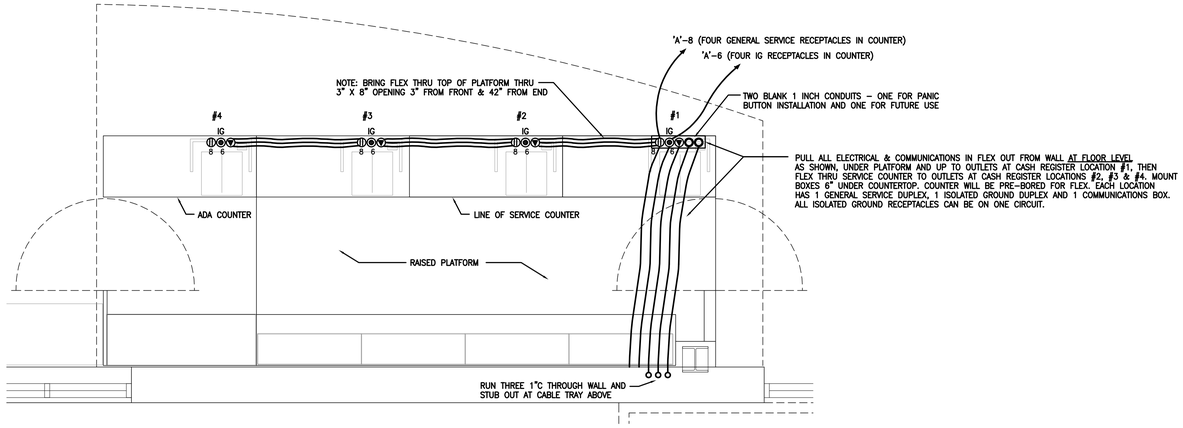


2 / E2.1 DETAIL - PLATFORM & SERVICE COUNTER

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

SCALE: 1/4" = 1'

0 1 2 4 6 8

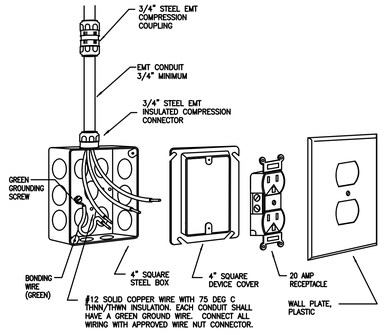
BRANCH CIRCUIT CONDUCTORS

FOR CIRCUITS WITH BRANCH CIRCUIT PROTECTION RATED 20 AMPERES OR LESS, CONDUCTORS SHALL BE SIZED AS FOLLOWS:

VOLTS	DISTANCE	HOME RUN	REMAINDER OF CIRCUIT
120/208	0 – 60'0"	#12	#12
	60'0" – 100'-0"	#10	#12
	100'-0" – 150'-0"	#8	#10

3 / E2.1 VOLTAGE DROP TABLE

SCALE: NONE



RECEPTACLES

1. DUPLEX RECEPTACLES FOR GENERAL USE SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE WITH GREEN HEXAGONAL GROUND SCREW, GROUND TERMINALS AND POLES INTERNALLY CONNECTED TO MOUNTING YOKE. 20 AMPERES, 125 VOLTS; DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE, AND NEMA CONFIGURATION 5-20R.

2. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES (GFCI) SHALL BE CAPABLE OF BEING INSTALLED IN A 2 3/4" DEEP OUTLET BOX WITHOUT ADAPTER, GROUNDING TYPE, UL RATED, RATED 20 AMPERES, 120 VOLTS, 60 HZ; WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING, WITH NEMA 5-15R CONFIGURATION AND 5 MILLIAMPS GROUND FAULT TRIP.

3. PANEL AND CIRCUIT NUMBERS SHALL BE LABELED ON ALL TRIM PLATES.

NOTES:

RECEPTACLE OUTLET BOXES: RECEPTACLES SHALL BE MOUNTED APPROXIMATELY 18 INCHES ABOVE THE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED. WHEN THE RECEPTACLE IS MOUNTED IN A MASONRY WALL THE BOTTOM OF THE OUTLET BOX SHALL BE IN LINE WITH THE BOTTOM OF A MASONRY UNIT.

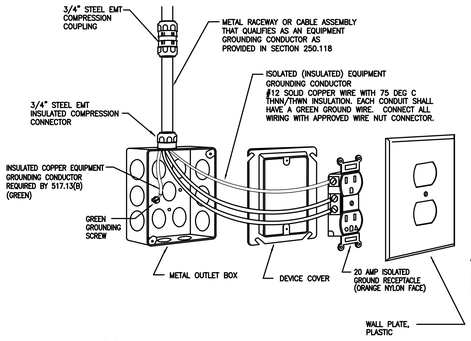
ALL CONDUIT JOINTS SHALL BE CUT SQUARE, REAMED SMOOTH AND DRAWN UP TIGHT.

