

# MCKAY-DEE LIVE WELL CENTER

4421 HARRISON BLVD, SUITE #A6, OGDEN, UT 84403

@ AT

A.F.F. ABOVE FINISHED FLOOR

ARCH. ARCHITECT/ARCHITECTURAL

APPROX. APPROXIMATELY

ALUM. ALUMINUM

BLDG. BUILDING B.O. BOTTOM OF

COL. COLUMN

DIA. DIAMETER

EQ. EQUAL

EXIST. EXISTING

EXT. EXTERIOR

DWGS. DRAWINGS

ELECT. ELECTRICAL

FDN. FOUNDATION

F.F. FINISH FLOOR

F.V. FIELD VERIFY

H.M. HOLLOW METAL

GWB. GYPSUM WALL BOARD

CONC. CONCRETE

CONST. CONSTRUCTION CONT. CONTINUOUS

D.F. DRINKING FOUNTAIN

COORD.COORDINATE

		APPL	<b>ICAE</b>	BLE C	CODE	ΞS		
			Yec	ar				Year
International B	•		201			Electrical Cod	le _	2014
International A International P International F	lumbing Co			5	Uniform ( Building ( ADA Acc	Conservation	_	N.A.
International E Conservation (	0,		201		Guildelin	es-ANSI A117.1	-	2010
A. Occupancy	and Group	:B		_				
						oancy: Yes N.A.	No	X
B. Seismic Desiç	gn Category	::		Desig	ın Wind S	peed:	MPH	
C. Type of Con	struction (ci	ircle one):						
$\frac{I}{A}$	<u>I</u> B	$\frac{\mathbb{I}}{A}$	<u>Ⅱ</u> B	<u>Ш</u> А	$\frac{\mathbb{II}}{B}$	$\frac{\square}{HT}$ $\frac{\square}{A}$	$\frac{Z}{\Delta}$ $\left(\frac{\overline{Z}}{B}\right)$	
H: Actual Are	Stories: a per Floor ( ea (Table 50) nce Rating I	square fee 6):	et):	3098 900	S SF O SF	  ours).		
Element		Hours A	ssembly Listing	Eleme	nt		Hours	Assembly Listing
Exterior Bearing		0	N.A.		- Ceiling I		0	N.A.
Interior Bearing		0	N.A.		Ceiling F	0	N.A.	
Exterior Non-Bed Structural Frame	-	0	N.A. N.A.		inclosure:	nd Windows	0	N.A. N.A.
Partitions - Perm		0	N.A.	Fire W			0	N.A.
Fire Barriers		0	N.A.	Fire Po Smoke	rtitions Partition	S	0	N.A.
	upant Load: equired:			ilities:		 (m) <u>2</u> (f) _	2	

PROJECT DIRECTORY	/
OWNER: INTERMOUNTAIN HEALTHCARE 4400 HARRISION BLVD. OGDEN, UTAH 84401	
ARCHITECT: BERTOLDI ARCHITECTS 2726 HARRISON BLVD. OGDEN, UTAH 84403 801.476.4330	
MECHANICAL: SPECTRUM ENGINEERS 354 S. STATE STREET SUITE 400 SALT LAKE CITY, UTAH 84111	
PLUMBING: SPECTRUM ENGINEERS 354 S. STATE STREET SUITE 400 SALT LAKE CITY, UTAH 84111	
ELECTRICAL: SPECTRUM ENGINEERS 354 S. STATE STREET SUITE 400 SALT LAKE CITY, UTAH 84111	

VICINITY MAP

Einstein Bros Bagels 🌱

The Harrison Regent

PROJECT LOCATION -

HT. HEIGHT HVAC HEATING/VENT INSUL. INSULATE INT. INTERIOR IBC INTERNATIONALE LT. WT. LIGHT WEIGHT MAINT. MAINTENANC MAX. MAXIMUM MAT. MATERIAL		T.O.W. TOP OF WALL TYP. TYPICAL TFM THERMOFUSED U.N.O. UNLESS NOTE VCT VINYL COMPO VEST. VESTIBULE W/ WITH WD WOOD	MELAMINE D OTHERWISE
S <sup>-</sup>	TANDARD SY	MBOLS	
ELEVATION MARKER	NAME ELEVATION	DETAIL MARKER	1 A101 SIM
EXTERIOR ELEVATION	A101 1	CEILING MARKER (1	i 1'-0" AFF
ROOM MARKER	Room name 101 150 SF	DOOR MARKER	101
	1 Ref	WINDOW MARKER	(1t)
INTERIOR ELEVATION	1 Alol 1 Ref	WALL TYPE MARKER	(A)

STANDARD ABBREVIATIONS

MECH. MECHANICAL

MFR. MANUFACTURER

MISC. MISCELLANEOUS

N.I.C. NOT IN CONTRACT

MIN. MINIMUM

O.C. ON CENTER

O.H. OVERHEAD

OPP. OPPOSITE

RM. ROOM

SHT. SHEET

SIM. SIMILAR

T.O. TOP OF

SCHED. SCHEDULE

SPEC. SPECIFICATIONS

STRUCT. STRUCTURAL

SQ. FT. SQUARE FEET

T.O.S TOP OF SLAB

T.O.F. TOP OF FOOTING

S.F. SQUARE FEET

MTL. METAL

#### GENERAL NOTES A. ALL WORK TO BE DONE SHALL BE IN COMPLIANCE WITH THE 2015 IBC. GENERAL CONTRACTORS SHALL COMPLY WITH ALL LOCAL BUILDING CODES AND ORDINANCES GOVERNING THIS WORK. ANY DISCREPANCIES. C. GENERAL CONTRACTOR SHALL CLOSELY COORDINATE ALL TRADES TO EXPEDITE CONSTRUCTION AND ENFORCE THE HIGHEST QUALITY OF WORKMANSHIP OF THE INVOLVED TRADES. D. DIMENSIONS TAKE PRECEDENCE OVER DRAWINGS. <u>DO NOT</u> SCALETHE DRAWINGS. E. ALL DIMENSIONS GIVEN ARE TO FACE OF STUD UNLESS OTHERWISE F. MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION OF ALL materials and equipment shall be followed. G. SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL PORTIONS OF THE WORK INCLUDING DRAWINGS, SPECIFICATIONS AND ADDENDUMS.

I. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS FOR CLARIFICATION; OTHERWISE THE CONTRACTOR SHALL ASSUME THE MOST RESTRICTIVE AND/OR COSTLY ALTERNATIVE. J. CONTRACTOR TO COORDINATE ALL WORK WITH OWNER'S

H. SUB-CONTRACTORS SHALL NOT PREPARE BIDS FROM PARTIAL SETS

OF DRAWINGS.

VENDORS. SUBCONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

K.SECURE ALL REQUIRED PERMITS AND APPROVALS PRIOR TO ANY CONSTRUCTION.

L. REFER TO ACCESSIBILITY DETAILS FOR MAXIMUM CLEARANCES AND REQUIREMENTS. GRAB BAR BACKING AS PER STATE, LOCAL AND FEDERAL CODES.

#### SHEET INDEX

GENERAL	
AG-001	COVER SHEET
AG-002	EGRESS PLAN
AG-003	TYPICAL ACCESSIBLE DETAILS
ARCHITECTUR	E
AE-101	DEMOLITION PLAN, MAIN FLOOF PLAN, WALL TYPES
AE-140	REFLECTED CEILING PLAN
AE-300	BUILDING SECTIONS
AEP-102	EAST UNIT EXISTING PHOTOS
AEP-103	WEST UNIT EXISTING PHOTOS
AEP-104	WEST UNIT EXISTING PHOTOS
ARCHITECTUR	e interiors
Al-101	FINISH FLOOR PLAN
AI-401	RECEPTION/DRINKING FOUNTAIN ENLARGED PLAN/ELEVATIONS

FITNESS GYM ENLARGED PLAN/ELEVATIONS

PLANS/ELEVATIONS

PLANS/ELEVATIONS

M-001 MECHANICAL COVER SHEET

MEN'S RESTROOM ENLARGED

WOMEN'S RESTROOM ENLARGED

M-100	MECHANICAL DEMO PLAN
M-101	LEVEL 1 MECHANICAL PLAN
M-102	ROOF MECHANICAL PLAN
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
PLUMBING	
P-001	PLUMBING COVER SHEET
P-100	PLUMBING DEMOLATION PLAN
P-101	LEVEL 1 PLUMBING PLAN-DWV
P-102	LEVEL 1 PLUMBING PLAN-WATER
P-501	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES
ELECTRICAL	
EE-001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

DETAILS

TYPICAL MOUNTING HEIGHT

POWER AND LIGHTING

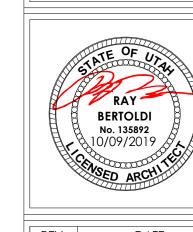
PANEL AND & EQUIPMENT

DEMOLITION PLANS MAIN FLOOR POWER AND

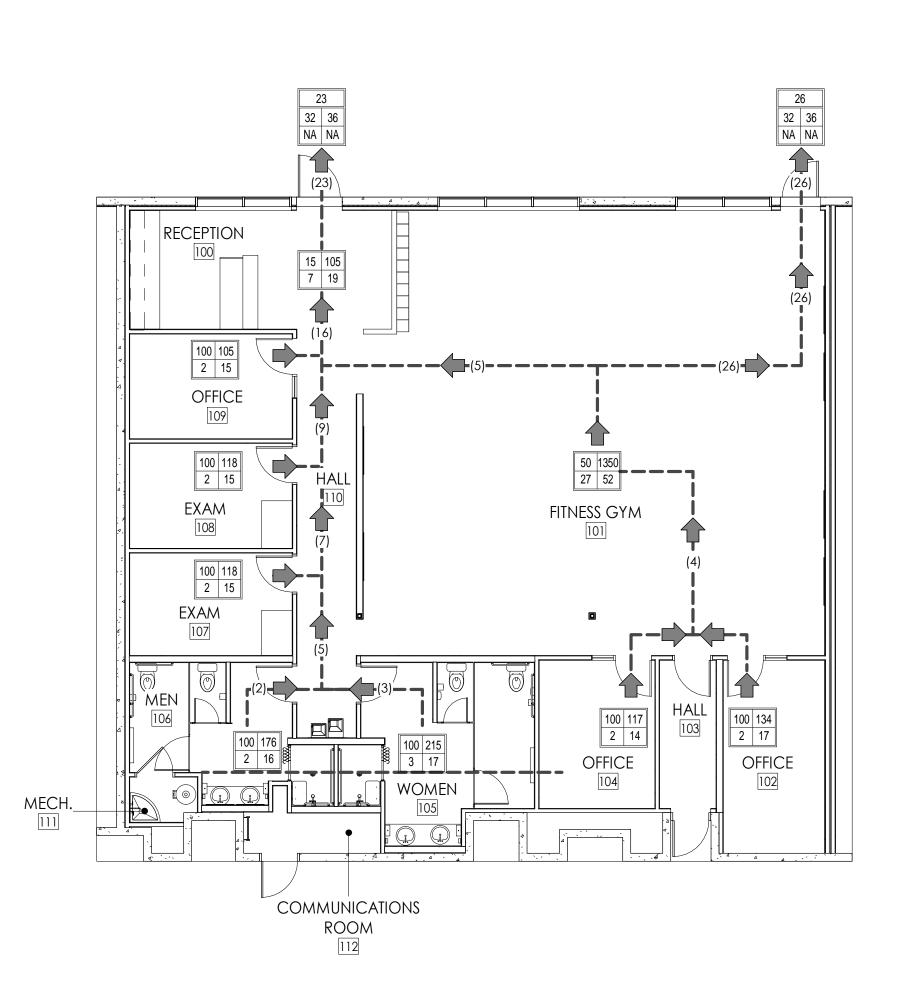
LIGHTING PLANS

EP-602 LIGHTING FIXTURE SCHEDULE

SCHEDULES



PROJECT # 191
DATE: 10/09/19
TITLE:
COVER SHEET

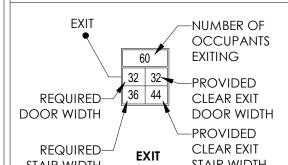


EGRESS LEGEND

---(2)-- COMBINED OCCUPANT LOAD ALONG PATH OF EGRESS

PATH OF EGRESS

- ACCESSIBLE ROUTE; SHALL NOT EXCEED 5% RUNNING SLOPE AND 2% CROSS SLOPE EXCEPT AT CURB RAMPS



PROVIDED

REQUIRED— EXIT CLEAR EXIT STAIR WIDTH LOAD— FACTOR

ACTUAL AREA
(IN SQUARE FEET) NUMBER OF——MAXIMUM
OCCUPANTS
ROOM DISTANCE TO
OCCUPANT ROOM EXIT
SYMBOL (IN FEET)

DEE ENTER A6, OGDEN, UT 84403

4421

BERTOLDI No. 135892

REV.

PROJECT #

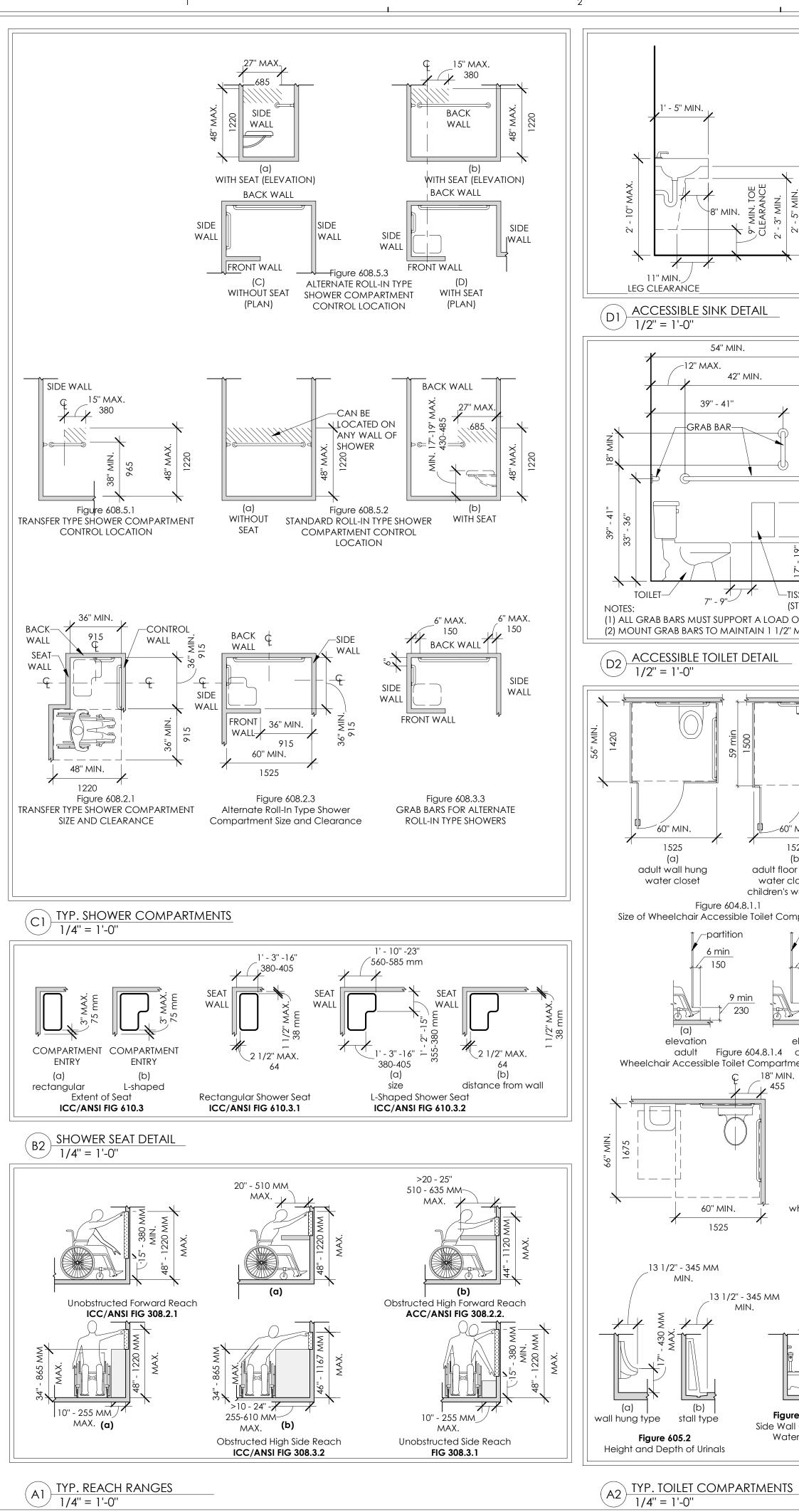
DATE

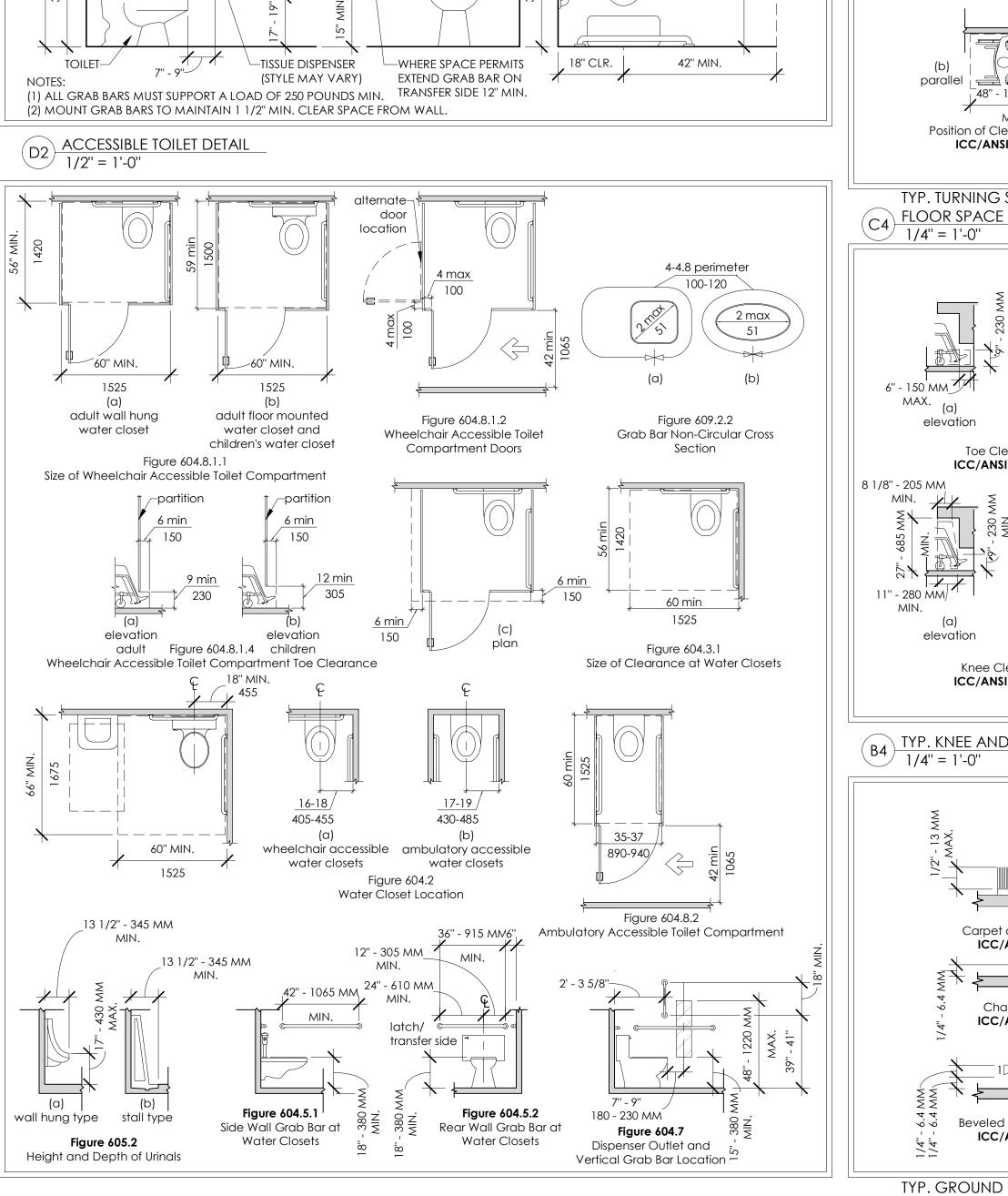
DATE: 10/09/19 TITLE: EGRESS PLAN

ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.

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OF WORK AND/OR COORDINATION.





DISPENSER

-ADA STYLE

**FAUCETS** 

CLEAR

FLOOR

2' - 6" MIN.

CLEAR FLOOR

SPACE

LEVER

DRAIN &

SUPPLY

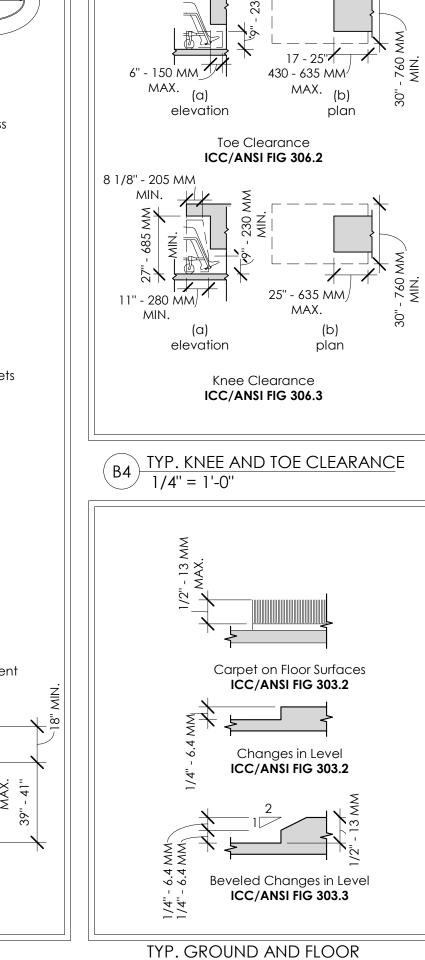
LINES

CONTRACTOR TO PROVIDE BLOCKING/ BACKING FOR ALL ACCESSORIES.

BLOCKING AT GRAB BARS TO

WITHSTAND A 250 LB./FT. LOAD.

-MIRROR



A4 SURFACES 6" = 1'-0"

pull side

push side\

Maneuvering Clearances at Recessed Doors

ICC/ANSI FIG 404.2.3.4

A5 ADA DOORS AND DOORWAYS

1/4" = 1'-0"

push side, door provided

with both closer and

60" - 1525 MM

12" - 305 MM

base 36" - 915 MM MIN.

Size of Turning Space ICC/ANSI FIG 304.3

48" - 1220 MM MIN.

