10.10.18

01.09.19

03.06.19

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DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC

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**DESCRIPTION** 

PRE-APP MTG

MINOR SITE PLAN

CITY SUBMITTAL

SHEET ISSUE/REV:

7201 N. DREAMY DRAW DRIVE, SUITE 200

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Scale 1/4" = 1'-0"

#### SHEET INDEX

|               |                                      | Number     | Sheet Name                         | Date    |
|---------------|--------------------------------------|------------|------------------------------------|---------|
|               |                                      | Architectu | ıral                               |         |
| MICRO         | MICROWAVE                            | A000       | COVER SHEET                        | 03/06/1 |
| MIN           | MINIMUM                              | A001       | CODE DATA & EGRESS PLAN            | 03/06/1 |
| MIR           | MIRROR                               | A001       | ENVELOPE COMCHECK                  | 03/06/1 |
| MISC          | MISCELLANEOUS                        |            |                                    |         |
| MM<br>MTL     | MILLIMETER, -S<br>METAL              | A100       | SITE PLAN                          | 03/06/1 |
| MULL          | MULLION                              | A101       | SITE DEMO PLAN                     | 03/06/1 |
| N             | NORTH                                | A102       | FLOOR PLAN                         | 03/06/1 |
| NA            | NOT APPLICABLE                       | A103       | ASSEMBLY TYPE INFORMATION          | 03/06/1 |
| NIC           | NOT IN CONTRACT                      | A110       | REFLECTED CEILING PLAN             | 03/06/1 |
| NO, #<br>NOM  | NUMBER<br>NOMINAL                    | A120       | ROOF PLAN                          | 03/06/1 |
| NTS           | NOT TO SCALE                         | A200       | ELEVATIONS                         | 03/06/1 |
| OC            | ON CENTER                            | A300       | BUILDING SECTIONS                  | 03/06/1 |
| OD            | OVERFLOW DRAIN                       | A400       | SECTION DETAILS                    | 03/06/1 |
| OFCI          | OWNER<br>FURNISHED/CONTRACTOR        | A401       | SECTION DETAILS                    | 03/06/1 |
|               | INSTALLED                            | A500       | PLAN DETAILS                       | 03/06/1 |
| OFI           | OWNER FURNISHED &                    |            |                                    |         |
| ОН            | INSTALLED<br>OPPOSITE HAND           | A600       | DOOR, WINDOW, & FINISH SCHED       | 03/06/1 |
| OPP           | OPPOSITE                             | A802       | DOOR AND WINDOW DETAILS            | 03/06/1 |
| OSB           | ORIENTED STRANDBOARD                 | A803       | MISC. DETAILS                      | 03/06/1 |
| OZ            | OUNCE                                | Structural |                                    |         |
| PCF<br>PERF   | POUNDS PER CUBIC FEET                | S0.1       | GENERAL STRUCTURAL NOTES           | 03/06/1 |
| PENF<br>PL    | PERFORATE, -D<br>PLATE               | S0.2       | GSN CONT & SPECIAL INSP            | 03/06/1 |
| PLAM          | PLASTIC LAMINATE                     | S0.3       | SPECIAL INSPECTION SCHED SHEET     | 03/06/1 |
| PLAS          | PLASTER                              | S1.1       | TYPICAL DETAILS                    | 03/06/1 |
| PLYWD         | PLYWOOD                              | S1.2       | TYPICAL DETAILS                    | 03/06/1 |
| PNL<br>PNT, P | PANEL<br>PAINT, -ED                  | S1.3       | TYPICAL DETAILS                    | 03/06/1 |
| PORC          | PORCELAIN                            | S1.4       | TYPICAL DETAILS                    | 03/06/1 |
| POS           | POSTITION                            |            |                                    |         |
| PREFAB        | PREFABRICATE, -D                     | S1.5       | TYPICAL DETAILS                    | 03/06/1 |
| PTN<br>R      | PARTITION<br>RECEPTACLE              | S2.1       | FOUNDATION PLAN                    | 03/06/1 |
| n<br>R        | RISER                                | S3.1       | FRAMING PLAN                       | 03/06/1 |
| RAD           | RADIUS                               | S4.1       | FOUNDATION DETAILS                 | 03/06/1 |
| RCP           | REFLECTED CEILING PLAN               | S4.2       | FOUNDATION DETAILS                 | 03/06/1 |
| RD            | ROOF DRAIN                           | S5.1       | FRAMING DETAILS                    | 03/06/1 |
| REF<br>REFL   | REFERENCE<br>REFLECT, -ED, -IVE, -OR | S5.2       | FRAMING DETAILS                    | 03/06/1 |
| REFR          | REFRIGERATOR                         | Plumbing   |                                    |         |
| REINF         | REINFORCE                            | P001       | PLUMBING SCHEDULES & NOTES         | 03/06/1 |
| REM           | REMOVE                               | P002       | PLUMBING DETAILS                   | 03/06/1 |
| REQ'D<br>REV  | REQUIRED<br>REVISE, REVISION         | P100       | PLUMBING SITE PLAN                 | 03/06/1 |
| RO            | ROUGH OPENING                        |            |                                    |         |
| S             | SOUTH                                | P200       | PLUMBING PLAN                      | 03/06/1 |
| SCHED         | SCHEDULE                             | P300       | PLUMBING ROOF PLAN                 | 03/06/1 |
| SEAL          | SEALANT                              | P400       | PLUMBING SPECIFICATIONS            | 03/06/1 |
| SECT<br>SHT   | SECTION<br>SHEET                     | Mechanic   | eal                                |         |
| SHTHG         | SHEATHING                            | M001       | MECHANICAL SCHEDULES               | 03/06/1 |
| SHWR          | SHOWER                               | M002       | MECHANICAL SCHEDULES               | 03/06/1 |
| SIL           | SILICONE                             | M200       | MECHANICAL FLOOR PLAN              | 03/06/1 |
| SIM           | SIMILAR                              | M300       | MECHANICAL SPECIFICATIONS          | 03/06/1 |
| SPEC<br>SPF   | SPECIFICATION (S) SPRAY POLYURETHANE | M301       | MECHANICAL SPECIFICATIONS          | 03/06/1 |
|               | FOAM                                 | M302       | MECHANICAL SPECIFICATIONS          | 03/06/1 |
| SPK           | SPEAKER                              |            | WEGIANIOAL OF LOFTOATIONS          | 03/00/1 |
| SPR<br>SO     | SINGLE-PLY ROOFING<br>SQUARE         | Electrical | ELECTRICAL LECEND AND COLUED IN EC | 00/00/4 |
| SQ<br>SST, SS | SQUARE<br>STAINLESS STEEL            | E001       | ELECTRICAL LEGEND, AND SCHEDULES   | 03/06/1 |
| STC           | SOUND TRANSMISSION                   | E002       | ELECTRICAL SPECIFICATIONS          | 03/06/1 |
| OTD           | CLASS                                | E100       | ELECTRICAL SITE PLAN               | 03/06/1 |
| STD<br>STL    | STANDARD<br>STEEL                    | E101       | PHOTOMETRIC SITE PLAN              | 03/06/1 |
| STOR          | STORAGE                              | E102       | EXTERIOR LTG CUT SHEETS            | 03/06/1 |
| STR, STRL     | STRUCTURE, STRUCTURAL                | E200       | ELECTRICAL PLANS                   | 03/06/1 |
| SYM           | SYMMETRY, -IC(AL)                    | E201       | LIGHTING CONTROLS                  | 03/06/1 |
| Т             | TEL/DATA OUTLET                      | F000       | ONE LINE DIA AND DANIEL COLLED     | 00/00/4 |

# **GENERAL NOTES**

IF THERE IS A CONFLICT BETWEEN ANY NOTES, DRAWINGS, OR SPECIFICATIONS,

03/06/19

THE MOST RESTRICTIVE SHALL APPLY. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE GOVERNING EDITION OF THE INTERNATIONAL BUILDING CODE, OR SUCH OTHER LEGAL CODES, AND SHALL CONFORM TO ANY SPECIAL REQUIREMENTS OF ANY LENDING OR GOVERNMENTAL

ONE-LINE DIA AND PANEL SCHED

CONTRACTOR AND SUBCONTRACTORS SHALL BE LICENSED IN THE STATE OF THE PROJECT SITE AND SHALL BE KNOWLEDGEABLE, SKILLED, AND COMPETENT TO PERFORM THE INTENDED WORK.

CONTRACTOR AND SUBCONTRACTOR SHALL ENSURE THAT ALL WORK IS PERFORMED IN A PROFESSIONAL MANER BY SKILLED CRAFTSMAN OR TRADESMAN AND SHALL REPLACE ANY ITEMS DAMAGED BY THE CONTRACTOR OR SUBCONTRACTORS AT NO COST TO THE OWNER. SUBCONTRACTORS SHOULD COOPERATE FULLY WITH EACH OTHER DURING THE COURSE OF CONSTRUCTION TO DETERMINE THE EXACT EXTENT AND OVERLAP OF EACH OTHERS WORK AND TO SUCCESSFULLY COMPLETE THE EXECUTION OF THE WORK IN A TIMELY

CONTRACTOR AND SUBCONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES, AND FOR THE SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK.

CONTRACTOR AND SUBCONTRACTORS SHALL AT ALL TIMES INDEMNIFY AND HOLD THE ARCHITECT HARMLESS AGAINST ALL LIABILITY FOR CLAIMS AND LIENS FOR LABOR PERFORMED OR MATERIALS USED OR FURNISHED TO BE USED ON THE JOB, INCLUDING ANY COSTS AND EXPENSES FOR ATTORNEY FEES AND ALL INCIDENTIAL OR CONSEQUENTIAL DAMAGES RESULTING TO THE ARCHITECT ARISING FROM SUCH CLAIMS.

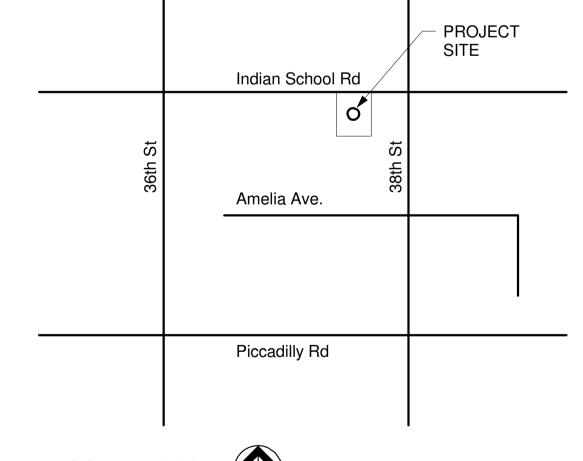
ALL BIDS SUBMITTED AND ACCEPTED UNDER THIS CONTRACT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DOCUMENTS.

THE ARCHITECT NEITHER WARRANTS NOR GUARANTEES ANY CONSTRUCTION MATERIAL, EQUIPMENT, APPLIANCE, FIXTURE, HARDWARE, FINISH, OR MEAN/METHOD OF CONSTRUCTION. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY PROJECT SITE GRADING OR DRAINAGE, NOR ANY TOXIC AND HAZARDOUS MATERIAL, GROUND EROSION, CORROSION, SUBSOIL, OR AIR AND WATER CONDITIONS, OR SIMILAR SUCH CONDITIONS OF THE PROJECT.

# WANDERIST OFFICE & RETAIL

3743 E. INDIAN SCHOOL ROAD, PHOENIX, AZ 85018





### PROJECT DESCRIPTION NEW 3,760 SF OFFICE/RETAIL BUILDING

### CONSTRUCTED ON EXISTING SLAB ON GRADE. **DEFERRED SUBMITTALS**

#### FIRELINE **GATE ACCESS** FIRE SPRINKLER FIRE ALARM

# SEPARATE SUBMITTALS

#### LANDSCAPE INVENTORY/SALVAGE GATES CONTRACTOR & OWNER NOTICE

#### THIS PROJECT HAS BEEN PERMITTED UNDER THE CITY OF PHOENIX SELF-CERTIFICATION PROGRAM. THE PROJECT IS SUBJECT TO AUDIT AND FIELD INSPECTION BY THE PLANNING & DEVELOPMENT DEPARTMENT, IF THE CONSTRUCTION OF THE PROJECT IS CONTRARY TO, OR DOES NOT MEET THE STANDARD OF THE CITY OF PHOENIX BUILDING CONSTRUCTION CODES, THE OWNER, AT HIS/HER OWN EXPENSE, SHALL REMOVE OR MODIFY ANY AND ALL COMPONENTS THAT DO NOT CONFORM. ANY DEVIATIONS FROM THE APPROVED PLAN MUST BE COORDINATED IN ADVANCE WITH THE CITY INSPECTOR AND REVISED PLANS OR SKETCHES MUST BE PROVIDED BY THE SELF-CERTIFIED PROFESSIONAL. **CERTIFICATION STATEMENT** I HEREBY CERTIFY THAT THESE DRAWINGS ARE PREPARED BY ME, UNDER MY SUPERVISION, OR REVIEWED BY ME AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE CONFORM TO THE

PHOENIX BUILDING CONSTRUCTION CODE. DATE: 03/11/19 SELF CERTIFIED BY: DONALD ANDRÉWS CERTIFICATE #45 OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, - PLANS ARE COMPLETE. - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

# CODE COMPLIANCE

2018 INTERNATIONAL BUILDING CODE 2018 UNIFORM PLUMBING CODE 2018 INTERNATIONAL MECHANICAL CODE 2017 NATIONAL ELECTRIC CODE 2018 INTERNATIONAL FUEL AND GAS CODE 2018 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

SPECIAL INSPECTIONS

2012 INTERNATIONAL FIRE CODE

**City of Phoenix** PLANNING & DEVELOPMENT DEPARTMENT Self-Certified Plans - Official Construction Set This set of Self Certified plans shall be kept at the construction site cceptance of these plans shall not prevent the City from requiring orrection of errors in the plans where such errors are ubsequently found to be in violation of any code, law, ordinance, health, safety, or other design issues. IBC - Stevan Varnell 602-534-8705 IMC-UPC - John Lanoue 602-534-2881

> KIVA #18-1372 SDEV #1800276 PAPP #1806619 PRLC QS Q16-36

EXPANDED POLYSTYRENE

**ABBREVIATIONS** 

AIR CONDITIONING

ADDENDUM

**ADJUSTABLE** 

ALUMINUM

**ANODIZED** 

BETWEEN

BUILDING

CABINET

CEMENT

CEILING

CLOSET

COLUMN

CONCRETE

**CORRIDOR** 

DEPRESSED

DIAMETER

DIAGONAL

DIMENSION **DOWN** 

EAST

DAMPPROOFING DRAWING

FINISH SYSTEM

ELECTRICAL

**ELEVATOR** 

**EQUAL EQUIPMENT EXISTING** 

**EXPOSED** 

**EXTERIOR** FIRE ALARM FLOOR DRAIN **FOUNDATION** FIRE EXTINGUISHER

FINISH

**FUTURE** 

GAUGE

**GYPSUM** 

HOSE BIB

HEIGHT

GALVANIZED

FLOOR, -ING

FINISHED FLOOR

FIRE HOSE CABINET

FACE OF CONCRETE

FACE OF MASONRY

FACE OF FINISH

FACE OF STUDS

**GROUND FAULT** 

GYPSUM BOARD

**HOLLOW METAL** 

CONDITIONING

**INSIDE DIAMETER** 

INCLUDE, -D, -ING

**HOLLOW STEEL SHAPE** 

INSULATE, -ION, -D, -ING

HORIZONTAL

**INTERIOR** 

**KITCHEN** 

LAMINATE

LAVATORY

MASONRY

MATERIAL, -

MAXIMUM

MEDIUM

**MEMBRANE** 

METAL, -LIC

**MANUFACTURED** 

MANUFACTURER

MEDIUM DENSITY

FIBERBOARD

MECHANIC, -AL

JOINT

LEVEL

**INTERRUPTER** 

**EMERGENCY** 

**EXPANSION JOINT ELEVATION** 

ELECTRICAL PANEL

EXTERIOR INSULATION AND

CENTER

CONSTRUCTION

CONTINUE, -OUS

DEMOLISH, DEMOLITION

ANOD

**BETW** 

**BLDG** 

CMU

COL

CONC

CONST

CONT

CORR

CTR

DEMO

DIAG

DIM

EIFS

ELEV

**EMER** 

EX, (E) EXP

EXT

FLR, FL

GAL, GALV

GWB

HGT. HT

HVAC

INCL

INSUL

LVL

MANUF

MAT, MATL

MAS

MDF

DEP, DEPR

CONSTR

APPROX

**ALTERNATE** 

**APPROXIMATE** 

ARCHITECT, -URAL

**BOTTOM OF CURB** 

CARD READER

CATCH BASIN

CONTROL JOINT CENTERLINE

CLEAR, -ANCE

CENTIMETER

CONCRETE MASONRY UNIT

BOTTOM OF FOOTING

ACOUSTICAL TREATMENT

(CEILING TILE OR PANEL)

ABOVE FINISH FLOOR

FIRE EXTINGUISHER CABINET

**VERT** 

WDW

TEL/DATA OUTLET T STAT THERMOSTAT T&G TONGUE AND GROOVE TELEPHONE THICK, -NESS THROUGH THRU TOC TOP OF CONCRETE, CURB

GLASS, GLAZING, GLAZED TOF TOP OF FOOTING TOP OF PAVEMENT TOS TOP OF STEEL TOW TOP OF WALL TRANS, TPT TRANSPARENT TELEVISION **TYPICAL** HEATING, VENTILATING, AIR

**UNDER CABINET** UNDERWRITERS' LABORATORIES UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED VINYL COMPOSITION TILE

VERTICAL VERIFY IN FIELD WEST WIDTH WITH WITHOUT WATER CLOSET

WOOD WINDOW WIDE FLANGE WATERPROOF, -ING

WATERPROOFING, CRYSTALLINE WEIGHT WELDED WIRE FABRIC EXTRUDED POLYSTYRENE

INSULATION

1 REQUIRED

1 CODE PLAN AND EXITING DIAGRAM

| IBC TABLE 2902.1 |           |  |  |                  |                              |                   |
|------------------|-----------|--|--|------------------|------------------------------|-------------------|
| CLASSIFICATION   | OCCUPANCY | WATER<br>CLOSETS   | LAVS   | TUB /<br>SHOWERS | DRINKING<br>FOUNTAINS        | OTHER             |
| BUSINESS         | В         | 1 per 25 for the first 50<br>and 1 per 50 for the<br>remainder exceeding 50<br>14/50 = .28 | 1 per 40 for the first 80<br>and 1 per 80 for the<br>remainder exceeding 80<br>14/40 = .35 | -                | 1 per 100<br>14/100 = .14    | 1 Service<br>Sink |
| MERCANTILE       | М         | 1 per 500<br>78/500 = .15  | 1 per 750<br>78/750 = .10  | -                | 1 per 1000<br>78/1000 = .078 | 1 Service<br>Sink |
| WATER CLOSETS    | D         | RINKING FOUNTA   | AINS   |                  |                              | SERVICE SINK      |

WATER COOLER PROVIDED IN LIEU OF DRINKING FOUNTAIN 1 PROVIDED 2 PROVIDED NOTE: PER IBC 2902.2 SEPARATE FACILITIES ARE NOT REQ'D FOR EA. SEX IN MERCANTILE OCCUPANCIES W/ MAXIMUM OCCUPANT LOAD OF 100 OR FEWER OR BUSINESS OCCUPANCIES W/ 25 OR FEWER.

