

ELECTRICAL LEGEND			
XX	TELEPHONE RECEPTACLE (PROVIDE 4X4 JB AND 1G PLASTER RING WITH 3/4" C. TO ABOVE CEILING OR ROOF STRUCTURE)	SXX	20A WALL SWITCH (3 - THREE WAY, 4 - FOUR WAY, DPST - DOUBLE POLE SINGLE THROW, D - DIMMER SWITCH, P - W/ PILOT LIGHT)
XX	DATA RECEPTACLE (PROVIDE 4X4 AND 1G PLASTER RING JB WITH 3/4" C. TO ABOVE CEILING OR ROOF STRUCTURE)	M	MANUAL MOTOR STARTER WITH THERMAL OVERLOADS
XX	PHONE / DATA RECEPTACLE (PROVIDE 4X4 JB AND 1G PLASTER RING WITH 3/4" C. TO ABOVE CEILING OR ROOF STRUCTURE)	T	TIMER WALL SWITCH - TORX MODEL A502HW
XX	20A DUPLEX RECEPTACLE (WP-WEATHERPROOF, GF-GROUND FAULT INTERRUPTION)	E	EQUIPMENT CONNECTION
XX	20A DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER (42" AFF UNLESS OTHERWISE NOTED)	J	JUNCTION BOX
XX	20A DUPLEX ISOLATED GROUND RECEPTACLE	F	FLUSH FLOOR JUNCTION BOX
XX	20A DUPLEX ISOLATED GROUND RECEPTACLE MOUNTED ABOVE COUNTER (42" AFF UNLESS OTHERWISE NOTED)	W	WALL MOUNTED JUNCTION BOX
XX	SINGLE RECEPTACLE (NEMA SIZE AS SHOWN)	P	PHOTOCELL
XX	SPECIAL PURPOSE RECEPTACLE (NEMA SIZE AS SHOWN) VERIFY CONFIGURATION WITH EQUIPMENT MANUFACTURER	SM	SURFACE MOUNTED PLUGMOLD, OUTLETS 6" ON CENTER
XX	20A QUAD RECEPTACLE	SM	SURFACE MOUNTED PANELBOARD
XX	20A ISOLATED GROUND QUAD RECEPTACLE	TV	CABLE TV OUTLET
XX	20A QUAD RECEPTACLE MOUNTED ABOVE COUNTER (42" AFF UNLESS OTHERWISE NOTED)	CC	CONDUIT AND WIRE CONCEALED IN WALLS OR CEILING
XX	20A QUAD ISOLATED GROUND RECEPTACLE MOUNTED ABOVE COUNTER (42" AFF UNLESS OTHERWISE NOTED)	CF	CONDUIT AND WIRE CONCEALED BELOW FLOOR
XX	CEILING COND DROP RECEPTACLE CONNECTOR (NEMA SIZE AS SHOWN)	XX	PLAN NOTE SYMBOL
XX	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE	UU	TRANSFORMER
XX	FLUSH FLOOR MOUNTED QUAD RECEPTACLE	UU	SHIELDED ISOLATION TRANSFORMER
XX	CEILING MOUNTED JUNCTION BOX	GM	GROUND FAULT CIRCUIT INTERRUPTER
XX	MOTOR	GC	GROUND CONNECTION
XX/Y	NON-FUSED SAFETY SWITCH (POLES/SIZE)	M	MAGNETIC MOTOR STARTER (NEMA SIZE)
XX/Y/Z	FUSED SAFETY SWITCH (POLES/SIZE/FUSE)	M	COMBINATION MOTOR STARTER (NEMA SIZE)
XX	MAGNETIC MOTOR STARTER (NEMA SIZE)	ATS	AUTOMATIC TRANSFER SWITCH
XX	COMBINATION MOTOR STARTER (NEMA SIZE)	CT	CURRENT TRANSFORMER
H/PM	HARRIS TEETER PROJECT MANAGER.	UM	UTILITY METER
G.C.	GENERAL CONTRACTOR	OC	OC1-WAITSTOPPER MODEL C1-200 OC2-WAITSTOPPER MODEL WT-1100 OC3-WAITSTOPPER MODEL WT-2200 POWER PACK MODEL BZ-150
E.C.	ELECTRICAL CONTRACTOR	OC	OC4-WAITSTOPPER MODEL CB-100 OC5-WAITSTOPPER MODEL DCC2 (MOMENTARY SWITCH)
		SOC	WALL SWITCH OCCUPANCY SENSOR- WAITSTOPPER UW-100

