

## GENERAL NOTES

All Work on this project shall be in accordance with applicable Codes and Ordinances having jurisdiction, including the 2018 International Building Codes and the 2018 National Electric Code and OSHA Safety Codes. The work shall be in compliance with the 2018 International Fire Code with all adopted amendments. Contractor shall take all necessary precautions to protect the safety of workers and public, and the stability of the structure, during the Work on this Contract.

Contractor shall visit the site prior to bid and field verify all existing conditions, dimensions, materials etc. Any discrepancies found in the drawings shall be brought to the attention of the Architect, and resolved between the Architect and Contractor prior to commencement of affected work.

Typical construction details as shown shall be incorporated into the project at all appropriate locations. Where no specific detail is provided, construction shall conform to similar work for the Project. Contact Architect if necessary for clarification before proceeding with the Work.

The Contractor shall provide for the security of equipment and materials stored on site.

Temporary electrical power on site is to be provided by the Contractor when applicable.

The Owner shall obtain and pay for all required permits from the appropriate jurisdiction.

The Contractor shall pay all applicable sales taxes, the amount of which shall be included in the Base Bid.

The Drawings and Specifications represent the finished structure; they do not indicate the method of construction. The Contractor shall provide all measures necessary to protect the structure during construction. Such measures shall include, but shall not be limited to: bracing and shoring of structure for loads due to construction procedures, excavation, equipment, backfill, wind, etc. Design and erection of shoring and bracing is the responsibility of the Contractor. Observation visits shall not include inspection of the above items.

Only skilled, experienced workers will be employed on this Project. All workmanship will be to the highest standards of all Trades.

Products of equal quality and performance to those specified in the Contract Documents may only be substituted upon written approval by the Architect.

The following procedures will be used for Change Orders:

The Architect may submit a Proposal Request including a description of the change considered, to which the Contractor will respond with a written Proposal stating change in Contract Sum and/or Time, with a breakdown of costs for Material, Labor, Overhead and Profit. Upon written Approval of said Proposal by the Architect and Owner, Work may proceed, and the Change Order will be included in the subsequent monthly Pay Request.

The Contractor may initiate a change by submitting a request to the Architect describing the proposed change with a statement of the reason for the change, and the effect on the Contract Sum and Time with documentation. Upon written approval, the Contractor may proceed with the Work, and any changes in the Contract Sum or Time reflected in a subsequent Change Order incorporated in the Monthly Pay Request.

The Architect may issue clarifications or minor revisions of the Work, which involve no change in the Contract Sum or Time, which the Contractor will promptly execute to expedite the Work.

Submit samples and/or product literature of materials to be used in the Work when specified.

The Contractor shall guarantee in writing, all labor, materials, equipment and workmanship provided and/or installed by them for a period of not less than two years (2 yrs.) from the date of final acceptance of the Work by the Owner.

Contractor shall be responsible for cleanup of waste produced by their work at the end of each day.

General Contractor shall provide one set of as-built drawings upon completion of the work.

Do not close, block or otherwise obstruct streets, walks or other occupied facilities without written permission from authorities having jurisdiction. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations.

LAYING OUT OF THE WORK: Prior to commencing work, the Contractor shall carefully compare and check all drawings, each with the other, that in any way affect the locations or elevation of the work to be executed by them, and should any discrepancy be found, they shall immediately report the same to the Architect for verifications and adjustments. Any duplication of work made necessary by failure or neglect on the Contractor's part to comply with this provision shall be done at his sole expense.

The drawings accompanying these specifications indicate generally the design and arrangement of all apparatus, fixtures, accessories, etc., necessary to complete the work required. The exact location or arrangement of equipment is subject to minor changes necessitated by field conditions and shall be made as required without additional cost to the Owner and brought to the attention of the Architect. If there is a discrepancy between documents, the most stringent requirements shall be assumed to apply to the work.

The existing utilities and other conditions shown or referred to on the drawings or in the specifications were located from existing reference drawings and field verification. While it may be reasonable to assume that the locations are reasonably accurate, the Contractor shall utilize Blue Staking Services information as available for all areas where existing utilities are known or thought to exist. Contractor should use extreme caution in trenching, cutting asphalt or concrete, etc., in the event that existing utilities are other than as may indicated on the drawings.

If the Contractor should encounter utilities or site conditions not shown on available reference materials, immediately notify the Architect who will direct Contractor in removal, repair, and/or rerouting of utilities and resolution of unexpected conditions.

Utility Shutdowns: Contractor shall coordinate closely with Owner for all utility shutdowns and changeovers.

Demolition. Contractor shall remove debris and construction material from demolition of structures per Documents. Materials shall either be hauled off site or salvaged for Owner – see Documents for clarification. All disturbed soil from Demolition shall be recompact with engineered fill per Code.

Provide final cleaning of the work, at time indicated, consisting of cleaning each surface or unit of work to like-new condition. Comply with manufacturer's instructions for cleaning operations. The following are examples, but not by way of limitation, of cleaning required:

Remove labels which are not required as permanent labels.

Clean transparent materials, including mirrors and all exterior and interior glazing, including windows and door glass, to a polished condition, removing substances which are vision-obscuring. Replace broken glass and damaged transparent materials.

Clean exposed exterior and interior hard-surfaced finishes, free of dust, stains, films and similar noticeable substances. Except as otherwise indicated, avoid disturbance of natural weathering of exterior surfaces.

Wipe surfaces of mechanical and electrical equipment clean; remove excess lubrication and other substances.

Remove debris and surface dust from limited-access spaces.

Clean interior concrete floors using broom and damp mop. Sweep exterior concrete surfaces and remove all dirt, grease, stains, and other deleterious materials caused by construction processes.

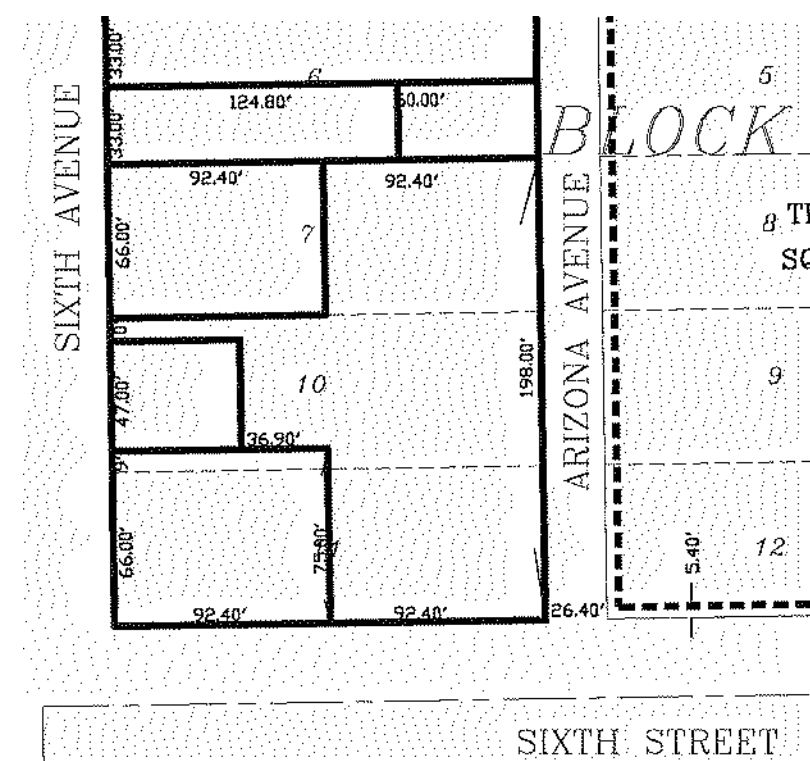
Clean light fixtures and lamps to function with full efficiency. Replace burned out lamps.

Clean project site of litter and foreign substances. Sweep paved areas to a broom-clean condition; remove stains, oil spills and other foreign deposits. Rake any disturbed adjacent grounds, which are neither planted nor paved, to a smooth, even-textured surface.

Removal of Protection: Remove temporary protection devices and facilities which were installed during course of the work to protect previously completed work during remainder of construction period.

Clean existing building spaces used during construction.

Compliances: Comply with safety standards and governing regulations for cleaning operations. Do not burn waste materials at site, or bury debris or excess materials on Owner's property, or discharge volatile or other harmful or dangerous materials into drainage systems; remove waste materials from site and dispose of in a lawful manner.



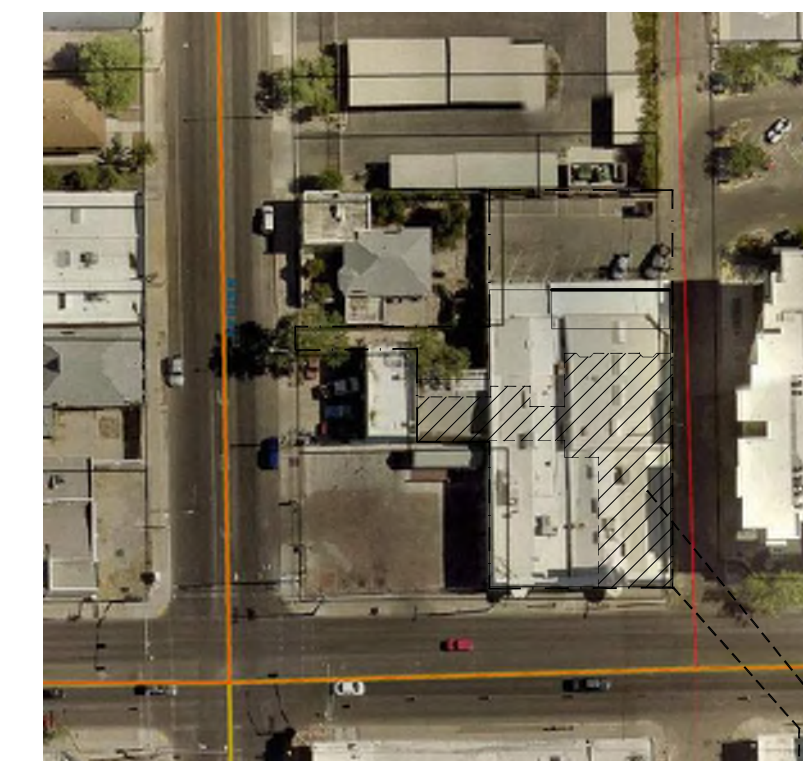
PARCEL PLAT NTS



THIS PROJECT - 221 E 6TH ST. PROJECT LOCATION NTS

## SITE INFORMATION

project	TENANT IMPROVEMENT
address	221 E 6TH STREET
property owner	DAVID NICHOLS REALTY INC
business owner	DOWNTOWN DISPENSARY
parcel	117-04-2710
zoning	C-3
impact fee area	CENTRAL IMPACT FEE BENEFIT AREA
historic	CONTRIBUTING PROPERTY - WAREHOUSE HISTORIC DISTRICT - NO CHANGE TO EXTERIOR OF BUILDING PROPOSED
lot area	0.45 ACRES (20,953 SF PER ASSESSOR) NO CHANGE
existing building square footage	13,398 SF
existing use	COMM. USE - OFC. / RETAIL COMM USE - PERSONAL SVCS.
proposed use	COMM. USE - OFC. / RETAIL
construction type	VB - SPRINKLERED PER 2018 IBC 903.3.1.1
occupancy	M - MERCANTILE
building height	EXISTING MARQUEE 50'-4" NO CHANGE EXISTING PARAPET (CONTIN.) 20'-0" NO CHANGE EXISTING 1 STORY - NO CHANGE
allowable area setbacks	36,000SF - NO CHANGE - SEE AREA SUMMARY 0' LOT LINE - NO CHANGE TO EXISTING

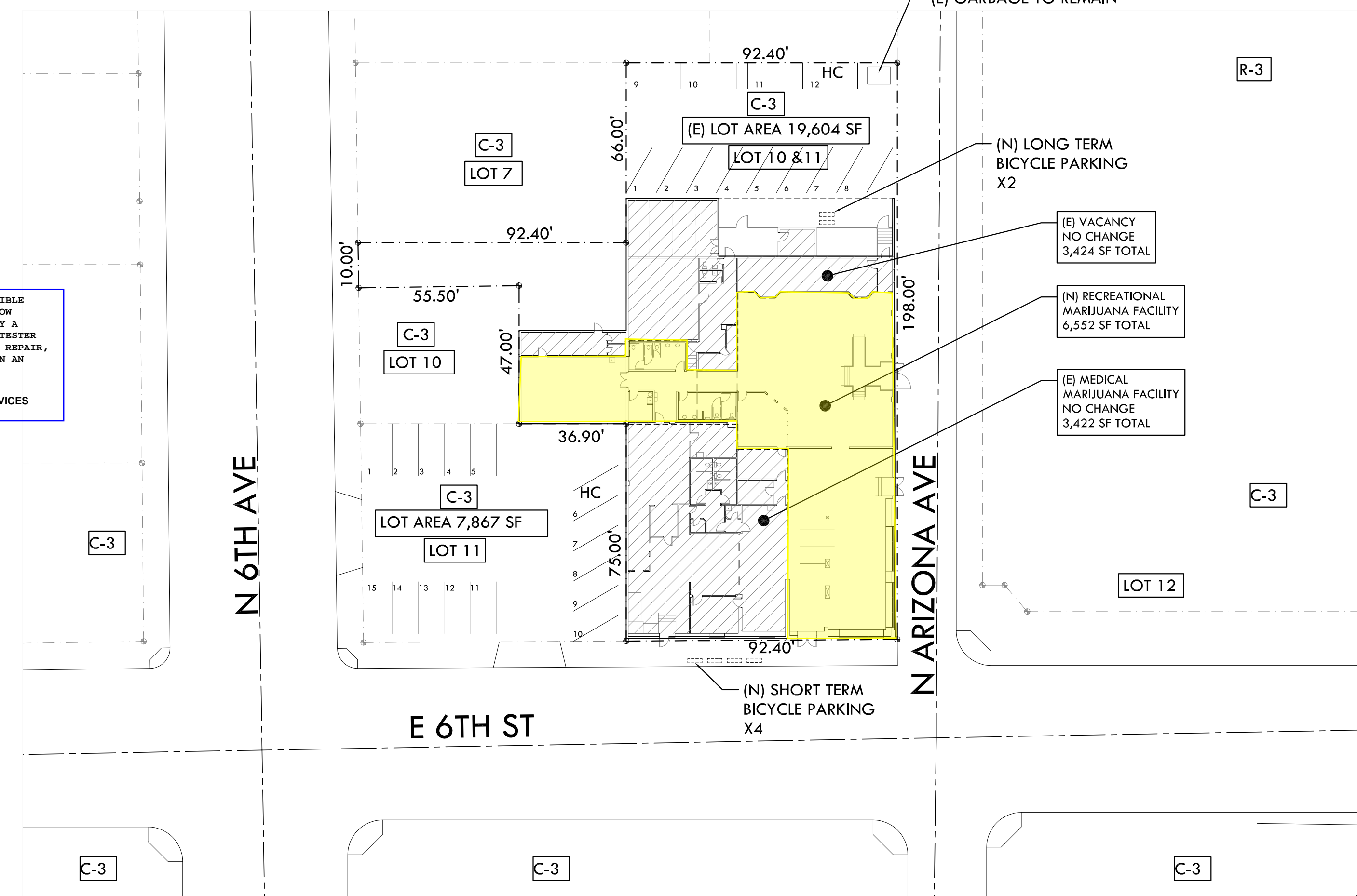
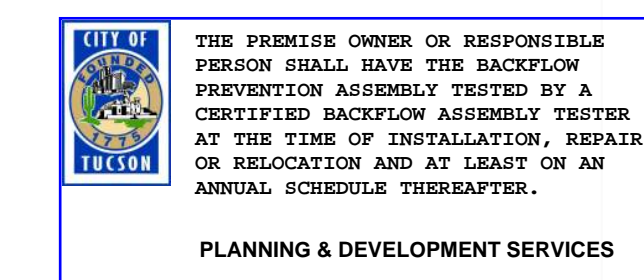


THIS PROJECT - 221 E 6TH ST  
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AERIAL NTS



Separate permits required for installation/modification of:  
\*fire sprinklers  
\*fire alarm  
\*operational permit for plant extraction systems (if applicable)  
\*CO2 gas detection alarms for CO2 enrichment systems (if applicable)



EXISTING AREA-NO CHANGE

SITE PLAN 1/32" = 1'-0"

## DRAWING INDEX

- G1 SITE PLAN / ZONING INFORMATION
- G2 EXISTING PLAN AND CODE INFORMATION
- A0 DEMOLITION PLAN
- A1.1 FLOOR PLAN
- A1.2 CEILING FRAMING PLAN
- A2.1 ADA DETAILS
- S1 STANDARD STRUCTURAL NOTES
- S2 ROOF PLAN / FRAMING DETAILS
- P1 FLOOR PLAN - PLUMBING - WASTE & VENT PIPING
- P2 FLOOR PLAN - PLUMBING - WATER PIPING
- P3 PLUMBING SPECIFICATIONS
- M1 FLOOR PLAN - HVAC
- M2 ROOF PLAN - HVAC
- M3 MECHANICAL DETAILS
- M4 MECHANICAL SCHEDULES
- E0.0 ELECTRICAL NOTES, SYMBOLS, ABBREVIATIONS
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- E1.0 LIGHTING PLAN
- E2.0 POWER PLAN
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- E3.0 SYSTEMS PLAN
- E4.0 ONE LINE DIAGRAM, PANEL SCHEDULES & CALCS

## Building Code Compliant

REVIEW BY: SAFEbuilt.

08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing

T21CM05662

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VALERIE A. LANE, REGISTERED ARCHITECT

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STRUCTURAL	Turner Structural jturn@turnerstructural.com 520-323-3422
TENANT	Downtown Dispensary 221 E 6th St Tucson, AZ 85705

**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
 SITE PLAN AND INFORMATION

**G1**



PROF. OWNER: David Mikolaj Reedy, Inc.  
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COT APPROVAL:

# ROOM KEY ###

## EXISTING / PROPOSED USE

- 101 (E) LOBBY
- 102 (E) OFFICE
- 103 FULFILLMENT AND SALES
- 104 AUDIO / VIDEO
- 105 OFFICE
- 106 (E) OFFICE
- 107 (E) PACKAGING
- 108 (E) MEN'S RESTROOM
- 109 (E) WOMEN'S RESTROOM
- 110 (E) SECURITY
- 111 (E) DISTRIBUTION
- 112 SALES FLOOR - CHANGE OF USE - NO WORK
- 112A DESIGNATED WAITING AREA W/ SEATING
- 112B DESIGNATED WAITING AREA - STANDING
- 112C DESIGNATED WAITING AREA W/ SEATING
- 113 SALES FLOOR - NEW
- 113A DESIGNATED WAITING AREA W/ SEATING
- 113B DESIGNATED WAITING AREA - STANDING
- 114 FULFILLMENT - NEW
- 115 BREAK ROOM - NEW
- 116 UTILITY CLOSET/MOP SINK - NEW
- 117 MEN'S RESTROOM - NEW
- 118 WOMEN'S RESTROOM - NEW
- 119 HALL
- 120 UTILITY - NO WORK
- 121 VACANT - NO WORK
- 122 VACANT - NO WORK
- 123 (E) RESTROOMS - NO WORK
- 124 STORAGE - NEW
- 125 VACANT - NO WORK
- 126 VACANT - NO WORK
- 127 VACANT - NO WORK

## PREVIOUS USE

- 101 MEDICAL DISPENSARY NO CHANGE
- 102 MEDICAL DISPENSARY NO CHANGE
- 103 MEDICAL DISPENSARY NO CHANGE
- 104 MEDICAL DISPENSARY NO CHANGE
- 105 MEDICAL DISPENSARY NO CHANGE
- 106 MEDICAL DISPENSARY NO CHANGE
- 107 MEDICAL DISPENSARY NO CHANGE
- 108 MEDICAL DISPENSARY NO CHANGE
- 109 MEDICAL DISPENSARY NO CHANGE
- 110 MEDICAL DISPENSARY NO CHANGE
- 111 MEDICAL DISPENSARY NO CHANGE
- 112 OPEN OFFICE
- 113 GYM
- 114 GYM
- 115 GYM
- 116 GYM
- 117 GYM
- 118 GYM
- 119 GYM
- 120 NO CHANGE
- 121 NO CHANGE
- 122 NO CHANGE
- 123 NO CHANGE
- 124 GYM
- 125 NO CHANGE
- 126 NO CHANGE
- 127 NO CHANGE

**Building Code Compliant**

REVIEW BY: **SAFEbuilt.**

08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing

## AREA SUMMARY

101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111 EXISTING MEDICAL DISPENSARY OPERATION NO CHANGE PROPOSED	<b>3,422 SF</b>
112, 113, 114, 115, 116, 117, 118, 119 PROPOSED RECREATIONAL DISPENSARY OPERATION TOTAL PROPOSED AREA PER SIGNED ORDINANCE ARTICLE 4 SECTION 9 - USE-SPECIFIC STANDARDS 4.9.9.E.1.a - THE TOTAL MAX FLOOR AREA OF A MARIJUANA DISPENSARY SHALL NOT EXCEED 10,000 SF	<b>6,552 SF</b>
114, 115, 116, 117, 118, 119 PROPOSED RESTROOMS, BREAK ROOM, BUILDING UTILITY CLOSET, ETC.	1,879 SF
112, 113 PROPOSED SALES FLOOR - TOTAL	4,673 SF
112A, 112B, 112C, 112D, 113A, 113B PROPOSED WAITING AREAS - TOTAL	1,331 SF
SALES FLOOR MINUS WAITING AREAS:	<b>3,342 SF</b>
WAITING AREAS / SALES FLOOR PER SIGNED ORDINANCE ARTICLE 4 SECTION 9 - USE-SPECIFIC STANDARDS 4.9.9.E.1.d - ...DISPENSARY SHALL HAVE INTERIOR CUSTOMER WAITING AREA EQUAL TO A MIN. OF 25% OF THE SALES FLOOR AREA. SALES FLOOR IS DEFINED AS AREA OPEN TO CUSTOMERS FOR THE SALE OF PRODUCTS ... AND DOES NOT INCLUDE WAITING AREAS, AREAS FOR PRODUCTION AND STORING OF PRODUCTS, OR OFFICES	<b>34%</b>

## 2018 IBC CODE INFO.

construction type VB - SPRINKLERED  
B: 36,000 SF ALLOWED  
M: 36,000 SF ALLOWED  
NON-SEPARATED USES

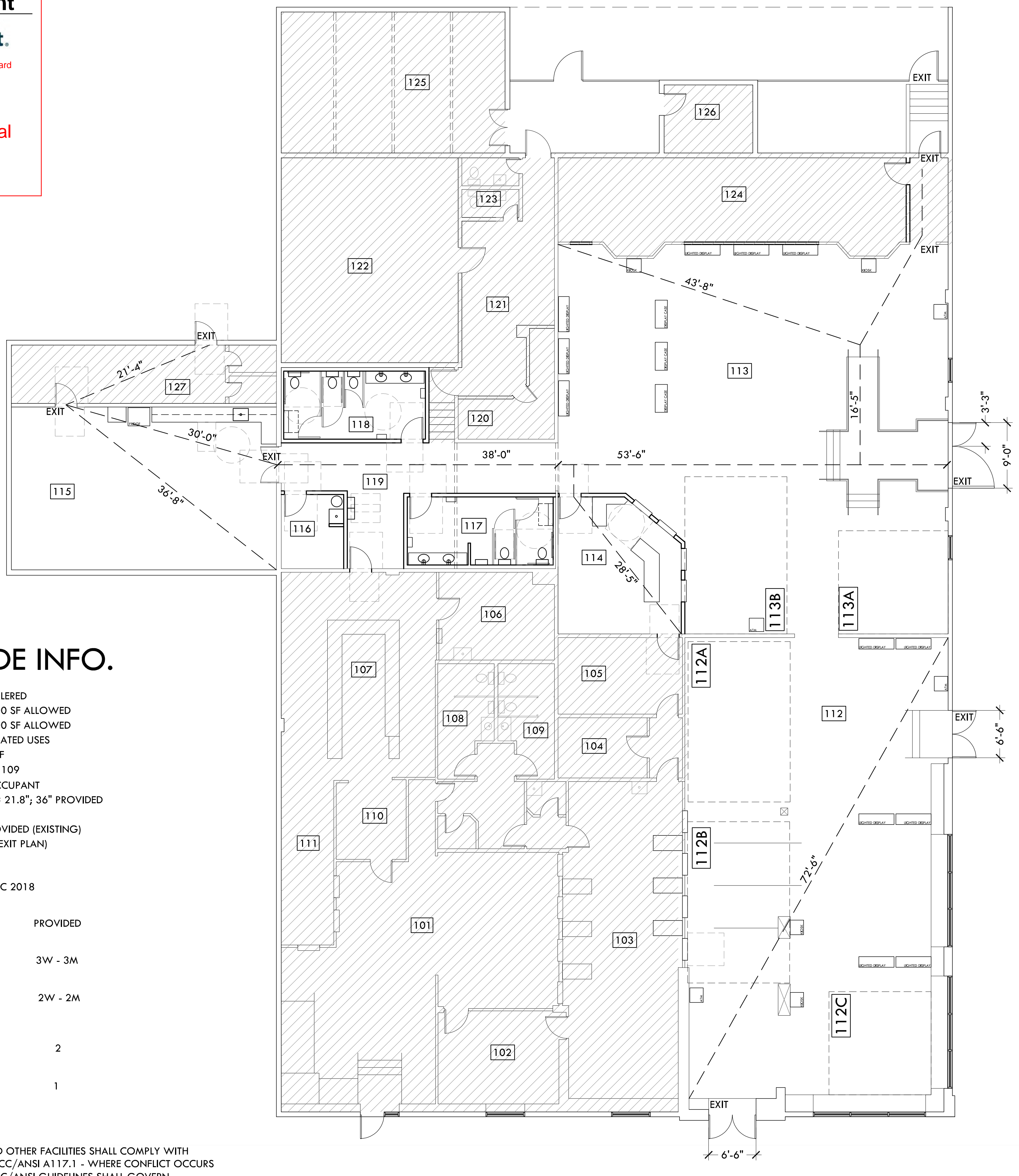
occupancy load M - 6,552 SF  
(per IBC table 1004.5) 6552/60 = 109  
exit width required 0.2" PER OCCUPANT  
(per IBC sect. 1005) 0.2 X 109 = 21.8"; 36" PROVIDED  
number of exits 2 EXITS  
(per IBC table 1006.2.1) 5 EXITS PROVIDED (EXISTING)  
exit travel distance M: 75' (SEE EXIT PLAN)

PLUMBING FIXTURES PER 2902.1.1 IBC 2018

	REQUIRED	PROVIDED
<b>WATER CLOSET</b>		
MERCANTILE	1/500	3W - 3M
<b>LAVATORIES</b>		
MERCANTILE	1/750	2W - 2M
STORAGE	1/100	
<b>DRINKING FOUNTAINS</b>		
MERCANTILE	1/1000	2
STORAGE	1/1000	
<b>SERVICE SINK</b>	1	1

ACCESSIBILITY:  
ACCESSIBILITY ROUTES, ENTRIES, AND OTHER FACILITIES SHALL COMPLY WITH CHAPTER 11 OF THE IBC AND 2009 ICC/ANSI A117.1 - WHERE CONFLICT OCCURS BETWEEN THE 2 DOCUMENTS, THE ICC/ANSI GUIDELINES SHALL GOVERN.

FIRE:  
BUILDING HAS AN NFPA AUTOMATIC SPRINKLER SYSTEM PER IBC SECTION 903.3.1.1  
SEE MECHANICAL



PROPOSED [Solid Line]  
EXISTING [Dashed Line]  
EXISTING AREA-NO CHANGE [Hatched Area]

1 1 EXITING FLOOR PLAN  
1/8" = 1'-0"

**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
 EXITING PLAN AND CODE INFORMATION



# ROOM KEY ###

## EXISTING USE

- 101 LOBBY
- 102 OFFICE
- 103 FULFILLMENT AND SALES
- 104 AUDIO / VIDEO
- 105 OFFICE
- 106 OFFICE
- 107 PACKAGING
- 108 MEN'S RESTROOM
- 109 WOMEN'S RESTROOM
- 110 SECURITY OFFICE
- 111 DISTRIBUTION
- 112 OPEN OFFICES
- 113 VACANT (PREVIOUS GYM)
- 115 VACANT (PREVIOUS GYM)
- 119 VACANT (PREVIOUS GYM)
- 120 VACANT - NO WORK
- 121 VACANT - NO WORK
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## Building Code Compliant

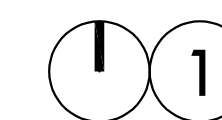
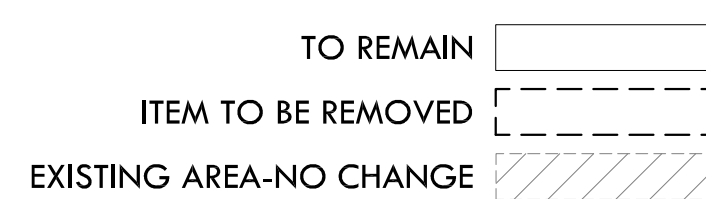
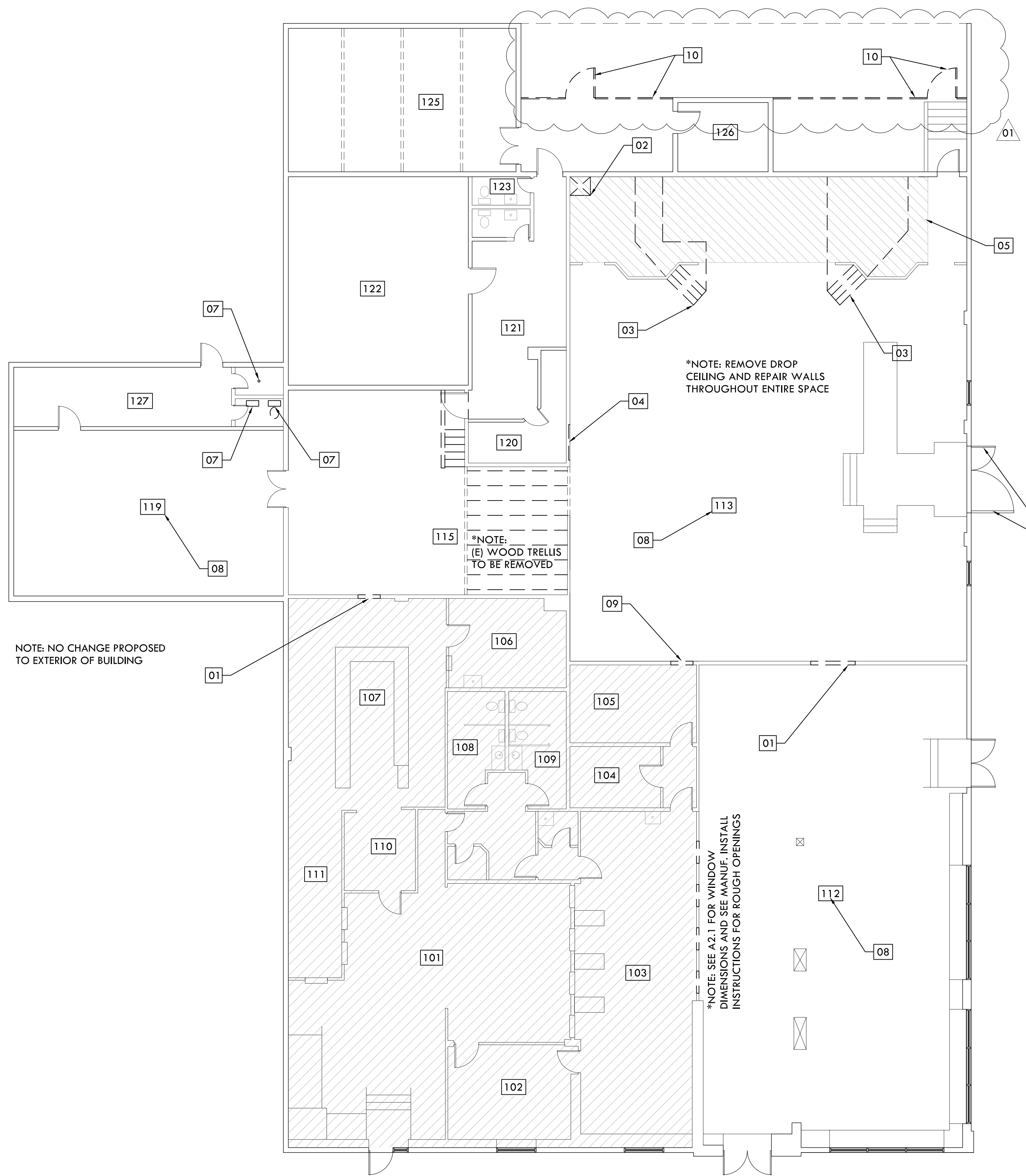
REVIEW BY:  
**SAFEbuilt.**

08/16/2021 Dawn Woodard

- ✓ Structural
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- ✓ Electrical
- ✓ Plumbing

## KEY NOTES

- 01 REMOVE (E) GYP BD TO REVEAL (E) OPENING
- 02 VERTICAL CHASE TO BE DEMOLISHED
- 03 ANY REMAINING PLATFORM/STAGE STRUCTURE TO BE REMOVED
- 04 REMOVE RETURN GRILL AND INFILL OPENING TO MATCH EXISTING WALL
- 05 LEAVE (E) CEILING FRAMING AND (E) HARD LID IN THIS AREA
- 06 REPLACE BROKEN GLASS PANES AND REPAIR DOOR OPERATION AS NEEDED
- 07 REMOVE FIXTURE AND CAP OFF SUPPLY AND WASTE
- 08 REMOVE ALL CEILING LAYERS AND ASSOCIATED FRAME TO EXPOSE EXISTING FRAME
- 09 DEMO (E) MASONRY WALL FOR NEW DOOR -SEE STRUCTURAL FOR HEADER DETAIL
- 10 EXTERIOR FENCE TO BE REMOVED STORED AND REPLACED REFERENCE SHEET A1.1



DEMOLITION PLAN  
1/8" = 1'-0"

T21CM05662

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COT APPROVAL  
01 08.09.2021

