#### GENERAL

- 1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED TO INSTALL A COMPLETE SYSTEM OF ELECTRICAL WORK AS INDICATED ON THE ELECTRICAL, MECHANICAL, PLUMBING, ARCHITECTURAL AND OTHER DRAWINGS
- 2. ALL EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW AND OF RECENT MANUFACTURE AND SHALL BE UL LISTED AND LABELED APPROPRIATE FOR THE AREA IN WHICH IT IS USED
- 3. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES OF THE JURISDICTION IN WHICH THE PROJECT IS LOCATED
- 4. THE ELECTRICAL CONTRACTOR SHALL APPLY FOR AND OBTAIN ALL THE PERMITS REQUIRED FOR THE ELECTRICAL WORK
- 5. THE ELECTRICAL CONTRACTOR AT HIS EXPENSE, SHALL HAVE AN INSPECTION MADE BY THE LOCAL ELECTRICAL INSPECTION DEPARTMENT OF THE ELECTRICAL INSTALLATION UNDER THIS CONTRACT AND SHALL DELIVER THE CERTIFICATE OF APPROVAL TO THE OWNER BEFORE RECEIVING THE FINAL PAYMENT
- 6. THE OWNER RESERVES THE RIGHT TO INSPECT AND TEST ANY PORTION OF THE EQUIPMENT OR INSTALLATION DURING THE PROGRESS OF ITS ERECTION. ANY DEVICE OR SYSTEM OR COMPONENT THAT FAILS THE TEST(S) OR PERFORMS BELOW SPECIFICATIONS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE ELECTRICAL CONTRACTOR SHALL TEST THE ENTIRE SYSTEM IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE WHEN THE WORK IS FINALLY COMPLETED TO INSURE THAT ALL PORTIONS ARE FREE FROM SHORT CIRCUITS OR GROUNDS AND ARE IN GOOD AND INTENDED WORKING CONDITIONS
- 7. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE ENTIRE ELECTRICAL INSTALLATION UNDER THIS CONTRACT FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER
- 8. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BID
- 9. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND THE DEVICE LOCATIONS MAY BE MOVED UPTO 20 FEET IN EITHER DIRECTION TO COORDINATE WITH ARCHITECTURAL, MECHANICAL, STRUCTURAL OR PLUMBING REQUIREMENTS AT NO ADDITIONAL COST TO OWNER
- 10. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL SUBMIT TO THE OWNER A SET OF "AS-BUILT" MARK-UP DRAWINGS, HARD COPY PRINTS AND AUTOCAD FILES IN VERSION 2008
- 11. THE CONTRACTOR SHALL COORDINATE WITH PEPCO THE UPGRADES TO THE EXISTING ELECTRIC SERVICE INCLUDING THE DEMOLITION OF EXISTING APPARATUS AND FURNISHING AND INSTALLING NEW CONDUIT, WIRE, METERING AND ALL NECESSARY DEVICES, COMPONENTS FOR A FULLY FUNCTIONAL SYSTEM

## SUBMITTALS: THE CONTRACTOR SHALL SUBMIT TO THE OWNER/ARCHITECT, SIX (6) COPIES OF THE MANUFACTURERS CATALOG CUT SHEETS. IDENTIFYING THE SPECIFIC FOLIPMENT TO BE FURNISHED TO THE PROJECT

- CATALOG CUT SHEETS, IDENTIFYING THE SPECIFIC EQUIPMENT TO BE FURNISHED TO THE PROJECT
- A. CONDUIT AND OUTLET BOXES
  B. WIRE
- C SWITCH
- C. SWITCHES
- D. LIGHTING FIXTURES
  D. PANELBOARDS
- E. MOTOR CONTROLLERS
  F. SWITCH BOARDS

### PRODUCTS:

- A. CONVENIENCE OUTLETS SHALL BE UL LISTED AND MEET THE REQUIREMENTS OF THE APPLICABLE FEDERAL SPECIFICATIONS
- DUPLEX RECEPTACLE: NEMA 5-20R, IVORY
  GFI: NEMA 5-20R WITH INTEGRAL GROUND FAULT TRIPS
- B. WALL SWITCHES SHALL BE 120/277V, 20A, QUICK MAKE QUICK BREAK, UL LISTED AND MEETING THE REQUIREMENTS APPLICABLE FEDERAL STANDARDS
- C. DEVICE PLATES SHALL BE STAINLESS STEEL, TYPE 303, SATIN FINISH. MULTIPLE DEVICES IN MULTI GANG INSTALLATIONS SHALL HAVE SINGLE COVER PLATE
- D. CONDUIT: INDOOR DRY LOCATIONS, GALVANIZED STEEL ELECTRICAL METALLIC TUBE (EMT), MINIMUM 1/2"
  TRADE SIZE INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.

