ELECTRICAL GENERAL NOTES

- 1. IT IS THE INTENT OF THESE DRAWINGS AND OTHER RELATED DOCUMENTS TO PRODUCE A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TESTS, AND OTHER SERVICES AS MAY BE NECESSARY TO ACHIEVE THIS PRODUCT. THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THE PLANS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON DISCREPANCIES ON THE PLANS WILL NOT BE CONSIDERED.
- 2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC 2014, IECC 2015, P.G. COUNTY SUBTITLE 9,) AND ALL LOCAL CODES HAVING JURISDICTION. ALL EQUIPMENT, DEVICES, AND MATERIAL SHALL BE LISTED WITH UNDERWRITERS LABORATORIES FOR ITS APPLICATION AS INSTALLED AND SHALL BEAR THE UL LABEL.
- 3. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY SUCH FEES AS MAY BE NECESSARY FOR INSPECTIONS, TESTS, AND OTHER SERVICES WHICH ARE REQUIRED FOR THE COMPLETION OF HIS WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE CONDITIONS OF THE PREMISES AND THE CHARACTER AND EXTENT OF WORK REQUIRED PRIOR TO SUBMISSION OF BIDS. ANY DIFFICULTIES IN COMPLYING WITH THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT BEFORE BIDDING.
- 5. ELECTRICAL PLANS ARE DIAGRAMMATIC. DO NOT SCALE DRAWINGS.
- 6. CONSULT PLANS OF ALL OTHER TRADES FOR COORDINATION AND FOR RELATED AND ADJOINING WORK.
- 7. CONSULT ARCHITECTURAL AND STRUCTURAL PLANS AND DETAILS FOR CONSTRUCTION TYPE, HEADROOM, ROOM FINISHES, CEILINGS, ETC.
- 8. SEE REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
- 9. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY SPACING THE CIRCUITS IN THE PANEL AND BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS.
- 10. SHOP DRAWINGS FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, DEVICES AND MATERIALS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE DELIVERY TO THE JOB SITE. EQUIPMENT, FIXTURES, DEVICES, AND MATERIAL DELIVERED TO THE JOB SITE OR INSTALLED PRIOR TO APPROVAL OF THE SHOP DRAWINGS, AND FOR WHICH THE SHOP DRAWINGS ARE SUBSEQUENTLY REJECTED, SHALL BE REPLACED WITH AN APPROVED ITEM AT NO ADDITIONAL COST TO THE OWNER.
- 11. CONTRACTOR SHALL VERIFY WIRE SIZES, C/B AND FUSE RATINGS FOR ALL HVAC EQUIPMENT, AND BRING TO THE ATTENTION OF THE ARCHITECT ANY DISCREPANCIES AFFECTING THE WORK PRIOR TO PROCEEDING.
- 12. ALL WORK SHALL BE DONE AT SUCH TIMES AND IN SUCH A MANNER AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF ALL RELATED OR AFFECTED SYSTEM. ALL POWER OUTAGES, FIRE ALARM SHUT DOWNS, ETC. SHALL BE COORDINATED WITH OWNER.
- 13. CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED.
- 15. HORSEPOWER RATINGS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS, CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- 16. CONTRACTOR SHALL NOTE U.L. LABELS ON PACKAGED TYPE MECHANICAL EQUIPMENT. IF U.L. LABEL ON MECHANICAL EQUIPMENT OT ACTUALLY BE INSTALLED CALLS FOR THE OVERCURRENT PROTECTIVE DEVICE TO BE FUSES, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A FUSED DISCONNECT SWITCH WITH PROPER SIZE FUSES AT THE SWITCH LOCATION INDICATED ON DRAWINGS AT NO ADDITIONAL CHARGE TO THE OWNER.
- 17. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR OR CEILING CONTRACTOR TO INSURE THAT ALL RECESSED LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- 18. LIGHTING FIXTURES INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED DIRECTLY FROM THE BUILDING STRUCTURE. PER P.G. COUNTY SUBTITLE 9, SECTION 9-108.02
- 19. THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OF NOT.
- 20. ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OF FISH TAPE/CORD.
- 21. ALL CONDUCTORS, RACEWAYS AND CABLES SHALL BE CONCEALED IN CEILING OR WALL UNLESS INDICATED OTHERWISE.

- 22. OPENINGS OR CORE DRILLS IN EXISTING BUILDING STRUCTURE FOR PASSAGE OF CONDUITS/CABLES SHALL NOT BE CUT UNTIL THE CONTRACTOR HAS ASKED FOR AND RECEIVED WRITTEN APPROVAL FROM THE ARCHITECT AND OWNER.
- 23. THE LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH ALL ACCESSORIES (INCLUDING LAMPS) BY THE ELECTRICAL CONTRACTOR.
- 24. SYMBOLS SHOWN ON THIS SHEET ARE STANDARD SYMBOLS AND MAY NOT NECESSARILY ALL BE APPLICABLE TO THIS PROJECT.
- 25. THE CONTRACTOR SHALL GUARANTEE ALL HIS WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE BY OWNER.
- 26. ALL PENETRATIONS OF FLOOR AND WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH BOCA, NEC, AND NFPA.
- 27. CONDUCTORS SHALL BE INSTALLED CONTINUOUS BETWEEN DEVICES, WITH SPLICES LOCATED ONLY IN JUNCTION BOXES OR IN CABINETS. CONDUCTORS SHALL BE OF SUFFICIENT LENGTH TO REACH THE FARTHEST TERMINAL IN PANELS. A MINIMUM OF 6" LOOPS SHALL REMAIN WHERE CONNECTIONS OF TAPS ARE TO BE MADE IN BRACH CIRCUIT WIRING.
- 28. PROVIDE AN UPDATED TYPEWRITTEN PANEL DIRECTORY IN EACH PANEL AFTER COMPLETION OF WORK.
- 29. ELECTRICAL CONTRACTOR SHALL PROVIDE AS BUILT DRAWINGS AND ALL MANUFACTURERS DATA AND WARRANTY LITERATURE AT THE COMPLETION OF THE CONTRACT.

LIGHT FIXTURES

- 1. BALLAST FOR LIGHTING FIXTURES SHALL OPERATE THE SPECIFIED LAMPS. ELECTRONIC BALLAST SHALL HAVE A POWER FACTOR GREATER THAN .95, LESS THAN 10% HARMONIC DISTORTION, AND 32 WATTS PER LAMP OR LESS INPUT POWER.
- 2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SPARE LAMPS EQUAL TO 15% OF THE TOTAL OF ALL LIGHTING FIXTURES INSTALLED ON THE PROJECT.