Size of Clear Floor Space

ICC/ANSI FIG 305.3

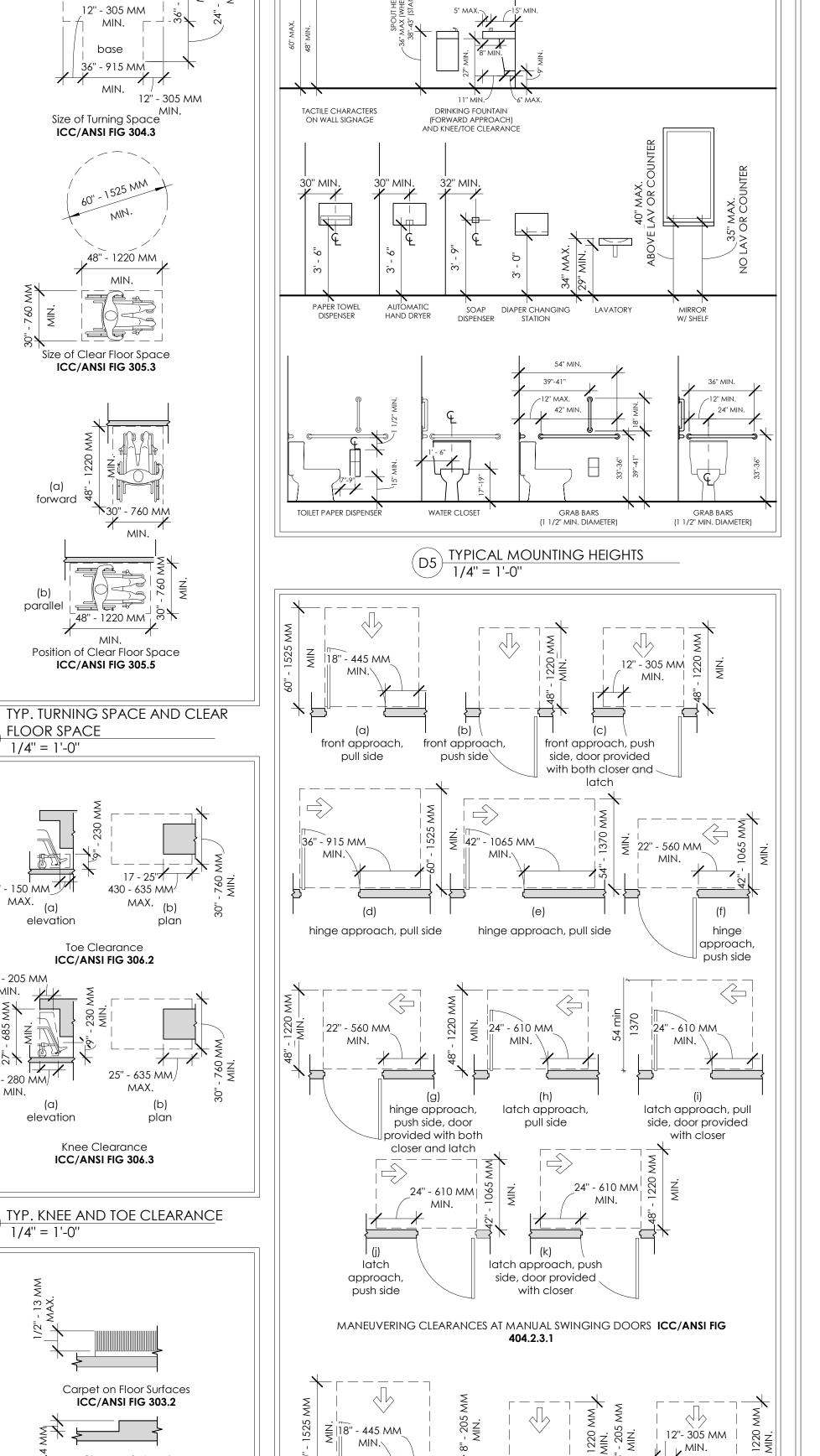
48" - 1220 MM | S

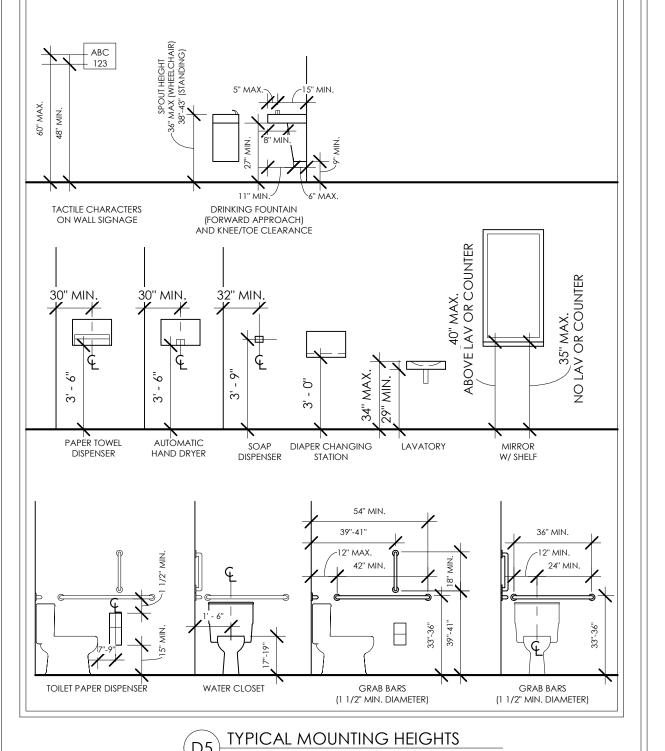
Position of Clear Floor Space

ICC/ANSI FIG 305.5

MIN. \_

12" - 305 MM







421

TYPICAL ACCESSIBLE

DETAILS

BERTOLDI

DATE

10/09/19

No. 135892 10/09/2019

REV.

PROJECT #

DATE:

TITLE:

ANY CHANGES OR MODIFICATIONS TO THE

DESIGN OF THE PROJECT IS TO BE PRESENTED

CONTRACTORS ARE TO BE FAMILIAR WITH ALL

PORTIONS OF THE WORK. IT IS TO BE NOTED

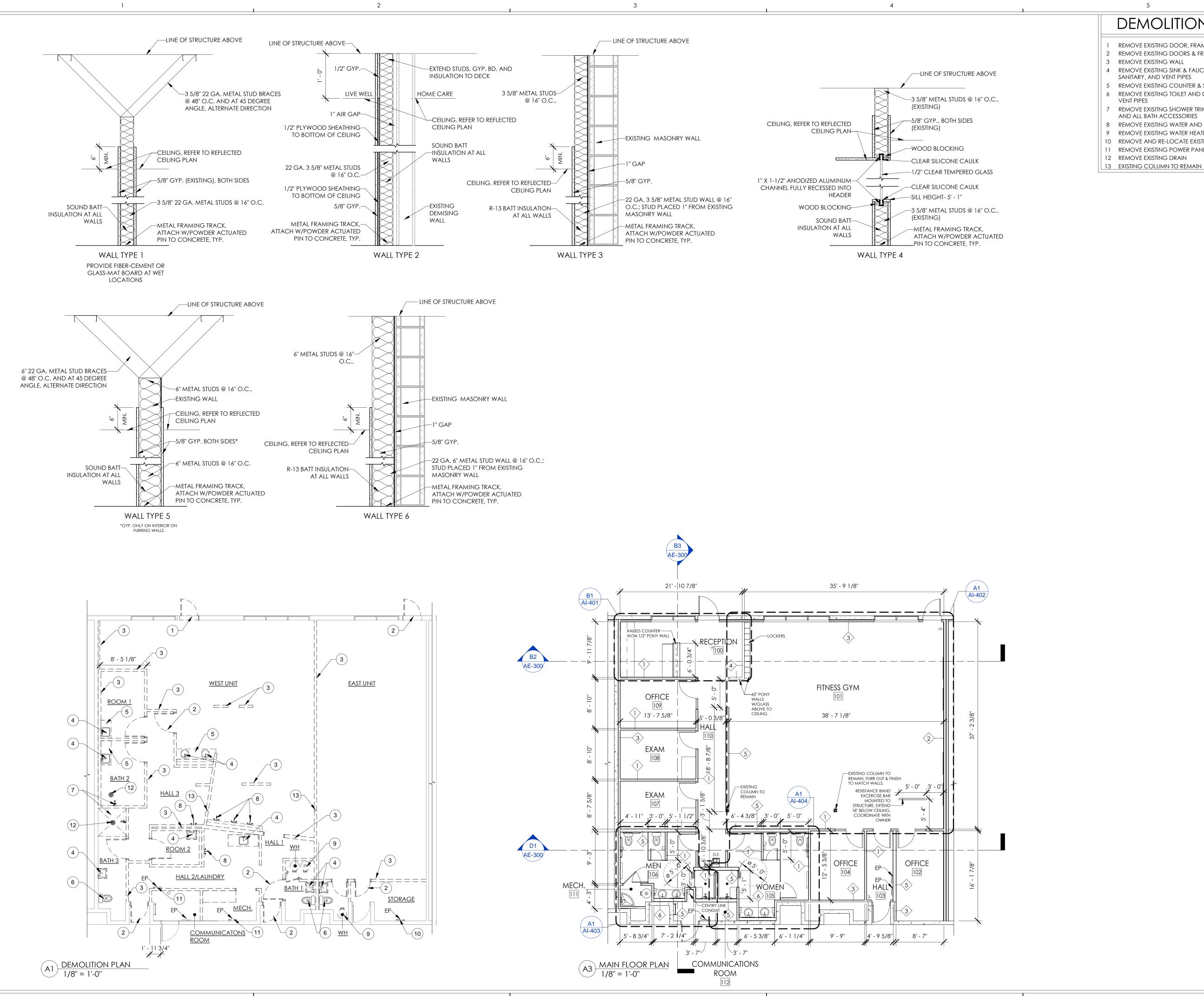
THE DRAWINGS MAY BE PART OF THEIR SCOPE

THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF

OF WORK AND/OR COORDINATION.

TO THE ARCHITECT FOR REVIEW AND

APPROVAL.



#### DEMOLITION NOTES

- REMOVE EXISTING DOOR, FRAME, AND TRANSOM 2 REMOVE EXISTING DOORS & FRAMES, RETURN TO OWNER
- 3 REMOVE EXISTING WALL
- 4 REMOVE EXISTING SINK & FAUCET AND CAP DCW, DHW,
- SANITARY, AND VENT PIPES 5 REMOVE EXISTING COUNTER & SHELVING
- 6 REMOVE EXISTING TOILET AND CAP DCW, SANITARY, AND
- 7 REMOVE EXISITNG SHOWER TRIM KIT, SHOWER SURROUND
- AND ALL BATH ACCESSORIES 8 REMOVE EXISTING WATER AND DRAIN STUB OUTS
- 9 REMOVE EXISTING WATER HEATER
- 10 REMOVE AND RE-LOCATE EXISTING POWER PANEL
- 11 REMOVE EXISTING POWER PANEL
- 12 REMOVE EXISTING DRAIN

#### GENERAL NOTES

A. ALL DIMENSIONS ARE TO ROUGH

FRAMING, UNLESS OTHERWISE NOTED (U.N.O.)

INSULATION

BOARD IS NOT PERMITTED. D. PROVIDE SOLID BLOCKING AS REQ'D FOR CABINETS, FIXTURES, EQUIPMENT AND

INCLUDING OWNERS ACCESSORIES AND EQUIPMENT.

F. REFER TO ENLARGED PLANS FOR INTERIOR ELEVATION REFERENCES.

H. FIRE EXTINGUISHERS TO BE PROVIDED PER

#### FLOOR PLAN LEGEND

WALL TYPE MARKER, REFER TO

DOOR MARKER

DETAIL MARKER

ROOM MARKER

B. ALL INTERIOR WALLS TO BE 20 GA. 3-5/8"

METAL STUDS @ 16" O.C. U.O.N. WITH 5/8" GWB BOTH SIDES U.O.N. W/SOUND BATT C. PROVIDE FIBER-CEMENT OR GLASS-MAT BOARD AT TILE AREAS OF SHOWER GREEN

ACCESSORIES AS REQ'D BY EACH

COMPONENTS MANUFACTURER,

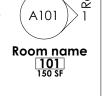
E. ALL DOORS SHALL BE INSTALLED 4" FROM WALL, U.N.O.

G. ALL LIGHT FIXTURES IN WET AREAS TO BE PROTECTED PER IRC 3903.10

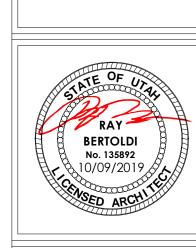
SHEET AE-101 FOR WALL TYPES

\A101\_ 101

EXTERIOR ELEVATION MARKER



田石



DATE

PROJECT # DATE: 10/09/19 DEMOLITION PLAN,

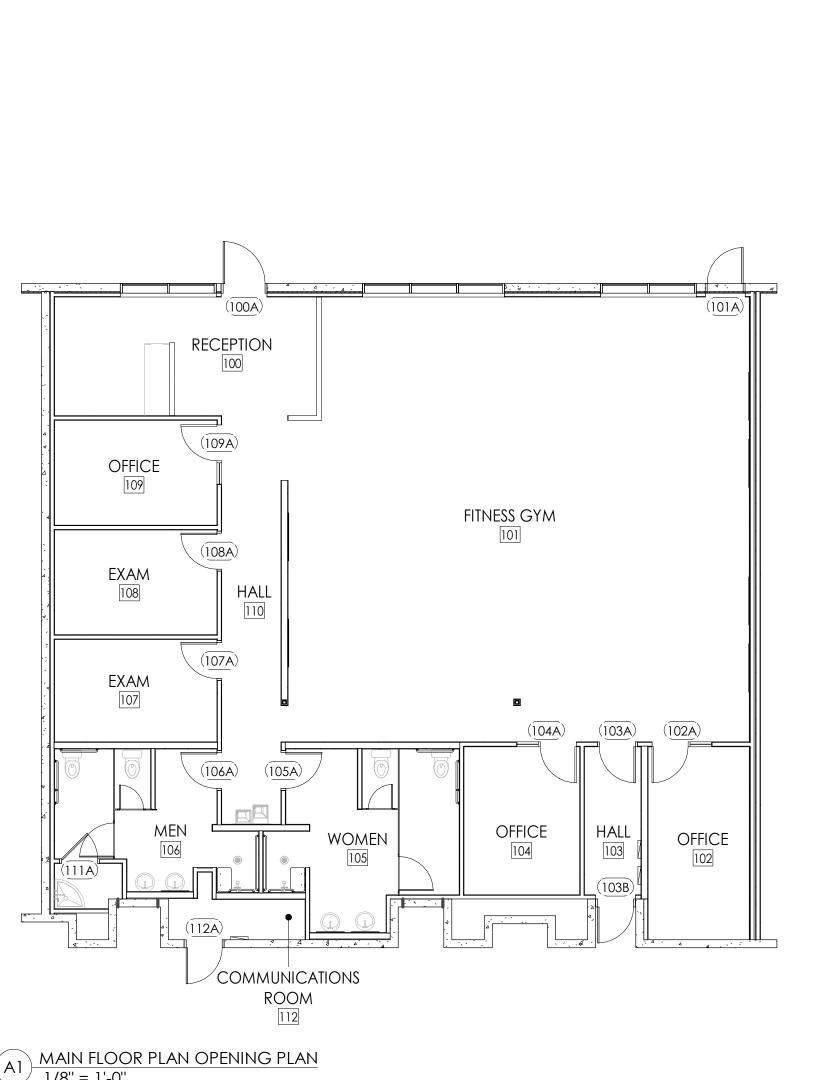
MAIN FLOOR PLAN, WALL TYPES

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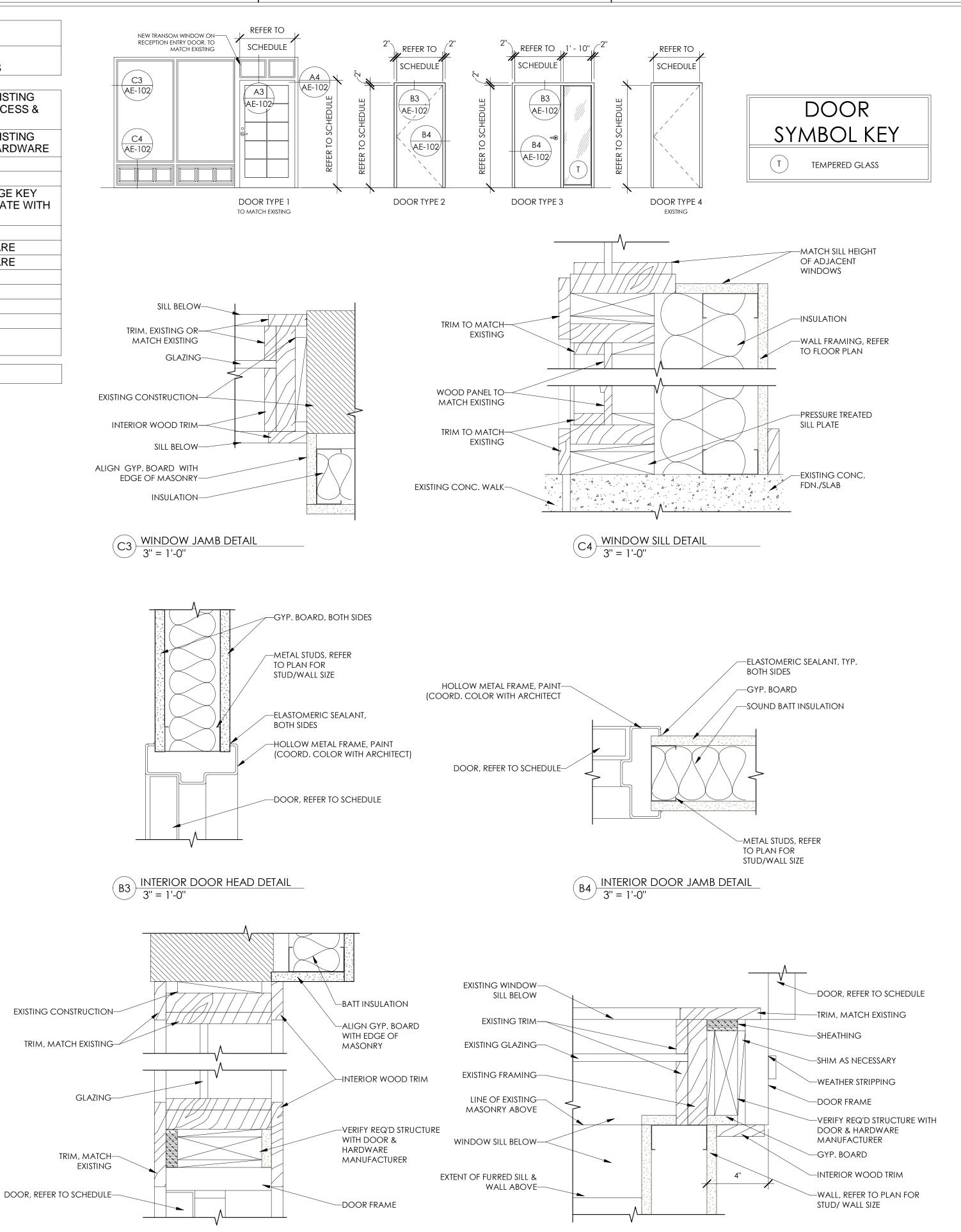
APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

					DOOR S	SCHED	ULE			
DOOR TAG	DOOR	ROOM	WIDTH	HEIGHT	DOOR		FRA	AME	HARDWARE	
DOOK TAG	TYPE	ROOM	חוטוייי	ПЕІВПІ	MATERIAL	FINISH	MATERIAL	FINISH	GROUP	REMARKS
100A	1	RECEPTION	3' - 6"	7' - 0"	WOOD	STAIN	WOOD	STAIN	5	DOOR TO MATCH EXISTING EXTERIOR. CARD ACCESS & PANIC HARDWARE
101A	1	FITNESS GYM	3' - 0"	7' - 0"	WOOD	STAIN	WOOD	STAIN	6	DOOR TO MATCH EXISTING EXTERIOR, PANIC HARDWARE
102A	3	OFFICE	5' - 4"	7' - 0"	WOOD	STAIN	HM	PAINT	2	LOCKSET
103A	2	HALL	3' - 0"	7' - 0"	WOOD	STAIN	HM	PAINT	1	LOCKSET
103B	4	HALL	3' - 0"	7' - 0"	METAL	EXISTING	EXISTING	EXISTING	EXISTING	MAY HAVE TO CHANGE KEY FUNCTION/COORDINATE WITH OWNER
104A	3	OFFICE	5' - 4"	7' - 0"	WOOD	STAIN	HM	PAINT	2	LOCKSET
105A	2	WOMEN	3' - 0"	7' - 0"	WOOD	STAIN	HM	PAINT	3	PUSH PULL HARDWARE
106A	2	MEN	3' - 0"	7' - 0"	WOOD	STAIN	HM	PAINT	3	PUSH PULL HARDWARE
107A	2	EXAM	3' - 0"	7' - 0"	WOOD	STAIN	HM	PAINT	4	PASSAGE
108A	2	EXAM	3' - 0"	7' - 0"	WOOD	STAIN	HM	PAINT	4	PASSAGE
109A	3	OFFICE	5' - 4"	7' - 0"	WOOD	STAIN	HM	PAINT	2	LOCKSET
111A	2	MECH.	3' - 0"	7' - 0"	WOOD	STAIN	HM	PAINT	1	LOCKSET
112A	4	COMMUNICATION S ROOM	3' - 0"	7' - 0"	METAL	EXISTING	EXISTING	EXISTING	EXISTING	EXISITNG

\*REFER TO DOORS & FRAME NOTES ON THIS PAGE FOR MANUFACTURER'S REQUIREMENTS.







A4 EXTERIOR DOOR JAMB DETAIL

3" = 1'-0"

A3 EXTERIOR DOOR HEAD DETAIL
3" = 1'-0"

#### DOOR NOTES

1. REFER TO DEMOLITION PLAN FOR EXISTING DOORS & WINDOWS THAT ARE TO BE REMOVED/SALVAGED.

2. NEW WINDOWS ARE TO MATCH ADJACENT WINDOWS IN STYLE, HEIGHT

3. CARD ACCESS BY OWNER.

AND COLOR.

#### DOOR & FRAMES

1. <u>HOLLOW METAL FRAMES</u>: STEEL CRAFT 16 GA. WITH WELDED CORNERS.

2. DOORS: MARSHFIELD: ROTARY CUT NATURAL BIRCH 5PLY PARTICLE CORE DOORS STAINED FACTORY FINISH.

3. THRESHOLD: WHERE APPLIES

## HARDWARE

The following schedule is furnished for whatever assistance it may afford the Contractor; do not consider it as entirely inclusive. Should any particular door or item be omitted in any scheduled hardware heading, provide door or item with hardware same as required for similar purposes. Hardware supplier is responsible for handing and sizing all products as listed in the hardware heading. Quantities listed are for each pair of doors, or for each single

Contractor to provide submittals in electronic format for Architect's review.

Manufacturer's Abbreviations: 1.Storeroom L9080R 17B C125 Keyway, 626

2.Office L9050R 17B C125 Keyway, 626

3. Restroom Pull Handle and Pull Plate-Hager 33G 3.5"x15" US32D, Restroom Push Plate- Hager 30S 3.5"x15" US32D.

4. Passage L9010 17B 626

5. Lockset L9453R 17B C125 Keyway with Card Access and Panic Hardware

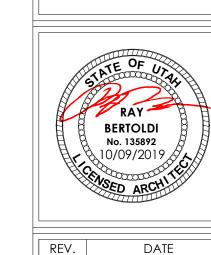
6. Lockset L9453R 17B C125 Keyway and Panic Hardware

Locksets – Schlage Mortise Hinges – McKinney TA2714 26D Wall Stop – Hager 236W US26D Electric Strike - SDC 55-CU 630 Overhead Stop – Glynn-Johnson 450 series Silencers - No preference Closers – LCN 4010 Pull side 4111 EDA Push

Kick plates – No preference Smoke Seal – Pemko S88D

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421

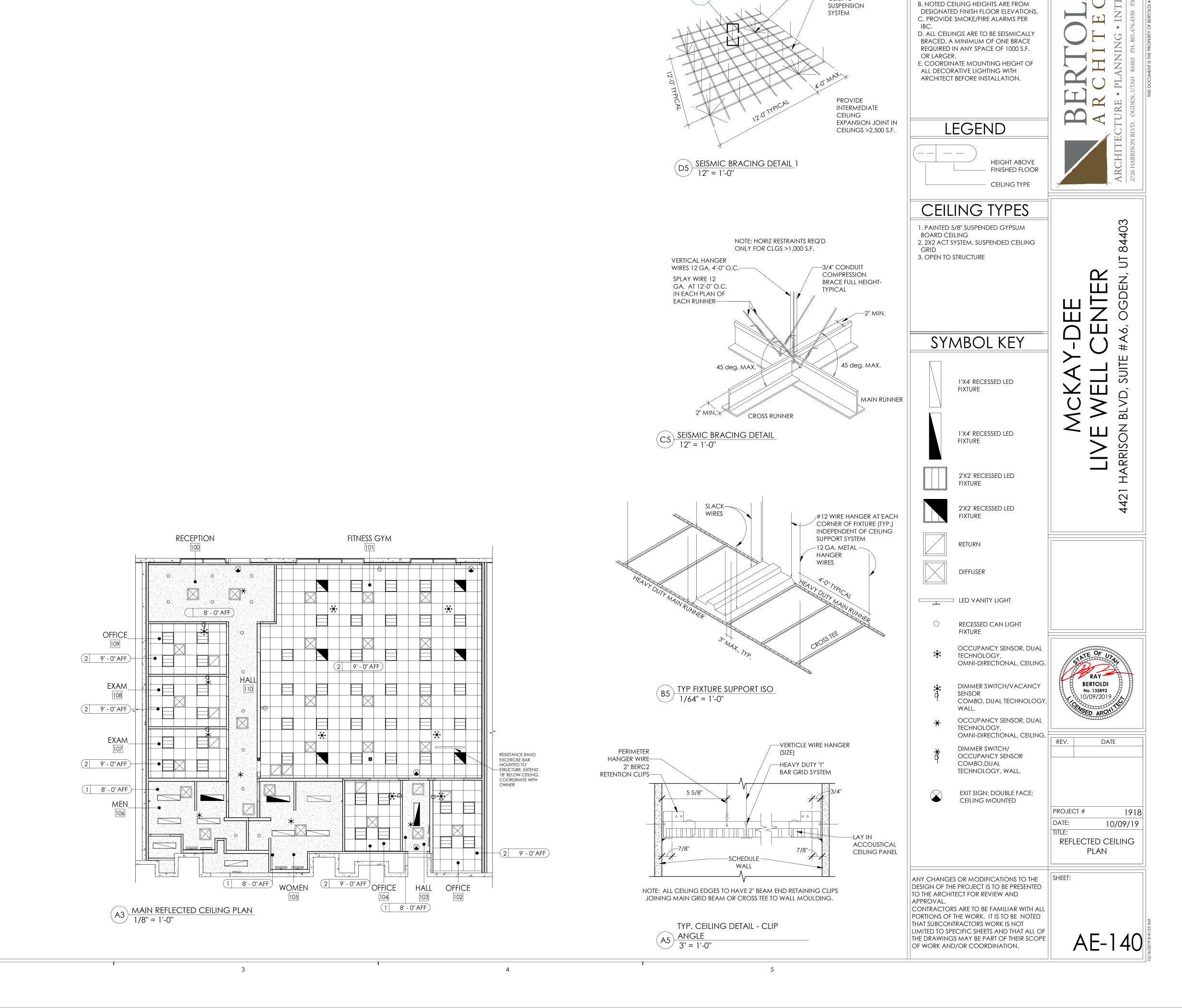


REV.

