



**GENERAL ELECTRICAL NOTES**

- ELECTRICAL CONTRACTOR SHALL FURNISH ALL LICENSES, PERMITS, ETC. REQUIRED TO PERFORM THE WORK. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE LANDLORD, LOCAL AUTHORITIES, THE UTILITY COMPANY, THE NATIONAL ELECTRICAL CODE AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- UPON COMPLETION OF ALL ELECTRICAL WORK, CONTRACTOR SHALL FURNISH TO OWNER A CERTIFICATE OF APPROVAL ISSUED BY LOCAL AUTHORITY OR BY AN ELECTRICAL INSPECTION AGENCY LICENSED BY LOCAL AUTHORITIES TO PERFORM SUCH INSPECTIONS.
- ALL ELECTRICAL ITEMS FURNISHED AND/OR INSTALLED BY ELECTRICAL CONTRACTOR SHALL BE UNCONDITIONALLY GUARANTEED FOR 12 MONTHS LABOR AND MATERIALS. GUARANTEE SHALL BE IN FULL FORCE FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER. LIGHT BULBS AND LAMPS SHALL BE INSTALLED AND GUARANTEED. HOWEVER, ON THE DATE OF FINAL ACCEPTANCE BY OWNER, ALL LIGHT BULBS AND LAMPS SHALL BE INSTALLED. ORDER WHERE AN ITEM HAS BEEN FURNISHED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR, ONLY THE INSTALLATION AND WIRING SHALL BE GUARANTEED BY ELECTRICAL CONTRACTOR; GUARANTEE ON THE ITEM SHALL BE PROVIDED BY THE PARTY FURNISHING THE ITEM.
- GENERALLY ALL WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT). SET SCREW FITTINGS MAY BE USED IN AREAS NOT SUBJECT TO MOISTURE. USE WEATHERPROOF COMPRESSION FITTINGS IN ALL LOCATIONS SUBJECT TO MOISTURE. FINAL CONNECTIONS TO RECESSED LIGHTING FIXTURES, VIBRATING EQUIPMENT, ETC. SHALL BE MADE WITH FLEXIBLE METALLIC CONDUIT ("GREENFIELD") IN LENGTHS NOT TO EXCEED 5 FEET. WHERE SUCH CONNECTIONS ARE MADE IN LOCATIONS SUBJECT TO MOISTURE, USE WEATHERPROOF FLEXIBLE METALLIC CONDUIT ("SEALTITE") IN LENGTHS NOT TO EXCEED 5 FEET.
- IF PERMITTED BY LANDLORD AND LOCAL AUTHORITIES, CONCEALED BRANCH CIRCUIT WIRING MAY BE INSTALLED IN METALLIC CABLE ("MC").
- MC CABLE SHALL BE INSTALLED IN A WORKMANLIKE MANNER. NO SUCH CABLE SHALL BE INSTALLED IN FRONT OF WALL OR PARTITION FROM CEILING SPACE DOWN INTO PANEL. SUCH CABLES SHALL BE INSTALLED WITHIN WALL OR PARTITION IF POSSIBLE.
- IF SUCH CABLES ARE INSTALLED IN FRONT OF WALL OR PARTITION, USE CONDUIT SLEEVES OR ENTER CABLES INTO A JUNCTION BOX INSTALLED ABOVE CEILING AND SPLICE ONTO WIRING INSTALLED IN CONDUIT DOWN INTO PANEL. IF LATTER METHOD IS USED, INSTALLATION MUST BE IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE AMPACITY TABLES (NOTE 8(A)). FOR THIS PURPOSE, #12 AWG TYPE THHN WIRE SHALL BE RATED AT NOT MORE THAN 25 AMPERES.
- ALL EXPOSED WIRING, PANEL FEEDERS, HVAC EQUIPMENT FEEDERS, ETC. SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT). NO EXPOSED NON-METALLIC CABLE SHALL BE PERMITTED. ALL WIRE SHALL BE COPPER REGARDLESS OF WIRING METHOD.
- WIRING IN EARTH OR CONCRETE SHALL BE INSTALLED IN GRS CONDUIT, IMC CONDUIT OR PVC CONDUIT (SCHEDULE 40), WHERE PVC CONDUIT IS USED, AN ADDITIONAL GROUND WIRE SHALL BE INSTALLED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. THERE SHALL BE NO EXPOSED PVC CONDUITS. ALL STUB UPS EXTENSIONS ABOVE GRADE, ETC. SHALL BE IN METAL RACEWAY. USE GRS CONDUIT, IMC CONDUIT OR EMT. (THERE SHALL BE NO EMT INSTALLED IN CONTACT WITH EARTH OR CONCRETE.)
- ALL UNDERGROUND CABLE SHALL BE INSTALLED IN RACEWAY. NO DIRECT BURIAL CABLE OF ANY KIND SHALL BE USED UNLESS SPECIFICALLY NOTED.
- ALL UNDERGROUND WIRING SHALL BE INSTALLED AT DEPTHS AS PRESCRIBED BY THE NATIONAL ELECTRICAL CODE. WHERE REQUIRED BY THE N.E.C., INSTALL A CONCRETE ENVELOPE AROUND CONDUITS.
- FOR UNDERGROUND WIRING IN EXCESS OF 600 VOLTS, A CONTINUOUS WARNING RIBBON SHALL BE INSTALLED 24" ABOVE CONDUITS STATING "CAUTION BURIED HIGH VOLTAGE LINE BELOW". RIBBON SHALL BE DETECTABLE TYPE AND SHALL BE LEM PRODUCTS #0E1-609 OR EQUAL.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING OF FINISHED SURFACES, EXCAVATION, CONCRETE ENVELOPES, TAMPING, BACKFILL, ETC. REQUIRED FOR INSTALLATION OF UNDERGROUND WIRING.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO DETERMINE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, FACILITIES, ETC. PRIOR TO STARTING ANY EXCAVATION. ELECTRICAL CONTRACTOR SHALL HAVE TOTAL RESPONSIBILITY FOR ANY DAMAGE DONE TO ANY EXISTING UNDERGROUND UTILITIES OR OTHER FACILITIES BY HIS WORK.
- COLORS AND FINISHES OF ALL SWITCHES, RECEPTACLES, DIMMERS, COVER PLATES, ETC. WILL BE SELECTED BY ARCHITECT. VERIFY ALL SUCH COLORS AND FINISHES PRIOR TO INSTALLING ANY WIRING DEVICES.
- SWITCHES AND RECEPTACLES SHALL BE SPECIFICATION GRADE (NOT "COMPETITIVE GRADE"). ALL WIRING DEVICES SHALL BE RATED AT 20 AMP AT THE VOLTAGE AT WHICH THEY WILL BE USED. WIRING DEVICES SHALL UTILIZE CLAMP TYPE TERMINALS. BACK WIRE "PRESSURE" TYPE INSERT TERMINALS ARE NOT ACCEPTABLE. SINGLE POLE SWITCHES SHALL BE HUBBELL #1221 SERIES (OR EQUAL); 3 WAY SWITCHES SHALL BE HUBBELL #1223SERIES (OR EQUAL). FOUR WAY SWITCHES SHALL BE HUBBELL #1224 SERIES (OR EQUAL). DUPLEX RECEPTACLES SHALL BE HUBBELL #5362 SERIES (OR EQUAL). DIMMERS SHALL BE AS SPECIFIED ON DRAWINGS.
- WHERE SWITCHES AND DIMMERS ARE SHOWN ADJACENT TO EACH OTHER, DO NOT INSTALL IN COMMON "GANG BOXES". SWITCHES MAY BE IN COMMON BOXES AND DIMMERS MAY BE IN COMMON BOXES. HOWEVER, IF SWITCHES AND DIMMERS ARE INSTALLED IN SAME COMMON BOX, COVER PLATES WILL NOT ALIGN PROPERLY. ALLOW 1" SPACE BETWEEN SWITCH BOXES AND DIMMER BOXES.
- CAUTION: USE SEPARATE NEUTRALS FOR EACH DIMMER CIRCUIT. USE OF A COMMON NEUTRAL MAY CAUSE DIMMERS TO MALFUNCTION.
- WHERE SWITCHES ARE SHOWN GANGED TOGETHER, LOCATIONS ARE DIAGRAMMATIC ONLY. ARRANGE SWITCHES IN ROWS AS FIELD CONDITIONS DICTATE.
- USE GRS CONDUITS FOR ALL RUNS GOING OUT TO OR THROUGH THE GAS CANOPY OR TANKS AREAS.