WIRING DEVICES

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL MOUNTING HEIGHTS FOR SWITCHES, RECEPTACLES, WALL MOUNTED LIGHT FIXTURES, AND TELEPHONE OUTLETS BY THE USE OF THE ARCHITECTURAL AND ENGINEERING DRAWINGS. SHOULD ANY CONFLICTS BECOME APPARENT THE CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO INSTALLATION. IN THE WORK IS NOT COORDINATED ANY REMEDIAL WORK SHALL BE REDONE AT NO ADDITIONAL COST TO THE OWNER.
- 2. PROVIDE DUPLEX, SPECIFICATION GRADE RECEPTACLES 2 POLE, 3 WIRE GROUNDING WITH GREEN HEXAGONAL EQUIPMENT GROUND SCREWS, GROUND TERMINALS AND POLES INTERNALLY CONNECTED TO MOUNTING YOKE, 20 AMPERES, 125 VOLTS, WITH METAL PLASTER EARS, SIDE WIRING, NEMA CONFIGURATION 5-20R.
- 3. SWITCHES, 20 AMPS, 120/277 VOLTS, WITH MOUNTING YOKE INSULATED FROM MECHANISM, EQUIPPED WITH PLASTER EARS, SWITCH HANDLE, AND SIDE WIRED SCREW TERMINALS.
- 4. ALL SWITCHES, RECEPTACLES AND ASSOCIATED FACE PLATES SHALL BE OF WHITE COLOR. PREFERRED MANUFACTURER IS LUTRON.
- 5. ALL DEVICES INSTALLED IN THE LOCATION EXPOSED TO AMBIENT CONDITIONS SHALL BE WEATHERPROOFED.

EQUIPMENT SPECIFICATIONS

<u>RACEWAY</u>

- 1. MINIMUM SIZE OF THE CONDUIT SHALL BE 1/2".
- 2. PROVIDE FLEXIBLE CONDUIT FOR MOTOR CONNECTION, AND FOR OTHER ELECTRICAL EQUIPMENT CONDITION, WHERE SUBJECT TO MOVEMENT AND VIBRATION.
- 3. PROVIDE LIQUID TIGHT FLEXIBLE CONDUIT FOR CONNECTION OF MOTOR AND FOR OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT AND VIBRATION, AND ALSO WHERE SUBJECT TO ONE OR MORE OF THE FOLLOWING CONDITIONS, UNLESS NOTES OTHERWISE:
- A. MOIST AND HUMID ATMOSPHERE WHERE CONDENSATE CAN BE EXPECTED TO ACCUMULATE.
- B. CORROSIVE ATMOSPHERE
- C. SUBJECT TO DRIPPING OIL, GREASE OR WATER.
- 4. ALL CONDUITS SHALL BE GROUNDED PER NEC. CONDUITS ENTERING THE OUTLET BOXES, PANEL CABINETS, ETC. MUST BE FITTED WITH A DOUBLE LOCKNUT AND BUSHING.
- 5. PROVIDE RIGID STEEL, THREADED, THICK WALL CONDUIT, GALVANIZED OR EMT FOR ALL PANEL FEEDERS, AND ALL EXPOSED WIRING IN UNFINISHED AREAS.
- ALL WIRE RACEWAYS IN OR PASSING THROUGH CONCRETE WALLS, SLABS, OR UNDERGROUND SHALL BE GALVANIZED RIGID STEEL THREADED CONDUIT.

APPLICABLE CODES

1. NEC 2014, 2015 IECC AND PRINCE GEORGE'S COUNTY SUBTITLE-9.

WIRES AND CABLES

- ALL WIRE AND CABLE SHALL BE COPPER WITH THHN/THWN INSULATION AND ALL WIRE SIZES ARE BASED ON COPPER CONDUCTORS WITH 75°C INSULATION UNLESS INDICATED OTHERWISE. ALL CONNECTORS, LUGS, ETC. SHALL BE LISTED FOR 75°C.
- 2. PROVIDE WIRING NOT SMALLER THAN #12 AWG FOR THE POWER DISTRIBUTION, AND NOT SMALLER THAN #14 AWG FOR THE FIRE ALARM SYSTEM.
- 3. ALL CIRCUITS 120/208 VOLT OVER 100 FEET AND ALL 277/480 VOLT CIRCUITS OVER 200 FEET FROM PANEL TO FIRST OUTLET SHALL HAVE CONDUCTORS ONE SIZE LARGER THAN NORMALLY REQUIRED WHETHER INDICATED ON PANEL SCHEDULE OR NOT.
- 4. CONDUCTORS INSTALLED UNDERGROUND OR IN THE WET LOCATIONS SHALL BE U.L. LISTED PER NEC, AND SHALL BE SUITABLE FOR WET LOCATIONS.
- 5. WIRING METHOD SHALL COMPLY WITH NEC 518.4 FOR ASSEMBLY OCCUPANCIES.

ELECTRICAL BOXES AND FITTINGS

- 1. ALL BOXES AND FITTINGS SHALL BE OF CODE-GAUGE STEEL.
- 2. JUNCTION AND PULL BOXES: PROVIDE GALVANIZED CODE-GUAGE STEET STEEL JUNCTION AND PULL BOXES WITH SCREW-ON COVER OF TYPES, SHAPES AND SIZES TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION, WITH WELDED SEAMS AND EQUIPPED WITH STAINLESS STEEL NUTS, SCREWS, AND WASHERS.
- 3. PROVIDE WEATHERPROOF OUTLETS FOR INTERIOR AND EXTERIOR LOCATIONS EXPOSED TO WEATHER OR MOISTURE.
- 4. ALL PULL BOXES SHALL BE FABRICATED FROM #12 OR HEAVIER GAUGE GALVANIZED STEEL AS REQUIRED BY THE NEC, AND SHALL BE EQUIPPED WITH SCREW FASTENED COVER.

FIRE ALARM NOTES:

- 1. ALL DEVICES AND EQUIPMENT FOR THIS SYSTEM SHALL BE LISTED BY THE UNDERWRITER'S LABORATORIES, INC. (U.L.), BEAR THE U.L. LABEL AND SHALL CONFORM TO THE APPLICABLE SECTIONS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 72 AND 90A.
- 2. THE INSTALLATION SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF NFPA, THE NATIONAL ELECTRIC CODE (NEC), ALL STATE AND LOCAL CODES AND ADA REQUIREMENTS.
- 3. UPON COMPLETION, THE SYSTEM SHALL BE THOROUGHLY TESTED BY THE CONTRACTOR TO ASSURE PROPER INTERFACING OF ALL COMPONENTS.
- 4. ALL WIRING FOR THE FIRE DETECTION AND ALARM SYSTEM SHALL BE RUN IN CONDUIT BY THE CONTRACTOR. ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED BY THE CONTRACTOR OR STENCILED FOR DISTINCT IDENTIFICATION. ALL CONDUIT, DEVICE MOUNTING BOXES, JUNCTION BOXES, AND PANELS SHALL BE SECURELY FASTENED BY THE CONTRACTOR WITH APPROPRIATE FITTINGS TO INSURE A POSITIVE GROUND THROUGHOUT THE ENTIRE SYSTEM.
- 5. ALL CONNECTIONS TO PANELS, DEVICES, AND DETECTORS SHALL BE MADE WITH CRIMP TYPE SPADE TERMINAL CONNECTORS. SPLICES IN STATION CIRCUITS SHALL BE MADE ONLY IN JUNCTION BOXES AND SHALL BE CRIMP CONNECTED.
- 6. ALL WIRING SHALL BE CHECKED AND TESTED BY THE CONTRACTOR TO INSURE THE SYSTEM IS FREE FROM GROUNDS, OPENS, AND SHORTS.
- 7. THE INSTALLATION AND FINAL CONNECTIONS BY THE CONTRACTOR OF ALL COMPONENTS AND DEVICES SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF THE SYSTEM MANUFACTURER'S TECHNICAL STAFF.

