PANEL: P-1 (EXISTING)
LOCATION: REAR BUILDING WALL INSIDE
FEEDER SOURCE: ELEC. SERVICE PROVIDER

VOLTAGE:120/240V, 200A 1Φ, 3W
ENCLOSURE: NEMA 1, SURFACE MOUNTED, 200A MB,
W/EQUIPMENT GND BAR

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER P/OLE	LOAD (VA)	AΦ	BΦ	LOAD (VA)	BREAKER P/OLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	#6	A/C #1 CONDENSING UNIT 9 TON	60	2	4140			6720	2	60	AHU #1 & HEATER 9.6 kw	#6	2
3					4140			6720					4
5	#10	ELEC. WATER HEATER 40 GALLON	30	2	3600			8782	2	125	PANEL LP	#10	6
7					3600			8726					8
9	#12	EXTERIOR WALL-MOUNTED LIGHTS AT DOORS	20	1	540			720	1	20	GFI RECEPTACLES ON WAREHOUSE WALL	-	10
11	#12	EXTERIOR WALL-PACK FLOOD LIGHTS	20	1	1100			-	1	20	SPARE	-	12
13	-	SPARE	20	1	-			-	1	20	SPARE	-	14
15	-	SPARE	20	1	-			-	1	20	SPARE	-	16
17	-	SPARE	20	1	-			-	1	-	SPACE	-	18
19	-	SPACE	-	1	-			-	1	-	SPACE	-	20
21	-	SPACE	-	1	-			-	1	-	SPACE	-	22
23	-	SPACE	-	1	-			-	1	-	SPACE	-	24
25	-	SPACE	-	1	-			-	1	-	SPACE	-	26
27	-	SPACE	-	1	-			-	1	-	SPACE	-	28
29	-	SPACE	-	1	-			-	1	-	SPACE	-	30
31	-	SPACE	-	1	-			-	1	-	SPACE	-	32
33	-	SPACE	-	1	-			-	1	-	SPACE	-	34
35	-	SPACE	-	1	-			-	1	-	SPACE	-	36
37	-	SPACE	-	1	-			-	1	-	SPACE	-	38
39	-	SPACE	-	1	-			-	1	-	SPACE	-	40
41	-	SPACE	-	1	-			-	1	-	SPACE	-	42

SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (VA) = 48,790
AΦ = 24,502 BΦ = 24,288

GROUND BUS
GROUND WIRE (G)

PANEL: LP-1 (NEW)
LOCATION: WAREHOUSE SIDE OF BREAKROOM WALL
FEEDER SOURCE: HOUSE PANEL "HP-1"

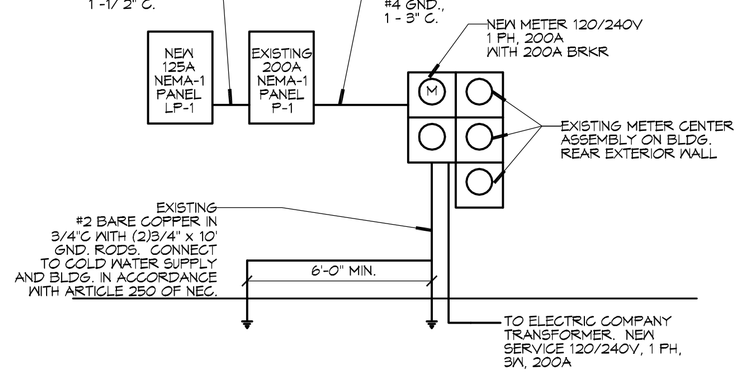
VOLTAGE:120/240V, 125A 1Φ, 3W
ENCLOSURE: SURFACE MOUNTED, MLO, W/EQUIPMENT GND BAR

