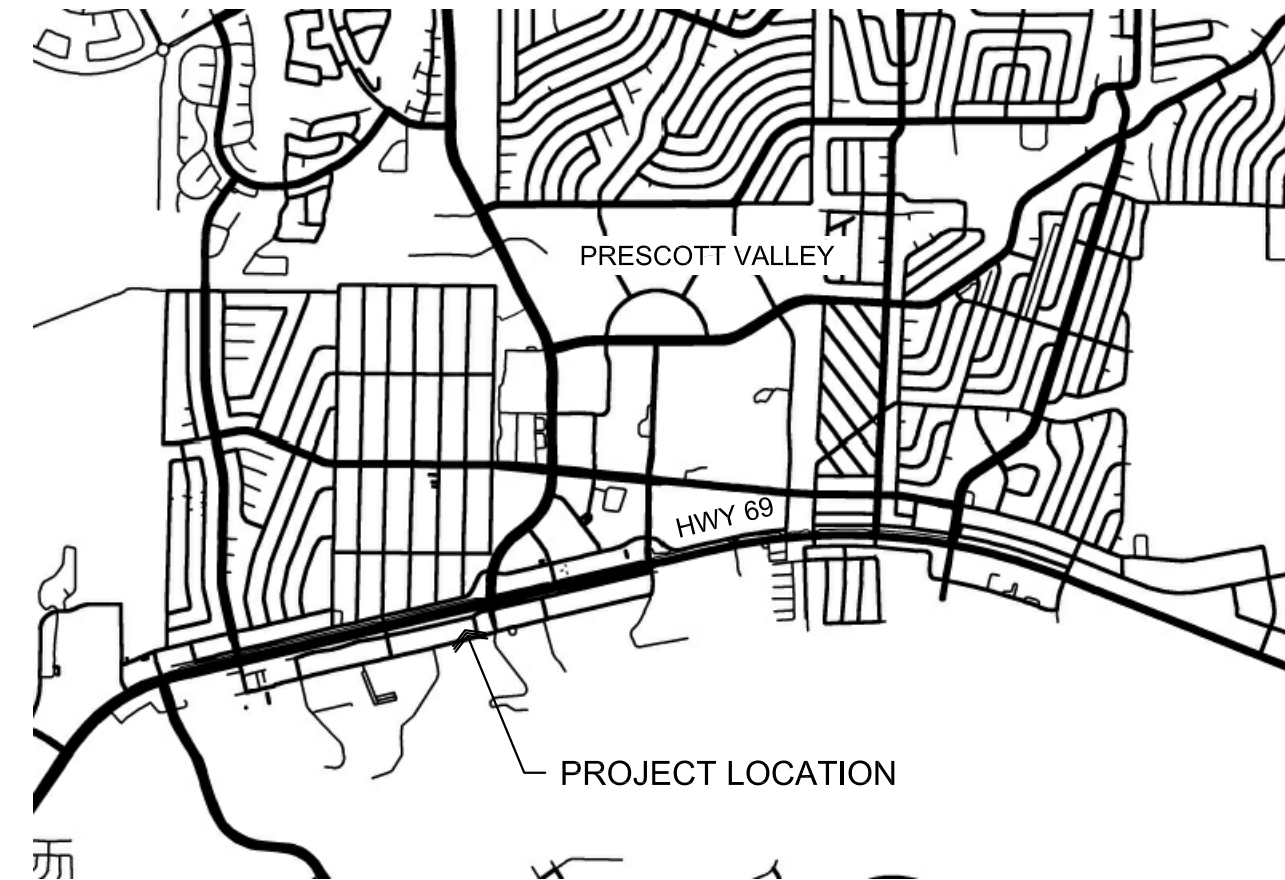


Arizona Hot Tub Company

PRESCOTT VALLEY, ARIZONA

Vicinity Map



Project Information

CLIENT:	Arizona Hot Tub Company 6947 E. 1st St. Prescott Valley, AZ 86314	PH: (928) 775-9884 Ext. 18 Contact: Steve Kasten steve@azhottubco.com
PREPARED BY:	W. Alan Kenson & Assoc., P.C. P.O. Box 11593 Prescott, AZ 86304	PH: 928-443-5812 Contact: Alan Kenson wakaarchitect@gmail.com
CONTRACTOR:	Kenson Construction 6135 Corsair Ave. Prescott, AZ 86301	PH: 928-445-5192 Contact: Alan Kenson wakaarchitect@gmail.com
JOBSITE ADDRESS:	6947 E. 1st St. Prescott Valley, AZ	
PARCEL NUMBER:	103-08-045A	
ZONING:	C3 Commercial	
CONST. TYPE:	V-B	
OCCUPANCY:	M	
EXISTING BLDG:	Existing 20,740 S.F.	
BUILDING CODES:	2018 International Building Code 2018 International Plumbing Code 2018 International Mechanical Code 2018 International Fuel Gas Code 2018 International Fire Code 2017 National Electric Code 2006 International Energy Conservation Code 2010 ADA Standards for Accessible Design	
PARKING REQUIREMENTS:	Parking is existing and adequate	

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CS2	Occupancy / Egress and Code Summary
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Graphic Standards

EXISTING DOOR	NORTH ARROW INDICATOR
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GRID LINE DESIGNATOR	BUILDING SECTION DESIGNATOR
REVISION DESIGNATOR	ELEVATION DESIGNATOR
DESCRIPTIVE NOTE DESIGNATOR	ROOM NUMBER / FINISH DESIGNATOR
DOOR NUMBER DESIGNATOR	DOOR TYPE DESIGNATOR
WINDOW TYPE DESIGNATOR	WALL TYPE DESIGNATOR

Project Description

Arizona Hot Tub Company intends to remodel a portion of their existing building to include a new restroom with a shower. A wall will be added to separate a new storage area from an existing parts room. New electrical, mechanical and plumbing will be required in the remodeled areas. Covered storage structures will be added to the South parking lot.

Architect:

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ARCHITECTURE & PLANNING



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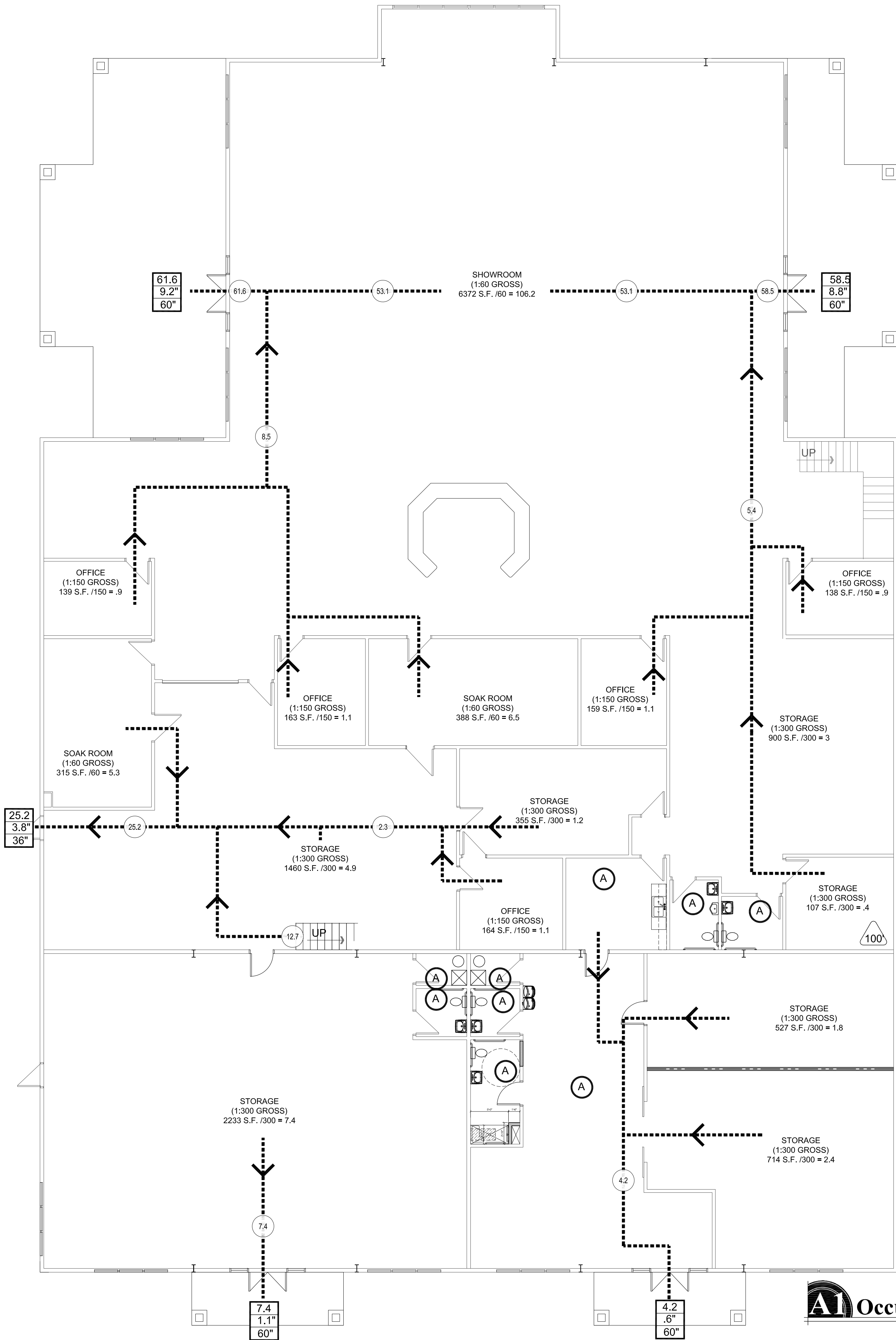
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DRAWING: Cover Sheet
PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314
APN: 103-08-045A

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DATE May 20th, 2022
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CS1

May 19, 2022 - 2:45pm



Occupancy / Egress Plan

Scale: 1/4"=1'-0"



Plumbing Calculations

OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAIN	SERVICE SINK
BUSINESS	157	4	3	2	1
TOTAL REQUIRED		4	3	2	1
TOTAL PROVIDED		5	5	2	1

Accessibility Notes

- ACCESS TO THESE FACILITIES SHALL BE AT PRIMARY ENTRANCES.
- THE SLOPE OF PUBLIC WALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 2%.
- WALKING SURFACES GREATER THAN 2% SHALL BE SLIP RESISTANT.
- PROVIDE A 44"x60" MINIMUM LANDING ON THE STRIKE SIDE OF THE ENTRANCE DOOR WITH 44" MINIMUM WIDTH IN THE DIRECTION OF TRAVEL.
- WALLS SHALL EXTEND 18" TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARDS THE OCCUPANT.
- RAMPS SHALL HAVE A NON-SLIP SURFACE.
- RAMPS SHALL BE A MINIMUM OF 36" WIDE.
- EVERY REQUIRED EXIT DOORWAY SHALL BE SIZED FOR A DOOR NOT LESS THAN 36" WIDE BY NOT LESS THAN 6'-8" HIGH CAPABLE OF OPENING 90 DEGREES AND MOUNTED SO THE CLEAR WIDTH OF THE EXIT WAY IS 32" MINIMUM.
- THRESHOLDS TO BE A MAXIMUM OF 1/4" ABOVE ADJACENT FLOOR FINISH. ONE-HALF INCH THRESHOLD MAY BE USED IF BEVELED PER A.D.A. STANDARDS.
- MAXIMUM EFFORT TO OPERATE A DOOR SHALL NOT EXCEED 5 POUNDS.
- THE BOTTOM 10 INCHES OF ALL DOORS EXCEPT AUTOMATIC AND SLIDING DOORS SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE.
- PROVIDE LEVER TYPE HARDWARE, PANIC BARS, PUSH AND PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE. (30" TO 44" A.F.F.)

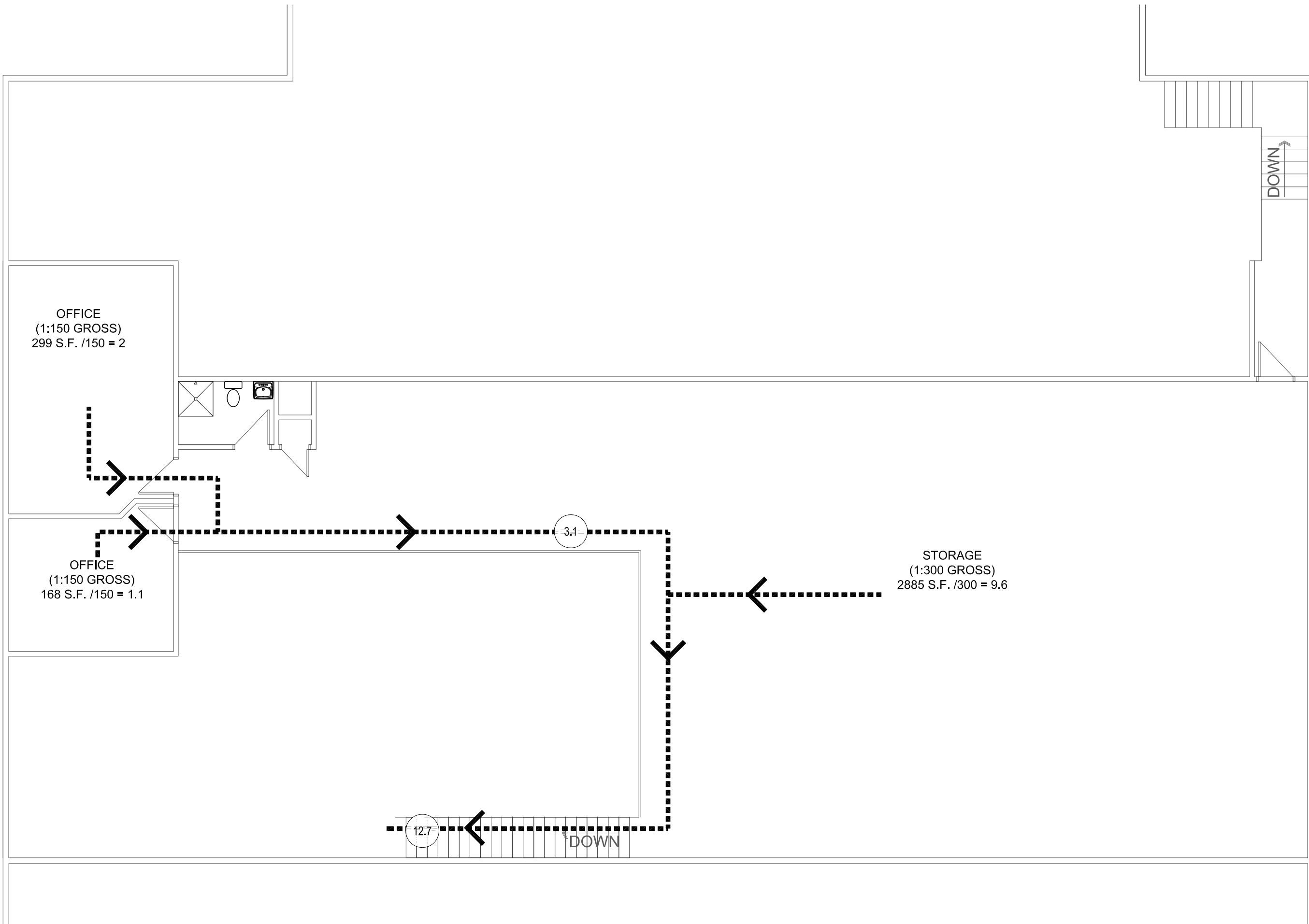
Egress Legend:

	EXIT ACCESS
	ACCESSORY USE (NO OCCUPANCY)
	ROOM OCCUPANCY LOAD
	SUBTOTAL OCCUPANCY LOAD
	OCCUPANCY TOTAL
	REQUIRED EXIT WIDTH (FACTOR = 0.15)
	PROVIDED EXIT WIDTH
	WORST CASE TRAVEL DISTANCE TO COMMON PATH OF EGRESS TRAVEL
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
STORAGE	300 GROSS
MERCANTILE	60 GROSS
BUSINESS	150 GROSS

Occupant load

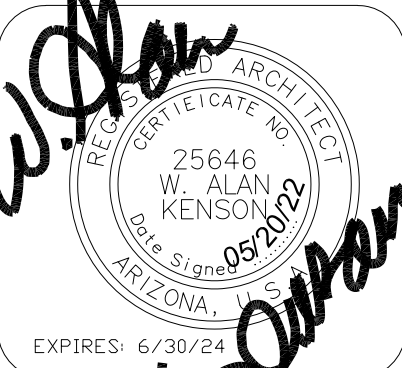
NOTE: GROSS SQUARE FOOTAGE LISTED BELOW DOES NOT INCLUDE ACCESSORY AREAS.		
MERCANTILE	7,075 SQ. FT.	118 OCCUPANTS
STORAGE	9,181 SQ. FT.	31 OCCUPANTS
BUSINESS	1,230 SQ. FT.	8 OCCUPANTS
TOTAL:	3,027 SQ. FT.	157 OCCUPANTS

- EXIT SIGNS:
- PROVIDE A 6"x9" BLUE TACTILE, BRAILLE, 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICC/ANSI A117.1 SECTION 703.1 AND IBC SECTIONS 1013 & 1111, ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE, IF NOT EXISTING.