PROVIDE UNISEX SIGNAGE PER IBC 2902.4

1 REQUIRED

### IECC DATA

1 REQUIRED

+ +

**TOILET** 

TISSUE

DISPENSER

18" VERTICAL

GRAB BAR

42" GRAB

ADA 4.17 FIG 29

**OUTLINE OF** 

RECESSED TOILET

(WHERE OCCURS

TISSUE/COVER

DISPENSER

SEE INTERIOR

**ELEVATIONS**)

CLEAR AREA

- 18" GRAB BAR

FOR GRAB BAR

- 42" GRAB

5' FIRE RATED

**PROTECTION** 

2 HOUR RATED

**EXTERIOR WALL** 

PER IBC 2018 TABLE 602.

OPENING

TOILET TISSUE

6" MAX.

SIDE ELEVATION

ADA 4.19, FIG 31 & 32

ICC/ANSI 606.6 & 606.3

G100-1010E

14. SIDE ELEVATION DISPENSER

ICC/ANSI 604.2 -- .7

G100-1010F

OF FIXT.

36" GRAB

30" CLEAR

16. BATHROOM PLAN

60" MIN. TO

WALL TO EDGE OF LAV.

**15. FRONT ELEVATION** 

**CLEAR FLOOR** 

SPACE

30" MIN.

DISPENSER

SINK PLAN

**FRONT ELEVATION** 

2 ACCESSIBLE LAVATORY
1/2" = 1'-0"

INSULATE **EXPOSED PIPES**  3 SINGLE TOILET ROOM 1/2" = 1'-0"

18" C.L.

OF FIXT

60" MIN.

-TO EDGE OF LAVATORY/

1' - 6"

─39 - 41" MAX.<sup>\_</sup>

ALL NEW FENESTRATION MUST MEET REQUIREMENTS OF 2012 IECC TABLE C402.3 CLIMATE ZONE 2

| CLIMATE ZONE  | 1    | 2                                      | 3     | 4 EXCEPT MARINE   | 5 AND MARINE 4 | 6    | 7      | 8    |
|---|------|--|-------|-------------------|----------------|------|--------|------|
|   |      |  | Verti | ical fenestration |                |      |        |      |
| U-factor  |      |  |       |                   |                |      |        |      |
| Fixed fenestration  | 0.50 | 0.50                                   | 0.46  | 0.38              | 0.38           | 0.36 | 0.29   | 0.29 |
| Operable fenestration   | 0.65 | 0.65                                   | 0.60  | 0.45              | 0.45           | 0.43 | 0.37   | 0.37 |
| Entrance doors  | 1.10 | 0.83                                   | 0.77  | 0.77              | 0.77           | 0.77 | 0.77   | 0.77 |
| SHGC  |      |  |       |                   |                |      | V      |      |
| SHGC  | 0.25 | 0.25                                   | 0.25  | 0.40              | 0.40           | 0.40 | 0.45   | 0.45 |
| Maria 100 Maria |      | W ==================================== |       | Skylights         | 400            |      | 59 N X | 18   |
| U-factor  | 0.75 | 0.65                                   | 0.55  | 0.50              | 0.50           | 0.50 | 0.50   | 0.50 |
| SHGC  | 0.35 | 0.35                                   | 0.35  | 0.40              | 0.40           | 0.40 | NR     | NR   |

### OCCUPANT LOAD

| OCCUPANT LOAD TABLE |           |         |              |             |                  |  |  |  |  |  |
|---------------------|-----------|---------|--------------|-------------|------------------|--|--|--|--|--|
| AREA NAME           | USE GROUP | AREA    | NET OR GROSS | LOAD FACTOR | OCCUPANT<br>LOAD |  |  |  |  |  |
| OFFICE & STOCK ROOM | В         | 1408 SF | GROSS        | 100 SF      | 14               |  |  |  |  |  |
| RETAIL AREA         | M         | 2336 SF | GROSS        | 30 SF       | 78               |  |  |  |  |  |

#### NO SEPARATION BETWEEN USES REQUIRED PER TABLE 508.4

### **EXIT ARRANGEMENT**

REFERENCE IBC SECTION 1015 & 1021

A MINIMUM OF TWO EXITS WILL BE PROVIDED WHERE EVER THE OCCUPANT LOAD IS GREATER THAN 49 PERSONS IN B

PRINT AREA 1 EXIT REQUIRED 2 EXITS PROVIDED

WHERE EVER TWO EXITS ARE REQUIRED FROM ANY PORTION OF THE BUILDING, THE EXITS WILL BE LOCATED A SPACE.

### **EGRESS COMPONENTS**

#### **EXIT SIGNS:**

1. EXITS AND EXIT ACCESS DOORS WILL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. EXIT SIGN PLACEMENT WILL BE SUCH THAT NO POINT IN A CORRIDOR IS MORE THAN 100 FEET, OR THE LISTED VIEWING DISTANCE FRO THE SIGN, WHICH EVER IS LESS FROM THE NEAREST VISIBLE EXIT SIGN.

2. EXIT SIGN LETTERS TO BE NOT LESS THAN 2" WIDE X 6" HIGH (EXCEPT LETTER I). AND THE MINIMUM SPACING BETWEEN THE LETTERS WILL NOT BE LESS THAN (3/4) INCHES. IBC FIGURE 1011.6.1

4. EXIT SIGN LETTERS TO BE IN HIGH CONTRAST WITH THE BACKGROUND AND CLEARLY DISCERNABLE WHEN THE MEANS OF EGRESS ILLUMINATION IS OR IS

5. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN WILL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM AN ONSITE GENERATOR.

1. MINIMUM CLEAR WIDTH SHALL BE .2 INCHES PER OCCUPANT SERVED. MINIMUM CLEAR WIDTH SHALL BE REDUCED TO .15 INCHES PER OCCUPANT SERVED IN BUILDING EQUIPPED THROUGHOUT AUTOMATIC SPRINKLER SYSTEM & EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM, BUT NOT LESS THAN 32 INCHES. IBC, SECTION 1005.3.2 AND TABLE 1008.1.1

2. MINIMUM HEIGHT SHALL BE 80 INCHES. IBC, SECT 1008.1.1

3. MAXIMUM WIDTH OF SWINGING DOOR LEAF IS 48 INCHES. IBC, SECT 1008.1.1

4. DOORS WILL BE SIDE HINGED SWINGING TYPE, AND WILL SWING IN THE DIRECTION OF TRAVEL WHERE THE AREA SERVED HAS AN OCCUPANT OF 50 OR MORE. IBC SECT 1008.1.2

5. DOORS WILL BE SET IN MOTION WHEN SUBJECTED TO A 30 POUND FORCE, AND SWING TO THE FULLY OPEN POSITION WHEN SUBJECTED TO A 15 POUND FORCE. IBC, TABLE 1008.1.3

6. DOORS WILL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL EFFORT.

1. MINIMUM CLEAR WIDTH SHALL BE .15 INCHES PER OCCUPANT SERVED IN BUILDING EQUIPPED THROUGHOUT AUTOMATIC SPRINKLER SYSTEM & EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM, BUT NOT LESS THAN 44

2. MIN CLEAR WIDTH WITH AN OCCUPANT CAP OF 50 OR LESS IS 36 INCHES. IBC

3. THE MAXIMUM LENGTH OF DEAD-END CORRIDORS IS 50 FEET FOR GROUP B, M, S, & R-2 AND 20 FEET FOR ALL OTHER OCCUPANCIES. IBC, SECTION 1018.4

1. EGRESS FROM A ROOM OR SPACE MAY NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS ARE ACCESSORY TO THE AREA SERVED. NOT A HIGH-HAZARD OCCUPANCY, AND PROVIDE A DISCERNABLE PATH OF EGRESS TRAVEL TO AN

2. EGRESS MAY NOT PASS THROUGH STORAGE ROOMS, CLOSETS, OR SPACES USED FOR SIMILAR PURPOSES.

3. EXIT ACCESS MAY NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS. IBC, SECTION 1014.2

# **CODE DATA**

INCHES. IBC, SECT 1005.3.2 & 1018.2

2018 CITY OF PHOENIX BUILDING CONSTRUCTION CODE INCLUDING THE

2018 IBC (INTERNATIONAL BUILDING CODE) 2018 IECC (INTERNATIONAL ENERGY CONSERVATION CODE) 2018 IFC (INTERNATIONAL FIRE CODE) 2017 NEC (NATIONAL ELECTRIC CODE) 2018 IMC (INTERNATIONAL MECHANICAL CODE) 2018 IPC (INTERNATIONAL PLUMBING CODE 2018 UPC (UNIFORM PLUMBING CODE)

ACCESSIBILITY: CHAPTER 11 OF THE IBC 2009 ANSI A117.1, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

VARIOUS NFPA CODES AND STANDARDS AS REFERENCED BY CODES LISTED ABOVE

### FIRE EXTINGUISHERS

PER IBC TABLE SECTION 906 PROVIDE 2-A RATED EXTINGUISHERS. MAX TRAVEL DISTANCE TO EXTINGUISHER 75'-0". MAXIMUM FLOOR AREA PER UNIT OF "A"

**EXIT SIGN** 

### **ZONING DATA**

PARCELS: 127-25-120-J & 127-25-122 ZONING: C-1

ADDRESS: 3743 E. INDIAN SCHOOL ROAD, PHOENIX, AZ 85018

### **CONSTRUCTION TYPE**

TYPE VB - SPRINKLERED (UNDER SEPARATE PERMIT) OCCUPANCY CLASSIFICATION B, M 2018 IECC CLIMATE ZONE - 2B

### **BUILDING LIMITATIONS**

REFERENCE IBC TABLE 504.3, SECTION 504.4, AND SECTION 506.2 GROUP TYPE 5B HEIGHT 2 / 27,000 3 / 27,000 UL/UL

AREA

MAX HEIGHT 60' THE PROPOSED BUILDING IS A SINGLE STORY

### OCCUPANCY CLASSIFICATION

REFERENCE IBC TABLE 1004.1.2

| AREA OF USE   | <u>OCCUPANCY</u>  | LOAD FAC  |
|---|---|---|
| PARKING GARAGE STORAGE MECH/ELEC BUSINESS MERCANTILE SWIMMING POOL SWIMMING POOL DECK RESIDENTIAL UNIT RES. BALCONY/PATIO CIRCULATION SPACE ASSEMBLY (UNCONCENTRATED) | S-2<br>S-1<br>S-1<br><b>B</b><br><b>M</b><br>A-3<br>A-3<br>R-2<br>R-2<br>N/A<br>A-3 | 200 GRO<br>300 GRO<br>300 GRO<br><b>100 GRO</b><br><b>30 GROS</b><br>50 GROS<br>200 GRO<br>200 GRO<br>100 GRO<br>15 NET |
| ASSEMBLY (CONCENTRATED)   | A-3   | 7 NET   |

### FIRE RESISTANCE RATING

| BUILDING ELEMENT  |      | TYPE 5B  |  |
|---|------|--|--|
| STRUCTURAL FRAME EXTERIOR NON-BEARING WALLS INTERIOR NON-BEARING WALLS EXTERIOR BEARING WALLS INTERIOR BEARING WALLS FLOOR CONSTRUCTION ROOF CONSTRUCTION | X<5' | 0 HR<br>2 HR (M)<br>0 HR<br>0 HR<br>0 HR<br>0 HR<br>0 HR | TABLE 60<br>TABLE 60<br>TABLE 60<br>TABLE 60<br>TABLE 60 |
|   |      |  |  |

### SAFETY GLAZING

| GLAZING LOCATION         | MINIMUM CATEGO<br>9 SF OR LESS | DRY CLASSIFICATIO<br>MORE THAN 9 S |
|--------------------------|--------------------------------|------------------------------------|
| FRAMED SWING DOORS       | I                              | II                                 |
| UNFRAMED SWING DOORS     | 1                              | II                                 |
| TUB AND SHOWER ENCLOSURE | NR                             | II                                 |
| ADJACENT TO DOORS        | 1                              | II                                 |
| INDIVIDUAL PANELS        | II                             | II                                 |
| ADJACENT WALKING SURFACE | NR                             | II                                 |

SAFETY GLAZING WILL NOT BE PROVIDED WHERE ALLOWED BY IBC 2406.3

### EXIT TRAVEL DISTANCE

**MAXIMUM EXIT ACCESS TRAVEL DISTANCE** IBC, TABLE 1016.2 250 FEE1 300 FEET GROUP B

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE IBC, TABLE 1014.3 **GROUP B** 100 FEET

DISTANCES REFLECT THE PRESENCE OF AUTOMATIC SPRINKLER SYSTEM

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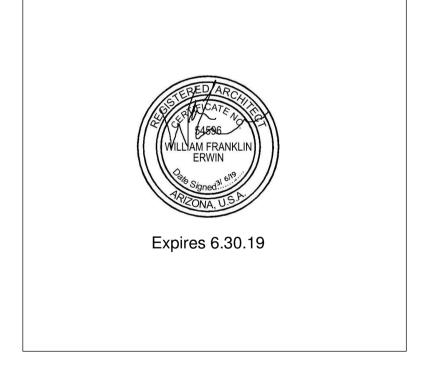
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LANDSCAPE NORRIS DESIGN JOEL THOMAS

(E) JTHOMAS@NORRIS-DESIGN.COM (P) 512.900.7888

### SHEET ISSUE/REV:

| NO. | DESCRIPTION     | DATE     |
|-----|-----------------|----------|
| -   | PRE-APP MTG     | 10.10.18 |
| -   | MINOR SITE PLAN | 01.09.19 |
| -   | CITY SUBMITTAL  | 03.06.19 |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |



JONATHAN PITT Owner WANDERIST OFFICE & RETAIL Proj. Name

### **CODE DATA & EGRESS** PLAN

03/06/19 Date

A001

KIVA #18-1372

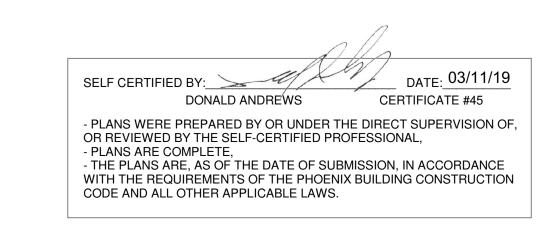
PRLC

QS Q16-36

SDEV #1800276

PAPP #1806619

As indicated Scale



TRAVEL DISTANCE = 49'-0"

14 OCCUPANTS **OFFICE & STOCK ROOM** 

MAX 10% OF GROSS AREA FOR STORAGE AS

ACCESSORY OCCUPANCY

OWNER SUPERLUXE SCREEN PRINTING

RETAINS OWNERSHIP OF ALL DRAWINGS.

CONTACTS:

PLANS, DRAWINGS, AND NOTES.