PROJECT # DATE: 10/09/19 OPENINGS & DETAILS

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GENERAL NOTES

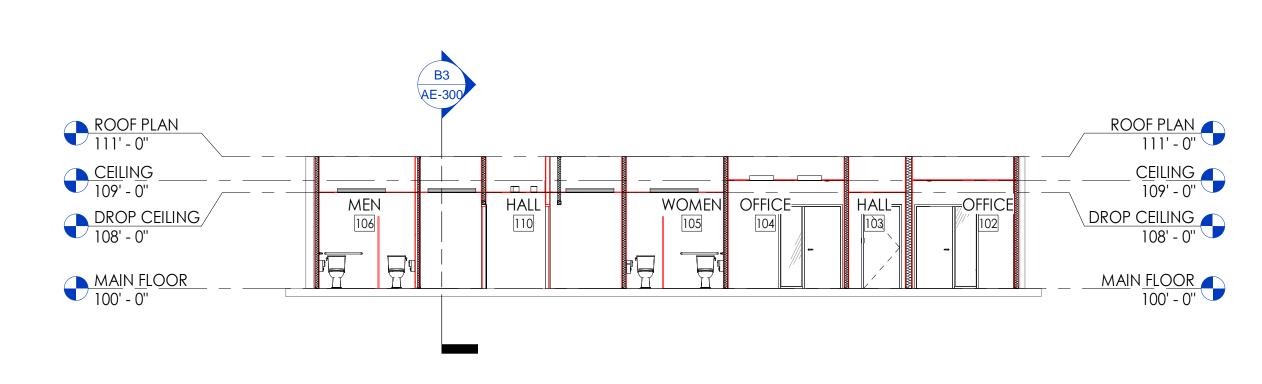
A. CEILING HEIGHTS ARE APPROXIMATE.
REFER TO BUILDING SECTIONS FOR

STRUCTURE BEARING HEIGHTS.

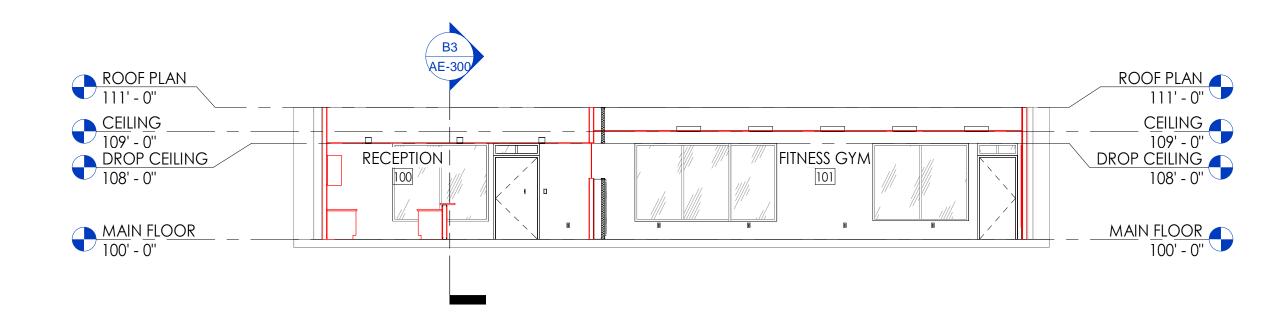
—FIRST LINE OF BRACING 4'-0" OR LESS FROM WALL

BOUNDARY

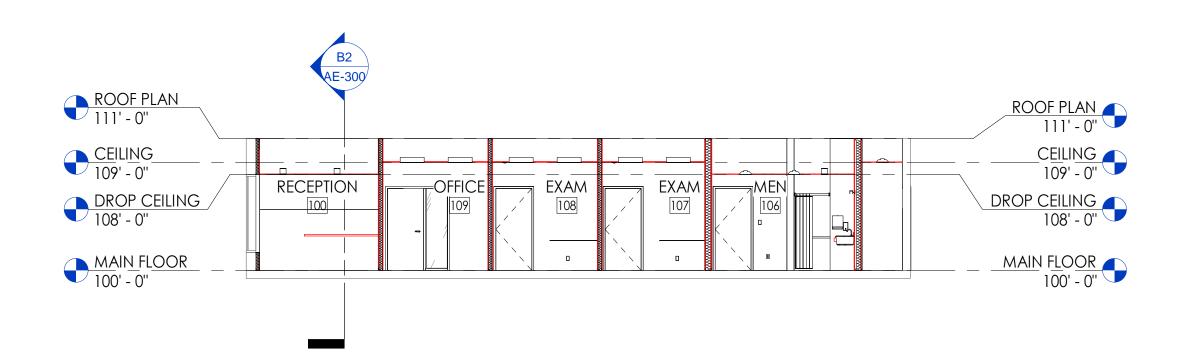
-CEILING



D1 BUILDING SECTION
1/8" = 1'-0"



BUILDING SECTION
1/8" = 1'-0"



B3 BUILDING SECTION
1/8" = 1'-0"

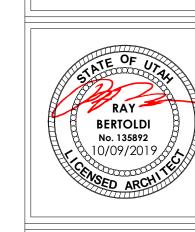
#### GENERAL NOTES

- A. REFER TO STRUCTURAL DRAWINGS FOR FOOTING AND FOUNDATION SIZES.
  B. PROVIDE FLASHING AND
  COUNTERFLASHING FOR ALL WINDOWS,
  DOORS, AND PENETRATIONS TO ROOF AND
- WALLS. C. FIELD VERIFY ALL WINDOW AND DOOR
- C. HELD VERIFY ALL WINDOW AND DOOR
  OPENINGS.
  D. PROVIDE FOUNDATION WATERPROOFING
  AT ALL CONCRETE BELOW GRADE.
  E. REFER TO OPENING SCHEDULE FOR DOOR
  AND WINDOW REQUIREMENTS.
  F. REFER TO GRADING PLAN FOR FINISH
  GRADE ELEVATION.
- G. PROVIDE MOCK-UP OF ALL EXTERIOR
  FINISHES PRIOR TO INSTALLATIONS FOR
  ARCHITECT'S APPROVAL. FINISHES ARE NOT
  TO BE INSTALLED WITHOUT APPROVAL.



KEYED NOTES -...

ENTER 4421



DATE REV.

PROJECT # DATE: 10/09/19 TITLE: **BUILDING SECTIONS** 

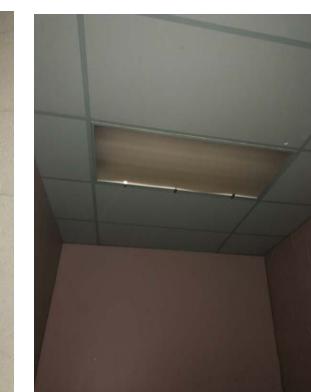
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EAST UNIT-BATH 1









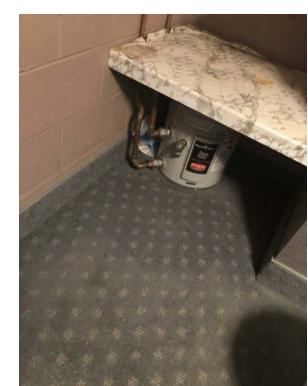


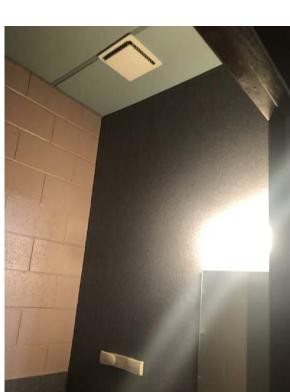
EAST UNIT-MAIN ROOM

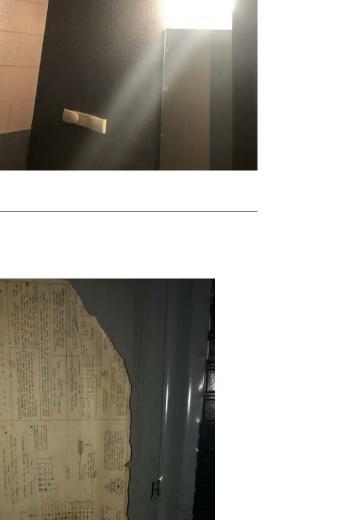














EAST UNIT

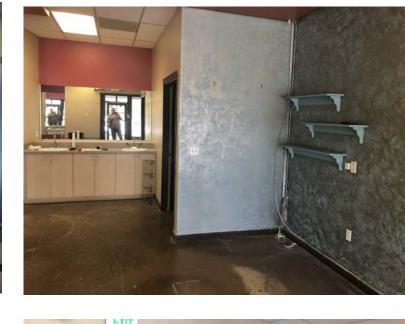
4421

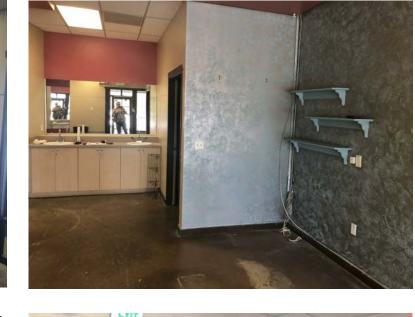
DATE

PROJECT #

10/09/19 EAST UNIT EXISTING PHOTOS











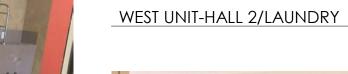


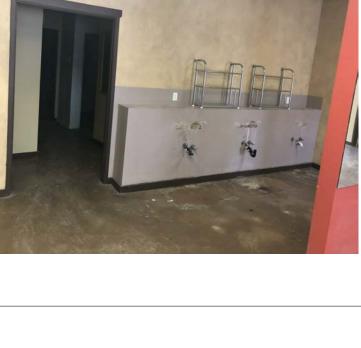




















WEST UNIT-MAIN ROOM







WEST UNIT-HALL 1













WEST UNIT-BATH 1/WH

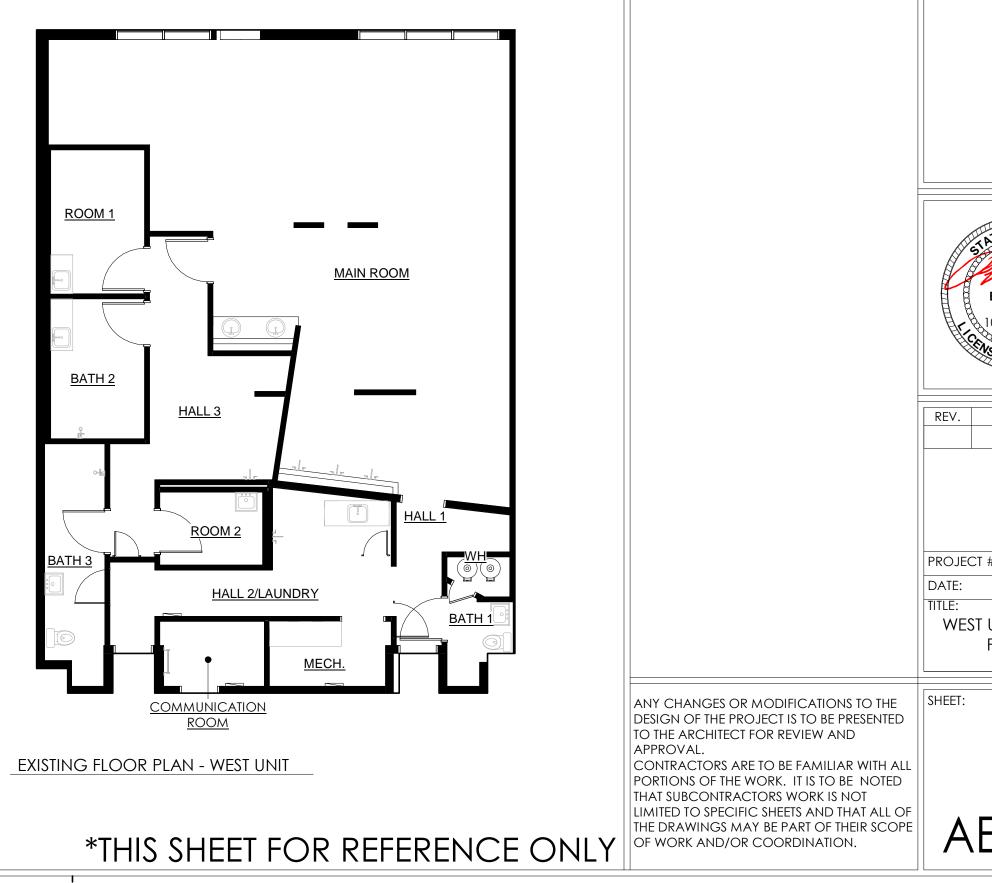








WEST UNIT-MECH.



EXISTING FLOOR PLAN - WEST UNIT

DATE

PROJECT # 10/09/19 WEST UNIT EXISTING PHOTOS

WEST UNIT-HALL 2/LAUNDRY

\*THIS SHEET FOR REFERENCE ONLY

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CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

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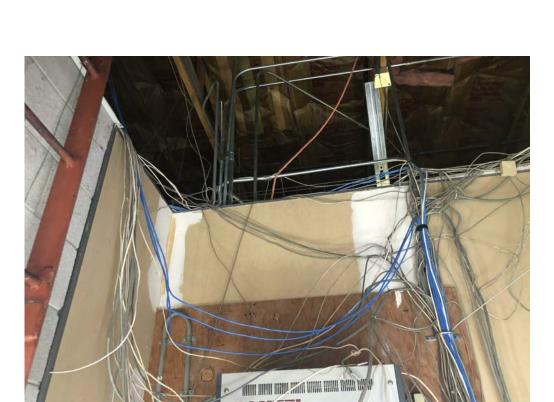
ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED
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APPROVAL.

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THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DESIGN OF THE PROJECT IS TO BE PROSENTED
TO THE ARCHITECT FOR REVIEW AND
APPROVAL.

PROJECT #

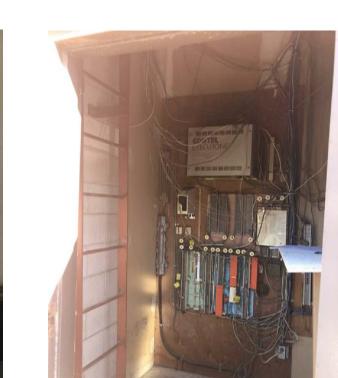
DATE

WEST UNIT EXISTING



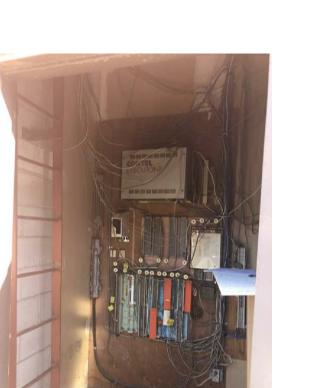








-CENTRY LINK CONDUIT TO STAY

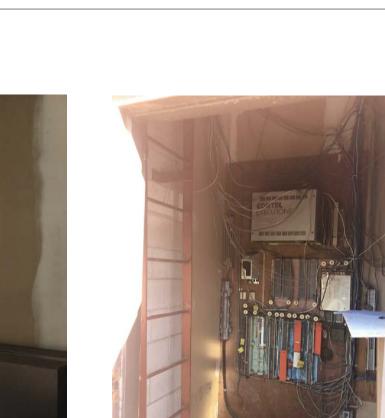






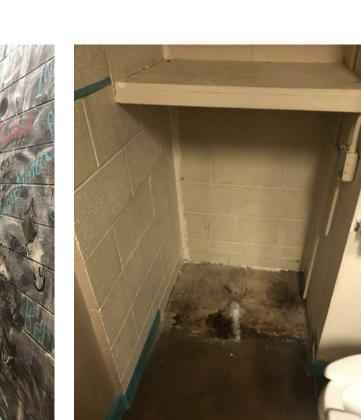






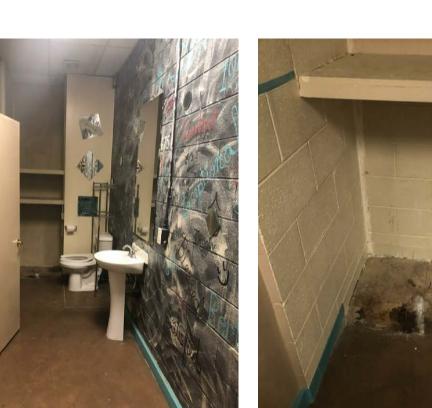


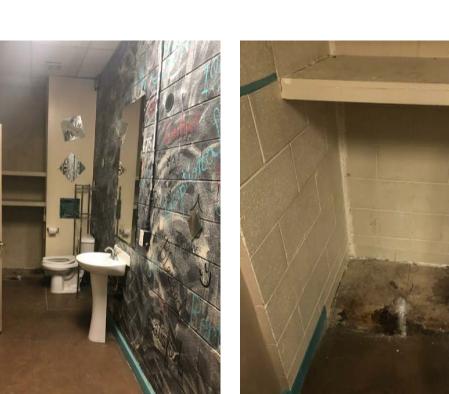






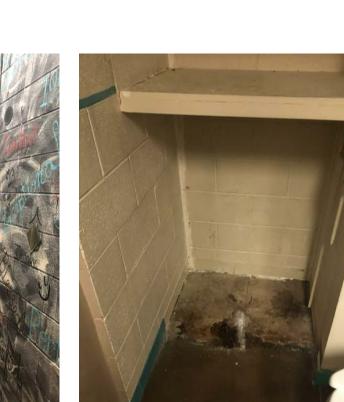


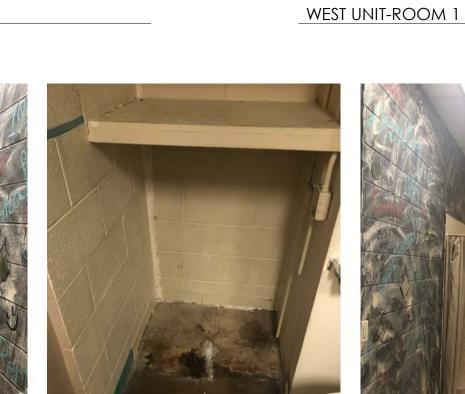


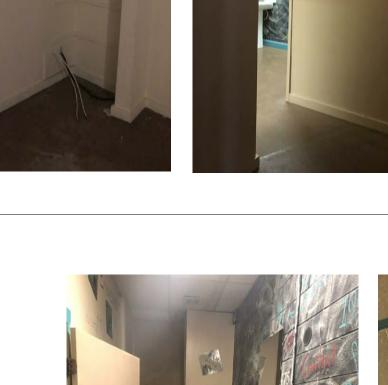
















WEST UNIT-BATH 2



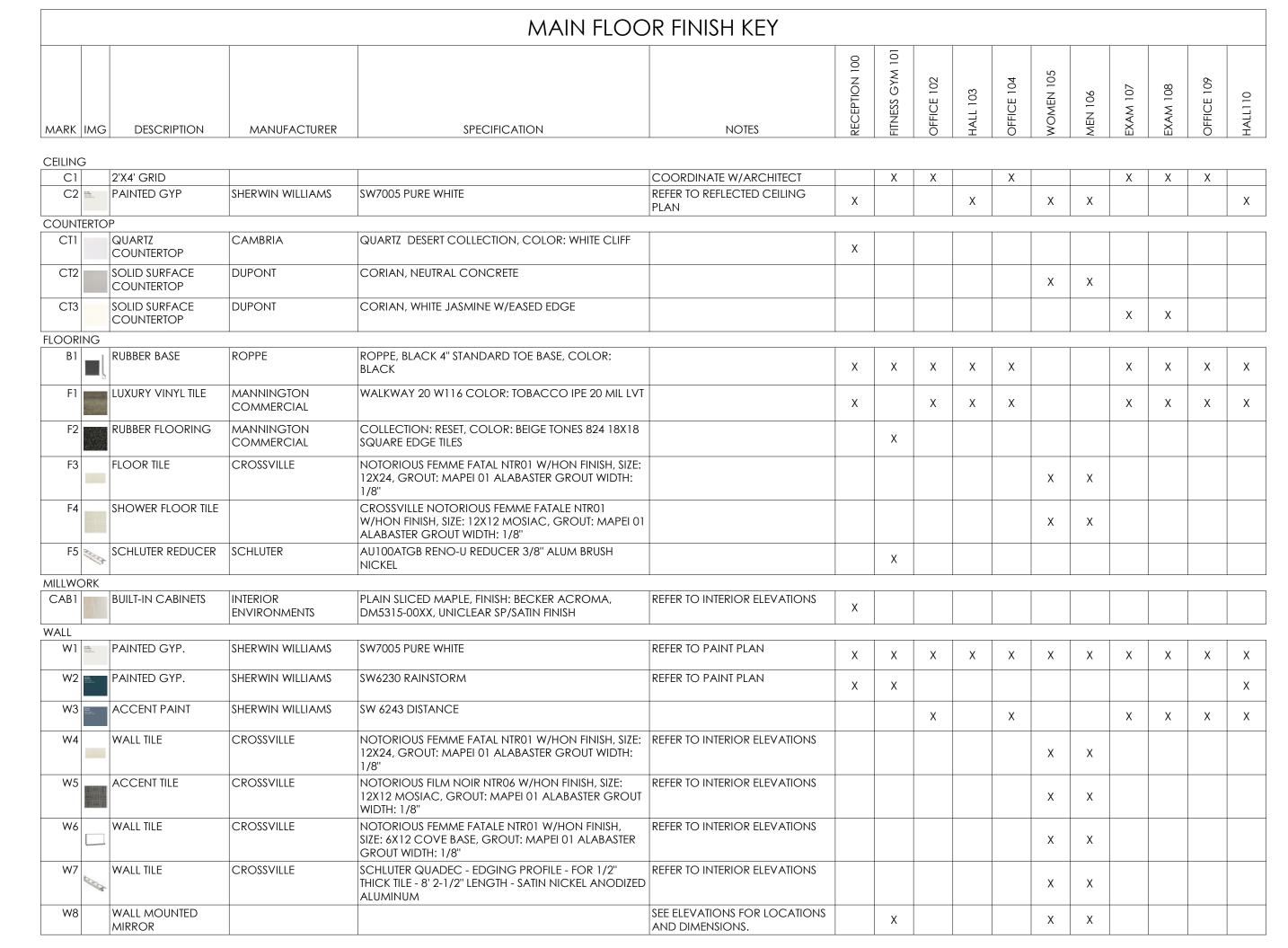




WEST UNIT-HALL 1

WEST UNIT-ROOM 2

WEST UNIT-COMMUNICATION ROOM





A3 PAINT PLAN
1/8" = 1'-0"

HALL 5'-0" X 12'-3" 53 SF

OFFICE 9'-8" X 12'-3" 119 SF

RECEPTION 22'-11" X 10 -1" -221 SF

OFFICE 13'-6" X 8'-9"-

118 SF

<u>MEN</u> 13'-6" X 12

A1 FINISH FLOOR PLAN
1/8" = 1'-0"

EXAM 13'-6" X 8'-9" 118-SF

EXAM 13'-6' X 8-'9' 115.SE



GENERAL NOTES

A. ALL DIMENSIONS ARE TO ROUGH FRAMING UNLESS OTHERWISE NOTED

(U.N.O.) B. VERIFY ALL FINISHES, FIXTURES AND EQUIPMENT WITH ARCHITECT. C. PROVIDE FIBER-CEMENT OR GLASS-MAT BOARD AT WET LOCATIONS. GREEN BOARD IS NOT PERMITTED. D. PROVIDE SOLID BLOCKING AS REQUIRED FOR CABINETS, FIXTURES EQUIPMENT AND ACCESSORIES AS REQUIRED BY EACH COMPONENT'S MANUFACTURER, INCLUDING OWNER'S ACCESSORIES AND

EQUIPMENT. E. ALL INTERIOR WALLS TO BE 3-5/8" METAL STUDS U.O.N. WITH 5/8" GWB ON BOTH SIDES U.O.N. F. ALL INTERIOR DOORS TO BE INSTALLED 4"

FROM WALLS U.O.N. G. CONTRACTOR TO COORDINATE PAINT COLOR AND LOCATIONS WITH OWNER AND ARCHITECT. H. REFER TO AG-003 FOR TYPICAL MOUNTING HEIGHTS.