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ARCHITECTURE & PLANNING

DRAWING: Occupancy / Egress Plan

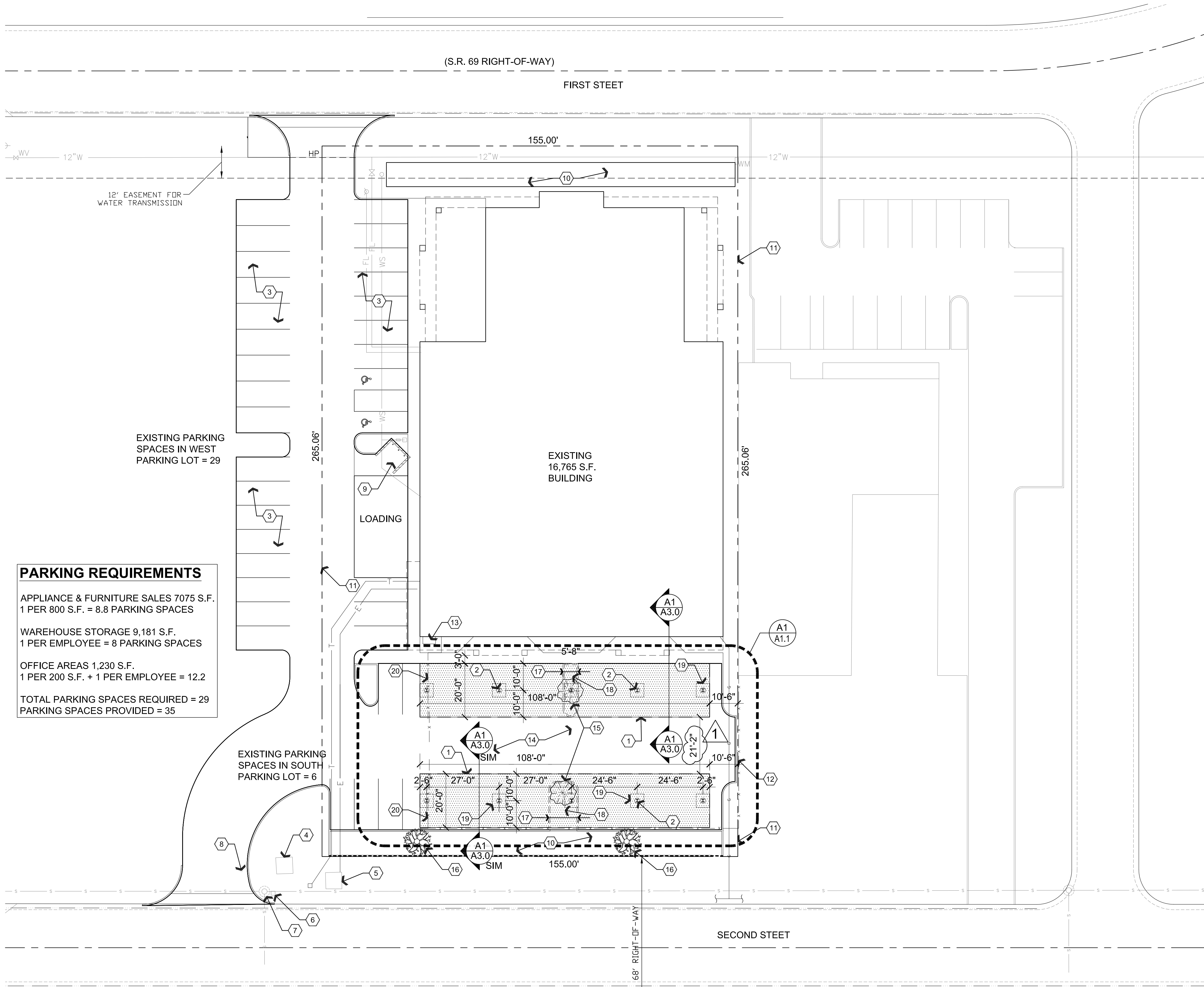
PROJECT: Arizona Hot Tub Company
6847 E. 1st St.
Prescott Valley, AZ 86314

APN: 103-08-045A

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DATE May 20th, 2022
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Aug 09, 2022 - 10:33am



Descriptive Keynotes

1. PROPOSED STORAGE AREA COVER.
2. PROPOSED COLUMN.
3. EXISTING PARKING SPACES.
4. EXISTING ELECTRICAL TRANSFORMER.
5. EXISTING ELECTRICAL SWITCH PAD.
6. EXISTING TELEPHONE RISER.
7. EXISTING SEWER MANHOLE.
8. EXISTING CATV RISER.
9. EXISTING TRASH DUMPSTER ENCLOSURE.
10. EXISTING DETENTION AREA.
11. EXISTING PROPERTY LINE.
12. EXISTING CHAIN LINK FENCE.
13. EXISTING ELECTRICAL SERVICE ENTRANCE SECTION.
14. EXISTING PAVED STORAGE AREA.
15. EXISTING TREE AND SHRUBS TO BE REMOVED.
16. PROVIDE NEW TREE, LOCATION IN DETENTION AREA TO BE FIELD VERIFIED.
17. REMOVE EXISTING CONCRETE CURB AND TOP SOIL.
18. PROVIDE 3" ASPHALT PAVING OVER 8" COMPACTED ABC AT PLANTER AREA.
19. REMOVE 5'-0"x5'-0" ASPHALT PAVING AT PROPOSED COLUMN LOCATION. PATCH BACK ASPHALT AROUND NEW COLUMN AND OVER NEW CONCRETE FOUNDATION WITH 3" ASPHALT PAVEMENT AND 8" COMPACTED ABC.
20. REMOVE CHAIN-LINK FENCING AS REQUIRED AND REPAIR AFTER INSTALLATION OF NEW COLUMN.

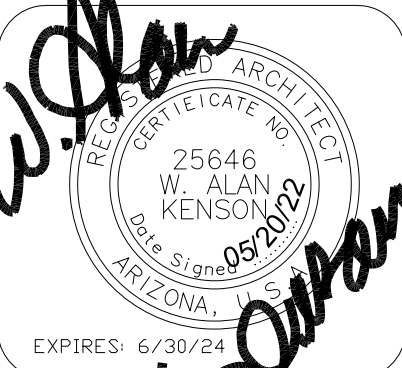
A1 Site Plan

Scale: 1"=20'-0"



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1. Town of PV Comments 7/22/2022	LO

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ARCHITECTURE & PLANNING

DRAWING: Architectural Site Plan

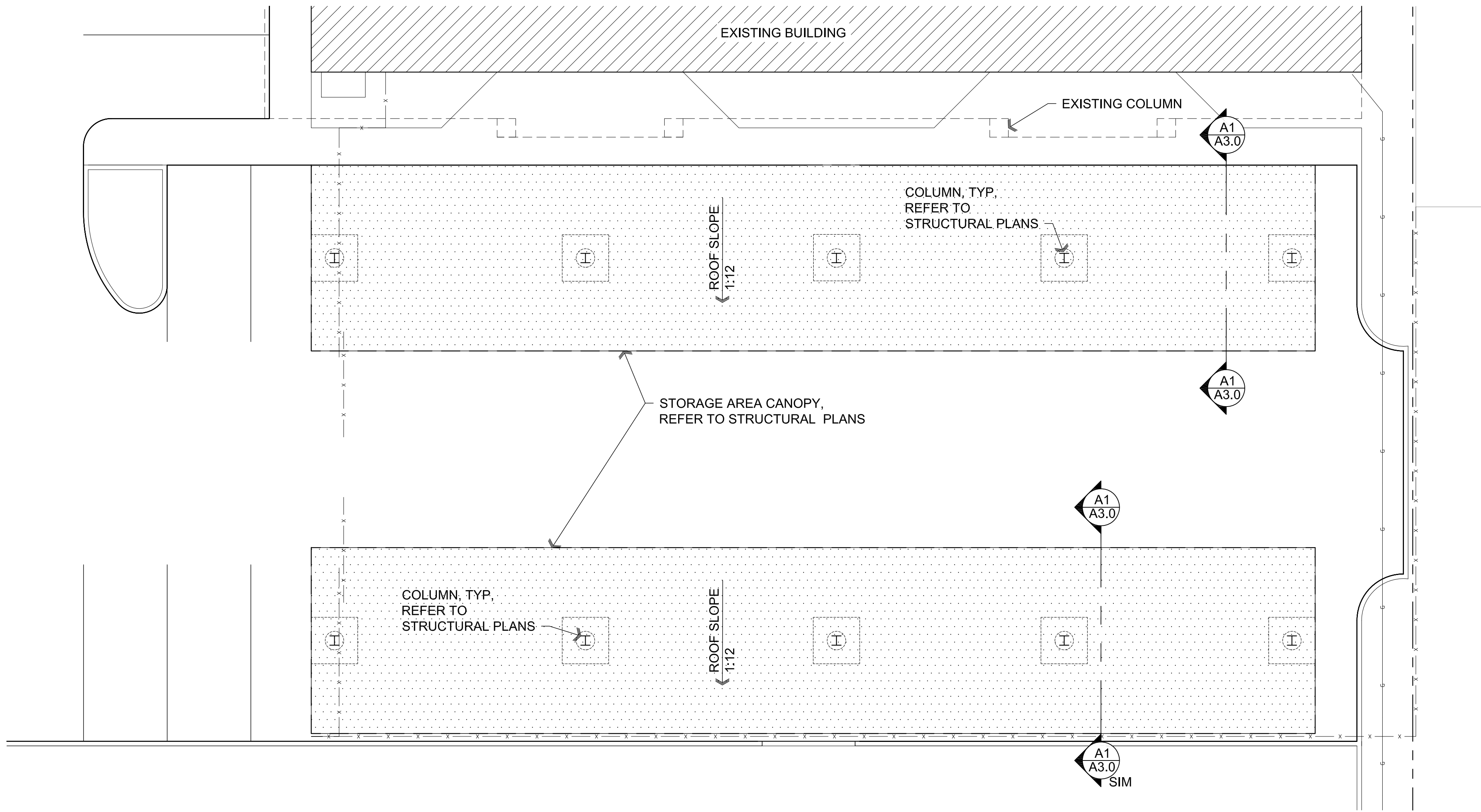
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A1 Enlarged Plan

Scale: 1/8"=1'-0"



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DRAWING: Enlarged Plan

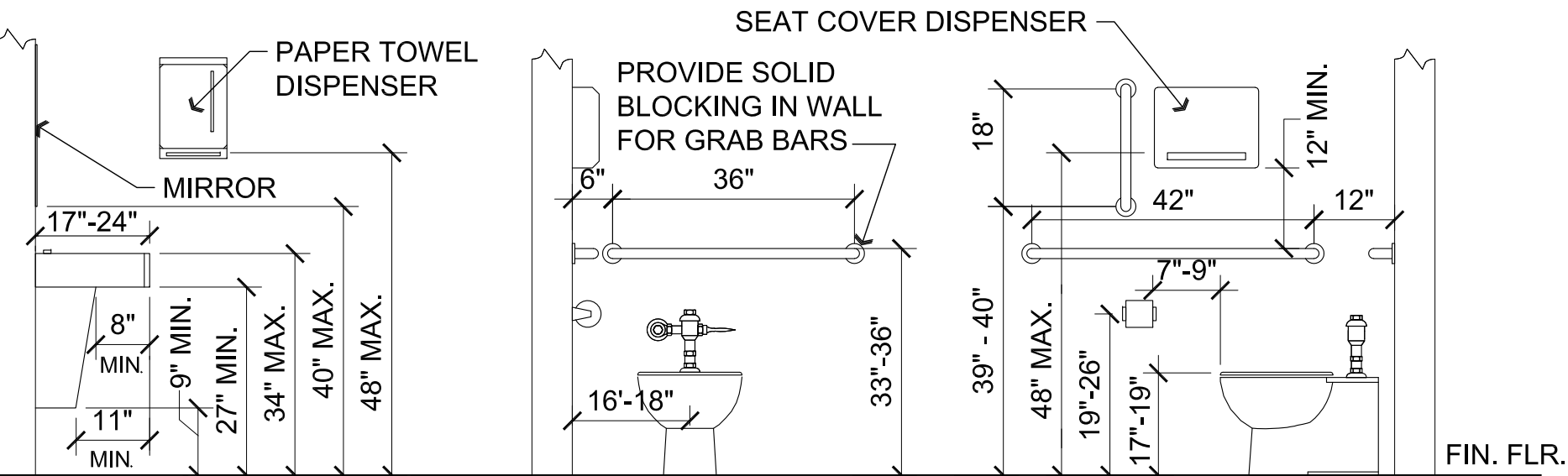
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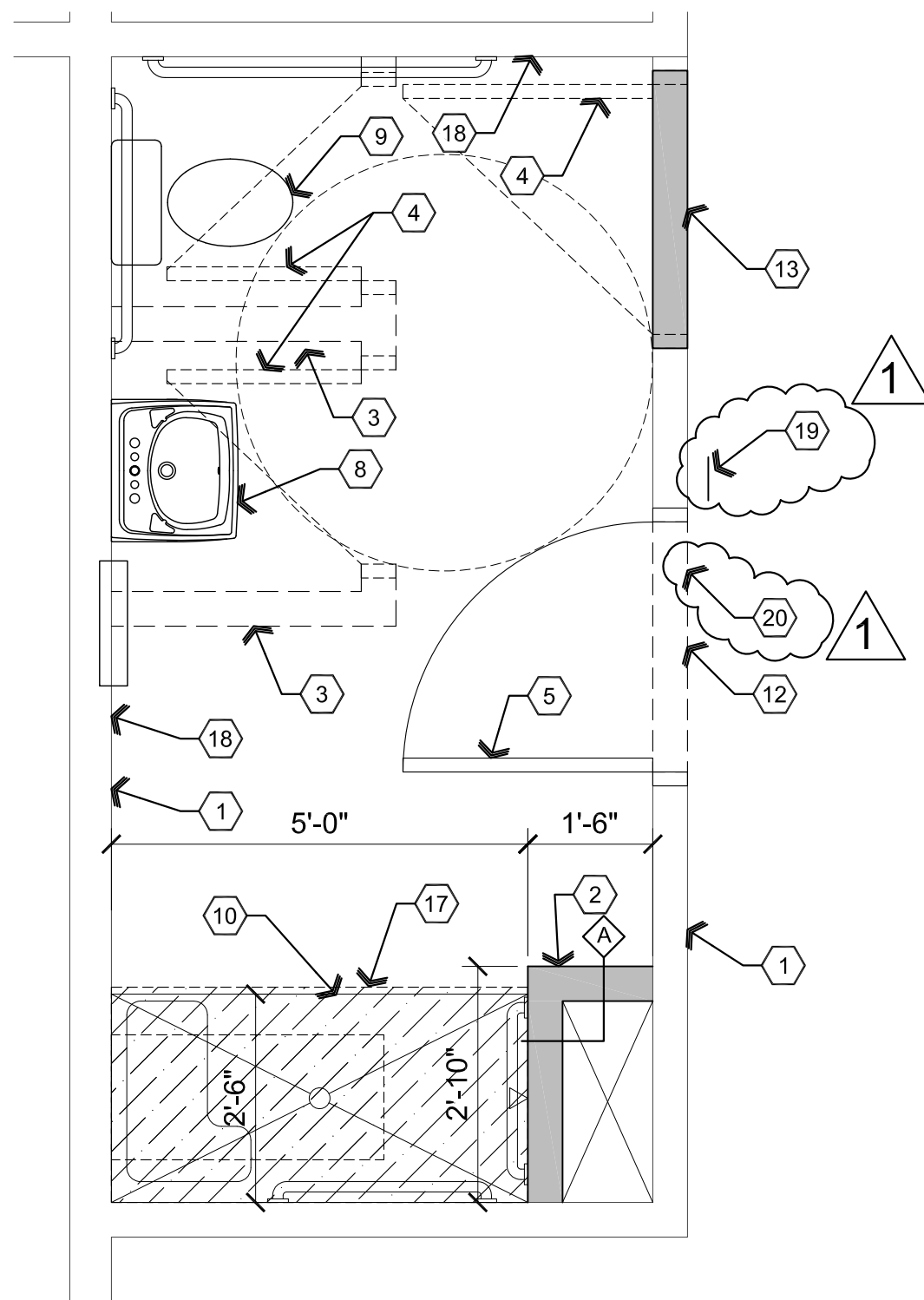
A2 Typical Fixture Mounting Heights

Scale: 1/2"=1'-0"