INSTALL CONDUCTORS IN ALL RACEWAYS IN A NEAT AND WORKMAN MANNER. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

DEVICES SHALL BE MOUNTED TIGHTLY TO BOXES, AND ADJUSTED PLUM AND LEVEL.

4 / E2.1 TYPICAL RECEPTACLE DETAIL

SCALE: NONE



RECEPTACLES

1. DUPLEX RECEPTACLES FOR GENERAL USE SHALL BE 2 POLE, 3 WIRE, GROUNDING TYPE WITH GREEN HEXAGONAL GROUND SCREW, GROUND TERMINALS AND POLES INTERNALLY CONNECTED TO MOUNTING YOKE. 20 AMPERES, 125 VOLTS; DESIGNED FOR SIDE AND BACK WIRING WITH SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE, AND NEMA CONFIGURATION 5-20R.

2. GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLES (GFCI) SHALL BE CAPABLE OF BEING INSTALLED IN A 2 3/4" DEEP OUTLET BOX WITHOUT ADAPTER, GROUNDING TYPE, UL RATED, RATED 20 AMPERES, 120 VOLTS, 60 HZ; WITH SOLID-STATE GROUND FAULT SENSING AND SIGNALING, WITH NEMA 5-15R CONFIGURATION AND 5 MILLIAMPS GROUND FAULT TRIP.

3. PANEL AND CIRCUIT NUMBERS SHALL BE LABELED ON ALL TRIM PLATES.

NOTES:

RECEPTACLE OUTLET BOXES: RECEPTACLES SHALL BE MOUNTED APPROXIMATELY 18 INCHES ABOVE THE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED. WHEN THE RECEPTACLE IS MOUNTED IN A MASONRY WALL THE BOTTOM OF THE OUTLET BOX SHALL BE IN LINE WITH THE BOTTOM OF A MASONRY UNIT.

ALL CONDUIT JOINTS SHALL BE CUT SQUARE, REAMED SMOOTH AND DRAWN UP TIGHT.

INSTALL CONDUCTORS IN ALL RACEWAYS IN A NEAT AND WORKMAN MANNER. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

DEVICES SHALL BE MOUNTED TIGHTLY TO BOXES, AND ADJUSTED PLUM AND LEVEL.

5 / E2.1 ISOLATED GROUND RECEPTACLE DETAIL

SCALE: NONE

NOTES: (AS INDICATED ON THIS PLAN BY A NUMBER IN A ◯)

1. MOUNT SOLID BOTTOM CABLE TRAY CLOSE TO STRUCTURAL CEILING.
2. MOUNT RECEPTACLE AT AHU UNIT. PROVIDE 120V POWER TO DUCT DETECTOR AT AHU FROM RECEPTACLE CIRCUIT. DUCT DETECTOR TO BE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR – E.C. TO PROVIDE POWER ONLY.
3. JUNCTION BOX FOR POWER TO AUTOMATIC DOOR OPENER. PROVIDE CONDUIT AND CONTROL WIRING TO THE PUSH BUTTONS THAT OPERATE DOOR. LOCATIONS OF PUSH BUTTONS TO BE DETERMINED BY ARCHITECT.
4. RECEPTACLE FOR POWER TO COMPUTER HEAD END. VERIFY LOCATION WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.

