

FAMILY DOLLAR STORE GRAY COURT, SC

STORE # 32831 **ABBREVIATIONS** SYMBOLS KEY PLAN INDEX OF DRAWINGS ACOUSTICAL CEILING TILE
AMERICAN DISABILITIES ACT
ABOVE FINISHED FLOOR
ARCHITECT, ARCHITECTURAL
APPROXIMATE ACT
ADA
AFF
ARCH
APPROI
BD
BLDG
CEM
CLG
CUR
COU
DF
DTL
DWG
EA
EIFS
ELEV
EQ
EXIST
EXTING MAK, MANU.
MFG, MANU.
MFG, MANU.
MTD
MTL
NIC
OC
OPP
PEJ
PLAM
PLYWD
PR
PSI
PTD
REELO
RECOD AAAAAAAA ARCHITECTURAL CSI NOTES, LEGEND AND KEY AND THE STATE OF T ELEVATION MARKER ELEVATION DATUM A1 APPROXIMATE
BOARD
BUILDING
CEMENT PLASTER FINISH
CEILING HICKORY TOTS LN NOT IN CONTRACT ON CENTER OPPOSITE ENLARGED DETAIL INDICATOR PREFORMED EXPANSION JOINT PLASTIC LAMINATE PLYWOOD A3.1 ELEVATIONS
A4 SCHEDULES, NOTES, DETAILS AND SECTIONS POUNDS PER SQUARE INCH STRUCTURAL PAINTED RELOCATE WALL SECTION MARKER EACH
EXTERIOR INSULATION FINISH SYSTEM
ELEVATION
EQUAL
EXISTING
EXTINGUISHER
FIRE EXTINGUISHER
FIRE EXTINGUISHER
FIRE EXTING
FIBERGLAS REINFORCED PANEL
FINISH, FINISHED
FOOT, FEET
FOOTING AI Talabia. SOLID CORE SHT SM STRUCT MECHANICAL / PLUMBING STRUCTURAL THICK, THICKNESS INTERIOR ELEVATION MARKER GYPSUM WALL BOARD TEMPERED GLASS THRESHOLD ◈ DEMOLITION NOTE UNDERWRITERS LABORATORIE UNLESS OTHERWISE NOTED VENT THROUGH ROOF NEW WALL CONSTRUCTION WIDE, WIDTH WALL CONSTRUCTION TYPE Silving Charles agreement the Charles of the Charle WELDED WIRE FABRIC W MAIN ST (HWY 76 W) \triangle FOR REFERENCE ONLY HOUR
HOUR
HEATING, VENTILATION AND AIR CONDITIONING
JOINT CENTER LINE ∞ **KEY PLAN** NOTE: SEE 'GENERAL SITE ACCESSIBILITY NOTES', SHEET LENGTH LONG SCALE: NONE **GENERAL NOTES NEW WORK NOTES** GENERAL SITE ACCESSIBILITY NOTES BUILDING CODE SUMMARY PROJECT DIRECTORY CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE LOCAL STATE AND PROVIDE TENANT IDENTIFICATION SIGN AT REAR DOOR PER LANDLORD'S 13. CONTRACTOR SHALL INSTALL TENANT SUPPLIED INTERIOR CRAPHICS AN IN ACCORDANCE WITH CHAPTER 11, ACCESSIBILITY - SECTIONS 1104 AND 110 NATIONAL CODES AND REGULATIONS CONSTRUCTION SHALL ALSO STRUCTURAL ENGINEER BRAD YOUNG & ASSOCIATES F THE INTERNATIONAL BUILDING CODE, 2018 EDITION, THE EXTERIO

- COMPLY WITH LANDLORD'S CRITERIA (UNLESS PRECLUDED BY CODE).

 ALL WOOD FRAMEWORK, WOOD BLOCKING AND PLYWOOD SHALL BE FIRE
- RETARDANT TREATED PER CODE

- 2. ALL WOOD FROMEWOOK, WOOD BLOKENS AND PLYWOOD SHALL BE HIRE RETARDANT TREATED PER CODE.

 3. ALL FINISH MATERIJAS SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT FATING CLASS (OF CLASS 3).

 4. WALL CONSTRUCTION BY THE TEMANTS CONTRACTOR IS SHOWN HATCHED.

 5. THE CONTRACTOR SHALL FILD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO BID TO DETERMINE THE EXTENT OF WORK. THE CONTRACTOR SHALL BIDDING.

 6. ALL MATERIALS HOLGATED ARE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING, AND SHALL BE PROVIDED AND INSTRUED BY THE CONTRACTOR. ITEMS INDICATED AS TEMANT SUPPLIED SHALL BE HISTALLED BY THE CONTRACTOR.

 7. ITEMS INDICATED AS TEMANT SUPPLIED SHALL BE INSTALLED BY THE CONTRACTOR. PROVIDED THE MEMORY OF THE TEMANT OF THE MEMORY OF THE TEMANT SHOULD HAVE SHALL BY THE CONTRACTOR.

 7. ALL EXISTING MATERIALS TO REMAIN WHICH ARE DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SO PERATIONS SHALL BE FATCHED OR
- DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE PATCHED OR REPAIRED TO MATCH THE EXISTING ADJACENT MATERIALS, SO THAT THE REPAIR IS IMPERCEPTIBLE 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
- CONTRACTOR SHALL ASSEMBLE AND INSTALL MATERIALS/ PRODUCTS IN
- CONTROLLASSEMBLE AND RAYBLAL METRICAS PRODUCTS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INDUSTRIAL ASSOCIATION STANDARDS.
 FIELD VERIFY AND/OR REPORT ASSESTOS CONTAINING MATERIAL TO ARCHITECT AND TENANT UPON DISCOVERY.
- ARCHITECT AND TENANT UPON DISCOVERY.

 1. ALL INTERIOR CONCRETE SHALL BE PORTLAND CEMENT BASED TO INCLUDE PATCHING, FLOATINGLEVELING OF FLOORS AND INFELLING.

 12. ANY DETAIL WHICH MAY BE INCOMPLETE OR LACKING IN THE PLANS OR SPECIFICATIONS SHALL IN CONSTITUTE CLAIM FOR EXTRA COMPENSATION. SUCH DETAIL, IF REQUESTED BY THE CONTRACTOR, SHALL BE SUPPLIED BY THE ENGINEERANCHITECT 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.
- INTENT.

 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.

- (4) 2A-108C RATED FIRE EXTINGUISHERS TO BE TENANT, SUPPLIED, SIMILAR TO JL INDUSTRIES MODEL COSMIC SE LOCATE EXTINGUISHERS AS SHOW PROVIDE WALL BRACKETS AND MOUNT CONTROLS AT 48" AFE MAY PROVIDE FIRE EXTINGUISHER' SIGNS ON WALL DIRECTLY AROVE EACH UNIT. CONTRACTOR SHALL HAVE EXTINGUISHERS INSPECTED AND
- THE CONTRACTOR SHALL VERIEV THAT TOUGH ROOM(S) INCLUDING FIXTURES AND ACCESSORIES (BOTH EXISTING AND NEW) MEET ALL APPLICABLE LOCAL, STATE AND FEDERAL ACCESSIBILITY CODES AND
- LAWS.
 PROVIDE EXTERIOR LIGHT ABOVE REAR DOOR, AS APPROVED BY
 LANDLORD, IF ONE DOES NOT EXIST WITHIN 10 FEET OF REAR DOOR,
 PAINT ALL EXPOSED SURFACE MOUNTED CONDUIT 10 MATCH ADJACENT
 WALL COLOR IE WHITE OR YELLOW).
 CONTRACTOR SHALL CALLK AROUND 10P AND BOTTOM EDGES OF
 COLUMN SURPORDINGS CO. MUSTOR DUMPS.
- COLUMN SURROUNDS TO AVOID INJURY.

 REPAIR AND CLEAN ALL EXISTING MATERIALS (IE STOREFRONT FRAMING AND GLAZING, WALLS, CEILING, ETC) TO REMAIN TO A LIKE NEW CONDITION NOTIFY FAMILY DOLLAR CONSTRUCTION PM AS TO THE CONDITION OF EXPOSED CONCRETE BLOCK WALL TO REMAIN ON THE SALES FLOOR. FAMILY DOLLAR 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. CONTRACTOR SHALL INSTALL TENANT SUPPLIED FIXTURES TO INCLUDE BUT NOT LIMITED TO CART CORRAL, PERIMETER WALL GONDOLA, FLOOR GONDOLA, BALLOON CENTER, HANGING BALLOON CORRALS, HELIUM TAN CABINET (SALES FLOOR), AND MOBILE FIXTURES PER TENANT'S FIXTURE
- 10. DOORS AND FRAMES (OTHER THAN THOSE LISTED AS EXIST) ARE TENANT DOORS AND FROMES, OFFICE FIRST HIDSE LISTED AS EASY JAKE LISEM, SUPPLIED FOR CONTRACTOR INSTALLATION, STOREFRONT DOORS (WI-NOTED) SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR AS REQUIRED, AUTOMATIC DOORS (WIMEN NOTED) WILL BE SUPPLIED AND INSTALLED BY TENANTS VENDOR (CONTRACTOR IS RESPONSIBLE FOR ELECTRONIC DUNKETORS).
- INSTALLED BY TENANT'S VENDOR (CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL CONVECTION)

 1. 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 POLLAR TREES NAME.

 2. CONTRACTOR SHALL VERIFY IF THERE IS AN EXISTING ACCESS PANEL TO TENANT'S SIGNAGE. IF ACCESS PANEL DOS NOT DESIST, INSTALL 2"A" X" 2" ACCESS PANEL EITHER INSIDE AT DOLLAR TREES SPACE ABOVE THE CERLING VERIFY FIRE RATINGS AND CODE REQUIREMENTS) OR IN THE EXTERIORS OFFIT TO MATCH CAMPBY CONSTRUCTION AS ALLOWED BY LANDLORD, CONFIRM WITH SIGN VENDOR FOR LOCATION PRIOR TO INSTALLING.

- 13. CONTRACTOR SHALL INSTALL TENANT SUPPLIED INTERIOR GRAPHICS AND SIGNS TO INCLUSE BUT NOT LIMITED TO PERIMETER WALL GRAPHICS:SICHAGE, HANGING GRAPHICS:SICHAGE AND STOREFRONT WINDOW DECALS. CONTACT THE CONSTRUCTION PM FOR GRAPHICS:GNAGE DRAWNISS.

 14. 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 SPPAIY FOAM IS NOT AN ACCEPTABLE FINISHED MATERIAL.)

 15. CONTRACTOR SHALL POST ON BULLETIN BOARD IN OFFICE FINAL INSPECTIONS SCENTIFICATE OF COCUPANCY.
- INSPECTIONS & CERTIFICATE OF OCCUPANCY.

 16. ALL PLAQUE SIGNAGE SHALL BE ATTACHED TO MOUNTING SURFACE WITH CONSTRUCTION ADHESIVE.

ROUTES OF TRAVEL AND ACCESSIBLE PARKING ARE EXISTING PRIOR TO THE OCCUPANCY OF THE NEW TENANT, NO CHANGE OF OCCUPANCY OR EXTERIO SITE MODIFICATION SHALL OCCUR WITHOUT PRIOR PERMITTING AN

ENVIRONMENTAL HEALTH NOTES

- . THIS FACILITY CARRIES ONLY 100 % PRE-PACKAGED FOOD TO INCLUDE THI THIS FACILITY IS A NON DINING FACILITY. NO DINING SEATING WILL BE
- PROVIDED TO CUSTOMERS,
 THIS FACILITY DOES NOT PERFORM ANY TYPE OF FOOD PREPARATION
 WITHIN THE STORE FOR CUSTOMER CONSUMPTION AND/OR EMPLOYEE
- WITHIN THE STORE FOR CUSTOMER CONSUMPTION AND/OR EMPLOYEE CONSUMPTION.
 THIS FACILITY HAS NO FOOD EQUIPMENT WITHIN THE STORE.
 THIS FACILITY WILL HAVE 3 TO 4 EMPLOYEES PER SHIFT MAXIMUM. ONE STORE MANAGER, ONE TO TIVE CASHERS AND ONE STOCKER.
 EMPLOYEE LOCKERS FASILY CLEANABLE LOCKERS WILL BE PROVIDED TO ALL EMPLOYEES, REFER TO FIXTURE PLAN FOR LOCATION.
 MOP JINK THIS FACILITY WILL BE SUPPLIED WITH A 21'-SS' FLOOR MOUNTED MOP SINK WILL HAVE PROVED VICULUM BERAKER FAUCET. WALLS SURROUNDING MOP SINK WILL HAVE FRP TO 8-0' ABOVE FINISH FLOOR FOR FASY CLEANABLE SURFACE.
- FINISH SCHEDULE- A FINISH SCHEDULE IS INCLUDED IN THIS SET OF

USE GROUP M - MERCANTILE

CONSTRUCTION TYPE: NUMBER OF STORIES DECK HEIGHT

TOTAL LEASE AREA OCCUPANCY LOAD:

CONSTRUCTION DOCUMENTS AND LOCATED ON SHEET AF FOR YOUR USE

0. 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, IN

INTERNATIONAL BUILDING CODE 2018 EDITION WITH SC AMENDMENTS INTERNATIONAL PLUMBING CODE

SPRINKLERED:

EASY CLEANABLE SURFACE.

NSF, ANSI AND UL APPROVED. ALL EQUIPMENT WITHIN THIS FACILITY IS NSF,

ANSI AND UL APPROVED, CUT SHEETS FOR EQUIPMENT AVAILABLE UPON

SECURITY NOTES: RISK CLASS 0

15'-11 1/2" - 18'-4" 10.532 SF SALES AREA 8940/60 PRE-SALES 1592/300 TOTAL

FAMILY DOLLAR STORE 13024 HWY 76 W GRAY COURT, SC, 29645

BUILDING DEPT PHONE NO: (864) 984-6659 FIRE MONITORING REQUIRED: UNKNOWN - GC TO CONFIRM ARCHITECT
RRMM ARCHITECTS, PC
1317 EXECUTIVE BLVD, SUITE 200
CHESAPEAKE, VIRGINIA 23320
PHONE (15T) 522-2828
FAX (75T) 622-2893
BRITTANY SMITH, PM

TENANT FAMILY DOLLAR STORES, INC. 500 VOLVO PARKWAY CHESAPEAKE, VA 23320 PHONE (704) 718-5945

FAX (757)321-5300 JEFF BEEDLE PLUMB, MECH, ELEC ENGINEER OLG ENGINEERING

OLG ENGINEERING
301 INDUSTRIAL 6LVD
TULLAHOMA, TENNESSEE 37388
PHONE (931) 454-9940
FAX (931) 454-2338
TIM LITTLE, PM

LANDLORD CAROLINA HOLDINGS, INC 40 WEST BROAD ST, SUITE 410 GREENVILLE, SC 29645

345 POLLASKY AVENUE CLOVIS, CA 93612 PHONE (559) 323-9600

BRAD YOUNG, ENGINEER

SIGN CONTRACTOR ALLEN INDUSTRIES 6434 BURNT POPLAR RD

GREENSBORO, NC 27409 PHONE (888) 294-2007 EXT. 3117

FAX (559) 323-9633

EXTERIOR SITEWORK

PROPERTY DEFINED- THE PROPERTY DOLLAR TREE WILL OCCUPY AFTER TURNOVER FROM CONTRACTOR TO INCLUDE BUT NOT LIMITED ANDSCAPED AREAS, PARKING LOT, RETENTION/DETENTION PONDS. ROOF SURFACE ETC.

- THE CONTRACTOR SHALL PROVIDE WRITTEN PROPOSAL TO THE CPM FOR THE BELOW WORK PRIOR TO COMMENCING WITH SAID WORK, THIS SCOPE OF WORK WILL BE TREATED AS A CHANGE ORDER AND SHALL
- SOOPE OF WORN VIELD BE FIREFILD AS A UPWANGE OF GREEK AND STALL NOT BE INCLUDED IN THE ORIGINAL BID.

 THE CONTRACTOR SHALL REMOVE ALL TRASH & CONSTRUCTION DEBRIS FROM STEEL (1) DAY PRIOR TO TURNOVER TO DOLLAR TIREE. THE CONTRACTOR SHALL ALSO MAINTAIN A TRASH & CONSTRUCTION DEBRIS FREE STEE DURING CONSTRUCTION.

 THE CONTRACTOR SHALL GET THE EXISTING SITE IRRIGATION SYSTEM.
- IN GOOD WORKING ORDER PRIOR TO TURNOVER TO DOLLAR TREE. IE THE EXISTING SYSTEM REQUIRES MAJOR REPAIRS PLEASE CONSULT THE CPM FOR DIRECTION.
 THE CONTRACTOR SHALL REPLACE ALL EXISTING SITE LIGHTING BULBS.
- & GET ALL EXISTING SITE LIGHTING IN GOOD WORKING ORDER TO THENOUSE TO DOLL AS TREE
- TO TURNOVER IT DUCLAR I REE.

 THE CONTRACTOR SHALL SEAL & STRIPE THE EXISTING PARKING AREA, REPLACE ANY MISSING OR BROKEN WHEEL STOPS, REPLACE ANY MISSING OR BAMAGED DIRECTIONAL SIGNS & REPAIR ANY POTHOLES OR DAMAGED AREAS PRIOR TO TURNOVER TO DOLLAR TREE.

SM8 by € ¥



Chesapeake, VA 23320 757)622-2828 / lax (757)622-688





ORE, FD# 799732 FAMILY DOLLAR STO HICKORY TAVERN, SC GRAY CO NOTES, LEGENDARY CONTESTORY CONT

CS1

WALL CONSTRUCTION TYPES

- EXTERIOR DEMISING WALL: EXISTING PRE-ENGINEERED WALL AND GWB, PATCH AND REPAIR WALL AS REQUIRED, FINISH PER FINISH SCHEDULE, SHEET A4,
- PARTITION WALL: 6" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 5.8" GWB EACH SIDE TO ROOF DECK. SEE DETAIL 4/A4. FINISH PER FINISH SCHEDULE, SHEET A4.
- PARTITION WALL; 6" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 58" GWB EACH SIDE TO ROOF DECK ON SALES / STOCKROOM SIDE AND TO FINISHED CEILING ON TOILET ROOM / HALLWAY SIDE, SEE DETAIL 3/A4 FOR ADDITIONAL REQUIREMENTS, FINISH PER FINISH SCHEDULE, SHEET A4.
- PARTITION WALL: 3 58° (20 GA) METAL STUDS @ 16° OC WITH ONE LAYER 58° GWB EACH EXPOSED SIDE TO FINISHED CERING, PLUMBING WALLS ON INTERIOR OF TOILETS SHALL HAVE WATER RESISTANT GWB. SEE DETAIL 3/41.2, FINISH PER FINISH SCHEDULE, SHEET A4.
- PLUMBING PARTITION: 6" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 518" GWB EACH EXPOSED SIEN TO FINISHED CELING, PLUMBING WALLS ON INTERIOR OF TOILETS SHALL HAVE WATER RESISTANT GWB, PINSH PER FINISH SCHEDULE, SHEET A4.
- V67 PARTITION WALL: 3 58° (18 GAGE) / 6° (18 GAGE) METAL STUDS @ 12° OC (4°-0° WIDE ON LONG SIDE AND 3'-0° WIDE ON SHORT SIDE OF MOP SIND) WITH ONE LAYER 58° GWB EACH SIDE TO ROOF DECK. PROVIDE WATER RESISTANT GWB ON PLUMBING SIDE ONLY, SEE DETAR. 22A1.2. FINISH PER FINISH SCHEDULE SHEET AN.
- PARTITION WALL: EXIST PRE-ENGINEERED WALL, PROVIDE 3 58" (20 GA) METAL STUDS @ 16" OC WITH ONE LAYER 58" GWB TO FINISHED CELLING, PROVIDE WATER RESISTANT GWB. FINISH PER FINISH SCHEDULE SHEET A4.

FAMILY DOLLAR GENERAL NOTES

KEY BOX NOTE:

G.C. SHALL PROVIDE KEY BOX FOR LOCK ACCESS DURING PUNCHOUT AND TURNOVER, COMBINATION MUST MATCH LAST FOUR DIGITS OF STORE NUMBER.

DESIGNER NOTE: GC TO PROVIDE EYE BOLT EMBEDDED 12'
MIN. INTO TOP OF LOADING AREA BOLLARD WITH DIAMETER
SIZED FOR KEY LOCK BOX,

KMOX BOX NOTE:
IF A KNOX BOX ENTRY SYSTEM IS REQUIRED BY THE CODES
GOVERNING THE CONSTRUCTION OF THE PROJECT, PROVIDE
RECESSED KNOX BOX PROVIDED BY THE GO PRIOR TO THE
COMPLETION OF THE PROJECT, LOCALE FOR LOCAL CODE
REQUIREMENTS, KNOX BOX CONTACT - 886-625-4563

CERTIFICATE OF OCCUPANCY

G.C. IS RESPONSIBLE FOR THE "CERTIFICATE OF OCCUPANCY: CERTIFICATE TO BE FRAMED AND MOUNTED IN OCCUPANCY: CERTIFICATE TO BE FRAMED AND MOUNTED IN THE MANAGES OFFICE, IF MUNICIPALITY ODES NOT ISSUE A Co(O, IT IS THE RESPONSIBILITY OF THE G.C. TO GET A LETTER FROM THE MUNICIPALITY STATING AS SUCH ON CITY/COUNTY LETTERHEAD AND THAT LETTER IS TO BE FRAMED AND MOUNTED IN MANAGERS OFFICE.

SIGN FOR GROUND UP STORES SIGN FOR IN-LINE STORES

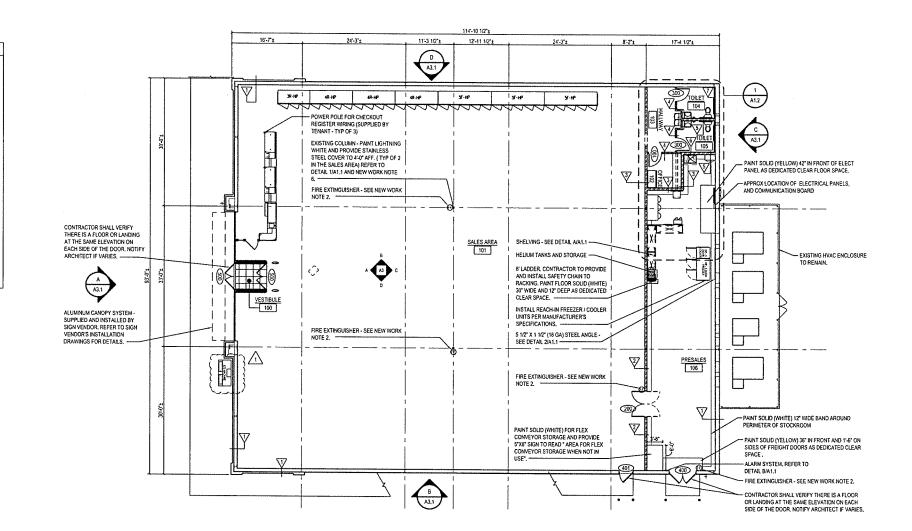


SMOKE FREE FACILITY

SMOKE FREE NOTE: PROVIDE SIGNAGE AT EVERY ENTRY POINT ON EXTERIOR WALL INTO THE BUILDING PER THE GROUND UP OR IN-LINE STORE TYPE ABOVE. SIGNS MUST BE 10*TNX*W. IN SIZE. THE MATERIAL IS PREFERRED TO BE LUMINUM, SIGNS MAY BE FOUND AT

NO HIGH PILED STORAGE, AS DEFINED BY THE CODES GOVERNING THE JURISDICTION IN WHICH THE PROJECT IS CONSTRUCTED, SHALL BE ALLOWED.

FREEZER / COOLER NOTE: ALL REACH-IN FREEZER / COOLER UNITS ARE SELF CONTAINED. REFER TO SHEET DS1 FOR SPECIFICATION.