Toilet Accessory Schedule

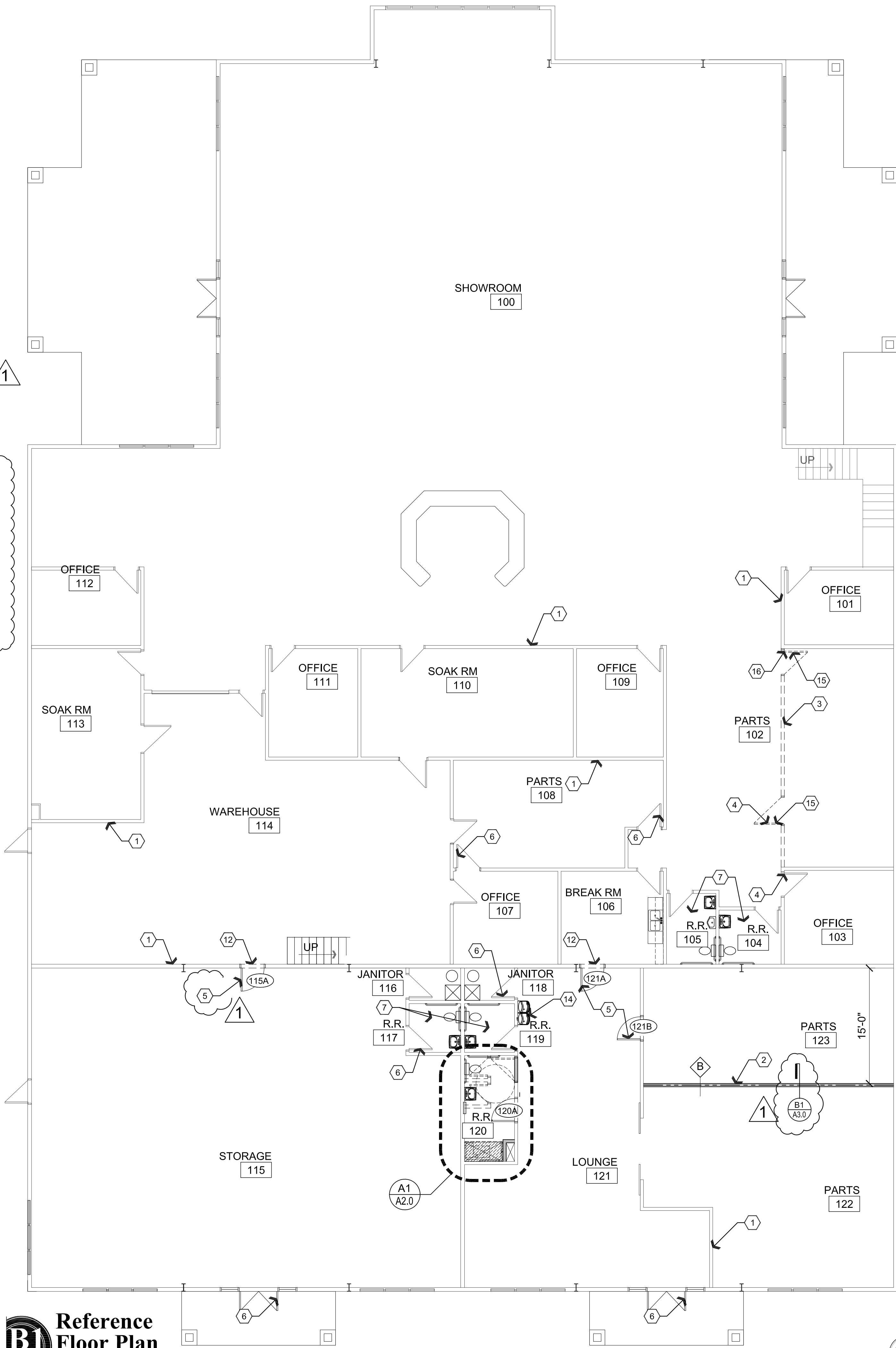
SH-8

FIXTURE	DESCRIPTION	MANUFACTURER	MODEL	COLOR
PAPER TOWEL DISPENSER	RECESSED W/ TRASH	BOBRICK	B-3944	STAINLESS STEEL
GRAB BARS 42", 36", 18"	1 1/4" DIAMETER	BOBRICK	B-5806	STAINLESS STEEL
TOILET SEAT COVER DISPENSER	HALF FOLD	BOBRICK	B-221	STAINLESS STEEL
TOILET PAPER DISPENSER	SINGLE 10" JUMBO	BOBRICK	B-2890	STAINLESS STEEL
MIRROR	24x36	BOBRICK	B-290	STAINLESS STEEL



A1 Enlarged Plan

Scale: 1/8"=1'-0"



B1 Reference Floor Plan

Scale: 1/8"=1'-0"



Descriptive Keynotes

- EXISTING WALL, TYPICAL.
- PROPOSED WALL, TYPICAL.
- REMOVE EXISTING WALL FROM 7'-0 DOWN.
- REMOVE EXISTING DOOR.
- PROPOSED DOOR, TYPICAL.
- EXISTING DOOR, TYPICAL.
- EXISTING RESTROOM.
- PROPOSED LAVATORY AT EXISTING PLUMBING STUB-OUT. PLUMBING UNDER THE SINK MUST HAVE IMPACT PROTECTION.
- PROPOSED ADA COMPLIANT TOILET AT EXISTING PLUMBING STUB-OUT.
- PROPOSED ADA ACCESSIBLE SHOWER.
- PROPOSED OVERHEAD SECTIONAL DOOR.
- REMOVE PORTION OF EXISTING WALL FOR NEW DOOR LOCATION.
- FILL IN PORTION OF EXISTING WALL TO MATCH EXISTING WHERE DOOR IS TO BE REMOVED.
- EXISTING ELECTRIC DRINKING FOUNTAINS.
- REPAIR DRYWALL @ 3'x8' TALL DOOR FROM 7' UP TO 8'.
- RELOCATE EXISTING DOOR TO NEW DOOR LOCATION AT 121B.
- SAWCUT, REMOVE AND REPLACE CONCRETE SLAB TO ACCOMMODATE NEW ADA COMPLIANT SHOWER. REFER TO PLUMBING PLANS.
- PROVIDE 4'-0" HIGH FRP ON ALL WALLS IN RESTROOM. WALLS SHALL HAVE A 4" SMOOTH, HARD, NON-ABSORBENT VERTICAL BASE.
- PROVIDE ACCESSIBILITY SIGNAGE MOUNTED PER A.D.A. REQUIREMENTS.
- PROVIDE DOUBLE 2x6 HEADER.

Wall Types Legend

- A** 3-5/8" METAL STUD WALL: PROVIDE 3-5/8" 25 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW ON EXPOSED SIDE.
- B** 3-5/8" METAL STUD WALL: PROVIDE 3-5/8" 20 GA. STEEL STUDS AT 2'-0" O.C. WITH 5/8" GPDW EACH SIDE. WALL TO BE 10' TALL. EXTEND 1'-0" X 3-5/8" WALL COLUMN UP TO STRUCTURE AT ±10'-0" O.C. FOR SUPPORT.
- C** EXISTING WALL

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ARCHITECTURE & PLANNING

DRAWING: Reference Floor Plan

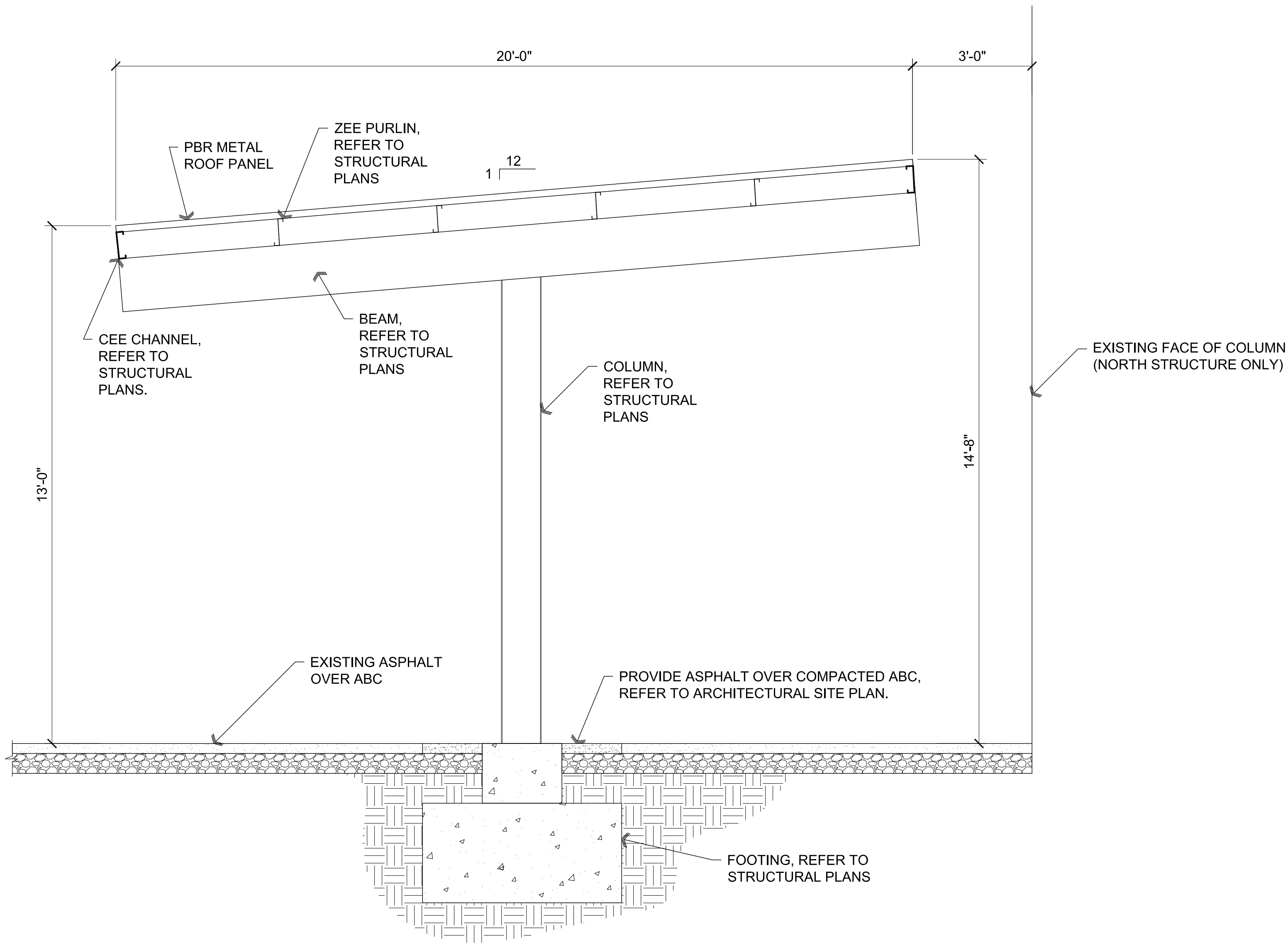
PROJECT: Arizona Hot Tub Company
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APN: 103-08-045A

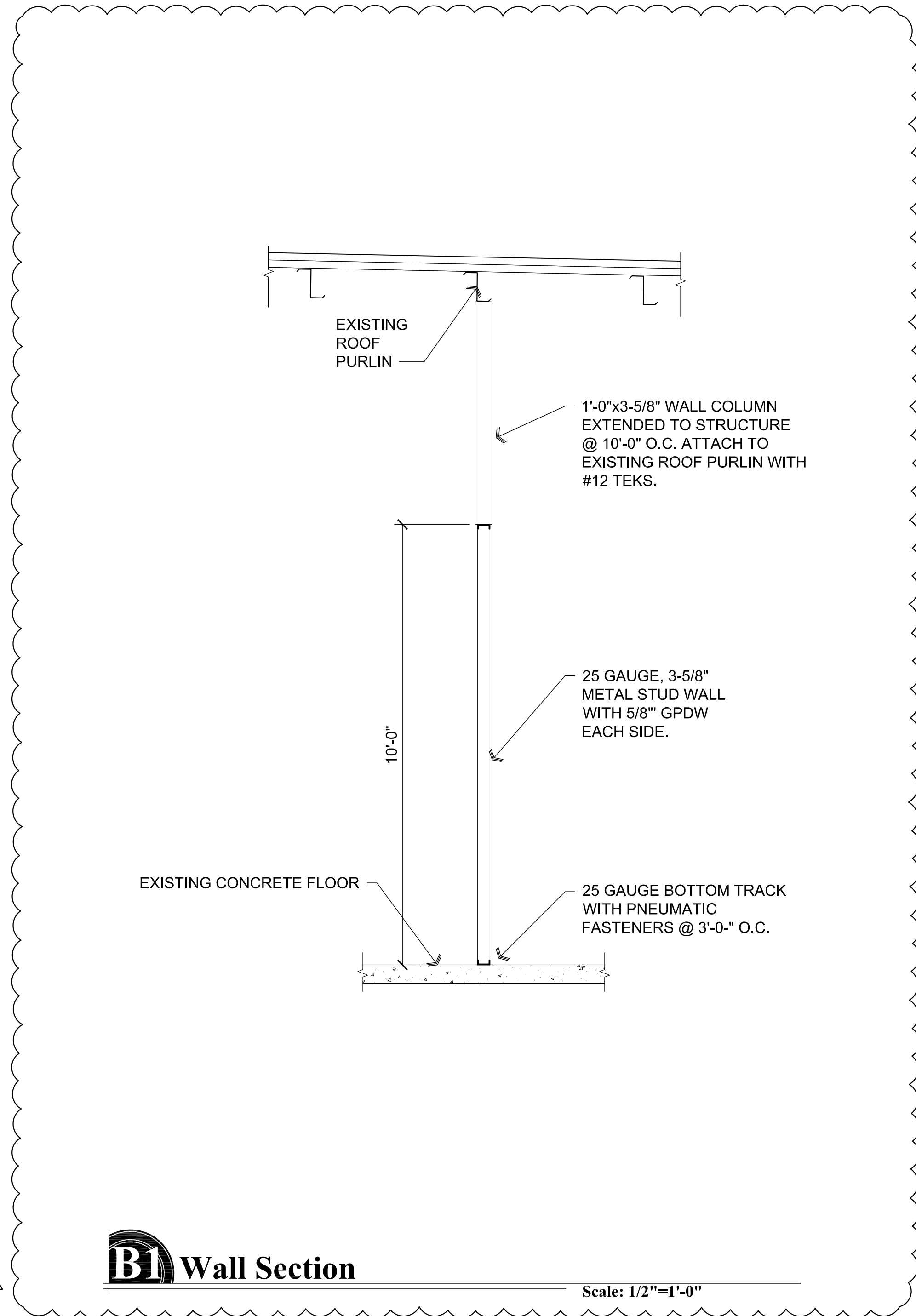
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A2.0

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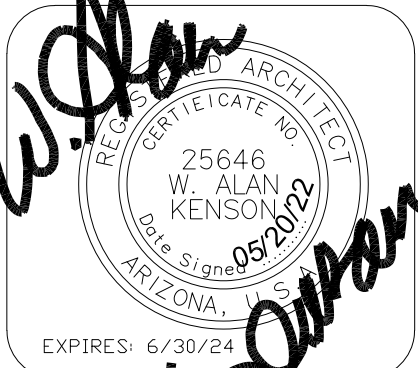
A1 Parking / Storage Canopy Structure Section
Scale: 1/2"=1'-0"



B1 Wall Section
Scale: 1/2"=1'-0"

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DRAWING: Parking / Storage Canopy Section

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

APN: 103-08-045A

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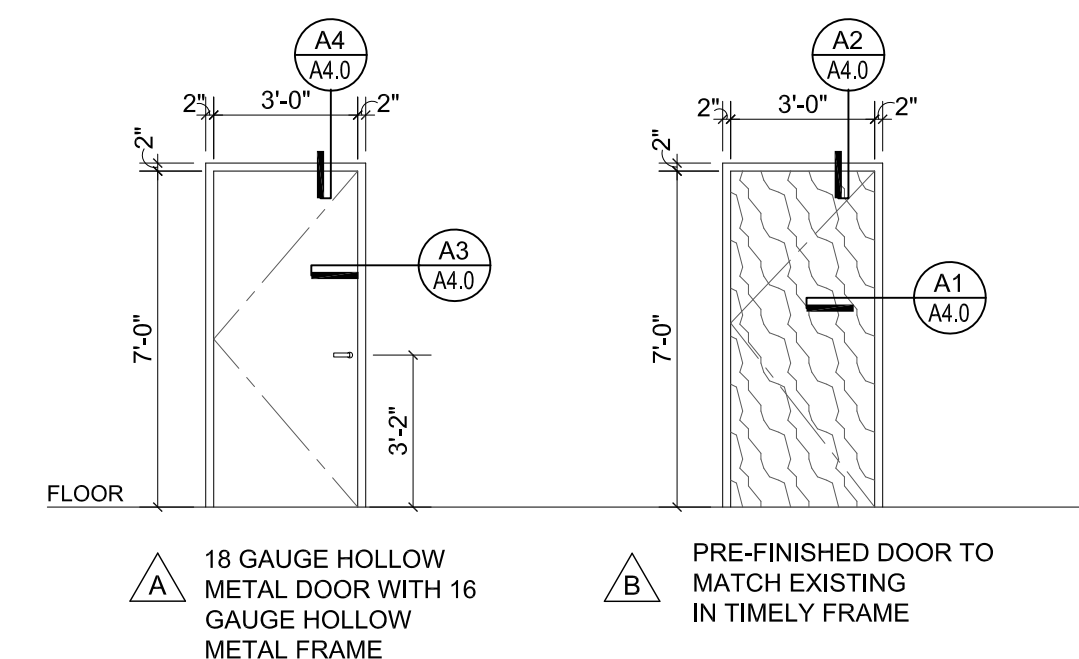
A3.0



<u>HW-01:</u>	LEVER ENTRY LOCK, HINGES
<u>HW-02</u>	LEVER PRIVACY LOCK, HINGES

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
115A	STORAGE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
120A	RESTROOM	3'-0"x7'-0"	B	MATCH EXST	PRE-FINISHED	STEEL	PRE-FINISHED	02
121A	LOUNGE	3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
121B	LOUNGE	3'-0"x7'-0"	B	RELOCATED DOOR	PRE-FINISHED	RELOCATED FRAME	PRE-FINISHED	EXISTING RELOCATED

1. ALL EXIT DOORS & HARDWARE SHALL COMPLY WITH THE 2018 I.B.C.
2. DOOR THRESHOLDS SHALL HAVE A MAX HEIGHT OF 1/2" FOR H.C. ACCESSIBILITY. THRESHOLD SHALL HAVE A MAXIMUM RISE OF 1/4" AND 1/2" RISE WHEN BEVELED WITH MAXIMUM 1:2 SLOPE.
3. ALL GLAZING IN DOORS SHALL BE SAFETY GLAZING.
4. ALL INTERIOR DOORS SHALL BE OPERABLE FOR EMERGENCY EXITING PURPOSES WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE NOR EFFORT.
5. ALL GLAZING WITHIN 24" OF OPENINGS SHALL BE SAFETY GLASS.
6. IF A DOOR HAS A CLOSER, THEN THE SWEEP PERIOD OF THE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
7. DOOR HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. HARDWARE REQUIRED FOR DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISH FLOOR.
8. DOOR OPENING FORCE SHALL BE: 5lbf MAX INTERIOR HINGED, SLIDING OR FOLDING DOORS; FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.



