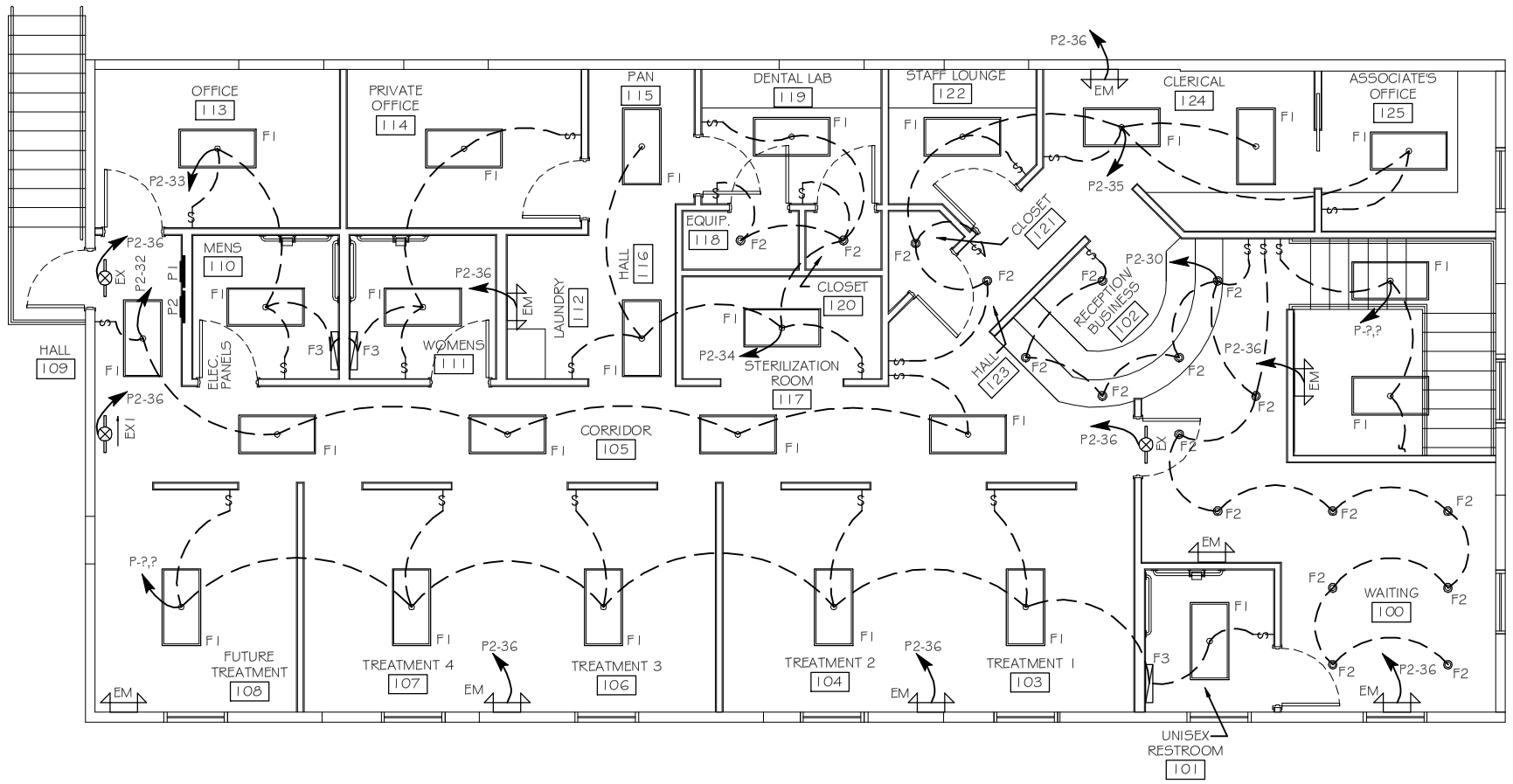


ELECTRICAL LIGHTING PLAN

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

PANEL: P-1
LOCATION: CORRIDOR WALL
FEEDER SOURCE: ENTERGY

VOLTAGE: 120/240V, 200A 3Ø, 4W MLO LOAD CENTER
ENCLOSURE: RECESSED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS; 22,000 AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	A Ø	B Ø	C Ø	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1					960				800					2
3	#10	ZONE A - A/C-1 5 TON CONDENSER UNIT	30	3	960				800	3	35	AHU #1 5 TON 10 kw ELECTRIC HEAT	#6	4
5					960				800					6
7					960				800					8
9	#10	ZONE B - AC-2 5 TON CONDENSER UNIT	30	3	960				800	3	35	AHU #2 5 TON 10 kw ELECTRIC HEAT	#6	10
11					960				800					12
13	#12	DEDICATED 110V RECEPTACLE ABOVE HALL 109 CLG (E4) W/TRANSFORMER	20	1	160				1120	1	20	RECEPTACLES IN WAITING 100 & UNISEX RESTROOM 101	#12	14
15	#6	ELECTRIC WATER HEATER 40 GALLON	40	2	2500				1120	1	20	RECEPTACLES IN RECEPTION 102, CLERICAL 124, & ASSOCIATE 125	#12	16
17					2500				1120	1	20	RECEPTACLES IN HALL 109, OFFICE 113, & RESTROOMS 104 111	#12	18
