

Sonoran Holdings LLC Phase II

CAMP VERDE, ARIZONA

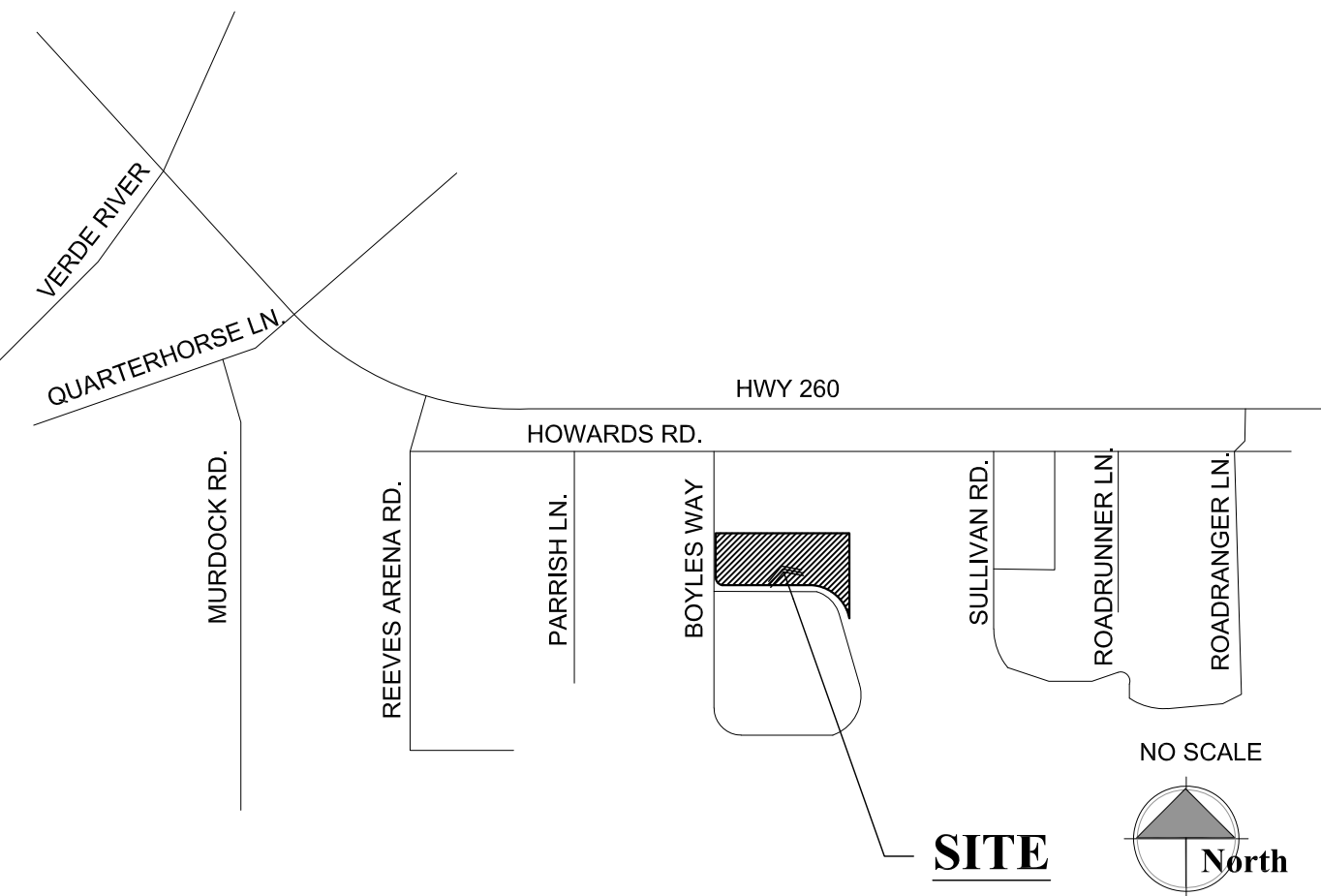
Deferred Submittals

The following items are required and will be provided as a deferred submittal:

- Automatic Fire Sprinkler System.
- Fire Alarm System.

Automatic Fire Sprinkler System & Fire Alarm System submittal documents for deferred submittal shall be submitted to the local fire district, who shall review them and forward them to the building official, with a notation indicating that the deferred submittal documents have been reviewed and that they have been found to be in general conformance with the design of the building. The deferred submittal items shall "NOT" be installed until their design and submittal documents have been approved by the fire marshal having jurisdiction.

Vicinity Map



Graphic Standards



Project Information

Owner:	Sonoran Holdings LLC 1581 S. Boyles Way Camp Verde, AZ 86322
Contact:	Bruce Berkson bruceberkson@yahoo.com
Prepared by:	W. Alan Kenson & Associates, P.C. P.O. Box 11593 Prescott, AZ 86304
Contact:	Alan Kenson, 928-443-5812 waka@cableone.net
Jobsite Address:	1581 S. Boyles Way, Camp Verde, AZ 86322
Parcel Number:	404-02-024T
Lot Area:	2.5 Acres
Zoning:	C3
Current Code:	2018 International Building Code
Existing Building :	44,000 S.F.
Area of Renovation:	20,563 S.F.
Occupancy:	F1 Factory Industrial Moderate Hazard
Construction Type:	Type II-B
Building Codes:	2012 International Building Code 2012 International Plumbing Code 2012 International Mechanical Code 2012 International Fuel Gas Code 2012 International Fire Code 2011 National Electric Code 2006 International Energy Conservation Code 2010 ADA Standards for Accessible Design

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Project Description

SONORAN HOLDINGS LLC INTENDS TO ADD MEDICAL MARIJUANA GROW ROOMS INSIDE OF AN EXISTING METAL BUILDING THAT CURRENTLY HOUSES OFFICES AND SMALL GROW ROOMS.

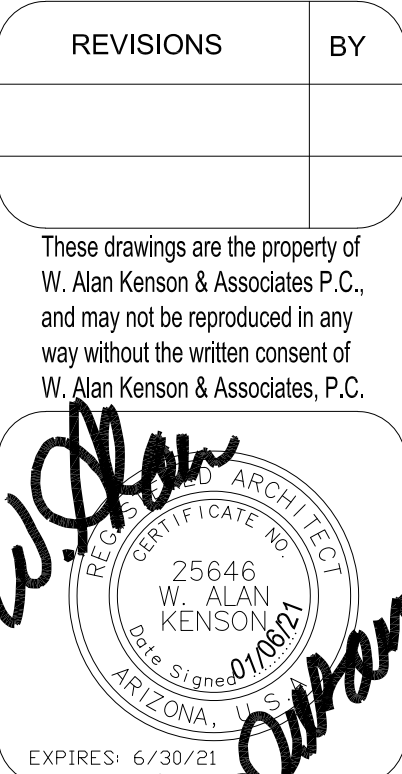
Architect:

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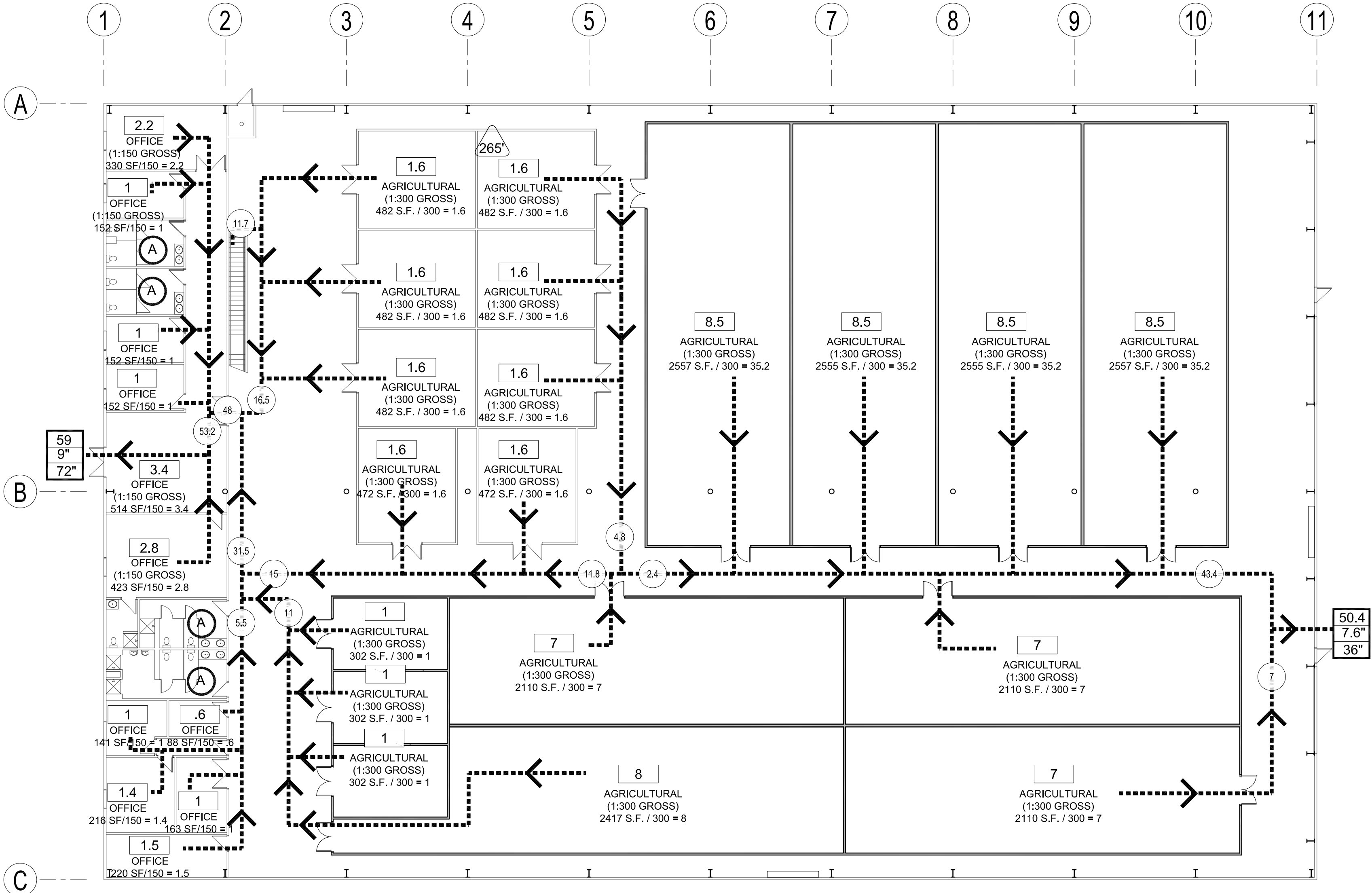
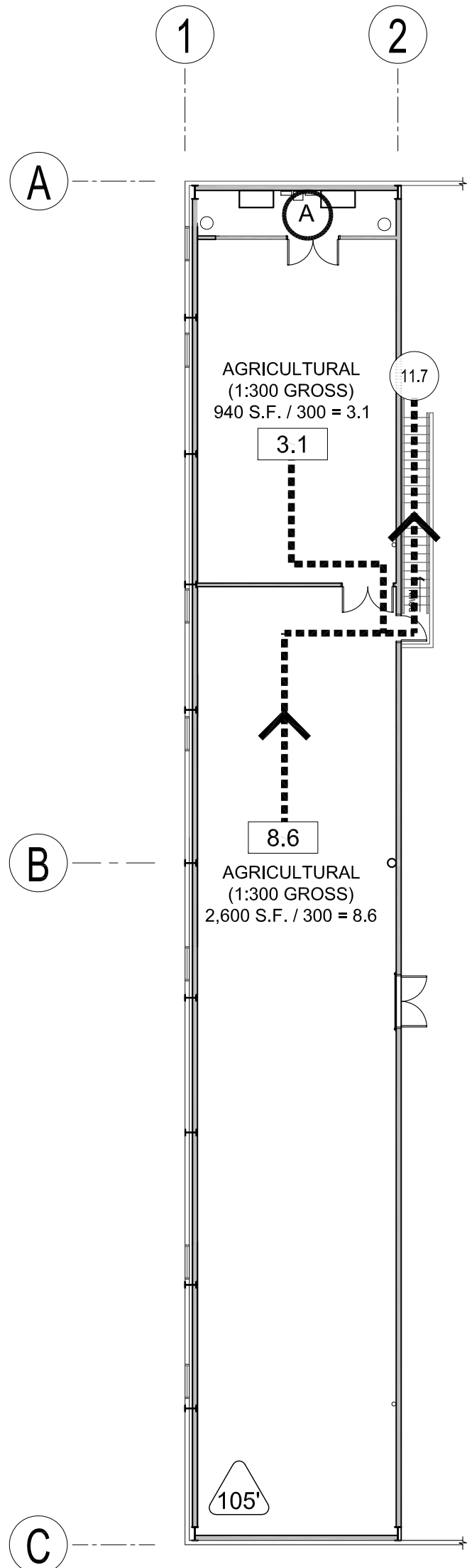
DRAWING: Cover Sheet

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T

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CHECKED BY
W.A.K.
DATE
Jan 6th, 2021
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CS1



Plumbing Calculations

OCCUPANCY CLASSIFICATION	OCCUPANCY COUNT	WATER CLOSETS	LAVATORIES
FACTORY / INDUSTRIAL	91	.91	.91
BUSINESS	17	.68	.21
TOTAL REQUIRED		1.59	1.12
TOTAL PROVIDED		8 W.C. & 2 URINAL	8

Egress Legend:

----->	EXIT ACCESS
(A)	ACCESSORY USE (NO OCCUPANCY)
XX	ROOM OCCUPANCY LOAD
XX	SUBTOTAL OCCUPANCY LOAD
XX	OCCUPANCY TOTAL
XX	REQUIRED EXIT WIDTH (FACTOR = 0.15)
XX	PROVIDED EXIT WIDTH
#	WORST CASE TRAVEL DISTANCE
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
AGRICULTURAL	300 GROSS
OFFICE	150 GROSS

Occupant load

NOTE:
GROSS SQUARE FOOTAGE LISTED BELOW
DOES NOT INCLUDE ACCESSORY AREAS.

AGRICULTURAL:	27,253 SQ. FT.	91 OCCUPANTS
OFFICE AREA:	2,551 SQ. FT.	17 OCCUPANTS
TOTAL:	29,804 SQ. FT.	108 OCCUPANTS

- NOTE:
- PROVIDE A 6"x9" BLUE TACTILE 'EXIT' SIGN AS MANUFACTURED BY 'SIMPLY EXIT SIGNS (#SE-1980)' OR EQUAL COMPLYING WITH ICCA117.1 AND IBC 1011.3 ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. SIGN SHALL BE MOUNTED 60" A.F.F. TO THE CENTER OF THE SIGN.

Accessibility Notes

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

REVISIONS	BY

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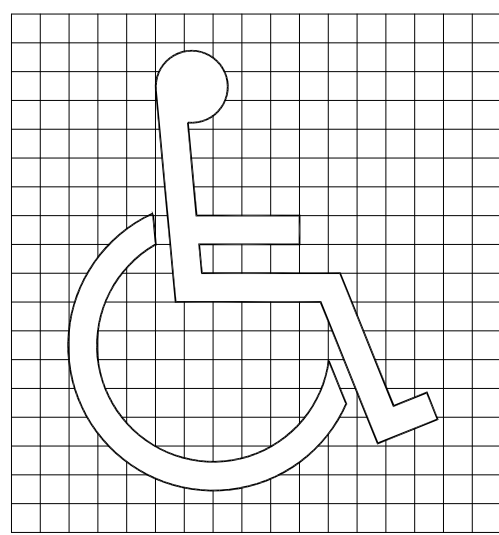
DRAWING: Occupancy / Egress Plans and Code Summary

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

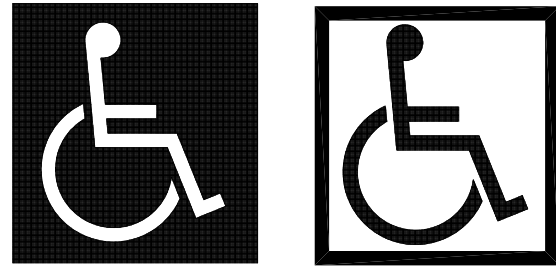
APN: 404-02-024T

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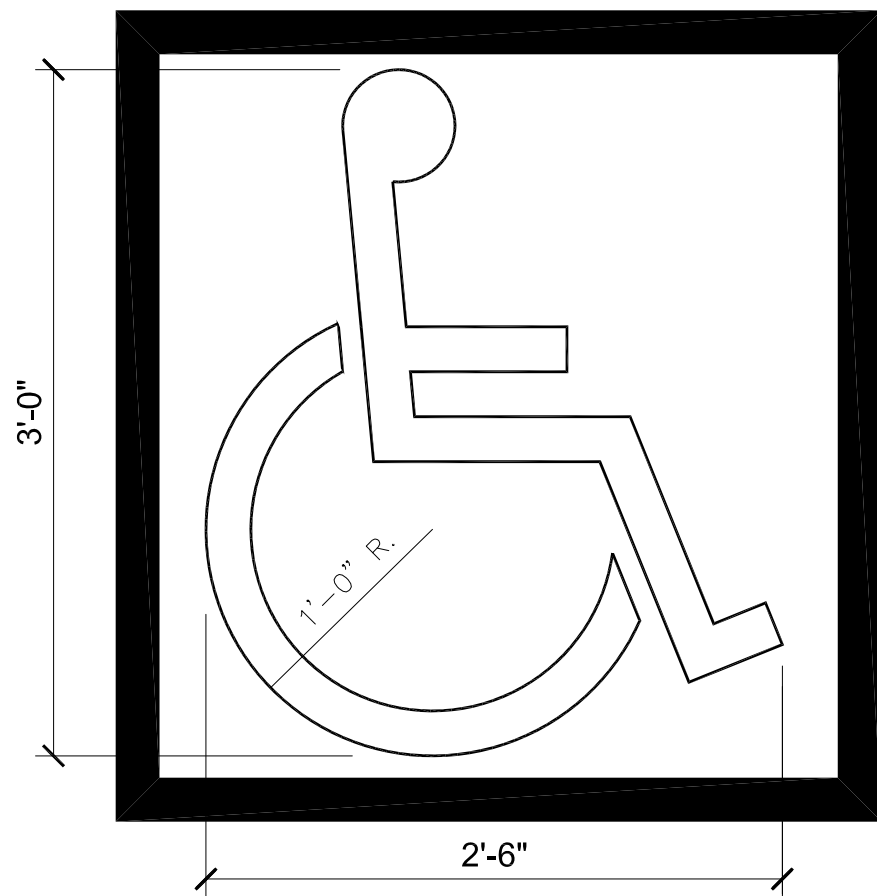
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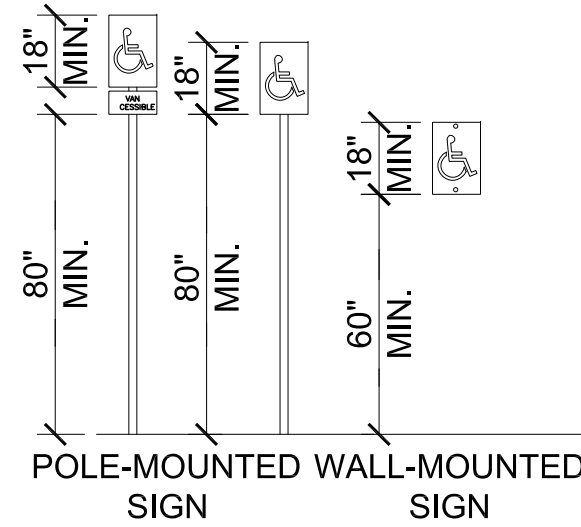
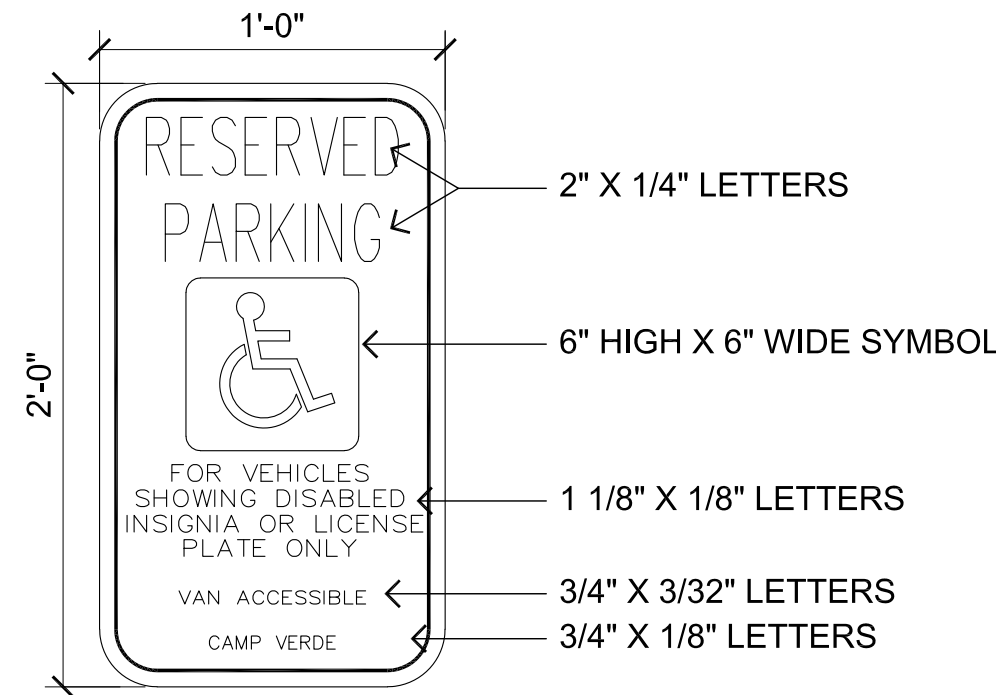
PROPORTIONS



DISPLAY CONDITIONS



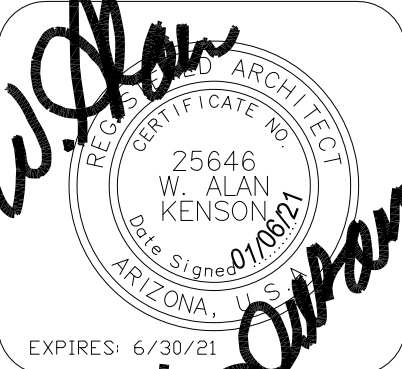
SYMBOL @ PARKING SPACE



1. THE SIGN PLATE SHALL BE A MINIMUM OF 12"x24" WITH A THICKNESS OF .080 ALUMINUM CONSTRUCTION.
2. THE SIGN FACE SHALL HAVE A WHITE REFLECTIVE BACKGROUND WITH A BLUE LEGEND. (STANDARD 3M SCOTCHLITE SIGN FACE NUMBER R7-32 OR EQUIVALENT, WITH BLUE SCREEN PRINTED LETTER AS SHOWN ABOVE.)
3. ALL ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN ON A CITY APPROVED STATIONARY POST OR WALL LOCATION. THESE SIGNS SHALL NOT BE OBSCURED.
4. ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED FOR PHYSICALLY DISABLED BY A SIGN SHOWING THE INTERNATIONAL WHEELCHAIR SYMBOL IN COLOR SCHEME ON CONTRASTING BACKGROUND.
5. THE SIGN SHALL HAVE THE MINIMUM VERBIAGE OF "RESERVED PARKING" AND INTERNATIONAL WHEELCHAIR SYMBOL.

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WAKA

REGISTERED PROFESSIONAL ARCHITECT

DRAWING: Site Details

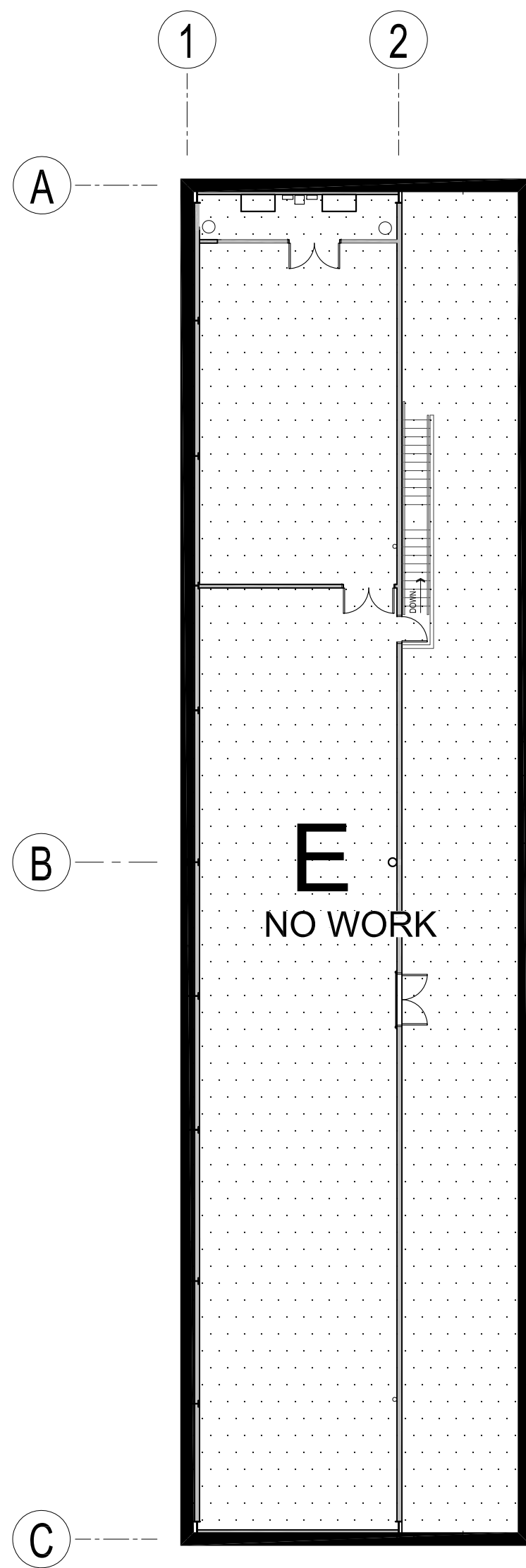
PROJECT: Sonoran Holdings LLC, Phase II
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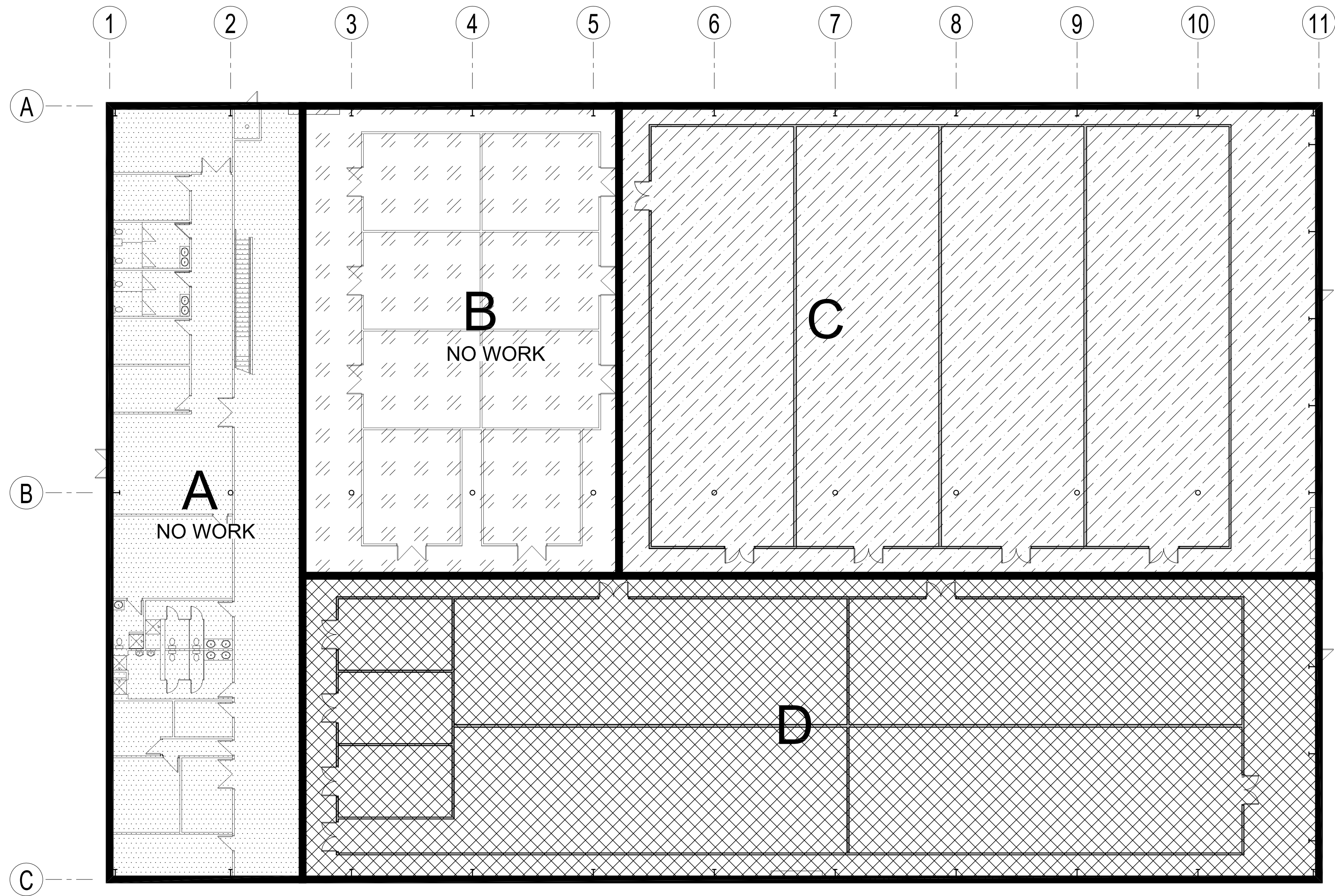
DRAWN BY L.O.
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DATE Jan 6th, 2021
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Jan 06, 2021 - 2:42pm