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ARCHITECTURE & PLANNING

DISCUSSION:

PROJECT:
Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

APN:
103-08-045A

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DATE 20th, 2022
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... APPLY UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS

CODE: Comply with 2018 IBC

SEISMIC: Soils Site Class D
Seismic Design Category C
Seismic Use Group 1

WIND: Basic wind speed 115 m.p.h., exposure C.

SUPERIMPOSED LOADS

LIVE LOADS: 30 psf (SNOW)

METAL ROOF: 0.9 psf

PURLINS: 1.0 psf

MISC: 3.1 psf

TOTAL: 5.0 psf

FOUNDATIONS:

Bear at 4'-0" below finished grade on undisturbed soil.
Allowable bearing pressure = 2500 psf

SOILS REEPORT:

Soils report by E.T.C. #5102 dated 3/22/2006 w/ 2 addendums.
sSee soils report for more information.

SPECIAL INSPECTIONS:

- Concrete
- field welding

CONCRETE

Shall meet all the requirements of ACI 301-16 with Type II cement. Minimum 28 day strength 3,000 p.s.i., (2500 used in design, no Special inspection required).

No admixtures without approval. Admixtures containing chlorides shall not be used.
Concrete shall not be in contact with aluminum.

Mechanically vibrate all concrete when placed, except that slabs on grade need be vibrated only around embedded items. Slump 4 inches for slabs not on grade and 5 inches for other concrete. Do not add water to concrete at site.

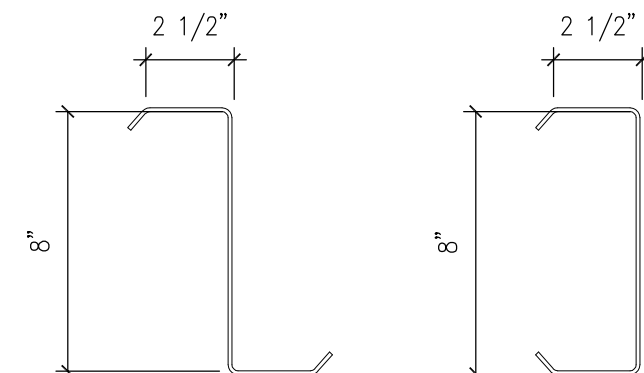
All reinforcing, including dowels and anchor bolts, shall be securely tied in location before placing concrete or grout. Dowels will not be allowed to be "stabbed" in.

REINFORCING:

ASTM A-615 Grade 60 except as follows:

#2 bars..... Grade 40

Welded anchors..... Grade 40, chemical analysis limited per AWS spec for weld without preheat.
Also see "Welding" below.



8" X 2.5" X 12 GA. Z
Ix=13.46 in.^4 Sx=2.01 in.^3
Fy=55 ksi.

8" X 2.5" X 14 GA. CEE
Ix=9.4 in.^4 Sx=2.4 in.^3
Fy=55 ksi.

PURLIN & GIRTS

COLD-FORMED STEEL STUDS AND JOISTS:

Steel stud system shall be designed by stud manufacturer, to the minimum criteria noted below and shown on plans. Submit for review prior to proceeding with work. All 16 gage and heavier cee, zee, eaves strut, tracks and straps shall be AISI Specifications with 57,000 p.s.i. yield stress. All other stud material shall be 33,000 p.s.i. steel of standard commercial quality. Web stiffeners shall be provided at reaction points and/or at points of concentrated loads.

Joist bridging shall be provided as required by manufacturer. Additional joists shall be provided around all floor and roof openings which interrupt one or more spanning members, unless otherwise noted.

End blocking shall be provided where joist ends are not otherwise restrained from rotation.

SECTION PROPERTIES FOR LIGHT GAGE MATERIALS:

All section properties must comply with the "Metal Stud Manufacturer's Association" (ICBO ER#4943).

The structural properties included here have been computed based on the American Iron and Steel Institute "Specification for the Design of Cold-Formed Structural Members".

Thickness - Steel Components

Gauge Design Thickness (in) Minimum Thickness (in)

16	.0566	.0538
14	.0713	.0677
12	.1017	.0966

STRUCTURAL STEEL:

ASTM A-992 50 ksi

Bolts ASTM A-325.

Bolts embedded in concrete ASTM A-307.

See "Welding" section for special requirements.

26 GAGE "R" PANEL, METAL ROOF DECK:

Steel Deck Institute specifications and recommendations apply, except as noted otherwise.

Deck shall be painted, minimum 26 gage, MCB1 36" width, with minimum Sx(t) = 0.039 & Sx(b) = 0.0437 inch cubed per foot of width ICBO #ER-S409P). Deck units shall be continuous over three spans, except that simple spans are required where deck warps to meet roof slopes. Use next heavier gage for simple or two span continuous conditions.

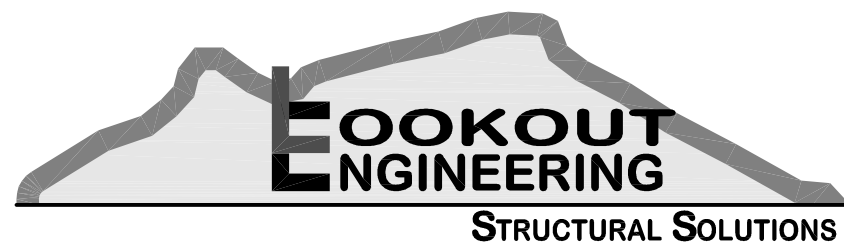
WELDING:

All construction and testing per American Welding Society codes and recommendations. All welding shall be by welders holding current valid certificates and having current experience in type of weld called for.

Welding rods to be low hydrogen type, E70 Series, per AWS D1.1 typically except E-6010 Series for steel sheet metal per AWS D1.3 and reinforcing weldments per AWS D1.4. Use E90 Series welding rods for A706 rebar.

All full-penetration groove or butt welded splices in material thicker than 5/16" shall be inspected by an independent testing laboratory, which shall test ultrasonically a sufficient number of welds but not less than 25 percent of total per welder, to certify all splices as meeting or exceeding strength of material spliced. Two copies of all test reports and a letter of such certification shall be submitted to the Architect.

Shop indicated welds may be done in field.



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SUPPLEMENTARY NOTES:

Provide all temporary bracing, shoring, guying or other means to avoid excessive stresses and to hold structural elements in place during construction. Any members required to support equipment from the framing shown shall be designed and provided by the equipment Contractor. For connections, see details. If not shown or noted, minimum connections to be included in cost shall be two 3/4" diameter bolts or 3/16" fillet weld 4" long using 1/4" connection material and detailed to minimize bending in connection. Proceed after clarification through shop drawing submittal.

Options and approved substitutions are for Contractor's convenience. He shall be responsible for all changes and additional costs necessary and he shall coordinate all details.

Any engineering design provided by others and submitted for review shall be by an insured Structural Engineer with continuous five years of experience in the type of design submitted.

Unless noted otherwise, details on Structural Drawings are typical as indicated by cuts, references, or titles.

In case of conflicts, more costly requirements govern for bidding. Submit clarification request prior to proceeding with work.

Verify all dimensions with Architectural Drawings.

Contractor shall establish and verify in field all existing conditions affectin?g new construction. Contact Architect immediately if existing conditions are not as depicted in dr?awings.

All construction meeting or crossing expansion or shrinkage control joints in framed floors or roofs must have provisions to accommodate the movement or must be delayed until the joint is closed.

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REGISTERED PROFESSIONAL ENGINEER
NO. 26025
GARY HANCOCK
State of Arizona

WAKA

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ARCHITECTURE & PLANNING

DRAWING: STRUCTURAL GENERAL NOTES

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

APN: 103-08-045A

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CHECKED BY
DATE April 8th, 2022
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ARCHITECTURE & PLANNING

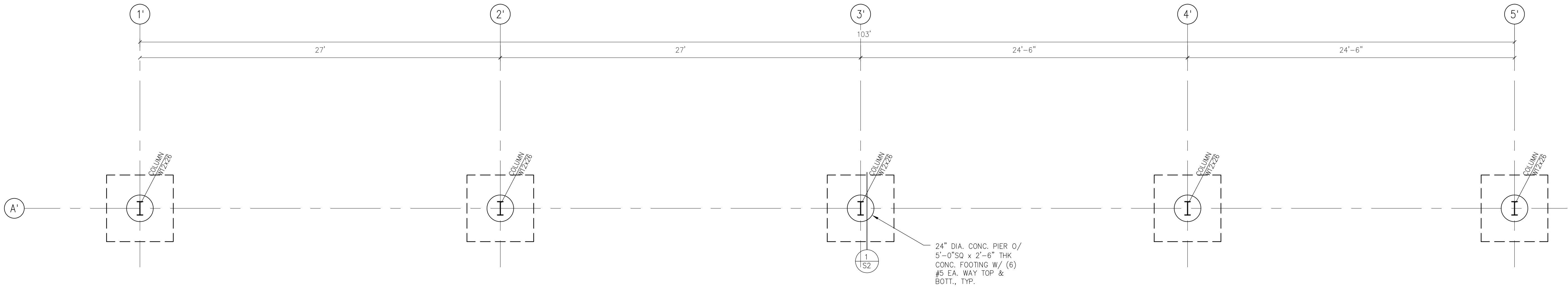
DRAWING: FOUNDATION & FRAMING PLANS

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

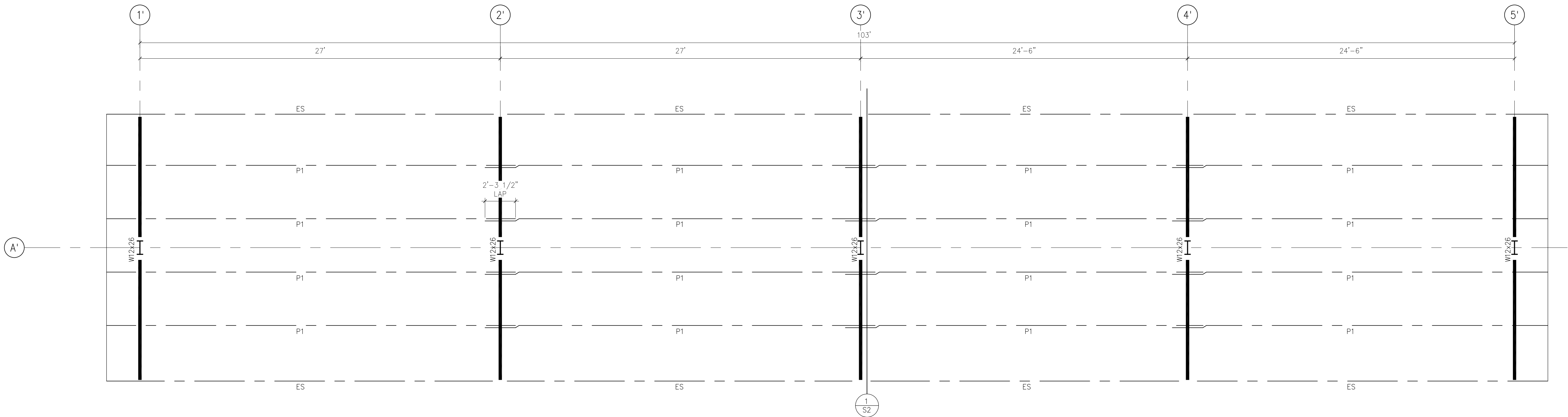
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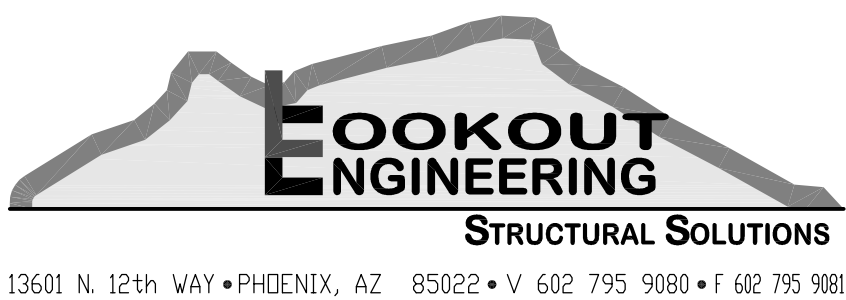


FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



MEMBERS:	
P1	8"x2 1/2"x12GA PURLIN
ES	8"x2 1/2"Cx14GA EAVE STRUT

FRAMING PLAN
SCALE: 1/4" = 1'-0"



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1	REVIEW COMMENTS 8/10/22	

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ARCHITECTURE & PLANNING

DRAWING: STRUCTURAL DETAIL

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
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103-08-045A

103-08-045A

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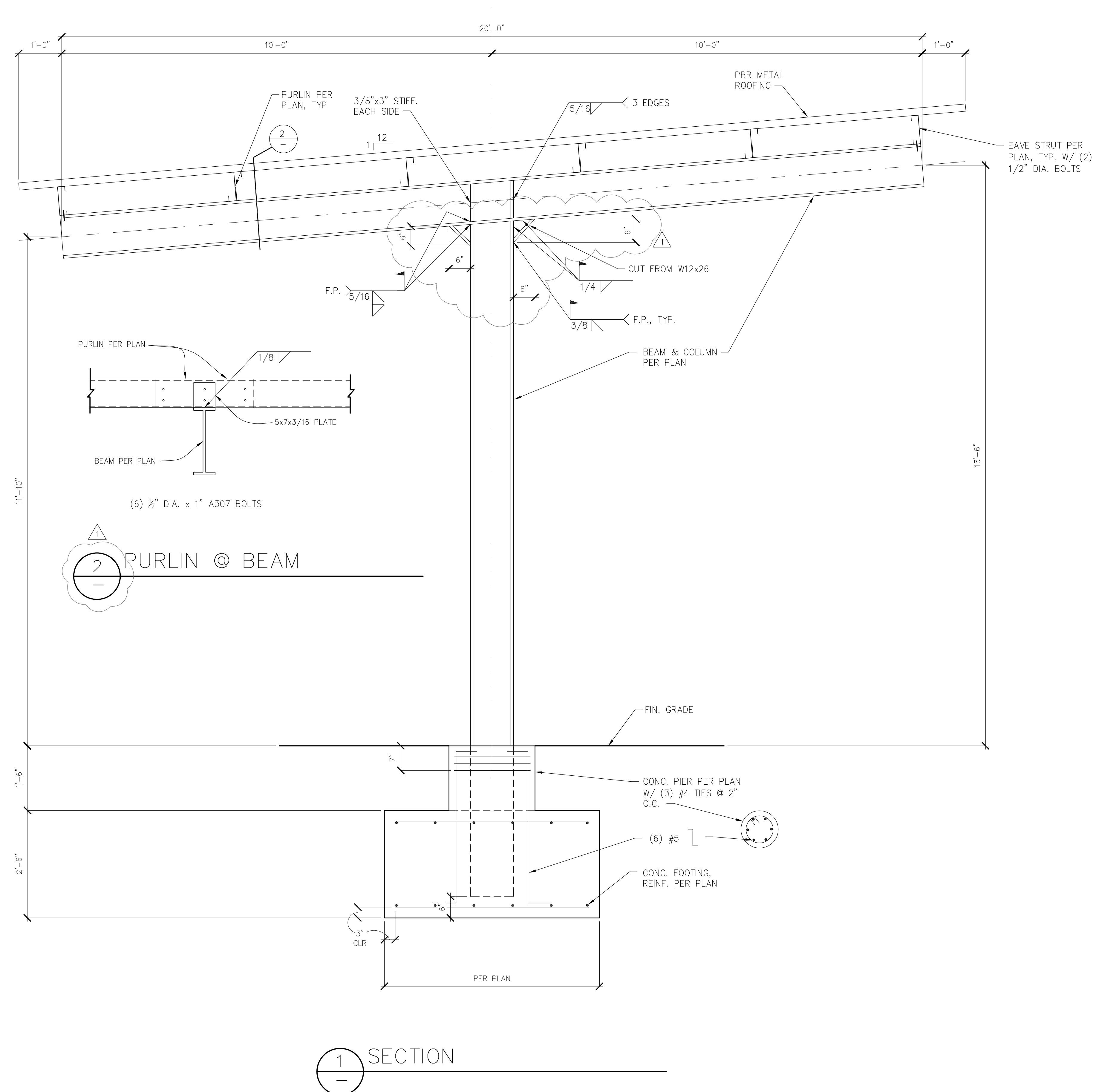
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April 8th, 201