NTER

SYMBOL KEY

F1-LUXURY VINYL TILE

F2-RUBBER

**FLOORING** 

<By Category>

F3-FLOOR TILE

4421

F4-SHOWER FLOOR TILE

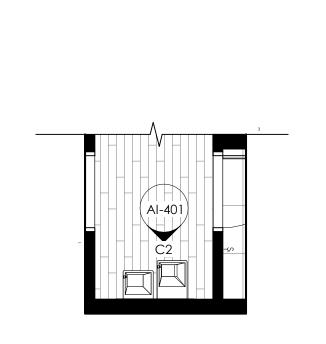
> **BERTOLDI** No. 135892

> > DATE

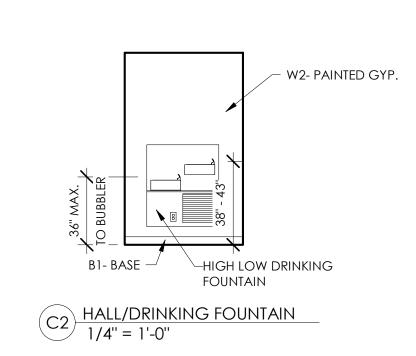
PROJECT # 10/09/19 FINISH FLOOR PLAN

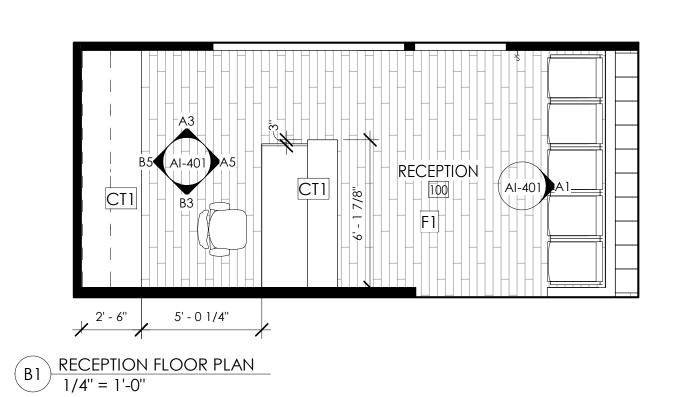
ANY CHANGES OR MODIFICATIONS TO THE SHEET: DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND

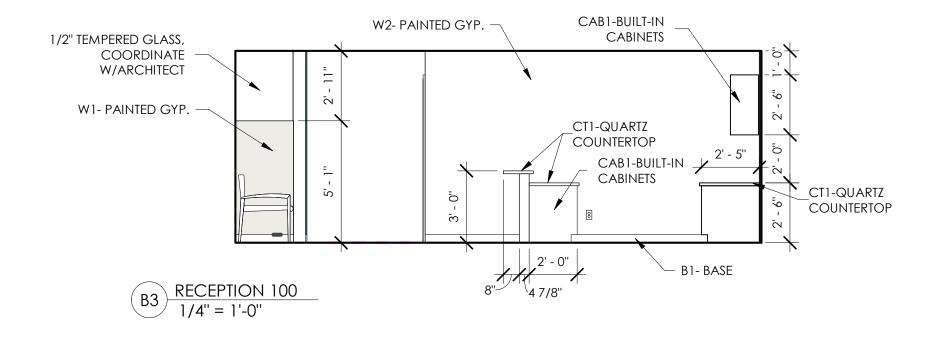
APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

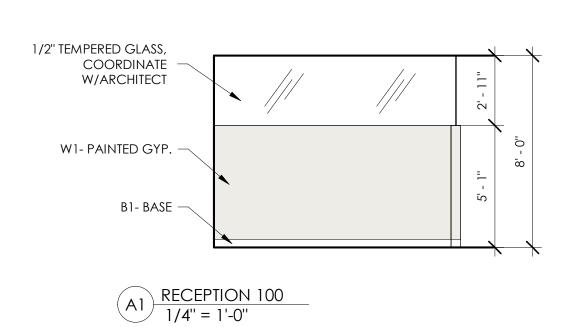


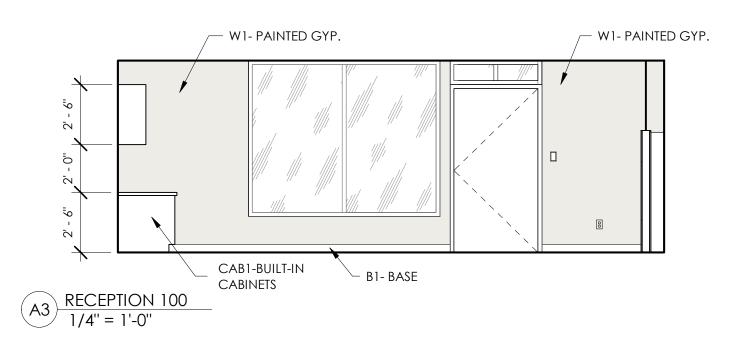
C1 DRINKING FOUNTAIN
1/4" = 1'-0"

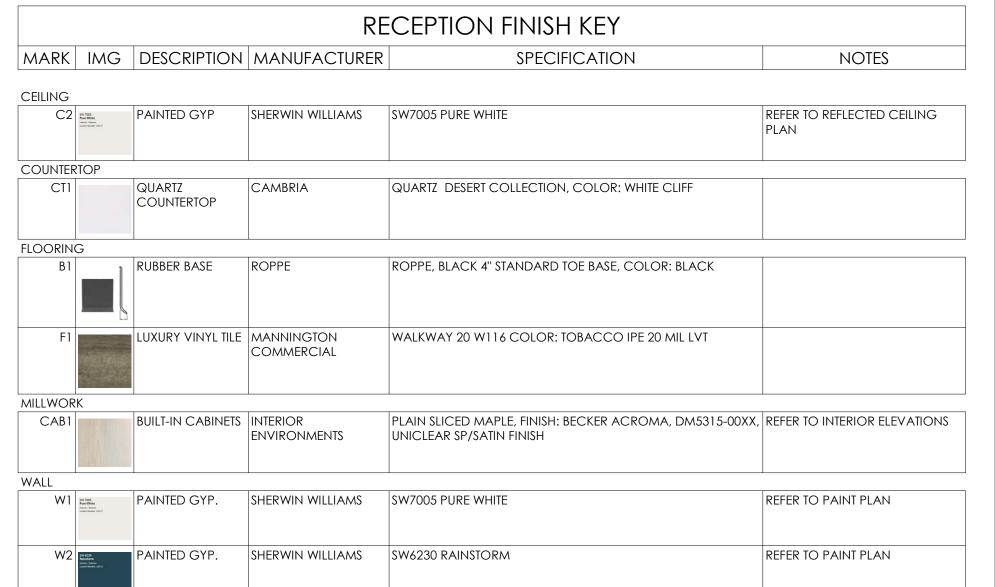


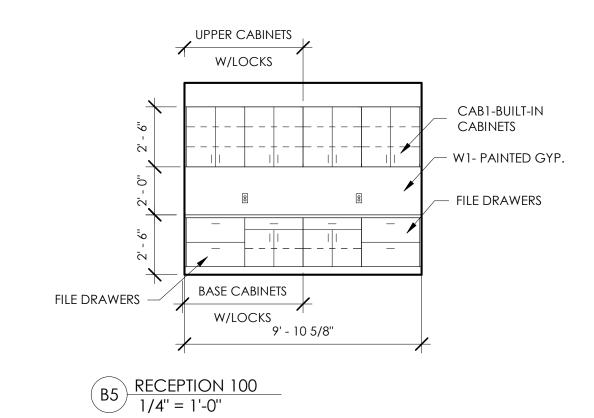


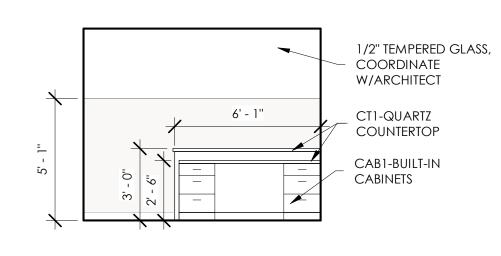












A5 100-2 RECEPTION 1/4" = 1'-0"

#### GENERAL NOTES

A. ALL DIMENSIONS ARE TO ROUGH FRAMING UNLESS OTHERWISE NOTED

(U.N.O.)
B. VERIFY ALL FINISHES, FIXTURES AND
EQUIPMENT WITH ARCHITECT.
C. PROVIDE FIBER-CEMENT OR GLASS-MAT
BOARD AT WET LOCATIONS. GREEN
BOARD IS NOT PERMITTED.

BOARD IS NOT PERMITTED.

D. PROVIDE SOLID BLOCKING AS REQUIRED FOR CABINETS, FIXTURES EQUIPMENT AND ACCESSORIES AS REQUIRED BY EACH COMPONENT'S MANUFACTURER, INCLUDING OWNER'S ACCESSORIES AND EQUIPMENT.

EQUIPMENT.

E. ALL INTERIOR WALLS TO BE 3-5/8" METAL STUDS U.O.N. WITH 5/8" GWB ON BOTH SIDES U.O.N.

F. ALL INTERIOR DOORS TO BE INSTALLED 4"
FROM WALLS U.O.N.
G. CONTRACTOR TO COORDINATE PAINT
COLOR AND LOCATIONS WITH OWNER
AND ARCHITECT.
H. REFER TO AG-003 FOR TYPICAL
MOUNTING HEIGHTS.



MCKAY-DEE

/E WELL CENTER

4421



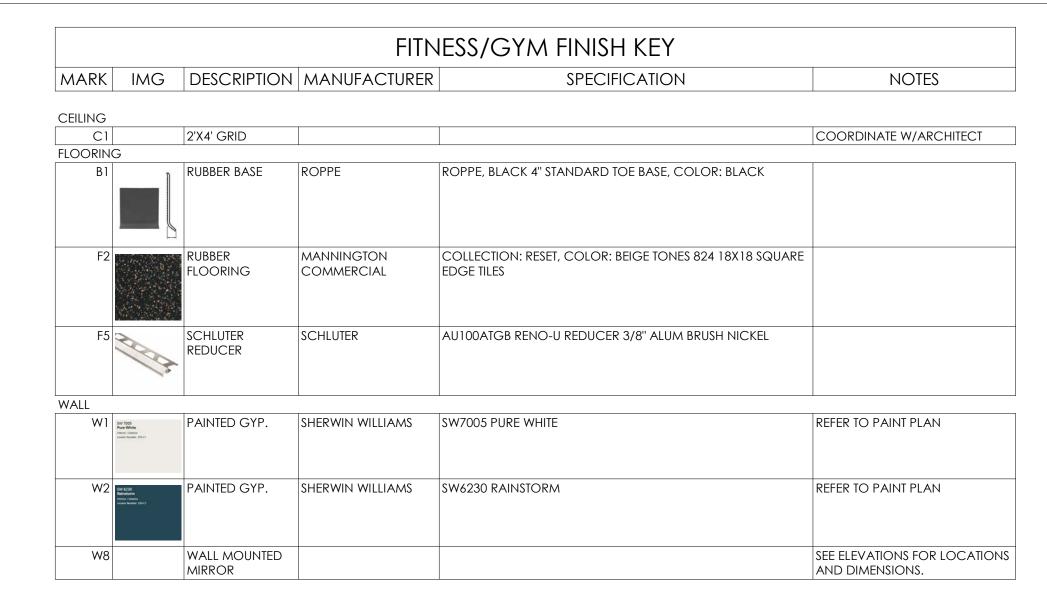
PROJECT # 19

DATE: 10/09/19
TITLE:
RECEPTION/DRINKING
FOUNTAIN ENLARGED
PLAN/ELEVATIONS

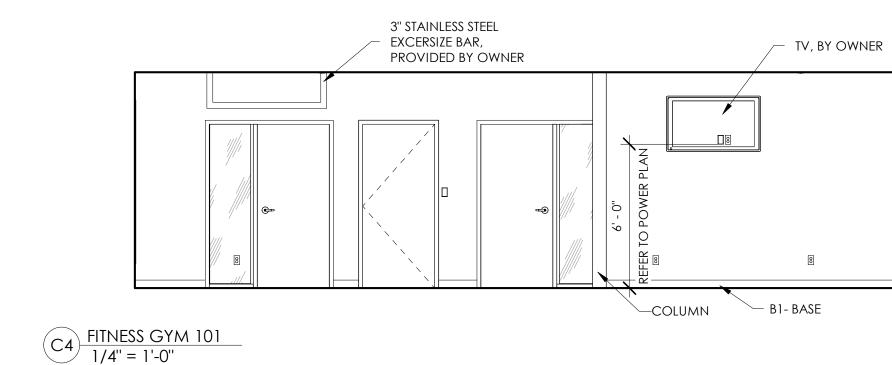
ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND

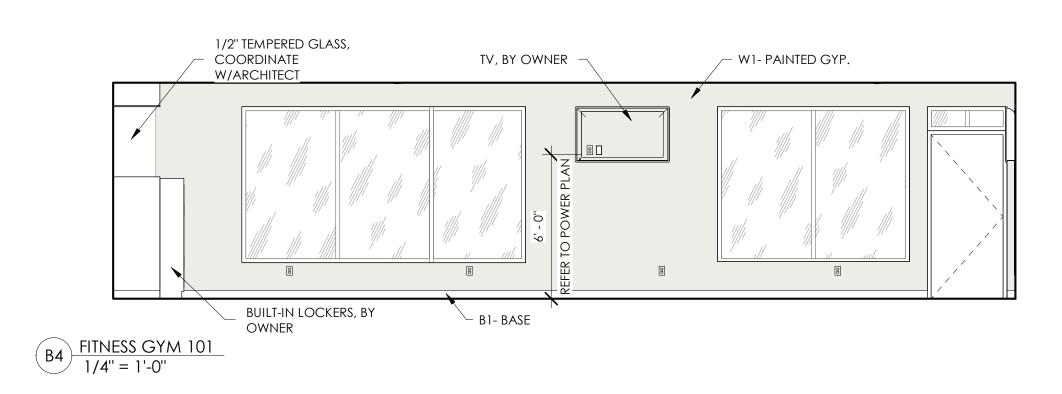
APPROVAL.
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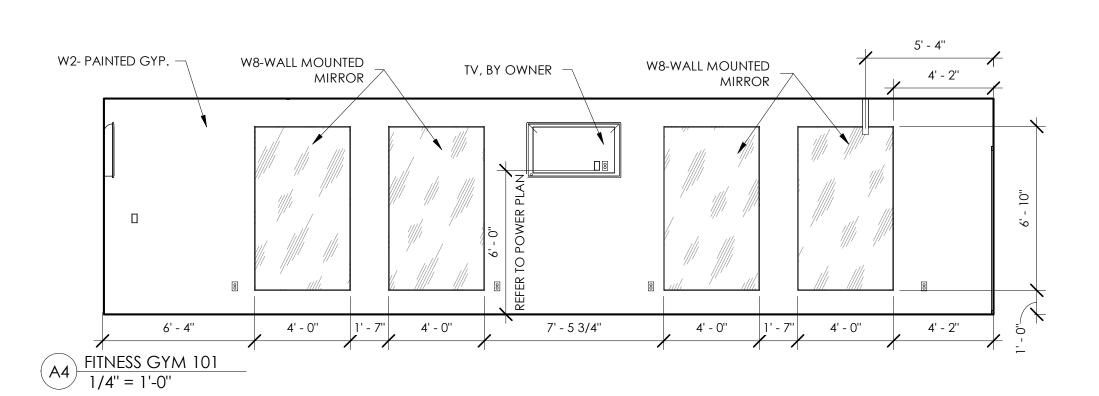
AI-40



\_ TV, BY OWNER







GENERAL NOTES

A. ALL DIMENSIONS ARE TO ROUGH FRAMING UNLESS OTHERWISE NOTED

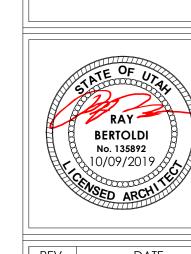
(U.N.O.) B. VERIFY ALL FINISHES, FIXTURES AND EQUIPMENT WITH ARCHITECT. C. PROVIDE FIBER-CEMENT OR GLASS-MAT BOARD AT WET LOCATIONS. GREEN

BOARD IS NOT PERMITTED. D. PROVIDE SOLID BLOCKING AS REQUIRED FOR CABINETS, FIXTURES EQUIPMENT AND ACCESSORIES AS REQUIRED BY EACH COMPONENT'S MANUFACTURER, INCLUDING OWNER'S ACCESSORIES AND EQUIPMENT.

E. ALL INTERIOR WALLS TO BE 3-5/8" METAL STUDS U.O.N. WITH 5/8" GWB ON BOTH SIDES U.O.N. F. ALL INTERIOR DOORS TO BE INSTALLED 4"

FROM WALLS U.O.N. G. CONTRACTOR TO COORDINATE PAINT COLOR AND LOCATIONS WITH OWNER AND ARCHITECT. H. REFER TO AG-003 FOR TYPICAL MOUNTING HEIGHTS.

4421

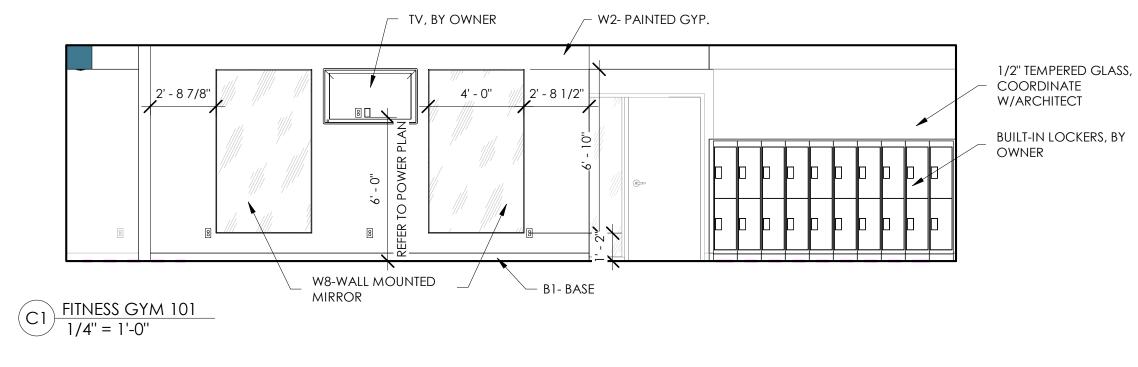


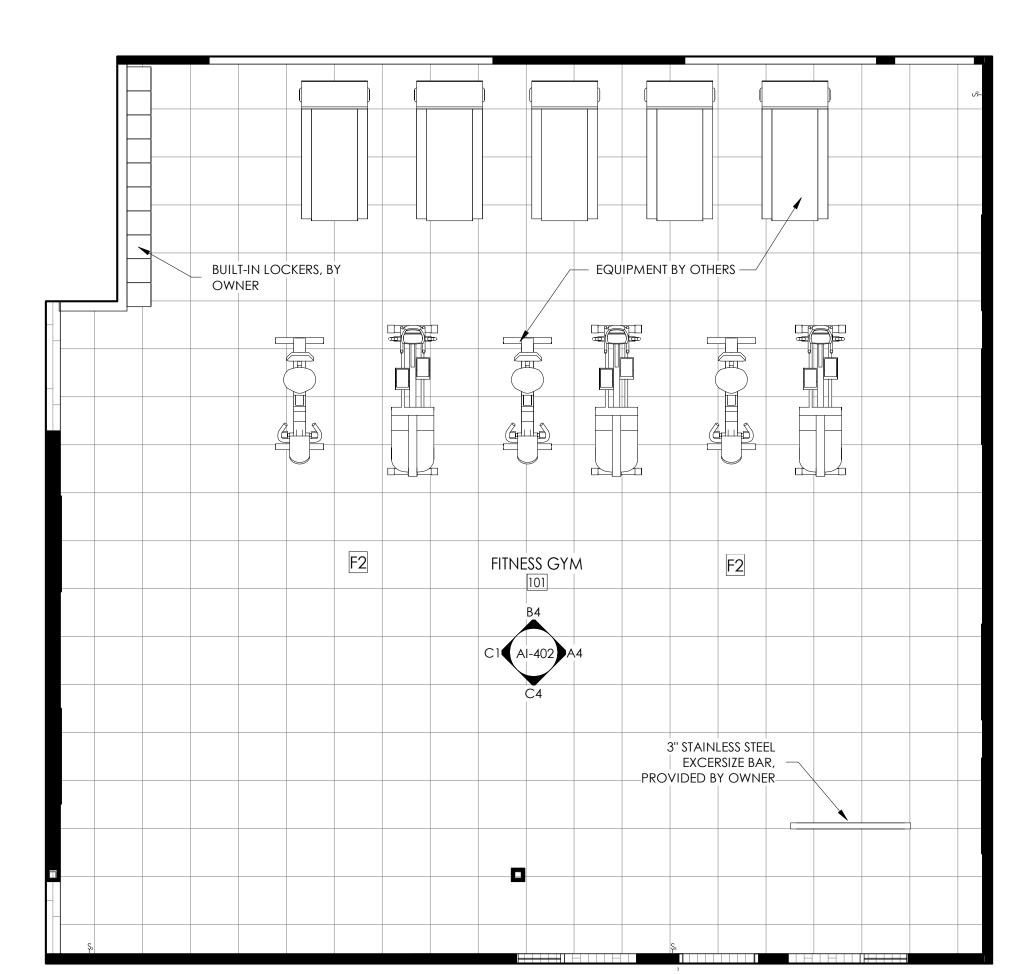
DATE

PROJECT # DATE: 10/09/19 FITNESS GYM ENLARGED PLAN/ELEVATIONS

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A1 FINTESS GYM
1/4" = 1'-0"





GENERAL NOTES

A. ALL DIMENSIONS ARE TO ROUGH

(U.N.O.)

EQUIPMENT.

SIDES U.O.N.

FROM WALLS U.O.N.

MOUNTING HEIGHTS.

AND ARCHITECT.

FRAMING UNLESS OTHERWISE NOTED

B. VERIFY ALL FINISHES, FIXTURES AND

C. PROVIDE FIBER-CEMENT OR GLASS-MAT BOARD AT WET LOCATIONS. GREEN

D. PROVIDE SOLID BLOCKING AS REQUIRED

FOR CABINETS, FIXTURES EQUIPMENT AND

INCLUDING OWNER'S ACCESSORIES AND

E. ALL INTERIOR WALLS TO BE 3-5/8" METAL

STUDS U.O.N. WITH 5/8" GWB ON BOTH

F. ALL INTERIOR DOORS TO BE INSTALLED 4"

G. CONTRACTOR TO COORDINATE PAINT

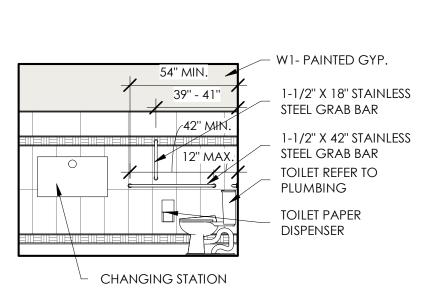
COLOR AND LOCATIONS WITH OWNER

H. REFER TO AG-003 FOR TYPICAL

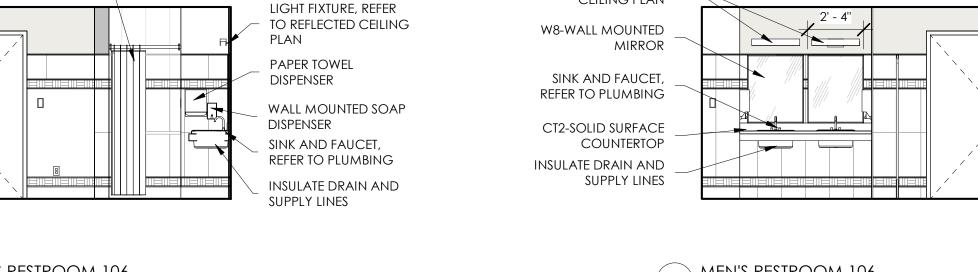
ACCESSORIES AS REQUIRED BY EACH COMPONENT'S MANUFACTURER,

EQUIPMENT WITH ARCHITECT.

