

SEAL:

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09/03/2020

NO. DATE REMARKS
REVISIONS



7-ELEVEN
STORE #41559

1245 S. VOLUSIA AVENUE
Orange City, FL 32763

PROJECT NO: 2019.0743
DATE: APRIL 7, 2020

CWE2.0
CAR WASH CONTROL
WIRING PLAN

CHECKED: - DRAWN: M.M.

CAR WASH WIRE/CONDUIT SCHEDULE

REFERENCE NUMBER	ORIGIN	TERMINUS	QTY	WIRE/CABLE SIZE	CONDUIT	NOTES
10	WASH BAY TERMINAL BOX	OFF BOARD CHEMICAL STATION	9	#14 AWG WIRES #14 AWG GREEN WIRE	3/4"	
11	OFF BOARD CHEMICAL STATION	TRIFAM DETERGENT PUMP	10	#14 AWG WIRES #14 AWG GREEN WIRE	3/4"	
13	WASH BAY TERMINAL BOX	PURCLEAN WINDOW RINSE DELIVERY PUMP	6	#14 AWG WIRES	1/2"	
14	WASH BAY TERMINAL BOX	PURCLEAN R.O. SYSTEM	2	#14 AWG WIRES	1/2"	
15	WASH BAY TERMINAL BOX	VALVE ASSY/WALL MOUNTED	3	#14 AWG WIRES	1/2"	
16	WASH BAY TERMINAL BOX	UNITEC C-START COIN BOX	10	#14 AWG WIRES #14 AWG GREEN WIRE	3/4"	
17	UNITEC C-START COIN BOX	CASHER'S AREA	1	#14 AWG WIRES	1/2"	
18	UNITEC C-START COIN BOX	CASHER'S AREA	2	CAT 5 COMMUNICATION CABLE	3/4"	
24	ENTRANCE ACTIVATION PHOTOEYE RELAY BOX	WASH BAY TERMINAL BOX	4	#14 AWG WIRES	1/2"	
25	ENTRANCE ACTIVATION PHOTOELECTRIC RELAY BOX	ENTRANCE ACTIVATION PHOTOEYE JUNCTION BOX	1	PHOTOEYE CABLE	1/2"	CABLE SUPPLIED BY RYKO
26	ENTRANCE ACTIVATION PHOTOEYE JUNCTION BOX	ENTRANCE ACTIVATION PHOTOEYE (WALL MOUNT)	1	PHOTOEYE CABLE	1/2"	CABLE SUPPLIED BY RYKO
27	BAY SWITCH/BACK-UP AIR SWITCH J-BOX (BY OTHERS)	WASH BAY TERMINAL BOX	4	#14 AWG WIRES #14 AWG GREEN WIRE	1/2"	
28	WASH BAY TERMINAL BOX	COMMUNICATION INTERFACE BOX	4	#14 AWG WIRES #14 AWG GREEN WIRE 4 PAIR SHIELDED CABLE SUPPLIED BY RYKO	3/4"	
33	EXTERIOR DUAL THERMOSTAT ASSEMBLY	WASH BAY TERMINAL BOX	3	#14 AWG WIRES	1/2"	LOCATE THERMOSTAT BULBS ON THE OUTSIDE OF THE NORTH WALL OUT OF DIRECT SUNLIGHT
34	PURCLEAN RECLAIM CONTROL WIRING	WASH BAY TERMINAL BOX	4	#14 AWG WIRES	1/2"	
35	PURCLEAN RECLAIM CONTROL WIRING	FLOAT SWITCHED AT LAST TANK OF RECLAIM	4	#14 AWG WIRES	1"	UNDERGROUND PVC PIPE FROM RIGHT SIDE OF RECLAIM TO FLOAT SWITCHES IN LAST TANK
36	WASH BAY TERMINAL BOX	REPRESSURIZATION PUMP ON R.O. SYSTEM	3	#14 AWG WIRES	1/2"	
37	3 MESSAGE ENTRANCE SIGN	WASH BAY TERMINAL BOX	4	#14 AWG WIRES #14 AWG GREEN WIRE	1/2"	
40	WASH BAY TERMINAL BOX	MACNEIL MOTOR CONTROL CABINET (DRYERS)	6	#14 AWG WIRES		
41	MACNEIL MOTOR CONTROL CABINET (DRYERS)	10HP MOTORS 21AMPS (3 PLCS)	3	#8 AWG WIRES #8 AWG GREEN WIRE (USE STRANDED COPPER)	1"	
42	WASH BAY TERMINAL BOX	TSS COUNT DOWN TIMER	5	#16 AWG WIRES	1/2"	