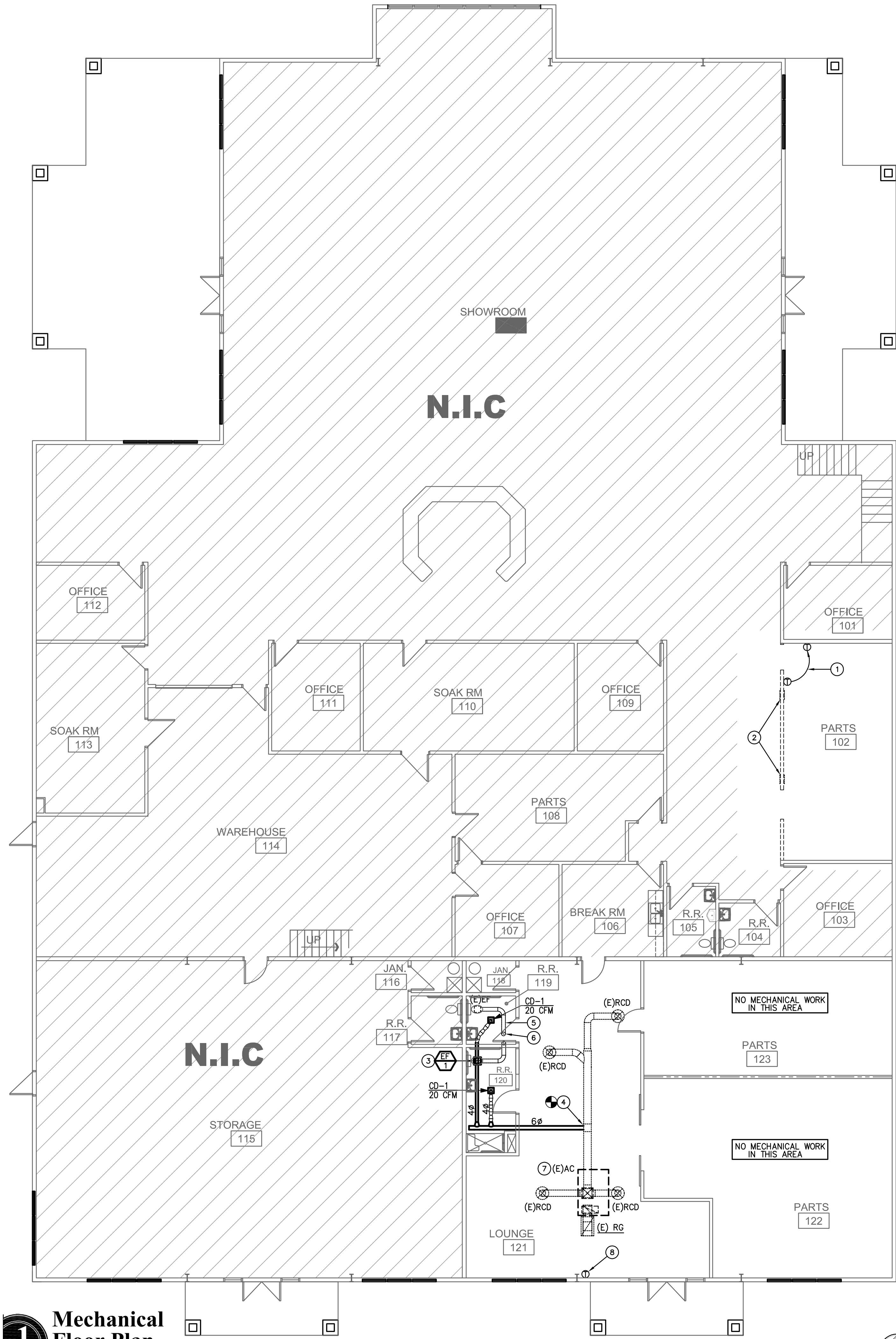
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Apr 08, 2022 - 3:09pm



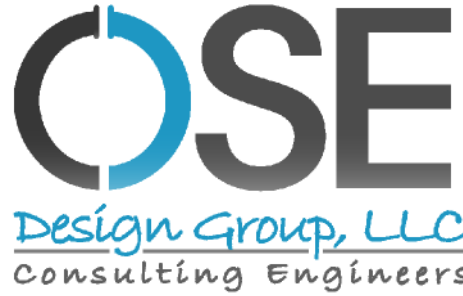
1 Mechanical Floor Plan

Scale: 1/8"=1'-0"



KEYNOTES

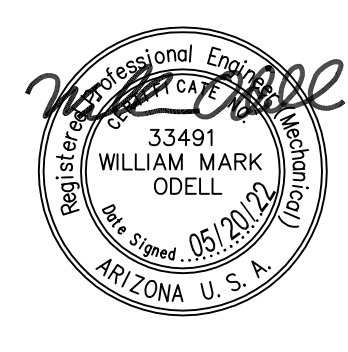
- 1 RELOCATE EXISTING THERMOSTAT OFF OF WALL BEING DEMOLISHED. COORDINATE FINAL LOCATION WITH ARCHITECT.
- 2 EXISTING WALL AND TRANSFER GRILLES TO BE DEMOLISHED.
- 3 CEILING MOUNTED EXHAUST FAN WITH BACK DRAFT DAMPER. FAN SHALL HAVE INDEPENDENT WALL SWITCH. ROUTE EXHAUST DUCT UP AND CONNECT TO EXISTING DUCT PENETRATING ROOF WITH 45° TAP. CONNECTION SHALL BE WITHIN 12" OF ROOF.
- 4 EXTEND NEW 6" SUPPLY BRANCH FROM EXISTING MAIN AND ROUTE TO OVER BATHROOMS. PAINT NEW DUCT TO MATCH EXISTING.
- 5 REPLACE EXISTING DAMAGED EXHAUST DUCT WITH NEW.
- 6 EXISTING 6" EXHAUST VERTICAL RISER TO REMAIN. EXTEND NEW EXHAUST DUCT VERTICALLY AND CONNECT TO EXISTING DUCT PENETRATING ROOF WITH 45° TAP. CONNECTION SHALL BE WITHIN 12" OF ROOF.
- 7 EXISTING ROOFTOP AC TO REMAIN.
- 8 EXISTING T-STAT TO REMAIN.



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ARCHITECTURE & PLANNING

DRAWING: Mechanical Floor Plan

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
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M1.1

MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS
GENERAL PROVISIONS WHICH MAKE SPECIFIC REFERENCE TO ELECTRICAL DIVISION ONLY ARE INCLUDED HEREIN FOR CLARITY AND SIMPLIFICATION OF SPECIFICATIONS WRITING AND ARE NOT PART OF THE MECHANICAL WORK. THE WORK OF DIVISION 15, MECHANICAL, IS SUBJECT TO THE CONDITIONS OF THE CONDITIONS OF THE CONTRACT, DIVISION 1, GENERAL REQUIREMENTS, AND APPLICABLE REQUIREMENTS OF OTHER PORTIONS OF THE CONTRACT DOCUMENTS. EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS AND COORDINATE THE MECHANICAL WORK ACCORDINGLY.

INTENT
IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ANY APPARATUS, APPLIANCE, MATERIAL OR WORK NOT SHOWN ON THE DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER. SHALL THERE APPEAR TO BE DISCREPANCIES OR QUESTIONS OF INTENT IN THE CONTRACT DOCUMENTS, REFER THE MATTER TO THE ARCHITECT FOR HIS DECISION BEFORE ORDERING ANY MATERIALS OR EQUIPMENT OR BEFORE THE START OF ANY RELATED WORK. THE DECISION OF THE ARCHITECT SHALL BE FINAL, CONCLUSIVE AND BINDING.

DRAWINGS AND DATA
DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS, CONDUITS, PIPING AND FIXTURES. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE APPROVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT IN BID PRICE.

CODES
INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS. DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES, STANDARDS AND STATUTES TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:

- A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.
- B. CITY OR OTHER APPLICABLE BUILDING CODES.
- C. 2018 INTERNATIONAL MECHANICAL CODE WITH LOCAL AMENDMENTS.
- D. REGULATIONS, PERMITS, INSPECTIONS: COMPLY WITH ALL APPLICABLE CODED, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

GENERAL
MATERIALS AND EQUIPMENT STANDARD PRODUCTS OF A REPUTABLE MANUFACTURER REGULARLY ENGAGED IN MANUFACTURE OF THE SPECIFIED ITEMS. WHERE MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SHOULD VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE, CONTACT ARCHITECT IMMEDIATELY SO THAT VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED. PROVIDE EQUIPMENT FROM MANUFACTURER WHOSE PRODUCTS HAVE LOCAL REPRESENTATION.

EXECUTION
PROTECT EXISTING ACTIVE SERVICES (WATER, GAS, SEWER, ELECTRIC) WHEN ENCOUNTERED, AGAINST DAMAGE FROM CONSTRUCTION WORK. DO NOT PREVENT OR DISTURB OPERATION OF ACTIVE SERVICES WHICH ARE TO REMAIN. IF WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, CONSULT WITH OWNER AS TO DATES, PROCEDURES, AND ESTIMATED DURATION OF AT LEAST 10 WORKING DAYS IN ADVANCE OF DATE WHEN WORK IS TO BE PERFORMED. ARRANGE WORK FOR CONTINUOUS PERFORMANCE TO ASSURE THAT EXISTING OPERATING SERVICES WILL BE SHUT DOWN ONLY DURING THE TIME REQUIRED TO MAKE NECESSARY CONNECTIONS. IF A SYSTEM CANNOT SHUT DOWN, INSTALL TEMPORARY BYPASSES OR JUMPERS UNTIL CONNECTIONS ARE COMPLETE. CONTRACTOR RESPONSIBLE FOR ALL COSTS INCURRED BY ABOVE SHUTDOWNS, INCLUDING BYPASS OR JUMPER INSTALLATIONS, FOR WORK PERFORMED UNDER THIS SECTION. IF EXISTING ACTIVE UTILITY SERVICES ARE ENCOUNTERED WHICH REQUIRE RELOCATION, MAKE REQUEST TO PROPER AUTHORITIES FOR DETERMINATION OF PROCEDURES. PROPERLY TERMINATE EXISTING SERVICES TO BE ABANDONED IN CONFORMANCE WITH REQUIREMENTS OF AUTHORITIES. WHERE CONNECTIONS OR DISRUPTIONS ARE MADE TO EXISTING SYSTEMS, REACTIVATE, REFILL, AND RECHARGE ALL COMPONENTS AND RESTORE SYSTEMS TO OPERATING CONDITIONS AT TIME OF DISRUPTION.

GUARANTEE
EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. ON FAILURE OF GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM OWNER, THE OWNER MAY HAVE THE WORK DOWN AT THE COST OF GUARANTOR. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER. PROVIDE EXTENDED FIVE (5) YEAR FACTORY PARTS & LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS.

AIR CONDITIONING, HEATING AND VENTILATING

SCOPE
WORK UNDER THIS SECTION INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE REMODELING, INSTALLATION AND PLACING INTO OPERATION THE HEATING, VENTILATING AND AIR CONDITIONING WORK AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

VERIFICATION OF DIMENSIONS:
SCALED AND FIGURED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY AT THE SITE, AND RESPONSIBLE FOR PROPERLY FITTING EQUIPMENT AND MATERIALS TOGETHER AND TO THE STRUCTURE IN SPACES PROVIDED. DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND MANY OFFSETS, BENDS, SPECIAL FITTINGS AND EXACT LOCATIONS ARE NOT INDICATED. CAREFULLY STUDY DRAWINGS AND PREMISES I ORDER TO DETERMINE BEST METHODS, EXACT LOCATIONS, ROUTES AND BUILDING OBSTRUCTIONS, PRESERVE HEADROOM, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR.

CUTTING AND PATCHING:
CUT EXISTING WORK AND PATCH AS NECESSARY TO PROPERLY INSTALL THE NEW WORK. AS THE WORK PROGRESSES, LEAVE NECESSARY OPENINGS, HOLES AND CHASES, ETC., IN THEIR CORRECT LOCATIONS. IF THE REQUIRED OPENINGS, HOLES AND CHASES ETC., ARE NOT IN THEIR CORRECT LOCATIONS, MAKE THE NECESSARY CORRECTIONS AT NO COST TO THE OWNER. AVOID EXCESSIVE CUTTING AND DO NOT CUT STRUCTURAL MEMBERS WITHOUT CONSENT OF ARCHITECT.

REGULATIONS, PERMITS & INSPECTIONS
COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL MECHANICAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.

DUCTWORK
ALL DUCTWORK FABRICATED AS PER LATEST INTERNATIONAL MECHANICAL CODE REQUIREMENTS AND SMACNA MANUAL. EXTENSION OF EXISTING DUCTWORK SHALL BE MADE WITH SOME MATERIAL. DUCTWORK SHALL BE CONSTRUCTED OF NEW HOT-DIPPED GALVANIZED SHEET METAL ASTM A-120 FOR EACH SIDE. TAPE ALL CROSS-JOINTS IN SHEET METAL DUCT WITH HARDCAST. TAKE-OFF FITTINGS SHALL BE CONICAL SPIN-IN WITH QUADRANT DAMPER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.

HVAC EQUIPMENT CONDENSATE DRAINS
USE TYPE M COPPER TUBING AND WROUGHT COPPER MECHANICAL FITTINGS. EXTEND DRAINS TO NEAREST ROOF DRAIN OR LAVATORY TAIL-PIECE (FURNISHED BY PLUMBER). SLOPE DRAIN AT A MINIMUM OF 1/8" PER FOOT.

EXHAUST FAN SCHEDULE

MARK	MOUNTING /LOCATION	MANUFACTURER	MODEL	CFM	E.S.P.	SONES @ 0.1"	MOTOR		BAROM. DAMPER	WIRE SCREEN	DRIVE	REMARKS
							AMPS	V/PH				
EF-1	CEILING	GREENHECK	SP-A90	60	0.25"	1.2	29.4 W	120/1	YES	YES	DIRECT	① ② ③
① PROVIDE UNIT WITH FACTORY SUPPLIED EXHAUST GRILLE. ② PROVIDE EXHAUST FAN WITH BACK DRAFT DAMPER. ③ UNIT SHALL BE CONTROLLED BY WALL SWITCH.												

GRILLES/REGISTERS/DIFFUSERS SCHEDULE

MARK	DESCRIPTION	MODULE SIZE	TYPE	OBD	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
CD-1	SUPPLY DIFFUSER	9x9	SQUARE CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	4ø NECK
NOTES: 1. NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE. 2. CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION. 3. MOUNTING HEIGHT OF GRILLES AND EXACT LOCATION OF ALL DIFFUSERS TO FIELD COORDINATED AND APPROVED BY OWNER. 4. VERIFY MAKE, MODEL AND COLOR OF ALL DEVICES WITH OWNER.										

GENERAL REQUIREMENTS

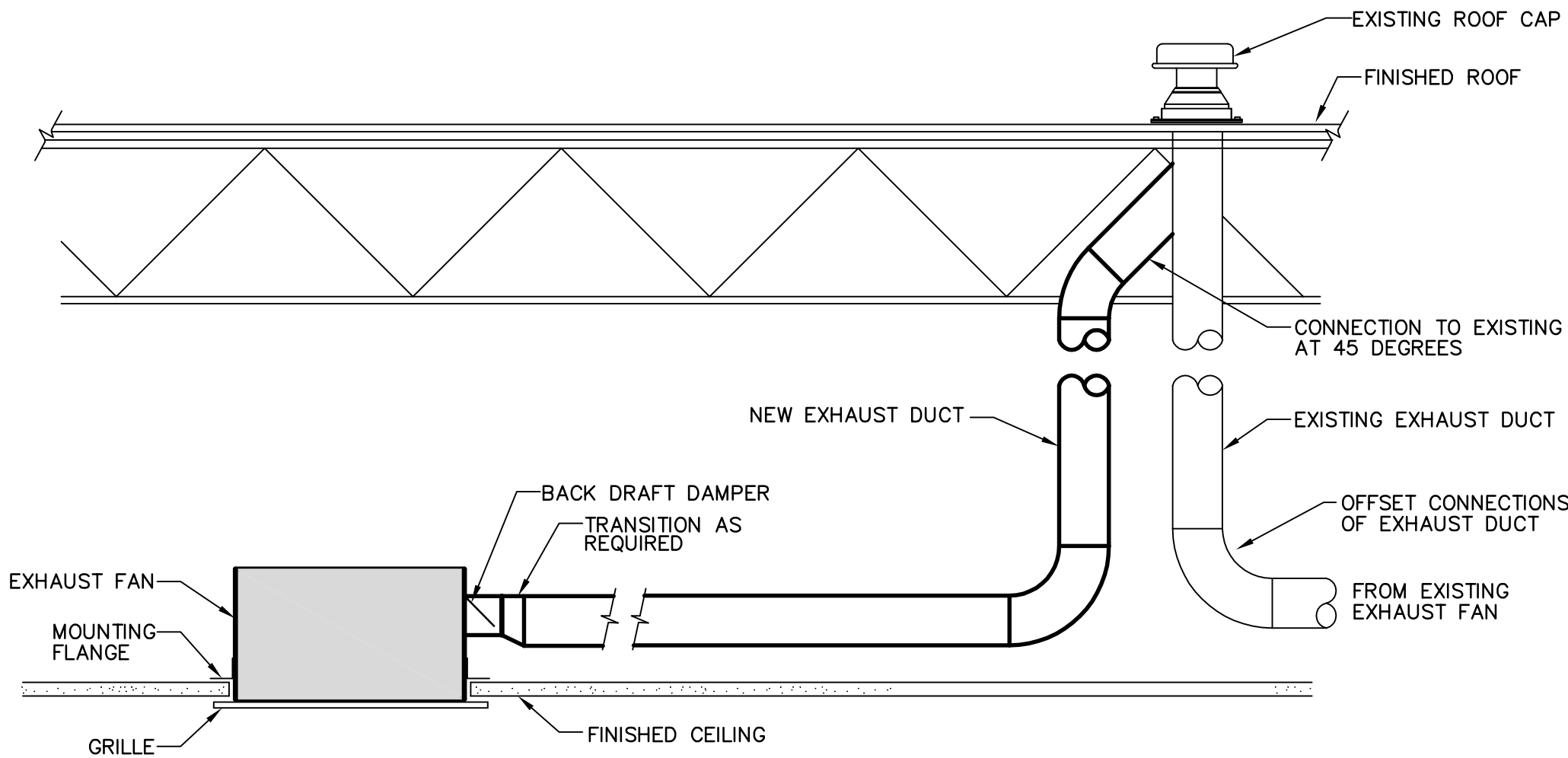
- 1 - PROVIDE CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS.
- 2 - PITCH DRAIN LINES 1/8" PER 12" RUN TOWARDS TERMINATION. INSULATE IN CONDENSATE DRAIN LINE WITH 3/8" CLOSED CELL "ARMIFLEX" TUBE INSULATION, TO PREVENT CONDENSATE DRIP.
- 3 - PRIOR TO THE CONTRACTOR ORDERING OR SETTING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH STRUCTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE EQUIPMENT.

DUCT CONSTRUCTION NOTES

- 1 - ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE" AND "SMACNA STANDARDS" AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING, MECHANICAL AND ENERGY CONSERVATION CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 2 - ALL DUCTWORK JOINTS SHALL BE SEALED WITH WATER-BASED MASTIC.
- 3 - HANGERS FOR SHEET METAL DUCTWORK SHALL BE INSTALLED AS REQUIRED BY 2018 IMC.