**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
**DEMOLITION PLAN**

**A0**



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COT APPROVAL 01 08.09.2021

**ROOM KEY** ###  
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**SCOPE OF WORK KEY**

- A** HVAC: NEW RETURN AND SUPPLY SYSTEMS - SEE PLUMBING AND MECHANICAL
- B** ELECTRICAL: NEW/ALTERED LIGHTING/ POWER SUPPLY SYSTEMS (ALL EXISTING FIXTURES TO BE FIELD VERIFIED FOR OPERATION/CODE COMPLIANCE) - SEE ELECTRICAL
- C** FINISHES: FLOORING, PAINT, TILE, CASEWORK, ETC. TO BE COORDINATED WITH OWNER/BUILDER

**DOOR SCHEDULE** ####

DOOR NO.	SCOPE	MTRL	HDWR	FINISH	WIDTH	HGT	FRAME MAT.	NOTES
107.1	NEW	WOOD	ENTRY	BY OWNER	3'-0"	6'-8"	WOOD	
112.1	NEW	WOOD	ENTRY	BY OWNER	6'-6"	6'-8"	WOOD	
114.1	NEW	WOOD	ENTRY	BY OWNER	3'-0"	6'-8"	WOOD	
116.1	NEW	WOOD	PASSAGE	BY OWNER	3'-0"	6'-8"	WOOD	
117.1	NEW	WOOD	PRIVACY	BY OWNER	3'-0"	6'-8"	WOOD	
118.1	NEW	WOOD	PRIVACY	BY OWNER	3'-0"	6'-8"	WOOD	
124.1	NEW	WOOD	PASSAGE	BY OWNER	3'-0"	6'-8"	WOOD	

\*DOORS, & ALL HARDWARE MANUFACTURERS TO BE CHOSEN BY OWNER  
 \*ALL (E) DOORS TO BE OUTFITTED WITH NEW HARDWARE. HARDWARE TBD BY OWNER.  
 \*ALL NEW AND EXISTING DOORS TO BE OUTFITTED WITH NEW 1X6 HEAD TRIM AND 1X4 JAMB TRIM  
 \*ALL WOOD COMPONENTS TO BE PAINTED AT EXTERIOR, COLOR PER OWNER  
 NOTE: ALL DOORS NOT MARKED ON PLAN ARE EXISTING AND ARE TO REMAIN

**PLAN KEYNOTES**

- 01 LIGHTED DISPLAY BY OWNER
- 02 DISPLAY BY OWNER
- 03 KIOSK SPECIFIED BY OWNER
- 04 ATM
- 05 ALL INTERIOR COUNTER AND WINDOWS 2'8"Wx4'8"H / 3'-0" SILL HT. A.F.F. TYP. - FURNISHED BY OWNER & INSTALLED BY GENERAL CONTRACTOR - F.V. ALL WIN. LOCATIONS WITH OWNER / ARCH.
- 06 (N) SOLID CORE FLUSH PANEL DOOR, TYP
- 07 (N) PLUMBING FIXTURES
- 08 (E) FENCE TO BE MOVED 6' AWAY FROM ORIGINAL LOCATION - INFILL WITH METAL TO MATCH EXISTING FENCE - COORDINATE WITH OWNER

**GENERAL FINISH NOTES**

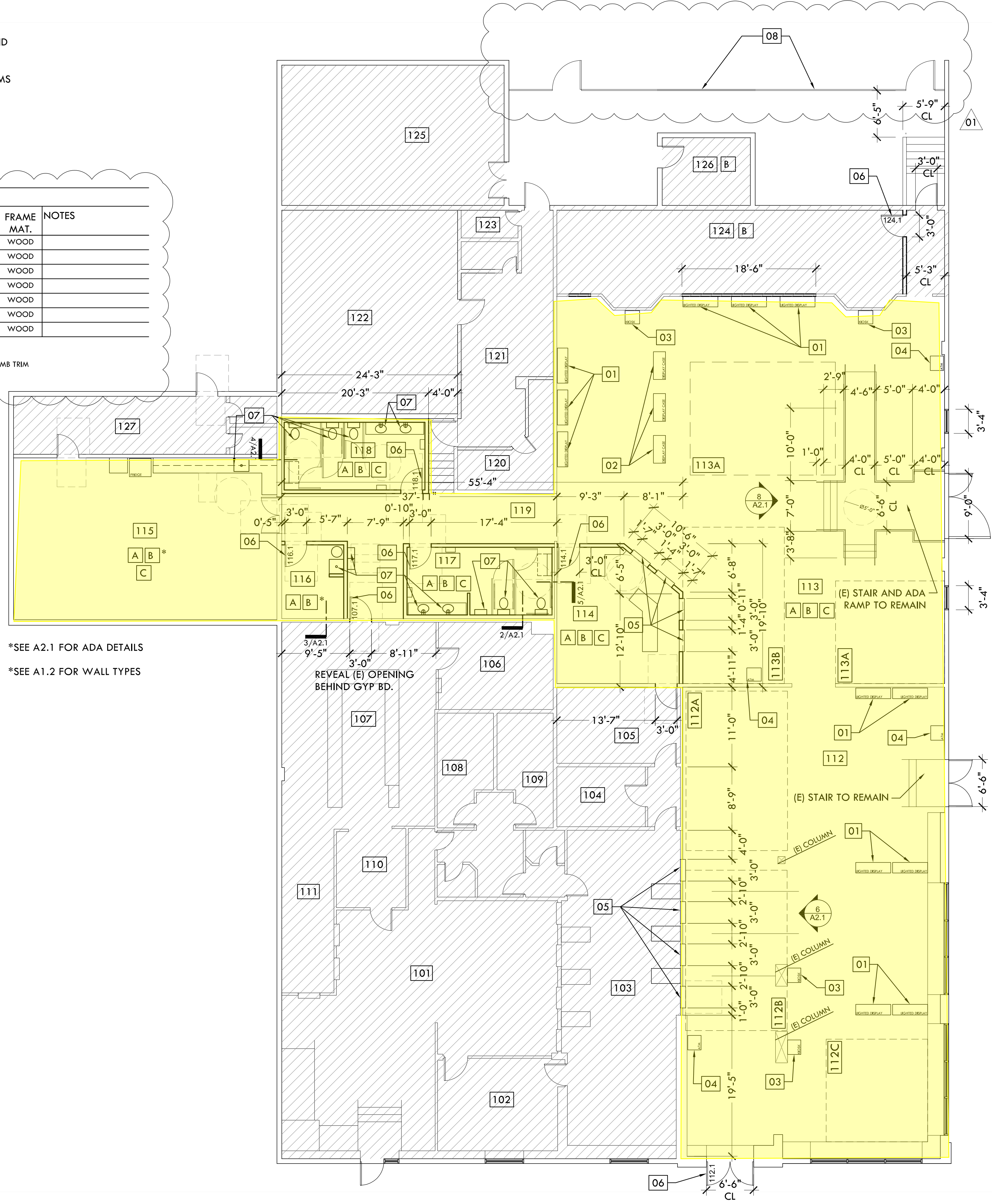
- 01 IN ROOMS 113, 114, 115, 116, 117, 118, 119: STAIN (E) CONCRETE FLOORS TO MATCH (E) FLOORS IN ROOM 112
- 02 ALL NEW AND EXISTING WALLS TO BE PAINTED WHITE
- 03 ALL FURNITURE, CASEWORK, CABINETS TO BE SELECTED BY OWNER AND INSTALLED BY CONTRACTOR

**Building Code Compliant**

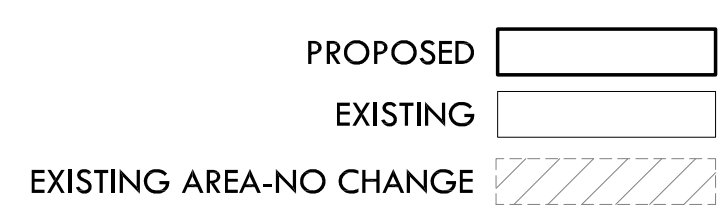
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**SAFEbuilt.**

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- ✓ Structural
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\*SEE A2.1 FOR ADA DETAILS  
 \*SEE A1.2 FOR WALL TYPES



**1 FLOOR PLAN**  
1/8" = 1'-0"

**DOWNTOWN DISPENSARY**  
 221 E 6TH ST  
 TUCSON, AZ 85705  
 FLOOR PLAN

**A1.1**

**Building Code Compliant**

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STRUCTURAL: Turner Structural  
jturner@turnerstructural.com  
520-323-3422

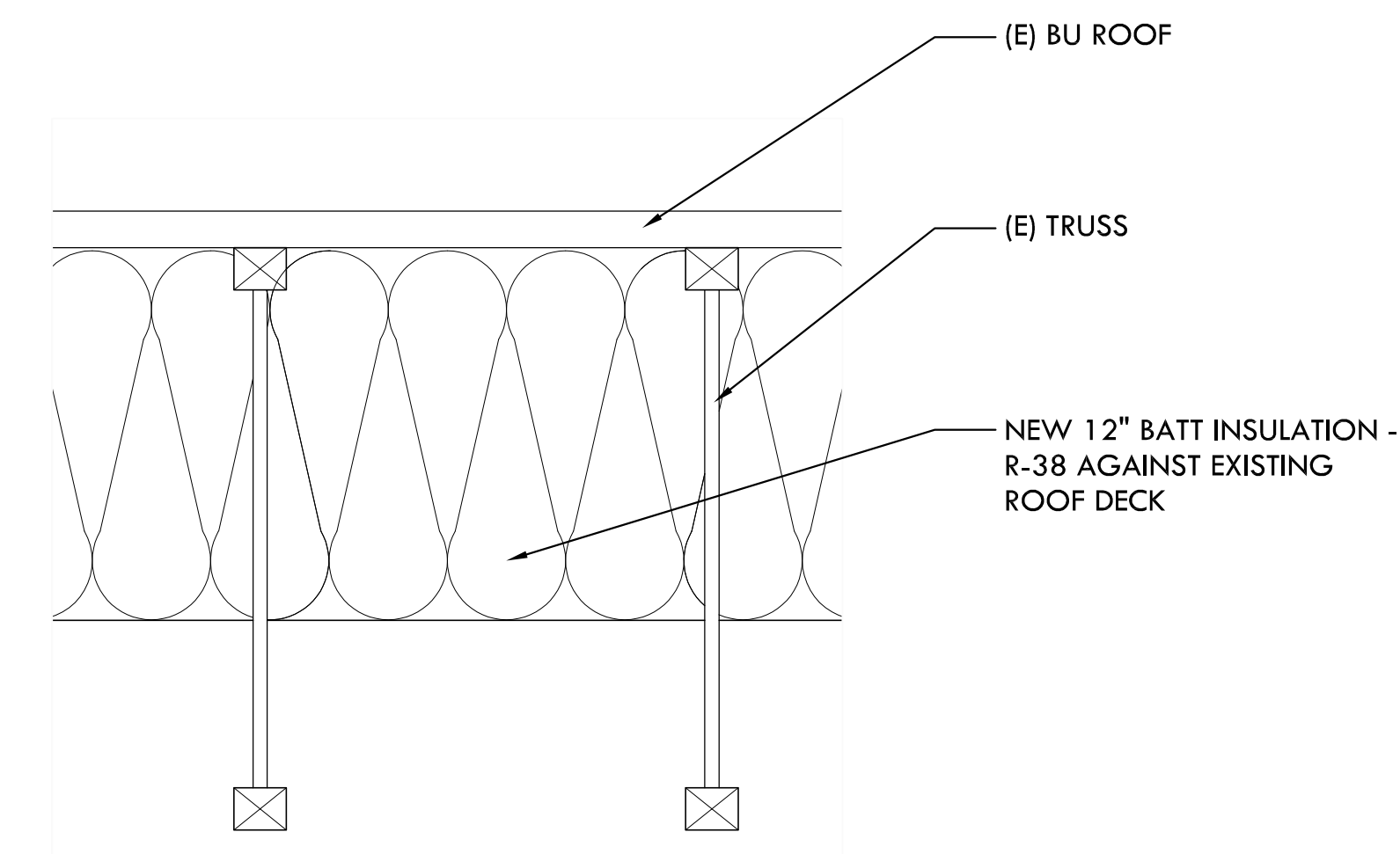
TENANT: Downtown Dispensary  
221 E 6th St  
Tucson, AZ 85705

COT APPROVAL:

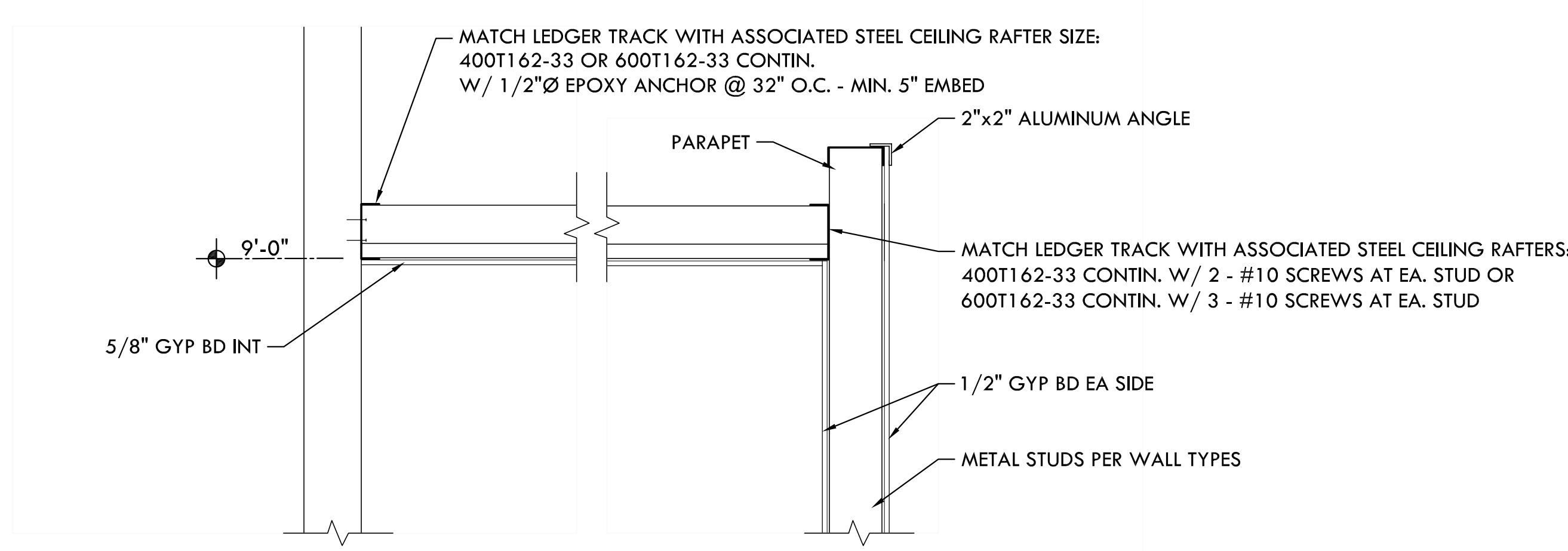
**WALL TYPES** WX

- 01 NEW INT. NON-BRG. WALL  
400S162-33 STEEL STUDS  
@ 16" O.C. T.O. WALL 10'-0"  
1/2" GYP BD EACH SIDE
- 02 NEW INT FURRING WALL  
400S162-33 STEEL STUDS  
@ 16" O.C. T.O. WALL @ 9'-0"  
1/2" GYP BD INT
- 03 INT. NON-BRG. IN-FILL WALL  
600S162-33 STEEL STUDS  
@ 16" O.C. T.O. WALL TO (E) CLG. - ~14' A.F.F  
PROVIDE BRIDGING @ 48" O.C.  
BRACE TO EXISTING CEILING FRAMING AT  
STORAGE UNIT SIDE OF WALL - F.V. CEILING FRAME CONDITIONS  
(E) GYP. EA. SIDE - FINISH TO MATCH

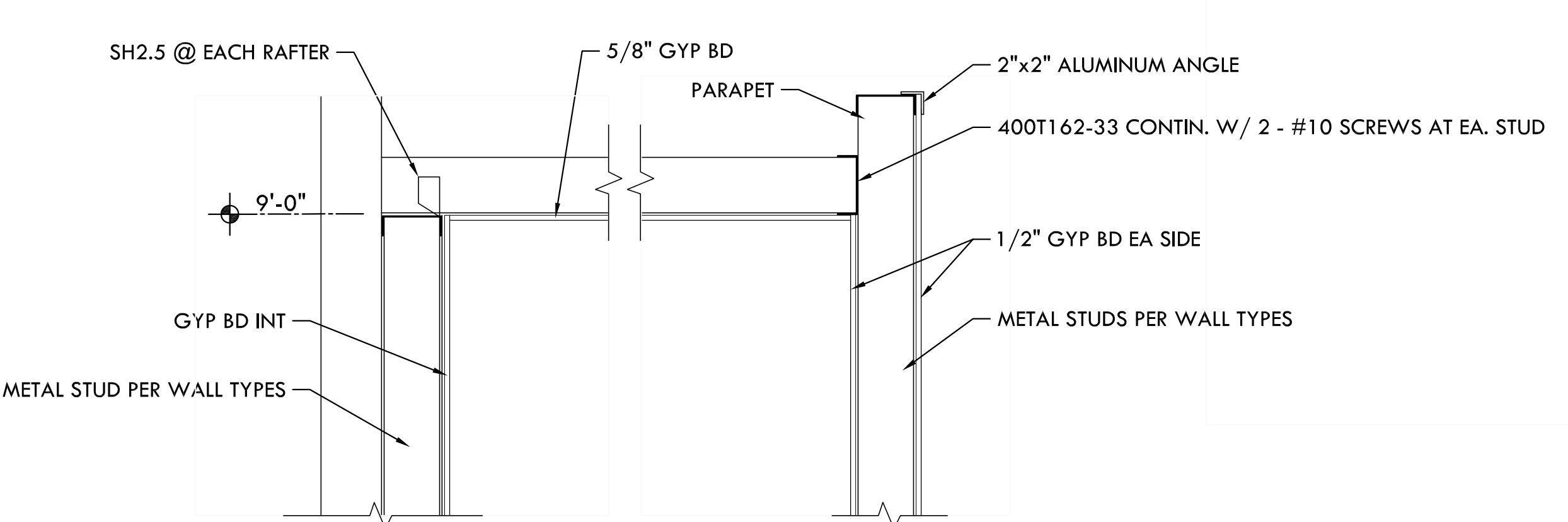
NOTE: INT. @ WET AREAS TO BE MOLD RESISTANT  
GYP BOARD OR CEMENT BOARD BACKING BEHIND TILE  
TILE / FINISH TEXTURE / PAINT PER OWNER SELECTION



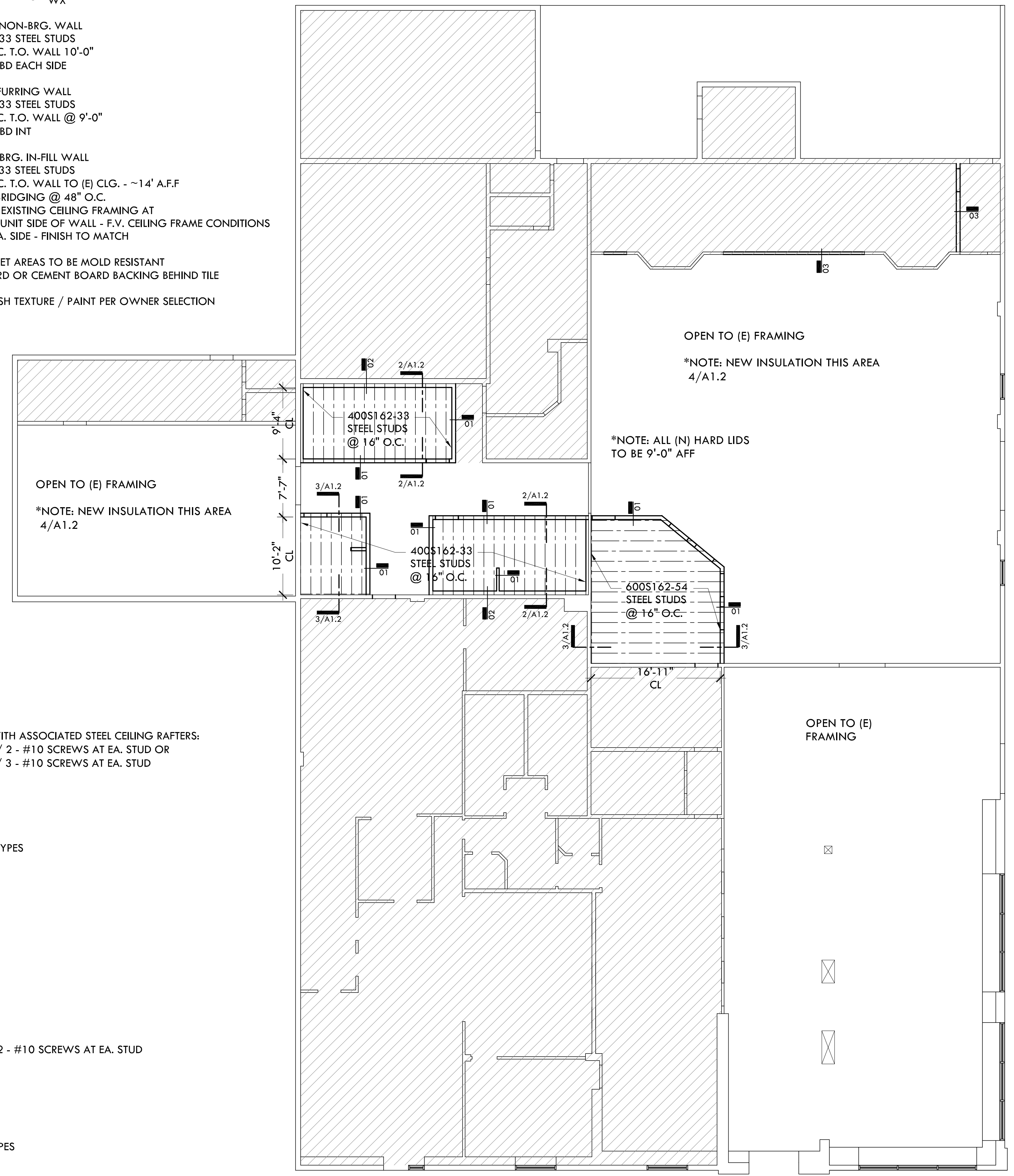
**4 EXISTING ROOF SECTION**  
NTS



**3 SECTION**  
1" = 1'-0"



**2 SECTION**  
1" = 1'-0"



PROPOSED

EXISTING

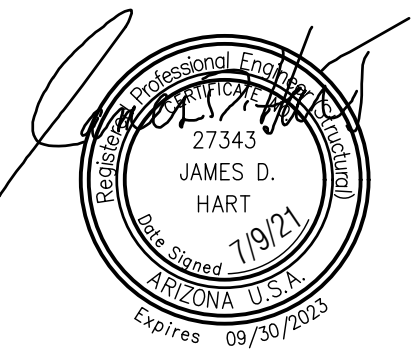
EXISTING AREA-NO CHANGE

**1 CEILING FRAMING PLAN**  
1/8" = 1'-0"

**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
**CEILING FRAMING PLAN**

**A1.2**





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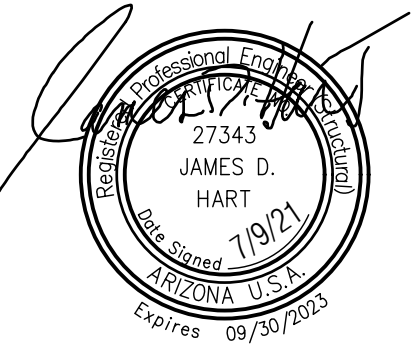
ABBREVIATIONS	
A.B.	ANCHOR BOLT
A.C.I.	AMERICAN CONCRETE INSTITUTE
A.E.	ARCHITECT ENGINEER
A.I.A.	AMERICAN INSTITUTE OF ARCHITECTS
ALT.	ALTERNATE
APPROX.	APPROXIMATE
ARCH.	ARCHITECT (URAL)
@	AT
BOT.	BOTTOM
B.B.	BOND BEAM
BD.	BOARD
BTWN.	BETWEEN
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.O.F.	BOTTOM OF FOOTING
BRG.	BEARING
BSMT.	BASEMENT
CHAN.	CHANNEL
CAM.	CAMBER
CEM.	CEMENT
C.I.P.	CAST IN PLACE
C.J.	CONTROL/CONSTRUCTION JOINT
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECT (ION)
CONST.	CONSTRUCT (ION)
CONT.	CONTINUOUS
☉	CENTER LINE
DBL.	DOUBLE
DEMO.	DEMOLITION
DET.	DETAIL
DIA., Ø	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DO.	DITTO
DWG.	DRAWING
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ENG.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EW.	EACH WAY
EXTG.	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
F.F.	FINISH FLOOR
FIN.	FINISH
FRMG.	FRAMING
FT.	FOOT
FTG.	FOOTING
GA.	GALVE
GALV.	GALVANIZED
G.L.	GLU-LAM
GYP.	GYPSPUM
HORIZ.	HORIZONTAL
H.S.A.	HEADED STUD ANCHOR
HT.	HEIGHT
H.V.A.C.	HEATING/VENTILATING
IN.	INCH
INT.	INTERIOR
JST.	JOIST
JT.	JOINT
K	KIP (1000)
KO.	KNOCK OUT
L.L.	LIVE LOAD
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
MECH.	MECHANICAL
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OPNG.	OPENING
PL.	PLATE
PT.	POINT
PWD.	PLYWOOD
REINF.	REINFORCE (D)
REDD.	REQUIRED
SCHED.	SCHEDULE
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SP.	SPACE
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STEEL
SYM.	SYMMETRICAL
T. & B.	TOP AND BOTTOM
THK.	THICKNESS
T.O.B.	TOP OF BEAM
T.O.F.	TOP OF FOOTING
T.O.J.	TOP OF JOIST
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT
W.W.M.	WELDED WIRE MESH

SYMBOLS and LEGENDS	
	C.M.U.
	GRANULAR BASE COURSE
	PLYWOOD SHEATHING
	STEEL
	SECTION CUT
	KEYNOTE
	SHEAR WALL
	DETAIL TITLE
	ELEVATION TARGET
	REVISION
	STEP IN FOOTING
	CENTER LINE
	COLUMN MARK
	FOOTING MARK
	SLAB DEPRESSION
	OPENINGS
	COLUMN GRID
	DECK SPAN
	CONTROL/ CONSTRUCTION JOINT
	PRE-ENGINEERED WOOD "1" JOIST
	"LH" SERIES JOIST MARK
	STEEL BEAM SIZE
	"K" SERIES JOIST MARK
	CONCRETE GRADE BEAM NUMBER

STANDARD STRUCTURAL NOTES	
I. GENERAL:	<ol style="list-style-type: none"> <li>ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION WITH LOCAL MODIFICATIONS.</li> <li>DESIGN LOADS:                             <ol style="list-style-type: none"> <li>ROOF LIVE LOAD: . . . . . 20 PSF</li> <li>ROOF DEAD LOAD: . . . . . 20 PSF</li> </ol> </li> <li>THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.</li> <li>DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.</li> <li>ALL DETAILS SHOWN APPLY WHETHER SPECIFICALLY REFERENCED OR NOT.</li> <li>ALL STRUCTURAL CALCULATIONS SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW, SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER (STRUCTURAL) REGISTERED IN THE STATE OF ARIZONA.</li> </ol>
II. METALS:	<ol style="list-style-type: none"> <li>ALL STRUCTURAL STEEL CONSTRUCTION SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AND AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" INCLUDING COMMENTARY, AND THE APPLICABLE PROVISIONS OF THE AWS, "STRUCTURAL WELDING CODE".</li> <li>ALL SHAPES AND PLATES SHALL BE ASTM A36.</li> <li>ALL UNFINISHED BOLTS AND NUTS SHALL BE ASTM A325, GRADE A HIGH STRENGTH BOLTS.</li> <li>E70XX ELECTRODES SHALL BE USED FOR ALL WELDS.</li> </ol>
III. CARPENTRY:	<ol style="list-style-type: none"> <li>ALL LUMBER SHALL BE DOUGLAS FIR-LARCH OF THE FOLLOWING GRADE: JOISTS, BLOCKING, . . . . . Fb = 1,000 PSI, . . . . . E = 1,700,000 PSI</li> <li>ALL NAILING SHALL CONFORM TO THE 2018 IBC TABLE NO. 2304.10.1 AND AS NOTED ON DRAWINGS.</li> <li>ALL LUMBER SHALL BEAR THE STAMP OF AN APPROVED GRADING AGENCY.</li> </ol>
<b>GENERAL NOTES</b>	
<ol style="list-style-type: none"> <li>CONTRACTOR SHALL BE RESPONSIBLE FOR THE CUTTING OF ALL OPENINGS THROUGH BUILDING FLOORS, ROOFS, AND FOR THE INSTALLATION OF ALL STRUCTURAL SUPPORT MEMBERS.</li> <li>THIS PROJECT INVOLVES ADDITIONS AND ALTERATIONS TO EXISTING CONSTRUCTION. EVERY EFFORT HAS BEEN MADE TO DETAIL THE DRAWINGS TO CONFORM WITH EXISTING CONSTRUCTION IN ACCORDANCE WITH THE AS-BUILT DRAWINGS. IF CONDITIONS ARE UNCOVERED WHICH DIFFER FROM WHAT IS SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER FOR RECOMMENDATIONS PRIOR TO PROCEEDING WITH THE WORK.</li> <li>THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, PLACEMENT, AND MAINTENANCE OF ALL SHORING AND BRACING OF EXISTING CONSTRUCTION THAT MAY BE REQUIRED TO INSURE THAT NO SETTLEMENT OR MOVEMENT OF ANY EXISTING CONSTRUCTION OCCURS.</li> <li>ALL DIMENSIONS OF EXISTING CONSTRUCTION HAVE BEEN TAKEN FROM AS-BUILT DRAWINGS AND SITE SURVEY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK.</li> </ol>	
FOR COMPLETE DIMENSIONS SEE ARCHITECTURAL DRAWINGS	
<div style="border: 1px solid red; padding: 5px;"> <p><b>Building Code Compliant</b></p> <p>REVIEW BY: </p> <p>08/16/2021 Dawn Woodard</p> <ul style="list-style-type: none"> <li>✓ Structural</li> <li>✓ Building</li> <li>✓ Mechanical</li> <li>✓ Electrical</li> <li>✓ Plumbing</li> </ul> </div>	

**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
**STANDARD STRUCTURAL NOTES**

**S1**



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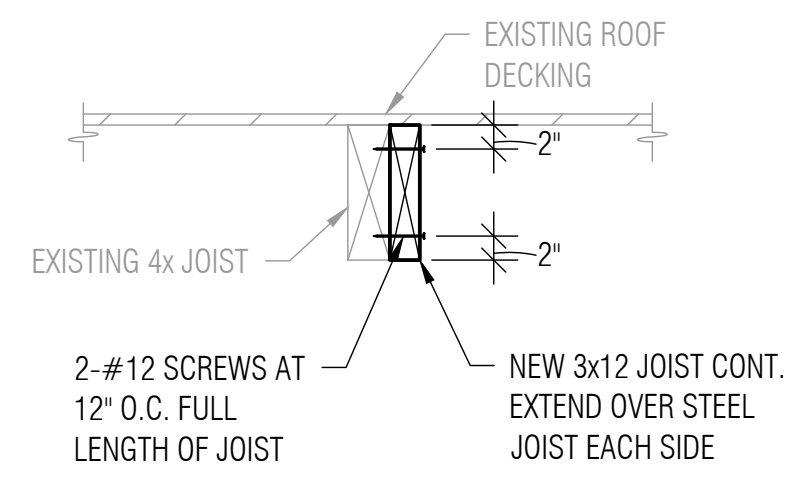
MECHANICAL PEF Mechanical Engineering  
pef@pefmechanical.com  
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leda@eda-az.com  
520.422.2196