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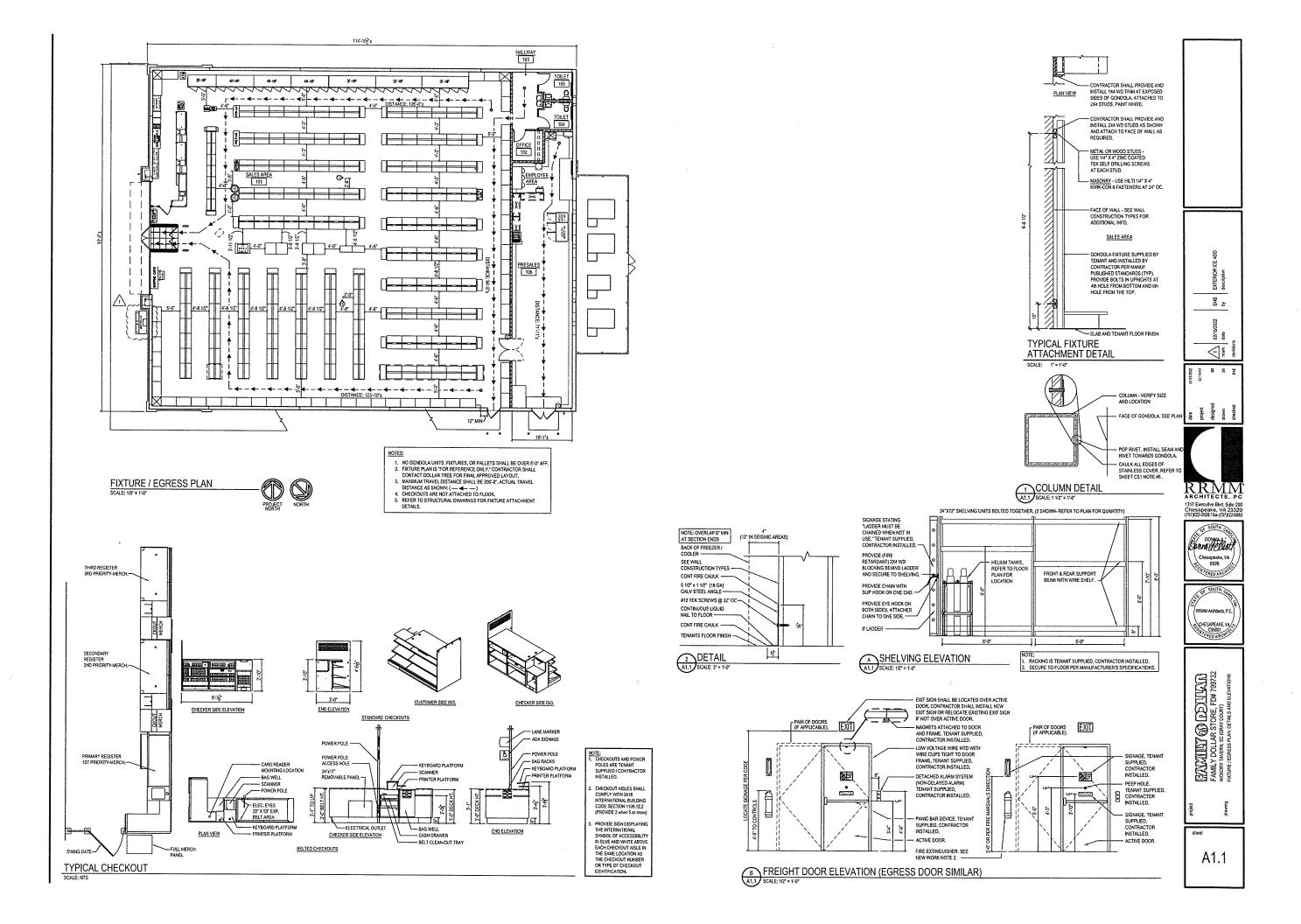
RRMM ARCHITECTS, PC 1317 Executive Blvd, Suite 200 Chesapeake, VA 23320 (757)622-2628 / fax (757)622-688

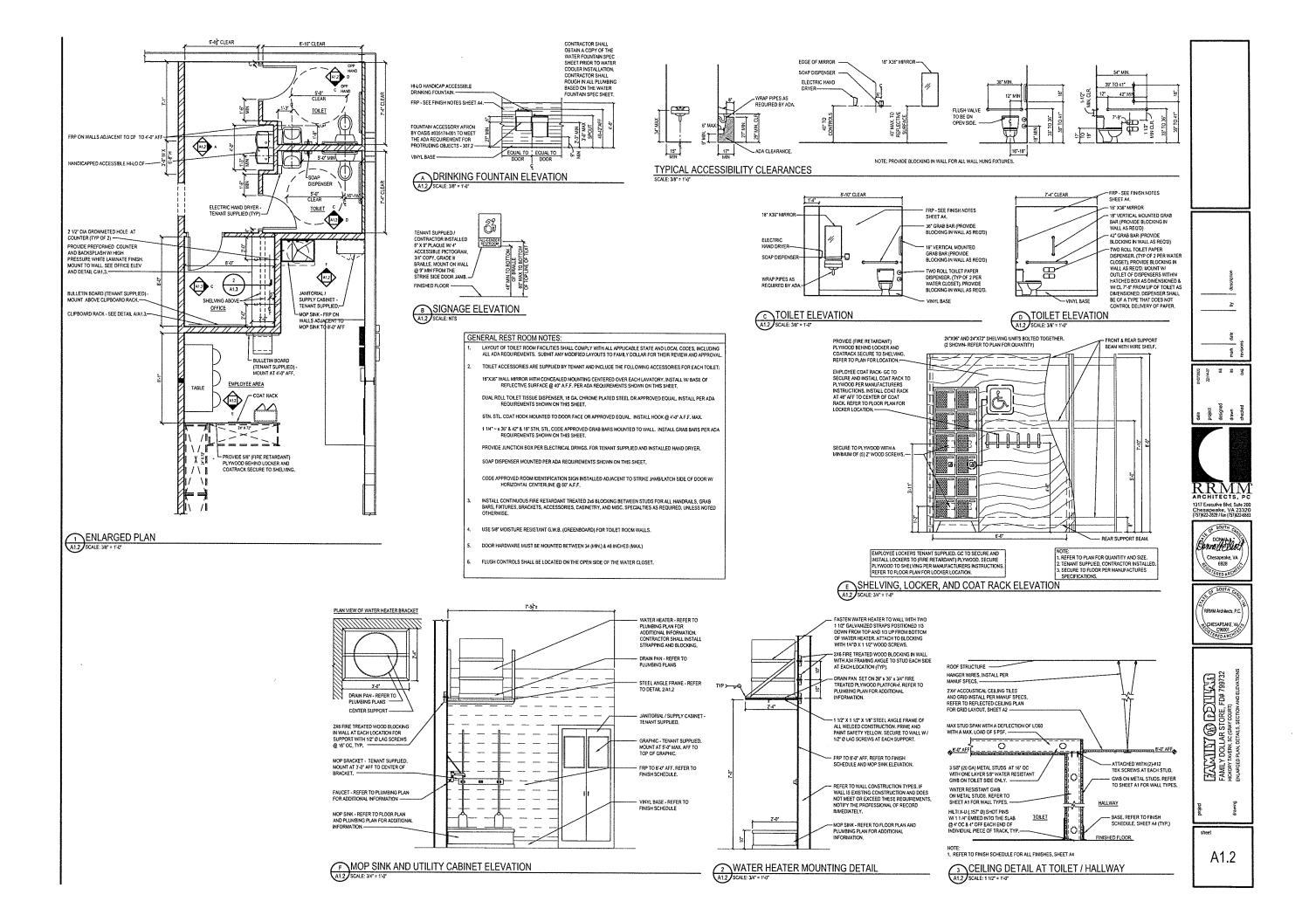


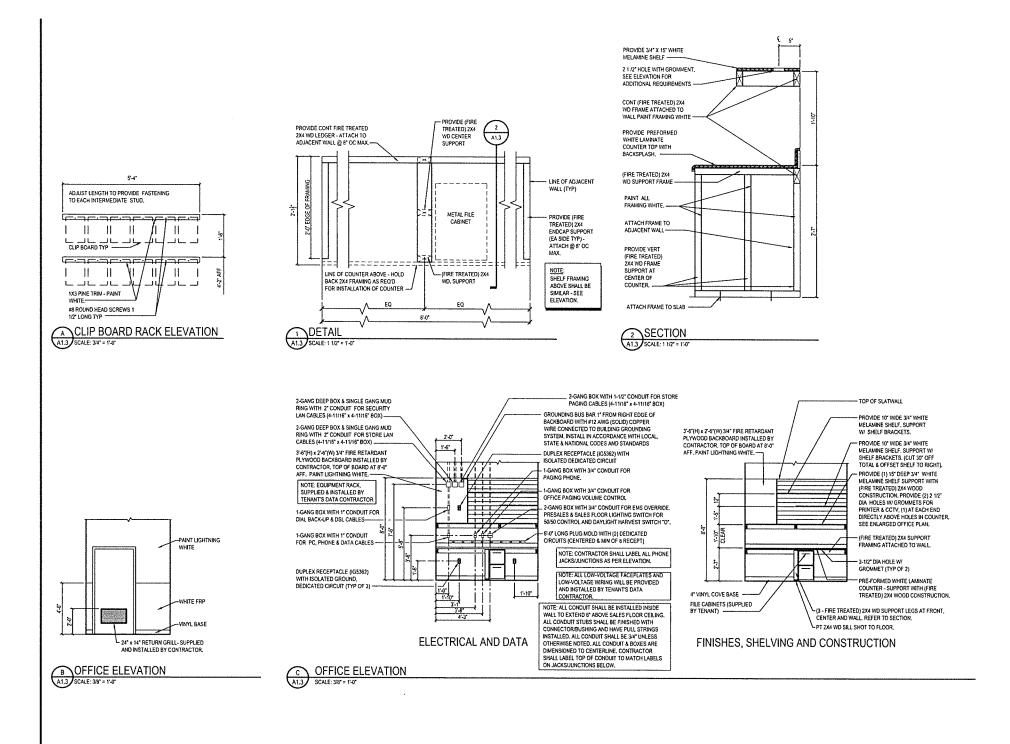


FAMILY DOLLAR STORE, FD# 799732
HOGGIN THE STORE FD# 799732

A1







PACONI TARGED FLAN SECTION AND ELEVATIONS

RECHITECLS** LOCATION COUNTY

FAULT Y CONTROL SECTION AND ELEVATIONS

RECHITECLS** LOCATION COUNTY

FOR STATEMENT SECTION AND ELEVATIONS

FOR STATEMENT SECTION AND ELEVATIONS

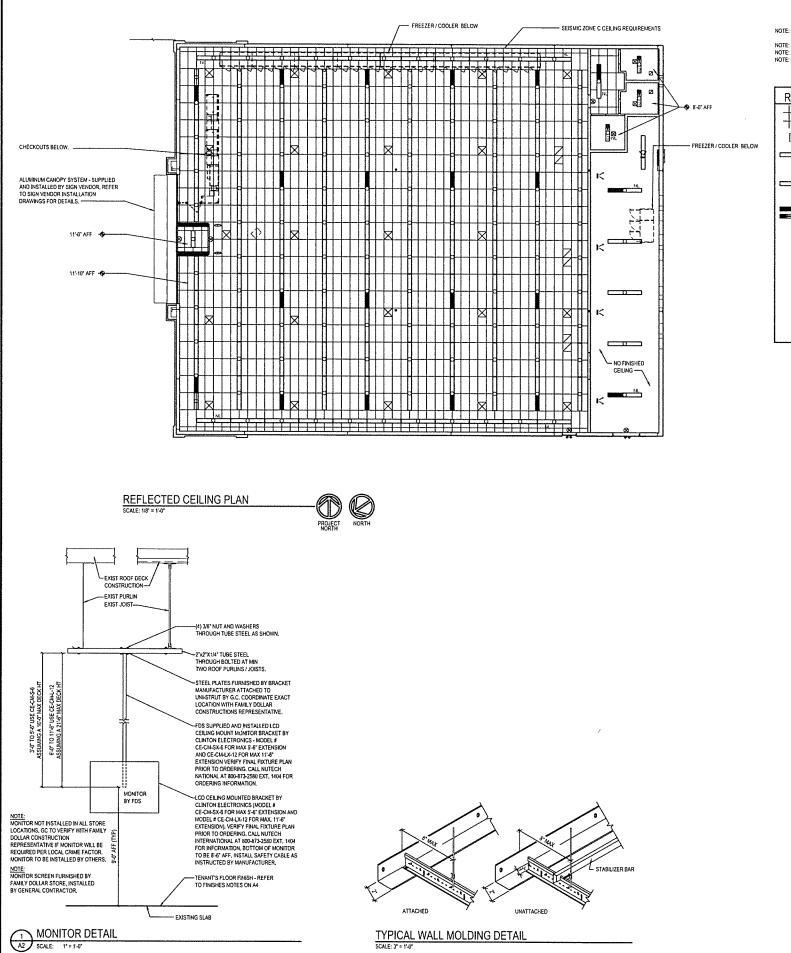
RECHITECLS** LOCATION COUNTY

FOR STATEMENT SECTION AND ELEVATIONS

FOR STATEMENT SECTION COUNTY

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A1.3



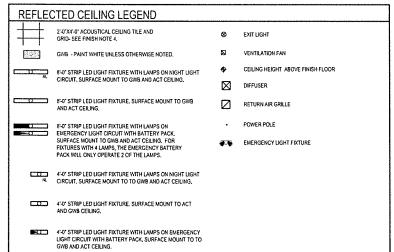
NOTE: 1.

THE ELECTRICIAN SHALL INSTALL ADDITIONAL #12 WIRE TIE SUPPORTS FROM THE CEILING GRID TO THE STRUCTURE ABOVE FOR SUPPORT OF THE LIGHT FIXTURES CLIPPED ON THE GRID.

NOTE: 2.

NOTE: 4.

SEISMIC ZONE C CEILING REQUIREMENTS, ARMSTRONG SEISMIC RX SUSPENSION SYSTEM ICC REPORT ESR-1308, MINIMUM 78" WILL MOLDING, SUSPENSION SYSTEM MAY BE CUT TIGHT ON TWO ADJOINING WALLS, MINIMUM 38" CLEARANCE ON TWO UNLATTACHED WALLS, BERC OR BERCZ ON ALL MAIN BEAMS.



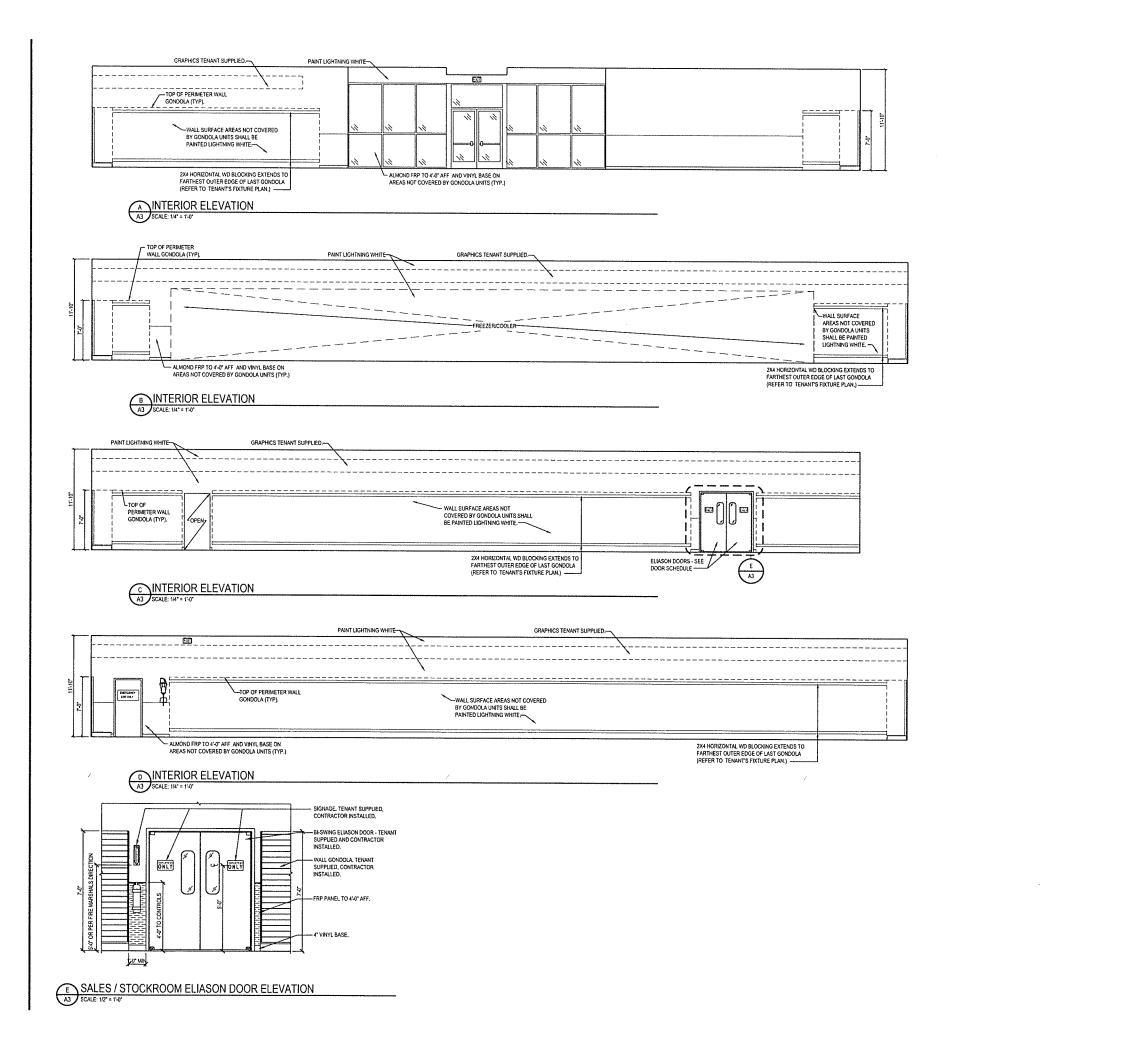






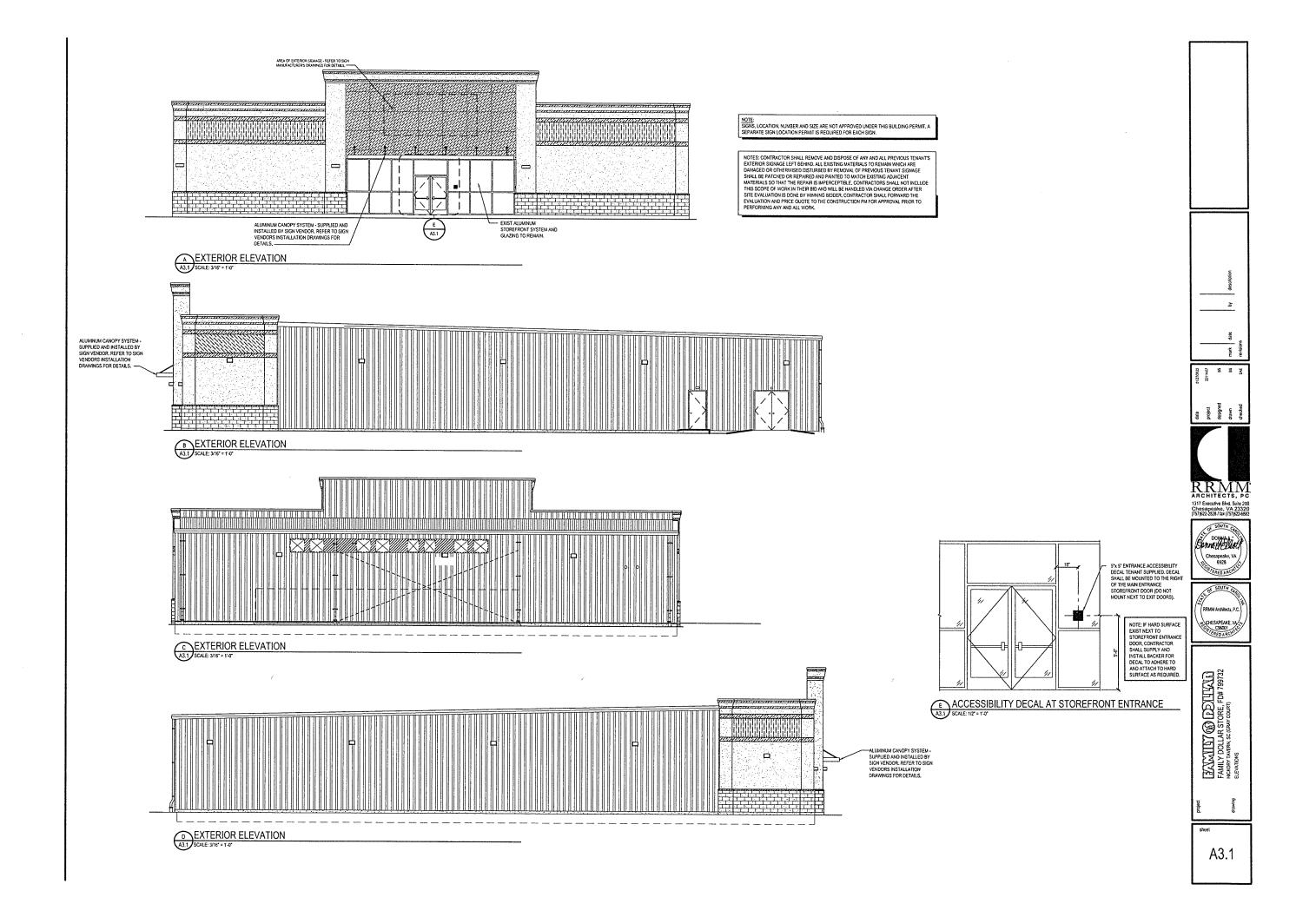
FANILY OF PENTLEXTS
FAMILY DOLLAR STORE, FD# 789732
HICKORY TAKEN, SC (GRAY COURT)
REFECTED CELING FUN AND LEGEND

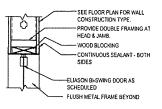
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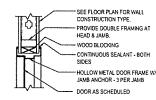


1317 Executive Blvd, Suite 200 Chesapeake, VA 23320 (757)622-2828 / fax (757)622-6883 Sonna Herland Chesapeake, VA 6928 5928 6928 ARCHITE CHESAPEAKE, VA. C96001 C97 FRED A RCHITE EZZAZIIVZ (B) [ED] [[VXI] FAMILY DOLLAR STORE, FD# 799732 HICKORY TWERN, SC (GRAY COURT) ELEVATIONS

А3

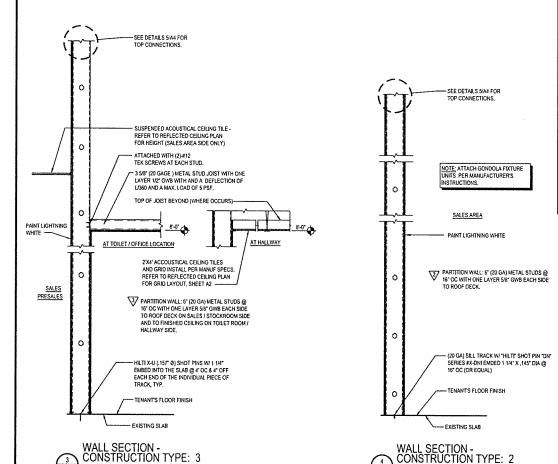


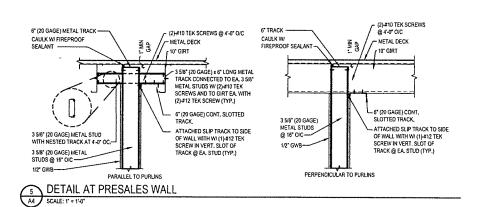












FINISH	SCHEDULE						
ROOM	# SPACES	6 F	LOORS	BASES	WALLS	CEILING	NOTES
101	SALES		ENTRY CARPET TILE / POLISHED CONCRETE		GWB - PAINT PT-1 / FRP TO 4'-0"	ACT	1,2,4,5,7,9,11,12
102	OFFICE	POLIS	SHED CONCRETE	4° VINYL	GWB - PT-3	_	2,7,10,12
103	03 HALLWAY		HED CONCRETE	4" VINYL	GWB-PAINT PT-2 / FRP TO 4'-0"	ACT	2,4,5,7
104 & 105	TOILETS		HEET VINYL	SHEET VINYL	FRP	GWB - PT-3	3.5
106	PRESALES	12° F	LED CONCRETE / AINTED AROUND ETER, COLOR PT-8	-	EXISTING / GWB	-	2,5,6,8,13
100	VESTIBULE	ENT	Y CARPET TILE	STOREFRONT	STOREFRONT	ACT	1,4
PAINT	FINISH SCHEDU	LE		L			
VO. TYPE		COATS	BENJAMIN MC	ORE	BM-LOW VOC BASE PR	RODUCT	***************************************
PT-1 EGGSHELL		2	FD 8M #2019-70 - I	JGHTING WHITE*	SUPER HIDE ZERO VOC LATEX -		
PT-2	SEMI-GLOSS ENAMEL	2	"FD BM #2019-70 - I	IGHTING WHITE	SUPER HIDE ZERO VOC LATEX -	358	
PT-3	SEMILGI OSS ENAMEI	2	"ED BLUDUITE"	****	CHOCK WAS JEDO MOCKATEN	260	