**CLIENT NAME:** WAWA  
280 W. BALTIMORE PIKE  
WAWA, PA 19083

**PROJECT NAME:** U45-VA V2018 01-MA  
STORE #8647-PHM  
PARRHAM RD. & THREE CHOPT RD.  
HENRICO, VA

**REVISION SCHEDULE:**

| No. | Description  | Date       |
|-----|--------------|------------|
| 1   | PERMIT SET   | 09/21/2018 |
| 2   | REV V2018 01 | 01/29/2019 |
| 3   | BID SET      | 01/29/2019 |

**PROJ. NO.:** 2180133  
**DATE:** 05-21-2018  
**DRAWN:** M.B.  
**CHECKED:** J.M.

**ELECTRICAL CONTRACTOR SHALL PURCHASE POWERPLUS INTEGRATED ELECTRICAL DISTRIBUTION SYSTEM AND GENERATOR CONNECTION BOX FROM HILL PHOENIX. CONTACT OTIS SMITH @ 800-918-9630 X3322 FAX #770-265-3252 FOR PRICING, DELIVERY AND INSTALLATION REQUIREMENTS.**

**LEGEND**

- PRE-WIRED BY HILL PHOENIX
- INSTALLED BY ELECTRICAL CONTRACTOR

1925 Prospect Ave.  
Oxford, PA 17003  
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