

REMOVAL KEYNOTES

- 1 EXISTING ASPHALT TO REMAIN.
- 2 EXISTING CURB TO REMAIN.
- 3 EXISTING GUTTER TO REMAIN.
- 4 EXISTING ASPHALT TO BE REMOVED.
- 5 EXISTING CURB TO BE REMOVED.
- 6 EXISTING GUTTER TO BE REMOVED.
- 7 EXISTING LIGHT TO BE REMOVED.
- 8 EXISTING DRYWELL TO BE REMOVED.
- 9 EXISTING BOLLARD TO BE REMOVED.

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 phoenix, arizona 85014
 p: 623.282.2498
 e: jphunt@cypresscivil.com

NO.	DATE	REVISION

**IMPROVEMENT PLAN for
 HAMPTON INN - CASA GRANDE**
 2182 EAST FLORENCE BOULEVARD CASA GRANDE, ARIZONA
 demo



DRAWN:	PT
DESIGNED:	EW
CHECKED:	JH
DATE:	04-07-2022
JOB NO:	20.058
SHEET NUMBER	



NO.	DESCRIPTION	DATE	BY

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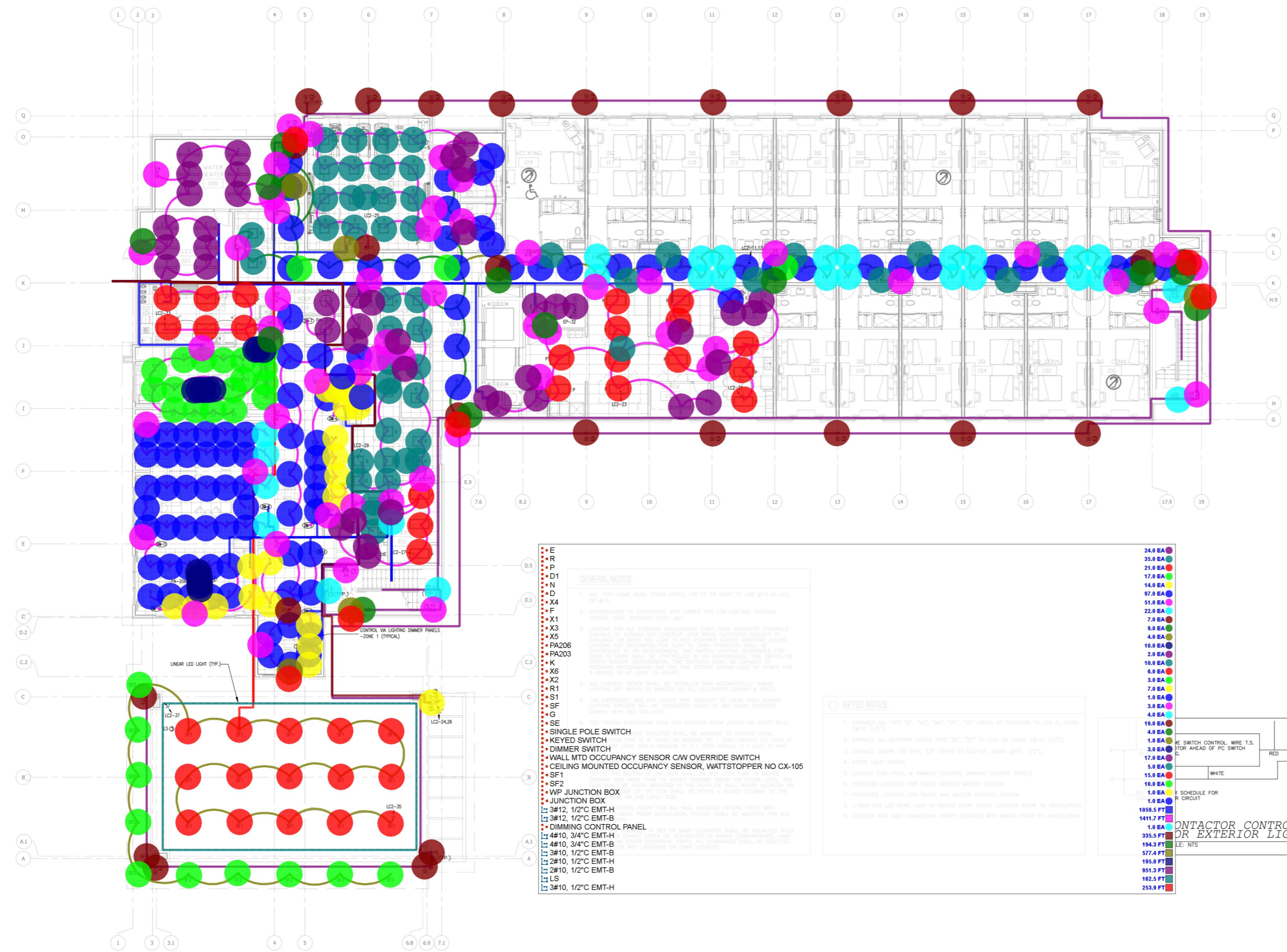


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

LIGHTING
FIRST FLOOR PLAN

SHEET E2.0



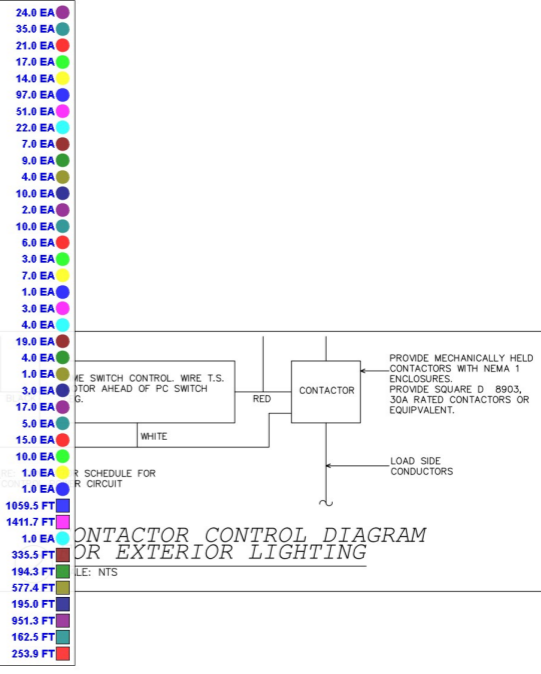
- E
- R
- P
- D1
- N
- D
- X4
- F
- X1
- X3
- X5
- PA206
- PA203
- K
- X6
- X2
- R1
- S1
- SF
- G
- SE
- SINGLE POLE SWITCH
- KEYSWITCH
- DIMMER SWITCH
- WALL MTD OCCUPANCY SENSOR C/W OVERRIDE SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR, WATTSTOPPER NO CX-105
- SF1
- SF2
- W/P JUNCTION BOX
- JUNCTION BOX
- 3#12, 1/2" C EMT-H
- 3#12, 1/2" C EMT-B
- DIMMING CONTROL PANEL
- 4#10, 3/4" C EMT-H
- 4#10, 3/4" C EMT-B
- 3#10, 1/2" C EMT-B
- 2#10, 1/2" C EMT-H
- 2#10, 1/2" C EMT-B
- LS
- 3#10, 1/2" C EMT-H

GENERAL NOTES

1. ALL 120V HOME RUNS (FROM UNITS) 100 FT OR MORE TO USE #10 IN LIEU OF #12.
2. CONTRACTORS TO COORDINATE WITH OWNER FOR LOW-VOLTAGE SYSTEMS (PHONE, DATA, SECURITY, CCTV, etc.).
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS. LIGHTING NOT ASSIGNED FOR DIMM OR DIMMING OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DIMM OR DIMMING OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR PHOTO SENSOR. ASTRONOMICAL TIME SWITCHES SHALL BE CAPABLE OF RECEIVING PROGRAMMING AND THE TIME SETTING DURING LOCK OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
4. ALL CONTROL DEVICES SHALL BE INSTALLED THAT AUTOMATICALLY TURNS LIGHTING OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING A SPACE.
5. THE EMERGENCY AND EXIT LIGHTS THAT CONNECT TO LOCAL AREA NORMAL LIGHTING CIRCUITS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES. COMPLY WITH NEC 240.11(2).
6. SEE EXISTING EXTERIOR PLAN FOR DETAILED ROOM LAYOUT ON SHEET E-1.0.

KEYED NOTES

1. CONNECT ALL TYPE "0", "01", "02", "03", "04", "05", "06" LIGHTS AT STAIRCASE TO LC2-6, USING 8F10, 1/2" C.
2. CONNECT ALL EXTERIOR LIGHTS TYPE "02", "03" TO LC2-36, USING 8F10, 1/2" C.
3. CONNECT LINEAR LED TYPE "12" LIGHTS TO LC2-37, USING 2810, 1/2" C.
4. KEYSWITCH.
5. LIGHTING SUB-PANEL & DIMMING (CENTRAL DIMMING CONTROL PANEL).
6. PROPOSED LOCATION FOR TOUCH SCREEN MASTER CONTROL.
7. PROPOSED LOCATION FOR TOUCH WAVE MASTER CONTROL STATION.
8. A-FIX FOR LED ROPE LIGHT IN TREATS SHOP. VERIFY LOCATION PRIOR TO INSTALLATION.
9. LOCATION FOR SIGN CONNECTION. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION.



1 LIGHTING
FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

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1. YOU WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
2. YOUR WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
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NO.	DESCRIPTION	DATE	BY

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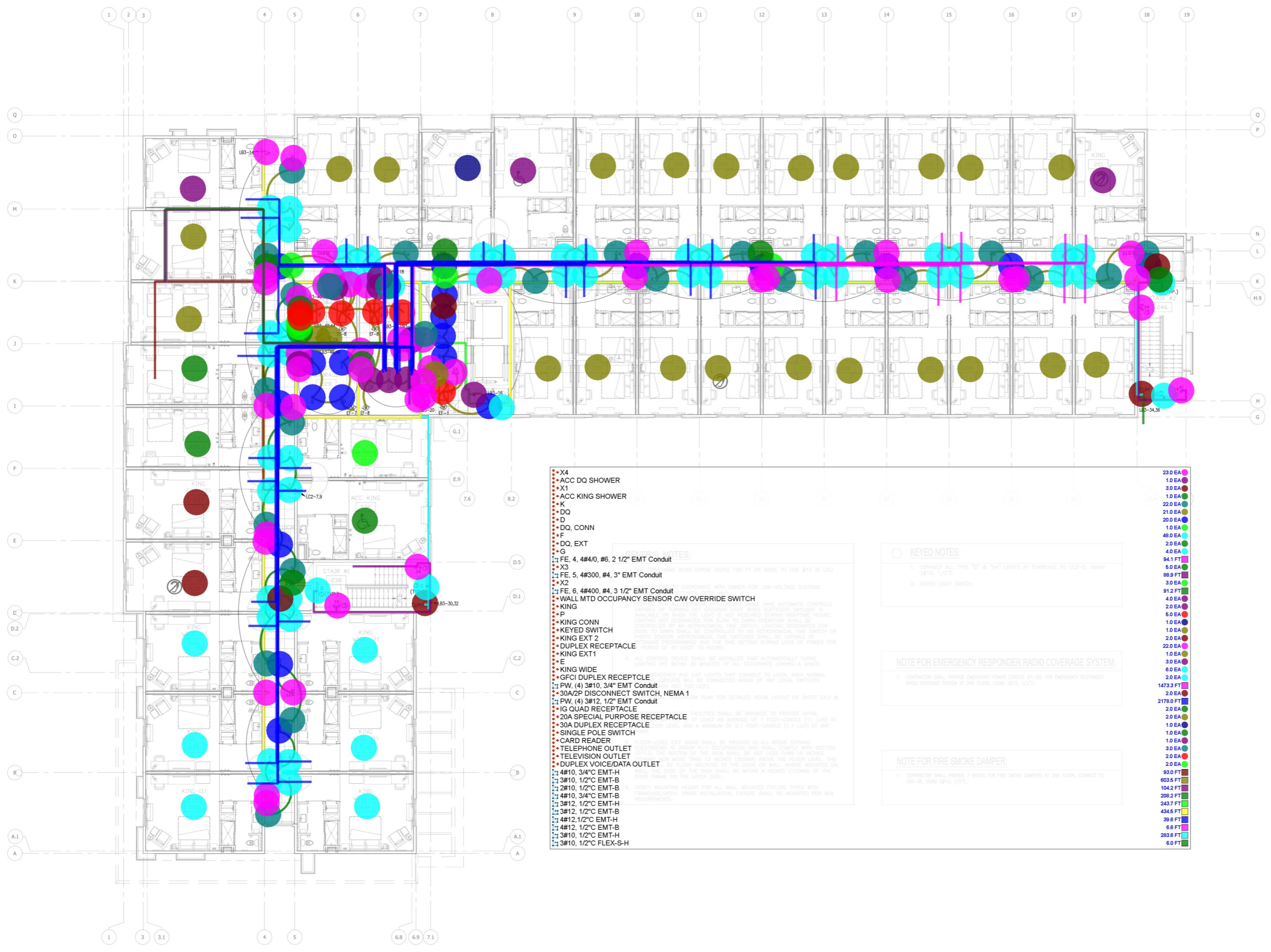


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

LIGHTING & POWER
SECOND FLOOR PLAN

SHEET E2.1



- X4
- ACC DQ SHOWER
- X1
- ACC KING SHOWER
- K
- DQ
- D
- DQ, CONN
- F
- DQ, EXT
- G
- FE, 4, 4#4/0, #6, 2 1/2" EMT Conduit
- X3
- FE, 5, 4#300, #4, 3" EMT Conduit
- X2
- FE, 6, 4#400, #4, 3 1/2" EMT Conduit
- WALL MTD OCCUPANCY SENSOR CW OVERRIDE SWITCH
- KING
- P
- KING CONN
- KEYED SWITCH
- KING EXT 2
- DUPLEX RECEPTACLE
- KING EXT 1
- E
- KING WIDE
- GFCI DUPLEX RECEPTACLE
- PW, (4) 3#10, 3/4" EMT Conduit
- 30A/2P DISCONNECT SWITCH, NEMA 1
- PW, (4) 3#12, 1/2" EMT Conduit
- 1G QUAD RECEPTACLE
- 20A SPECIAL PURPOSE RECEPTACLE
- 30A DUPLEX RECEPTACLE
- SINGLE POLE SWITCH
- CARD READER
- TELEPHONE OUTLET
- TELEVISION OUTLET
- DUPLEX VOICE/DATA OUTLET
- 4#10, 3/4" EMT-H
- 3#10, 1/2" EMT-B
- 2#10, 1/2" EMT-B
- 4#10, 3/4" EMT-B
- 3#12, 1/2" EMT-H
- 3#12, 1/2" EMT-B
- 4#12, 1/2" EMT-H
- 4#12, 1/2" EMT-B
- 3#10, 1/2" EMT-H
- 3#10, 1/2" FLEX-S-H

KEYED NOTES:

- CONNECT ALL TYPE "Q" & "H" LIGHTS AT STAIRWELLS TO L23-B USING 3#10, 1/2".
- KEYED LIGHT SWITCH.

NOTE FOR EMERGENCY RESPONDER RADIO COVERAGE SYSTEM:

- CONTRACTOR SHALL PROVIDE EMERGENCY POWER CIRCUIT (EP-C) FOR EMERGENCY RESPONDER RADIO COVERAGE SYSTEM AT 2ND FLOOR, USING 2#10, 1/2".

NOTE FOR FIRE SMOKE DAMPER:

- CONTRACTOR SHALL PROVIDE 4-RINGS FOR FIRE SMOKE DAMPERS AT 2ND FLOOR, CONNECT TO L23-B, USING 2#12, 1/2".

- 23.0 EA
- 1.0 EA
- 3.0 EA
- 1.0 EA
- 22.0 EA
- 21.0 EA
- 20.0 EA
- 1.0 EA
- 48.0 EA
- 2.0 EA
- 4.0 EA
- 84.1 FT
- 5.0 EA
- 88.9 FT
- 3.0 EA
- 91.2 FT
- 4.0 EA
- 2.0 EA
- 6.0 EA
- 1.0 EA
- 1.0 EA
- 2.0 EA
- 22.0 EA
- 1.0 EA
- 3.0 EA
- 6.0 EA
- 2.0 EA
- 1473.3 FT
- 2.0 EA
- 2178.0 FT
- 2.0 EA
- 2.0 EA
- 1.0 EA
- 1.0 EA
- 3.0 EA
- 2.0 EA
- 2.0 EA
- 93.0 FT
- 603.5 FT
- 104.2 FT
- 208.2 FT
- 243.7 FT
- 434.5 FT
- 39.6 FT
- 6.6 FT
- 283.6 FT
- 6.0 FT

① LIGHTING & POWER
SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

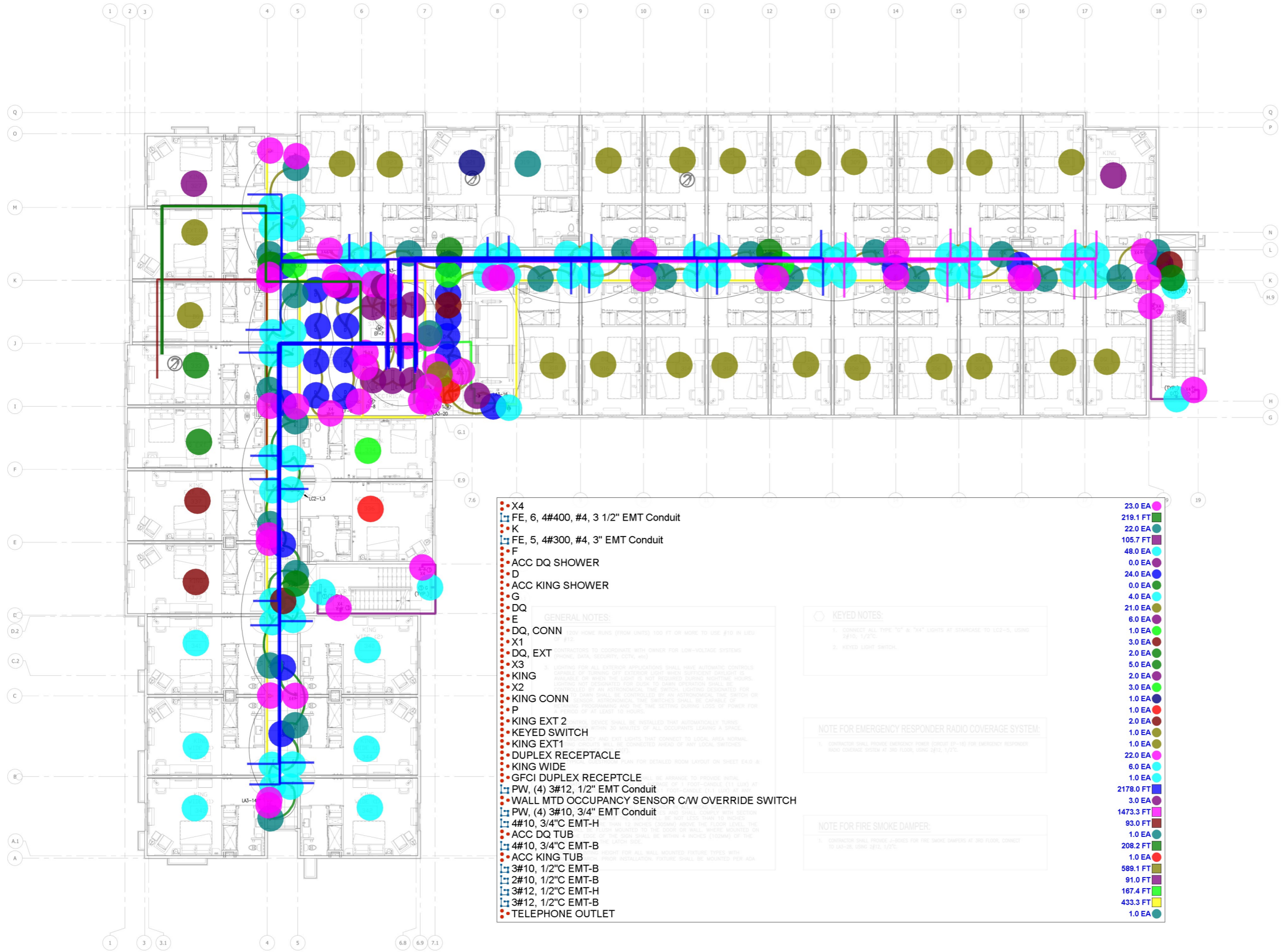
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IMPORTANT NOTICE TO ALL CONTRACTORS AND/OR SUBCONTRACTORS (COMPLETE BUILDING SYSTEMS AND/OR INSTALLATIONS)

IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

- YOU ARE A QUALIFIED CONTRACTOR AND YOU SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETELY TURNKEY SERVICE FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
- YOUR BID INCLUDES ALL THE COSTS FOR MATERIALS, PRODUCTS, EQUIPMENT, AND LABOR NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OF INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
- YOUR BID INCLUDES ALL COSTS FOR ANY SPECIAL HANDLING, DELIVERY, STORAGE, AND/OR UNLOADING OF MATERIALS, PRODUCTS, AND/OR EQUIPMENT AND/OR LABOR NECESSARY TO PROVIDE YOUR SERVICE AND/OR GUARANTEE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND HANDLING OF ALL MATERIALS, PRODUCTS, AND/OR EQUIPMENT.
- YOUR BID INCLUDES ALL COSTS FOR ANY SPECIAL HANDLING, DELIVERY, STORAGE, AND/OR UNLOADING OF MATERIALS, PRODUCTS, AND/OR EQUIPMENT AND/OR LABOR NECESSARY TO PROVIDE YOUR SERVICE AND/OR GUARANTEE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND HANDLING OF ALL MATERIALS, PRODUCTS, AND/OR EQUIPMENT.