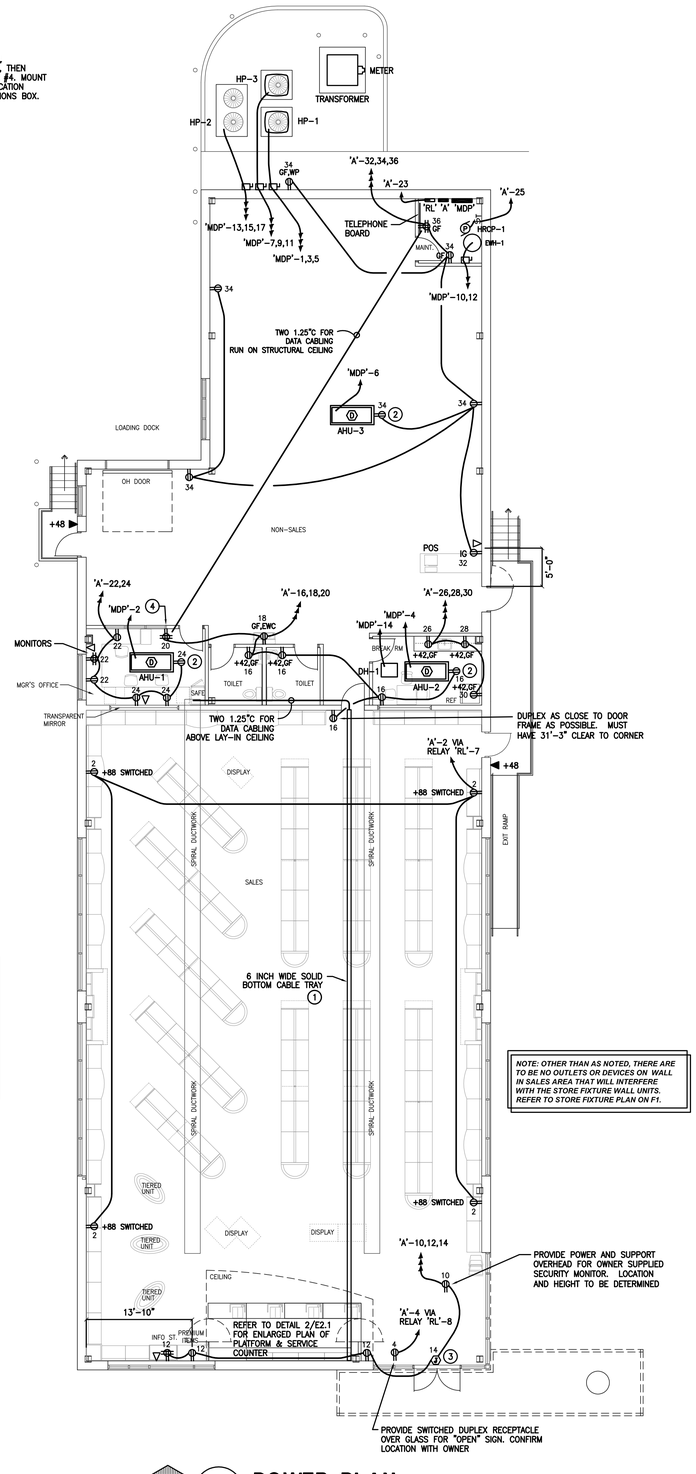
ELECTRICAL DISCONNECT SCHEDULE

		POWER V/P/HZ	HP/WATTS	MCA	MOCP	DISCONNECT
	AHU-1	115/1/60	–	10.9	15	FACTORY DISCONNECT SINGLE POINT POWER CONNECTION
	AHU-2	115/1/60	–	10.9	15	FACTORY DISCONNECT SINGLE POINT POWER CONNECTION
	AHU-3	115/1/60	–	10.9	15	FACTORY DISCONNECT SINGLE POINT POWER CONNECTION
	HP-1	208/3/60	–	21.2	35	60 AMP HD WP FUSED DISCONNECT BY E.C.
	HP-2	208/3/60	–	21.2	35	60 AMP HD WP FUSED DISCONNECT BY E.C.
	HP-3	208/3/60	–	21.2	35	60 AMP HD WP FUSED DISCONNECT BY E.C.
*	EF-1	115/1/60	128 W	–	–	FACTORY MOUNTED & WIRED DISCONNECT
*	EF-2	115/1/60	128 W	–	–	FACTORY MOUNTED & WIRED DISCONNECT
*	EF-3	115/1/60	128 W	–	–	FACTORY MOUNTED & WIRED DISCONNECT
	EWH-1 (WATER HEATER)	208/1/60	(2) 4500 NON-SIM	–	–	30 AMP HD FUSED DISCONNECT BY E.C.

* EF-1, EF-2 AND EF-3 SHALL BE CONTROLLED BY A WALL SWITCH IN RESPECTIVE ROOM

6 / E2.1 ELECTRICAL DISCONNECT SCHEDULE

SCALE: NONE



NOTE: OTHER THAN AS NOTED, THERE ARE TO BE NO OUTLETS OR DEVICES ON WALL IN SALES AREA THAT WILL INTERFERE WITH THE STORE FIXTURE WALL UNITS. REFER TO STORE FIXTURE PLAN ON F1.

1 / E2.1 POWER PLAN

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

SCALE: 1/8" = 1'

0 4 8 16 24 32

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225 NORTH MAIN STREET - SUITE 501
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PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY DETAILS THEREFROM MUST BE WITH THE WRITTEN CONSENT OF THE ARCHITECT

POWER PLAN

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ABC STORE & WAREHOUSE
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NORTH CAROLINA PROFESSIONAL SEAL 11207 ENGINEER DAVID S. SMITH 1/17/17

DESIGN ENGINEERING INC. PROFESSIONAL ENGINEERING FIRM C-657 NORTH CAROLINA

MCB, SRS DRAWN BY	SHEET NO.
DSS CHECKED BY	E2.1
DECEMBER 2016 DATE	OF 5
COMM. NO.	