TYPE AC, MANUFACTURED CABLE WITH INTEGRAL SEPARATE GROUNDING CONDUCTOR WHEN INSTALLED CONCEALED IN FINISHED SPACES. TYPE AC CABLE MAY BE INSTALLED EXPOSED IN MECHANICAL/ELECTRICAL ROOMS AND IN UNFINISHED SPACES

INDOOR WET LOCATIONS, PVC COATED STEEL CONDUIT WITH COMPATIBLE FITTINGS AND/OR PVC SCHEDULE 40 WITH COMPATIBLE FITTINGS WHEN APPROVED FOR THE APPLICATION IN NATIONAL ELECTRICAL CODE

UNDERGROUND, PVC CONDUIT WITH LONG SWEEP GALVANIZED RIGID CONDUIT ELBOWS TO TRANSITION TO ABOVE GROUND

E. WIRE: ANNEALED COPPER CONDUCTORS, #12 AWG MINIMUM, WITH THW PVC INSULATION AND JACKET RATED FOR 75 DEGREES C, WET OR DRY. THE WIRE SHALL BE UL LISTED AND LABELED

#12 AWG #10 AWG - SOLID CONDUCTOR UNLESS OTHERWISE NOTED ON PLANS #8 AWG AND LARGER - STRANDED CONDUCTOR

- #2 AWG GROUNDING CONDUCTOR SOLID OR STRANDED
- F. BOXES: OUTLET BOXES SHALL BE GALVANIZED PRESSED STEEL, MINIMUM 3 1/3 INCHES DEEP WITH INTERNAL VOLUME TO SUIT THE SIZE AND QUANTITY OF CONDUCTORS PER NATIONAL ELECTRICAL CODE
  - PULL BOXES SHALL BE GALVANIZED STEEL OR ALUMINUM WITH SCREW ATTACHED COVER PLATES
- G. LIGHTING FIXTURES: REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWINGS. CONTRACTOR SHALL COORDINATE THE VOLTAGE RATINGS OF THE FIXTURES TO MATCH THE CIRCUIT VOLTAGES TO WHICH THEY ARE CONNECTED PRIOR OR ORDERING THE MATERIAL
- H. MOTOR STARTERS: THE CONTRACTOR SHALL COORDINATE THE MOTOR STARTER AND DISCONNECT SWITCH RATINGS WITH THE MECHANICAL EQUIPMENT SHOP DRAWINGS. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER/ARCHITECT IMMEDIATELY OF ANY DISCREPANCY TO BE RESOLVED PRIOR TO ORDERING THE MATERIAL
- J. PANEL BOARDS: CIRCUIT BREAKER TYPE, WITH PLUG-IN BREAKERS RATED AS INDICATED IN THE PANEL BOARD SCHEDULES ON THE DRAWINGS. BREAKERS SERVING HVAC EQUIPMENT SHALL BE "HACR" RATED

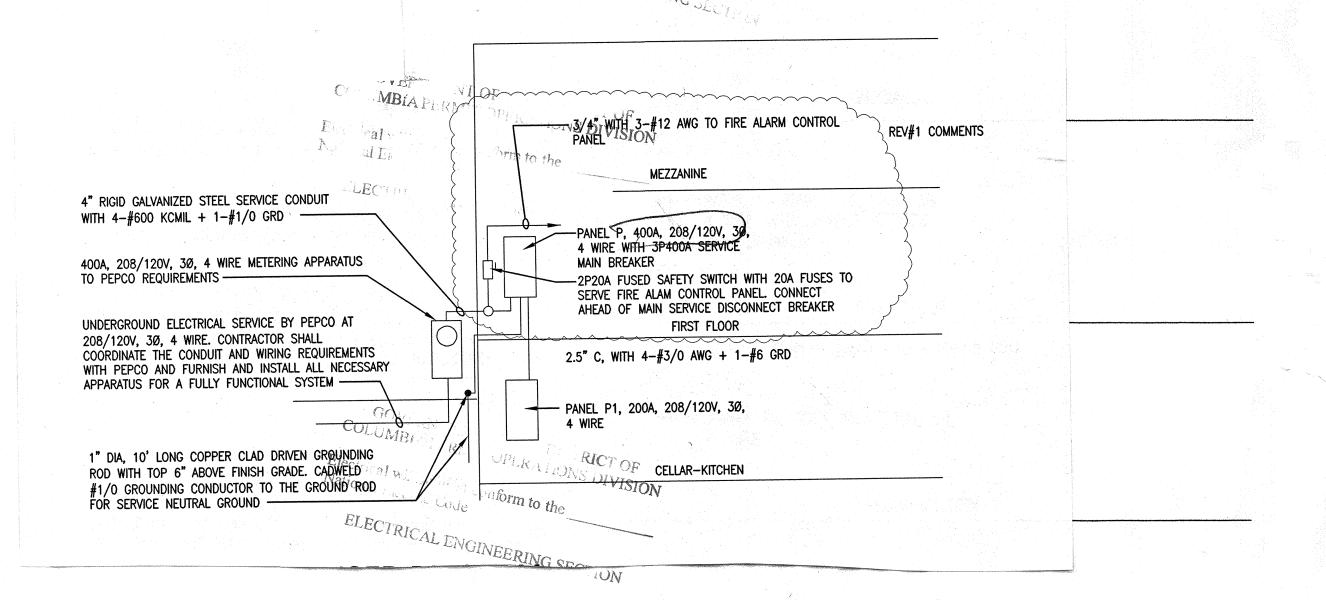
#### EXECUTION

A. ALL WIRING SHALL BE INSTALLED CONCEALED IN WALL OR CEILING SPACES IN FINISHED AREAS

ALL WIRING IN EXPOSED AREAS SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING LINES, SECURELY ATTACHED TO BUILDING SURFACES