ARCHITECT
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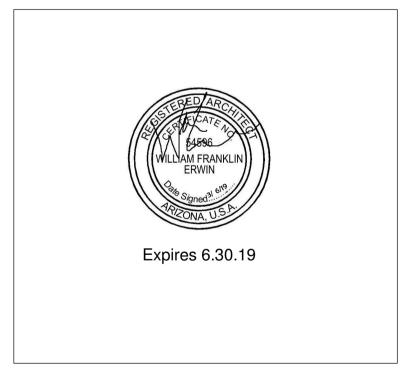
STRUCTURAL
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| -   | PRE-APP MTG     | 10.10.18 |
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|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |



JONATHAN PITT Owner Proj. Name WANDERIST OFFICE & RETAIL

**ENVELOPE COMCHECK** 

03/06/19

A002

Scale

KIVA #18-1372

SDEV #1800276

PAPP #1806619

PRLC

QS Q16-36

COMcheck Software Version 4.1.1.0

#### **Project Information**

Energy Code: 2018 IECC Project Title: Wanderist Office & Retail Location: Phoenix, Arizona Climate Zone: Project Type: New Construction Vertical Glazing / Wall Area: 29% Skylight / Roof Area 0%

Construction Site: Owner/Agent: 3743 E. Indian School Road Jonathan Pitt Phoenix, AZ 85018 Superluxe Screen Printing 3007 N 73Rd St Ste. E Scottsdale, AZ 85251

William Erwin Erwin Architecture & Development, 5911 W. Park Ave Chandler, AZ 85226 602.677.8372 will@erwinarchitecture.com

Designer/Contractor:

Page 1 of 11

Additional Efficiency Package(s)

Data filename: C:\Users\stocci\Desktop\Wanderist.cck

Enhanced Envelope Performance

**Building Area** Floor Area 1-Retail with office, print area, and support space (Retail): 3744 Nonresidential

#### **Envelope Assemblies**

| Assembly   | Gross Area<br>or<br>Perimeter | Cavity<br>R-Value | Cont.<br>R-Value | Proposed<br>U-Factor | Budget U-<br>Factor <sub>(a)</sub> |
|--|-------------------------------|-------------------|------------------|----------------------|------------------------------------|
| oof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Retail with office, int area, and support space]  | 3744                          | 28.0              | 10.0             | 0.026                | 0.027                              |
| sylight 1: Metal Frame with Thermal Break:Glass, With Curb, Perf.<br>becs.: Product ID 3762, SHGC 0.35, [Bldg. Use 1 - Retail with office,<br>int area, and support space] (c) | 5                             | ***               | ***              | 0.650                | 0.650                              |
| por 1: Slab-On-Grade:Unheated, [Bldg. Use 1 - Retail with office, print ea, and support space] (d)   | 265                           | 755               |                  | 0.730                | 0.730                              |
| ORTH<br>terior Wall 5: Wood-Framed, 24" o .c., [Bldg. Use 1 - Retail with<br>fice, print area, and support space]  | 980                           | 20.0              | 0.0              | 0.062                | 0.064                              |
| ndow 4: Other Window:Fixed, Perf. Specs.: Product ID NA, SHGC<br>25, [Bldg. Use 1 - Retail with office, print area, and support space] (c)                                     | 673                           |                   | ****             | 0.180                | 0.500                              |
| indow 5: Other Window:Fixed, Perf. Specs.: Product ID NA, SHGC<br>33, PF 0.38, [Bldg. Use 1 - Retail with office, print area, and support<br>ace] (c)                          | 96                            | 222               |                  | 0.500                | 0.500                              |
| oor 4: Glass (> 50% glazing):Nonmetal Frame, Entrance Door, Perf. eecs.: Product ID NA, SHGC 0.37, PF 0.38, [Bldg. Use 1 - Retail with ice, print area, and support space] (c) | 99                            | ***               | ***              | 0.830                | 0.830                              |
| ST<br>kterior Wall 1: Wood-Framed, 24" o .c., [Bldg. Use 1 - Retail with   | 1007                          | 20.0              | 0.0              | 0.062                | 0.064                              |
| oject Title: Wanderist Office & Retail   |                               |                   |                  | Report d             | ate: 03/04/1                       |

Perimeter office, print area, and support space] Window 1: Other Window:Fixed, Perf. Specs.: Product ID NA, SHGC 0.180 0.500 275 0.25, [Bldg. Use 1 - Retail with office, print area, and support space] (c) Window 3: Metal Frame:Operable, Perf. Specs.: Product ID NA, SHGC 0.650 0.650 0.25, [Bldg. Use 1 - Retail with office, print area, and support space] (c) Exterior Wall 1 copy 1: Wood-Framed, 24" o .c., [Bldg. Use 1 - Retail 0.062 with office, print area, and support space] Window 2: Metal Frame:Operable, Perf. Specs.: Product ID NA, SHGC 0.650 0.25. [Bldg. Use 1 - Retail with office, print area, and support space] (c) Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Retail with office, print 0.610 area, and support space] Door 2: Insulated Metal, Garage door 14% glazing, [Bldg. Use 1 - Retail 0.310 0.310 with office, print area, and support space] WEST
Exterior Wall 3: Wood-Framed, 16" o.c., [Bldg. Use 1 - Retail with office, 0.064 0.064 20.0 print area, and support space] Exterior Wall 4: Wood-Framed, 24" o .c., [Bldg. Use 1 - Retail with 0.062 0.064 office, print area, and support space] Door 3: Insulated Metal, Swinging, [Bldg. Use 1 - Retail with office, print 0.610 area, and support space] (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements. (b) 'Other' components require supporting documentation for proposed U-factors.

Gross Area Cavity Cont. Proposed Budget U-

R-Value R-Value U-Factor Factor(a)

Report date: 03/04/19

Page 2 of 11

(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation. (d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

velope PASSES: Design 12% better than code

**Envelope Compliance Statement** 

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

William Erwin, President Name - Title

Project Title: Wanderist Office & Retail Data filename: C:\Users\stocci\Desktop\Wanderist.cck

SELF CERTIFIED BY: DATE:03/06/2019 DONALD ANDREWS CERTIFICATE #45 - PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL, - PLANS ARE COMPLETE, - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION CODE AND ALL OTHER APPLICABLE LAWS.

City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

(SEE LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION OF ALL FIXTURES.)

NIGHTLIGHT (NL) AND/OR EMERGENCY FIXTURE (EM). SEE PLAN FOR DESIGNATION.

FLUORESCENT ÉMERGÉNCY FIXTURES SHALL BE FÜRNISHED W/2-LAMP EMERGENCY

DUAL HEAD EMERGENCY LIGHT FIXTURE WITH 90 MINUTE BATTERY PACK. AIM AS

CEILING MOUNTED EMERGENCY EXIT SIGN. ARROWS INDICATE PATH OF EGRESS.

WALL MOUNTED EMERGENCY EXIT SIGN. ARROWS INDICATE PATH OF EGRESS.

SINGLE-POLE TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.

TWO-POLE TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.

THREE-WAY TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.

FOUR-WAY TOGGLE SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.

OCCUPANCY SENSOR SWITCH MOUNTED +48" AFF TO TOP OF BOX OR AS NOTED.

ASTRONOMIC TIMESWITCH. 3PST, 40 AMP, 120 VOLT UNLESS NOTED OTHERWISE.

DUPLEX CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO BOTTOM OF BOX OR

DOUBLE DUPLEX (FOURPLEX) CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO

SINGLE CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO BOTTOM OF BOX OR

HALF-SWITCHED DUPLEX CONVENIENCE RECEPTACLE MOUNTED AT +15" AFF TO

BOTTOM OF BOX OR AS NOTED. COMPUTER DUPLEX RECEPTACLE AT 15" AFF TO

PHOTOCELL MOUNTED ON ROOF. AIM NORTH. 'TORK' #2101 OR EQUAL.

DUPLEX CONVENIENCE RECEPTACLE MOUNTED ABOVE COUNTERTOP. SEE

BOTTOM OR AS NOTED. PROVIDE 'GRAY' OUTLET BODY WITH STANDARD

ARCHITECT'S INTERIOR ELEVATION FOR EXACT MOUNTING HEIGHT.

SWITCHED BY "11/16" AND OUTER LAMPS TO BE SWITCHED BY "b". INCANDESCENT OR

MULTI-LEVEL SWITCHING. INNER LAMPS OF FLUORESCENT FIXTURES TO BE

SINGLE BALLAST FIXTURES TO BE SWITCHED AS INDICATED ON DRAWINGS.

SLIDE CONTROL DIMMER AT +48" AFF TO TOP OF BOX (1500 WATT OR AS

FLUORESCENT TROFFER FIXTURE

FLUORESCENT STRIP FIXTURE.

FLUORESCENT WRAPAROUND FIXTURE.

BALLAST & 90 MINUTE BATTERIES.

WALL MOUNTED FLUORESCENT LIGHT FIXTURE.

TRACK HEAD OR FLOODLIGHT FIXTURE.

DIRECTED BY CITY INSPECTOR.

SHADED AREA INDICATES FACE.

SHADED AREA INDICATES FACE.

NOTED ON PLANS).

AS NOTED.

BOTTOM OF BOX OR AS NOTED.

CEILING MOUNTED OR RECESSED DOWNLIGHT FIXTURE.

RECESSED WALL WASH FIXTURE. AIM AS DIRECTED BY THE ARCHITECT.

WALL MOUNTED LIGHT FIXTURE.

LIGHTING TRACK.

DEVICES

|          | LIGHT FIXTURE SCHEDULE   |         |  |   |   |   |  |  |  |  |
|----------|--|---------|--|---|---|---|--|--|--|--|
| MARK     | MANUFACTURER<br>MODEL NUMBER   | VOLTAGE | LAMP TYPE                                  | MOUNTING                                | DESCRIPTIONS  | REMARKS   |  |  |  |  |
| Α        | FLUXWERX ILLUMINATION INC<br>APC R D D 35 B XX S E1 M XX                   | 120     | 35W LED (PER 4-FT)<br>6595 LUMENS<br>3500K | SURFACE AT<br>UNDERSIDE OF<br>STRUCTURE | LED LINEAR DIRECT/INDIRECT<br>RUNS (RUN LENGTHS PER PLAN)                         | _   |  |  |  |  |
| В        | LITHONIA LIGHTING<br>LDN6 CYL 35/15 LO6AR LSS PM                           | 120     | 21W LED<br>1526 LUMENS<br>3500K            | STEM AT 9'-0"                           | 6-IN DOWNLIGHT CYLINDER WITH<br>CLEAR SEMI-SPECULAR REFLECTOR                     | -   |  |  |  |  |
| С        | LITHONIA LIGHTING<br>CLX L48 4000LM SEF RDL<br>MVOLT GZ10 35K 80CRI        | 120     | 28W LED<br>6595 LUMENS<br>3500K            | SURFACE AT<br>UNDERSIDE OF<br>STRUCTURE | STRIP LIGHT WITH ROUND DIFFUSE LENS   | PROVIDE 10W EMERGENCY BATTERY BACKUP WHERE DESIGNATED "EM"                              |  |  |  |  |
| D-DMX    | LUMINII<br>DMX 3Z RGBW   | 24      | _  | 2-GANG BOX                              | 'RGB' WIRELESS CONTROLLER   | _   |  |  |  |  |
| D1       | LUMINII<br>LLX18-RGB 6'8" /PSV 40 24V<br>U2ND/ DDMX-RGBW                   | 24      | 30W RGB LED                                | SURFACE                                 | 'RGB' ACCENT TAPE LIGHT. APPROXIMATELY 6'-8" IN LENGTH                            | PROVIDE ALL COMPONENTS FOR COMPLETE WORKING SYSTEM. VERIFY LENGTH.                      |  |  |  |  |
| D2       | LUMINII<br>LLX18-RGB 25' /PSV 96 24V<br>U2ND/ DDMX-RGBW                    | 24      | 83W RGB LED                                | SURFACE                                 | 'RGB' ACCENT TAPE LIGHT. APPROXIMATELY 25'-0" IN LENGTH                           | PROVIDE ALL COMPONENTS FOR COMPLETE WORKING SYSTEM. VERIFY LENGTH.                      |  |  |  |  |
| D3       | LUMINII<br>LLX18-RGB 30' / 90' TURN/PSV<br>96 24V U2ND/ DDMX-RGBW          | 24      | 90W RGB LED                                | SURFACE                                 | 'RGB' ACCENT TAPE LIGHT. APPROXIMATELY 30'-0" IN LENGTH                           | PROVIDE ALL COMPONENTS FOR COMPLETE WORKING SYSTEM. VERIFY LENGTH.                      |  |  |  |  |
| S1A      | LITHONIA LIGHTING<br>DSXB LED 16C 530 40K SYM                              | 120     | 28W LED<br>2397 LUMENS<br>4000K            | GROUND                                  | PARKING LOT BOLLARD LIGHT. WET LOCATION LISTED.                                   | FULL CUTOFF   |  |  |  |  |
| S1B      | LITHONIA LIGHTING<br>DSXB LED 12C 530 40K ASY                              | 120     | 22W LED<br>1847 LUMENS<br>4000K            | GROUND                                  | PARKING LOT BOLLARD LIGHT. WET LOCATION LISTED.                                   | FULL CUTOFF   |  |  |  |  |
| S2       | LITHONIA LIGHTING<br>CLX L48 3000LM SEF FDL<br>MVOLT GZ10 40K 80CRI        | 120     | 13W LED<br>998LUMENS<br>4000K              | RECESSED                                | ENTRY PORTAL STRIPLIGHT WITH FLAT LENS. DAMP LOCATION LISTED.                     | LED'S TO BE FIELD INSTALLED AFTER CHANNEL HAS BEEN MOUNTED TO ENTRY PORTAL. NO UPLIGHT. |  |  |  |  |
| S2E      | LITHONIA LIGHTING<br>CLX L48 3000LM SEF FDL<br>MVOLT GZ10 40K 80CRI PS1050 | 120     | 13W LED<br>998LUMENS<br>4000K              | RECESSED                                | ENTRY PORTAL STRIPLIGHT WITH EMERGENCY BATTERY BACKUP. DAMP LOCATION LISTED.      | LED'S TO BE FIELD INSTALLED AFTER CHANNEL HAS BEEN MOUNTED TO ENTRY PORTAL. NO UPLIGHT. |  |  |  |  |
| S3       | LITHONIA LIGHTING<br>DSXW1 LED 10C 1000 40K TFTM MVOLT                     | 120     | 39W LED<br>3945 LUMENS<br>4000K            | WALL @ 10'-0"                           | PARKING LOT LIGHT. WET LOCATION LISTED.   | FULL CUTOFF   |  |  |  |  |
| S4E      | LITHONIA LIGHTING<br>WST LED P2 40K VW MVOLT E7WH                          | 120     | 25W LED<br>3276LUMENS<br>4000K             | WALL @ 10'-0"                           | EXTERIOR ARCHITECTURAL SCONCE WITH EMERGENCY BATTERY BACKUP. WET LOCATION LISTED. | FULL CUTOFF   |  |  |  |  |
| S5E      | LITHONIA LIGHTING<br>WST LED P1 40K VF MVOLT E7WH                          | 120     | 12W LED<br>1639 LUMENS<br>4000K            | WALL ❷ 10'-0"                           | EXTERIOR ARCHITECTURAL SCONCE WITH EMERGENCY BATTERY BACKUP. WET LOCATION LISTED. | FULL CUTOFF   |  |  |  |  |
| -        | _  | _       | _  | -                                       | _   | -   |  |  |  |  |
| ₩        | LITHONIA LIGHTING<br>EU2C SD   | 120     | FURNISHED WITH FIXTURE                     | WALL                                    | EMERGENCY LIGHTING UNIT   | WITH SELF DIAGNOSTICS   |  |  |  |  |
| <b>Ø</b> | LITHONIA LIGHTING<br>LQC 1 G EL N ELA B US36                               | 120     | FURNISHED WITH FIXTURE                     | 36" STEM                                | EXIT SIGN WITH EMERGENCY BATTERY BACKUP — GREEN LETTERS                           | MOUNT STEM TO BOTTOM OF STRUCTURE   |  |  |  |  |

- MANUFACTURER AND MODEL NUMBERS LISTED IN THIS SCHEDULE ARE FOR THE PURPOSE OF ESTABLISHING THE APPEARANCE, QUALITY, AND PERFORMANCE OF THE FIXTURE. SUBSTITUTIONS ARE ACCEPTABLE TO P.A.C.E PROVIDED THE APPEARANCE, QUALITY, AND PERFORMANCE OF THE SUBSTITUTED FIXTURE IS EQUAL TO WHAT IS SPECIFIED. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE ARCHITECT TO BID ALTERNATE FIXTURES PRIOR TO SUBMITTING HIS BIDS. THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY WHEN SUBSTITUTING FIXTURES FOR FURNISHING FIXTURES WHICH PERFORM EQUALLY TO THE FIXTURE SPECIFIED. THE CONTRACTOR SHALL FURNISH COMPUTER GENERATED POINT-BY-POINT CALCULATIONS FOR SUBSTITUTED FIXTURES IF REQUESTED BY THE ARCHITECT OR ENGINEER.
- 2. MODEL NUMBERS LISTED IN THE SCHEDULE MAY NOT INCLUDE ALL COMPONENTS OR OPTIONS FOR A COMPLETE SYSTEM AS SHOWN ON THE LIGHTING PLANS. THE CONTRACTOR AND LIGHT FIXTURE MANUFACTURER SHALL RECEIVE AND REVIEW ALL ELECTRICAL PLANS AND ARCHITECT'S REFLECTIVE CEILING PLANS PRIOR TO SUBMITTING A BID. ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESIGN SHOWN ON THE PLANS SHALL BE SUBMITTED IN WRITING TO THE GENERAL CONTRACTOR DURING THE BID PROCESS FOR RESOLUTION. UNLESS OTHERWISE INDICATED BY RFI DURING THE BIDDING PROCESS THE CONTRACTOR AND LIGHTING MANUFACTURER AGREE THAT THEIR BID INCLUDES ALL NECESSARY COMPONENTS FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
- 3. REFEER TO SHEET E101 FOR COMCHECK COMPLIANCE CERTIFICATES.

| HVAC EQUIPMENT SCHEDULE |                                     |     |     |     |          |         |              |                         |                                   |  |
|-------------------------|-------------------------------------|-----|-----|-----|----------|---------|--------------|-------------------------|-----------------------------------|--|
| UNIT NUMBER             | EQUIPMENT DESCRIPTION               | HP  | KVA | ĸw  | AMPS     | VOLTS/ø | (See Note 1) | (See Note 2)<br>STARTER | (See Notes 3, 4) BRANCH CIRCUIT** |  |
| 1,2                     | SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT | _   | -   | _   | 28.5 MCA | 230/1   | 60A/2P       | -                       | 2#8, 1#10 GND., 3/4"C.            |  |
| - 3                     | SPLIT SYSTEM HEAT PUMP OUTDOOR UNIT | _   | -   | _   | 34.2 MCA | 230/1   | 60A/2P       | -                       | 2#6, 1#10 GND., 1"C.              |  |
| 1,2,3                   | SPLIT SYSTEM HEAT PUMP INDOOR UNIT  | 3/4 | -   | _   | 6.9 FLA  | 230/1   | 30A/2P       | W/UNIT                  | 2#12, 1#12 GND., 1/2"C            |  |
|                         | EXHAUST FAN                         | _   | -   | 77W | <1.0 FLA | 120/1   | \$м          | \$м                     | 2#12, 1#12 GND., 1/2"C            |  |
| <u>-</u>                | _                                   | _   | -   | -   | _        | _       | -            | _                       | _                                 |  |
| <u>-</u>                | _                                   | _   | -   | _   | _        | _       | -            | _                       | -                                 |  |
| 1,2                     | INSTANTANEOUS WATER HEATER          | _   | _   | 3.6 | 40       | 120/1   | 60           | _                       | 2#8, 1#10 GND., 3/4"C.            |  |

- 1. NEMA 3R WHERE OUTSIDE. PROVIDE FUSING PER HVAC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 2. ALL MOTOR STARTERS LOCATED OUTDOORS SHALL BE PROVIDED WITH TEMPERATURE COMPENSATED ELECTRONIC OVERLOADS IN LIEU OF BIMETALLIC OVERLOAD ELEMENTS.
- 3. ALL CONDUCTORS FEEDING HVAC EQUIPMENT SHALL BE COPPER WITH INSULATION RATED FOR 90 DEGREES C.
- 4. WIRE SIZE INDICATED BASED UPON TABLE 310.15(B)(16) NOT DE-RATED. ALL CONDUCTORS SERVING OUTDOOR EQUIPMENT AND/OR ROUTED OUTDOORS, SHALL BE DE-RATED FOR 117-122F (NEC TABLE 310.15(B)(2)(A).