A1 Overall / Key Plan 2nd Floor
Scale: 1/16"=1'-0"  Plan North



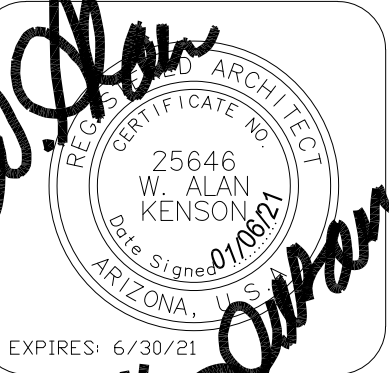
B1 Overall / Key Plan 1st Floor



Scale: 1/16"=1'-0"  Plan North

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DRAWING: Overall / Key Plans

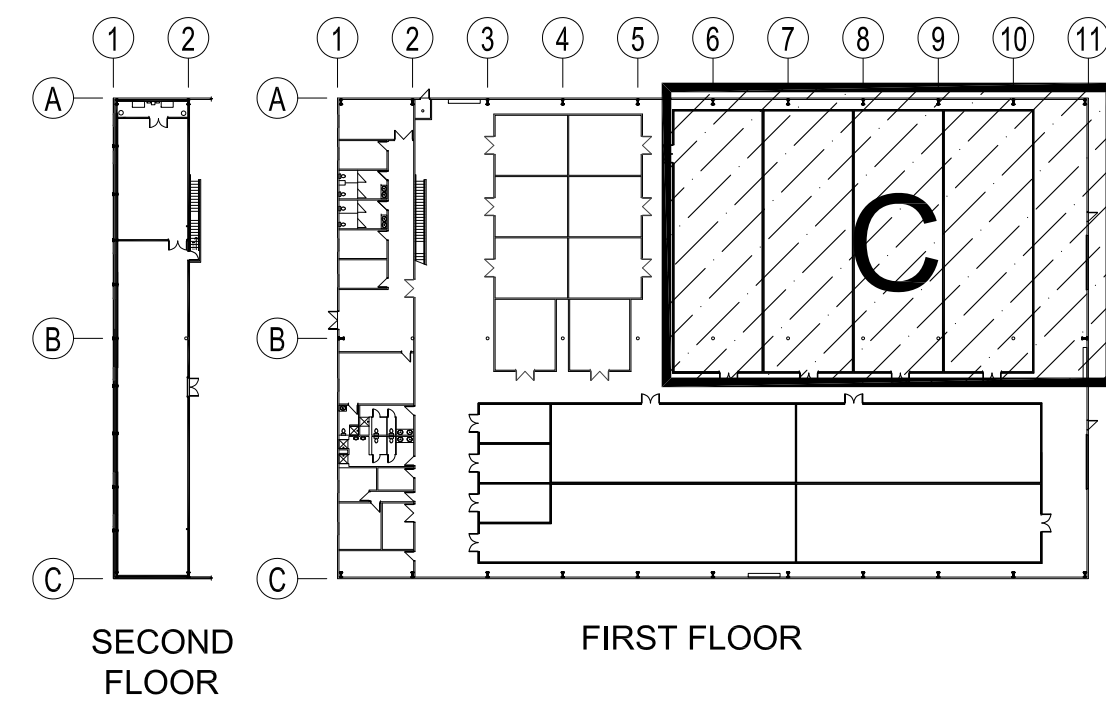
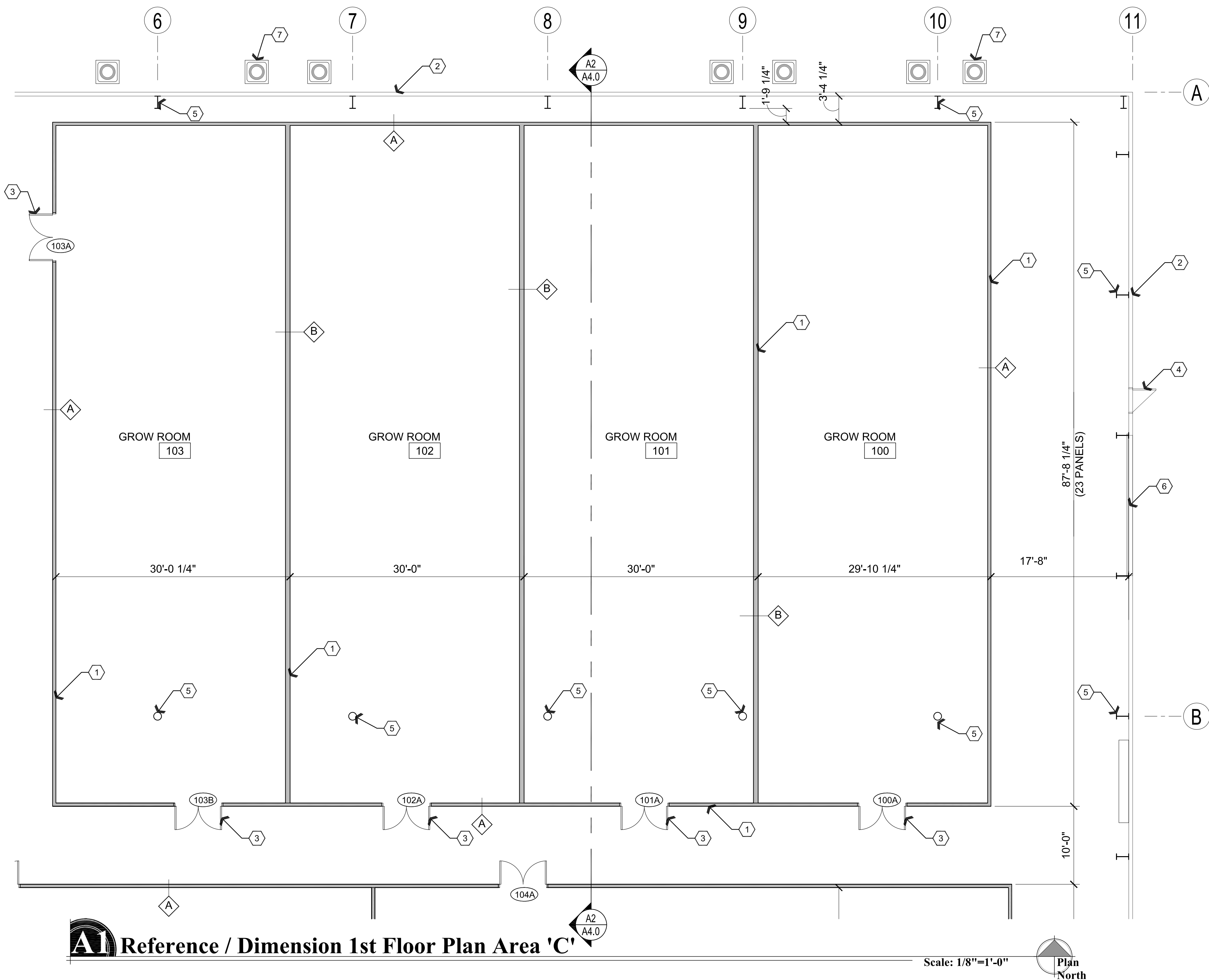
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A1.0

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Wall Types Legend	
A	INTERIOR 4-5/8" INSULATED PANEL WALL: DIVERSIFIED PANEL SYSTEMS SERIES 500 PANELS SL-504, 4-5/8" x 45-3/4"
B	INTERIOR 6" INSULATED PANEL WALL: DIVERSIFIED PANEL SYSTEMS SERIES 500 PANELS SL-504, 6" x 45-3/4"
NOTE: REFER TO WALL DETAILS ON SHEET A5.0	

Descriptive Keynotes	
1.	PROVIDE INTERIOR WALL, REFER TO WALL TYPES LEGEND FOR TYPE OF CONSTRUCTION.
2.	EXISTING EXTERIOR WALL.
3.	PROVIDE DOOR, REFER TO DOOR SCHEDULE.
4.	EXISTING DOOR OPENING.
5.	EXISTING STEEL COLUMN.
6.	EXISTING ROLL-UP DOOR.
7.	PROVIDE CONDENSER, REFER TO MECHANICAL PLANS.

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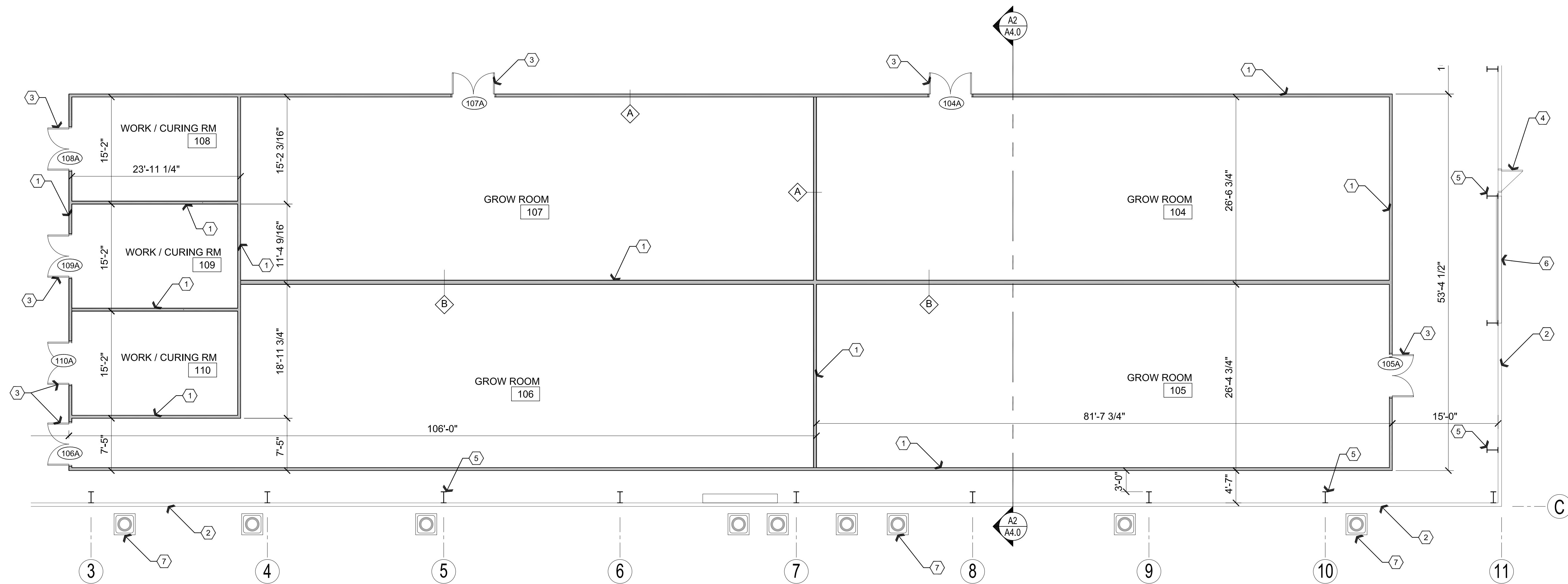
ARCHITECTURE & PLANNING

DRAWING:	Reference / Dimension Floor Plan
PROJECT:	Sonoran Holdings LLC, Phase II 1581 S. Boyles Way Camp Verde, AZ 86322
APN:	404-02-024T

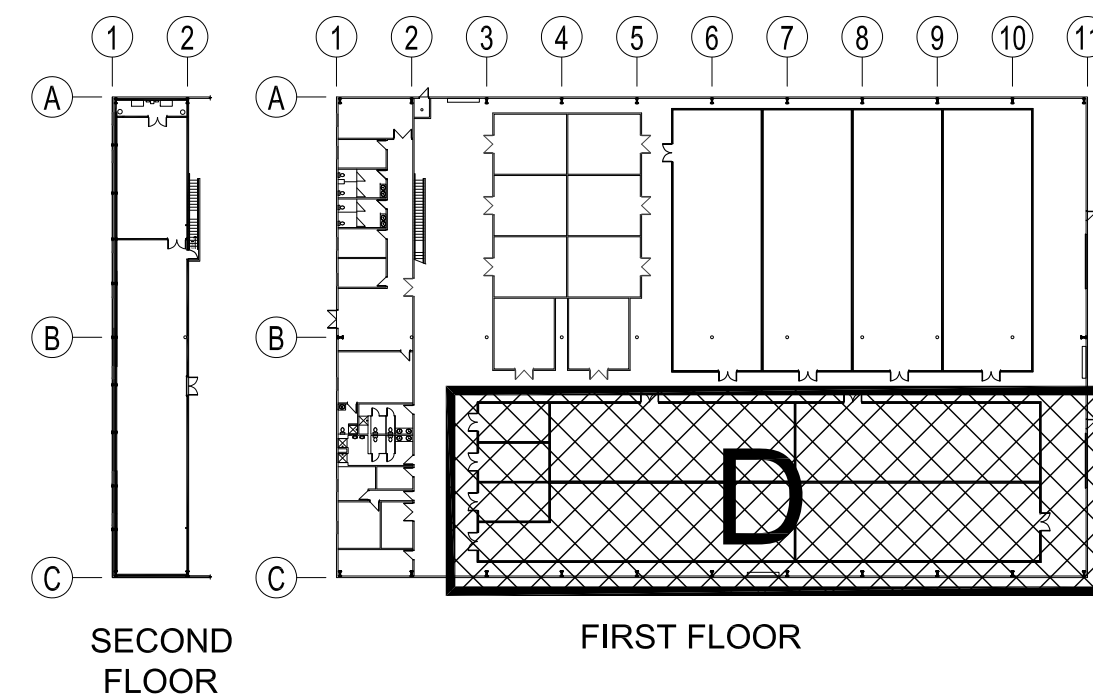
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DATE	Jan 6th, 2021
JOB. NO.	757
SHEET	

A2.0

Jan 06, 2021 - 2:43pm



A1 Reference / Dimension 1st Floor Plan Area 'D'



A2 Key Plan
Scale: N.T.S.
Plan North

Wall Types Legend

A INTERIOR 4-5/8" INSULATED PANEL WALL:
DIVERSIFIED PANEL SYSTEMS SERIES 500
PANELS SL-504, 4-5/8" x 45-3/4"

B INTERIOR 6" INSULATED PANEL WALL:
DIVERSIFIED PANEL SYSTEMS SERIES
500 PANELS SL-504, 6" x 45-3/4"

NOTE: REFER TO WALL DETAILS ON SHEET A5.0

Descriptive Keynotes

1. PROVIDE INTERIOR WALL, REFER TO WALL TYPES
LEGEND FOR TYPE OF CONSTRUCTION.
2. EXISTING EXTERIOR WALL.
3. PROVIDE DOOR, REFER TO DOOR SCHEDULE.
4. EXISTING DOOR OPENING.
5. EXISTING STEEL COLUMN.
6. EXISTING ROLL-UP DOOR.
7. PROVIDE CONDENSER, REFER TO MECHANICAL
PLANS.

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DRAWING: Reference / Dimension Floor Plan

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Camp Verde, AZ 86322

APN: 404-02-024T

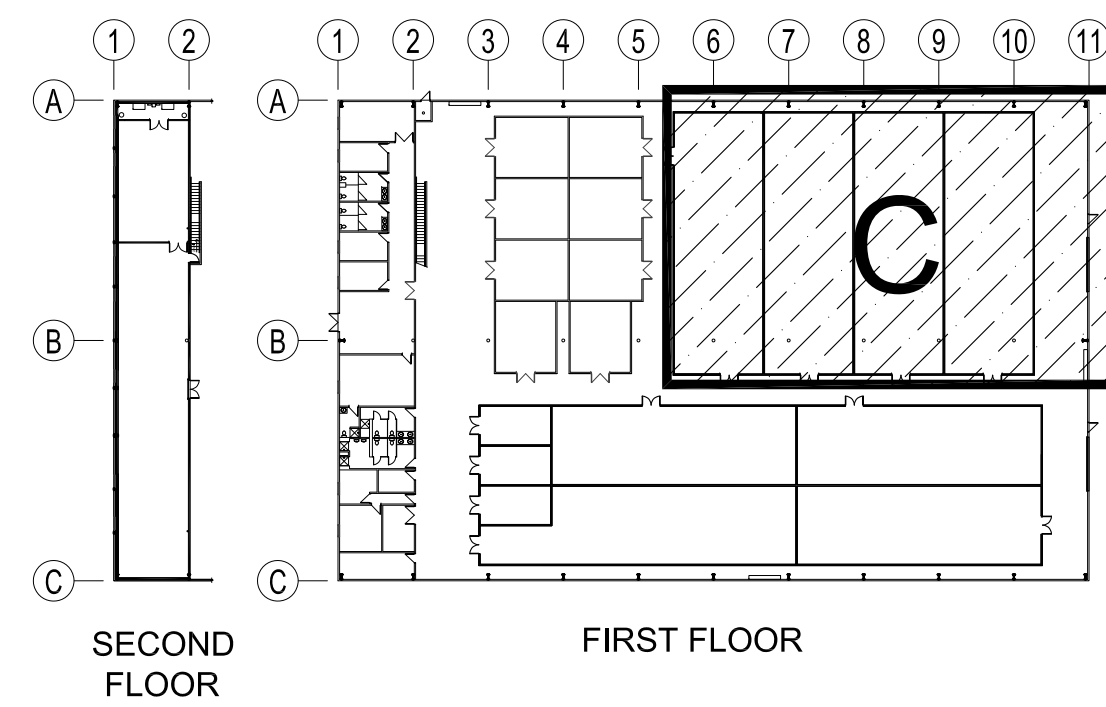
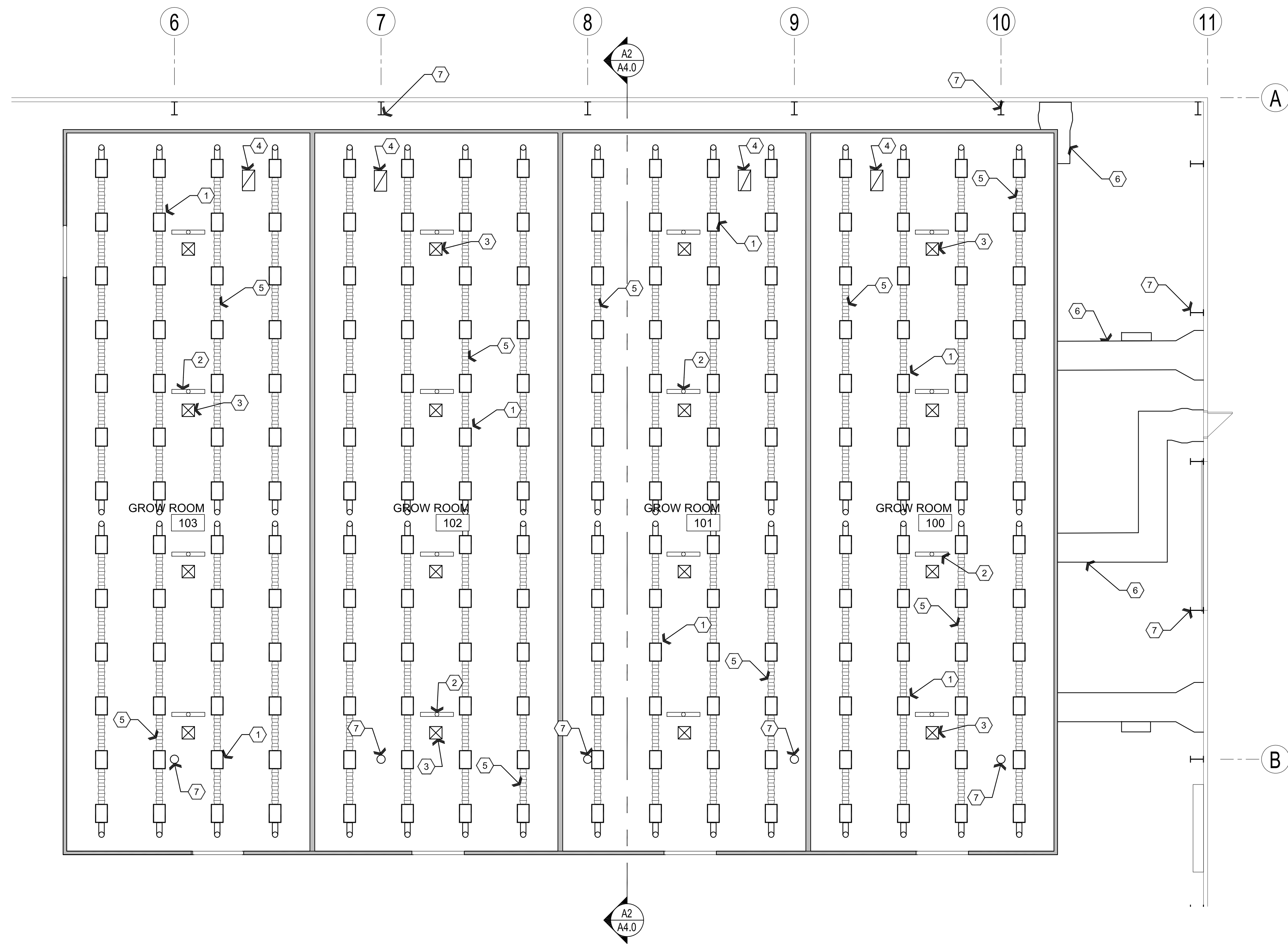
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A2.1

Jan 06, 2021 - 2:43pm

A1 Reflected Ceiling Plan Area 'C'

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



A2 Key Plan

Scale: N.T.S.



Descriptive Keynotes

1. PROVIDE GROW LIGHT, TYPICAL, REFER TO ELECTRICAL PLANS.
2. PROVIDE CONVENIENCE LIGHT, TYPICAL, REFER TO ELECTRICAL PLANS.
3. SUPPLY AIR DIFFUSER, TYPICAL, REFER TO MECHANICAL PLANS.
4. RETURN AIR REGISTER, TYPICAL, REFER TO MECHANICAL PLANS.
5. FLEX DUCT, REFER TO MECHANICAL PLANS.
6. MECHANICAL DUCTWORK, REFER TO MECHANICAL PLANS.
7. STEEL COLUMN.

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DRAWING: Reflected Ceiling Plan Area C

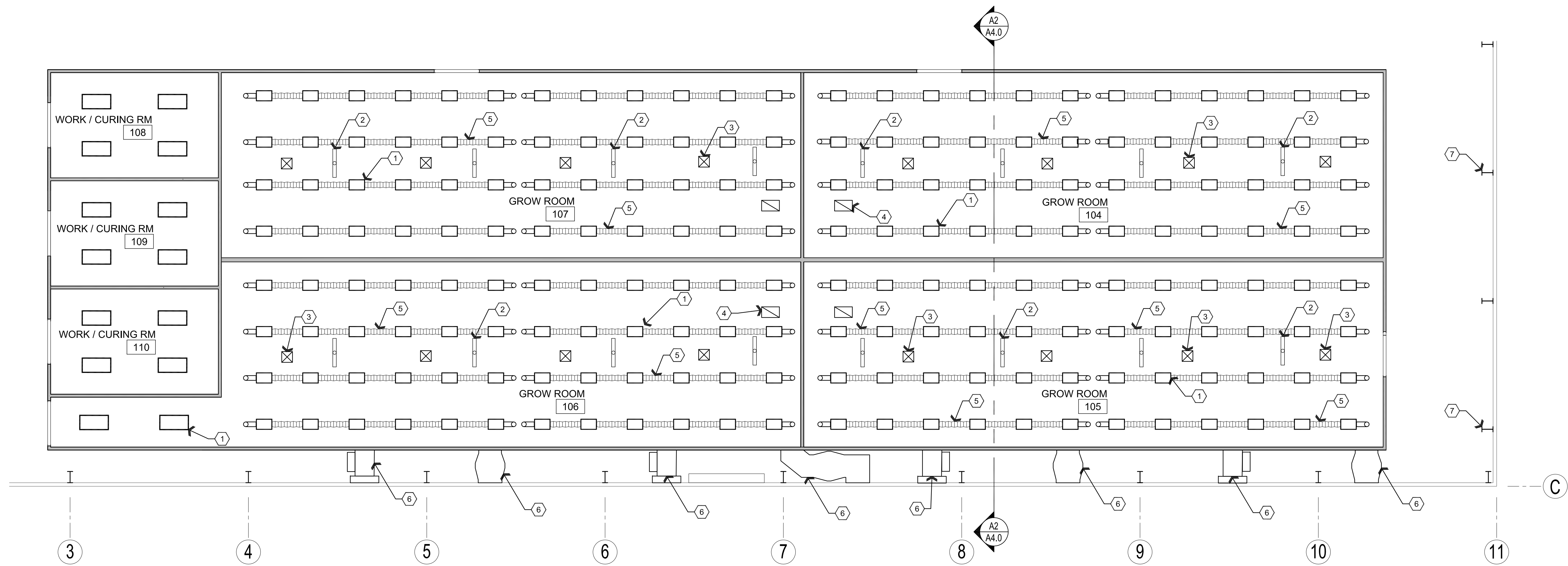
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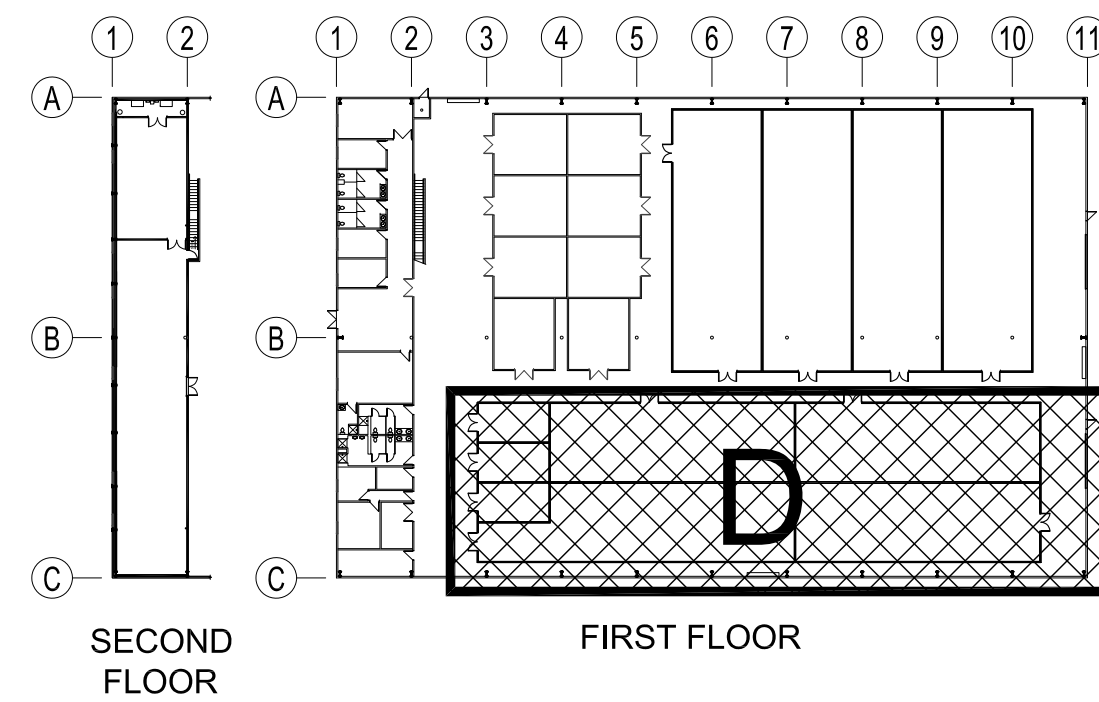
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Jan 06, 2021 - 2:43pm



A1 Reflected Ceiling Plan Area 'D'

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



A2 Key Plan

Scale: N.T.S.



