

LIGHTING FIXTURE SCHEDULE						
NOTE: VERIFY CEILING AND WALL CONSTRUCTION/FINISHES WITH THE ARCHITECT'S DRAWINGS AND FINISH SCHEDULES. FURNISH PROPER MOUNTING FRAMES, BRACKETS, AND HARDWARE AS REQUIRED TO BE COMPATIBLE WITH ARCHITECTURAL FINISHES. MOUNTING HEIGHTS INDICATED ARE TO BOTTOM OF FIXTURE.						
TYPE (NOTE 3)	DESCRIPTION	VOLTS	LAMPS NO.	TYPE	MAX W.	MOUNTING
A	2'x4' RECESSED FLUORESCENT WITH ACRYLIC LENS AND ELECTRONIC BALLAST.	UNIVERSAL 120-277	2	F032W/B 4100K	56	CEILING RECESSED
B	DECORATIVE LED SEMI-FLUSH BOWL FIXTURE.	120	1	65W LED	65	CEILING SEMI-FLUSH
C	DECORATIVE LED WALL SCIENCE.	120	1	26W LED	26	WALL
D1	6" DIAMETER LED DOWNLIGHT.	120	1	46W LED	46	CEILING RECESSED
D2	6" DIAMETER LED DOWNLIGHT.	120	1	17.1W LED	17.1	CEILING RECESSED
E	VANITY LIGHT.	120	3	60W HALOGEN	180	WALL ABOVE MIRROR
X1	LED EXIT LIGHT WITH WHITE THERMOPLASTIC HOUSING, INTEGRAL BATTERY AND CHARGER AND LETTER COLOR PER LOCAL CODE.	120/277	1	LED	5	UNIVERSAL
X2	ARCHITECTURAL LED EMERGENCY BATTERY UNIT WITH WHITE DIE CAST ALUMINUM HOUSING, INTEGRAL BATTERY AND CHARGER.	120/277	2	LED	2	CEILING/WALL

**SCHEDULE NOTES**

1. MOUNTING HEIGHT MAY BE FIELD ADJUSTED. COORDINATE MOUNTING HEIGHT ON EACH FLOOR WITH ARCHITECT, PRIOR TO INSTALLATION.
2. COORDINATE MOUNTING WITH ARCHITECTURAL DETAIL PRIOR TO IDENTIFYING FLANGE/NO FLANGE WHEN ORDERING FIXTURES.
3. PROVIDE UNIT PRICING FOR PROVIDING AND INSTALLING A SINGLE LIGHTING FIXTURE OF EACH TYPE SPECIFIED ABOVE.
4. COORDINATE MOUNTING WITH ARCHITECTURAL DETAIL PRIOR TO ROUGH-IN; FIELD COORDINATE CONTROL CENTER LOCATION WITH ARCHITECT AND OWNER.

ELECTRICAL LEGEND	
NOTES: 1. MOUNTING HEIGHTS SHALL BE TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.	
	SWITCH-SINGLE POLE, THREEWAY, SUBSCRIPT DENOTES OUTLET CONTROLLED M.H. 4'-0"
	SWITCH-PILOT LIGHT, DIMMER M.H. 4'-0"
	SWITCH-VARIABLE SPEED M.H. 4'-0"
	SWITCH-MOTOR RATED
	SWITCH-KEY OPERATED M.H. 4'-0"
	JUNCTION BOX FLUSH OR SURFACE MOUNTED ON WALL
	WIRING IN OR ON CEILINGS AND WALLS. FOR BRANCH CIRCUITS, HASH MARKS INDICATE THE NUMBER OF CONDUCTORS IF MORE THAN THE DEFAULT OF 2 PLUS GROUND. SEE PANELBOARD SCHEDULE FOR WIRING METHOD, SIZES OF CONDUCTORS AND SIZES OF CONDUIT WHERE APPLICABLE.
	HOMERUN TO PANEL. HASH MARKS INDICATE THE NUMBER OF CONDUCTORS IF MORE THAN THE DEFAULT OF 2 PLUS GROUND. SEE PANELBOARD SCHEDULE FOR WIRING SIZES AND NUMBER OF CONDUCTORS.
	FIXTURE-FLUORESCENT-CEILING, WALL, STRIP
	DENOTES FIXTURE ON NIGHT LIGHT CIRCUIT
	FIXTURE-INCANDESCENT/FLUORESCENT-CEILING, WALL BRACKET
	FIXTURE - HID - WALL BRACKET
	FIXTURE-INCANDESCENT-FLOODLIGHT/EMERGENCY LIGHT
	FIXTURE-TRACK LIGHTING
	EXIT LIGHT-CEILING, WALL, WITH DIRECTIONAL ARROWS
	EXIT SIGN - UNIVERSAL MOUNTING, NUMBER OF SHADED AREAS INDICATE NUMBER OF FACES. ARROWS INDICATED DIRECTIONAL FACE.
	EMERGENCY BATTERY UNIT, WALL MOUNTED
	DRAWING NOTE - REFER TO SPECIFIC NOTES
	MECHANICAL EQUIPMENT SCHEDULE REFERENCE - REFER TO SCHEDULE
	FEEDER SCHEDULE REFERENCE - REFER TO SCHEDULE
	REVISION NOTE - REFER TO REVISION BLOCK
	DUPLEX RECEPTACLE - NEMA 5-20R CONFIGURATION - M.H. 18" A.F.F.
	DUPLEX RECEPTACLE - NEMA 5-20R CONFIGURATION - M.H. 44" A.F.F.
	DOUBLE DUPLEX RECEPTACLE - NEMA 5-20R CONFIGURATION - M.H. 18" A.F.F.
	SINGLE RECEPTACLE - NEMA CONFIGURATION AS NOTED - M.H. 18" A.F.F.
	MOTOR - HORSEPOWER INDICATED WHERE APPLICABLE
	NON-FUSED SAFETY DISCONNECT OR SWITCH, SIZE AS NOTED. M.H. 60" A.F.F.
	FUSED SAFETY DISCONNECT OR SWITCH, SIZE AS NOTED M.H. 60" A.F.F.
	PANELBOARD - SURFACEMOUNTED, RECESSED MOUNTED - M.H. 6'-6" TO TOP
	TELEPHONE OUTLET BOX WITH BLANK COVER PLATE AND 1" CONDUIT UP TO NEARBY ACCESSIBLE CEILING SPACE. "W" INDICATES MOUNTING HEIGHT AT 54" A.F.F.
	OUTLET - VOICE/DATA WALL WITH RING AND STRING TO CEILING SPACE M.H. 1'-6"
	LOW VOLTAGE WIRING
	TELEPHONE TERMINAL BACKBOARD
	WIFI ACCESS POINT
	BRANCH SELECTOR BOX