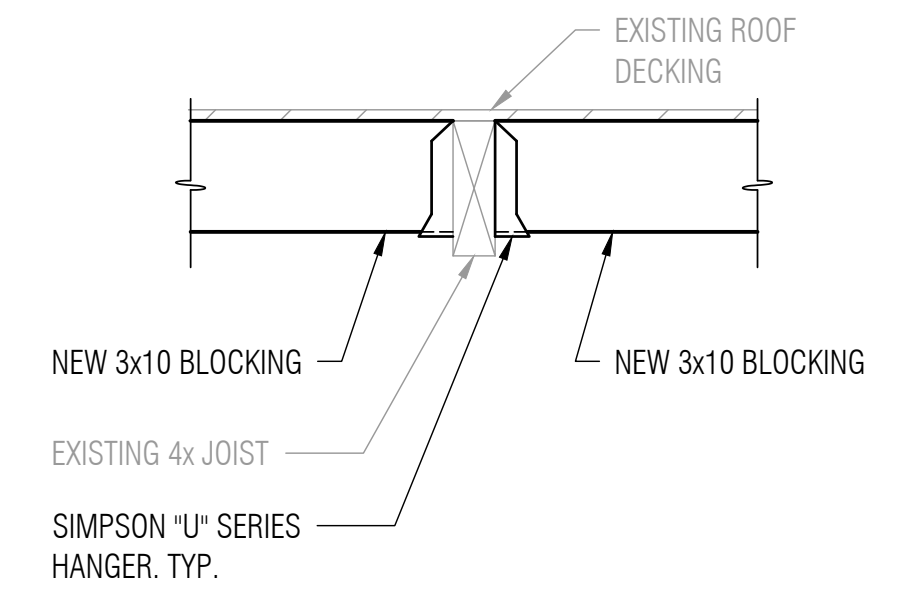
STRUCTURAL Turner Structural  
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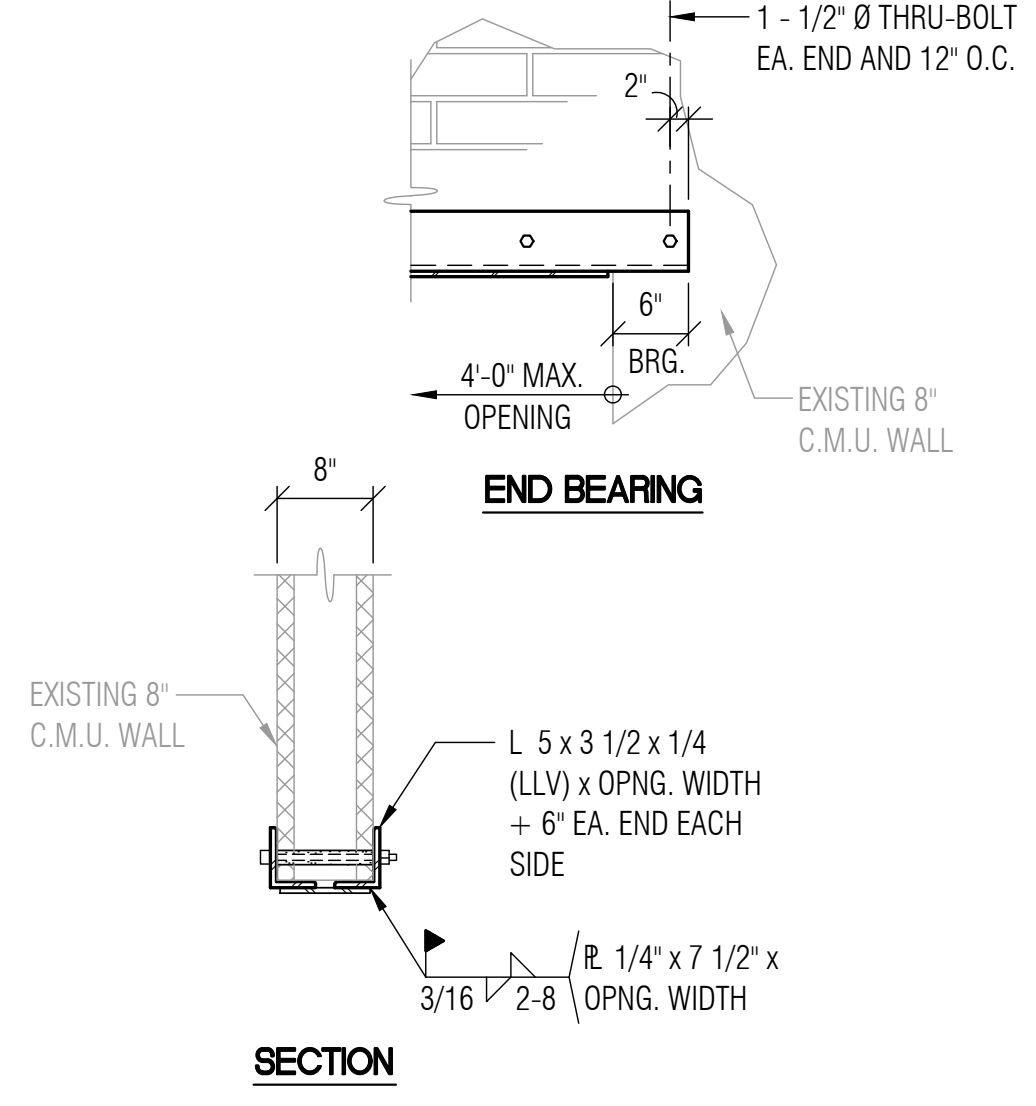
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**ROOF PLAN**



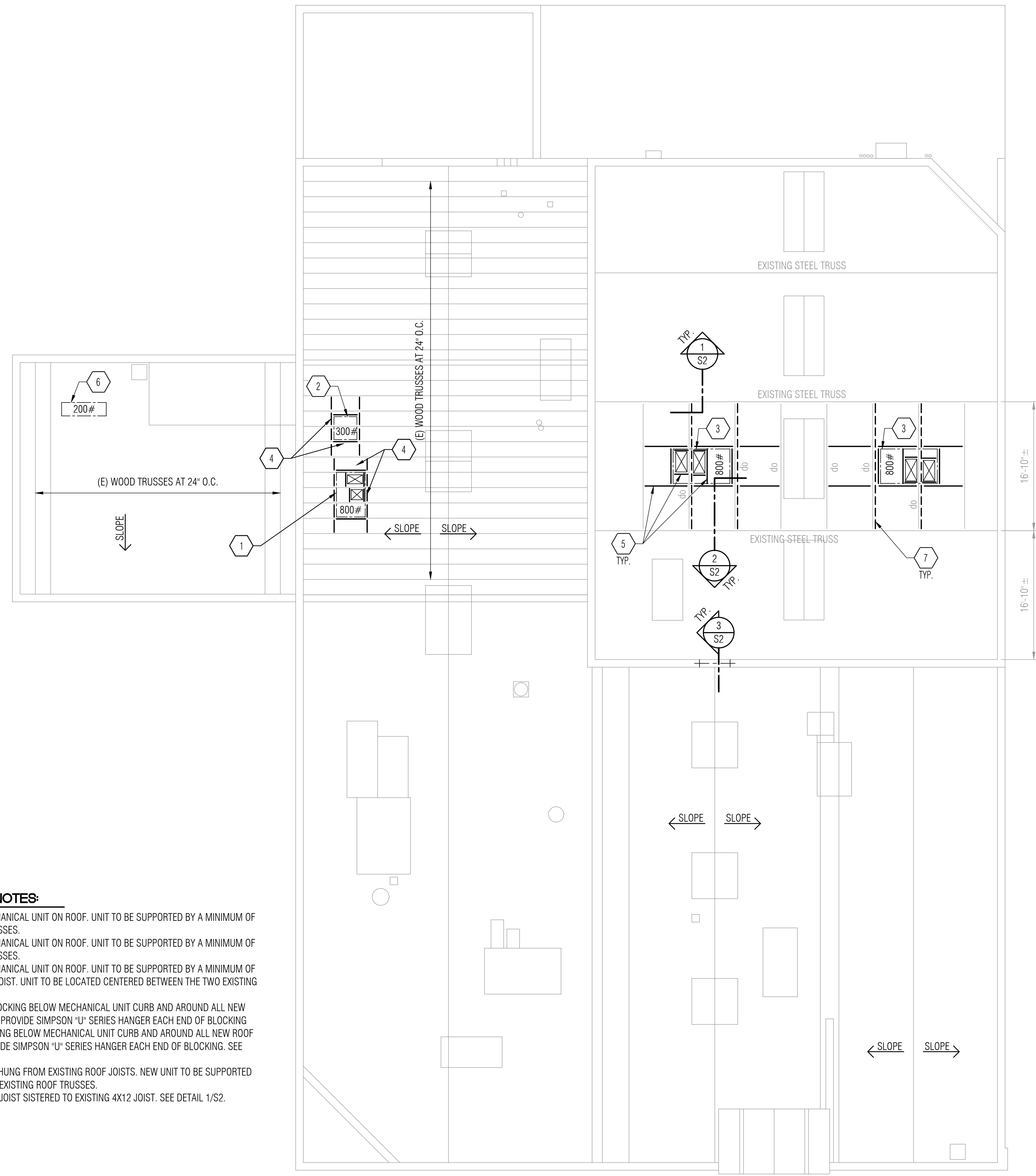
**1 NEW JOIST AT EXISTING 4x JOIST**  
3/4" = 1'-0"



**2 NEW 3x10 BLOCKING AT EXISTING JOIST**  
3/4" = 1'-0"



**3 NEW STEEL LINTEL IN EXTG. WALL**  
3/4" = 1'-0"



- FRAMING KEYNOTES:**
- INDICATES NEW MECHANICAL UNIT ON ROOF. UNIT TO BE SUPPORTED BY A MINIMUM OF 3 EXISTING ROOF TRUSSES.
  - INDICATES NEW MECHANICAL UNIT ON ROOF. UNIT TO BE SUPPORTED BY A MINIMUM OF 2 EXISTING ROOF TRUSSES.
  - INDICATES NEW MECHANICAL UNIT ON ROOF. UNIT TO BE SUPPORTED BY A MINIMUM OF 2 EXISTING 4X ROOF JOIST. UNIT TO BE LOCATED CENTERED BETWEEN THE TWO EXISTING STEEL ROOF JOISTS.
  - PROVIDE NEW 2X6 BLOCKING BELOW MECHANICAL UNIT CURB AND AROUND ALL NEW ROOF PENETRATIONS. PROVIDE SIMPSON 'U' SERIES HANGER EACH END OF BLOCKING.
  - PROVIDE 3X10 BLOCKING BELOW MECHANICAL UNIT CURB AND AROUND ALL NEW ROOF PENETRATIONS. PROVIDE SIMPSON 'U' SERIES HANGER EACH END OF BLOCKING. SEE DETAIL 2.
  - INDICATES NEW UNIT HUNG FROM EXISTING ROOF JOISTS. NEW UNIT TO BE SUPPORTED BY MINIMUM OF TWO EXISTING ROOF TRUSSES.
  - INDICATES NEW 3X12 JOIST SISTERED TO EXISTING 4X12 JOIST. SEE DETAIL 1/S2.

**Building Code Compliant**

REVIEW BY:  
**SAFEbuilt.**

08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing



**Building Code Compliant**

REVIEW BY:  
**SAFEbuilt.**

08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing

T21CM05662

**FIXCITY** LLC  
VALERIE A. LANE, REGISTERED ARCHITECT

345 S CHERRY AVE.  
TUCSON, AZ 85719  
520-834-3603  
FIXCITYLLC@GMAIL.COM



- SHEET NOTES**
1. 2" W DN W/WCO, 2" V UP TO OH.
  2. 3" W DN W/WCO, 2" V UP TO OH.
  3. 4" W DN W/WCO, 2" V UP TO OH.
  4. 4" W DN W/WCO 2" V UP TO 4" VTR. SEE
  5. CONNECT NEW 4" W UG TO <E> W UG. CONTRACTOR TO FIELD VERIFY EXACT SIZE, INVERT & LOCATION OF EXISTING WASTE.
  6. 3/4" CD W/VENTED TRAP & DN THRU ROOF TO OH.
  7. 1" CD OH AND DN. DISCHARGE OVER MOP SINK WITH AIR GAP AND ELBOW DN.
  8. 3/4" CD OH AND DN. CONNECT TO BREAK ROOM SINK TAIL PIECE. SEE

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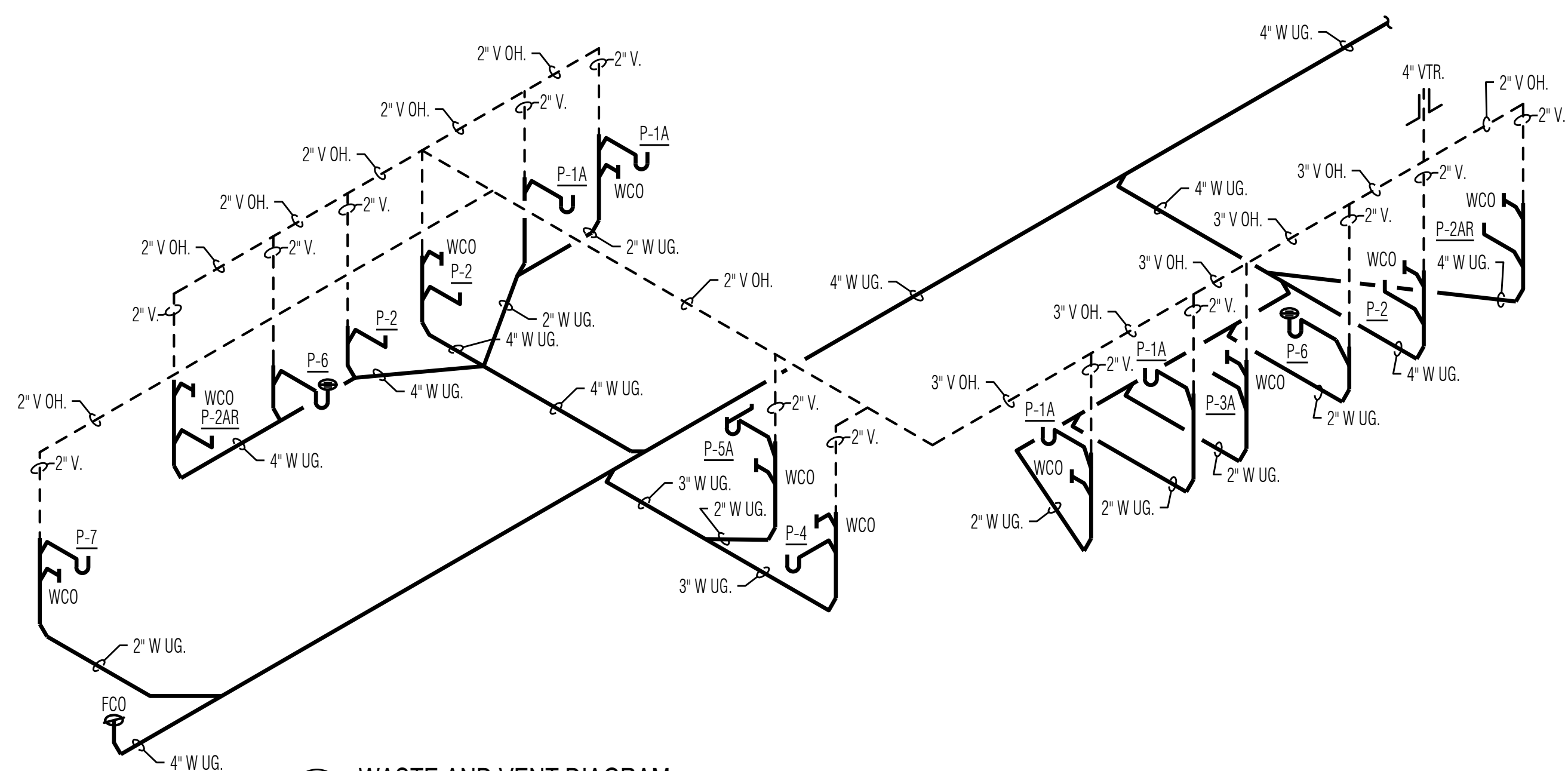
ARCHITECT: FixCity, LLC  
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MECHANICAL: PET Mechanical Engineering  
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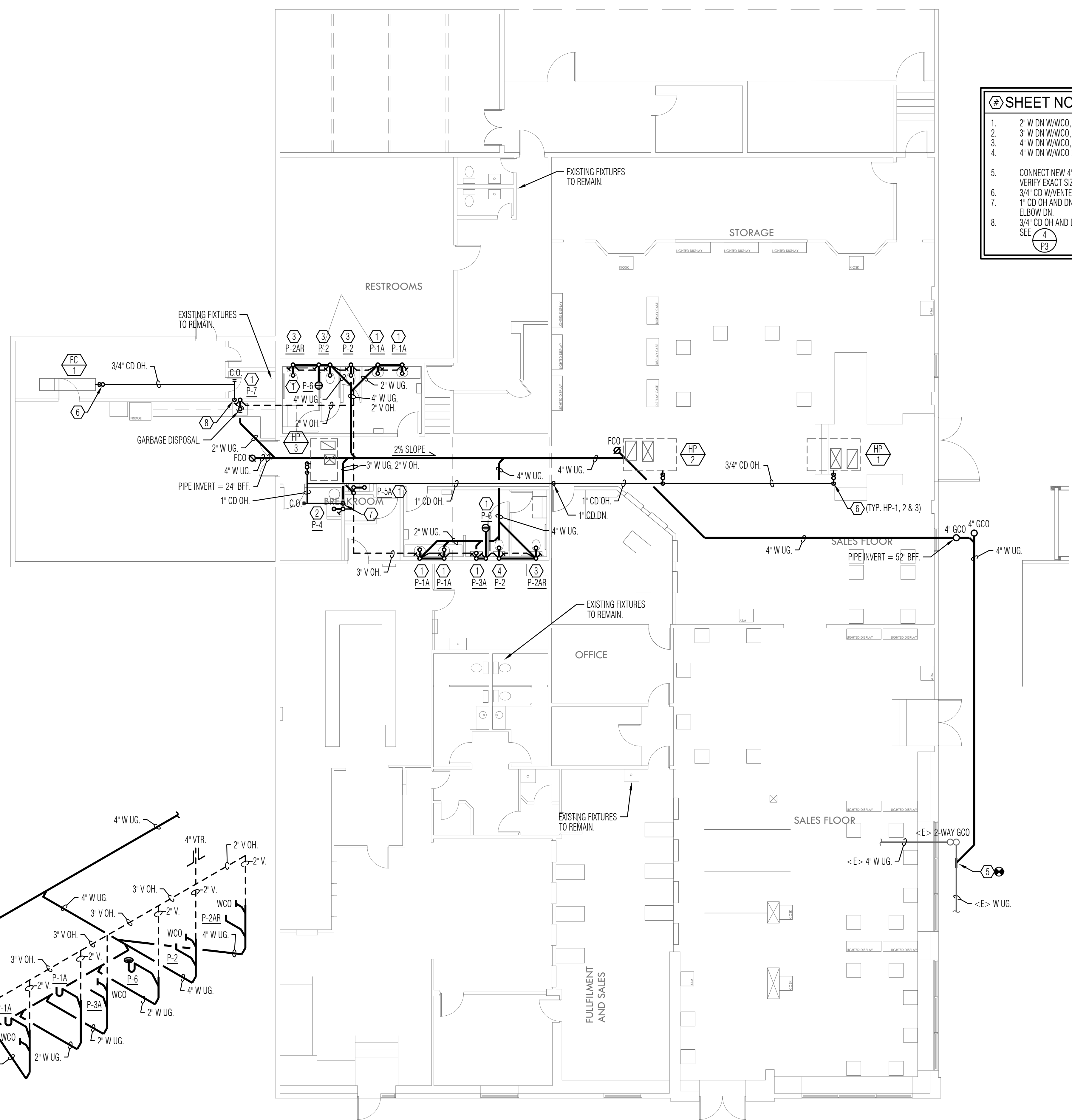
ELECTRICAL: Electrical Design Associates  
esd@a-ea.com  
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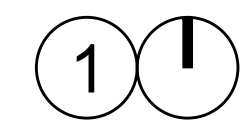
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WASTE AND VENT DIAGRAM  
N.T.S.



FLOOR PLAN - PLUMBING - WASTE & VENT PIPING  
1/8" = 1'-0"



**P1**

**DOWNTOWN DISPENSARY**  
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**FLOOR PLAN - PLUMBING - WASTE & VENT PIPING**

C:\CAD FILES\2021 CAD\202105 Downtown Dispensary\202105\_01.dwg, 7/7/2021, 6:18:33 PM, AECI Full Read D (24.00, 36.00 Inches), 11, Sheet:06

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing



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 221 E 6TH ST  
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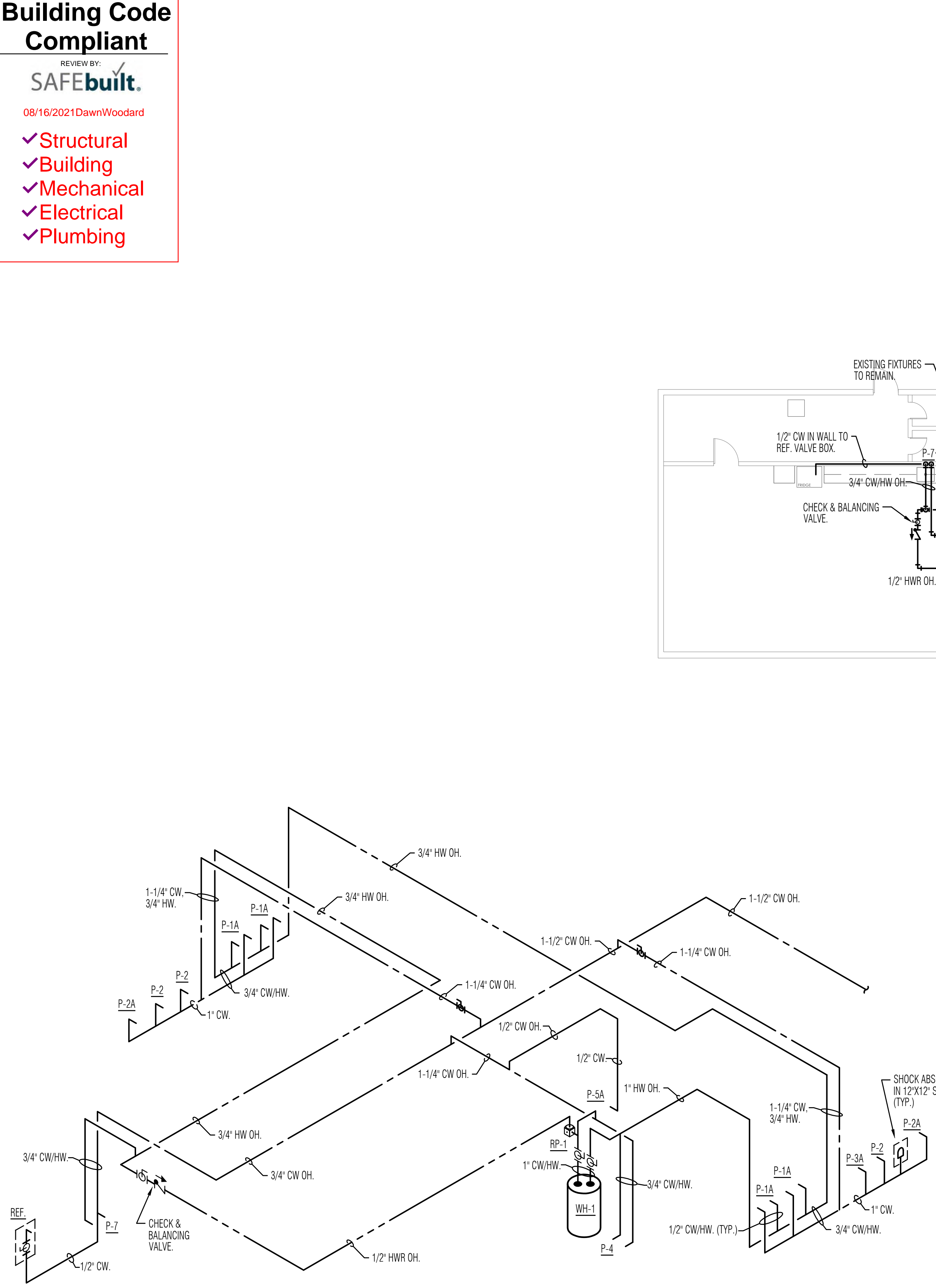
ARCHITECT: FixCity, LLC  
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 pet@petmechanical.com  
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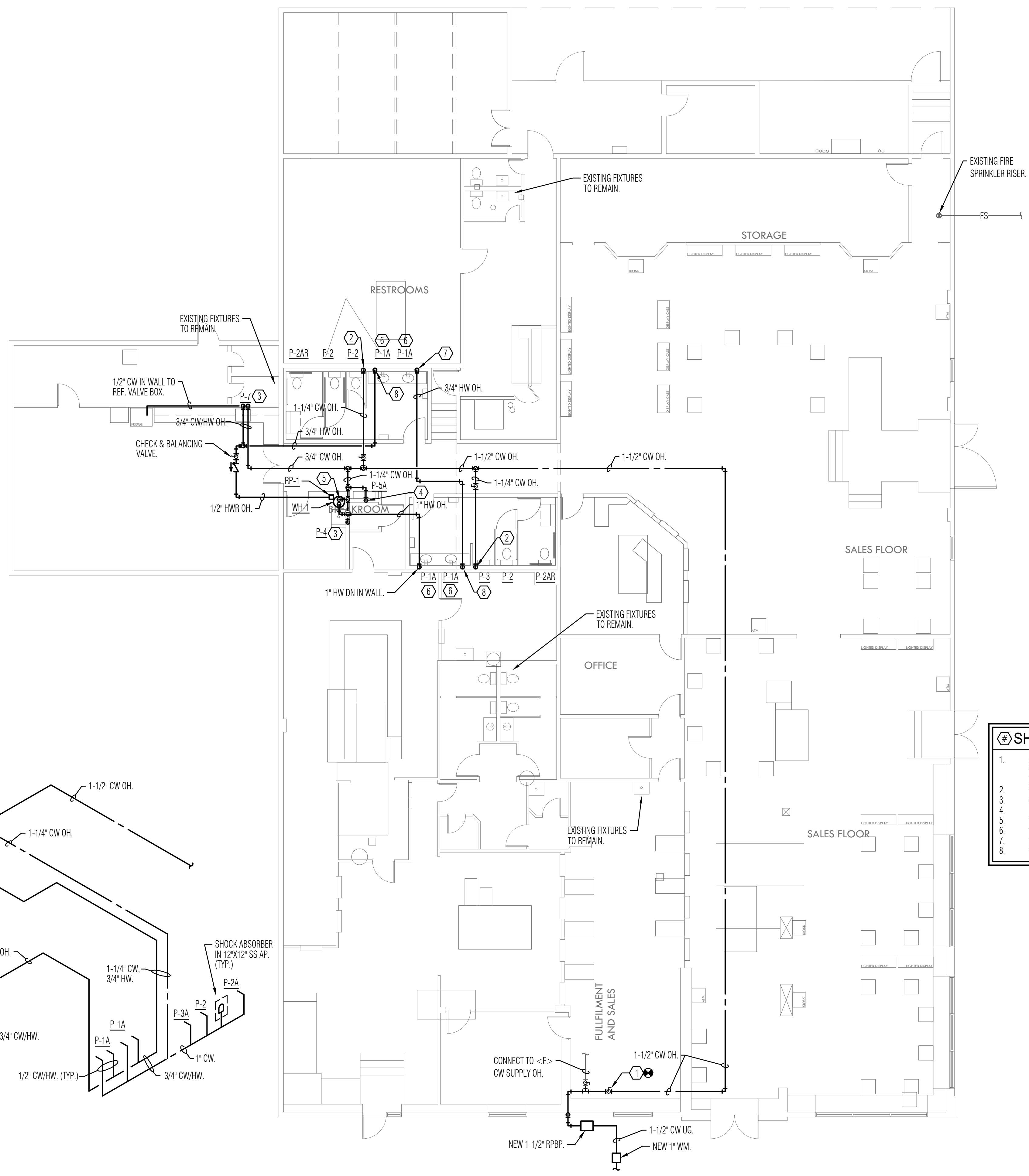
ELECTRICAL: Electrical Design Associates  
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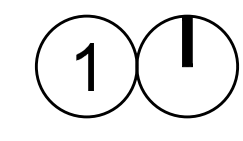
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**2** WATER RISER DIAGRAM  
 N.T.S.



**FLOOR PLAN - PLUMBING - WATER PIPING**  
 1/8" = 1'-0"



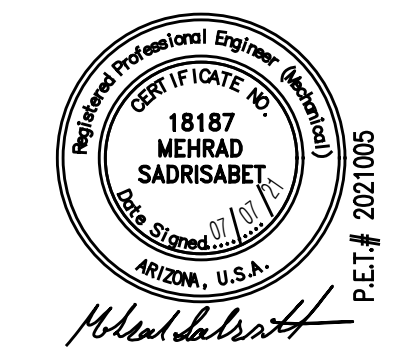
- SHEET NOTES**
1. CONNECT NEW 1-1/2" CW OH TO <E> CW SUPPLY OH. CONTRACTOR TO FIELD VERIFY EXACT SIZE & LOCATION OF EXISTING.
  2. 1-1/4" CW OH AND DN TO PLUMBING FIXTURES. SEE **2/P2**
  3. 3/4" CW/HW OH AND DN TO PLUMBING FIXTURES.
  4. 1/2" CW IN WALL TO PLUMBING FIXTURE.
  5. 1" CW DN TO WH-1, 1" HW UP TO OH.
  6. 1/2" HW TO PLUMBING FIXTURES.
  7. 3/4" HW DN IN WALL.
  8. 3/4" HW UP TO OH.

**DOWNTOWN DISPENSARY**  
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**FLOOR PLAN - PLUMBING - WATER PIPING**



**P2**

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**PLUMBING SPECIFICATIONS**

- INSTALLATION SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE UNIFORM PLUMBING CODE, UPC 2018 AND STATE AMENDMENTS.
- MAKE ARRANGEMENTS FOR AND PAY FOR ALL FEES, PERMITS, LICENSES, CONNECTION CHARGES AND INSPECTIONS REQUIRED FOR PLUMBING WORK. PERFORM REQUIRED TESTS AND SECURE REQUIRED INSPECTIONS PRIOR TO CONCEALING WORK.
- THIS CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, INCLUDING SEWER INVERT & ALL PIPE ROUTING, PRIOR TO BIDDING AND SHALL NOTIFY ARCHITECT OF ANY CONFLICTS WHICH MAY AFFECT THE SCOPE OF WORK.
- ALL OVERHEAD PIPING SHALL BE SUSPENDED FROM THE STRUCTURE ABOVE WITH PIPE HANGERS.
- ALL FIXTURES TO HAVE ACCESSIBLE STOPS WHETHER SPECIFICALLY MENTIONED IN FIXTURE SPECIFICATION OR NOT.
- INSTALL EACH FIXTURE WITH APPROPRIATE TRAP. TRAPS AND NUTS EXPOSED TO VIEW AND IN CASEWORK SHALL BE CHROME-PLATED CAST BRASS WITH CLEANOUT. TRAPS AND NUTS CONCEALED IN WATER COOLERS SHALL BE CAST BRASS WITH CLEANOUT. TRAPS CONCEALED IN WALL CONSTRUCTION, CEILING SPACES OR BELOW FLOORS SHALL BE CAST IRON. ALL BRASS TRAPS SHALL BE READILY REMOVABLE FOR SERVICING.
- WASTE EXTENSIONS EXPOSED TO VIEW AND IN CASEWORK, RUNNING FROM THE TRAP TO THE FINISHED ARCHITECTURAL SURFACE, SHALL BE CHROME-PLATED BRASS.
- SUPPLIES TO FIXTURES SHALL BE CHROME-PLATED, RIGID OR FLEXIBLE BRASS, WITH APPROPRIATE REDUCERS AND ESCUTCHEONS. SUPPLIES SERVING FIXTURE SUPPLY TRIM NOT HAVING INTEGRAL STOPS SHALL BE PROVIDED WITH LOOSE KEY STOPS. SUPPLIES AND STOPS SHALL BE CHICAGO, EASTMAN, MCGUIRE, WOLVERINE, AMERICAN STANDARD OR KOHLER.
- WALL-HUNG LAVATORIES, URINALS, ELECTRIC WATER COOLERS, WATER CLOSETS, AND SPECIAL FIXTURES SHALL BE SUPPORTED WITH COMMERCIAL GRADE CHAIR CARRIERS ESPECIALLY SELECTED TO SUIT INSTALLATION REQUIREMENTS AND AVAILABLE WALL THICKNESS OR CHASE SPACES.
- WALL-HUNG FIXTURES SHALL BE MOUNTED AT PROPER HEIGHTS ABOVE FINISHED FLOOR FOR REGULAR USE AND USE BY THE HANDICAPPED AS DESIGNATED ON DRAWINGS.
- FLOOR-MOUNTED WATER CLOSETS SHALL BE SOLIDLY FASTENED TO FLOOR FLANGE WITH BRASS BOLTS, NUTS, AND WASHERS. PROVIDE BOLT CAPS.
- ALL HOSE-TYPE FAUCETS AND CONNECTIONS SHALL BE PROVIDED WITH VACUUM BREAKERS. AFTER INSTALLATION AND PRIOR TO FINAL ACCEPTANCE, ALL FIXTURES SHALL HAVE ALL LABELS REMOVED AND SHALL BE THOROUGHLY CLEANED WITH MILD DETERGENT AND WATER SOLUTION, RINSED WITH CLEAN WATER, AND WIPE DRY.
- A DIELECTRIC UNION SHALL BE USED TO JOIN ANY DISSIMILAR METAL PIPING OR FITTINGS.
- WRAP ALL PIPING IN BLOCK WALLS OR PENETRATING CONCRETE WITH 10 MIL POLYVINYL TAPE. SLEEVE STEM WALLS WITH PVC SCHEDULE 40 PLASTIC PIPE FOR ALL PIPE PENETRATIONS. COORDINATE WITH GENERAL CONTRACTOR.
- CONTRACTOR SHALL FURNISH ANY MISCELLANEOUS ITEMS NORMALLY USED, SPECIFICALLY MENTIONED OR NOT, TO RENDER A COMPLETE INSTALLATION.
- DOMESTIC WATER PIPING SHALL BE COPPER TYPE "L" DRAWN FOR ABOVE GROUND, TYPE "K" ANNEALED FOR UNDERGROUND WITHIN THE BUILDING AND TO A POINT 4'-0" FROM THE BUILDING SLAB. ALL JOINTS SHALL BE MADE WITH A LEAD-FREE SOLDER. SITE WATER PIPING TO A POINT 4'-0" FROM THE BUILDING SLAB MAY BE PVC SCHEDULE 40 PLASTIC PIPE.
- WASTE, VENT AND DRAIN PIPING SHALL BE NO-HUB CAST IRON OR ABS PLASTIC PIPE. PIPING IN RETURN AIR PLENUM SHALL BE NO-HUB CAST IRON PIPE. PROVIDE PROPER TRANSITION FITTINGS AT CONNECTIONS BETWEEN PIPING OF DIFFERENT MATERIALS. INTERIOR WASTE PIPING SHALL SLOPE AT MINIMUM 2% (1/4" PER FOOT). INDIRECT WASTE PIPING SHALL BE TYPE DWV COPPER PIPE.
- CONDENSATE PIPING SHALL BE TYPE "M" COPPER PIPE. PROVIDE SCREWED PLUGS AT ALL ELBOWS FOR CLEANOUTS. CONDENSATE PIPE WITHIN THE BUILDING SHALL BE INSULATED WITH 1/2" ARMAFLEX FOR ITS FULL LENGTH. CONDENSATE PIPE SHALL BE TRAPPED AND VENTED ON DOWNSTREAM SIDE OF TRAP AT A/C UNIT IN ACCORDANCE WITH U.P.C. AND LOCAL AMENDMENTS.
- TESTING: ALL TESTING SHALL BE DONE IN THE PRESENCE OF THE ARCHITECT OR OWNER'S REPRESENTATIVE. COMPLETE AND TEST PIPE ROUGH-IN BEFORE INSULATION OR OTHER FINISH WORK IS APPLIED. COVERING OF WORK BEFORE ACCEPTANCE IS PROHIBITED. SUBMIT A TESTING CERTIFICATE FOR EACH PIPING SYSTEM. DO NOT TEST RELIEF VALVES, PRESSURE-REDUCING VALVES, VALVES, OR EQUIPMENT BEYOND ITS RATED CAPACITY. TEST ALL PIPE IN ACCORDANCE WITH PLUMBING CODE. PRESSURE TEST COMPLETE SYSTEM WITH WATER AT 100 PSI FOR FOUR HOURS WITH NO DECAY IN PRESSURE. VISUALLY INSPECT JOINTS FOR LEAKS. REPAIR OR REPLACE AS REQUIRED AND RETEST. SOAP OR BUBBLE TEST JOINTS FOR LEAKS. REPAIR OR REPLACE AS REQUIRED AND RETEST. TEST WASTE AND VENT PIPE PER U.P.C. WITH 10 FEET OF STATIC HEAD.
- FLUSHING: PLUMBING WASTE AND VENT: FLUSH WITH CLEAR WATER TO REMOVE DIRT AND DEBRIS.
- FLUSHING: DOMESTIC HOT AND COLD WATER: FLUSH PIPE FREE OF DIRT AND DEBRIS WITH FRESH WATER. DISINFECT LINES WITH FLUID CHLORINE OR HYPOCHLORITE. INTRODUCE SUFFICIENT CHLORINE TO PROVIDE AN INITIAL CONCENTRATION OF 50 PPM. DISINFECT FOR 24-HOUR PERIOD, OPENING AND CLOSING VALVES IN SYSTEM AT VARIOUS POINTS DURING DISINFECTION. FOLLOWING CHLORINATION, THOROUGHLY FLUSH COMPLETE SYSTEM UNTIL REPLACEMENT WATER IS SAME QUALITY AS INCOMING CITY WATER. CERTIFY IN WRITING, ORIGINAL AND THREE (3) COPIES, THAT THE WATER LINES HAVE BEEN STERILIZED AND THAT APPROVAL OF THE INSTALLATION WAS OBTAINED FROM THE AUTHORITIES TO BE IN ACCORDANCE WITH REQUIREMENTS OF U.P.C. AND LOCAL AUTHORITIES.
- ALL VENTS THROUGH ROOF TO BE FLASHED WITH 4 LB LEAD SHEET EXTENDING AROUND PIPE 8" IN ALL DIRECTIONS. TURN LEAD SHEET DOWN 2" INTO PIPE. VTRS. TO BE A MINIMUM 10'-0" FROM OR 3'-0" ABOVE OUTSIDE AIR INTAKES OF HVAC EQUIPMENT AND 1'-0" FROM ANY VERTICAL SURFACES WHETHER SPECIFICALLY INDICATED ON PLANS OR NOT.
- INSULATION SHALL BE INSTALLED ON ALL HOT WATER PIPING ABOVE GRADE. INSULATE PIPING IN AREAS WHERE PIPING MIGHT BE SUBJECT TO FREEZING. PIPE INSULATION SHALL BE 1" THICK. INSULATION SHALL BE FIBERGLASS OR EQUAL LOW PRESSURE PIPE INSULATION WITH ASJ OR ARMAFLEX. ALL JOINTS OF INSULATION SHALL BE NEATLY SEALED WITH TAPE AND LAGGING ADHESIVE.
- SUBMIT SIX (6) COPIES OF SHOP DRAWINGS OR LITERATURE IN AN INDEXED THREE-RING BINDER ON THE FOLLOWING ITEMS: PLUMBING FIXTURES, ETC. AS SPECIFIED.
- FURNISH THREE (3) SETS OF OPERATION, MAINTENANCE AND WARRANTY LITERATURE IN A THREE-RING BINDER.
- MAKE NOTE OF ANY CHANGES IN LAYOUT AND INCORPORATE IN 'RECORD' DRAWINGS.
- ALL WATER HEATERS SHALL BE PROVIDED WITH AN ASME RATED EXPANSION TANK AND AN ASME RATED PRESSURE/TEMPERATURE RELIEF VALVE. P-T RELIEF LINE SHALL BE TYPE "L" HARD DRAWN COPPER.
- CONTRACTOR SHALL GUARANTEE ALL PARTS AND LABOR FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE OF PROJECT.