CONDUIT ROUTING INFORMATION	
THE ELECTRICAL CONTRACTOR SHALL INSTALL CONDUITS UTILIZING THE FOLLOWING METHODS:	
• OUTDOOR, UNDERGROUND: SCHEDULE 40 PVC, TYPE RNC.	• OUTDOOR EXPOSED: RIGID METAL CONDUIT, TYPE RMC.
• INDOOR EXPOSED: ELECTRICAL METALLIC TUBING, TYPE EMT.	• OUTDOOR CONNECTION TO HVAC EQUIPMENT AND REFRIGERATION CONDENSING UNITS: LIQUID TIGHT FLEXIBLE METAL CONDUIT, TYPE LFMC.
• INDOOR CONCEALED: ELECTRICAL METALLIC TUBING, TYPE EMT OR TYPE MC CABLE.	• INDOOR, BENEATH SLAB GRAVEL: SCHEDULE 40 PVC, TYPE RNC. NOTE CONDUITS BELOW SLAB MUST BE MIN. 12" BELOW STONE.

NC ENERGY CODE COMPLIANCE STATEMENT	
1. IN ACCORDANCE WITH SECTION 303.1, EXCEPTION 2, THE FOLLOWING NEED NOT COMPLY PROVIDED THE ENERGY USE OF THE BUILDING IS NOT INCREASED. 1. LIGHTING ALTERATIONS THAT REPLACE LESS THAN 50% OF THE LUMINAIRES IN A SPACE, PROVIDED THAT SUCH ALTERATIONS DO NOT INCREASE THE INSTALLED INTERIOR LIGHTING POWER.	
ENGINEER OF RECORD: KNOX STACY	DATE: 09-09-2019

2008 NC ELEC CODE EXCEPTION 2 & COMPLIANCE MATRIX			
SEARCHED	ASSED	SEARCHED	ASSED
TYPE	QUANTITY	WATTS	TOTAL
2-wire @ 120v/15amp	4	75	280
3-wire @ 120v/15amp	6	140	1120
3-wire @ 20v/15amp	493	30	14790
	0	0	0
TOTAL WATTS REMOVED			15110
TOTAL WATTS ADDED			1120
INSTALLED LIGHTING WATTAGE NET CHANGE			14000

PARTIAL EMS CONTACTOR SCHEDULE - NOTE: EXISTING CONDITIONS ARE IN ITALIC, NEW NEW BOLD							
EMS ID POINT	CONTROL POINT	CONTROL CIRCUIT	CONTACTOR TYPE	CIRCUITS CONTROLLED	DESCRIPTION	CONTACTOR LOCATION	COMMENTS
MP99-8025-03	W	603P/602	ABB A4B 30-18-6A 3 POLE-80A W/ ENCLOSEURE	08-1,3,8	HOT/COLD WINDMILL (HOT SIDE) (MARKET HALL)	ALL LEVEL 03	ROUTE NEW CIRCUIT THRU NEW CONTACTOR
MP99-8024-01	N2	AP4-27	EXISTING 4 POLE-30A W/ ENCLOSEURE	LPC-26,28,30,32	WALL WASH LIGHTS	EXISTING PANEL LPC	VERIFY EXISTING CIRCUITS ARE ROUTED THROUGH EXISTING CONTACTOR

CONTACTOR SCHEDULE AND PANEL GENERAL NOTES:	
1.	ALL CONTROL WIRING SHALL BE #12 AWG IN CONDUIT UNLESS OTHERWISE NOTED.
2.	TIME SCHEDULE FOR LIGHTING CONTROL FOR EACH CONTROL POINT SHALL BE STAGGERED BY AT LEAST 5 SECONDS TO AVOID HIGH INRUSH CURRENTS.
3.	CONTACTORS USED FOR LIGHTING CONTROL SHALL BE LISTED AND RATED FOR USE WITH THE LOADS AS SPECIFIED IN THE CONTACTOR SCHEDULE.
4.	PROVIDE CONTROL RELAY FOR CONTACTOR CONTROL AND ALL EMS BOARD RELAY OUTPUTS, CONTROL RELAYS SHALL BE 10A CUBE TYPE RELAYS, ABB CR-W120A2C OR EQUAL.
5.	CONTACTORS SHALL BE LABELED AS INDICATED IN THE SCHEDULE.
6.	NEW CONTACTOR CABINET ENCLOSURES SHALL BE NEMA 12 WITH HINGED COVERS.
7.	CONTACTOR CABINETS, CONTACTORS, RELAYS, WIRING AND OTHER AUXILIARY MATERIALS REQUIRED TO BUILD CONTACTOR CABINETS OR MODIFY EXISTING CABINETS SHALL BE PROVIDED, CONSTRUCTED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