GENERAL ELECTRICAL NOTES	
1.	ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 NATIONAL ELECTRICAL CODE AND ALL LOCAL COUNTY CODES. WIRING METHODS SHALL BE IN ACCORDANCE WITH N.E.C., LOCAL CODES AND STANDARDS.
2.	CONNECT EXIT LIGHTS AND EMERGENCY LIGHTS TO NON-SWITCHED PORTION OF NORMAL LIGHTING CIRCUIT IN EACH ROOM AHEAD OF SWITCH, RELAY AND OCCUPANCY SENSOR. CONNECT NIGHTS LIGHTS TO DEDICATED, NON SWITCHED CIRCUIT SHOWN.
3.	ALL WIRING SHALL BE COPPER, #12 AWG MINIMUM, TYPE THHN/THWN-2 INSULATION, INSTALLED IN CONDUIT (3/4" MINIMUM). NO ROMEX OR BX CABLE PERMITTED. NO CABLE MAY BE USED ONLY FOR WORK ABOVE CEILINGS AND CONCEALED IN DRYWALL PARTITIONS.
4.	ELECTRICAL CONTRACTOR SHALL VERIFY ALL VOLTAGES OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5.	THE WIRE SIZE INDICATED IN THE HOMERUN SHALL BE USED THROUGHOUT THE CIRCUIT.
6.	SEAL ALL CONDUIT AND CABLE PENETRATIONS THRU RATED WALLS AND FLOORS TO MAINTAIN FIRE INTEGRITY. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE WALL LOCATIONS.
7.	GROUND, PHASE AND NEUTRAL CONDUCTORS SHALL BE PIG-TAILED IN OUTLET BOXES OR MULTI-OUTLET ASSEMBLY FOR EACH RECEPTACLE SO THAT GROUND AND ELECTRICAL SERVICE WILL NOT BE DISTURBED TO OTHER RECEPTACLES ON THE SAME CIRCUIT IF RECEPTACLE IS REMOVED.
8.	ALL COMBINED HOMERUN CIRCUITS SHALL USE INDIVIDUAL NEUTRALS (DEDICATED) NO MULTI-WIRE BRANCH CIRCUITS WITH SHARED NEUTRALS SHALL BE USED.
9.	PROVIDE AN INDIVIDUAL, DEDICATED GFI RECEPTACLE WHERE RECEPTACLES ARE NOTED TO BE GFI TYPE. NO "FEED-THROUGH" GFI PROTECTION WILL BE PERMITTED.
10.	ALL RECEPTACLES WITHIN 6 FEET OF A SINK SHALL BE GFI TYPE.
11.	ALL NEW BREAKERS IN EXISTING AND NEW PANELS SERVING MECHANICAL EQUIPMENT SHALL BE HACR RATED.
12.	ALL NEW BREAKERS INSTALLED IN EXISTING PANELS AND MCC'S SHALL MATCH EXISTING MANUFACTURER AND AIC RATING.
13.	THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ROUGH-IN PROVISIONS SHOWN FOR EACH PIECE OF TENANT LAB EQUIPMENT INCLUDING VOLTAGE, PHASE, AMPERAGE, RECEPTACLE TYPE BASED ON EXISTING EQUIPMENT TO BE MOVED FROM OTHER FACILITIES AND NEW EQUIPMENT PURCHASE ORDERS.
14.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE COMPOUND FILLED CONDULET FITTINGS WHERE CONDUITS ENTER/EXIT ALL WALK-IN BOXES AND OTHER AREAS WITH VARYING ROOM TEMPERATURES/HUMIDITY CONDITIONS.
15.	PROVIDE NEW PANEL DIRECTORIES IN ALL EXISTING PANELBOARDS.
16.	GENERAL ELECTRICAL DEMOLITION BEING PERFORMED UNDER SEPARATE PERMIT. LIMITED ELECTRICAL DEMOLITION FOR THIS PROJECT IS SHOWN ON THE CONTRACT DOCUMENTS.
17.	FIRE ALARM SYSTEM RECONFIGURATION DESIGN BEING PERFORMED UNDER SEPARATE PERMIT.