NO.	TYPE	COATS	BENJAMIN MOORE	BM-LOW VOC BASE PRODUCT
PT-1	EGGSHELL	2	"FD 8M #2019-70 - LIGHTING WHITE"	SUPER HIDE ZERO VOC LATEX - 357
PT-2	SEMI-GLOSS ENAMEL	2	"FD BM #2019-70 - LIGHTING WHITE"	SUPER HIDE ZERO VOC LATEX - 358
PT-3	SEMI-GLOSS ENAMEL	2	"FD BM WHITE"	SUPER HIDE ZERO VOC LATEX - 358
PT-7	SEMI-GLOSS	2	"FD BM GREY"	TOUGH SHEILD ACRYLIC GLOSS - TY 43
PT-8	SEMI-GLOSS	2	"FD BM WHITE"	TOUGH SHEILD ACRYLIC GLOSS - TY 43
PT-9	PRIMER	1	"OFF WHITE"	PRO-CRYL UNIVERSAL ACRYLIC PRIMER - B66W00310
PT-9	SATIN FINISH	2	"SW #6087 LRV 37% - TRUSTY TAN"	
FINI	SH NOTES			

- CARPET TILE: MANUFACTURED BY PORTICO SYSTEMS AND TENANT SUPPLIED (CONTRACTOR INSTALLED, INSTALL TILES CUARTER TURNED AND PER TENANT'S CRITERIA.
 ENTRY TILE: DOMINATOR LP TILE: ANTHRACITE #1593,
 CONTRACTOR SHALL PREPARE FLOOR SURFACE AND COORDINATE CARPET INSTALLATION W/ CARPET INSTALLER.
- VINYL COVE BASE: 4" HIGH TOPSET COVE VINYL ARMSTRONG, BLACK VINYL BASE ON EXPOSED AREAS ONLY IN SALES ROOM (NOT BEHIND GONDOLAS AND FREEZER (COOLERS), VINYL COVE BASE TO BE LOCATED INSECSED AND CARBET ON THE CONTROL OF THE CONTRO IN PRESALES AT MOP SINK AND CABINET ONLY UO
- SHEET VINYL: CLASSIC CORLON SERIES MANUFACTURED BY ARMSTRONG - CONNECTION CORLON "PORCELAIN" #88724 OR EQUAL
 SHEET VINYL BASE: INTEGRAL, 38" RADIUS, 5" HIGH COVED BASE W/
 COVE STICK AND EXTRUDED ALUMINUM CAP TRIM.
- PROVIDE 2'-0" X 4'-0" CEILING TILE EQUAL TO ARMSTRONG "CORTEGA" MINABOARD #769, WHITE, IN A WHITE METAL GRID, (IN AREAS WITH SIGNIFICANT AIR PRESSURE DIFFERENTIALS PROVIDE RETENTION CLIPS TO RETAIN PANELS IN PLACE.) SEISMIC ZONE C REQUIREMENTS, ARMSTRONG SEISMIC RX SUSPENSION SYSTEM ICC REPORT ESR-1308, MINIMUM 7/8" WALL MOLDING, SUSPENSION SYSTEM MAY BE CUT TIGHT ON TWO ADJOINING WALLS. MINIMUM 3/8" CLEARANCE ON TWO UNATTACHED WALLS. BERC OR BERC2 ON
- ACL WON BEAMS.

 S. FEP PIBERGIASS REINFORCED PANEL GLASBORD # 85 WHITE W
 PEBBLED EMBOSSED FINISH, BY CRANE COMPOSITES OR EQUAL);

 NI TOLET ROOM FROM FLOOR TO 8-0" AFF SHALL BE WHITE COLOR.
 FRO TO 8-0" AFF IN PRESALES BEHIND MOP SIM AND UTILITY
 CABINET ONLY, FRP IN HALL WAY FROM FLOOR TO 4-0" AFF BEHIND
 DRIWING FOUNTAIN ONLY, FRP ON SALES FLOOR (WHERE NOTED
 ON PLANSELEVATIONS) SHALL BE ALMOND COLOR WITH 1"
 CHANNEL TRIM CAP AND "IF CHANNEL PANEL CONNECTORS.

- 6. SEALER: CLEAR ACRYLIC SEALER BY MASTERKURE, CC 300SB OR FOS APPROVED SUBSTITUTE
- 7. POLISHED CONCRETE FLOOR PER MANUFACTURE SPECIFICATIONS BY TENANT'S VENDOR, COORDINATE WITH TENANT
- 12° STRIPE AROUND PERIMETER & AROUND COLUMNS: COLOR-PT-8.
 BAND SHALL BE PAINTED PRIOR TO PAINTING ANY YELLOW CLEAR
- EXPOSED STEEL COLUMNS TO BE PAINTED PT-1. ROUND COLUMNS ARE NOT TO RECEIVE COVE BASE.
- 10. PROVIDE PREFORMED COUNTER WITH WHITE HIGH PRESSURE LAMINATE FINISH, MOUNT TO WALLS, FILING CABINETS PROVIDED BY TENANT. SEE ENLARGED OFFICE PLAN AND OFFICE ELEVATION.
- 11. SALES AREA TO RECEIVE LEVEL 4 FINISH, PROVIDE FINISH TO 1-0" BEHIND FREEZER / COOLER AND GONDOLA. TO FF EVERYWHERE ELSE, CONTRACTOR SHALL ALLOW 72 HOUR CURE TIME.
- 12. SLATWALL: 3/4" SLATWALL WITH WHITE MELAMINE FINISH. SEE MANUFACTURER'S DRAWINGS FOR INSTALLATION DETAILS, SLATWALL IS TENANT SUPPLIED / CONTRACTOR
- 13. PAINT EMPLOYEE AREA WALLS PT-4 TO 4'-0" AFF.

OR SCH	EDUL	LE								
	DC	ORS			DETA	AILS		FR	HDW	DOOR
W	н	T	MATERIAL	TYPE	HEAD	JAMB	SILL	FK	NOTES	NOTES
3'-0" 6	-8"	1 3/4"	SOLID CORE WOOD	С	2/A4	2/A4			100A	5.14
PR 3'-0" 7	'-O"	.063*	TEMP, ALUM ALLOY	D	1/A4		-		200A	2,5,7,10,12
3'-0" 6	-8.	1 3/4*	SOLID CORE WOOD	С	2/A4	2/A4	٠		300C	5,6,9,14
PR 3'-0" 7	.0.	1 3/4"	EXIST HOLLOW METAL	E			-		400A	3,4,5,8
3'-0" 7	0,	13/4"	EXIST HOLLOW METAL	В	-		-		400C	3,4,5,8,11
PR 3-0" 7	.0.	13/4*	EXIST ALUM & GLASS	A	-		-		500A	1,3,6,13
	_	7-0"								

DOOR NOTES

- 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
- NEW DOORS SUPPLIED BY TENANT ELIASON BI-SWINDOORS W/ WINDOW .
- DOOR, FRAME AND HINGES ARE EXISTING. PROVIDE AND INSTALL ANY MISSING ITEMS OF HARDWARE PER HARDWARE NOTES.
- PROVIDE (ONE) PEEP HOLE TO VIEW OUT, MOUNT @ 4-3" AFF.
- PAINT DOOR AND FRAME W/ WHITE SEMI-GLOSS ENAME!
- INSTALL TENANT SUPPLIED SIGNAGE PER DETAIL B/A1.2.
- REINFORCE JAMBS WITH WOOD BLOCKING CONTRACTOR TO PROVIDE AND INSTALL DOOR SWEEP ON ALL EXTERIOR DOORS TO PREVENT WATER, WIND AND DEBRIS INFILTRATION.
- MOUNT TENANT SUPPLIED COAT HOOK AT 48" AFF. ON BACK SIDE OF DOOR. PAINT DOOR FRAME WHITE WITH SEMI-GLOSS ENAMEL PAINT, DOOR TO REMAIN WITH ORIGINAL FINISH,
- PROVIDE SIGNAGE THAT READS "EMERGENCY EXIT
- PROVIDE SIGNAGE THAT READS 'EMPLOYEES ONLY,"
- PROVIDE NYLON WASHER/GROMMETS AT THE DOOR HANDLES AND CRASH BARS TO PREVENT METAL ON METAL CONTACT.
- . ALL DOOR FRAME, CASED OPENING AND HARDWARE MATERIAL WILL BE SUPPLIED BY TENANT, GC IS RESPONSIBLE FOR INSTALLATION.

GENERAL HARDWARE NOTES

- . 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 44" (MAX) AFF AND SHAL BE "SINGLE-HANDED" OPERABLE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE,
- 3 WHERE EGRESS DOORS ARE USED IN PAIRS THE WHERE EXERCES DOURS ARE USED IN PAIRS, ITHE UNLATCHING OF THE LEAF SHALL NOT REQUIRE MORE THAN ONE (1) OPERATION AS MENTIONED IN GENERAL HARDWARE NOTE #2 ABOVE.
- 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 FORCE REQUIRED TO ACTIVATE CONTROLS OF INTERIOR HINGED DOORS SHALL BE NO GREATER THAN 5 POUNDS (22.2 N).
- 6. DOORS EQUIPPED WITH CLOSERS SHALL BE ADJUSTED SO THAT THE SWEEP PERIOD FROM AN OPEN POSITION OF 70 DEGREES WILL TAXE AT LEAST 3 SECONDS TO MOVE TO A POINT 3' FROM THE LATCH, MEASURED FROM THE LEADING EDGE OF THE DOOR.

HARDWARE NOTES

IDW # 100A

- 1 1/2 PAIR HINGES: STANDARD WEIGHT 1 MECHANICAL PUSH BUTTON LOCKSET WITH LEVER HANDLE
- 1 FLOOR STOP
- 1DW # 200A LWP-3 ALUMINUM TRAFFIC DOOR EASY SWING HINGE SYSTEM
 9° X 30° CLEAR ACRYLIC WINDOW
 FLUSH HOLLOW METAL FRAME - DRYWALL
- HOW # 300C 1 1/2 PAIR HINGES: STANDARD WEIGHT 1 PRIVACY SET WITH LEVER HANDLE
- (FLOOR/WALL STOP IF SHIPPED WITH

HDW # 400A 3 PAIR HINGES: 4 1/2" HEAVY WEIGHT,

- NON-REMOVABLE PINS 1 NON-ALARMED, NON-KEYED PANIC BAR DEVICE: WITH STAND ALONE ALARM REFER TO DOOR ALARM MOUNTING
- 2 OVERHEAD HOLDERS/STOPS 2 FLUSH BOLTS (ON INACTIVE LEAF)
- 1 DUST PROOF STRIKE 1 PEEP HOLE
- 1 ALUM THRESHOLD (1/2" MAX HEIGHT)
- 2 SWEEPS 1 WEATHER STRIP

10W # 400C 1 1/2 PAIR HINGES: STANDARD WEIGHT, NON-

- 1 1/2 PAIR HINGES: STANDARD WEIGHT, NON-REMOVABLE PINS 1 NON-ALARMED, NON-KEYED PANIC BAR DEVICE: WITH STAND ALONE ALARM REFER TO DOOR ALARM MOUNTING DETAIL 1 CLOSER WITH STOP ARM 1 PEEP HOLE 1 ALUM THRESHOLD (1/2" MAX HEIGHT) 1 SWIEEP 1 RAIN DRIP 1 RAIN DRIP 1 RAIN DRIP

- HDW # 500A
 HINGES PER STOREFRONT MANUFACTURER
 (BY GENERAL CONTRACTOR)
 2 CLOSERS WITH STOP ARM AND DROP PLATE
 2 PUSH PLATES (BY GENERAL CONTRACTOR)
 1 FABA CYLINDER (SUPPLIED BY TENANT)
 1 COMMEDIAL GRAD FOR DOLONG WITHING HE 1 COMMERCIAL GRADE DEADLOCK W/ THUMB URN ON SALES SIDE (BY GENERAL CONTRACTOR)
- NOTE: CONTRACTOR SHALL VERIFY CLOSER CLOSER DOES, THE CONTRACTOR SHALL REPLACE WITH NEW CLOSER.



agr.







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ORE, FD# 799732 FAMILY DOLLAR STO

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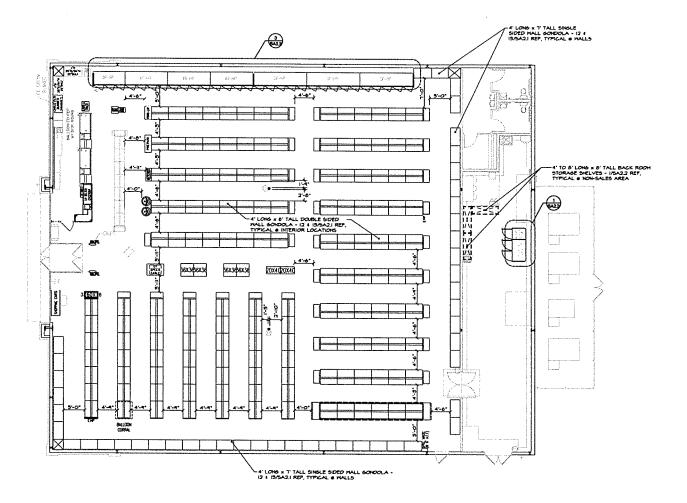
	RACK LEGEND
TYPE NOCATED	DECSPPTION
	4' LONG x 6' TALL DOUBLE SIDED SONDOLA - 12 i 13/3A3) REF, TYPICAL ® INTERIOR LOCATIONS
	4' LONG x 8' TALL SINGLE SIDED WALL GONDOLA - 12 4 13/5A21 RZF, TYPICAL @ WALLS
	S'LONG.K.B' T/ GONDOLA - 12 NOT USED TRICAL O TRAILS THERE:
[><]	4' TO 8' LONS x 8' TALL BACK ROOM STORAGE SHELVES - USAJ2 REF. TTPICAL B KON-SALES AREA

NOTE: FIXTURE PLAN IS PROVIDED FOR REFERENCE TO ANCHOR REQUIREMENTS. SEE ARCHIL FIXTURE PLAN FOR ALL INFORMATION NOT SHOPN.

NOTE: SEE SAZB FOR FREEZER/COOLER ANCHORAGE REQUIREMENTS

NOTE: SEE 5A2.) FOR GONDOLA ANCHORAGE & SA2.2 FOR BACKROOM SHELVING ANCHORAGE.

SPECIAL INSPECTION NOTE:
- SPECIAL INSPECTION REQUIRED FOR EPOXY AND EXPANSION ANCHOR INSTALLATION (PER ICC REPORT)



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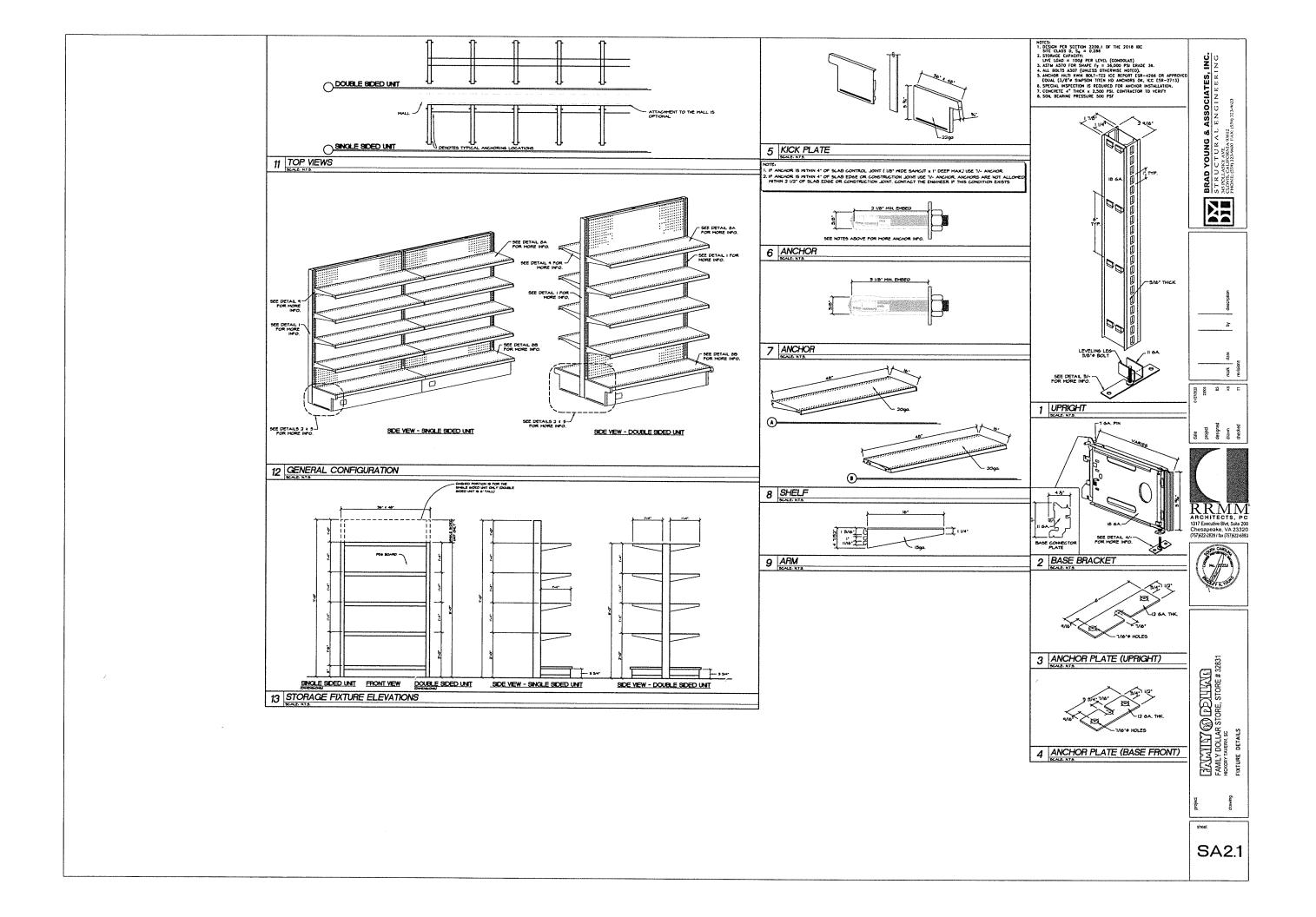
BRAD YOUNG & ASSOCIATES, INC.
STRUCTURAL ENGINEERING
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PHONE (59) 123-9603