Descriptive Keynotes

1. PROVIDE GROW LIGHT, TYPICAL, REFER TO ELECTRICAL PLANS.
2. PROVIDE CONVENIENCE LIGHT, TYPICAL, REFER TO ELECTRICAL PLANS.
3. SUPPLY DIFFUSER, TYPICAL, REFER TO MECHANICAL PLANS.
4. RETURN AIR REGISTER, TYPICAL, REFER TO MECHANICAL PLANS.
5. FLEX DUCT, REFER TO MECHANICAL PLANS.
6. MECHANICAL DUCTWORK, REFER TO MECHANICAL PLANS.
7. STEEL COLUMN.

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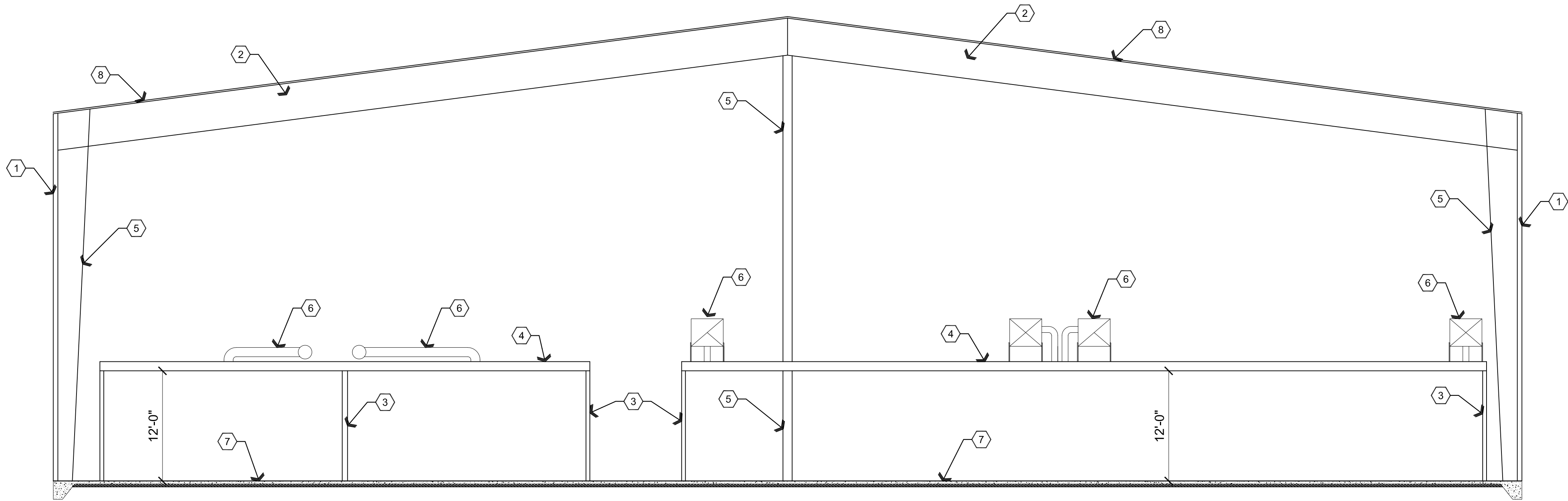
DRAWING: Reflected Ceiling Plan Area D

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A3.1



A2 Building Section

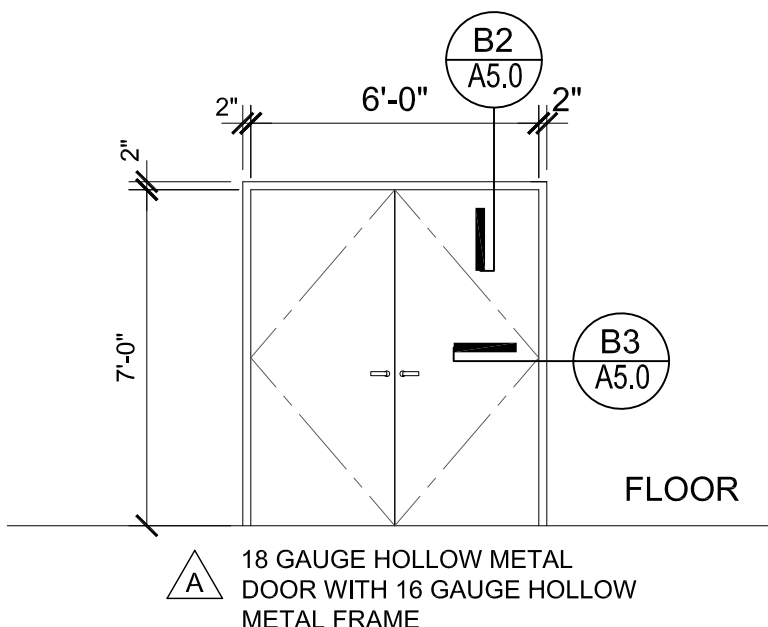
Scale: 1/8"=1'-0"

Door Schedule

NO.	ROOM NAME	SIZE	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HARDWARE TYPE
100A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
101A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
102A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
103A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
103B	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
104A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
105A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
106A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
107A	GROW ROOM	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
108A	WORK/CURING	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
109A	WORK/CURING	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01
110A	WORK/CURING	(2) 3'-0"x7'-0"	A	HM	PAINT	HM	PAINT	01

NOTES:

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



A1 Door Type

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

DOOR HARDWARE SCHEDULE

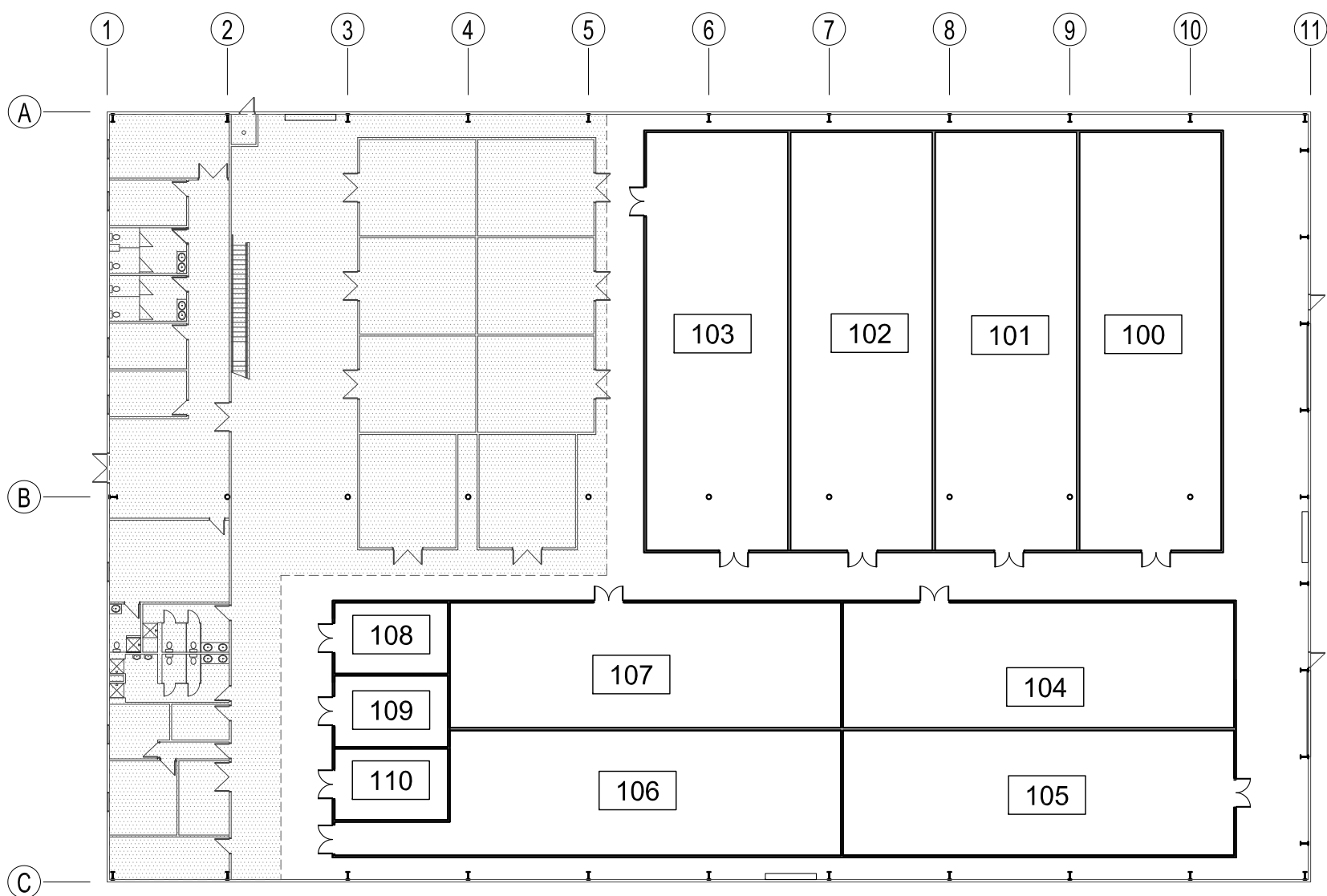
HARDWARE SET #1
PAIR DOOR
DOOR: TAG 100A, 101A, 102A, 103A, 103B, 104A, 105A, 106A, 107A, 108A, 109A, 110A

QTY	DESCRIPTION	FIN	MFG.
6	HINGE FBB179 4.5 X 4.5	626	STANLEY
1	STOREROOM ND80BD X RHO LESS SFIC	626	SCHLAGE
1	PERMANENT CORE KEYED TO SYSTEM	626	BEST
1	OVERHEAD HOLDER 454H	626	GLYNN JOHNSON
2	FLUSH BOLTS 458-12" MANUAL EXTENSION	626	IVES
2	SILENCERS SR64	GRY	IVES
2	SWEEP 315CN-36	CLR	PEMKO

Materials schedule

XX- #

CODE	MATERIAL	LOCATION	MANUFACTURER	SPECIFICATION
CP-1	INSULATED CEILING PANEL	INTERIOR CEILINGS	DIVERSIFIED PANEL SYSTEMS	SERIES 500 PANELS SL-504 12" x 45-3/4" COLOR: WHITE
FC-1	EPOXY FLOOR COATING	FLOORS IN NEW GROW ROOMS	APF POLYMER SURFACES	GRANITEX HIGH BUILD REFER TO D1/A5.0
WP-1	INSULATED WALL PANEL	INTERIOR WALLS	DIVERSIFIED PANEL SYSTEMS	SERIES 500 PANELS SL-504, 4-5/8" OR 6" x 45-3/4" (x 12'-0" HIGH) COLOR: WHITE



B1 Room Finish Plan

Scale: 1/32"=1'-0"



Descriptive Keynotes

- EXISTING EXTERIOR METAL WALL.
- EXISTING STEEL BEAM.
- PROVIDE INTERIOR WALL, REFER TO WALL TYPES LEGEND AND MATERIALS SCHEDULE. [WP-1]
- PROVIDE CEILING PANELS, REFER TO MATERIALS SCHEDULE. [CP-1]
- EXISTING COLUMN.
- MECHANICAL DUCTWORK, REFER TO MECHANICAL PLANS.
- EXISTING CONCRETE SLAB, REFER TO ROOM FINISH SCHEDULE.
- EXISTING METAL ROOF.

Room Finish Schedule

NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	HEIGHT
100	GROW ROOM	F1	B1	W1	C1	12'-0"
101	GROW ROOM	F1	B1	W1	C1	12'-0"
102	GROW ROOM	F1	B1	W1	C1	12'-0"
103	GROW ROOM	F1	B1	W1	C1	12'-0"
104	GROW ROOM	F1	B1	W1	C1	12'-0"
105	GROW ROOM	F1	B1	W1	C1	12'-0"
106	GROW ROOM	F1	B1	W1	C1	12'-0"
107	GROW ROOM	F1	B1	W1	C1	12'-0"
108	WORK / CURING RM	F1	B1	W1	C1	12'-0"
109	WORK / CURING RM	F1	B1	W1	C1	12'-0"
110	WORK / CURING RM	F1	B1	W1	C1	12'-0"

FLOOR:

F1 EPOXY FLOOR COATING OVER CONCRETE [FC-1]

WALLS:

W1 WALL PANELS [WP-1]

BASE:

B1 ANGLE / SEALANT

CEILING:

C1 CEILING PANELS [CP-1]

REVISIONS

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ARCHITECTURE & PLANNING

DRAWING: Building Sections, Door Schedule, Materials Schedule and Room Finish Plan

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T

DRAWN BY
L.O.

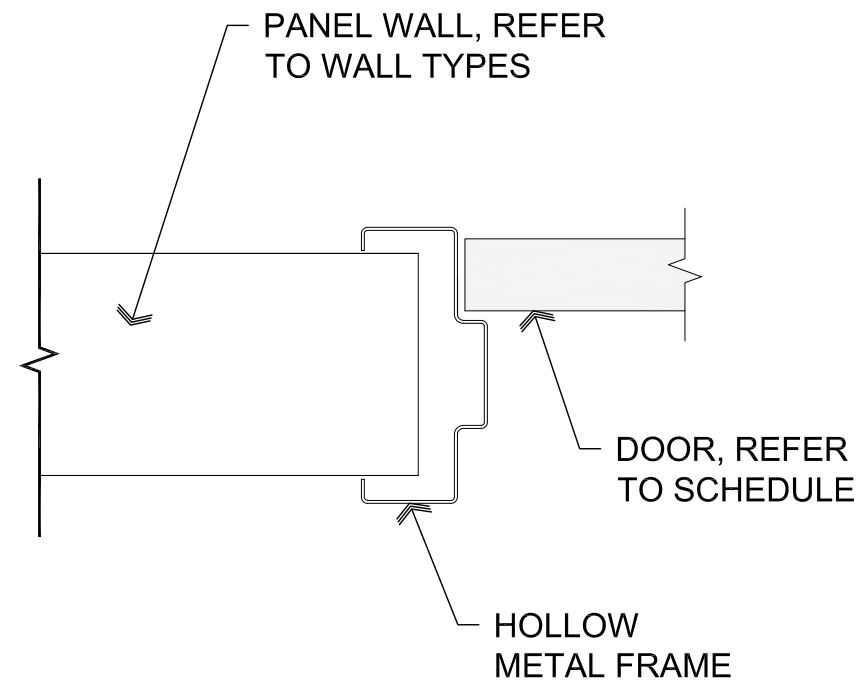
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DATE
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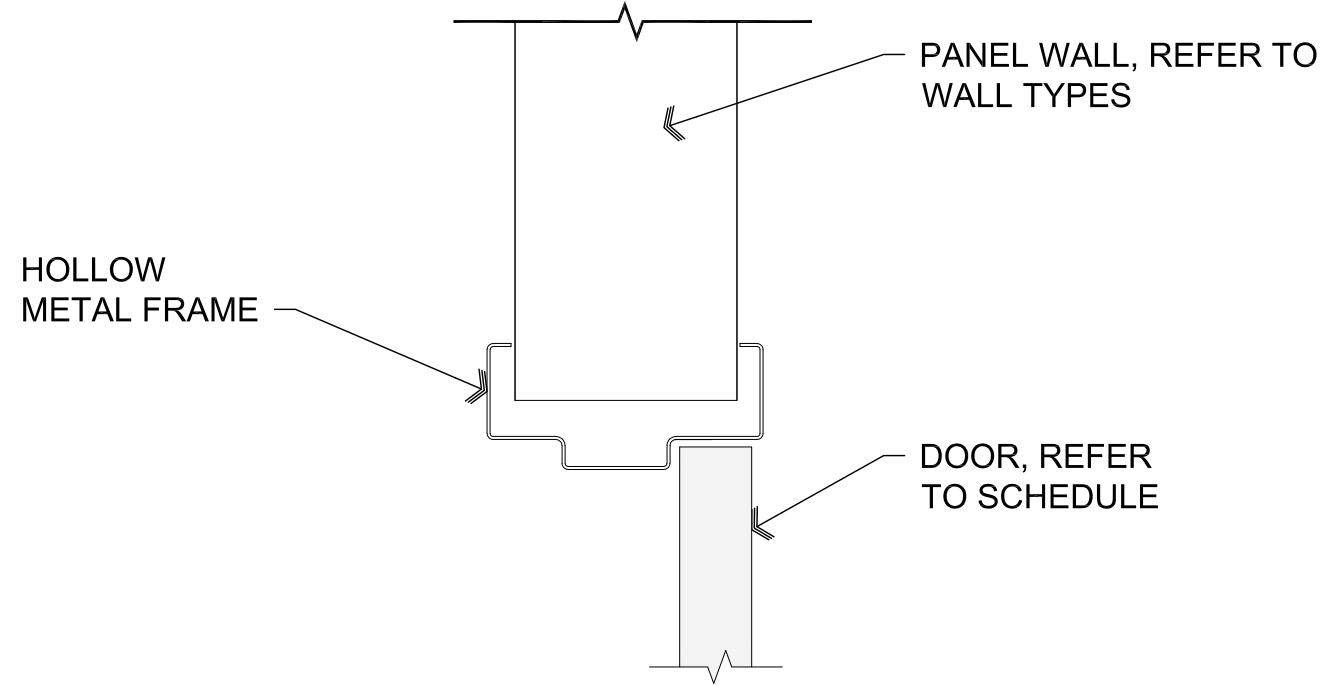
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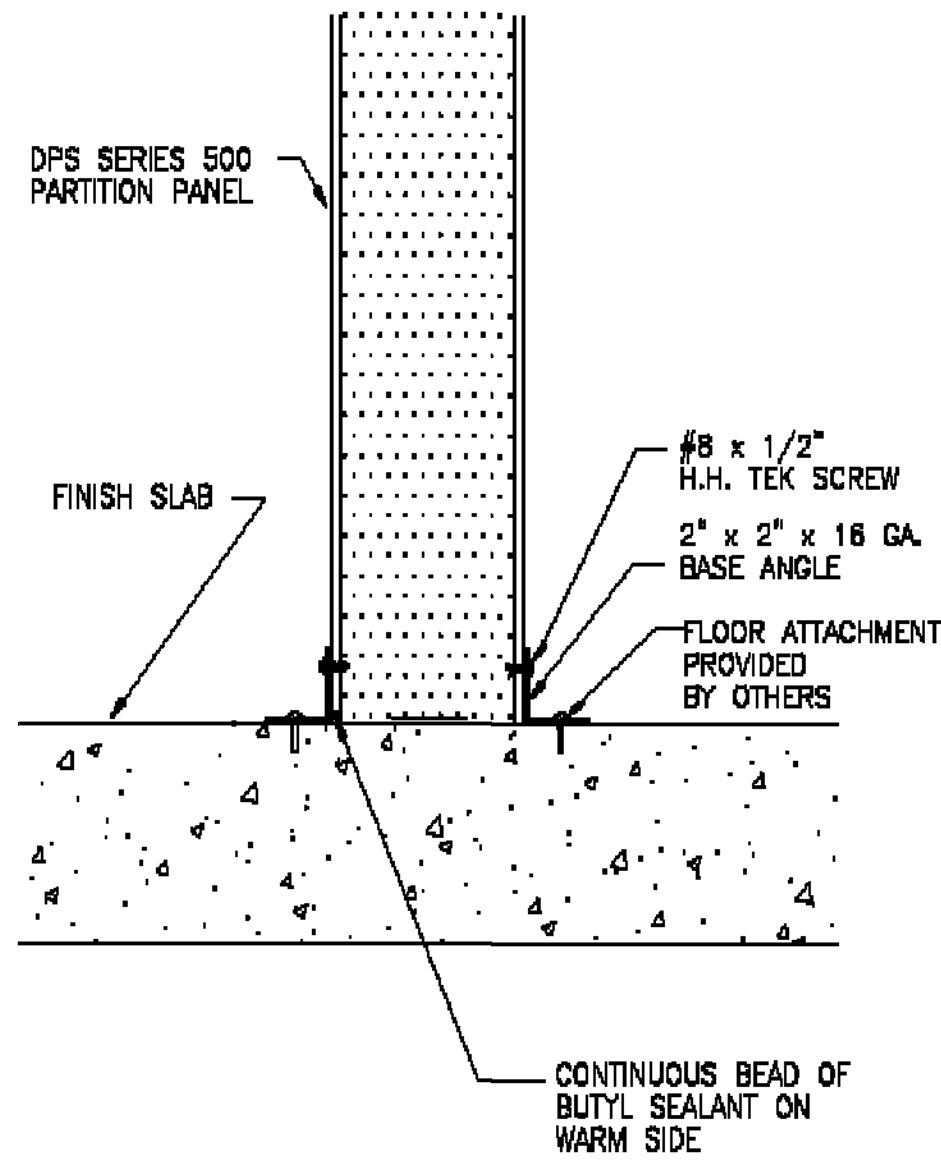
B3 Door Jamb

SCALE: 3" = 1'-0"



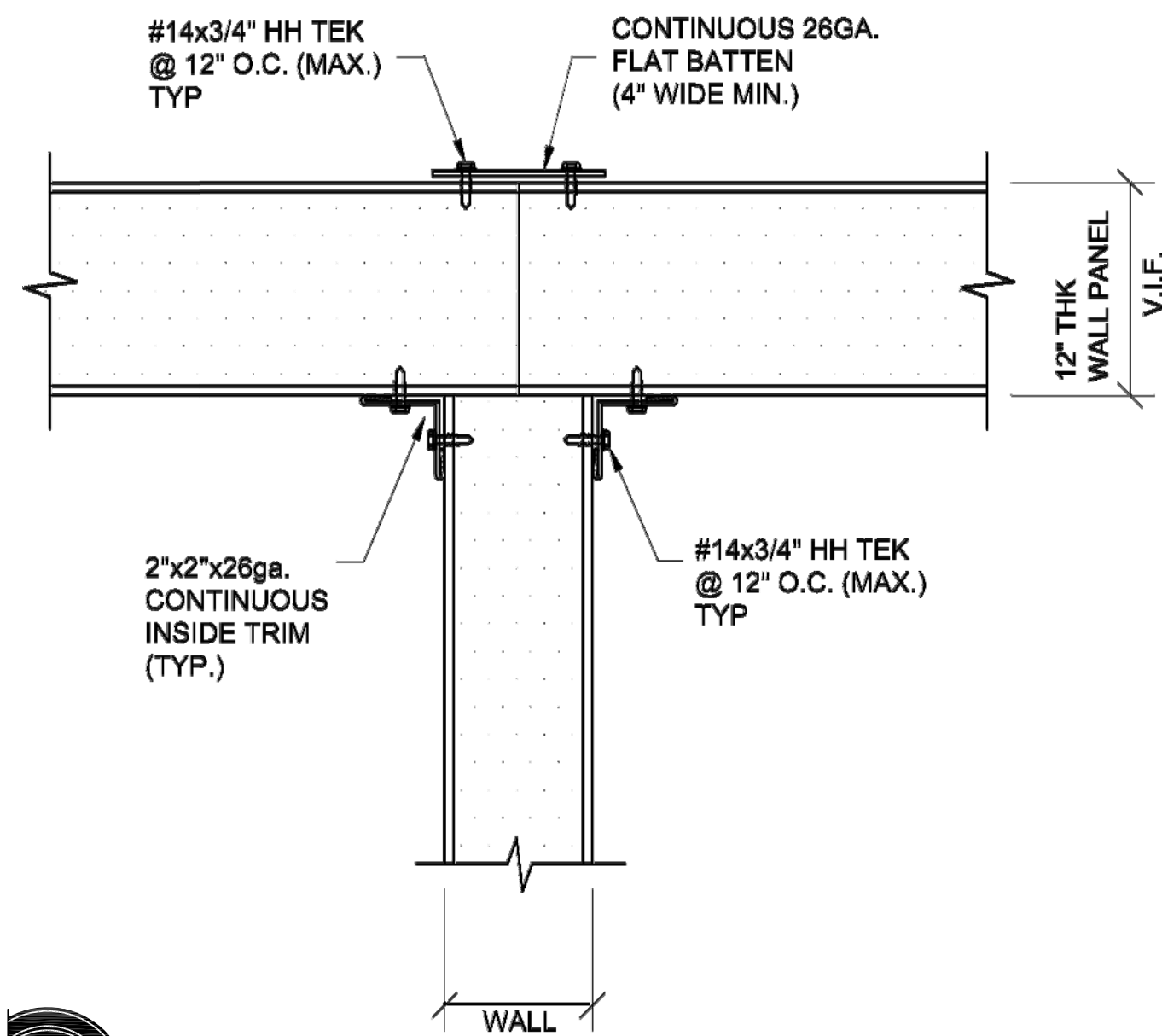
B2 Door Head

SCALE: 3" = 1'-0"



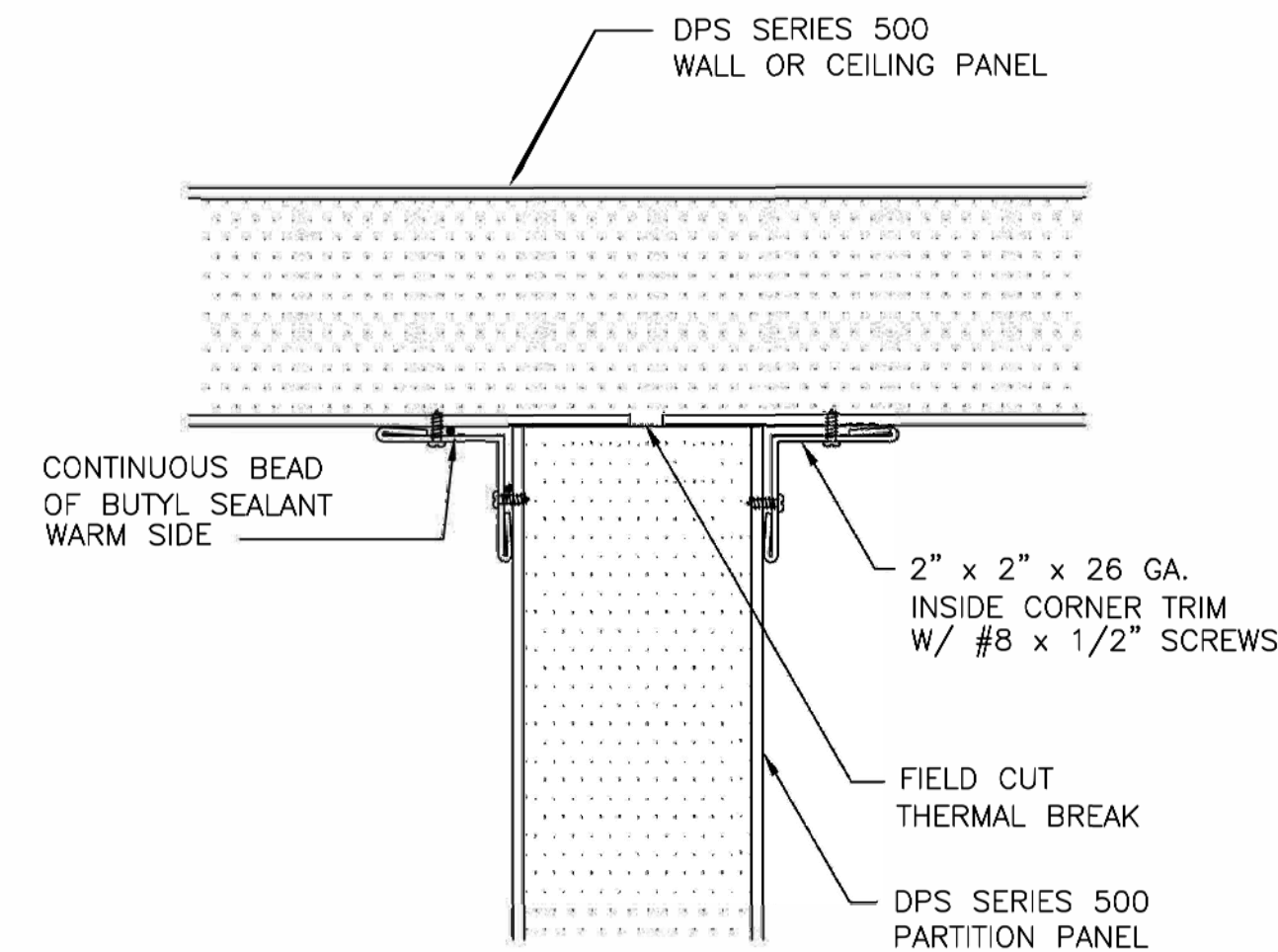
C3 Base Detail

Scale: n.t.s.