ALL INFORMATION FOR THIS PROJECT WILL BE THE PROPERTY OF THE CLIENT AND SHALL NOT BE DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF THE CLIENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION, STORAGE, AND HANDLING OF ALL MATERIALS, PRODUCTS, AND/OR EQUIPMENT.



① LIGHTING & POWER THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

- X4
- FE, 6, 4#400, #4, 3 1/2" EMT Conduit
- K
- FE, 5, 4#300, #4, 3" EMT Conduit
- F
- ACC DQ SHOWER
- D
- ACC KING SHOWER
- G
- DQ
- DQ, CONN
- E
- X1
- DQ, EXT
- X3
- KING
- X2
- KING CONN
- P
- KING EXT 2
- KEYED SWITCH
- KING EXT 1
- DUPLEX RECEPTACLE
- KING WIDE
- GFCI DUPLEX RECEPTACLE
- PW, (4) 3#12, 1/2" EMT Conduit
- WALL MTD OCCUPANCY SENSOR C/W OVERRIDE SWITCH
- PW, (4) 3#10, 3/4" EMT Conduit
- 4#10, 3/4" EMT-H
- ACC DQ TUB
- 4#10, 3/4" EMT-B
- ACC KING TUB
- 3#10, 1/2" EMT-B
- 2#10, 1/2" EMT-B
- 3#12, 1/2" EMT-H
- 3#12, 1/2" EMT-B
- TELEPHONE OUTLET

GENERAL NOTES:

1. LOW VOLTAGE WIRING SHALL BE INSTALLED PER NFPA 70 (NEC).
2. CONTRACTORS TO COORDINATE WITH OWNER FOR LOW-VOLTAGE SYSTEMS (PHONE, DATA, SECURITY, CCTV, ETC).
3. LIGHTING FOR ALL EXTERIOR APPLICATIONS SHALL HAVE AUTOMATIC CONTROLS CAPABLE OF TURNING OFF EXTERIOR LIGHT WHEN SUFFICIENT DAYLIGHT IS AVAILABLE OR WHEN THE LIGHT IS NOT REQUIRED DURING NIGHTTIME HOURS. LIGHTING NOT DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH. LIGHTING DESIGNATED FOR DUSK TO DAWN OPERATION SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME SWITCH OR LIGHTING PROGRAMMING AND THE TIME SETTINGS DURING LOSS OF POWER FOR A MINIMUM OF 48 HOURS.
4. THIS DEVICE SHALL BE INSTALLED THAT AUTOMATICALLY TURNS OFF WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING A SPACE.
5. ALL CIRCUITS TO BE CONNECTED AHEAD OF ANY LOCAL SWITCHES.
6. SEE PLAN FOR DETAILED ROOM LAYOUT ON SHEET E-2.0 & E-2.1.
7. ALL WIRING SHALL BE ARRANGED TO PROVIDE MINIMUM CLEARANCES OF 1" (EXCEPT OVERHEAD 1 1/4") OVER ALL WORK SURFACES (1 1/2" OVER) AT ALL POINTS.
8. ALL WIRING SHALL BE INSTALLED WITH MINIMUM CLEARANCES OF 12 INCHES (OVERHEAD) ABOVE THE FLOOR LEVEL, THE CLEARANCE FROM THE TOP OF WALL SHALL BE NOT LESS THAN 18 INCHES.
9. ALL WALL MOUNTED TO THE SOOR OR WALL, WHERE MOUNTED ON EDGE OF THE SOOR SHALL BE WITHIN 4 INCHES (100MM) OF THE FACE OF THE WALL.
10. HEIGHT FOR ALL WALL MOUNTED FEATURE TYPES WITH PRIOR INSTALLATION, FEATURE SHALL BE MOUNTED PER ADA.

- KEYED NOTES:**
1. CONNECT ALL TYPE "3" & "3A" LIGHTS AT STAIRWELL TO L2-13, USING 3#10, 1/2" EMT.
 2. KEYED LIGHT SWITCH.
- NOTE FOR EMERGENCY RESPONDER RADIO COVERAGE SYSTEM:**
1. CONTRACTOR SHALL PROVIDE EMERGENCY POWER (EX-18) FOR EMERGENCY RESPONDER RADIO COVERAGE SYSTEM AT 3RD FLOOR, USING 2#12, 1/2".
- NOTE FOR FIRE SMOKE DAMPER:**
1. CONTRACTOR SHALL PROVIDE L-100S FOR FIRE SMOKE DAMPERS AT 3RD FLOOR, CONNECT TO L2-25, USING 2#12, 1/2".

- 23.0 EA ●
- 219.1 FT ●
- 22.0 EA ●
- 105.7 FT ●
- 48.0 EA ●
- 0.0 EA ●
- 24.0 EA ●
- 0.0 EA ●
- 4.0 EA ●
- 21.0 EA ●
- 6.0 EA ●
- 1.0 EA ●
- 3.0 EA ●
- 2.0 EA ●
- 5.0 EA ●
- 2.0 EA ●
- 3.0 EA ●
- 1.0 EA ●
- 1.0 EA ●
- 2.0 EA ●
- 1.0 EA ●
- 1.0 EA ●
- 22.0 EA ●
- 6.0 EA ●
- 1.0 EA ●
- 2178.0 FT ●
- 3.0 EA ●
- 1473.3 FT ●
- 93.0 FT ●
- 1.0 EA ●
- 208.2 FT ●
- 1.0 EA ●
- 589.1 FT ●
- 91.0 FT ●
- 167.4 FT ●
- 433.3 FT ●
- 1.0 EA ●

NO.	DESCRIPTION	DATE	BY

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FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

LIGHTING & POWER
THIRD FLOOR PLAN

SHEET E2.2

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IF A WRITTEN CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:
1. YOUR AGREEMENT TO PROVIDE CONTRACTOR PRODUCTS, EQUIPMENT, MATERIALS AND SERVICES NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OF INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
2. YOUR AGREEMENT TO BE RESPONSIBLE FOR THE QUALITY, WORKMANSHIP, AND COMPLETION OF YOUR SCOPE OF WORK AND TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SERVICES.
3. YOUR AGREEMENT TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SERVICES.
4. YOUR AGREEMENT TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SERVICES.
5. YOUR AGREEMENT TO BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND SERVICES.

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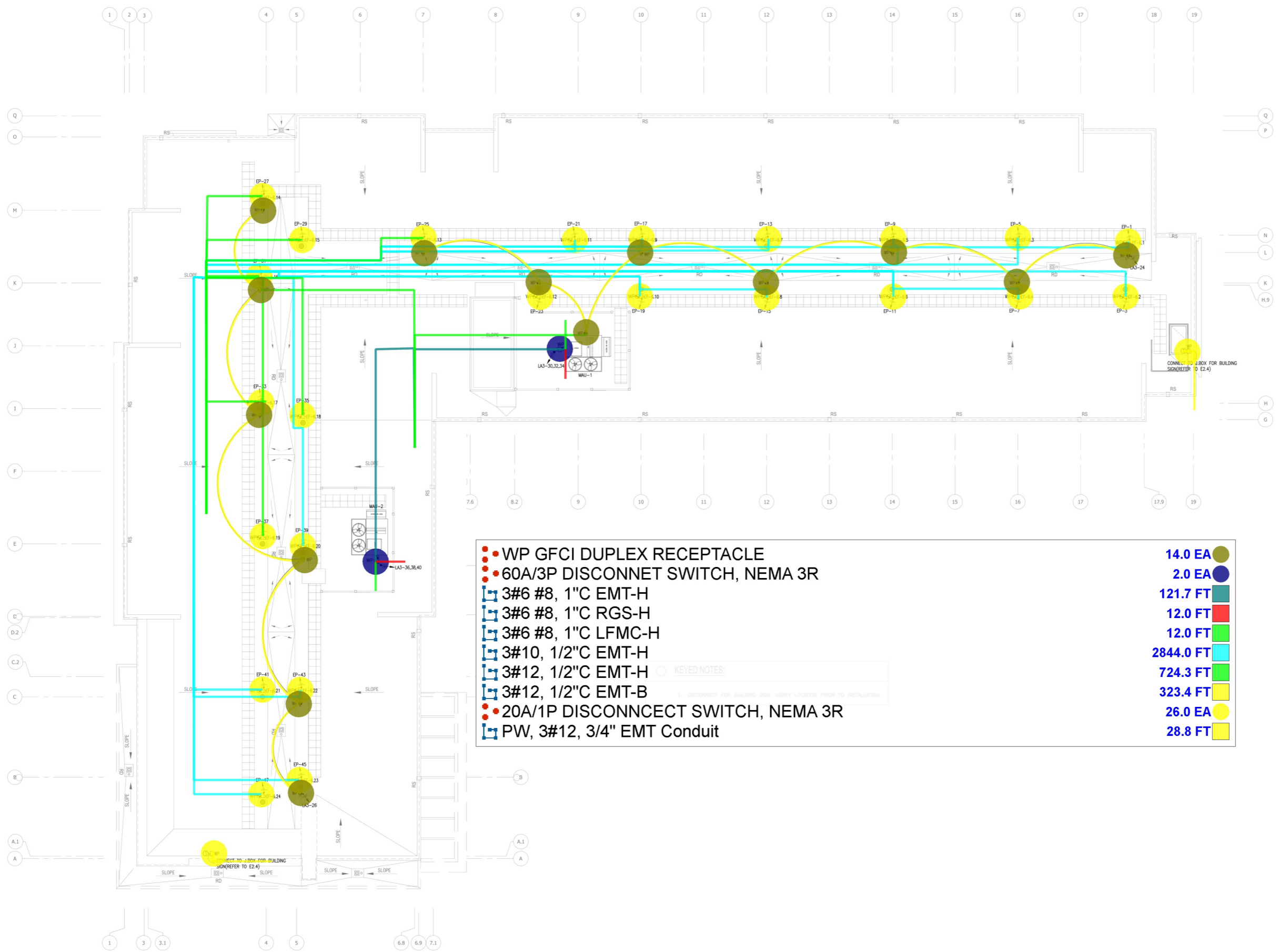


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

POWER
ROOF PLAN

SHEET E2.3



- WP GFCI DUPLEX RECEPTACLE
 - 60A/3P DISCONNECT SWITCH, NEMA 3R
 - 3#6 #8, 1" C EMT-H
 - 3#6 #8, 1" C RGS-H
 - 3#6 #8, 1" C LFMC-H
 - 3#10, 1/2" C EMT-H
 - 3#12, 1/2" C EMT-H
 - 3#12, 1/2" C EMT-B
 - 20A/1P DISCONNECT SWITCH, NEMA 3R
 - PW, 3#12, 3/4" EMT Conduit
- | |
|-------------|
| ● 14.0 EA |
| ● 2.0 EA |
| ■ 121.7 FT |
| ■ 12.0 FT |
| ■ 12.0 FT |
| ■ 2844.0 FT |
| ■ 724.3 FT |
| ■ 323.4 FT |
| ● 26.0 EA |
| ■ 28.8 FT |

**POWER
ROOF PLAN**
SCALE: 1/8"=1'-0"

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2. YOUR BID INCLUDES ALL THE COSTS FOR MATERIALS, PRODUCTS, EQUIPMENT, LABOR AND APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
3. YOUR BID INCLUDES ALL THE COSTS FOR PERMITS, INSPECTIONS, APPROVALS, AND APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
4. YOUR BID INCLUDES ALL THE COSTS FOR PERMITS, INSPECTIONS, APPROVALS, AND APPROVALS NECESSARY TO PROVIDE A COMPLETE SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
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FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

LIGHTING
EXTERIOR ELEVATION



① LIGHTING FRONT ELEVATION
SCALE: 3/32"=1'-0"



① LIGHTING RIGHT ELEVATION
SCALE: 3/32"=1'-0"



① LIGHTING LEFT ELEVATION
SCALE: 3/32"=1'-0"

- RECESSED CAN LIGHT EQUAL TO INTERLUX MODEL OMRA RSS-E96098 15.0 EA
- WP JUNCTION BOX 2.0 EA



① LIGHTING REAR ELEVATION
SCALE: 3/32"=1'-0"

- KEYED NOTES:
1. LOCATION FOR SIGN CONNECTION. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
 2. RECESSED CAN LIGHT EQUAL TO INTERLUX MODEL OMRA RSS-E96098-60-S WITH EXTENDED STAINLESS STEEL MOUNTING SCREENS. VERIFY LOCATION WITH FRANCHISE/ ARCH. PRIOR TO INSTALLATION. CONNECT TO L23-22, USING 3/16" 1/2".

IMPORTANT NOTICE TO ALL CONTRACTORS AND/OR SUBCONTRACTORS (COMPLETE BUILDING SYSTEMS AND/OR INSTALLATIONS)

IF AWARD A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

1. YOU ARE A QUALIFIED CONTRACTOR AND/OR SUBCONTRACTOR RESPONSIBLE FOR PROVIDING A COMPLETE TURNKEY SYSTEM TO THE OWNER OR PROFESSIONAL FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.

2. YOUR BID INCLUDES ALL THE COSTS OF MATERIALS, PRODUCTS, EQUIPMENT, SERVICES AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

3. YOUR BID DOES NOT INCLUDE ANY OTHER INFORMATION OR REQUIREMENTS APART FROM THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND/OR PLUMBING DRAWINGS, AND YOURS. THESE DRAWINGS ARE CONSIDERED TO BE THE MOST COMPLETE AND GENERAL INFORMATION. THE COMPLETION OF YOUR WORK MAY INCLUDE OTHER ITEMS, PRODUCTS, MATERIALS, PRODUCTS, LABORS, ETC.

4. YOUR BID SHALL BE SUBJECT TO THE LOCAL, STATE, FEDERAL, AND/OR INTERNATIONAL LAWS AND REGULATIONS. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PROJECT.

5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LOCAL, STATE, FEDERAL, AND/OR INTERNATIONAL LAWS AND REGULATIONS. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PROJECT.

NO.	DESCRIPTION	DATE	BY

100% DRAWINGS SUBMISSION



HOTELS, HOUSING & MIXED USE

DRAWING QUESTIONS
CA@MWTUSA.COM
1-800-717-5816

AUG. 11, 2020



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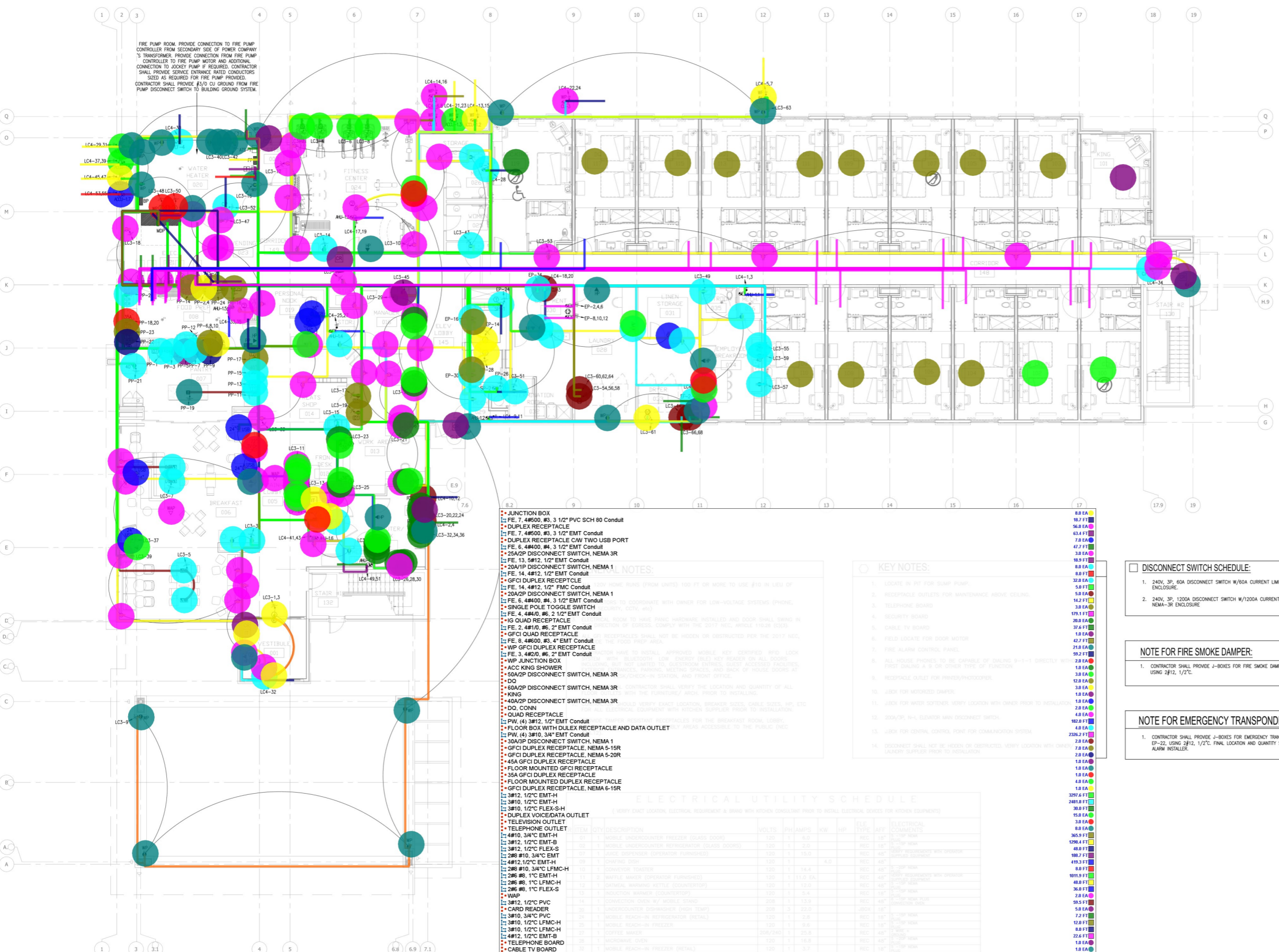


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

POWER FIRST FLOOR PLAN

SHEET E3.0



FIRE PUMP ROOM. PROVIDE CONNECTION TO FIRE PUMP CONTROLLER FROM SECONDARY SIDE OF POWER COMPANY'S TRANSFORMER. PROVIDE CONNECTION FROM FIRE PUMP CONTROLLER TO FIRE PUMP MOTOR AND ADDITIONAL CONNECTION TO JOCKEY PUMP IF REQUIRED. CONTRACTOR SHALL PROVIDE SERVICE ENTRANCE W/ADDITIONAL CONDUITS AND SERVICE W/ADDITIONAL CONDUITS AS REQUIRED FOR FIRE PUMP PROVIDED. CONTRACTOR SHALL PROVIDE #3/0 CU GROUND FROM FIRE PUMP DISCONNECT SWITCH TO BUILDING GROUND SYSTEM.