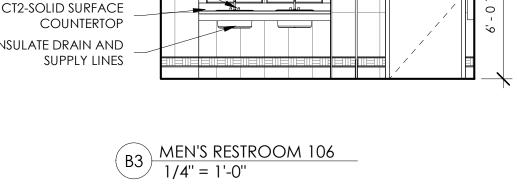
BOARD IS NOT PERMITTED.

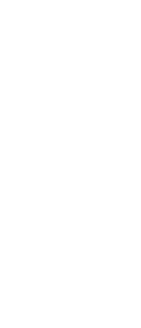


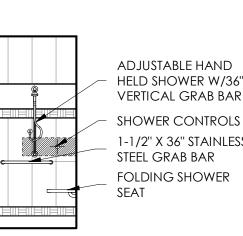




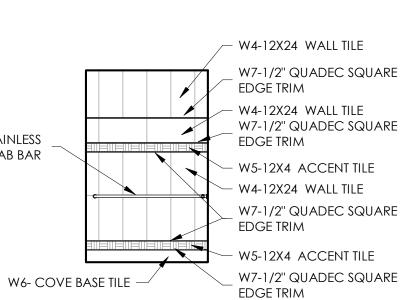












A3 MEN'S RESTROOM 106 1/4" = 1'-0"

A4 MEN'S RESTROOM 106 1/4" = 1'-0"

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BERTOLDI No. 135892

REV.

PROJECT #

DATE:

TITLE:

DATE

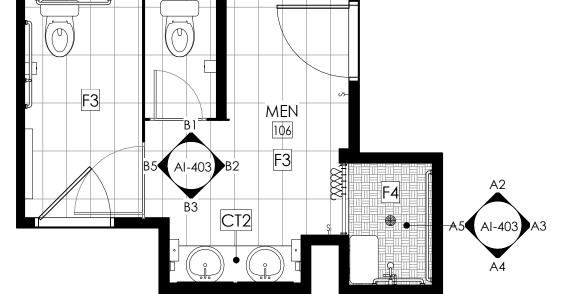
10/09/19

MEN'S RESTROOM

ENLARGED

PLANS/ELEVATIONS

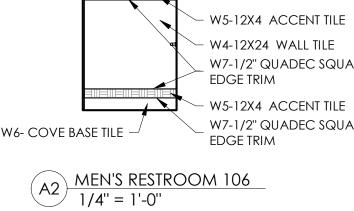
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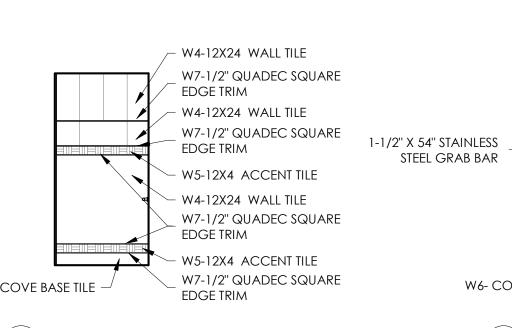


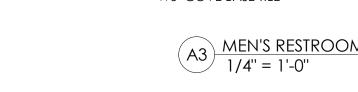
W6- COVE BASE TILE -

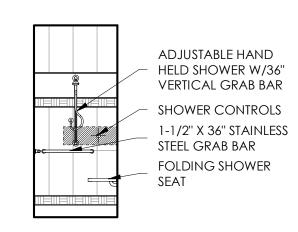
B1 MEN'S RESTROOM 106
1/4" = 1'-0"













A5 MEN'S RESTROOM 106
1/4" = 1'-0"

A1 MEN'S RESTROOM 1/06
1/4" = 1'-0"

W1- PAINTED GYP.

1-1/2" X 18" STAINLESS

1-1/2" X 36" STAINLESS

STEEL GRAB BAR

STEEL GRAB BAR

**TOILET PAPER** 

TOILET REFER TO

DISPENSER

PLUMBING

W5-12X4 ACCENT TILE W7-1/2" QUADEC SQUARE

W7-1/2" QUADEC SQUARE

W7-1/2" QUADEC SQUARE

W7-1/2" QUADEC SQUARE

W5-12X4 ACCENT TILE

W4-12X24 WALL TILE

- W4-12X24 WALL TILE

EDGE TRIM

EDGE TRIM

EDGE TRIM

EDGE TRIM

B2 MEN'S RESTROOM 106
1/4" = 1'-0"

SHOWER CURTAIN &

ROD

LIGHT FIXTURE, REFER TO REFLECTED **CEILING PLAN** 

W4-12X24 WALL TILE -- W1- PAINTED GYP. W7-1/2" QUADEC SQUARE EDGE TRIM SHOWER CURTAIN & ADJUSTABLE HAND HELD SHOWER W/36" VERTICAL GRAB BAR FOLDING SHOWER SEAT

#### GENERAL NOTES

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B. VERIFY ALL FINISHES, FIXTURES AND EQUIPMENT WITH ARCHITECT. C. PROVIDE FIBER-CEMENT OR GLASS-MAT BOARD AT WET LOCATIONS. GREEN BOARD IS NOT PERMITTED. D. PROVIDE SOLID BLOCKING AS REQUIRED

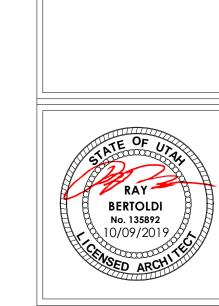
FOR CABINETS, FIXTURES EQUIPMENT AND ACCESSORIES AS REQUIRED BY EACH COMPONENT'S MANUFACTURER, INCLUDING OWNER'S ACCESSORIES AND

EQUIPMENT. E. ALL INTERIOR WALLS TO BE 3-5/8" METAL STUDS U.O.N. WITH 5/8" GWB ON BOTH

SIDES U.O.N. F. ALL INTERIOR DOORS TO BE INSTALLED 4" FROM WALLS U.O.N.

G. CONTRACTOR TO COORDINATE PAINT COLOR AND LOCATIONS WITH OWNER AND ARCHITECT.

H. REFER TO AG-003 FOR TYPICAL MOUNTING HEIGHTS.



4421

PROJECT # 1918 DATE: 10/09/19

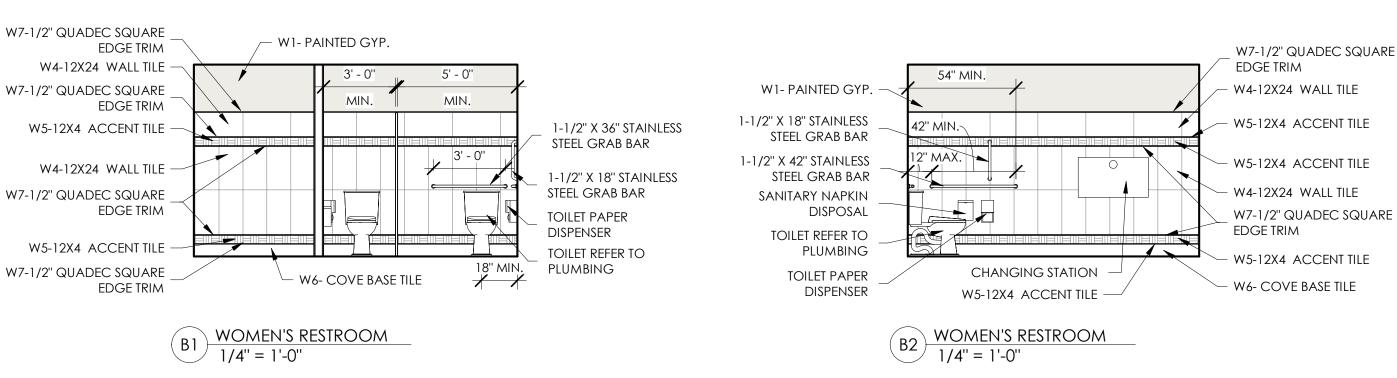
REV.

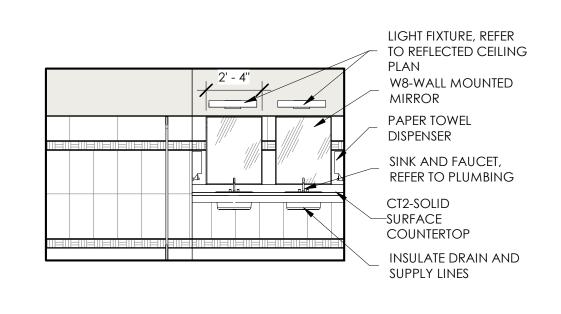
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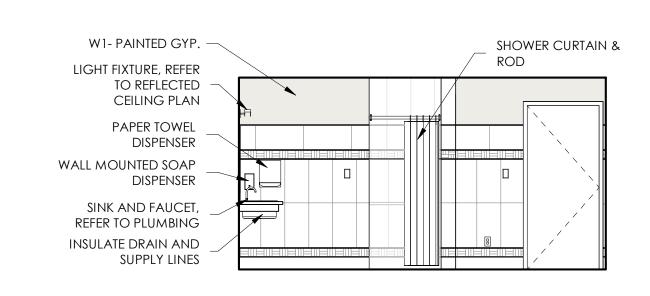
TITLE: WOMEN'S RESTROOM ENLARGED PLANS/ELEVATIONS

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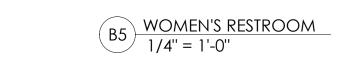
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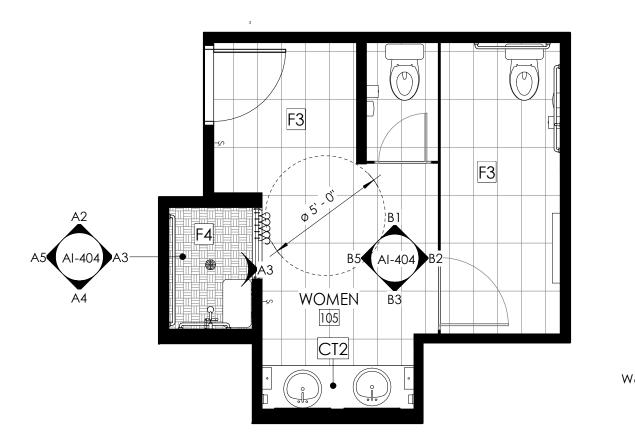




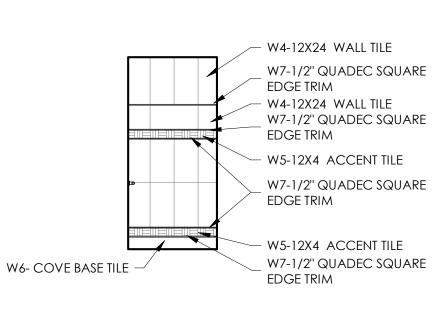


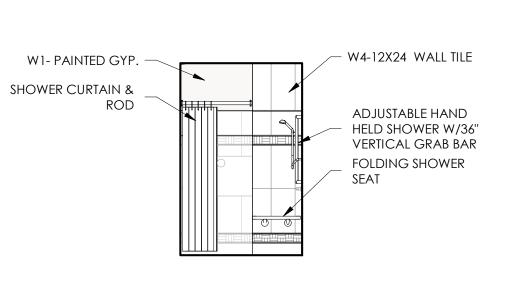
B3 WOMEN'S RESTROOM
1/4" = 1'-0"

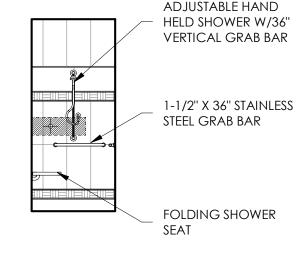


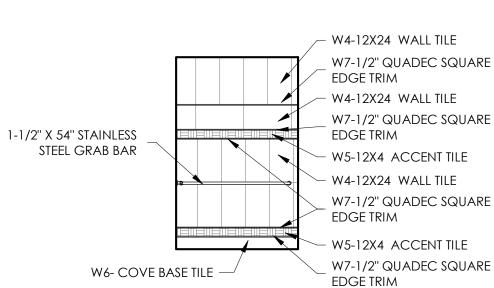


MOMEN'S RESTROOM
1/4" = 1'-0"









A5 WOMEN'S RESTROOM
1/4" = 1'-0"

A2 WOMEN'S RESTROOM
1/4" = 1'-0"

A3 WOMEN'S RESTROOM
1/4" = 1'-0"

A4 WOMEN'S RESTROOM
1/4" = 1'-0"

W7-1/2" QUADEC SQUARE W5-12X4 ACCENT TILE -W7-1/2" QUADEC SQUARE W5-12X4 ACCENT TILE W7-1/2" QUADEC SQUARE

ADJUSTABLE HAND

1-1/2" X 54" STAINLESS

	3
	PIPING LEGEND
	NOTE: ALL ABBREVIATIONS MAY NOT BE USED.
——LPS	LOW PRESSURE STEAM     HIGH PRESSURE CONDENSATE RETURN
MPC	MEDIUM PRESSURE CONDENSATE RETURN
—— LPC	
TWS	
—— CHWF	
—— HHWS	
RL -	REFRIGERANT LIQUID
RSCWS	REFRIGERANT SUPPLY CONDENSER WATER SUPPLY
CWR	
—— нд	HOT GAS BYPASS
GR	GLYCOL SUPPLY GLYCOL RETURN
FOS FOV	FUEL OIL SUPPLY FUEL OIL VENT
	DEFINITIONS
	NOTE: ALL DEFINITIONS MAY NOT BE USED.
-	: THE TERM "INDICATED" REFERS TO GRAPHIC TATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER
PARAGRAP	PHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR ENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH
AS "SHOWN	N", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS HE READER LOCATE THE REFERENCE, NO LIMITATION ON
	IS INTENDED.
	TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", ", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN
	BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND
	: THE TERM "APPROVED", WHERE USED IN CONJUNCTION
WITH THE E	ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, DNS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES
	DNSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY
FURNISH:	THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER
	OJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, ION, AND SIMILAR OPERATIONS."
	HE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT
ASSEMBLY	SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, , ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO
DIMENSION OPERATION	I, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR NS."
	THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL,
	AND READY FOR THE INTENDED USE."
ENGAGED I	: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY BY THE CONTRACTOR, EITHER AS AN EMPLOYEE,
PARTICULA	ACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A IR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION,
REQUIRED	APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE TO BE EXPERIENCED IN THE OPERATIONS THEY ARE
LNOAGED	TO PERFORM.
0.44501	SYMBOL LEGEND
SYMBOL	ENCE LINES AND SYMBOLS
	DETAIL INDICATOR: # INDICATES DETAIL
SHEET)	NUMBER, SHEET INDICATES DETAIL WHERE DETAIL IS SHOWN.
GHEET	WHERE BETALLIO OHOWN.
#	ELEVATION OR SECTION INDICATOR, EXTERIOR:
# SHEET	# INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE
	ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR:
# SHEET	# INDICATES ELEVATION OR SECTION NUMBER, SHEET INDICATES DRAWING SHEET WHERE
SHEET	ELEVATION OR SECTION IS SHOWN.
100	SPACE NUMBER
$\overline{\langle 1 \rangle}$	KEYNOTE INDICATOR
$\overline{}$	
	REVISION INDICATOR
	EQUIPMENT INDICATOR
	PLUMBING FIXTURE INDICATOR
TYPE	I .
TYPE CFM SIZE	DIFFUSER/GRILLE INDICATOR
CFM	
CFM SIZE	DIFFUSER/GRILLE INDICATOR
CFM SIZE	
CFM SIZE	DIFFUSER/GRILLE INDICATOR
TYPE SIZE	DIFFUSER/GRILLE INDICATOR  BREAK, STRAIGHT  BREAK, ROUND
TYPE SIZE	DIFFUSER/GRILLE INDICATOR  BREAK, STRAIGHT  BREAK, ROUND
CFM SIZE  TYPE SIZE	DIFFUSER/GRILLE INDICATOR  BREAK, STRAIGHT  BREAK, ROUND  MATCHLINE INDICATOR  HIDDEN FEATURES LINE: HIDDEN, THIN LINE
CFM SIZE  TYPE SIZE	DIFFUSER/GRILLE INDICATOR  BREAK, STRAIGHT  BREAK, ROUND  MATCHLINE INDICATOR
CFM SIZE	DIFFUSER/GRILLE INDICATOR  BREAK, STRAIGHT  BREAK, ROUND  MATCHLINE INDICATOR  HIDDEN FEATURES LINE: HIDDEN, THIN LINE

POINT OF DEMOLITION

FLEXIBLE CONNECTION

**ABBREVIATIONS** 

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

EXISTING **FUTURE** ACCESS DOOR AIR CONDITION(-ING,-ED) AIR PRESSURE DROP **BALANCING DAMPER BRAKE HORSE POWER BRITISH THERMAL UNIT** BTU/HOUR **CUBIC FEET PER HOUR** 

**CUBIC FEET PER MINUTE** CONDENS(-ER, -ING, -ATION) CONTROL VALVE DRY BULB TEMPERATURE DOMESTIC COLD WATER DOMESTIC HOT WATER

DOMESTIC HOT WATER RECIRC DEPTH OR DEEP EXHAUST AIR **ENERGY EFFICIENCY RATIO EFFICIENCY ELECTRIC ELEVATION ENTERING** 

EVAPORAT(-E, -ING, -ED, -OR) ENTERING WATER TEMPERATURE **EXTERNAL** FLEXIBLE CONNECT(-OR, -ION) FIRE DAMPER

LEAVING AIR TEMPERATURE

**FULL LOAD AMPS** FINS PER INCH FEET PER MINUTE FEET PER SECOND FIRE SMOKE DAMPER GREASE EXHAUST **GALLONS PER HOUR** 

**GALLONS PER MINUTE** HEAD MERCURY **HORSEPOWER** HOUR HEIGHT

HEATING HERTZ (FREQUENCY) INSIDE DIAMETER INCH KILOWATT

POUNDS

LENGTH

LATENT HEAT LOCKED ROTOR AMPS LEAVING LEAVING WATER TEMPERATURE THOUSAND BTU PER HOUR

MINIMUM CIRCUIT AMPS MANUFACTUR(-ER, -ED) NORMALLY CLOSED **NOISE CRITERIA** NOT IN CONTRACT NORMALLY OPEN NET POSITIVE SUCTION HEAD

NOT TO SCALE OUTSIDE AIR OUTSIDE DIAMETER OUNCE PRESSURE DROP OR DIFFERENCE PROPOLENE GLYCOL

PHASE PARTS PER MILLION PRESSURE POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PSI ABSOLUTE PSI GAUGE THERMAL RESISTANCE

**RETURN AIR** RECIRCULATE REFRIGERATION REQUIRED RATED LOAD AMPS **REVOLUTIONS PER MINUTE** SUPPLY AIR

SENSIBLE HEAT

SHADING COEFFICIENT STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER SAFETY FACTOR

SEA LEVEL STATIC PRESSURE SPECIFICATION(S) SQUARE STANDARD SOIL, WASTE TRANSFER AIR (RETURN) TRANSFER AIR (SUPPLY)

TEMP. DROP OR DIFF. **TEMPERATURE THERMAL** TOTAL **THERMOSTAT** VOLT VENT

VACUUM

WT

WTR

**VELOCITY TEMPERATURE** VELOCITY VENT, VENTILATION VERTICAL VARIABLE FREQUENCY DRIVE VOLUME

VARIABLE AIR VOLUME

WET BULB TEMP WATER COLUMN WATER GAUGE WATER PRESSURE DROP WEIGHT WATER

MECHANICAL GENERAL NOTES

THE MECHANICAL DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT & EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE & OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT.

MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.

- THE DRAWINGS & SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER & SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE & NOT THE OTHER BEING FURNISHED & INSTALLED AS THOUGH SHOWN & CALLED OUT IN BOTH.
- THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, & ALL OTHER APPLICABLE CITY, COUNTY, STATE, & FEDERAL CODES & REGULATIONS IN
- THE ENTIRE MECHANICAL INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS & REQUIREMENTS OF THE BUILDING OWNER.
- PRIOR TO FABRICATION & INSTALLATION OF ANY MECHANICAL COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL MECHANICAL WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- THE SPACE ABOVE ALL CEILINGS IS LIMITED. CAREFUL COORDINATION IS REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, OR EQUIPMENT IS ORDERED & OR INSTALLED. ANY CONFLICTS &/OR CHANGES FOUND DURING INSTALLATION THAT RESULTS FROM THE LACK OF COORDINATION BY THE CONTRACTORS DURING THE SHOP DRAWING PROCESS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE MECHANICAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENT.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW & USE, WHERE APPROPRIATE, ALL THE MECHANICAL DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE ALL MOUNTING REQUIREMENTS WITH ARCHITECTURAL & STRUCTURAL DRAWINGS.
- ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS & GRILLES.
- CONTRACTOR SHALL OPERATE THE SYSTEM & DEMONSTRATE ALL ASPECTS OF THE SYSTEM TO THE ENGINEER &/OR OWNER TO PROVE ALL SYSTEMS ARE OPERATIONAL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAINING AT THE PROJECT SITE. ALL CHANGES IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, & ACCESSORIES SHALL BE RECORDED. THESE REDLINED DRAWINGS SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION IN ACCORDANCE WITH SPECIFICATIONS.

#### GENERAL EQUIPMENT NOTES

- ALL CAPACITIES ARE AT JOB SITE CONDITIONS & ARE MINIMUM CAPACITY.
- ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED TO CONFORM WITH LOCAL SEISMIC REQUIREMENTS & THE REQUIREMENTS OF THESE CONSTRUCTION
- VERIFY ALL REQUIRED SERVICE CONNECTIONS, INCLUDING ELECTRICAL CHARACTERISTICS FOR ALL EQUIPMENT PRIOR TO ORDERING EQUIPMENT.
- ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURAL
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
- ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
- AIR INLETS & OUTLETS SHALL BE OF THE SAME MANUFACTURER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HVAC EQUIPMENT CHECK-IN, SAFEKEEPING, & DAMAGE.