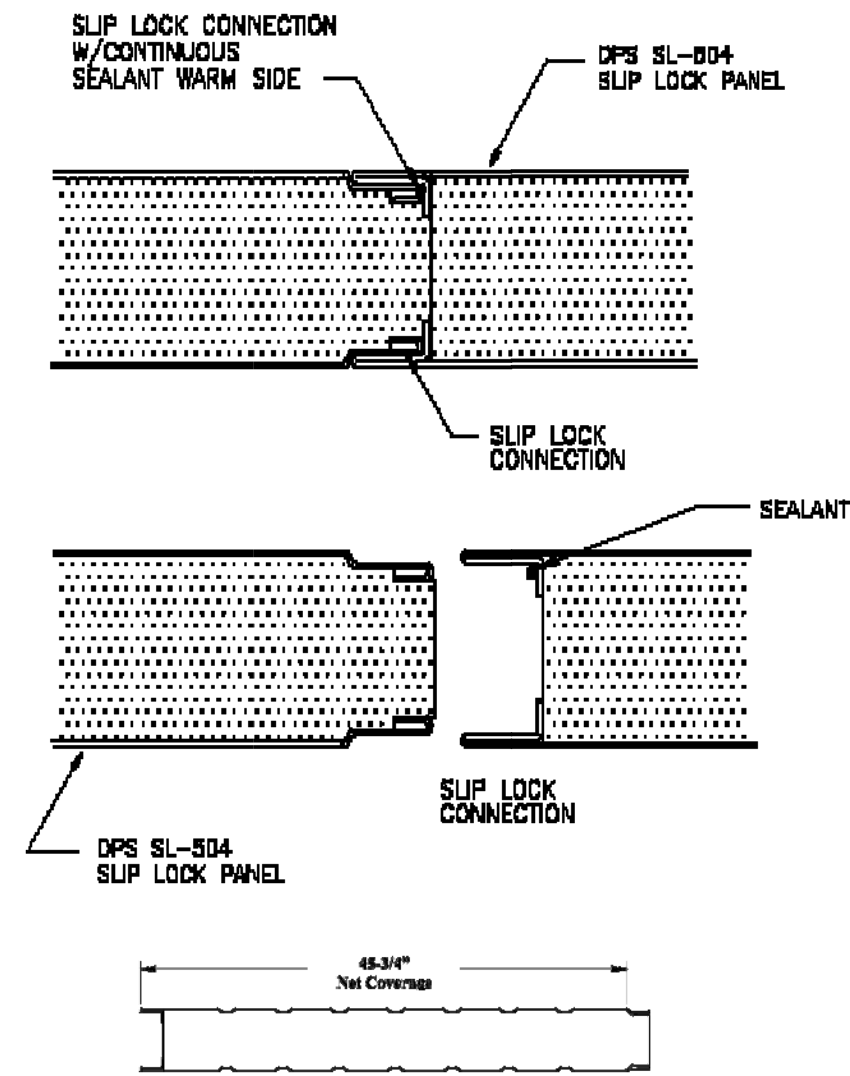
C2 Ceiling Panel to Ceiling Panel

Scale: n.t.s.



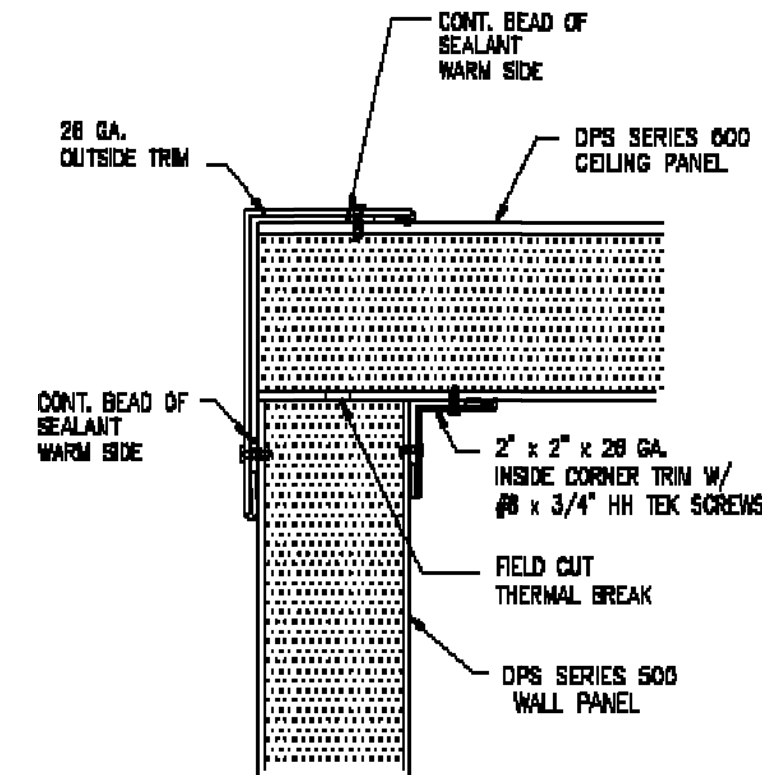
C1 Partition Corner Detail

Scale: n.t.s.



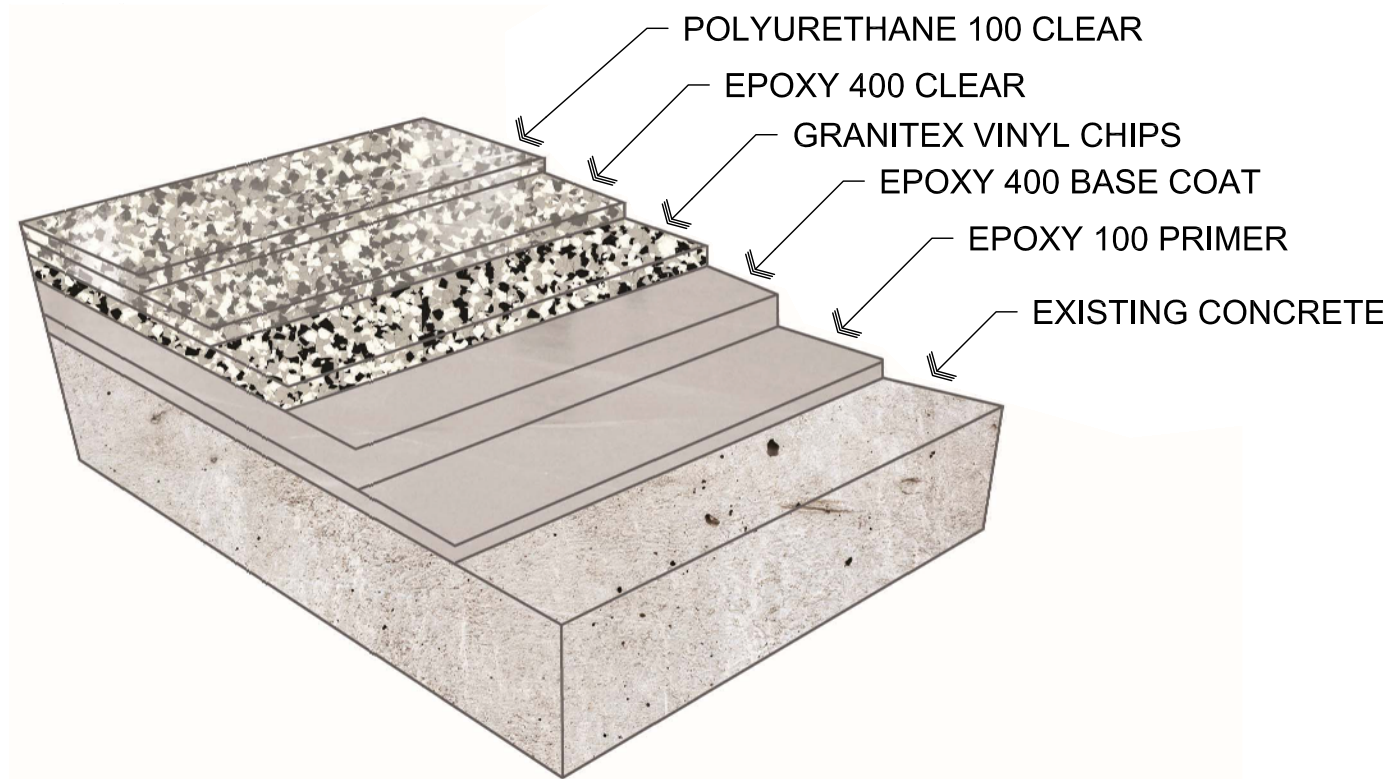
D3 Slip Lock Connection

Scale: n.t.s.



D2 Wall / Ceiling Corner Detail

Scale: n.t.s.

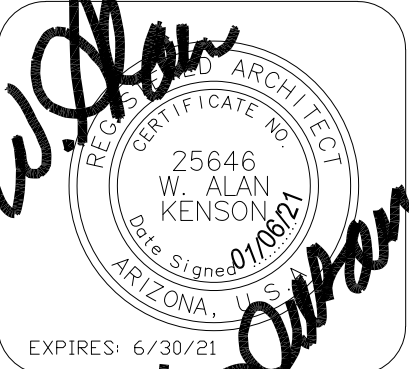


D1 Floor Finish Detail

Scale: n.t.s.

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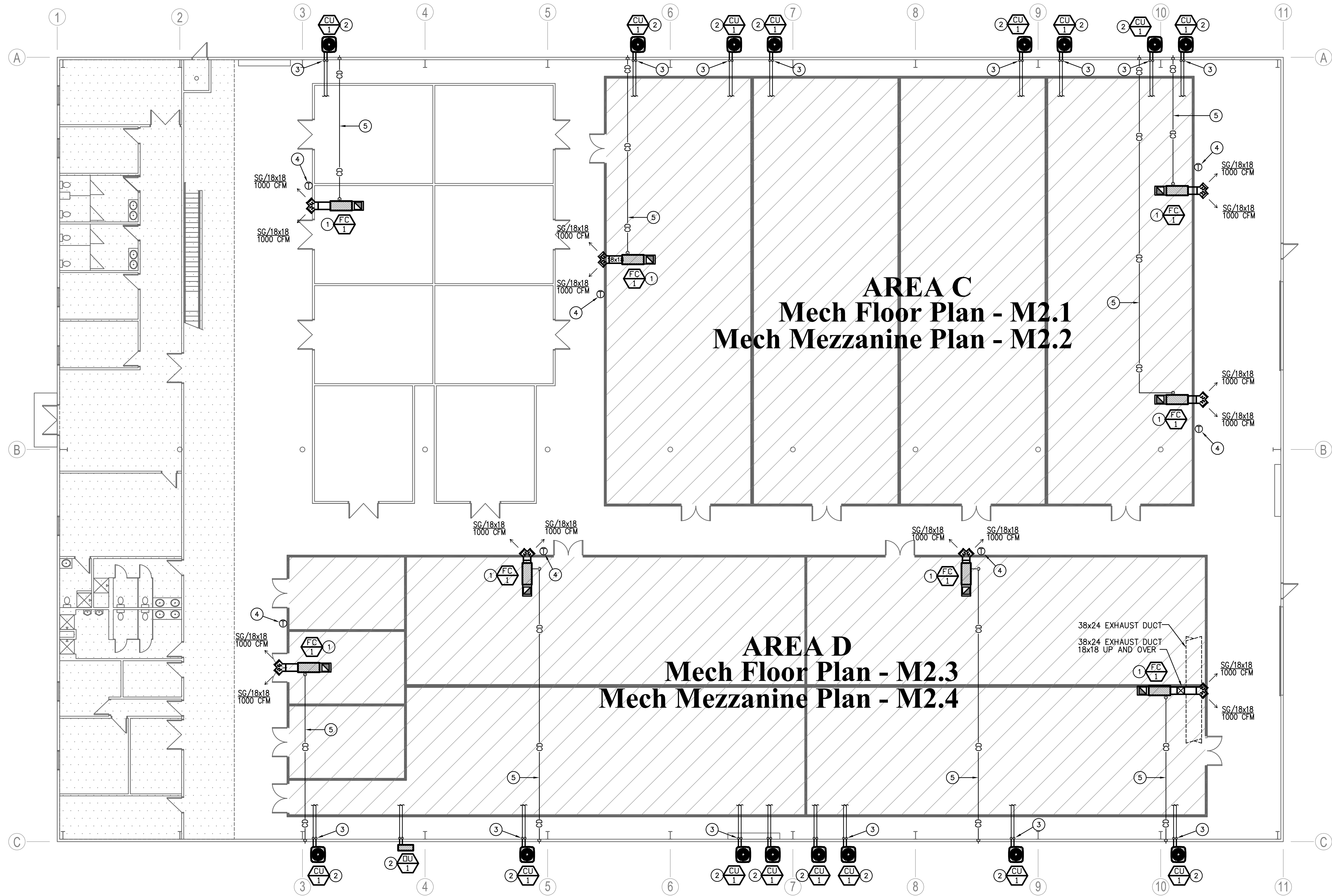
PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322
APN: 404-02-024T

DRAWING: Details

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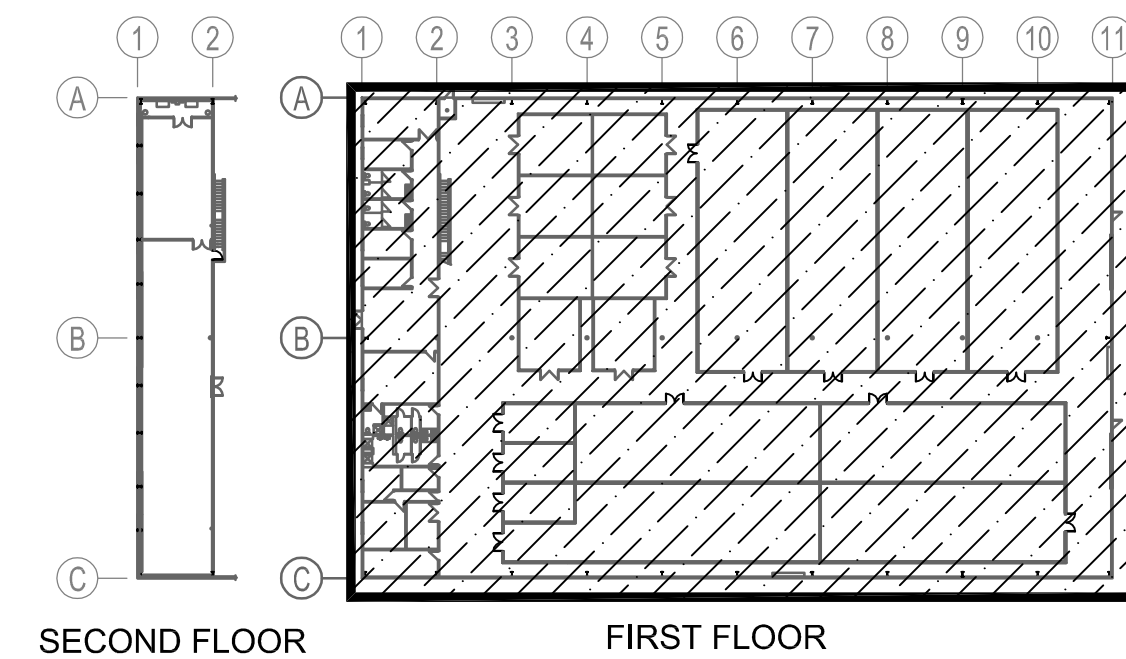
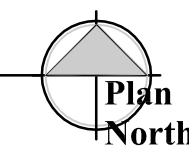
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Oct 07, 2020 - 3:51pm



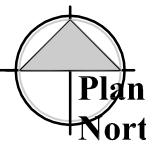
M2.0 Overall Mechanical Floor Plan

Scale: 3/32"=1'-0"



M2.0 Key Plan

Scale: N.T.S.

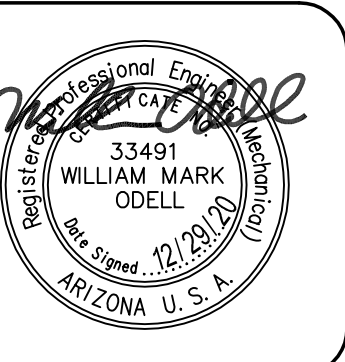


KEYNOTES

- HORIZONTAL FAN COIL ON TOP OF GROW ROOM CEILING. PROVIDE WITH RETURN PLENUM WITH 18x18 RETURN OPENING ON TOP OF PLENUM. COORDINATE LOCATION OF UNIT WITH ARCHITECT. G.C. PROVIDE CLEARANCES AROUND FAN COIL PER MANUFACTURER'S RECOMMENDATIONS.
- OUTDOOR CONDENSING UNIT ON PRE-MANUFACTURED PAD. PAD SHALL BE A MINIMUM OF 4" LARGER ON ALL SIDES OF UNIT. DO NOT PLACE CONDENSING UNIT UNDER ROOF DRIP EDGE OR VALLEYS. COORDINATE FINAL LOCATION WITH ARCHITECT. PROVIDE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.
- ROUTE REFRIGERANT PIPING THROUGH AND UP ALONG INSIDE OF WALL AND TO CORRESPONDING FAN COIL UNIT. SIZE, INSULATED AND INSTALL PIPING PER MANUFACTURER'S RECOMMENDATIONS. SUPPORT PIPING IN A WORKMAN LIKE MANNER.
- PROVIDE HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
- EXTEND NEW 3/4" TYPE 'M' COPPER CONDENSATE DRAIN PIPING FROM UNIT CONNECTION AND ROUTE TO EXTERIOR PLANTER AREA. SLOPE ALL DRAIN PIPING AT A MINIMUM 1/8" PER FOOT TOWARD DISCHARGE LOCATION. SUPPORT PIPING IN A WORKMAN LIKE MANNER.

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ARCHITECTURE & PLANNING

DRAWING: Mechanical Floor Plan

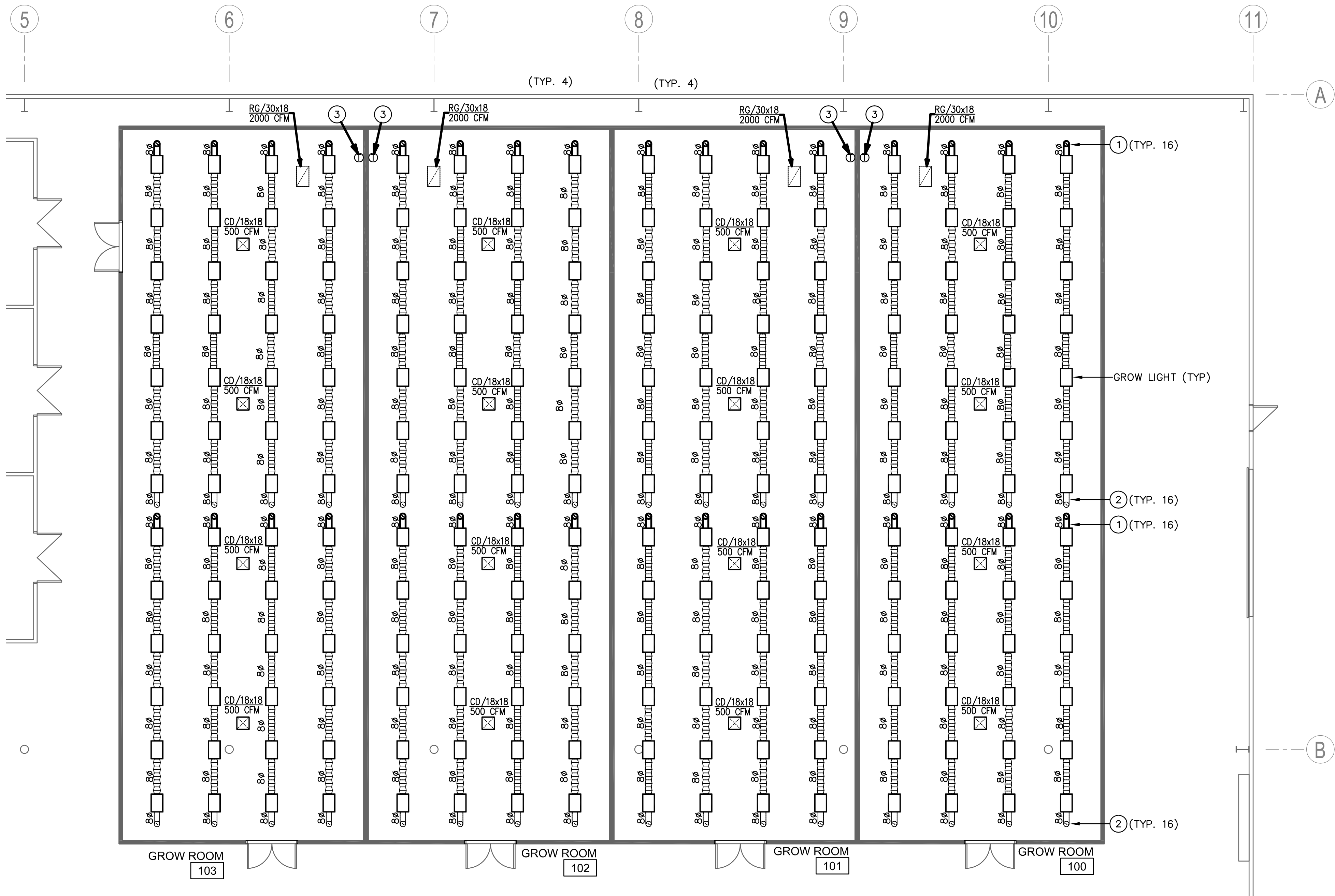
PROJECT: Sonoran Holdings LLC, Phase II
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APN: 404-02-024T

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M2.0

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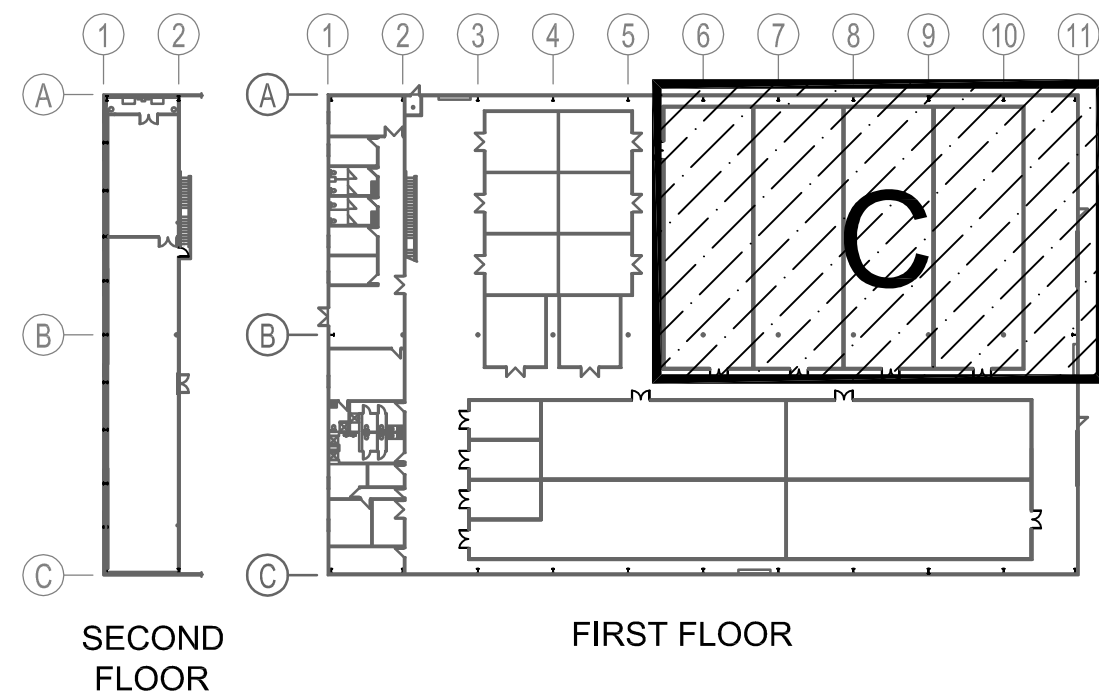
M1 Mechanical 1st Floor Plan Area 'C'

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



KEYNOTES

- 1 8" LIGHT EXHAUST INTAKE DUCT DOWN FROM ABOVE AND CONNECTED TO LIGHT EXHAUST HOUSING.
- 2 8" LIGHT EXHAUST DISCHARGE DUCT UP THROUGH CEILING.
- 3 PROVIDE HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.



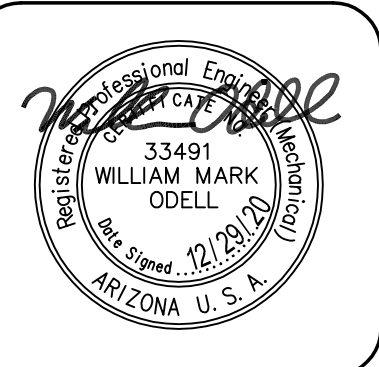
M2 Key Plan

Scale: N.T.S.