RECESSED FLUORESCENT FIXTURES SHALL SUSPENDED FROM BUILDING STRUCTURE WITH MINIMUM TWO (2) GOV #8 STEEL WIRES AT DIAGONAL CORNERS, INDEPENDENT OF THE CEILING TILES AND OR GRIDS

THE CONTRACTOR SHALL PROVIDE TELEPHONE JACKS WITH 6 CONDUCTOR TWISTED PAIR 24 AWG WIRES TERMINATED IN NEW TELCO #110 TERMINAL BLOCKS. LABEL EACH TELEPHONE JACK AND RELATED TERMINATIONS



# POWER RISER DIAGRAM

NOT TO SCALE

PANEL P1						3P200A MAIN LUGS ONLY MIN. R 208/120V, 3ø, 4 WIRE FEED:						10,000 2.5° C,	· 1-#6 GRD					
					ΠNG: S	RI			REMARKS: CELLAR-		-BRANCH CIRCUIT PAN			NEL				
KT.		POLE	TRIP	WIRE PH	COND. SIZE	ØA	VA ØB	ØC			ØA	VA ØB		TRIP	WIRE PH	COND. SIZE	LOAD	C
1	EXIT, EMERG. LIGHTING (1/4)2 (PLOW)	1	20	#12	1/2"	800		<b>X////</b>	<b>1</b>	$H^{\smallfrown}$	5000		/////3	40	#8	1"	DISHWASHER	
3	LIGHTING-CELLAR-KITCHEN	1	20	#12	1/2"		1200		<b>7</b> +	╅┼╌		5000			#8			
5	LIGHTING-CELLAR-KITCHEN-TOILET	1	20	#12	1/2"			1200	ho +	╂╋╌			5000	1	#8			
7	L6 DISPOSER (EST 2 HP)	3	20	#12	1/2"	900		}////	<b>}</b>	╁┼╱	600		1////1	20	#12	1/2"	K8 WORKTOP REFRIGERATOR	
9		Ш		#12			900		孙	╂╌		950	1////1	20	#12	1/2"	K5 FOOD PREP TABLE	
11		W	1	#12	1			900	$\mathcal{V}_{+}$	╂╱			600 1	20	#12	1/2"	K3 WORKTOP REFRIGERATOR	
13	DUMB WAITER	11	20	#12	1/2"	1500			<b>**</b>	╫╌	1600		1	20	#12	1/2"	K4 ICE MAKER	
15	RECEPTACLE	1	20	#12	1/2"		180		<b>}</b>	╂╱		1000	1	20	#12	1/2"	WALK-IN LIGHTS, DE-FROST HTR	
17	SPARE	1	20	#12	enais.			7 -	$\gamma$	╂╱			1800 2	30	#10	1/2"	WALK-IN FREEZER COMP/EVAP	
19	K1 CONVECTION OVEN	2	30	#10	3/4"	3100			<b>7</b> +	₩	1800			V	#10	1		
21	T	V	1	#10	1		3100		<b>**</b>	╂╱		720	1////1	20	#12	1/2"	RECEPTACLES-KITCHEN	
23	K6 FOOD PREP TABLE	11	20	#12	1/2"			1040	<b>7</b> 4	₩			720 1	20	#12	1/2"	RECEPTACLES-CELLAR	
25	SPARE	1	20	_	_				<b>}</b>	₩	720		1////	20	#12	1/2"	RECEPTACLES-CELLAR	
27	K1 CONVECTION OVEN	2	30	#10	3/4"		3100		<b>}</b>	╂╱		720	1////	20	#12	1/2"	RECEPTACLES-CELLAR	
29	<b>T</b>	W	1	#10	V			3100	$\mathcal{M}$	₩			- 1	20		-	SPARE	
31	K3 REFRIGERATOR	11	20	#12	1/2"	600			<b>*</b>	╫╌	_		1////	20	-	-	SPARE	
33	K4 ICE MAKER /	11	20	#12	1/2"		1600		孙	╅┼╌		1 -	1////1	20		-	SPARE	
35	SPARE	11	20	_	-			-	$\mathcal{W}$	╂╈╱╌			- 1	20	-		SPARE	
37	SPACE	1=1		_		6000		X////	<b>}</b>	₩^	_		/////	400	4005		SPACE	
39		$\dagger \dagger \dagger$	T	-		/////	6000		孙	+		1 -	////	-		440		
41		₩	+	-		<b>/////</b>		6000	$\mathcal{H}$	╂		<b>Y////</b>	-  -	-		400		
	TOTALS			<u> </u>	L	6900	6980	6290	1	<u></u>	9720	8390	8120			-	TOTALS	encountries and the

GOVERNMENT OF THE DISTRICT OF COLUMBIA PERMIT OPERATIONS DIVISION

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**TAURAN** 

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10/28/2012

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