- JUNCTION BOX
- FE 7, 4#900, #3, 3 1/2" PVC SCH 80 Conduit
- DUPLEX RECEPTACLE
- FE 7, 4#900, #3, 3 1/2" EMT Conduit
- DUPLEX RECEPTACLE C/W TWO USB PORT
- FE 6, 4#400, #3, 3 1/2" EMT Conduit
- 25A/2P DISCONNECT SWITCH, NEMA 3R
- FE 13, 5#12, 1/2" EMT Conduit
- 20A/1P DISCONNECT SWITCH, NEMA 1
- FE 14, 4#12, 1/2" EMT Conduit
- GFCI DUPLEX RECEPTACLE
- FE 14, 4#12, 1/2" FMC Conduit
- 20A/2P DISCONNECT SWITCH, NEMA 1
- FE 6, 4#400, #3, 3 1/2" EMT Conduit
- SINGLE POLE TOGGLE SWITCH
- FE 4, 4#10, #6, 2 1/2" EMT Conduit
- 10 QUAD RECEPTACLE
- FE 2, 4#10, #6, 2" EMT Conduit
- GFCI QUAD RECEPTACLE
- FE 8, 4#600, #3, 4" EMT Conduit
- W/P GFCI DUPLEX RECEPTACLE
- FE 3, 4#20, #6, 2" EMT Conduit
- W/P JUNCTION BOX
- ACC KING SHOWER
- 60A/2P DISCONNECT SWITCH, NEMA 3R
- DO
- 40A/2P DISCONNECT SWITCH, NEMA 3R
- DO
- DO
- 30A/2P DISCONNECT SWITCH, NEMA 1
- GFCI DUPLEX RECEPTACLE, NEMA 5-15R
- GFCI DUPLEX RECEPTACLE, NEMA 5-20R
- 45A GFCI DUPLEX RECEPTACLE
- FLOOR MOUNTED GFCI RECEPTACLE
- 35A GFCI DUPLEX RECEPTACLE
- FLOOR MOUNTED DUPLEX RECEPTACLE
- GFCI DUPLEX RECEPTACLE, NEMA 6-15R
- 3#12, 1/2" EMT-H
- 3#10, 1/2" EMT-H
- 3#10, 1/2" FLEX-S
- 2#6 #10, 3/4" EMT
- 4#12, 1/2" EMT-H
- 2#6 #10, 3/4" LFMC-H
- 2#6 #8, 1" EMT-H
- 2#6 #8, 1" LFMC-H
- 2#6 #8, 1" FLEX-S
- W/P
- 3#12, 1/2" PVC
- CARD READER
- 3#10, 3/4" PVC
- 3#10, 1/2" LFMC-H
- 3#10, 1/2" LFMC-H
- 4#12, 1/2" EMT-B
- TELEPHONE BOARD
- CABLE TV BOARD
- FIRE ALARM CONTROL PANEL
- 5#10, 3/4" EMT-H
- INTERCOM
- 4#12, 1/2" PVC-H
- SECURITY BOARD
- 3#10, 1/2" EMT-B
- 2#6 #10, 3/4" FLEX-S

ELECTRICAL UTILITY SCHEDULE

(VERIFY EXACT LOCATION, ELECTRICAL REQUIREMENT & BRAND WITH DESIGN CONSULTANT PRIOR TO METAL ELECTRICAL SERVICES FOR SHOWN EQUIPMENT)

ITEM NO.	DESCRIPTION	VOLTS	PH	AMPS	KVA	W/P	FILE TYPE	ELECTRICAL COMMENTS
01	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
02	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
03	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
04	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
05	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
06	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
07	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
08	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
09	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
10	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
11	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
12	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
13	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
14	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
15	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
16	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
17	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
18	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
19	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
20	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
21	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
22	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
23	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
24	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
25	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
26	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
27	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
28	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
29	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	
30	1x 1x 2000 WATT UNDER-COUNTER REFRIGERATOR (GRADE DOORS)	120	1	8.3		NO	REF	

POWER FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

DISCONNECT SWITCH SCHEDULE:

- 240V, 3P, 60A DISCONNECT SWITCH W/60A CURRENT LIMITING CLASS RK1 FUSES (22KA) IN NEMA-1 ENCLOSURE.
- 240V, 3P, 1200A DISCONNECT SWITCH W/1200A CURRENT LIMITING CLASS RK1 FUSES (42KA) IN NEMA-3R ENCLOSURE.

NOTE FOR FIRE SMOKE DAMPER:

- CONTRACTOR SHALL PROVIDE J-BOXES FOR FIRE SMOKE DAMPERS AT 1ST FLOOR, CONNECT TO LC3-38, USING 2#12, 1/2".

NOTE FOR EMERGENCY TRANSPONDER:

- CONTRACTOR SHALL PROVIDE J-BOXES FOR EMERGENCY TRANSPONDER AT 1ST FLOOR, CONNECT TO EP-22, USING 2#12, 1/2". FINAL LOCATION AND QUANTITY SHALL BE DETERMINED BY THE FIRE ALARM INSTALLER.

IMPORTANT NOTICE TO ALL CONTRACTORS AND/OR SUBCONTRACTORS (COMPLETE BUILDING SYSTEMS AND/OR INSTALLATIONS)

- IF A VENDOR CONTRACT FOR ANY PORTION OF WORK NECESSARY TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:
- YOU WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL LOCAL AND STATE AGENCIES FOR THE TYPE OF WORK AND SCOPE OF THE PROJECT.
- YOUR WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, AND STANDARDS, INCLUDING BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70E, AND THE NATIONAL ELECTRICAL QUALITY INSURANCE BOARD (NEQIB) STANDARDS.
- YOUR WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, ORDINANCES, AND STANDARDS, INCLUDING BUT NOT LIMITED TO, THE NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70E, AND THE NATIONAL ELECTRICAL QUALITY INSURANCE BOARD (NEQIB) STANDARDS.
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NO.	DESCRIPTION	DATE	BY

100% DRAWINGS SUBMISSION



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DRAWING QUESTIONS
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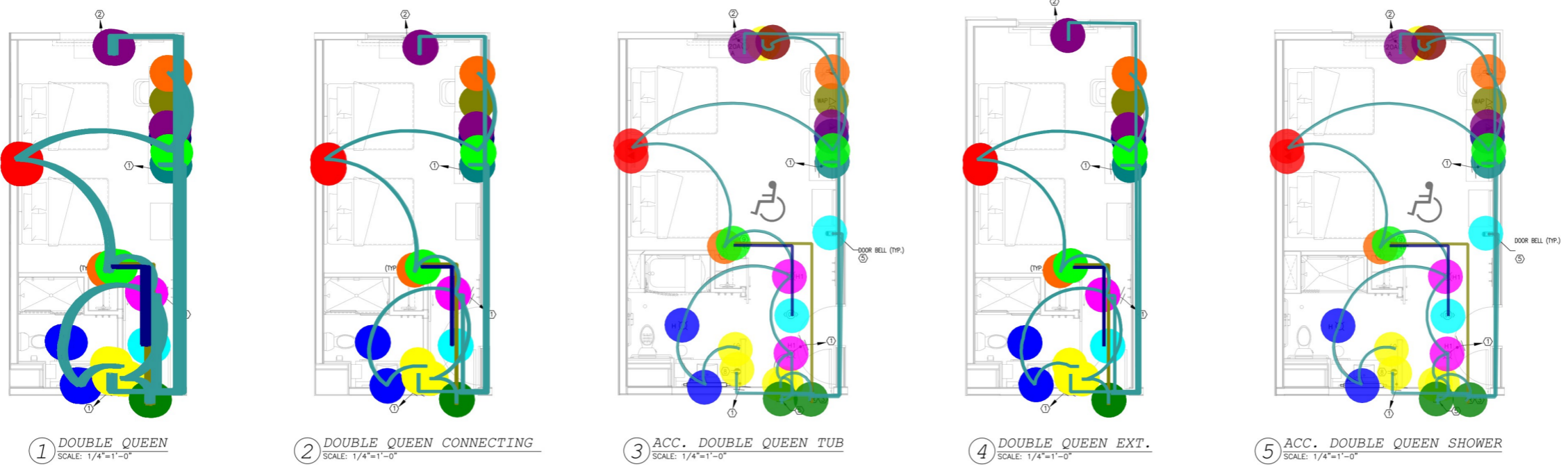


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

ELECTRICAL
TYPICAL GUESTROOM
PLAN

SHEET E4.1



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

2 DOUBLE QUEEN CONNECTING
SCALE: 1/4"=1'-0"

3 ACC. DOUBLE QUEEN TUB
SCALE: 1/4"=1'-0"

4 DOUBLE QUEEN EXT.
SCALE: 1/4"=1'-0"

5 ACC. DOUBLE QUEEN SHOWER
SCALE: 1/4"=1'-0"

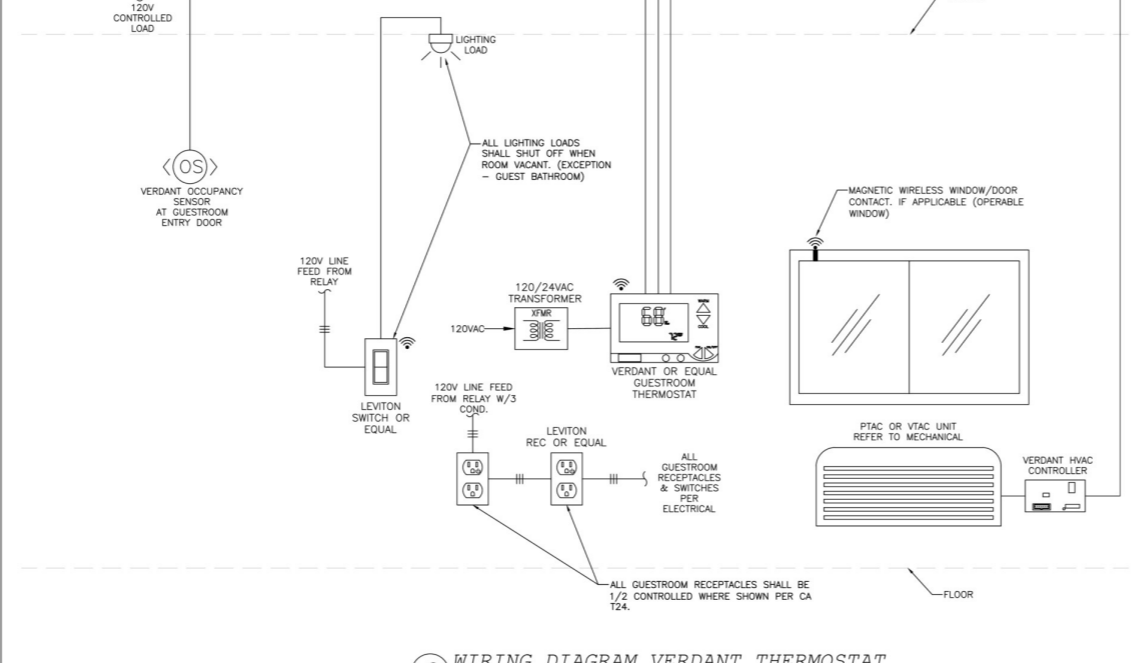
ELECTRICAL OUTLET HEIGHTS (U.N.O.)

TYPICAL WALL OUTLET	- 18" A.F.F.
BATHROOM VANITY OUTLET	- 45" A.F.F.
GFI OUTLET AT DESK/AP	- 45" A.F.F. (48" A.F.F. MAX.)

RESPONSIBILITY MATRIX FOR GUESTROOM VERDANT THERMOSTAT SYSTEM

DESCRIPTION OF WORK	RESPONSIBLE PARTY
GENERAL CONTRACTOR RESPONSIBILITY TO VERIFY EXISTING WIRING & PANELS	ELECTRICAL CONTRACTOR
THROW-OUT WINDOW SWITCH CABLEING AND TERMINATION	ELECTRICAL CONTRACTOR
THROW-OUT WINDOW SWITCH CABLEING & INSTALLATION	DOOR INSTALLATION CONTRACTOR
THROW-OUT WINDOW SWITCH CABLEING & TERMINATION TO TYPICAL WIRE	Mechanical Contractor
WALL THERMOSTAT INSTALLATION & SERVICE	Mechanical Contractor
THERMOSTAT PRE-PROGRAMMING	MECHANICAL
WALL THERMOSTAT & COMPONENTS PURCHASE	Mechanical Contractor

- LF, H
- LF, A
- LC, Single Pole Switch
- P, Junction Box (For VERDANT Thermostat With Built-In Occupancy Sensor)
- LC, Occupancy Sensor Switch
- P, Door Contact & ZETTLER RELAY #AZ2280 WITH Built In Occupancy Sensor
- P, Duplex Receptacle, GFCI, With Built-In White Night Light
- LF, H1
- P, Half Switched Duplex Receptacle
- P, 20A Special Purpose Receptacle
- P, Quad-Plex Receptacle
- P, Half Switched Quad-Plex Receptacle
- P, Duplex Receptacle, GFCI
- LV, Data Outlet
- LV, Telephone Outlet
- LV, Television Outlet
- LV, Voice/Data Outlet
- Pw, 2#18, 1/2" EMT Conduit
- Pw, 3#22, 1/2" EMT Conduit
- PW, 3#12, 1/2" EMT Conduit
- Misc, Junction Box
- P, Door Bell With Button & ON/OFF Switch
- P, Push Button (For Doorbell)



9 WIRING DIAGRAM VERDANT THERMOSTAT
SCALE: N.T.S.

NOTES:

- A. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.
 - B. ELECTRICAL OUTLETS FOR PTACs WILL BE INSTALLED UNDERNEATH SUB-BASE.
 - C. ALL 120V HOME RUNS (FROM UNITS) 100 FT OR MORE TO USE #10 IN LIEU OF #12.
- 64.0 EA 6.0A LOCKING TYPE RECEPTACLES IN GUEST ROOMS AND GUEST ROOMS SHALL BE TAMPER RESISTANT.
 - 64.0 EA 6.0A BATHROOM AREA MUST BE DAMP LOCATION RATED AND W/ GFI LENSES
 - 132.0 EA 6.0A CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EQUIPMENTS WITH ARCH DRAWINGS & FRANCHISE PRIOR TO INSTALLATION.
 - 64.0 EA 6.0A AND ENTRANCE LIGHTS THAT'S CONTROLLED BY "CONNECTED" BE NEUTRAL WIRING.
 - 64.0 EA 6.0A WIRE-WIRE POWER CONNECTION FOR ELECTRICAL SUPPLY OF 120V AND HIGHER, OR WHERE THE WIRING AND PLUG CONNECTION CONCEALED IN THE STANDARD SUB-BASE, EXPOSED POWER RECEPTACLES ARE NOT ALLOWED.
 - 66.0 EA 6.0A BOX SIZE IN A FIRE-RATED WALL SHALL BE 4" X 4" SQUARE. DO NOT BOXES BACK TO BACK IN WALLS. IN NONFIRE-RATED AND FIRE-RATED WALLS, PROVIDE NOT LESS THAN 6 INCHES (150-MM) SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF WALL NOT LESS THAN 24 INCHES (610-MM) HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED IN OPPOSITE SIDES OF FIRE-RATED WALLS.
 - 64.0 EA 6.0A FAULT BREAKERS FOR BRANCH CIRCUITS TO COMPLY WITH 125 & 210.19

GUEST ROOM REQUIREMENTS:

- 2.0 EA 2.0 EA SHALL VERIFY WITH FRANCHISE / ARCHITECTURAL PLAN FOR REQUIREMENTS.
 - 2.0 EA 2.0 EA SWITCHES IN GUESTROOM SHALL BE JASCO ZIGBEE IN-WALL (588) OR LEVITON DL155-1BZ. OUTFIT ALL LIGHT SWITCHES WITH NEUTRAL WIRE.
- PROVIDE CAT 6 FOR WAP, TELEPHONE AND TV. CERTIFIED PREEXISTING CAT6 CABLES ARE ALLOWED IN CONVERSIONS AND EXISTING PROPERTIES
 - PROVIDE COAX AND POWER WILL BE BELOW TV AND BEHIND FURNITURE. SECURED TO WALL. TV TO BE MOUNTED ON PANEL. WAP BELOW DESK. TYP. FOR ALL CONNECTED GUESTROOMS.
 - THE AP AND EDGE CONTROLLER CAN SHARE THE SAME CAT6 CABLE.
 - THE EDGE CONTROLLER WILL BE MOUNTED TO THE BACK OF THE TV IN MOST CASES. IT WILL NEED 2"-3" CLEAR BEHIND THE TV.
 - THE NUMBER OF APS AND THEIR LOCATIONS WILL BE DETERMINED BY THE HILTON APPROVED WAP SUPPLIER - APS MAY BE PROVIDED IN EVERY ROOM OR EVERY OTHER ROOM DEPENDING UPON EXACT PLACEMENT AND SIGNAL.
 - OUTLET BOXES MUST BE PROPERLY SOUND-PROOFED TO MEET BRAND STANDARD'S MINIMUM SOUND RATINGS.
 - LIGHT SWITCHES MUST INCLUDE A NEUTRAL WIRE IN THE BOX TO WORK WITH CONNECTED ROOM. DUPLEX POWER OUTLET SHOULD NOT BE TIED TO THERMOSTAT WITH BUILT-IN OCCUPANCY SENSOR SYSTEM.
 - THE DUPLEX POWER OUTLET USED FOR THE TV AND EDGE CONTROLLER SHOULD NOT BE TIED TO THERMOSTAT WITH BUILT-IN OCCUPANCY SENSOR SYSTEM.

KEYED NOTES:

1. CONNECT TO 20A/1P BREAKER IN PANEL AS INDICATED ON PANEL SCHEDULE
2. CONNECT TO 20A/2P GFCI BREAKER IN PANEL AS INDICATED ON PANEL SCHEDULE
3. VERDANT THERMOSTAT WITH BUILT IN OCCUPANCY SENSOR, DOOR CONTACT AND ZETTLER RELAY #AZ2280 TO BE WIRED ABOVE ACCESSIBLE CEILING IN CORRIDOR. ONLY 1 HIGH EFFICACY FIXTURE SHALL BE WIRED AHEAD OF THERMOSTAT RELAY. QUADS TO HAVE 1 DUPLEX CONTROLLED, 1 DUPLEX UNCONTROLLED WHERE SHOWN 1/2 HOT SHADED.
4. WHERE RECEPTACLES AND LIGHTS ARE SERVED BY A COMMON CIRCUIT, RECEPTACLES SHALL BE KEPT UNSWITCHED UNLESS NOTED OTHERWISE.
5. DOOR BELL (C/W BUTTON & ON/OFF SWITCH) SHALL BE PROVIDED ONLY IN COMMUNICATION FEATURE ROOMS ONLY.
6. PROVIDE DATA OUTLET UNDER ALL GUESTROOM DESKS FOR WIRELESS ACCESS POINT. WHEN WIRED INTERNET FOR GUEST'S USE IS DESIRED, PROVIDE A SEPARATE DATA UNDER DESK WITH A GROMMET IN THE TOP AND A WEIGHTED PUCK ON TOP OF DESK. BOXES MUST BE SEPARATED BY 6".
7. PROVIDE J-BOX AND SWITCH FOR MOTORIZED SHADE IN ADA ROOM. VERIFY LOCATION WITH OWNER PRIOR TO INSTALLATION. ALL WIRING MUST BE CONCEALED FROM GUEST VIEW.
8. AT GUESTROOM BATHROOM, PROVIDE A BUILT-IN WHITE LED NIGHTLIGHT (CAN BE INTEGRATED WITH GFI RECEPTACLE)
9. VERDANT THERMOSTAT WITH BUILT IN OCCUPANCY SENSOR. REFER TO MECHANICAL DRAWINGS (M4.0-M4.1) FOR EXACT LOCATION OF THERMOSTAT.