### MECHANICAL SHEET INDEX

	MECHANICALONICLI INDEX
M-001	MECHANICAL COVER SHEET
M-100	MECHANICAL DEMO PLAN
M-101	LEVEL 1 MECHANICAL PLAN
M-102	ROOF MECHANICAL PLAN
M-501	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES





DATE

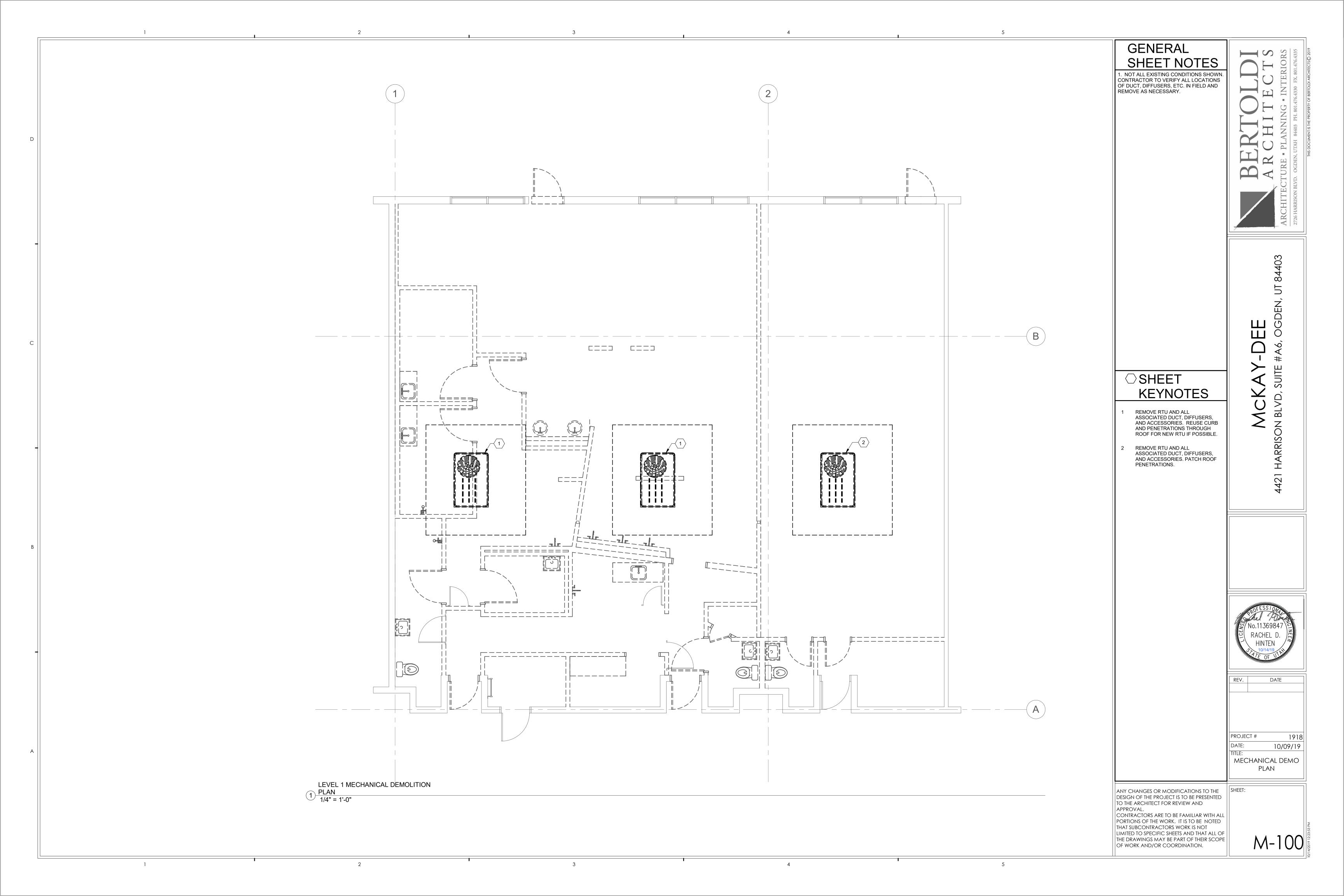
PROJECT # 1918 10/09/19 MECHANICAL COVER

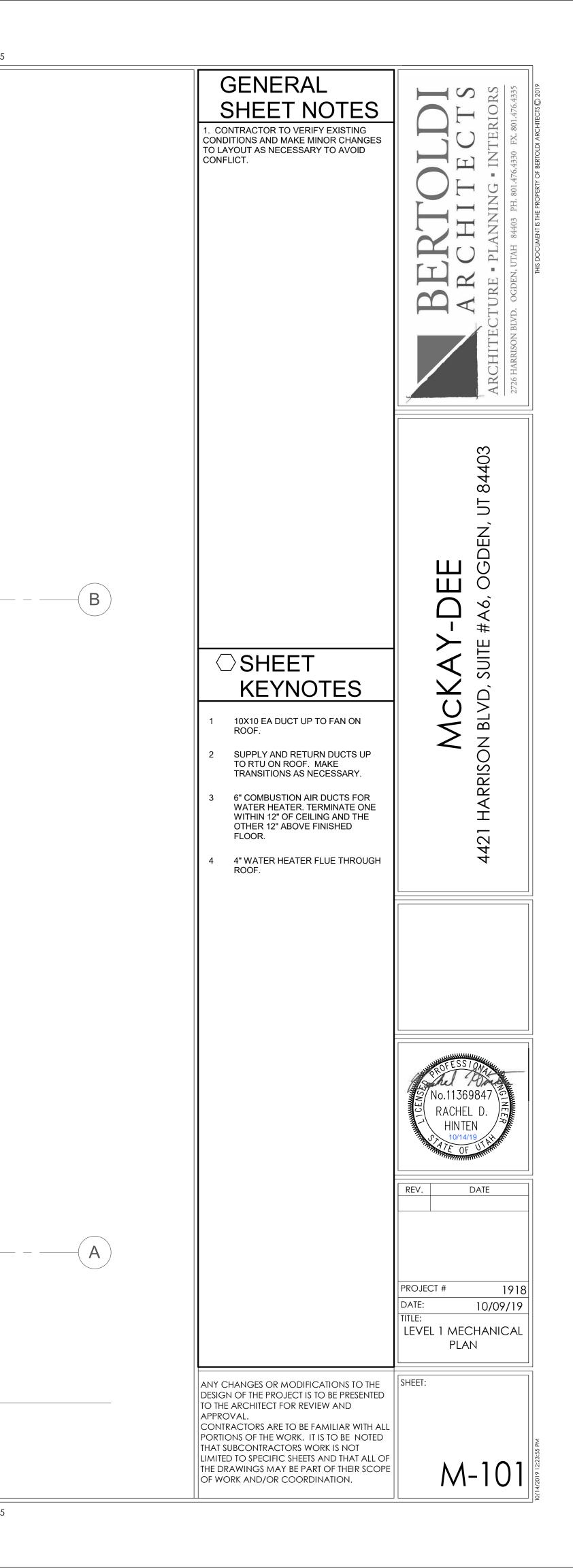
SHEET

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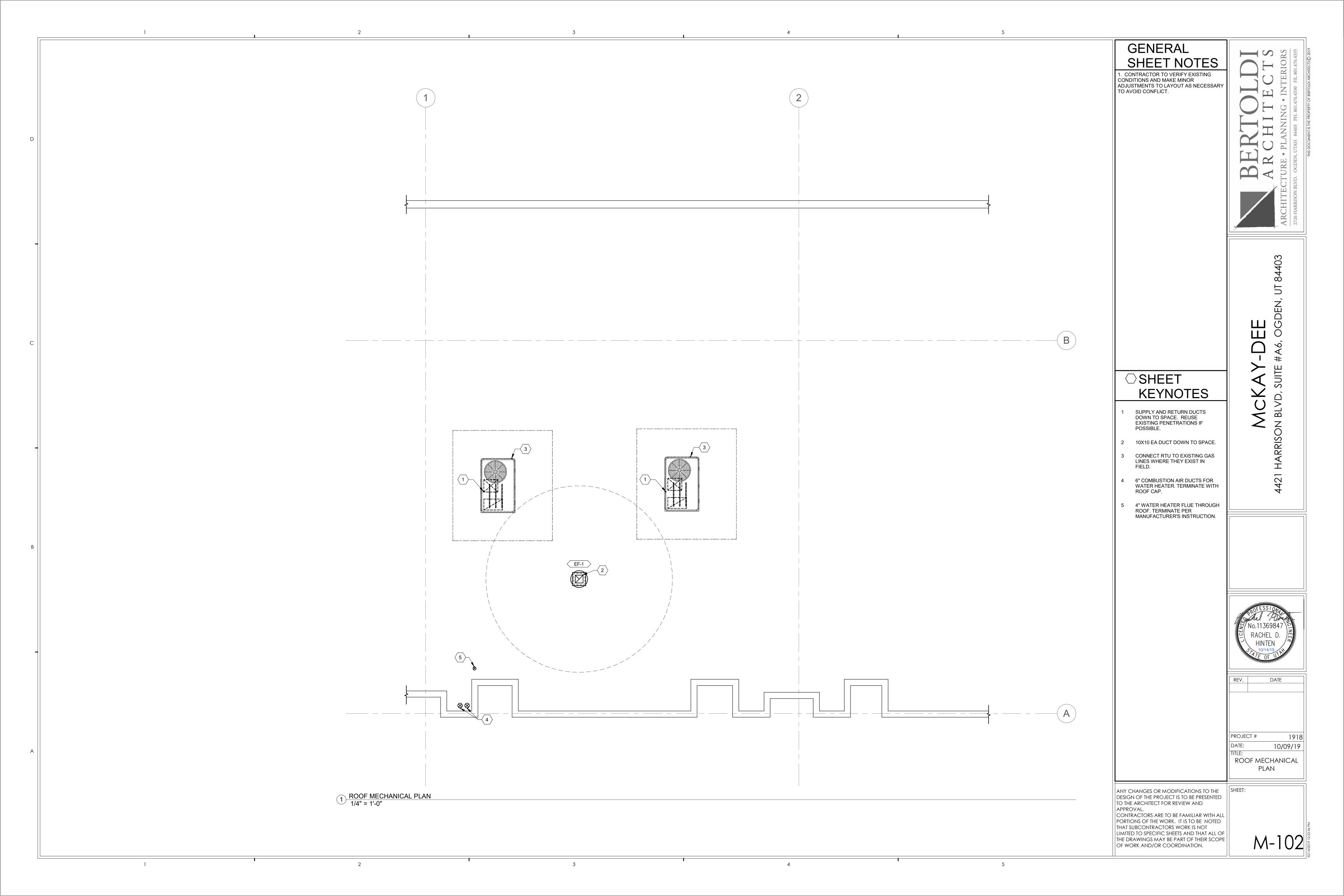


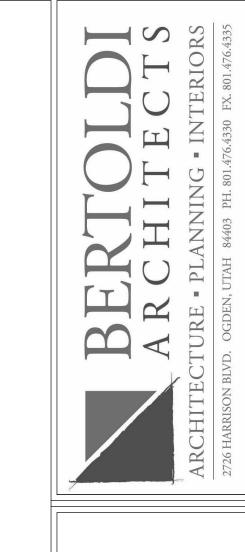
12"ø

1) LEVEL 1 MECHANICAL PLAN 1/4" = 1'-0" 12"ø

14"ø

D-2 160

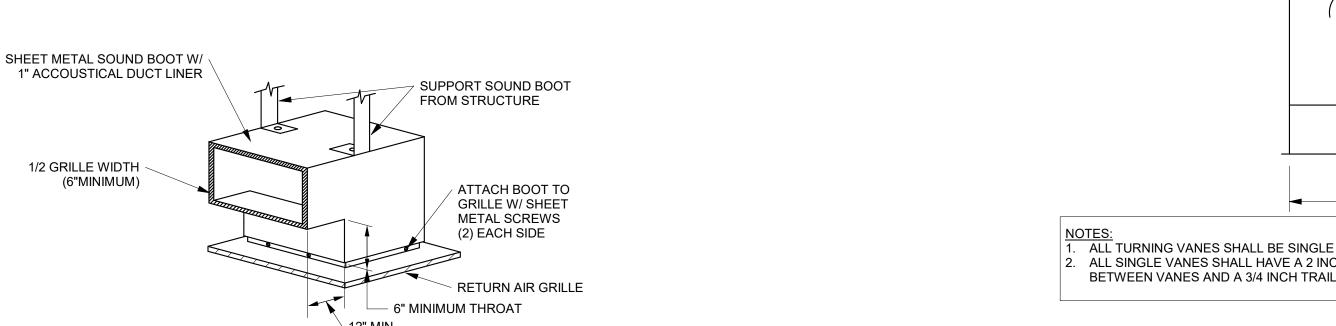




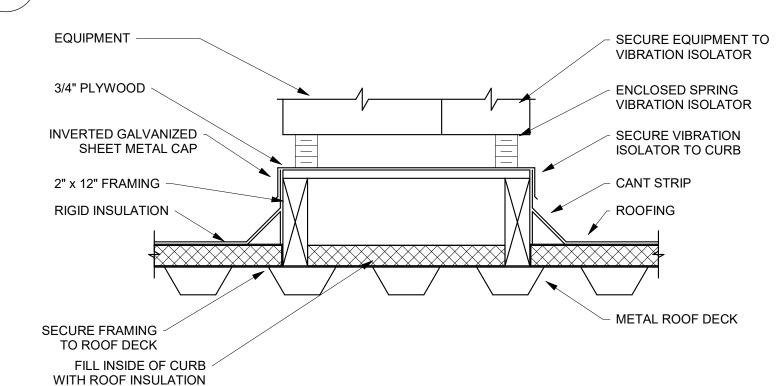
7

RACHEL D.

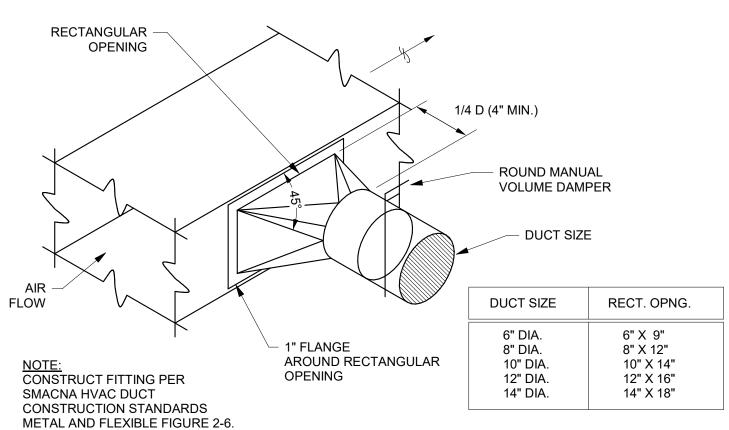
DATE REV. PROJECT # 1918 10/09/19 MECHANICAL DETAILS



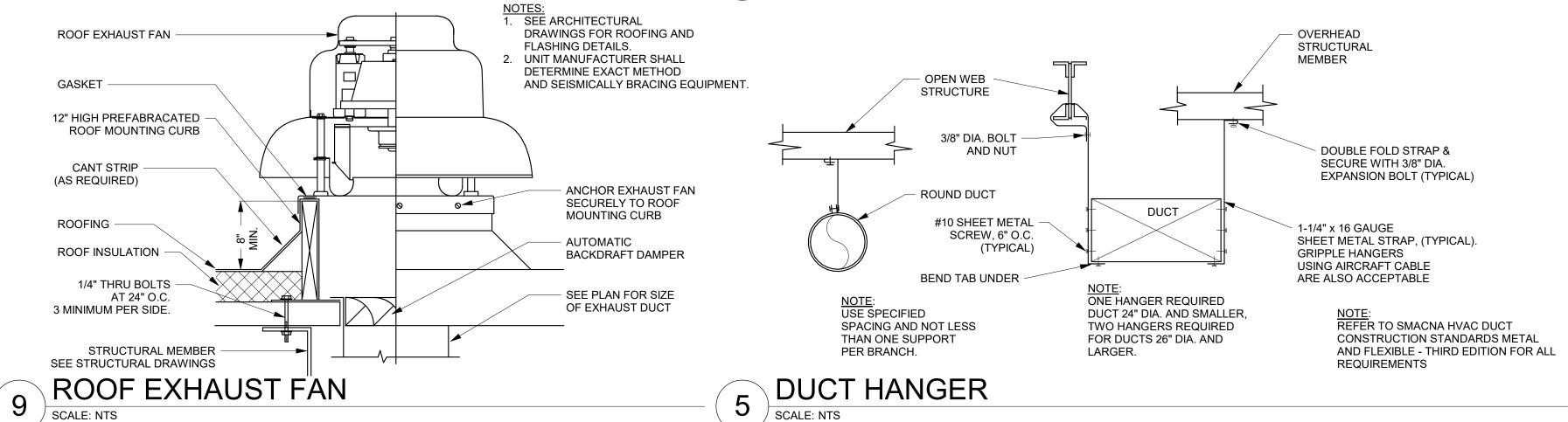
8 R.A. GRILLE WITH SOUND BOOT

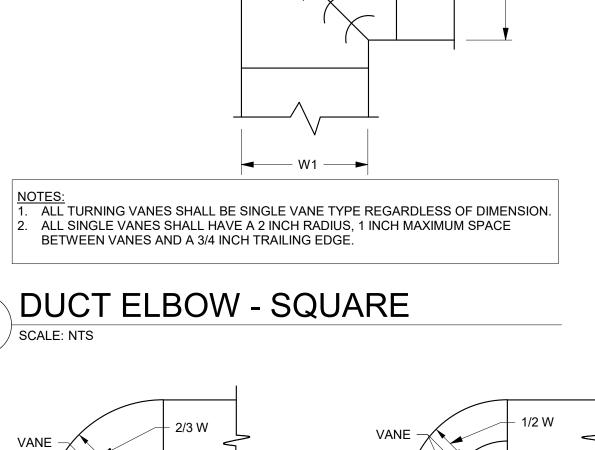


**EQUIPMENT CURB DETAIL** 

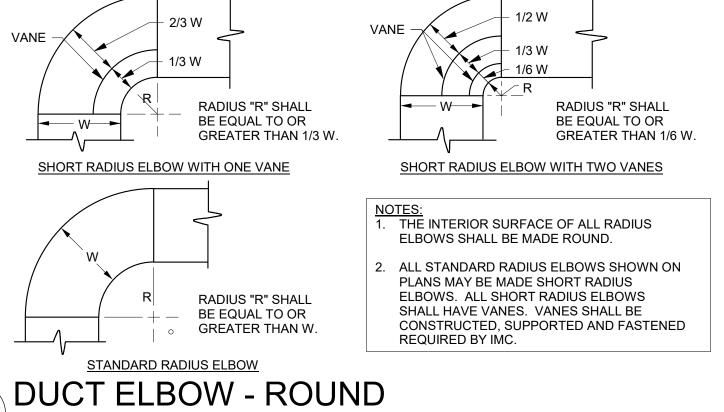


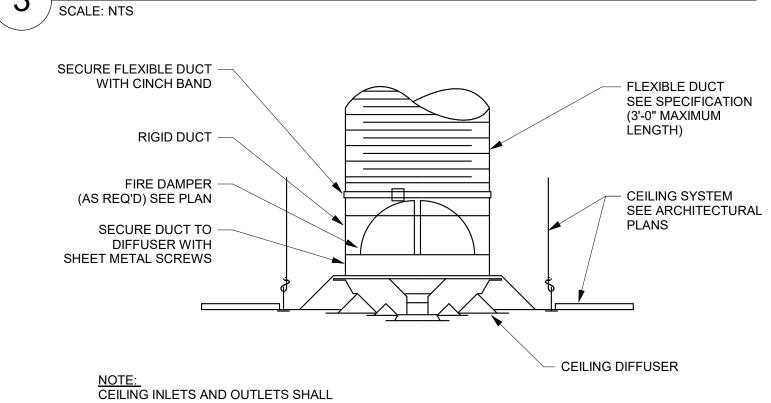
DUCT HIGH EFFICIENCY TAKE-OFF



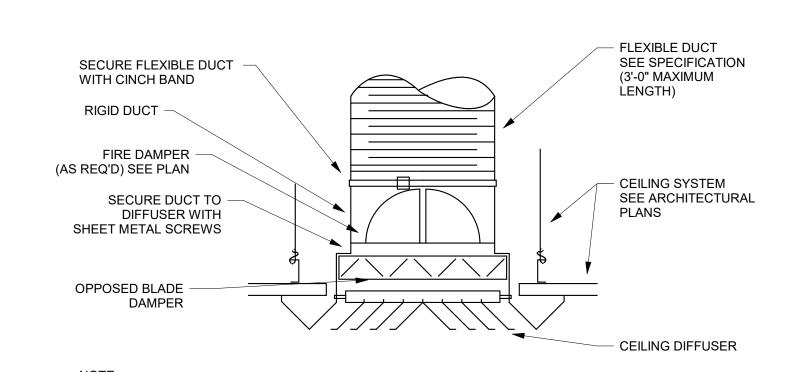


TURNING VANES





BE INDEPENDENTLY SUPPORTED. CEILING DIFFUSER LAY-IN



NOTE:
CEILING INLETS AND OUTLETS SHALL
BE INDEPENDENTLY SUPPORTED. CEILING DIFFUSER - SURFACE

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			RE	GISTER -	<b>GRILL</b>	E- DII	FFUSE	R SCHED	ULE			
APPROVE	D EQUAL	S:	REMARKS:									
KRUEGER TUTTLE & TITUS PRICE	BAILEY		(2) NC VALUES	<ul> <li>(1) REGISTERS AND GRILLES SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STD 70.</li> <li>(2) NC VALUES ARE BASED ON OCTAVE BAND SOUND POWER LEVELS MINUS A ROOM ABSORPTION OF 10 dB, RE 10(-12) WATTS.</li> <li>(3) COORDINATE EXACT COLOR SELECTION WITH OWNER AND ARCHITECT.</li> </ul>								
LABEL	COUNT	ТҮРЕ	BLOW PATTERN	MAX AIR FLOW (CFM)	FACE SIZE	NECK SIZE	MAX NC	PRESSURE DROP (in-wg)	THROW	MANUFACTURER	MODEL	REMARKS
D-1	7	SQUARE PLAQUE	4 WAY	235	24x24	06	28	0.099	11	TITUS	OMNI	ALL
D-2	16	SQUARE PLAQUE	4 WAY	349	24x24	08	25	0.112	13	TITUS	OMNI	ALL
E-1	1	EXHAUST	-	700	12x12	-	30	0.130	-	TITUS	350RL	ALL
E-2	2	EXHAUST	-	2250	24x24	-	25	0.073	-	TITUS	350RL	ALL
R-1	9	EGGCRATE	-	3000	24x24	-	26	0.096	-	TITUS	50F	ALL

PPROVED EC	FOUALS:				<b>-</b> •	<del>_</del> / \.	100	CHEDU					
FNN BARRY	- <del>4 0</del> / 1 - 0 .		REMARKS:										
OREN COOK WIN CITY REENHECK ROAN	K		(2) BACKDRAFT (3) INTEGRAL TH (4) 14" ROOF CL	(1) ALL ALUMINUM CONSTRUCTION (2) BACKDRAFT DAMPER (3) INTEGRAL THERMAL OVERLOAD PROTECTION				(6) CAPACITY AT JOB SITE ELEVATION (7) CEILING RADIATION DAMPER (8) CONTROLLED BY WALL SWITCH (9) INTERLOCK WITH LIGHTS					
	AREA SERVED	<b>CFM</b> 300	STATIC PRESSURE 0.30 in-wg	FAN RPM	SOUND RATING 6.9	WEIGHT 26	HP 1/10	VOLTAGE	PHASE	<b>Hz</b>	MANUFACTURER Greenheck	MODEL G-80-VG	REMARKS (1)(2)(3)(4)(5)(6)(9)

DUCT INSULATION REQUIREMENTS									
DUCT SYSTEM	DUCT LOCATION	INSULATION MATERIALS	MINIMUM THERMAL RESISTANCE ("R")	FIELD APPLIED JACKET					
	BUILDING INTERIOR, CONCEALED	MINERAL-FIBER BLANKET	6.0	NONE					
	·	MINERAL-FIBER BLANKET	6.0	NONE					
	BUILDING EXTERIOR (OUTSIDE BUILDING INSULATION)	MINERAL-FIBER BLANKET	12.0	ALUMINUM					
	BUILDING INTERIOR, CONCEALED	MINERAL-FIBER BLANKET	6.0	NONE					
RETURN AIR	BUILDING INTERIOR, EXPOSED, OUTSIDE CONDITIONED SPACE	MINERAL-FIBER BLANKET	6.0	NONE					
	BUILDING EXTERIOR (OUTSIDE BUILDING INSULATION)	MINERAL-FIBER BLANKET	12.0	ALUMINUM					
EXHAUST AIR	ALL	NONE							
OUTSIDE AIR	BUILDING INTERIOR, CONCEALED OR EXPOSED	MINERAL-FIBER BLANKET	6.0	NONE					
FLEXIBLE DUCT	BUILDING INTERIOR	MINERAL-FIBER BLANKER POLYETHYLENE INNER AND OUTER JACKET	6.0	NONE					
NOTES									
1. ALL DUCT INS	ULATION SHALL HAVE ALL SERVICE JACKET MANUFACTURER FR	OM KRAFT PAPER, REINFORCED SCRIM, ALUMINU	JM FOIL, OR VINUL FILM.						

2. DUCT INSULATION SHALL BE MECHANICALLY FASTENED TO DUCTS WIDER THAN 24" AND SHALL BE AFFIXED TO BOTTOM OF DUCT WITH WELDED METAL PINS AND 2" WASHERS AT 18" MAXIMUM SPACING. 3. DUCT LINER, WHERE SHOWN ON DRAWINGS, SHALL BE A MINIMUM OF 1" THICK AND SHALL HAVE A MINIMUM "R" VALUE OF 3.8.

4. DUCT LINER SHALL NOT BE SUBSTITUTED FOR DUCT WRAP UNLESS THE MINIMUM "R" VALUE OF THE DUCT LINER IS INCREASED TO 5.0.

5. DUCT DIMENSIONS SHOWN ON THE DRAWINGS ARE NET FREE AREA. WHERE DUCT LINER IS SHOWN, INCREASE METAL DUCT SIZE TO ALLOW FOR THICKNESS OF DUCT LINER. 6. TOTAL LENGTH OF FLEXIBLE DUCT FUN SHALL NOT EXCEED 3'-0". EXTEND SHEET METAL DUCT OT WITHIN 3'-0" OF THE AIR INLET OR AIR OUTLET DEVICE.