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ARCHITECTURE & PLANNING

DRAWING: Mechanical Floor Plan - Area C

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T

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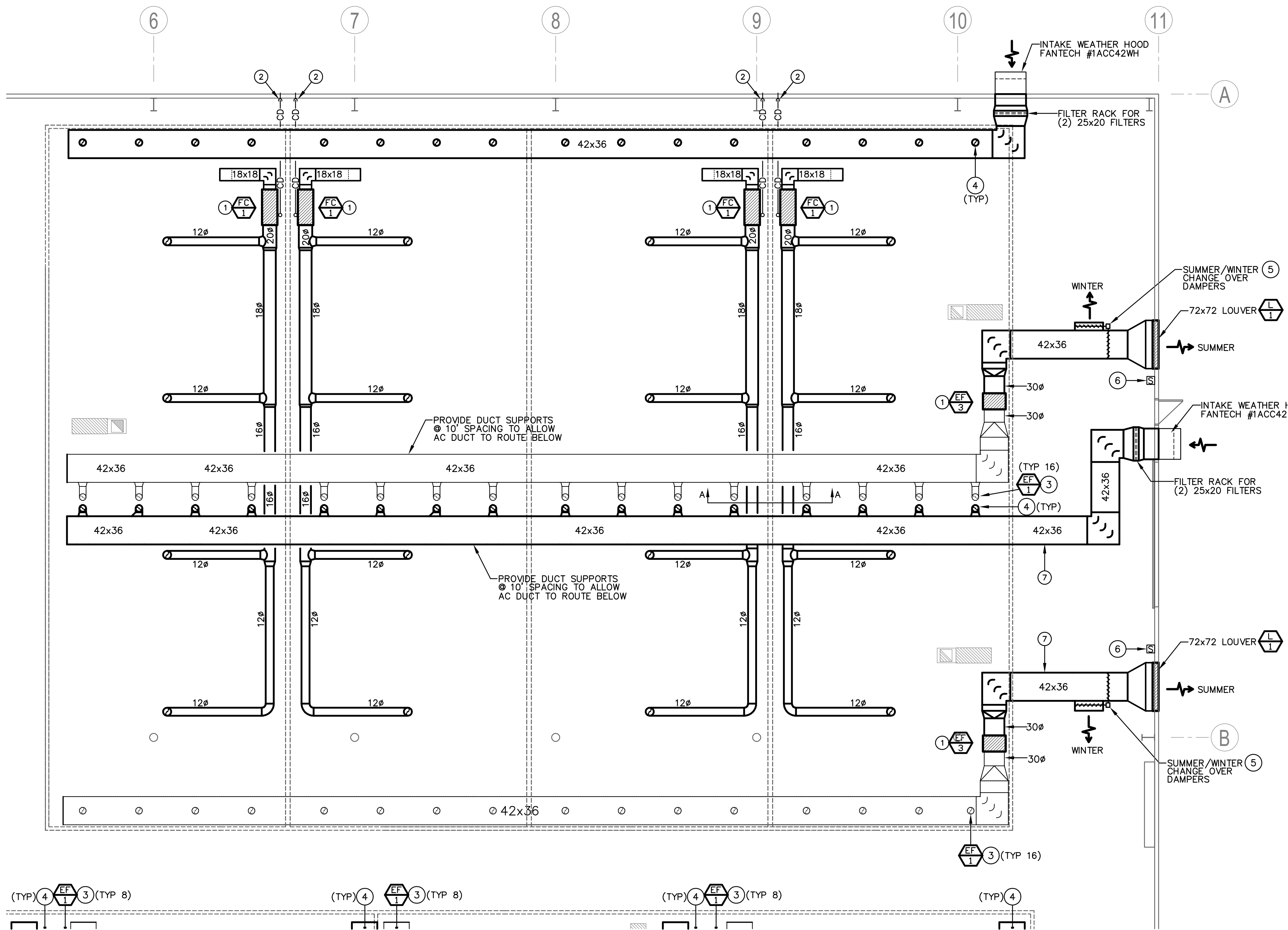
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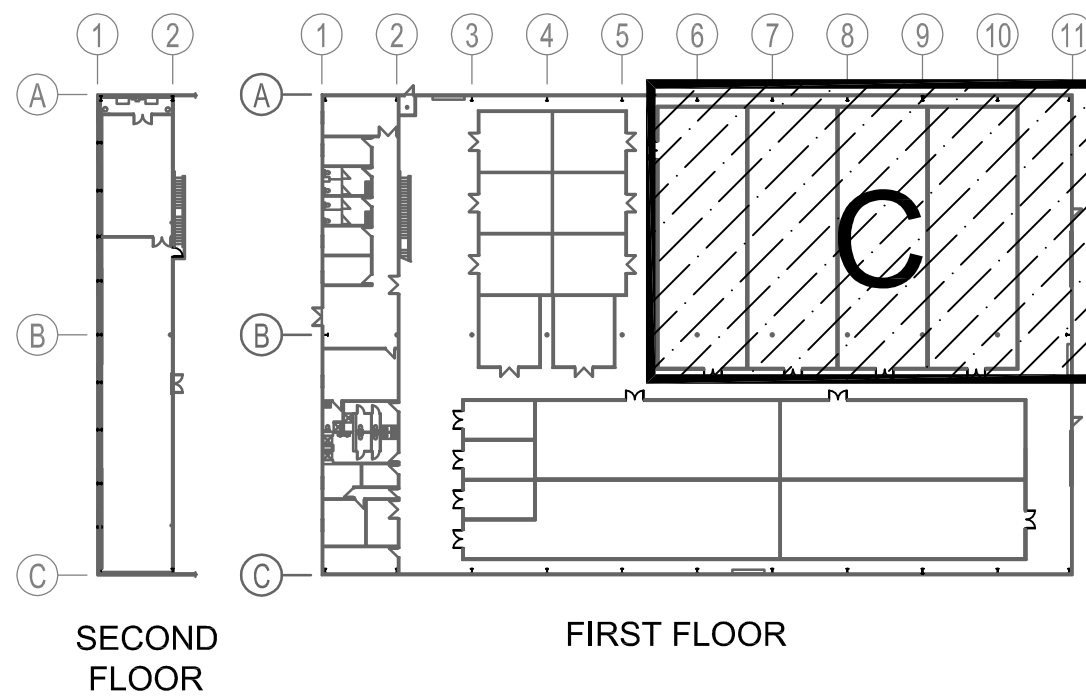
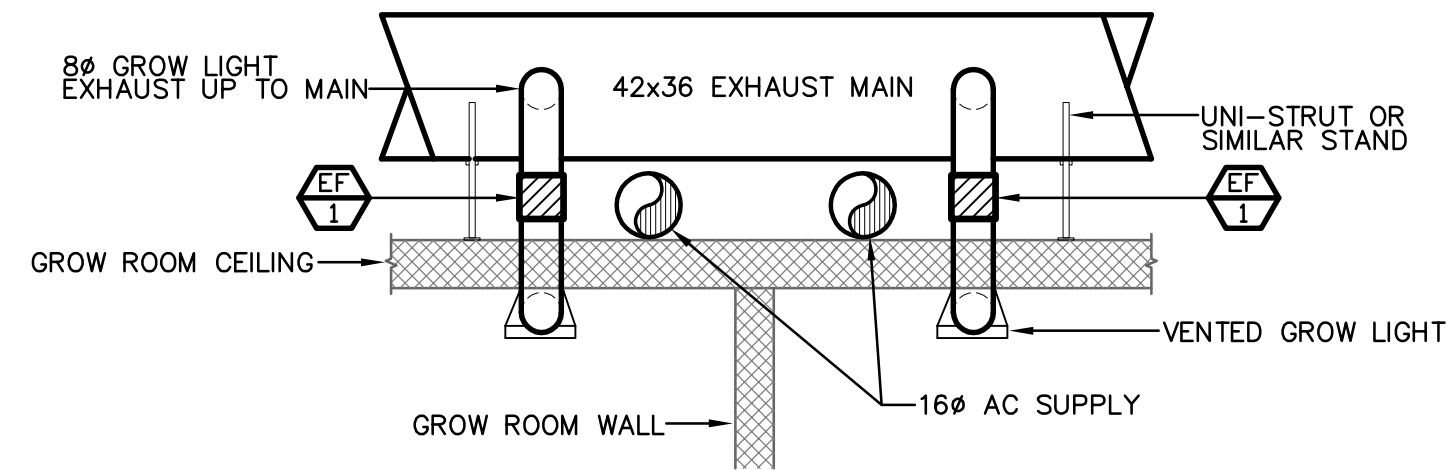
Mechanical Mezzanine Plan Area 'C'

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



Section A-A

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



Key Plan

Scale: N.T.S.



KEYNOTES

- 1 HORIZONTAL FAN COIL ON TOP OF GROW ROOM CEILING. EXTEND SUPPLY AND RETURN DUCT ABOVE CEILING WITH CORRESPONDING BRANCH DROPS DOWN TO SUPPLY AND RETURN GRILLES. COORDINATE LOCATION OF UNIT WITH ARCHITECT, G.C. PROVIDE CLEARANCES AROUND FAN COIL PER MANUFACTURER'S RECOMMENDATIONS.
- 2 EXTEND NEW 3/4" TYPE 'M' COPPER CONDENSATE DRAIN PIPING FROM UNIT CONNECTION AND ROUTE TO EXTERIOR. SLOPE ALL DRAIN PIPING AT A MINIMUM 1/8" PER FOOT TOWARD DISCHARGE LOCATION.
- 3 8" EXHAUST DUCT UP THROUGH CEILING WITH INLINE EXHAUST FAN (EF-1) IN VERTICAL, AND CONNECTED TO 42x36 EXHAUST MAIN.
- 4 EXTEND 8" LIGHT INTAKE DUCT FROM 42x36 SUPPLY MAIN DOWN THROUGH CEILING AND CONNECT TO LIGHT VENTILATION HOUSING.
- 5 MOTORIZED SUMMER/WINTER BYPASS DAMPER ASSEMBLY. DAMPERS TO BE "RUSKIN" #CD35 WITH "BELIMO" #AFBUP, 120V ACTUATOR WITH COUPLING BETWEEN DAMPERS. DAMPERS SHALL FAIL IN "SUMMER" POSITION. (EXHAUST TO OUTDOORS).
- 6 SUMMER/WINTER LINE VOLTAGE BYPASS SWITCH. "ON"=WINTER - AIR BYPASSED INDOORS, "OFF"=SUMMER - AIR TO EXTERIOR.
- 7 MECHANICAL CONTRACTOR TO SUPPORT DUCTWORK IN A WORKMAN LIKE MANNER. CONFIRM SUPPORT METHOD WITH ARCHITECT.

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ARCHITECTURE & PLANNING

DRAWING: Mechanical Mezzanine Plan - Area C

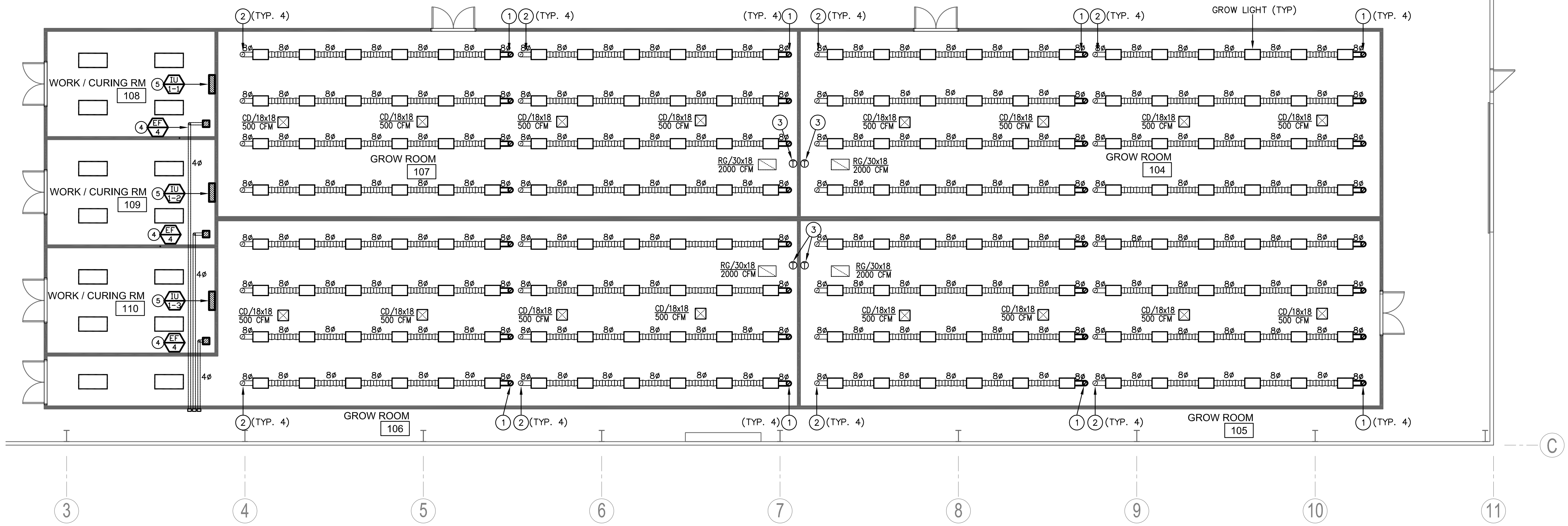
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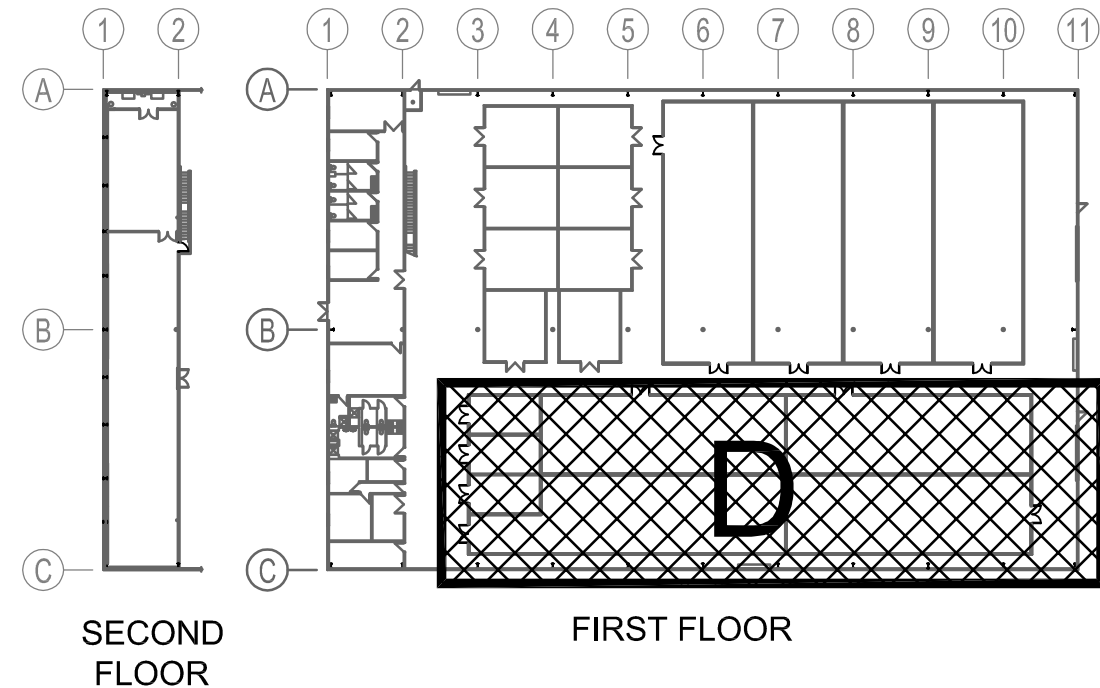
M2.2

Oct 07, 2020 - 3:51pm



Mechanical 1st Floor Plan Area 'D'

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



Key Plan

Scale: N.T.S.



KEYNOTES

- 8" LIGHT EXHAUST INTAKE DUCT DOWN FROM ABOVE AND CONNECTED TO LIGHT EXHAUST HOUSING.
- 8" LIGHT EXHAUST DISCHARGE DUCT UP THROUGH CEILING.
- PROVIDE HEATING/COOLING PROGRAMMABLE THERMOSTAT ON WALL AT 48" ABOVE FINISHED FLOOR. VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT/OWNER.
- CEILING MOUNTED EXHAUST FAN WITH BACKDRAFT DAMPER. TRANSITION EXHAUST DUCT FROM UNIT DISCHARGE AND ROUTE AS SHOWN TO MANUFACTURER'S WALL DISCHARGE CAP. FAN SHALL OPERATE VIA WALL SWITCH.
- MINI-SPLIT INDOOR UNIT MOUNTED ON WALL AT 7'-0" A.F.F. INSTALLED PER MANUFACTURER'S INSTRUCTIONS. PROVIDE WITH "LITTLE GIANT" #C-400 CONDENSATE PUMP TO LIFT CONDENSATE ABOVE CEILING AND THEN ROUTED IN GRAVITY DRAIN TO EXTERIOR.

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ARCHITECTURE & PLANNING

DRAWING: Mechanical Floor Plan - Area D

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322
APN: 404-02-024T

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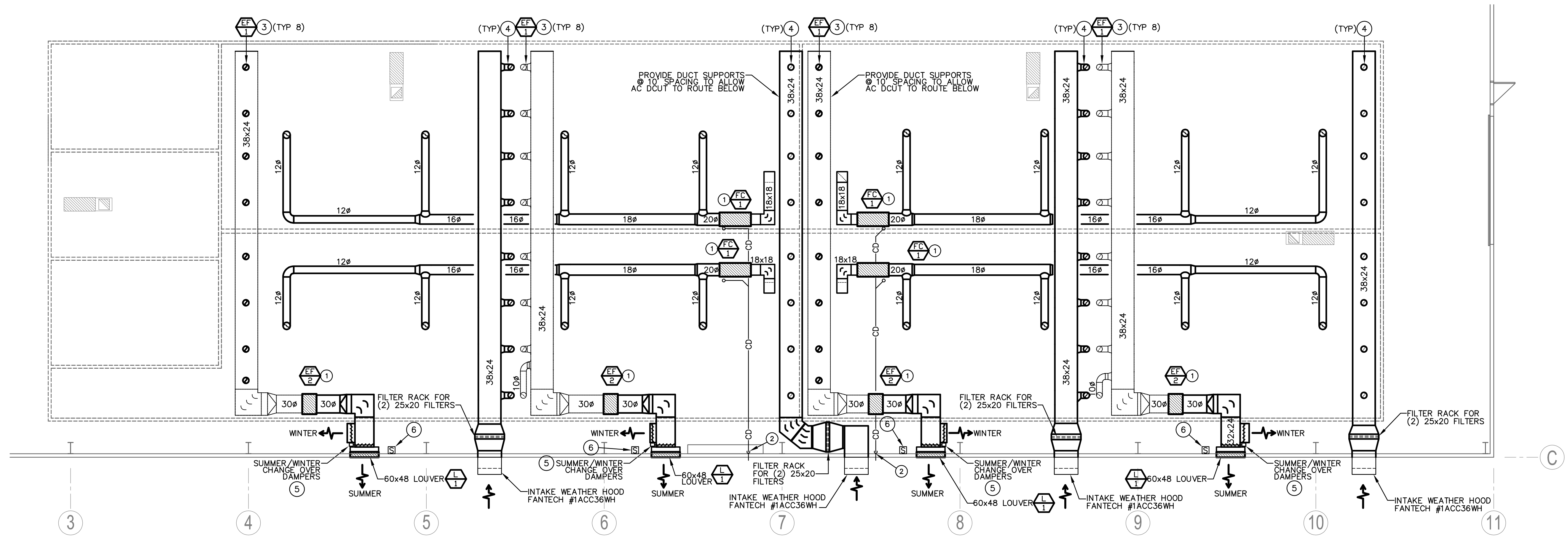
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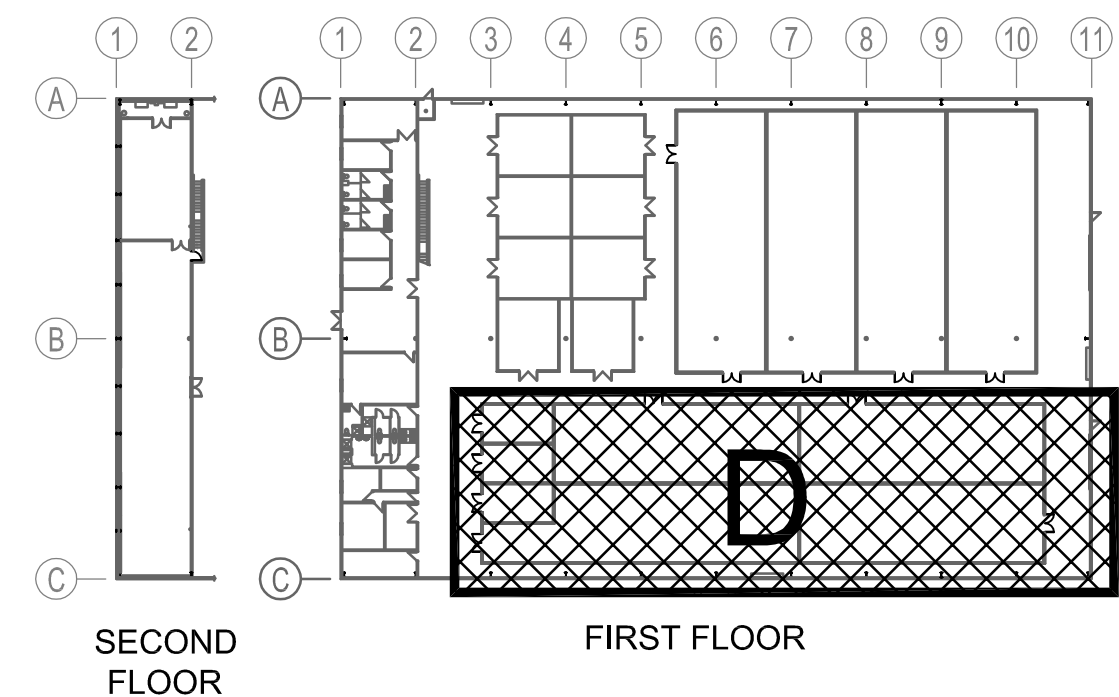
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M2.3

Oct 07, 2020 - 3:51pm



M Mechanical Mezzanine Plan Area 'D'



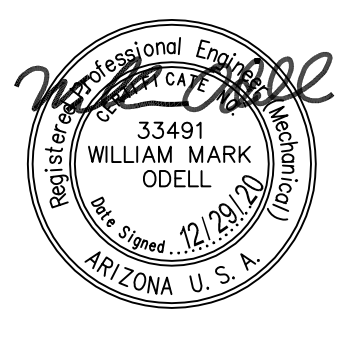
M2.4 Key Plan

Scale: N.T.S.



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ARCHITECTURE & PLANNING

DRAWING: Mechanical Mezzanine Plan - Area D

PROJECT: Sonoran Holdings LLC, Phase II

1581 S. Boyles Way
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M2.4

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE																										
FAN COIL UNIT									CONDENSING UNIT (100° AMBIENT)																	
EQUIP. NO.	MANUFACTURER	MODEL NO.	NOMINAL TONS	CFM	OA CFM	EXT. S.P. IN WG	FAN H.P.	VOLTS/ PHASE	WEIGHT LBS	EQUIP. NO.	MANUFACTURER	MODEL NO.	MAX. AMPS (MCA)	MAX. FUSE (AMPS)	VOLTS/ PHASE	COOLING CAPACITY		ENT. AIR TEMP		SEER	EER	HEATING CAPACITY 70 (F) EAT 17 (F) AMB.	HSPF	COP	WEIGHT LBS	REMARKS
																TOTAL MBH	SENS. MBH	DB (F)	WB (F)							
FC-1	CARRIER	FX4DN061	5	2000	0	0.6	3/4	208/1	201	CU-1	CARRIER	25HCE460	10.5	15	460/3	54.3	43.3	80	67	14	N/A	30.53	8.2	N/A	212	SEE NOTES 1-6
① INSTALL UNIT PER MANUFACTURER'S WRITTEN DIRECTIONS. SLEEVE REFRIGERANT PIPING PENETRATIONS THRU WALL AND SEAL WATERTIGHT AND PROVIDE ESCUTCHEONS.									③ FAN COIL SHALL BE HORIZONTAL TYPE, PROVIDE & INSTALL BOTTOM MOUNTED FILTER RACK AND PROVIDE WITH 1" FARR 30/30 PLEATED MEDIA FILTERS (1 REQUIRED).									⑤ PROVIDE INDOOR FAN COIL UNIT COMPLETE WITH MOTOR STARTER.								
② UNIT SHALL BE PROVIDED WITH PROGRAMMABLE THERMOSTAT.									④ ALL NECESSARY OVERLOADS AND CONTROL COMPONENTS.									⑥ PROVIDE LOW AMBIENT KIT FOR OPERATION DOWN TO 0°F.								

MINI SPLIT SCHEDULE																					
INDOOR FAN COIL UNIT														CONDENSING UNIT							
EQUIP. NO.	SERVES	MANUFACTURER	MODEL NO.	TYPE	DESIGN CFM	MAX ESP	RATED TOTAL CAPACITY BTUH	RATED SENSIBLE CAPACITY BTUH	RATED HEATING CAPACITY BTUH	VOLTS/ PHASE	AMPS ④	WEIGHT LBS.	DIMENSIONS (APPROX)	EQUIP. NO.	MANUFACTURER	MODEL NO.	ELECTRIC			WEIGHT (LBS)	REMARKS
																	VOLTS/ PHASE	MCA	MOCp		
IU-1-1	WORK/CURING 108	DAIKIN	FXAQ12PVJU	WALL MOUNTED	290	N/A	12,000	8,695	13,499	280-230/1	0.4	27	32 x 12 x 10	OU-1	DAIKIN	RXTQ36TAVJ9	208-230/1ø	16.5	25	172	①②③④⑤
IU-1-2	WORK/CURING 109	DAIKIN	FXAQ12PVJU	WALL MOUNTED	290	N/A	12,000	8,695	13,499	280-230/1	0.4	27	32 x 12 x 10								①②③④⑤
IU-1-3	WORK/CURING 110	DAIKIN	FXAQ12PVJU	WALL MOUNTED	290	N/A	12,000	8,695	13,499	280-230/1	0.4	27	32 x 12 x 10								①②③④⑤
<div>① UNIT SHALL COME WITH WIRED WALL MOUNTED CONTROLLER, #BRC1E73.</div> <div>② SIZE AND INSTALL REFRIGERANT PIPING, Y-BRANCHES, AND OIL TRAPS AS RECOMMENDED BY MANUFACTURER'S WRITTEN INSTRUCTIONS. INSULATE SUCTION PIPING WITH 1" INSULATION, PER IECC.</div> <div>③ CONTRACTOR TO PROVIDE AND INSTALL QUANTITY OF INTERCONNECTING COMMUNICATIONS/POWER CABLE BETWEEN OUTDOOR UNITS, AND ALL INDOOR UNITS FOR ACTUAL INSTALLED DISTANCES. CABLE SHALL MEET SPECIFICATION PER MANUFACTURER.</div> <div>④ POWER FOR INDOOR UNIT PROVIDE THROUGH OUTDOOR UNIT VIA INTERCONNECTING COMMUNICATIONS/POWER CABLE.</div> <div>⑤ PROVIDE WITH "INTELLIGENT TOUCH MANAGER #DCM601A71 SYSTEM CONTROLLER.</div>																					

FAN SCHEDULE													
MARK	SERVICE	MANUFACTURER	MODEL	CFM	E.S.P.	SONES @ 0.1"	MOTOR		BAROM. DAMPER	WIRE SCREEN	DRIVE	WT. (LBS)	REMARKS
							WATTS OR HP	V/PH					
EF-1	INLINE LIGHT EXHAUST	MAX FAN	8" MAX	803	0.50"	11.5	213W	120/1	NO	NO	DIRECT	10	① ⑥
EF-2	SYSTEM EXHAUST	GREENHECK	TBI-CA-3H30	6,424	0.25"	18.4	3/4	460/3	NO	NO	BELT	190	③ ④ ⑤
EF-3	SYSTEM EXHAUST	GREENHECK	TBI-CA-3H30	12,848	0.25"	40	3	460/3	NO	NO	BELT	257	③ ④ ⑤
EF-4	CURING ROOM	GREENHECK	SP-A90	50	0.25"	1.2	30 W	120/1	YES	YES	DIRECT	12	① ②
① FAN OR FANS CONTROLLED BY WALL SWITCH REFER TO AND COORDINATE WITH ELECTRICAL PLANS.													
② PROVIDE WITH PITCHED WALL DISCHARGE CAP, #WC-6													
③ PROVIDE WITH MOTOR COVER AND BELT GUARD.													
④ PROVIDE WITH MOUNTING BRACKET AND NEOPRENE BASE ISOLATORS.													
⑤ PROVIDE VARIABLE FREQUENCY DRIVE FOR FAN START/STOP AND SPEED CONTROL. COORDINATE LOCATION WITH ARCH.													
⑥ FAN AND 8ø FLEX DUCT PROVIDED BY OWNER AND INSTALLED BY HVAC CONTRACTOR.													

GRILLES/REGISTERS/DIFFUSERS SCHEDULE										
MARK	DESCRIPTION	MODULE SIZE	TYPE	OBD	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
CD	SUPPLY DIFFUSER	18x18	SQUARE CEILING	NO	SURFACE	STEEL	WHITE	TITUS	TDC	12ø NECK
RG	RETURN GRILLE	30x18	ROUND SUPPLY	NO	SURFACE	STEEL	WHITE	TITUS	350RS	
SG	SUPPLY GRILLE	18x18	DOUBLE DEFLECTION GRILLE	NO	SURFACE	STEEL	WHITE	TITUS	300RL	
NOTES:										
1. NECK SIZE SHOWN ON PLANS AND CORRESPONDS TO DUCT CONNECTION SIZE.				3. MOUNTING HEIGHT OF GRILLES AND EXACT LOCATION OF ALL DIFFUSERS TO FIELD COORDINATED AND APPROVED BY OWNER.						
2. CONTRACTOR SHALL PROVIDE SQUARE TO ROUND ADAPTERS AS REQUIRED FOR INSTALLATION.				4. VERIFY MAKE, MODEL AND COLOR OF ALL DEVICES WITH OWNER.						