CKT. NO.	THHN WIRE SIZE	LOAD DESCRIPTION LOCATION	BREAKER AMP	BREAKER P/OLE	LOAD (VA)	AΦ	BΦ	LOAD (VA)	BREAKER P/OLE	BREAKER AMP	LOAD DESCRIPTION LOCATION	THHN WIRE SIZE	CKT. NO.
1	#12	RECEPTACLES IN ENTRANCE AREA AND OFFICE-2	20	1	1260			1260	1	20	RECEPTACLES IN MAIN OFFICE AND WAREHOUSE SIDE OF MAIN OFFICE WALL	#12	2
3	#12	RECEPTACLES IN MAIN OFFICE AND WAREHOUSE SIDE OF MAIN OFFICE WALL	20	1	1080			1260	1	20	RECEPTACLES IN OFFICE-3, EXTERIOR W.P. GFI, & IN WAREHOUSE ON MAIN OFFICE WALL	#12	4
5	#12	DEDICATED MICROWAVE RECEPTACLE	20	1	1400			1400	1	20	DEDICATED REFRIGERATOR RECEPTACLE	#12	6
7	#12	RECEPTACLES IN RESTROOMS, BREAK-ROOM, AND WAREHOUSE	20	1	1260			1200	1	20	DEDICATED ICE MACHINE RECEPTACLE	#12	8
9	#12	RECEPTACLES IN TOOL ROOM AND WAREHOUSE SIDE OF TOOL ROOM WALL	20	1	1260			540	1	20	RECEPTACLES IN WAREHOUSE RESTROOM & WAREHOUSE SIDE OF RESTROOM WALL	#12	10
11	#12	LIGHTS IN MAIN OFFICE AND RESTROOM NEAREST TO MAIN OFFICE	20	1	822			1022	1	20	LIGHTS IN TOOL ROOM, WAREHOUSE RESTROOM, AND SHOWER AREAS	#12	12
13	#12	LIGHTS IN ENTRANCE AREA RESTROOM, OFFICES-2 & 3, AND BREAKROOM	20	1	1062			600	1	20	STRIP LIGHTS OVER MEZZANINE/DECK ABOVE OFFICES & TOOL ROOM AREAS	#12	14
15	#12	HIGH BAY WAREHOUSE LIGHTS	20	1	1944			140	1	20	EMERGENCY & EXIT LIGHTING	#12	16
17	-	SPARE	20	1	-			-	1	20	SPARE	-	18
19	-	SPARE	20	1	-			-	1	20	SPARE	-	20
21	-	SPARE	20	1	-			-	1	20	SPARE	-	22
23								-	1	-	SPACE	-	24
25	-	SPACE	-	1	-			-	1	-	SPACE	-	26
27	-	SPACE	-	1	-			-	1	-	SPACE	-	28
29	-	SPACE	-	1	-			-	1	-	SPACE	-	30

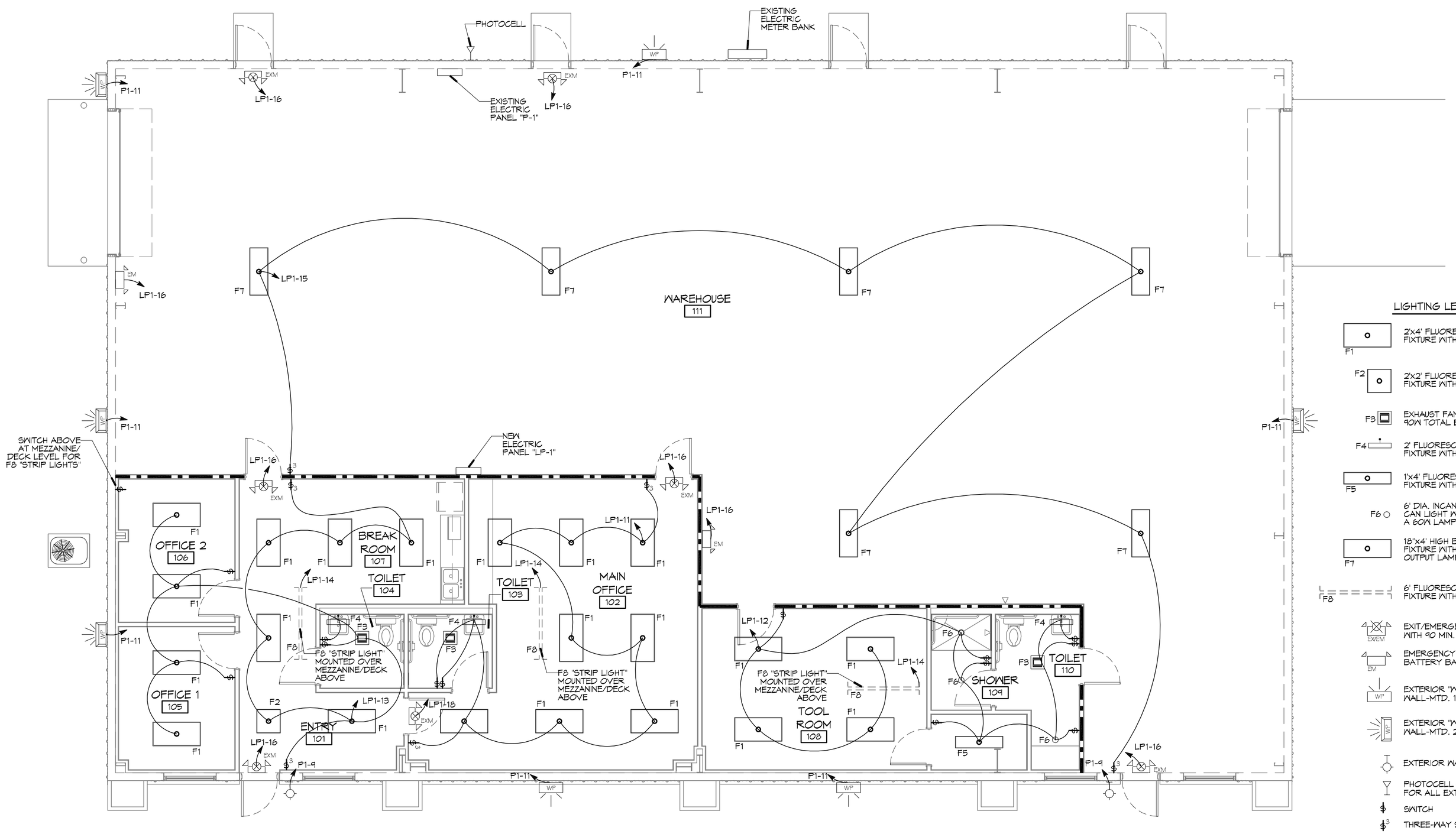
SOLID NEUTRAL
NEUTRAL WIRE (N)