7. OFFSET OF FLEXIBLE DUCT SHALL NOT EXCEED ONE HALF OF THE DUCT DIAMETER. 8. ALL DUCT CHANGES IN DIRECTION SHALL BE MADE WITH RIGID ELBOWS OR OTHER RIGID METAL FITTINGS.

9. INDOOR DUCT INSULATION AND RELATED MATERIALS SHALL HAVE A FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS WHEN TESTED TO ASTM 84. 10. OUTDOOR DUCT INSULATION AND RELATED MATERIALS SHALL HAVE A FLAME-SPREAD INDEX OF 75 OR LESS, AND SMOKE-DEVELOPED INDEX OF 150 OR LESS WHEN TESTED TO ASTM 84.

11. ALL DUCT COVERINGS AND LININGS SHALL NOT FLAME, GLOW, SMOLDER, OR SMOKE WHEN TESTED IN ACCORDANCE WITH ASTM 411. 12. ALL MATERIALS USED AS INTERNAL INSULATION AND EXPOSED TO THE AIR STREAM IN DUCTS SHALL BE SHOWN TO BE DURABLE WHEN TESTED IN ACCORDANCE WITH UL 181.



REV.		ATE
PROJEC	CT #	19
DATE:		10/09/1
TITLE:		
\ \ \	<b>NECHAN</b>	IICAL
	SCHEDU	JLES

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# SUITE

ı		
		CATCH BASIN
	M.H.	MANHOLE
	————— W.H.	WALL HYDRANT
	—————————————————————————————————————	HOSE BIBB
	<b>—</b> ф	CLEANOUT TO GRADE
	—ф	FLOOR CLEANOUT
		WALL CLEANOUT
		1/2 GRATE
		3/4 GRATE
		FULL GRATE

PLUMBING SYMBOL LEGEND

DESCRIPTION

SYMBOL

#### **DEFINITIONS**

NOTE: ALL DEFINITIONS MAY NOT BE USED

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR **OPERATIONS."** 

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

PI UMBII	PLUMBING PIPING LEGEND					
SYMBOL	DESCRIPTION					
	SANITARY SEWER (SS)					
	GREASE WASTE (GW)					
	VENT (V)					
	ACID VENT					
AW	ACID WASTE					
	DOMESTIC COLD WATER (DCW)					
	DOMESTIC HOT WATER REGIDO (DUIA/D)					
180	DOMESTIC HOT WATER RECIRC (DHWR)					
	180°F HOT WATER RETURN					
180R	180° HOT WATER					
	160° HOT WATER					
160R	160° HOT WATER RETURN					
RW	RAINWATER					
SRW	SECONDARY RAINWATER					
SD	STORM DRAIN					
VTR	VENT THRU ROOF					
	NON POTABLE WATER					
(E)	EXISTING PIPE					
(E)	EXISTING PIPE TO BE REMOVED					
IW	IRRIGATION WATER					
SS	SANITARY SEWER					
LPS	LOW PRESSURE STEAM					
CHWS	CHILLED WATER SUPPLY					
CHWR	CHILLED WATER RETURN					
——HHWS——	HEATING HOT WATER SUPPLY					
HHWR	HEATING HOT WATER RETURN					
cws	CONDENSER WATER SUPPLY					
CWR	CONDENSER WATER RETURN					
GS	GLYCOL SUPPLY					
———GR———	GLYCOL RETURN					
G	GAS					
FP	FIRE PROTECTION					
LPG	PROPANE					
VAC	VACUUM					
CA	COMPRESSED AIR					
MA	MEDICAL AIR					
o	OXYGEN					
NO	NITROUS OXIDE					
N	NITROGEN					
CO2	CARBON DIOXIDE					
——EVAC——	EVACUATION					
	1					

SYMBOL	DESCRIPTION	
VALVE	S, METERS, AND GAUGES	
$\bowtie$	SHUT OFF VALVE	
$   \overline{\mathbb{A}} $	GATE VALVE	
ightharpoonup	CHECK VALVE	
內	AUTO 2-WAY VALVE	
$\square$	AUTO 3-WAY VALVE	
$\bowtie$	GLOBE VALVE	
Ф	BALL VALVE	
赵	RELIEF VALVE	
岗	CHAIN OPERATED GATE VALVE	
$\nearrow$	PRESSURE REDUCING VALVE	
1	BUTTERFLY VALVE	
S X	SOLENOID VALVE	
$\triangle$	ANGLE VALVE	
) 	VENTURI	
$\boxtimes$	BALANCING OR PLUG COCK	
$\boxtimes$	FLOW SETTER	
$\otimes$	EXPANSION VALVE (REFRIG.)	
$\stackrel{\neg}{\nabla}$	GAS COCK	
ZMAV	MANUAL AIR VENT	
-	STRAINER	
O <sub>1</sub>	GAUGE COCK	
	FLEXIBLE CONNECTION	
P	PRESSURE GAUGE	
Image: square of the property of	THERMOMETER	
	VICTUALIC COUPLING	
<b>→</b>	REDUCER CONCENTRIC	
V	REDUCER ECCENTRIC	
<b>∞</b>	REFRIGERANT SITE GLASS	
	REFRIGERANT STRAINER	
Г	REFRIGERANT FILTER DRIER	
<del></del>	90 DEG ELBOW UP	
<del></del>	90 DEG ELBOW DOWN	
<del></del>	90 DEG TEE UP	
	90 DEG TEE DOWN	
H	UNION	
	CAPPED PIPE	
	ANCHOR	
	FLOAT AND THERMOSTATIC TRAP	$\neg$
	ı	

		1
F	PLUMBING SHEET INDEX	SA SC SCFN
	PLUMBING COVER SHEET	scw
	PLUMBING DEMOLITION PLAN	SF
	LEVEL 1 PLUMBING PLAN - DWV	SH
	LEVEL 1 PLUMBING PLAN - WATER	SL
	PLUMBING DETAILS	SP
	PLUMBING SCHEDULES	SPEC
	•	SQ

#### PLUMBING GENERAL NOTES

**ABBREVIATIONS** 

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

**EXISTING** 

BTU/HOUR

ACCESS DOOR

AIR CONDITION(-ING,-ED)

AIR PRESSURE DROP

**BRAKE HORSE POWER** 

**BRITISH THERMAL UNIT** 

CUBIC FEET PER HOUR

**CUBIC FEET PER MINUTE** 

CONTROL VALVE

DEPTH OR DEEP

EXHAUST AIR

**EFFICIENCY** 

**ELECTRIC** 

**ELEVATION** 

ENTERING

**EXTERNAL** 

FIRE DAMPER

**FULL LOAD AMPS** 

FEET PER MINUTE

FEET PER SECOND

FIRE SMOKE DAMPER

GREASE EXHAUST

HEAD

HOUR HEIGHT

INCH

HEATING

KILOWATT

POUNDS LENGTH

LEAVING

LATENT HEAT

MERCURY

HORSEPOWER

**GALLONS PER HOUR** 

**GALLONS PER MINUTE** 

HERTZ (FREQUENCY)

LEAVING AIR TEMPERATURE

LEAVING WATER TEMPERATURE

THOUSAND BTU PER HOUR MINIMUM CIRCUIT AMPS

NET POSITIVE SUCTION HEAD

PRESSURE DROP OR DIFFERENCE

MANUFACTUR(-ER, -ED)

NORMALLY CLOSED

NOISE CRITERIA

NOT TO SCALE OUTSIDE AIR

OUNCE

PHASE

PRESSURE

PSI ABSOLUTE

PSI GAUGE

RETURN AIR

REQUIRED

SUPPLY AIR

RECIRCULATE REFRIGERATION

RATED LOAD AMPS

REVOLUTIONS PER MINUTE

STANDARD CUBIC FEET PER MINUTE

SHADING COEFFICIENT

SOFT COLD WATER

SAFETY FACTOR

SENSIBLE HEAT

STATIC PRESSURE

SPECIFICATION(S)

TRANSFER AIR (RETURN)

TRANSFER AIR (SUPPLY)

TEMP. DROP OR DIFF.

VARIABLE AIR VOLUME

VENT, VENTILATION

WET BULB TEMP

WATER COLUMN

WATER GAUGE

VELOCITY TEMPERATURE

WATER PRESSURE DROP

VARIABLE FREQUENCY DRIVE

SEA LEVEL

SQUARE

STANDARD

SOIL, WASTE

TEMPERATURE

**THERMOSTAT** 

THERMAL

TOTAL

VOLT

VENT

VACUUM

VELOCITY

VERTICAL

VOLUME

WEIGHT

WATER

STD

SW

TD

TA(R)

TA(S)

TEMP

TOT

VAC

VAV

VEL

VEL

VENT

**VERT** 

VFD

VOL

WG

WPD

TSTAT

THERM

NOT IN CONTRACT NORMALLY OPEN

**OUTSIDE DIAMETER** 

PROPOLENE GLYCOL

PARTS PER MILLION

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

THERMAL RESISTANCE

LOCKED ROTOR AMPS

INSIDE DIAMETER

FINS PER INCH

CONDENS(-ER, -ING, -ATION)

DRY BULB TEMPERATURE

DOMESTIC HOT WATER RECIRC

**ENERGY EFFICIENCY RATIO** 

EVAPORAT(-E, -ING, -ED, -OR)

FLEXIBLE CONNECT(-OR, -ION)

ENTERING WATER TEMPERATURE

DOMESTIC COLD WATER

DOMESTIC HOT WATER

**BALANCING DAMPER** 

**FUTURE** 

- THE PLUMBING DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT AND EXTENT OF THE PLUMBING SYSTEM. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
- THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
- THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES, MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY STATE, AND FEDERAL CODES AND REGULATIONS IN EFFECT.
- 4 THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE BUILDING OWNER.
- 5 PRIOR TO FABRICATION AND INSTALLATION OF ANY PLUMBING COMPONENT THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING WORK WITH ALL OTHER BUILDING TRADES. INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
- ALL PLUMBING INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE, WHERE APPROPRIATE, ALL THE PLUMBING DETAILS SHOWN ON THE DRAWINGS. DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8 ANY PART OF THE PLUMBING INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 9 PROVIDE PROPER PROVISIONS FOR EXPANSION, CONTRACTION, OR MOVEMENT OF ALL PIPING.
- 10 PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALL OR FLOOR TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENT.
- 11 ALL PIPING SHALL BE SUPPORT WITH CLEVIS HANGERS (MSS TYPE 1). PERFORATED METAL STRAPS OR PLASTIC STRAPPING (PLUMBER TAPE) SHALL NOT BE USED TO SUPPORT OR BRACE ANY PIPE.
- 12 PROVIDE PIPE HANGERS WITHIN 18-INCHES OF ALL CHANGES OF DIRECTION.
- 13 PROVIDE SWAY BRACING FOR ALL PIPING 4" AND LARGER AT ALL CHANGES IN DIRECTION GREATER THAN 45-DEGREES.
- 14 ALL STEEL CLEVIS HANGERS USED TO SUPPORT COPPER PIPING SHALL BE COPPER OR PLASTIC COATED.
- 15 COPPER PIPING SHALL NOT COME IN CONTACT WITH FIRE TREATED LUMBER. PROVIDE 1/2" THICK SLIP-ON CLOSED CELL INSULATION WHERE COPPER PIPING IS ADJACENT TO FIRE TREATED LUMBER. CLOSED CELL INSULATION SHALL EXTEND A MINIMUM OF 1-1/2" PAST LUMBER.
- 16 ALL EXPOSED PIPING SHALL BE INSTALLED IN A NEATLY ARRANGED MANNER PARALLEL TO THE BUILDING STRUCTURE.
- 17 ALL EXPOSED DOMESTIC WATER PIPE IN OCCUPIED SPACES SHALL BE POLISHED CHROME PLATED.
- 18 ALL EXPOSED DRAINAGE PIPING IN OCCUPIED SPACES INCLUDING TRAPS UNDER SINKS SHALL BE POLISHED CHROME PLATED.
- 19 DRAWINGS SHOW GENERAL ARRANGEMENT OF THE DRAIN WASTE AND VENT SYSTEM WITH THE REQUIRED CLEANOUTS. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL CLEANOUTS AS REQUIRED BY THE PLUMBING CODE.
- 20 ALL SANITARY DRAINAGE SYSTEM PIPING 3" AND LARGER SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/8" PER FOOT.
- 21 ALL SANITARY DRAINAGE SYSTEM PIPING SMALLER THAN 3" SHALL BE SLOPED IN
- DIRECTION OF FLOW AT A MINIMUM OF 1/4" PER FOOT.

SITE ELEVATION.

22 SLOPE VENT SYSTEM TOWARDS DRAINAGE SYSTEM.

23 SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.

- 24 ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE JOB
- 25 FIXTURE AND EQUIPMENT MODEL NUMBERS SHOWN IN PLUMBING FIXTURE SCHEDULE AND PLUMBING EQUIPMENT SCHEDULE ARE SHOWN TO ESTABLISH THE TYPE OF PRODUCT THAT SHALL BE USED. THE SELECTED PRODUCT SHALL MEET THE SCHEDULED PERFORMANCE DATA SHOWN ON THE SCHEDULE EVEN IF A DIFFERENT MODEL IS SUPPLIED THAT IS DIFFERENT THAN THAT SCHEDULED.
- 26 ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
- 27 SEE "PLUMBING FIXTURE SCHEDULE" FOR INDIVIDUAL TRAPS, WASTE, VENT, AND DOMESTIC WATER PIPING FOR INDIVIDUAL FIXTURES.
- 28 ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
- 29 FIXTURES, EQUIPMENT AND PIPING INSTALLATION SHALL MEET NSF STANDARDS.

RACHEL D. HINTEN DATE

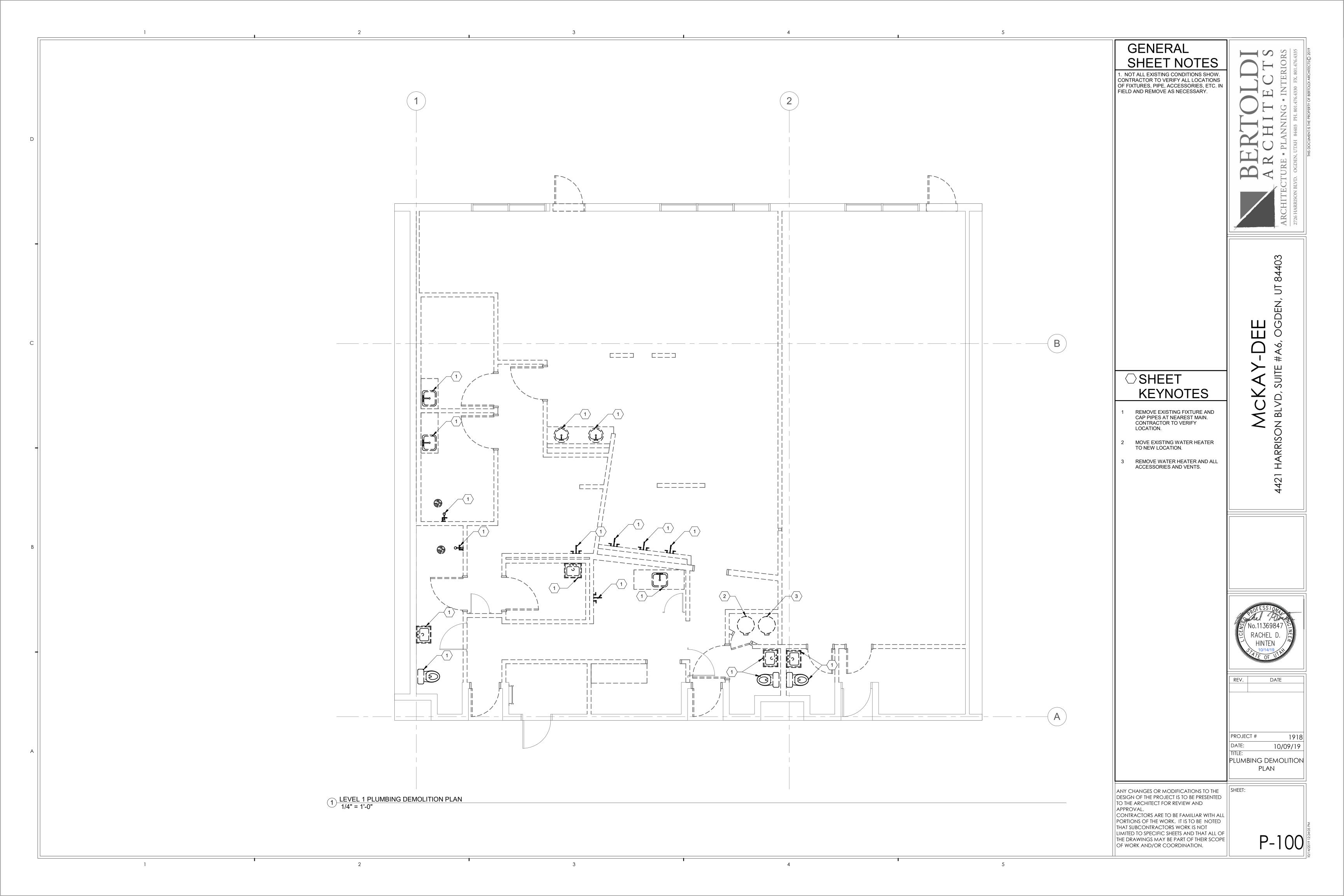
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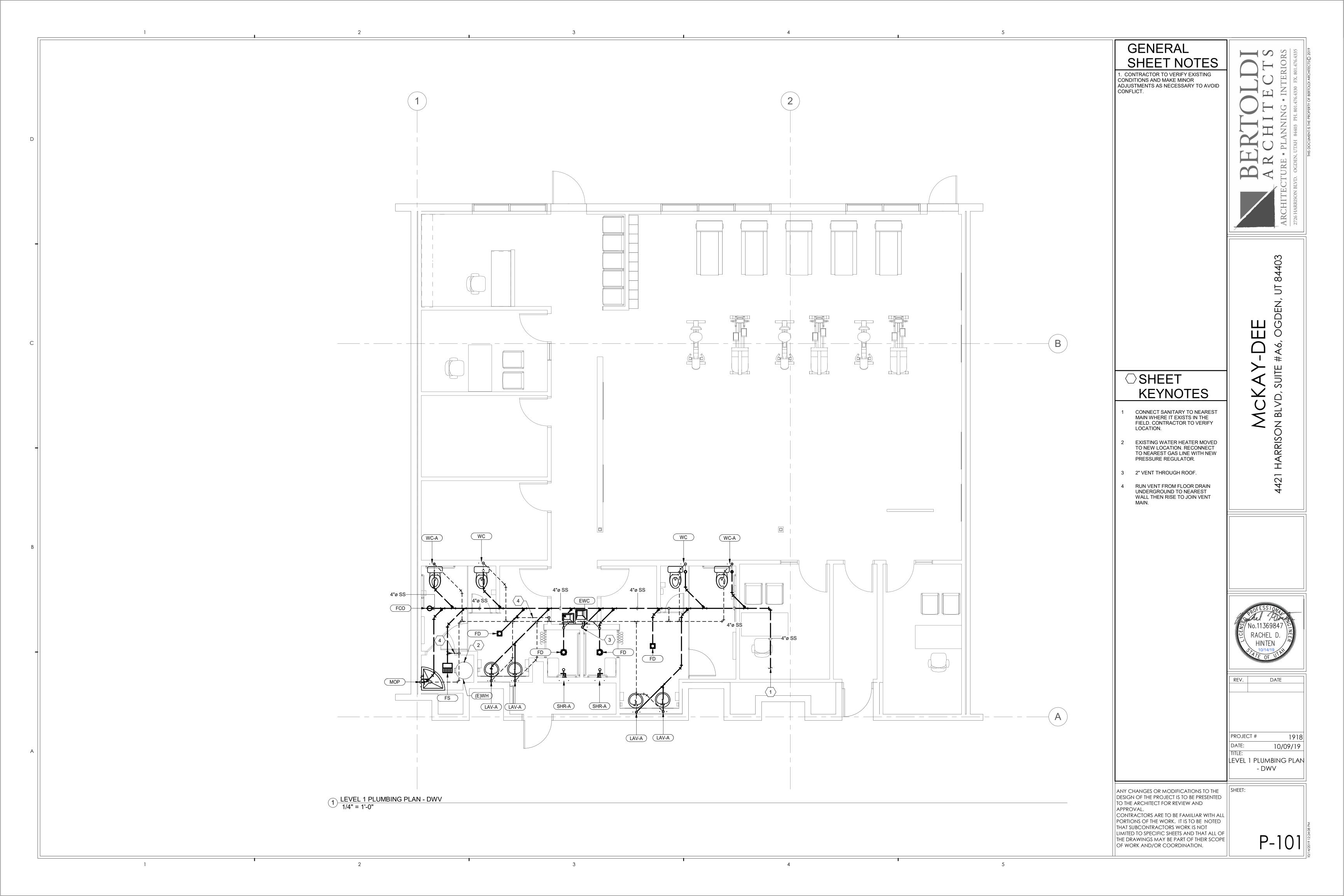
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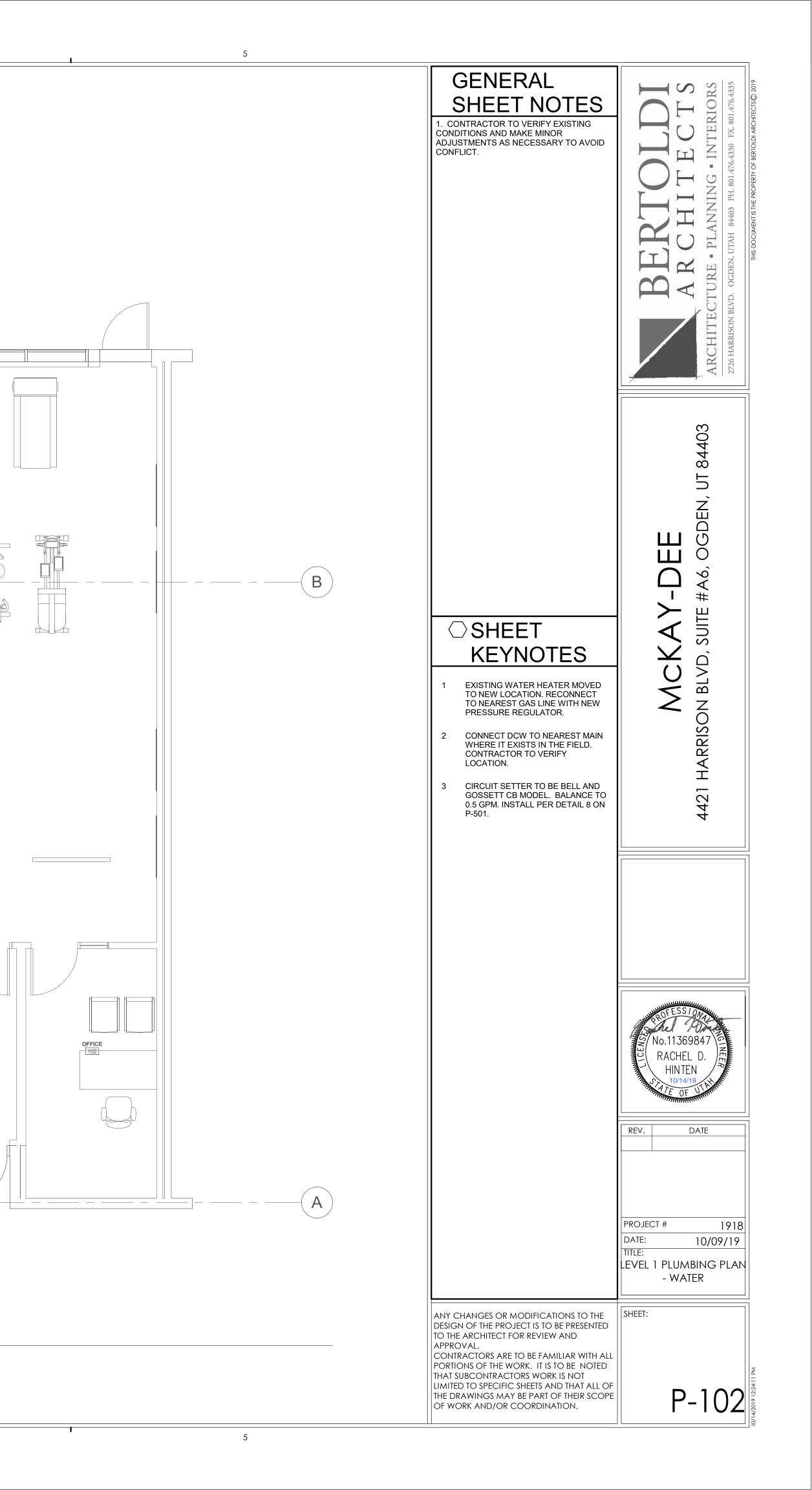
APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