**PLUMBING FIXTURE SPECIFICATIONS**

<p>P-1A: LAVATORY (COUNTERTOP - A.D.A.): AMERICAN STANDARD MODEL #0476.028 "AQUALYN" LAVATORY, SELF-RIMMING, VIT. CHINA, PUNCHED FOR 4" CENTER FAUCET HOLES, INSTALL PER ADA REQUIREMENTS.</p> <p>FAUCET: DELTA MODEL #86T1153 SELF-CLOSING METERING FAUCET, TWO HANDLES, 0.5 GPM VANDAL RESISTANT SPRAYHEAD, CHROME FINISH, GRID STRAINER. MAXIMUM 0.25 GALLONS PER METERING CYCLE.</p> <p>THERMOSTATIC MIXING VALVE: WATTS "UNDER SINK GUARDIAN" SERIES USG-B FOR CONCEALED OR USG-B-SC SATIN CHROME FINISH FOR EXPOSED INSTALLATION. VALVE SHALL BE ASSE 1070 LISTED, BRONZE BODY WITH INTEGRAL CHECK VALVES ON THE HOT AND COLD INLETS AND AN ADJUSTMENT CAP WITH LOCKING FEATURE. VALVE SHALL HAVE STAINLESS STEEL DISC, SPRINGS AND COPPER THERMOSTAT. PROVIDE 3/8" MALE COMPRESSION FITTINGS. VALVE SHALL BE SET FOR 110°F LEAVING WATER TEMPERATURE, AND SHALL MAINTAIN TEMPERATURE WITHIN 3°F.</p> <p>TRAP: HEAVY CAST BRASS P-TRAP, CHROME PLATED, 1-1/4" X 1-1/2" WITH 2" X 6" CHROME PLATED FLANGED COVER TUBE, 1-1/4" BRASS NIPPLE THROUGH WALL AND CLEANOUT.</p> <p>SUPPLIES: EASTMAN MODEL #CSM15 ANGLE STOPS, 1/2", LOOSE KEY, FLEXIBLE TUBE RISERS, CHROME PLATED.</p> <p>NOTE: PROVIDE TRUEBRO MODEL #102 "HANDI LAV-GUARD" INSULATION KIT FOR P-TRAP AND SUPPLIES.</p>	<p>P-5A: ELECTRIC WATER COOLER (A.D.A. - TWO STATIONS W/ BOTTLE FILLER): ELKAY TWO-LEVEL WHEELCHAIR ACCESS ENHANCED EZH2O BOTTLE FILLING STATION MODEL #LZSTLWSSP WALL MOUNT, NO LEAD, BARRIER-FREE ELECTRIC WATER COOLER, STAINLESS STEEL, "FLEXI-GUARD" SAFETY BUBBLERS, FRONT PRESS BAR AT EACH UNIT, PROVIDE MODEL #LKAPREZL APRON INSTALL UNDER UPPER UNIT TO MATCH THE LOWER WATER COOLER HEIGHT. 1/5 HP, 370 WATTS, 5 FLA., 115/1/60.</p> <p>TRAP AND SUPPLIES: HEAVY CAST BRASS P-TRAP, CHROME PLATED, 1-1/4" X 1-1/2" WITH 2" X 6" CHROME PLATED FLANGED COVER TUBE, 1-1/4" BRASS NIPPLE THROUGH WALL AND CLEAN OUT.</p>
<p>P-2: WATER CLOSET (TANK - GRAVITY FLUSH): AMERICAN STANDARD MODEL #2427.012 "EVOLUTION 2" ELONGATED WATER CLOSET, 1.6 GALLON GRAVITY FLUSH, VIT. CHINA, SIPHON ACTION, ELONGATED BOWL, 12" ROUGH-IN, TWO PIECE.</p> <p>SEAT: CHURCH MODEL #9500C WATER CLOSET SEAT, OPEN FRONT, PLASTIC, LESS COVER, ELONGATED, WHITE.</p> <p>SUPPLIES: EASTMAN MODEL #CSM15 ANGLE STOPS, 1/2", LOOSE KEY, FLEXIBLE TUBE RISERS, CHROME PLATED.</p>	<p>P-6: FLOOR DRAIN: WADE MODEL #1102-NH-STD6 CAST IRON FLOOR DRAIN, FLANGES, INTEGRAL CLAMPING COLLAR, ADJUSTABLE 6" SATIN NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION, 2" OUTLET.</p>
<p>P-2AR: WATER CLOSET (TANK - GRAVITY FLUSH - A.D.A.): AMERICAN STANDARD MODEL #3068.016 BOWL WITH TANK MODEL #4061.800 "EVOLUTION 2 RIGHT HEIGHT" WATER CLOSET, 1.6 GALLON GRAVITY FLUSH, VIT. CHINA, SIPHON ACTION, ELONGATED BOWL, TWO PIECE INSTALL PER ADA REQUIREMENT WITH TRIP LEVER ON THE RIGHT.</p> <p>SEAT: CHURCH MODEL #9500C WATER CLOSET SEAT, OPEN FRONT, PLASTIC, LESS COVER, ELONGATED, WHITE.</p> <p>SUPPLIES: EASTMAN MODEL #CM612-4AS 1/2" ANGLE STOP, CHROME PLATED, LOOSE KEY, FLEXIBLE TUBE RISER.</p>	<p>P-7: BREAK ROOM SINK: ELKAY MODEL #LR-2522 SINGLE COMPARTMENT SINK, 18 GAUGE STAINLESS STEEL, 21" X 15-3/4" X 8-1/8" COMPARTMENT, THREE HOLES PUNCHED, #LK-99 STRAINER.</p> <p>FAUCET: DELTA MODEL #3579 WHDF FAUCET, GOOSENECK SPOUT, 4" WRIST BLADE HANDLES, CHROME PLATED, AERATOR AND GRID STRAINER.</p> <p>TRAP: HEAVY CAST BRASS P-TRAP, CHROME PLATED, 1-1/4" X 1-1/2" WITH 2" X 6" CHROME PLATED FLANGED COVER TUBE, 1-1/2" BRASS NIPPLE THROUGH WALL AND CLEAN OUT.</p> <p>SUPPLIES: EASTMAN MODEL #CSM15 ANGLE STOPS, 1/2", LOOSE KEY, FLEXIBLE TUBE RISERS, CHROME PLATED.</p> <p>GARBAGE DISPOSAL: IN-SINK-ERATOR MODEL #444, 3/4" HP, 115-1-60 WITH CONTINUOUS FEED.</p>
<p>P-3A: URINAL (A.D.A.): AMERICAN STANDARD MODEL #6501.010 "ALLBROOK 1.0" URINAL, VIT. CHINA, WALL HUNG, SIPHON JET FLUSH ACTION, 1.0 GALLON FLUSH, INTEGRAL TRAP, WALL HANGERS, 3/4" TOP SPUD. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS.</p> <p>CARRIER: WADE MODEL #W-400 SERIES AS REQUIRED.</p> <p>FLUSH VALVE: SLOAN ROYAL MODEL #186-1 FLUSH VALVE.</p>	<p>P-8: SHOWER: AMERICAN STANDARD MODEL #2427.012 "EVOLUTION 2" ELONGATED WATER CLOSET, 1.6 GALLON GRAVITY FLUSH, VIT. CHINA, SIPHON ACTION, ELONGATED BOWL, 12" ROUGH-IN, TWO PIECE.</p> <p>SEAT: CHURCH MODEL #9500C WATER CLOSET SEAT, OPEN FRONT, PLASTIC, LESS COVER, ELONGATED, WHITE.</p> <p>SUPPLIES: EASTMAN MODEL #CM612-4AS 1/2" ANGLE STOP, CHROME PLATED, LOOSE KEY, FLEXIBLE TUBE RISER.</p>
<p>P-3: URINAL: AMERICAN STANDARD MODEL #6501.010 "ALLBROOK 1.0" URINAL, VIT. CHINA, WALL HUNG, SIPHON JET FLUSH ACTION, 1.0 GALLON FLUSH, INTEGRAL TRAP, WALL HANGERS, 3/4" TOP SPUD. INSTALL IN ACCORDANCE WITH A.D.A. REQUIREMENTS.</p> <p>CARRIER: WADE MODEL #W-400 SERIES AS REQUIRED.</p> <p>FLUSH VALVE: SLOAN ROYAL MODEL #186-1 FLUSH VALVE.</p>	<p>P-8: SHOWER: AMERICAN STANDARD MODEL #2427.012 "EVOLUTION 2" ELONGATED WATER CLOSET, 1.6 GALLON GRAVITY FLUSH, VIT. CHINA, SIPHON ACTION, ELONGATED BOWL, 12" ROUGH-IN, TWO PIECE.</p> <p>SEAT: CHURCH MODEL #9500C WATER CLOSET SEAT, OPEN FRONT, PLASTIC, LESS COVER, ELONGATED, WHITE.</p> <p>SUPPLIES: EASTMAN MODEL #CSM15 ANGLE STOPS, 1/2", LOOSE KEY, FLEXIBLE TUBE RISERS, CHROME PLATED.</p>

MARK	FIXTURE	QTY	CONNECTION (in.)				WATER		WASTE	
			HW	CW	W	V	F.U.	TOT. F.U.	F.U.	TOT. F.U.
EXISTING FIXTURES										
P-1	LAVATORY	5	1/2	1/2	2	2	1	5	1	5
P-2	WATER CLOSET	6	-	1/2	4	2	2.5	15	4	24
P-3	URINAL	1	-	3/4	2	2	4	4	2	2
P-4	MOP SINK	1	1/2	1/2	3	2	3	3	3	3
P-7	SINK	5	1/2	1/2	2	2	2	10	2	10
P-8	SHOWER	1	1/2	1/2	2	2	2	2	2	2
TOTAL EXISTING								39		46
NEW FIXTURES										
P-1A	LAVATORY (ADA)	4	1/2	1/2	2	2	1	4	1	4
P-2	WATER CLOSET	3	-	1/2	4	2	2.5	7.5	4	12
P-2AR	WATER CLOSET (ADA)	2	-	1/2	4	2	2.5	5	4	8
P-3	URINAL	1	-	3/4	2	2	4	4	2	2
P-4	MOP SINK	1	1/2	1/2	3	2	3	3	3	3
P-5A	EW (ADA)	1	-	1/2	2	2	0.5	0.5	0.5	0.5
P-6	BREAK ROOM SINK	1	1/2	1/2	2	2	2	2	2	2
TOTAL NEW								26		31.5
BUILDING TOTAL:								65		77.5

NOTE: THE FIXTURE UNIT (WATER AND WASTE) SHOWN ARE PER ADOPTED LOCAL PLUMBING CODE FOR PIPE SIZING. THE SEWER CONNECTION FEE SHALL BE BASED ON THE LOCAL WASTE MANAGEMENT REQUIREMENT

**PLUMBING LEGEND**

SYMBOL	ABBREV.	ITEM
□	ADA	AMERICANS WITH DISABILITIES ACT
—	AP	ACCESS PANEL
—	BF	BELOW FLOOR
—	CD	CONDENSATE DRAIN
—	C.O.	CLEAN OUT
—	CW	COLD WATER
—	DN	DOWN
—	DW	DISHWASHER
—	<E>	EXISTING
—	EW	EXISTING WASTE
—	EW/C	ELECTRIC WATER COOLER
—	FCO	FLOOR CLEANOUT
—	FU	FIRE SPRINKLER
—	FV	FIXTURE UNIT
—	FW	FLAT VENT
—	GCO	GROUND CLEANOUT
—	2-WAY GCO	2-WAY GROUND CLEANOUT
—	HB	HOSE BIBB
—	HW	HOT WATER
—	HWR	HOT WATER RETURN
—	<N>	NEW
—	OH	OVERHEAD
—	REF.	REFRIGERATOR
—	ORWL	OVERFLOW RAINWATER LEADER
—	P-T	PRESS./TEMP. RELIEF
—	R.P.B.P.	REDUCED PRESSURE BACKFLOW PREVENTER
—	SOV	SHUT-OFF VALVE
—	SS	STAINLESS STEEL
—	UG	UNDERGROUND
—	UNION	UNION
—	V	VENT PIPING
—	VTR	VENT THRU ROOF
—	WCO	WALL CLEANOUT
—	W	WASTE

**WATER CALCULATION**

STATIC PRESSURE: 48-55 PSI (FROM TUCSON WATER)  
 USE: 48 PSI (DESIGN PRESSURE)  
 SUBTRACT LOSSES: 18 PSI (PRESS. RED. AT P-2)  
 9 PSI (METER)  
 10 PSI (BACKFLOW PREVENTER)  
 6.45 PSI (ELEVATION (15 X 0.43 = 6.45))  
 7.55 PSI (REMAINING FOR PIPE LOSS)

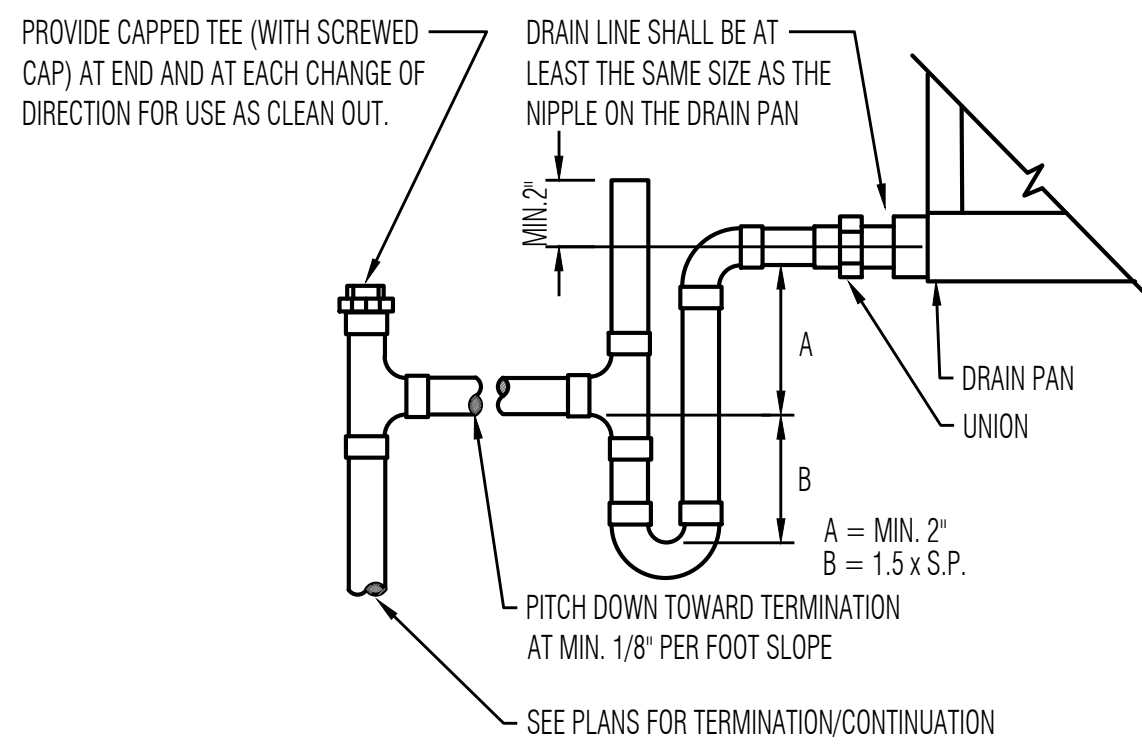
DEVELOPED PIPE LENGTH: 230 FEET  
 EQUIVALENT PIPE LENGTH: 230 FEET X 1.25 = 287.5 FEET

CALCULATE ALLOWABLE PIPE LOSS PER 100 FEET OF PIPE:  
 7.55 X 100 FEET = 2.6 PSI ALLOWABLE LOSS PER 100 FEET  
 287.5 FEET

NOTES:  
 1. PIPING SIZE LIMITED TO 8 FEET PER SECOND MAX. VELOCITY.  
 2. CALCULATIONS BASED ON THE INSTALLATION OF ONE 1 INCH WATER METER AND ONE 1-1/2" R.P.B.P. WITH A MAXIMUM FLOW OF 35 GPM.

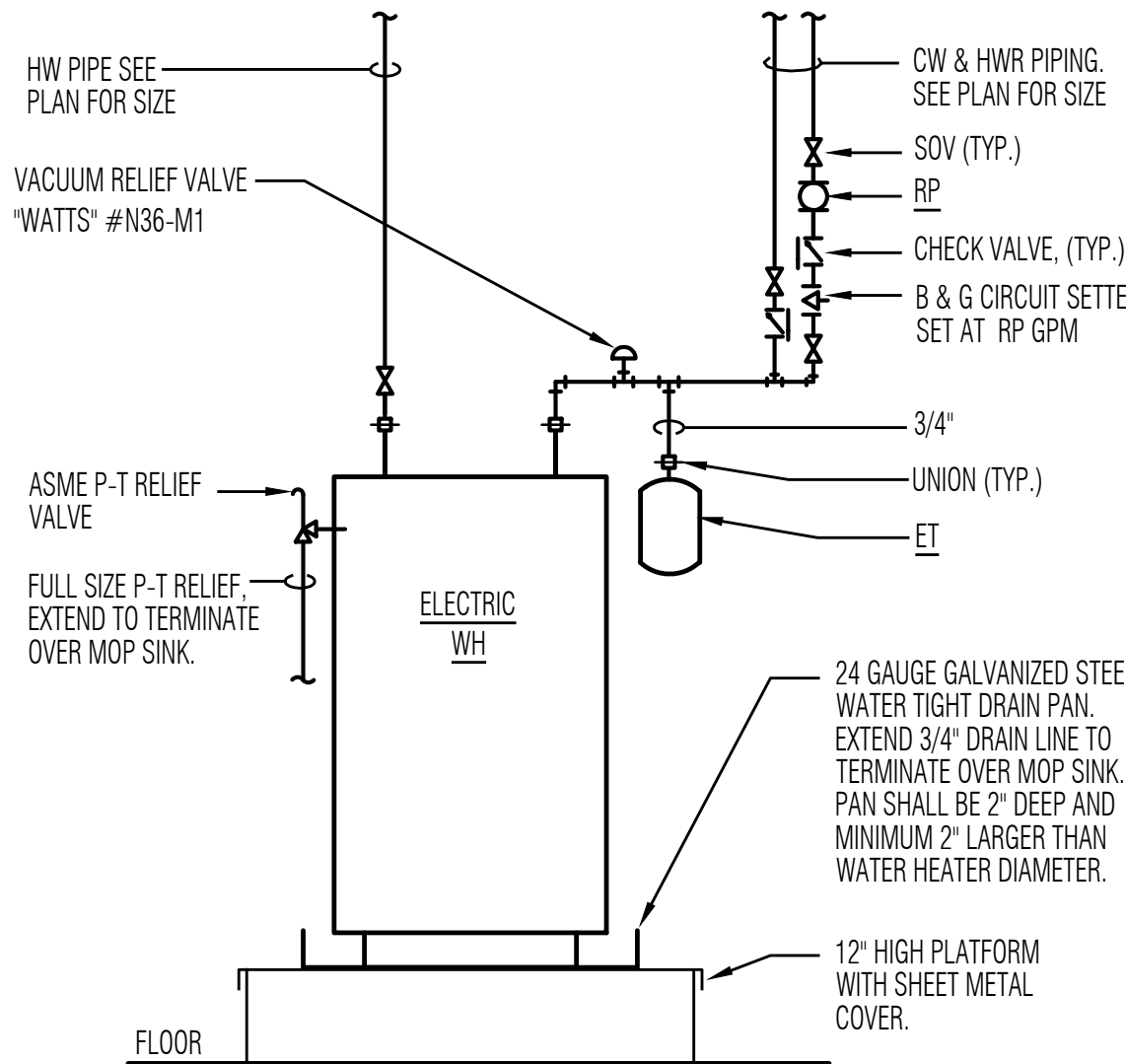
**EXISTING WATER METER INFORMATION**

- EXISTING WATER METER SIZE = 5/8" (REPLACE WITH NEW 1" WM)
- EXISTING WATER METER #15077693
- INSTALL NEW 1" WATER METER WITH 1-1/2" RPBP.



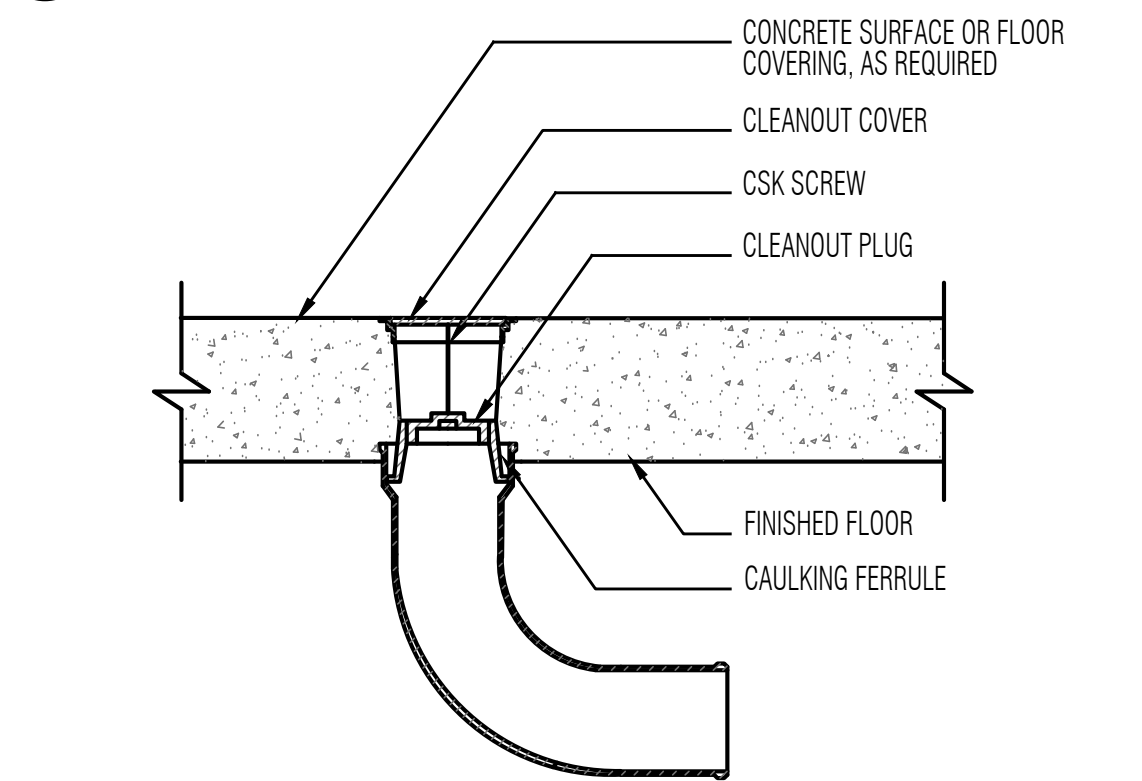
**1 CONDENSATE TRAP DRAIN**

N.T.S. P-006



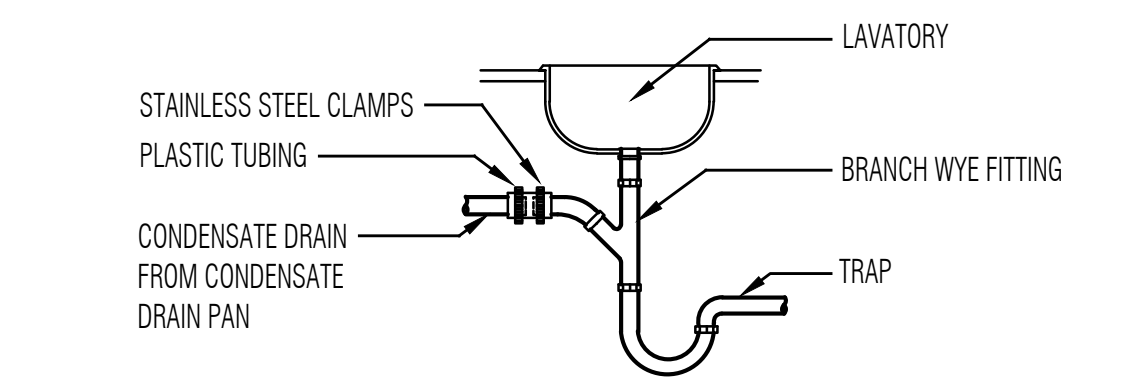
**2 ELECTRIC WATER HEATER PIPING SCHEMATIC**

N.T.S. P-0728



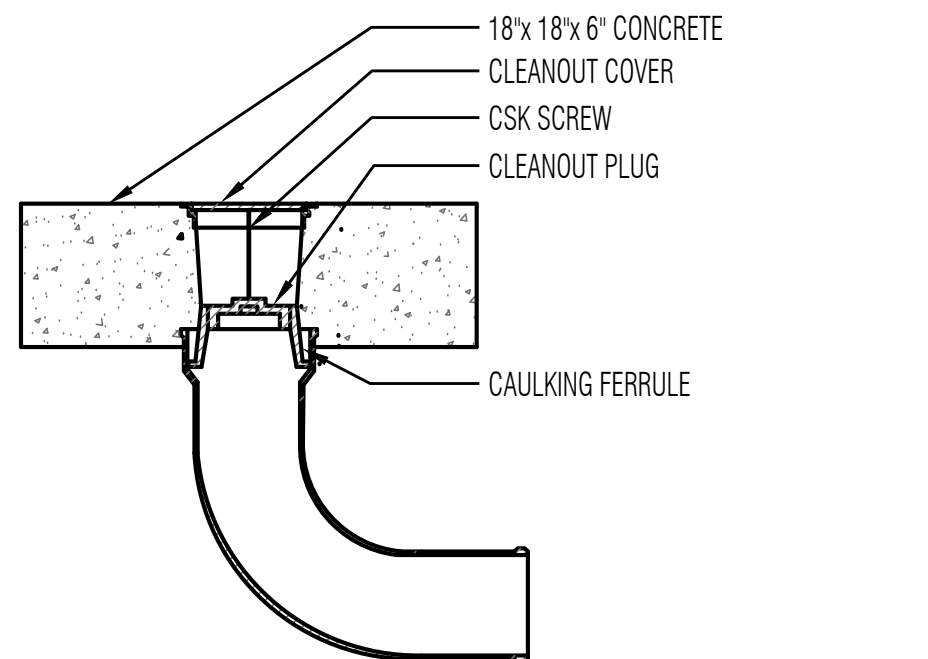
**3 FLOOR CLEANOUT IN FINISHED ROOMS**

N.T.S. P-043



**4 CONDENSATE DRAIN TO LAVATORY TRAP CONNECTION**

N.T.S. P-046



**5 GROUND CLEAN-OUT**

N.T.S. P-044

DOWNTOWN DISPENSARY

221 E 6TH ST

TUCSON, AZ 85705

PLUMBING SPECIFICATIONS

P3

**Building Code Compliant**

REVIEW BY: **SAFEbuilt.**

08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing



Building Code Compliant

REVIEW BY: SAFEbuilt.