NO.	DESCRIPTION	DATE	BY

100% DRAWINGS
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HOTELS, HOUSING & MIXED USE

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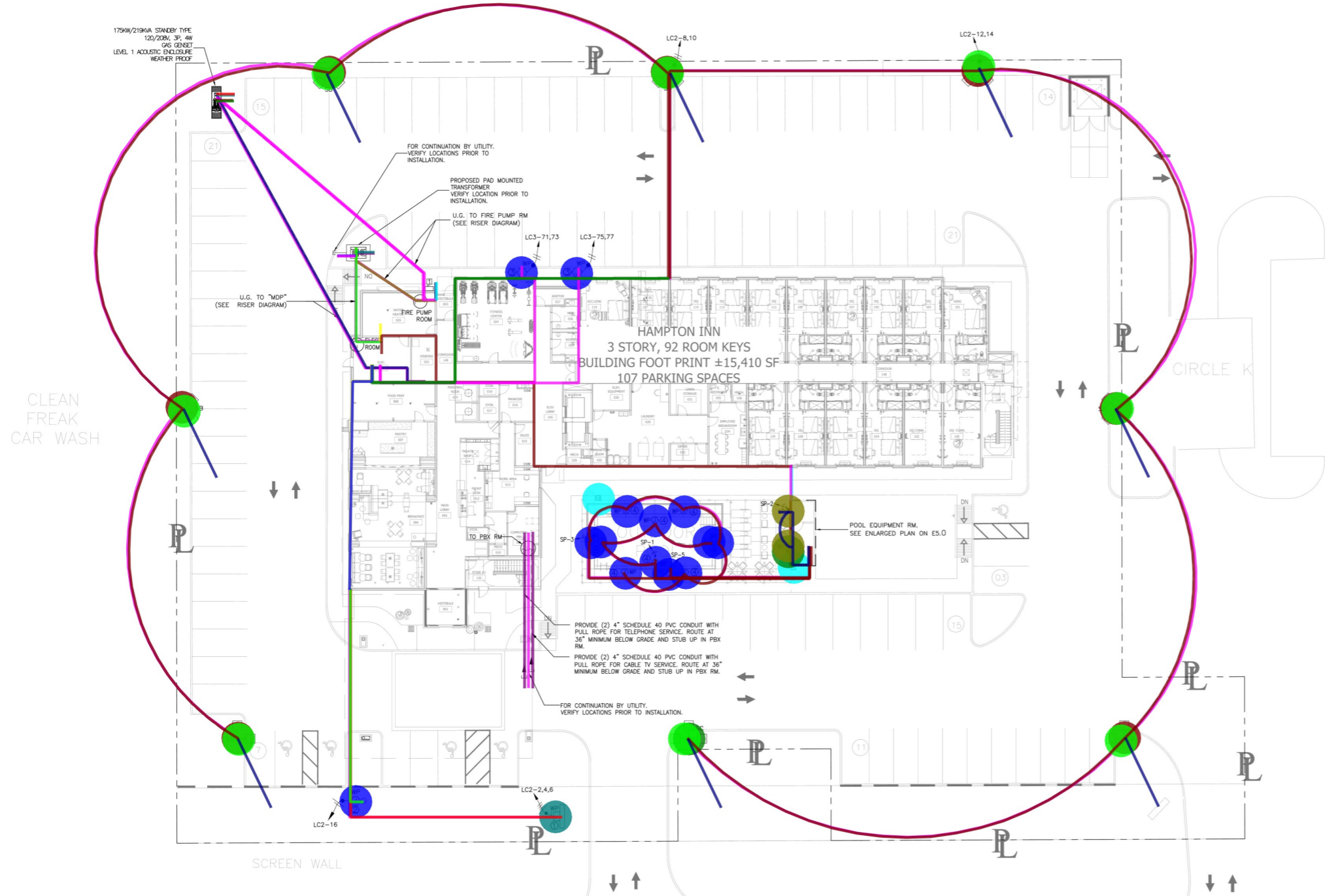


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
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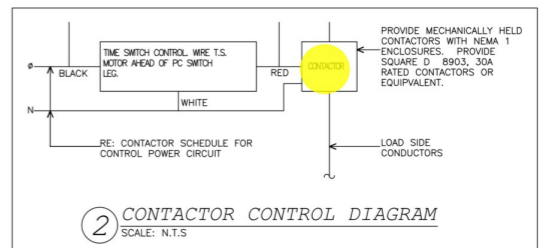
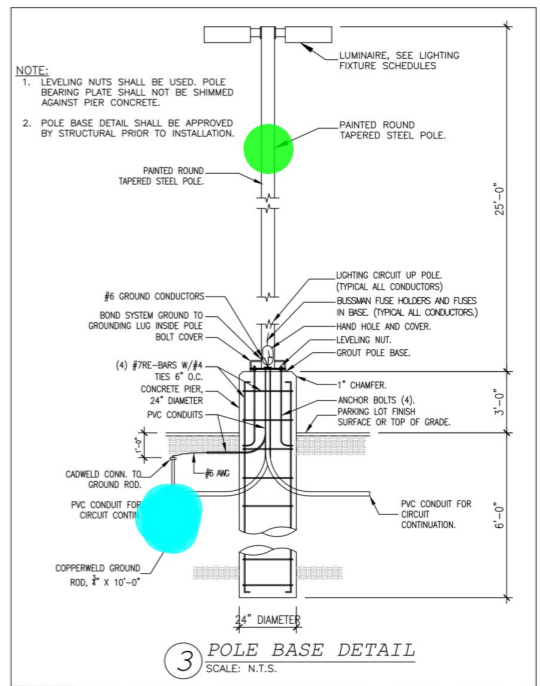
ELECTRICAL
SITE PLAN

SHEET E5.0



- DISCONNECT SWITCH SCHEDULE:**
- 240V, 3P, 1200A DISCONNECT SWITCH W/1200A CURRENT LIMITING CLASS RK1 FUSES (42kA) IN NEMA-3R ENCLOSURE.

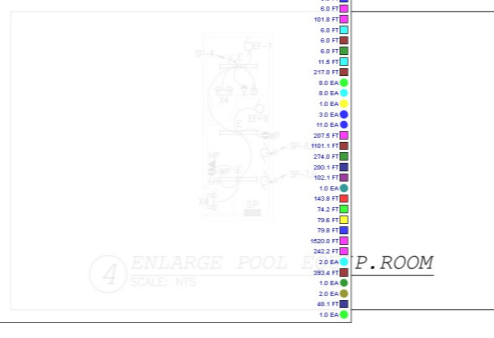
- GENERAL SITE NOTES:**
- FOR PARKING LOT LIGHTING CONTROL DIAGRAM SEE #2, E5.0
 - PROVIDE METER AND CT'S PER UTILITY CO. SPECIFICATIONS.
 - INSTALL PAD MOUNTED TRANSFORMER PER UTILITY CO. SPECIFICATIONS. COORDINATE ALL OTHER REQUIREMENTS WITH LOCAL UTILITY CO.
 - CONTRACTOR SHALL PROVIDE 5" SCHEDULE 80 PVC CONDUITS WITH PULL ROPE AT A MINIMUM OF 30" BELOW GRADE. TERMINATE CONDUIT AT A LOCATION SPECIFIED BY UTILITY CO. COORDINATE ALL REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY SERVICES TO THE BUILDING WITH THEIR RESPECTIVE PROVIDERS. FAILURE TO DO SO WILL NOT RESULT IN ANY EXTRA FINANCIAL COMPENSATION FROM THE OWNER. CONTRACTOR SHALL HAVE ALL UTILITY SERVICE REQUIREMENTS IN THE BASE BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR BACK FILLING, TRENCHING AND SITE RESTORATION. THE SELECT BACKFILL MATERIAL MUST NOT CONTAIN ANY SHARP OR FOREIGN OBJECTS.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE AS NECESSARY ALL UNDERGROUND LOCATIONS WITH OTHER TRADES PRIOR TO DIGGING BEING DONE.
 - THE CONTRACTOR SHALL INCLUDE IN THE BID ALL ELECTRIC UTILITY FEES TO PROVIDE ELECTRICAL SERVICE TO THE PROJECT.
 - CONTRACTOR SHALL PROVIDE ONE CONDUIT LOCATED IN BETWEEN TWO SPACES SHALL SERVE TWO SPACES. SHOW A MINIMUM OF (1) ONE, 1 INCH CONDUIT IN BETWEEN TWO TYPICAL PARKING SPACES. THE CONDUIT AND RELATED SPACES MAY BE INCLUDED IN THE IDENTIFIED CLEAN AIR/ VANPOOL/EV SPACES COUNT.



- KEY NOTES:**
- DISCONNECT FOR MAIN SIGN. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ CIVIL PRIOR TO INSTALLATION.
 - J.BOX FOR FLAG POLE. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ CIVIL PRIOR TO INSTALLATION.
 - J.BOX FOR ELECTRIC VEHICLE CHARGERS. CONTRACTOR SHALL VERIFY LOCATION WITH THE CIVIL ENGINEERING/ OWNER PRIOR TO INSTALL 1-1/2" CONDUIT FOR THE FUTURE ELECTRIC VEHICLE CHARGERS. THOSE CONDUITS HAVE TO FINISH INTO AN ENCLOSURE, JUNCTION BOX ETC.
 - CONNECT LIGHTS PROVIDED BY THE POOL CONTRACTOR. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
 - J.BOX FOR POOL LIFT. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.

- NOTES FOR POOL:**
- POOL TO BE PERMITTED SEPARATELY.
 - SWIMMING POOL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES/EQUIPMENTS AND ASSOCIATED WIRING IN ACCORDANCE WITH ARTICLE 680 (NEC 2017).
 - A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN THE BRANCH CIRCUIT SUPPLYING UNDERWATER LUMINAIRES (FIXTURES) OPERATING AT MORE THAN 15 VOLTS, SO THAT THERE IS NO SHOCK HAZARD DURING RELAMPING. SEE NEC 680.23(A)(3).
 - ELECTRICAL EQUIPMENT INSTALLED IN POOL EQUIPMENT ROOMS TO BE RATED FOR USE IN CORROSIVE ENVIRONMENTS.

- SLF_SB, Pole Light 2 Light, SARIN SARIN ENERGY LIGHTING #SES-SBS-3000-150.T3
- SLF_SC, Pole Light 3 Light, SARIN SARIN ENERGY LIGHTING #SES-SBS-3000-150.T3
- FE_7_48500_R3, 3 1/2" PVC SCH 80 Conduit
- FE_7_48500_R3, 3 1/2" EMT Conduit
- FE_7_48500_R3, 3 1/2" RGS Conduit
- FE_11_3_48600_4, 4" PVC SCH 80 Conduit (2" Concrete)
- FE_11_3_48600_4, 4" EMT Conduit
- FE_11_3_48600_4, 4" LFMC Conduit
- FE_11_3_48600_4, 4" RGS Conduit
- FE_10_5_48600_4, 4" PVC SCH 80 Conduit (2" Concrete)
- FE_10_5_48600_4, 4" EMT Conduit
- FE_10_5_48600_4, 4" LFMC Conduit
- FE_12_48400_3, 1 1/2" PVC SCH 80 Conduit (2" Concrete)
- FE_12_48400_3, 1 1/2" EMT Conduit
- FE_12_48400_3, 1 1/2" LFMC Conduit
- FE_12_48400_3, 1 1/2" RGS Conduit
- FE_1_481_R3, 1 1/2" PVC SCH 80 Conduit
- FE_1_481_R3, 1 1/2" EMT Conduit
- SLF_287 Dia Concrete Base (For Light Pole)
- RND_3/4" X 10' CU Chd Ground Rod
- LC_30A Mechanically Held Contactor, NEMA 1, SQUARE D 8903
- MSC_Junction Box, WP
- MSC_Junction Box, WP
- MSC_Junction Box, WP
- PW_286_#10, 1 1/2" EMT Conduit
- SLFW_3#10, 1" PVC SCH 40 Conduit
- SLFW_3#10, 1" EMT Conduit
- SLFW_3#10
- LV_20 4" PVC SCH 40 Conduit With Pulling
- DS_20A/SP Disconnect Switch, NEMA 3R
- PW_4#10, 3/4" PVC SCH 40 Conduit
- PW_3#10, 3/4" PVC SCH 40 Conduit
- PW_4#10, 3/4" EMT Conduit
- PW_3#10, 3/4" EMT Conduit
- MSC_Trenching
- MSC_Trenching
- LV_Cable Raceway, WP
- PW_3#12, 3/4" PVC SCH 40 Conduit
- LV_Telephone Outlet
- P, Duplex Receptacle, GFCI, WP
- PW_3#12, EMT Conduit
- SLF_25 Painted Round Tapered Steel Pole



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IMPORTANT NOTICE TO ALL CONTRACTORS AND OR SUBCONTRACTORS (COMPLETE BUILDING SYSTEMS AND OR INSTALLATIONS)
 1. YOU HAVE A CONTRACT FOR AN OPEN DESIGN OF WORK. YOU ARE AGREEING TO THE FOLLOWING TERMS:
 2. YOUR BID IS SUBJECT TO THE TERMS OF THE OPEN DESIGN OF WORK. YOU WILL NOT BE RESPONSIBLE FOR THE TIME OF WORK AND/OR FOR THIS PROJECT.
 3. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK.
 4. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK.
 5. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK. YOUR BID MUST INCLUDE ALL THE OPEN DESIGN OF WORK.

NO.	DESCRIPTION	DATE	BY

100% DRAWINGS SUBMISSION



HOTELS, HOUSING & MIXED USE

DRAWING QUESTIONS
CA@MWTUSA.COM
1-800-717-5816

AUG. 11, 2020



WARNING:
IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF THE ARCHITECT, TO ALTER OR REPRODUCE THESE DRAWINGS IN ANY WAY.



FLORENCE BOULEVARD
CASA GRANDE, AZ

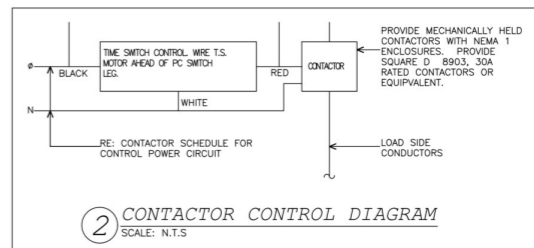
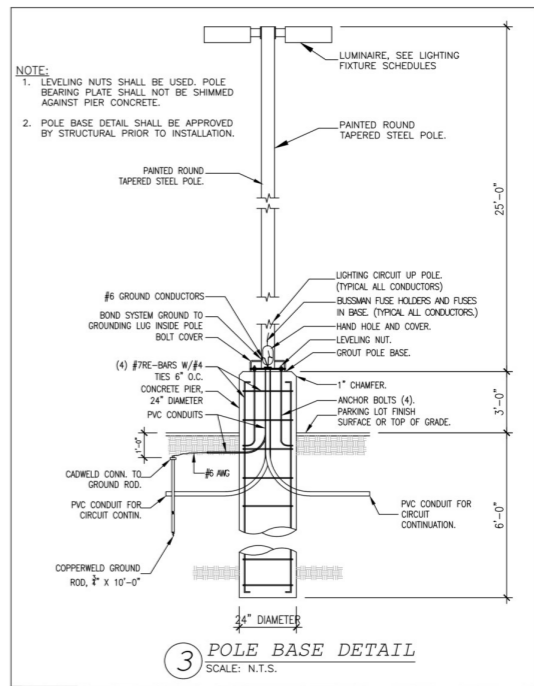
PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

ELECTRICAL SITE PLAN

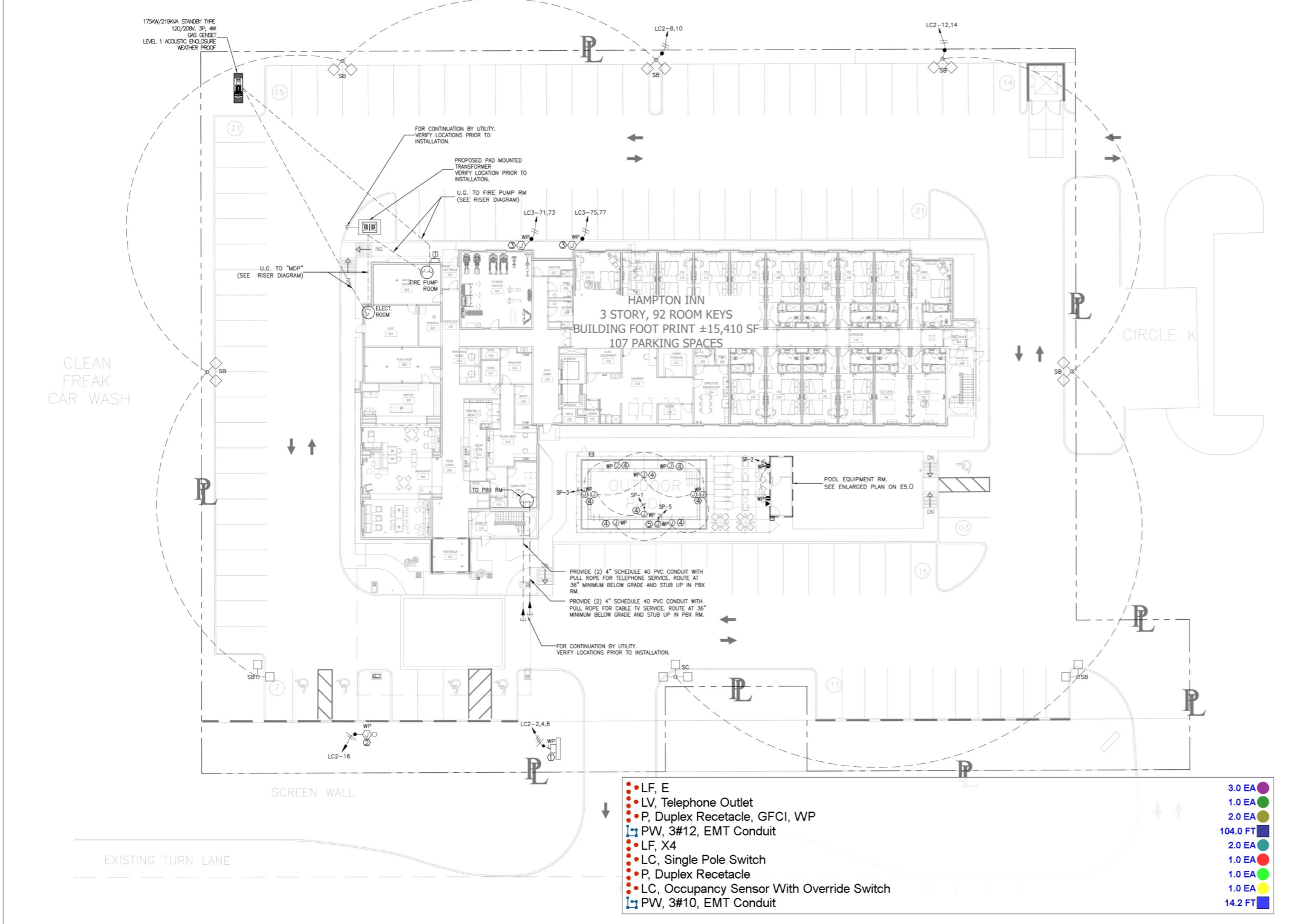
SHEET E5.0

- DISCONNECT SWITCH SCHEDULE:**
- 240V, 3P, 1200A DISCONNECT SWITCH W/1200A CURRENT LIMITING CLASS RK1 FUSES (42kA) IN NEMA-3R ENCLOSURE

- GENERAL SITE NOTES:**
- FOR PARKING LOT LIGHTING CONTROL DIAGRAM SEE #2, E5.0
 - PROVIDE METER AND CT'S PER UTILITY CO. SPECIFICATIONS.
 - INSTALL PAD MOUNTED TRANSFORMER PER UTILITY CO. SPECIFICATIONS. COORDINATE ALL OTHER REQUIREMENTS WITH LOCAL UTILITY CO.
 - CONTRACTOR SHALL PROVIDE 5" SCHEDULE 80 PVC CONDUITS WITH PULL ROPE AT A MINIMUM OF 30" BELOW GRADE. TERMINATE CONDUIT AT A LOCATION SPECIFIED BY UTILITY CO. COORDINATE ALL REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY SERVICES TO THE BUILDING WITH THEIR RESPECTIVE PROVIDERS. FAILURE TO DO SO WILL NOT RESULT IN ANY EXTRA FINANCIAL COMPENSATION FROM THE OWNER. CONTRACTOR SHALL HAVE ALL UTILITY SERVICE REQUIREMENTS IN THE BASE BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR BACK FILLING, TRENCHING AND SITE RESTORATION. THE SELECT BACKFILL MATERIAL MUST NOT CONTAIN ANY SHARP OR FOREIGN OBJECTS.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE AS NECESSARY ALL UNDERGROUND LOCATIONS WITH OTHER TRADES PRIOR TO DIGGING BEING DONE.
 - THE CONTRACTOR SHALL INCLUDE IN THE BID ALL ELECTRIC UTILITY FEES TO PROVIDE ELECTRICAL SERVICE TO THE PROJECT.
 - CONTRACTOR SHALL PROVIDE ONE CONDUIT LOCATED IN BETWEEN TWO SPACES SHALL SERVE TWO SPACES. SHOW A MINIMUM OF (1) ONE, 1 INCH CONDUIT IN BETWEEN TWO TYPICAL PARKING SPACES. THE CONDUIT AND RELATED SPACES MAY BE INCLUDED IN THE IDENTIFIED CLEAN AIR/ VANPOOL/EV SPACES COUNT.