ELECTRICAL SYMBOLS

- FLUORESCENT OR INCANDESCENT LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE FOR TYPE AND MOUNTING.
- WALL MOUNTED DUAL HEAD BATTERY POWERED EMERGENCY LIGHTING
- FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.

 SINGLE FACE EXIT LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE
- DOUBLE FACE EXIT LIGHTING FIXTURE. SEE LIGHTING FIXTURE SCHEDULE.
- \$ SINGLE POLE TOGGLE SWITCH 20 AMP, 120 VOLT, M.H. 48" AFF, UNLESS NOTED OTHERWISE.
- \$3 THREE WAY TOGGLE SWITCH 20 AMP, 120 VOLT, M.H. 48" AFF, UNLESS NOTED OTHERWISE.
- \$M MOTOR RATED SWITCH WITH THERMAL OVERLOAD PROTECTION, MOUNT
- **O LIGHT SWITCH WITH BUILT-IN OCCUPANCY SENSOR.
- \$OD LIGHT SWITCH WITH BUILT-IN OCCUPANCY AND DAYLIGHT SENSOR.
- OS CEILING MOUNTED OCCUPANCY SENSOR
- DL DAY LIGHT SENSOR.
- (J) JUNCTION BOX, CEILING OR WALL MOUNTED.
- → SIMPLEX NON-GFI RECEPTACLE.
- DUPLEX GROUNDING TYPE RECEPTALCE 20 AMP, 120 VOLT, NEMA 5-20R, M.H. 18" AFF, UNLESS NOTED OTHERWISE.
- DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE 20 AMP, 120 VOLT, NEMA 5-20R, M.H. 18" AFF, UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTER PROTECTION 20 AMP, 120 VOLT, NEMA 5—20R, M.H. 42" AFF, UNLESS NOTED OTHERWISE.
- FLUSH FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE AND TELEPHONE/DATA OUTLET. FIELD COORDINATE EXACT LOCATION WITH THE FURNITURE LAYOUT PRIOR TO ANY INSTALLATION OR ROUGH—IN. PROVIDE WITH CARPET TRIM RING WHERE REQUIRED.
- TELEPHONE/DATA OUTLET WALL MOUNTED, M.H. 18" AFF, UNLESS NOTED OTHERWISE. PROVIDE 1" EC FROM THE OUTLET TO 6" ABOVE FINISHED CEILING AND TERMINATE WITH 90" BEND AND INSULATED BUSHING.
- H HAND DRYER.
- FIRE ALARM AUDIO/VISUAL DEVICE WITH EMERGENCY VOICE/ALARM COMMUNICATIONS. THE ANNOUNCEMENT MUST BE PRE-RECORDED.
- V FIRE ALARM VISUAL DEVICE.
- SD SMOKE DETECTOR.
- (HD) HEAT DETECTOR.
- F FIRE ALARM PULL STATION.

EMPTY CONDUIT

HORSE POWER

GND

- PANELBOARD
- DISCONNECT SWITCH, AMP, VOLT, POLES AND FUSING AS NOTED ON DRAWING.
- ELECTRIC MOTOR CONNECTION HORSEPOWER AS NOTED.
- M POWER COMPANY METER, RATING AS INDICATED ON DRAWING.
- T DRY TYPE TRANSFORMER, RATING AS INDICATED ON DRAWING.
- HOMERUN WIRING WITH A DEDICATED EQUIPMENT GROUND WIRE TO THE REFERENCED PANELBOARD. ARROW HEADS AND NUMERALS INDICATE THE CIRCUIT NUMBERS.

ELECTRICAL ABBREVIATIONS

- IG ISOLATED GROUND A AMP AFF ABOVE FINISHED FLOOR KVA KILOVOLT AMPS KW KILOWATTS AHU AIR HANDLING UNIT AMPS INTERRUPTING CAPACITY NEW N NEC NATIONAL ELECTRICAL CODE ALUMINUM AUTOMATIC TRANSFER SWITCH NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION CIRCUIT BREAKER NFPA NATIONAL FIRE PROTECTION CABINET HEATER ASSOCIATION CKT CIRCUIT NFSS NON-FUSED SAFETY SWITCH COPPER, COMPRESSOR UNIT POLE DOWN PH PHASE EXISTING REMOVE
 - EXHAUST FAN

 FUSED SAFETY SWITCH

 GROUND FAULT INTERRUPTER

 GROUND

 EXHAUST FAN

 UL

 UNDERWRITERS LABORATORY

 UON

 UNLESS OTHERWISE NOTED

 V

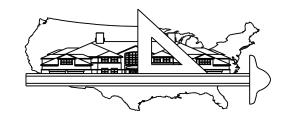
 VOLT

 VA

 VOLTAMPS
 - W WATTS
 WH WATER HEATER
 WP WEATHER PROOF
 XFMR TRANSFORMER

RELOCATE

RE



Design America Engineering, Inc.