19	-	SPARE	20	1	-				960	1	20	RECEPTACLES IN LAUNDRY 112 & PRIVATE OFFICE 114	#12	20
21	#12	RECEPTACLES IN PAN 115 & DENTAL LAB 119	20	1	640				800	1	20	STD. RECEPTACLES IN STERIL. RM 117, HALL 116, & EQUIPMENT RM 118	#12	22
23	#12	DEDICATED RECEPTACLE FOR DRYER IN LAUNDRY 112	30	2	3600				160	1	20	DEDICATED GFI RECEPTACLE IN STERILIZATION ROOM 117 (E12)	#12	24
25					3600				1760	2	20	DEDICATED 220V IN STERILIZATION ROOM 117 (E12)	#12	26
27	#12	RECEPTACLES IN STAFF LOUNGE 122 & CLERICAL 124	20	1	1120				1760					28
29	#12	DEDICATED 230V RECEPTACLE IN EQUIPMENT ROOM 118 (E1) 24" AFF	30	2	2760				160	1	20	DEDICATED GFI RECEPTACLE IN STERILIZATION ROOM 117 (E12)	#12	30
31					2760				1840	2	20	DEDICATED 230V RECEPTACLE IN EQUIPMENT ROOM 118 (E2) 60" AFF	#12	32
33	#12	DEDICATED 230V RECEPTACLE IN EQUIPMENT ROOM 118 (E2) 60" AFF	20	2	1840				1840					34
35					1840				160	1	20	DEDICATED 110V RECEPTACLE IN ROOM 118 (E3) W/TRANSFORMER	#12	36
37	-	SPARE	20	1	-				-	1	20	SPARE	-	38
39	#12	RECEPTACLES IN CORRIDOR 105	20	1	800				-	1	20	SPARE	-	40
41	-	SPARE	20	1	-				-	1	20	SPARE	-	42

SOLID NEUTRAL / NEUTRAL WIRE (W) — GROUND BUS / GROUND WIRE (G)