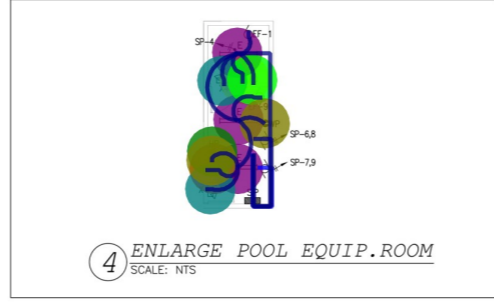


- KEY NOTES:**
- DISCONNECT FOR MAIN SIGN. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ CIVIL PRIOR TO INSTALLATION.
 - J.BOX FOR FLAG POLE. VERIFY LOCATION WITH ARCHITECTURAL PLAN/ CIVIL PRIOR TO INSTALLATION.
 - J.BOX FOR ELECTRIC VEHICLE CHARGERS. CONTRACTOR SHALL VERIFY LOCATION WITH THE CIVIL ENGINEERING/ OWNER PRIOR INSTALL 1-1/2" CONDUIT FOR THE FUTURE ELECTRIC VEHICLE CHARGERS. THOSE CONDUITS HAVE TO FINISH INTO AN ENCLOSURE, JUNCTION BOX ETC.
 - CONNECT LIGHTS PROVIDED BY THE POOL CONTRACTOR. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.
 - J.BOX FOR POOL LIFT. VERIFY LOCATION WITH ARCHITECTURAL PLAN PRIOR TO INSTALLATION.



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

- | | |
|---|----------|
| ● LF, E | 3.0 EA |
| ● LV, Telephone Outlet | 1.0 EA |
| ● P, Duplex Recetacle, GFCI, WP | 2.0 EA |
| ┌ PW, 3#12, EMT Conduit | 104.0 FT |
| ● LF, X4 | 2.0 EA |
| ● LC, Single Pole Switch | 1.0 EA |
| ● P, Duplex Recetacle | 1.0 EA |
| ● LC, Occupancy Sensor With Override Switch | 1.0 EA |
| ┌ PW, 3#10, EMT Conduit | 14.2 FT |



- NOTES FOR POOL:**
- POOL TO BE PERMITTED SEPARATELY.
 - SWIMMING POOL CONTRACTOR SHALL INSTALL ALL ELECTRICAL DEVICES/EQUIPMENTS AND ASSOCIATED WIRING IN ACCORDANCE WITH ARTICLE 680 (NEC 2017).
 - A GROUND-FAULT CIRCUIT INTERRUPTER SHALL BE INSTALLED IN THE BRANCH CIRCUIT SUPPLYING UNDERWATER LUMINAIRES (FIXTURES) OPERATING AT MORE THAN 15 VOLTS, SO THAT THERE IS NO SHOCK HAZARD DURING RELAMPING. SEE NEC 680.23(A)(3).
 - ELECTRICAL EQUIPMENT INSTALLED IN POOL EQUIPMENT ROOMS TO BE RATED FOR USE IN CORROSIVE ENVIRONMENTS.

IMPORTANT NOTICE TO ALL CONTRACTORS AND SUBCONTRACTORS (COMPLETE BUILDING SYSTEMS AND/OR INSTALLATIONS)
IF AWARD A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:
1. YOU ARE A QUALIFIED CONTRACTOR FOR THE DESIGN AND INSTALLATION OF ALL ELECTRICAL SYSTEMS AND EQUIPMENT AND YOU HAVE RECEIVED THE TRIPLE C'S (CHECK, CHECK, CHECK) FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
2. YOU ARE NOTIFIED BY THE STATE PROJECT MANUAL PRODUCTS, GOVERNMENTAL AGENCIES AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND WARRANTIES SYSTEM OF INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
3. YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK AND YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK AND YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK AND YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK.
4. YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK AND YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK AND YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK AND YOU WILL BE RESPONSIBLE FOR ALL DESIGN AND INSTALLATION WORK.

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PROJECT NAME: HAMPTON INN CASA GRANDE, AZ PROJECT NUMBER: 19-007												
PANEL: LCB FED FROM MAIN			A.I.C RATING: BUS: 300 AMPS COPPER		42 KA MAINS		MOUNTING: SURFACE MOUNTED			LOCATION: ELEC-2ND FLOOR		
CODES	WIRE	LOAD	CIRCUIT DESCRIPTION	CKT	PH	CKT	PH	CIRCUIT DESCRIPTION	LOAD	WIRE	CODE	
0	12	1000	RCPTS	1	A	2		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	3	B	4		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	5	C	6		RCPTVANY	180	12	1	
0	12	1000	RCPTS	7	A	8		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	9	B	10		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	11	C	12		RCPTVANY	180	12	1	
0	12	1000	RCPTS	13	A	14		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	15	B	16		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	17	C	18		RCPTVANY	180	12	1	
0	12	1000	RCPTS	19	A	20		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	21	B	22		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	23	C	24		RCPTVANY	180	12	1	
0	12	1000	RCPTS	25	A	26		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	27	B	28		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	29	C	30		RCPTVANY	180	12	1	
0	12	1000	RCPTS	31	A	32		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	33	B	34		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	35	C	36		RCPTVANY	180	12	1	
0	12	1000	RCPTS	37	A	38		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	39	B	40		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	41	C	42		RCPTVANY	180	12	1	
0	12	1000	RCPTS	43	A	44		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	45	B	46		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	47	C	48		RCPTVANY	180	12	1	
0	12	1000	RCPTS	49	A	50		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	51	B	52		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	53	C	54		RCPTVANY	180	12	1	
0	12	1000	RCPTS	55	A	56		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	57	B	58		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	59	C	60		RCPTVANY	180	12	1	
SPARE ONLY												
0	12	1000	RCPTS	61	A	62		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	63	B	64		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	65	C	66		RCPTVANY	180	12	1	
0	12	1000	RCPTS	67	A	68		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	69	B	70		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	71	C	72		RCPTVANY	180	12	1	
0	12	1000	RCPTS	73	A	74		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	75	B	76		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	77	C	78		RCPTVANY	180	12	1	
0	12	1000	RCPTS	79	A	80		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	81	B	82		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	83	C	84		RCPTVANY	180	12	1	
SUB-PNL												
0	12000	1080	8100	2500	A	22.78	LIGHTING@125% (J.G. MOTOR@125%)	25.78	72			
0	0	1860	14000	1100	B	19.58	(SUB-PANEL-N/A)	19.58	84			
0	0	3780	1800	2200	C	12.78	EQUIP @100% MOTOR @100%	12.78	35			
0	12000	8540	21900	4400	TOTAL	55.14	RCPTS@100% LESS THAN 10KW	58.14	161			
GRAND TOTAL										58.14	161	

NOTES: 1- PROVIDE ARC-Fault CIRCUIT BREAKERS FOR ALL BRANCH CIRCUITS IN GUEST ROOMS (ARTICLE 210.12B & 210.18 - NEC 2017)

PROJECT NAME: HAMPTON INN CASA GRANDE, AZ PROJECT NUMBER: 19-007												
PANEL: LCA FED FROM MAIN			A.I.C RATING: BUS: 350 AMPS COPPER		42 KA MAINS		MOUNTING: SURFACE MOUNTED			LOCATION: ELEC-1ST FLOOR		
CODES	WIRE	LOAD	CIRCUIT DESCRIPTION	CKT	PH	CKT	PH	CIRCUIT DESCRIPTION	LOAD	WIRE	CODE	
2	12	1500	DOOR MOTOR	1	A	2		DOOR MOTOR	1500	12	2	
2	12	1000	DOOR MOTOR	3	B	4		DOOR MOTOR	1000	12	2	
1	12	720	FLOOR RCPTS - BREAKFAST AREA	5	C	6		FLOOR RCPTS - BREAKFAST AREA	720	12	1	
1	12	900	FLOOR RCPTS - BREAKFAST AREA	7	A	8		FLOOR RCPTS - BREAKFAST AREA	900	12	1	
1	12	900	RCPTS - CANOPY	9	B	10		RCPTS - CANOPY	900	12	1	
1	12	1260	RCPTS - FRONT DESK/WORK AREA/STOR/MECH	11	C	12		RCPTS - FRONT DESK/WORK AREA/STOR/MECH	1260	12	1	
2	12	1440	IG RCPTS - FRONT DESK	13	A	14		IG RCPTS - FRONT DESK	1440	12	2	
2	12	1500	MICROWAVE - TREAT SHOP	15	B	16		MICROWAVE - TREAT SHOP	1500	12	2	
2	12	720	(01)-FREEZER-TREATS SHOP	17	C	18		(01)-FREEZER-TREATS SHOP	720	12	1	
2	12	1240	(02)-REF-TREATS SHOP	19	A	20		(02)-REF-TREATS SHOP	1240	12	2	
1	12	720	IG RCPTS - WORK AREA	21	B	22		IG RCPTS - WORK AREA	720	12	1	
2	12	1500	IG RCPTS - PHOTO COOPER	23	C	24		IG RCPTS - PHOTO COOPER	1500	12	2	
2	12	1500	IG RCPTS - PHOTO COOPER	25	A	26		IG RCPTS - PHOTO COOPER	1500	12	2	
2	12	720	IG RCPTS - SALES/MANAGER	27	B	28		IG RCPTS - SALES/MANAGER	720	12	1	
1	12	1080	RCPTS - SALES/MANAGER	29	C	30		RCPTS - SALES/MANAGER	1080	12	1	
1	12	1080	RCPTS - PERSON NOOK AREA/TREATS SHOP	31	A	32		RCPTS - PERSON NOOK AREA/TREATS SHOP	1080	12	1	
2	12	1200	RCPTS - MAIN LOBBY	33	B	34		RCPTS - MAIN LOBBY	1200	12	2	
2	12	1200	RCPTS - BREAKFAST AREA	35	C	36		RCPTS - BREAKFAST AREA	1200	12	2	
2	12	1440	RCPTS - BREAKFAST AREA VESTIBULE	37	A	38		RCPTS - BREAKFAST AREA VESTIBULE	1440	12	2	
2	12	1260	RCPTS - BREAKFAST AREA VESTIBULE	39	B	40		RCPTS - BREAKFAST AREA VESTIBULE	1260	12	2	
1	12	1080	RCPTS - STOR/WORK AREA	41	C	42		RCPTS - STOR/WORK AREA	1080	12	1	
1	12	1080	RCPTS - ELEV LOBBY STOR/RESTROOM	43	A	44		RCPTS - ELEV LOBBY STOR/RESTROOM	1080	12	1	
2	12	1500	DRINKING FOUNTAIN	45	B	46		DRINKING FOUNTAIN	1500	12	2	
2	12	1500	ICE MACHINE	47	C	48		ICE MACHINE	1500	12	2	
1	12	900	RCPTS - RESTROOM MECH/EMPLOYEE BREAK	49	A	50		RCPTS - RESTROOM MECH/EMPLOYEE BREAK	900	12	1	
1	12	1260	RCPTS - LAUNDRY LINEN STOR	51	B	52		RCPTS - LAUNDRY LINEN STOR	1260	12	1	
1	12	1080	RCPTS - CORRIDOR	53	C	54		RCPTS - CORRIDOR	1080	12	1	
2	12	1500	MICROWAVE - EMPLOYEE RM	55	A	56		MICROWAVE - EMPLOYEE RM	1500	12	2	
2	12	1500	REF - EMPLOYEE RM	57	B	58		REF - EMPLOYEE RM	1500	12	2	
2	12	1200	RCPTS - EMPLOYEE RM	59	C	60		RCPTS - EMPLOYEE RM	1200	12	2	
2	12	300	J BOX FOR MOTORIZED DAMPER	61	A	62		J BOX FOR MOTORIZED DAMPER	300	12	2	
1	12	720	RCPTS - EXTERIOR	63	B	64		RCPTS - EXTERIOR	720	12	1	
5	0	1688	BOOSTER PUMP CONTROLLER (BP)	65	C	66		BOOSTER PUMP CONTROLLER (BP)	1688	12	5	
5	0	1688		67	A	68			1688	12	5	
2	6	4180	CHARGING STATION	71	C	72		CHARGING STATION	4180	12	2	
2	6	4180	CHARGING STATION	73	A	74		CHARGING STATION	4180	12	2	
2	6	4180	CHARGING STATION	75	B	76		CHARGING STATION	4180	12	2	
2	6	4180	CHARGING STATION	77	C	78		CHARGING STATION	4180	12	2	
SPARE ONLY												
0	0	0	25880	78350	6328	TOTAL	107.36	RCPTS@100% REMAIN	101.02	280		
GRAND TOTAL										107.36	280	

NOTES: 1- FIELD VERIFY BREAKER SIZES, CABLE SIZES, ETC WITH LAUNDRY SUPPLIER PRIOR TO INSTALLATION
2- CONTRACTOR MUST PROVIDE ISOLATED GROUND BUS IN THE PANEL

PROJECT NAME: HAMPTON INN CASA GRANDE, AZ PROJECT NUMBER: 19-007												
PANEL: LCI FED FROM MAIN			A.I.C RATING: BUS: 300 AMPS COPPER		42 KA MAINS		MOUNTING: SURFACE MOUNTED			LOCATION: ELEC-1ST FLOOR		
CODES	WIRE	LOAD	CIRCUIT DESCRIPTION	CKT	PH	CKT	PH	CIRCUIT DESCRIPTION	LOAD	WIRE	CODE	
0	12	1000	RCPTS	1	A	2		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	3	B	4		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	5	C	6		RCPTVANY	180	12	1	
0	12	1000	RCPTS	7	A	8		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	9	B	10		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	11	C	12		RCPTVANY	180	12	1	
0	12	1000	RCPTS	13	A	14		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	15	B	16		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	17	C	18		RCPTVANY	180	12	1	
0	12	1000	RCPTS	19	A	20		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	21	B	22		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	23	C	24		RCPTVANY	180	12	1	
0	12	1000	RCPTS	25	A	26		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	27	B	28		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	29	C	30		RCPTVANY	180	12	1	
0	12	1000	RCPTS	31	A	32		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	33	B	34		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	35	C	36		RCPTVANY	180	12	1	
0	12	1000	RCPTS	37	A	38		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	39	B	40		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	41	C	42		RCPTVANY	180	12	1	
0	12	1000	RCPTS	43	A	44		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	45	B	46		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	47	C	48		RCPTVANY	180	12	1	
0	12	1000	RCPTS	49	A	50		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	51	B	52		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	53	C	54		RCPTVANY	180	12	1	
0	12	1000	RCPTS	55	A	56		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	57	B	58		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	59	C	60		RCPTVANY	180	12	1	
0	12	1000	RCPTS	61	A	62		RCPTS	1000	12	0	
2	12	1000	REFRGMCR	63	B	64		REFRGMCR	1000	12	2	
1	12	180	RCPTVANY	65	C	66		RCPTVANY	180	12	1	

NO.	DESCRIPTION	DATE	BY

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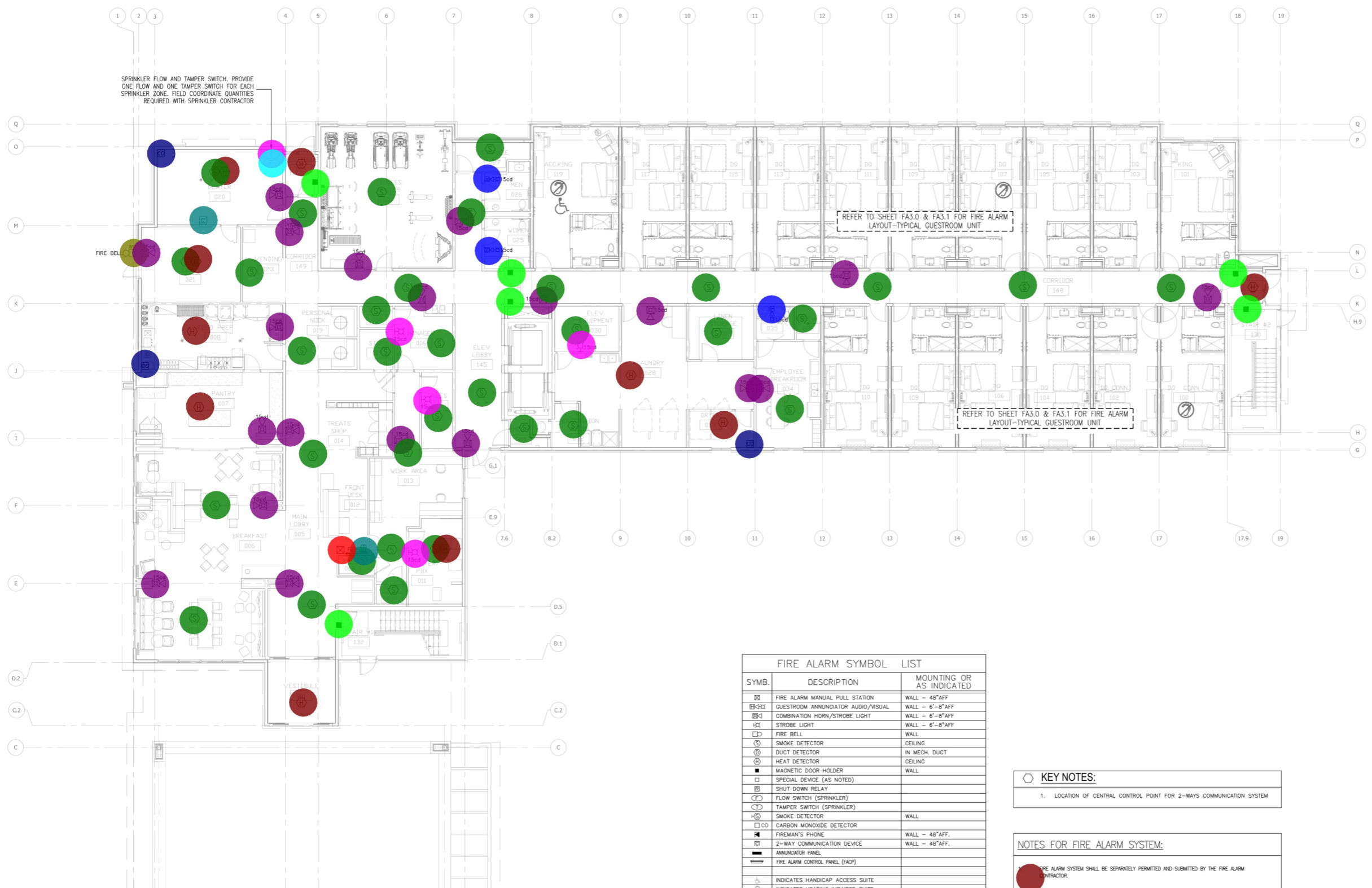


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

FIRE ALARM FIRST FLOOR PLAN

SHEET FA2.0



FIRE ALARM SYMBOL LIST		
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
	FIRE ALARM MANUAL PULL STATION	WALL - 48" AFF
	GUESTROOM ANNUNCIATOR AUDIO/VISUAL	WALL - 6'-8" AFF
	COMBINATION HORN/STROBE LIGHT	WALL - 6'-8" AFF
	STROBE LIGHT	WALL - 6'-8" AFF
	FIRE BELL	WALL
	SMOKE DETECTOR	CEILING
	DUCT DETECTOR	IN MECH. DUCT
	HEAT DETECTOR	CEILING
	MAGNETIC DOOR HOLDER	WALL
	SPECIAL DEVICE (AS NOTED)	
	SHUT DOWN RELAY	
	FLOW SWITCH (SPRINKLER)	
	TAMPER SWITCH (SPRINKLER)	
	SMOKE DETECTOR	WALL
	CARBON MONOXIDE DETECTOR	WALL - 48" AFF.
	FIREMAN'S PHONE	WALL - 48" AFF.
	2-WAY COMMUNICATION DEVICE	WALL - 48" AFF.
	ANNUNCIATOR PANEL	
	FIRE ALARM CONTROL PANEL (FACP)	
	INDICATES HANDICAP ACCESS SUITE	
	INDICATES HEARING IMPAIRED SUITE	

KEY NOTES:

- LOCATION OF CENTRAL CONTROL POINT FOR 2-WAYS COMMUNICATION SYSTEM

NOTES FOR FIRE ALARM SYSTEM:

- FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

- TAMPER SWITCH
- FLOW SWITCH
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE BELL, WP
- CARBON MONOXIDE DETECTOR
- COMBINATION HORN/STROBE LIGHT
- 2-WAY COMMUNICATION SYSTEM
- FIRE ALARM MANUAL PULL STATION
- MAGNETIC DOOR HOLDER
- GUESTROOM ANNUNCIATOR AUDIO/VISUAL
- STROBE LIGHT
- FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED & SUBMITTED BY THE FIRE ALARM CONTRACTOR

- 1.0 EA
- 1.0 EA
- 10.0 EA
- 50.2 EA
- 1.0 EA
- 3.0 EA
- 20.0 EA
- 2.0 EA
- 1.0 EA
- 6.0 EA
- 3.0 EA
- 4.0 EA
- 1.0 EA

1 FIRE ALARM FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"

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IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NECESSARY TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:

- YOU WILL MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND STRUCTURES TO REMAIN AND NOT BE RESPONSIBLE FOR THE TIME OF WORK AND SCOPED FOR THIS PROJECT.
- YOUR BID INCLUDES ALL THE COSTS FOR MATERIALS, PRODUCTS, EQUIPMENT, LABOR AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
- YOUR BID INCLUDES ALL THE COSTS FOR OBTAINING NECESSARY PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
- YOUR BID INCLUDES ALL THE COSTS FOR OBTAINING NECESSARY PERMITS AND APPROVALS NECESSARY TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.