MEP Consulting Engineers
14080 Red River Drive
Centreville, Virginia 20121
ALFONS Cell: 703-909-6974
Fax: 703-222-6062
SAM Cell: 571-220-3239
Fax: 703-222-3591

FE Proje	ect Number:	18-012
ITEM	DESCRIPTION	DATE

Project/Location:

PROPOSED
DOCTOR'S
OFFICE
208 Main Street
Gaithersburg MD

()	W	ne	I

DR. RUPINDER SINGH

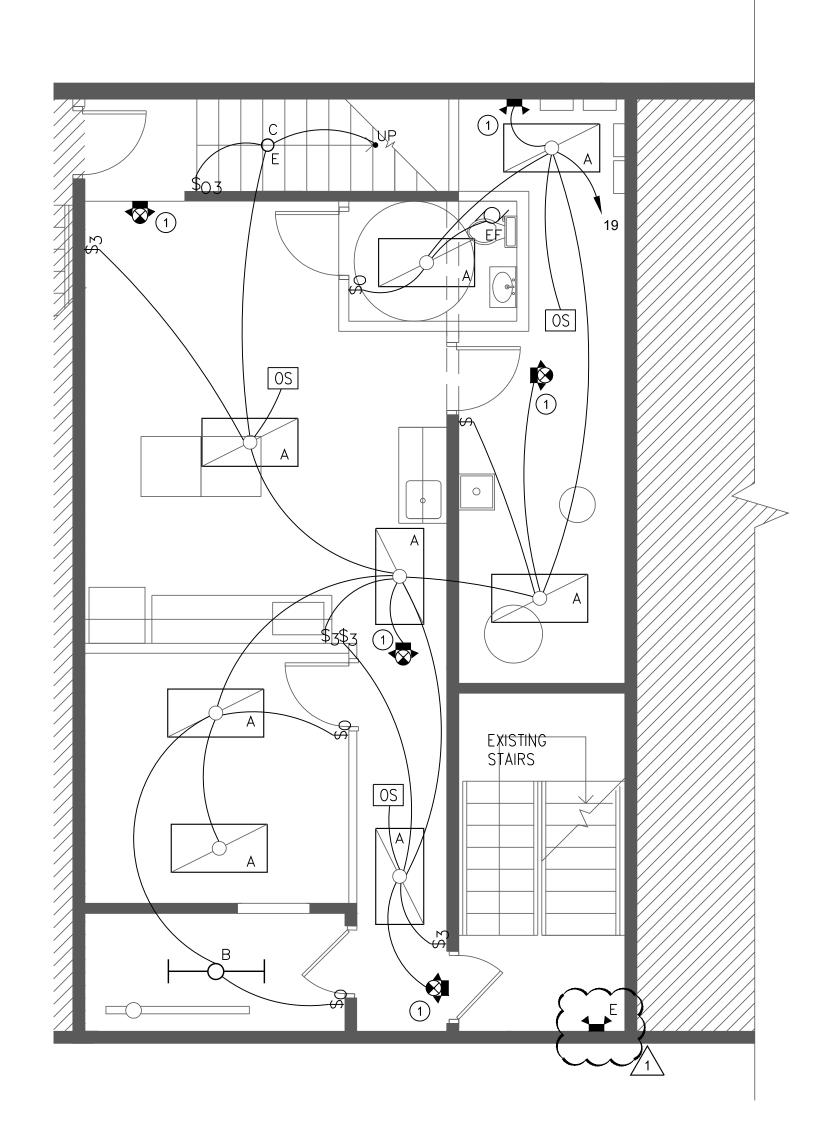
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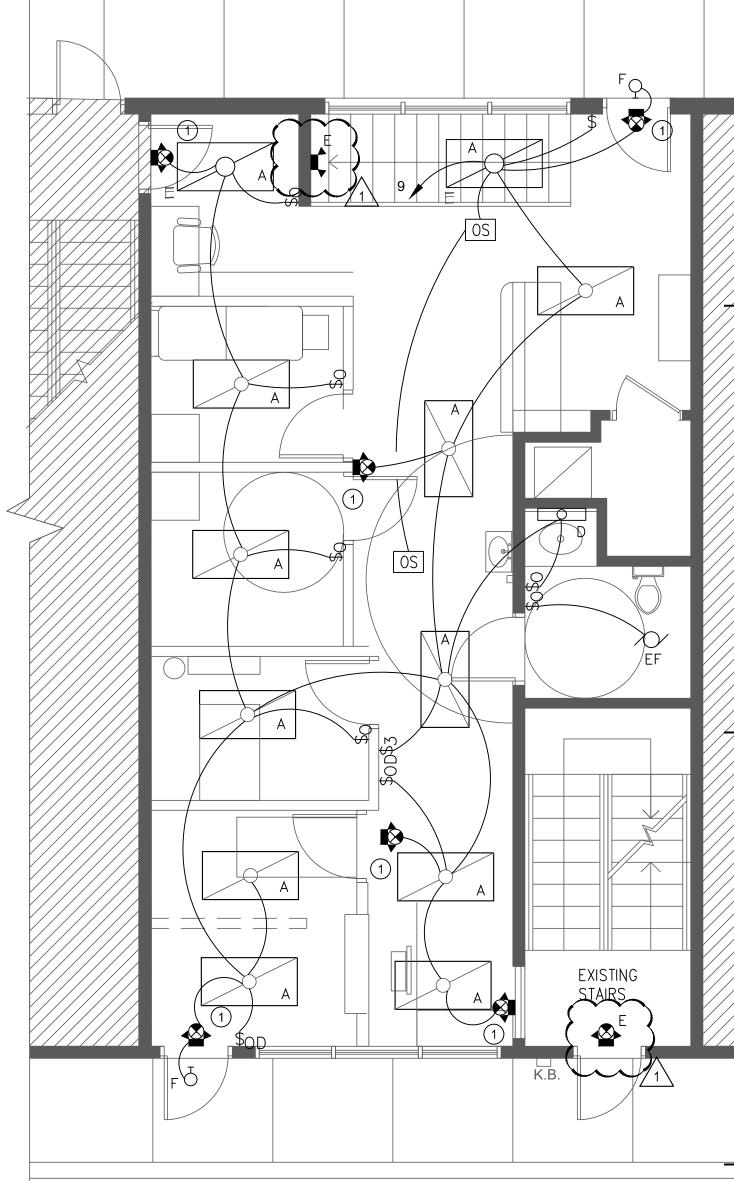
08/08/2019.

ELECTRICAL COVER SHEET

Sheet Number:



BASEMENT FLOOR LIGHTING PLAN scale: 1/4" = 1'-0"



GROUND FLOOR LIGHTING PLAN SCALE: 1/4" = 1'-0"

LIGHTING KEYED NOTES

1) CONNECT AHEAD OF THE SWITCH.