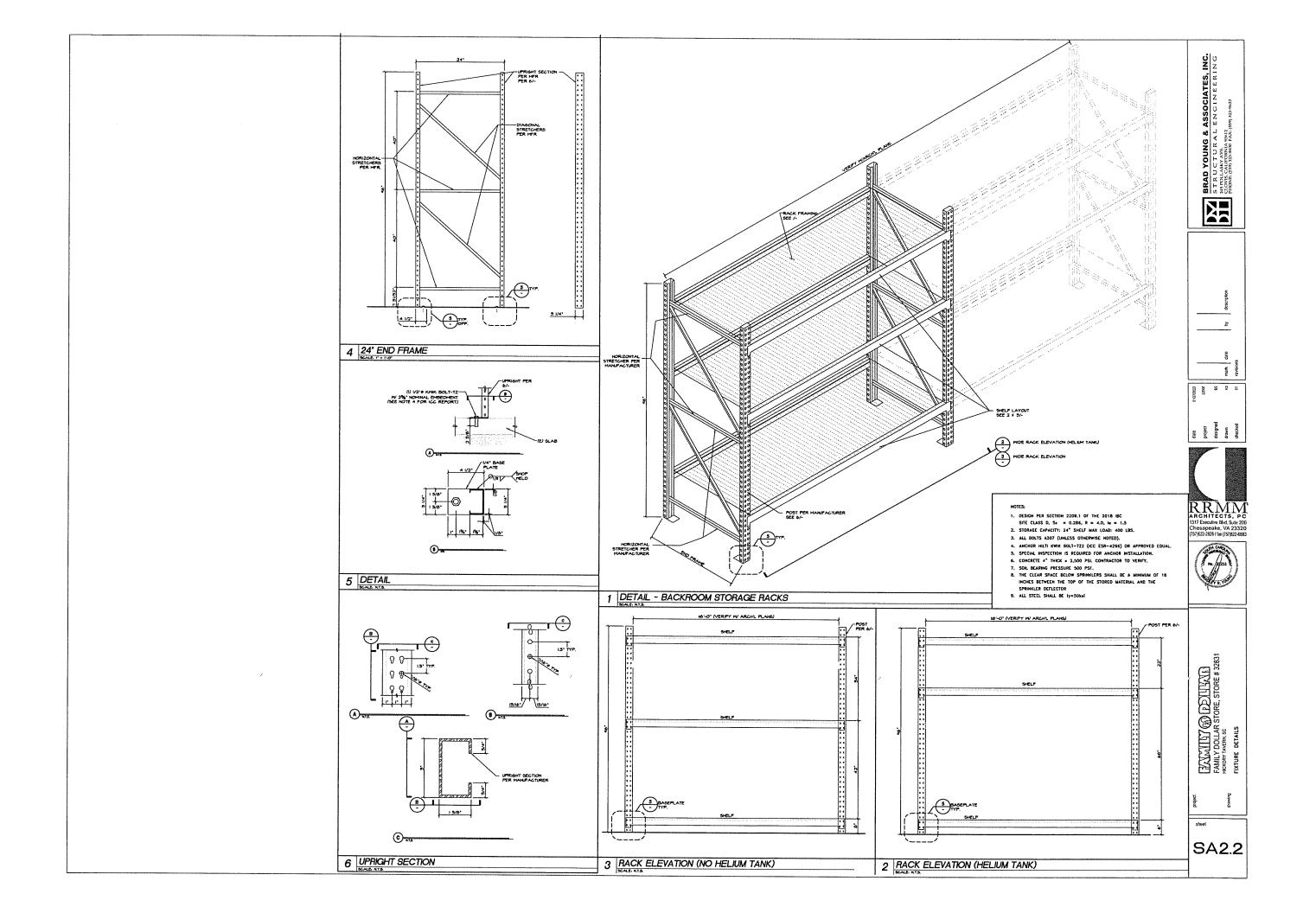
1 FIXTURE PLAN

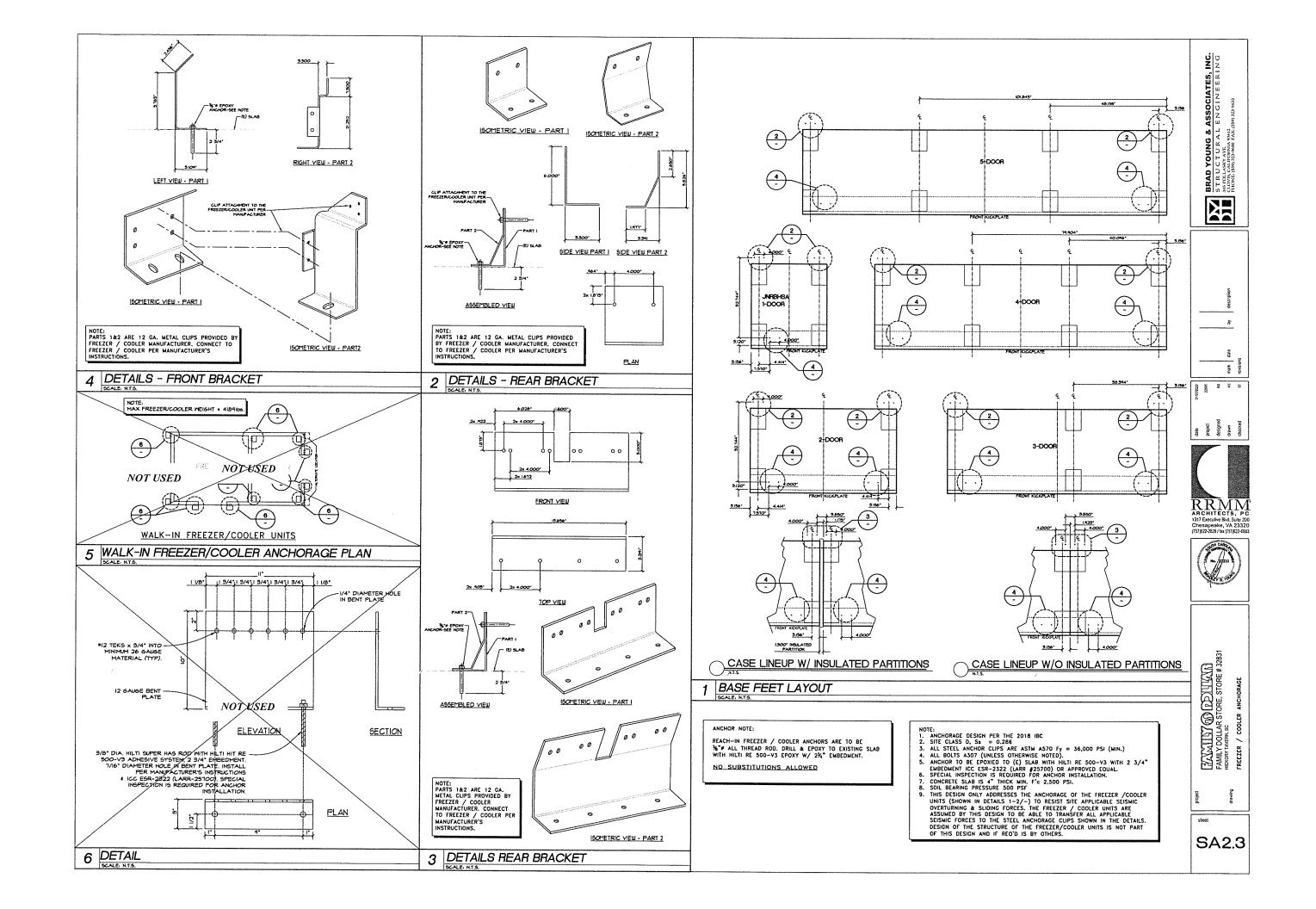


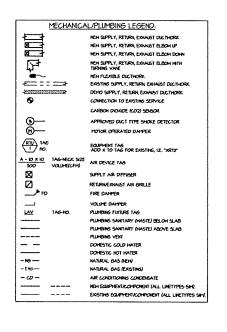
FAMILY ODLAR STORE, STORE# 32831
FIXTURE PLAN
FIXTURE PLAN

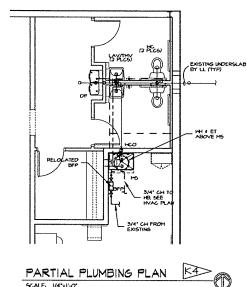
SA1.1

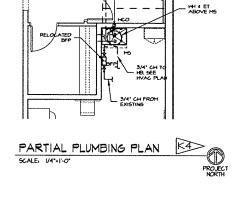


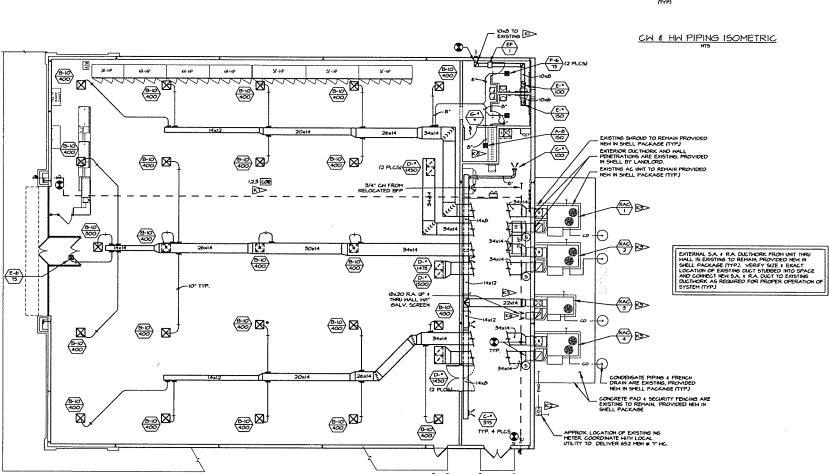












SITE UTILITIES

- CONTRACTOR SHALL VERIFY POINT OF CONNECTION TO SITE UTILITY SERVICE PRIOR TO COMMERCING INSTALLATION
- CONTRACTOR SHALL VERIFY EXISTING SANTARY SCHER INVERT PRIOR TO START OF HORK, IF INVERT CANNOT MEET SLOPE REQUIREMENTS WITH NEW TENANT FIRMS, NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- CONTRACTOR SHALL ADJUST LOCATION AND DEPTH OF BUILDING SERVICES AS REQUIRED TO CONNECT TO SITE UTILITY SERVICE.
- CONTRACTOR SHALL MAKE FINAL CONNECTION TO SITE UTILITY SERVICE (MILESS OTHER PROVISIONS HAVE BEEN MADE)
- CONTRACTOR'S FAILURE TO PROPERLY COORDINATE SERVICES SHALL NOT BE JUSTIFICATION FOR ANY EXTRA CHARGES.

GENERAL NOTES

- WHEN REQUIRED, HVAC ROOF CURBS SLOPED TO MATCH ROOF PITCH SHALL BE PROVIDED BY CONTRACTOR AND ARE NOT PART OF THE NATIONAL ACCOUNT PROVISIONS. REFER TO KEYED NOTES ON THIS SHEET FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL IDENTIFY ALL HVAC EQUIPMENT WITH STORE HAME AND UNIT NUMBER USING PROOF 2" HIGH DIE-CUT LETTERS.
- PROVIDE PROPER CONDENSATE TRAP AND TERMINATE AS REQUIRED BY LOCAL CODE
- ANY PENETRATION THROUGH THE ROOF SHALL BE COORDINATED WITH THE LANDLORD'S FIELD REPRESENTATIVE AND SHALL BE DONE BY A LANDLORD APPROVED ROOFING CONTRACTOR IN ORDER TO MAINTAIN THE ROOFING MARRANTER LALL VENTS SHALL EXTED A MINIMAM OF 12 INCHES ABOVE ROOF AND SHALL BE A MINIMAM OF 10 FEET FROM ANY OUTSIDE AIR INTAKE.
- ALL DUCT SIZES SHOWN ARE CLEAR INSIDE AIR FLOW DIMENSIONS.
- DO NOT PROVIDE AIR EXTRACTORS OR SPLITTER DAMPERS WHICH PROTRIDE INTO RECTANGULAR TRUNK DUCTS (WHERE USED). PROVIDE ROUND SPIN-IN FITTINGS FOR ROUND BRANCH DUCTS.
- ROUND BRANCH DUCTS (INTERE INDICATED) ARE SAME SIZE AS ATTACHED DIFFUSER NECK SIZE.
- do not suspend any items from deck or slab above. All items shall be suspended from top chord of structure, unless otherhise noted. Provide miscellaneous steel as regured.
- HIBRE CELLING SPACE IS NOT SUFFICIENT TO PERMIT TOP CONNECTION TO CEILING DIFFISER WITH PROPER BEND RADUS FOR FLEXIBLE DUCT, CONTRACTOR SHALL FABRICATE AND/OR PROVIDE AN ADAPTER BOX FOR DIFFISER TO PREMIT BIOC CONNECTION OF FLEXIBLE DUCT.
- CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL HORK HITH LANDLORD'S FIELD REPRESENTATIVE
- PROVIDE SUPPORT FOR PIPING ON ROOF PER LANDLORDS ROOFING CONTRACTORS RECOMMENDATIONS.
- HHERE AN OPEN CEILING PLAN IS UTILIZED FOR THE SALES AREA, AIR DEVICES SHALL BE INSTALLED AT 12'-0' A.F.F., OR COORDINATED WITH LIGHTING INSTALLATION HEIGHT, VERIFY ALL REQUIREMENTS WITH PROJECT MANAGER.
- FOR EXISTING DUCT SMOKE DETECTORS, FURNISH AND INSTALL A REMOTE AUDIBLEAVISUAL ALARM DEVICE HITH A REMOTE TEST SHITCH (SYSTEM SENSOR #56X49) LOCATED IN AN APPROVED LOCATION AND HIRE EXISTING DETECTORS TO ALARM, FILLD YERPY EXACT REQUIREMENTS, CONTRACTOR SHALL TEST SYSTEM TO INSURE PROPER FUNCTION PRIOR TO TENANT OCCUPYING SPACE.
- SMACHA EGIVALENT ROAD DICT SIZES HAT BE SUBSTITUTED FOR THE RECTANGULAR DICT SIZES INDICATED ON THE PLANS. ALL DICT, INSLATION, AND OTHER MATERIALS AND SPECIFICATIONS SHALL BE PER PLANS. EQUIVALENT SIZENG SHALL BE PEXT HOME STANDARDS FOR FROM DICTULATOR SIZENG EGI, MAZ = 183 FARMO LISE IN INCH. ROAD). SUBSTITUTION SHALL BE ON A DODITIONAL COST OR THE TO THE TENANT DELIVERY, CONTRACTOR SHALL BEAR ANT COST BIRDEN BICKNESS OF THE SIZE OF PLANS FOR COORSINGERCTIONS.

KEYED NOTES

EXTEND AND CONNECT IO EXHAUST DUCT TO EXISTING DUCT THRU HALL PROVIDED NEH IN THE SHELL PACKAGE.

NATURAL GAS SERVICE IS EXISTING, PROVIDED NEH IN THE SHELL PACKAGE BY LANDLORD. COORD LOCAL UTILITY TO DELIVER 652 TOTAL MEH AND ESTABLISH TENANT METER AND BILLING.

ENISTING HVAC UNIT, CONDEMSATE DISPOSAL, HALL OPENINGS AND EXTERIOR DUCTHORK TO REMAIN PROVIDED NEH IN THE SHELL PACKAGE BY THE LANDLORD, CONTRACTOR SHALL PROVIDE AND INSTALL NEH DUCTHORK, ACCESSORIES, AND CONTROLS AS INDICATED ON THE PLANS, SCHEDULE, AND GENERAL NOTES.

CONTRACTOR SHALL OBTAIN A COPY OF ALL PLUMBING SPEC SHEETS PRIOR TO INSTALLATION CONTRACTOR SHALL ROUGH IN ALL PLUMBING BASED ON THE SPEC SHEET.

CONTRACTOR SHALL LOCATE BOTTOM OF STOCK ROOM DICTHORK 12-0" HILL ABOVE STOCK ROOM FLOOR ABOVE LIGHTS, NY DECENTION TO THIS DIRECTIONS OF TO INTERPRETED HITH ANY BUILDING OBSTRUCTIONS SUCH AS A THE PROPERTY OF THE PROPERTY

COVER OPEN END OF RETURN DUCT HITH I' MESH HARDWARE CLOTH IN A REMOVABLE METAL FRAME. SEE DETAIL SHEET MP2.

TENANTS CONTRACTOR SHALL INSTALL TENANT VENDOR PROVIDED CO2 SENSOR ON COLUMN AT 6'-O' A.F.F. THIS SENSOR SHALL CONTROL MAC-1, 2 4 3. SEE EM SHEETS FOR MORE INFORMATION.

ADJUST DIFFUSER FOR FULL VERTICAL DISCHARGE INTO OFFICE BELON



mark

63622 7, 7, 98 date project designe drawn checked



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FAMILY DOLLAR STORE, FD# 799732 HOCKET NOT STORE, FD# 799732 HOCKET TO THE PROPERTY FOR THE PROPES

MP-I

HVAC PLAN PROJECT NORTH SCALE: 1/8"=1"-0" NOTE: HYAC UNIT LOCATION AND ORIENTATIO SHOWN IS FROM INFORMATION PROVIDED BY LANGLORD. PRIOR TO UNIT INSTALLATION, COMPRACTOR SHALL VEHICY EXACT LOCATIO FRIOR TO START OF ANY WORK. BOTE- HVAC TEMPERATURE SENSOR.
CONTRACTOR SHALL REFER TO THE TEMPERATURE
SENSOR MOUNTING DETAIL FOR PLACEMENT AND
INSTALLATION INSTRUCTIONS PRIOR TO INSTALLING.

(2¹4265)

(2 ACS)

DWV PIPING ISOMETRIC

DUCTHORK NOTE: CONTRACTOR SHALL SITE VERIFY EXISTING

NOTE CONTRACTOR:
DACTIONS SMALL BE SIZED AND
INSTALLED AS DISCARED ON IMPOSES
SMALL BE AND IMPOSED FOR IMPOSES
SMALL BE PANDE IMPOSIT FRIDR
RESTLEN APPOSIAL FROM IERNAT.
FAULES TO DO SO SMALL RESALT IN
CONTRACTOR REPOVING INSTALLED S
SMORN AT IND ADDITIONAL COST TO
INDIANT, MINOR DUCT CHANGES DIE TO
EXACT, INSTALLED S
SMORN AT IND ADDITIONAL COST TO
INDIANT, MINOR DUCT CHANGES DIE TO
EXACT, INSTALLED S
CREMATION SMALL BE ASCEPTABLE.

NOTE- HVAC CONTROLS, CONTRACTOR SHALL REFER TO THE EM SHEETS FOR INSTALLATION INSTRUCTIONS FOR THE VENDOR FURNISHED, CONTRACTOR

								EXISTING	AC UNIT SO	HEDULE (c	305 h	eat/elec.co	ool)						
HARK	HF6MODE.	OSCUADOS	L	E40			CATSIDE AIR		NET COOLING O	APACITY MON	ARI,	HEATING FUEL	HEATING O	APACITY	AFLE	ELECTRICAL	HCAV		UNIT HEIGHT
1444		DISCHARGE	.00	1	ur	CFH (HN)	CFH (MAX.)	CONDITIONS	TOTAL	506BLE	圞	TEATED THE	INPUT	CUTPUT	3.	YOUT / PH / HZ	HOCP	ACCESSORIES	(195)
XAC-I	YORK ZYGO4F	HORIZONTAL	85	ıø	3200	300	900	BOT DE SIT WE	112.6	82.3	12.2	MATERAL GAS	180	144	62	208/3/60	42.4/50	23,456,7	EXISTING
XAC-2	YORK ZY604F	HORIZOHTAL	05	פו	9215	500	850	SOF DO 614 HO G T AHBENT	826	825	12.2	NATURAL GAS	. 150	144	62	208/3/60	42.4/50	25,456,7	EXISTING
XAC-3	YORK ZY600E	HORIZONTAL	4	10	1600	200	200	OF DE DITHE	54.5	56.4	15.4	HATURAL GAS	112	90	52	208/3/60	25.1/35	23,456	EXISTING
XXC-4	YORK ZYGOAF	HORIZONTAL	85	10	3200	300	850	ANT DE 611F HE	112.6	823	122	NATURAL GAS	180	144	62	200/3/60	12.4/50	23,4563	EXISTING
ACCES	V101F4 PD	WIDED A	UC D	KTA	LLED	BY I AND	000 N 64	DI PACKACE			• • • • • • • • • • • • • • • • • • • •			-					

FULL PERIMETER INSULATED ROOF CURB, SLOPED PER ROOF REQUIREMENTS FOR LEVEL UNIT INSTALLATION

2. DIFFERENTIAL ENTHALPY ECONOMIZER WITH BAROMETRIC RELIEF

4. UNIT MOUNTED NON-POHERED HEATHERPROOF OFCI OUTLET

5. UNIT MOUNTED DISCONNECT SHITCH

ACCESSORIES PROVIDED BY TENANT FOR TENANT CONTRACTOR INSTALLATION.

6. INSTALL DIS CONTROLS PACKAGE.

T. COST OPENAI CONTROLS VENTILATION. CA HINL OPEN POSITION SHALL DE THE MIN. AND SHALL MODILATE OPEN UP TO THE MAX. TO MAINTAIN MAXIMUM COST LEVELS IN THE BREATHING AREA
OF LOSO PPM RELATINE TO THE CA AMBIENT.

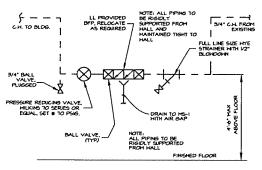
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OF 1000 PPM RELATIVE TO THE UN APPEIRS.

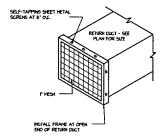
NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR ALL STARTUP AND MARRANTY MORK, VERIFY ELECTRICAL POWER PRIOR TO INSTALLING UNITS, FAILURE TO DO SO SHALL RESULT IN
CONTRACTOR RENISHING CORRECT UNITS OR POWER AT NO ADDITIONAL COST TO TENANT. OUTSIDE AIR QUANTITIES BASED ON ASHRAE 621-2004 TABLE 6-1 BUILDING AND PEOPLE
COMPONENTS FOR AN ENGINEERED VENTILATION SYSTEM EMPLOYING A CO2 MONITORING SYSTEM.

NOTE:
ALL MODEL NUMBERS, ACCESSORIES AND OFERATING CHARACTERISTICS CALCULATIONS ARE BASED ON INFORMATION PURNISHED BY THE LANDLORD AND MUST BE FIELD VERIFIED.
ANY DEVIATION FROM THE INFORMATION SHOWN SHALL BE REPORTED TO THE ENGINEER AT THE BEGINNING OF CONSTRUCTION AND PRIOR TO FABRICATION OF ANY SYSTEM, UNIT

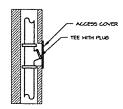
	VENTLATION AR CALCULATIONS														
Zone	Unit	Occupancy Category	DOAS / 52 / HZ	Area (d)	People CIA Rate (Lim/oer)	Area DA Rate (cim/si)	Occcupant Dansey (NAOOO H)	Occupants	Breathing Zone OA Flow Vita (clin)	Zone Air Onstribution Ell.	Zone Oktobar Atrion Vazificimi	System Verdillotion Eff.	OA Intoke Flow Required Vol.Vicinal	Total DA Delivered (CPH)	UNI DA Delivered
	XAC-I								1-2 10-11		· DEDICTION				400
SALES	XXC-2	RETAL	- 52	8656	15	012		134	2014	l		1		1	
					1 ' 1	0.2			_£o™	10	2014	0.5	2549	2600	850
	XAC-4								I	Į.	l			i	850
STOCK	XAC-3	STORAGE	ક્રા	1518	0.0	012	0	0	134	10	134	0.5	165	200	200



BACKFLOW PREVENTER DETAIL



REMOVABLE METAL FRAME DETAIL NOT TO SCALE



TYPICAL WALL CLEANOUT DETAIL

	TEE HITH PLUS
M	

MARK	FIXTURE TYPE	HANGFACTURER	FIX	TURE C	CHECT	1016	REHARKS
-	PIXIONE TIPE	MODEL NO.	CH	144	н	T V	RETORNES
DE	BI-LEVEL HANDKAP DRINKING FOLNTAIN	ELKAY MODEL NO. EMABITLADILG NON-REFRIGERATED	1/3"		i N3.	1/2*	PARNSH STANDARD CABRET FINISH FOUNTAIN SEPPLY STOP I TIDE DRAIN KIT, AND HALL HANGER KIT
EI	EXPANSION TANK	HATTS HOOSE PLT-5	341	-			FOA APPROVED, POTABLE HATER EXPANSION TAI 21 GALLON ACCEPTANCE
is.	PLOOR HITD: HOP SINK	ZLFOI HODEL 21996-56	1/2"	V3*	2,	2"	FURNISH SINK, ZURN MODEL NO. ZUHUM SERVICE SINK FALKET MITH BURT-IN VACUUM BREAKER, HOSE AND BRACKET, MOP HANSER, AND DRAIN KI
LAY	HANDICAP HALL HING LAVATORY	ZIRN MODEL NO. 25344 HITH UZ GPM FLOW RESTRICTOR, GRID DRAIN, FAIXET HOLES ON 4" CENTERS	1/2"	V2*	ı 1/2•	1/2	FIRMSH LAVATORY, ZURY 206500-XL LEAD FREE METERING FALLET, MALL HANGER KIT, SUPPLY STOPS + TUBES, DRAIN, AND AND PIPMS PROTECTION
IMY	HUGHS VALVE	5174H095 H00EL 7-225-CX-F	vz-	V2-		-	VZ TEMPERED OUTLET, MAX OUTLET TEMP, 105 F ACCORDIANCE HITH ASME AND 18.1, ASSE 1017 AND 1010, AND HSF/ANSI 61.9 1 372.
UES	URINAL.	ZURN MODEL 25155-U, 3/4" TOP INLET SPUD, CUTLET SPUD, 0125 GPF.	3/4*	-	2.	N3.	FIRMSHED HITH URINAL, 3/4" ZURN MODE NO. ZBOOSBAY-LLF FLUSH VALVE, MALL HANGER KIT, TOP SHID, MOUNT TOP OF FROM RIM IT ABOVE FINSHED PLOOR.
њ	HANDICAP HATER CLOSET	ZERN MODEL 25560 IT H ELONGATED PRESSURE ASSIST LD 6.P.F.	vz.	-	3.	2	FURNISH ADA CLOSET I TANK, ADA OPEN FROM SEAT, SELT SUSTAINING HINEE, ICAD PLANE (LOSET BUTTS I CAPS, HAX RING SPPLT SIOP I TUBE FLUEN CONTROL MOST BE LOCATED ON THE MOSIACLESS SIDE OF THE MC SICKE OPPOSITE THE HALL).
HCO	HAT CTENOL	ZURN MODEL #2-1446		-	LINE		RAISED HEADPLIIS POLISH 5.5. COVER & VANDAL PROOF SCREIN
世	ELECTRIC HATER HEATER	BRADFORD HATE MODEL NO. REICUB NETH GATEY SACIN DRAIN FAN AND JURN VRIG VACUM RELEF VALVE	34.	3/4"		-	FIRMSH IO GALLON SHORT HATER HEATER, IZOVI 2000 H BLEMENT HITH T & P RELIEF VALVE AND INTEGRAL HEAT TRAPS.

COTE.

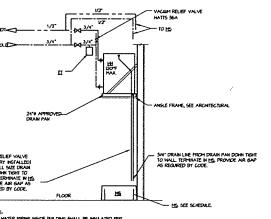
NOTE.

NO

					5CHE		-
	CONT	K-C 10	ж PK	OVIDED,	CONTRA	CTOR PISTALL	ED
HARK	HFR.HOOEL	CFM	RPH	ESP N. H.G.		BLECTRICAL V/PH/Hz	ACCESSORES
БFЧ	YORKATINI BARRY CLEHITOA	250	1554	050	HIL	115 / 10 / 60	1, 2, 3, 4, 5, 7
ACCI	esories/option	2 3 4 5. 6.	BACKI PLUS SPEED VERA CONTR START FAN S	DRAFT E DISCONN CONTRE TROM ISC VOLLED I FAN AT	MAMPER BCT CLIER XATION BY LINE 555°F AN INTERLO	P HITH INSECT MOUNT KIT VOLTAGE THEF VO STOP PAR I XCKED HITH M	PHOSTAT TO AT 15°F.

GF			ISTER 4 R PROVIDE			
HARK	MFR	HOOEL	MATERIAL	DEVICE	HOUNTING	TYPE
۸	W.	51200A	STEEL.	12° X 12°	LAY-N	SUPPLY
В	BALLY	51200	STEEL.	24. × 24.	LAY-IN	SUPPLY
c	BALLEY BALLEY	164	STED.	2" x 12"	DUCT	SUPPLY
D	BALLET	CRESCO	AUMHUH	24° X 24°	LAY-H	RETURN
E	DATE:	ПОО	STEEL.	9. × 9.	SAFACE	EXHAUS!
F	BALLEY	51200	STEEL	37 X 17	LAY-M	SHPLY
6	MILE	ADAFR	ALIMBAN	34. X R.	SIFFACE	DOOR GR
NAME	PG/A	***	E / DIEDE	EDE LANI P	ALCOCA	





ALL HATER PIPING INSIDE BUILDING SHALL BE INSULATED PER SPECIFICATIONS SHEET MP9.

EXPANSION TANK (EI) TO BE HOUNTED ON COLD HATER LINE, ON THE TANK SIDE OF THE COLD HATER SHITOFF VALVE.

