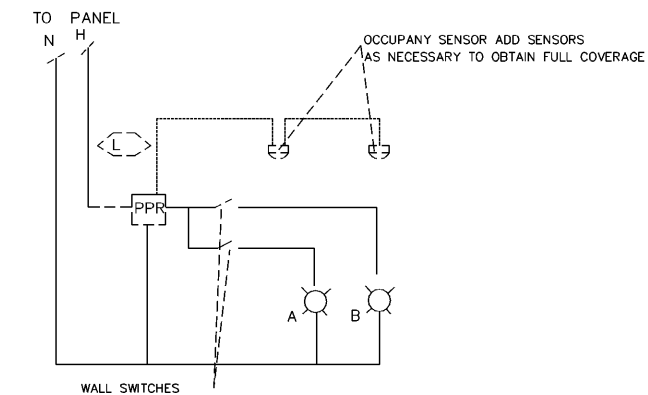


LOW VOLTAGE CABLING AS REQUIRED

TYPE S SCHEMATIC



TYPE L SCHEMATIC

HOUSE LOADS 5,720 VA

TOTAL LOAD FOR BLDG #1
3- TENANT SPACES - 254,889 VA

260,609 VA/120/208V 3-PHASE = 724 AMPS
SERVICE FOR BLDG #1 TO BE 1200 AMPS 120/208V 3 - PHASE

LOAD CALCULATIONS
BUILDING SIZE 7,317 S.F.

FUTURE RESTURANT TENANT SPACE SIZE 3,300 S.F.
TENANT SPACE LOAD

space size 3300sq ft
lighting load
3300x 3va x 125%=12,375va
recept load
3300 x 1 va =3300va
show window
1 @1200va
phone board
1 @180va
w-cooler
1@800va
sign
1@1200va
hvac
2 @15kw
w-heat
1@4500va
kit equipment
by tenant
30kva
total load
103,555/120/208v 3 phase = 274 amps
service to be 400 amps 120/208v 3- phase per owners request

FUTURE RESTURANT TENANT SPACE SIZE 1,281 S.F.
TENANT SPACE LOAD

space size 1281sq ft
lighting load
1281 x 3va x 125%= 4,804 va
recept load
1281 x 1 va =1281va
show window
1 @1200va
phone board
1 @180va
w-cooler
1@800va
sign
1@1200va
hvac
1 @15kw
w- heater
1@4500va
kit equipment
by tenant
30kva
total load
58165 va/120/208v 3 phase = 162 amps
service to be 400 amps 120/208v 3- phase per owners request

FUTURE RESTURANT TENANT SPACE SIZE 2,646 S.F.
TENANT SPACE LOAD

space size 2646 sq ft
lighting load
2646 x 3va x 125%=9,923 va
recept load
3300 x 1 va =2646va
show window
1 @1200va
phone board
1 @180va
w-cooler
1@800va
sign
1@1200va
hvac
3 @15kw
w- heater
1@4500va
kit equipment
by tenant
30kva
total load
93169 va/120/208v 3 phase = 258 amps
service to be 400 amps 120/208v 3- phase per owners request

PANEL FOR 3,300 S.F. TENANT

CKT	DESCRIPTION	WIRE SIZE	BRK	BRK	WIRE SIZE	DESCRIPTION	CKT
1	EMERG/EXIT			20/1	12	TENATN LIGHTING -FUTURE	2
3	N/L-FUTURE	12	20/1	20/1	12	TENATN RECEPT- FUTURE	4
5	PHONE BD	12	20/1	20/1	12	W COOLER-FUTURE	6
7	RECEPT-FUTURE	12	20/1	20/1	12	SHOW RECEPT- FUTURE	8
9	TENANT SIGNS			30/2	10	WATER HEATER -FUTURE	10
11	RTU	6	60/3	30/2	10	WATER HEATER- FUTURE	12
13	LIGHTS AT PATIO						14
15							16
17							18
19							20
21							22
23							24

TOTAL CONNECTED LOAD = 103,555 va

PANEL FOR 1,281 S.F. TENANT

CKT	DESCRIPTION	WIRE SIZE	BRK	BRK	WIRE SIZE	DESCRIPTION	CKT
1	EMERG/EXIT			20/1	12	TENATN LIGHTING -FUTURE	2
3	N/L-FUTURE	12	20/1	20/1	12	TENATN RECEPT- FUTURE	4
5	PHONE BD	12	20/1	20/1	12	W COOLER-FUTURE	6
7	RECEPT-FUTURE	12	20/1	20/1	12	SHOW RECEPT- FUTURE	8
9	TENANT SIGNS			30/2	10	WATER HEATER -FUTURE	10
11	RTU	6	60/3	30/2	10	WATER HEATER- FUTURE	12
13							14
15							16
17							18
19							20
21							22
23							24