TOTAL CONNECTED LOAD (VA) = 17,510
AΦ = 8,782 BΦ = 8,728

GROUND BUS
GROUND WIRE (G)



ELECTRICAL ONE-LINE DIAGRAM
N.T.S.



LIGHTING LEGEND:

- F1 — 2'x4' FLUORESCENT LAYIN FIXTURE WITH 3 EA. 32W LAMPS
- F2 — 2'x2' FLUORESCENT LAYIN FIXTURE WITH 2 EA. 24W LAMPS
- F3 — EXHAUST FAN/LIGHT COMBO UNIT 90W TOTAL EA.
- F4 — 2' FLUORESCENT WALL-MTD. FIXTURE WITH 1 EA. 60W LAMP
- F5 — 1'x4' FLUORESCENT SURFACE-MTD. FIXTURE WITH 2 EA. 32W LAMPS
- F6 — 6" DIA. INCANDESCENT RECESSED CAN LIGHT WITH SHOWER TRIM & A 60W LAMP
- F7 — 18"x4' HIGH BAY FLUORESCENT. FIXTURE WITH 6 EA. 54W HIGH OUTPUT LAMPS
- F8 — 6' FLUORESCENT STRIP LIGHT FIXTURE WITH 2 EA. 100W LAMPS
- EXIT/EMERGENCY LIGHT COMBO UNIT WITH 90 MIN. BATTERY BACKUP (40W EA.)
- EM — EMERGENCY LIGHT UNIT WITH 90 MIN. BATTERY BACKUP (30W EA.)
- WP — EXTERIOR "WALL-PACK" FLOOD LIGHT, WALL-MTD. 150W EA. (LED)
- WP — EXTERIOR "WALL-PACK" FLOOD LIGHT, WALL-MTD. 250W EA. (LED)
- EXTERIOR WALL-MTD. FIXTURE (LED)
- PHOTOCELL CONTROL SWITCH FOR ALL EXTERIOR LIGHTING (120V)
- SWITCH
- 3 — THREE-WAY SWITCH
- ELECTRIC CIRCUIT PANEL

N

1 ELECTRICAL LIGHTING PLAN
SCALE: 3/16"=1'-0

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#	DESCRIPTION	DATE

REVISIONS

SEAL:

OFFICE BUILDOUT FOR
KBR ENTERPRISES
716 STRAWBERRY STREET
SLIDELL, LOUISIANA 70460

JOB No: 2221 DATE: 01-14-15
DRAWN BY: KJK CHECKED BY: CKD

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SHEET TITLE:
LIGHTING PLAN

DRAWING NUMBER:
E102

SHEET No: 10 of 11