WATER HEATER DETAIL



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mark





1317 Executive Blvd, Suite 200 Chesapeake, VA 23320 (757)622-2628 / fax (757)622-6883





FAMILY OOLDEN STORE, FD# 799732 HOGGINGEN SC SCEDULES, U

MP-2

GENERAL MECHANICAL CONDITIONS

ENANT SHALL FURNISH SELECTED MECHANICAL EQUIPMENT, ACCESSORIES NO CONTROLS AS SCHEDULED AND AS SPECIFIED. THE MECHANICAL SUBCONTRACTOR'S) SHALL BE RESPONSIBLE FOR DELIVERY COORDINATION, RECEIVING, STORING, SETTING, STARTUP AND INSTALLING ALL TENANT PURNISHED EQUIPMENT AS WELL AS THE ONE YEAR PARTS AND LABOR WARRANTY FROM THE DATE OF STORE OPENING

A. SCOPE

- I. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO PROPERLY INSTALL AIR CONDITIONING SYSTEMS WHERE SHOWN ON DRAMINGS AND AS SCHEDULED.
- 2. PROVIDE EQUIPMENT AS SPECIFIED TOGETHER WITH ALL NECESSARY DUCTS, GRILLES, REGISTERS, CONTROLS, PIPMS, LON VOLTAGE FANS, CONTROL HIRING, HANGERS, STANDS, EQUIPMENT SUPPORTS, FLASHING AT EQUIPMENT, DUCT AND PIPE INSULATION, UNLESS OTHERWISE NOTED.
- 3. RELATED WORK BY OTHERS. a. PAINTING EXCEPT AS HEREIN SPECIFIED. b. LINE VOLTAGE WIRING AND CONDUIT. C. ELECTRICAL SUPPLY CONNECTION TO EQUIPMENT.
- B. ALL HORK SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL CODES AND ANY LANDLORD REQUIREMENTS AS SPECIFIED IN THE EXECUTED LEASE ARREPENTI. CONTRACTOR SHALL YERIFY AND COORDINATE SCOPE OF HORK HITH TENANT AND
- C. THE CONTRACTOR SHALL EXAMINE THE PREMISES AND VERIFY THE EXISTING CONDITIONS INDER NHICH HE HILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE MORK OR THAT HILL IN ANY HANNER AFFECT THE MORK INDER CONTRACT, NO ADDITIONAL COMPRISATION SHALL BE PROVIDED FOR CONDITIONS FOUND DURING THE EMECUTION OF CONTRACTED MORK THE CONTRACTOR SHALL COOPERATE WITH ALL OTHER TRADES 50 THAT THE INSTALLATION OF ALL EQUIPMENT HAY BE PROPERLY COORDINATED, CONTRACTOR SHALL BRING TO THE ATTENTION OF THE CONSTRUCTION MANAGER ANY DISCOPLANCIES BETWEEN FIELD CONDITIONS AND DESIGN DOCUMENTS.
- D. ALL EQUIPMENT FUNISHED SHALL FIT THE SPACE AVAILABLE, WITH CONNECTIONS, ETC., IN THE REQUIRED LOCATIONS AND WITH A DEGILATE SPACE FOR OFFERTHING AND SERVICING. SHOULD A CONFLICT EXIST DETHEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE CONSTRUCTION MANAGER WHOSE DECISION SHALL BE FINAL, NO ALLOMANCE HILL BE MADE, SUBSEQUENTLY, IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR AFTER AHARD OF THE CONTRACT,
- E. ALL MECHANICAL EQUIPMENT SHALL CONFORM HITH THE REQUIREMENTS OF THE STATE MECHANICAL CODE, THE STATE BUILDING CODE, THE STATE ENERGY CODE, NFPA 90A, 96.101 AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- F. DRAMINGS FOR MECHANICAL WORK ARE DIAGRAMMATIC SHOWING THE GENERAL LOCATION, TYPE, LAYOUT AND EQUIPMENT REQUIRED. THE DRAMINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAI FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS AS REQUIRED, FURNISH AND INSTALL DUCTHORK, CONNECTION ACCESSORIES, OFFSETS AND MATERIALS NECESSARY TO FACILITATE THE SYSTEMS FUNCTIONING AS INDICATED BY THE DESIGN AND THE EQUIPMENT INDICATED. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ANY ASSOCIATED FEE
- 6. THE CONTRACTOR SHALL INSTALL ALL PIPINS, DUCTHORK, FIXTURES AND EQUIPMENT AS REQUIRED TO CONFORM THE STRUCTURE, AVOID 095 TRACTIONS, PRESERVE CELLING HEIGHTS AND HEADROOM AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR
- H. THE CONTRACTOR SHALL INSTALL MECHANICAL SYSTEMS AS SHOWN, NOTED AND SPECIFIED EQUIPMENT MAY NOT BE SUBSTITUTED UNLESS HRITTEN APPROVAL BY THE ENSINEER OR TENANTS REPRESENTATIVE IS OBTAINED. ANY LIMATINGRIZED CHANGES SHALL REPRESENTATIVE IS OBTAINED, ANY MANITHORIZED CHANGES SHAD BY REMOVED AT CONTRACTOR'S EXPENSE IF DEEDED NECESSARY BY ENGINEER OR TENANT'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED CHANGE TO RELATED WORK CAUSED BY THE SUBSTITUTION OF ANY ITEMS OF MATERIALS OR EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.

- HVAC UNTS (NEH)
 WERE EXISTING HVAC COMPONENTS ARE TO REMAIN FOR REUSE,
 CONTRACTOR SHALL MODIFY, SERVICE, ETC. PER PLANS, SCHEDULES, AND NOTES
- A. CONTRACTOR SHALL COORDINATE THE DELIVERY, RECEIVING STORAGE, RIGGING, HOISTING, INSTALLATION AND START UP OF HEATING AND COOLING UNITS INCLUDING ALL ACCESSORIES AS SCHEDULED AND AS INDICATED ON THE DRAWINGS.
- B. HVAC UNITS SHALL BE FURNISHED COMPLETE WITH CASING REPRIGERATION SYSTEM, HEATING SECTION (AS SCHEDULED ON DRAMINGS), FANS, MOTORS AND DRIVES, FILTERS, AUTOMATIC CONTROLS, AND OPTIONS AND ACCESSORIES AS SCHEDULED ON CONTROLS.

 HVAC UNITS SHALL BE FURNISHED WITH FACTORY INSTALLED AND TESTED COMPONENTS TO PROVIDE TWO STAGES OF COOLING, TWO STAGES OF HEATING (WHERE APPLICABLE), ANTI-RECYCLE TIMER, FIVE (5) MINUTE COMPRESSOR STAGING RELAY, AND OTHER ITEMS AS SCHEDULED ON DRAWINGS.

D. SEQUENCE OF OPERATION

- a. UNIT OUTDOOR AIR DAMPER SHALL OPEN TO ITS MINIMUM POSITION AND UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY.
- b. FOR UNITS CONNECTED TO THE CO2 SENSOR SYSTEM, UNIT OUTDOOR AIR DAMPER SHALL MODULATE FROM ITS MINIMAN SCHEDULED POSITION TO ITS MAXIMUM SCHEDULED POSITION II RESPONSE TO SPACE MOUNTED CO2 SENSOR (BY OTHERS) SET AT 800 PPM.
- C. UNIT HEATING SHALL ENGAGE CYCLING COMPRESSOR(S) HEATING (HEAT EXCHANGER, COMPRESSOR (HEAT PUMP), AND ELECTRIC HEAT AS EQUIPPED) AND SHALL STAGE TO MAINTAIN SPACE SETPOINT

2. UNOCCUPIED HOURS.

- a. UNIT OUTDOOR AIR DAMPER SHALL REMAIN CLOSED AND UNIT SUPPLY FAN SHALL CYCLE ON A SIGNAL FROM SPACE SENSOR
- UNIT HEATING SHALL ENGAGE CYCLING COMPRESSOR(S), HEATING (HEAT EXCHANGER, COMPRESSOR (HEAT PUMP), AND ELECTRIC HEAT AS EQUIPPED) AND SHALL STAGE TO MAINTAIN

HVAC UNITS (CONTINUED)

3. Unit economizer cycle (mere equipped) shall be initiated upon a signal from outdoor and return air temperature and enthalpy sensors. Outdoor air damper return air damper, and unit compressor(s) shall cycle to maintain space settooint. Economizer cycle shall over ride coz monitoring system.

4. SMOKE ALARM (WERE REQUIRED).

a. UNIT OUTDOOR AIR DAMPER SHALL CLOSE AND UNIT SUPPLY FAN SHALL STOP ON A SIGNAL FROM DUCT SMOKE DETECTOR, DUCT SMOKE DETECTOR SHALL SEND A SIGNAL TO REMOTE ALARM

GRILLES, REGISTERS AND DIFFUSERS

- A. THE CONTRACTOR SHALL PROVIDE GRILLES, REGISTERS AND DIFFUSERS WHERE INDICATED AND AS SCHEDULED ON THE DRAWINGS.
- B. GRILLES, REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH OPPOSED BLADE VOLUME DAMPERS AS SCHEDULED ON THE
- C. GRILLES, REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH FRAME TYPES TO MATCH THE SURFACE INTO WHICH THEY WILL BE INSTALLED.
- D. GRILLES, REGISTERS AND DIFFUSERS SHALL BE PROVIDED WITH FACTORY APPLIED WHITE FINISH.
- E. DESIGN IS BASED ON PRODUCTS MANUFACTURED BY TITUS, PRODUCTS OF EQUIVALENT PERFORMANCE, CONSTRUCTION AND APPEARANCE MAY BE SUPPLIED.

EXHAUST FANS

- A. THE CONTRACTOR SHALL PROVIDE EXHAUST FANS WHERE INDICATED AND AS SCHEDULED ON THE DRAWINGS.
- B. INLINE EXHAUST FANG SHALL BE FURNISHED MITH VIBRATION ISOLATING HANGARS AND ALL RELATED HARDWARE.
- C. ALL EXHAUST FANS SHALL BE FURNISHED WITH BACK DRAFT DAMPER, INSECT SCREEN MOTOR AND DRIVE, AND OPTIONS AND ACCESSORIES AS SCHEDULED ON DRAMINGS.

- A. ALL DUCTHORK SHALL BE CONSTRUCTED OF SALVANIZED STEEL SHEET METAL AND BE FABRICATED ACCORDING TO THE LATEST EDITION OF THE SHACKN HAVE DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTHORK.
- B. ALL ELBONG SHALL HAVE PROPER RADIUS OR CONTRACTOR SHALL PROVIDE TURNING VANES AS REQUIRED BY SMACNA DUCT CONSTRUCTION MANUAL.
- C. ALL DUCT CONNECTIONS TO EQUIPMENT SHALL BE LOADED TYPE VINYL, VIBRATION ELIMINATION CONNECTIONS, (FC) FLEXIBLE
- D. FLEX DUCT: PROVIDE FACTORY ASSEMBLED CLASS I AIR DUCT (UL . FLEX DUCT. PROVIDE FACTORY ASSEMBLED CLASG. I AIR DUCT (II. 10) HITH FIBERGLASS INSULATION AND REINFORCED CUTER PROTECTIVE COVERN/APOR BARRIER, FLEX DUCT SHALL MEET INFPA 90A HITH FLAME SPREAD UNDER 25, SHOKE DEVELOPED UNDER 50, AND SHALL BE RATED FOR IT MC, PRESENTE AND 07 DEVD ESCREE TEMPERATURE, MAXIMAM LENGTH SHALL BE 5'-0', MINIMAM CENTER LINE BEND RADIUS SHALL BE I I/2 DUCT DIAM-ETERS, VAPOR BARRIER SHALL BE SEALED AT EACH END AFTER CONNECTION TO DUCT AND AIR DEVICE.
- E. ALL NEM SUPPLY AND RETURN DUCTHORK SHALL BE INSULATED. NO EXCEPTIONS, INSULATE MITH EXTERNAL DUCT HRAP OR MITH 940P APPLIED DUCT LINER, DUCT HRAP 94ML, BE FOIL RETHOROGCED KRAFT FACING, ALL INSULATION SHALL MEET INFDA 40A PLANE SPREAD UNDER 25 AND SMOKE DEVELOPED UNDER 50. THICKNESS DENSITY AND "R" VALUE SHALL BE PER CODE, INSULATION SHALL BE FASTENED TO DUCTHORK PER MANUFACTURER'S INSTRUCTIONS AND SMACNA STANDAROS, ROUND BRANCH DUCTHORK SHALL BE NSWLATED WITH I' THICK FIBERGLASS SLEEVE WITH FOIL JACKET AND ALL JOINTS AND TERMINATIONS SEALED WITH FOIL DUCT TAPE

EXECUTION

- A. ALL DUCTHORK TRANSITIONS SHALL BE (FOT) "FLAT ON TOP" UNLESS OTHERWISE SPECIFIED ON PLAN ALL DUCT DIMENSIONS LISTED ARE INNER AIR STREAM DIMENSIONS.
- B. ALL DICTHORK SHALL BE ROUTED ABOVE THE SUSPENDED CEILING SPACE INLESS OTHERWISE NOTED ON THE PLANS, ALL DICTHORK SHALL BE SUSPENDED FROM TOP CHORD OF STRICKINE AND ACCORDING TO THE LATEST EDITION OF THE SHACKA HAVAC DICT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DICTHORK.
- C. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-O' AMAY FROM EXHAUST DISCHARGE OPENINGS AND PLUMBING VENT STACKS,
- D. PROVIDE UL APPROVED FIRE DAMPERS FOR ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS, CEILINGS, AND FLOORS, INSTALL FIRE DAMPERS AS PER MANUFACTURER'S DIRECTIONS AND
- E. PROVIDE ROUND SPIN-IN FITTINGS WITH LOCKING VOLUME DAMPER FOR EVERY INLET AND OUTLET ATTACHMENT TO THE MAIN TRANK DUCT WHETHER SHOWN ON THE PLANS OR NOT. PROVIDE ADDITIONAL LOCKING VOLUME DAMPERS AT ALL SECONDARY BRANCH TAKEOFFS FROM DUCTHORK MAINS AND AS INDICATED ON PLANS, PROVIDE MEDICAL MACESTAL MAINS AND AS INDICATED ON PLANS, PROVIDE MEDICAL MACESTAL MAINS AND AS INDICATED ON PLANS, PROVIDE INSPECTION ACCESS PANELS IN DUCTS AT ALL FIRE DAMPERS
- F. SUPPLY, RETURN AND POSITIVE PRESSURE EXHAUST DUCTHORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA SEAL CLASS "C".
- 6. CORE-DRILL OR SAM-CUT EXISTING WALLS ROOF FTC. AS REQUIRED. FOR PIPING OR DUCTHORK AND FIRE-510P OPENING AROUND PIPE OR DUCTHORK, VERIFY LOCATION OF STRUCTURAL BEAMS, JOSTS, ETC. BEFORE DRILLING OR CUTTING, NOTIFY ARCHITECT OF ANY
- H. MEREVER FOUNDATION MALLS, OUTSIDE MALLS, ROOFS, ETC. ARE OUT FOR INSTALLATION OF SYSTEMS, THEY SHALL BE PATCHED TO MATCH EXISTING CONSTRUCTION AND SHALED MEATHER TIGHT. MOR SHALL BE PERFORMED BY CRAFTSHEN SKILLED IN THEIR

EXECUTION (CONTINUED)

- PROVIDE 3 SETS OF PLEATED DISPOSABLE FILTERS, ONE SET TO BE USED WITH COMPLETION OF CONSTRUCTION PHASE, INSTALL ONE SET AT COMPLETION OF CONSTRUCTION PHASE AND DELIVER ONE SET TO OWNER AND LABEL EACH SET OF FILTERS TO DENOTE THEIR SECRET THE LINKS. LANSE.
- I PROVIDE THO OPERATION AND MAINTENANCE MANUALS BOUND IN 8-1/2' X II" PAGE BINDERS, TITLED "OPERATION AND MAINTENANCE MANUAL". SUBDIVIDE BINDER CONTENTS HITH PAGE DIVIDERS BY SYSTEM AND EQUIPMENT, INCLUDE ALL SHOP DRAININGS, AS-BUILT DRAININGS AND MARRANTIES, SUBMISSION OF THESE DOCUMENTS SHALL BE WITHIN 90 DAYS OF SYSTEM ACCEPTANCE, PER ENERGY CODE, AND A REQUIREMENT FOR FINAL PAYMENT.

TESTING, ADJUSTING, BALANCING AND INSPECTION

- A WORK SHALL BE PERFORMED AFTER THE COMPLETE INSTALLATION
 AND STARTUP OF ALL EQUIPMENT, DUCT SYSTEMS AND TEMPERATURE
 AND EMERGY MANAGEMENT CONTROLS AND COMPLETED PRIOR TO
 THE OFFICE FOR THE CHART OF SYSTEMS. TURNOVER FOR THE START OF STOCKING.
- B. CONTRACTOR SHALL SUBMIT TEST AND BALANCE REPORT TO GENERAL CONTRACTOR FOR SUBMITTAL TO TENANT'S PROJECT MANAGER AND LOCAL CODE AUTHORITY (IF REQUIRED).
- C. BALANCING OF AIR DEVICES SHALL BE ACCOMPLISHED BY ADJUSTING BRANCH TAKEOFF DAMPER AT MAIN TRAIK 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 AIR DEVICE.
- D. INTERE EXISTING DUCT IS TO BE REUSED, CONTRACTOR SHALL PROVIDE AND INSTALL NEW MANUAL DIAMPERS WITH LOCKING GUADARNI IN THE RIMOUT DUCT AT THE CONNECTION TO THE TRANK DUCT AS REQUIRED FOR THE CONFLETION OF BALINCING.
- E. TESTING AND BALANCING CONTRACTOR SHALL ALSO INSPECT THE COMPLETED AND OPERATIONAL HVAC EQUIPMENT, DUCT SYSTEMS AND TEMPERATURE AND ENERGY MANAGEMENT CONTROLS PRIOR TO TURNOVER OF THE STORE FOR THE START OF STOCKING, TESTING AND BALANCING CONTRACTOR SHALL SUBMIT THE COMPLETED TENANT'S HVAC FIELD INSPECTION REPORT TO THE GENERA CONTRACTOR FOR SUBMITTAL TO TENANT'S PROJECT MANAGER FOR

FIRE AND SMOKE PARTITION PENETRATIONS (WHERE REQUIRED)

A THE CONTRACTOR SHALL FAMILIARIZE HINFELE HAT ALL FIRE RATED CONSTRUCTION AND INSTALL HIS HORK SO AS TO HAINTAIN THE INTERCITY OF THE FIRE CODE RATHIS, HAINTAIN RATHING OF FIRE RATED AND SHOKE RATED CORSTRUCTION. SLEEVES SHALL BE STEEL OR REZ-HAINFACHNEED SLEEVES SHALLAR TO PIFE SHELDS, INC. FOR DAZE PIFE THROUGH FIRE WALLS AND PLOCKS, MODEL HEB, DEB DAZE PIFE THROUGH FIRE WALLS AND PLOCKS, MODEL HIS, THICK CALCUM SLICATE INSLITATION ENCASED IN METAL SLEEVE EXTENSION TWO FIET ETHER SIDE OF FIRE RATED HALLS OR FLOOR, SEAL ANNUAR SPACE AROUND CONDITIS, FOR FIRE AND SMOKE RATED FLOORS, HALLS AND PARTITIONS, USE IL LISTED MATERIAL THAT MAINTAIN FIRE RATED HALL AND PLOOR INTEGRITY, SHILLAR TO RIV FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIV FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIV FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIV FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIV FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIV FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIVE FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIVE FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIVE FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIVE FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIVE FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO RIVE FOAM, DON'T CORNING TIRE STOP OR PIFE SHILLAR TO ROW'T CORNING TIRE STOP OR PIFE SHILLAR TO ROW CORNING TIRE STOP OR PIFE SHILLAR TO THE PIFE TO ROW CORNING TIRE STOP OR PIFE SHILLAR TO THE PIFE TO THE P

GENERAL PLUMBING CONDITIONS

A SCOPE

- PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO COMPLETE THE HORK, INCLUDING INSTALLATION OF PLUMBING PIPING AND FIXTURES, ALL MATERIALS SHALL BE EH AND BE INSTALLED IN A HORKMANLIKE HANNER IN ACCORDANCE WITH THE DRAHINGS AND SPECIFICATIONS
- 2. PROVIDE EXCAVATION AND BACK FILL OF ALL TRENCHES INCIDENTAL TO THE PLUMBING MORK AS SHOWN ON THE DRAHINGS, BACK FILL SHALL COMPACTED TO 90%.
- 3. PROVIDE ALL BACKING, SUPPORTS AND CARRIERS FOR FIXTURES.
- 4. PROVIDE ALL CUTTING AND PATCHING OF THE CONSTRUCTION HORK, ROUGH FINISH AND TRIM, WHICH MAY BE REQUIRED FOR THE INSTALLATION OF EQUIPMENT, ALL PATCHING SHALL MATCH ALL
- 5. CONTRACTOR SHALL MAKE ALL PLUMBING AND PIPING CONNECTIONS TO EQUIPMENT SPECIFIED TO BE FURNISHED BY TENANT OR INDER OTHER SECTIONS OF THE SPECIFICATIONS INCLUDING FINAL CONNECTIONS TO AIR CONDITIONING AND MEANING ENTER
- CONTRACTOR SHALL PROVIDE SUFFICIENT APPROVED HATER HAMMER ARRESTORS (HADE "SHOKSTOP", OR EQUIVALENT) TO PREVENT HATER HAMMER.
- CONTRACTOR SHALL THOROUGHLY CLEAN ALL FIXTURES, EQUIPMENT AND PIPING AFTER INSTALLATION.
- 8. CUNTRACTOR SHALL PROVIDE APPROVED ACCESS DOORS IN FRAMED HOLES FOR ALL VALVES, TRAPS WHICH MUST BE INSTALLED IN INACCESSIBLE LOCATIONS.
- CONTRACTOR SHALL PROVIDE CUTOUT DATA FOR ALL SINKS AND LAVATORIES TO ALL OTHER RELATED TRADES.
- IO. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, INSPECTIONS AND CRITIFICATES IN CONNECTION WITH THE HIS MORK AND MAKE ALL ARRAMSPENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND PAY ALL FEES, CHARGES PERMITS AND METER CHARGES.

MATERIALS

- I. SERVICE WEIGHT, CAST IRON HUB AND SPIGOT PIPE AND FITTINGS WITH NEOPRENE GASKET JOINTS, NO HUB SERVICE WEIGHT PIPE AND FITTINGS MAY BE USED ABOVE GRADE WIEN PERMITTED BY LOCAL CODE.
- 2. SCHEDULE 40, GALVANIZED STEEL PIPE AND BANDED MALLEABLE
- SCHEDULE 40 AND 80 PVC OR ABS PIPING WITH DWY PATTERN FITTINGS MAY BE USED WHERE ALLOWED BY LOCAL CODE. FOAM CORE PVC PIPING WILL NOT BE APPROVED. NO PVC SHALL BE INSTALLED IN RETURN AIR PLENUMS.

B. HOT AND COLD WATER

- I. ABOVE GRADE.
- a. TYPE 'L' COPPER TUBING, HARD TEMPER, COLD DRAWN HITH HRAUGHT COPPER LEAD FREE SHEAT FITTINGS, CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE WITH \$5% RED BRASS IPS SIZE PIPE OR COMPRESSION ANGLE STOPS. PROVIDE DIELECTRIC UNIONS WHERE CONNECTING PIPING OF DISSIMILAR MATERIALS.
- b. PVC FOR COLD HATER AND CPVC FOR HOT WATER MAY BE SUBSTITUTED FOR COPPER PIPING WHERE ALLOHED BY LOCAL CODE AUTHORITY FOR ABOVE GRADE WATER PIPING ONLY.
- C. PEX PIPING FOR HOT AND COLD MATER MAY BE SUBSTITUTED MERE ALLONED BY LOCAL CODE AUTHORITY. CONNECTION AT MATER HEATERS MAST BE TYPE "L' COPPER PIPING. CONTRACTOR IS RESPONSIBLE FOR CORRECTLY SIZING AND INSTALLING ALL PEX PIPING FER MANAFACTURES REQUIREMENTS.