### ELECTRICAL LEGEND

(NOT ALL SYMBOLS MAY BE USED ON THIS PROJECT).

- TELEPHONE OUTLET MOUNTED AT +15" AFF TO BOTTOM OR AS NOTED. STUB 3/4"
- E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE. DATA OUTLET MOUNTED AT +15" AFF TO BOTTOM OR AS NOTED. STUB 3/4" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.
- COMBINATION TELEPHONE AND DATA OUTLET IN COMMON 4-SQUARE BOX AT +15" AFF TO BOTTOM OR AS NOTED. STUB 1" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.
- MULTIPLE DATA OUTLET IN COMMON 4-SQUARE BOX AT +15" AFF TO BOTTOM OR AS NOTED. STUB 1" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED
- OTHERWISE. (NUMBER INDICATES REQUIRED CABLE TACKS) TELEVISION OUTLET MOUNTED AT +15" AFF TO BOTTOM OR AS NOTED STUB 1" E.C. TO ABOVE ACCESSIBLE CEILING, UNLESS NOTED OTHERWISE.

- U.L. LABELLED. HORSEPOWER RATED, MANUAL MOTOR STARTER WITH THERMAL OVERLOAD(S). OVERLOAD HEATERS TO BE SIZED PER NEMA AND EQUIPMENT MANUFACTURER'S
- REQUIREMENTS. SQUARE 'D' TYPE 'M' SERIES OR EQUAL.
- CONTACTOR FURNISHED AND INSTALLED BY OTHERS.
- CONTACTOR FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SIZE AS INDICATED ON DRAWINGS.
- FUSED DISCONNECT SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. SIZE AND FUSES PER RECOMMENDATIONS OF EQUIPMENT MANUFACTURER OR AS NOTED. PROVIDE NEMA 3R ENCLOSURE FOR
- EXTERIOR OR WET LOCATIONS. (N.F. INDICATES NON-FUSED). ELECTRIC MOTOR. SIZE AS INDICATED ON DRAWINGS. **O**
- CIRCUIT BREAKER. SIZE AS INDICATED ON DRAWINGS.
- FUSED SWITCH WITH REJECTION TYPE CLIPS. SIZE AS INDICATED ON DRAWINGS.
  - PULL-OUT STYLE FUSED DISCONNECT SWITCH. SIZE AS INDICATED ON DRAWINGS. DISTRIBUTION PANELBOARD, MOTOR CONTROL CENTER OR SERVICE ENTRANCE SECTION. SEE DRAWINGS FOR EXACT TYPE.
- TRANSFORMER. SEE DRAWINGS FOR TYPE AND SPECIFICATION.
- SURFACE OR FLUSH MOUNTED PANELBOARD. MOUNT TOP OF PANEL AT +6'-6" AFF
- OR AS NOTED. SEE PANELBOARD SCHEDULE. CONTROL CABINET. SEE DRAWING FOR TYPE AND SPECIFICATION.
- PLYWOOD TELEPHONE MOUNTING BOARD WITH #6 COPPER GROUND & DEDICATED DUPLEX CONVENIENCE OUTLET. FURNISH IN ACCORDANCE WITH TELEPHONE

#### WIRE/CONDUIT

FLEXIBLE CONDUIT AT CONNECTIONS TO VIBRATING EQUIPMENT AND TRANSFORMERS. PROVIDE LIQUID-TIGHT FLEX FOR WET OR EXTERIOR LOCATIONS.

COMPANY'S REQUIREMENTS. SIZE AS NOTED ON DRAWINGS. PLYWOOD SHALL BE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILING. 2 #12, 1 #12 NEUT., 1 #12 GRD., 1/2" C., UNLESS NOTED OTHERWISE.
  - CONDUIT ROUTED UNDER FLOOR OR BELOW GRADE. 2 #12, 1 #12 NEUT., 1 #12 GRD., 3/4" C., UNLESS NOTED OTHERWISE.
- CONDUIT TURNING UP.

3/4" TYPE "CDX".

- CONDUIT TURNING DOWN.

  - PHASE CONDUCTORS
- ---- NEUTRAL CONDUCTOR
- SOLATED GROUNDING CONDUCTOR (EQUIPMENT BONDING CONDUCTOR INCLUDED. ISOLATED GROUNDING OUTLET AT +15" TO BOTTOM OR AS NOTED. (ORANGE) BUT NOT SHOWN).
- RECEPTACLE WITH ISOLATED GROUND.
- SPECIAL RECEPTACLE AS NOTED ON DRAWINGS (250 VOLT).
- SPECIAL RECEPTACLE AS NOTED ON DRAWINGS (600 VOLT). JUNCTION BOX IN ACCESSIBLE LOCATION.
- JUNCTION BOX FLUSH MOUNTED IN WALL UNLESS NOTED OTHERWISE.
- FLOOR MOUNTED DEVICE. TYPICAL OF ALL OUTLET SYMBOLS.
- PLUG-MOLD. LENGTH AND TYPE AS NOTED ON DRAWINGS. MOUNT AT +15" AFF TO BOTTOM OR AS NOTED ON THE DRAWINGS.
- POWER POLE. SEE DRAWINGS FOR SPECIFICATIONS.

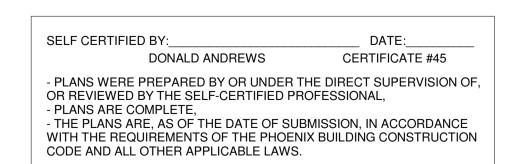
ABOVE FINISHED FLOOR.

ABBREVIATIONS

- ABOVE FINISHED GRADE.
- E.F. EXHAUST FAN
- GROUND FAULT CURCUIT INTERRUPTER.
- GROUND
- **WEATHERPROOF**
- TRANSFORMER.
- EXPLOSION PROOF.

### NATIONAL ELECTRIC CODE - 2017 EDITION

- 1. ALL WORK OF THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE (2017 NEC) AND EFFECTIVE LOCAL AMENDMENTS.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY AWARE OF THE PRESENT REQUIREMENTS OF THE 2017 NEC INCLUDING ALL CHANGES OCCURING IN BOTH THE 2014 NEC AND THE 2017 NEC.
- 3. IT IS INTENDED ALL CODE REFERENCES THROUGHOUT THESE PLANS REFER TO THE





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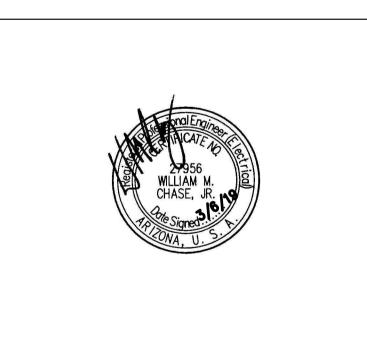
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### SHEET ISSUE/REV:

| NO. | DESCRIPTION     | DATE     |
|-----|-----------------|----------|
| -   | PRE-APP MTG     | 10.10.18 |
| -   | MINOR SITE PLAN | 01.09.19 |
| -   | CITY SUBMITTAL  | 03.06.19 |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |
|     |                 |          |



JONATHAN PITT Owner WANDERIST OFFICE & RETAIL Proi. Nam

> ELECTRICAL LEGEND AND SCHEDULES

03/06/19 Date

Scale

**AS SHOWN** 

B. Wire Markers

1. Description: Tape wire markers.

load connection

2.09 UTILITY SERVICE ENTRANCE

2.10MAIN SWITCHBOARD

General Electric

standard finish.

A. Match Distribution Equipment.

2.11 ENCLOSED SWITCHES

2.12PANELBOARDS

be used.

2.13ENCLOSED MOTOR CONTROLLERS

toggle operator.

application.

C. Automatic Controllers

be utilized:

2.14LIGHTING FIXTURES

PART 3 EXECUTION

3.01 WORK SEQUENCE

C. Emergency Lighting Units

steel housing.

battery supply.

General Electric

B. Manual Controllers

6

7

1.01 SCOPE OF WORK

A. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complimentary, and what is required by one shall be as binding as if required by all. The Performance by the Contractor shall be required only to the extent consistent with the Contract Documents as reasonably inferable from them as necessary to produce the intended results.

1. Contractor shall provide all labor, materials, equipment and services necessary to furnish and install complete electrical systems and related items of work as indicated on Drawings or specified herein.

2. The Contractor shall refer to all project drawings and specifications prior to submission of bid and include monies to provide a complete and functioning system. Reference drawings include, but are not necessarily limited to, Civil, Architectural, Structural, Mechanical, Plumbing and Fire Protection.

3. Description of Systems: The work includes but is not limited to: a. Panels, conduit, wiring, etc., for all outlets and equipment.

b. Electrical service as indicated.

c. Lighting fixtures with lamps. d. Excavation and backfill as required.

e. Telephone outlets, mounting board, conduits with pull wire, etc.

f. Provide temporary electrical service including service panel and related g. Motors and Controls: Refer to all project drawings for coordination of

h. Factory—finished painting of material and equipment furnished under this

i. Specialty systems as indicated on Drawings.

4. Drawings are diagrammatic. Refer to Civil, Mechanical, Plumbing, Fire Protection, Architectural and Structural Drawings and specifications for information on equipment furnished and installed by others which may conflict with rough—in or equipment locations. Coordinate Electrical system components with all other Disciplines' Work. No adjustment in contract price will be made for failure to review or coordinate work prior to fabrication and/or installation.

5. Inconsistencies. In the case of any inconsistency between drawings and specifications or within either document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Engineer's interpretation.

1.02 INSPECTION AND TESTS

A. Furnish Architect with certificate of inspection and approval by local authorities and required test reports prior to final acceptance of the project by the Architect. All work must be inspected and tested per local code requirements. B. Owner is responsible for Utility Company charges.

1.03 REFERENCES AND REGULATORY REQUIREMENTS

A. Conform to current local building code. B. Workmanship and material of electrical work shall comply with or exceed applicable provisions of the following (most recent additions including addenda

and errata): 1. All Local Codes and Ordinances

2. National Electrical Code (NEC) (NFPA 70)

3. National Electrical Manufacturers Association (NEMA) 4. National Electrical Contractors Association (NECA)

a. Standards of Installation

5. Underwriters Laboratories (U.L.) 6. Americans with Disabilities Act (ADA)

1.04 PROJECT COORDINATION

A. All Contractors shall be responsible for coordinating Work with other trades and for cutting and re—finishing of existing walls, floors, solid and suspended ceilings, etc., where required by Work shown and noted herein. Install all Work to clear new and existing architectural and structural members. Items such as conduit, fittings, etc., shall not be installed in conflict with equipment. Coordinate all cutting and patching with the General Contractor. Subcontractor shall be responsible for all cutting and patching of his Work. Obtain written permission of Architect before proceeding with any cutting or patching of

B. The Owner shall be notified in writing prior to any trenching requiring a utility shutdown. Any services interrupted by trenching, excavating or floor cutting shall be repaired by the Contractor with no additional cost to the Owner. Existing underground services not specifically indicated on the drawings to be relocated, which interfere with building components, shall be brought to the Architect/Engineer's immediate attention. Prepare drawings showing proposed re-routing, area(s) affected, and length of interruption(s).

C. Connections to Existing Services 1. All connections to existing electrical systems, and any existing equipment and services shall be made only at the times specified and approved by the Owner and/or Architect.

1.05 FIELD VERIFICATION

A. The Contractor shall visit the job site and familiarize himself with all existing conditions which may affect his bid. No allowances will be made after the bid for existing conditions or the Contractor's failure to verify existing conditions. 1. The Contractor shall employ an independent locating service to locate and verify all existing underground services or in—floor conduits, whether specifically shown on the drawings or not. Location of underground services or in—slab or underfloor conduits shall be noted on record documents. No trenching, excavation or floor cutting shall commence until all utility

locations are verified. B. The following items shall be verified:

1. Exact placement, size, capacity, manufacturer and condition of all existing electrical equipment within the scope of work whether specifically shown on the drawings or not

2. Location and condition of all existing lighting systems. 3. Location and condition of all existing life safety systems.

C. Any discrepancies which may affect the Contractors bid shall be brought to the attention of the Engineer and Architect for direction.

1.06 SUBMITTALS A. See Architectural Administrative Requirements, for submittal procedures.

B. Required Submittal List:

1. Utility Service Entrance.

2. Enclosed Switches. 3. Panelboards.

4. Interior Luminaires.

5. Site Lighting luminaires and poles.

C. Project Record Documents: Provide two (2) sets of Record Documents and two (2) bound sets of all operation and maintenance manuals, diagrams, service contracts, guarantees, etc. for Owner's use. Record actual locations of all electrical equipment and incorporate into the Record Documents to show the final "Installed" conditions.

D. Submit only those manufacturers listed on the drawings or in the specific

section unless prior approval was obtained. E. Submit shop drawings and product data grouped to include complete submittals of related systems, products, and accessories in a single submittal. Partial submittals will not be reviewed

F. When overcurrent protective devices in a panelboard are indicated on the electrical drawings as comprising of part of a series rated combination, a manufacturer's current published series rated combination listing shall be included with the submittals.

G. Mark dimensions and values in units to match those specified. H. Clearly identify specific items on multi-item catalog sheets. I. The Installing Contractor shall review all submittals for compliance with plans

and specifications. The contractor shall stamp each item in the submittal indicating that the review process has been completed. J. Any discrepancies in the submittals from the requirements of the plans and specifications shall be noted by the Installing Contractor. If major discrepancies, errors, or product omissions are found, the Installing Contractor shall correct the submittals before forwarding for review by the Engineer.

1.07 REQUEST FOR INFORMATION A. Requests for information are to be submitted to the Architect/Engineer by the General Contractor.

B. Sufficient back—up information shall be included to describe the situation. Where possible, a suggested solution shall be included to facilitate response

1.08 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience. B. Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

1.09 REGULATORY REQUIREMENTS A. All materials, equipment and installation must comply with all applicable laws, codes, rules, and regulations, required by City, County and State, as well as Federal requirements.

A. Contractor shall guarantee all materials, equipment and workmanship from defect and shall replace or repair, without additional cost to the Owner, all defective material, equipment and workmanship for a period of one year after Date of Substantial Completion.

B. Submit manufacturers' warranty and ensure that forms have been completed in Owner's name and registered with manufacturer. 1.11 MAINTENANCE MATERIALS

A. Provide one fuse puller.

1.12 EXTRA MATERIALS A. Provide three spare fuses of each size and type fuse installed. PART 2 PRODUCTS

2.01 APPROVED MANUFACTURERS A. Manufacturers as indicated in these documents are approved for use in this

project under the terms and conditions shown on the plans and in these specifications. Deviations from the plans and specifications will not be allowed. B. Substitutions of materials or products shown herein shall be at the Owner's, Architect's or Engineer's written approval only and must be made in accordance with the Architect's requirements.

A. Minimum Sizes:

1. Above slab: 1/2 inch unless otherwise noted.

2. Below slab: 3/4 inch unless otherwise noted. 3. Site underground: 1 inch unless otherwise noted.

1. Underground locations:

a. Underground or under slab—on—grade: Use plastic coated rigid steel conduit or Schedule 40 nonmetallic conduit b. All vertical underground elbows shall be plastic coated rigid steel conduit. c. Flexible cable shall not be used in underground applications.

a. Watertight flexible cable is permitted subject to National Electrical Code Provisions.

2. Indoor wet and damp locations: Use rigid steel conduit or electrical metallic

3. Indoor dry locations:

a. Concealed: Use rigid steel conduit, electrical metallic tubing, or type MC b. Exposed (Unfinished Areas): Use rigid steel to 8 feet above flush floor or to first junction box. Electrical metallic tubing may be used beyond

4. Outdoor Locations above grade: Use rigid steel or electrical metallic tubing. a. Liquid—tite cable is permitted subject to National Electrical Code

5. Conduits shall not be installed in floor slabs. 6. Exposed conduit floor penetrations from slabs on grade shall be plastic coated or wrapped (10 mil tape with 1/2 lap) galvanized rigid steel or

intermediate metal conduit. 7. Concealed floor penetrations from slabs on grade in a finished wall or chase may be Schedule 40 non-metallic conduit. Extend nonmetallic conduit to negrest junction box

8. Rigid steel conduit wrapped with 10 mil PVC tape 1/2 lapped is acceptable in lieu of plastic coated

9. Intermediate metal conduit is acceptable in lieu of rigid steel conduit. 10. A green equipment grounding conductor shall be run inside all raceways. 11. Liquid tight flexible conduit used outdoors shall be U.L. listed for sunlight resistance.