08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing

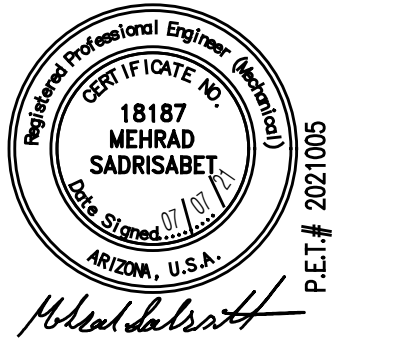
FIXCITY LLC

VALERIE A. LANE, REGISTERED ARCHITECT

345 S CHERRY AVE. TUCSON, AZ 85719

520-834-3603

FIXCITYLLC@GMAIL.COM



PROF. OWNER: David Nichols Realty, Inc. 221 E 6TH ST TUCSON, AZ 85705

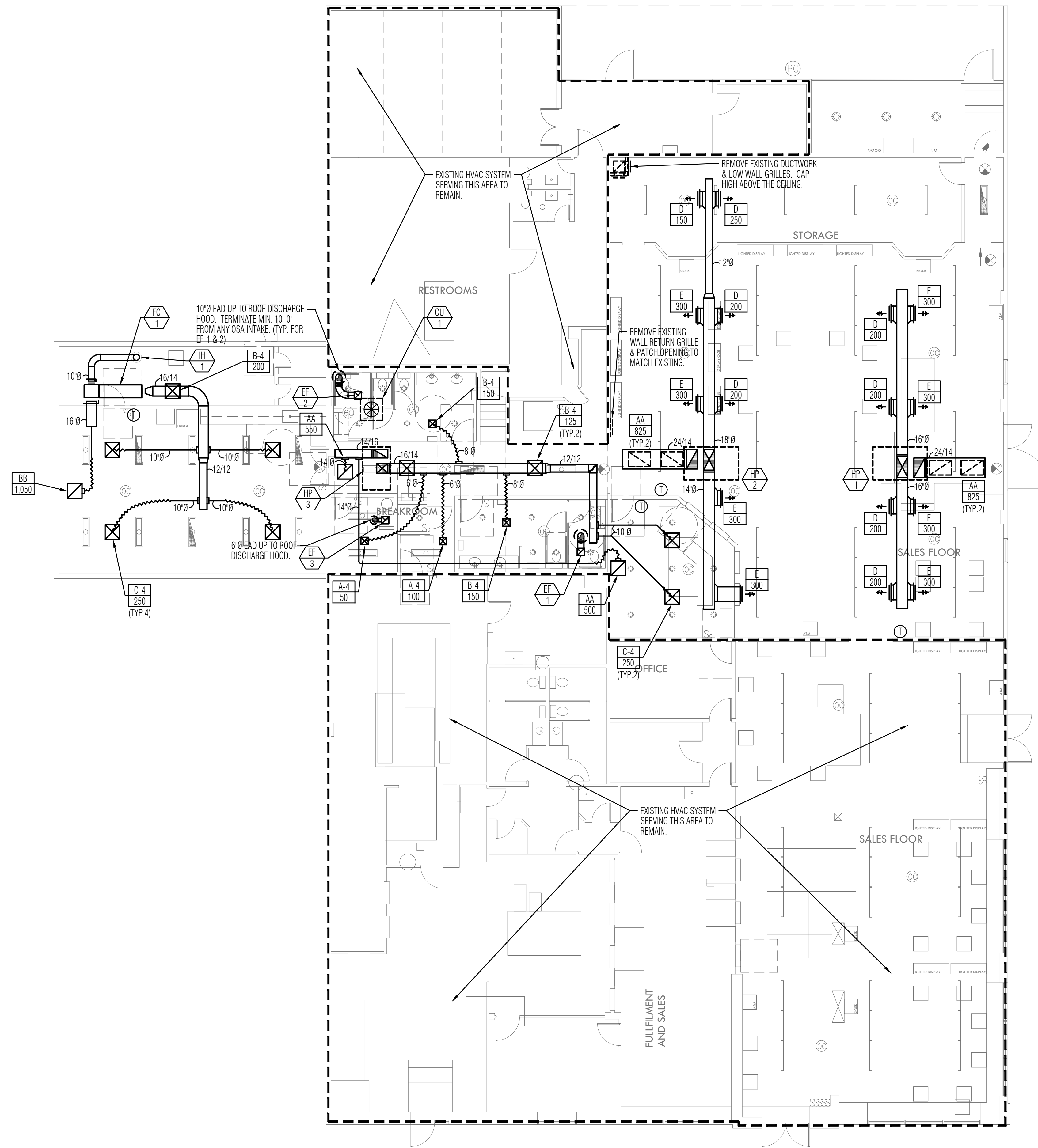
ARCHITECT: FixCity, LLC Valerie A. Lane, RA 520-834-3603

MECHANICAL: PEI Mechanical Engineering pei@peimechanical.com 520-881-1711

ELECTRICAL: Electrical Design Associates elek@edo-az.com 520-622-2196

STRUCTURAL: Turner Structural turner@turnerstructural.com 520-323-3422

TENANT: Downtown Dispensary 221 E 6TH ST TUCSON, AZ 85705

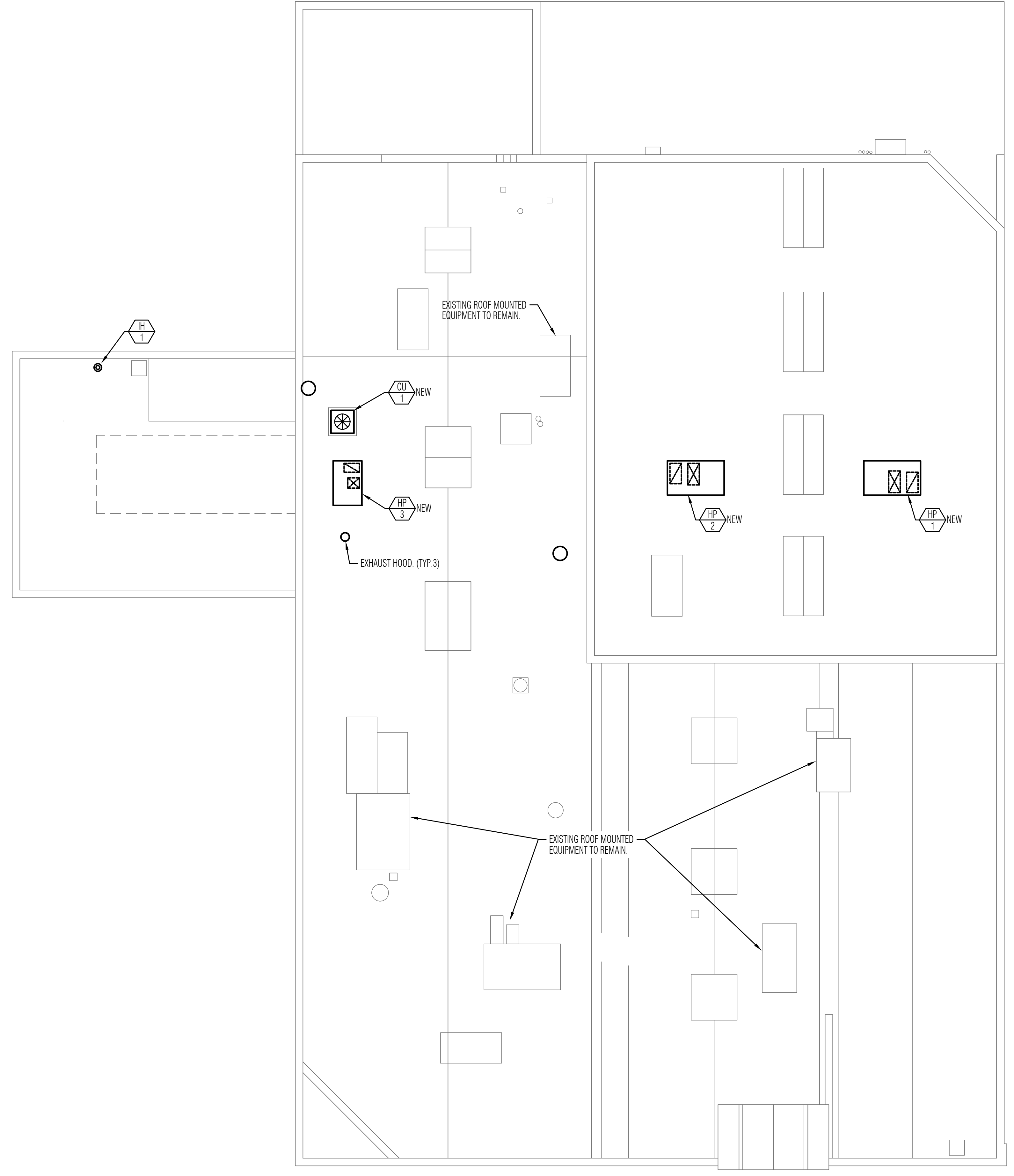
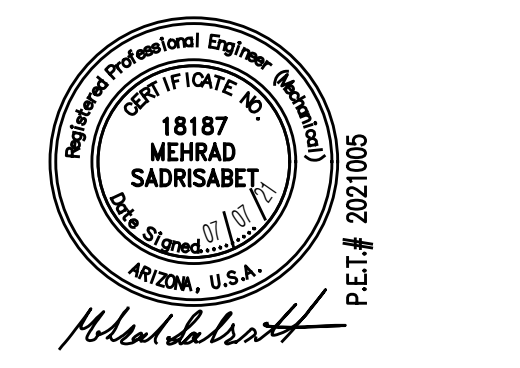


**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
**FLOOR PLAN - HVAC**

FLOOR PLAN - HVAC 1/8" = 1'-0" 1 1



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**GENERAL NOTE**  
COORDINATE EXACT LOCATION OF ALL NEW ROOF MOUNTED EQUIPMENT WITH ROOF STRUCTURE. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS & REQUIREMENTS.

**Building Code Compliant**  
REVIEW BY: **SAFEbuilt.**  
08/16/2021 DawnWoodard  
✓ Structural  
✓ Building  
✓ Mechanical  
✓ Electrical  
✓ Plumbing

PROF. OWNER: David Nichols Realty, Inc.  
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**DOWNTOWN DISPENSARY**  
221 E 6TH ST  
TUCSON, AZ 85705  
ROOF PLAN - HVAC

ROOF PLAN - HVAC  
1/8" = 1'-0" (1) (1)



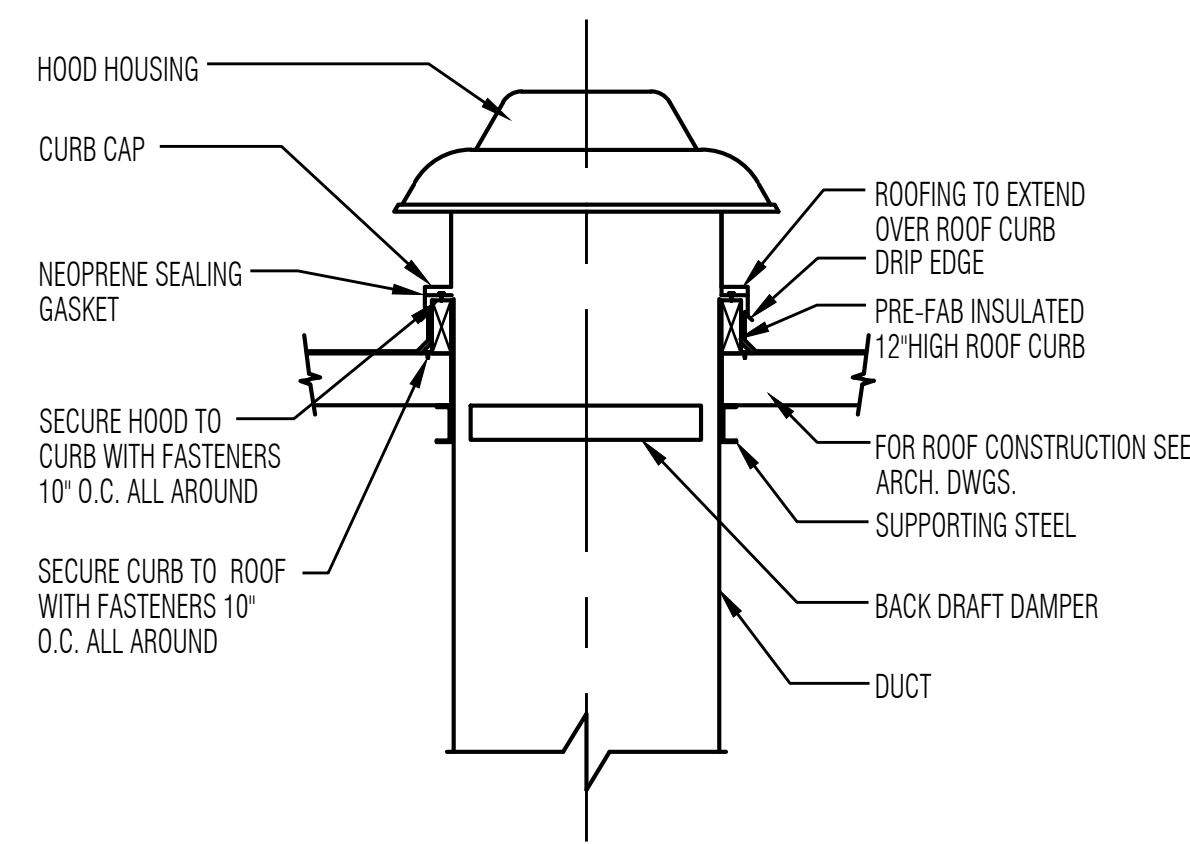
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**Building Code Compliant**

REVIEW BY:  
**SAFEbuilt.**

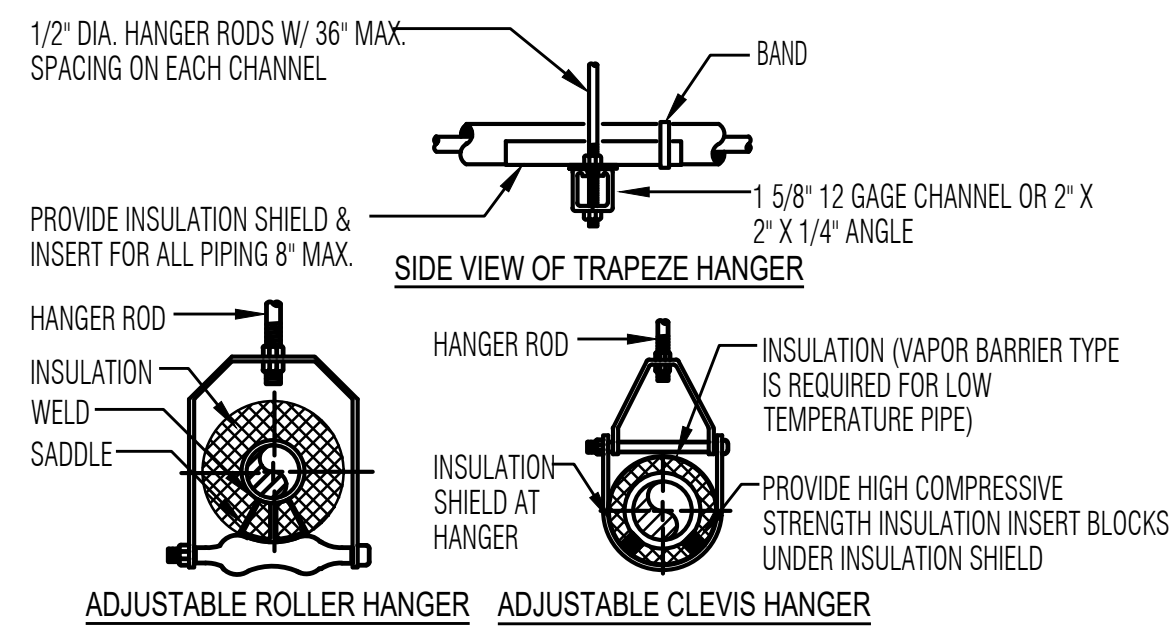
08/16/2021 Dawn Woodard

- ✓ Structural
- ✓ Building
- ✓ Mechanical
- ✓ Electrical
- ✓ Plumbing



**1 ROOF MOUNTED GRAVITY INTAKE/RELIEF HOOD DETAIL**

N.T.S. H-008A



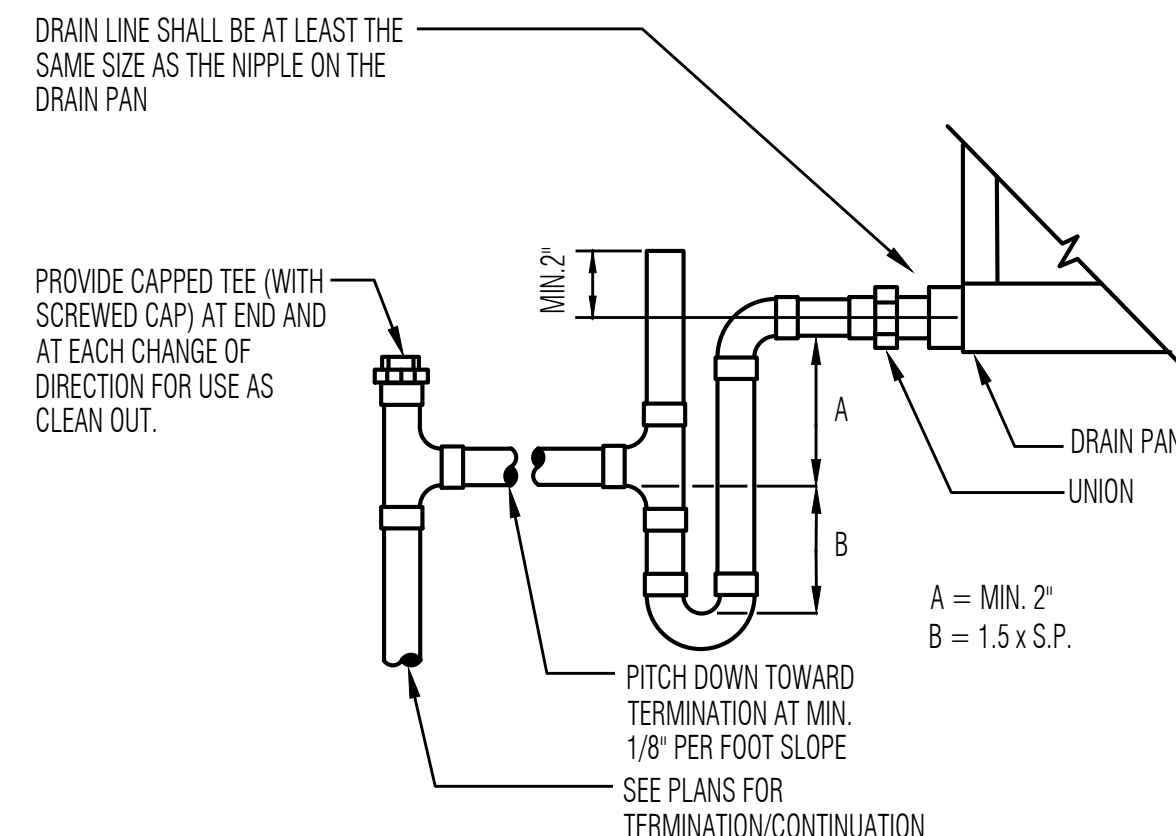
**MAX. PIPE/TUBING SUPPORT FEET**

NOM. SIZE	THRU 3/4"	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
PIPE	7 FT	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
TUBING	5 FT	6	7	8	8	9	10	12	13	14	16	--	--	--	--	--	--	--