OCCUPANCY SENSOR SCHEDULE				
TYPE	MOUNTING	DESCRIPTION	VOLTAGE	CATALOG NO.
	CEILING	DUAL TECHNOLOGY PASSIVE INFRARED AND ULTRASONIC CEILING SENSOR FOR OPEN AREAS	120/277V	WATT STOPPER DT-305 CEILING SENSOR OR APPROVED EQUAL
	CEILING	UNIVERSAL VOLTAGE POWER PACK RELAY SYSTEM; PROVIDE JUNCTION BOX	120/277V	WATT STOPPER B2-150 OR APPROVED EQUAL
	WALL	DUAL TECHNOLOGY WALL SWITCH SENSOR	120/277V	WATT STOPPER DW-100 OR APPROVED EQUAL
	CEILING	DUAL TECHNOLOGY PASSIVE INFRARED AND ULTRASONIC CEILING SENSOR FOR OPEN AREAS; MAXIMUM LOAD 1200W	120/277V	WATT STOPPER DT-355 LINE VOLTAGE CEILING SENSOR OR APPROVED EQUAL
	CEILING	ULTRASONIC CEILING SENSOR FOR CORRIDORS.	120/277V	WATT STOPPER WT-2255 CEILING SENSOR OR APPROVED EQUAL

NOTES:  
PROVIDE NEUTRAL CONDUCTOR TO WALL MOUNTED SENSORS.

ELECTRICAL ABBREVIATIONS			
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
A	AMPERE	KW	KILOWATTS
AFF	ABOVE FINISHED FLOOR	M.H.	MOUNTING HEIGHT
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AIC	AMPS INTERRUPTING CURRENT	MH	METAL HALIDE
AWG	AMERICAN WIRE GAUGE	MLO	MAIN LUGS ONLY
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	MW	MICROWAVE
CLG	CEILING	N.C.	NORMALLY CLOSED
DC	DIRECT CURRENT	NEC	NATIONAL ELECTRIC CODE
DE/TO	DUAL ELEMENT/ TIME DELAY	NFSS	NON FUSED SAFETY SWITCH
DW	DISHWASHER	NL	NIGHT LIGHT
E	EMERGENCY	P	POLE
EF	EXHAUST FAN	PH	PHASE
EMT	ELECTRIC METALLIC TUBING	PVC	POLYVINYL CHLORIDE
ETR	EXISTING TO REMAIN	PWR	POWER
F	FUSED OR FUSIBLE	REC	RECEPTACLE
FLA	FULL LOAD AMPS	RM	ROOM
FSS	FUSED SAFETY SWITCH	RX	EXISTING TO BE REMOVED
FT	FEET	UL	UNDERWRITERS LAB
G OR GRD	GROUND	V	VOLTS
H.I.D.	HIGH INTENSITY DISCHARGE	W	WATTS
H.O.A.	HAND-OFF-AUTOMATIC	W/	WITH
HP	HORSEPOWER	WH	WATER HEATER
KV	KILOVOLTS	WP	WEATHER-PROOF
KVA	KILO-VOLT-AMPERE		



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Professional Certification: I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland License No: 18968, Expiration Date: 3/4/2015

NO	DATE	DESCRIPTION
1	06/17/13	PERMIT

REVISIONS

**NOTRE DAME  
 PREP CONVENT  
 RENOVATION**

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**LEGEND,  
 ABBREVIATIONS,  
 NOTES, AND  
 SCHEDULE**

PROJECT NO 13007-00	DWG NO E-001
DATE 06/17/13	