Harris Teeter Commercial Lighting "Base" Fixture Schedule									
Fixture Count	Image	Description / Remarks	Manufacturer & Catalog #	Volts	# of Lamps	Lamp Part # / UPC #	VA	Remarks	Input Watts
19	F1	4' LED Cooler/Fresher Fixture, 400Dk, 85 CRI Non Dimmable, 56W	Power Concepts LT-1228L40	120/277	1	LED	38	CONDUIT AND WIRING SHALL ONLY ENTER THE FIXTURE THROUGH FACTORY PROVIDED AND APPROVED KNUCKOUTS.	56
1	M1	8' Fluorescent Narrow Strip with a 16" x 4" Asymmetric Reflector & one Osram Syvira Ballast (Program Start) with quick disconnect	Lithonia TZ 1 32 MVOLT OS10PSX ZBASR48	MVOLT	2	Part # GE F32T8/SPX35/ECO UPC # 25912	70	MOUNT ON TOP OF CASE.	65
1	M2	4' Fluorescent Narrow Strip with a 16" x 4" Asymmetric Reflector & one Osram Syvira Ballast (Program Start) with quick disconnect	Lithonia Z 1 32 MVOLT OS10PSX ZBASR48	MVOLT	1	Part # GE F32T8/SPX35/ECO UPC # 25912	35	MOUNT ON TOP OF CASE.	36
12	O1	LED Outdoor Wall Pack Luminaire - Full Cutoff (Dark Sky Compliant) - Bronze Polyester Powder Coat Finish	Lithonia HST LED P2 40K V6 MVOLT DDBXD	MVOLT	1	LED	25	MATCH EXISTING MOUNTING HEIGHT	25
4	O3	Emergency Only Fixture - Flush Mounted - Dark Bronze - High Temperature 11-cad battery failed from -18° to 50°C (0° to 122°F), self-diagnostic. Labeled for cold weather: damp and wet location	Lithonia AFN DB EXT	120/277	(2) Included w/ Fixture	6W Wedge-Base Xenon		MOUNT @ 6' AFF UNLESS NOTED OTHERWISE	35
12	Q	2X2 LED Troffer	Mercury Lighting LR34-22G-750D-40K-8A-UNV	120/277	1	LED	75		75
8	O	Surface mounted 10" LED canopy fixture	Sylvania CANOPY-3A040-UNV-7-40T2S-5BZ		(2) Included w/ Fixture	LED	44	1 FOOT MOUNT ON CANOPY CEILING	40

**Harris Teeter Lighting Package Bid Note**

The following applies to Harris Teeter projects listed as new locations or remodels.

Harris Teeter, Inc. (HT) has identified Border States of Charlotte, NC as the only approved supplier for HT commercial lighting fixtures and lamps. HT will purchase these products directly from Border States.

All electrical contractors, or EC's, are required to contact Border States to verify a complete bill of material & scope. It is not necessary for Border States to price these materials to each contractor. The contact information for Border States is provided below.

Border States will provide the following to the awarded EC:

- Final Bill of Material
- Cut Sheets (as required)
- Installation Instructions

The awarded EC is responsible for the following:

- Providing a schedule to Border States with required product arrival dates to the job site.
- Receiving, storing, and insuring (up to \$250,000) all lighting fixtures and lamps until the installation is complete.
- Counting all products when received and reporting any damages or shortages to Border States within 48 hours.
- Reporting any product failures to Border States within 48 hours of failure.

Any lighting package warranty issues, as related to product failure only, will be handled by HT from the store's grand opening date (this includes ballast and lamps). Any lighting package warranty issues as related to electrical workmanship will be the responsibility of the EC for a period of 12 months from the store's grand opening date. As long as any problem is documented, post marked, or electronically dated prior to the end of the 12 month period, it shall be corrected at no charge to HT.

Primary Contact:  
Derek Miller  
Office - 704-372-3040  
E-mail: dmiller@borderstates.com

AFFECTED DISCIPLINES: GENERAL CONTRACTOR  
ELECTRICAL CONTRACTOR

Harris Teeter, Inc. Projects Managers are asked to please copy the above contacts on new store bid notes with further notice. Please also copy: ht@borderstates.com

Design and Construction Documents are instruments of service as given in accordance with the terms of the contract. These construction documents for purposes other than the specific project named herein are void. No part of this document may be reproduced in any form by any means without the written permission of Borderland Associates.

Date: SEPTEMBER 10, 2019 Job No. 1922	
Revisions:	
No.	Date
1	
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**BORDERLAND ASSOCIATES**  
ARCHITECTURE & ENGINEERING  
444 CHAWKORD STREET  
PORTSMOUTH, VIRGINIA

**BRAND ENGINEERING, INC.**  
NC LICENSE NO. C-1804  
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RICHMOND, VA 23220  
PHONE: (804) 794-8588  
FAX: (804) 794-8588  
EMAIL: cbrand@brandec.com

**Harris Teeter**  
Neighborhood Food & Pharmacy

Project: **HARRIS TEETER STORE #289 - REMODEL**  
2603 GLENWOOD AVENUE, SUITE 101  
RALEIGH, NC 27608  
Title: **ELECTRICAL NOTES, LEGEND AND SCHEDULES**



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