YOUR CONTRACT SHALL BE SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT DOCUMENTS AND ANY ADDENDUMS, SPECIFICATIONS, AND SCHEDULES. ANY WORK NOT COMPLETED BY YOUR CONTRACTOR OR SUBCONTRACTOR AT THE PROJECT COMPLETION DATE SHALL BE CONSIDERED THE PROPERTY OF THE CONTRACTOR AND/OR SUBCONTRACTOR.



NO.	DESCRIPTION	DATE	BY

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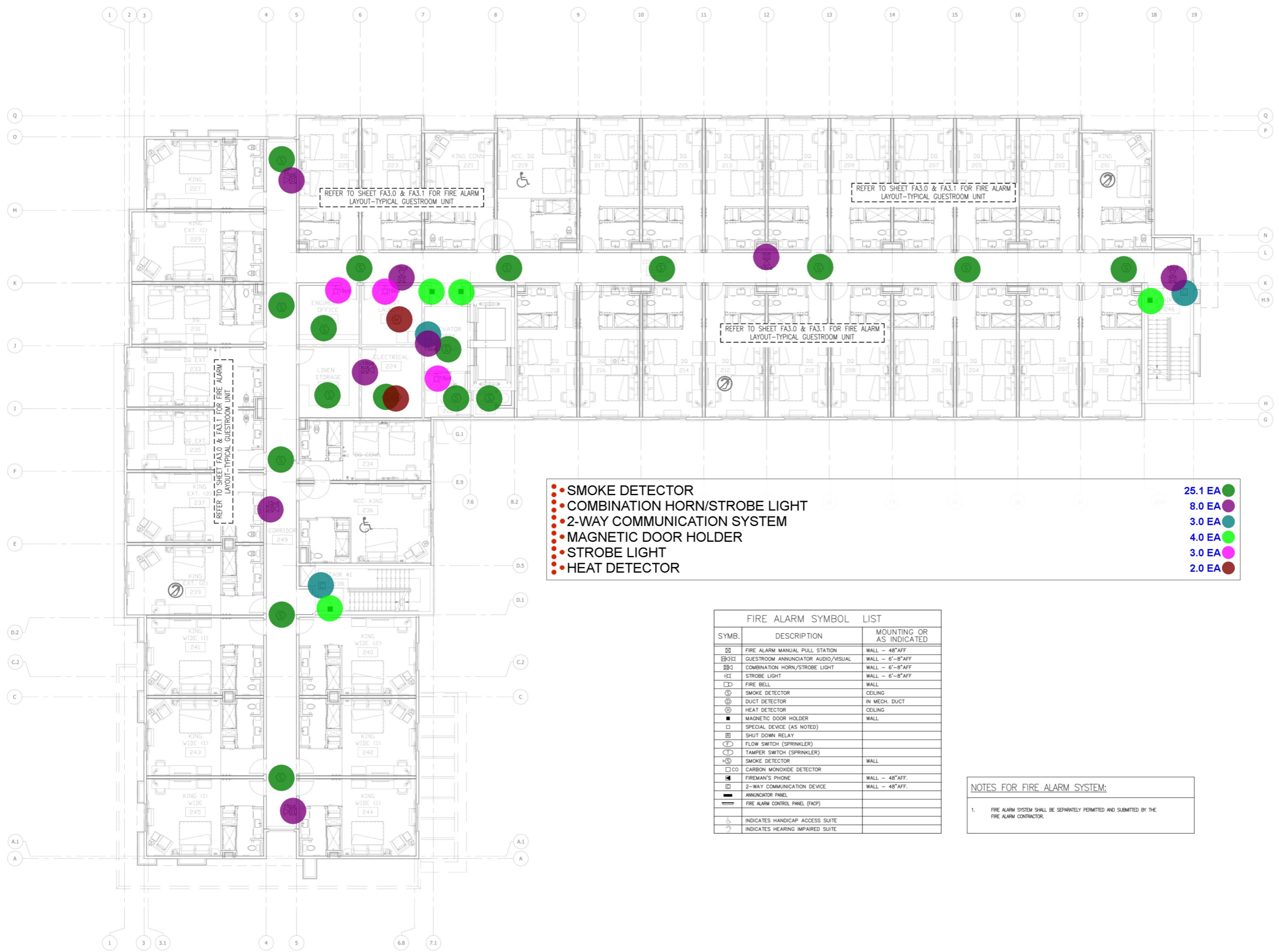


FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

FIRE ALARM
SECOND FLOOR PLAN

SHEET FA2.1



- SMOKE DETECTOR 25.1 EA
- COMBINATION HORN/STROBE LIGHT 8.0 EA
- 2-WAY COMMUNICATION SYSTEM 3.0 EA
- MAGNETIC DOOR HOLDER 4.0 EA
- STROBE LIGHT 3.0 EA
- HEAT DETECTOR 2.0 EA

FIRE ALARM SYMBOL LIST		
SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
	FIRE ALARM MANUAL PULL STATION	WALL - 48" AFF
	GUESTROOM ANNIUNCIATOR AUDIO/VISUAL	WALL - 6"-8" AFF
	COMBINATION HORN/STROBE LIGHT	WALL - 6"-8" AFF
	STROBE LIGHT	WALL - 6"-8" AFF
	FIRE BELL	WALL
	SMOKE DETECTOR	CEILING
	DUCT DETECTOR	IN MECH. DUCT
	HEAT DETECTOR	CEILING
	MAGNETIC DOOR HOLDER	WALL
	SPECIAL DEVICE (AS NOTED)	
	SHUT DOWN RELAY	
	FLOW SWITCH (SPRINKLER)	
	TAMPER SWITCH (SPRINKLER)	
	SMOKE DETECTOR	WALL
	CARBON MONOXIDE DETECTOR	
	FIREMAN'S PHONE	WALL - 48" AFF.
	2-WAY COMMUNICATION DEVICE	WALL - 48" AFF.
	ANNUNCIATOR PANEL	
	FIRE ALARM CONTROL PANEL (FACP)	
	INDICATES HANDICAP ACCESS SUITE	
	INDICATES HEARING IMPAIRED SUITE	

NOTES FOR FIRE ALARM SYSTEM:
1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

1 FIRE ALARM
SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

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1. IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NECESSARY TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:
2. YOU WILL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
3. YOUR PORTION OF THE PROJECT SHALL BE COMPLETED AND MAINTAINED IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARDS SET FORTH IN THE CONTRACT DOCUMENTS AND ANY OTHER DOCUMENTS REFERENCED THEREIN.
4. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
5. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
6. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
7. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
8. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
9. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.
10. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF THE PROJECT FROM THE CITY OF PHOENIX AND ALL OTHER AGENCIES.

NO.	DESCRIPTION	DATE	BY

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FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

FIRE ALARM
THIRD FLOOR PLAN

SHEET FA.2.2



- HEAT DETECTOR
- SMOKE DETECTOR
- COMBINATION HORN/STROBE LIGHT
- 2-WAY COMMUNICATION SYSTEM
- MAGNETIC DOOR HOLDER
- STROBE LIGHT

- 1.0 EA
- 31.0 EA
- 8.0 EA
- 3.0 EA
- 4.0 EA
- 1.0 EA

SYMB.	DESCRIPTION	MOUNTING OR AS INDICATED
	FIRE ALARM MANUAL PULL STATION	WALL - 48" AFF
	GUESTROOM ANNUNCIATOR AUDIO/VISUAL	WALL - 6"-8" AFF
	COMBINATION HORN/STROBE LIGHT	WALL - 6"-8" AFF
	STROBE LIGHT	WALL - 6"-8" AFF
	FIRE BELL	WALL
	SMOKE DETECTOR	CEILING
	DUCT DETECTOR	IN MECH. DUCT
	HEAT DETECTOR	CEILING
	MAGNETIC DOOR HOLDER	WALL
	SPECIAL DEVICE (AS NOTED)	
	SHUT DOWN RELAY	
	FLOW SWITCH (SPRINKLER)	
	TAMPER SWITCH (SPRINKLER)	
	SMOKE DETECTOR	WALL
	CARBON MONOXIDE DETECTOR	
	FIREMAN'S PHONE	WALL - 48" AFF.
	2-WAY COMMUNICATION DEVICE	WALL - 48" AFF.
	ANNUNCIATOR PANEL	
	FIRE ALARM CONTROL PANEL (FACP)	
	INDICATES HANDICAP ACCESS SUITE	
	INDICATES HEARING IMPAIRED SUITE	

NOTES FOR FIRE ALARM SYSTEM:

- FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

1 FIRE ALARM
THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"

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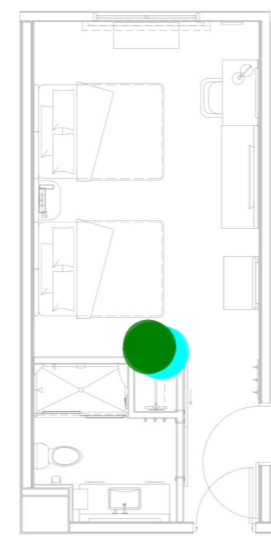
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YOUR WORK SHALL BE SUBJECT TO THE DESIGN, MATERIALS, METHODS, PROCEDURES, AND APPROVALS REQUIRED TO PROVIDE A COMPLETE AND GUARANTEED SYSTEM OR INSTALLATION THAT DOES NOT REQUIRE ANY OTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
YOUR WORK SHALL BE SUBJECT TO ANY CHANGES IN DESIGN, MATERIALS, METHODS, PROCEDURES, AND APPROVALS THAT MAY BE REQUIRED DURING THE COURSE OF YOUR WORK. YOU SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR YOUR PORTION OF WORK AND FOR THE TIME OF WORK AND COST FOR THIS PROJECT.
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NO.	DESCRIPTION	DATE	BY

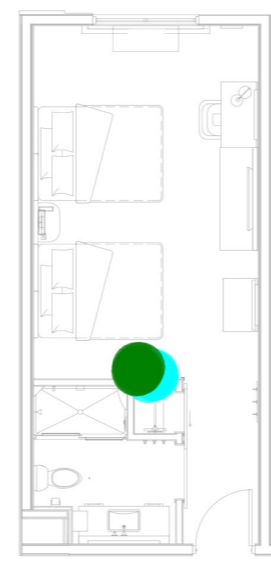
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① **DOUBLE QUEEN**
SCALE: 1/4"=1'-0"

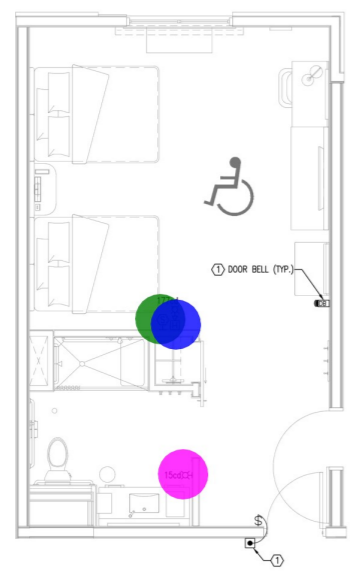


② **DOUBLE QUEEN CONNECTING**
SCALE: 1/4"=1'-0"

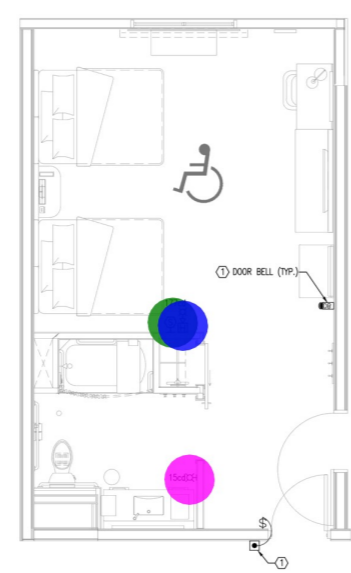


③ **DOUBLE QUEEN EXT.**
SCALE: 1/4"=1'-0"

• SMOKE DETECTOR	16.3 EA
• STROBE LIGHT	2.0 EA
• GUESTROOM ANNUNCIATOR AUDIO/VISUAL	2.0 EA
• GUESTROOM ANNUNCIATOR AUDIO	23.0 EA



④ **ACC. DOUBLE QUEEN SHOWER**
SCALE: 1/4"=1'-0"



⑤ **ACC. DOUBLE QUEEN TUB**
SCALE: 1/4"=1'-0"

GENERAL NOTES:

- A. GUEST ROOMS & BATHROOMS FOR ACCESSIBLE & HEARING IMPAIRED SHALL HAVE AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE IN ROOM SMOKE DETECTOR & AN AUDIBLE & VISUAL ALARM ACTIVATED BY THE BLDG. FIRE ALARM SYSTEM.
- B. INSTALL PUSH BUTTON AT EACH ACCESSIBLE & HEARING IMPAIRED ROOMS FOR VISUAL ALARM, NOTIFICATION DEVICES & TELEPHONES.
- C. SMOKE DETECTORS IN EACH GUEST ROOM ALSO BE EQUIPPED WITH CO MONITORING. (SEE NOTES ON FA1.0 FOR EXCEPTION CASES)

NOTE FOR FIRE ALARM SYSTEM:

1. FIRE ALARM SYSTEM SHALL BE SEPARATELY PERMITTED AND SUBMITTED BY THE FIRE ALARM CONTRACTOR.

KEYED NOTES:

1. DOOR BELL (C/W BUTTON & ON/OFF SWITCH) SHALL BE PROVIDED ONLY IN COMMUNICATION FEATURE ROOMS ONLY.



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FLORENCE BOULEVARD
CASA GRANDE, AZ

PROJECT NO.: 19-007
DATE: 04-17-2020
DRAWN BY: PL
CHKD. BY: DV

**FIRE ALARM
TYPICAL GUESTROOM
PLAN**

SHEET FA3.1

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1. IF AWARDED A CONTRACT FOR ANY PORTION OF WORK NEEDED TO COMPLETE THIS PROJECT YOU ARE AGREEING TO THE FOLLOWING TERMS:
2. YOU ARE A QUALIFIED CONTRACTOR OR SUBCONTRACTOR RESPONSIBLE FOR PROVIDING A COMPLETE TURNKEY SERVICE TO THE TRADE BY PROFESSIONALS FOR THE TYPE OF WORK AND SCOPE FOR THIS PROJECT.
3. YOUR BID INCLUDES ALL THE COSTS FOR MATERIALS, LABOR, EQUIPMENT, AND SUPPLIES NECESSARY TO PROVIDE A COMPLETE AND WARRANTIES SYSTEM ON INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
4. YOUR BID INCLUDES ALL THE COSTS FOR MATERIALS, LABOR, EQUIPMENT, AND SUPPLIES NECESSARY TO PROVIDE A COMPLETE AND WARRANTIES SYSTEM ON INSTALLATION THAT DOES NOT REQUIRE ANOTHER CONTRACTOR OR PRODUCT TO COMPLETE YOUR SCOPE OF WORK.
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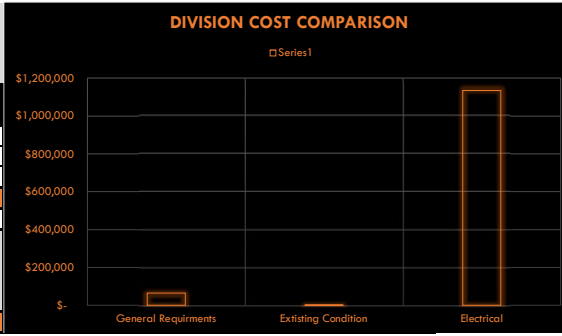
GENERAL SUMMARY

Prepared for: HAMPTON INN - CASA GRANDE
 Project ID: 2182 EAST FLORENCE BOULEVARD CASA GRANDE, ARIZONA
 Scope: ELECTRICAL
 No. Of Floors: 3
 Date: 22/06/2022



BUILDING GSF 52,399
 1st Floor (SF) 15,819
 2nd Floor (SF) 18,290
 2nd Floor (SF) 18,290

DIVISION NO.	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirments	\$ 65,000	\$ 1.24
2000	Existing Condition	\$ 277	\$ 0.01
26000	Electrical	\$ 1,134,864	\$ 21.66
TOTAL TRADE COST		\$ 1,200,142	\$ 23
OVERHEAD AND PROFIT			
INSURANCE	10%	\$ 120,014	\$ 2.29
CONTINGENCY	2%	\$ 24,003	\$ 0
TAX	3%	\$ 36,004	\$ 1
	9%	\$ 61,397	\$ 2
TOTAL TRADE COST		\$ 1,441,560	\$ 28



DETAILED BREAKDOWN OF ITEMS

Prepared for: **HAMPTON INN - CASA GRANDE**
 Project ID: **2182 EAST FLORENCE BOULEVARD CASA GRANDE, ARIZONA**
 Scope: **ELECTRICAL**



TOTAL TRADE COST	\$1,200,142
OH & PROFIT	\$120,014
INSURANCE	\$24,003
CONTINGENCY	\$36,004
TAX	\$61,397
SUGGESTED BID	\$1,441,560

Date: 22/06/2022

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/WASTAGE	UNIT MANHOURE	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ -	\$ -
2			Supervision and Coordination	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ 18,000.00	\$ 18,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ 4,000.00	\$ 4,000.00
4			Final Cleaning	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ 5,000.00	\$ 5,000.00
5			Mobilization Costs	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ 30,000.00	\$ 30,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ 8,000.00	\$ 8,000.00
7			Scaffolding	LS	1	0%	1	0.00	0.00	\$ -	\$ -	\$ -	\$ -
SUBTOTAL												\$ 65,000	

EXISTING CONDITIONS													
DEMOLITION													
8			Existing Site Light To Be Removed	EA	4	0%	4	1.650	\$ 42.00	\$ 69.30	\$ -	\$ 69.30	\$ 277.20
SUBTOTAL												\$ 277	