LOUVER SCHEDULE										
MARK	DESCRIPTION	MODULE SIZE	TYPE	BIRD SCREEN	FRAME	MATERIAL	FINISH	MANUF.	MODEL	REMARKS
L-1	EXHAUST LOUVER	PER PLAN	STATIONARY DRAINABLE BLADE	YES	FLANGED	ALUMINUM	PER ARCH	GREENHECK	EDD-401	

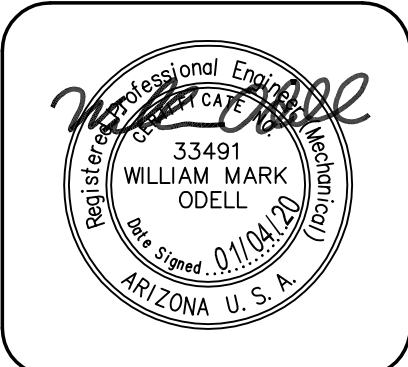
MECHANICAL GENERAL NOTES
1. DUCTWORK CONSTRUCTION AND INSTALLATION INCLUDING SHEET METAL GAUGES, REINFORCEMENT, JOINT SEALING, AIR LEAKAGE AND DETAILS NOT SPECIFICALLY SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH CURRENT CODE DUCT CONSTRUCTION STANDARDS.
2. FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS I REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 6'-0"
3. BRANCH DUCT SERVING DIFFUSERS SHALL BE SAME SIZE AS NECK DIAMETER.
4. CONTRACTOR TO COORDINATE ALL FINAL THERMOSTAT LOCATIONS WITH OWNER & ARCHITECT PRIOR TO MOUNTING.
5. ALL THERMOSTATS ARE TO BE MOUNTED AT A HEIGHT OF 48" TO 54" ABOVE THE FLOOR LEVEL FOR DISABLED ACCESS.
6. PITCH CONDENSATE DRAIN LINE 1/8" PER 12" RUN TOWARDS TERMINATION. INSULATE IN CONDENSATE DRAIN LINE WITH 3/8" CLOSED CELL "ARMIFLEX" TUBE INSULATION, TO PREVENT CONDENSATE DRIP.

DUCT CONSTRUCTION NOTES
1 - ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE" AND "SMACNA STANDARDS" AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING, MECHANICAL AND ENERGY CONSERVATION CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
2 - ALL DUCTWORK JOINTS SHALL BE SEALED WITH WATER-BASED MASTIC.
3 - ALL AIR SUPPLY AND RETURN DUCTS LOCATED IN UNCONDITIONED SPACES (OR ATTIC) SHALL HAVE A MIN. R-8 INSULATION VALUE.
4 - PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.
5 - TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.
6 - ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. IF DUCT LINER IS USED FOR INSULATION, CONTRACTOR SHALL INCREASE DUCT SIZE ACCORDINGLY.
7 - ALL DUCT SYSTEMS SHALL BE SUPPORTED WITH APPROVED HANGERS AT INTERVALS NOT EXCEEDING 10 FEET OR BY OTHER APPROVED DUCT SUPPORT SYSTEMS PER SECTION 603.10 OF THE 2018 IMC.

MECHANICAL SPECIFICATIONS		
<p>DRAWINGS AND DATA</p> <p>DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. LOCATION OF ALL ITEMS NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. EXACT LOCATIONS NECESSARY TO SECURE BEST CONDITIONS AND RESULTS MUST BE DETERMINED AT PROJECT AND SHALL HAVE APPROVAL OF ARCHITECT BEFORE BEING INSTALLED. DO NOT SCALE DRAWINGS. IF SO DIRECTED BY ARCHITECT, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF WORK. INCLUDE MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION OF A SYSTEM OR PIECE OF EQUIPMENT.</p> <p>CODES</p> <p>INCLUDE IN WORK, WITHOUT EXTRA COST TO OWNER, LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) REQUIRED TO COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, DRAWINGS AND SPECIFICATIONS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT THAN CODES, ORDINANCES, STANDARDS AND STATUTES. CODES, ORDINANCES AND STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH DRAWINGS OR SPECIFICATIONS. FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS AND CODES ARE MINIMUM REQUIREMENTS:</p> <ul style="list-style-type: none">A. APPLICABLE CITY, COUNTY, AND STATE MECHANICAL, ELECTRICAL, GAS, PLUMBING, HEALTH AND SANITARY CODES, LAWS AND ORDINANCES.B. UNDERWRITER'S LABORATORIES, INC. STANDARDS.C. 2018 INTERNATIONAL RESIDENTIAL CODE WITH LOCAL AMENDMENTS.D. 2018 INTERNATIONAL PLUMBING CODE WITH STATE AMENDMENTS.E. 2018 INTERNATIONAL MECHANICAL CODE WITH STATE AMENDMENTS.F. 2017 IRC.G. 2018 INTERNATIONAL FUEL GAS CODE WITH STATE AMENDMENTS. <p>GENERAL</p> <p>THE WORK INCLUDED UNDER THIS SECTION CONSISTS OF FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT TO PROVIDE A COMPLETE FUNCTIONING HVAC SYSTEM AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN. THIS SYSTEM SHALL INCLUDE REQUIREMENTS, UNITS, THERMOSTATS, DUCTWORK, FANS, CONDENSATE DRAINS, REFRIGERANT PIPING, INSULATION, CLEAN FILTERS, FLUES AND ALL APPURTENANCES. THE QUALITY OF THE WORKMANSHIP MORE THAN ONE UNIT IS REQUIRED OF ANY ITEM, FURNISHED BY THE SAME MANUFACTURER, EXCEPT WHERE SPECIFIED OTHERWISE. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.</p> <p>INSTRUCT THE OWNER AS TO PROPER OPERATION AND CARE OF THE EQUIPMENT AFTER START-UP AND CHECK-OUT. PROVIDE THE OWNER WITH ALL WARRANTY AND OPERATING INSTRUCTIONS AT THE COMPLETION OF THE PROJECT.</p> <p>GUARANTEE</p> <p>EACH COMPLETE SYSTEM GUARANTEED BY CONTRACTOR FOR A PERIOD OF ONE YEAR, FROM DATE OF ACCEPTANCE OF WORK BY OWNER IN WRITING, TO BE FREE OF DEFECTS OF MATERIALS AND WORKMANSHIP, AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT BE PROVIDED AS NECESSARY TO MAKE THE SYSTEM OF EQUIPMENT OPERATE SATISFACTORILY, AND THAT ANY FAULTY MATERIALS OR WORKMANSHIP BE REPLACED OR REPAIRED. LOSS OF REFRIGERANT IS CONSIDERED A DEFECT IN WORKMANSHIP AND/OR EQUIPMENT, TO BE CORRECTED AS REQUIRED AT NO EXTRA COST TO THE OWNER.</p>	<p>REGULATIONS, PERMITS & INSPECTIONS</p> <p>COMPLY WITH ALL APPLICABLE CODES, RULES AND REGULATIONS. ALL MATERIALS, EQUIPMENT AND WORK MUST CONFORM TO THE INTERNATIONAL RESIDENTIAL CODE. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES.</p> <p>DUCTWORK</p> <p>ALL DUCTWORK TO BE GALVANIZED LOCK FORMING SHEET METAL. SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONSTRUCT ALL DUCTWORK AND FITTINGS TO PROVIDE MINIMUM RESISTANCE AND NOISE LEVELS. DUCTWORK SHALL BE FABRICATED AND INSTALLED BY SKILLED MECHANICS IN A WORKMANLIKE MANNER USING THE LATEST EDITION OF THE "SMACNA" MANUAL AS A GUIDELINE. SEAL ALL SUPPLY AIR DUCTWORK AND RETURN AIR PLATFORMS/PLENUMS AIRTIGHT WITH APPROVED DUCT SEALER. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.</p> <p>UPON APPROVAL BY ARCHITECT, CONTRACTOR MAY USE FIBER GLASS DUCT BOARD FOR ABOVE GROUND SUPPLY AND RETURN DUCT SYSTEMS. FIBER GLASS DUCT BOARD SHALL BE OWENS CORNING "ENDURAGOLD", TYPE 800, 1-1/2" THICK. (OR APPROVED EQUAL)</p> <p>FLEXIBLE DUCT</p> <p>FLEXIBLE DUCT MAY BE USED FOR FINAL CONNECTION TO AIR DISTRIBUTION DEVICES, BUT SHALL NOT EXCEED 8 FEET IN LENGTH. FLEXIBLE DUCT SHALL HAVE A MINIMUM R-8 INSULATION VALUE.</p> <p>DUCT INSULATION</p> <p>DUCT SIZES ON DRAWINGS ARE "CLEAR INSIDE." INCREASE SHEET METAL SIZES ACCORDINGLY FOR LINED DUCTWORK. ADHESIVE AND INSULATING MATERIALS SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS MAXIMUM 25 FOR FLAME SPREAD AND 50 FOR SMOKE DEVELOPED. ADHESIVES SHALL BE WATERPROOF.</p> <p>DUCTS IN FLOOR TRUSSES OR OTHER CONDITIONED SPACE:</p> <p>LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 1 1/2" THICK, THERMAL CONDUCTIVITY AT 75° MAXIMUM 0.17 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 6.0.</p> <p>WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 1 1/2 PCF, 2" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 6.0. (ASSUMES 25% COMPRESSION)</p> <p>DUCTS IN ATTICS OR OTHER UNCONDITIONED SPACE:</p> <p>LINED DUCTWORK - SEMI-RIGID GLASS FIBER INSULATION, 1 1/2 PCF, 2" THICK, THERMAL CONDUCTIVITY AT 75° MAXIMUM 0.13 BTU/IN./SQ. FT./DEG./HR. MINIMUM "R-VALUE" SHALL BE 8.0.</p> <p>WRAPPED DUCTWORK - FIBER GLASS BLANKET WITH FRK VAPOR RETARDING FACING. 0.75 PCF, 3" THICK, WITH A MINIMUM INSTALLED "R-VALUE" OF 8.0. (ASSUMES 25% COMPRESSION)</p>	<p>GRILLES AND DIFFUSERS</p> <p>ACCEPTABLE MANUFACTURERS ARE TITUS, ANEMOSTAT, KRUEGER, CARNES, BARBERCOMAN, AGTAIR, E.A.P.C., METAL-AIR OR HART AND COOLEY. CONFIRM FINISHED AND COLOR WITH ARCHITECT. ALL GRILLES AND DIFFUSERS SHALL BE SUBMITTED TO ARCHITECT FOR FINAL APPROVAL.</p> <p>EXHAUST FANS</p> <p>FURNISH AND INSTALL EXHAUST FANS AS REQUIRED BY ARCHITECTURAL DRAWINGS. PROVIDE FANS WITH FACTORY ROOF OR WALL CAPS AS SHOWN. PROVIDE ALL EXHAUST FANS WITH BACKRAFT DAMPER. MAXIMUM NOISE RATING 4.0 SONES. ACCEPTABLE MANUFACTURER'S ARE "BROAN", "NUTONE" OR "GREENHECK" OR AS APPROVED BY ARCHITECT.</p> <p>CONDENSATE DRAIN LINES:</p> <p>CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC. RUN DRAIN LINE FULL SIZE TO NEAREST PLANTER AREA, FLOOR DRAIN, OR P-TRAP. INSTALL TRAPS IN LINES AS REQUIRED BY EQUIPMENT MANUFACTURER. COORDINATE SPECIAL REQUIREMENTS FOR DRAIN AND WATER LINES THAT MAY BE REQUIRED WITH SPECIAL EQUIPMENT WITH PLUMBING CONTRACTOR PRIOR TO COMPLETION OF ROUGH-IN.</p> <p>REFRIGERANT PIPING</p> <p>ABOVE GROUND, WITHIN BUILDING PIPING SHALL BE TYPE ACR DRAWN-TEMPER COPPER TUBE WITH WROUGHT COPPER UNIONS. PIPING BELOW GROUND SHALL BE TYPE L ANNEALED COPPER TUBING. EXPOSED SUCTION PIPING SHALL HAVE 1-1/2" INSULATION, CONCEALED SUCTION PIPING SHALL HAVE 1" INSULATION. INSULATION SHALL BE "ARMAFLEX" FLEXIBLE ELASOMERIC, OR EQUAL.</p> <p>FAN COILS AND CONDENSING UNITS</p> <p>AIR CONDITIONING EQUIPMENT SHALL BE AS SPECIFIED ON SCHEDULES UNLESS SPECIFICALLY ALLOWED BY OWNER OR ARCHITECT.</p> <p>THERMOSTAT AND CONTROLS</p> <p>FURNISH AND INSTALL PROGRAMMABLE THERMOSTATS AS REQUIRED BY THE EQUIPMENT MANUFACTURER OR AS SPECIFIED ON THE EQUIPMENT SCHEDULES. FIELD VERIFY EXACT LOCATION AND MOUNTING HEIGHT FOR CONTROLS WITH ARCHITECT AND GENERAL CONTRACTOR.</p> <p>INSTRUCTIONS/O&M MANUAL</p> <p>THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL INSTALLED HVAC EQUIPMENT. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF TWO (2) BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE: CONTROL AND/OR INTERLOCK WIRING DIAGRAMS, SEQUENCE OF OPERATION, PREVENTATIVE MAINTENANCE ITEMS, AND A PARTS LIST WITH THE NOMENCLATURE, MAINTENANCE SCHEDULE, AND NAME, ADDRESS AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.</p> <p>AIR SYSTEM BALANCING</p> <p>AIR SYSTEMS AND AIR DISTRIBUTION TEST AND BALANCE. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE SERVICES OF AN INDEPENDENT AIR BALANCE AND TESTING AGENCY. THE AGENCY SHALL BE APPROVED BY THE OWNER AND ARCHITECT. THE TESTING AGENCY SHALL BE ONE WHICH SPECIALIZES IN THE BALANCING AND TESTING OF HEATING, VENTILATION AND AIR CONDITIONING SYSTEMS TO BALANCE, ADJUST AND TEST AIR MOVING EQUIPMENT AND AIR DISTRIBUTING OR EXHAUSTING SYSTEMS AS HEREIN SPECIFIED. ALL WORK SHALL BE DONE UNDER DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL HEATING AND VENTILATING ENGINEER OR AABC OR NEBB CERTIFIED COMPANY. PROVIDE CERTIFIED REPORT.</p>

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ARCHITECTURE & PLANNING

KA

DRAWING: Mechanical Schedules and Specs

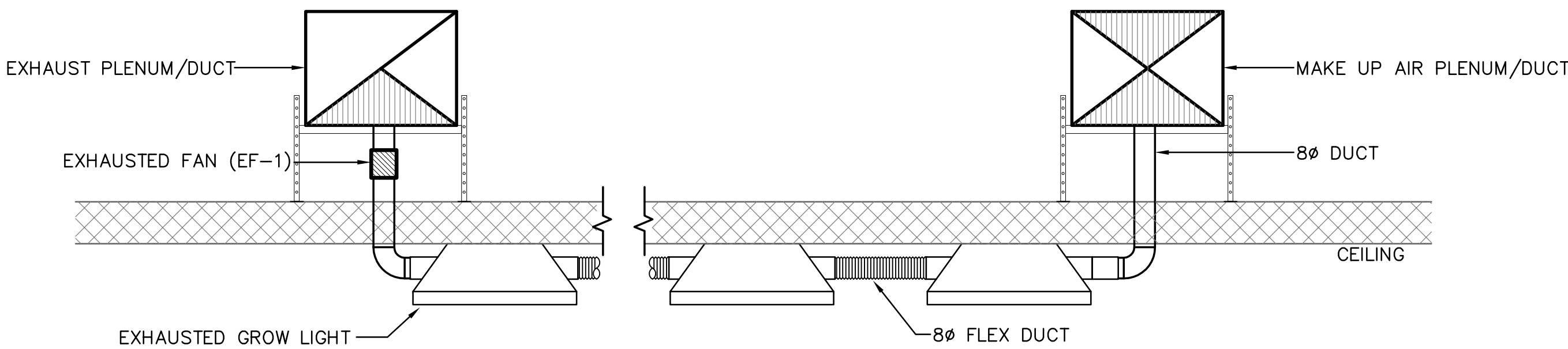
PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86332

APN: 404-02-024T

DRAWN BY
CHECKED BY
DATE Sep 30th, 2020
JOB NO. 757
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M3.1

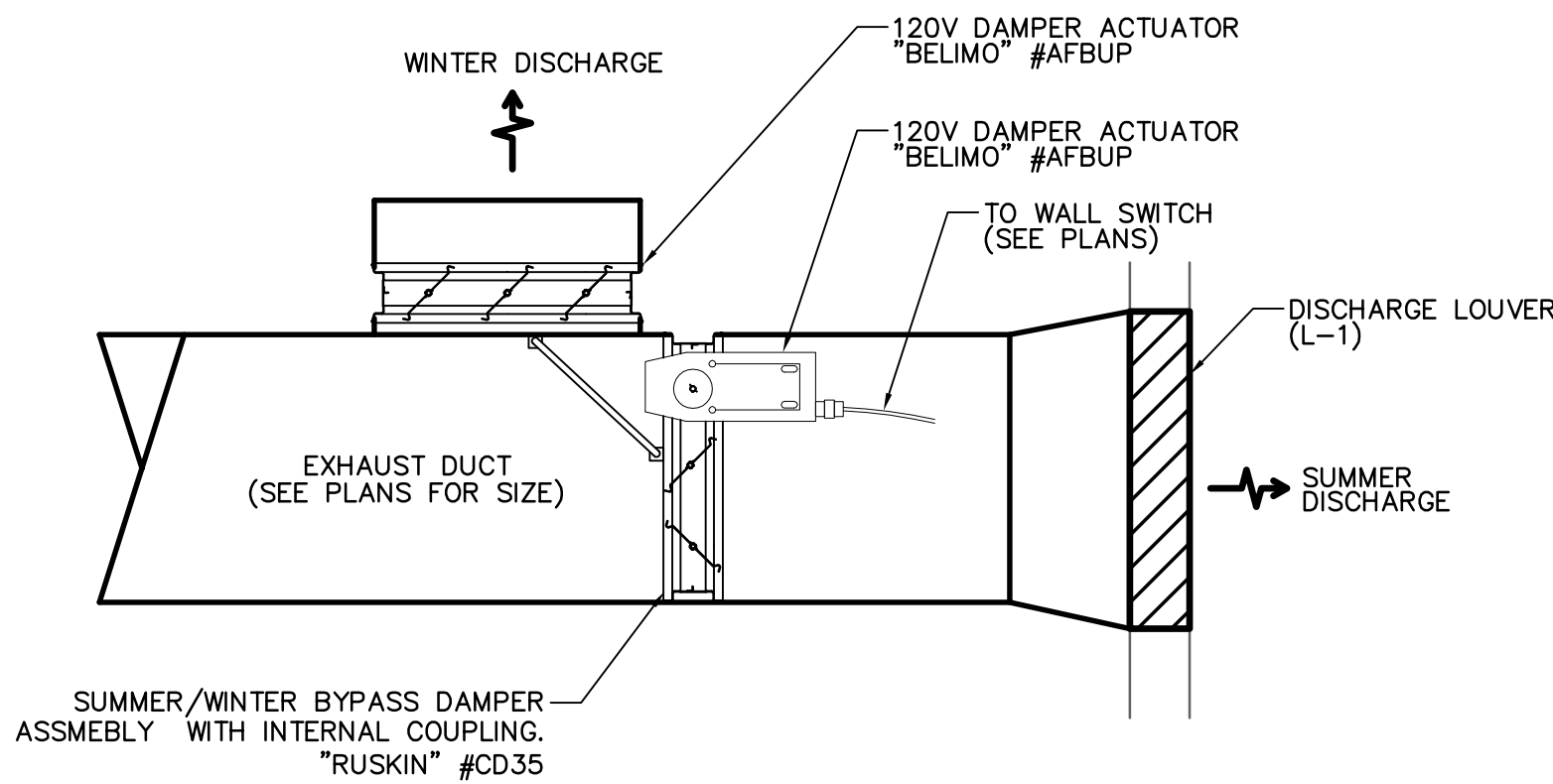
Oct 07, 2020 - 3:51pm



GROW LIGHT EXHAUST DETAIL

1

M4.1

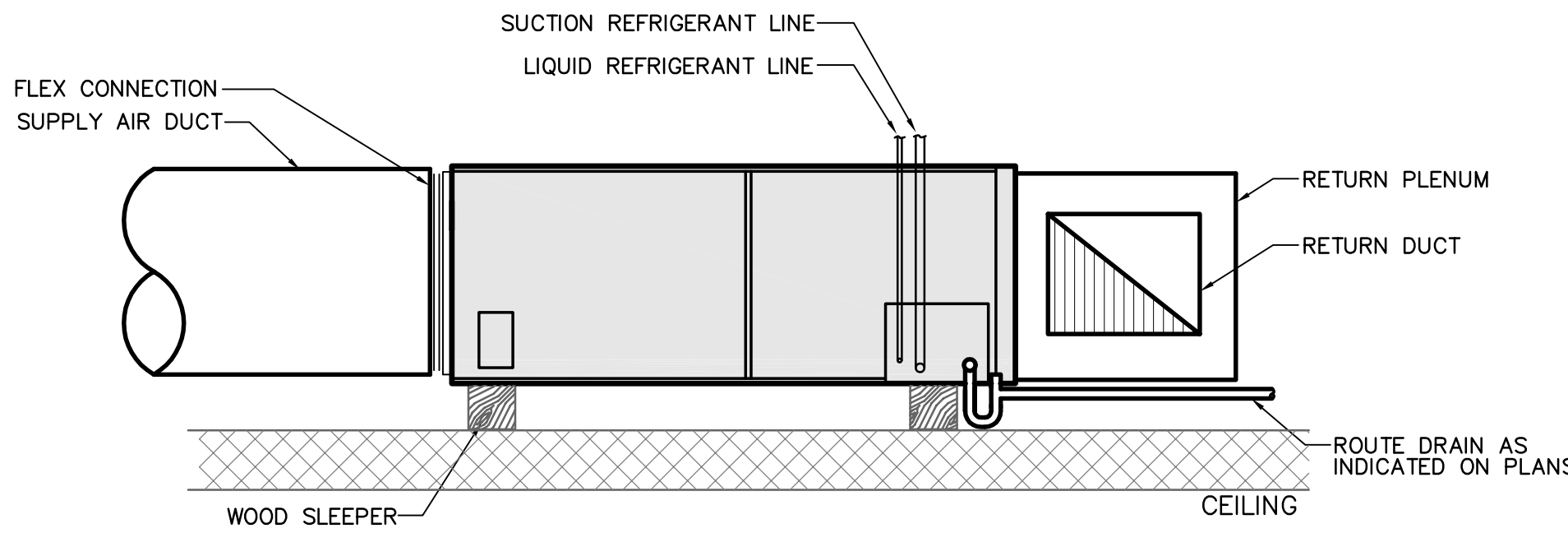


EXHAUST BYPASS DETAIL

NOT TO SCALE

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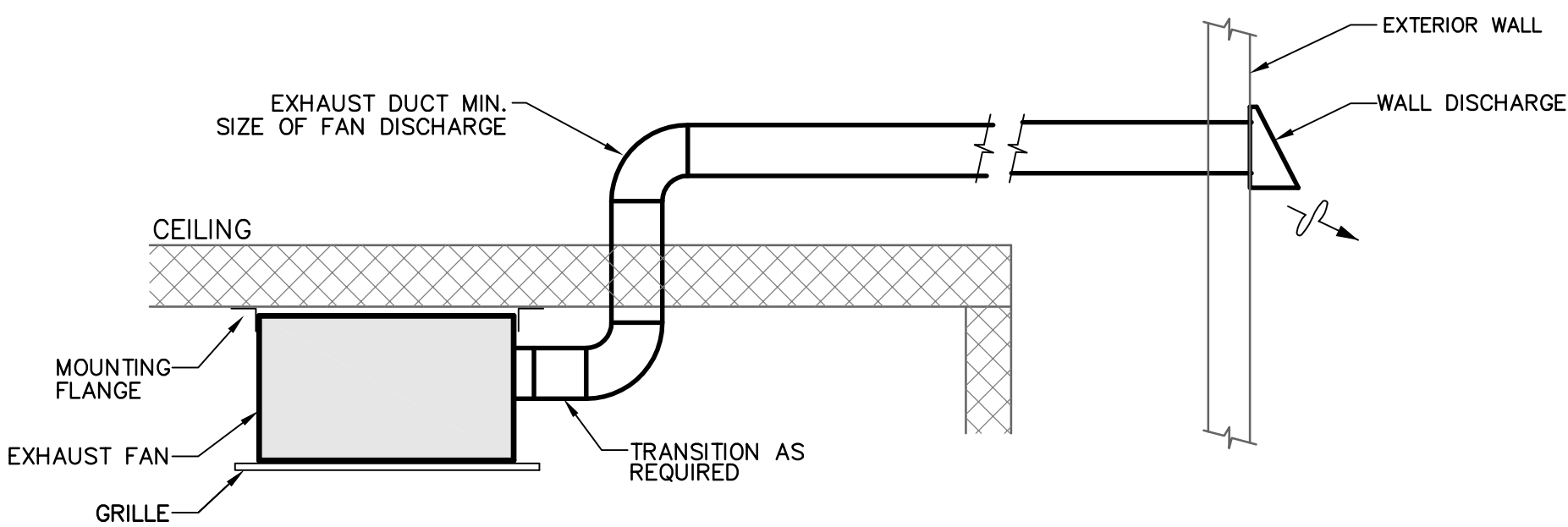
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MECHANICAL UNIT DETAIL

2

M4.1

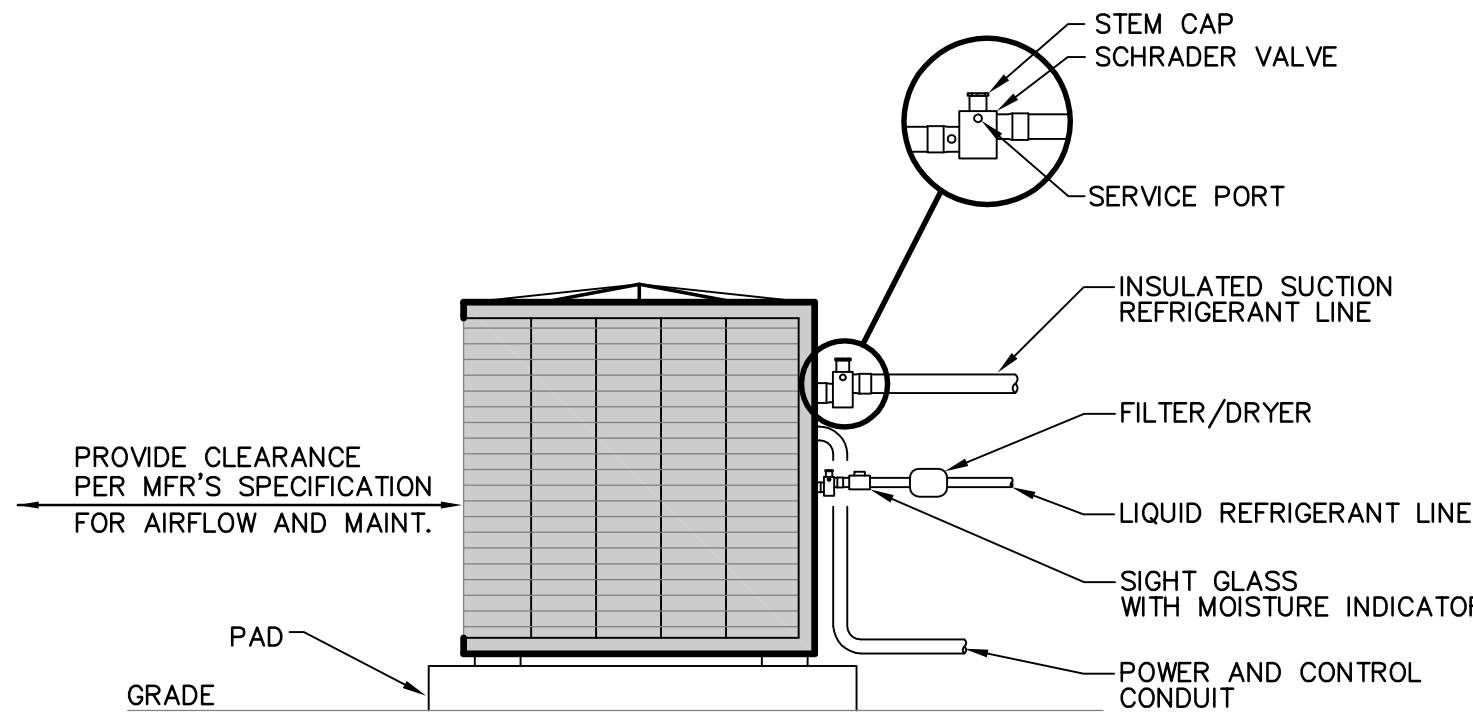


CEILING EXHAUST FAN DETAIL

NOT TO SCALE

4

M4.1



CONDENSING UNIT DETAIL

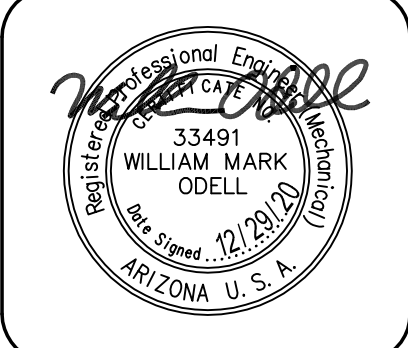
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3