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/	FE Proje	ect Number:	18-012
/	ITEM	DESCRIPTION	DATE
/	A	PERMIT	10.15.18
	1	REV 1-COG COMMENTS	11.15.18
/			
/			

Project/Location:

PROPOSED
DOCTOR'S OFFICE
208 Main Street
Gaithersburg MD

Owner:

DR. RUPINDER SINGH



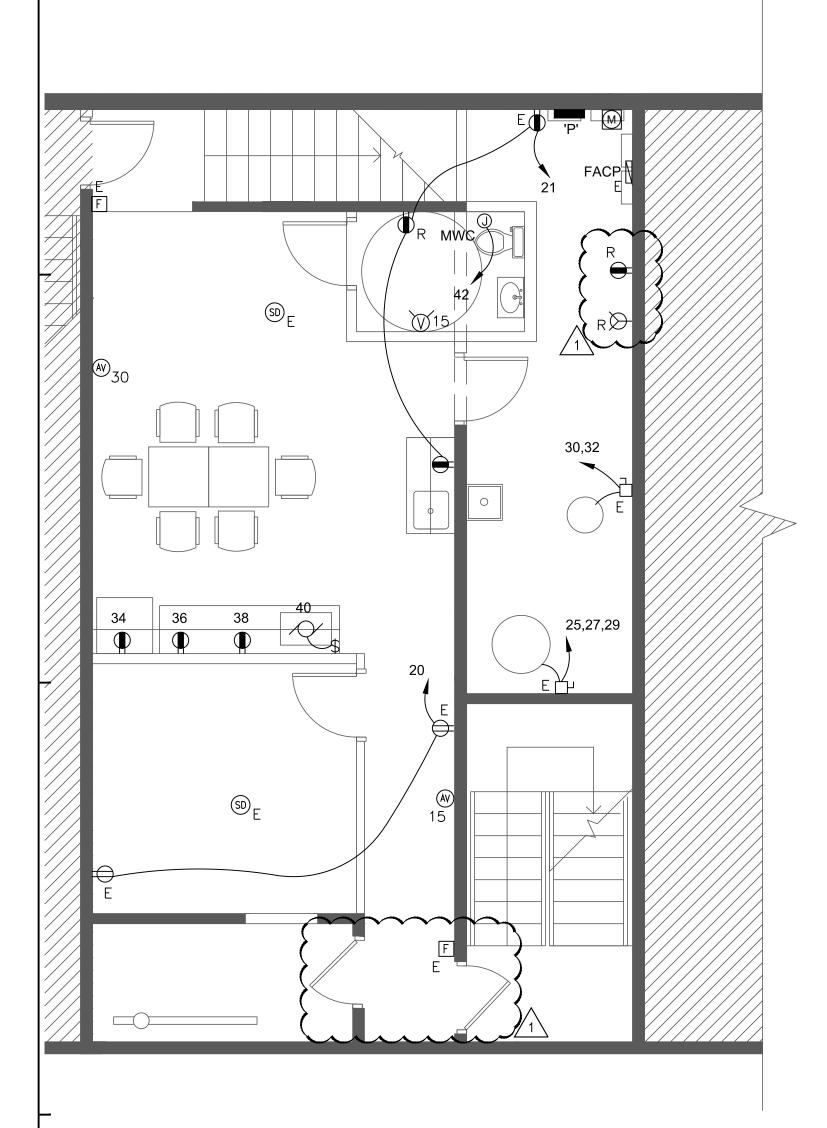
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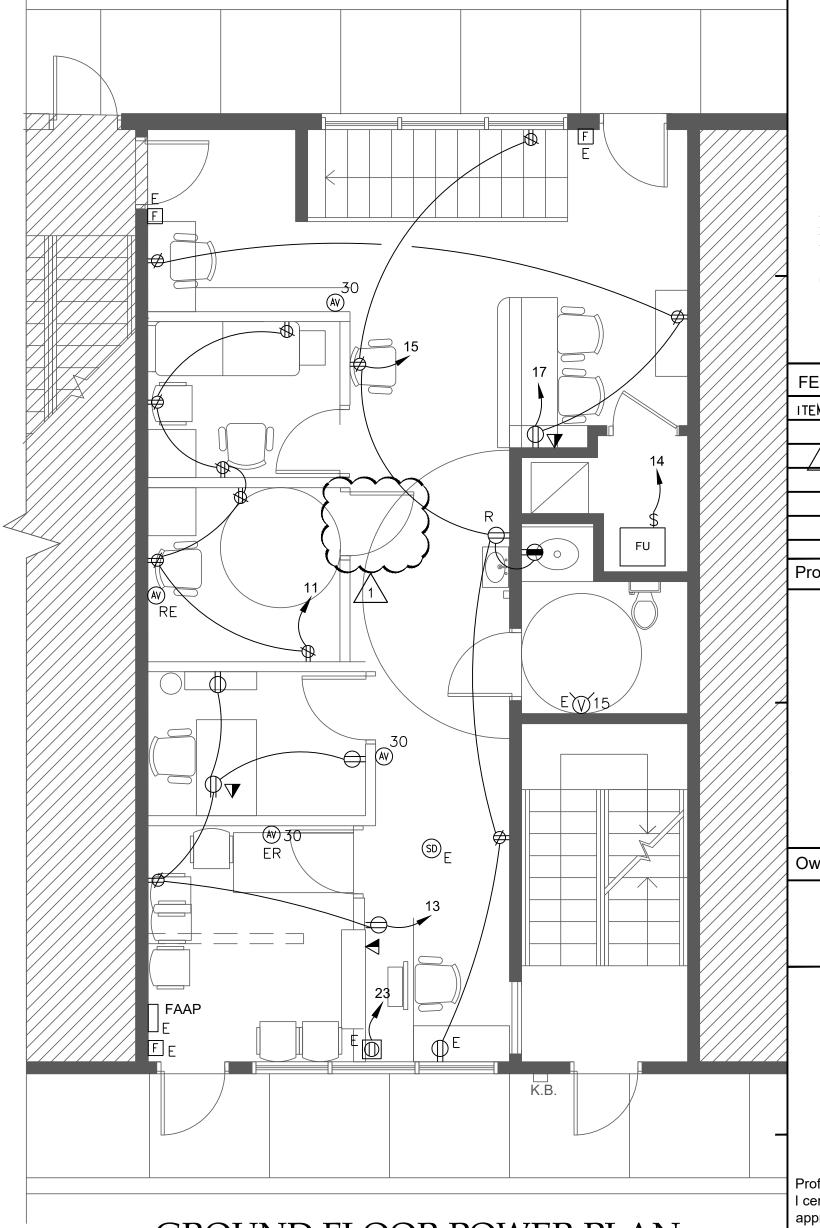
BASEMENT & GROUND FLOOR LIGHTING PLANS

Sheet Number:

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BASEMENT FLOOR POWER PLAN SCALE: 1/4" = 1'-0"



GROUND FLOOR POWER PLAN

SCALE: 1/4" = 1'-0"