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

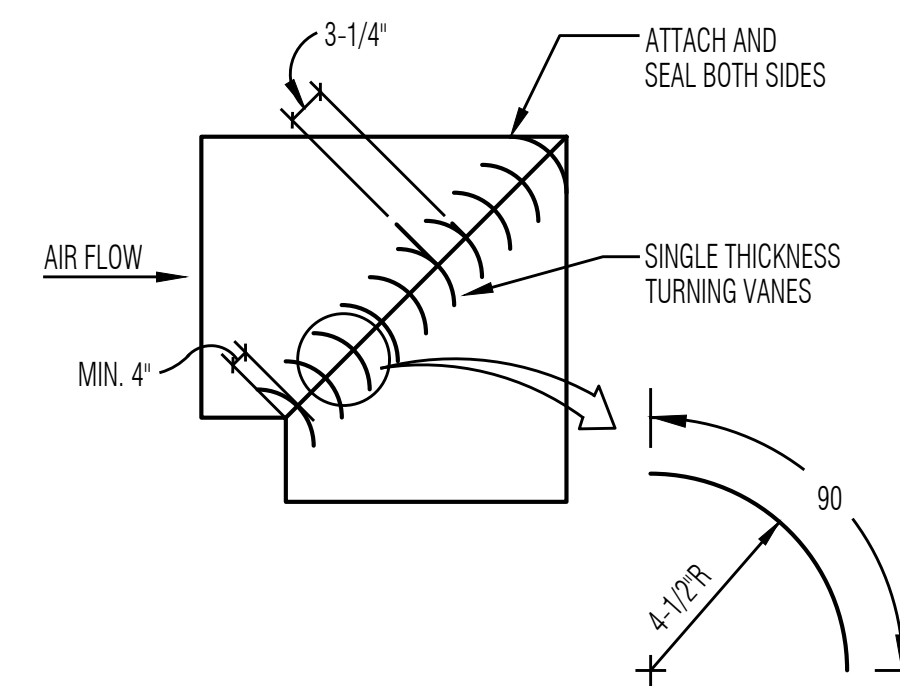
**2 TYPICAL PIPE HANGERS**

N.T.S. H-015



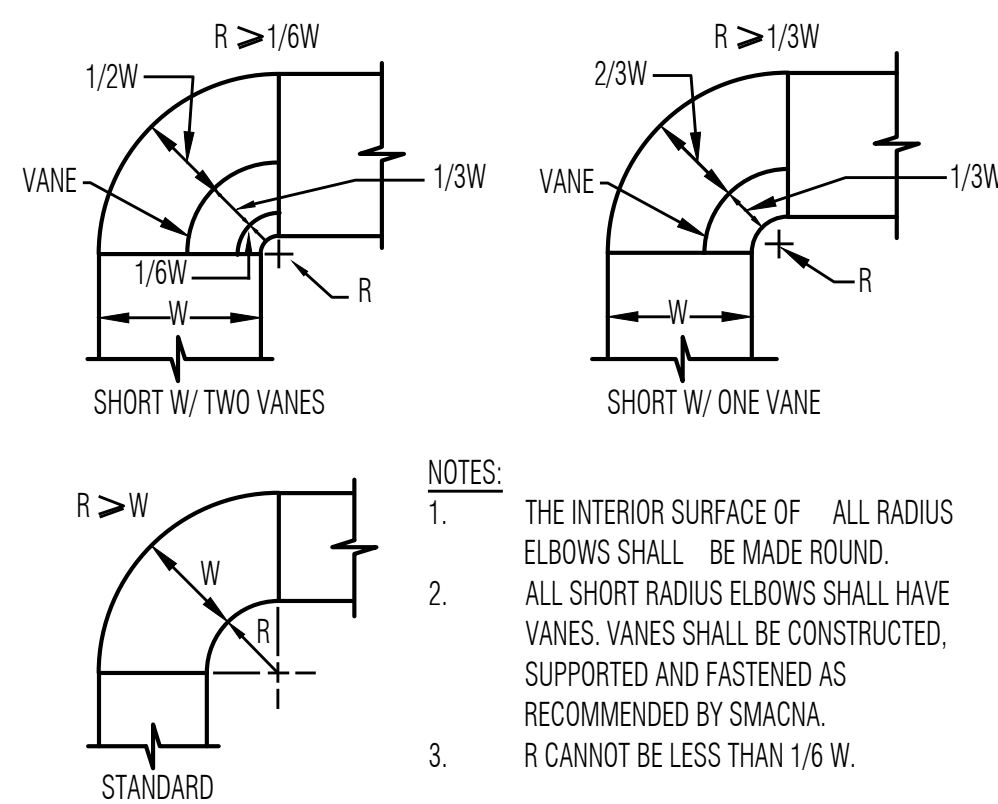
**3 CONDENSATE TRAP DRAIN**

N.T.S. H-004



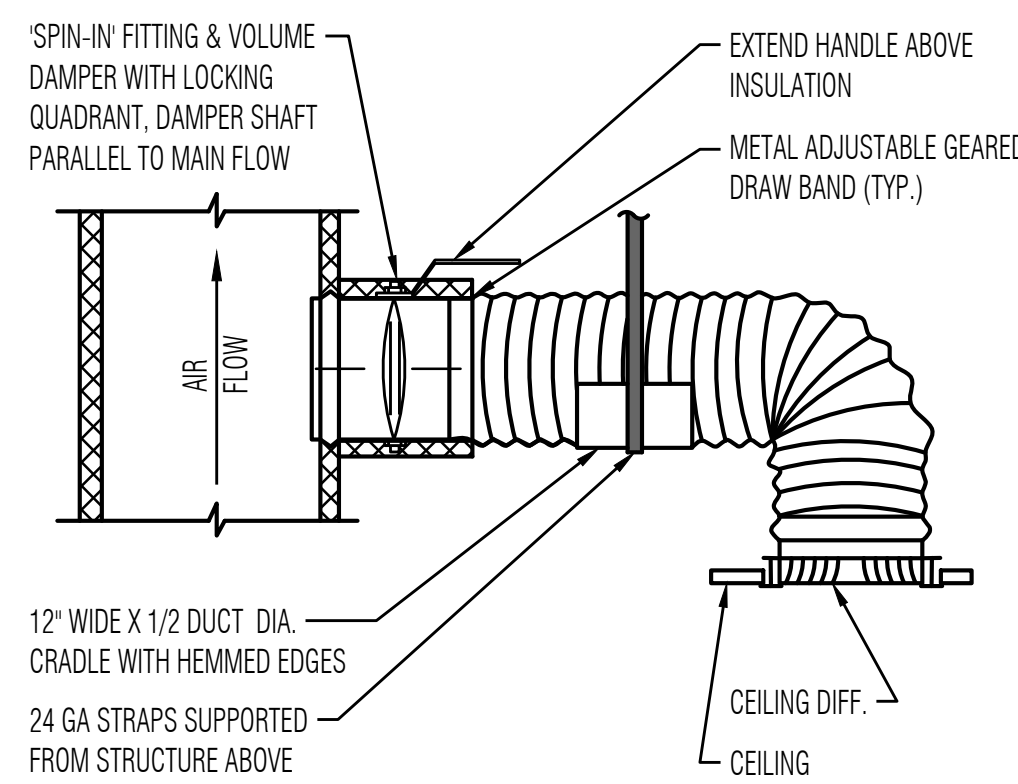
**4 MITER ELBOW W/ TURNING VANES**

N.T.S. H-008



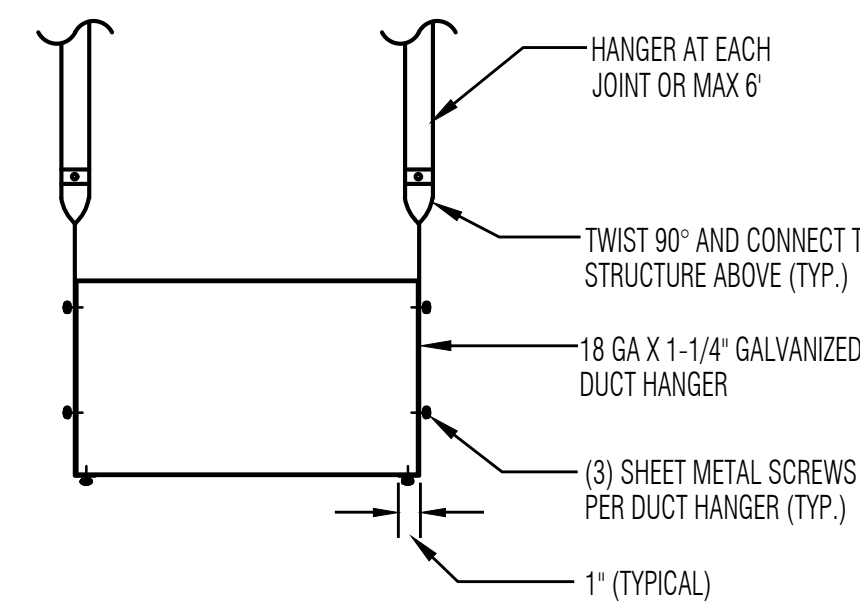
**5 RADIUS ELBOWS**

N.T.S. H-009



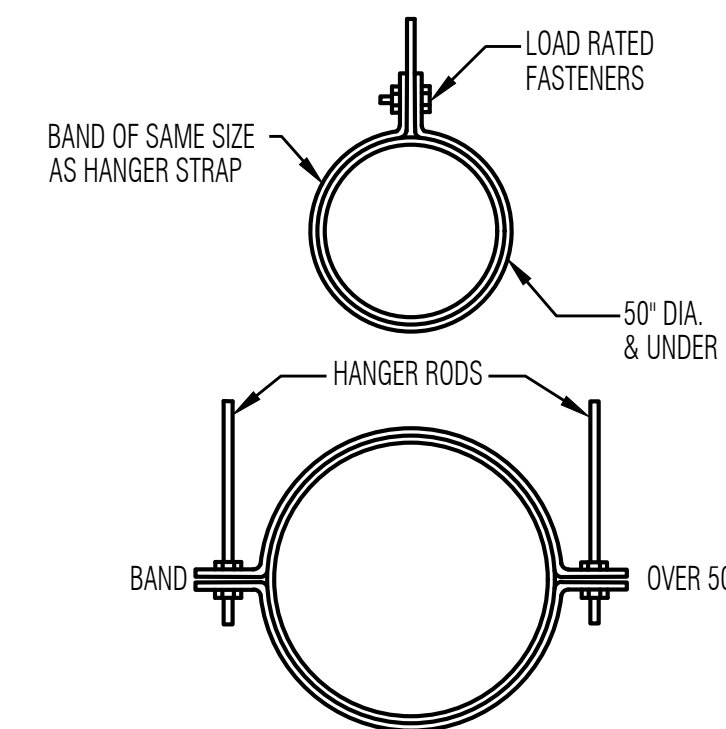
**6 FLEXIBLE DUCT TAKE-OFF**

N.T.S. H-040B



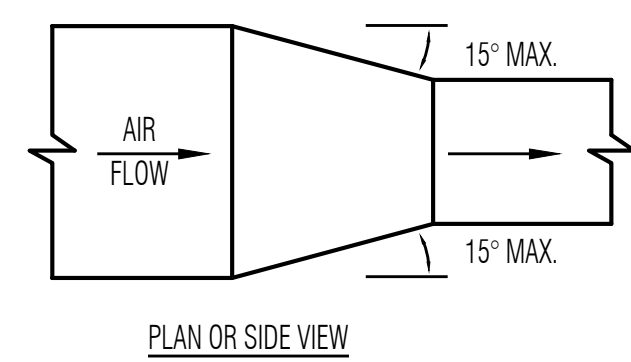
**7 DUCT HANGERS DETAIL**

N.T.S. H-002



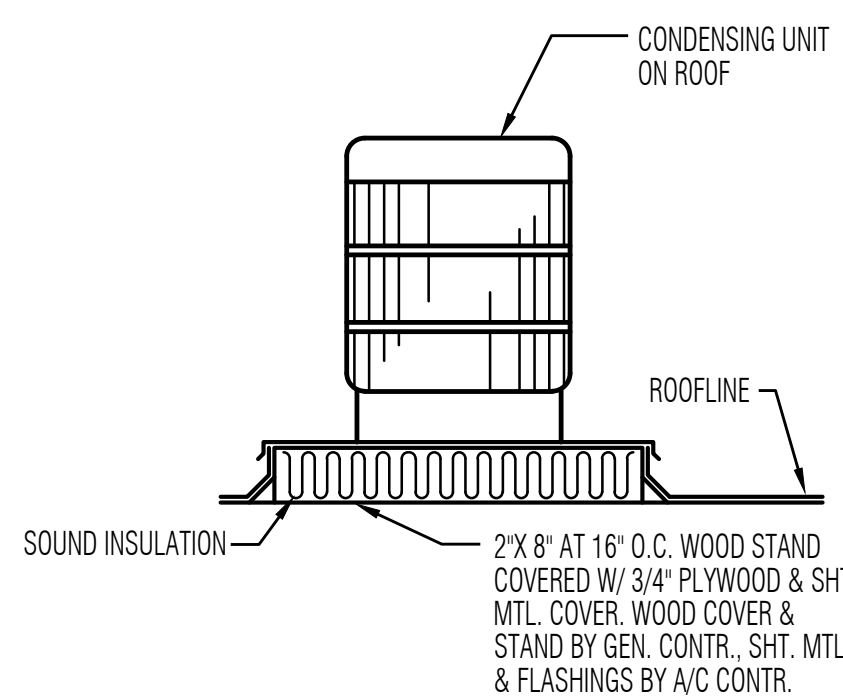
**8 ROUND DUCT HANGERS**

N.T.S. H-005



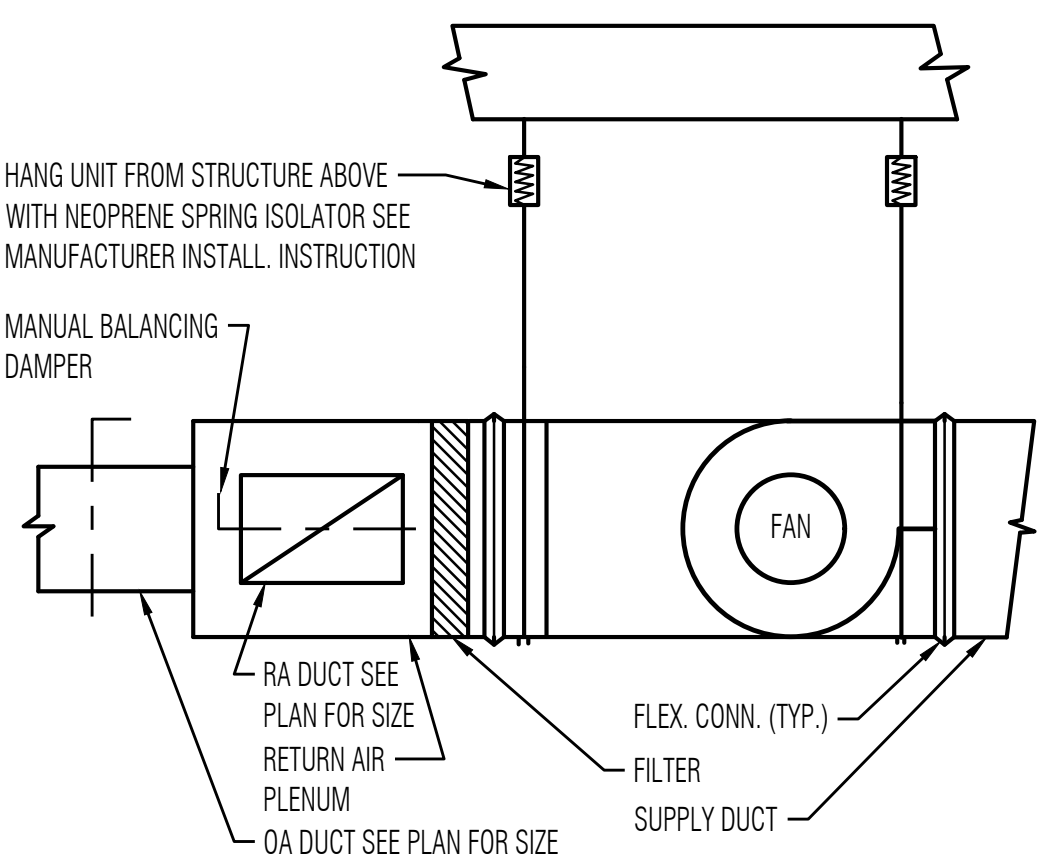
**9 DUCT TRANSITION**

N.T.S. H-007



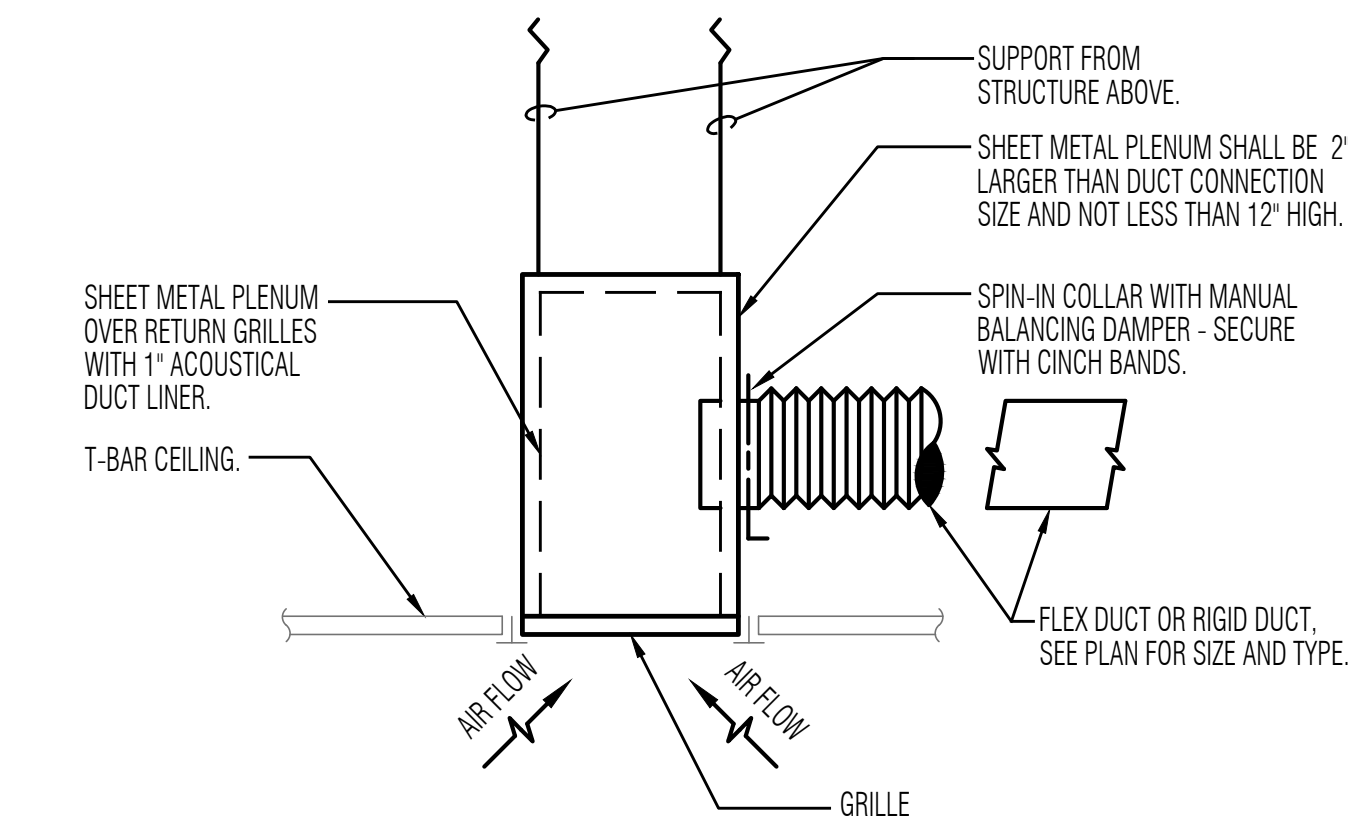
**10 C.U. PLATFORM DETAIL**

N.T.S. H-001



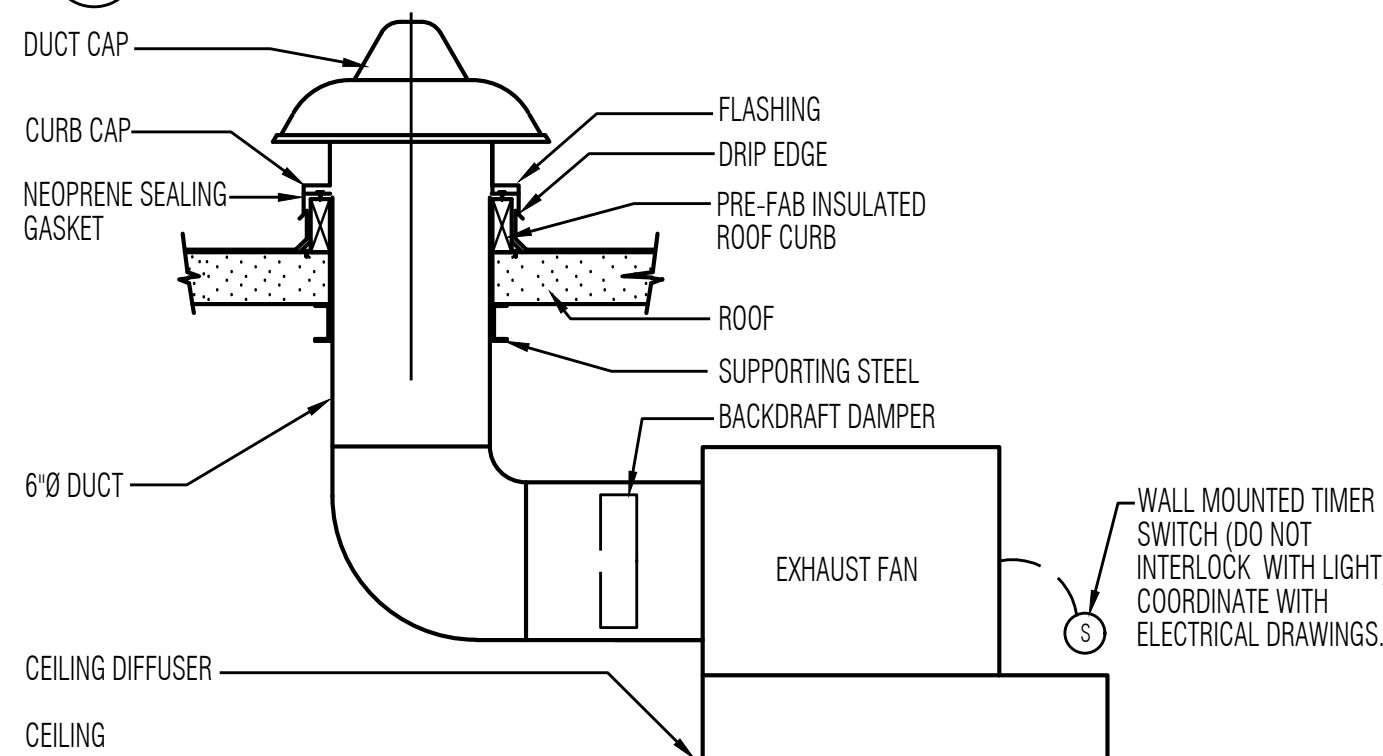
**11 HEAT PUMP SUPPORT DETAIL**

N.T.S. H-002



**12 TYP. RETURN/EXHAUST AIR DEVICE DETAIL**

N.T.S. H-130

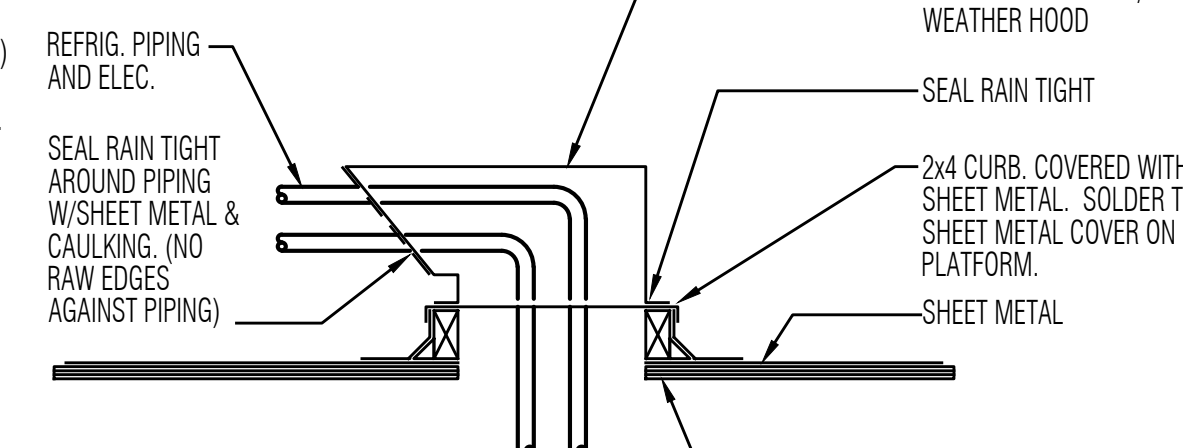


**EXHAUST FAN SEQUENCE OF OPERATION**

FAN TIMER SWITCH SHALL BE TURNED ON AND REMAIN ON DURING BUILDING OPERATING HOURS. EXHAUST FAN SHALL RUN CONSTANTLY DURING BUILDING OPERATING HOURS.

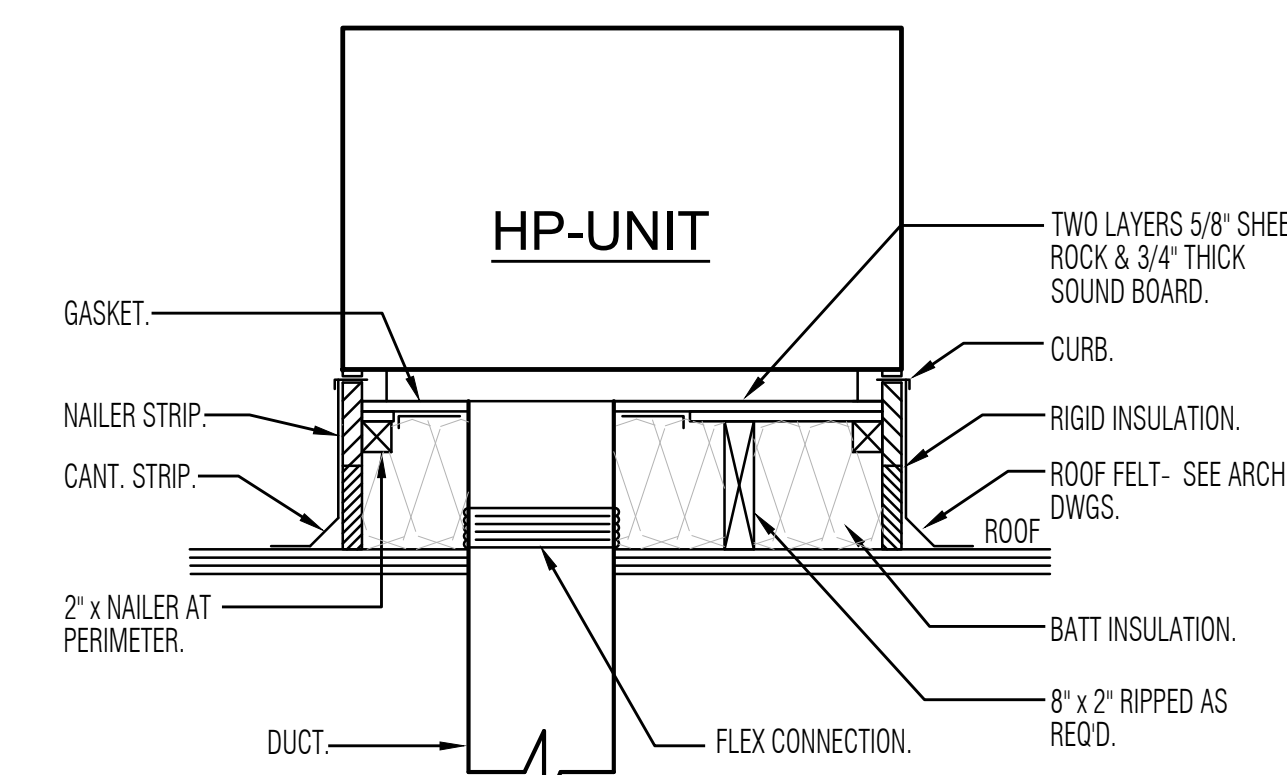
**13 CEILING MOUNTED EXHAUST FAN**

N.T.S. H-131



**14 PIPING WEATHER HOOD DETAIL**

N.T.S. H-164B



**15 ROOF TOP H/P UNIT**

N.T.S. H-169

**LEGEND**

CD	CEILING DIFFUSER	XY	EQUIPMENT SYMBOL
SG	SUPPLY GRILLE	XXX	EQUIPMENT NUMBER
<E>	EXISTING		DAMPER
<N>	NEW		BACKDRAFT DAMPER
<R>	RELOCATED		CHANGE OF DUCT SIZE
⊕	THERMOSTAT	~	FLEXIBLE DUCT
⊗	SUPPLY	~	FLEXIBLE DUCT
⊗	RETURN	CFM	CUBIC FEET PER MINUTE
⊗	EXHAUST	EAD	EXHAUST AIR DUCT
⊗	DIFFUSER TAG	MBD	MANUAL BALANCING DAMPER
X-X	THROW	OBD	OPPOSED BLADE DAMPER
XXX	CFM	OSA	OUTSIDE AIR
		RAD	RETURN AIR DUCT
		SAD	SUPPLY AIR DUCT
		TYP	TYPICAL



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E-mail: peg@peemecanical.com

**DOWNTOWN DISPENSARY**  
**221 E 6TH ST**  
**TUCSON, AZ 85705**  
**MECHANICAL DETAILS**





COMcheck Software Version 4.1.5.1

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC  
 Project Title: Downtown Dispensary  
 Location: Tucson, Arizona  
 Climate Zone: 2b  
 Project Type: Alteration

Construction Site: 221 E 6th St, Tucson, AZ 85705  
 Owner/Agent: FixCity, 345 S Cherry Ave, Tucson, AZ 85719  
 Designer/Contractor: Professional Engineering & Technology, 4500 E Speedway # 20, Tucson, AZ 85712, 520-881-1711, pet@petmechanical.com

Mechanical Systems List

Quantity System Type & Description

- 2 HVAC System 1 (Single Zone): Single Package Heat Pump, Heating Mode: Capacity = 57 kBtu/h, Proposed Efficiency = 8.00 HSPF, Required Efficiency = 8.00 HSPF, Cooling Mode: Capacity = 61 kBtu/h, Proposed Efficiency = 16.40 SEER, Required Efficiency = 15.40 SEER, Fan System: Unspecified
- 1 HVAC System 2 (Single Zone): Single Package Heat Pump, Heating Mode: Capacity = 32 kBtu/h, Proposed Efficiency = 8.80 HSPF, Required Efficiency = 8.00 HSPF, Cooling Mode: Capacity = 36 kBtu/h, Proposed Efficiency = 16.00 SEER, Required Efficiency = 14.00 SEER, Fan System: Unspecified
- 1 HVAC System 3 (Single Zone): Split System Heat Pump, Heating Mode: Capacity = 33 kBtu/h, Proposed Efficiency = 9.50 HSPF, Required Efficiency = 8.20 HSPF, Cooling Mode: Capacity = 37 kBtu/h, Proposed Efficiency = 17.50 SEER, Required Efficiency = 14.00 SEER, Fan System: Unspecified
- 1 Water Heater 1: Electric Storage Water Heater, Capacity: 40 gallons w/ Circulation Pump, Proposed Efficiency: 0.98 SL, %h (if > 12 kW), Required Efficiency: 0.98 SL, %h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Downtown Dispensary  
 Data filename: C:\Users\Maher\Documents\COMcheck\202105.cck  
 Report date: 07/02/21  
 Page 1 of 11

DIFFUSER, REGISTER, AND GRILLE SCHEDULE											
SYMBOL	SERVICE	NECK SIZE (IN.)	TYPE	DAMPER	LENGTH (IN.)	SLOT WIDTH (IN.)	NO. OF SLOTS	FINISH	MANUFACTURER	MODEL NO.	REMARKS
A	SUPPLY	6X6	PERF.	OBD	-	-	-	STANDARD	KRUEGER	6200	SURFACE MOUNT.
B	SUPPLY	8X8	PERF.	OBD	-	-	-	STANDARD	KRUEGER	6200	SURFACE MOUNT.
C	SUPPLY	10X10	PERF.	OBD	-	-	-	STANDARD	KRUEGER	6200	SURFACE MOUNT.
D	SUPPLY	-	DUCT MTD	OBD	-	-	-	STANDARD	KRUEGER	5880	-
E	SUPPLY	-	DUCT MTD	OBD	-	-	-	STANDARD	KRUEGER	5880	-
AA	RET./EXH.	24X24	CEILING	OBD	-	-	-	STANDARD	KRUEGER	S580 HSF	WITH FILTER FRAME FOR 2" CARBON FILTERS & HINGED GRILLE FACE
BB	RET./EXH.	24X24	CEILING	OBD	-	-	-	STANDARD	KRUEGER	EGC-5	SURFACE MOUNT.

EQUIPMENT SCHEDULES

- HP-1 & 2:  
 HEAT PUMP SHALL BE "TRANE" (OR APPROVED EQUAL) HIGH EFFICIENCY MODEL WHC060H3, DOWNFLOW, NOMINAL 5 TON UNIT, 2000 CFM, 61,000 BTUH TOTAL COOLING, 34,400 BTUH LOW 57,000 BTUH HIGH HEATING CAPACITY, MINIMUM SEER RATING OF 16.4, HSPF 9.00. PROVIDE PROGRAMMABLE THERMOSTAT WITH AUTOMATIC CHANGEOVER WITH DEAD BAND OF AT LEAST 5°F, SEVEN DAY TIME CLOCK AND NIGHT SET BACK. THERMOSTAT SHALL HAVE AUTOMATIC START CAPABILITIES IN ACCORDANCE WITH IECC 2018 SECTION C403.2.4.3.3, 2" THICK 30% FILTER, MANUAL OUTDOOR AIR DAMPER, COIL GUARD GRILLE, HINGED ACCESS DOORS, LOW AMBIENT AND EVAPORATOR DEFROST CONTROL, AND ALL SAFETY CONTROLS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE SINGLE SOURCE POWER CONNECTION, UNIT SHALL OPERATE AT 208 VOLT, THREE PHASE POWER, MCA 32.0, MAXIMUM OVERCURRENT DEVICE SHALL BE 45. PROVIDE UNIT COMPLETE WITH DOWNFLOW ROOF CURB. MAXIMUM UNIT WEIGHT = 800 LBS.
- HP-3:  
 HEAT PUMP SHALL BE "TRANE" (OR APPROVED EQUAL) HIGH EFFICIENCY MODEL WHC036H3, DOWNFLOW, NOMINAL 3 TON UNIT, 1200 CFM, 36,400 BTUH TOTAL COOLING, 21,400 BTUH LOW 32,200 BTUH HIGH HEATING CAPACITY, MINIMUM SEER RATING OF 16.0, HSPF 8.80. PROVIDE PROGRAMMABLE THERMOSTAT WITH AUTOMATIC CHANGEOVER WITH DEAD BAND OF AT LEAST 5°F, SEVEN DAY TIME CLOCK AND NIGHT SET BACK. THERMOSTAT SHALL HAVE AUTOMATIC START CAPABILITIES IN ACCORDANCE WITH IECC 2018 SECTION C403.2.4.3.3, 2" THICK 30% FILTER, MANUAL OUTDOOR AIR DAMPER, COIL GUARD GRILLE, HINGED ACCESS DOORS, LOW AMBIENT AND EVAPORATOR DEFROST CONTROL, AND ALL SAFETY CONTROLS PER MANUFACTURER'S INSTRUCTIONS. UNIT SHALL OPERATE AT 208 VOLT, THREE PHASE POWER, MCA = 23.0, MAXIMUM OVERCURRENT DEVICE SHALL BE 30. PROVIDE UNIT COMPLETE WITH DOWNFLOW ROOF CURB. MAXIMUM UNIT WEIGHT = 800 LBS.
- FC-1 AND CU-1:  
 THE HEAT PUMP SHALL BE "TRANE" (OR APPROVED EQUAL) HIGH EFFICIENCY SPLIT SYSTEM WITH OUTDOOR CONDENSING UNIT, MODEL 4TWA7036A3, NOMINAL 3 TON UNIT, INDOOR FAN COIL UNIT SHALL BE MODEL TEM6A0C36H31 1,200 CFM WITH 1/2 HP MOTOR. PROVIDE PROGRAMMABLE THERMOSTAT WITH AUTOMATIC CHANGEOVER WITH DEAD BAND OF AT LEAST 5°F, SEVEN DAY TIME CLOCK AND NIGHT SET BACK. THERMOSTAT SHALL HAVE AUTOMATIC START CAPABILITIES IN ACCORDANCE WITH IECC 2018 SECTION C403.2.4.3.3, 2" THICK 30% FILTER, RETURN AIR PLENUM AND ALL SAFETY CONTROLS PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LOW AMBIENT AND EVAPORATOR DEFROST CONTROL, OUTDOOR CONDENSING UNIT SHALL OPERATE WITH 208 VOLT, THREE PHASE POWER, MCA 15.0, MOPC=25. INDOOR FAN COIL UNIT SHALL OPERATE WITH 200/230 VOLT SINGLE PHASE POWER, MCA=5.0, MOPC=15.0, MINIMUM SYSTEM SEER OF 17.5, HSPF=9.5. PROVIDE AUXILIARY CONDENSATE OVERFLOW CONTROL SAFETY SWITCH. MAXIMUM OUTDOOR UNIT WEIGHT=300 LBS. MAXIMUM INDOOR UNIT =200 LBS. PROVIDE OUTDOOR CONDENSING UNIT WITH METAL GUARDS FOR COIL PROTECTION.
- EXHAUST FANS:  
 EF-1 & 2:  
 EXHAUST FAN SHALL BE "GREENHECK" (OR APPROVED EQUAL) MODEL SP-A290, 250 CFM AT 250" OF STATIC PRESSURE, 3.0 SONES, 81 WATTS, 115 VOLT SINGLE PHASE. PROVIDE FACE GRILLE, ROOF WEATHER HOOD AND BACK DRAFT DAMPER, PROVIDE ACOUSTICALLY INSULATED HOUSING AND VIBRATION ISOLATOR KIT. EXTEND EXHAUST DUCT TO THE ROOF HOOD/CAP.
- EF-3:  
 EXHAUST FAN SHALL BE "GREENHECK" (OR APPROVED EQUAL) MODEL SP-A125, 100 CFM AT 250" OF STATIC PRESSURE, 0.6 SONES, 18 WATTS, 115 VOLT SINGLE PHASE. PROVIDE FACE GRILLE, ROOF WEATHER HOOD AND BACK DRAFT DAMPER, PROVIDE ACOUSTICALLY INSULATED HOUSING AND VIBRATION ISOLATOR KIT. EXTEND EXHAUST DUCT TO THE ROOF HOOD/CAP.
- INTAKE HOODS:  
 IH-1:  
 ROOF MOUNTED OUTSIDE AIR HOOD SHALL BE "GREENHECK" (OR APPROVED EQUAL) MODEL GRS-12, 12X12 THROAT SIZE, 200 CFM AT .05" OF STATIC PRESSURE. PROVIDE COMPLETE WITH PREFABRICATED ROOF CURB.
- AUXILIARY CONDENSATE OVERFLOW CONTROL SAFETY SWITCH:  
 PROVIDE AUXILIARY CONDENSATE OVERFLOW SAFETY SWITCH, (LITTLE GIANT #ACS-4, OR EQUAL) INSTALL AND WIRE TO INTERRUPT THE THERMOSTAT CIRCUIT TO SHUT-OFF THE UNIT UPON DETECTION OF CLOGGED CONDENSATE DRAIN. INSTALL IN AUXILIARY DRAIN PAN OUTLET.

CARBON FILTER

24" x 24" x 2" CARBON FILTERS FOR ODOR CONTROL EQUAL TO AAF/FLANDERS MODEL #AMAIRCW DISPOSABLE CARBON PLEATED FILTER OR CAMFIL MODEL #CAMSORB RS80D DISPOSABLE PANELS.

HVAC SYSTEM CONTROLS

CONTRACTOR TO SET RTU-1, 2 & 3 (SERVING DISPENSING AREA) OPERATION TO "ON" SO IT RUNS 24/7. THERMOSTATS SHALL BE SET TO "AUTO" SO IT CAN AUTOMATICALLY SWITCH FROM COOLING TO HEATING BASED ON SPACE TEMPERATURE SET POINT.

MECHANICAL SPECIFICATIONS

- THE FOLLOWING NOTES ARE FOR ALL THE MECHANICAL DRAWINGS.
- THE DETAILS SHOWN ON THESE DOCUMENTS ARE TYPICAL. ALL DUCT, PIPE AND EQUIPMENT CONNECTIONS AND/OR ASSEMBLIES SHALL BE PER THE SPECIFIED DETAIL. TYPICAL DETAILS INDICATE MINIMUM REQUIREMENTS. WHERE CODE AND/OR MANUFACTURER'S REQUIREMENTS ARE MORE STRINGENT, THOSE REQUIREMENTS SHALL APPLY. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF THE PLUMBING FIXTURES.
  - REFER TO ARCHITECTURAL DRAWINGS (REFLECTED CEILING PLAN) FOR EXACT LOCATION OF THE DIFFUSERS AND GRILLES.
  - ALL WORK SHALL COMPLY WITH CONSTRUCTION DOCUMENTS, LATEST ADOPTED INTERNATIONAL, NATIONAL AND LOCAL MECHANICAL CODES (IMC 2018). IN CASE OF DIFFERENCE, MOST STRINGENT SHALL GOVERN.
  - DUCT SIZES SHOWN ON DRAWING ARE CLEAR INSIDE DIMENSIONS. SHEET METAL DUCTWORK GAUGES, FABRICATION, AND INSTALLATION SHALL BE ACCORDING TO THE LATEST SMACNA DUCT CONSTRUCTION MANUAL. DUCTWORK BELOW THE ROOF SHALL BE HUNG WITH 20 GAUGE, 1-1/8" STRAP HANGERS FASTENED TO THE STRUCTURE ABOVE.
  - ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, LIQUID SEALANTS OR TAPES. ALL DUCT, AIR HANDLERS AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION 603.9 OF THE 2018 IMC.
  - PROVIDE DUCT HANGER AT EACH JOINT AND/OR MAXIMUM 4' ON CENTER.
  - SUPPORT ALL DUCTWORK, PIPING, AND OTHER MECHANICAL EQUIPMENT FROM THE STRUCTURE.
  - LOCATE ALL SUPPLY/RETURN DUCTWORK, MECHANICAL EQUIPMENT AS CLOSE AS POSSIBLE TO THE UNDERSIDE OF THE STRUCTURE.
  - FLEX DUCT SHALL BE "ATCO SERIES 30" WITH MINIMUM R-6. INSTALL FLEX DUCT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS WITHOUT ANY TURNS AND PER CONTRACT DOCUMENTS. MAXIMUM ALLOWABLE LENGTH SHALL NOT EXCEED 6'. HANG FLEX DUCT FROM THE STRUCTURE USING 20 GAUGE, 1-1/8" STRAP AND SADDLE.
  - THE HVAC SYSTEM SHALL BE TESTED AND BALANCED BY AN INDEPENDENT AGENCY (AABC OR NEBB) CERTIFIED AND RETAINED BY THE CONTRACTOR. TESTING AND BALANCING SHALL BE PER OWNER'S DIRECTION AFTER THE BUILDING IS OCCUPIED. SUBMIT TEST DATA ON PRINTED REPORT FORMS PUBLISHED BY EITHER AABC OR NEBB. FINAL REPORTS SHALL BE PROVIDED TO THE ENGINEER OF RECORD AND THE CODE OFFICIAL PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
  - ALL REFRIGERANT PIPING SHALL BE SIZED, INSTALLED AND INSULATED PER MANUFACTURER'S INSTALLATION INSTRUCTION.
  - PROVIDE FLASHING FOR REFRIGERANT PIPING PENETRATION THROUGH THE ROOF OR WALL.
  - FIELD VERIFY THE EXISTING CONDITIONS OF DUCTWORK, ROOF MOUNTED EQUIPMENT, PIPING, PLUMBING PIPES, AND ROOF PENETRATIONS BEFORE SUBMISSION OF BID. PROVIDE ALL REQUIRED ITEMS FOR A COMPLETE INSTALLATION AND OPERATION OF HVAC EQUIPMENT.
  - PROVIDE FLEX CONNECTION AT SUPPLY AND RETURN CONNECTION TO THE UNITS.
  - INSTALL SUPPLY AND RETURN DUCTWORK BETWEEN THE JOISTS WHEN REQUIRED BY THE STRUCTURAL CONDITIONS.
  - HANG FAN COIL UNIT FROM THE STRUCTURE AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION WITH CEILING ACCESS PANEL.
  - INSULATE SUPPLY AND RETURN DUCTWORK INSIDE BUILDING WITH 2" FOIL FACED FIBERGLASS INSULATION WITH MINIMUM R-6.
  - FILTERS SHALL BE "FARR" 2" 30/30 AT MAXIMUM 350 FEET PER MINUTE FACE VELOCITY.
  - PROVIDE "MASON" SINGLE SPRING MOUNT VIBRATION CONTROL WITH MINIMUM 1" DEFLECTION FOR MECHANICAL EQUIPMENT. COORDINATE WITH MANUFACTURER FOR PROPER WEIGHT RATINGS.
  - INSTALL ROOF MOUNTED EQUIPMENT ON ROOF CURBS OR EQUIPMENT PLATFORMS.
  - SUBMIT SIX (6) COPIES OF SHOP DRAWINGS OR LITERATURE FOR THE PACKAGE ROOF TOP HEAT PUMPS, SPLIT SYSTEM HEAT PUMP, CARBON FILTERS, INTAKE HOODS, EXHAUST FANS AND AIR DEVICES.
  - SUBMIT THREE (3) SETS OF OPERATION, MAINTENANCE AND WARRANTY LITERATURE FOR THE PACKAGE ROOF TOP HEAT PUMPS, SPLIT SYSTEM HEAT PUMP, CARBON FILTERS, INTAKE HOODS, EXHAUST FANS AND AIR DEVICES.
  - CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY FOR ALL PARTS AND LABOR.

NOTE

EVERY EFFORT HAS BEEN MADE TO PROVIDE AN ACCURATE EXISTING CONDITION. CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS PRIOR TO THE SUBMISSION OF THE BID. THE NEW SYSTEM SHALL BE INSTALLED AND OPERATIONAL. ALL INCIDENTAL REQUIREMENTS TO COMPLETE THE WORK SHALL BE INCLUDED IN THE CONTRACTORS BID WITHOUT ANY ADDITIONAL COST TO THE OWNER. THE SUBMISSION OF THE BID SHALL BE AN INDICATION THAT THE CONTRACTOR HAS COMPLETE UNDERSTANDING OF THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS. CONTRACTOR SHALL REPAIR ALL DAMAGES TO THE EXISTING MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC., DUE TO THE DEMOLITION AND INSTALLATION OF NEW WORK.

Building Code Compliant

REVIEW BY:  
**SAFEbuilt.**  
 08/16/2021 Dawn Woodard  
 ✓ Structural  
 ✓ Building  
 ✓ Mechanical  
 ✓ Electrical  
 ✓ Plumbing

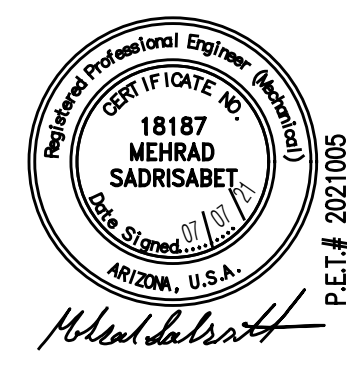
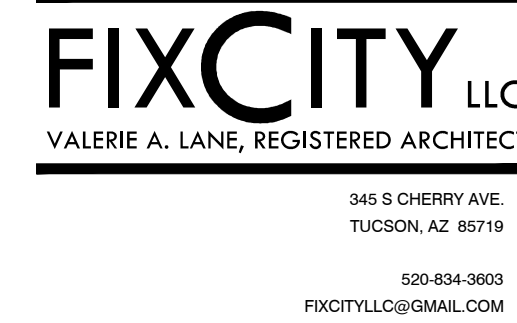
IMC 2018 MINIMUM VENTILATION REQUIREMENTS

UNIT #	AREA SERVED	AREA (sf)	OCCUPANT DENSITY #/1,000 sf	PEOPLE OUTDOOR AIR FLOW RATE CFM/PERSON	AREA OUTDOOR AIR FLOW RATE CFM/sf	EXHAUST AIR FLOW RATE CFM/sf	CODE MINIMUM OSA			ZONE AIR DISTRIBUTION EFFECTIVENESS (EV)	TOTAL CODE MINIMUM OSA (CFM)	DESIGN SUPPLY CFM	DESIGN RETURN CFM	DESIGN OSA CFM	MINIMUM EXHAUST CFM	DESIGN EXHAUST CFM	REMARKS
							PEOPLE OSA (CFM)	AREA OSA (CFM)	TOTAL (CFM)								
HP-1 AND 2	113 SALES FLOOR	2565	15	7.5	0.12	-	289	308	596	1.0	596						
	124 STORAGE	675	0	0	0.12	-	0	81	81	1.0	81						
TOTAL HP-1 AND 2											677	4000	3300	700			
HP-3	114 FULFILLMENT	310	5	5	0.06	-	8	19	26	1.0	26				98	100	EF-3
	116 UTILITY CLOSET/MOP SINK	98	0	0	0.12	1	0	12	12	1.0	12						
	117 MEN'S RR	208	0	0	0	70/W.C.	0	0	0	1.0	0			210	250	EF-1	
	118 WOMEN'S RR	213	0	0	0	70/W.C.	0	0	0	1.0	0			210	250	EF-2	
	119 STORAGE	18	0	0	0.12	-	0	2	2	1.0	2						
	127 HALLWAY	388	0	0	0.06	-	0	23	23	1.0	23						
TOTAL HP-3											64	1200	1050	150			
FC-1	115 BREAKROOM	851	5	5	0.06	-	21	51	72	1.0	72						
	115A STORAGE	315	0	0	0.12	-	0	38	38	1.0	38						
TOTAL FC-1											110	1200	1050	150			

DOWNTOWN DISPENSARY

221 E 6TH ST  
 TUCSON, AZ 85705

MECHANICAL SCHEDULES



PROF. OWNER: David Nichols Realty, Inc.  
 ARCHITECT: FixCity, LLC  
 MECHANICAL: FET Mechanical Engineering  
 ELECTRICAL: Electrical Design Associates  
 STRUCTURAL: Turner Structural  
 TENANT: Downtown Dispensary



## ELECTRICAL NOTES

- COMPLY WITH OR EXCEED THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES. OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS AND ASSOCIATED FEES.
- COMPLY WITH ARIZONA REVISED STATUTES TITLE 44, CHAPTER 9, AS AMENDED BY ARTICLE 19.
- VERIFY CEILING SYSTEM COMPATIBILITY WITH LIGHTING FIXTURES BEFORE RELEASING FIXTURE ORDER.
- FLUSHMOUNT WIRING DEVICES, SWITCHES, RECEPTACLES, ETC., U.N.O.
- COVER PLATES SHALL BE STAINLESS STEEL.
- ILLUMINATED EXIT SIGNS SHALL HAVE AN INPUT POWER DEMAND OF FIVE WATTS OR LESS PER ILLUMINATED FACE AND SHALL EITHER HAVE A POWER FACTOR OF AT LEAST 0.70 OR MEET THE POWER FACTOR PRODUCT SPECIFICATION OF THE ENERGY STAR PROGRAM REQUIREMENTS, WHICHEVER IS HIGHER.
- COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY EQUIPMENT CONNECTIONS, AND FOR COMPLETE INSTALLATION AND CONNECTION.
- INSTALL A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURE THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
- COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ON PLANS WITH THE OWNER, ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS.
- A) FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THIS DRAWING.  
B) MAXIMUM LOAD PER 20A/1P CIRCUIT: 1920 WATTS (120V); 4400 WATTS (277V).  
C) VOLTAGE DROP SHALL BE LIMITED TO 3% ON ALL BRANCH CIRCUITS.
- A) INSTALL CONDUIT WITH SIZES AS INDICATED OR REQUIRED RIGIDLY SECURED IN PLACE WITH NOT LESS THAN ONE MALLEABLE, CORROSION PROOF, ALLOY STRAP OR HANGER PER EIGHT FEET OF CONDUIT. PERFORATED STRAPPING IS NOT ACCEPTABLE.  
B) SUPPORT CONDUITS FROM STRUCTURAL SLABS, WALLS, STRUCTURAL MEMBERS AND ROOF JOISTS. DO NOT SUPPORT CONDUITS FROM CEILING TIE WIRES, DUCTWORK, PIPING OR OTHER NONSTRUCTURAL MEMBERS.
- A) INDEPENDENTLY AND SECURELY MOUNT WALL AND CEILING FIXTURES SO THAT THEY ARE NOT DEPENDENT ON CEILING FINISH FOR SUPPORT AND CANNOT BE ROTATED OR DISPLACED.  
B) FIXTURES AND DEVICES MOUNTED IN SUSPENDED ACOUSTICAL TILE SHALL HAVE CHANNEL SUPPORTS ACROSS THE MAIN GRID RUNNERS OR GRID SUPPORTS, SECURELY TIED DOWN OR ANCHORED SO AS NOT TO CAUSE TILE TO SAG AND SO THAT FIXTURE OR DEVICE CANNOT BE LIFTED, ROTATED OR DISPLACED. MINIMUM SUPPORTS SHALL INCLUDE 2 CHAINS AT DIAGONALLY OPPOSITE CORNERS.  
C) PROVIDE AND INSTALL GRID TROFFER SUPPORT CLIPS.
- PANELBOARDS: COPPER BUS  
A) PROVIDE BREAKERS BOLTED IN PLACE. BREAKERS TO HAVE MINIMUM 10,000 AIC RATING. MULTI-POLE BREAKERS WITH COMMON TRIP SHALL BE FURNISHED WITH 4 BREAKER LOCK-ONE FOR EACH BRANCH CIRCUIT PANELBOARD.  
B) BALANCE PANEL FEEDERS WITHIN 5% UNDER FULL LOAD CONDITIONS.  
C) VERIFY ELECTRICAL REQUIREMENTS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING BREAKERS FOR PANELBOARDS.  
D) PROPERLY FILL IN CIRCUIT DIRECTIONS WITH A TYPEWRITER AT THE COMPLETION OF THE JOB, WITH DESIGNATIONS AS DETERMINED BY ARCHITECT.
- MOUNT OUTLET BOXES FLUSH AND CONCEAL CONDUIT U.N.O. ROUTING AND METHODS USED TO ACHIEVE CONCEALED AND FLUSH EQUIPMENT INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH OTHER AFFECTED TRADES. SEE SPECIFICATIONS FOR CUTTING AND PATCHING.
- REMODELING, MODIFYING, PATCHING AND REPAIR OF EXISTING BUILDING COMPONENTS SHALL BE DONE AS REQUIRED TO PRODUCE FINISHED WORK EQUAL TO THE NEW WORK AS SPECIFIED AND DETAILED CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE TRADE WHOSE WORK RESULTS IN THE NEED FOR CUTTING AND PATCHING, UNLESS A SPECIFIED CONTRACTOR IS CALLED OUT ON THE DRAWINGS. COMPLETE WORK NECESSARY TO ACHIEVE THIS REQUIREMENT, EVEN THOUGH PROCEDURES ARE NOT DETAILED AND/OR SPECIFIED FOR EACH SPECIFIC CONDITION OR COMBINATION OF CONDITIONS. QUALITY OF WORKMANSHIP, MATERIALS AND FINISH SHALL BE EQUAL TO THE LEVEL ESTABLISHED FOR SIMILAR NEW WORK, EXCEPT WHERE EXISTING APPEARANCE IS TO BE MATCHED TO PROVIDE CONTINUITY.
- DEFINITIONS: FURNISH – OBTAIN, PAY FOR AND DELIVER TO THE WORK SITE.  
INSTALL – TRANSPORT, CONNECT, TEST AND PLACE IN OPERATION.  
PROVIDE – FURNISH AND INSTALL.  
INDICATED – PORTRAYED BY PRINTED OR GRAPHIC MEANS.
- PROVIDE PULL STRING IN ALL SPARE/EMPTY CONDUITS (TYPICAL).