ELECTRICAL

DISTRIBUTION													
CONDUIT:													
9			4" EMT Conduit	LF	91	5%	96	0.200	\$ 42.00	\$ 8.40	\$ 10.77	\$ 19.17	\$ 1,831.69
10			4" LFMC Conduit	LF	48	5%	50	0.200	\$ 42.00	\$ 8.40	\$ 23.75	\$ 32.15	\$ 1,620.36
11			4" PVC SCH 80 Conduit	LF	302	5%	317	0.178	\$ 42.00	\$ 7.48	\$ 9.38	\$ 16.86	\$ 5,345.04
12			4" RGS Conduit	LF	48	5%	50	0.400	\$ 42.00	\$ 16.80	\$ 30.27	\$ 47.07	\$ 2,372.33
13			3 1/2" EMT Conduit	LF	448	5%	470	0.178	\$ 42.00	\$ 7.48	\$ 10.50	\$ 17.98	\$ 8,455.91
14			3 1/2" LFMC Conduit	LF	12	5%	13	0.178	\$ 42.00	\$ 7.48	\$ 18.35	\$ 25.83	\$ 325.41
15			3 1/2" PVC SCH 80 Conduit	LF	139	5%	146	0.160	\$ 42.00	\$ 6.72	\$ 9.07	\$ 15.79	\$ 2,304.38
16			3 1/2" PVC SCH 80 Conduit	LF	102	5%	107	0.160	\$ 42.00	\$ 6.72	\$ 9.07	\$ 15.79	\$ 1,690.11
17			3 1/2" RGS Conduit	LF	12	5%	13	0.364	\$ 42.00	\$ 15.29	\$ 28.59	\$ 43.88	\$ 552.86
18			3" EMT Conduit	LF	195	5%	205	0.160	\$ 42.00	\$ 6.72	\$ 7.97	\$ 14.69	\$ 3,004.69
19			3" FMC Conduit	LF	10	5%	11	0.160	\$ 42.00	\$ 6.72	\$ 5.76	\$ 12.48	\$ 133.01
20			2 1/2" EMT Conduit	LF	274	5%	287	0.133	\$ 42.00	\$ 5.60	\$ 6.29	\$ 11.89	\$ 3,414.61
21			2" EMT Conduit	LF	97	5%	102	0.100	\$ 42.00	\$ 4.20	\$ 3.96	\$ 8.16	\$ 831.10
22			1 1/2" EMT Conduit	LF	217	5%	228	0.090	\$ 42.00	\$ 3.78	\$ 3.38	\$ 7.16	\$ 1,631.63
23			1 1/2" PVC SCH 80 Conduit	LF	12	5%	12	0.080	\$ 42.00	\$ 3.36	\$ 2.45	\$ 5.81	\$ 71.68
24			1/2" FMC Conduit	LF	5	5%	5	0.047	\$ 42.00	\$ 1.97	\$ 0.65	\$ 2.62	\$ 13.78
25			1/2" EMT Conduit	LF	27	5%	28	0.047	\$ 42.00	\$ 1.97	\$ 0.54	\$ 2.51	\$ 71.27

CONDUCTOR:													
26			#600 CU THWN	LF	1956	5%	2054	0.040	\$ 42.00	\$ 1.68	\$ 15.65	\$ 17.33	\$ 35,596.72
27			#500 CU THWN	LF	882	5%	926	0.035	\$ 42.00	\$ 1.47	\$ 12.57	\$ 14.04	\$ 13,004.80
28			#400 CU THWN	LF	2002	5%	2102	0.032	\$ 42.00	\$ 1.34	\$ 9.95	\$ 11.29	\$ 23,741.12
29			#300 CU THWN	LF	779	5%	818	0.028	\$ 42.00	\$ 1.18	\$ 7.46	\$ 8.64	\$ 7,065.63
30			#4/0 CU THWN	LF	1094	5%	1149	0.018	\$ 42.00	\$ 0.76	\$ 5.37	\$ 6.13	\$ 7,037.97
31			#2/0 CU THWN	LF	237	5%	249	0.016	\$ 42.00	\$ 0.67	\$ 3.40	\$ 4.07	\$ 1,014.51
32			#1/0 CU THWN	LF	151	5%	158	0.015	\$ 42.00	\$ 0.63	\$ 2.77	\$ 3.40	\$ 538.78
33			#1 CU THWN	LF	915	5%	961	0.014	\$ 42.00	\$ 0.59	\$ 2.26	\$ 2.85	\$ 2,736.22
34			#2 CU THWN	LF	263	5%	277	0.012	\$ 42.00	\$ 0.50	\$ 1.66	\$ 2.16	\$ 598.59
35			#4 CU THWN	LF	578	5%	607	0.011	\$ 42.00	\$ 0.46	\$ 1.32	\$ 1.78	\$ 1,081.38
36			#6 CU THWN	LF	371	5%	389	0.010	\$ 42.00	\$ 0.42	\$ 0.86	\$ 1.28	\$ 498.07
37			#8 CU THWN	LF	228	5%	239	0.009	\$ 42.00	\$ 0.38	\$ 0.56	\$ 0.94	\$ 224.56
38			#12 CU THWN/THWN	LF	148	5%	155	0.007	\$ 42.00	\$ 0.29	\$ 0.25	\$ 0.54	\$ 84.38

CIRCUIT BREAKER:													
39			20A/1P CIRCUIT BREAKER, AFCI	EA	498	0%	498	0.450	\$ 42.00	\$ 18.90	\$ 37.00	\$ 55.90	\$ 27,838.20
40			20A/1P CIRCUIT BREAKER, GFCI	EA	6	0%	6	0.450	\$ 42.00	\$ 18.90	\$ 37.00	\$ 55.90	\$ 335.40
41			20A/2P CIRCUIT BREAKER	EA	107	0%	107	0.450	\$ 42.00	\$ 18.90	\$ 43.18	\$ 62.08	\$ 6,642.56
42			20A/3P CIRCUIT BREAKER	EA	2	0%	2	0.510	\$ 42.00	\$ 21.42	\$ 58.00	\$ 79.42	\$ 158.84
43			25A/1P CIRCUIT BREAKER	EA	1	0%	1	0.420	\$ 42.00	\$ 17.64	\$ 36.00	\$ 53.64	\$ 53.64
44			25A/2P CIRCUIT BREAKER	EA	4	0%	4	0.450	\$ 42.00	\$ 18.90	\$ 46.00	\$ 64.90	\$ 259.60
45			30A/1P CIRCUIT BREAKER	EA	4	0%	4	0.440	\$ 42.00	\$ 18.48	\$ 41.56	\$ 60.04	\$ 240.16
46			30A/2P CIRCUIT BREAKER	EA	2	0%	2	0.480	\$ 42.00	\$ 20.16	\$ 59.00	\$ 79.16	\$ 158.32
47			30A/2P CIRCUIT BREAKER, GFCI	EA	1	0%	1	0.480	\$ 42.00	\$ 20.16	\$ 59.00	\$ 79.16	\$ 79.16
48			30A/3P CIRCUIT BREAKER, GFCI	EA	3	0%	3	0.480	\$ 42.00	\$ 20.16	\$ 59.00	\$ 79.16	\$ 237.48
49			35A/2P CIRCUIT BREAKER	EA	2	0%	2	0.500	\$ 42.00	\$ 21.00	\$ 67.91	\$ 88.91	\$ 177.82
50			40A/2P CIRCUIT BREAKER	EA	1	0%	1	0.500	\$ 42.00	\$ 21.00	\$ 67.91	\$ 88.91	\$ 88.91
51			45A/1P CIRCUIT BREAKER	EA	1	0%	1	0.450	\$ 42.00	\$ 18.90	\$ 44.39	\$ 63.29	\$ 63.29
52			50A/2P CIRCUIT BREAKER	EA	11	0%	11	0.520	\$ 42.00	\$ 21.84	\$ 72.00	\$ 93.84	\$ 1,032.24
53			60A/2P CIRCUIT BREAKER	EA	3	0%	3	0.550	\$ 42.00	\$ 23.10	\$ 78.00	\$ 101.10	\$ 303.30
54			60A/3P CIRCUIT BREAKER	EA	4	0%	4	0.650	\$ 42.00	\$ 27.30	\$ 112.00	\$ 139.30	\$ 557.20
55			100A/3P CIRCUIT BREAKER	EA	1	0%	1	0.980	\$ 42.00	\$ 41.16	\$ 320.00	\$ 361.16	\$ 361.16
56			100A/3P MAIN CIRCUIT BREAKER	EA	1	0%	1	0.980	\$ 42.00	\$ 41.16	\$ 320.00	\$ 361.16	\$ 361.16
57			125A/3P CIRCUIT BREAKER	EA	1	0%	1	1.100	\$ 42.00	\$ 46.20	\$ 358.68	\$ 404.88	\$ 404.88
58			125A/3P MAIN CIRCUIT BREAKER	EA	1	0%	1	1.100	\$ 42.00	\$ 46.20	\$ 358.68	\$ 404.88	\$ 404.88
59			150A/3P CIRCUIT BREAKER	EA	1	0%	1	1.400	\$ 42.00	\$ 58.80	\$ 534.00	\$ 592.80	\$ 592.80
60			150A/3P MAIN CIRCUIT BREAKER	EA	1	0%	1	1.400	\$ 42.00	\$ 58.80	\$ 534.00	\$ 592.80	\$ 592.80
61			200A/3P CIRCUIT BREAKER	EA	3	0%	3	1.720	\$ 42.00	\$ 72.24	\$ 650.00	\$ 722.24	\$ 2,166.72
62			200A/3P MAIN CIRCUIT BREAKER	EA	1	0%	1	1.720	\$ 42.00	\$ 72.24	\$ 650.00	\$ 722.24	\$ 722.24
63			250A/3P CIRCUIT BREAKER	EA	2	0%	2	1.830	\$ 42.00	\$ 76.86	\$ 844.00	\$ 920.86	\$ 1,841.72
64			250A/3P MAIN CIRCUIT BREAKER	EA	2	0%	2	1.830	\$ 42.00	\$ 76.86	\$ 844.00	\$ 920.86	\$ 1,841.72
65			300A/3P CIRCUIT BREAKER	EA	4	0%	4	2.000	\$ 42.00	\$ 84.00	\$ 1,195.00	\$ 1,279.00	\$ 5,116.00
66			300A/3P MAIN CIRCUIT BREAKER	EA	4	0%	4	2.000	\$ 42.00	\$ 84.00	\$ 1,195.00	\$ 1,279.00	\$ 5,116.00
67			350A/3P CIRCUIT BREAKER	EA	2	0%	2	2.140	\$ 42.00	\$ 89.88	\$ 1,366.00	\$ 1,455.88	\$ 2,911.76
68			350A/3P MAIN CIRCUIT BREAKER	EA	2	0%	2	2.140	\$ 42.00	\$ 89.88	\$ 1,366.00	\$ 1,455.88	\$ 2,911.76
69			400A/3P CIRCUIT BREAKER	EA	1	0%	1	2.330	\$ 42.00	\$ 97.86	\$ 1,630.00	\$ 1,727.86	\$ 1,727.86
70			400A/3P MAIN CIRCUIT BREAKER	EA	1	0%	1	2.330	\$ 42.00	\$ 97.86	\$ 1,630.00	\$ 1,727.86	\$ 1,727.86
71			2000A/3P MAIN CIRCUIT BREAKER	EA	1	0%	1	8.000	\$ 42.00	\$ 336.00	\$ 13,907.00	\$ 14,243.00	\$ 14,243.00

PANEL:													
72			Panel EP, 350A, 120/208V, 3PH, 4W, Mains: MCB	EA	1	0%	1	5.300	\$ 42.00	\$ 222.60	\$ 4,299.00	\$ 4,521.60	\$ 4,521.60
73			Panel LA1, 250A, 120/208V, 3PH, 4W, Mains: MCB	EA	1	0%	1	4.580	\$ 42.00	\$ 192.36	\$ 3,200.00	\$ 3,392.36	\$ 3,392.36
74			Panel LA2, 300A, 120/208V, 3PH, 4W, Mains: MCB	EA	1	0%	1	4.800	\$ 42.00	\$ 201.60	\$ 3,825.00	\$ 4,026.60	\$ 4,026.60
75			Panel LA3, 300A, 120/208V, 3PH, 4W, Mains: MCB	EA	1	0%	1	4.800	\$ 42.00	\$ 201.60	\$ 3,825.00	\$ 4,026.60	\$ 4,026.60
76			Panel LB1, 250A, 120/208V, 3PH, 4W, Mains: MCB	EA	1	0%	1	4.580	\$ 42.00	\$ 192.36	\$ 3,200.00	\$ 3,392.36	\$ 3,392.36
77			Panel LB2, 300A, 120/208V, 3PH, 4W, Mains: MCB	EA	1	0%	1	4.800	\$ 42.00	\$ 201.60	\$ 3,825.00	\$ 4,026.60	\$ 4,026.60
78			Panel LB3, 200A, 120/208V, 3PH, 4W, Mains:										

DETAILED BREAKDOWN OF ITEMS

Prepared for: **HAMPTON INN - CASA GRANDE**
Project ID: **2182 EAST FLORENCE BOULEVARD CASA GRANDE, ARIZONA**
Scope: **ELECTRICAL**



TOTAL TRADE COST	\$1,200,142
OH & PROFIT	\$120,014
INSURANCE	\$24,003
CONTINGENCY	\$36,004
TAX	\$61,397
SUGGESTED BID	\$1,441,560

Date: **22/06/2022**

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/WASTAGE	UNIT MANHOURL	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
84			Panel PP, 150A, 120/208V, 3PH, 4W, Mains; MCB, 1	EA	1	0%	1	3.800	\$ 42.00	\$ 159.60	\$ 1,275.00	\$ 1,934.60	\$ 1,934.60
85			Panel SP, 100A, 120/208V, 3PH, 4W, Mains; MCB, 1	EA	1	0%	1	3.260	\$ 42.00	\$ 136.92	\$ 1,184.64	\$ 1,321.56	\$ 1,321.56
			DEVICES:										
86			175KW Standby Type, 120/240V, 3PH, 4W Gas GEN	EA	1	0%	1	85.000	\$ 42.00	\$ 3,570.00	\$ 107,093.00	\$ 110,663.00	\$ 110,663.00
87			350A, 4-Pole Service Entrance Rated ATS-2, NEMA	EA	1	0%	1	4.150	\$ 42.00	\$ 174.30	\$ 3,787.00	\$ 3,961.30	\$ 3,961.30
88			1200A, 4-Pole Service Entrance Rated ATS-1, NEMA	EA	1	0%	1	8.660	\$ 42.00	\$ 363.72	\$ 12,177.00	\$ 12,540.72	\$ 12,540.72
89			2000A, 3PH Meter Base, NEMA 1 Enclosure	EA	1	0%	1	15.990	\$ 42.00	\$ 671.58	\$ 20,655.00	\$ 21,326.58	\$ 21,326.58
90			Fire Pump Controller	EA	1	0%	1	2.570	\$ 42.00	\$ 107.94	\$ 2,900.00	\$ 3,007.94	\$ 3,007.94
91			Jockey Pump Controller	EA	1	0%	1	1.300	\$ 42.00	\$ 54.60	\$ 830.00	\$ 884.60	\$ 884.60
92			Surge Protection Device (For Fire Pump Control Panel)	EA	1	0%	1	1.150	\$ 42.00	\$ 48.30	\$ 440.00	\$ 488.30	\$ 488.30
			DISCONNECT SWITCH:										
93			20A/1P Disconnect Switch, NEMA 3R	EA	26	0%	26	0.688	\$ 42.00	\$ 28.90	\$ 116.63	\$ 145.53	\$ 3,783.68
94			20A/1P Disconnect Switch, NEMA 1	EA	8	0%	8	0.688	\$ 42.00	\$ 28.90	\$ 116.63	\$ 145.53	\$ 1,164.21
95			20A/2P Disconnect Switch, NEMA 1	EA	5	0%	5	0.688	\$ 42.00	\$ 28.90	\$ 116.63	\$ 145.53	\$ 727.63
96			20A/3P Disconnect Switch, NEMA 3R	EA	1	0%	1	0.688	\$ 42.00	\$ 28.90	\$ 116.63	\$ 145.53	\$ 145.53
97			25A/2P Disconnect Switch, NEMA 3R	EA	3	0%	3	0.750	\$ 42.00	\$ 31.50	\$ 158.86	\$ 190.36	\$ 571.08
98			30A/2P Disconnect Switch, NEMA 1	EA	2	0%	2	0.820	\$ 42.00	\$ 34.44	\$ 189.00	\$ 223.44	\$ 446.88
99			30A/3P Disconnect Switch, NEMA 1	EA	2	0%	2	0.820	\$ 42.00	\$ 34.44	\$ 189.00	\$ 223.44	\$ 446.88
100			40A/2P Disconnect Switch, NEMA 3R	EA	1	0%	1	0.900	\$ 42.00	\$ 37.80	\$ 233.00	\$ 270.80	\$ 270.80
101			50A/2P Disconnect Switch, NEMA 3R	EA	3	0%	3	1.050	\$ 42.00	\$ 44.10	\$ 271.00	\$ 315.10	\$ 945.30
102			60A/2P Disconnect Switch, NEMA 3R	EA	3	0%	3	1.380	\$ 42.00	\$ 57.96	\$ 326.00	\$ 383.96	\$ 1,151.88
103			60A/3P Disconnect Switch, NEMA 3R	EA	2	0%	2	1.380	\$ 42.00	\$ 57.96	\$ 326.00	\$ 383.96	\$ 767.92
104			60A/3P Disconnect Switch With 60A Current Limiter	EA	1	0%	1	1.380	\$ 42.00	\$ 57.96	\$ 326.00	\$ 383.96	\$ 383.96
105			200A/3P Disconnect Switch With 200A Current Limiter	EA	2	0%	2	2.200	\$ 42.00	\$ 92.40	\$ 835.55	\$ 927.95	\$ 1,855.90
106			1200A/3P Disconnect Switch With 1200A Current Limiter	EA	1	0%	1	15.890	\$ 42.00	\$ 667.38	\$ 11,066.00	\$ 11,733.38	\$ 11,733.38
			GROUNDING:										
107			3/4" X 10' CU Clad Ground Rod	EA	12	0%	12	0.480	\$ 42.00	\$ 20.16	\$ 37.49	\$ 57.65	\$ 691.80
108			Exothermic Weld	EA	6	0%	6	1.333	\$ 42.00	\$ 55.99	\$ -	\$ 55.99	\$ 335.92
109			Grounding Clamp (For Water Piping)	EA	4	0%	4	0.122	\$ 42.00	\$ 5.12	\$ 7.80	\$ 12.92	\$ 51.70
110			#3/0 Bare CU	LF	101	5%	106	0.017	\$ 42.00	\$ 0.71	\$ 4.31	\$ 5.02	\$ 531.21
111			#2 Bare CU	LF	20	5%	21	0.013	\$ 42.00	\$ 0.55	\$ 2.07	\$ 2.62	\$ 55.27
112			#6 Bare CU	LF	180	5%	189	0.010	\$ 42.00	\$ 0.42	\$ 0.86	\$ 1.28	\$ 242.18
			POWER										
			CONDUIT:										
113			1 1/2" EMT Conduit	LF	208	5%	218	0.090	\$ 42.00	\$ 3.78	\$ 3.38	\$ 7.16	\$ 1,560.14
114			1" EMT Conduit	LF	1134	5%	1190	0.070	\$ 42.00	\$ 2.94	\$ 1.70	\$ 4.64	\$ 5,522.80
115			1" FMC Conduit	LF	36	5%	38	0.070	\$ 42.00	\$ 2.94	\$ 1.70	\$ 4.64	\$ 175.39
116			1" LFMC Conduit	LF	60	5%	63	0.070	\$ 42.00	\$ 2.94	\$ 4.29	\$ 7.23	\$ 455.49
117			1" RGS Conduit	LF	12	5%	13	0.123	\$ 42.00	\$ 5.17	\$ 4.82	\$ 9.99	\$ 125.82
118			3/4" EMT Conduit	LF	22346	5%	23463	0.062	\$ 42.00	\$ 2.98	\$ 0.94	\$ 3.92	\$ 91,882.28
119			3/4" FMC Conduit	LF	6	5%	6	0.062	\$ 42.00	\$ 2.60	\$ 0.90	\$ 3.50	\$ 22.08
120			3/4" LFMC Conduit	LF	8	5%	8	0.062	\$ 42.00	\$ 2.60	\$ 3.63	\$ 6.23	\$ 52.37
121			3/4" PVC SCH 40 Conduit	LF	618	5%	649	0.050	\$ 42.00	\$ 2.10	\$ 0.84	\$ 2.94	\$ 1,907.77
122			1/2" EMT Conduit	LF	46631	5%	48963	0.047	\$ 42.00	\$ 1.97	\$ 0.54	\$ 2.51	\$ 123,091.85
123			1/2" FMC Conduit	LF	84	5%	88	0.047	\$ 42.00	\$ 1.97	\$ 0.65	\$ 2.62	\$ 231.44
124			1/2" LFMC Conduit	LF	222	5%	233	0.047	\$ 42.00	\$ 1.97	\$ 1.70	\$ 3.67	\$ 856.41
125			1/2" PVC SCH 40 Conduit	LF	68	5%	71	0.042	\$ 42.00	\$ 1.76	\$ 0.55	\$ 2.31	\$ 164.32
126			1/2" RGS Conduit	LF	202	5%	212	0.089	\$ 42.00	\$ 3.74	\$ 2.94	\$ 6.68	\$ 1,416.40
			CONDUCTOR:										
127			#6 CU THHN/THWN	LF	3043	5%	3195	0.010	\$ 42.00	\$ 0.42	\$ 0.86	\$ 1.28	\$ 4,089.79
128			#8 CU THHN/THWN	LF	1647	5%	1729	0.009	\$ 42.00	\$ 0.38	\$ 0.56	\$ 0.94	\$ 1,622.13
129			#10 CU THHN/THWN	LF	86701	5%	91036	0.008	\$ 42.00	\$ 0.34	\$ 0.38	\$ 0.72	\$ 65,181.81
130			#12 CU THHN/THWN	LF	119580	5%	125559	0.007	\$ 42.00	\$ 0.29	\$ 0.25	\$ 0.54	\$ 68,304.10
131			#18 CU THHN/THWN	LF	2530	5%	2657	0.005	\$ 42.00	\$ 0.21	\$ 0.09	\$ 0.30	\$ 797.04
132			#22 CU THHN/THWN	LF	2408	5%	2529	0.005	\$ 42.00	\$ 0.21	\$ 0.08	\$ 0.29	\$ 733.28
			DEVICE:										
133			20A Special Purpose Receptacle	EA	94	0%	94	0.250	\$ 42.00	\$ 10.50	\$ 17.69	\$ 28.19	\$ 2,649.86
134			30A Duplex Receptacle	EA	1	0%	1	0.250	\$ 42.00	\$ 10.50	\$ 21.00	\$ 31.50	\$ 31.50
135			35A GFCI Duplex Receptacle	EA	1	0%	1	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 39.16
136			45A GFCI Duplex Receptacle	EA	1	0%	1	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 39.16
137			Door Bell With Button & ON/OFF Switch	EA	5	0%	5	0.288	\$ 42.00	\$ 12.10	\$ 25.47	\$ 37.57	\$ 187.83
138			Door Contact & ZETTLER RELAY #AZ2280 WITH	EA	92	0%	92	0.167	\$ 42.00	\$ 7.00	\$ 10.02	\$ 17.02	\$ 1,565.58
139			Duplex Receptacle	EA	101	0%	101	0.250	\$ 42.00	\$ 10.50	\$ 23.00	\$ 33.50	\$ 3,383.50
140			Duplex Receptacle C/W Two Usb Port	EA	7	0%	7	0.250	\$ 42.00	\$ 10.50	\$ 23.00	\$ 33.50	\$ 234.50
141			Duplex Receptacle, GFCI	EA	127	0%	127	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 4,973.32
142			Duplex Receptacle, GFCI, With Built-In White Night	EA	92	0%	92	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 3,602.72
143			Duplex Receptacle, GFCI, WP	EA	25	0%	25	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 979.00
144			Floor Box With Duplex Receptacle And Data Outlet	EA	4	0%	4	0.330	\$ 42.00	\$ 13.86	\$ 45.95	\$ 59.81	\$ 239.24
145			Floor Mounted Duplex Receptacle	EA	4	0%	4	0.250	\$ 42.00	\$ 10.50	\$ 23.00	\$ 33.50	\$ 134.00
146			Floor Mounted GFCI Receptacle	EA	1	0%	1	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 39.16
147			GFCI Duplex Receptacle, NEMA 5-15R	EA	7	0%	7	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 274.12
148			GFCI Duplex Receptacle, NEMA 5-20R	EA	2	0%	2	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 78.32
149			GFCI Duplex Receptacle, NEMA 6-15R	EA	1	0%	1	0.250	\$ 42.00	\$ 10.50	\$ 28.66	\$ 39.16	\$ 39.16
150			GFCI Quad Receptacle	EA	1	0%	1	0.250	\$ 42.00	\$ 10.50	\$ 31.00	\$ 41.50	\$ 41.50
151			Half Switched Duplex Receptacle	EA	212	0%	212	0.200	\$ 42.00	\$ 8.40	\$ 11.17	\$ 19.57	\$ 4,148.84
152			Half Switched Quad-Plex Receptacle	EA	120	0%	120	0.200	\$ 42.00	\$ 8.40	\$ 11.17	\$ 19.57	\$ 2,348.40
153			IG Quad Receptacle	EA	22	0%	22	0.200	\$ 42.00	\$ 8.40	\$ 18.25	\$ 26.65	\$ 586.30
154			Push Button (For Doorbell)	EA	5	0%	5	0.158	\$ 42.00	\$ 6.64	\$ 13.99	\$ 20.63	\$ 103.13
155			Quad Receptacle	EA	4	0%	4	0.250	\$ 42.00	\$ 10.50	\$ 31.00	\$ 41.50	\$ 166.00
156			Quad-Plex Receptacle	EA	92	0%	92	0.250	\$ 42.00	\$ 10.50	\$ 31.00	\$ 41.50	\$ 3,818.00
157			Single Pole Toggle Switch	EA	3	0%	3	0.138	\$ 42.00	\$ 5.80	\$ 7.99	\$ 13.79	\$ 41.36
158			Weatherproof GFCI Duplex Receptacle In Cast Weat	EA	14	0%	14	0.320	\$ 42.00	\$ 13.44	\$ 36.48	\$ 49.92	\$ 698.88
159			Junction Box (For VERDANT Thermostat With Built	EA	92	0%	92	0.155	\$ 42.00	\$ 6.51	\$ 10.99	\$ 17.50	\$ 1,610.00
			SITE LIGHTING										
			CONDUIT:										
160			1" EMT Conduit	LF	274	5%	288	0.070	\$ 42.00	\$ 2.94	\$ 1.70	\$ 4.64	\$ 1,334.78
161			1" PVC SCH 40 Conduit	LF	1101	5%	1156	0.064	\$ 42.00	\$ 2.69	\$ 0.96	\$ 3.65	\$ 4,217.69
			CONDUCTOR:							\$ -			
162			#10 CU THHN/THWN	LF	4725	5%	4962	0.008	\$ 42.00	\$ 0.34	\$ 0.38	\$ 0.72	\$ 3,552.62
			LIGHTING FIXTURES:										
163			SB, Pole Light-2 Light, SARIN ENERGY LIGHTING	EA	7	0%	7	1.880	\$ 42.00	\$ 78.96	\$ 565.00	\$ 643.96	\$ 4,507.72
			25' Painted Round Tapered Steel Pole	EA	7	0%	7	3.120	\$ 42.00	\$ 131.04	\$ 1,360.00	\$ 1,491.04	\$ 10,437.28
			24" Dia Concrete Base	EA	7	0%	7	5.000	\$ 42.00	\$ 210.00	\$ 300.00	\$ 510.00	\$ 3,570.00
164			SC, Pole Light-3 Light, SARIN ENERGY LIGHTING	EA	1	0%	1	1.880	\$ 42.00	\$ 78.96	\$ 565.00	\$ 643.96	\$ 4,507.72
			25' Painted Round Tapered Steel Pole	EA	1	0%	1	3.120	\$ 42.00	\$ 131.04	\$ 1,360.00	\$ 1,491.04	\$ 10,437.28
			24" Dia Concrete Base	EA	1	0%	1	5.000	\$ 42.00	\$ 210.00	\$ 300.00	\$ 510.00	\$ 3,570.00
			LIGHTING										
			CONDUIT: </										