LEGEND



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 FE Project Number:
 18-012

 ITEM
 DESCRIPTION
 DATE

 A
 PERMIT
 10.15.18

 1
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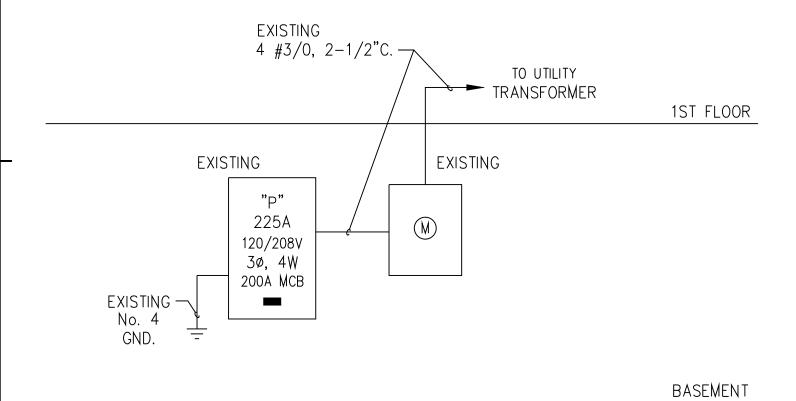
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BASEMENT & GROUND FLOOR POWER PLANS

Sheet Number:

E3.0



POWER RISER DIAGRAM NOT TO SCALE

BRAN	VCH	CIRCL	JIT S	CHEC)ULE
CIRCUIT BREAKER	GROUND	1 OR 2	2 POLE	3 P	OLE
(AMPS)	WIRE	CONDUIT	WIRE	CONDUIT	₩IRE
15A, 20A	#12	3/4"	#12	3/4"	#12
25A, 30A	#10	3/4"	#10	3/4"	#10
35A, 40A	#10	3/4"	#8	1"	#8
45A, 50A	#10	3/4"	#8	1"	#8
60A	#8	1"	#6	1"	#6
70A	#8	1"	#4	1-1/4"	#4
80A	#8	1-1/4"	#4	1-1/4"	#4
90A	#8	1-1/4"	#2	1-1/4"	#2
100A	#8	1-1/4"	#2	1-1/4"	#2

^{1.} APPROVED MC CABLES WITH GROUND MAY BE USED FOR BRANCH CIRCUIT CONNECTIONS IN LIEU OF CONDUITS.

					Ρ	A١	١E	Ľ	5	CH	ΗE	D	UL	Ε				
PANEL: P										/ 20								PHASE: 3
POLE SPACES: 42										SUF								WIRE: 4
LOCATION: BASEMEN	IT U	TILIT	Y RÌ	M.						OLTS		_						EXISTING 22 KAIC
				CIR/	'RKR							-1	CIR /	BKR	κW	/РН/	∆SF	
LOAD	A	Б		POLE			RΕ	NO	HAS	CIR. NO.	₩IR			TRIP		В.	C	LOAD
FACP	0.5			1	15			1	Ā	2		Ť	1	20	_		Ū	SPARE
LIGHTING 2ND FLOOR		0.8		1	20	EXI:	ST	3	В	4	EXI:	ST	2	30		2.5		CU 2ND FLOOR
LIGHTING 2ND FLOOR			1.0	1	20			5	С	6			_	_			2.5	•
LIGHTING 2ND FLOOR	0.9			1	20	•		7	Α	8			1	20	1.0			FURNACE 2ND FLOOR
LIGHTING 1ST FLOOR		0.42		1	20	ŊĘ	W	9	В	10			2	50		3.5		CU 1ST FLOOR
RECEPT'S-EXAMINATION 1,2			1.2	1	20			11	Ċ	12			_	_			3.5	V
REC'S OFF, WAITING, REC'S	1.0			1	20			13	1 >	14		_	1	20	1.0	1.0		FURNACE 1ST FLOOR
REC'S RECEPTION, HALL, BATH		1.0		1	20			15	В	16		\perp	1	20		1.2	4 -	RECEPTACLES 2ND FLOOR
RECEPTACLES STAFF LAB			1.5	1	20			17	\Box	18	_ ▼	\perp	1	20			1.2	RECEPTACLES 2ND FLOOR
	0.3			1	20			19	Ą	20	NET	M	\	20	1.0			REG'S BONT CORRECORD RW
REC'S BSMT TOI,UTIL'Y,BREAK		0.6		1	20			21	В	22	.=		1	20		_	41.5	SPARE
RECEPTACLE WINDOW			1.2	1	20	•		23	\cap		^EX!	51	<u>~</u>	20		\triangle	1.0	RECEPTABLES 2ND FLOOR
H W H	2.0			3	30	EXI	<u>ST</u>	25	Α	26		\perp	1	15	8.0			RECEPTACLES 2ND FLOOR
		2.0		_				27	В	28			1	20		1.0		SUMP PUMP
<u> </u>			2.0		_			29	Ċ	30			2	30			1.5	SEWAGE EJECTOR
SUB PANEL 3RD FLOOR	5.0			3	60	Ш		31	Α	32			_		1.5			
		5.0		_	_			33	В	34	ΝĘ١	\mathbb{V}	1	20		0.8		REFRIGERATOR
+			5.0	_	_	•		35	С	36		_	1	20			1.2	COFFEE
SPACE	_			_	_			37	Α	38		_	1	20	1.2			MICROWAVE
SPACE		_		_	_			39	В	40		_	1	20		0.8		DISPOSAL
SPACE			_	–	_			41	Α	42	₩		1	20			10.5	MWC EJECTOR PUMP

NOTE: ENTIRE BUILDING IS OCCUPIED BY ONE OWNER.

DEMAND LOAD:

61.2 KVA

			LIGHTIN	<u> </u>	FIXTURE	<u>S</u>	CHEDU	JLE	
AFF BFC C DL	BELC CEILI	/E FINISHED FLOOR DW FINISHED CEILING NG N LIGHT	EB EMERGE F FLUORE PL POLE	NCY SCEN	BATTERY	II N	NC INCAN MH METAL MV MERCI	DESCENT . HALIDE JRY VAPOR	R RECESSED S SURFACE U UNIVERSAL W WALL
1	TURE YPE	MANUFACTURER	CATALOG No.	No.	LAMP TYPE	VOLTS	MOUNTING	LOCATION	REMARKS
Α	0	LITHONIA	LBL44000LM80 CRI35KNODIM-MVOLT	1	33₩ LED	120	S	AS SHOWN	2'x4' LED LIGHT
В	⊢⊶	LITHONIA	ZLINL483000LMFST120 35K80CRI	1	33₩ LED	120	S	SPRINKLER	4' LENSED LED
С	0	EXISTING	-	1	9W LED	120	S	STAIRS	GLOBE
D	0	EXISTING	-	1	17₩ LED	120	S	OVER MIRROR	2' FLUORESCENT
F	Ю	EMERGILITE	BZLUXACSDCWP	1	18₩ LED	120	S	EXTERIOR	w/BUILT-IN BATTERY & PHOTO CELL
EX	₩	LITHONIA	ECBRLEDM6	1	3₩ LED	120	S	AS SHOWN	EMERG. EXIT & WALL PACK
EM		LITHONIA	ELM2LED	1	3₩ LED	120	S	AS SHOWN	EMERGENCY WALL PACK



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14080 Red River Drive
Centreville, Virginia 20121
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Fax: 703-222-3591

FE Proje	ect Number:	18-012
ITEM	DESCRIPTION	DATE
Α.	PERMIT	10.15.18
1	REV 1-COG COMMENTS	11.15.18

Project/Location:

PROPOSED
DOCTOR'S OFFICE
208 Main Street
Gaithersburg MD

Owner:

DR. RUPINDER SINGH



Professional Certification:
I certify that these documents were prepared or approved by me, and that I am a duly licensed Architect under the laws of the State of Maryland license number 44287, expiration date 08/08/2019.