## ELECTRICAL NOTES

- THE SCOPE OF THE WORK COVERED BY THESE SPECIFICATIONS INCLUDES LABOR, EQUIPMENT, AND MATERIALS FOR THE COMPLETE ELECTRICAL SYSTEM. MATERIALS AND EQUIPMENT ARE NEW, OF MANUFACTURER'S STANDARD CONSTRUCTION, INSTALLED IN ACCORDANCE WITH ACCEPTED PRACTICE. RESPONSIBILITY CONTINUES FOR CORRECTION OF DEFECTIVE MATERIAL AND WORK DISCLOSED DURING THE GUARANTEE PERIOD OR THE FIRST OPERATING SEASON. THE DRAWINGS AND SPECIFICATIONS ARE COOPERATIVE AND SUPPLEMENTARY, AND IT IS THE INTENT OF BOTH DRAWINGS AND SPECIFICATIONS TO COVER THE ELECTRICAL REQUIREMENTS AS NEARLY AS POSSIBLE. CLOSELY CHECK THE DRAWINGS AND SPECIFICATIONS FOR ANY OBVIOUS CONFLICTS, ERRORS OR OMISSION AND NOTIFY THE ENGINEER OF ANY PRIOR TO THE RECEIPT OF BIDS. PROPERLY ADJUST THE VARIOUS ELECTRICAL DEVICES, BALANCE PHASES, MAKE THE REQUIRED TESTS, ETC., UNTIL THE ENTIRE ELECTRICAL INSTALLATION FUNCTIONS PROPERLY IN EVERY DETAIL.
- RACEWAYS – PROVIDE CONDUIT OF TYPES AND SIZES INDICATED WITH FITTINGS AND ACCESSORIES FOR A COMPLETE SYSTEM. USE 3/4" TRADE SIZE MIN. AND SECURITY SUPPORT USING BOLTED CLAMP TYPE HANGERS, LIKE MINERALLAC OR CHANNEL TYPE LIKE B-LINE.  
GALVANIZED RIGID STEEL CONDUIT – FOR: PANEL FEEDERS, WET LOCATIONS, WHERE SUBJECT TO ABUSE, WHERE 2-1/2" TRADE SIZE OR LARGER IS INDICATED.
- ELECTRICAL METALLIC TUBING (EMT) – FOR PROTECTED, DRY LOCATIONS, BRANCH CIRCUITS AND COMMUNICATION RACEWAY UP TO 2" TRADE SIZE. USE STEEL BODY COMPRESSION TYPE COUPLINGS AND CONNECTORS (DIE CAST IS NOT ACCEPTABLE) NON-METALLIC CONDUIT (SCHEDULE 40 PVC) – BELOW GRADE, EXTERIOR OF BUILDING ONLY.
- WIRE AND CABLE – PROVIDE COPPER CONDUCTOR OF INDICATED TYPE/SIZE. RUN ALL WIRE IN CONDUIT, U.N.O. USE 2 #12, #12 GRD. MIN. MC CABLE MAY BE USED WHEN IN COMPLIANCE WITH NEC.  
TYPE THHN/THWN FOR #6 AWG AND SMALLER EXCEPT FOR WIRE BELOW GRADE. TYPE XHHW FOR LARGER THAN #6 AWG AND FOR ALL WIRE BELOW GRADE.
- BOXES AND FITTINGS – PROVIDE BOXES AND FITTINGS OF APPROPRIATE TYPE FOR EACH APPLICATION. USE: APPLETON, O.Z./GEDNEY, HUBBELL.  
EXTERIOR (WEATHERPROOF) BOXES – CAST METAL, CORROSION RESISTANT, THREADED CONDUIT ENTRY, WITH MATING COVERS AND GASKETS. FOR EXTERIOR USE HUBBELL #5221 FIBERGLASS/PLASTIC COVER FOR DUPLEX RECEPTACLE.  
INTERIOR BOXES SHALL BE 4" MIN. SQUARE FITTED WITH SQUARE CUT DEVICE RING OR SINGLE PIECE MASONARY TYPE, NON-GANGABLE AND SET FLUSH WITH FINISHED SURFACE.  
JUNCTION AND PULL BOXES – PROVIDE CODE-GAGE, GALVANIZED SHEET STEEL APPROPRIATE FOR EACH APPLICATION. CONSTRUCT WITH WELDED SEAMS AND SCREW COVERS ATTACHED WITH STAINLESS STEEL FASTENERS.
- WIRING DEVICES – PROVIDE WHERE INDICATED WHITE WIRING DEVICES OF CONFIGURATION RATING AND TYPE. USE: G.E., LEVITON OR HUBBELL.  
DUPLEX RECEPTACLE – U.L. LISTED AS FED SPEC COMPLIANT, 3-WIRE, 2-POLE WITH GROUND, WITH METAL PLASTER EARS; SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE TERMINALS. BACK AND SIDE WIRED WITH GROUND TERMINAL BONDED TO MOUNTING YOKE.
- GROUND FAULT CIRCUIT INTERRUPTER (GFCI) – 20 AMP GFI, 120 VOLT, SOLID STATE, 5 MILLIAMPER TRIP LEVEL, HUBBELL #GF5262 OR EQUAL.
- MOTOR AND CIRCUIT DISCONNECTS – PROVIDE PROPER HP, VOLTAGE AND CURRENT RATING & NEMA TYPE DISCONNECT. FURNISH WITH OVERCURRENT PROTECTION AND OTHER ACCESSORIES AS INDICATED. USE NEMA 3R ENCLOSURE IN WET LOCATIONS. USE: SQUARE D OR G.E..  
SWITCH TYPE – HEAVY DUTY, SHEET STEEL ENCLOSED, 2, 3 OR 4 POLE, QUICK-BREAK, VISIBLE BLADE, INTERLOCKED DOOR, PAD LOCK LOCKOUT PROVISION HIGH CONDUCTIVITY COPPER CURRENT CARRYING PARTS, SILVER TUNGSTEN CONTACTS, POSITIVE PRESSURE/SPRING ASSISTED FUSE CLIPS (FUSED TYPES).
- FUSES – PROVIDE PROPER SELECTION OF FUSE(S) FOR EACH APPLICATION INDICATED AND WITH RESPECT TO VOLTAGE, CURRENT LIMIT, TIME/CURRENT CHARACTERISTICS, AND AVAILABLE FAULT CURRENT. FURNISH PRODUCTS OF ONE OF THE FOLLOWING BUSSMAN, GOULD OR LITTELFUSE.  
UL CLASS RK1 – 250 OR 600 VOLT RATING, 0-600 AMPERES. USE FOR PROTECTION OF CIRCUIT BREAKER PANELBOARDS.
- INSTALLATION – INSTALL COMPLETE RACEWAY SYSTEM IN PROGRESS WITH OTHER TRADES AND PRIOR TO PULLING WIRE/CABLE. FOLLOW NECA GUIDELINES FOR NEAT, FIRST CLASS WORKMANSHIP. SELECT PROPER SUPPORTS AND ANCHORS AND ALLOW AIR SPACE WHEN MOUNTING TO MASONRY OR CONCRETE SURFACES. WIRE LANDED ON BACK-WIRED DEVICES AND CLAMP TYPE TERMINAL BLOCKS DO NOT REQUIRE CRIMPED LUGS. MOUNT WITH TOP AT 66". SELECT FUSES BASED ON NAME PLATE RATING OR OTHER MANUFACTURER'S RECOMMENDATION WHEN AVAILABLE AND INSTALL IN EACH FUSIBLE DEVICE. PLACE INTUMESCENT FILL MATERIAL IN PENETRATIONS OF FIRE RATED ASSEMBLIES. MARK PANELBOARDS WITH PANEL DESIGNATION ABOVE DOOR AND INSIDE OF DOOR WITH PANEL DESIGNATION, VOLTAGE AND FEEDER DESIGNATION. MARK STARTERS, DISCONNECTS, ETC. WITH UNIT DESIGNATION, EQUIPMENT SERVED, VOLTAGE AND FEED CIRCUIT. APPLY FOLLOWING FINISH PAINTING AS APPLICABLE. BLUNT SCREW POINTS AFTER INSTALLATION TO PREVENT INJURY.
- GROUND THE ELECTRICAL SYSTEM. PROVIDE WIRE, CABLE, LUGS, CLAMPS, SURGE ARRESTORS AND RELATED PRODUCTS AS REQUIRED FOR A COMPLETE GROUNDING SYSTEM. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS. SIZE WIRE ACCORDING TO THE NEC.

## SYMBOL LEGEND - LIGHTING

SYMBOL	DESCRIPTION
	EXIT LIGHT – CEILING OR WALL MOUNT, BAR DENOTES FACE/ARROWS
	SURFACE OR RECESSED, LIGHT FIXTURE, K DENOTES TYPE
	WALL MOUNT LIGHT, K DENOTES TYPE
	4' LONG FIXTURE, K DENOTES TYPE, α DENOTES SWITCHING
	EM TYPE, 4' LONG FIXTURE, K DENOTES TYPE, α DENOTES SWITCHING
	STRIP LIGHT FIXTURE, K DENOTES TYPE, α DENOTES SWITCHING

## SYMBOL LEGEND - LIGHTING CONTROLS

SYMBOL	DESCRIPTION
	WALL MOUNTED PHOTOCELL
	CEILING MOUNT OCCUPANCY SENSOR; PROGRAM FOR AUTO OFF AFTER 20 MINUTES OF VACANCY.
	SINGLE POLE SWITCH WITH MANUAL DIMMING – 120/277 VOLT, 20 AMP RATED; MOUNT +42" A.F.F. TO BOTTOM OF BOX, U.N.O. S <sub>3</sub> THREE-WAY SWITCH S <sub>4</sub> FOUR-WAY SWITCH S <sub>6</sub> DUAL TECHNOLOGY OCCUPANCY SENSING DIMMER (ON/OFF) PROGRAMMED FOR AUTO ON/AUTO OFF AFTER 20 MINUTES OF VACANCY WITH MANUAL DIMMING..

## ABBREVIATIONS

MARK	DEFINITION	MARK	DEFINITION
A	AMPERES	MTD	MOUNTED
AFF	ABOVE FINISHED FLOOR	MTG	MOUNTING
AFG	ABOVE FINISHED GRADE	NEC	NATIONAL ELECTRIC CODE
AIC	AMP INTERRUPT CAPACITY	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AL	ALUMINUM	NIC	NOT IN CONTRACT
BLDG	BUILDING	NL	NIGHT LIGHT
BKR	BREAKER	NM	NONMETALLIC
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	PC	PHOTOCELL
CB	CIRCUIT BREAKER	PNL	PANEL
CKT	CIRCUIT	PVC	POLYVINYL CHLORIDE
CLG	CEILING	PWR	POWER
DTB	DATA TERMINAL BOARD	QTY	QUANTITY
EF	EXHAUST FAN	REC	RECEPTACLE
ELEC	ELECTRICAL	REFR	REFRIGERATOR
EM	EMERGENCY	REQD	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
EQUIP	EQUIPMENT	SWBD	SWITCHBOARD
ETR	EXISTING TO REMAIN	TC	TIME CLOCK
EWFC	ELECTRIC WATER COOLER	TEL	TELEPHONE
F	FUSED	TTB	TELEPHONE TERMINAL BOARD
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TV	TELEVISION
GRD	GROUND	TYP	TYPICAL
HP	HORSEPOWER	UL	UNDERWRITERS LABORATORY
JBOX	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
KV	KILOVOLTS	V	VOLTS
KVA	KILOVOLT AMPERES	VA	VOLT AMPERES
LTG	LIGHTING	W	WATTS
LTS	LIGHTS	WH	WATER HEATER
MCB	MAIN CIRCUIT BREAKER	WL	WET LOCATION
MDP	MAIN DISTRIBUTION PANEL	WP	WEATHERPROOF
MECH	MECHANICAL	XFMR	TRANSFORMER
MLO	MAIN LUGS ONLY		

## REMODEL NOTES

- REMOVE ELECTRICAL WORK FROM WALLS, CEILINGS, AND OTHER SURFACES TO BE REMOVED.
- REMOVE ABANDONED CONDUCTOR, ELECTRICAL EQUIPMENT, AND ACCESSIBLE RACEWAY.
- BLANK OFF ABANDONED OUTLETS USING PLATE TO MATCH DEVICE COVERS OR PATCH OPENINGS AND FINISH TO MATCH ADJACENT SURFACE.
- EXISTING EQUIPMENT DEVICES, ETC., INDICATED TO REMAIN ARE INTENDED TO REMAIN OPERATIONAL. RECURUIT OR REROUTE CIRCUITS AS REQUIRED TO MAINTAIN OPERATION.
- REMOVE EXISTING LIGHT FIXTURES FROM AREAS WHERE NEW LIGHTING IS INDICATED.
- EXISTING WORK INDICATED IS INTENDED TO BE A REASONABLE APROXIMATION AND IS FOR CONVENIENCE ONLY, NOT FOR THE BASIS OF BIDDING. DETERMINE EXACT QUANTITIES AND LOCATIONS AT THE JOB SITE.
- PROVIDE NEW TYPED CIRCUIT DIRECTORIES FOR PANELS WITH CIRCUIT CHANGES OR ADDITIONS.
- CLEAN AND RELAMP RE-USED LIGHT FIXTURE AND PROVIDE NEW ENDCAPS FOR INDIVIDUAL USE OF PREVIOUSLY ROW-MOUNTED FIXTURES.

## SYMBOL LEGEND - POWER

SYMBOL	DESCRIPTION
	WALL MOUNTED, 125 VOLT, 15 OR 20 AMP DUPLEX RECEPTACLE GE 5252 OR EQUAL. MOUNT AT +18" A.F.F., UNLESS NOTED OTHERWISE
	DOUBLE DUPLEX RECEPTACLE
	+42" AFF OR ABOVE COUNTER, OR AS OTHERWISE NOTED.
	FLUSH CEILING MOUNTED
	SPECIAL PURPOSE RECEPTACLE-MOUNT IN FLUSH WALL BOX. RECEPTACLE TO BE COORDINATED WITH LOAD SERVED.
	FLOOR BOX (1 DEVICE)
	TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE. MOUNT AT +80" AFF U.N.O. PROVIDE RECESSED MEDIA BOX WITH RECESSED ACTIVATIONS FOR BOTH POWER AND LOW VOLTAGE CABLES. PROVIDE DUPLEX RECEPTACLE, 4-PORT DATA OUTLET, CATV OUTLET AND OTHER DEVICES AS REQUIRED.
	JUNCTION BOX SIZE AND INSTALL PER NEC 314.
	FUSED DISCONNECT SWITCH. SIZE FUSES FOR MOTOR OVERLOAD PROTECTION PER NEC ARTICLE 430. F DENOTES SWITCH SIZE.
	WALL MOUNTED DATA OUTLET, MOUNT @ 18" A.F.F. UNO PROVIDE SINGLE GANG 4" SQUARE BOX WITH QUAD MUD RING AND PLASTIC BUSHING. RUN 1-1/4"C. STUB WITH PULL STRING TO ACCESSIBLE CEILING SPACE. DO NOT COMBINE WITH TELEPHONE OUTLET.
	FLUSH CEILING MOUNT DATA OUTLET. PROVIDE AS NOTED UNDER WALL MOUNT DATA OUTLET.
	THERMOSTAT, PROVIDE 3/4" CONDUIT TO ASSOCIATED MECHANICAL EQUIPMENT
	DATA/TELEPHONE TERMINAL BOARD (TTB) – (FIREPROOF PAINTED 4'x8'x3/4" PLYWOOD)
	PANEL BOARD, SURFACE MOUNT, REFER TO PANEL SCHEDULE
	FLUSH MOUNT
	CIRCUIT BREAKER
	SWITCH AND FUSE
	GROUND

## GENERAL NOTES

- VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS.
- INSTALL FIXTURES ON ACOUSTICAL TILE MODULES UNLESS OTHERWISE INDICATED.
- OUTLET DIMENSIONS ARE TO BOTTOM OF BOX.
- CIRCUITING INDICATED IS TO SHOW SWITCHING ETC. NOT QUANTITY OR EXACT LOCATION.
- VERIFY EXACT LIGHT FIXTURE LOCATION IN COORDINATION WITH OTHER TRADES AND RELOCATE AS NECESSARY FOR EXPOSED DUCTS, PIPING, ETC. AS DIRECTED.
- PROVIDE SILK SCREEN PRINTED CIRCUIT LABELS FOR ALL RECEPTACLES AND DATA OUTLETS. PROVIDE ENGRAVED ACRYLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECTS. DISCONNECTED NAMEPLATE SHALL INCLUDE NAME OF UNIT AS WELL AS CIRCUIT FEEDING UNIT. LOCATE DATA OUTLETS NO MORE THAN 2" FROM CORRESPONDING RECEPTACLE.
- VERIFY EXACT LOCATION FOR ELECTRICAL WATER COOLER OUTLETS.
- VERIFY LAB, FURNITURE, EQUIPMENT, ETC., MOUNTED OUTLET LOCATIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
- COMPLY WITH NEC 408.4(A). CLEARLY IDENTIFY CIRCUITS ON PANEL DIRECTORIES TO INCLUDE LOCATION SERVED AS WELL AS ITEM (I.E. REC – HALL 102)

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T21CM05662

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EXPIRES 08/31/2023  
*Sarah J. Leska*

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DOWNTOWN DISPENSARY

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TUCSON, AZ 85705

ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS

EO.0





**GENERAL NOTES:**

- A. DEVICES NOT SHOWN ARE EXISTING TO REMAIN U.N.O.

**KEY NOTES:**

- 1. REMOVE (E) LIGHTS, SWITCHES AND ASSOCIATED CONDUIT AND CONDUCTORS THIS AREA.
- 2. REMOVE (E) RECEPTACLES AND ASSOCIATED CONDUIT AND CONDUCTORS THIS AREA.



REMOVE EXISTING DISCONNECT AND ASSOCIATED CONDUITS & CONDUCTORS

REMOVE PANEL D  
REMOVE PANEL E

2 PANELS D & E



REMOVE EXISTING BACKSTAGE PANEL

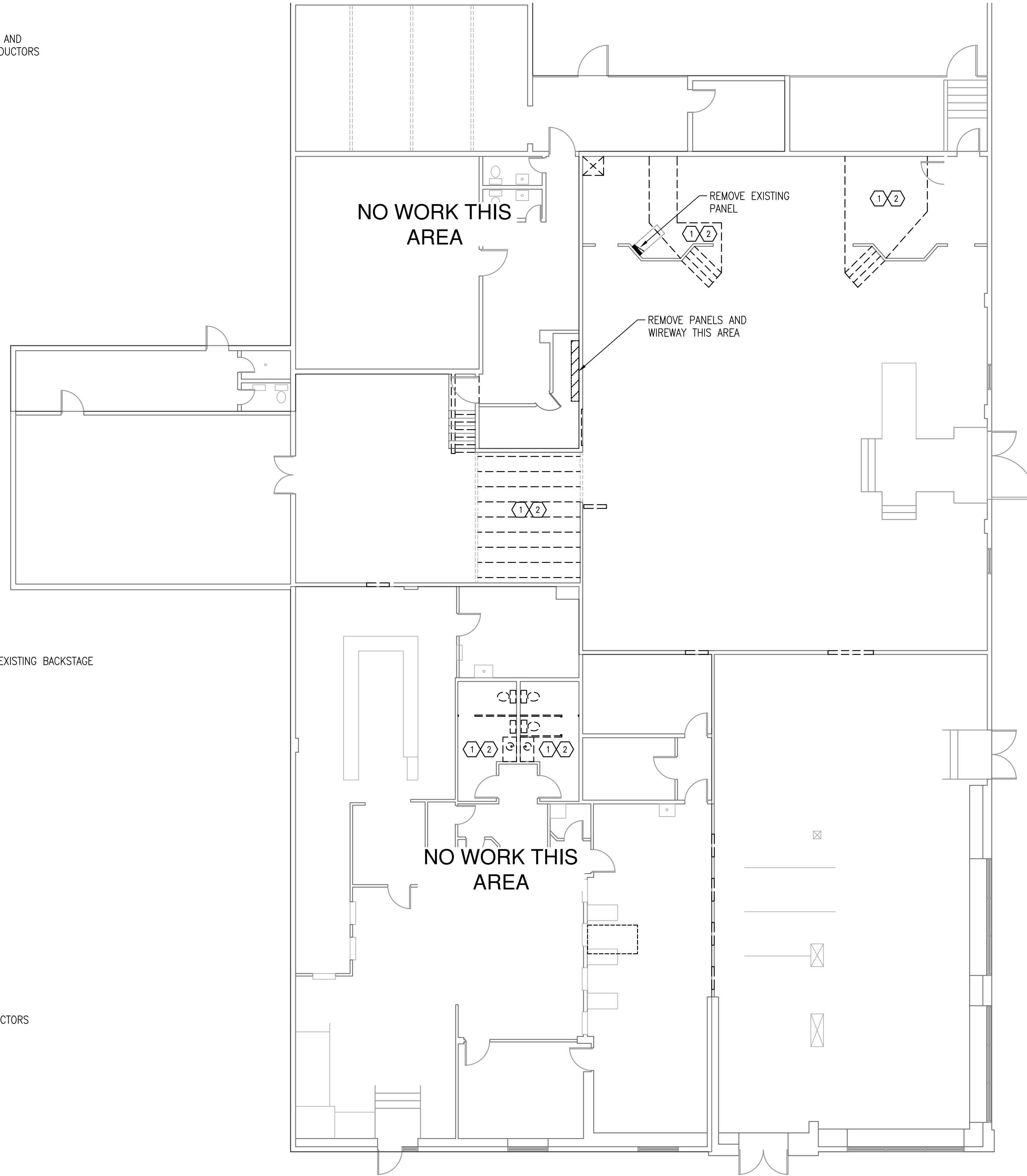
3 BACKSTAGE PANEL



REMOVE EXISTING PANEL AND ALL ASSOCIATED CIRCUITRY

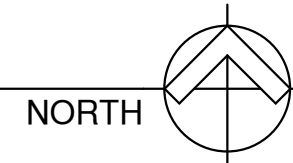
REMOVE EXISTING WIREWAY ASSOCIATED CONDUITS, CONDUCTORS AND WOODEN BOARDS

4 PANEL C



1 ELECTRICAL DEMOLITION PLAN

1/8" = 1'-0"



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**ELECTRICAL DEMOLITION PLAN**

**ED 1.0**



MARK	MANUFACTURER'S CATALOG #	MOUNT	LED LAMPING	LUMENS	VOLTAGE	SIZE	COLOR OR FINISH	DIMMING	LENS & DISTRIBUTION	WET LOC LISTED	OPTIONS & REMARKS
K1	LITHONIA #CLX SERIES COLUMBIA #MPS SERIES	CABLE +13' AFF	35W	5000	120V	3"x3" x48"	SMOKE GRAY WHITE ENDS	10%	LESS LOUVER WIDE DIFFUSE		PROVIDE CONNECTORS AS NEEDED FOR CONTINUOUS ROW MTG
K2	LITHONIA #EPANL SERIES COLUMBIA #CFP SERIES	SURFACE	39W	3905	120V	12"x 48"x2"	WHITE	10%	SATIN WHITE		PROVIDE SURFACE MOUNT KIT FOR GYP/HARD LID CEILINGS
K2A	LITHONIA #EPANL SERIES COLUMBIA #CFP SERIES	CABLE +12' AFF	39W	3905	120V	12"x 48"x2"	WHITE	10%	SATIN WHITE		TWO CABLES WITH ATTACHED CORD
K3	LITHONIA #CLX SERIES COLUMBIA #MPS SERIES	SURFACE	21W	2688	120V	3"x3" x48"	WHITE	10%	FLAT ACRYLIC		
K4	LITHONIA #LDN6/LO6 SERIES PRECOLITE #LTR-6RD SERIES	RECESS	13W	1000	120V	6"Øx7" x6"	MATTE DIFFUSE	10%	MATTE DIFFUSE		
K5	ANP LIGHTING #WM1925	WALL	9W	850	120V	9"x9"	TEXTURED SILVER	10%			
K6	LITHONIA #WPX1 SERIES OR APPROVED EQUAL	WALL +8' AFF	24W	2900	120V	8"x11" x4"	BRONZE		FULL CUT OFF TYPE IV	YES	INTEGRAL EM BATTERY; PHOTOCELL.
K7	JUNO #SLIMFORM SERIES CONTECH #SMTR5 SERIES	SURFACE	20W	1800	120V	13"x3"	BRONZE		FULL CUT OFF	YES	PROVIDE BACK BOX.
EXIT	LITHONIA #LQM SERIES DUAL LITE #EVE SERIES	WALL	GREEN LED		120V	11"x8" x2"	WHITE THERMOPLASTIC		GREEN LETTERS		NI-CAD BATTERY; FULL 5-YR WARRANTY; 3-YRS PRO-RATA @ 33% / YR.

- NOTES:**
1. PROVIDE 90 CRI FOR ALL FIXTURES; NO LESS THAN 80 CRI IF 90 IS NOT AVAILABLE.
  2. PROVIDE 3500K FOR ALL INTERIOR LIGHTING; 3000K FOR ALL EXTERIOR LIGHTING, U.N.O.
  3. EQUALS IN QUALITY, PERFORMANCE, AND AESTHETICS BY ACUITY, COOPER/EATON, HUBBELL, AND PHILIPS ARE ACCEPTABLE.
  4. INTEGRAL EM BATTERY PACKS TO PROVIDE 1400 LUMENS PER FIXTURE.
  5. STANDARD MANUFACTURERS 5 YEAR WARRANTY, U.N.O.
  6. LIGHT FIXTURE NAMEPLATE WATTAGE NOT TO EXCEED LED LAMP WATTAGES NOTED ABOVE.
  7. APPROVED ALTERNATE FIXTURES SHALL PROVIDE +/- 10% SPECIFIED LUMENS.



**Project Information**

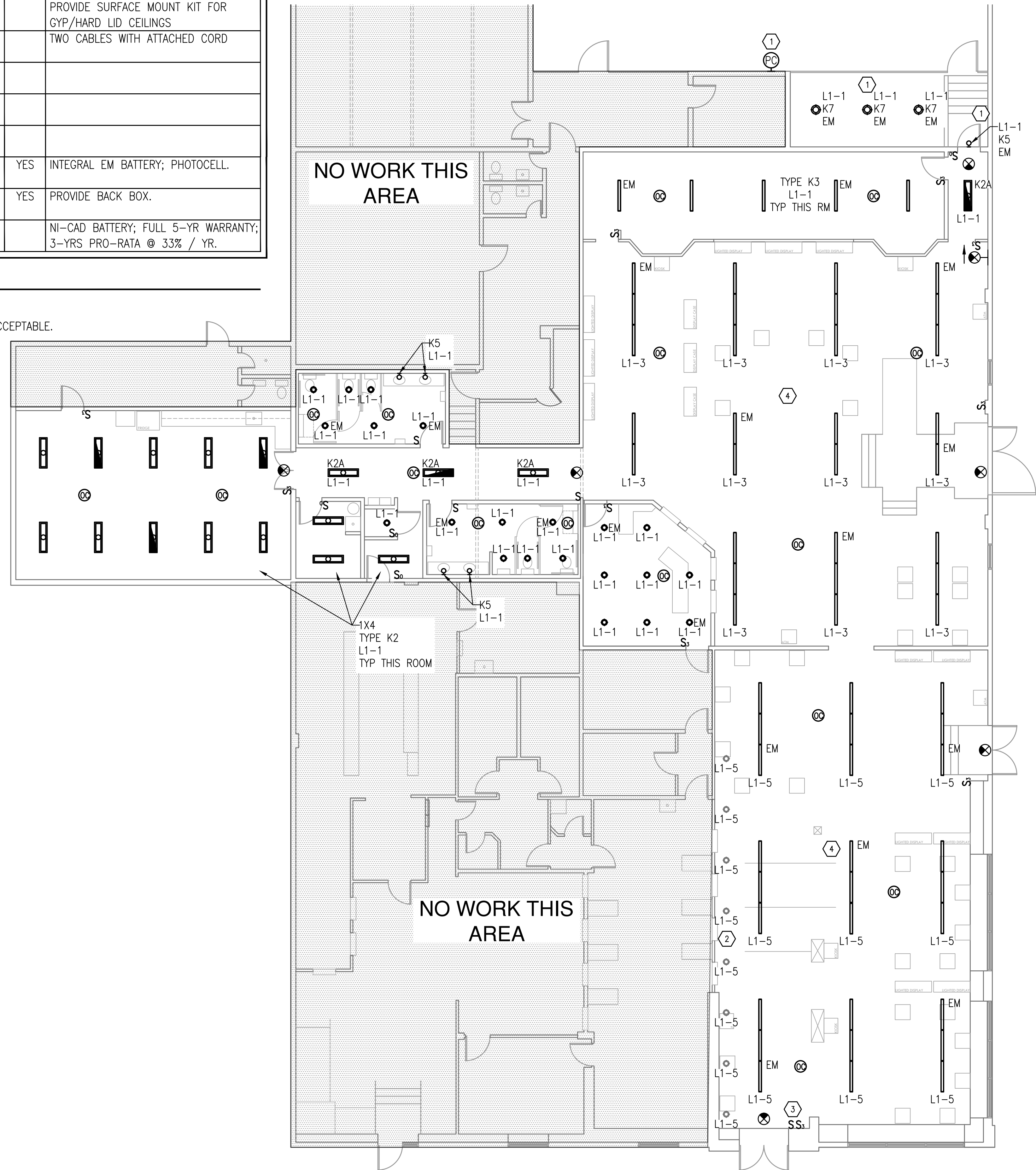
Energy Code: 2018 IECC  
 Project Title: Alteration  
 Construction Site: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_ Designer/Contractor: \_\_\_\_\_

A	B	C	D
Area Category	Floor Area (ft2)	Allowed Watts / ft2	Allowed Watts (B X C)
1-Retail	7808	1.08	8276
Total Allowed Watts =			8276

A	B	C	D	E
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixture	# of Fixtures	Fixture Watt.	(C X D)
<b>Retail (7808 sq.ft.)</b>				
LED 1: K1: Other:	1	56	35	1960
LED 2: K2: Other:	1	13	39	507
LED 3: K2A: Other:	1	4	39	156
LED 4: K3: Other:	1	5	21	105
LED 5: K4: Other:	1	21	13	273
LED 6: K5: Other:	1	4	9	36
Incandescent 1: ETR: DOWNLIGHTS: Other:	1	8	26	208
Total Proposed Watts =			3245	

**Interior Lighting PASSES**



- GENERAL NOTES:**
- STRIP LUMINAIRES ARE TYPE K1, UNO.
  - DOWNLIGHTS ARE TYPE K4, UNO.
  - CIRCUIT EM AND EXIT SIGNS TO NEAREST LIGHTING CIRCUIT. CONNECT AHEAD OF SWITCHING IN COMPLIANCE WITH NEC 700.12 (F).
  - MANUFACTURER OF SUBMITTED/APPROVED CEILING AND WALL MOUNTED OCCUPANCY SENSORS TO VERIFY PLACEMENT FOR PROPER COVERAGE AND FUNCTIONALITY OF DEVICES.
  - LOCATE WALL SWITCHES SUCH THAT EDGE OF COVERPLATE IS 4" MAX FROM ADJACENT DOOR JAMB.
  - EXTERIOR FIXTURES, THIS PROJECT, ARE FULL CUT OFF UNDER CANOPY; EXEMPT PER 2012 COT OUTDOOR LIGHTING ORDINANCE.