- a. TYPE 'K' COPPER TUBING, HARD OR SOFT TEMPER, HITH HOUGHT COPPER LEAD FREE SHEAT FITTINGS, NOTE: NO FITTINGS SHALL BE PERMITTED BELOW GRADE INSIDE BUILDING.
- c. PEX PIPING MAY BE SUBSTITUTED INFERE ALLOWED BY LOCAL CODE AUTHORITY. CONTRACTOR IS RESPONSIBLE FOR CORRECTLY SQUAR AND INSTALLING ALL PEX PIPING PER MANUFACTURE'S REQUIREMENTS.

C. AIR CONDITIONING CONDENSATE

- I. TYPE "M" COPPER TUBING, HARD TEMPER, COLD DRAWN WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS.
- PVC PIPING MAY BE SUBSTITUTED FOR AIR CONDITIONING CONDENSATE PIPING ABOVE ROOF ONLY WHERE ALLOWED BY LOCAL CODE AUTHORITY, ALL AIR CONDITIONING CONDENSATE PIPING SHALL BE OF THE SAME MATERIAL.

D. NATURAL GAS PIPING

SCHEDULE 40 BLACK IRON PIPE WITH ISO LB. BLACK MALLEABLE THREADED OR SOCKET HELDED FITTINGS.

EXECUTION

A. GENERAL REQUIREMENTS

- I. CONTRACTOR SHALL EXAMINE THE PREMISES AND SATISFY HIMSELF OF EXISTING CONDITIONS INDER HAICH HE HILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE WORK THAT IN ANY MANNER AFFECT THE MORK WIDER THE CONTRACT. THE CONTRACTOR SHALL COOPERATE WITH OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERL
- ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE, HITH CONNECTION, ETC. IN THE REQUIRED LOCATIONS AND HITH ADEQUATE SPACE FOR OPERATION AND SERVICE.
- 3. ALL PIPINS, EXCEPT FIXTURE SUPPLIES, SHALL BE CONCEALED, CUT ACCURATELY TO EXACT MEASUREMENTS TAKEN AT THE BILLDING AND MORKED CAREFULLY INTO PLACE HITHOUT FORCING OR SPRINGING CHANGES IN DIRECTION of ALL PIPING SHALL BE MADE HITH FITTINGS, CHANGES IN PIPE SIZE SHALL BE MADE HITH FEDURING EXTRINGS.
- NO MATER OR DRAIN LINES SHALL BE PERMITTED OVER ELECTRICAL OR TELECOMMUNICATION PANELS OR IN TELECOMMUNICATION ROOMS.
- 5. PROVIDE PROTECTIVE METAL COVER PLATES OVER STUDS AND JOISTS WHERE PIPES PENETRATE CLOSE TO EDGE OF STUD OR
- PROVIDE CHROME PLATED ESCUTCHEONS WHERE PIPES PASS THROUGH FLOORS, WALLS AND CEILINGS IN FINISHED SPACES.
- ALL PIPING SHALL BE INSTALLED WITH ADEQUATE PROVISION FOR EXPANSION AND CONTRACTION USING SHING JOINTS, PIPE CLAMPS, ANCHORS AND EXPANSION JOINTS. FITTINGS SHALL BE SO SPACED THAT THEY WILL NOT INTERFERE WITH SLIDING OF PIPE
- 8, ALL OPENINGS IN THE ROOF SHALL BE FLASHED MATERTIGHT PER THE INSTRUCTION OF THE LANDLORD'S ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.

B. DRAIN WASTE AND VENT

- ALL MASTE PIPING SHALL BE PITCHED A MINIMUM OF 1/4* PER FOOT IMERE POSSIBLE. PIPING GREATER THAN 4* DIAMETER MAY BE PITCHED AT I/0* PER FOOT, ONLY IMERE REQUIRED BY EXISTING CONDITIONS, DUBLECT TO THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION.
- DRAINS AND P-TRAPS: IT GA, C.P. BRASS HIERE EXPOSED TO VIEW EXTENDING TO MALL, NOMINAL SIZE OF DRAIN AND TRAP SHALL NOT BE SMALLER THAN THE FIXTURE CUTLET TO MHICH IT IS ATTACHED.
- 3. VENTS SHALL EXTEND NOT LESS THAN 12' THROUGH ROOF, THEY SHALL BE GATHERED TOGETHER HHERE POSSIBLE INTO ONE VENT OF EQUIVALENT AREA, VENTS SHALL BE FLASHED AS INDICATED ON THE DRAWNES, ALL VENTS SHALL BE A MINIMUM OF 10'-0' FROM ANY FRESH AIR INTAKES, OR GREATER IF REQUIRED BY LOCAL CODE.
- 4. CLEANOUTS, SAME SIZE AS PIPE, SHALL BE INSTALLED IN SOIL AND WASTE LINES AT EVERY CHANGE OF DIRECTION AND AT EVERY 100 FEET OF RUN WHETHER SHOWN ON THE DRAWINGS OR NOT: AND SHALL BE ACCESSIBLE IN ALL CASES, WHEN OCCURRING IN FINISHED HALL OR FLOOR, SET FLUSH WITH SURROUNDING

EXECUTION (CONTINUED)

5. CLEANOUTS AS A MINIMUM SHALL BE LOCATED SO THAT ALL SOIL AND HASTE LINES WITHIN OR INDER BUILDING ARE ACCESSIBLE FOR CLEANING WITHOUT PASSING THROUGH MORE THAN ONE NINETY DEGREE OR THO FORTY FIVE DEGREE BENDS, CLEANOUT COVERS SHALL BE SET FLUSH WITH FLOORS AND GRADE WITH EXPOSED PLASTIC NUT AT WALLS.

C. HOT AND COLD HATER

- ALL MATER PIPING SHALL BE PITCHED IN DIRECTION OF FLOM TO ALLOW FOR SYSTEM DRAINING. INSTALL PIPING PARALLEL TO MAJOR BUILDING ELEMENTS.
- 2. INSTALL WATER PRESSURE REGULATOR, "WATTS" OR "WILKINS", WHERE AVAILABLE UTILITY PRESSURE EXCEEDS 80 PSI.
- 3. INSTALL HATER MAIN SHITOFF VALVES (MATTS, OR APPROVED EQUAL FULL PORT BALL VALVE), UPSTREAM OF PRESSURE REGULATOR
- 4. INSTALL ACCESSIBLE HOT AND COLD WATER STOPS AT ALL
- INSTALL DIELECTRIC ISOLATORS WHERE INCOMPATIBLE PIPING MATERIALS COME IN CONTACT.
- INSTALL TEMPERATURE AND PRESSURE RELIEF VALVES AS REQUIRED BY CODE.

D. NATURAL GAS

- INSTALL NATURAL GAS PIPING AS INDICATED ON DRAWINGS AND AS REQUIRED BY LOCAL CODES.
- 2. INSTALL SHUTOFF VALVES CLOSE TO FIXTURE AND APPLIANCE CONNECTIONS, AND ANEAD OF UNION AND DIRT LEG AT ROOFTOP
- UNIONS SHALL BE INSTALLED ON BOTH SIDES OF ALL EQUIPMENT.
 AND WHERE REGURED TO FACILITATE REMOVAL OF EQUIPMENT.
- 4, PROVIDE GAS PRESSURE REGULATING VALVES WITH TURNED DOWN VENTS AT ALL GAS APPLIANCES WHEN DISTRIBUTION PRESSURE IS GREATER THAN 1" M.C.
- 5. PROVIDE GAS MAIN SHITOFF VALVE WITH LEVER TYPE HANDLE PLACED ON ON HOUSE SIDE OF METER.
- 6. PAINT ALL EXTERIOR PIPING INCLUDING PIPING INSTALLED ON ROOF WITH THO COATS OR RUST INHIBITING EXTERIOR PAINT. SUPPORT PIPING ON ROOF PER INSTRUCTION OF LANDLORD'S ROOFING CONTRACTOR TO MAINTAIN ROOF WARRANTY.

- I. ALL HATER PIPING, HORIZONTAL AND VERTICAL SHALL BE INSULATED HITH FIBERGLASS PIPE INSULATION HITH AN ALL PARPOSE VAPOR BARRIER JACKET. USE MINIMAM I' INSULATION ON MATER PIPING, ALL INSULATING MATERIALS SHALL HAVE A MAXIMUM 25 FLAME SPREAD RATING AND 50 SHOKE DEVELOPED PATING.
- APPROVED INCULATION BLOCKING SHALL BE PLACED BETWEEN SHEET METAL JACKET AND BOTTOM OF THE PIPE MERRE JACKET ALONE CAMOUT PREVENT CRUSHING, INSULATION JACKET OR VAPOR BARRIER SHALL BE SEALED AFTER INSTALLING BLOCKING (SEE HANGERS, SUPPORTS AND SLEEVES).

F. HANGERS, SUPPORTS AND SLEEVES

- ALL DRAIN, HASTE, HOT AND COLD WATER, AND NATURAL GAS PIPING EXPOSED, ABOVE GRADE AND IN FURRED AREAS, SHALL BE SUPPORTED IN PLACE WITH SECURELY FASTENED SOLID PIPE HANGERS NOT OVER B'-O' APART AND AT EACH CHANGE IN DIRECTION (5'-O" ON CAST IRON PIPE).
- PIPE HANGERS SHALL BE INSTALLED AROUND THE OUTSIDE OF NEWLATION WITH VAPOR BARRIERS, AND INSULATION SHALL BE PROTECTED AGAINST CRUSHING BY SHEET METAL JACKET OF PROPER AREA AND HEIGHT.
- 3. ALL MATER PIPING RUNNING THROUGH FLOORS OR WALLS SHALL BE ISOLATED FROM THE PENETRATION WITH A SLEEVE. MAINTAIN THE FIRE RATING OF ALL MALL AND FLOOR PENETRATIONS BY USE OF APPROVED FIRE STOP MATERIALS.
- 4. SLEEVES THROUGH WALLS SHALL BE CUT SO AS TO BE FLUSH WITH THE FINISHED SURFACE OF THE WALL IN EACH CASE AND SHALL BE MADE HATERTIGHT.

- I. DRAIN, WASTE AND VENT LINES SHALL PASS INSPECTION UNDER HEAD OF WATER BY SYSTEM WITH WATER TO TOP OF HIGHEST
- 2. HATER LINES SHALL PASS INSPECTION OF FOUR (4) HOURS UNDER 150 PSI PRESSURE. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PRIPOSES, IT SHALL BE DISINFECTED BY SLONLY FILLING HITH HATER TO MHICH A DISINFECTING AGENT HAS BEEN INJECTED AT A RATE OF 50 P.PM. OF CHLORIE, MHICH SHOULD BE ALLOWED TO STAND IN THE PIRING FOR AT LEAST 24 HOURS, AFTER MHICH TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT AFTER MIGHT TESTS FOR RESIDUAL CALORINE SHALL SHOWN NOT LEGS THAN FIVE (S) P.P.M. OR RESIDUAL CALORINE AT EVERY HATER CUILET IN THE BULDING, IF THE RESIDUAL IS LESS THAN FIVE PPM, THE DISINFECTION SHALL BE REPEATED UNTIL THE REGUIRED RESIDUAL IS COSTAINED AT EVERY CUILET, AFTER REGUIRED RESIDUAL IS COSTAINED AT EVERY CUILET, THE SYSTEM SHALL BE FLUSHED UNTIL THE CHACKINE LEVEL AT EVERY CUILET IS REDUCED TO THAT OF INCOMING WATER SUPPLY
- 3. GAS LINES SHALL STAND A PRESSURE OF 25 PSI FOR A PERIOD OF 15 MINUTES WITHOUT PERCEPTIBLE DROP.
- . ALL TESTING SHALL BE PERFORMED BY CONTRACTOR AT HIS OWN EXPENSE.

ALL MATERIALS FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW AND FREE FROM ALL DEFECTS IN MATERIALS AND WORKMASHIP AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE BY



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(PE) [[[]] ORE, FD# 799732 ®szc & FAMILY DOLLAR HEKNOW TAVERY, SC.

MP-3

POWE	RAWIRING INFORMATION	FOR (COOLER/FREE	ZER EQL	JIPMENT
DEVICE.	DIBCONNECT BIZE	COND	UITAURE BIZE	FEEDER PANEL	FEEDER BREAKERYS)
(c1)	ANCTION BOX . LOS AFF WAS WHIP	N3.	(3772 4 (1772 GND.##	L.P	2,4
⟨ <i>a</i> ⟩	ANCTION BOX . ISS AFF WAS WHIP	1/3-	(37/2 4 (17/2 GND.**	LP.	6.8
(c)	TWCTION BOX . IND. WILL MAD. WILL	1/2*	(379 4 (179 GND,**	L#	מפש
(G4)	JUNCTION BOX ● 100" AFF W/10" WHIP	1/2*	(3792 4 (1792 GND.**	LP	14,16
(cs)	JANCTION BOX + 100" AFF W/6" WHIP	1/3.	(2792 + (1792 GND.	LP	31
(FI)	JUNCTION BOX . 100" AFF W/6" WHIP	3/4*	(376 I (1710 GND.**	LP	10,20
(F2)	ANCTION BOX . 100" AFF WID WHIP	3/4*	(376 ± (176 GND.**	LP.	22,24
(F3)	JUNCTION SOX . 100" AFF WIG WHIP	3/4*	(376 + (1710 GND. 44	LP	76,28
(F4)	JUNCTION BOX . 100" AFF WIND WHIP	3/4"	(3790 + (1790 GND).**	LP	33,35

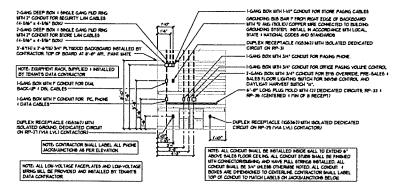
NOTE: ALL DIPENSIONS ARE TO THE 10P OF THE ASSOCIATED DEVICE. AS PART OF THIS PROJECT, THE MANAGEMENTS REPRESENTATIVE UILL MAKE THE FINAL CONNECTION TO INTEGRAL EQUIPMENT DISCONNECTS AT TIME OF STARTUP.

3R-HP 4R-HP

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The Sea

	POWER/WIRING INFO	RMATION	FOR HVAC E	EQUIPMENT	
HVAC*	DISCONECT SIZE	cono	UITAINE BIZE	FEEDER PANEL	PEEDER DREAKERYS)
XAC-I	EXISTING TO REMAIN	E×	EXISTING	LP	1,9,1
XAC-7	EXISTING TO REMAIN	E×	EXISTING	LP	13,5,77
XAC-3	EXISTING TO REMAIN	Ex	EXISTING	LP	15,21,25
XAC-4	EXISTING TO REMAIN	E×	EXISTING	LP	25,77,2%



OFFICE ELEVATION - ELECTRICAL & DATA

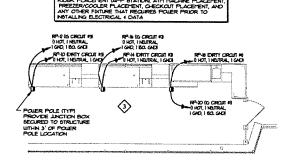
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&...

METER, CT CABINET, 4

KAC 1

SEE OFFICE ELEVATION ON THIS BHEET FOR OFFICE POLER REQUIREMENTS

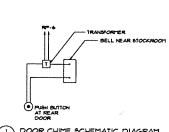


2 TYPICAL CHECKOUT STATIONS POWER/DATA DETAIL E-1) SCALE: NONE

CHECKOUT STATIONS POWER/DATA NOTES:

- DIP POUR POLES ARE BENG PURNISHED WITH CHECKOUT CONTIERS.
 POUR POLES GHALL BE INSTALLED AND WEED BY CONTRACTOR.
 PIELD VERBY LOCATION OF ALL POUR POLES AND JUNCTION BOXES
 WITH PROPERTY TO ANALER AND TOS THALL SITE SPECIFIC PROPERTY
 LOCATED WITHIN 3' OF POLES POLES.
 LABEL ALL JUNCTION BOXES WITH CIRCUIT NUTDER AND DESCRIPTION
 AS SHOUN IN PAVEL CHICPLOT.
 ALL DIRTY AND ISOLATED GROUND (IK) CIRCUITS SHALL HAVE
 POPULATED WITHINGLE. DO NOT DIMBER WITHINGS.





DOOR CHIME SCHEMATIC DIAGRAM
E-1 SCALE, NONE

- EXISTING UP/GFCI RECEPTACLE AT HVAC UNIT ON CIRCUIT RP-5.
- DEDICATED 170V, 10A, GF), WEATHERPROOF EXTERIOR RECEPTACLE RECESSED IN WALL WITH FACE FLUSH WITH EXTERIOR WALL.
- PROVIDE THREE (3) DEDICATED ISSUED, CIRCUITS AND THREE (3) DIRTY CIRCUITS FOR TRUINE CASH STATIONS, CIRCUITS WALL BE TERMINATED TO JACTION BOXES SELECTED TO STRUCTURE CONFIRM LOCATION OF ANCTION BOXES WITH FO SITE SPECIFIC FIXTURE PLAN PRIOR TO BECANNING CONSTRUCTION POLES POLES ARE PROVIDED WITH DEPOCATION BOXES WITH CIRCUIT PROVIDED WITH DEPOCATION BOXES HALL DE LOCATED WITHIN 3' OF POWER POLE LOCATIONS. LAPEL ALL JACTION BOXES WITH CIRCUIT PROPER AND EXCITED WITHIN ALL DIRTY AND BOX ARED GROWN (60) CIRCUITS SHALL HAVE DEDICATED REPORTED.

- 7. HC CABLE 18 ALLOWED AS BUILDING STANDARD WHERE LOCAL CODE JURISDICTION WILL ALLOW, ALL HC CABLE SHALL BE RIN OVERHEAD, AND IN A REAT AND ORSANIZED FASHION, WHERE CODE DOES NOT ALLOW HC CABLE, ETT SHALL BE USED, ALL EXPOSED CABLE AND COPOUT SHALL BE RIN TIGHT TO CEILING CONSTRUCTION AND CONCELLED FROM YELL WHEREVER PROSBILE.

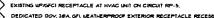
- NOT USED
- CONTRACTOR SHALL PROVIDE?" EMPTY CONDUIT, SCHEDULE 40 PVC, WITH NYLON PALLWRE FOR WANDATA SERVICE (CABLE, DB. OR 11). CONTRACTOR SHALL ROUTE DATA CONDUIT TO DATA PEDESTAL, PROPERTY LINE, OR PORTI AS COORDINATED WITH LOCAL DATA PROVIDER. CONTACT PATRILY DOLLAR FOR DATA SERVICE PROVIDER, THAT WILL BE UTILIZED.
- (2) TERMINATE ENDS OF TELEPHONE AND DATA CONDUITS WITHIN 6" TO THE LEFT OF COTTANICATION BOARD AT 30" APT, DO NOT INSTALL CONDUIT EXPOSED ON FACE OF EXISTING WALL BEST DETAIL 3."

- PURNISH AND NOTALL CONDUIT AND WERMS FOR EXTERIOR BUILDING SIGNS. CIRCUIT SHALL BE TERMINATED AT A JANCTION BOXYESI LOCATED PINITUM SIGNS. CIRCUIT SHALL BE CIRCUITED VIA ENERGY FLANAGERENT STSTEIL PROMIDE SIGN CIRCUIT SHALL SO FOR SELECTRICAL PRESS. COORDINATE ACTUAL NATURE AND FOR SELECT PROMISE FROM ELD SHAME SHALL COORDINATE RECURSED AND FOR PROMISE TO SHAME SHAME SHAME COORDINATE RECURSED AND THE PROMISE TO SHAME SHAME

ELECTRICAL POWER SYMBOL LEGEND

- ARROWEAD INDICATES HOMERUN TO PANEL NOTED
- JUNCTION BOX WALL OR CEILING HOUNTED.
- SNGLE POLE, DOV. 20A MOTOR RATED TOGGLE BUTCH.
- DUPLEX RECEPTACLE, 10 APP, 10 VOLT, 10" AFF, TO CENTER UNLESS OTHERWISE SPECIFIED. YET NO CATES GROUND FAULT CIRCUIT INTERRUPTER TYPE. "UP" INDICATES URE ATREPROCOU UNIT YHINGET COVER. "UN MOICATES BOOD UNDOOL, INSTALL UITHIN 10" OF TOP OF WINDOOL. "US" INDICATES INDICATED GROUND RECEPTACLE WITH ISOLATED GROUND URE AND EDOCATED NEUTRAL, MADRILL 16"-5359"
- GLADRUPLEX RECEPTACLE, AS ABOVE, IS AFF. TO CENTER UNLESS OTHERUSE SPECIFIED
- UEATHERPROOF PUSH BUTTON FOR DOORDELL STSTEM MOUNTED 46* AFG. TO CENTER EDWARDS MODEL 16196-W WITH EDWARDS MODEL 141-1 MOUNTING PLATE.
- DOOR CHIME FOR DOORDELL SYSTEM MOUNTED ABOVE CEILING. CONNECT TO DOOR CHIME TRANSFORMER. EDWARDS MODEL 1938-GS (74VAC, 12VA)
- TELEPHONE CUTLET, BY AFF, TO CENTER OR AT HEIGHT INDICATED ON PLANS, PROVIDE SPIGLE GAINS DATA BOX UITH 8" CONDUIT UITH PILL STRING TO 6" ABOVE LAT-IN CELLING, OR TO 0" "AFF, IN AREAS UITH NO CELLING, CATIBE CABLING AND CONSPILLET SHALL BE INSTALLED BY FID'S LOW VOLTAGE CONTRACTOR AT TIME OF INTIME TEMANT UPFIT.
- DATA OUTLET, 18° AFF, TO CEMER OR AT HEIGHT NOIGATED ON PLANS. PROVIDE BINGLE GANG DATA BOX WITH "* CONDUIT WITH PALL STRING TO 6" ABOVE LAT-IN CEILING OR TO D AFF, IN AREAS WITH NO CEILING. CATE CABLING AND CO-SORY, ATE SHALL BE INSTALLED BY FD'S LOW YOLTAGE CONTRACTOR AT TIPE OF RUTINE TENANT WEFT.
- GENERAL DUTY PUBILEACH-PUBILE DISCONNECT BUTCH, NUTBERG NOICATE FRAME SIZE, NUTBER OF POLES AND PUBILS. PROVIDE NETA I ENCLOSURE INSIDE, PROVIDE NETA I ENCLOSURE FOR ALL BUTCHES LOCATED OUTSIDE. "FPN" NOICATES FISE PER EQUIPMENT NAMERAL "NO" NOICATES NOICATES NOICES NOT TREE.
- ELECTRICAL PANEL. SEE SCHEDULE FOR DETAILS.
- ELECTRIC UTILITY METER LOCATION
- EXTERIOR LED LIGHT FIXTURE
- DUCT HOUNTED SHOKE DETECTOR
- DUCT SMOKE DETECTOR REMOTE TEST STATION MOUNTED AT CONTINUATION BOARD. SEE
 DETAIL VEAD FOR EXACT LOCATION, COORDINATE INSTALLATION RESPONSIBILITIES WITH
 ALL CONTRACTORS, SEE WIRRING DIAGRAM 34-2 FORD DETAILS.
- WATER HEATER PROVIDE DISCONNECTING MEANS AS REQUIRED.