Sheet Title:

ELECTRICAL POWER RISER AND SCHEDULES

Sheet Number:

-4.0

Project Information					
Energy Code:	2015 IECC				
Project Title:	Doctor's Office				
Project Type:	New Construction				
Construction Site: 208 main street Gaithersburg, MD	Owner/Agent:	Designer/C	ontractor:		
Additional Efficiency F	Package(s)				
Reduced interior lighting power	er. Requirements are implicitly enforced within interior light	ting allowance calculat	ions.		
Allowed Interior Lighti	ng Power				
	A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2		D wed Wat B X C)
1-doctor's office (Health Care-	-Clinic)	2150	0.81		1742
		То	tal Allowed Wa	tts =	1742
	escription / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D
1-doctor's office (Health Ca LED 1: A: LED Panel 33W:	•	1	20	33	660
LED 2: B: LED Panel 33W:		1	1	33	33
LED 3: C: LED A Lamp 9W Linear Fluorescent 1: D: 24		1	1	9 17	9 17
Linear Fluorescent 1. D. 24	10 17 W. Liectionic.		Total Propose		
	SES: Design 59% better than code				
Interior Lighting Comp	pliance Statement The proposed interior lighting design represented in calculations submitted with this permit application.	The proposed interi	or lighting sy	stems ha	ave been
Compliance Statement: T specifications, and other of	5 IECC requirements in COMcheck Version 4.0.8.2 a				
Compliance Statement: T specifications, and other c designed to meet the 201	5 IECC requirements in COMcheck Version 4.0.8.2 a		Date		

Data filename: C:\Users\sam\Dropbox\Comcheck files\DOCTORS OFFICE GAITHERSBURG.cck

Project Information Energy Code: Project Title: Project Type: Exterior Lighting Zone	2015 IECC Doctor's Office New Construction 2 (Neighborhood busine					
Project Title: Project Type:	Doctor's Office New Construction					
Project Type:	New Construction					
	2 (Neighborhood busine					
	_ (g.,	ess district)				
Construction Site: 208 main street Gaithersburg, MD	Owner/Agent:		Designer/Co	ontractor:		
Allowed Exterior Ligh	iting Power					
Area/Surf	A ace Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	Allowe	E ed W X C
front door (Main entry)		3 ft of door	20	Yes		60
back door (Other door (not r	nain entry))	3 ft of door	20	Yes		60
				le Watts (a)		155
		Tatal All	ı otal All owed Supplement	owed Watts =		155 600
	ghting Power		R	C	n	
Fixture ID : D	gnting Power A Description / Lamp / Wattage Per Lam	np / Ballast	B Lamps/	C # of	D Fixture	(C
Fixture ID : D	A	np / Ballast				(C
front door (Main entry 3 f LED 1: F: LED Panel 19W	A Description / Lamp / Wattage Per Lam tof door width): Tradable Wattage /:		Lamps/	# of	Fixture	(C
front door (Main entry 3 f LED 1: F: LED Panel 19W	A Description / Lamp / Wattage Per Lam it of door width): Tradable Wattage /: ot main entry) 3 ft of door width): Trada		Lamps/ Fixture	# of Fixtures	Fixture Watt.	(С
front door (Main entry 3 f LED 1: F: LED Panel 19W back door (Other door (n LED 2: F: LED Panel 19W	A Description / Lamp / Wattage Per Lam it of door width): Tradable Wattage /: ot main entry) 3 ft of door width): Trada	ble Wattage	Lamps/ Fixture	# of Fixtures	Fixture Watt.	`
front door (Main entry 3 f LED 1: F: LED Panel 19W back door (Other door (n LED 2: F: LED Panel 19W walkway (Walkway < 10	A Description / Lamp / Wattage Per Lam It of door width): Tradable Wattage It of main entry) 3 ft of door width): Trada It of door width): Trada It is feet wide 50 ft of walkway length): Trad	ble Wattage lable Wattage	Lamps/ Fixture	# of Fixtures	Fixture Watt.	`
front door (Main entry 3 f LED 1: F: LED Panel 19W back door (Other door (n LED 2: F: LED Panel 19W walkway (Walkway < 10 Exterior Lighting PAS	A Description / Lamp / Wattage Per Lame t of door width): Tradable Wattage b: ot main entry) 3 ft of door width): Trada b: feet wide 50 ft of walkway length): Trad SSES: Design 95% better than coo	ble Wattage lable Wattage	Lamps/ Fixture	# of Fixtures	Fixture Watt.	`
front door (Main entry 3 f LED 1: F: LED Panel 19W back door (Other door (n LED 2: F: LED Panel 19W walkway (Walkway < 10 Exterior Lighting PAS Exterior Lighting Cor Compliance Statement: specifications, and other	A Description / Lamp / Wattage Per Lame to of door width): Tradable Wattage b: ot main entry) 3 ft of door width): Tradable b: feet wide 50 ft of walkway length): Tradable b: SSES: Design 95% better than coempliance Statement The proposed exterior lighting design recalculations submitted with this permit 15 IECC requirements in COMcheck Ver	ble Wattage lable Wattage de represented in this tapplication. The	Lamps/ Fixture 1 Total Tractions document is compressed exter	# of Fixtures 1 1 dable Propose	Fixture Watt. 18 18 ed Watts =	lding

Text in th	ent, the user certifies that a code re	ectly in the COM is provided by the quirement will be	Icheck software ne user in the COMcheck Requirements screen. For e e met and how that is documented, or that an except table, a reference to that table is provided.
Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	calculations provide all information	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹		□Complies □Does Not □Not Observable □Not Applicable	
Addition	lighting power calculations, wattage of bulbs and ballasts, transformers and		