C. Manufacturers: 1. Rigid Steel, Intermediate Metal Conduit, and Electrical Metallic Tubing:

a. Allied Tube and Conduit, AFC, Hubbell 2. PVC coating for rigid steel conduit: a. Occidental Coating, P.C.D., Robroy Industries

3. Flexible metal conduit and liquid tight flexible metal conduit a. Acme International, Electri-Flex, Hubbell

4. Nonmetallic conduit a. Carlon, RACO, Can-Tex 2.03 BUILDING WIRE AND METALCLAD CABLE

A. Manufacturers 1. Okonite, General Cable, Southwire, American Insulated Wire

B. Description 1. Building wire: Single conductor, 600 volt, XHHW or THHN/THWN insulated copper wire.

2. Metal clad cable: Interlocked steel jacket with 90 degree C., 600 volt, 3. Use conductor not smaller than 12 AWG for power and lighting circuits. Use conductor not smaller than 16 AWG for control circuits.

4. Metalclad cable shall be used for concealed, indoor, dry locations only. A. Luminaire and Equipment Supporting Boxes: Rated for weight of equipment

supported; include 1/2 inch male fixture studs where required. B. Cast Boxes: Cast aluminum with gasketed cover.

C. Floor Boxes: Fully adjustable. D. In-Ground Cast Metal Box: Galvanized cast iron Type 6, flanged with neoprene

gasket and flush, nonskid cover with stainless steel screws. Provide with "ELECTRIC" cover legend. 2.05 ENCLOSURES AND CABINETS

A. Enclosure construction: NEMA Type 1 or 3R galvanized steel with hinged cover as required by application. Other types may be required as noted on drawings. B. Provide interior panel of 3/4" plywood for mounting terminal blocks and electrical components. Finish with white enamel.

C. Recessed backboxes may be galvanized steel. Box Size: As indicated on Drawings. E. Provide metal barriers to separate compartments containing control wiring operating at less than 50 volts from power wiring.

F. Terminal blocks 1. Power Terminals: Unit construction type with closed back and tubular pressure screw connectors, rated 600 volts.

2. Signal and Control Terminals: Modular construction type, suitable for channel mounting, with tubular pressure screw connectors, rated 300 volts. 3. Provide ground bus terminal block, with each connector bonded to

enclosure. G. Telephone Termination Backboards 1. Description: 3/4 inch plywood, size as indicated on Drawings.

A. Manufacturers: Hubbell, Leviton, Pass and Seymour B. Description

1. Wall switches: 120-277 volt, 20 amp general-use snap switch with white rocker handle. Receptacles

a. Standard, White plastic, type 5—20. b. GFCI Receptacle: Convenience receptacle with integral ground fault circuit interrupter and test switch c. Isolated Ground Receptacle: Hubbell #IG5262 or equal.

d. Wall plates 1) Decorative Cover Plate: White, smooth plastic. 2) Surface Mounted Device Cover Plate: Galvanized steel.

3) Weather Proof Cover Plate (Continuous use): Gasketed, top hinged, full plug protection equal to "TAYMAC". 4) Weatherproof Cover Plate (Non-continuous use): Gasketed cast metal

with hinged gasketed device cover. 3. Wall dimmers a. Manufacturers: Lutron, Hunt, Leviton b. Description: Semiconductor dimmer suitable for lamp wattage and type (Incandescent, Low Voltage, Fluorescent, LED) as indicated on Drawings.

c. Device Body: White plastic with slide control and preset. 2.07 GROUNDING AND BONDING A. Rod electrode

1. Manufacturers: Blackburn, Carolina Galvanized, Knight Metalcraft 2. Description: Copper clad steel 3/4 inch x 10 feet.

B. Plate electrode 1. Description: 1/4" x 18" x 18" (minimum) copper plate. C. Mechanical connectors

1. Manufacturers: O - Z Gedney, Thomas and Betts, Kearney - National

2. Material: Bronze. D. Exothermic connections 1. Manufacturers: Cadweld, Thermoweld

E. Wire 1. #4 and Smaller: Solid copper. 2. #3 and Larger: Stranded copper. 2.08 IDENTIFICATION

A. Nameplates 1. Nameplates: Engraved three—layer laminated plastic. 2. Colors: White letters on black background for general identification; white letters on red background for warning or safety applications. Locations:

a. Each electrical distribution and control equipment enclosure (black). b. Communication cabinets (black). c. Equipment disconnect switches (black).

d. Locating concealed building ground connections (red).

e. Electrical equipment room (red).

calculated available fault current at that location.

Identified replacement component required"

A. Meters will be furnished by Utility Company.

panelboards, unless noted otherwise.

or Class J fuses as indicated on drawings.

in ON position. Handle lockable in OFF position.

D. Enclosures: Nema 1 or 3R as shown on drawings.

A. Manufacturers — Match Distribution Equipment.

panelboards, unless noted otherwise.

B. Description: Per utility company requirements.

the surface on which the meter reader stands.

4. Letter Size: a. Use 1/8 inch letters for identifying individual equipment, loads, or circuit

b. Use 1/4 inch letters for identifying grouped equipment and loads.

c. Use 3/8 inch letters for major heading on warning type nameplates.

2. Locations: Each conductor at panelboard terminations, pull boxes, and each

a. Power and Lighting Circuits: Branch circuit or feeder number indicated

b. Control Circuits: Control wire number indicated on shop drawings.

(\_\_\_.) \_\_\_ A Available. Identified Replacement Component Required." The

first blank space is to be permanently marked with the maximum available

1. EXAMPLE: "Caution—Series Rated System.65/10 23K Amps Available.

C. Meter Height: Maximum meter centerline height shall not exceed 6'-3" above

D. Include provisions for padlocking and sealing as required by Utility Company.

B. Description: Deadfront distribution switchboard rated for use as Service

breakers in switchboards 800 amps and larger shall be 100% rated.

short circuit rating shall be 10,000 A.I.C. symmetrical for 240 V.A.C.

. Fusible Switch Assemblies (where shown): Quick make/quick break load

insulated ground bus extending the length of the switchboard.

A. Manufacturers: Siemens, Square D, Eaton Corporation; Cutler—Hammer Products,

Entrance Equipment and accessible from front only. Busbars shall be fully

insulated aluminum with standard spacing for uninsulated bus. Provide an

Molded Case Circuit Breakers: NEMA AB 1, bolt-on type thermal magnetic

circuit breakers with common trip handle for all poles. Provide stationary

mounting. Provide ground fault sensing when indicated on drawings. Circuit

. Minimum Integrated Short Circuit Rating (MISCR): When so indicated on the

Electrical drawings, the MISCR shall be part of a listed series rated combination

with other overcurrent protective devices. Otherwise, the minimum integrated

interrupter switch with externally operable handle. Provide interlock to prevent

F. Enclosure: Nema 1 or 3R as shown on drawings. Align sections at front and

rear. Nominal switchboard height shall be 90 inches. Provide manufacturer's

B. Fusible Switch Assemblies: Load interrupter enclosed knife switch with externally

C. Nonfusible Switch Assemblies: Load interrupter enclosed knife switch with

B. Panelboard Bus: Copper or aluminum. Provide copper ground bus in each

D. Minimum Integrated Short Circuit Rating (MISCR): When so indicated on the

short circuit rating shall be 10,000 A.I.C. symmetrical for 240 V.A.C.

Electrical drawings, the MISCR shall be part of a listed series rated combination

with other overcurrent protective devices. Otherwise, the minimum integrated

E. Molded Case Circuit Breakers: Bolt—on type thermal magnetic circuit breakers,

Type SWD for lighting circuits. Provide UL Class A ground fault interrupter

G. Cabinet Front: Flush or surface as indicated on drawings with concealed trim

H. Breaker Space Identification: Permanent factory supplied numbering affixed to

A. Manufacturers: Siemens, Square D, Eaton Corporation; Cutler-Hammer Products,

1. Fractional Horsepower Motor Starting Switch with Thermal Overloads: NEMA

2. Fractional Horsepower Motor Starting Switch without Thermal Overloads: AC

general-purpose Class A manually operated, full-voltage controller for

3. Enclosure: Type 1 or 3R as shown on drawings or as required by

4. Enclosure: Type 1 or 3R as shown on drawings or as required by

for induction motors rated in horsepower.

2. Coil operating voltage: 120 volts.

3. Overload Relay: Melting alloy.

5. Product Options and Features

c. Pushbuttons: Unguarded type.

e. Selector Switches: Rotary type.

4. Remote Lamps: Match lamps on unit.

2. Mounting: Universal, for field selection.

secondary to enclosure.

externally operable handle.

d. Indicating Lights: LED or neon type.

A. Furnish products as specified in Lighting Fixture Schedule.

1. Battery: Nickel—cadmium type, with 1.5 hour capacity.

discharged battery to full charge within twelve hours.

Description as indicated in Lighting Fixture Schedule.

discharged battery to full charge within twelve hours.

1. Manufacturers: General Electric, Sylvania, North American Philips

3. Battery: Nickel-cadmium with 1.5 hour capacity.

5. Indicators: Provide lamps to indicate AC ON and RECHARGING.

B. Install ballasts, and specified accessories at factory. Fixtures may be

fractional horsepower induction motors with green pilot light and toggle

1. Magnetic Motor Controllers: AC general—purpose Class A magnetic controller

a. Auxiliary Contacts: 1 field convertible contact in addition to seal—in

f. Control Power Transformers: 120 volt secondary, 50 va minimum, in

Where indicated on Drawings, the following described combination starters shall

2. Fusible Switch Assemblies: NEMA KS 1, enclosed knife switch with externally

pre-lamped and flexible conduit whip installed at factory at contractor's option.

2. Battery Charger: Dual—rate type, with sufficient capacity to recharge

3. Lamps: 12 watt minimum, sealed beam type in nickel or chrome plated

6. Provide TEST switch to transfer unit from external power supply to integral

1. Description: Exit sign fixture suitable for use as emergency lighting unit.

4. Battery Charger: Dual—rate type, with sufficient capacity to recharge

F. Poles shall be capable of withstanding winds of 100 miles per hour minimum.

operable handle. Fuse clips: Designed to accommodate Class R fuses.

1. Nonfusible Switch Assemblies: NEMA KS 1, enclosed knife switch with

each motor starter. Provide fused secondary, and bond unfused leg of

b. Cover Mounted Pilot Devices: NEMA ICS 2, standard duty type.

controller for fractional horsepower induction motors with red pilot light and

ICS 2, AC general—purpose Class A manually operated, full—voltage

"Door—In—Door" style. Finish in manufacturer's standard gray enamel.

circuit breakers where scheduled. Do not use tandem or piggy back circuit

F. Enclosure: NEMA Type 1 or Type 3R as indicated or required by the application.

clamps, concealed hinge, and flush lock all keyed alike. Cabinet front shall be

dead front panel. Adhesive numbering on breaker or dead front panel shall not

with common trip handle for all poles. Provide circuit breakers UL listed as

panelboard. Provide isolated copper ground bus where indicated.

C. The main circuit breaker in panelboards shall be rated at 80%.

operable handle interlocked to prevent opening front cover with switch in ON

position. Handle lockable in OFF position. Fuse clips shall accommodate Class R

externally operable handle interlocked to prevent opening front cover with switch

opening front cover with switch in ON position. Handle lockable in OFF position.

comprising of part of the series rated combination shall be visibly and readily

marked with a label as required by NEC 110—22: "Caution—Series Rated System

fault-current for the system. The second blank space is to be marked with the

C. Series Rated Equipment: Equipment indicated on the electrical drawings as

A. Install work in stages to accommodate Owner's occupancy requirements. During the construction period coordinate electrical schedule and operations with other trades, Owner, and/or Engineer.

3.02 CONDUIT A. Support conduit using coated steel or malleable iron straps, lay—in adjustable

hangers, clevis hangers, and split hangers B. Fasten conduit supports to building structure and surfaces.

C. Do not support conduit with building wire, tiewire or perforated pipe straps. Remove wire used for temporary supports. D. Do not attach conduit larger than 3/4 inch to ceiling support wires. Do not

attach more than one conduit to any one support wire. Arrange conduit to maintain headroom and present neat appearance.

. Route conduit parallel and perpendicular to walls. G. Route conduit under slab from point-to-point.

H. Maintain 3 inch clearance between conduit and surfaces with temperatures exceeding 104 degrees F. I. Join nonmetallic conduit using cement as recommended by manufacturer. Wipe nonmetallic conduit dry and clean before joining. Apply full even coat of cement to entire area inserted in fitting. Allow joint to cure for 20 minutes, minimum. J. Use conduit hubs or sealing locknuts to fasten conduit to sheet metal boxes in

damp and wet locations. K. Install no more than equivalent of four 90-degree bends between boxes. Use conduit bodies to make sharp changes in direction, as around beams. L. Avoid moisture traps; provide junction box with drain fitting at low points in

conduit system. M. Provide suitable fittings to accommodate expansion and deflection where conduit crosses seismic, control or expansion joints.

N. Provide 100 pound test pull string in each empty conduit except sleeves and O. Terminate all conduits with an insulated throat fitting or bushing.

3.03 BUILDING WIRE A. Use 10 AWG conductors for 20 ampere, 120 volt branch circuits longer than

B. Only where necessary, use suitable wire pulling lubricant for building wire 4 AWG

D. Verify continuity of each branch circuit conductor. Verify condition of feeder insulation No. 6 and larger with a 1000 volt megger. Record all readings of all phase conductors.

. Neatly train and lace wiring inside boxes, equipment, and panelboards.

3.04 BOXES A. Install electrical boxes to maintain headroom and to present neat mechanical

B. Inaccessible Ceiling Areas: Install outlet and junction boxes no more than 6 inches from ceiling access panel or from removable recessed luminaire.

C. Do not install flush mounting boxes back—to—back in walls; provide minimum 6 inch separation. Provide minimum 24 inches separation in acoustic rated walls. D. Boxes may be fastened to ceiling support wires only with an approved standoff device maintaining a minimum of 6" from the bottom of the box to the top of

E. Support boxes independently of conduit, except cast boxes that are connected to two rigid metal conduits both supported within 12 inches of box. F. Use cast outlet box in exterior locations exposed to the weather and wet

G. Coordinate locations and sizes of required access doors with Division 8. H. Coordinate mounting heights and locations of outlets mounted above counters, benches and backsplashes

I. Adjust floor boxes flush with finish flooring material. J. Install box or device ring to within 1/8" of finished wall surface. K. Provide stud—to—stud support for boxes in non—masonry walls.

A. Provide panel and circuit number(s) for all circuits contained within each junction or pull box. Use only black "Magic Marker"; no other color is B. All special system junction or pull box covers shall indicate name system, such

3.06 DEVICES A. Install devices plumb and level.

as: "TEL", "DATA", "FIRE ALARM", "SECURITY", etc.

B. Install switches with OFF position down. C. Install decorative plates on switch, receptacle, and blank outlets in finished

D. Use jumbo size plates for outlets installed in masonry walls. E. Install advanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface mounted outlets.

F. Test each receptacle device for proper polarity. G. Test each GFCI receptacle device for proper operation. 3.07 GROUNDING AND BONDING

A. Provide code size bond conductor in all raceways. B. Provide certified test report indicating overall resistance to ground. C. Structural steel bond attachment shall be by exothermic weld.

3.08 ANCHORS AND FASTENERS A. Do not fasten supports to pipes, ducts, mechanical equipment, and conduit. B. Do not drill or cut structural members. C. Install surface—mounted cabinets and panelboards with minimum of four

D. Use sheet metal channel to bridge studs above and below cabinets and panelboards recessed in hollow partitions.

A. Install nameplate and label parallel to equipment lines. B. Secure nameplate to equipment front using tamperproof screws or rivets. 3.10UTILITY SERVICE ENTRANCE A. Make arrangements with Utility Company to obtain permanent electric service to

the Project. 3.11 PANELBOARDS A. Install panelboards plumb. Install recessed panelboards flush with wall finishes.

B. Height: 6 ft to top of panelboard; install panelboards taller than 6 ft with bottom no less than 4 inches above floor. C. Provide filler plates for unused spaces in panelboards.

location above ceiling. Minimum spare conduits: 5 empty 1 inch. Identify each as SPARE. 3.12ENCLOSED MOTOR CONTROLLERS A. Height: 5 ft to top of operating handle.

D. Provide typed circuit directory for each branch circuit panelboard.

E. Provide spare conduits out of each recessed panelboard to an accessible

B. Install fuses in fusible switches. C. Select and install overload heater elements in motor controllers to match installed motor characteristics.

A. Install suspended luminaires and exit signs using pendants supported from

swivel hangers. Provide pendant length required to suspend luminaire at indicated height. Chain suspension may be used in mechanical rooms. B. Support luminaires larger than  $2 \times 4$  foot size independent of ceiling framing. . Install surface mounted luminaires and exit signs plumb and adjust to align

with building lines and with each other. Secure to prohibit movement.

D. Install specified lamps in each luminaire. E. Provide seismic supports and restraints as required by all local and state F. Relamp luminaires utilized during construction at Substantial Completion.

G. Replace excessively noisy ballasts as determined by Architect/Engineer. H. Clean photometric control surfaces. I. Clean finishes and touch up damage. J. Provide minimum of 24 consecutive hours of luminaire operation. Replace

K. Examine excavation and concrete foundation for lighting poles. L. Install poles plumb. Provide double nuts to adjust plumb. Grout around each M. Install bolt covers.

3.14 TELEPHONE TERMINAL BOARDS

A. Install termination backboards and/or cabinets plumb, and attach securely to building wall at each corner. Install cabinet trim plumb. END OF SECTIÓN

defective lamps and ballasts at conclusion of demonstration period.



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CONTACTS: SUPERLUXE SCREEN PRINTING JONATHAN PITT

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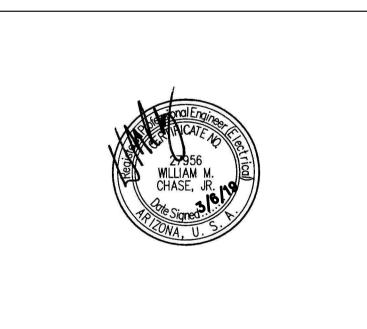
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LANDSCAPE NORRIS DESIGN

(P) 512.900.7888

JOEL THOMAS

| SHEET ISSUE/ KEV: |                 |          |  |  |  |  |
|-------------------|-----------------|----------|--|--|--|--|
| NO.               | DESCRIPTION     | DATE     |  |  |  |  |
| -                 | PRE-APP MTG     | 10.10.18 |  |  |  |  |
| -                 | MINOR SITE PLAN | 01.09.19 |  |  |  |  |
| -                 | CITY SUBMITTAL  | 03.06.19 |  |  |  |  |
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Proi. Nam

**WANDERIST OFFICE & RETAIL** 

JONATHAN PITT

03/06/19

Scale **AS SHOWN** 

**(2)** City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

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DONALD ANDRÉWS

SELF CERTIFIED BY:

Owner

Date

DATE: 03/06/2019

KIVA #18-1372

SDEV #1800276

PAPP #1806619

PRLC

QS Q16-36

**CERTIFICATE #45** 

ELECTRICAL **SPECIFICATIONS** 

NOTE:
PROVIDE TAMPERPROOF SCREWS

FOR UNITS RATED OVER 208 V.

- BOLLARD LUMINAIRE

WITH FIXTURE.

— FINISH GRADE

12" O.C. MÁXÍMUM

- 3000 PSI CONCRETE

BASE. POUR AGAINST

COMPACTED EARTH.

UNDISTURBED OR WELL

PVC CONDUIT WITH BOND

7 1/2" DIA. COPPER PLATE

ELECTRODE PER N.E.C.

250-53. (THOMAS &

BETTS #GP100 OR EQUAL)

- ANCHOR BOLTS FURNISHED

- PROVIDE (3) #2 TIES AT

GROUNDING LUG

AT BOLLARD -

ACORN CLAMP

AT REBAR AND

CU GROUND

1'-0"

(1) BOLLARD MOUNTING DETAIL

ANCHOR BOLT -

SUPERLUXE SCREEN PRINTING JONATHAN PITT

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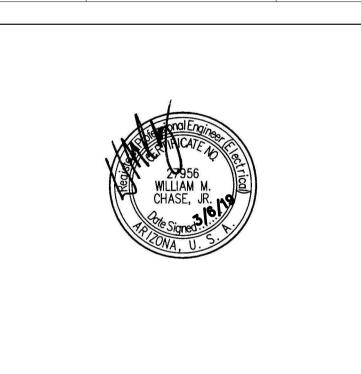
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Owner

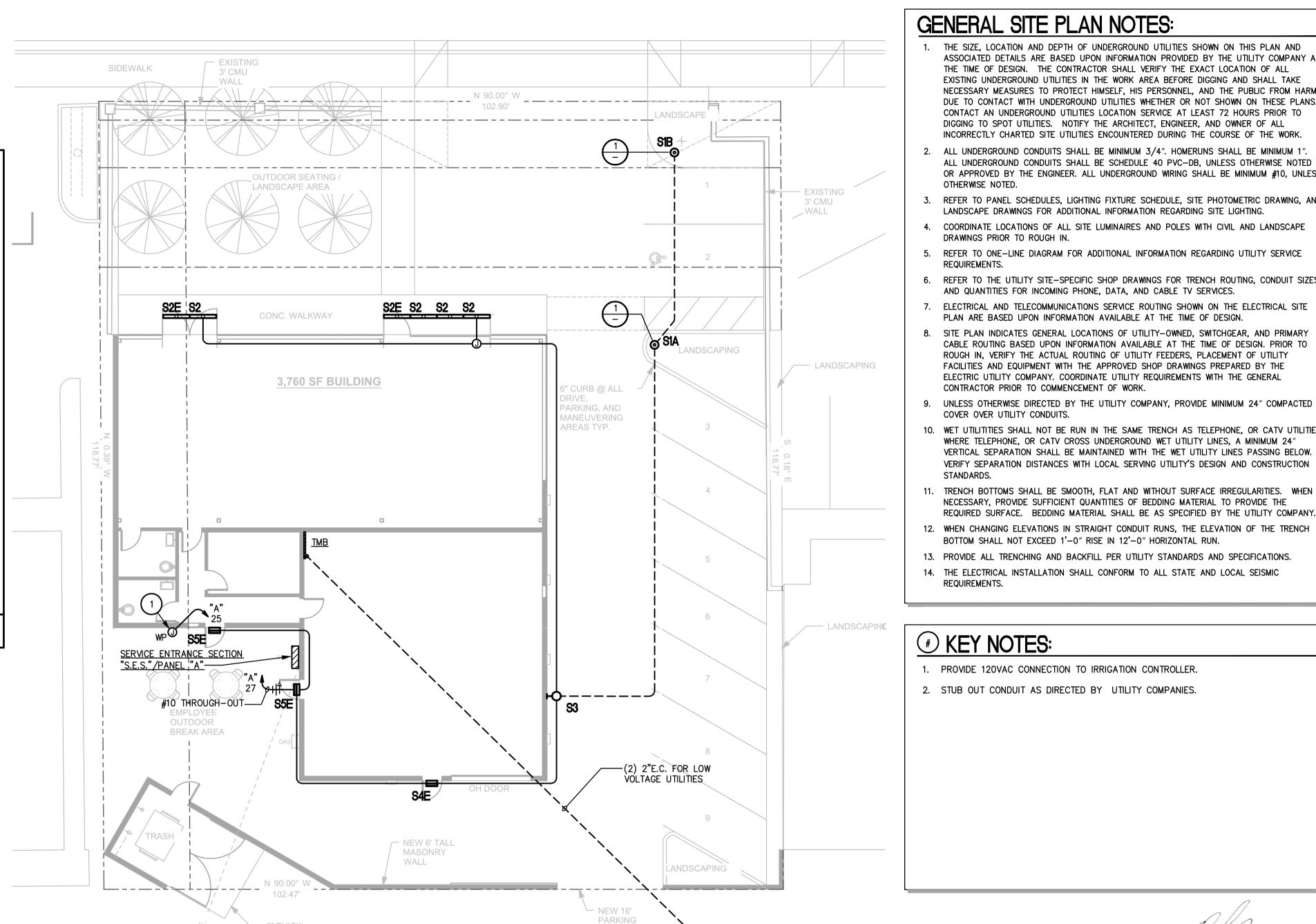
JONATHAN PITT WANDERIST OFFICE & RETAIL

ELECTRICAL SITE PLAN

03/06/19 Date

E100

AS SHOWN Scale



OTHERWISE NOTED.

DRAWINGS PRIOR TO ROUGH IN.

COVER OVER UTILITY CONDUITS.

STANDARDS.

REQUIREMENTS.

1. PROVIDE 120VAC CONNECTION TO IRRIGATION CONTROLLER.

THE SIZE, LOCATION AND DEPTH OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN AND ASSOCIATED DETAILS ARE BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY AT

THE TIME OF DESIGN. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL

EXISTING UNDERGROUND UTILITIES IN THE WORK AREA BEFORE DIGGING AND SHALL TAKE NECESSARY MEASURES TO PROTECT HIMSELF, HIS PERSONNEL, AND THE PUBLIC FROM HARM DUE TO CONTACT WITH UNDERGROUND UTILITIES WHETHER OR NOT SHOWN ON THESE PLANS.

CONTACT AN UNDERGROUND UTILITIES LOCATION SERVICE AT LEAST 72 HOURS PRIOR TO

INCORRECTLY CHARTED SITE UTILITIES ENCOUNTERED DURING THE COURSE OF THE WORK.

ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC-DB, UNLESS OTHERWISE NOTED

OR APPROVED BY THE ENGINEER. ALL UNDERGROUND WIRING SHALL BE MINIMUM #10, UNLESS

REFER TO PANEL SCHEDULES, LIGHTING FIXTURE SCHEDULE, SITE PHOTOMETRIC DRAWING, AND

DIGGING TO SPOT UTILITIES. NOTIFY THE ARCHITECT, ENGINEER, AND OWNER OF ALL

LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SITE LIGHTING.

AND QUANTITIES FOR INCOMING PHONE, DATA, AND CABLE TV SERVICES.

PLAN ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN.

CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

4. COORDINATE LOCATIONS OF ALL SITE LUMINAIRES AND POLES WITH CIVIL AND LANDSCAPE

REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION REGARDING UTILITY SERVICE

REFER TO THE UTILITY SITE-SPECIFIC SHOP DRAWINGS FOR TRENCH ROUTING, CONDUIT SIZES,

CABLE ROUTING BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN. PRIOR TO

10. WET UTILITITIES SHALL NOT BE RUN IN THE SAME TRENCH AS TELEPHONE, OR CATV UTILITIES.

VERTICAL SEPARATION SHALL BE MAINTAINED WITH THE WET UTILITY LINES PASSING BELOW.

VERIFY SEPARATION DISTANCES WITH LOCAL SERVING UTILITY'S DESIGN AND CONSTRUCTION

REQUIRED SURFACE. BEDDING MATERIAL SHALL BE AS SPECIFIED BY THE UTILITY COMPANY.

WHERE TELEPHONE, OR CATV CROSS UNDERGROUND WET UTILITY LINES, A MINIMUM 24"

11. TRENCH BOTTOMS SHALL BE SMOOTH, FLAT AND WITHOUT SURFACE IRREGULARITIES. WHEN

NECESSARY, PROVIDE SUFFICIENT QUANTITIES OF BEDDING MATERIAL TO PROVIDE THE

BOTTOM SHALL NOT EXCEED 1'-0" RISE IN 12'-0" HORIZONTAL RUN.

ROUGH IN, VERIFY THE ACTUAL ROUTING OF UTILITY FEEDERS, PLACEMENT OF UTILITY

FACILITIES AND EQUIPMENT WITH THE APPROVED SHOP DRAWINGS PREPARED BY THE

ELECTRIC UTILITY COMPANY. COORDINATE UTILITY REQUIREMENTS WITH THE GENERAL

2. STUB OUT CONDUIT AS DIRECTED BY UTILITY COMPANIES.

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OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL, - PLANS ARE COMPLETE, - THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION

CODE AND ALL OTHER APPLICABLE LAWS.

ELECTRICAL SITE PLAN

1"=10'-0"

ALLEY

CONC. SLAB

> Phoenix, Arizona 85020 (602) 943.4116 Facsimile (602) 943.2507 PETERSON ASSOCIATES CONSULTING ENGINEERS INC. Job No. 197090

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**W** City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

- EXISTING CMU WALL

GATE

**Project Information** 

Additional Efficiency Package(s)

Allowed Interior Lighting Power

3-Common Space Types:Office - Enclosed

5-Common Space Types:Storage >=1000 sq.ft.

**Proposed Interior Lighting Power** 

3-Common Space Types:Office - Enclosed

5-Common Space Types:Storage >=1000 sq.ft.

terior Lighting PASSES: Design 10% better than code

4-Common Space Types:Restrooms

4-Common Space Types:Restrooms

2-Common Space Types:Corridor/Transition <8 ft wide

2-Common Space Types:Corridor/Transition <8 ft wide

Energy Code:

Project Title:

Project Type:

Construction Site:

1-Retail:Sales Area

1-Retail:Sales Area

LED 1: A: Other:

LED 2: B: Other:

LED 1: A: Other:

LED 2: B: Other:

LED 3: C: Other:

Project Title: Project Type: Exterior Lighting Zone WANDERIST OFFICE & RETAIL New Construction 2 (Neighborhood business district)

**Exterior Lighting Compliance Certificate** 

**△** COM*check* Software Version 4.1.1.0

**COM***check* **Software Version 4.1.1.0** 

WANDERIST OFFICE & RETAIL

2018 IECC

New Construction

Owner/Agent:

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

**Area Category** 

Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast

**Interior Lighting Compliance Certificate** 

Designer/Contractor:

Allowed

Watts / ft2

0.59

0.84

0.77

Fixture Fixtures Watt.

Designer/Contractor:

PACE

Total Allowed Supplemental Watts (b) =

Total Allowed Watts =

# of Fixture (C X D)

35

14 28

Total Proposed Watts = 2695

1050

**Allowed Watts** 

(B X C)

118

109

579

PACE

Floor Area

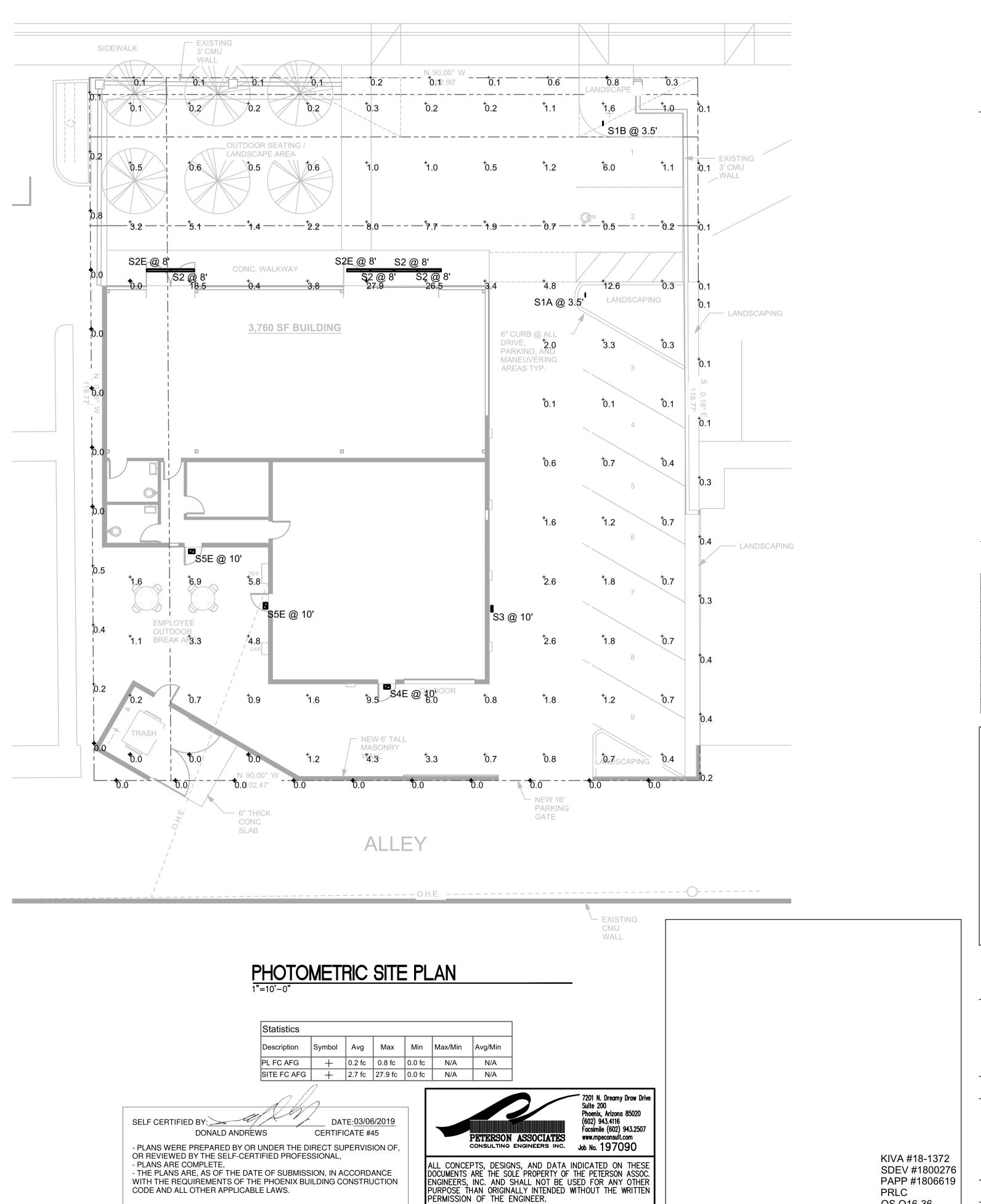
(ft2)

Construction Site:

Allowed Exterior Lighting Power Area/Surface Category Allowed Watts (B X C) Dining area 604 ft2 Loading dock 0.35 Parking area 1630 ft2 0.04 2275 ft2 12 ft of door Pedestrian and vehicular entrances and exits Total Tradable Watts (a) = Total Allowed Watts =

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces. (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

| Α  | В                 | С                | D                | Е       |
|--|-------------------|------------------|------------------|---------|
| Fixture ID: Description / Lamp / Wattage Per Lamp / Ballast                          | Lamps/<br>Fixture | # of<br>Fixtures | Fixture<br>Watt. | (C X D) |
| Dining area (690 ft2): Tradable Wattage  |                   |                  |                  |         |
| LED 5: S5E: Other:   | 1                 | 2                | 12               | 24      |
| <u>Loading dock (604 ft2): Tradable Wattage</u><br>LED 4: S4E: Other:                | 1                 | 1                | 25               | 25      |
| Parking area (1630 ft2): Tradable Wattage  |                   |                  |                  |         |
| LED 1A: S1A: Other:  | 1                 | 1                | 28               | 28      |
| LED 1B: S1B: Other:  | 1                 | 1                | 28               | 28      |
| <u> Driveway (2275 ft2): Tradable Wattage</u>  |                   |                  |                  |         |
| LED 3: S3: Other:  | 1                 | 1                | 39               | 39      |
| Pedestrian and vehicular entrances and exits (12 ft of door width): Tradable Wattage |                   |                  |                  |         |
| LED 2: S2/S2E: Other:  | 1                 | 6                | 13               | 78      |
|  | Total Trad        | dable Propos     | ed Watts =       | 222     |



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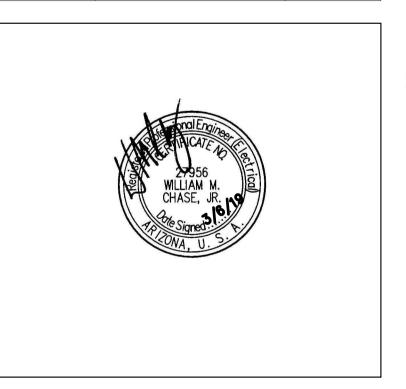
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| -          | PRE-APP MTG     | 10.10.18 |
| -          | MINOR SITE PLAN | 01.09.19 |
| -          | CITY SUBMITTAL  | 03.06.19 |
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JONATHAN PITT Owner WANDERIST OFFICE & RETAIL

> PHOTOMETRIC SITE PLAN

Date 03/06/19

AS SHOWN Scale

QS Q16-36

City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

FIXTURE TYPE 'S2' AND 'S2E'

DATE

10.10.18

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**FIXTURE TYPE 'S1'** 

Rev. 3/13/18



PERMISSION OF THE ENGINEER.

Rev. 06/21/18

**DBLXD** Black

DWHXD White

DSSXD Sandstone

DDBTXD Textured dark bronze

DNATXD Textured natural aluminum

DBLBXD Textured black

DWHGXD Textured white

**DSSTXD** Textured sandstone

L/Lens Less lens

FDL Flat diffuse<sup>7</sup>

80CRI 80 CRI

90CRI 90 CRI

RDL Round diffuse 7,8

WDL Wide diffuse 7.8

DATE: SELF CERTIFIED BY: DONALD ANDREWS CERTIFICATE #45 PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,

WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION

PLANS ARE COMPLETE,

CODE AND ALL OTHER APPLICABLE LAWS.

THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE

PRLC

QS Q16-36

JONATHAN PITT

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DESCRIPTION

PRE-APP MTG

MINOR SITE PLAN

CITY SUBMITTAL

SHEET ISSUE/REV:

7201 N. DREAMY DRAW DRIVE, SUITE 200

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EXTERIOR LIGHTING

FIXTURE CUT SHEETS

03/06/19 Date

**AS SHOWN** Scale

**②** City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

Rev. 06/21/18

LIGHTING.

KIVA #18-1372 SDEV #1800276 PAPP #1806619

DP

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KIVA #18-1372

SDEV #1800276

PAPP #1806619

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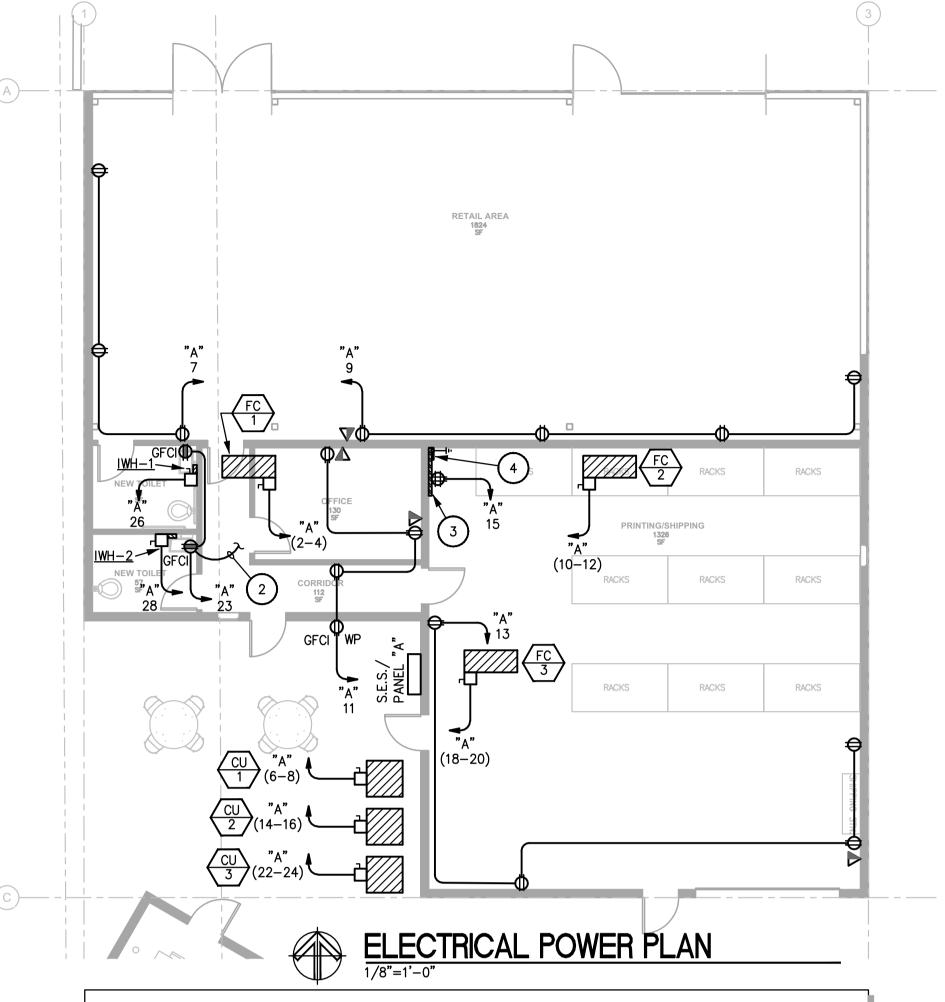
QS Q16-36

JONATHAN PITT

ELECTRICAL PLANS

03/06/19

Scale



### **GENERAL POWER NOTES:**

- REFER TO ONE-LINE DIAGRAM AND EQUIPMENT SCHEDULES FOR ADDITIONAL INFORMATION.
- 2. REFER TO ELECTRICAL PANEL SCHEDULES FOR BRANCH CIRCUIT NUMBERS AND OVERCURRENT DEVICES.
- WHERE POSSIBLE, MOUNT EQUIPMENT DISCONNECT SWITCHES DIRECTLY ON MECHANICAL UNIT SERVED. COORDINATE MOUNTING LOCATION AND SWITCH INSTALLATION WITH MECHANICAL CONTRACTOR. DISCONNECT SWITCH SHALL BE ACCESSIBLE AND MOUNTED SO THE COVER DOOR MAY BE OPENED AT LEAST 90 DEGREES.
- 4. THE LOCATIONS AND MOUNTING HEIGHT OF DEVICES SHOWN ON THESE PLANS ARE DIAGRAMMATIC TO COMMUNICATE QUANTITIES, CIRCUITING, AND GENERAL LOCATIONS. DO NOT SCALE LOCATIONS FROM THESE PLANS. REFER TO ARCHITECTURAL DIMENSIONED PLANS AND ELEVATIONS. VERIFY THE EXACT LOCATIONS OF ALL RECEPTACLES, TELEPHONE AND DATA OUTLETS, AND OTHER SPECIAL SYSTEMS OUTLETS WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5. PRIOR TO ROUGH-IN, FIELD VERIFY FEEDER ROUTING TO ASSURE THERE ARE NO STRUCTURAL OBSTRUCTIONS OR COORDINATION CONFLICTS WITH EQUIPMENT PROVIDED BY OTHER TRADES. IDENTIFIED CONFLICTS AND/OR OBSTRUCTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, IN WRITING, PRIOR TO COMMENCEMENT OF ROUGH-IN.
- 6. VERIFY THE PLACEMENT, WIRING REQUIREMENTS, AND EXACT LOCATION OF POINT OF CONNECTION, FOR ALL HVAC AND PLUMBING EQUIPMENT WITH THE HVAC AND PLUMBING CONTRACTORS PRIOR TO ROUGH-IN. SEE DETAIL FOR METHOD TO BE USED WHEN CONNECTING DIRECT-WIRED EQUIPMENT. COORDINATE LOCATION/INSTALLATION OF DISCONNECT(S) AND WIRING WITH RESPECTIVE SUB-CONTRACTORS.
- 7. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO ARRANGE FOR AND PROVIDE MINIMUM WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT, DEVICES, AND DISCONNECT SWITCHES BASED UPON FIELD CONDITIONS AT THE TIME OF INSTALLATION AND IN ACCORDANCE WITH NEC ART. 110.26, IF THIS IS NOT POSSIBLE. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.
- 8. ALL CONDUITS SHALL BE PROVIDED WITH A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH NEC TABLE 250.122. IN ADDITION, PROVIDE A SEPARATE FULL—SIZED ISOLATED GROUND CONDUCTOR IN CIRCUITS INDENTIFIED AS "IG".
- 9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM LOAD INFORMATION PROVIDED IN ELECTRICAL EQUIPMENT SCHEDULES. VERIFY THE LOAD AND CONNECTION REQUIREMENTS OF ALL EQUIPMENT FURNISHED BY OTHERS.
- 10. ALL ENCLOSED MOTOR CONTROLLERS SHALL BE FURNISHED WITH FULL-SIZED OVERLOADS, 120V CONTROL-VOLTAGE TRANSFORMERS WITH PRIMARY AND SECONDARY FUSING, ROTARY H-O-A SELECTOR SWITCH, COVER-MOUNTED ON/OFF PILOT LIGHTS, AND TWO SETS EACH OF N.O. AND N.C. AUXILIARY DRY CONTACTS.
- 11. ALL 120V SINGLE PHASE BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS. COMMON NEUTRALS ARE NOT ACCEPTABLE. (EXCEPTION: MULTIWIRE BRANCH CIRCUITS.)
- 12. PROVIDE ID TAGS ON NEUTRAL CONDUCTORS IN PANELBOARD TO IDENTIFY ASSOCIATED BRANCH CIRCUIT.
- 13. PROVIDE SUPPORTS, HANGERS, MISCELLANEOUS SWITCHES, CONTROLS, AND DEVICES FURNISHED WITH OWNER FURNISHED EQUIPMENT AS REQUIRED FOR A COMPLETE INSTALLATION.
- 14. ALL RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED AS 'WEATHER RESISTANT'. RECEPTACLES LOCATED OUTDOORS IN WET LOCATIONS SHALL HAVE AN ENCLOSURE THAT IS LISTED AS WEATHER-PROOF WHETHER OR NOT THE ATTACHMENT PLUG CAP IS INSERTED. (NEC ART.406.9(A)(B)).
- 15. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL LOCAL AND STATE SEISMIC REQUIREMENTS.

# GENERAL LIGHTING NOTES:

REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION ABOUT FIXTURE TYPES, QUALITY, LAMPS, BALLASTS, ACCESSORIES, AND INSTALLATION REQUIREMENTS.

ELECTRICAL LIGHTING PLAN

- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT PLACEMENT AND QUANTITIES OF CEILING MOUNTED LIGHT FIXTURES. COORDINATE PLACEMENT AND INSTALLATION OF CEILING MOUNTED ELECTRICAL ITEMS WITH OTHER TRADES TO AVOID CONFLICTS.
- 3. REFER TO LIGHTING CONTACTOR AND/OR CONTROL DETAILS FOR ADDITIONAL INFORMATION.

DP

- INSTALL SURFACE MOUNTED EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS ON EITHER WALL OR CEILING SURFACE AS DIRECTED BY THE ARCHITECT. EXIT SIGNS AND EMERGENCY LIGHTING SHALL BE CIRCUITED FROM LOCAL LIGHTING CIRCUITS. THEY SHALL NOT BE SWITCHED.
- 5. "EM" INDICATES AN EMERGENCY LIGHT FIXTURE SERVING AS AN EMERGENCY EGRESS LIGHT REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- 6. EXIT SIGNS, EMERGENCY LIGHTS, AND EMERGENCY BALLASTS SHALL BE CIRCUITED FROM THE LOCAL UNSWITCHED LIGHTING BRANCH CIRCUIT.
- 7. "NL" INDICATES AN UNSWITCHED LIGHTING FIXTURE SERVING AS A NIGHTLIGHT.
- 8. AN AVERAGE OF AT LEAST 1.0 FOOT-CANDLE SHALL BE PROVIDED FOR EMERGENCY EGRESS LIGHTING. HEADS OF EMERGENCY LIGHTING UNITS SHALL BE AIMED BY THE CONTRACTOR PER MANUFACTURER'S INSTRUCTIONS AND AS DIRECTED BY THE LOCAL INSPECTOR.
- 9. EXIT LIGHT POSITIONS SHALL BE COORDINATED WITH PENDANT LIGHTS AND OTHER ARCHITECTURAL FEATURES TO MINIMIZE OBSTRUCTIONS TO CLEAR VISIBILITY.
- 10. UNITIZED EMERGENCY LIGHT FIXTURES, EXIT SIGNS, AND LED FIXTURES CONTAINING INTEGRAL BATTERIES AND CHARGING EQUIPMENT SHALL BE SERVED IN ACCORDANCE WITH NEC ART. 700.12(F). THE BRANCH CIRCUIT SHALL BE CLEARLY
- IDENTIFIED IN THE PANEL AS SERVING EMERGENCY LIGHTING. 11. FINAL QUANTITIES AND LOCATIONS OF EMERGENCY LIGHTS AND EXIT SIGNS ARE TO BE DETERMINED IN THE FIELD WITH CITY AND STATE INSPECTORS AND THE ARCHITECT. THE CONTRACTOR SHALL PROVIDE A UNIT PRICE IN HIS BID FOR ADDITIONAL EXIT SIGNS & EMERGENCY LIGHTS THAT MAY BE REQUIRED BY THE LOCAL JURISDICTION.
- 12. ALL CONDUITS SHALL BE FURNISHED WITH A GREEN EQUIPMENT GROUND SIZED IN ACCORDANCE WITH NEC TABLE 250.122.
- 13. PROVIDE A SEPARATE NEUTRAL FOR ALL 120V LIGHTING BRANCH CIRCUITS. COMMON (SHARED) NEUTRALS ARE NOT ACCEPTABLE.
- 14. PROVIDE A NEUTRAL CONDUCTOR AT ALL LIGHT SWITCHES PER NEC ART. 404.2.
- 15. ALL LIGHTING CIRCUITS ARE TO BE CONTROLLED AT THE PANELBOARD WITH CIRCUIT BREAKERS RATED FOR SWITCHING DUTY UNLESS LOCAL SWITCHING IS EITHER SHOWN OR OTHERWISE NOTED ON THE DRAWINGS.
- 16. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATIONS AND INSTALLATION OF ALL CEILING RECESSED LIGHTING FIXTURES WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
- 17. THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.
- 18. ALL BIDDING CONTRACTORS SHALL INCLUDE LIGHT FIXTURE PACKAGE AND CONTROLS AS SCHEDULED ON THE PLANS AS PART OF BASE BID.
- 19. CONTRACTORS MAY SUBMIT ALTERNATE LIGHT FIXTURE AND LIGHTING CONTROLS BY OTHER MANUFACTURERS THAN THOSE SHOWN IN THE LIGHT FIXTURE SCHEDULE AS PART OF BID, PROVIDED THEY ARE EQUAL IN ALL MANNERS INCLUDING BUT NOT LIMITED TO APPEARANCE, PERFORMANCE AND WARRANTY. THE BURDEN OF PROOF OF EQUALITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND ALTERNATE MANUFACTURER. EVALUATION AND ACCEPTANCE OF ALTERNATES SHALL BE BY THE ARCHITECT, OWNER/TENANT AND/OR BUILDING MANAGEMENT. ALTERNATE MANUFACTURERS SHALL FURNISH COMPLETE POINT-BY-POINT PHOTOMETRY OF INTERIOR AND EXTERIOR LIGHTING IF SO REQUESTED BY THE OWNER, ARCHITECT, ENGINEER OR THE LOCAL AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL CHARGE.
- 20. SHOP DRAWINGS AND/OR SUBMITTALS FOR ANY ALTERNATE LIGHT FIXTURE OR LIGHTING CONTROLS SHALL INCLUDE WRITTEN CONFIRMATION THAT SUCH ALTERNATE WAS REVIEWED AND APPROVED BY ARCHITECT, OWNER/TENANT AND/OR BUILDING MANAGEMENT.

### IECC LIGHTING COMPLIANCE

ALL LIGHTING INSTALLATIONS SHALL CONFORM TO THE LOCALLY ADOPTED EDITION OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC). SEE COMCHECK FORMS FOR SPECIFIC REQUIREMENTS OF THIS PROJECT.



3. NEW 4'x8'x3/4" FIRE RETARDANT PLYWOOD FOR LOW VOLTAGE SYSTEMS BACK BOARD.

LIGHTING CONTROL SYMBOLS

FIXTURE WITH DAY LIGHT CONTROL

WALL MOUNTED MOTION SWITCH WITH 0-10VDC DIMMING. MOUNT TOP OF BOX AT +48" AFF.

WALL MOUNTED MOTION SWITCH. MOUNT TOP OF BOX AT +48"

CEILING MOUNTED DUAL TECH MOTION SENSOR AND DIMMING

LOW VOLTAGE OVERRIDE SWITCH WITH DIMMING. MOUNT TOP OF BOX AT +48" AFF. D#-NUMBER OF LOADS CONTROLLED.

# **# KEY NOTES:**

- 1. DOWN TO RECEPTACLE BELOW.
- 2. UP TO LIGHT FIXTURE OVERHEAD.
- 4. NEW 12"x6" PRE-DRILLED COPPER GROUND BUS FOR LOW VOLTAGE AND COMMUNICATION SYSTEM BONDING. FURNISH #6 BARE COPPER GROUND TO INTERSYSTEM BONDING BUS BAR AT S.E.S.

CEILING MOUNTED DUAL TECH MOTION SENSOR

DIMMING PACK 0-10V DC MOUNTED ABOVE ACCESSIBLE CEILING.

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| NO. | DESCRIPTION     | DATE     |
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| -   | PRE-APP MTG     | 10.10.18 |
| -   | MINOR SITE PLAN | 01.09.19 |
| -   | CITY SUBMITTAL  | 03.06.19 |
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Date

**AS SHOWN** 

ACUITY CONTROLS LEGEND Created by John Abberton \$0V WSX PDT SA XX Wall Switch Sensor, Passive Dual Technology, Vacancy (default) or Auto-On

NPP16 D EFP Power/Relay Pack, Occupancy Controlled

DS

NCM PDT 10 ADCX Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360 Lens, Photocontrol w/ Auto Dimming; No Wires

Low Voltage Push-Button Wallpod

n\$ 2D NPODM 2P DX XX ns 20 Low Voltage Push-Button Wallpod, 2-Pole, Occupancy controlled dimming without dimming

 $\Box S$ NCM PDT 10 Low Voltage Ceiling Mount Sensor, Passive Dual Technology, Large Motion / Extended Range 360 Lens

Pre-terminated CAT5e cable

WIRE LEGEND - Design 1 CAT5e CAT5e

GENERAL LIGHTING CONTROL NOTES:

output

THE WIRING DIAGRAMS SHOWN ARE GENERIC FOR THE PURPOSE OF SHOWING GENERAL INTENT. THE CONTRACTOR SHALL OBTAIN COMPLETE SHOP DRAWINGS, INCLUDING COMPLETE AND PROJECT SPECIFIC WIRING DIAGRAMS FOR EACH PROJECT FROM THE CONTROLS SUPPLIER/INSTALLER. THE SHOP DRAWINGS MUST BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF ANY WORK RELATED TO THE LIGHTING CONTROL

THE CONTRACTOR SHALL PROVIDE COMMISSIONING OF THE SYSTEM BY A FACTORY CERTIFIED TECHNICIAN. THE FACTORY CERTIFIED TECHNICIAN SHALL PROVIDE A REPORT CERTIFYING THAT THE SYSTEM IS OPERATING PROPERLY UPON SUBSTANTIAL COMPLETION

THE CONTRACTOR'S BID AND INSTALLATION SHALL BE BASED ON A COMPLETE AND FUNCTIONAL INSTALLATION.

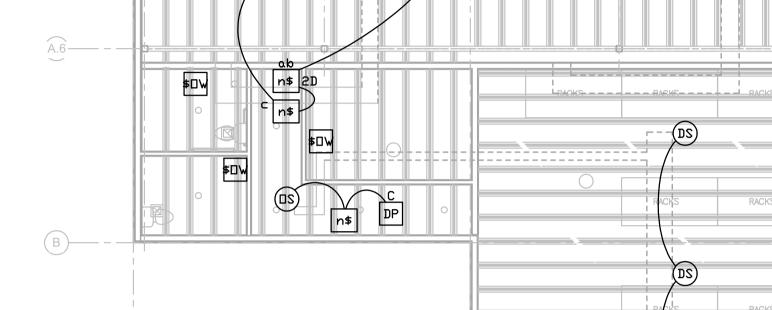
OCCUPANCY SENSOR LOCATIONS AND QUANTITIES ARE BASED ON INFORMATION AVAILABLE AT THE TIME OF THE DESIGN AND ARE APPROXIMATE LOCATIONS. THE CONTRACTOR AND LIGHTING CONTROLS SUPPLIER/INSTALLER SHALL DETERMINE EXACT QUANTITIES AND LOCATIONS OF SENSORS BASED ON THE FINAL FIELD CONDITIONS DURING THE DEVELOPMENT OF THE PROJECT SHOP DRAWINGS.

5. ULTRASONIC CEILING MOUNTED OCCUPANCY SENSORS SHALL BE LOCATED A MINIMUM OF 6'-0" FROM A SUPPLY AIR DIFFUSER OR REGISTER.

6. THE CONTRACTOR AND LIGHTING CONTROLS SUPPLIER/INSTALLER ARE RESPONSIBLE FOR PROVIDING ADEQUATE ROOM CONTROLLERS AND WIRING TO PROPERLY OPERATE THE SYSTEM PER THE SEQUENCE OF OPERATIONS AND THE ZONING PLAN.

LOCATIONS AND QUANTITIES OF PHOTOCELLS SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR WITH THE LIGHTING CONTROLS SUPPLIER/INSTALLER PRIOR TO SUBMITTAL OF SHOP DRAWINGS BEING SUBMITTED FOR REVIEW.

8. A PRE-INSTALL MEETING SHALL BE HELD ON THE JOB SITE WITH THE OWNER/TENANT'S PROJECT MANAGER, GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR AND LIGHTING CONTROLS SUPPLIER/INSTALLER PRIOR TO ROUGH-IN OF ANY LIGHTING CONTROL COMPONENTS.



□RG 277∨

DAYLIGHT ZONE

PRINTING/SHIPPING

NCM PDT 10 ADCX

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NCM PDT 10 ADCX

Ⅲ BLK- 120V/ ' □RG 277∨ NCM PDT 10 ADCX

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⊞ BLK- 120V/ □RG 277V IFI BLK- 120V/ □RG 277∨ DAYLIGHT ZONE DP<sup>™</sup>[Dc ON/OFF] DATE: 03/06/2019 SELF CERTIFIED BY: DONALD ANDREWS CERTIFICATE #45 - PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF,

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PLANS, DRAWINGS, AND NOTES.

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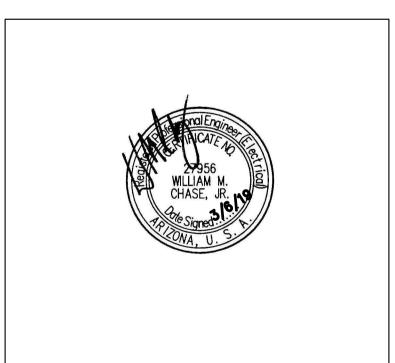
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JONATHAN PITT

LIGHTING CONTROLS

03/06/19 Date

Scale **AS SHOWN** 

**Output** City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

CODE AND ALL OTHER APPLICABLE LAWS.

- PLANS ARE COMPLETE,

LIGHTING CONTROLS PLAN

1/8"=1'-0"

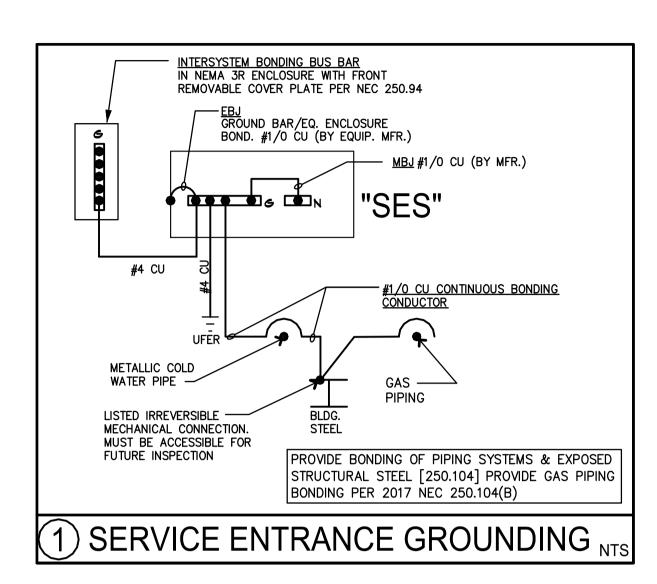
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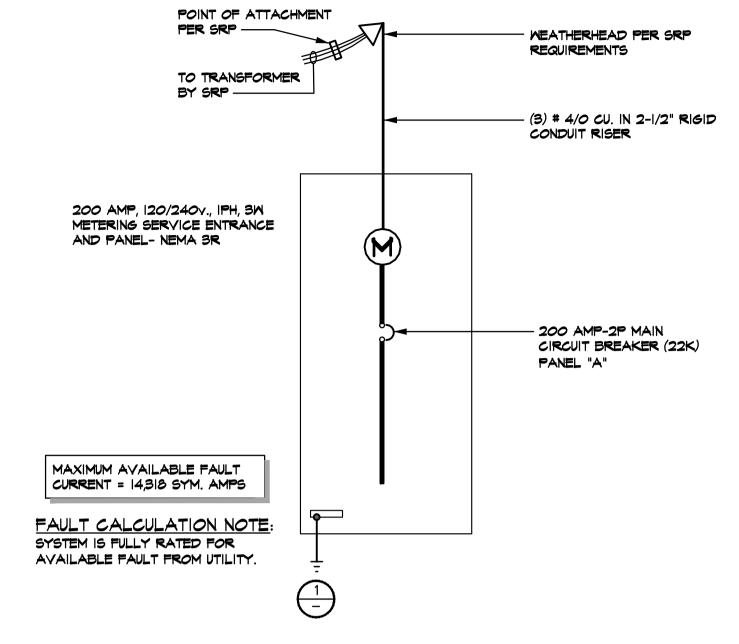
03/06/19 Date

**AS SHOWN** 

### GENERAL ONE-LINE NOTES:

- VERIFY UTILITY COMPANY METERING REQUIREMENTS WITH THE UTILITY COMPANY REPRESENTATIVE BEFORE ORDERING SES AND RELATED SERVICE EQUIPMENT.
- SUBMIT SERVICE EQUIPMENT SHOP DRAWINGS TO UTILITY COMPANY FOR ITS REVIEW AND APPROVAL PRIOR TO SUBMITTING SHOP DRAWINGS TO THE ENGINEER FOR REVIEW. SHOP DRAWING SUBMITTAL TO THE ENGINEER SHALL INCLUDE UTILITY COMPANY METERING AND SERVICE EQUIPMENT REQUIREMENTS ALONG WITH WRITTEN EVIDENCE OF THE UTILITY COMPANY'S APPROVAL OF SERVICE EQUIPMENT SHOP DRAWINGS.
- SELECTION AND DESIGN OF SES, SWITCHGEAR, LOW-VOLTAGE DISTRIBUTION SWITCHBOARDS, AND PANEL BOARDS INDICATED HEREIN ARE BASED UPON SIEMENS. EQUIPMENT BY OTHER MANUFACTURERS LISTED IN THE SPECIFICATIONS IS ACCEPTABLE PROVIDED THE EQUIPMENT CONFORMS TO THE PROJECT-SPECIFIC SPECIFICATIONS AND ALL INDICATED SPARE DEVICES, BUSSED SPACE, AND PROVISIONS FOR FUTURE SECTIONS ARE PROVIDED. ALTERNATE OR SUBSTITUTED EQUIPMENT SHALL FIT IN THE AVAILABLE AREA SHOWN ON THE FLOOR PLANS WITH ALL NEC REQUIRED WORKING SPACE AND SAFETY CLEARANCES MAINTAINED. THE CONTRACTOR SHALL FURNISH A 1/4" SCALE SHOP DRAWING WITH HIS SUBMITTAL PROVING SUBSTITUTED EQUIPMENT FITS AS DESCRIBED HEREIN.
- ALL PANEL BOARDS SHALL BE FULLY RATED UNLESS SPECIFICALLY INDICATED ON EITHER THE ONE-LINE DIAGRAM OR ON THE PANEL SCHEDULES THEY MAY BE 'SERIES RATED'. SERIES RATING AS REFERRED TO HEREIN MEANS THE OVERCURRENT DEVICES SHALL BE PART OF A LISTED SERIES-RATED COMBINATION WITH THE RESPECTIVE FEEDER BREAKER IN THE DISTRIBUTION PANEL IMMEDIATELY UPSTREAM FROM THE PANEL. NO DESIGN CHANGES MAY BE MADE WITHOUT THE PRIOR APPROVAL OF THE DESIGN ELECTRICAL ENGINEER AND THE LOCAL ELECTRICAL INSPECTOR.
- FOR EACH SERIES-RATED SWITCHBOARD OR PANELBOARD, A PERMANENT NAMEPLATE SHALL BE PROVIDED TO INDICATE THE SERIES RATING. NAMEPLATE SHALL BE ENGRAVED, 3-LAYERED LAMINATED PLASTIC WITH BLACK LETTERING ON A YELLOW BACKGROUND AND SHALL BE ATTACHED ADJACENT TO THE MANUFACTURER'S SERIES RATING LABEL. NAMEPLATE SHALL READ "CAUTION. THIS PANEL IS PART OF A SERIES COMBINATION \_\_\_KA/\_\_KA RATED SYSTEM. AVAILABLE FAULT CURRENT AT THIS LOCATION IS \_\_\_\_AMPS." (REFER TO SHORT-CIRCUIT STUDY RESULTS FOR APPROPRIATE VALUE OF AVAILABLE FAULT CURRENT.) LETTERING FOR THE WORD "CAUTION" SHALL BE 3/8" HIGH AND THE REMAINING LETTERING SHALL BE 3/16".
- SES SHALL BE SERVICE ENTRANCE RATED.
- THE ELECTRICAL INSTALLATION SHALL CONFORM TO ALL STATE AND LOCAL SEISMIC REQUIREMENTS.





ONE-LINE DIAGRAM

SELF CERTIFIED BY:

- PLANS ARE COMPLETE,

DONALD ANDREWS

CODE AND ALL OTHER APPLICABLE LAWS.

OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF,

- THE PLANS ARE, AS OF THE DATE OF SUBMISSION, IN ACCORDANCE WITH THE REQUIREMENTS OF THE PHOENIX BUILDING CONSTRUCTION

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|   | Cabinet: NEMA 3R        | Feed Thru:   | VO    |          | Service Rated | : YES                |                        | "A   | <b>,</b>               |                 |
|   | Type: BOLT-ON           | Mounting: \$ | SURFA | CE       | Voltage       | : 120/240V1Ph3W.     | Bracing: 22,000 A.I.C. |      | A.I.C. Ma              | ins: 200A. MCB  |
|   | Use and/or Area Served  |              | C/B   | Cir. No. | Phase A       | Volt-Amperes Phase B | Cir. No.               | C/B  | Use and/or Area Served | d               |
| Α | LTG: FRONT RETAIL       |              | 20/1  | 1        | 1219<br>828   | - Triade B           | 2                      | -    |                        |                 |
| 4 | LTG/EM LTG: RETAIL      |              | 20/1  | 3        | 020           | 700<br>828           | 4                      | 15/2 | FC-1                   |                 |
| 4 | LTG/EM LTG: BOH         |              | 20/1  | 5        | 683<br>3420   | 020                  | 6                      |      |                        |                 |
|   | RECEPT: RETAIL WEST     |              | 20/1  | 7        | 3420          | 540<br>3420          | 8                      | 40/2 | CU-1                   |                 |
|   | RECEPT: RETAIL EAST     |              | 20/1  | 9        | 720           | 3420                 |                        |      |                        |                 |
|   | RECEPT: OFFICE/CORR/PA  | TIO          | 20/1  | 11       | 828           | 720                  | 10                     | 15/2 | FC-2                   |                 |
|   | RECEPT: SHIPPING        |              | 20/1  | 13       | 720<br>3420   | 828                  | 12                     |      |                        |                 |
|   | RECEPT: TMB             |              | 20/1  | 15       | 3420          | 360                  | 14                     | 40/2 | CU-2                   |                 |
|   | SPARE                   |              | 20/1  | 17       | 0             | 3420                 | 16                     |      |                        |                 |
|   | SPARE                   |              | 20/1  | 19       | 828           | 0                    | 18                     | 15/2 | FC-3                   |                 |
|   | SPARE                   |              | 20/1  | 21       | 0             | 828                  | 20                     |      |                        |                 |
| D | LTG/EM LTG/RECEPT: TOIL | ETS          | 20/1  | 23       | 4104          | 748                  | 22                     | 50/2 | CU-3                   |                 |
|   | IRRIGATION CONTROLLER   |              | 20/1  | 25       | 180           | 4104                 | 24                     | 40/1 | IWH-1                  |                 |
| D | EXTERIOR LTG            |              | 20/1  | 27       | 3600          | 296                  | 26                     | 40/1 | IWH-2                  |                 |
|   | SPACE                   |              |       | 29       |               | 3600                 | 28                     | _    | SPACE                  |                 |
|   | SPACE                   |              | _     | 31       |               |                      | 30                     | _    | SPACE                  |                 |
|   | SPACE                   |              |       | 33       |               |                      | 32                     | _    | SPACE                  |                 |
|   | SPACE                   |              |       | 35       |               |                      | 34                     | _    | SPACE                  |                 |
|   | SPACE                   |              |       | 37       |               |                      | 36                     | _    | SPACE                  |                 |
|   | SPACE                   |              |       | 39       |               |                      | 38                     | _    | SPACE                  |                 |
|   | Total Load per Phase    |              |       |          | 20549         | 20392                | 40<br>20550 \          |      |                        | <b>1.3</b> Amps |

### PANEL SCHEDULE SYMBOLS

- A CONTINUOUS DUTY/LARGEST LOAD @125% **B** PROVIDE BREAKER WITH HANDLE "LOCK-ON" DEVICE C PROVIDE BREAKER WITH HANDLE "LOCK-OFF" DEVICE
- D CONTROLLED BY PHOTOCELL E CONTROLLED BY TIMECLOCK
- F EXISTING BREAKER WITH LOAD REMOVED
- **G** EXISTING BREAKER WITH NEW LOAD
- H NEW BREAKER WITH NEW LOAD J SHUNT-TRIP CIRCUIT BREAKER



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**②** City of Phoenix Plan #: 1901783-LPSC Date: 03/12/19

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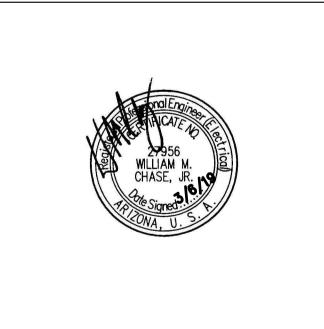
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|------------|-----------------|----------|
| NO.        | DESCRIPTION     | DATE     |
| -          | PRE-APP MTG     | 10.10.18 |
| -          | MINOR SITE PLAN | 01.09.19 |
| -          | CITY SUBMITTAL  | 03.06.19 |
|            |                 |          |
|            |                 |          |
|            |                 |          |
|            |                 |          |
|            |                 |          |
|            |                 |          |



Owner

DATE: **CERTIFICATE #45** 

KIVA #18-1372

SDEV #1800276

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