COORDINATION NOTES

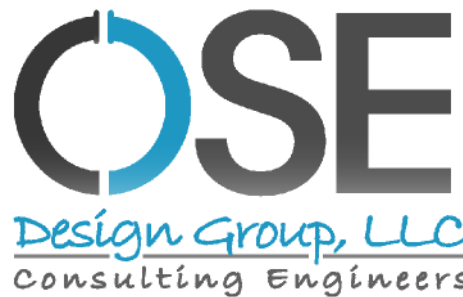
- 1 - COORDINATE OPENING'S FOR GRILLES, REGISTERS, DIFFUSERS AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.
- 2 - COORDINATE EXACT LOCATION OF ALL GRILLES, REGISTERS AND DIFFUSERS WITH ARCHITECTURAL PLANS.
- 3 - LIGHTING & SPRINKLER HEADS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT & SPRINKLER HEADS.
- 4 - CONTRACTOR TO COORDINATE THERMOSTAT AND EVAP CONTROL LOCATIONS WITH OWNER & ARCHITECT PRIOR TO MOUNTING.
- 5 - ALL THERMOSTATS ARE TO BE MOUNTED AT A HEIGHT OF 48" ABOVE THE FLOOR LEVEL FOR DISABLED ACCESS.



CEILING EXHAUST FAN DETAIL

NOT TO SCALE

1
M2.1



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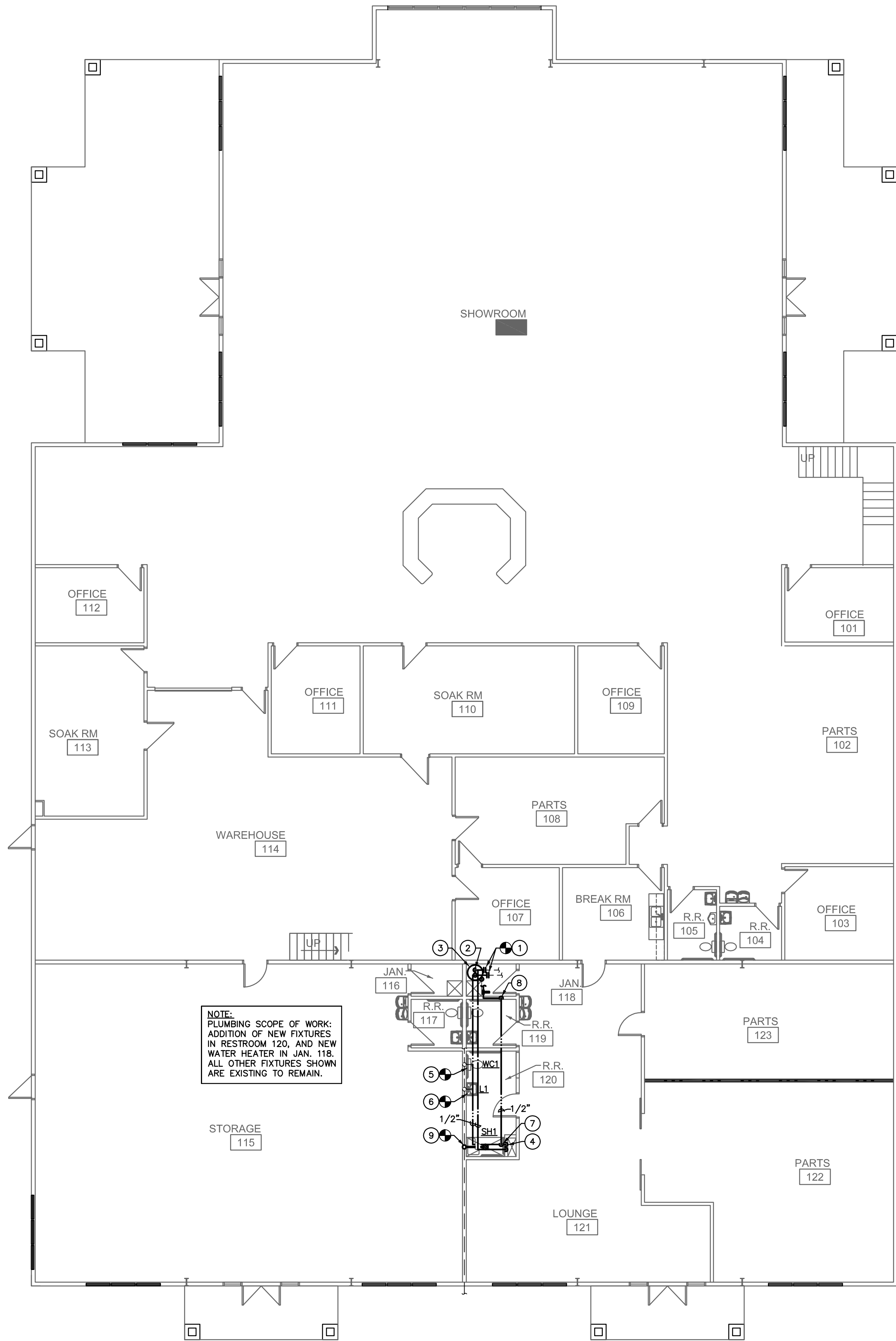
DRAWING: Mechanical Details, Schedules

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

APN: 103-08-045A

DRAWN BY
CHECKED BY
DATE
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NOTE:
PLUMBING SCOPE OF WORK:
ADDITION OF NEW FIXTURES
IN RESTROOM 120, AND NEW
WATER HEATER IN JAN. 118.
ALL OTHER FIXTURES SHOWN
ARE EXISTING TO REMAIN.

BUILDING IS EQUIPPED WITH AN EXISTING
REDUCED PRESSURE TYPE BACKFLOW
PREVENTER ON THE DOMESTIC WATER
SERVICE & A BACKWATER VALVE ON THE
EXISTING SEWER LINE.

KEYNOTES:

- CONNECT NEW 3/4" H & CW TO EXISTING SUPPLIES TO DEMOLISHED WATER HEATER.
- DROP WITH NEW 3/4" H & CW TO NEW WATER HEATER.
- ELECTRIC WATER HEATER WH-1 SEE DETAIL, SCHEDULE, SHEET P3.0. PROVIDE FULL SIZE P & T RELIEF DRAIN LINE, TERMINATE AT +2" ABOVE MOP SINK RIM WITH 90° ELBOW DOWN.
- 1/2" H & CW DOWN TO SHOWER.
- INSTALL NEW WATER CLOSET AT LOCATION OF EXISTING ROUGHED-IN WC. VERIFY EXISTING ROUGH-IN LOCATIONS.
- INSTALL NEW LAVATORY AT LOCATION OF EXISTING ROUGHED-IN LAV. VERIFY EXISTING ROUGH-IN LOCATIONS.
- 1/2" HWR OFF TOP OF HW SUPPLY. ROUTE BACK TO RECIRC. PUMP AT WATER HEATER.
- 1/2" HWR DOWN TO RECIRC. PUMP. SEE WATER HEATER DETAIL FOR PUMP SPEC. & CONTINUATION OF 1/2" HWR LINE.
- SAWCUT CONCRETE SLAB & CONNECT NEW 2" WASTE TO EXISTING WASTE FIELD. VERIFY EXACT SIZE & LOCATION OF EXIST. WASTE LINE. REPAIR CONCRETE SLAB.

NOTE:
SLOPE ALL HORIZONTAL WASTE
PIPING AS FOLLOWS:

FOR PIPE SIZES UP THROUGH 3",
SLOPE AT 1/4" PER FT.

FOR PIPE SIZES 4" & ABOVE,
SLOPE AT 1/8" PER FT.

PLUMBING NOTE:

ALL PLUMBING FIXTURES SHALL BE OF A
LOW-FLOW DESIGN WHICH LIMITS THE WATER
FLOW NOT TO EXCEED THE FOLLOWING:

WATER CLOSETS: 1.6 GALLONS PER FLUSH
LAV FAUCETS: .5 GALLONS PER MINUTE
SHOWERHEADS: 2.5 GALLONS PER MINUTE

NOTE:
LOCATIONS AND SIZES FOR ALL ITEMS
ARE BASED ON THE BEST INFORMATION
AVAILABLE. SOME ITEMS SHOWN ARE TO
INDICATE THE INTENT OF THE PLUMBING
SYSTEMS BUT MAY NOT NECESSARILY
REFLECT THE EXACT ROUTING AND
LOCATIONS. IT IS THE CONTRACTOR'S
RESPONSIBILITY TO FIELD VERIFY ALL
LOCATIONS AND SIZES OF THOSE ITEMS
REQUIRING MODIFICATIONS.

PLUMBING LEGEND		
SYMBOL	ABBR.	DESCRIPTION
	W	WASTE PIPING
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	BV	BALL VALVE
	FCO, SCO	FLOOR OR SURFACE CLEANOUT
	WCO	WALL CLEANOUT
	VTR	VENT THRU ROOF



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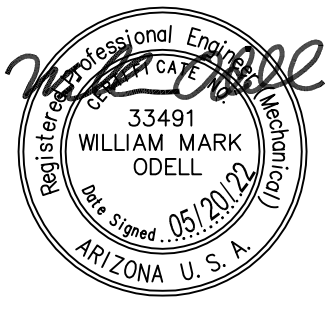
1 Plumbing Floor Plan

Scale: 1/8"=1'-0"



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ARCHITECTURE & PLANNING

DRAWING: Plumbing Floor Plan

PROJECT:
Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314
103-08-045A

APN:

DRAWN BY
CHECKED BY
DATE April 8th, 2022
JOB NO. 782
SHEET

P2.0

PLUMBING SPECIFICATIONS:

1. GENERAL
- 1.1 Scope: Work under this section includes coordinating and furnishing all labor and material necessary to install a complete plumbing system as shown and specified and in accordance with the codes. Contractor shall pay for all permits, meters, fees, city inspections, legal notices, etc., as required.
- 1.2 Submittals: Within 15 days after award of contract, submit 8 copies of all items.
- 1.3 Record Drawings: Provide a set to the Architect at completion of project.
- 1.4 Instructions: Provide maintenance manual and instruct Owner in the proper operation and maintenance of the equipment.
- 1.5 Guarantee: One year on labor, material and equipment.
2. PRODUCTS
- 2.1 Piping:
- 2.1.1 Water Lines:
- 2.1.1.1 Copper: Type "L" hard drawn, conforming to ASTM B88, for all water pipe not set under concrete or in the ground.
- 2.1.1.2 Copper: Type "K" soft drawn, conforming to ASTM B88, for water pipe set in or under concrete or in the ground. Provide plastic sleeve for each piping penetration through concrete slab.
- 2.1.1.3 Fittings: Wrought copper conforming to ANSI B16.22.
- 2.1.2.1 Plastic: If permitted by Administrative Authority, IAPMO approved, NSF-61 listed, crosslinked polyethylene (PEX) tubing, equal to Watts "WaterPEX" system is acceptable for potable water piping.
- 2.1.2 Sanitary Waste and Vent System Piping:
- 2.1.2.1 Cast Iron conforming to CISPI Standard 301-95 and ASTM A-888 for all no-hub pipe and fittings installed above and below grade.
- 2.1.2.2 Galvanized Iron: Standard weight, Schedule 40 galvanized iron conforming to ASTM A-120 for all vent lines 2-1/2" or smaller.
- 2.1.2.3 Fittings (Waste and Vent and Storm Drainage System, no-hub cast iron): No-hub cast iron drainage pattern fittings conforming to CISPI #301-95.
- 2.1.2.4 Fittings (Waste and Vent, galvanized steel): Threaded cast iron fittings conforming to ANSI B16.4.
- 2.1.2.5 Couplings (Waste and Vent, above and below grade): Double band, stainless steel couplings conforming to CISPI 310-95, with neoprene gasket conforming to ASTM Standard C564 (NOTE: Screened stainless shield is not approved).
- 2.1.2.6 Plastic: Subject to Owner approval, Schedule 40 PVC plastic piping conforming to ASTM D2665-88 is acceptable for sanitary waste and vent and storm drainage piping installed below grade or slab. Fittings: Drainage fittings to match pipe.
- 2.2 Pipe Hangers and Supports: Fee & Mason Figure 103 clevis hanger for insulated pipe and Figure 104 clevis hanger for cast iron pipe. Install #500 Trisolators on uninsulated copper lines at all hangers and wall penetrations.
- 2.3 Pipe Insulation: Use fiberglass premolded insulation with all-service jacket, minimum density of 3.5 pcf. Provide an additional 8-ounce canvas jacket with Arabol finish around all exposed pipe insulation. Cover fittings and valves (except unions) with insulation cement worked on in two applications to a smooth, hard surface, flush with pipe covering. Provide 8" long, 20 gauge, galvanized iron metal insulation guards at locations of hanger rods and supports. Provide 12" long rigid insulation blocks on bottom half of pipe 1" and larger at hangers. Insulation wall thickness shall conform to the following schedule:
- Domestic Hot and Hot Water Recirculating Lines:
- Mains and horizontal branches - 1" thickness.
- Drops in walls and partitions - 1" thickness.
- 2.4 Valves:
- 2.4.1 Ball Valves: Stockham S-216-BR-RS for all valves up to 2" in diameter, with solder end joints with extended solder cups shall be 600 psi CWP, cast brass body, replaceable Teflon seats, conventional port, blowout-proof stems, and chrome-plated brass ball.
- 2.4.2 Trap Primers: Precision Plumbing Products Model P2-500, cast brass body with 1/2" NPT connection. Install in accessible location near access panel. Provide 1" air gap at pipe connection in accordance with local codes. Coordinate location with Architect.
- 2.5 Cleanouts:
- 2.5.1 Concrete and Tile Floors: J.R. Smith 4023, with scoriated nickel-bronze top.
- 2.5.2 Cleanouts (exposed vertical piping): J.R. Smith 4512 cast iron branch cleanout tee with bronze plug.
- 2.5.3 Interior Finished Walls: J.R. Smith 4532.
- 2.5.4 Exterior Surface Cleanouts: J.R. Smith 4253. Provide 18" x 18" x 6" concrete pad at landscape areas; provide concrete ring below grade at asphalt areas.
- 2.5.5 Provide all cleanouts with heavy threaded bronze plugs.
- 2.6 Plumbing Fixtures: Use polished chrome-plated, adjustable brass P-traps with wall escutcheons at all exposed locations. Use polished chrome-plated faucets with removable trim, brass body and brass handles. Fixtures and supply fitting shall be of one manufacturer. Provide diaphragm type, polished chrome-plated flush valves with integral vacuum breakers and screwdriver stops. Provide fixture stops or valves ahead of all equipment or fixtures. After fixtures are set in place and secured to walls, caulk all around between fixtures and wall with either Dow Corning #780 or G.E. Construction Sealant white silicone caulking compound. See Plumbing Fixture Specification Schedule on drawings for complete fixture specification.
- 2.7 Acceptable Manufacturers: The following is a list of manufacturers whose equipment is acceptable as to manufacturer, subject to conformance with all drawings, specifications and addenda items:
- Fixtures: American Standard, Eljer, Kohler.
- Electric Water Heaters: Ruud, A.O. Smith, Lochinvar.
- Valves: Crane, Kennedy, Stockham, Grinnell, Milwaukee, Wolverine.
- Hose Bibbs: Acorn, Chicago, Woodford.
- P-Traps: Crane, Kohler, Eljer, Frost, McGuire.
- Supply Fittings: Chicago, American Standard, Eljer, Speakman, Kohler.
- Supply Stops: Eastman, Kohler, Eljer, Brasscraft, McGuire.
- Closet Seats: Sperzel, Olsonite, Beneke, Bemis.
- Drains and Cleanouts: J. R. Smith, Zurn, Josam, Wade, Western.
- Hangers: Grinnell, Fee & Mason, Elcen, Kin-Line, F & S, B-Line, Michigan.

3. EXECUTION
- 3.1 Tests and Inspections:
- 3.1.1 All work to be tested and approved before covering as directed by Architect. Remake all leaking joints.
- 3.1.2 Water System: 150 psi hydrostatic pressure held for four hours.
- 3.1.3 Sanitary Waste and Vent System: Fill with water to highest point in the system and let stand without loss for two hours.
- 3.1.4 Sterilization (Domestic Water System): After tests have been completed, the entire domestic water distribution system shall be thoroughly flushed with water until all entrained dirt and mud have been removed, and shall be sterilized with solutions of either liquid chlorine conforming to Federal Specification BB-8-120 or hypochlorite conforming to Fed. Spec. Q-C-114, Type II, Grade C, or Fed. Spec. Q-S-602, Grade A or B. The chlorinating material shall provide a dosage of not less than 50 parts per million and shall be introduced into the system in an approved manner, and retained in the system for 8 hours before flushing.
- 3.2 Flashing, Sleeves and Escutcheon Plates:
- 3.2.1 Flashing: Supply flashing for all vent pipe and other types of piping through roof to be installed with roofing. Flash vents with Stoneman S1300-4 or with sheet lead weighing not less than 4 pounds per square foot or equal. Extend flashing into roofing at least 10" from vent and turn flashing over and down into vent opening.
- 3.2.2 Sleeves: Use 20 gauge galvanized steel sleeves around pipes passing through masonry walls and concrete slabs.
- 3.2.3 Escutcheon Plates: Install cast brass split ring with setscrew at all locations where exposed pipes pass through walls, floors and/or ceilings. Provide polished chrome-plated escutcheons in finished rooms, all others polished brass.
- 3.3 Underground Water Piping: Bury all underground water piping a minimum of 24" below finished grade. Install copper lines below concrete floors so that no joints occur below floor and wrap with 20 mils of polyethylene tape with a minimum of 50% overlap.
- 3.4 Electrical: Wiring by Electrical Contractor.