Section #	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
& Req.ID C405.2.1	Lighting controls installed to uniformly	Complies	
[EL15] ¹	reduce the lighting load by at least	□Does Not	
	50%.	□Not Observable	
		□Not Applicable	
C405.2.1	Occupancy sensors installed in	Complies	
[EL18] ¹	required spaces.	□Does Not	
		□Not Observable	
C405.2.1,	Independent lighting controls installed	□Not Applicable	
C405.2.1,		Does Not	
S = 2.212	manual controls readily accessible and	□Not Observable	
EL23] ²	visible to occupants.	☐Not Applicable	
C405.2.2.	Automatic controls to shut off all	☐Complies	
1	building lighting installed in all	Does Not	
[EL22] ²	buildings.	□Not Observable	
		☐Not Applicable	
C405.2.3		☐Complies	
[EL16] ²	individual controls that control the lights independent of general area	□Does Not	
	lighting	□Not Observable □Not Applicable	
C405.2.3,	Primary sidelighted areas are	☐Complies	
C405.2.3.	equipped with required lighting	□Does Not	
l, C405.2.3.	controls.	□Not Observable	
2		□Not Applicable	
[EL20] ¹			
C405.2.3,	Enclosed spaces with daylight area	☐Complies	
C405.2.3.	under skylights and rooftop monitors	□Does Not	
1, C405.2.3.	are equipped with required lighting controls.	□Not Observable	
3		□Not Applicable	
[EL21] ¹			
C405.2.4	Separate lighting control devices for	☐Complies	
[EL4] ¹	specific uses installed per approved	□Does Not	
	lighting plans.	□Not Observable	
		□Not Applicable	
C405.2.4 [EL8] ¹	Additional interior lighting power allowed for special functions per the	□Complies □Does Not	
	approved lighting plans and is	□Not Observable	
	automatically controlled and separated from general lighting.	□Not Observable □Not Applicable	
2405.2.5	Automatic lighting controls for exterior		
EL25] ^{null}	lighting installed. Controls will be	□Does Not	
	daylight controlled, set based on business operation time-of-day, or	□Not Observable	
	reduce connected lighting > 30%.	□Not Applicable	
C405.3		☐Complies	
EL6] ¹	face.	□Does Not	
		□Not Observable □Not Applicable	
\	ol Commonts/Assumations		
auuitiona	al Comments/Assumptions:		
	1 High Impact (Tier 1)	2 Medium Impac	t (Tier 2) 3 Low Impact (Tier 3)
	T migh limpact (Her I)	Z Medium impac	t (Tier 2) 3 Low Impact (Tier 3)

Page 1 of 7

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	

	1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)		
Project Title:	Doctor's Office	Report date:	10/15/	/18
Data filename:	C:\Users\sam\Dropbox\Comcheck files\DOCTORS OFFICE GAITHERSBURG.cck	Page	6 of	7

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The state of the s	

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Fax: 703-222-3591

FE Project Number:		18-012
ITEM	DESCRIPTION	DATE

Project/Location:

PROPOSED
DOCTOR'S
OFFICE
208 Main Street
Gaithersburg MD

DR. RUPINDER SINGH

Professional Certification:
I certify that these documents were prepared or approved by me, and that I am a duly licensed Architect under the laws of the State of Maryland, license number 44287, expiration date 08/08/2019.

Sheet Title:

COMCHECK REPORT

Sheet Number:

E5.0



COMcheck Software Version 4.0.8.2 Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

Additional Com	ments/Assumptions:			
	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)	
	ctor's Office			port date: 10/15/18
Data filename: C:\	Users\sam\Dropbox\Comcheck fil	les\DOCTORS OFFICE GAITHERS	BURG.cck	Page 3 of 7

Section #	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
& Req.ID C405.2.1 [EL15] ¹	Lighting controls installed to uniformly	□Complies □Does Not	
-	50%.	□Not Observable □Not Applicable	
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	□Complies □Does Not	
		□Not Observable □Not Applicable	
C405.2.1, C405.2.2. 3	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and	□Does Not	
[EL23] ²	visible to occupants.	□Not Observable □Not Applicable	
1	Automatic controls to shut off all building lighting installed in all	□Complies □Does Not	
[EL22] ²	buildings.	□Not Observable □Not Applicable	
C405.2.3 [EL16] ²	individual controls that control the	□Complies □Does Not	
		□Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1,	Primary sidelighted areas are equipped with required lighting controls.	□Complies □Does Not	
C405.2.3. 2 [EL20] ¹	Controls.	□Not Observable □Not Applicable	
C405.2.3, C405.2.3.	Enclosed spaces with daylight area under skylights and rooftop monitors	□Complies □Does Not	
1, C405.2.3. 3	are equipped with required lighting controls.	□Not Observable □Not Applicable	
[EL21] ¹			
C405.2.4 [EL4] ¹	specific uses installed per approved	□Complies □Does Not	
	lighting plans.	□Not Observable □Not Applicable	
C405.2.4 [EL8] ¹	allowed for special functions per the	□Complies □Does Not	
	approved lighting plans and is automatically controlled and separated from general lighting.	□Not Observable □Not Applicable	
C405.2.5 [EL25] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be	□Complies □Does Not	
	daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Not Observable □Not Applicable	
C405.3	Exit signs do not exceed 5 watts per face.	□Complies □Does Not	
		□Not Observable □Not Applicable	
Additiona	al Comments/Assumptions:		
	1 High Impact (Tier 1)	2 Medium Impact (Tier	r 2) 3 Low Impact (Tier 3)
Project Title		Z Medium impact (Hei	Report date: 10/15/18



Design America Engineering, Inc.

MEP CONSULTING ENGINEERS

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FE Proje	18-012	
ITEM	DESCRIPTION	DATE
	FOR PERMIT	10-26-18

Project/Location:

PROPOSED DOCTOR'S OFFICE 208 Main Street Gaithersburg MD

Owner:

DR. RUPINDER SINGH



PROFESSIONAL CERTIFICATION:

I, RAFAEL COELHO, HEREBY CERTIFY THAT THESE
DOCUMENTS WERE PREPARED OR APPROVED BY ME,
AND THAT I AM A DULY LICENSED PROFESSIONAL
ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE # 44287
EXPIRATION DATE: AUGUST 08, 2019

Sheet Title:

COMCHECK REPORT

Sheet Number:

E6.0

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable	
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Compiles □Does Not □Not Observable □Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Doctor's Office Report date: 10/15/18 Data filename: C:\Users\sam\Dropbox\Comcheck files\DOCTORS OFFICE GAITHERSBURG.cck Page 6 of 7



Design America Engineering, Inc.

MEP CONSULTING ENGINEERS

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FE Project Number:		18-012
ITEM	ITEM DESCRIPTION	
	FOR PERMIT	10-26-18

Project/Location:

PROPOSED DOCTOR'S OFFICE 208 Main Street Gaithersburg MD

Owner:

DR. RUPINDER SINGH



PROFESSIONAL CERTIFICATION:

I, RAFAEL COELHO, HEREBY CERTIFY THAT THESE

DOCUMENTS WERE PREPARED OR APPROVED BY ME,

AND THAT I AM A DULY LICENSED PROFESSIONAL

ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE # 44287

EXPIRATION DATE: AUGUST 08, 2019

Sheet Title:

COMCHECK **REPORT**

Sheet Number:

E7.0