- DERRY MANAGERNI BYSTEM EMIL CONTRACTOR SHALL REFER TO EMS SEETS FOR NOTALLING TRIANS SUPPLED ENERGY MANAGEMENT STYLEM SUPPLED ENERGY MANAGEMENT STYLEM SUPPLED ENERGY MANAGEMENT STYLEM SUPPLED ENERGY MANAGEMENT STYLEM SUPPLED SEETS OF SECTION STATEMENT.
- PROVICE SHIGLE GAMS LINCTION BOX HOLITED HEXT TO RECEIVING DOOR FOR PAGING PHONE. EC SHIGLL HOURT JECTION BOX IN WALL AT 49" AFF WITH 344" CONDUIT WITH PALL STRING UP IN WALL TO B"-0" AFF. PAGING SYSTEM SHALL BE VENDOR WIPPLED AND VENDOR NETALLED.
- ALL PANELBOARDS SHALL HAVE FIELD-APPLIED HAZARD MARKINGS INSTALLED PER 78M NEC 18031 (B).
- THE GUAD RECEPTACLE SHOUN IS ACTUALLY PLADE UP OF THE DUPLEX RECEPTACLES UITH THE TIME DIRECUTS SHOUN MOUNT RECEPTACLE AT 19" AFF. COORDINATE LOCATION WITH PRIVILE PLAN.
- WITH MINIMER PLAN
 THE PROPERTY OF STATE OF THE PROPERTY OF THE PROP

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RRMM ARCHITECTS, PC



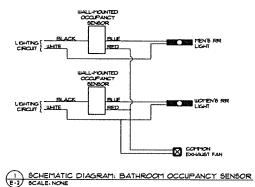


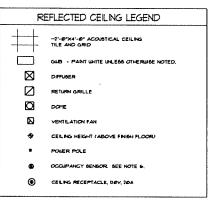
EXALING (DE) (IVA) FAMILY DOLLAR STORE, FD# 789732 HOCKIT TAVEN, SC

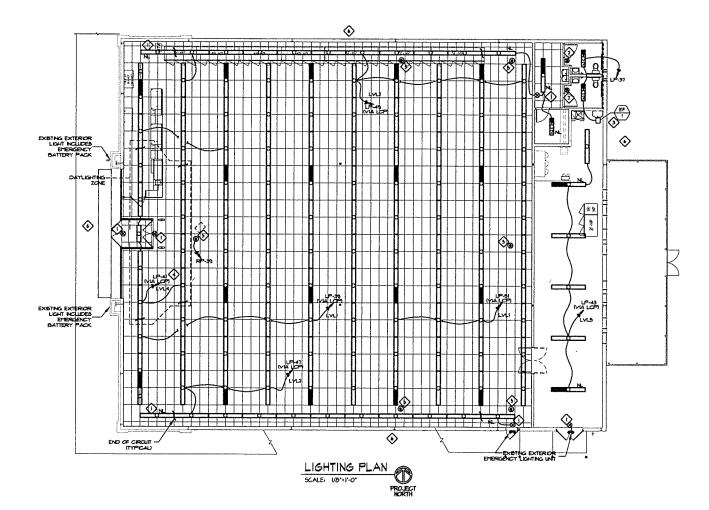
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^{**} INCLUDES: (2) HOT, (I) NEUTRAL, 4 (I) GROUND







LIGHT FIXTURE SCHEDULE VOLTS WATTS LAMP QTY, LAMPS LL OVER EXTERIOR EMERGENCY LIGHT WITH • (EXTERIOR) DOOM EMERGENCY LIGHT (:NTERIOR) **63** (2) 1 WATI LED SURFACE EMERGENCY LIGHT UNI E.D. SINGLE-FACE EXIT SI 8 W/FMFRGENCY BATTER NOTES: D BY CODE NOTES: A, C, D, F, G MERGENCY LIGHT WIT 8'-0" STRIP UGHT (EMERGENCY LIGHT) FURNISHED WITH FIXTURE (2) 16W LED CEILING SURFACE INTEGRAL BATTERY PACE HOTES: 4, C, D, F, F, G ___ EUHNISHED WITH FIXTURE NOTES: A. C. O. F. G #-OT STRIP LIGHT (EMERGENCY LIGHT) SEE ELEC. PANEL

- SIGHT PREVIOUS CHROLE HORS:

 A PENEMATED PATURE SHALL HAVE LID LAMPS.

 A CUT INSULATION, WHEN BATT TIPE IS USED, OR PROVIDE SHIFLD

 A MINIMUM OF 2" AWAY ROCHINGTOR.

 A MINIMUM OF 2" AWAY ROCHINGTOR.

 - C. ATTACH PIXTURE TO 1-BAR PER NEC 410-36.

 2. PIXTURE PROVIDED WITH BUILD VOLTAGE TOWARTS OFPLY, VERIFY VOLTAGE FOR EMERGENCY FIXTURE WITH BUILT IN BATTERY BACK-UP.

 - EVERTIFICATION OF WITH BULLI'N BUT THE BALKEUP.

 UCHT TIKTURES DENOTED BY TRU "SHALLREMAIN ON DUMNING NOTH-BUSINESS WORKING HOURS.

 WITH HOT PRINSHED CHUNG, LUGHT TIKTURES ABOVE THE SALES FLOOR SHALL BE SUDPENDED @ 12°0" A.F.F.

 THE STOCKHOOM SHALL BE SUSPENDED @ 10°0" A.F.F.
 - 4. FUR EXISTING FIXTURES THAT ARE TO REMAIN, THE CONTRACTOR SHALL REPLACE ALL ET THE CONTRACTOR.

CONTRACTOR SHALL NOTIONAL WIRE TE SUPPORTS FROM THE CILING GRID TO THE STRUCTURE ABOVE FOR SUPPORT OF THE LIGHT PROTURES CLIPPED ON THE GRID. PROVIDE DEDICATED NEUTRAL FOR EACH LIGHTING CIRCLET.

LIGHTING PLAN NOTES:

- 41. EXT SKAS, NIGHT LIGHTS, AND EXTERIOR EYERGENCY LIGHTS SHALL BE CROUTED TO PANEL 'LP", CROUT 45. WRING NOT BHOWN FOR DRAWING CLARITY.
- TOLET ROOMS SHALL HAVE COCUPANCY SENSORS INSTALLED AND CONNECTED AS SHOUN IN DETAL 19.
 SO-STRATE DIAGRAM, THIS SHEET, MOUNT ON MULL NEXT TO DOOM RISES RESTROOM LIGHTS AND OCCUPANCY SENSORS TO BE WERED INSPERSORATED OF THE SHERRY THANACEPENT SYSTEM VIA CROUNT UP-317.
- 3 TOILET ROOM EXHAUST SYSTEM TO CONNECT TO OCCUPANCY SENSORS FER THE SCHEMATIC DIAGRAM ON THIS SHEET COORDINATE EXHAUST FAN LOCATION BITH MECHANICAL
- THE LIGHT FIXTURES WITHIN THE DESIGNATED DAYLIGHTING ZONE IN FIRST TWO ROLD WILL BE PROVIDED WITH ROPERNOENT CONTROL FOR DAY-LIGHTING FER IECC. THESE CIRCUITS SHALL BE ROUTED THROUGH THE LCP FOR DAY-LIGHTING CONTROL FOR
- PROVIDE RECEPTACLE IN CELLING FOR SECURITY MONITOR EQUIPMENT AND CONNECT TO CIRCUIT RE-39. CONFIRM RECEPTACLE LOCATION WITH FO BITE SPECIFIC FIXTURE PLAN PRIOR TO BEGINNING CONSTRUCTION.
- (b) EXIGING EXTERIOR + BITE LIGHTING CIRCUITS AND IFTLON CIRCUIT TO BE ROUTED THROUGH THE ENERGY MANAGEMENT SYSTEM, LEVEL 3 CONTACTOR FOR CONTROL.



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FAVILY (A) [PD/1747] FAMILY DOLLAR STORE, FD# 799732 HOCAPTIMEN SC

E-2

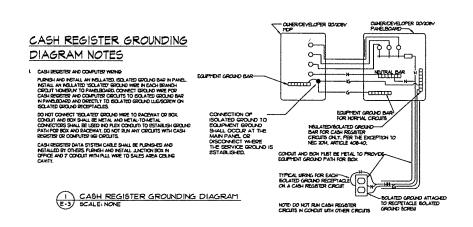
				PANE	LS	SC	HE	DULE			
PANEL NUMBER:	LP (EXISTING)										
OCATION.	STOCKROOM										
DIRECTORY		CKTNO	AKIPS/P OLES	kW	Α	В	С	kW	AMP5/P OLES	CKTNO	CRECTORY
	EXISTING PANEL 'RP'			5.20	\cdot			1,58	20/2	2	REACH-IN COOLER (C1)
		3	125/3	5.42		·		1,58	<u> </u>	4	
		5		5.74			·	1.59	20/2	6	REACH IN COOLER (C2)
	XAC-1 (HACR)			5.40	Ŀ	L.		1.59	L	8	
		9	50/3	5.40		Ŀ	Ш	1,59	20/2	10	REACHIN COOLER (C3)
		11		5,40	Ш	Щ	ш	1.59	<u> </u>	12	
	XAC-2 (HACR)			5.40	Ŀ			1,59	20/2		REACHIN COOLER (C4)
		15	50/3	5.40	L	Ŀ	Ш	1.59	l	16	
		17		5,40 2.77		L	\Box	3.82	40/2	_	REACH-IN FREEZER (F1)
	XAC-3 (HACR)	21	7613		Ŀ	l-	Н	3.82	40/0	20	DE A OLI IN ENTENTE (CA)
		23	35/3	2,77	-	Ŀ	-	3.82	40/2	24	REACH IN FREEZER (F2)
	XAC-4 (HACR)			5.40	-	-	-	3.82	4012		REACH IN FREEZER (F3)
	AAC-4 (HACIL)	27	50/3	5.40	-	-	Н	3,82	40/2	28	REACHIN FREEZER (F3)
		29	30/3	5.40	\vdash	Ė	-	1.20	20/1	1	ICE CREAM BUNKER
	REACHIN COOLER (C5)		20/1	1.50	! -	Н	H	0.10	20/1	32	
REACH-IN FREEZER (F4)			30/2	2.32	H	-	Н	0.10	20/3		
REMOTERATIVE (F4)		35	4072	2.32	Н	Н	$\overline{}$	0.10	1010	36	
LTG. TOILETS / EF-1		37	20/1	0.20	-	Н	\vdash	0.30	20/1		* ENERGY MANAGEMENT SYSTEM (E.M.S.)
	LTG, SALES AREA (LVL 1)			0.97	-	7	Н	1,20	20/1		SIGNAGE (LVL 3)
···	LTG. SALES AREA (LVL 4)		20/1	0.31	-	Н	-	1.20	20/1		FUTURE SIGNAGE (LVL 3)
	LTG, STOCKROOM (LVL 5)			0.22	-	-	Н	1.20	20/1		EXISTING PYLON/MONUMENT SIGN (LVL 3)
EXIT SIGNS /	NITE LIGHTS / EMG, LIGHTS*		20/1	0.30				0.40	20/1		EXISTING EXTERIOR BUILDING LIGHTS (LVL.)
	LTG, SALES AREA (LVL 2)	47	20/1	1.15				0.40	20/1	48	EXISTING PARKING LOT LIGHTS (LVL 3)
	LTG, SALES AREA (LVL 2)	49	20/1	1.51	·		П	0.40	20/1		EXISTING PARKING LOT LIGHTS (LVL 3)
	LTG, SALES AREA (LVL 1)	51	20/1	0.72		•		1.20	20/1	52	FUTURE SIGNAGE (LVL 3)
	SPARE	53	20/1	0,00	_			1.20	20/1	54	BAGGED ICE MACHINE (FUTURE)
									**		
MAIN BREAKER:	600A			V PHASE					42.00	緣	NOTES:
MAIN BUS:	600A			V PHASE			44.00			R = RECEPTACLE LOAD	
VOLTAGE:	208Y120V	*	kš	V PHASE	c.		43.41		138	1	
AIC:	MATCH EXISTING							CIRCUIT BREAKERS SHALL BE PROVIDED BY			
MOUNTING:	SURFACE		TOTAL KW		129.41		泛	E.C. AS REQUIRED			
LOAD SUMMARY	Connected kW	Demand Factor		-	Demand kW		188	1			
LIGHTING 11.38		1.25			_	14.23			_	1	
HVAC 56,91		1.00			_	56,91				1	
RECEPTACLES 14.96		1.00			14,96				1		
WATER HEATE	2.00	Г		1.00		_	2.00				1
COOLER/FREEZE		1,00			Г	44,16			1		
129.41						=	$\overline{}$	132.	25		

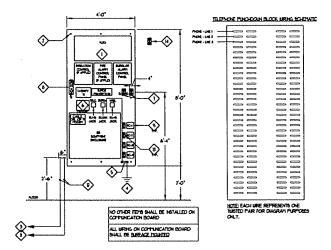
'PROVIDE CIRCUIT	BREAKER WITH A	MEANS OF	BEING LOCKED

ON EACH ELECTRICAL PANEL, CIRCUITS DENOTED WITH "(LVLE)" ARE CONTROLLED VIA LIGHTING CONTROL PANEL LCP WHICH IS PART OF THE E.M.S. (ENERGY MANAGEMENT SYSTEM). PER THE FOLLOWING, THE "LVL\$" INDICATES THE CONTACTOR(S) THAT WILL SWITCH TI ASSOCIATED CIRCUITS.

- ASSOCIATED CIRCUITS.
 LVL 1 = EMPLOYEE LIGHTS (1 CONTACTOR REQUIRED)
 LVL 2 = CUSTOMER LIGHTS (1 CONTACTOR REQUIRED)
 LVL 3 = SIGNS / EXTERIOR LIGHTS (1 CONTACTOR REQUIRED)
- LVL 5 = STOCKROOM (1 CONTACTOR REQUIRED)

				PANE	L	SC	HE	DULE			
PANEL NUMBER:	RP (EXISTING)										
LOCATION:	STOCKROOM										
DIRECTORY		CKTNO	AMPS/P OLES	kW	A	В	С	kW	AMPS/P OLES	CKTNO	DIRECTORY
EXIST	ING EXTERIOR RECEPTACLE		20/1	0.18	F			0.18	20/1		R - COMMUNICATIONS BOARD (EXISTING)
EXIST	ING EXTERIOR RECEPTACLE	۳	20/1	0.18		1		0.18	20/1	4	R - COMMUNICATIONS BOARD (EXISTING)
	AC SERVICE RECEPTACLES		20/1	0.90		Γ	•	0.20	20/1	6	DOORBELL
EX	ISTING IRRIGATION SYSTEM		20/1	0.20	·			0.00	20/1	8	SPARE
	R - ATM MACHINE		20/1	0.35	_	ŀ		0.36	20/1	10	R - REGISTER
	R - BREAK AREA		20/1	1.50	_	_	·	0.36	20/1		R - REGISTER (SOLATED)
	R - BREAK AREA		20/1	1.50	Ŀ	L		0.36	20/1		R - REGISTER
	R - STOCKROOM		20/1	0.18		·		9.35	20/1	18	R - REGISTER (ISOLATED)
	SPARE		20/1	0.00	_		Ŀ	0.36	20/1		R · REGISTER
R -	SHOW WINDOW & PRINTER	19	20/1	0.54	-			0.36	20/1	20	R - REGISTER (SOLATED)
	SPARE		20/1	0,00		Ŀ	L	2.00	30/1	22	WATER HEATER
	HAND DRYER		20/1	1.50	L		٠	0.00	20/1		SPARE
	HAND DRYER	25	20/1	1.50				0.00	20/1	26	SPARE
	R - OFFICE (ISOLATED)	27	20/1	0.16		٠		0.00	20/1	26	SPARE
	R - OFFICE (ISOLATED)		20/1	0.18			٠	0.00	20/1	30	SPARE
	R - OFFICE (ISOLATED)	31	20/1	0.18		Ι.		0.00	20/1	32	SPARE
OFFICE PLUGMOLD			20/1	0.54		F		0.00	20/1	34	SPARE
OFFICE PLUGMOLD			20/1	0.54			·	0.00	20/1	36	SPARE
R - EAS (ISOLATED)		37	20/1	0.20	·			0.00	20/1	36	SPARE
R - SECURITY SYSTEM		39	20/1	1.08	Г	•		0,00	20/1	40	SPARE
SPARE			20/1	0.00	L			0.00	20/1	42	SPARE
	SPARE	43	20/1	0.00	ŀ	Γ.	Γ.	0,00	20/1	44	SPARE
	SPARE	45	20/1	0.00	j			0.00	20/1	46	SPARE
	SPARE	47	20/1	0.00	Г		•	0.00	20/1	48	SPARE
	SPARE	49	20/1	0.00	ŀ	Π.	Г	0.06	20/1	50	SPARE
	SPARE		20/1	0.00	Π.	•	Г	0.00	20/1	52	SPARE
	SPARE		20/1	0.00	L		Ŀ	0.20	20/1		EXISTING DUCT DETECTORS
			i .			: Sea					
MAIN BREAKER:	MTO			V PHASE			<u> </u>		5.20		NOTES:
MAIN BUS:	125A			N PHASE					5,42	1,000	R = RECEPTACLE LOAD
VOLTAGE:	208Y120V		k١	V PHASE	·C-	_	Н		5,74		
AIC;	MATCH EXISTING		_	3.74		CIRCUIT BREAKERS SHALL BE PROVIDED BY					
MOUNTING:	SURFACE		TOTAL KW 16.36		E.C. AS REQUIRED						
· · · · · · · · · · · · · · · · · · ·		1	•				1	10,0	•		
LOAD SUMMARY Connected kW			Demand Factor			_	Н	Deman	d kW	Tarana.	
LIGHTING	0.00	1.25		0.00			1				
HVAC 0.00		_	1.00				0.00				1
RECEPTACLES 14.36		Г	1,00			_	14.36				1
WATER HEATER 2.00		Г	1.00				2.00				1
COOLER/FREEZER		Г	1.00				0.00			_	1
	16,36	T				16.36					
*PROVIDE CIRCUIT E	REAKER WITH A MEANS OF	BEI	NG LO	CKED							,





2 COMMUNICATION BOARD DIAGRAM E-3 SCALE: NONE

COMMUNICATION BOARD GENERAL NOTES:

- ALL PHONE AND DATA LINES SHALL BE RIM BY FO'S LOU VOLTAGE VENDOR. INSTALLATION SHALL COPPLY WITH ALL CITY: \$ STATE CODES. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDEN CODUIT WITH PALL STRING FOR ALL PHONE AND DATA LINES WERE REQUIRED BY CODE.
- 2. TELEPHONE CONDUIT, TELEPHONE BERVICE (THREE (3) LINES OFFERATIONAL), DITARC AND PRADICIOUS BLOCK SHOULD BE EXISTING AS PROVIDED AS PART OF BELL BUILDED. CONTRACTOR SHALL FOR PROJECT HANGER P NOT EXISTING OR ANY OTHER ISSUES AFFECTING RAPILALIZING OF CONTRINCTION BOARDEQUIFTENT.
- DATA CONDUIT SHOULD BE EXISTING AS PROVIDED AS PART OF SHELL BUILDING. CONTRACTOR SHALL VERRY EXISTING DATA CONDUIT AND NOTEY TO PROJECT HANGER F NOT EXISTING OR ANY OTHER ISSUES AFFECTING INSTALLATION OF CONTRINGATION BOARD/EQUIPMENT.
- CONTRACTOR SHALL INSTALL FIRE RETARDANT PLYUDOD COMMINICATION BACKBOARD, GROIND BAR TELEPHONE PLINCHOOM BLOCK + DUPLEX RECEPTACLES A MINITUM OF & LIBEKS PRIOR TO DELIVERY DATE OF SIONE TURNOVER TO FOS.
- CONTRACTOR SHALL INSTALL COTTINICATION BACKBOARD AND RECEPTACLE POURE PRIOR TO TELEPHONE AND DATA INSTALLATION DATE. PER FOCE REQUIREDENTS PERMANNI POURE IS REQUIRED PRIOR TO TELEPHONES BEING INSTALLED.
- CONTRACTOR SHALL PROVIDE OWSTE CONTACT AVAILABLE TO PROVIDE ACCESS TO TELEPHONE AND DATA CONTAMES. (TELEPHONE AND DATA CONTAMES REQUIRE SOMEON CHOSTE ON THE DAY OF NOTALLY.)
- CONTRACTOR SHALL PROVIDE ONSITE CONTACT TO PROVIDE PRODUCTI RESOLUTION FOR ALL ISSUES PERTIANNS TO PROVEDUTA FACILITIES, I.E. CORDUIT PLACEMENT, PULL STRING, BUILDING PENETRATION, SITE ACCESS, ETC.
- 1. FAMILY DOLLAR CONTACT NFO: DEPLOYMENT CENTRAL
 1-866-675-0711 (AVAILABLE BAN-4PT) EST NON-FRIL
 EMAIL NEUSTORECONSTRUCTIONSTDT #APIL TOOLLARCON.

COTTUNICATION BOARD KEYED NOTES

- V4" METAL ANCHOR BOLTS, TYPICAL & PLACES.
- 3 2" CONDUIT, SCHEDULE 40 PVC, WITH INCOMING TELEPHONE SERVICE
- 4 CONTRACTOR SHALL PROVIDE & CU GROUND TO SERVICE GROUND BAR AS REQUIRED FOR GROUNDING OF CONTUNICATION ECUPPTENT, PROVIDE NO LOOP OF & GROUND WIRE TERMINATED WITH LIG.
- 3 CONTRACTOR SHALL PROVIDE GROUND BAR WITH 1 TERTINALS FOR GROUNDING OF CONTUNICATION EQUIPMENT.
- (A) NETWORK INTERFACE DEVICE (DEMARC) ON CONTRINICATION BOARD.
- CONTRACTOR SHALL PROVIDE TWO (7) DUPLEX ISOLATED GROUND PECEPTACLES AND CONNECT TO CIRCUIT RP-3, RECEPTACLES SHALL BE SUPFACE POINTED. RECEPTACLES SHALL BE COVER PLATES.
- S CONTRACTOR SHALL PROVIDE 25 PAIR (66 CLIPS) TELEPHONE PLACHDOWN BLOCK AS SHOWN ON CONTRIBUCATION BOARD DIAGRAM.
- 3 EMB HVAC THERMOSTAT LOCATION. CONTRACTOR SHALL INSTALL THERMOSTATS FOR HVAC SYSTEMS, (FIELD VERIFY QUANTITY WITH PECHANICAL PLANS).
- NOT USED
- 2º EMPTY CONDUIT, BCHEDILE 40 PVC, WITH NYLON PULLWIRE FOR NCOTING WANDATA SERVICE (CABLE, DSL OR TI).
- D TELEPHONE AND DATA CONDUITS SHALL BE STUBBED UP WITHIN 6" OF THE CONTUNICATION BOARD AT 30" AFF. CONDUITS SHOULD NOT BY EXPOSED ON EACE OF EXTERIOR WALL.
- B DUCT SMOKE DETECTOR REMOTE TEST STATION LOCATION. CONTRACTOR SHALL INSTALL REMOTE TEST STATION.
- CONTRACTOR SHALL PROVIDE DUPLEX ISOLATED GROUND RECEPTACLE IN WALL, NEXT TO OR ABOVE COTTAINCATION BOARD TO BE USED FOR PAGNS SYSTEM. CONNECT TO CIRCUIT RP-4. RECEPTACLE SHALL DE "ORRACE" WITH WHITE COVER PLATE.

COMMUNICATION BOARD STENCILING NOTE:

NAME SHAPILS AND DOLARD STENCILING NOTE:

A STENCE SHALL BE USED TO PHAN THE LOCATIONS OF EQUIPMENT ON THE

COTTANICATION BOARD. ORDER STENCIL DIRECTLY PROFILED AREA BOAS

COPERA UITH DAWNY OR JESTETT AT 301-302-3-1430 LONG MODER FORT. THE STENCIL

COST IS STADD FILLIS SHIPPING AND IS TO BE PAID BY CONTRACTOR USING A

CREDIT CARD. THERE IS A 16 BURNESS DAY I LEAD THE. THE STENCIL TRANSFER

TAKES LESS THAN 10 CAN OF PAINT FIRST STENCIL HOLD BE APPLIED

PRIOR TO HOUSING THE BOARD ON THE MILL TO HAVE UITE THE HOLD BE APPLIED

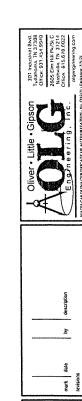
NOT FLACED IN SPACES PLANKED FOR EQUIPMENT.

A PLOTO OF THE MISTALLES COTTANICATION BOAD ALONG UITH THE ILL

NOTALLED SHALL BE SENT TO YOUR FAMILY DOLLAR PROJECT TRANSFER.

NOT ENAMED TO THE LATOUT UILL BE ACCEPTED BY FAMILY DOLLAR TIS

RESPONSIBILITY OF CONTRACTOR TO ENSURE THAT ALL BUBCCHTRACTORS ADHERE





date project designe drawn checked

2 2 3





FAMILY BOLLAR STORE, FD# 199732 HOGONT WEBS, SC. SCHEALES, NOTES, * DEFAUS

sheet E-3

GENERAL ELECTRICAL NOTES

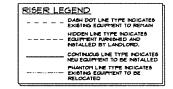
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN HATERIAL DIVING CONSTRUCTION FRANCE, ETC.
- ALL ELECTRICAL PERMITS AND HISPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR. DRAWNSS ARE DIAGRAPHATIC ONLY THE ONLY THE GENERAL ANNAHOLITEM, SEE ARCHITCHINAL DRAWNSS FOR EXACT DIPENSIONS, DO NOT SCALE PLANS.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HYAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.