M4.1

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ARCHITECTURE & PLANNING

DRAWING: Mechanical Details

PROJECT: Sonoran Holdings LLC, Phase II
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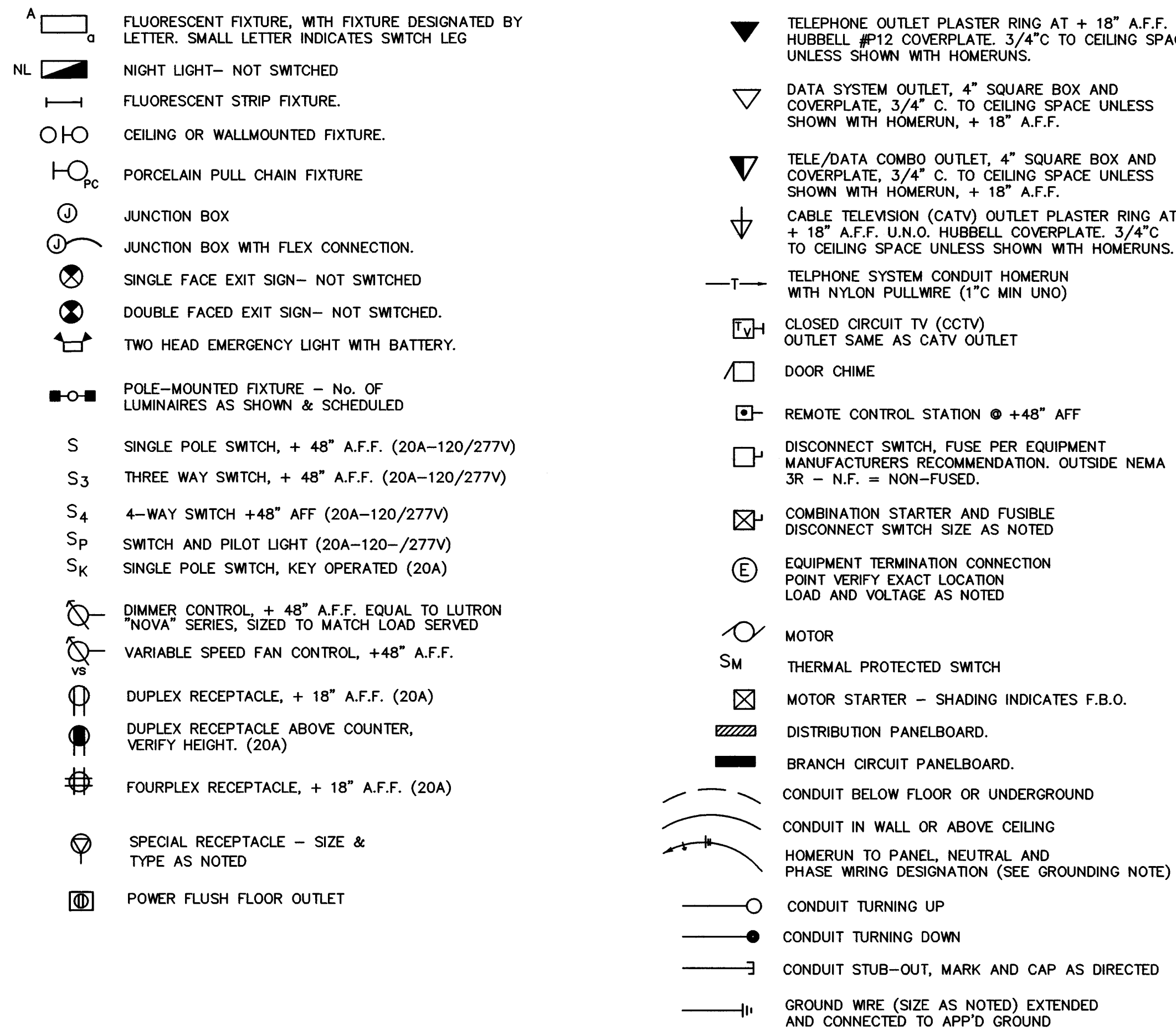
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ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT



ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR (⚬ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE (⚬ OF OUTLET)
E.C.	EMPTY CONDUIT
G.F.I.	GROUND FAULT INTERRUPTER
WP	WEATHERPROOF
UNO	UNLESS OTHERWISE NOTED
NL	NIGHT LIGHT
TYP	TYPICAL
EDF	ELECTRIC DRINKING FOUNTAIN
TMB	TELEPHONE MOUNTING BOARD

NOTE:

- 1.) ALL SUB-PANELS, SERVICE EQUIPMENT, AND EQUIPMENT DISCONNECTS SHALL BE PROVIDED WITH THE WORKING CLEARANCES REQUIRED BY THE LATEST ADOPTED NEC.

OUTLETS INSTALLED IN FIREWALLS

OUTLETS, (SWITCHES, RECEPTACLES, ETC.), MOUNTED IN FIRE RATED WALLS SHALL NOT OCCUPY THE SAME WALL CAVITY WITH OTHER OUTLES WHETHER ON SAME SIDE OR BACK-TO-BACK. RECOMMENDED SPACING IS 24 INCHES HORIZONTAL (MIN).

FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION THAT CONFORM TO UNDERWRITERS LABORATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

SPECIFICATIONS

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

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

ELECTRICAL CONTRACTOR SHALL COMPLY WITH THE 2010 ADA SAD REQUIREMENTS FOR ALL SWITCHES, RECEPTACLES, TELE/DATA AND SIDE REACH CONTROL SWITCHES. ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J-BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J-BOX AT 44" A.F.F. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J-BOX.

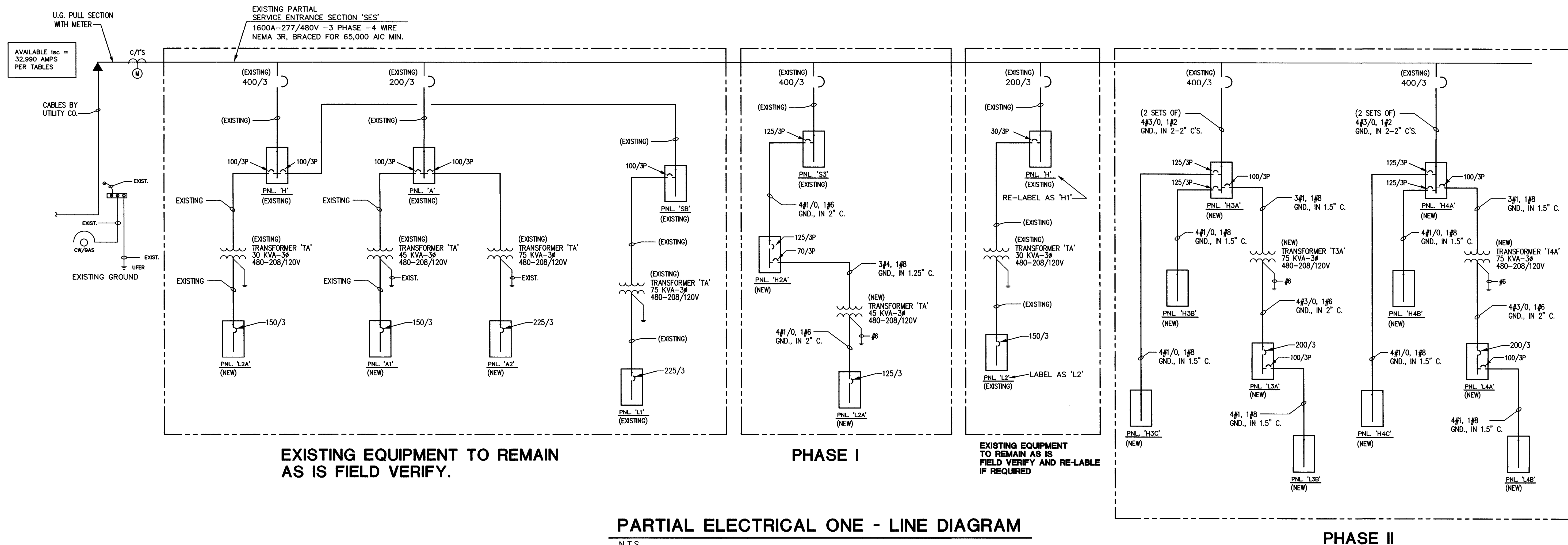
SPECIAL REQUIREMENTS PER:
THE FAIR HOUSING ACT.

ALL RECEPTACLES AT RESTROOM LAVATORIES TO BE GFCI TYPE. ALL WALL CONTROLS, SWITCHES AND THERMOSTATS TO BE MOUNTED WITH TOP OF J-BOX AT 48" A.F.F. ALL ABOVE COUNTER CONTROLS, SWITCHES & OUTLETS TO BE MOUNTED WITH HORIZONTAL ORIENTATION WITH TOP OF J-BOX AT 44" A.F.F. ALL WALL OUTLETS TO BE MOUNTED AT 15" A.F.F. TO BOTTOM OF J-BOX.

ELECTRICAL LOAD CALC'S

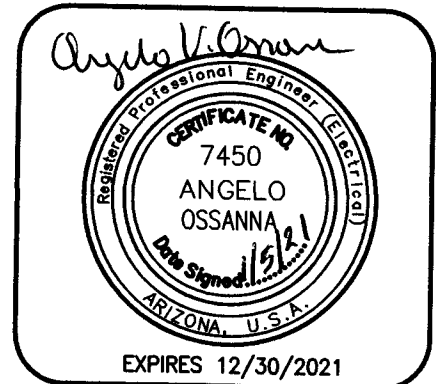
EXISTING 'SES' ESTIMATED LOAD	=	150.0 AMPS
EXIST. ADDED LOAD PNL. 'SB' HIGH Ø	=	115.6 AMPS
NEW ADDED LOAD PNL. 'S3' HIGH Ø	=	207.9 AMPS
NEW ADDED LOAD PNL. 'H3A' HIGH Ø	=	254.8 AMPS
NEW ADDED LOAD PNL. 'H4A' HIGH Ø	=	252.6 AMPS
<hr/>		
NEW CODE TOTAL	=	980.9 AMPS

ADDITIONAL LOAD WILL NOT OVERLOAD EXISTING SERVICE



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ARCHITECTURE & PLANNING

DRAWING: Electrical Symbols, One-Line Diagram, Calc's. & Notes

Sonoran Holdings LLC, Phase II

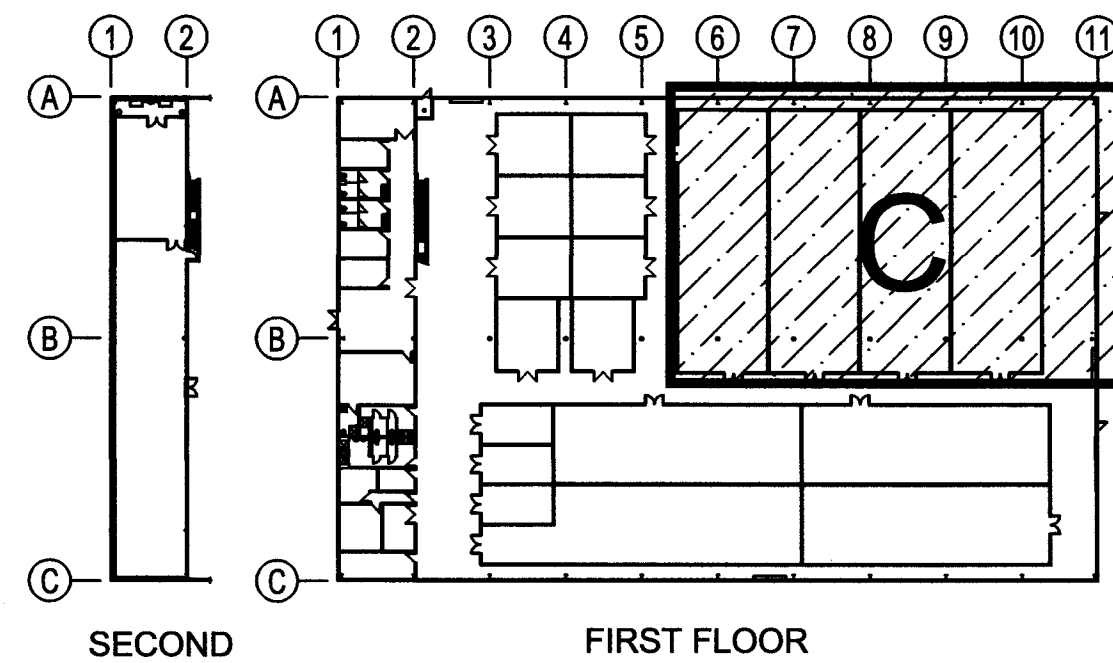
PROJECT:

APN:

DRAWN BY
R.A.
CHECKED BY
A.O.
DATE
Sep 30th, 2020

JOB NO.
757
SHEET

E1.1



Key Plan

Scale: N.T.S.



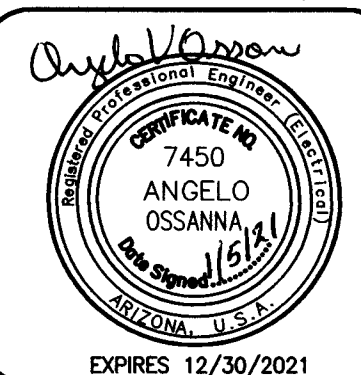
GENERAL LIGHTING NOTES:

1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELECTRICAL ENG., OR OWNER PRIOR TO ROUGH-IN.
2. NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
3. ALL LIGHT FIXTURES SHALL BE SELECTED & PROVIDED BY OWNER INSTALLED BY ELECTRICAL CONTRACTOR.
4. ALL LIGHT SWITCH LOCATIONS AND LIGHTING CONTROL REQUIREMENTS AS DIRECTED BY OWNER.

PHASE II
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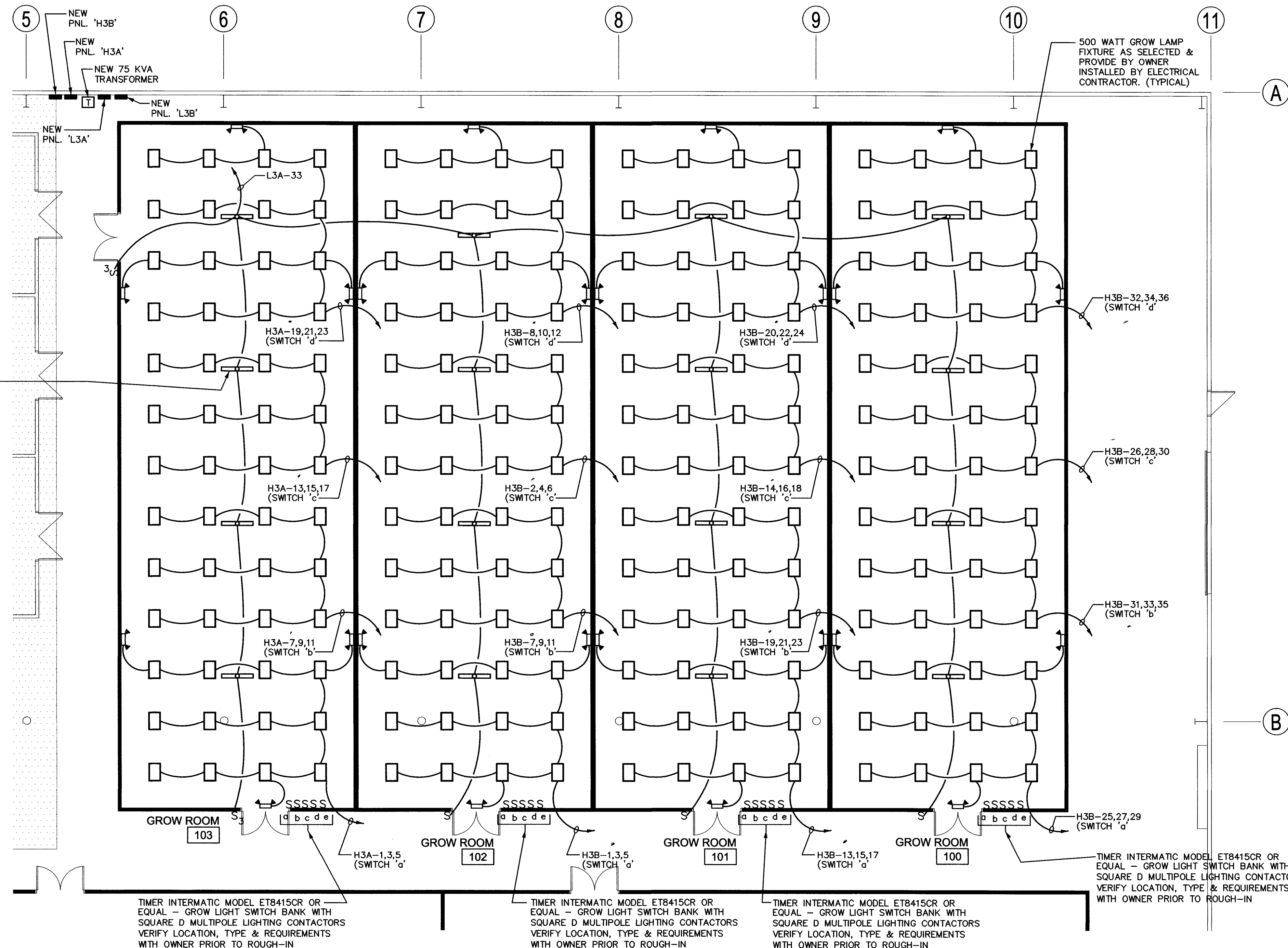


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ARCHITECTURE & PLANNING

DRAWING: Lighting 1st Floor Plan Area 'C'
PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322
APN: 404-02-024T

DRAWN BY
R.A.
CHECKED BY
A.O.
DATE
Sep 30th, 2020
JOB NO.
757
SHEET

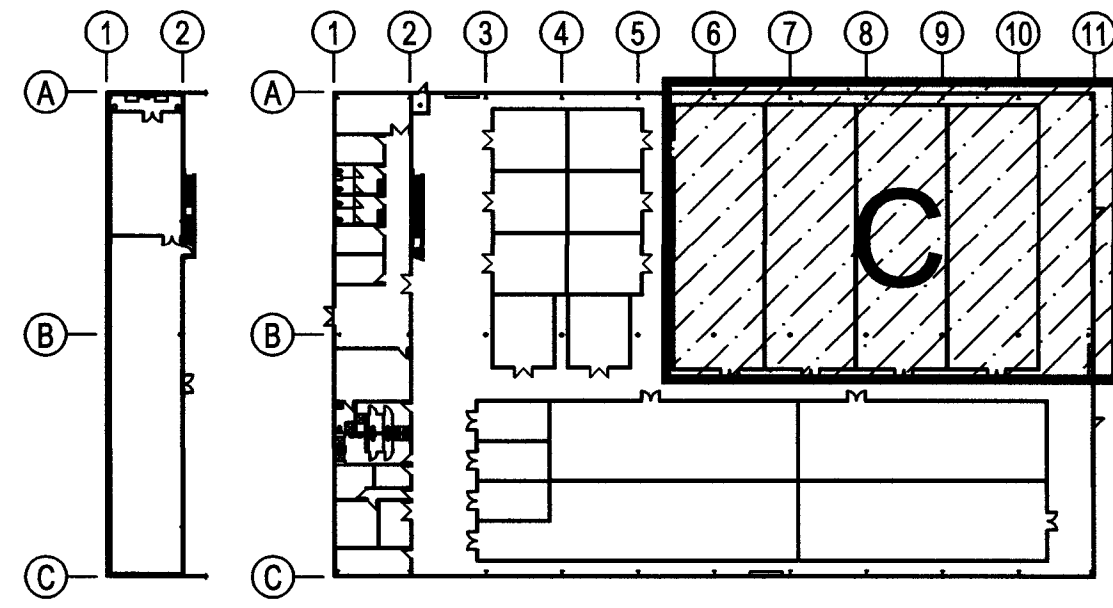
E1.2



Lighting 1st Floor Plan Area 'C'

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





Key Plan

Scale: N.T.S.



GENERAL POWER NOTES:

- IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND/OR DEVICES HE IS TO VERIFY ITEMS WITH OWNER PRIOR TO ROUGH-IN.
- ALL RECEPTACLES IN GROW ROOMS SHALL BE WP/GFCI TYPE INSTALLED AT +24" A.F.F. VERIFY AND CONFIRM HEIGHT WITH OWNER.
- EXTERIOR RECEPTS. TO BE WP, GFCI TYPE.
- ELECTRICAL CONTRACTOR SHALL VERIFY GROW ROOM MOTOR EQUIP. AMPS, VOLTAGE AND PHASE REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. (TYPICAL)
- FACILITY SWITCHES & RECEPTACLES FOR FORWARD APPROACH SHALL BE MOUNTED BETWEEN 15" & 48" ABOVE FINISHED FLOOR PER (2017 A117.1 STANDARD SECTION 308.2.1)
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURES, MOTORS, FANS, MECHANICAL EQUIPMENT ETC. SHALL BE UL LISTED.

SWITCHED RECEPT. MOUNTED AT 8'-0" FOR DEHUMIDIFIER. VERIFY EXACT HEIGHT, LOCATION & REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. (TYPICAL)

DEHUMIDIFIER VERIFY MOUNTING LOCATIONS (TYP. OF 2 PER GROW ROOM)

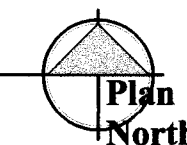
SWITCH FOR DEHUMIDIFIER (TYP. OF 2 PER GROW ROOM)

SWITCH FOR CIRCULATION FAN (TYP. OF 2 PER GROW ROOM)

SWITCHED RECEPT. MOUNTED AT 8'-0" FOR CIRCULATION FAN. VERIFY EXACT HEIGHT, LOCATION & REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. (TYPICAL OF 1 AT SOUTH END PER GROW ROOM)

Power 1st Floor Plan Area 'C'

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



PHASE II
JOB# 20-43

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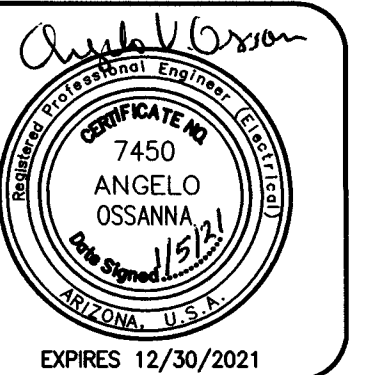
NOTE TO CONTRACTOR:
CIRCULATION FANS AND DEHUMIDIFIERS SHALL BE PROVIDED BY OWNER INSTALLED BY ELECTRICAL CONTRACTOR.

NOTE:
RECEPTACLES IN GROW ROOMS SHALL BE MOUNTED AT 24" A.F.F. VERIFY HEIGHT & LOCATIONS WITH OWNER PRIOR TO ROUGH-IN. (TYPICAL)

EXISTING EQUIPMENT TO REMAIN AS IS.

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ARCHITECTURE & PLANNING

DRAWING: Power 1st Floor Plan Area 'C'

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T

DRAWN BY
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DATE
Sep 30th, 2020
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E1.3

Dec 15, 2020 - 6:30pm

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ANGELO OSSANNA
7450
12/30/2021

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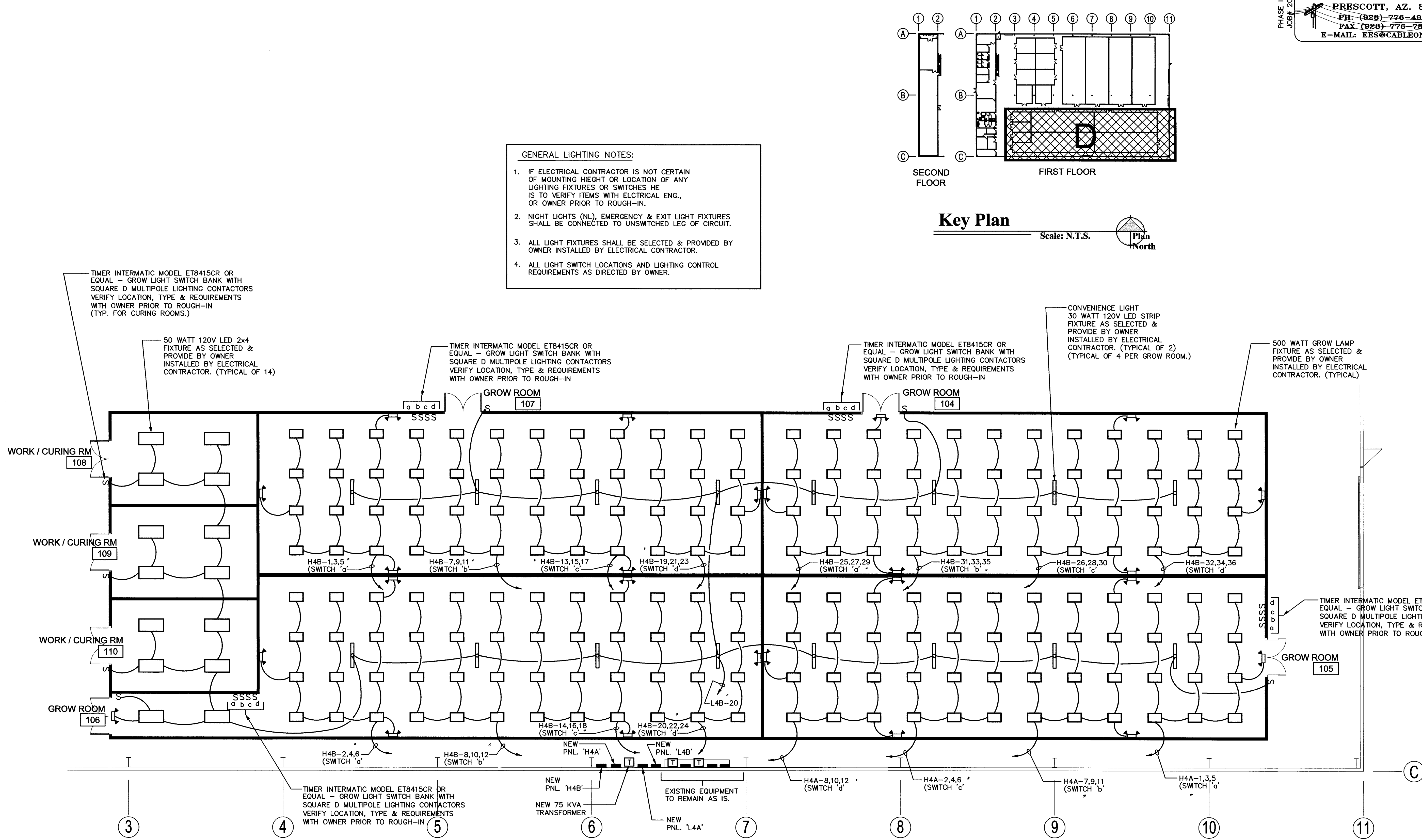
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ARCHITECTURE & PLANNING

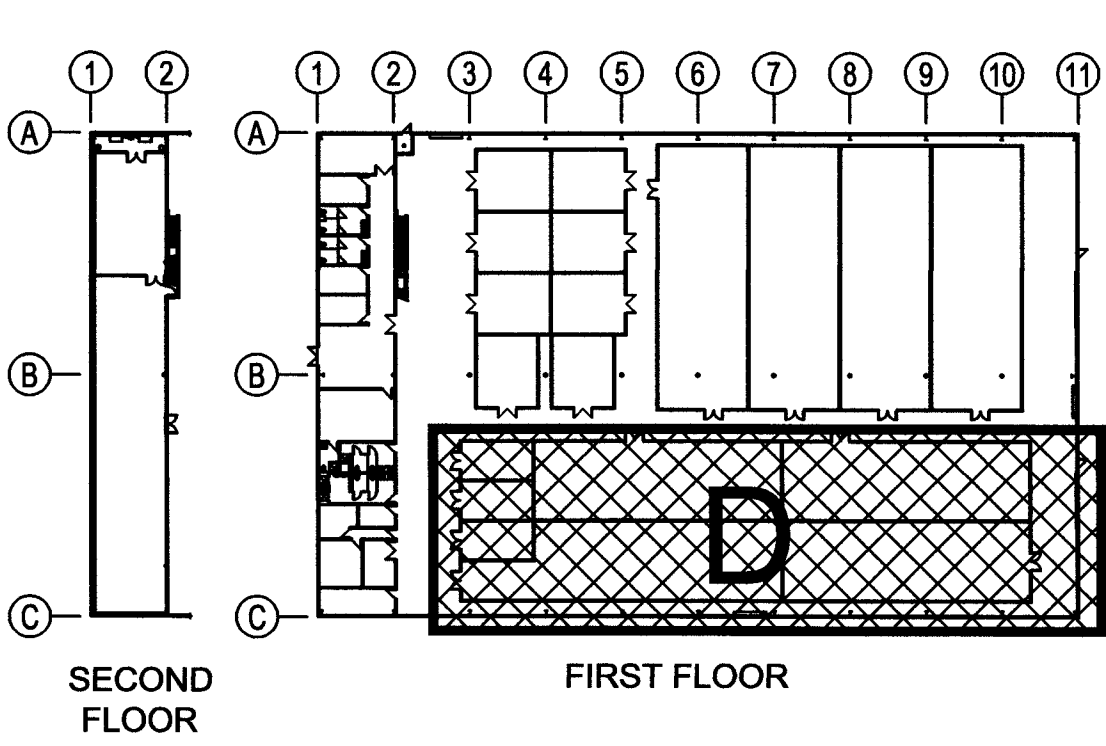
DRAWING: Lighting 1st Floor Plan Area 'D'

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T



- GENERAL LIGHTING NOTES:
- IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HIEGHT OR LOCATION OF ANY LIGHTING FIXTURES OR SWITCHES HE IS TO VERIFY ITEMS WITH ELCTRICAL ENG., OR OWNER PRIOR TO ROUGH-IN.
 - NIGHT LIGHTS (NL), EMERGENCY & EXIT LIGHT FIXTURES SHALL BE CONNECTED TO UNSWITCHED LEG OF CIRCUIT.
 - ALL LIGHT FIXTURES SHALL BE SELECTED & PROVIDED BY OWNER INSTALLED BY ELECTRICAL CONTRACTOR.
 - ALL LIGHT SWITCH LOCATIONS AND LIGHTING CONTROL REQUIREMENTS AS DIRECTED BY OWNER.