PLUMBING FIXTURE SPECIFICATIONS	
	DESCRIPTION
WC1	WATER CLOSET (ADA COMPLIANT): FIXTURE: AMERICAN STANDARD 2386.012, 1.6 GALLONS PER FLUSH, 16-1/2" HIGH RIM, FLOOR MOUNT, VITREOUS CHINA, ELONGATED BOWL. SEAT: CHURCH 9500 WHITE OPEN FRONT SEAT WITH CONCEALED CHECK HINGE & WITHOUT COVER. SUPPLIES: EASTMAN C5CR-20-LK, 1/2" x 3/8" ANGLE STOP WITH FLEXIBLE TUBE RISER.
L1	LAVATORY (WALL HUNG- ADA COMPLIANT): FIXTURE: AMERICAN STANDARD, MODEL No. 0355.012, WALL HUNG, 20" x 18" VITREOUS CHINA, FRONT OVERFLOW. PROVIDE CAST-IRON WALL HANGER BOLTED TO WALL. FAUCET: MOEN 8400 SINGLE LEVER DECK MOUNTED FAUCET WITH BLADE TYPE ADA HANDLE. SUPPLIES: EASTMAN C5CR-15-LX, ANGLE STOPS WITH FLEXIBLE TUBE RISERS. WASTE: MCGUIRE 15SWC OFFSET WHEELCHAIR LAVATORY STRAINER WITH GRID DRAIN, CAST BRASS ELBOW AND OFFSET TAILPIECE. TRAP: MCGUIRE 8902, 1-1/4" x 1-1/2" CAST BRASS P TRAP. INSULATE EXPOSED WATER AND WASTE PIPING WITH TRUEBRO LAV-GUARD INSULATION KIT, MODEL 102, WITH ACCESSORY #105.
SH1	SHOWER (HANDICAPPED ACCESSIBLE): FIXTURE: AQUATIC MODEL No. 1603BFSD, BARRIER-FREE ONE PIECE ACRYLIC SHOWER MODULE, COMPLETE WITH WITH 2 STAINLESS STEEL GRAB BARS, FOLD-UP SEAT, CURTAIN ROD AND SHOWER CURTAIN, 2" CHROME PLATED CAST BRASS SHOWER DRAIN. SHOWER VALVE: POWERS 4710-0-0-L-O-W, THERMOSTATIC AND PRESSURE BALANCED SHOWER VALVE WITH INTEGRAL SERVICE STOPS, HIGH LIMIT STOP, C.P. METAL TRIM, 30" SLIDE BAR, 60" METAL HOSE, LOW-FLOW (1.5 GPM) HAND SHOWER AND IN-LINE VACUUM BREAKER. ASSE1015 AND IAPMO cUPC LISTING. PROVIDE 2" P TRAP.
WH1	ELECTRIC WATER HEATER: PPROVIDE UL LISTED ELECTRIC WATER HEATER OF SIZE, CAPACITY AND MAKE AS SCHEDULED. HEATER SHALL BE WARRANTED FOR A MINIMUM OF 5 FULL YEARS AFTER FINAL ACCEPTANCE OF THE BUILDING. FURNISH HEATER WITH THE FOLLOWING ACCESSORIES: 1. ASME COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE RATED IN EXCESS OF HEATER INPUT. RUN FULL SIZE DRAIN TO TERMINATE AS SHOWN ON DRAWINGS. 2. AUTOMATIC THERMOSTAT ACTUATED CONTROLS WITH 100% SHUTOFF. 3. HIGH-LIMIT CONTROLS. 4. TANK DRAIN. 5. BRASS NIPPLES FOR PIPE CONNECTIONS. 6. HEATER SHALL BE FACTORY INSULATED AND SHEET METAL JACKETED.

ELECTRIC WATER HEATER SCHEDULE								
MARK	MANUFAC.	MODEL	STORAGE CAPACITY IN GALS.	KW INPUT	VOLTAGE/ PHASE	GALLON PER HR. REC. AT 60° F T.R.	WATER OUTLET TEMP °F	REMARKS
WH-1	RHEEM	ELD40	40	4.5/4.5	208/1	18.5	140	NON SIMULTANEOUS WIRING

FIXTURE CONNECTION SCHEDULE							
MARK	DESCRIPTION	TRAP SIZE	W	V	CW	HW	REMARKS
WC1	WATER CLOSET (ADA)	INTEGRAL	3"	2"	1"	–	FLOOR MOUNTED, FLUSH TANK, 1.6 GPF
L1	LAVATORY (ADA)	1–1/4" x 1–1/2"	2"	1–1/2"	1/2"	1/2"	WALL MOUNTED
SH1	SHOWER (ADA)	2"	2"	1–1/2"	1/2"	1/2"	

PLUMBING GENERAL NOTES:

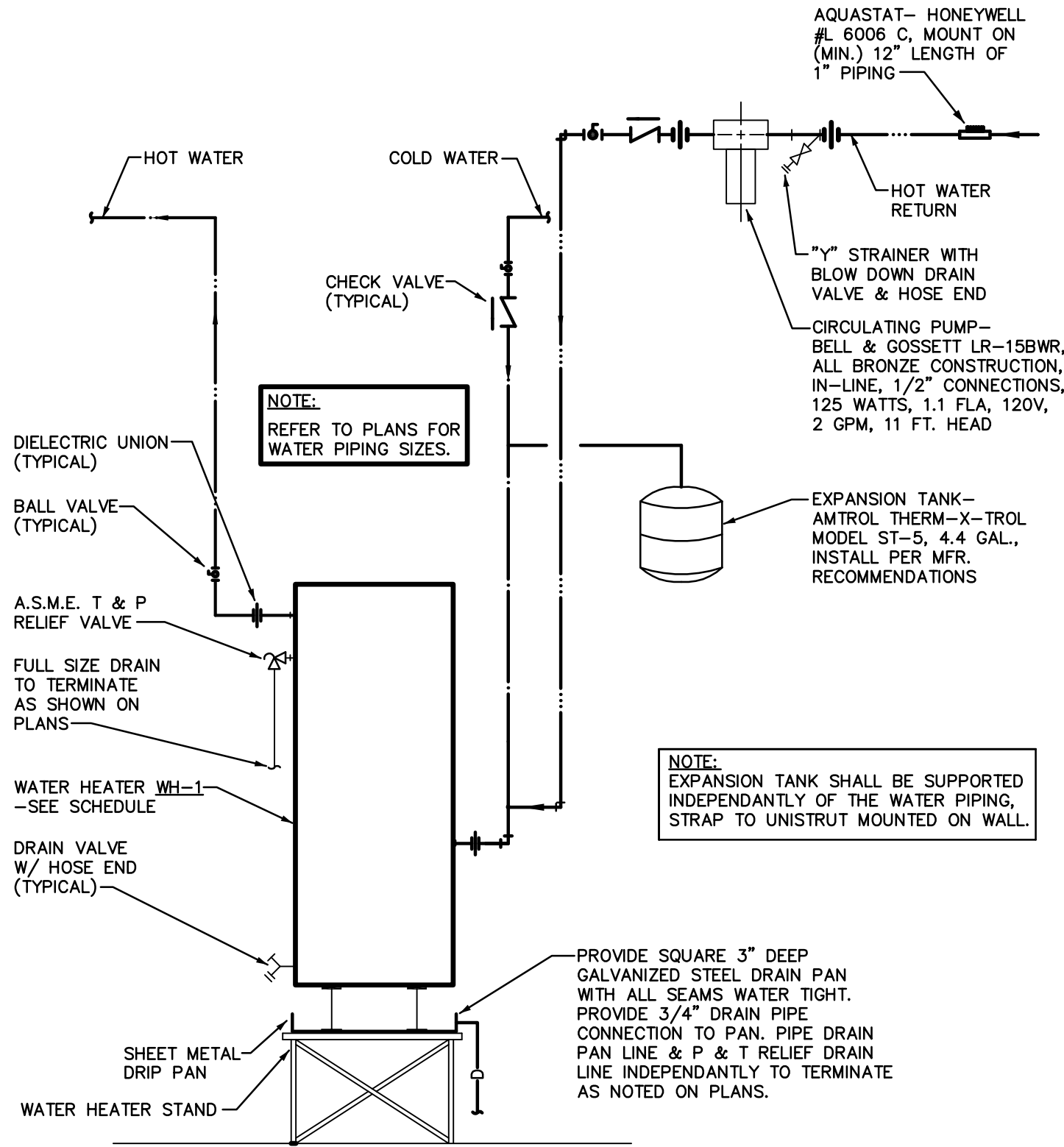
1. ALL PLUMBING WORK SHALL COMPLY WITH THE MOST STRINGENT OF APPLICABLE CODES, ORDINANCES, OR THE SPECIFICATIONS.
2. DETERMINE EXACT LOCATION & MOUNTING HEIGHT OF PLUMBING FIXTURES FROM ARCHITECTURAL DRAWINGS.
3. COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
4. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS & INCLUDE IN HIS BID AN AMOUNT TO FURNISH & INSTALL ANY FIXTURES SHOWN IN ADDITION TO PLUMBING DRAWINGS.
5. PROVIDE VACUUM BREAKERS ON HOSE BIBBS & ALL HOSE END FITTINGS.
6. LOCATE ALL VENTS THROUGH ROOF 10'-0" FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
7. VERIFY INVERT ELEVATIONS (WASTE LINES), SIZES, & LOCATIONS OF ALL EXISTING GAS, WATER & WASTE LINES TO WHICH NEW PIPING CONNECTS PRIOR TO MAKING-UP OR INSTALLATION OF PIPING.
8. LOCATE ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER EQUIPMENT REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENTS, INSPECTION, REMOVAL OR REPLACEMENT SO AS TO BE ACCESSIBLE WITH REFERENCE TO THE FINISHED BUILDING.
9. ROUGH-IN ALL WATER & WASTE PIPING TO SPECIAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS' SHOP DRAWINGS. VALVE ALL SUPPLIES AND MAKE FINAL CONNECTIONS.
10. INSTALL APPROVED DIELECTRIC ISOLATORS AT ALL CONNECTIONS OF DISSIMILAR METALS.
11. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH ROOF.
12. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT.

WATER CALCULATION SUMMARY

EXISTING 1-1/2" WATER METER TO PROVIDE 60 GPM.
60 GPM. = 175 FIXTURE UNITS (FU) FOR PREDOMINANTLY FLUSH TANK SYSTEM.

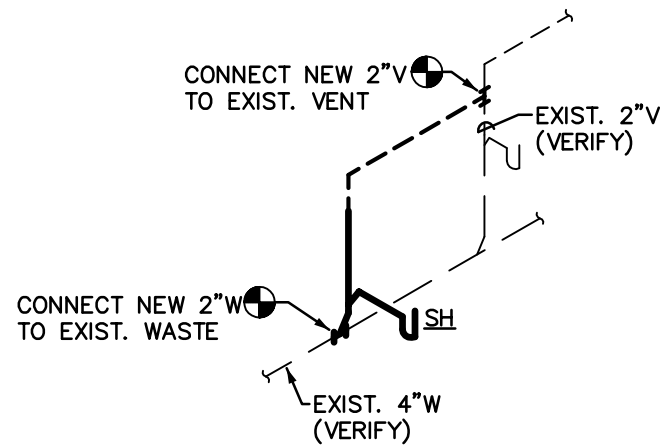
FIXTURE UNITS USED TO DATE: 53 FU
FIXTURE UNITS USED FOR THIS PROJECT: 11 FU
TOTAL FU USED: 64 FU
175 FU - 64 = 111 FU REMAINING

ALL PIPING SIZED PER ORIGINAL BUILDING WATER CALCULATION OF 5.3 PSI ALLOWABLE DROP PER 100 FEET.



WATER HEATER DETAIL

NO SCALE



WASTE AND VENT SCHEMATIC

NTS



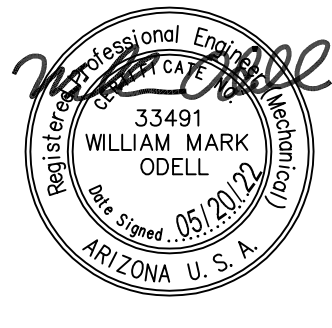
611 West Delano Ave
Prescott, AZ 86301
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Project #22016

11759 N. 143rd Ave.
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(623) 444-6143

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Plumbing Details; Schedules

PROJECT:

Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

APN:

103-08-045A

DRAWN BY

CHECKED BY

DATE
April 8th, 2022
JOB NO.
782
SHEET

P3.0

Aug 08, 2022 - 10:59pm

ABBREVIATIONS	
EX	EXISTING LIGHT OR DEVICE TO REMAIN
RE	EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER	REPLACED OR RELOCATED LIGHT OR DEVICE
RM	REMOVED LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR ($\frac{1}{2}$ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE ($\frac{1}{2}$ OF OUTLET)
E.C.	EMPTY CONDUIT
UNO	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS
NL	NIGHT LIGHT
TYP	TYPICAL

NOTE:
ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SITE PRIOR TO BID TO CONFIRM ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND ABANDONED.

GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED OR UNUSED CONDUIT & WIRING ETC. BACK TO PANEL.

Schedule								
Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Lumens Per Lamp	Light Loss Factor	Wattage
	A	Lithonia Lighting	WL4 30L EZ1 LP835	WL4 4ft 3000 NOMINAL LUMENS 3500K	LED	3095	0.91	28.19
	B	Lithonia Lighting	WL2 22L EZ1 LP835	WL2 2ft 2200 NOMINAL LUMENS 3500K	LED	2120	0.91	21
	C	Lithonia Lighting	LDN4 35/10 L04AR LSS WL MVOLT EZ10	4 INCH LED DOWNLIGHT SHOWER FIXTURE RATED	LED	1028	0.91	18.75
		Lithonia Lighting	ELMLT W LP06VS LTP	QUANTUM LED EMERGENCY TWIN-HEAD UNIT WALL MOUNT	LED			10.8

ELECTRICAL SYMBOLS	
NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT	
	FLUORESCENT STRIP FIXTURE.
	CEILING OR WALLMOUNTED FIXTURE.
	JUNCTION BOX
	S SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)
	S3 THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)
	D DUPLEX RECEPTACLE, + 18" A.F.F. (20A) D-INDICATES DEDICATED RECEPTACLE
	DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURERS RECOMMENDATION. OUTSIDE NEMA 3R - N.F. = NON-FUSED.
	EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
	MOTOR
	THERMAL PROTECTED SWITCH
	DISTRIBUTION PANELBOARD.
	BRANCH CIRCUIT PANELBOARD.
	CONDUIT BELOW FLOOR OR UNDERGROUND
	CONDUIT IN WALL OR ABOVE CEILING
	HOMERUN TO PANEL

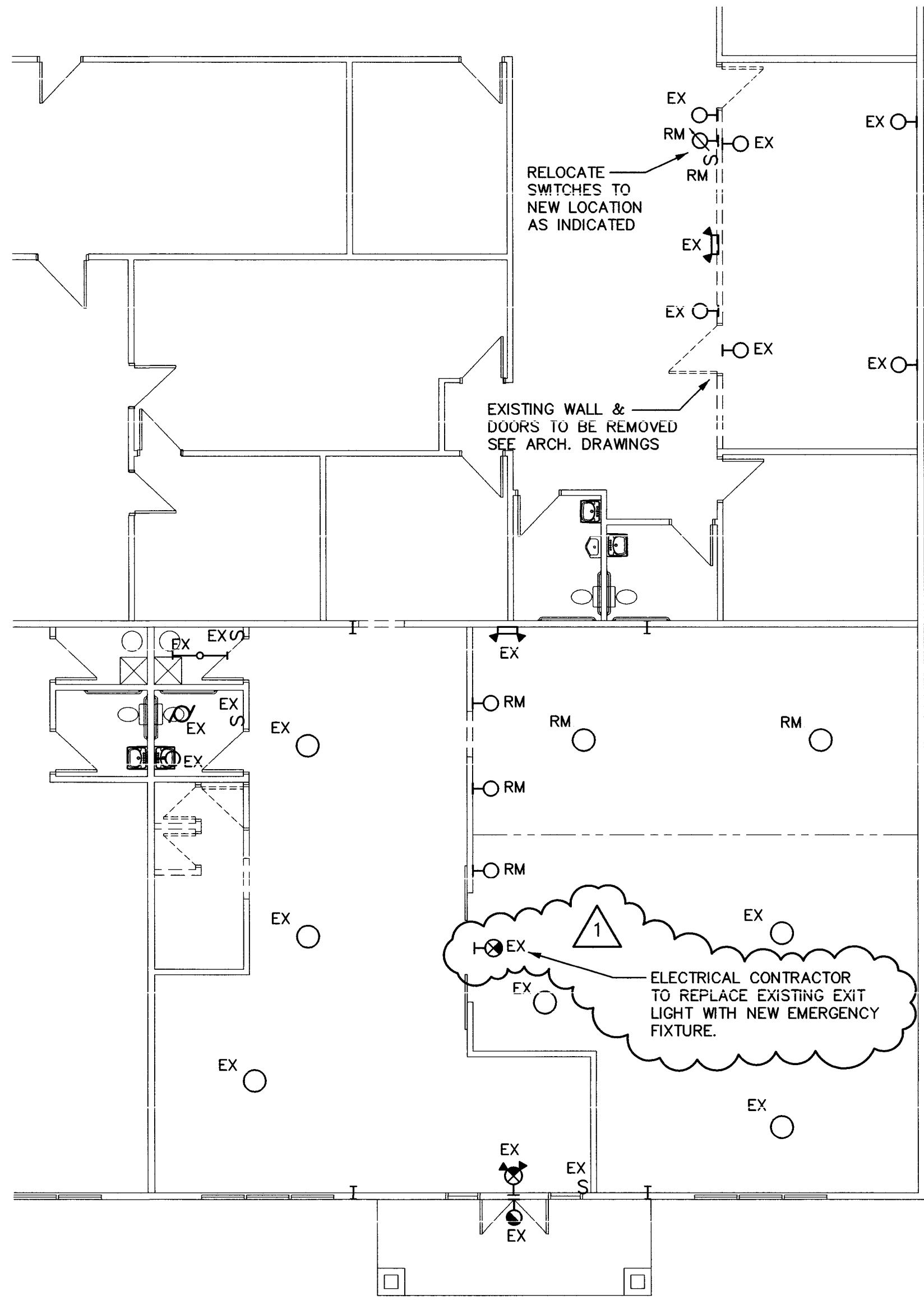
SPECIFICATIONS

- PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12.
- ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.L. APPROVED AND COMMERCIAL GRADE.
- WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