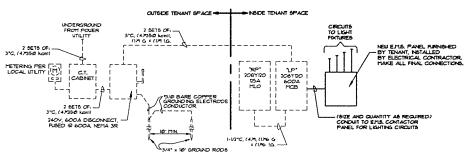
- ALL WRISE SHALL BE MITALLED IN ACCORDANCE WITH NEC. TYPE INC.

 CASHIDITED WE REPORT STEELING THE THOOL USE ETT WHERE IT'L IS

 FROM INTELLIGIBLE OF THE THOOL THE THOOL OF THE THOOL OF THE THOOL OF THOOL
- Ø. PROVIDE A PULLURE IN ALL EMPTY CONDUITS.
- 2. Rubes o 600 attes shall de ul clabs "RK-I" Lou peak dual Element the delay with 200,000 attere interrupting rating as manufactured by Bussmann Unless noted otherwise.
- ALL TERTINAL SALVOS SHALL BE 15" RATED. ALL TERTINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE HATERIAL (CUAL) OF THE CONDUCTOR AND SHALL BE PROPERLY NOTALLED.
- 4. VERFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL, SERVICE WITH LOCAL, POWER COMPANY PRIOR TO PROJECT START-UP, NOTEY ENGINEER OF ANY CHANGES AS MAY DE REQUIRED.
- 5. ALL ELECTRICAL DEVICES (SUITCHES AND OUTLETS) SHALL BE "UNITE" UITH WHITE NYLON LIMBREAKABLE WALL COVER PLATES EXCEPT THAT IS OUTLETS SHALL BE "ORANGE".

- II. PENETRATIONS OF RECUIRED SHOKE PARTITIONS SHALL BE SEALED USING PETHODS APPROVED UNDER THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR SHALL BE PLANTAINED TO INSURE THAT THIS SHOKE STOPPING IS ACCOPPLISHED.
- LUCRY PEDETRATIONS ARE MADE THROUGH A REQUIRED PIRE-RESISTIVE WALL, PLOOR, OR PARTITION FOR THE PIRMOSE OF RANNING RACEUM'T CARRYING ELECTRICAL, PIELEPHORE, TELEPHORE, RELEVISION, OR LOCAL COMMISSION AND/OR BEGINLING CREQUITS, THE OTHER AROUND THE RECEIVED SHAME HER STOPPED FOR THE STATE BUILDING CODE. COORDINATION WITH THE GENERAL CONTRACTOR WALLE BE FRANKAINED TO INVESTE HAST THIS FIRE STOPPED IS ACCOMPACION. USE APPROVED UL. OR EQUIVALENT ASSETTION.
- N. REQUIRED FIRE RATED WALLS AND PARTITIONS, OPENINGS FOR NOTALLATION OF BOXES THAT ARE GREATER THAN IS SOLARE NOLES SHALL BE PROTECTED SO REQUIRED BY UIL. COORDINATE CLOSELY WITH THE GENERAL CONTRACTOR TO MOURE THAT THE INTEGRITY OF THE UIL. RATHOS IS HARMANED.
- 70. INFIRE A HOTE RIN IS SHOUN THE CIRCUIT SHALL BE INSTALLED IN A DEDICATED CONDUIT, DO NOT COMING WITH OTHER CIRCUITS, MERCE CIRCUITS AS FOLLOWS A HANCHUT OF THREE 200 BRAING CIRCUITS AS FOLLOWS A HANCHUT OF THREE 200 BRAING CIRCUITS HAT BE COTIONED IN A COTTON HOTERN WITH SEPARATE NEUTRALS FOR A HANCHUT IOTAL OF BOX CIRCUITS OR STRING CONDUCTIONS. ALL DRAWGH CIRCUITS LARGER THAN 200 BHALL DE SEPARATELY HOTERN HOT ONE PAREL.
- 21. EACH DISCONNECT SHALL BE EQUIPPED WITH A GROUND BAR.
- 22. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTOR WITH ALL FEEDER AND BRANCH CIRCUITS.
- 23. DEVICE NEIGHTS INDICATED ARE TO THE CENTER OF THE DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE. RECEPTACLE AND DATAFILEPHONE OUTLETS BHOWN ADJUGGHT ON DRAWINGS SHALL SE FICUNTED 6" APART ON CENTER HORIZONTALLY.
- 24. COORDINATE ALL DEVICES AND OUTLETS ABOVE OR BELOW WITH CASELORS, INSTALLATION AND FDS IN ORDER TO POSITION AT THE PROPER LOCATION AND HEIGHT.
- ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 8" F AND SHALL BE DAMP OR LIET LABELED AS REQUIRED.
- . THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NOTALLING ALL ELECTRICAL EQUIPMENT, DEVICES, ETC. IN ACCORDANCE WITH LOCAL SEIGHTIC CODE REQUIPMENTS. PROVIDE SEIGHTIC RESTRAINTS, ACCESSORIES AND INSTALLATION DETAIL AS REQUIRED.







à

mark





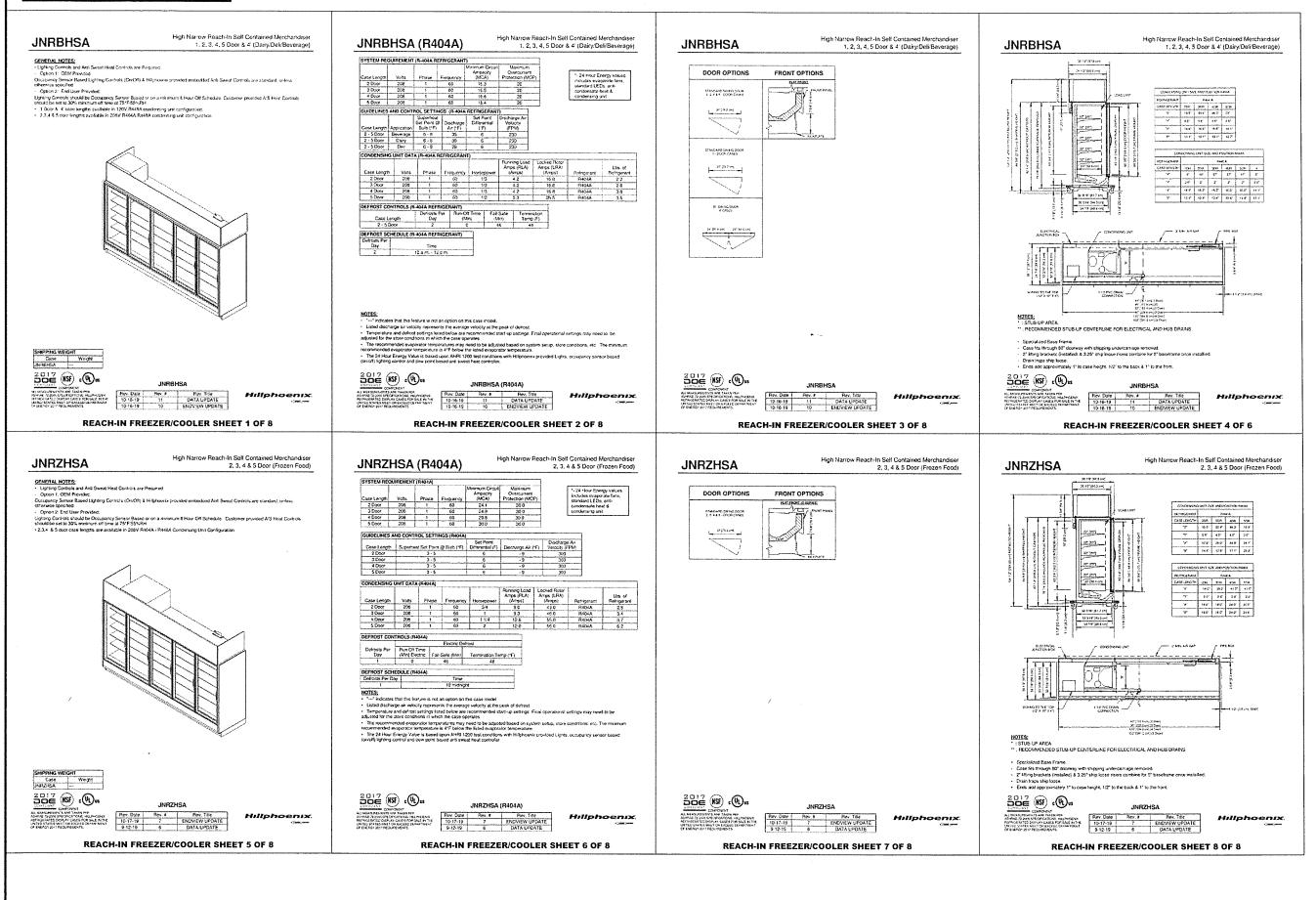




[ZAVATITY (A) [DEXITY. II] FAMILY DOLLAR STORE, FD# 199732 HOCKET YNGEN SC NOTES I RISER DIAGRAM

E-4

REACH-IN FREEZER/COOLER UNIT



date
project
designed 8NS
drawn 8NS
checked DAE



FOR REFERENCE ONLY



DS1

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. Confider 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 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 (886) 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.

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.

EMT connectors and bushings are to be installed at the top of every conduit sleeve and threaded connector to protect EMS cables from abras
 All cables are to be clearly and distinctly labeled within one foot of both ends.
 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 Pane

Label breaker: DO NOT TURN OFF / EMS
 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.

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 HYAC unit that resides closes to the EMS Panel. When installing, make sure OSA enclosure is:

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)
 Mounted 3 feet above the HVAC unit

iii. Mounted facing north, away from the combustion heat blower and condenser fan

Weather-proofed
 Mounted with the white PVC sensor pointed downward

Who shill be write when 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.
Mount and terminate the Override Button assembly as per the location specified by the DT drawings and this documentation package.
Who not adjust the DIP Switches for the EMS Override Buttons. They are factory preset for

MSTP Address = 35

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

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-pote, 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-pote, 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

I When applicable Label a william Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE

I When applicable Label A william Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE

I When applicable Label A william Electrical Distribution Panel breaker/disconnect.

III When applicable Label A william Electrical Distribution Panel Breaker/disconnect.

III When applicable Label A william Electrical Distribution Panel Breaker/disconnect.

III When applicable Label A william Electrical Distribution Panel Breaker/disconnect.

III When applicable Label A william Electrical Distribution Panel Breaker/disconnect.

III When applicable Label Panel Pane

Label Main Electrical Distribution Panel breaker/disconnect: DO NOT TURN OFF / PHASE FAILURE & RERERY METER
 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

. Address = 1

. 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.

III. Coordinate with the Mechanical Contractor to verify HVAC control during the CRS remote telephone checkout.

| Confirm the Mechanical Contractor to verify HVAC control during the CRS remote telephone checkout.
| Prior to scheduling the Remote Commissioning Checkout, the Electrical Contractor will:
| Confirm CRS Survey Form is completed and EMAILED to CRS National Account Team at Surveys@Cyton.com or FAXED to (855) 224-0879, 24 Hours Prior to scheduling the EMS Commissioning.
| Confirm the Mechanical Contractor will be present during the CRS Remote Commissioning Checkout.
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| Confirm the Mechanical Contractor will be presented and survey of the CRS Remote Commissioning Checko

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 locallon(s) specified by the DT drawings and this documentation package.

e. Utilizing 18/8 cable between the SimpleSTAT module and HVAC unit.

Terminate C, R, G, Y1, Y2, W1 and W2 on the HVAC unit for control of fan, cooling and heating. 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:

Default Cooling Setpoint = 72.0 °F
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 femperature Sensor(s) as per the location(s)specified by the DT drawings

In close proximity to the zone return air grille and away from supply air drafts.

Install and secure the Remote Temperature Sensor wire to the Thermostat Controller

h. Mount the Supply Duct Temperature sensor of each HVAC unit.

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.

Utilizing 18/2 wire, terminate the supply duct temperature sensor wire to the Thermostat module as shown in this documentation package.

Provide Electrical Contractor with roof plan layout, showing location of HVAC Units on the roof.

Provide a technician, on site, for an approximate 2-hour remote telephone checkout with CRS, Coordinate with the Electrical Contractor to verify proper HVAC control during the CRS Remote Commissioning Checkout.

CYLON RETAIL SOLUTIONS RESPONSIBILITIES: a. The following services will be supplied by CRS: i. Shipping of all contracted EMS components for the job.

Programming and downloading of CRS equipment and software
 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.

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 ₂ S)	INDOOR CO₂ SENSOR
(HS)	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#
Θ	18/2	SHIELDED PLENUN	WINDY CITY	# 002320-S
12	18/4	SHIELDED PLENUM	WINDY CITY	# 002340-S
14	18/8	NON SHIELDED PLENUM	WINDY CITY	# 002392-S
1 6	18/10	NON SHIELDED PLENUM	WINDY CITY	# 002393-S
(18)	24/8	CAT5 E PLENUM	WINDY CITY	# 5556140-S

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	DATE: 06/05/20	ECN#: 2396
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	DRAWN:WPC	ENGINEER; CGP
	PART #: 94-403	OPTION: P
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SOLUTIONS

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Suite 3 03103

Ave-

25 Sundial Av Manchester, I

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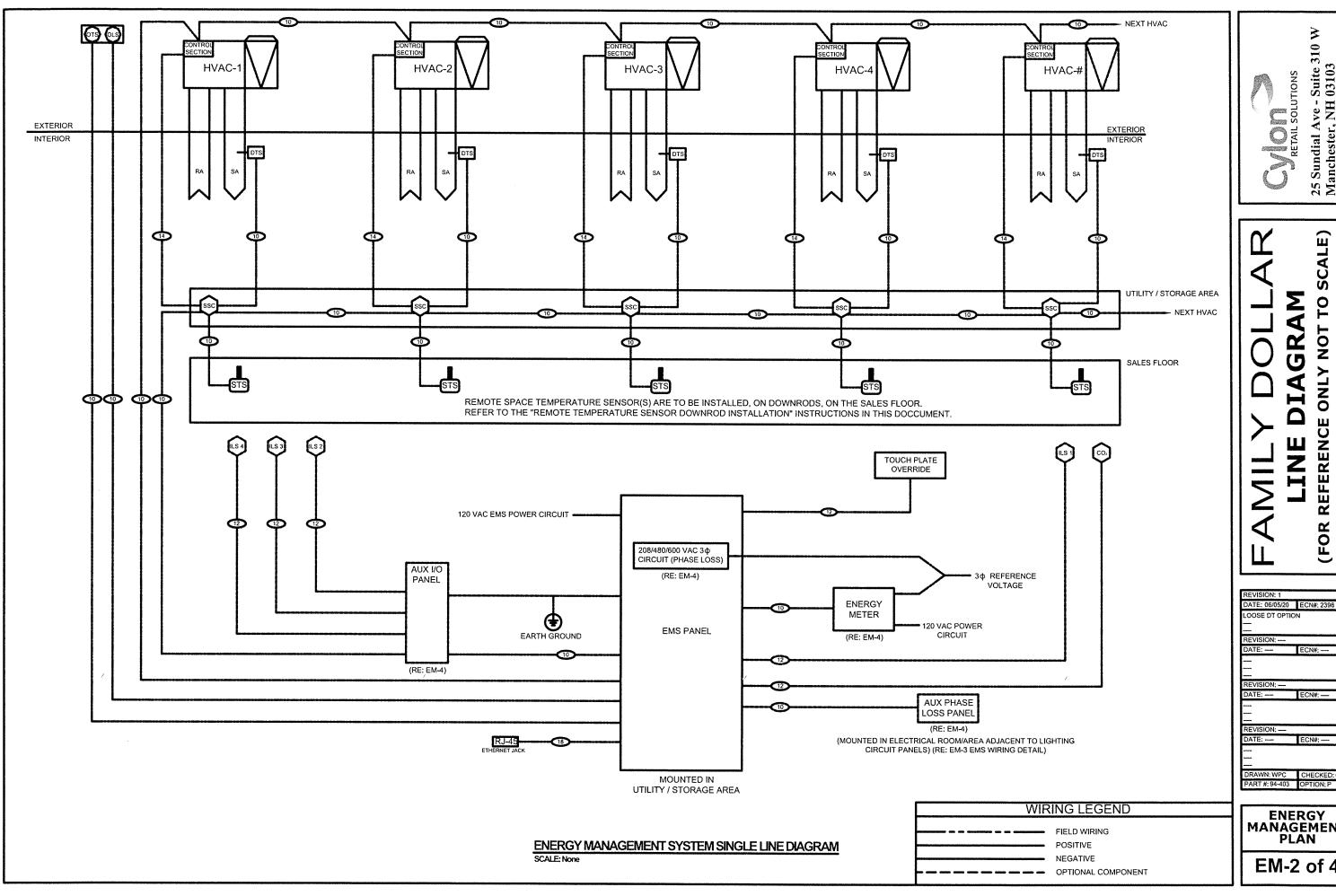
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ENERGY MANAGEMENT PLAN

EM-1 of 4



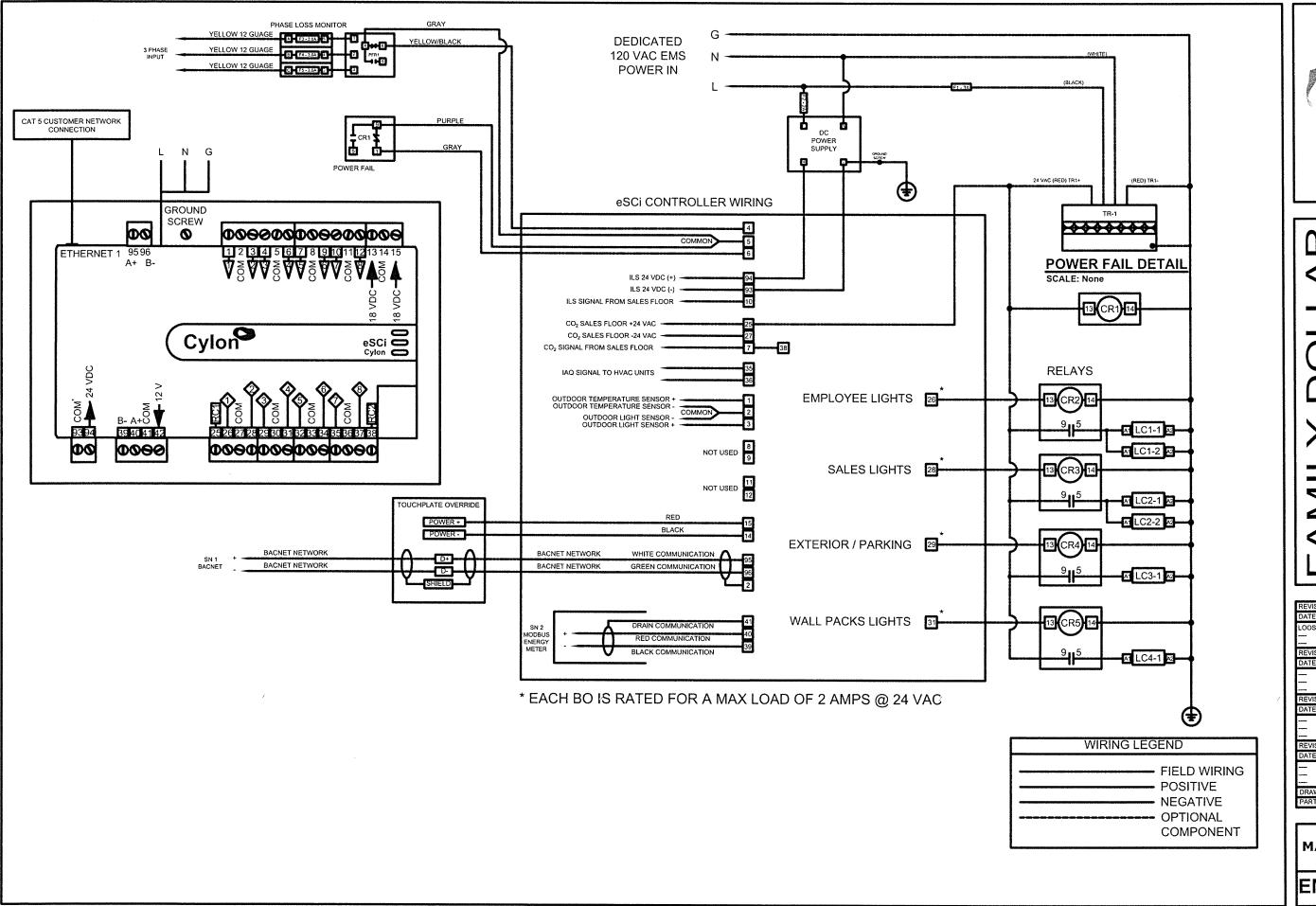
25 Sundial Ave - Suite 310 Manchester, NH 03103

(FOR REFERENCE ONLY NOT TO SCALE) GRAM IA

LOOSE DT OPTION ECN#; ----

ENERGY MANAGEMENT PLAN

EM-2 of 4



RETAIL SOLUTIONS

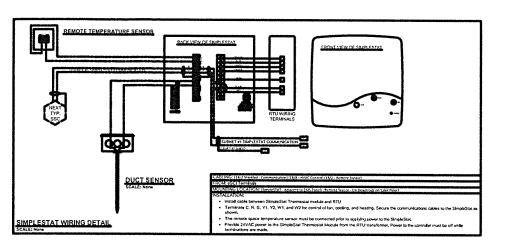
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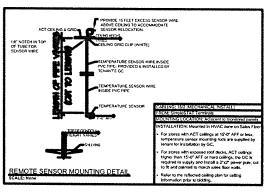
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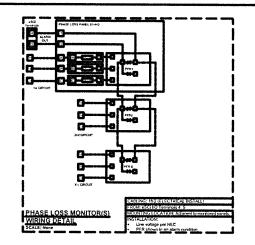
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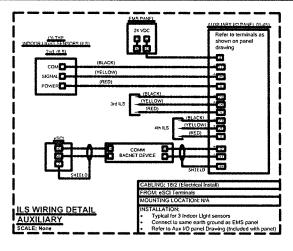
ENERGY MANAGEMENT **PLAN**

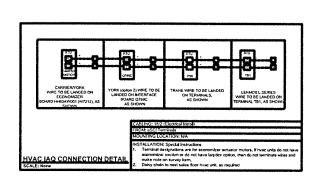
EM-3 of 4

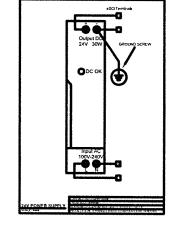


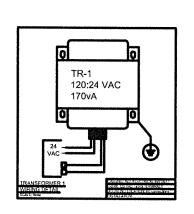


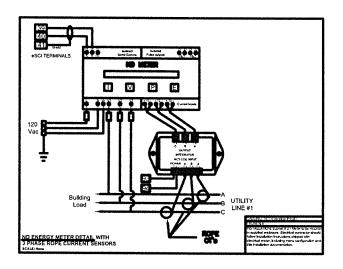


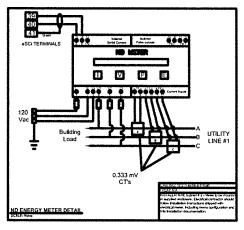


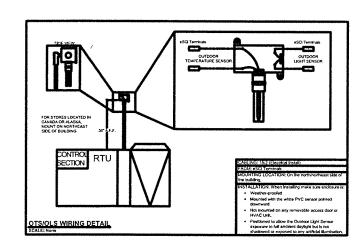


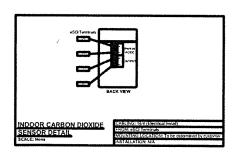


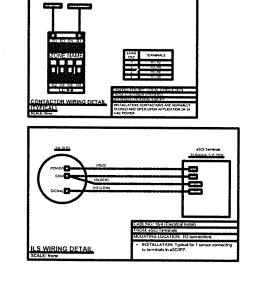


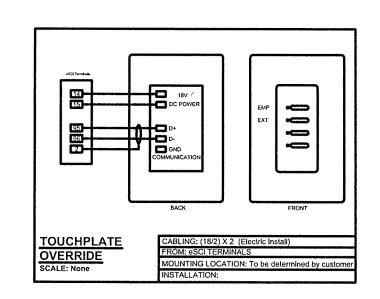














RETAIL SOLUTIONS

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

ENERGY MANAGEMENT PLAN
EM-4 of 4