TOTAL CONNECTED LOAD = 58,165 va

HOUSE PANEL

CKT	DESCRIPTION	WIRE SIZE	BRK	BRK	WIRE SIZE	DESCRIPTION	CKT
H1	WALL PACK BLDG	12	20/1	20/1	12	PARKING LOT	2
H3	GOOSENECK LIGHTS BLDG -4 SIDES	12	20/1	20/1	12	PARKING LOT	4
H5	LIGHT AT LADDER ROOM	12	20/1	20/1	12	PARKING LOT	6
H7	SPEAKERS						8
H9	HOLIDAY LIGHTS AT TRELIS						10
H11	UPPER WINDOW LIGHTS						12
H13	PYLON SIGN						14
15							16
17							18
19							20
21							22
23							24

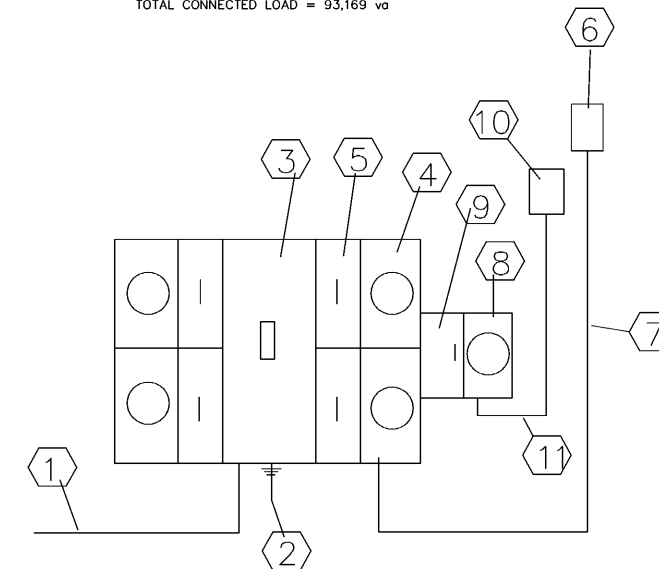
TOTAL CONNECTED LOAD = 58.2KVA

PANEL FOR 2,646 S.F. TENANT

CKT	DESCRIPTION	WIRE SIZE	BRK	BRK	WIRE SIZE	DESCRIPTION	CKT
1	EMERG/EXIT			20/1	12	TENATN LIGHTING -FUTURE	2
3	N/L-FUTURE	12	20/1	20/1	12	TENATN RECEPT- FUTURE	4
5	PHONE BD	12	20/1	20/1	12	W COOLER-FUTURE	6
7	RECEPT-FUTURE	12	20/1	20/1	12	SHOW RECEPT- FUTURE	8
9	TENANT SIGNS			30/2	10	WATER HEATER -FUTURE	10
11	RTU	6	60/3	30/2	10	WATER HEATER- FUTURE	12
13							14
15							16
17							18
19							20
21							22
23							24

TOTAL CONNECTED LOAD = 93,169 va

GOOSENECK LIGHTS AND UPPER WINDOW LIGHTS TO BE ON SEPARATE TIMERS



ELECTRICAL LOAD CALCULATION PER NEC 2014 ARTICLE 220.12-16
GENERAL LIGHTING LOAD BASED ON NEC2014 ARTICLE 220.12-16
OTHER LOADS BASED ON INFORMATION PROVIDED BY THE TENANT
SERVICE LOAD BASED ON 220.40 --SHOWN AT 100% OF FULL LOAD , NO DEMAND FACTOR TAKEN

RISER DIAGRAM NOTES:

- 4 -3" sch 4 PVC RACEWAYS EACH WITH 4-500 MCM XHHW AL CONDUCTORS - TO UTILITY CO POWER
- 3/0 THWN CU GROUND PER NEC
- 1200 AMP 120/208V 3 -PHASE MCB IN NEMA 3R ENCLOSURE
- 400 AMP 120/208V 3 PHASE METER SOCKET
- 400 AMP 120/208V 3- PHASE TENANT MCB
- 400 AMP 120/208V 3 PHASE TENANT PANEL
- 2 1/2" SCH 40 PVC RACEWAY WITH 4 -250 MCM XHHW AL CONDUCTORS AND 1-#2 XHHW AL GROUND
- 100 AMP 120/208 V 3- PHASE HOUSE METER SOCKET
- 100 AMP 120/208V 3 -PHASE HOSE MCB
- 100 AMP 120/208V 3 -PHASE HOUSE PANEL
- 2" SCH 40 PVC RACEWAY W/4-#2 XHHW AL CONDUCTORS AND 1 #4 XHHW AL GROUND

SERVICE OF KNIGHTS ELECTRIC LLC
KYLAN KNIGHT - DRAWN BY JW 904 334-8579
ERI1301-5329
324 N 6TH AVE N, JACKSONVILLE BEACH, FL., 32250

BUILDING #1
BRANAN FIELD WALK
MIDDLEBURG, FLORIDA

RISER DIAGRAM, NOTES AND PANEL SCHEDULE

DATE	REVISIONS:

Date: 10/1/2018
Scale: 3/16" = 1'-0"
Drawn:
Checked:
Sheet No: