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 MTL	MILLIMETER, -S 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, # NOM	NUMBER 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 FURNISHED/CONTRACTOR	A401	SECTION DETAILS	03/06/1
	INSTALLED	A500	PLAN DETAILS	03/06/1
OFI	OWNER FURNISHED &			
ОН	INSTALLED 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 PERF	POUNDS PER CUBIC FEET	S0.1	GENERAL STRUCTURAL NOTES	03/06/1
PENF PL	PERFORATE, -D 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	
PLYWD	PLYWOOD	S1.2	TYPICAL DETAILS	
PNL PNT, P	PANEL 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 R	PARTITION RECEPTACLE	S2.1	FOUNDATION PLAN	03/06/1
n 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 REFL	REFERENCE 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 REV	REQUIRED 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 SHT	SECTION 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 SPF	SPECIFICATION (S) SPRAY POLYURETHANE	M301	MECHANICAL SPECIFICATIONS	03/06/1
	FOAM	M302	MECHANICAL SPECIFICATIONS	03/06/1
SPK	SPEAKER		WEGIANIOAL OF LOFTOATIONS	03/06/1
SPR SO	SINGLE-PLY ROOFING SQUARE	Electrical	ELECTRICAL LECEND AND COLUED IN EC	00/00/4
SQ SST, SS	SQUARE 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 STL	STANDARD 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.

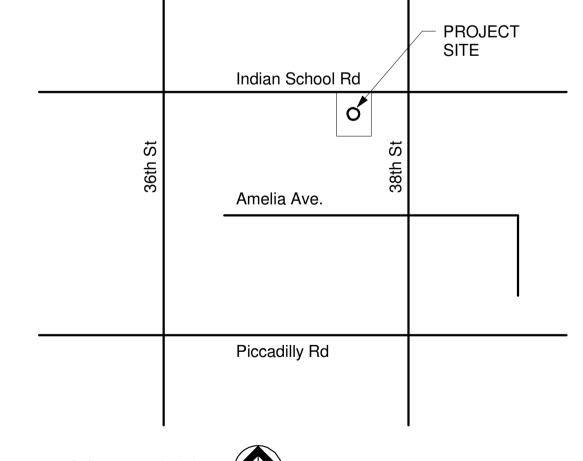
ALL BIDS SUBMITTED AND ACCEPTED UNDER THIS CONTRACT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DOCUMENTS.

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**

#### **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

**ELEVATOR** 

**EQUAL EQUIPMENT EXISTING** 

**EXPOSED** 

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

FINISH

**FUTURE** 

GAUGE

**GYPSUM** 

HOSE BIB

HEIGHT

GALVANIZED

**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, -S

MAXIMUM

MEDIUM

**MEMBRANE** 

METAL, -LIC

MANUFACTURED

MANUFACTURER

MEDIUM DENSITY

FIBERBOARD

MECHANIC, -AL

JOINT

LEVEL

**INTERRUPTER** 

FLOOR, -ING

FINISHED FLOOR

FIRE HOSE CABINET

FACE OF CONCRETE

FACE OF MASONRY

FACE OF FINISH

FACE OF STUDS

**EMERGENCY** ELECTRICAL PANEL

**EXPANSION JOINT ELEVATION** ELECTRICAL

EXTERIOR INSULATION AND

CENTER

CONSTRUCTION

CONTINUE, -OUS

DEMOLISH, DEMOLITION

ANOD

**BETW** 

**BLDG** 

BOC

CLG

CMU

COL

CONC

CONST

CONT

CORR

CTR

DEMO

DIAG

DIM

EIFS

ELEV

**EMER** 

EX, (E) EXP

EXT

FLR, FL

GAL, GALV

HGT. HT

HVAC

INCL

INSUL

LVL

MDF

MANUF

MAT, MATL

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 THK 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

**Output Output Ou** 

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT. THAN ORIGINALLY DRAWN, ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF PRIOR WRITTEN AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC

ERWIN | ARCHITECTURE DEVELOPMENT

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE

# **CONTACTS:**

OWNER SUPERLUXE SCREEN PRINTING JONATHAN PITT (E) JON@THEWANDERIST.COM (P) 480.247.6653

ARCHITECT
ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM (P) 602.677.8372

<u>SELF-CERTIFIED ARCHITECT</u> ANDREWS DESIGN GROUP INC. DON ANDREWS JR. (E) DON@ADGARCH.NET (P) 480.894.3478

3 ENGINEERING DAN MANN, P.E. 6370 E. THOMAS RD. SUITE 200. SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM

(P) 602.334.4387 UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM

(P) 480.382.9768 PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200 PHOENIX. AZ 85020

(P) 602.388.1716 JOEL THOMAS

(P) 512.900.7888

(E) DAMEM@MPECONSULT.COM

(E) JTHOMAS@NORRIS-DESIGN.COM

# SHEET ISSUE/REV:

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



Owner WANDERIST OFFICE & RETAIL

03/06/19

Scale

1 REQUIRED

IBC TABLE 2902.1						
CLASSIFICATION	OCCUPANCY	WATER CLOSETS	LAVS	TUB / SHOWERS	DRINKING FOUNTAINS	OTHER
BUSINESS	В	1 per 25 for the first 50 and 1 per 50 for the remainder exceeding 50 14/50 = .28	1 per 40 for the first 80 and 1 per 80 for the remainder exceeding 80 14/40 = .35	-	1 per 100 14/100 = .14	1 Service Sink
MERCANTILE	М	1 per 500 78/500 = .15	1 per 750 78/750 = .10	-	1 per 1000 78/1000 = .078	1 Service 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
A		W 75		Skylights			272 N	8
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 LOAD
OFFICE & STOCK ROOM	В	1408 SF	GROSS	100 SF	14
RETAIL AREA	М	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

# **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 S-1 S-1 <b>B</b> <b>M</b> A-3 A-3 R-2 R-2 N/A A-3	200 GRO 300 GRO 300 GRO <b>100 GRO</b> <b>30 GROS</b> 50 GROS 200 GRO 200 GRO 100 GRO 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 2 HR (M) 0 HR 0 HR 0 HR 0 HR 0 HR	TABLE 60 TABLE 60 TABLE 60 TABLE 60 TABLE 60

# SAFETY GLAZING

GLAZING LOCATION	MINIMUM CATEGO 9 SF OR LESS	DRY CLASSIFICATIO 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

# ERWIN | ARCHITECTURE DEVELOPMENT

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN. ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT PRIOR WRITTEN AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC. RETAINS OWNERSHIP OF ALL DRAWINGS.

### **CONTACTS:**

PLANS, DRAWINGS, AND NOTES.

SUPERLUXE SCREEN PRINTING JONATHAN PITT (E) JON@THEWANDERIST.COM

(P) 480.247.6653 ARCHITECT
ERWIN ARCHITECTURE & DEVELOPMENT, LLC.

WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM (P) 602.677.8372

SELF-CERTIFIED ARCHITECT ANDREWS DESIGN GROUP INC. DON ANDREWS JR. (E) DON@ADGARCH.NET (P) 480.894.3478

3 ENGINEERING DAN MANN, P.E.

6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM (P) 602.334.4387

UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM (P) 480.382.9768

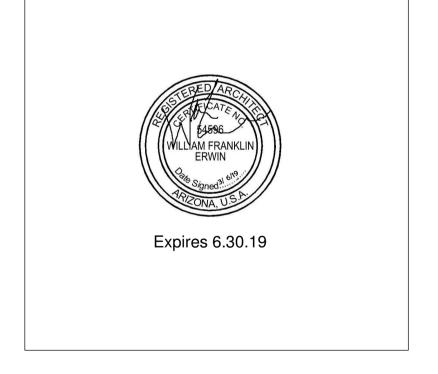
PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200 PHOENIX, AZ 85020 (E) DAMEM@MPECONSULT.COM (P) 602.388.1716

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

DATE: 03/11/19 SELF CERTIFIED BY: 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.

1 CODE PLAN AND EXITING DIAGRAM

TRAVEL DISTANCE = 49'-0"

14 OCCUPANTS **OFFICE & STOCK ROOM** 

MAX 10% OF GROSS AREA FOR STORAGE AS

ACCESSORY OCCUPANCY

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

OWNER SUPERLUXE SCREEN PRINTING

RETAINS OWNERSHIP OF ALL DRAWINGS.

CONTACTS:

PLANS, DRAWINGS, AND NOTES.

ARCHITECT
ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM (P) 602.677.8372

ERWIN | ARCHITECTURE DEVELOPMENT

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN. ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE

<u>SELF-CERTIFIED ARCHITECT</u> ANDREWS DESIGN GROUP INC. DON ANDREWS JR. (E) DON@ADGARCH.NET (P) 480.894.3478

<u>CIVIL</u> 3 ENGINEERING DAN MANN, P.E. 6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM (P) 602.334.4387

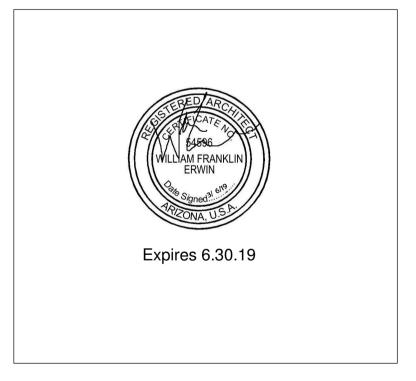
STRUCTURAL
UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM (P) 480.382.9768

PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200 PHOENIX, AZ 85020 (E) DAMEM@MPECONSULT.COM (P) 602.388.1716

<u>LANDSCAPE</u> 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 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 or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- 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. becs.: Product ID 3762, SHGC 0.35, [Bldg. Use 1 - Retail with office, 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 terior Wall 5: Wood-Framed, 24" o .c., [Bldg. Use 1 - Retail with 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 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 33, PF 0.38, [Bldg. Use 1 - Retail with office, print area, and support ace] (c)	96			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 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

# PLUMBING CONSTRUCTION NOTES

- EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED
- ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
- WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.
- 8. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.
- 9. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR
- 10. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES FOR SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- 11. VERTICAL STRAIGHT RUNS OR PVC DWV SHALL BE PROTECTED FROM EXPANSION AND CONTRACTION UTILIZING ONE OR MORE OF THE FOLLOWING METHODS: PROVIDE A MINIMUM OF 24 INCHES, 45 DEGREE OFFSETS EVERY 30 FEET.
- PROVIDE CERTIFIED AND LISTED EXPANSION FITTINGS AS MANUFACTURED BY CANPLAS INDUSTRIES, LTD., OR EQUAL, IN VERTICAL RUNS IN EXCESS OF 30 FEET PROVIDED THAT THEY ARE INSTALLED PER MANUFACTURER'S INSTALLATION
- 12. WHEN WATER PIPE AND SEWERS ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED: THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT BE LESS THAN SIX (6) FEET. EACH LINE SHALL BE LAID IN A SEPARATE
- TRENCH OR THE SPACE IN BETWEEN FILLED WITH COMPACT FILL. THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH. SAID WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
- WATER SERVICE SHALL BE COPPER TO A MINIMUM 10'-0" OUTSIDE OF BUILDING FOR ELECTRICAL GROUNDING PURPOSES.

PLUMBING LEGEND					
SYMBOL	ABBR.	DESCRIPTION			
	W	DRAIN OR WASTE PIPING			
	٧	VENT PIPING			
	CW	COLD WATER PIPING			
	HW	HOT WATER PIPING			
	HWR	HOT WATER RETURN PIPING			
	G	NATURAL GAS PIPING			
—_ LPG ——	LPG	LIQUIFIED PETROLEUM GAS PIPING			
— RDL ——	RDL	ROOF DRAIN LEADER			
— ODL ——	ODL	OVERFLOW DRAIN LEADER			
<u> </u>	Α	COMPRESSED AIR PIPING			
— по —	RO	REVERSE OSMOSIS WATER PIPING			
——F——	F	FIRE SPRINKLER PIPING			
<b>→</b> ▼ <b>→</b> ×−	GV	GATE VALVE			
<b>───</b>	GBV	GLOBE VALVE			
各格格	CV	CONTROL VALVE (TWO & THREE-WAY)			
—ф⊢ ⊣ <b></b> Б⊢	BFV	BUTTERFLY VALVE (MANUAL & MOTORIZED)			
ф—	BV	BALL VALVE			
7	CKV	CHECK VALVE			
 	BLV	BALANCE & FLOW CONTROL VALVE W/TAPS			
		NEEDLE VALVE			
\\ X MAV		MANUAL AIR VENT			
D T	AAV	AUTOMATIC AIR VENT (PIPE DRAIN TO F.S.)			
<del></del>	ITW	INSTRUMENT THERMOMETER WELL			
I	PP	PETE'S PLUG WITH P.T. ATTACHMENT			
¢ ¢	PG	PRESSURE GAUGE & COCK (STEAM SIPHON)			
<u>—</u>	H	THERMOMETER			
4×	ST	STRAINER W/FULL SIZE BLOW DOWN VALVE.			
——II——	FLG	FLANGE			
AB	_	REDUCERS: A = ECCENTRIC; B = CONCENTRIC			
יַלַי	_	GAS COCK, GAS STOP VALVE			
1 1	U	UNION			
-#	HB	HOSE BIBB			
-#	NFHB	NON-FREEZE HOSE BIB			
	FS	FLOOR SINK			
<u> </u>	FD	FLOOR DRAIN			
<u>Ø</u>	FC0	FLOOR CLEANOUT			
<u> </u>	SC0	SURFACE CLEANOUT			
	WCO	WALL CLEANOUT			
0	RD OFD	ROOF DRAIN			
<u> </u>	OFD VTR	OVERFLOW DRAIN			
		VENT THRU ROOF			
SW	SW D	SOFT WATER			
	POC	INDIRECT WASTE			
	TP	POINT OF CONNECTION BETWEEN NEW AND EXISTING TRAP PRIMER			
	AP	ACCESS PANEL			
	WHA	WATER HAMMER ARRESTOR			
	WITA	WATEN HAMMEN ARRESTOR			

AAV | AIR ADMITTANCE VALVE

# LOW FLOW REQUIREMENTS

ALL PLUMBING FIXTURES SHALL HAVE FLOW REDUCERS OR BE SO CONSTRUCTED TO MEET THE FOLLOWING REQUIREMENTS:

WATER CLOSET (TANK TYPE) WATER CLOSETS (FLOOR MOUNT-FLUSHMETER) SHOWER HEADS LAVATORY FAUCETS (PUBLIC) RESIDENTIAL KITCHEN SINK FAUCETS

RESIDENTIAL BAR SINK FAUCETS

LAVATORY FAUCETS (RESIDENTIAL)

1.6 GALLONS PER FLUSH 1.0 GALLONS PER FLUSH 3 GPM AT 80 PSI .5 GPM AT 80 PSI 2.5 GPM AT 80 PSI 2.5 GPM AT 80 PSI .5 GPM AT 80 PSI

1.6 GALLONS PER FLUSH

PUBLIC RESTROOMS: IN ADDITION TO THE MAXIMUM RATE OF FLOW, LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE OF THE METERING, SELF CLOSING TYPE.

# PIPE AND FITTINGS

SERVICE	PIPE	FITTINGS
SANITARY DRAIN, WASTE AND VENT, AND RAINWATER INTERIOR, ABOVE GRADE	CAST IRON, HUBLESS, SERVICE WEIGHT, CISPI 301	CAST IRON, WITH NEOPRENE GASKETED JOINTS & STAINLESS STEEL CLAMP— AND—SHIELD ASSEMBLIES.
WATER PIPING BELOW GRADE	TYPE "K" SOFT TEMPER COPPER TUBING	NO JOINTS PERMITTED BELOW FLOOR
ALL WATER PIPING ABOVE GRADE	TYPE "L" HARD DRAWN COPPER, ASTM B88	WROUGHT COPPER SOLDER TYPE CONFORMING TO ASME B16.22
NATURAL GAS PIPING ABOVE GRADE	SCHEDULE 40 BLACK STEEL PIPE	ASME B16.3 MALLEABLE IRON OR ASTM A234/A234M WROUGHT STEEL WELDING TYPE
SANITARY DRAIN, WASTE AND VENT, AND RAINWATER INTERIOR, BELOW GRADE WITHIN 5 FEET OF BUILDING	CAST IRON, HUBLESS, SERVICE WEIGHT, CISPI 301	CAST IRON, WITH NEOPRENE GASKETED JOINTS & STAINLESS STEEL CLAMP— AND—SHIELD ASSEMBLIES.
	PVC PIPE ASTMD2665 OR ASTM D3034	PVC FITTINGS, SOLVENT WELDED WITH ASTM D2564 SOLVENT CEMENT.

# FIELD VERIFICATION NOTES:

- 1. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED:
- A. EXACT PLACEMENT, SIZE AND INVERT ELEVATION OF ALL EXISTING WASTE PIPING.
- B. EXACT PLACEMENT AND SIZE OF ALL EXISTING COLD WATER PIPING.
- C. EXACT PLACEMENT AND SIZE OF ALL EXISTING VENT PIPING.
- 2. ALL REFERENCES ON THESE DRAWINGS TO EXISTING WASTE, WATER AND VENT PIPING IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- 3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- 4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

# PLUMBING FIXTURE SCHEDULE

- TANK TYPE WATER CLOSET (HANDICAPPED): AMERICAN STANDARD 215AA.104 "CADET PRO" 16-1/2" HIGH FLOOR MOUNTED, VITREOUS CHINA, ELONGATED BOWL, SIPHON JET BOWL, EVERCLEAN ANTIMICROBIAL SURFACE, 1.28 GPF CONSUMPTION, WHITE IN COLOR OR AS SELECTED BY ARCHITECT. PROVIDE AMERICAN STANDARD 5901.100SS WHITE OPEN FRONT SEAT WITH SELF-SUSTAINING CHECK HINGE WITHOUT COVER. SUPPLY: WATTS BV894012K 5/8"X 3/8"OD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE COMPRESSION ANGLE STOP WITH 12"FLEXIBLE RISER TUBE AND ESCUTCHEON.
- WALL HUNG LAVATORY (HANDICAPPED): AMERICAN STANDARD 0355.012 "LUCERNE", 20" X 18", VITREOUS CHINA, WALL HUNG LAVATORY WITH FRONT OVERFLOW. SELF-DRAINING DECK AREA WITH CONTOURED BACK AND SIDE SPLASH SHIFLDS AND CONCEALED WALL HANGER. SHALL INCLUDE 4TH HOLE DRILLING TO RIGHT FOR SOAP DISPENSER. SUPPLY FITTING: SYMMONS MODEL S-60-G-H 4" CENTER SET SLOW-CLOSING LAVATORY FAUCET, WITH BLADE HANDLE, 0.5 GPM FLOW RATE AND WATTS 629203C CAST BRASS DRAIN WITH INTEGRAL PERFORATED GRID AND 1-1/4" TAILPIECE. WATTS 519-173R 1-1/4" X 1-1/2" SEMI-CAST BRASS P-TRAP WITH CLEANOUT. PROVIDE WATTS LFBV894016K 5/8"X 3/8"OD LOW LEAD CHROME PLATED LOOSE KEY QUARTER TURN BALL VALVE STYLE COMPRESSION ANGLE STOPS WITH 16"FLEXIBLE RISER TUBES AND ESCUTCHEONS. CERTIFIED TO NSF/ANSI STANDARD 61-G SECTION 9.
  - INSULATION: PLUMBEREX 2003 "HANDY-SHIELD MAXX" UNDERSINK PROTECTIVE PIPE COVER ADA-CONFORMING, WHEELCHAIR ACCESSIBLE LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE COVERED WITH MOLDED, ANTI-MICROBIAL, UPC/IAPMO LISTED, ASTM E84-07/UL723 CLASS A COMPLIANCE. (COLOR SELECTED BY ARCHITECT).
- HOSE BIBB: "WOODFORD" MODEL 24P-3/4" ANTI-SIPHON VACUUM BREAKER. WALL FAUCET

# PLUMBING FIXTURE CONNECTION SCHEDULE

MA	₹K	DESCRIPTION	TRAP SIZE	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
<u>WC</u>	<u>:–1</u>	WATER CLOSET TANK TYPE	INTEGRAL	4"	2"	1/2"	ı	(HDCP)
Ŀ	<u>-1</u>	LAVATORY	1-1/2"	2"	1-1/2"	1/2"	1/2"	(WALL MOUNT)
HE	<u>-1</u>	HOSE BIBB	_	-	_	3/4"	1	W/ VACUUM BREAKER

# II INSTANTANEOUS WATER HEATER SCHEDULE

	MARK	MODEL	TYPE		ELECTRIC	AL	TEMP. RISE	REMARKS
_	MARK	MODEL	TIPE	KW	VOLTS	PHASE	1	REMARKS
	<u>IWH-1&amp;2</u>	CHRONOMITE M-30L	DOMESTIC HOT WATER	3.6	120	1	57° F.	SET TEMPERATURE FOR 105°

F.U.(TANK)

3–7 8-19 F.U.(F.V.)

# WATER CALCULATION - UPC 2018

FIXTURE NAME WATER CLOSET (F.T.)		NO. F.I 2 x 2.	.5 =
LAVATORY HOSE BIBB		2 x 1. 2 x 2.	.0 = .5 =
TOTAL FIXTURE UNITS			1
12 FIXTURE UNITS = 9 GALLONS PER MINUTE (C	S.P.M.)		
PIPE LENGTH TAP TO METER			30 FT.
PIPE LENGTH METER TO LAST FIXTURE VERTICAL PIPE LENGTH TO HIGHEST FIXTURE			185 FT. 13 FT.
TOTAL PIPE LENGTH TO HIGHEST PIXTORE			228 FT.
FITTING LOSS (25%)			57 FT.
TOTAL DEVELOPED LENGTH			285 FT.
WATER PIPE SIZING CRITERIA			
STREET PRESSURE (FIELD VERIFY)			60.00 PS
WATER METER LOSS (EXISTING 5/8" METER)(FIEL	D VERIFY)		8.00 PS
STATIC LOSS (13' x 0.43) PRESSURE RESERVED FOR FIXTURES			5.59 PS 20.00 PS
REDUCED PRESSURE BACKFLOW PREVENTER (RPE	BP)		12.00 PS
PRESSURE AVAILABLE FOR PIPING	,		14.41 PS
	MAXIMUM PSI DROP ALLOWABLE PER 100 FEET PIPE LENGTH		
BRANCH PIPE SIZING CHART FOR 5 PSI LOSS			

3–6

SELF CERTIFIED BY: DATE: 03/06/2019 DONALD ANDREWS - 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.

PIPE SIZE



ALL CONCEPTS, DESIGNS, AND DATA INDICATED ON THESE DOCUMENTS ARE THE SOLE PROPERTY OF THE PETERSON ASSOC ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

SDEV #1800276 PAPP #1806619 PRLC QS Q16-36

KIVA #18-1372

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE PLANS, DRAWINGS, AND NOTES.

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN, ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT PRIOR AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC. RETAINS OWNERSHIP OF ALL DRAWINGS.

#### CONTACTS:

SUPERLUXE SCREEN PRINTING JONATHAN PITT (E) JON@THEWANDERIST.COM (P) 480.247.6653

ARCHITECT ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM

SELF-CERTIFIED ARCHITECT ANDREWS DESIGN GROUP INC. DON ANDREWS JR. (E) DON@ADGARCH.NET

(P) 602.677.8372

(P) 480.894.3478

3 ENGINEERING DAN MANN, P.E. 6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM

(P) 602.334.4387 STRUCTURAL
UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202

(E) DGRAPSAS@UNITEDSTR.COM (P) 480.382.9768 PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200

(P) 602.388.1716 JOEL THOMAS (E) JTHOMAS@NORRIS-DESIGN.COM

(E) DAMEM@MPECONSULT.COM

# SHEET ISSUE/REV:

PHOENIX. AZ 85020

(P) 512.900.7888

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



Owner Proi. Nam

JONATHAN PITT WANDERIST OFFICE & RETAIL

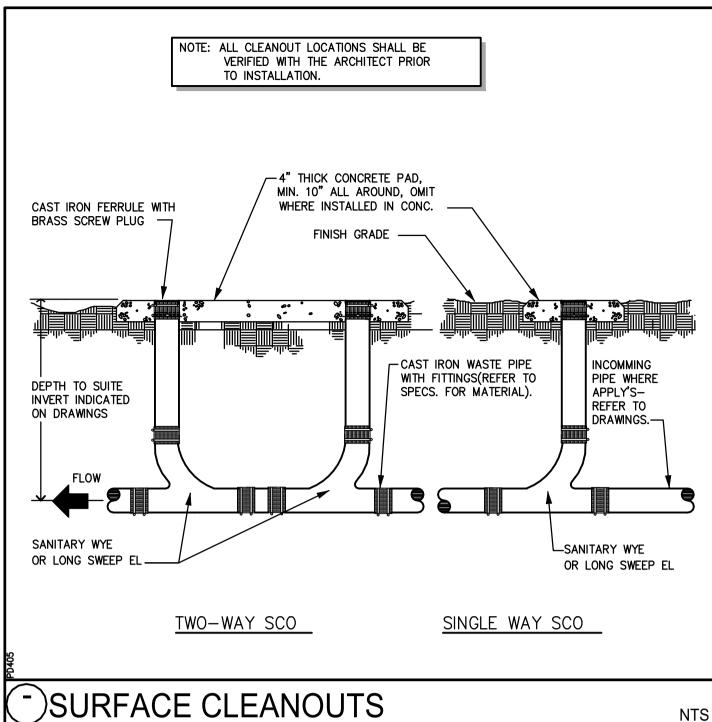
# PLUMBING SCHEDULES & NOTES

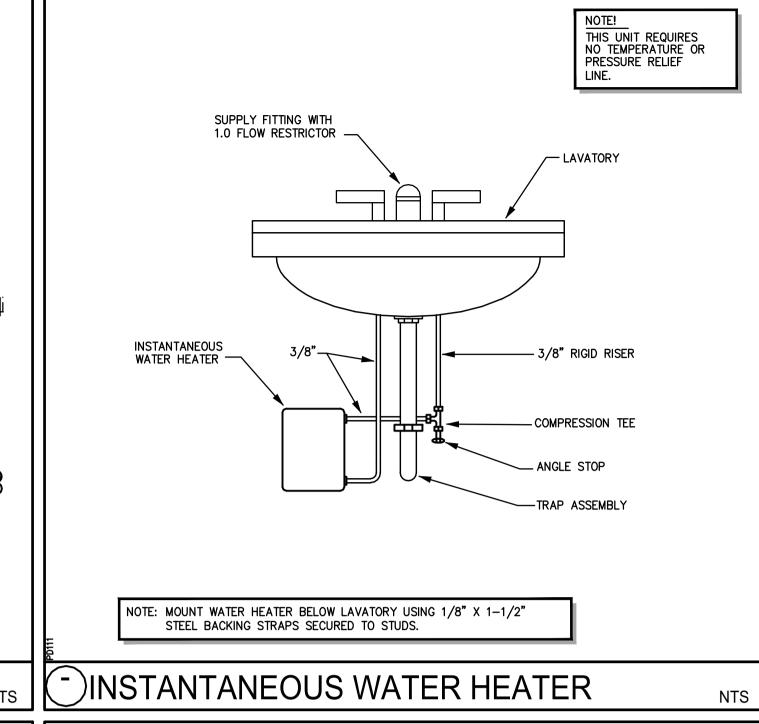
10/08/18 Date

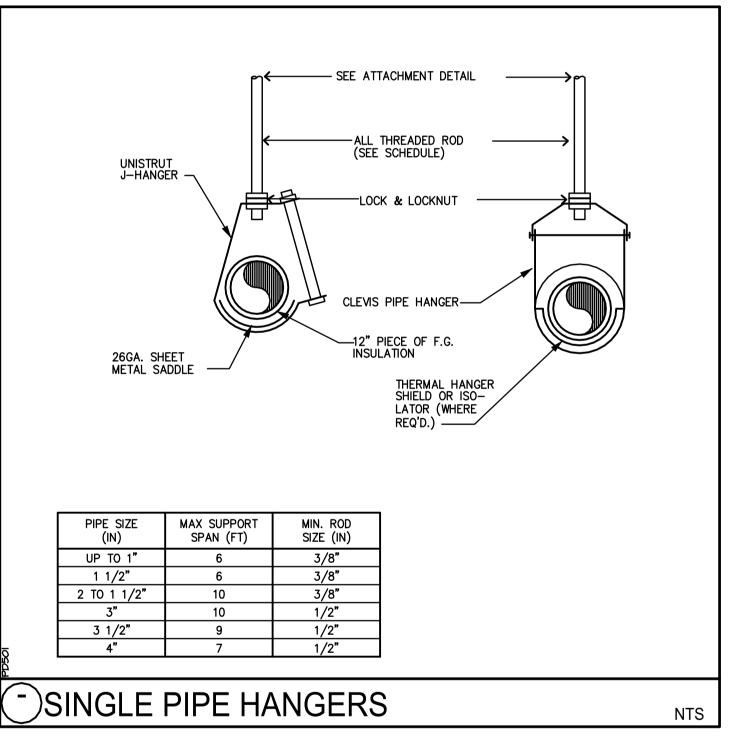
P001

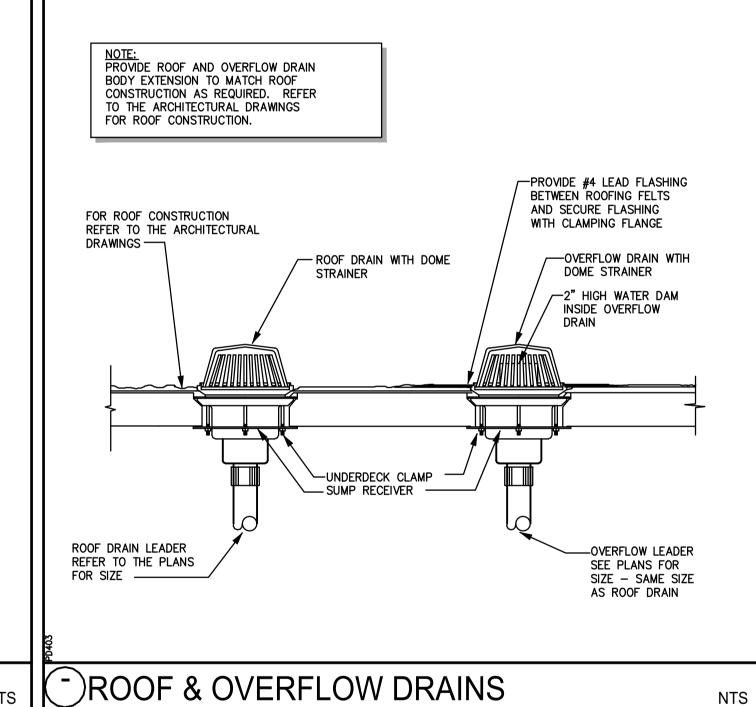
Scale

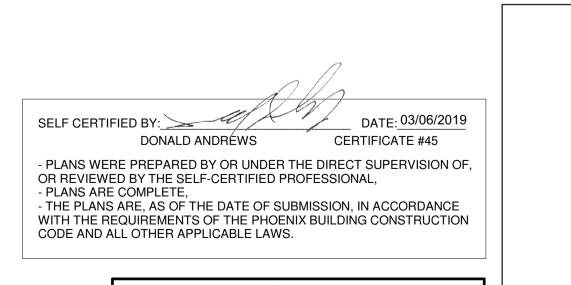
**AS SHOWN** 

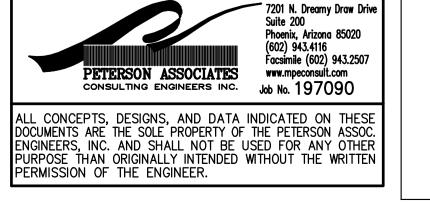












KIVA #18-1372 SDEV #1800276 PAPP #1806619 PRLC QS Q16-36

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE PLANS, DRAWINGS, AND NOTES.

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN. ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT PRIOR AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC. RETAINS OWNERSHIP OF ALL DRAWINGS.

### **CONTACTS:**

SUPERLUXE SCREEN PRINTING JONATHAN PITT

(E) JON@THEWANDERIST.COM (P) 480.247.6653

ARCHITECT
ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM (P) 602.677.8372

SELF-CERTIFIED ARCHITECT ANDREWS DESIGN GROUP INC. DON ANDREWS JR.

(E) DON@ADGARCH.NET (P) 480.894.3478 3 ENGINEERING

DAN MANN, P.E. 6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM (P) 602.334.4387

STRUCTURAL UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10

MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM (P) 480.382.9768

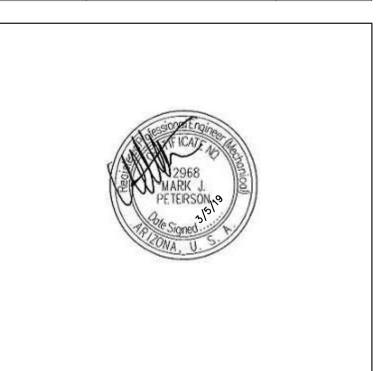
PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200 PHOENIX, AZ 85020 (E) DAMEM@MPECONSULT.COM (P) 602.388.1716

LANDSCAPE NORRIS DESIGN JOEL THOMAS (E) JTHOMAS@NORRIS-DESIGN.COM

# SHEET ISSUE/REV:

(P) 512.900.7888

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

# PLUMBING DETAILS

10/08/18 Date

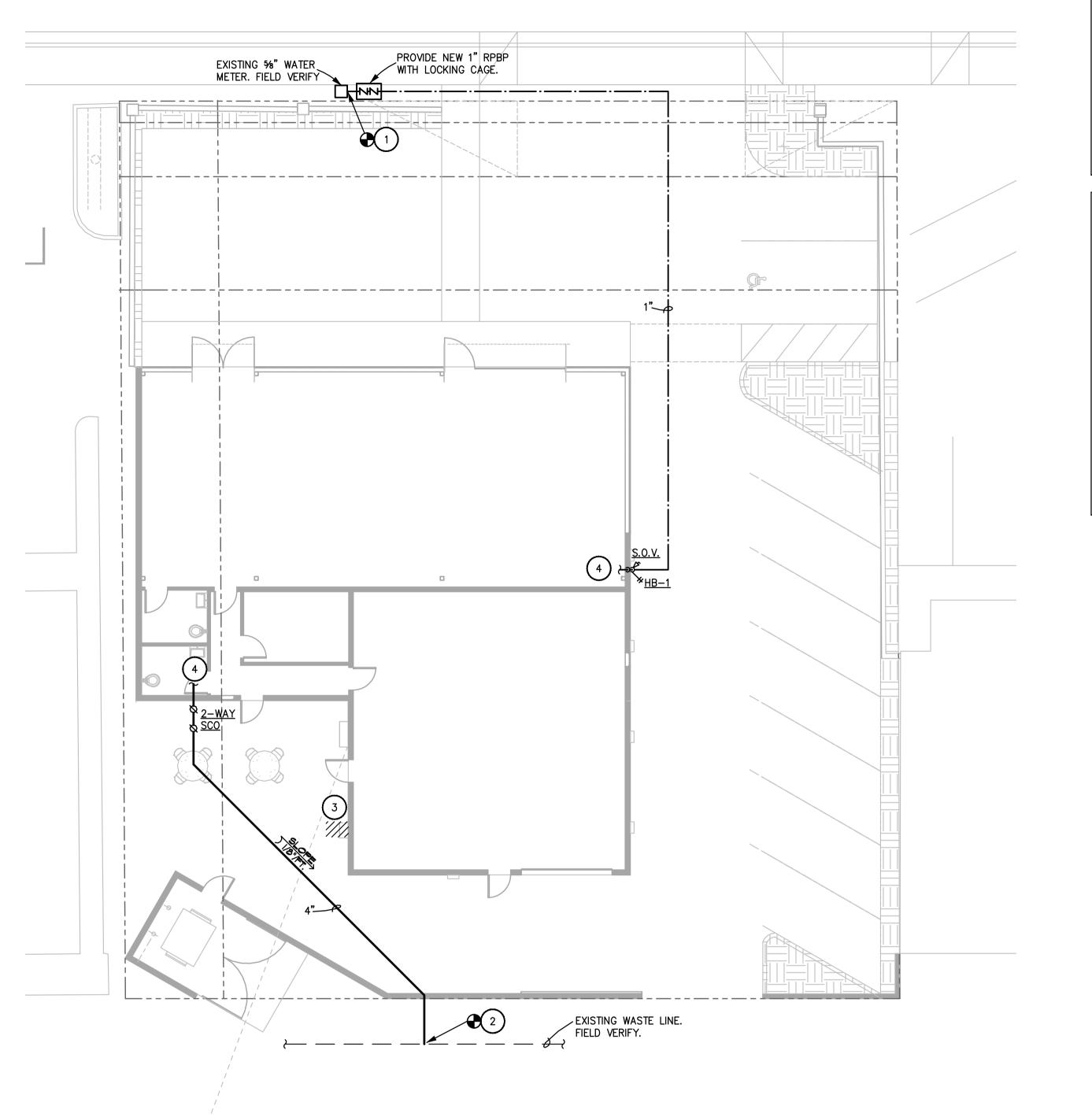
P002

AS SHOWN Scale

Date

P100

**AS SHOWN** 



- PRVIDE NEW 1" RPBP WITH LOCKING CAGE. FIELD VERIFY EXACT
- SERVICE LINE FOR FUTURE CONNECTION.

# FIELD VERIFICATION NOTES:

- . THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID.
- A. EXACT PLACEMENT, SIZE AND INVERT ELEVATION OF ALL EXISTING
- B. EXACT PLACEMENT AND SIZE OF ALL EXISTING COLD WATER PIPING.
- 2. ALL REFERENCES ON THESE DRAWINGS TO EXISTING WASTE, WATER AND VENT PIPING IS FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL THESE ITEMS PRIOR TO BID AND INCLUDE IN HIS BID ANY AND ALL AMOUNTS REQUIRED TO
- 3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.

# **# KEY NOTES:**

- POINT OF CONNECTION, AND SIZE. PRIOR TO ANY WORK.
- 2. EXTEND AND CONNECT 4" WASTE LINE TO EXISTING WASTE MAIN IN ALLEY. FIELD VERIFY EXACT POINT OF CONNECTION, SIZE, FLOW, AND INVERT ELEVATION. PRIOR TO ANY WORK.
- 3. REMOVE EXISTING GAS METER. STUB EXISTING SOUTHWEST GAS
- 4. SEE SHEET P200 FOR CONTINUATION.

- THE FOLLOWING ITEMS SHALL BE VERIFIED:
- WASTE PIPING.
- C. EXACT PLACEMENT AND SIZE OF ALL EXISTING VENT PIPING.
- ACCOMMODATE EXISTING CONDITIONS.
- 4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID

- EXTEND AND CONNECT 1" CW LINE TO EXISTING 5%" WATER METER.
  - DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT PRIOR AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC. RETAINS OWNERSHIP OF ALL DRAWINGS.

# CONTACTS:

SUPERLUXE SCREEN PRINTING JONATHAN PITT

PLANS, DRAWINGS, AND NOTES.

(E) JON@THEWANDERIST.COM (P) 480.247.6653

ARCHITECT ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM

ERWIN | ARCHITECTURE DEVELOPMENT

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT

THAN ORIGINALLY DRAWN. ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE

(P) 602.677.8372 SELF-CERTIFIED ARCHITECT ANDREWS DESIGN GROUP INC. DON ANDREWS JR.

(E) DON@ADGARCH.NET (P) 480.894.3478

<u>CIVIL</u> 3 ENGINEERING DAN MANN, P.E. 6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM (P) 602.334.4387

STRUCTURAL UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM

(P) 480.382.9768 PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200

(P) 602.388.1716 <u>LANDSCAPE</u> NORRIS DESIGN JOEL THOMAS (E) JTHOMAS@NORRIS-DESIGN.COM

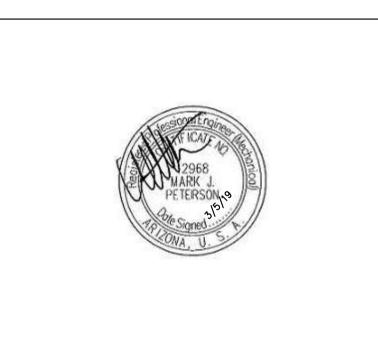
(E) DAMEM@MPECONSULT.COM

# SHEET ISSUE/REV:

PHOENIX, AZ 85020

(P) 512.900.7888

OFFICE TO	OOL, REV.	
NO.	DESCRIPTION	DATE
-	PRE-APP MTG	10.10.18
-	MINOR SITE PLAN	01.09.19
-	CITY SUBMITTAL	03.06.19



KIVA #18-1372

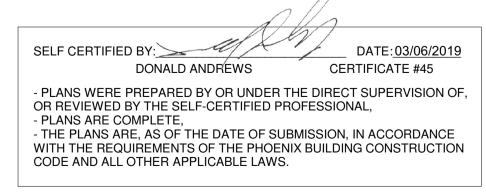
PRLC QS Q16-36

SDEV #1800276 PAPP #1806619 WANDERIST OFFICE & RETAIL

10/08/18

Scale







ALL CONCEPTS, DESIGNS, AND DATA INDICATED ON THESE DOCUMENTS ARE THE SOLE PROPERTY OF THE PETERSON ASSOC. ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

WANDERIST OFFICE & RETAIL

10/08/18

DESCRIPTION

PRE-APP MTG

MINOR SITE PLAN

CITY SUBMITTAL

Date

KIVA #18-1372

PRLC QS Q16-36

SDEV #1800276 PAPP #1806619

7201 N. Dreamy Draw Drive

Suite 200 Phoenix, Arizona 85020 (602) 943.4116 Facsimile (602) 943.2507

PETERSON ASSOCIATES
CONSULTING ENGINEERS INC.

www.mpeconsult.com
Job No. 197090

ALL CONCEPTS, DESIGNS, AND DATA INDICATED ON THESE DOCUMENTS ARE THE SOLE PROPERTY OF THE PETERSON ASSOC. ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

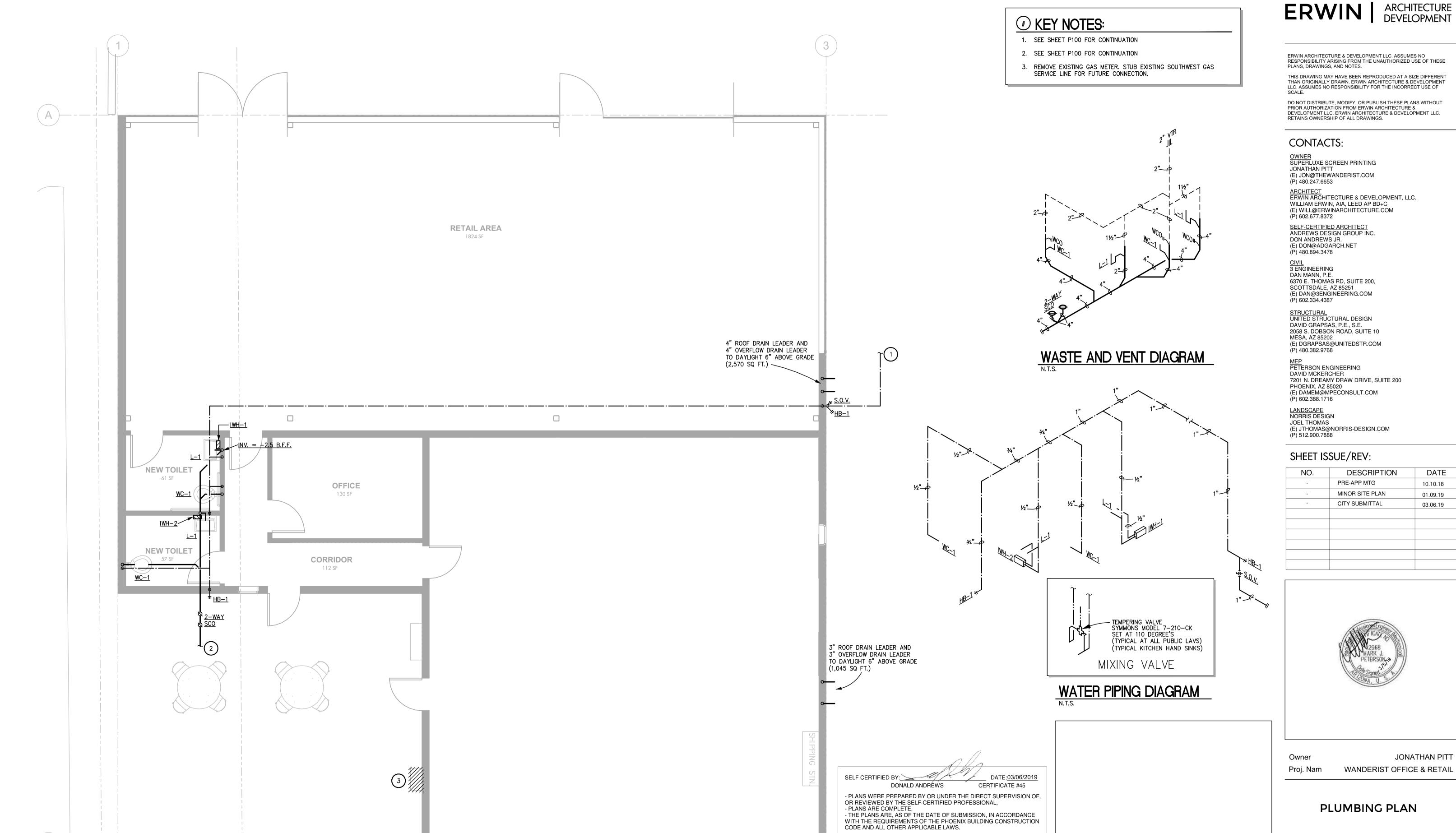
P200

AS SHOWN Scale



PLUMBING PLAN

1/4"=1'-0"



SELF CERTIFIED BY:

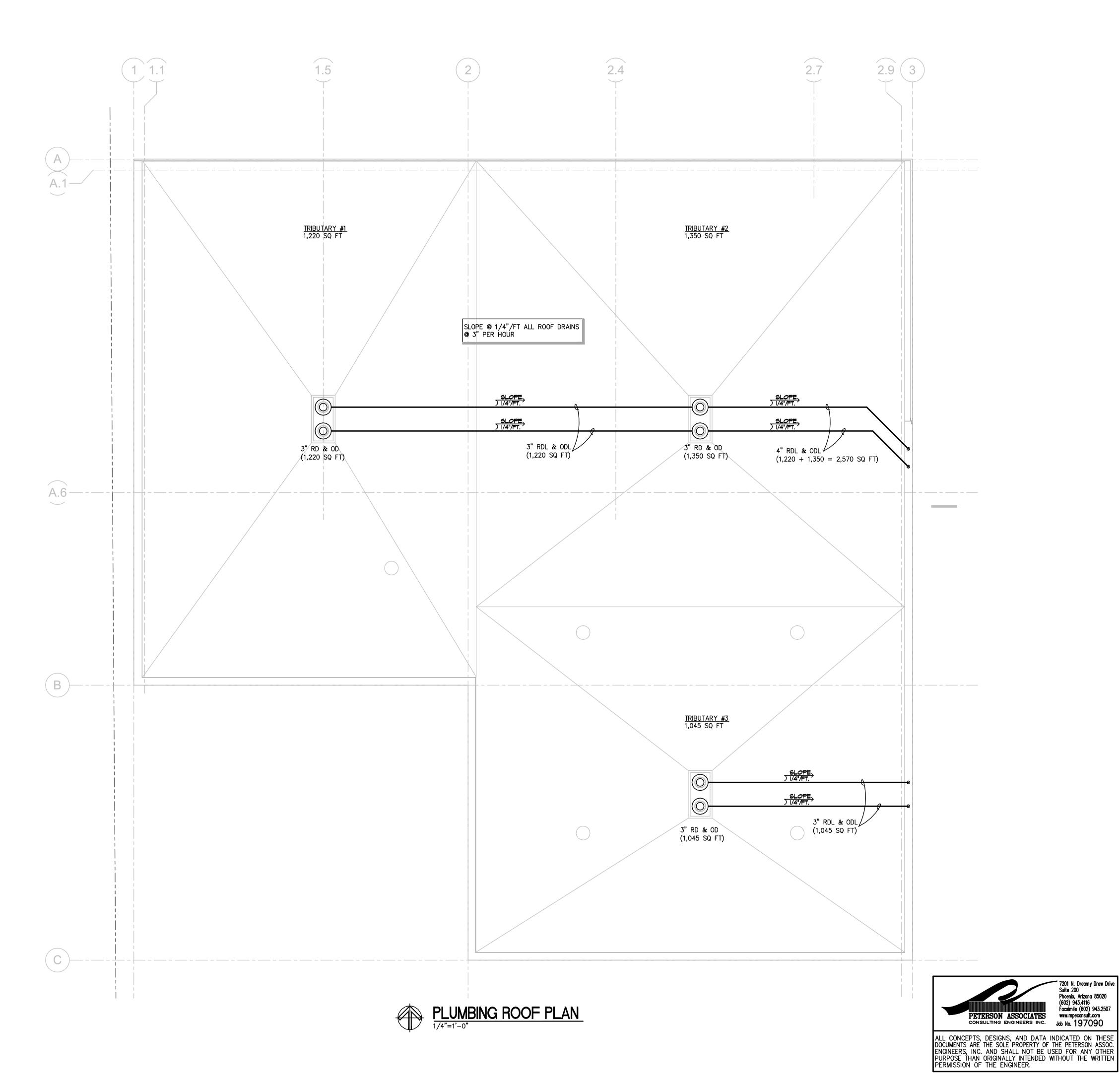
- PLANS ARE COMPLETE,

DONALD ANDREWS

- PLANS WERE PREPARED BY OR UNDER THE DIRECT SUPERVISION OF, OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,

- 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.

Scale



# ERWIN | ARCHITECTURE DEVELOPMENT

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE PLANS, DRAWINGS, AND NOTES.

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN. ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT PRIOR AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC. RETAINS OWNERSHIP OF ALL DRAWINGS.

# CONTACTS:

OWNER SUPERLUXE SCREEN PRINTING JONATHAN PITT

(E) JON@THEWANDERIST.COM (P) 480.247.6653

ARCHITECT ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM

SELF-CERTIFIED ARCHITECT ANDREWS DESIGN GROUP INC. DON ANDREWS JR.

(P) 602.677.8372

(E) DON@ADGARCH.NET (P) 480.894.3478

<u>CIVIL</u> 3 ENGINEERING DAN MANN, P.E. 6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM

(P) 602.334.4387 STRUCTURAL
UNITED STRUCTURAL DESIGN DAVID GRAPSAS, P.E., S.E. 2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM

(P) 480.382.9768 PETERSON ENGINEERING DAVID MCKERCHER 7201 N. DREAMY DRAW DRIVE, SUITE 200 PHOENIX, AZ 85020

<u>LANDSCAPE</u> NORRIS DESIGN JOEL THOMAS (E) JTHOMAS@NORRIS-DESIGN.COM (P) 512.900.7888

(E) DAMEM@MPECONSULT.COM

# SHEET ISSUE/REV:

(P) 602.388.1716

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

KIVA #18-1372

PRLC QS Q16-36

SDEV #1800276 PAPP #1806619

10/08/18

P300

AS SHOWN

6

#### **SECTION 22 0010**

#### PLUMBING SHEET SPECIFICATION (NEW BLDG - NAT GAS) PART 1 GENERAL

#### 1.01 SCOPE OF WORK

- A. Perform all labor and furnish all materials, fixtures and equipment required to provide a complete plumbing installation as indicated on the drawings. Include furnishing and installing all miscellaneous items required for the operation of the systems, whether specifically called for or not. Connect all equipment furnished under other trades as required. Determine in advance the shut-down of existing utilities.
- 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.

#### 1.03 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 pipe, 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 structural systems.
- B. Any discrepancies which may affect the Contractor's bid shall be brought to the attention of the Engineer and Architect for direction.
- C. During construction, coordinate use of site and facilities and work sequence to meet the project requirements.
- D. The Contractor shall coordinate with Electrical Subcontractor to insure proper electrical hookup for all plumbing equipment.
- E. The Contractor shall coordinate with Mechanical Subcontractor to insure gas hookup for gas fired equipment.
- F. Final location, quantity and type of fixtures shall be determined from the Architectural plans.
- G. Final positioning of water heaters shall be per manufacturers installation instructions.

#### 1.04 SUBMITTALS

- A. See Architectural Administrative Requirements, for submittal procedures B. Product Data: Provide data on pipe materials, pipe fittings, plumbing fixtures, plumbing specialties, valves, insulation, and accessories. Provide manufacturers' catalog information. Indicate valve data and
- C. Project Record Documents: Provide two (2) sets of Record Documents and two (2) bound sets of all operation manuals, diagrams, service contracts, guarantees, etc. for Owner's use. Record actual locations of all piping, valves or 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 by the Engineer.
- F. Mark dimensions and values in units to match those specified.
- G. Clearly identify specific components on multi-item equipment or data H. 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. . 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.

# 1.05 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 time.

# 1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of experience
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.
- C. Valves: Manufacturer's name and pressure rating marked on valve body. D. Welding Materials and Procedures: Conform to ASME (BPV IX) and applicable state labor regulations.
- E. Welders Certification: In accordance with ASME (BPV IX).
- F. Identify pipe with marking including size, ASTM material classification, ASTM specification, potable water certification, water pressure rating.
- 1.07 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.
- B. Conform to applicable code for installation of backflow prevention devices. C. Provide certificate of compliance from authority having jurisdiction indicating approval of installation of backflow prevention devices.

# 1.08 DELIVERY, STORAGE, AND PROTECTION

- A. Accept valves on site in shipping containers with labeling in place. Inspect for damage.
- B. Provide temporary protective coating on cast iron and steel valves. C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
- D. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed

# 1.09 WARRANTY

- 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. 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 drawings 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.

#### 2.02 SANITARY SEWER PIPING, BURIED WITHIN 5 FEET OF BUILDING

- A. Cast Iron Pipe: CISPI 301, hubless. Fittings: Cast iron.
- 2. Joints: CISPI 310, neoprene gasket and stainless steel clamp and shield assemblies
- B. PVC Pipe: ASTM D 2665 or ASTM D 3034.
- Fittings: PVC.
- 2. Joints: Solvent welded, with ASTM D 2564 solvent cement. 2.03 SANITARY SEWER PIPING, ABOVE GRADE
- A. Cast Iron Pipe: CISPI 301, hubless, service weight.
- Fittings: Cast iron.
- clamp-and-shield assemblies.

#### 2.04 WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. Copper Pipe: ASTM B 42, hard drawn. Type K. 1. Fittings: ASME B16.18, cast copper alloy or ASME B16.22 wrought copper and bronze.

2. Joints: CISPI 310, neoprene gaskets and stainless steel

2. Joints: ASTM B 32, alloy Sn95 solder.

# 2.05 WATER PIPING, ABOVE GRADE

- A. Copper Tube: ASTM B 88 (ASTM B 88M), Type L (B), Drawn (H). 1. Fittings: ASME B16.18, cast copper alloy or ASME B16.22, wrought copper and bronze.
- 2. Joints: ASTM B 32, alloy Sn95 solder.

#### 2.06 STORM WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING

- A. Cast Iron Pipe: CISPI 301, hubless, service weight. Fittings: Cast iron.
- 2. Joints: Neoprene gaskets and stainless steel clamp-and-shield
- B. PVC Pipe: ASTM D 2665 or ASTM D 3034.
- Fittings: PVC.
- 2. Joints: Solvent welded, with ASTM D 2564 solvent cement. 2.07 STORM WATER PIPING. ABOVE GRADE
- A. Cast Iron Pipe: CISPI 301, hubless, service weight.
- Fittings: Cast iron. 2. Joints: Neoprene gaskets and stainless steel clamp-and-shield

# 2.08 NATURAL GAS PIPING, BURIED WITHIN 5 FEET OF BUILDING

- A. Steel Pipe: ASTM A 53/A 53M Schedule 40 black.
- 1. Fittings: ASTM A 234/A 234M, wrought steel welding type, with AWWA C105/A21.5 polyethylene jacket or double layer, half-lapped 10 mil (0.25 mm) polyethylene tape.
- 2. Joints: ASME B31.9, welded.
- 3. Jacket: AWWA C105/A21.5 polyethylene jacket or double layer, half-lapped 10 mil polyethylene tape.

#### 2.09 NATURAL GAS PIPING, ABOVE GRADE

- A. Steel Pipe: ASTM A 53/A 53M Schedule 40 black. 1. Fittings: ASME B16.3, malleable iron, or ASTM A 234/A 234M.
- wrought steel welding type. 2. Joints: NFPA 54, threaded or welded to ASME B31.9.

#### 2.10 FLANGES, UNIONS, AND COUPLINGS

- A. Unions for Pipe Sizes 2 inches and Under: 1. Ferrous pipe: Class 150 malleable iron threaded unions.
- 2. Copper tube and pipe: Class 150 bronze unions with soldered joints. B. Flanges for Pipe Size Over 2 inches:
- 1. Ferrous pipe: Class 150 malleable iron threaded or forged steel slip-on flanges; preformed neoprene gaskets.
- 2. Copper tube and pipe: Class 150 slip-on bronze flanges; preformed neoprene gaskets.
- C. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier. 2.11 PIPE HANGERS AND SUPPORTS

# A. Plumbing Piping - Drain, Waste, and Vent:

- Conform to ASME B31.9.
- 2. Hangers for Pipe Sizes 1/2 Inch to 1-1/2 Inches: Malleable iron, adjustable swivel, split ring.
- 3. Hangers for Pipe Sizes 2 Inches and Over: Carbon steel, adjustable,
- 4. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
- 5. Wall Support for Pipe Sizes to 3 Inches: Cast iron hook. 6. Wall Support for Pipe Sizes 4 Inches and Over: Welded steel bracket
- and wrought steel clamp. 7. Vertical Support: Steel riser clamp.
- 8. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor
- flange, and concrete pier or steel support. 9. Copper Pipe Support: Carbon steel ring, adjustable, copper plated.
- B. Plumbing Piping Water:
- Conform to ASME B31.9. 2. Hangers for Pipe Sizes 1/2 Inch to 1-1/2 Inch: Malleable iron, adjustable swivel, split ring.
- 3. Hangers for Cold Pipe Sizes 2 Inches and Over: Carbon steel, adjustable, clevis. 4. Hangers for Hot Pipe Sizes 2 Inches to 4 Inches: Carbon steel,
- adjustable, clevis. 5. Multiple or Trapeze Hangers: Steel channels with welded supports or
- spacers and hanger rods. 6. Multiple or Trapeze Hangers for Hot Pipe Sizes 6 Inches and Over: Steel channels with welded supports or spacers and hanger rods, cast
- 7. Wall Support for Pipe Sizes to 3 Inches: Cast iron hook.
- 8. Wall Support for Pipe Sizes 4 Inches and Over: Welded steel bracket and wrought steel clamp.
- 9. Vertical Support: Steel riser clamp.
- 10. Floor Support for Cold Pipe: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.

11.Floor Support for Hot Pipe Sizes to 4 Inches: Cast iron

or steel support 12. Copper Pipe Support: Carbon steel ring, adjustable, copper

adjustable pipe saddle, locknut, nipple, floor flange, and concrete pier

# 2.12 BALL VALVES

A. Manufacturers: Apollo, Nibco, Milwaukee Valve Company B. Construction, Up to and including 1 Inch (25 mm): MSS SP-110, Class 150, 400 psi (2760 kPa) CWP, bronze, two piece body, chrome plated brass ball, full port, teflon seats and stuffing box ring, blow-out proof stem, lever handle, solder or threaded ends.

C. Construction, 1-1/2 Inch (38 mm) to 3 Inches (75 mm): MSS SP-110, Class 150, 400 psi (2760 kPa) CWP, bronze, two piece body, chrome plated brass ball, standard port, teflon seats and stuffing box ring, blow-out proof stem, lever handle, solder or threaded ends.

#### 2.13 BUTTERFLY VALVES

- A. Manufacturers: Crane Valve, Milwaukee Valve Company B. Construction 4 Inch (100 mm) and Larger: MSS SP-67, 200 psi (1380 kPa) CWP, cast or ductile iron body, nickel-plated ductile iron disc, resilient replaceable EPDM seat, wafer ends, extended neck, 10 position
- lever handle 2.14 FLOW CONTROLS
- A. Manufacturers: Griswold Controls
- B. Construction: Class 125, Brass or bronze body with union on inlet, temperature and pressure test plug on inlet, blowdown/backflush drain.
- C. Calibration: Control flow within 5 percent of selected rating, over operating pressure range of 10 times minimum pressure required for control, maximum minimum pressure.

#### 2.15 SWING CHECK VALVES

C. Over 2 Inches (50 mm):

- A. Manufacturers: Nibco, Milwaukee Valve Company B. Up to 2 Inches (50 mm):
- 1. MSS SP-80, Class 125, bronze body and cap, bronze swing disc with rubber seat, solder or threaded ends.
- 1. MSS SP-71, Class 125, iron body, bronze swing disc, renewable disc seal and seat, flanged or grooved ends.

# 2.16 SPRING LOADED CHECK VALVES

A. Manufacturers: Crane Valve, Milwaukee Valve Company B. Class 125, iron body, bronze trim, stainless steel springs, bronze disc.

#### Buna N seals, wafer style ends. 2.17 WATER PRESSURE REDUCING VALVES

- A. Manufacturers: Amtrol. Cla-Val. Watts B. Up to 2 Inches:
- 1. MSS SP-80, bronze body, stainless steel and thermoplastic internal parts, fabric reinforced diaphragm, strainer, threaded double union

#### C. Over 2 Inches: 1. MSS SP-85, cast iron body, bronze fitted, elastomeric diaphragm and

seat disc, flanged.

- 2.18 RELIEF VALVES A. Temperature and Pressure Relief:
- 1. Manufacturers: Cla-Val, Henry Valve, Watts
- 2. AGA Z21.22 certified, bronze body, teflon seat, stainless steel stem and springs, automatic, direct pressure actuated, temperature relief maximum 210 degrees F, capacity ASME (BPV IV) certified and

#### 2.19 CLEANOUTS

gasketed cover

- A. Manufacturers: Jay R. Smith, Josam, Zurn
- B. Cleanouts at Exterior Surfaced Areas:
- 1. Round cast nickel bronze access frame and non-skid cover. Class 150, threaded bronze body 300 psi (2070 kPa) CWP, Y pattern with 1/32 inch (0.8 mm) stainless steel perforated screen.
- C. Cleanouts at Exterior Unsurfaced Areas: 1. Line type with lacquered cast iron body and round epoxy coated
- D. Cleanouts at interior Finished Floor Areas: 1. Lacquered cast iron body with anchor flange, threaded top assembly
- and round gasketed scored cover in service areas and gasketed depressed cover to accept floor finish in finished floor areas.
- E. Cleanouts at Interior Finished Wall Areas: 1. Line type with lacquered cast iron body and round epoxy coated gasketed cover, and round stainless steel access cover secured with
- F. Cleanouts at Interior Unfinished Accessible Areas: Calked or threaded type. Provide bolted stack cleanouts on vertical rainwater leaders.

# 2.20 WATER HAMMER ARRESTORS

- A. Manufacturers: Jay R. Smith, Josam, Zurn B. Water Hammer Arrestors:
- 1. Copper construction bellows type sized in accordance with PDI-WH 201, precharged suitable for operation in temperature range; 34 to 250 degrees F and maximum 150 psi working pressure.

# 2.21 PIPE INSULATION

- A. Glass Fiber
- 1. Manufacturers: Knauf, Johns Manville, Owens Corning 2. Insulation: ASTM C 547; rigid molded, noncombustible. a. 'K' ('Ksi') value: ASTM C 177, 0.24 at 75 degrees F (0.035 at 24
- degrees C). b. Maximum service temperature: 850 degrees F (454 degrees C).
- c. Maximum moisture absorption: 0.2 percent by volume. 3. Insulation: ASTM C 547; semi-rigid, noncombustible, end grain adhered to jacket.
- a. 'K' ('Ksi') value: ASTM C 177, 0.24 at 75 degrees F (0.035 at 24 degrees C). b. Maximum service temperature: 650 degrees F (343 degrees C). c. Maximum moisture absorption: 0.2 percent by volume.

4. Vapor Barrier Jacket: White kraft paper with glass fiber yarn, bonded

- to aluminized film, secured with self sealing longitudinal laps and butt strips or AP jacket with outward clinch expanding staples coated with vapor barrier mastic as needed. B. Surface Burning Characteristics: Flame spread/Smoke developed index
- of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 255, or UL 723. C. Insulate all hot water supply and return piping with 1 inch insulation for pipe sizes under 1-1/2". Insulate all hot water supply and return piping
- with 1-1/2 inch insulation for pipe sizes of 1-1/2" and over. D. Insulate fittings, joints, and valves with insulation of like material and thickness as adjoining pipe. Finish with glass cloth and adhesive or PVC

#### PART 3 EXECUTION 3.01 PREPARATION

fitting covers.

A. Ream pipe and tube ends. Remove burrs. B. Remove scale and dirt, on inside and outside, before assembly.

#### C. Prepare piping connections to equipment with flanges or unions. 3.02 INSTALLATION

A. Drawings (plans, schematics and diagrams) indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing and other design considerations. Install piping as indicated, except where deviations to layout are approved on coordination drawings. B. Install in accordance with manufacturer's instructions.

- C. Provide non-conducting dielectric connections wherever jointing dissimilar
- D. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.
- E. Install piping to maintain headroom, conserve space, and not interfere with use of space.
- F. Group piping whenever practical at common elevations.
- G. Install piping to allow for expansion and contraction without stressing pipe, ioints, or connected equipment.
- H. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.
- I. Provide access where valves and fittings are not exposed. J. All vent piping penetrating roofed areas to maintain 10'-0" from all air
- K. Combine vents where possible to minimize number of roof penetrations. L. Install vent piping penetrating roofed areas to maintain integrity of roof
- M. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding. N. Provide support for utility meters in accordance with requirements of utility
- O. Install valves with stems upright or horizontal, not inverted. P. Pipe vents from gas pressure reducing valves to outdoors and terminate
- in weatherproof hood. Q. Install water piping to ASME B31.9.
- R. Sleeve pipes passing through partitions, walls and floors.
- S. Pipe Hangers and Supports: 1. Install in accordance with ASME B31.9.
- Support horizontal piping as scheduled. 3. Install hangers to provide minimum 1/2 inch (15 mm) space between finished covering and adjacent work.
- 4. Place hangers within 12 inches (300 mm) of each horizontal elbow. 5. Use hangers with 1-1/2 inch (40 mm) minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
- 6. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
- 7. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers. 8. Provide copper plated hangers and supports for copper piping.
- spaces are not considered exposed. 10. Provide hangers adjacent to motor driven equipment with

supports located in crawl spaces, pipe shafts, and suspended ceiling

9. Prime coat exposed steel hangers and supports. Hangers and

- vibration isolation. 11. Support cast iron drainage piping at every joint.
- T. Pipe Hanger Spacing:
- Metal Piping: a. Pipe size: 1/2 inches (15 mm) to 1-1/4 inches (32 mm):
- 1) Maximum hanger spacing: 6.5 ft (2 m). 2) Hanger rod diameter: 3/8 inches (9 mm). b. Pipe size: 1-1/2 inches (40 mm) to 2 inches (50 mm):
- 1) Maximum hanger spacing: 10 ft (3 m). 2) Hanger rod diameter: 3/8 inch (9 mm).
- c. Pipe size: 2-1/2 inches (65 mm) to 3 inches (75 mm): 1) Maximum hanger spacing: 10 ft (3 m)
- 2) Hanger rod diameter: 1/2 inch (13 mm). d. Pipe size: 4 inches (100 mm) to 6 inches (150 mm): 1) Maximum hanger spacing: 10 ft (3 m).
- 2) Hanger rod diameter: 5/8 inch (15 mm). U. Encase exterior cleanouts in concrete flush with grade. V. Install floor cleanouts at elevation to accommodate finished floor.

W. Install water hammer arrestors complete with accessible isolation valve

- on hot and cold water supply piping to each group of fixtures. X. All piping passing through walls, floors and ceilings that are fire rated must be adequately sealed. The Contractor has the responsibility of reviewing the Architectural Drawings and determining the location of all
- Z. Provide chrome plated rigid or flexible supplies to fixtures with stops, reducers, and escutcheons.
- AA.Install components level and plumb. AB. Seal fixtures to wall and floor surfaces with sealant, color to match
- and openings before rough-in and installation. AD. Adjust stops or valves for intended water flow rate to fixtures without splashing, noise, or overflow. AE. At the completion of the Work and prior to final acceptance, all parts of the Work installed under this specification shall be thoroughly cleaned.
- grease, metal cuttings and sludge which may have accumulated by operation of the system for testing or from other causes. 3.03 APPLICATION

systems, or vertical risers.

3.05 TESTING OF GAS PIPING

B. Install unions downstream of valves and at equipment or apparatus

A. Use grooved mechanical couplings and fasteners only in accessible

- Solder adapters to pipe D. Install ball or butterfly valves for shut-off and to isolate equipment, part of
- F. Provide spring loaded check valves on discharge of water pumps.

G. Provide gas ball valves in natural gas systems for shut-off service.

H. All plumbing fixtures shall be provided with water saving flow control

B. Drainage Piping: Verify invert elevations of all existing sewer lines to

- devices to meet all Federal, State, and local water conservation laws. 3.04 INVERT ELEVATIONS A. Drainage Piping: Establish invert elevations within 1/2 inch (10 mm)
- A. Air pressure test system to 75 PSI and maintain for a period of eight (8) hours with no pressure drop.

- B. Purge line with nitrogen at junction with main line at gas meter to remove all air. Clear complete line by attaching a test pilot fixture at capped stub-in line at building location and let gas flow until test pilot ignites. CAUTION, failure to purge system may result in explosion within line when air-to-gas is at correct mixture.
- C. Test and obtain approval on all underground piping before covering work. Provide written testing report to Architect.

#### 3.06 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

- A. Prior to starting work, verify system is complete, flushed and clean. B. Inject disinfectant, free chlorine in liquid, powder, tablet or gas form.
- throughout system to obtain 50 to 80 mg/L residual. C. Bleed water from outlets to ensure distribution and test for disinfectant
- residual at minimum 15 percent of outlets.
- D. Maintain disinfectant in system for 24 hours. E. If final disinfectant residual tests less than 25 mg/L, repeat treatment. F. Flush disinfectant from system until residual equal to that of incoming
- water or 1.0 mg/L. G. Take samples no sooner than 24 hours after flushing, from 10 percent of outlets and from water entry, and analyze in accordance with AWWA C651.

**END OF SECTION** 

ERWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY ARISING FROM THE UNAUTHORIZED USE OF THESE PLANS, DRAWINGS, AND NOTES

THIS DRAWING MAY HAVE BEEN REPRODUCED AT A SIZE DIFFERENT THAN ORIGINALLY DRAWN FRWIN ARCHITECTURE & DEVELOPMENT LLC. ASSUMES NO RESPONSIBILITY FOR THE INCORRECT USE OF

DO NOT DISTRIBUTE, MODIFY, OR PUBLISH THESE PLANS WITHOUT PRIOR AUTHORIZATION FROM ERWIN ARCHITECTURE & DEVELOPMENT LLC. ERWIN ARCHITECTURE & DEVELOPMENT LLC. RETAINS OWNERSHIP OF ALL DRAWINGS.

#### **CONTACTS:**

SUPERLUXE SCREEN PRINTING JONATHAN PITT (E) JON@THEWANDERIST.COM

(P) 480.247.6653 ERWIN ARCHITECTURE & DEVELOPMENT, LLC. WILLIAM ERWIN, AIA, LEED AP BD+C (E) WILL@ERWINARCHITECTURE.COM

(P) 602.677.8372 SELF-CERTIFIED ARCHITECT ANDREWS DESIGN GROUP INC. DON ANDREWS JR. (E) DON@ADGARCH.NET

(P) 480.894.3478

3 ENGINEERING

DAN MANN, P.E. 6370 E. THOMAS RD, SUITE 200, SCOTTSDALE, AZ 85251 (E) DAN@3ENGINEERING.COM (P) 602.334.4387 UNITED STRUCTURAL DESIGN

DAVID GRAPSAS, P.E., S.E.

PHOENIX. AZ 85020

(P) 512.900.7888

2058 S. DOBSON ROAD, SUITE 10 MESA, AZ 85202 (E) DGRAPSAS@UNITEDSTR.COM (P) 480.382.9768 PETERSON ENGINEERING DAVID MCKERCHER

7201 N. DREAMY DRAW DRIVE, SUITE 200

(E) DAMEM@MPECONSULT.COM (P) 602.388.1716 NORRIS DESIGN JOEL THOMAS

(E) JTHOMAS@NORRIS-DESIGN.COM

# CLIEFT ICCLIE /DEV

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

WANDERIST OFFICE & RETAIL PLUMBING

Owner

10/08/18 Date

**SPECIFICATIONS** 

Scale **AS SHOWN** 

www.mpeconsult.com CONSULTING ENGINEERS INC. Job No. 197090 LL CONCEPTS, DESIGNS, AND DATA INDICATED ON THESE OCUMENTS ARE THE SOLE PROPERTY OF THE PETERSON ASSOC ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PURPOSE THAN ORIGINALLY INTENDED WITHOUT THE WRITTEN

DONALD ANDRÉWS

OR REVIEWED BY THE SELF-CERTIFIED PROFESSIONAL,

CODE AND ALL OTHER APPLICABLE LAWS.

PLANS ARE COMPLETE

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

KIVA #18-1372 SDEV #1800276 PAPP #1806619

7201 N. Dreamy Draw Driw

Phoenix, Arizona 85020

Facsimile (602) 943.2507

(602) 943,4116

PETERSON ASSOCIATES

PRLC QS Q16-36

**CERTIFICATE #45** 

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

fire rated walls, partitions, ceilings and floors and to provide the required sealants at penetrations. Y. Install each fixture with trap, easily removable for servicing and cleaning.

AC.Review millwork shop drawings. Confirm location and size of fixtures

# All equipment, fixtures, pipe, valves and fittings shall be cleaned of

- C. Install brass male adapters each side of valves in copper piped system.
- E. Install ball or butterfly valves for throttling, bypass, or manual flow control
- vertically of location indicated and slope to drain at minimum of 1/4 inch per foot (1:50) slope.

which new lines are to be connected prior to installation of any new work.

PERMISSION OF THE ENGINEER.