TOTAL CONNECTED LOAD (VA) = 47,480
AØ=15,720 | BØ=15,940 | CØ=15,820

PANEL: P-2
LOCATION: CORRIDOR WALL
FEEDER SOURCE: ENTERGY

VOLTAGE: 120/240V, 200A 3Ø, 4W MLO LOAD CENTER
ENCLOSURE: RECESSED W/EQUIPMENT GND BAR
WITH BOLT-ON BREAKERS; 22,000 AIC

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (VA)	A Ø	B Ø	C Ø	LOAD (VA)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT. NO.
1	#12	DENTAL CHAIR 120V FLOOR RECEPTACLE (E7)	20	1	160				160	1	20	DENTAL CHAIR 120V FLOOR RECEPTACLE (E7)	#12	2
3	#12	DEDICATED QUAD BOX FOR OPERATORY CABINET (E1-4) 120V	20	1	320				160	1	20	DENTAL CHAIR 120V FLOOR RECEPTACLE (E7)	#12	4
5	#12	DENTAL CHAIR 120V FLOOR RECEPTACLE (E7)	20	1	160				1760	2	20	DEDICATED 220V RECEPTACLE IN PAN AREA 115 (E10)	#12	6
7	#12	DEDICATED 120V RECEPTACLE FOR X-RAY (E8) IN FUTURE TREATMENT 106	20	1	160				1760					8
9	#12	DEDICATED QUAD BOX FOR CENTRAL CABINET X-RAY (E13) 120V	10	1	320				320	1	10	DEDICATED QUAD BOX FOR CENTRAL CABINET X-RAY (E13) 120V	#12	10
11	#12	DEDICATED ISOLATED CIRCUIT FOR CENTRAL CABINET X-RAY (E13) 120V	20	1	160				160	1	20	DEDICATED ISOLATED CIRCUIT FOR CENTRAL CABINET X-RAY (E13) 120V	#12	12
13	#12	DEDICATED QUAD BOX FOR OPERATORY CABINET (E1-4) 120V	20	1	320				320	1	20	DEDICATED QUAD BOX FOR OPERATORY CABINET (E1-4) 120V	#12	14
15	#12	DEDICATED QUAD BOX FOR OPERATORY CABINET (E1-4) 120V	20	1	320				320	1	20	DEDICATED QUAD BOX FOR OPERATORY CABINET (E1-4) 120V	#12	16
17	#12	DENTAL CHAIR 120V FLOOR RECEPTACLE (E7)	20	1	160				320	1	20	DEDICATED QUAD BOX FOR OPERATORY CABINET (E1-4) 120V	#12	18
19	#12	SPARE	20	1	-				320	1	10	DEDICATED QUAD BOX FOR UTILITY SERVICE CENTER (E15) 120V	#12	20
21	#12	DEDICATED QUAD BOX FOR UTILITY SERVICE CENTER (E15) 120V	10	1	320				320	1	10	DEDICATED QUAD BOX FOR UTILITY SERVICE CENTER (E15) 120V	#12	22
23	#12	FLUORESCENT LIGHTS IN TREATMENT ROOMS & LIGHTS IN UNISEX TLT 101	20	1	209				1800	1	20	COMPUTER RECEPTACLE FOR RECEPTION/BUSINESS 102	#12	24
25	#12	COMPUTER RECEPTACLE FOR RECEPTION/BUSINESS 102	20	1	1800				1800	1	20	COMPUTER RECEPTACLE FOR OFFICE 113	#12	26
27	#12	COMPUTER RECEPTACLE FOR PAN AREA 115 (W/DATA DROP)	20	1	1800				1800	1	20	COMPUTER RECEPTACLE FOR PRIVATE OFFICE 114	#12	28
29	#12	COMPUTER RECEPTACLE FOR ASSOCIATE'S OFFICE 125	20	1	1800				182	1	20	CAN LIGHTS IN WAITING AREA 100 & RECEPTION/BUSINESS 102	#12	30
31	-	SPARE	20	1	-				160	1	20	FLUORESCENT LIGHTS IN CORRIDOR 105 & HALL 109	#12	32
33	#12	LIGHTS IN MENS RM 110, WOMENS RM 111, OFFICE 113, & OFFICE 114	20	1	162				154	1	20	LIGHTS IN PAN AREA 115, HALL 116, ROOMS 117, 118, 119, & 120	#12	34
35	#12	LIGHTS IN CLOSET 121, LOUNGE 122, FILE RM 124, & OFFICE 125	20	1	154				100	1	20	EMERGENCY & EXIT LIGHTS	#12	36
37	-	SPARE	20	1	-				-	1	20	SPARE	-	38
39	#12	DEDICATED QUAD BOX FOR UTILITY SERVICE CENTER (E15) 120V	10	1	320				320	1	10	DEDICATED QUAD BOX FOR UTILITY SERVICE CENTER (E15) 120V		40
41	-	SPARE	20	1	-				-	1	20	SPARE	-	42

SOLID NEUTRAL / NEUTRAL WIRE (W) — GROUND BUS / GROUND WIRE (G)

TOTAL CONNECTED LOAD (VA) = 20,881
AØ=6,960 | BØ=6,956 | CØ=6,965

NOTE:

SEE EQUIPMENT SUPPLIER PLANS AND DETAILS FOR DENTAL EQUIPMENT ELECTRICAL REQUIREMENTS.