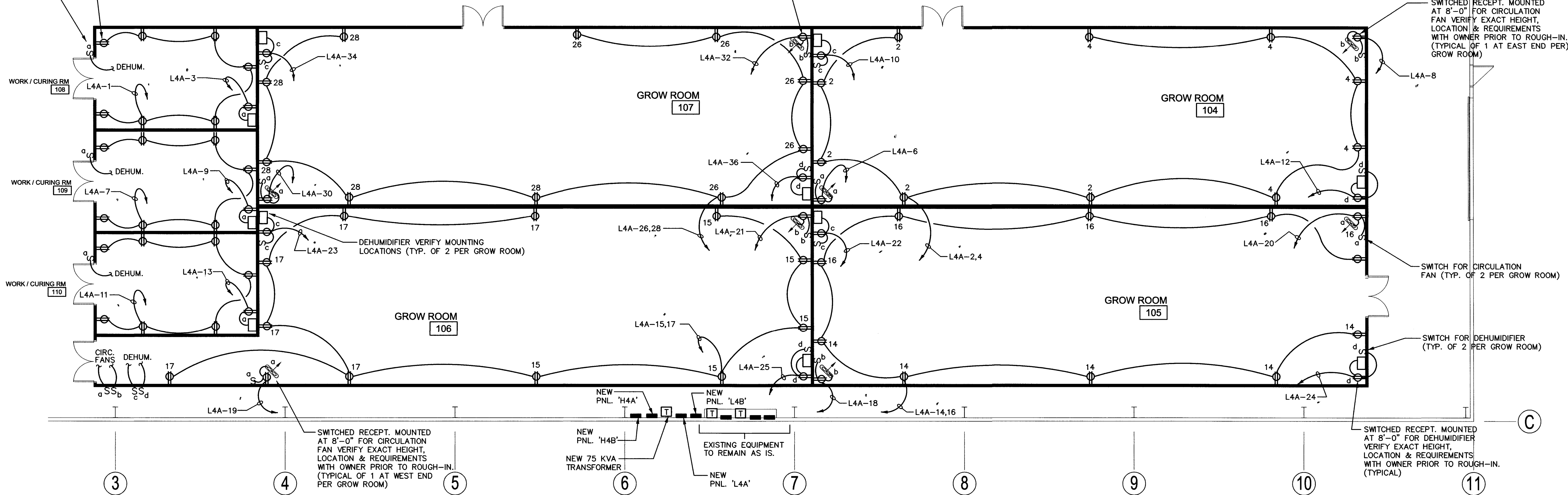
Key Plan
Scale: N.T.S.
North

Lighting 1st Floor Plan Area 'D'
Scale: 1/8"=1'-0"
North

Dec 15, 2020 - 8:31pm

SWITCH FOR DEHUMIDIFIER
(TYP. OF 1 PER CURING ROOM)

RECEPTACLES IN CURING
ROOMS SHALL BE MOUNTED
AT 24" A.F.F. VERIFY HEIGHT
& LOCATIONS WITH OWNER PRIOR
TO ROUGH-IN. (TYPICAL)



SWITCHED RECEPT. MOUNTED
AT 8'-0" FOR CIRCULATION
FAN VERIFY EXACT HEIGHT,
LOCATION & REQUIREMENTS
WITH OWNER PRIOR TO ROUGH-IN.
(TYPICAL OF 1 AT WEST END
PER GROW ROOM)

NEW PNL. 'H4A'
NEW PNL. 'H4B'
NEW 75 KVA
TRANSFORMER
EXISTING EQUIPMENT
TO REMAIN AS IS.
NEW PNL. 'L4A'

SWITCHED RECEPT. MOUNTED
AT 8'-0" FOR DEHUMIDIFIER
VERIFY EXACT HEIGHT,
LOCATION & REQUIREMENTS
WITH OWNER PRIOR TO ROUGH-IN.
(TYPICAL)

SWITCHED RECEPT. MOUNTED
AT 8'-0" FOR CIRCULATION
FAN VERIFY EXACT HEIGHT,
LOCATION & REQUIREMENTS
WITH OWNER PRIOR TO ROUGH-IN.
(TYPICAL OF 1 AT EAST END PER
GROW ROOM)

SWITCH FOR CIRCULATION
FAN (TYP. OF 2 PER GROW ROOM)

SWITCH FOR DEHUMIDIFIER
(TYP. OF 2 PER GROW ROOM)

Power 1st Floor Plan Area 'D'

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



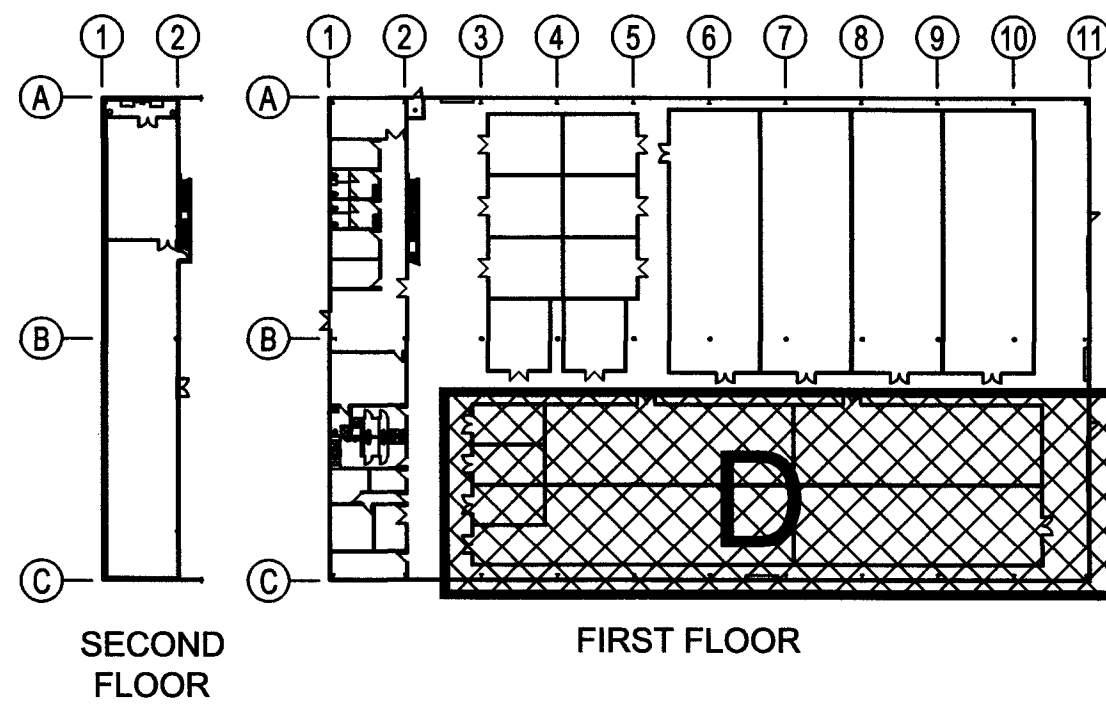
GENERAL POWER NOTES:

1. IF ELECTRICAL CONTRACTOR IS NOT CERTAIN OF MOUNTING HEIGHT OR LOCATION OF ANY ELECTRICAL EQUIPMENT AND OR DEVICES HE IS TO VERIFY ITEMS WITH OWNER PRIOR TO ROUGH-IN.
2. ALL RECEPTACLES IN GROW ROOMS SHALL BE WP/GFCI TYPE INSTALLED AT +24" A.F.F. VERIFY AND CONFIRM HEIGHT WITH OWNER
3. EXTERIOR RECEPTS. TO BE WP, GFCI TYPE.
4. ELECTRICAL CONTRACTOR SHALL VERIFY GROW ROOM MOTOR EQUIP. AMPS, VOLTAGE AND PHASE REQUIREMENTS WITH MANUFACTURER PRIOR TO ROUGH-IN. (TYPICAL)
5. FACILITY SWITCHES & RECEPTACLES FOR FORWARD APPROACH SHALL BE MOUNTED BETWEEN 15" & 48" ABOVE FINISHED FLOOR PER (2017 A117.1 STANDARD SECTION 308.2.1)
6. ELECTRICAL CONTRACTOR SHALL VERIFY ALL LIGHT FIXTURES, MOTORS, FANS, MECHANICAL EQUIPMENT ETC. SHALL BE UL LISTED.

NOTE TO CONTRACTOR:
CIRCULATION FANS AND
DEHUMIDIFIERS SHALL BE
PROVIDED BY OWNER INSTALLED
BY ELECTRICAL CONTRACTOR.

NOTE:
RECEPTACLES IN GROW
ROOMS SHALL BE MOUNTED
AT 24" A.F.F. VERIFY HEIGHT
& LOCATIONS WITH OWNER PRIOR
TO ROUGH-IN. (TYPICAL)

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Key Plan

Scale: N.T.S.



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ARCHITECTURE & PLANNING

DRAWING: Power 1st Floor Plan Area 'D'
PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322
APN: 404-02-024T

DRAWN BY R.A.
CHECKED BY A.O.
DATE Sep 30th, 2020
JOB NO. 757
SHEET

E1.5

KEYNOTES MECH. UNITS:

- ① COND. UNIT CU-1 CIRCUIT
H3C-(1,3,5) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ② COND. UNIT CU-1 CIRCUIT
H3C-(7,9,11) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ③ COND. UNIT CU-1 CIRCUIT
H3C-(3,15,17) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ④ COND. UNIT CU-1 CIRCUIT
H3C-(19,21,23) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑤ COND. UNIT CU-1 CIRCUIT
H3C-(2,4,6) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑥ COND. UNIT CU-1 CIRCUIT
H3C-(8,10,12) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑦ COND. UNIT CU-1 CIRCUIT
H3C-(14,16,18) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑧ COND. UNIT CU-1 CIRCUIT
H3C-(20,22,24) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑨ COND. UNIT CU-1 CIRCUIT
H4C-(1,3,5) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑩ COND. UNIT CU-1 CIRCUIT
H4C-(7,9,11) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑪ COND. UNIT CU-1 CIRCUIT
H4C-(13,15,17) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑫ COND. UNIT CU-1 CIRCUIT
H4C-(19,21,23) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑬ COND. UNIT CU-1 CIRCUIT
H4C-(2,4,6) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑭ COND. UNIT CU-1 CIRCUIT
H4C-(8,10,12) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑮ COND. UNIT CU-1 CIRCUIT
H4C-(14,16,18) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑯ COND. UNIT CU-1 CIRCUIT
H4C-(20,22,24) 3#12, 1#12 GND.,
IN 1/2" CONDUIT.
- ⑰ COND. UNIT OU-1 CIRCUIT
L4B-(17,19) 2#10 1#10 GND.,

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Angelo V. Ossa

CERTIFICATE NO.
7450
ANGELO
OSSA
11/20
State signed 11/20
ARIZONA, U.S.A.


EXPIRES 12/30/2021

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ARCHITECTURE & PLANNING

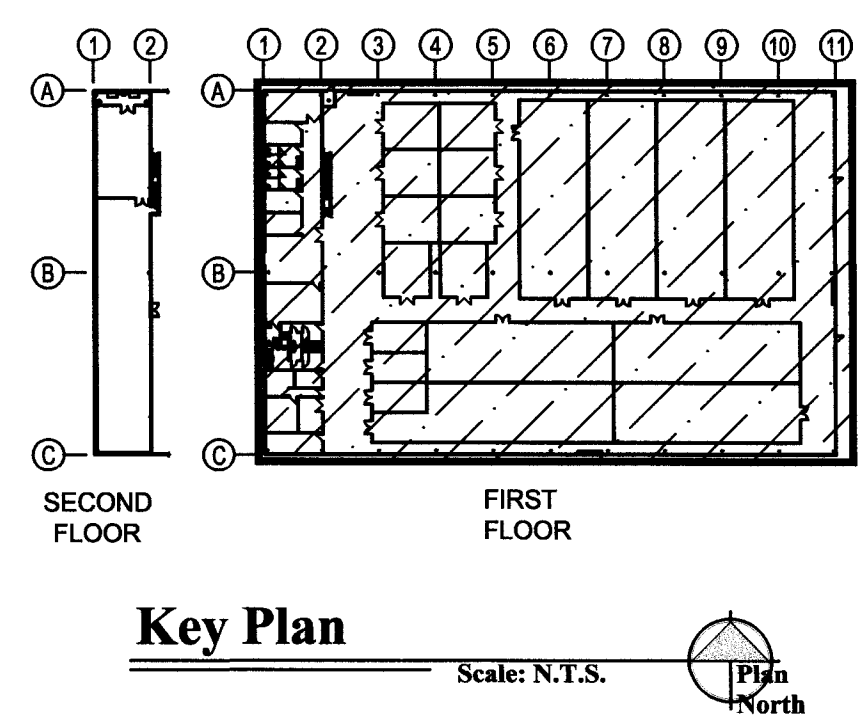


DRAWING: Overall Mechanical Power Floor Plan

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T

DRAWN BY R.A.
CHECKED BY A.O.
DATE Sep 30th, 2020
JOB NO. 757
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E1.6



PANELBOARD H3A SCHEDULE				H3A SCHEDULE			
MAINS: 400A MLO				LOCATION: SEE PLAN			
VOLTAGE: 277/480V, 3ø, 4W				MOUNTING: SURFACE			
TYPE: GE, SQ D OR EQUAL				MIN. A.I.C.: 65/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	Q.R. NO.	ØA	ØB	ØC	Q.R. NO.
GROW LIGHTS		20	1	2000			2
			3	2000			4
			5	2000			6
		20	7	2000			8
			9	2000			10
			11	2000			12
		20	13	2000			14
			15	2000			16
			17	2000			18
		30	19	2660			20
			21	2660			22
			23	2660			24
SPACE			25				26
			27				28
			29				30
SUB-PANEL 'H3C'		125	31	13440			32
			33	13440			34
			35	13440			36
SUB-PANEL 'H3B'		200	37	25980			38
			39	25980			40
			41	17780			42
TOTAL LOAD PER PHASE:				70340	66410	66170	HI# 70370 / 277 = 254.0 AMPS

PANELBOARD H3B SCHEDULE				H3B SCHEDULE			
MAINS: 200A MLO				LOCATION: SEE PLAN			
VOLTAGE: 277/480V, 3ø, 4W				MOUNTING: SURFACE			
TYPE: GE, SQ D OR EQUAL				MIN. A.I.C.: 65/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	Q.R. NO.	ØA	ØB	ØC	Q.R. NO.
GROW LIGHTS		20	1	2000			2
			3	2000			4
			5	2000			6
		20	7	2000			8
			9	2660			10
			11	2000			12
		20	13	2000			14
			15	2000			16
			17	2000			18
		20	19	2000			20
			21	2000			22
			23	2000			24
		20	25	2000			26
			27	2000			28
			29	2000			30
		20	31	2000			32
			33	2660			34
			35	2000			36
SPACE			37				38
			39				40
			41				42
TOTAL LOAD PER PHASE:				25980	25980	25980	HI# 25980 / 277 = 93.8 AMPS

PANELBOARD L3A SCHEDULE				L3A SCHEDULE			
MAINS: 200A MCB				LOCATION: SEE PLAN			
VOLTAGE: 120/208V, 3ø, 4W				MOUNTING: SURFACE			
TYPE: GE, SQ D OR EQUAL				MIN. A.I.C.: 65/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	Q.R. NO.	ØA	ØB	ØC	Q.R. NO.
RECEPT'S. - GROWING RM. 103		20	1	900			2
			3	720			4
			5	1200			6
CIRCULATION FANS GROWING RM. 103			7	1200			8
			9	1600			10
DEHUMIDIFIER GROW RM. 103			11	1600			12
			13	900			14
EXHAUST FAN EF-1 GROW RM. 103			15	900			16
			17	900			18
RECEPT'S. - GROWING RM. 102			19	1200			20
			21	1200			22
CIRCULATION FANS GROWING RM. 102			23	1600			24
DEHUMIDIFIER GROW RM. 102			25	1600			26
EXHAUST FAN EF-1 GROW RM. 102			27	1800			28
			29	900			30
EXHAUST FAN EF-1 GROW RM. 103			31	900			32
			33	600			34
GROW ROOM CONVENIENCE LIGHT			35				36
SPACE			37				38
			39	4740			40
			41	4740			42
TOTAL LOAD PER PHASE:				21740	17780	17540	HI# 21740 / 120 = 181.2 AMPS

PANELBOARD H4A SCHEDULE				H4A SCHEDULE			
MAINS: 400A MLO				LOCATION: SEE PLAN			
VOLTAGE: 277/480V, 3ø, 4W				MOUNTING: SURFACE			
TYPE: GE, SQ D OR EQUAL				MIN. A.I.C.: 65/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	Q.R. NO.	ØA	ØB	ØC	Q.R. NO.
GROW LIGHTS		20	1	2000			2
			3	2000			4
			5	2000			6
		20	7	2000			8
			9	2000			10
			11	2000			12
		15	13	215			14
			15	215			16
			17	215			18
		15	19	215			20
			21	215			22
			23	215			24
SPACE			25				26
			27				28
			29				30
SUB-PANEL 'H4C'		125	31	13440			32
			33	13440			34
			35	13440			36
SUB-PANEL 'H4B'		200	37	24000			38
			39	23324			40
			41	24000			42
TOTAL LOAD PER PHASE:				69624	69312	69978	HI# 69978 / 277 = 252.6 AMPS

PANELBOARD H4B SCHEDULE				H4B SCHEDULE			
MAINS: 200A MLO				LOCATION: SEE PLAN			
VOLTAGE: 277/480V, 3ø, 4W				MOUNTING: SURFACE			
TYPE: GE, SQ D OR EQUAL				MIN. A.I.C.: 65/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	Q.R. NO.	ØA	ØB	ØC	Q.R. NO.
GROW LIGHTS		20	1	2000			2
			3	2000			4
			5	2000			6
		20	7	2000			8
			9	2000			10
			11	2000			12
		20	13	2000			14
			15	2000			16
			17	2000			18
		20	19	2000			20
			21	2000			22
			23	2000			24
		20	25	2000			26
			27	2000			28
			29	2000			30
		20	31	2000			32
			33	2000			34
			35	2000			36
SPACE			37				38
			39				40
			41				42
TOTAL LOAD PER PHASE:				24000	24000	24000	HI# 24000 / 277 = 86.6 AMPS

PANELBOARD L4A SCHEDULE				L4A SCHEDULE			
MAINS: 200A MCB				LOCATION: SEE PLAN			
VOLTAGE: 120/208V, 3ø, 4W				MOUNTING: SURFACE			
TYPE: GE, SQ D OR EQUAL				MIN. A.I.C.: 65/10K SERIES RATED			
CIRCUIT DESCRIPTION		BKR.	Q.R. NO.	ØA	ØB	ØC	Q.R. NO.
RECEPT'S. - CURING RM. 108		20	1	1260			2
			3	1800			4
DEHUMIDIFIER CURING RM. 108			5	90			6
EXHAUST FAN EF-4 CURING RM. 108,109,110			7	1260			8
			9	1200			10
RECEPT'S. - CURING RM. 109			11	1600			12
			13	1600			14
RECEPT'S. - CURING RM. 110			15	1260			16
			17	900			18
RECEPT'S. - GROWING RM. 106			19	1080			20
			21	1200			22
CIRCULATION FANS GROWING RM. 106			23	1600			24
DEHUMIDIFIER GROWING RM. 106			25	1600			26
EXHAUST FANS EF-1 GROWING RM. 106			27	900			28
			29	900			30
EXHAUST FANS EF-1 GROWING RM. 107			31	900			32
			33	1200			34
EXHAUST FANS EF-1 GROWING RM. 107			35	900			36
			37	1600			38
EXHAUST FANS EF-1 GROWING RM. 104			39	900			40
			41	6456			42
EXHAUST FANS EF-1 GROWING RM. 105				900			
EXHAUST FANS EF-1 GROWING RM. 105				4740			
TOTAL LOAD PER PHASE:				23324	23012	23678	HI# 23678 / 120 = 197.3 AMPS

PHASE II
JOB# 20-43

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ARCHITECTURE & PLANNING

DRAWING: Electrical Panel Schedules

PROJECT

PHASE II
JOB# 20-43

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ARCHITECTURE & PLANNING

PANELBOARD				H3C				SCHEDULE			
MAINS: 125A MLO				LOAD-VA				LOCATION: SEE PLAN			
VOLTAGE: 277/480V, 3ø, 4W				MOUNTING: SURFACE				MIN. A.I.C.: 65/10K FULLY RATED			
TYPE: GE, SQ D OR EQUAL											
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	BKR.	CIR. NO.	
COND. UNIT CU-1	15	1	1680			2	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		3	1680	1680		4		10.5 MCA, 480V, 3ø			
		5			1680	6	3				
COND. UNIT CU-1	15	7	1680			8	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		9	1680	1680		10		10.5 MCA, 480V, 3ø			
		11			1680	12	3				
COND. UNIT CU-1	15	13	1680			14	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		15	1680	1680		16		10.5 MCA, 480V, 3ø			
		17			1680	18	3				
COND. UNIT CU-1	15	19	1680			20	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		21	1680	1680		22		10.5 MCA, 480V, 3ø			
		23			1680	24	3				
SPACE		25				26		SPACE			
		27				28					
		29				30					
		31				32					
		33				34					
		35				36					
		37				38					
		39				40					
		41				42					
TOTAL LOAD PER PHASE:				13440	13440	13440	Hi# 13440	/ 277 = 48.5 AMPS			

PANELBOARD				L3B				SCHEDULE			
MAINS: 100A MLO				LOAD-VA				LOCATION: SEE PLAN			
VOLTAGE: 120/208V, 3ø, 4W				MOUNTING: SURFACE				MIN. A.I.C.: 65/10K SERIES RATED			
TYPE: GE, SQ D OR EQUAL											
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	BKR.	CIR. NO.	
FURNACE FC-1	15	1	790			2	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		3	790	790		4	2	3/4 HP, 208V, 1ø			
FURNACE FC-1	15	5			790	6	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		7	790			8	2	3/4 HP, 208V, 1ø			
FURNACE FC-1	15	9	790	790		10	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		11	790			12	2	3/4 HP, 208V, 1ø			
FURNACE FC-1	15	13	790	790		14	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		15	790			16	2	3/4 HP, 208V, 1ø			
SPARE	20	17			540	18	1	RECEPTS. - EXTERIOR			
SPARE	20	19				20	1	GROW ROOM CONVENIENCE LIGHT			
SPARE		21	800			22	1	MOTORIZED DAMPERS			
		23		400		24					
		25				26					
		27				28					
		29				30					
TOTAL LOAD PER PHASE:				5140	5140	3700	Hi# 5140	/ 120 = 42.8 AMPS			

PANELBOARD				H4C				SCHEDULE			
MAINS: 125A MLO				LOAD-VA				LOCATION: SEE PLAN			
VOLTAGE: 277/480V, 3ø, 4W				MOUNTING: SURFACE				MIN. A.I.C.: 65/10K FULLY RATED			
TYPE: GE, SQ D OR EQUAL											
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	BKR.	CIR. NO.	
COND. UNIT CU-1	15	1	1680			2	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		3	1680	1680		4		10.5 MCA, 480V, 3ø			
		5			1680	6	3				
COND. UNIT CU-1	15	7	1680			8	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		9	1680	1680		10		10.5 MCA, 480V, 3ø			
		11			1680	12	3				
COND. UNIT CU-1	15	13	1680			14	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		15	1680	1680		16		10.5 MCA, 480V, 3ø			
		17			1680	18	3				
COND. UNIT CU-1	15	19	1680			20	15	COND. UNIT CU-1			
10.5 MCA, 480V, 3ø		21	1680	1680		22		10.5 MCA, 480V, 3ø			
		23			1680	24	3				
SPACE		25				26		SPACE			
		27				28					
		29				30					
		31				32					
		33				34					
		35				36					
		37				38					
		39				40					
		41				42					
TOTAL LOAD PER PHASE:				13440	13440	13440	Hi# 13440	/ 277 = 48.5 AMPS			

PANELBOARD				L4B				SCHEDULE			
MAINS: 100A MLO				LOAD-VA				LOCATION: SEE PLAN			
VOLTAGE: 120/208V, 3ø, 4W				MOUNTING: SURFACE				MIN. A.I.C.: 65/10K SERIES RATED			
TYPE: GE, SQ D OR EQUAL											
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	BKR.	CIR. NO.	
FURNACE FC-1	15	1	790			2	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		3	790	790		4	2	3/4 HP, 208V, 1ø			
FURNACE FC-1	15	5			790	6	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		7	790			8	2	3/4 HP, 208V, 1ø			
FURNACE FC-1	15	9	790	790		10	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		11	790			12	2	3/4 HP, 208V, 1ø			
FURNACE FC-1	15	13	790	790		14	15	FURNACE FC-1			
3/4 HP, 208V, 1ø		15	790			16	2	3/4 HP, 208V, 1ø			
MINI-SPLIT COND. UNIT OU-1	25	17			1716	18	1	RECEPTS. - EXTERIOR			
16.5 MCA, 208V, 1ø		19	1716		900	20	1	MOTORIZED DAMPERS			
SPACE		21				22	1	SPACE			
		23				24	1	SPACE			
		25				26		SPACE			
		27				28					
		29				30					
TOTAL LOAD PER PHASE:				7256	4740	5776	Hi# 7256	/ 120 = 60.4 AMPS			

DRAWING: Mechanical Power Panel Schedules

PROJECT: Sonoran Holdings LLC, Phase II
1581 S. Boyles Way
Camp Verde, AZ 86322

APN: 404-02-024T

DRAWN BY
R.A.

CHECKED BY
A.O.

DATE
Sep 30th, 2020

JOB NO.
757

SHEET

E1.8