDER PRIOR TO ENERGIZING SYSTEM. FAILURE TO COMPLY WITH THESE INSTRUCTIONS COULD RESULT IN CONTRACTOR REPLACING SYSTEM COMPONENTS WITH NO ADDITIONAL COST TO THE TENANT.

NOTE - HVAC TEMPERATURE SENSOR:
CONTRACTOR SHALL REFER TO THE TEMPERATURE SENSOR MOUNTING DETAIL FOR PLACEMENT AND INSTALLATION INSTRUCTIONS PRIOR TO INSTALLING.

MECHANICAL/PLUMBING LEGEND

	NEW SUPPLY, RETURN, EXHAUST DUCTWORK
	NEW SUPPLY, RETURN, EXHAUST ELBOW UP
	NEW SUPPLY, RETURN, EXHAUST ELBOW DOWN
	NEW SUPPLY, RETURN, EXHAUST ELBOW WITH TURNING VANE
	NEW FLEXIBLE DUCTWORK
	EXISTING SUPPLY, RETURN, EXHAUST DUCTWORK
	DEMO SUPPLY, RETURN, EXHAUST DUCTWORK
	CONNECTION TO EXISTING SERVICE
CO_2	CARBON DIOXIDE (CO2) SENSOR
S	APPROVED DUCT TYPE SMOKE DETECTOR
M	MOTOR OPERATED DAMPER
RTU 1 — TAG NO.	EQUIPMENT TAG ADD X TO TAG FOR EXISTING, I.E. "XRTU"
A - 10 X 10 / 300 — TAG-NECK SIZE / VOLUME(CFM)	AIR DEVICE TAG
	SUPPLY AIR DIFFUSER
	RETURN/EXHAUST AIR GRILLE
FD	FIRE DAMPER
	VOLUME DAMPER
LAV — TAG-NO.	PLUMBING FIXTURE TAG
	PLUMBING SANITARY (WASTE) BELOW SLAB
	PLUMBING SANITARY (WASTE) ABOVE SLAB
	PLUMBING VENT
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER AND TEMPERED WATER
NG	NATURAL GAS (NEW)
ENG	NATURAL GAS (EXISTING)
AC	AIR CONDITIONING CONDENSATE

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mark	date	by	description

revisions

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drawing
PLANS, NOTES & LEGEND
TESTING AND BALANCING

TB1