PATTERSON DENTAL LIGHTING NOTES

SEE PLANS BY PATTERSON DENTAL

DENTAL OPERATING LIGHT, CEILING MOUNTED - 115 VOLTS, 3 AMPS, WHERE DESIGNATED, RUN RIGID OR FLEX CONDUIT WITH CONNECTOR. ELECTRICIAN TO AVOID USING SAME CIRCUIT AS OVERHEAD GENERAL CEILING LIGHTING. SEE CARPENTER'S SPECS FOR BACKING INSTRUCTIONS. POSITION OF OUTLET WILL BE SPOTTED BY PATTERSON DENTAL REPRESENTATIVE. SEE MANUFACTURERS SPECIFICATIONS.

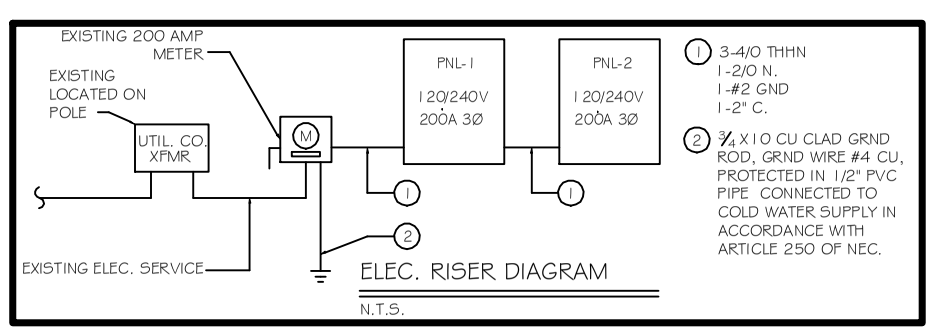
LIGHTING FIXTURE SCHEDULE

LABEL	DESCRIPTION	MANUFACTURER PRODUCT #	LAMPS	QTY
F1	2x4 RECESSED FLOURESCENT 3" PARABOLIC TROFFER	LITHONIA LIGHTING 2PM3N 3 32 MVOLT 1/3 GEB1015	3-T8 32W FLOURESCENT 120V	16
F2	SURFACE MOUNTED FLOURESCENT	LEVITON 9860 LHG	1-13W FLOURESCENT 120V	5
F3	COMMERCIAL WALL BRACKET 24" LONG	LITHONIA LIGHTING WC 2 17 MVOLT GEB1015	2-T8 17W FLOURESCENT 120V	5
EM	EMERGENCY EGRESS LIGHT W/ 90 MIN. BATTERY BACKUP	LITHONIA EU2-MG, EMERGENCY FIXTURE WITH THERMOPLASTIC HOUSING	2-5.4W HALOGEN	
EX	WALL MOUNTED LED EXIT SIGN	LITHONIA EXR=EL-MG, EXIT FIXTURE WITH THERMOPLASIC HOUSING & RED LETTERING	LED	
EX1	WALL MOUNTED LED EXIT SIGN W/ REMOTE HEAD	LITHONIA EXR-EL-MG, DIRECTIONAL EXIT FIXTURE W/THERMOPLASTIC HOUSING & RED LETTERING	LED 7.2W REMOTE HEAD	

NOTES: 1. CONNECT ALL EMERGENCY/EXIT LIGHT FIXTURES TO NEAREST CONSTANT POWER SOURCE.

ELECTRICAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
8. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
9. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
10. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING.
11. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
12. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION PER ARTICLE 300.22B; DUCTS SPECIFICALLY FABRICATED FOR ENVIRONMENTAL AIR. MIMINUM SIZE CONDUIT SHALL BE 3/4" EMT FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE TYPE NMC CABLE COPPER, FOR LIGHTS AND RECEPTACLE CIRCUITS. EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS.
13. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
14. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
15. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71, & 250-72.
16. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
17. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTER-RUPTING CAP.
18. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO THE REQUIREMENTS OF THE STATE FIRE MARSHAL.
19. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)



ELEC. RISER DIAGRAM

N.T.S.

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NEW ORLEANS, LOUISIANA

JOB No: 2188 | DATE: 11-14-2013
DRAWN BY: JTL | CHECKED BY: CKD

#	DESCRIPTION	DATE

REVISIONS

ELECTRICAL LIGHTING PLAN

SHEET No: 14 OF 15

E-2