- KEY NOTES:**
1. PROVIDE AND MOUNT PHOTOCELL HIGH ON NORTH WALL. EXTERIOR LIGHTS AUTO ON 15 MINUTES PRIOR TO DUSK; AUTO OFF 15 MINUTES AFTER DAWN.
  2. RELAMP EXISTING DOWNLIGHTS WITH 26W MAX LED LAMPS.
  3. PROVIDE SWITCH FOR EXISTING TO REMAIN DOWNLIGHTS; PROVIDE THREE-WAY SWITCH FOR LINEAR LED STRIPS.
  4. VERIFY MOUNTING HEIGHT OF DUCTS. MOUNT LIGHTS AT LEAST 12" BELOW BOTTOM OF DUCTS AND AT UNIFORM HEIGHTS.

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1 LIGHTING PLAN  
 1/8" = 1'-0"  
 NORTH

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**E1.0**  
 LIGHTING PLAN



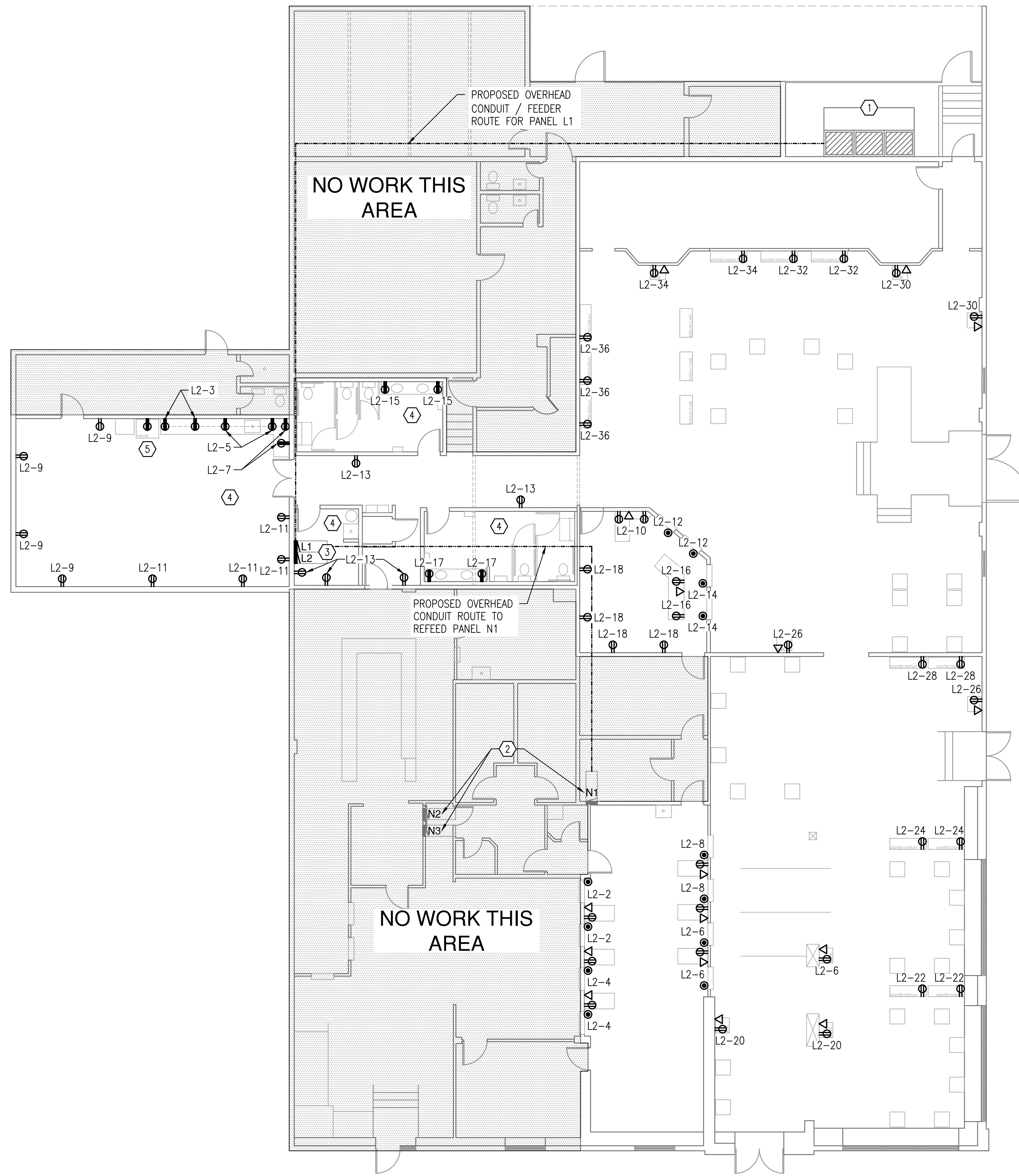
Sarah J. Leska

**GENERAL NOTES:**

- A. RECEPTACLES WITHIN 6' OF SOURCES OF WATER, PROVIDE GFCI DEVICE, +42" AFF.
- B. EXTERIOR RECEPTACLES SHALL BE GFCI, WP WITH PLUG INSERTED.
- C. PROVIDE TAMPER-RESISTANT RECEPTACLES IN COMPLIANCE WITH NEC 406.12. ALL NON-LOCKING, 120V 20A RECEPTACLES SPECIFIED IN NEC 210.561 SHALL BE TAMPER-RESISTANT. APPLIES TO BUSINESS OFFICE, CORRIDORS, WAITING ROOMS AND THE LIKE IN CLINICS, MEDICAL OFFICES, ETC.

**KEY NOTES:**

- 1. EXISTING ELECTRICAL SERVICE ENTRANCE EQUIPMENT. SEE ONE LINE DIAGRAM.
- 2. (ETR) PANELS
- 3. PROVIDE PANELS
- 4. RECEPTACLES THIS AREA +42" AFF, GFCI.
- 5. L2-1. REFRIGERATOR. PROVIDE 120V DEDICATED RECEPTACLE, +42" AFF.

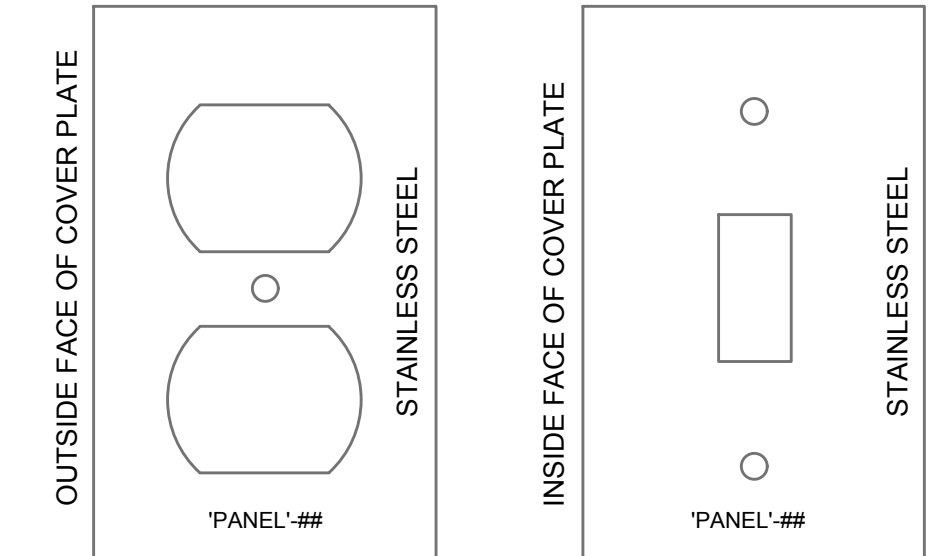


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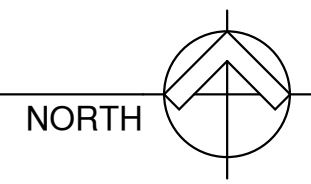
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- ✓ Building
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- ✓ Electrical
- ✓ Plumbing



1 COVER PLATE LABELING DETAIL  
NO SCALE

1 POWER PLAN  
1/8" = 1'-0"



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**DOWNTOWN DISPENSARY**

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**POWER PLAN**

**E2.0**



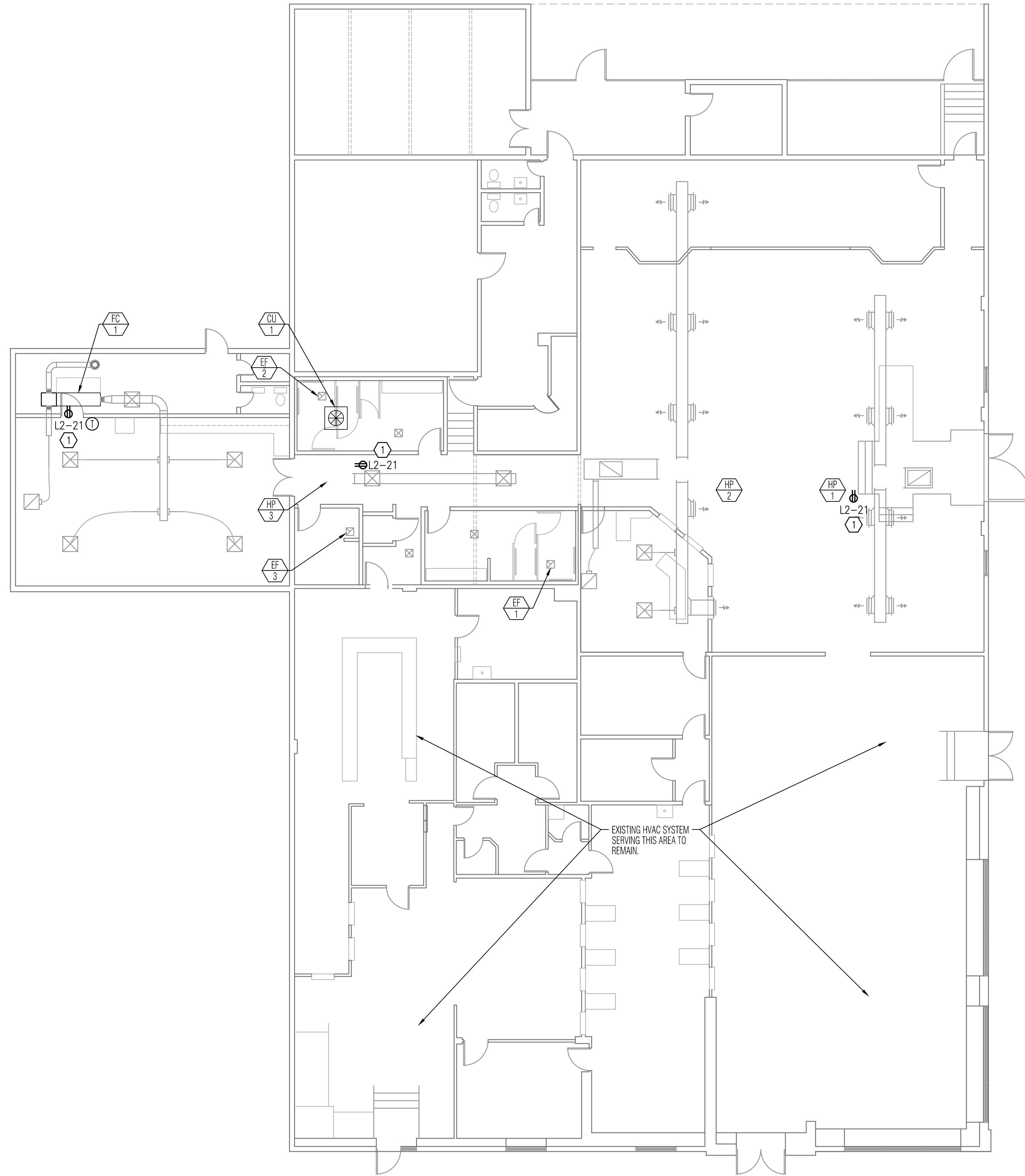
TAG	CIRCUIT	FEEDER	DISCONNECT SIZE	NOTES
EF-1	SEE NOTE 5	3/4"C., 2#12, #12 GRD.	30A	4,5,6
EF-2	SEE NOTE 5	3/4"C., 2#12, #12 GRD.	30A	4,5,6
EF-3	SEE NOTE 5	3/4"C., 2#12, #12 GRD.	30A	4,5,6
FC-1	L1-22,24	3/4"C., 2#12, #12 GRD.	30A	1,2,3
CU-1	L1-26,28,30	3/4"C., 2#10, #10 GRD.	30A	1,2,3
HP-1	L1-25,27,29	1"C., 3#8, #10 GRD.	60A	1,2,3
HP-2	L1-31,33,35	1"C., 3#8, #10 GRD.	60A	1,2,3
HP-3	L1-37,39,41	3/4"C., 3#10, #10 GRD.	30A	1,2,3
RP-1	L1-16	3/4"C., 2#12, #12 GRD.	30A	7,8
WH-1	L1-18,20	3/4"C., 2#10, #10 GRD.	30A	1,8

KEY NOTES:

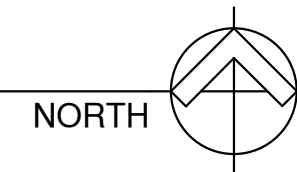
- GFCI, WP WITH PLUG INSERTED, ON ROOF.

NOTES:

- PROVIDE DISCONNECT: NEMA 1 FOR INTERIOR DRY LOCATIONS  
 NEMA 3R FOR EXTERIOR OR WET LOCATIONS  
 LOCATE ON UNISTRUT ADJACENT TO UNIT
- FUSE FOR MOTOR OVERLOAD PROTECTION BASED ON NAMEPLATE DATA
- 100K MAX AVAILABLE FAULT CURRENT; SCCR RATING TO INCLUDE ALL COMPONENTS,  
 NO ADDITIONAL UPSTREAM PROTECTION
- PROVIDE MOTOR-RATED SWITCH
- CONNECT TO ADJACENT LIGHTING CIRCUIT
- PROVIDE 365-DAY TIMER, FAN TO RUN DURING OPERATING HOURS
- PROVIDE 120V, 20A GFCI RECEPTACLE OR J-BOX AS REQUIRED
- COORDINATE CORD/PLUG CONNECTION REQUIREMENTS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.



1 MECHANICAL POWER PLAN  
 1/8" = 1'-0"



**Building Code Compliant**  
 REVIEW BY:  
**SAFEbuilt.**  
 08/16/2021 Dawn Woodard  
 ✓ Structural  
 ✓ Building  
 ✓ Mechanical  
 ✓ Electrical  
 ✓ Plumbing

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**DOWNTOWN DISPENSARY**  
 221 E 6TH ST  
 TUCSON, AZ 85705  
**MECHANICAL POWER PLAN**

**E2.1**



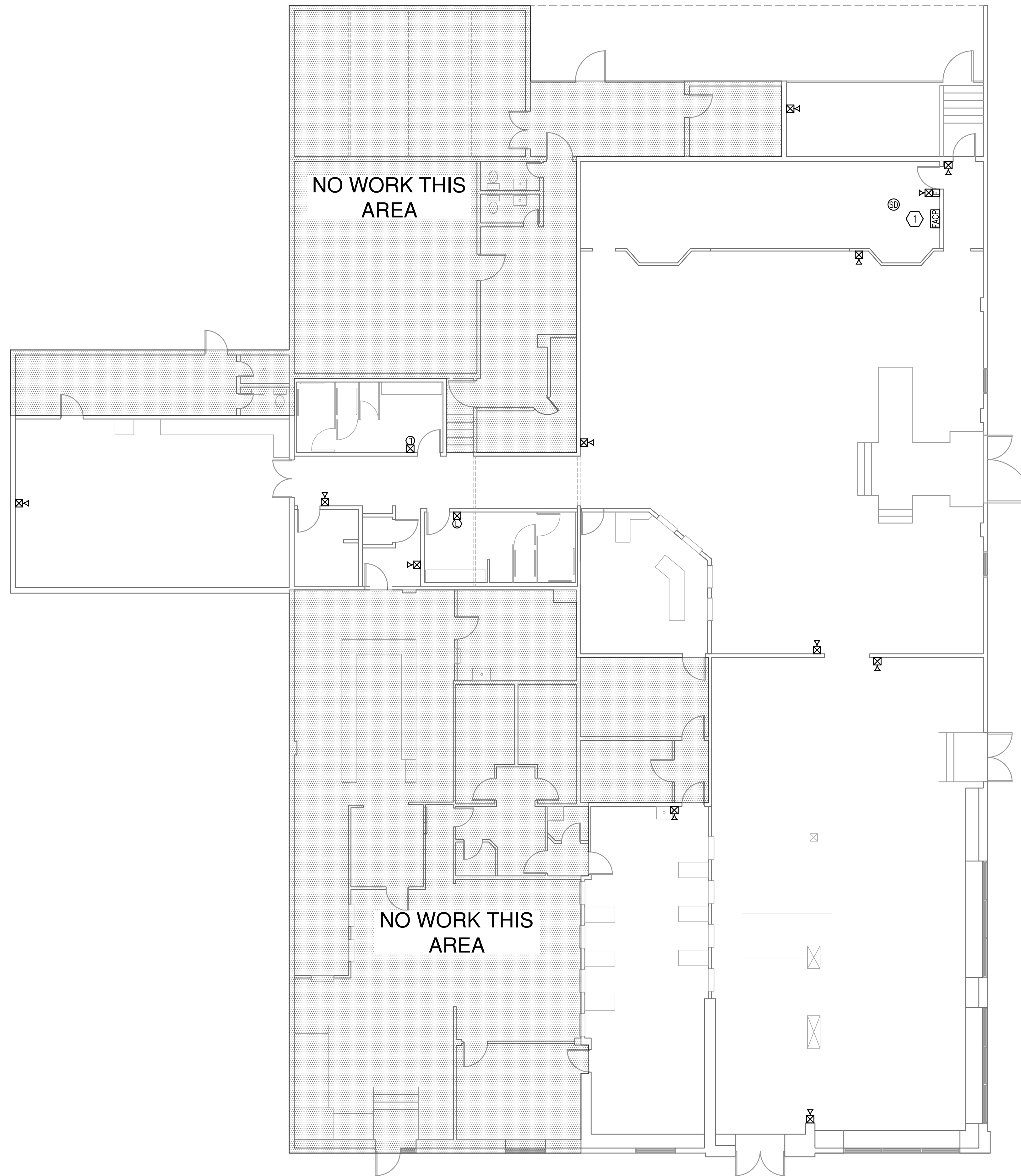
*Sarah J. Leska*

**FIRE ALARM GENERAL NOTES:**

- A. COMPLY WITH IFC 2018, 510.1 EMERGENCY RESPONDER RADIO COVERAGE. NEW BUILDINGS SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS WITHIN THE BUILDING BASED ON THE EXISTING COVERAGE LEVELS OF THE PUBLIC SAFETY COMMUNICATION SYSTEMS UTILIZED BY THE JURISDICTION, MEASURED AT THE EXTERIOR OF THE BUILDING.
- B. IF THE SIGNAL STRENGTH WITHIN THE BUILDING DOES NOT PASS THE REQUIRED COVERAGE LEVELS, PROVIDE BI-DIRECTIONAL ANTENNA AS DIRECTED BY LOCAL FIRE JURISDICTION.
- C. COMPLY WITH IFC 2018, 907.5.2.1.1 AVERAGE SOUND PRESSURE. AUDIBLE ALARM NOTIFICATION APPLIANCES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15dBA ABOVE AVERAGE AMBIENT SOUND LEVEL OR 5 dBA ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF NOT LESS THAN 60-SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIABLE SPACE WITHIN THE BUILDING.
- D. COMPLY WITH NFPA 72, 2016 A.13.4.3 AVERAGE AMBIENT SOUND LEVELS BASED ON LOCATION.

**KEY NOTES:**

- 1. REPLACE EXISTING FACP. L2-19. PROVIDE 120V CIRCUIT WITH LOCKABLE BREAKER.



**Building Code Compliant**

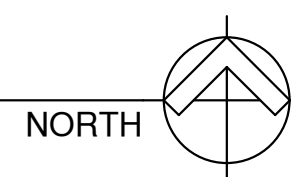
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1 SYSTEMS PLAN  
1/8" = 1'-0"



**DOWNTOWN DISPENSARY**

**221 E 6TH ST  
TUCSON, AZ 85705**

**SYSTEMS PLAN**

**E3.0**

JOB NAME: DISPENSARIOB NO: 21003 RM: STOR RATED ISC: 42,000 PANEL NO: L1												
VOLTAGE: 120/208 PHASE: 3 WIRE: 4 MAIN: LUG 400 AMP TYPE: MOUNTING: SURFACE												
REMARKS: PROVIDE PANEL												
REMARKS:	BKR	CKT	HP	KVA			HP	CKT	BKR	REMARKS:		
				A	B	C						
LTS WEST RETAIL, BOH	20/1	1		1.1				2			SPACE	
LTS EAST RETAIL	20/1	3			1.0			4			' '	
LTS SE RETAIL	20/1	5				1.0		6			' '	
SPARE	20/1	7						8			' '	
' '	20/1	9						10			' '	
' '	20/1	11						12			' '	
' '	20/1	13						14			' '	
' '	20/1	15			0.2			16	20/1		RP-1	
' '	20/1	17				2.2		18	30/2		WH-1	
SPACE		19			2.2			20			' '	
' '		21			0.2			22	20/2		FC-1	
' '		23				0.2		24			' '	
HP-1	45/3	27		3.8				26			' '	
		29		0.6				28	25/3		CU-1	
		31		3.8				30			' '	
HP-2	45/3	33		7.1				32	125/3		PANEL L2	
		35		3.8				34			' '	
		37		6.1				36			' '	
HP-3	45/3	39		2.8				38	200/3		PANEL N3	
		41		8.6				40			' '	
				2.8				42			' '	
				8.4							' '	
				8.8							' '	
CONNECTED TOTALS:				30.2	27.0	28.7						
LARGEST MOTOR/CONTINUOUS x 1.25				6.2	6.1	6.1	TOTAL DEMAND (KVA):		89.6			
NON-CONTINUOUS				25.2	22.1	23.8	NON-COINCIDENT (KVA):					
DEMAND:				31.4	28.2	29.9	NET KVA: 90 AMP:		262			

JOB NAME: DISPENSARIOB NO: 21003 RM: STOR RATED ISC: 42,000 PANEL NO: L2												
VOLTAGE: 120/208 PHASE: 3 WIRE: 4 MAIN: LUG 125 AMP TYPE: MOUNTING: SURFACE												
REMARKS: PROVIDE PANEL												
REMARKS:	BKR	CKT	HP	KVA			HP	CKT	BKR	REMARKS:		
				A	B	C						
REFRIGERATOR	20/1	1		1.5				2	20/1		REC RETAIL WINDOW	
REC APPLIANCE	20/1	3		1.0				4	20/1		' '	
' '	20/1	5				1.5		6	20/1		' '	
' '	20/1	7				1.0		8	20/1		' '	
REC KITCHEN	20/1	9			0.7			10	20/1		' '	
' '	20/1	11				1.0		12	20/1		' '	
REC STORAGE, HALL	20/1	13		0.9				14	20/1		' '	
GFCI REC RESTROOM	20/1	15			0.4			16	20/1		' '	
' '	20/1	17				0.7		18	20/1		REC DISPLAY OFFICE	
FACP LOCK	20/1	19				0.2		20	20/1		REC KIOSK/DISPLAY FLR	
REC ROOF/HVAC	20/1	21				0.5		22	20/1		' '	
SPARE	20/1	23						24	20/1		' '	
' '	20/1	25						26	20/1		' '	
' '	20/1	27						28	20/1		' '	
' '	20/1	29						30	20/1		' '	
' '	20/1	31						32	20/1		' '	
' '	20/1	33						34	20/1		' '	
' '	20/1	35						36	20/1		' '	
' '	20/1	37						38	20/1		SPARE	
' '	20/1	39						40	20/1		' '	
' '	20/1	41						42	20/1		' '	
CONNECTED TOTALS:				7.1	6.1	5.3						
LARGEST MOTOR/CONTINUOUS x 1.25				0.0	0.0	0.0	TOTAL DEMAND (KVA):		18.5			
NON-CONTINUOUS				7.1	6.1	5.3	NON-COINCIDENT (KVA):					
DEMAND:				7.1	6.1	5.3	NET KVA: 19 AMP:		59			

JOB NAME: DISPENSARIOB NO: 21003 RM: HALL RATED ISC: 22KAIC MIN PANEL NO: N3												
VOLTAGE: 120/208 PHASE: 3 WIRE: 4 MAIN: LUG 200 AMP TYPE: MOUNTING: SURFACE												
REMARKS: EXISTING SIEMENS LOAD CENTER #G4242ML3225CU NOTE: VERIFY EXISTING AIC RATING. REPLACE PANEL AND BREAKERS TO COMPLY												
REMARKS:	BKR	CKT	HP	KVA			HP	CKT	BKR	REMARKS:		
				A	B	C						
REC	20/1	1		1.1				2	20/1		REC WEST OFFICE	
' '	20/1	3				1.1		4	20/1		' '	
' '	20/1	5				1.1		6	20/1		REC	
' '	20/1	7				1.1		8	20/1		' '	
' '	20/1	9				1.1		10	20/1		BATH HALL LTGS	
' '	20/1	11				1.1		12	20/1		REC	
' '	20/1	13				1.1		14	20/1		' '	
' '	20/1	15				1.1		16	20/1		REC TIMECLOCK	
' '	20/1	17				1.1		18	20/1		REC	
SPARE	30/3	19				1.1		20	20/1		' '	
' '		21				1.1		22	20/1		' '	
' '		23				1.5		24	20/1		LTS REAR	
SPARE	30/3	25				1.1		26	20/1		REC	
' '		27						28	30/1		EXISTING REC DATA	
' '		29				1.5		30	20/1		' '	
SPARE	20/3	31						32	25/2		EXISTING	
' '		33						34			' '	
EXTRACTION RM	20/2	35						36	20/2		EXISTING	
' '		37						38			' '	
EXTRACTION RM	20/2	39						40	20/2		EXISTING	
' '		41						42			' '	
CONNECTED TOTALS:				8.6	8.0	8.4						
LARGEST MOTOR/CONTINUOUS x 1.25				0.0	1.9	1.9	TOTAL DEMAND (KVA):		25.8			
NON-CONTINUOUS				8.6	6.5	6.9	NON-COINCIDENT (KVA):					
DEMAND:				8.6	8.4	8.8	NET KVA: 26 AMP:		73			

**ELECTRICAL LOAD SUMMARY**

**PANEL L1**

Largest Motor	@ 125% Demand	14.4 KVA
Lighting	@ 125% Demand	4.0 KVA
Receptacles	@ 100% Demand	0.0 KVA
Other Mechanical	@ 100% Demand	26.9 KVA
Panel L2	@ 100% Demand	18.5 KVA
Panel N3	@ 100% Demand	25.8 KVA
<b>Total</b>		<b>89.6 KVA</b>

120/208-3ph-4w = 249 Amps  
 PROVIDE 200 AMP PANEL

**TOTAL SERVICE LOAD SUMMARY**

Panel L1	@ 100% Demand	89.6 KVA
Panel N1	@ 100% Demand	56.9 KVA
Panel N2	@ 100% Demand	56.9 KVA
Suite 105	@ 100% Demand	56.9 KVA
Spare	@ 10% Demand	26.0 KVA
<b>Total</b>		<b>286.4 KVA</b>

120/208-3ph-4w = 795 Amps  
 EXISTING 800A SERVICE SWITCHBOARD OK  
 PROVIDE 30-DAY METER READING WITH 15-MIN INCREMENTS TO ENGINEER PRIOR TO START OF CONSTRUCTION

**Building Code Compliant**

REVIEW BY: **SAFEbuilt.**

08/16/2021 DawnWoodard

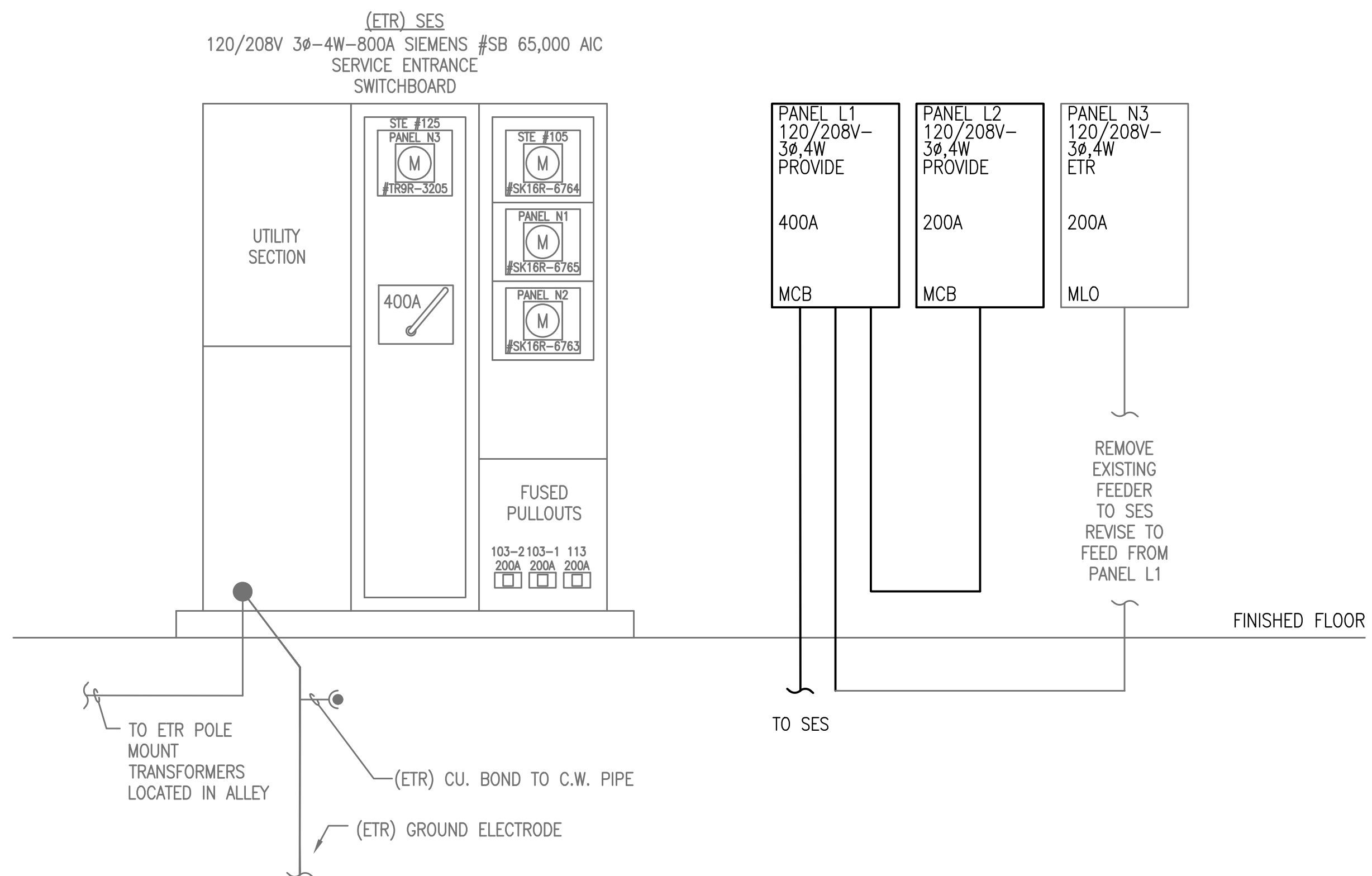
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**COMPUTERIZED FAULT CURRENT ANALYSIS**

FAULT MARK	MAG DUCT	E	# SETS	SIZE	"C"	LENGTH	STEP	ISCP PERSPECTIVE FAULT KA	FC C/NOM. SETS	FT 1.732L/ISCP 100,000KVA	M 1+1	ISCC 1.00	ISCT VP/VS/SCPM	REMARKS	AIC RATING
AF-1							1	36800						BEGINNING ISCP FROM LOCAL POWER CO. @ SERVICE SWITCHBOARD SES	65,000
							2								
							3								
AF-2	TRUE	208	2	#4/0	15082	50	1	36800	0.51		0.66	24404		@ PANEL L1	42,000
							2								
							3								
AF-3	TRUE	208	1	#4/0	15082	1	1	24404	0.01		0.99	24079		@ PANEL L2	42,000
							2								
							3								
AF-4	TRUE	208	1	#4/0	15082	25	1	24404	0.34		0.75	18255		@ PANEL N3	22,000
							2								
							3								

**ONE LINE DIAGRAM FEEDER SCHEDULE**

ITEM	CU FEEDER	NOTES
200A PANEL	2-1/2"C, 4 #4/0, #4 GRD.	PANEL L2, N3
400A PANEL	(2) 2-1/2"C, 4 #4/0, #2 GRD. IN EACH	PANEL L1



1 ONE LINE DIAGRAM NO SCALE

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**EDA**

**DOWNTOWN DISPENSARY**  
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**TUCSON, AZ 85705**  
**ONE LINE DIAGRAM, PANEL SCHEDULES AND CALC**

**E4.0**