GENERAL LIGHTING NOTES:

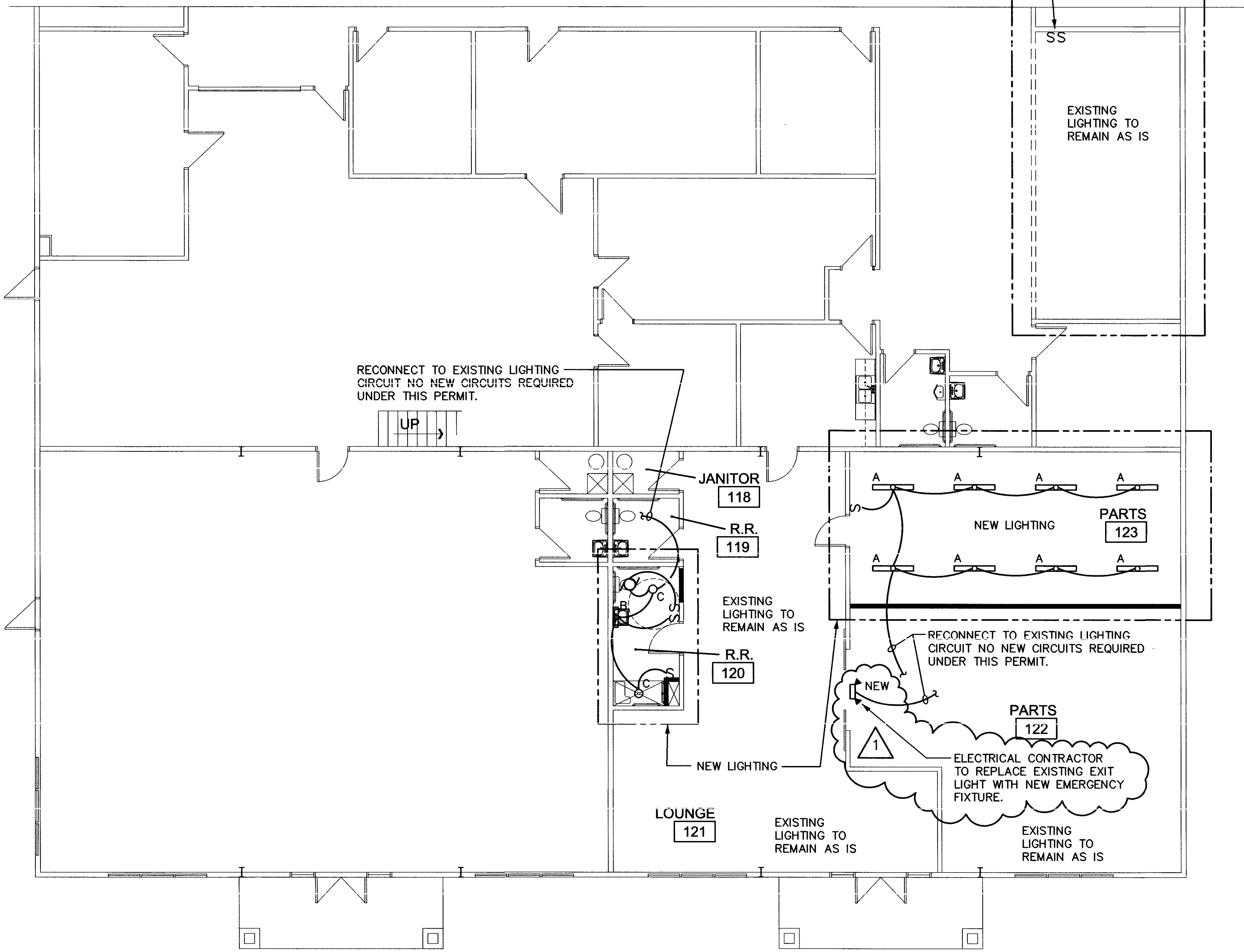
- CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL LIGHTING FIXTURES AND SWITCHES WITH OWNER PRIOR TO ROUGH-IN.
- NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
- ROMAX IS NOT ALLOWED.
- EXTERIOR LIGHTING IS EXISTING AND SHALL REMAIN AS IS. NO ADDITIONAL LIGHTING IS REQUIRED UNDER THIS PERMIT U.N.O..

NOTE:
NO NEW LOAD ADDED UNDER THIS PERMIT LOAD REMOVED IS GREATER.



Demo Lighting Floor Plan

Scale: 1/8"=1'-0"



Proposed Lighting Floor Plan

Scale: 1/8"=1'-0"

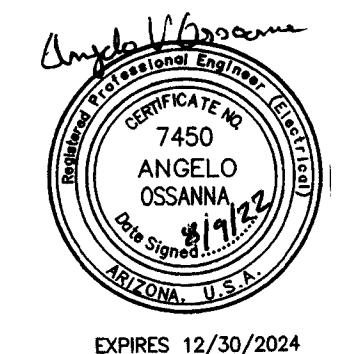


ELECTRICAL DESIGN & CADD SERVICES INC.
1600 LAMB LANE
PRESCOTT, AZ. 86305
PH: (928) 778-4900
CELL (928) 420-1200
E-MAIL: archie@elecdesign.net

JOB# 22-23

REVISIONS	BY
	CITY COMMENT 8-9-2022

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ARCHITECTURE & PLANNING

DRAWING: Electrical Lighting Floor Plan

PROJECT:

Arizona Hol Tub Company
6847 E. 1st St.
Prescott Valley, AZ 86314

APN:

103-08-045A

DRAWN BY

CHECKED BY

DATE

April 8th, 2022

JOB NO.

782

SHEET

E1.1

Aug 08, 2022 - 10:06pm

NOTE:
ELECTRICAL CONTRACTOR SHALL
FIELD VERIFY SITE PRIOR TO BID
TO CONFIRM ALL EXISTING ELECTRICAL
EQUIPMENT TO BE REMOVED AND
ABANDONED.

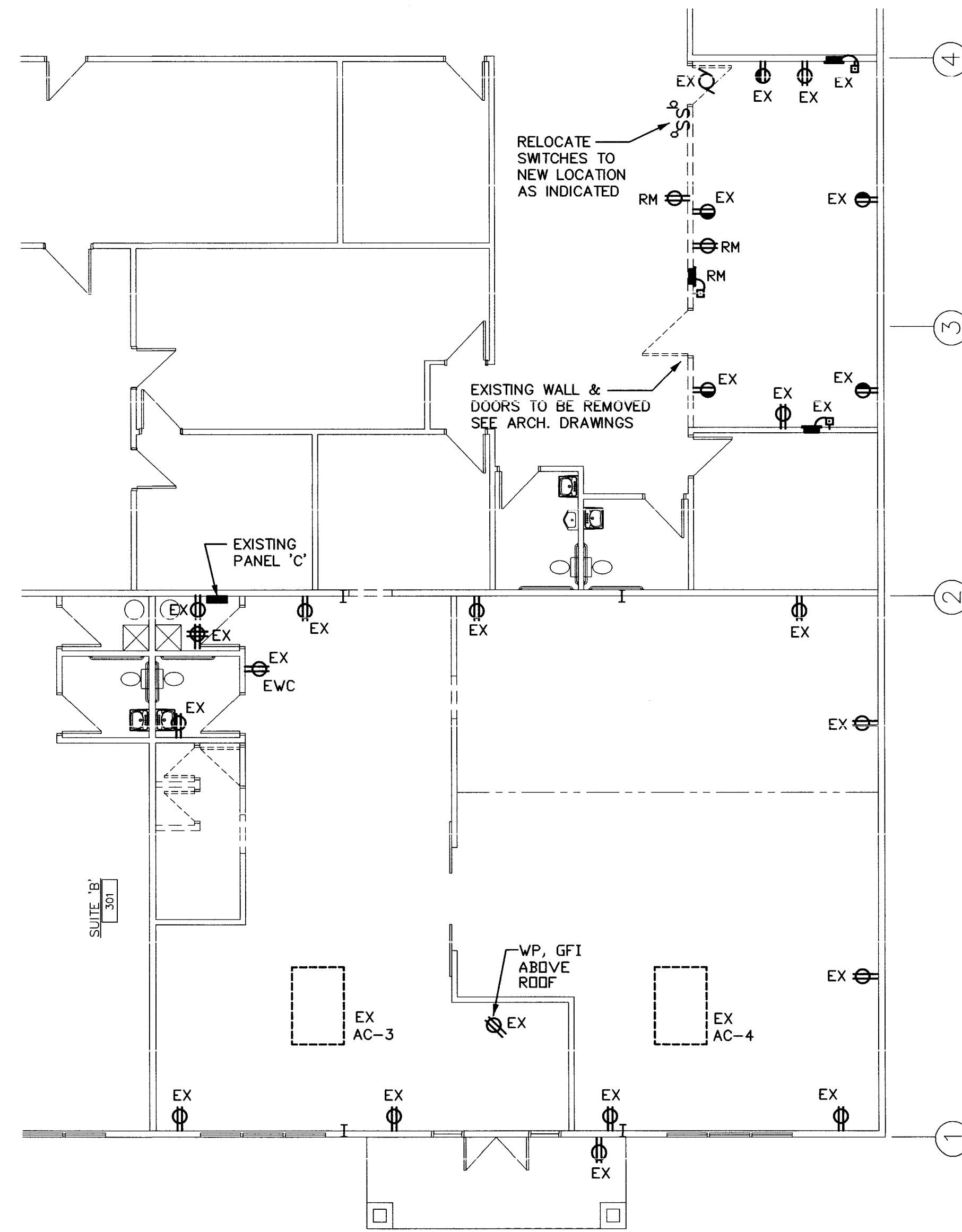
GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL
REMOVE ALL ABANDONED OR UNUSED
CONDUIT & WIRING ETC. BACK TO PANEL.

ABBREVIATIONS

EX	EXISTING LIGHT OR DEVICE TO REMAIN
RE	EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER	REPLACED OR RELOCATED LIGHT OR DEVICE
RM	REMOVED LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR (ϕ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE (ϕ OF OUTLET)
E.C.	EMPTY CONDUIT
UNO	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS
NL	NIGHT LIGHT
TYP	TYPICAL

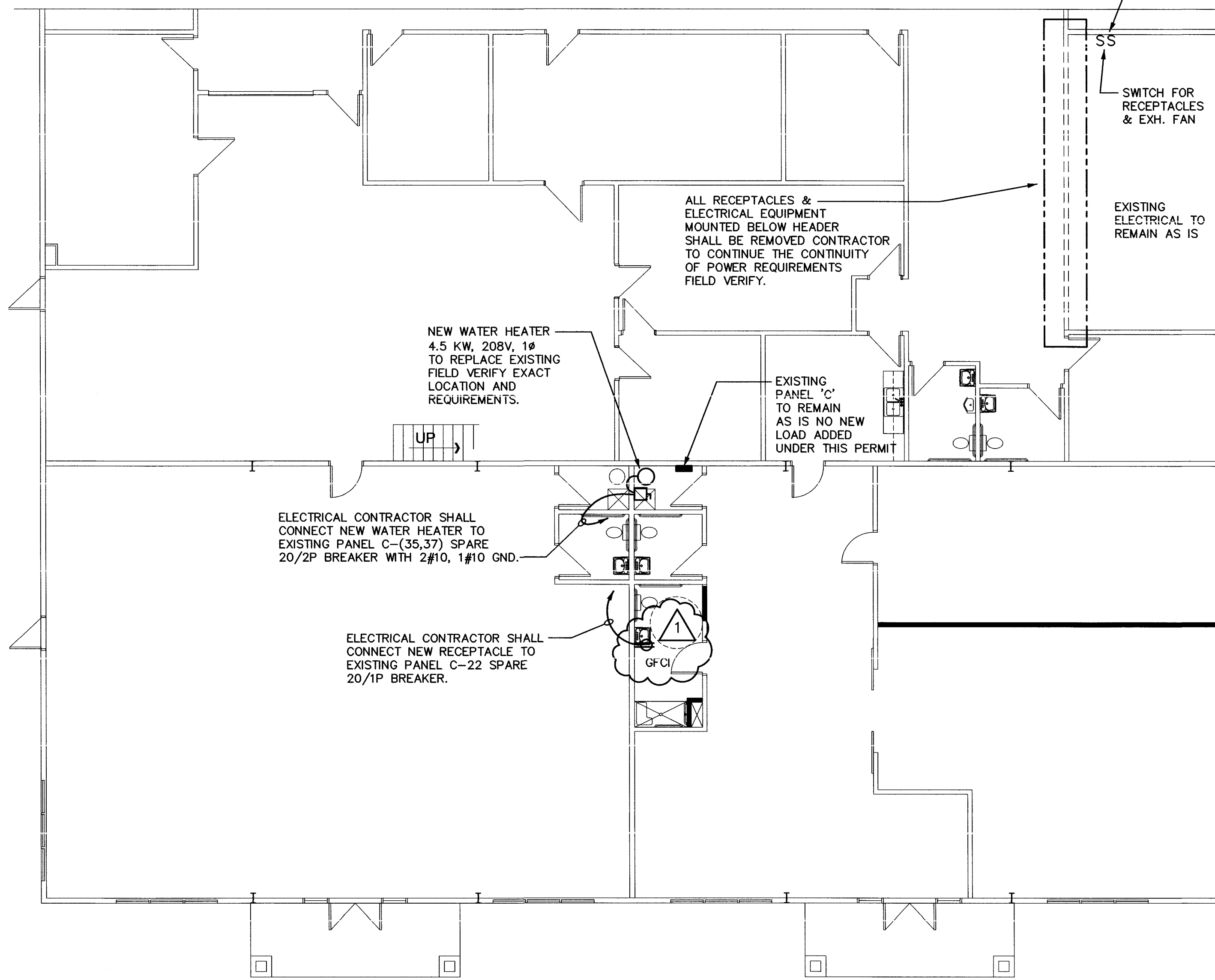
GENERAL POWER NOTES:

1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN
OF MOUNTING HEIGHTS, LOCATIONS OR RUN INTO
CONFLICTS OF RECEPTACLES OR DEVICES HE
IS TO VERIFY ITEMS WITH ELECTRICAL ENG.,
2. ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING
CIRCUITS WHEN POSSIBLE OR AS INDICATED.
3. ALL RECEPTACLES IN AREAS WITH-IN
6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
4. EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE
WP, GFCI TYPE PER NEC
5. ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL
EQUIPMENT REQUIREMENTS. EXISTING EQUIPMENT TO BE
REUSED NO NEW UNIT REQUIRED UNDER THIS PERMIT.



Demo Power Floor Plan

Scale: 1/8"=1'-0"



Proposed Power Floor Plan

Scale: 1/8"=1'-0"



EXISTING PANEL

PANELBOARD C SCHEDULE									
MAINS: 200 MLD					LOCATION: SEE PLAN				
VOLTAGE: 120/208-3 ϕ -4W					MOUNTING: SURFACE				
TYPE: C-M "PRLs" OR EQUAL					MIN. ALC: 22,000 AIC				
CIRCUIT DESCRIPTION					CIRCUIT DESCRIPTION				
LIGHTS	BKR.	CIR. NO.	ϕ A	ϕ B	ϕ C	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	
	20	1	1870			2	15		
RECEPT'S.		3		1260		15	1	- EWC	
		5		500		4	1		
WATER HEATER WH-2						20	1	- TMB	
						6	1		
A/C UNIT AC-3 (4-TDN)	40	7	3170			40		A/C UNIT AC-4 (4-TDN)	
		9	4200			8			
26.4 RLA, 208V, 3 ϕ				3170				35 MCA, 208V, 3 ϕ	
				4200					
BUILDING SIGN	20	13	1500			20	3	EXISTING EQUIPMENT	
	1					14	1		
EXISTING EQUIPMENT		15				16			
		17				18			
		19				20			
		21				22			
SPARE	20	23				20		NEW RESTROOM RECEPTACLE	
		25				24			
	20	27				26	2		
		29				28			
	20	31				30	2		
		33				32	20		
NEW WATER HEATER	30	35				34	2		
		37				36	20		
4.5 KW 208V, 1 ϕ						38	2		
						40		SPACE	
SPACE		39				42			
		41						SPACE	
TOTAL LOAD PER PHASE:			11340	9130	9950	HI ϕ 11340	/ 120 = 94.5	AMPS	

NOTE:
NO NEW PANEL LOAD ADDED UNDER THIS PERMIT LOAD REMOVED IS GREATER.

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PANELBOARD SYMBOLS

- \bigcirc EXISTING BREAKER W/ EXISTING LOAD
- \triangle EXISTING BREAKER W/ NEW LOAD
- \bigcirc NEW BREAKER W/ NEW LOAD

REVISIONS	BY
1 CITY COMMENT	
8-9-2022	

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ARCHITECTURE & PLANNING

DRAWING: Electrical Power Floor Plan

PROJECT: Arizona Hot Tub Company
6947 E. 1st St.
Prescott Valley, AZ 86314

103-08-045A

APN:

DRAWN BY
CHECKED BY
DATE April 8th, 2022
JOB NO. 782
SHEET

E1.2