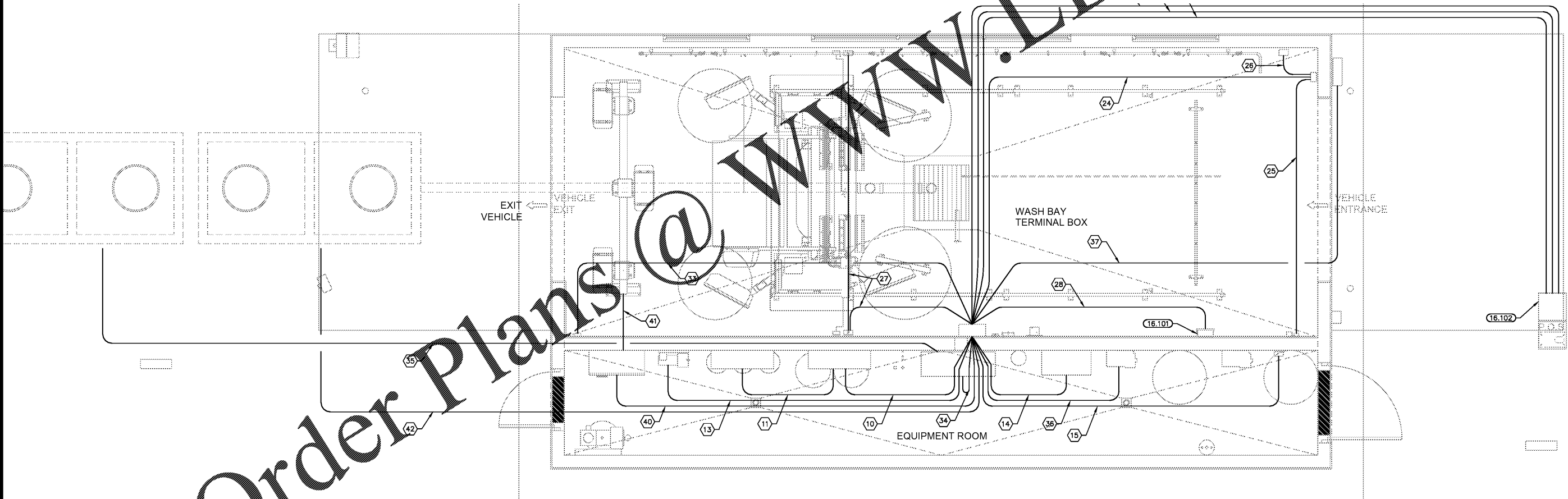
GENERAL NOTES

- CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH EQUIPMENT MANUFACTURER'S FINAL EQUIPMENT LAYOUT AND INSTALL LOW VOLTAGE CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.
- ROUTE ALL CONDUITS OVER HEAD, UNLESS NOTED OTHERWISE WITH DASHED LINE.
- ALL CONDUIT AND JUNCTION BOXES SHALL BE PVC, UNLESS NOTED OTHERWISE. ALL CONDUITS PASSING THROUGH WASH BAY'S SHALL HAVE WATERTIGHT FITTINGS.
- JUNCTION BOX REQUIRED FOR EACH PIECE OF EQUIPMENT.

KEY NOTES

16.101 THIS GROUND ROD MAY ALSO BE CONNECTED TO THE REQUIRED ETHERNET FIREWALL BUT MUST NOT BE CONNECTED TO ANY OTHER PLACES OR DEVICES.

16.102 INSTALL AN 8 FOOT COPPER GROUND ROD THROUGH THE CONCRETE UNDER THE CONBOX. LEAVE 2 TO 3 INCHES OF THE ROD STICKING UP OUT OF THE CONCRETE POUR. DURING CONBOX INSTALLATION, CONNECT THE GROUND ROD TO THE CONBOX MOUNTING BOLTS TO GROUND THE CONBOX CABINETRY. DO NOT CONNECT THIS GROUND ROD TO ANY OTHER PLACES OR DEVICES.



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1 CAR WASH CONTROL WIRING PLAN
3/8" = 1'-0"