DETAILED BREAKDOWN OF ITEMS

Prepared for: HAMPTON INN - CASA GRANDE
Project ID: 2182 EAST FLORENCE BOULEVARD CASA GRANDE, ARIZONA
Scope: ELECTRICAL



TOTAL TRADE COST	\$1,200,142
OH & PROFIT	\$120,014
INSURANCE	\$24,003
CONTINGENCY	\$36,004
TAX	\$61,397
SUGGESTED BID	\$1,441,560

Date: 22/06/2022

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
165			3/4" EMT Conduit	LF	1132	5%	1189	0.062	\$ 42.00	\$ 2.98	\$ 0.94	\$ 3.92	4,655.01
166			1/2" EMT Conduit	LF	5837	5%	6128	0.047	\$ 42.00	\$ 1.97	\$ 0.54	\$ 2.51	15,406.90
			CONDUCTOR:										
167			#10 CU THHN/THWN	LF	13283	5%	13947	0.008	\$ 42.00	\$ 0.34	\$ 0.38	\$ 0.72	9,986.21
168			#12 CU THHN/THWN	LF	7414	5%	7784	0.007	\$ 42.00	\$ 0.29	\$ 0.25	\$ 0.54	4,234.72
			LIGHTING FIXTURES:										
169			A, 36" VANITY, SARIN SES-VF-3FT-36W	EA	92	0%	92	0.520	\$ 42.00	\$ 21.84	\$ 44.95	\$ 66.79	6,144.68
170			D, 6 DOWNLIGHT, SARIN SES-SDL6-CCT-14	EA	141	0%	141	0.500	\$ 42.00	\$ 21.00	\$ 29.68	\$ 50.68	7,145.88
171			DI, 6" DOWNLIGHT, SARIN SES-CDL6-3000-27	EA	17	0%	17	0.500	\$ 42.00	\$ 21.00	\$ 29.68	\$ 50.68	861.56
172			E, 1X4 PANEL, SARIN SES-P1-4000-40-1X4	EA	36	0%	36	0.950	\$ 42.00	\$ 39.90	\$ 87.50	\$ 127.40	4,586.40
173			F, 4" CCT ADJUSTABLE DOWNLIGHT, SARIN SES-4"	EA	118	0%	118	0.500	\$ 42.00	\$ 21.00	\$ 22.33	\$ 43.33	5,112.94
174			G, 4" WRAPAROUND, SARIN SES-WR-4000-48	EA	12	0%	12	0.950	\$ 42.00	\$ 39.90	\$ 87.50	\$ 127.40	1,528.80
175			H, DECORATIVE CEILING LAMP, DAMP LOCAT	EA	92	0%	92	2.300	\$ 42.00	\$ 96.60	\$ 479.00	\$ 575.60	52,955.20
176			HI, 6 DOWNLIGHT, SARIN SES-DL836-15-4000	EA	97	0%	97	0.500	\$ 42.00	\$ 21.00	\$ 29.68	\$ 50.68	4,915.96
177			K, SARIN SELECTED BY OWNER/ ARCHITECT	EA	54	0%	54	0.950	\$ 42.00	\$ 39.90	\$ 87.50	\$ 127.40	6,879.60
178			LS, 5 METER STRIP LIGHT w/ LINEAR CHANNE	LF	163	0%	163	0.200	\$ 42.00	\$ 8.40	\$ 18.66	\$ 27.06	4,398.33
179			N, 4" GIMBAL DOWNLIGHT, SARIN SES-4"-GIM	EA	14	0%	14	0.500	\$ 42.00	\$ 21.00	\$ 32.55	\$ 53.55	749.70
180			P, 2x4" TROFFER, CCT & WATTAGE ADJUSTAB	EA	27	0%	27	0.900	\$ 42.00	\$ 37.80	\$ 84.00	\$ 121.80	3,288.60
181			PA-203, SARIN SELECTED BY OWNER/ ARCHIT	EA	2	0%	2	0.900	\$ 42.00	\$ 37.80	\$ 84.00	\$ 121.80	243.60
182			PA-206, SARIN SELECTED BY OWNER/ ARCHIT	EA	10	0%	10	0.900	\$ 42.00	\$ 37.80	\$ 84.00	\$ 121.80	1,218.00
183			R, 2x2" TROFFER, CCT & WATTAGE ADJUSTAB	EA	35	0%	35	0.900	\$ 42.00	\$ 37.80	\$ 84.00	\$ 121.80	4,263.00
184			R1, OUTDOOR AREA LIGHT, SARIN SELECTED	EA	7	0%	7	0.800	\$ 42.00	\$ 33.60	\$ 59.97	\$ 93.57	654.90
185			RECESSED CAN LIGHT EQUAL TO INTERLUM X	EA	15	0%	15	0.500	\$ 42.00	\$ 21.00	\$ 27.00	\$ 48.00	720.00
186			SI, SARIN SELECTED BY OWNER	EA	1	0%	1	0.820	\$ 42.00	\$ 34.44	\$ 155.00	\$ 189.44	189.44
187			SE, FLOOD LIGHT, SARIN SES-FLO6-3000-30 LAR	EA	19	0%	19	0.760	\$ 42.00	\$ 31.92	\$ 169.99	\$ 201.91	3,838.20
188			SF, 7.5IN DISK LIGHT, SURFACE MOUNTABLE,	EA	3	0%	3	0.600	\$ 42.00	\$ 25.20	\$ 73.00	\$ 98.20	294.60
189			SF1, 6 DOWNLIGHT, SARIN SES-CDL6-3000-27	EA	15	0%	15	0.600	\$ 42.00	\$ 25.20	\$ 64.00	\$ 89.20	1,338.00
190			SF2, 6 DOWNLIGHT, SARIN SES-CDL6-3000-27	EA	10	0%	10	0.600	\$ 42.00	\$ 25.20	\$ 64.00	\$ 89.20	892.00
191			X1, EXIT SIGN w/ BATTERY BACKUP, SARIN SE	EA	13	0%	13	0.580	\$ 42.00	\$ 24.36	\$ 58.99	\$ 83.35	1,083.55
192			X2, EXIT SIGN w/ BATTERY BACKUP, SARIN SE	EA	9	0%	9	0.580	\$ 42.00	\$ 24.36	\$ 58.99	\$ 83.35	750.15
193			X3, EXIT SIGN w/ BATTERY BACKUP, SARIN SE	EA	19	0%	19	0.580	\$ 42.00	\$ 24.36	\$ 58.99	\$ 83.35	1,583.65
194			X4, EMERGENCY LIGHTS w/ BATTERY BACKUP	EA	99	0%	99	0.580	\$ 42.00	\$ 24.36	\$ 58.99	\$ 83.35	8,251.65
195			X5, EXIT SIGN w/ BATTERY BACKUP, SARIN SE	EA	4	0%	4	0.580	\$ 42.00	\$ 24.36	\$ 58.99	\$ 83.35	333.40
196			X6, EMERGENCY LIGHTS w/ BATTERY BACKUP	EA	6	0%	6	0.580	\$ 42.00	\$ 24.36	\$ 58.99	\$ 83.35	500.10
			LIGHTING CONTROL:										
197			Dimmer Switch	EA	3	0%	3	0.160	\$ 42.00	\$ 6.72	\$ 12.99	\$ 19.71	59.13
198			Dimming Control Panel	EA	1	0%	1	2.000	\$ 42.00	\$ 84.00	\$ 835.50	\$ 919.50	919.50
199			Keypad Switch	EA	3	0%	3	0.200	\$ 42.00	\$ 8.40	\$ 24.29	\$ 32.69	98.07
200			Occupancy Sensor Switch	EA	92	0%	92	0.160	\$ 42.00	\$ 6.72	\$ 12.00	\$ 18.72	1,722.24
201			Occupancy Sensor With Override Switch	EA	1	0%	1	0.160	\$ 42.00	\$ 6.72	\$ 12.00	\$ 18.72	18.72
202			Single Pole Switch	EA	200	0%	200	0.138	\$ 42.00	\$ 8.58	\$ 7.99	\$ 13.79	2,757.20
203			Wall Occupancy Sensor C/W Override Switch	EA	24	0%	24	0.220	\$ 42.00	\$ 9.24	\$ 36.43	\$ 45.67	1,096.08
204			30A Mechanically Held Contactor, NEMA 1, SQUAR	EA	1	0%	1	1.680	\$ 42.00	\$ 70.56	\$ 735.00	\$ 805.56	805.56
205			Ceiling Mounted Occupancy Sensor, WATTSTOPP	EA	5	0%	5	0.720	\$ 42.00	\$ 30.24	\$ 85.00	\$ 115.24	576.20
			COMMUNICATION SYSTEM ROUGH-IN										
			CONDUIT:										
206			4" PVC SCH 40 Conduit With Pullstring	LF	204	5%	214	0.178	\$ 42.00	\$ 7.48	\$ 5.68	\$ 13.16	2,819.40
207			3/4" EMT Conduit With Pullstring Upto Ceiling	LF	6285	5%	6599	0.062	\$ 42.00	\$ 2.98	\$ 0.94	\$ 3.92	25,842.66
			COMMUNICATION DEVICES:										
208			Cable TV Board	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
209			Card Reader	EA	6	0%	6		\$ 42.00	\$ -		\$ -	-
210			Card Reader, WP	EA	2	0%	2		\$ 42.00	\$ -		\$ -	-
211			Data Outlet	EA	92	0%	92		\$ 42.00	\$ -		\$ -	-
212			Duplex Voice/Data Outlet	EA	17	0%	17		\$ 42.00	\$ -		\$ -	-
213			Intercom	EA	2	0%	2		\$ 42.00	\$ -		\$ -	-
214			Security Board	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
215			Telephone Back BoardBoard	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
216			Telephone Outlet	EA	106	0%	106		\$ 42.00	\$ -		\$ -	-
217			Television Outlet	EA	97	0%	97		\$ 42.00	\$ -		\$ -	-
218			Voice/Data Outlet	EA	92	0%	92		\$ 42.00	\$ -		\$ -	-
219			Wireless Access Point	EA	2	0%	2		\$ 42.00	\$ -		\$ -	-
220			Back Box	EA	419	0%	419	0.100	\$ 42.00	\$ 4.20	\$ 4.39	\$ 8.59	3,599.21
			FIRE ALARM SYSTEM ROUGH-IN										
			CONDUIT:										
221			3/4" EMT Conduit With Pullstring	LF	5265	5%	5528	0.062	\$ 42.00	\$ 2.98	\$ 0.94	\$ 3.92	21,648.63
			FIRE ALARM DEVICES:										
222			2-Way Communication System	EA	8	0%	8		\$ 42.00	\$ -		\$ -	-
223			Carbon Monoxide Detector	EA	3	0%	3		\$ 42.00	\$ -		\$ -	-
224			Combination Horn/Strobe Light	EA	36	0%	36		\$ 42.00	\$ -		\$ -	-
225			Fire Alarm Control Panel	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
226			Fire Alarm Manual Pull Station	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
227			Fire Bell, WP	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
228			Flow Switch	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
229			Guestroom Annunciator Audio	EA	87	0%	87		\$ 42.00	\$ -		\$ -	-
230			Guestroom Annunciator Audio/Visual	EA	8	0%	8		\$ 42.00	\$ -		\$ -	-
231			Heat Detector	EA	13	0%	13		\$ 42.00	\$ -		\$ -	-
232			Magnetic Door Holder	EA	14	0%	14		\$ 42.00	\$ -		\$ -	-
233			Smoke Detector	EA	164	0%	164		\$ 42.00	\$ -		\$ -	-
234			Strobe Light	EA	13	0%	13		\$ 42.00	\$ -		\$ -	-
235			Tamper Switch	EA	1	0%	1		\$ 42.00	\$ -		\$ -	-
236			Back Box	EA	351	0%	351	0.100	\$ 42.00	\$ 4.20	\$ 4.39	\$ 8.59	3,015.09
			MISCELLANEOUS										
237			Concrete Duct Bank	CY	6	0%	6	3.000	\$ 42.00	\$ 126.00	\$ 255.00	\$ 381.00	2,393.15
238			Concrete Pad (For 2000A Main Distribution Board M	EA	1	0%	1	4.000	\$ 42.00	\$ 168.00	\$ 800.00	\$ 968.00	968.00
239			Concrete Pad (For Utility Transformer)	EA	1	0%	1	4.000	\$ 42.00	\$ 168.00	\$ 1,100.00	\$ 1,268.00	1,268.00
240			Junction Box	EA	14	0%	14	0.160	\$ 42.00	\$ 6.72	\$ 10.69	\$ 17.41	243.74
241			Junction Box, WP	EA	19	0%	19	0.160	\$ 42.00	\$ 6.72	\$ 15.22	\$ 21.94	416.86
			TRENCHING & BACKFILLING:										
242			Excavation & Backfilling (2' Deep x 1' Wide Trench)	CLF	3524	0%	3524	0.085	\$ 42.00	\$ 3.57	\$ -	\$ 3.57	12,580.68

SUBTOTAL												\$ 1,134,864	
PROJECTED COST												\$1,200,142	
OVERHEAD AND PROFIT												10%	\$120,014
INSURANCE												2%	\$24,003
CONTINGENCY												3%	\$36,004
TAX												9%	\$61,397
SUGGESTED BID												\$1,441,560	