# Щ

10/09/19 PLUMBING COVER SHEET







FITNESS GYM

WC

LAV-A LAV-A

WC-A

1 1/4"ø DCW

WC-A

1 LEVEL 1 PLUMBING PLAN - WATER 1/4" = 1'-0"

LAV-A LAV-A

## BALANCING VALVE TO BE PROVIDED WITH TAMPER-PROOF ADJUSTMENT. 8 PIPING VOLUME AND MAXIMUM PIPING LENGTHS SCALE: NTS

**VOLUME (LIQUID OUNCES** PER FOOT LENGTH)

0.33

0.75

1.5

NOMINAL PIPE |

SIZE (INCHES)

1/4

3/8

1/2

3/4

1 1/4

1 1/2

2 OR LARGER

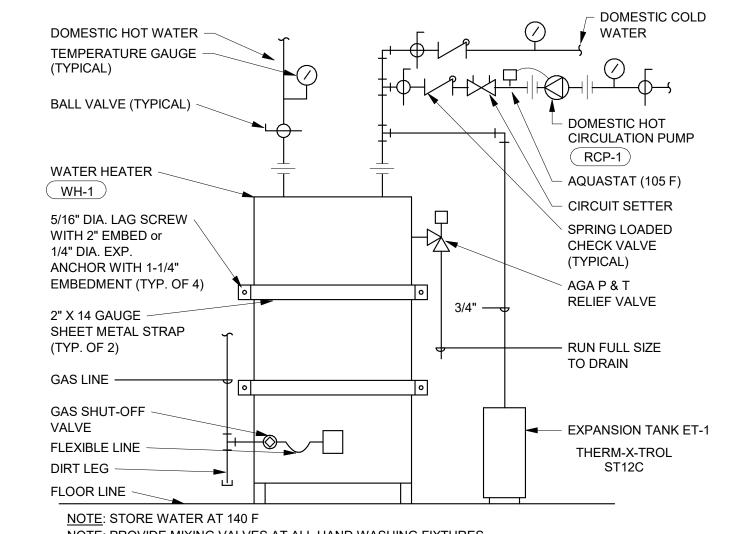
DCW, DHW, DHWR MAINS IN CEILING

PUBLIC LAVATORY

MAXIMUM PIPING LENGTH (SEE TABLE)

BALANCING VALVE (BV)

3/4" DCW, 1/2" DHW, 3/4" DHWR IN WALL



PIPING VOLUME AND MAXIMUM PIPING LENGTHS (IECC TABLE C404.5.1)

0.5

0.5

0.5

0.5

0.5

MAXIMUM PIPING LENGTH (FEET)

PUBLIC LAVATORY FAUCETS | OTHER FIXTURES AND APPLIANCES

50

50

43

21

13

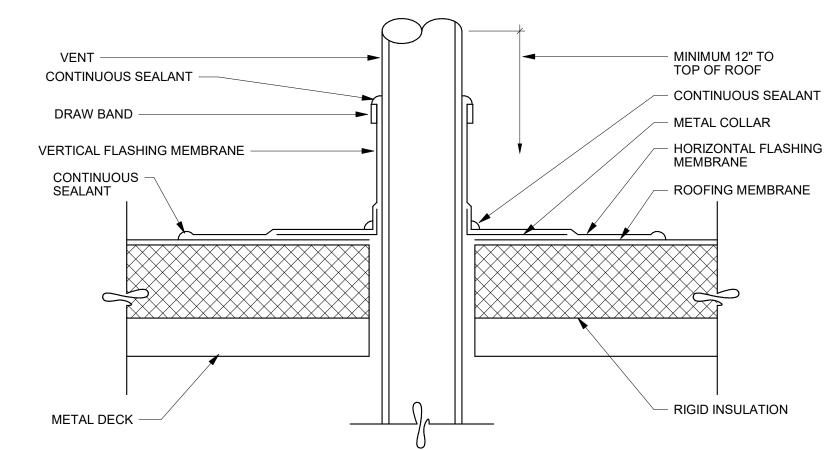
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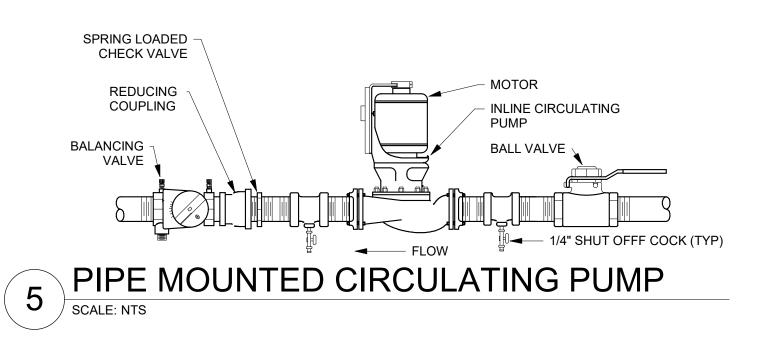
4

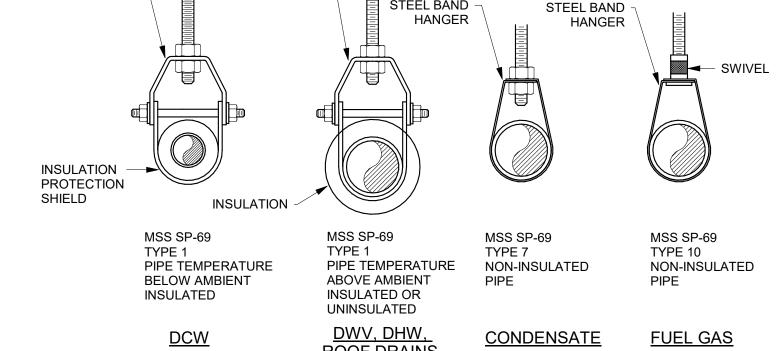
NOTE: PROVIDE MIXING VALVES AT ALL HAND WASHING FIXTURES WATER HEATER W RECIRC

SCALE: NTS

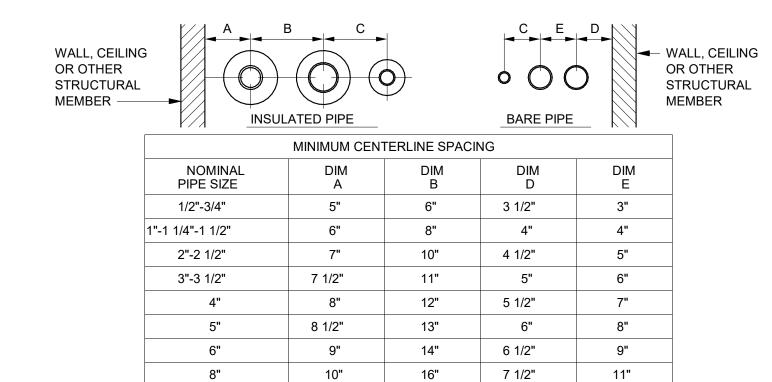


6 VENT THRU ROOF
SCALE: NTS

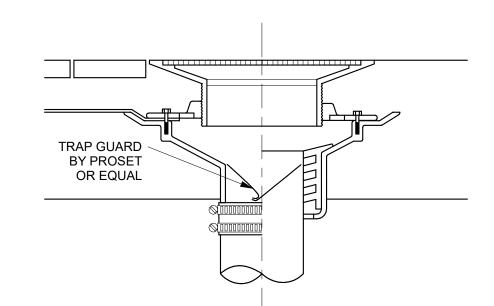




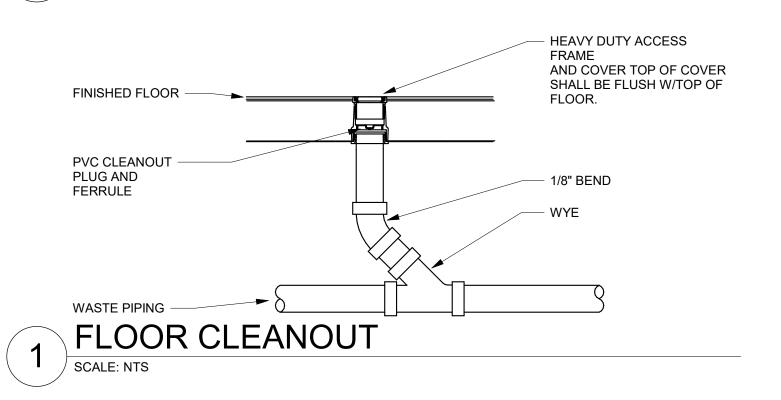
PIPE HANGERS x4 SCALE: NTS



PIPE CLEARANCES
SCALE: NTS



FLOOR DRAIN
SCALE: NTS



REV.	[	DATE
PROJEC	CT#	1
DATE:		10/09/
TITLE:		
PLU	MBING	DETAIL

ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND

CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

P-501

SERVICE	VALVE TYPE	PIPE SIZE	DESCRIPTION
	BALL VALVE	2" & SMALLER	COPPER ALLOY, 2-PIECE, STANDARD PORT, CHROME PLATED BALL, TFE SEAT, LEVER HANDLE, 400 PSIG WOG, MSS SP-110, SOLDERED OR THREADED END
OMESTIC WATER SERVICE	CHECK VALVE	2" & SMALLER	BRONZE BODY, SPRING TYPE, TFE SEAT, BRONZE DISC, SOLDERED OR THREADED ENDS, MSS SP-80
	UNION	2" & SMALLER	ASTM B16.39, CLASS 150, MALLEABE IRON, HEXAGONAL STOCK BODY, BRONZE-TO-BRONZE SEAT
NATURAL GAS	BALL VALVE	2" & SMALLER	COPPER ALLOY, 2-PIECE, STANDARD PORT, CHROME PLATED BALL, TFE SEAT, LEVER HANDLE, 400 PSIG WOG, MSS SP-110, AGA APPROVED, ASME B26.33, THREADED END
	UNION	2" & SMALLER	ASTM B16.39, CLASS 150, MALLEABEL IRON, HEXAGONAL STOCK BODY, BRONZE-TO-BRONZE SEAT

	PLUMBING FIXTURE SCHEDULE										
REFER TO	PLUMBING SPECIFICATI	ONS FOR COM	IPLETE FIXT	URE COMPO	DNENTS						
LABEL	DESCRIPTION	WASTE	TRAP	VENT	CW	HW	MANUFACTURER	MODEL	REMARKS		
EWC	BI-LEVEL ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1 1/2"	1/2"	0"	ELKAY	EZSTL8	ELECTRICAL DATA: 120/1, 4 FLA, 370 WATTS		
FCO	FLOOR CLEANOUT	0"		0"	0"	0"	ZURN	Z1400 SERIES	SIZE TO MATCH PIPE BEING SERVED		
FD	FLOOR DRAIN	2"	2"	2"	0"	0"	FIXTURE: ZURN TRAP SEAL: RECTORSEAL	FIXTURE: Z415-BZ1 TRAP SEAL: SURESEAL	TRAP SEAL TO MATCH FD SIZE		
FS	FLOOR SINK	3"	3"	2"	0"	0"	ZURN	Z1900-2	PROVIDE HALF GRATE		
LAV-A	COUNTERTOP LAVATORY (ACCESSIBLE)	1 1/4"	1 1/4"	1 1/2"	1/2"	1/2"	FIXTURE: KOHLER FAUCET: KOHLER INSULATION: TRUEBRO TMV: WEBSTONE	FIXTURE: K-2839-1 FAUCET: K-13461 INSULATION: LAV GAURD 2 TMV: H-77211W-TG	SET TMV AT 110 DEG. F.		
МОР	SERVICE SINK	3"	3"	2"	3/4"	3/4"	FIXTURE: MUSTEE FAUCET:KOHLER	FIXTURE: 63M FAUCET: K-8907	PROVIDE HOSE AND HOSE HOLDER, MOP HANGER, BUMPER AND WALL GUARDS		
SHR-A	SHOWER (ACCESSIBLE)	0"	"FD"	0"	1/2"	1/2"	KOHLER	K-10827-4	MOUNT FOR ADA REQUIREMENTS		
WC	FLOOR MOUNT TANK WATER CLOSET	3"	INT.	2"	3/4"	0"	FIXTURE: KOHLER SEAT: BEMIS	FIXTURE: K-3519 SEAT: 1955CTJ			
WC-A	FLOOR MOUNT TANK WATER CLOSET (ACCESSIBLE)	3"	INT.	2"	1"	0"	FIXTURE: KOHLER SEAT: BEMIS	FIXTURE: K-3519 SEAT: 1955CTJ			

**EQUIPMENT** 

**EQUIPMENT** 

SHOWER HEAD LAVATORY

SERVICE SINK

TOTAL

LAVATORY

OCCUPANCY

PRIVATE

OFFICES, ETC. FAUCET

PUBLIC

PUBLIC

OFFICES, ETC. 3/8" VALVE

FAUCET

DOMESTIC EXPANSION TANK SCHEDULE								
ACCEPTABLE MANUFACTURERS: NOTES:								
WATTS DET AMTROL ST BEWLL & GOSSETT PT					(1) BUTYL DIAPHRAGM (2) RIGID POLYPROPYLENE LINER			
SYMBOL	MANUFACTURER	MODEL	TANK VOLUME (GALLONS)	MINIMUM ACCEPTANCE VOLUME (GALLONS)		INITIAL FILL PRESSURE (PSIG)	COMMENTS	
DET-1	AMTROL	ST-5	2		.45	50	ALL	

				DON	<b>MESTIC</b>	RECI	RC PL	JMP S	CHEDULE		
	APPROVED	EQUALS:			REMARKS:						
	GRUNDFOS BELL & GO				<b>\</b> /	TS SHALL BE	CONSTRUC		RDING TO MANUFACTUR RER AND INCLUSIVE TO F		ATIONS
_	LABEL	PUMP HEAD (FT)	PUMP GPM	FLA	kW	VOLT	PH	Hz	MANUFACTURER	MODEL	REMARKS
_	DCP-1	5.00 psi	10 GPM	1 A	.125	120 V	1	60 Hz	BELL & GOSSETT	NBF-25	ALL

ACCEPTA	BLE MANUFA	CTURERS:		NOTES:		
PIETRO F MAXITRO	IORENTINI L			(1) 2.0 PSIG INLET PRESSURE, 850 BTU PER C.F. (2) 4 OZ (7" W.C.) OUTLET PRESSURE (3) DIE CAST ALIMINUM BODY, NITRILE DIAPHRAGM (4) NPT THREADED INLET & OUTLET (5) BALL CHECK AUTOMATIC VENT LIMITING DEVICE		
SYMBOL	LOCATION	MANUFACTURER	MODEL NUMBER	REGULATOR SIZE (INCHES)	CAPACITY (CFH)	NOTES
			F30051	1/2	928	
יייי אטני	INDOOR /	PF REGULATOR	F30052	3/4	1155	ALL
	OUTDOOR		F30053	1	1501	ALL
			F3013	1-1/4	7894	

SANITARY	<b>SEWI</b>	ER DEMA	ND
	BASIS FOR DES	BIGN	
2015 INTERNATIONAL PLUMBING	CODE - MINIMUM	SLOPE = 1/8" PER FOOT	
CHAPTER 7 - SAN	ITARY DRAINAGE	- REQUIRED PIPE SIZE =	4"
TABLE 710.1(1) - BUILDING DRAINS AND S	SEWERS - 180 DF	U'S PERMITTED ON MAIN	•
EQUIPMENT	QUANTITY	INDIVIDUAL DRAINGE FIXTURE UNIT	TOTAL DRAINAGE FIXTURE UNITS
DRINKING FOUNTAIN	1	1	1
FLOOR DRAINS	4	2	8
FLOOR SINKS	1	2	2
LAVATORY	4	1	4
SERVICE SINK	1	2	2
SHOWER HEAD	2	0	0
WATER CLOSET, FLUSHOMETER TANK, PUBLIC OR PRIVATE	4	3	12
TOTAL	17		29

SERVICE	PIPE MATERIAL	FITTINGS	JOINTS	NOTES
DOMESTIC WATER	ASTM B88 TYPE "L" COPPER TUBING	ASTM B16.18 CAST COPPER-ALLOY SOLDER JOINT OR ASTM B16.22 WROUGHT COPPER SOLDER JOINT	ASTM B32 LEAD FREE SOLDER	
DISTRIBUTION	ASTM F876 AND/OR F877 CROSS-LINKED POLYETHYLENE (PEX) SDR 9	ASTM F877 LEAD FREE BRASS INSERT OR ASTM F 1960 ENG. PLASTIC INSERT	ASTM F877 COPPER CRIMP RING OR ASTM F 1960 COLD EXPANSION	FITTING AND JOINING METHOD APPROVE BY PIPE MANUFACTURER PROVIDE A 2-FT x 3-FT THERMAL EXPANSION LOOP FOR EVERY 60 FT OF LINEAR HOT WATER PIPE SECTION
DRAIN WASTE AND VENT (BELOW GRADE)	ASTM F 891 SCHEDULE 40 CELLULAR CORE PVC	ASTM AD 2665 DRAINAGE PATTERN	ASTM D 2564 SOLVENT CEMENT	
DRAIN WASTE AND VENT (ABOVE GRADE)	ASTM F 891 SCHEDULE 40 CELLULAR CORE PVC	ASTM AD 2665 DRAINAGE PATTERN	ASTM D 2564 SOLVENT CEMENT	
NATURAL GAS	ASTM A53 SCHEDULE 40 BLACK STEEL	ASTM B16.3 CLASS 150 MALLEABLE IRON OR ASTM B16.9 BUTT WELDED STEEL	THREADED TEFLON TAPE	
CONDENSATE DRAIN	ASTM D 1785 SCHEDULE 40 POLYVINYL CHLORIDE (PVC)	ASTM D 2466 PVC SOCKET JOINT	ASTM F 656 PURPLE PRIMER ASTM D 2664 SOLVENT CEMENT	

		IECC TABL	LE C	403.11	.3								
MINIMU		INSULATI				(in inc	hes						
FLUID OPERATING	INSULAT	ION CONDUCTIVITY	NOMINAL PIPE SIZE (inches)										
TEMPERATURE RANGE AND USAGE (F)	CONDUCTIVIT Y (BTU / IN.)	MEAN RATING TEMPERATURE (F)	< 1	1 to < 1 1/2	1 1/2 to < 4	4 to < 8	> 8						
251 - 350	0.29 - 0.32	200	3.0	4.0	4.5	4.5	4.5						
201 - 250	0.27 - 0.30	150	2.5	2.5	2.5	3.0	3.0						
141 - 200	0.25 - 0.29	125	1.5	1.5	2.0	2.0	2.0						
105 - 140	0.21 - 0.28	100	1.0	1.0	1.5	1.5	1.5						
40 - 60	0.21 - 0.27	75	0.5	0.5	1.0	1.0	1.0						
< 40	0.20 - 0.26	50	0.5	1.0	1.0	1.0	1.5						

1. FOR PIPING SMALLER THAN 1 1/2" INCHES AND LOCATED IN PARTITIONS WITHIN CONDITIONED SPACES, REDUCTION OF THESE THICKENESS BY 1" SHALL BE PERMITTED, BUT NOT TO A THICKNESS LESS THAN 1 INCH.

2. FOR DIRECT-BURIED HEATING AND HOT WATER PIPING, REDUCTION OF THICKNESSES BY 1 1/2" SHALL BE PERMITTED, BUT NOT

LESS THAN 1 INCH

SERVICE SINK	OFFICES, ETC.	FAUCET	1	3	3
SHOWER HEAD	PRIVATE	MIXING VALVE	2	1.4	2.8
WATER CLOSET, FLUSHOMETER TANK, PUBLIC OR PRIVATE	PUBLIC	FLUSH TANK	4	2.2	8.8
TOTAL			12		23.6
	OMES	TIC HOT W	ATER D	EMAN	1D
20	)15 INTERNATIONAL	L PLUMBING CODE - TABLE	E103.3(3) ESTIMATE	D DEMAND (GPI	M): 14.8
		PIPE	SIZE (WATER SUPP	LY TO BUILDING	G): 1 1/4"
201	5 INTERNATIONAL F	PLUMBING CODE - FIGURE E	E103.3(5) PIPE FRICT	ION (PSI / 100 F	T): 3.0
			PIPE VELOCITY	(FEET / SECONI	O): 2.8
		TYPE OF SUPPLY	WATER	IBINED R SUPPLY RE UNITS	TOTAL WATE

OCCUPANCY CONTROL QUANTITY

FAUCET

MIXING VALVE

TYPE OF SUPPLY

CONTROL

DOMESTIC COLD WATER DEMAND

2015 INTERNATIONAL PLUMBING CODE - TABLE E103.3(3) ESTIMATED DEMAND (GPM):

2015 INTERNATIONAL PLUMBING CODE - FIGURE E103.3(5) PIPE FRICTION (PSI / 100 FT):

PIPE SIZE (WATER SUPPLY TO BUILDING):

QUANTITY

PIPE VELOCITY (FEET / SECOND):

2.25

(WSFU)

21.0

1 1/4"

3.9 5.0

(WSFU)

**UNITS (WSFU)** 

2.25

10.25

COMBINED TOTAL WATER

| FIXTURE UNITS | FIXTURE UNITS |

WATER SUPPLY SUPPLY

ROFESS 1 01 ROFESS 1 01 RACHEL D. HINTEN 10/14/19
- T 01

REV.	D	ATE
PROJEC	CT#	191
DATE:		10/09/19
TITLE:		
PLUM	ibing sc	HEDULE

ANY CHANGES OR MODIFICATIONS TO THE SHEET: DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND

APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

	SYMBOLS LEGEND		SYMBOLS LEGEND		SYMBOLS LEGEND
SYMBOL		SYMBOL	DESCRIPTION	SYMBOL	
REFERENC	E AND LINE SYMBOLS	WIRING DE	EVICES	ELECTRIC	CAL POWER AND DISTRIBUTION
A5	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501	<u> </u>	RECEPTACLE, DUPLEX: NEMA 5-20R.	Ţ	
E-501	INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.	₩ A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.		DISCONNECT, FUSED (ONE-LINE DIAGRAM).
ROOM NAME	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.	₩ c	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.		
\(\frac{1}{2}\)	KEYNOTE INDICATOR.		RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER	(	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
$\frac{\Box}{1}$	REVISION INDICATOR.	∯ DF	RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION		MOTOR.
(CU-1)	EQUIPMENT INDICATOR.	∭s	REQUIREMENTS.  RECEPTACLE, DUPLEX, SWITCHED: NEMA 5-20R.		
X-X XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO	₩ w	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF IN USE": NEMA 5-20R.		TRANSFORMER (ONE-LINE DIAGRAM).
	EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.  BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING	₩ <sub>P</sub>	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.	"1H"	PANELBOARD (ONE-LINE DIAGRAM).
$\sim$	BREAK, ROUND	#	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.		
MATCH LINE SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.	₩ <sub>WP</sub>	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.	225/3	
	NEW LINE: MEDIUM LINE.	#	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.	"1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	EXISTING TO REMAIN LINE: THIN LINE.	#	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.		
	DEMOLITION LINE: DASHED, MEDIUM LINE	<b>b</b>	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.	205/2	
WIRING ME	ETHODS	<u></u>	RECEPTACLE, DRYER: NEMA 14-30R.	)225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS
	WIRING.	₩ ₩R	RECEPTACLE, RANGE: NEMA 14-50R.		SHOWN (ONE-LINE DIAGRAM).
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE	FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.		CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	ELECTRICAL SPECIFICATIONS.	Ф	SWITCH, DIMMER.		
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND	\$ \$	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).	(M)	METER.
1	NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.  NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT	\$2	SWITCH, DOUBLE POLE ("x" INDICATES FIXTURES CONTROLLED).		DISCONNECT SWITCH, FUSED.
A-1,3,5	SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL	\$3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).		DISCONNECT SWITCH, UNFUSED.
	SPECIFICATIONS.	X \$4	SWITCH, FOUR-WAY ("x" INDICATES FIXTURES CONTROLLED).	•	PUSHBUTTON.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.	\$K	SWITCH, KEY OPERATED.	:	PUSHBUTTONS, MOTOR CONTROL.
+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.	\$Т	SWITCH, TIMER OPERATED.	<u>F77</u>	PANELBOARD CABINET, FLUSH MOUNTED.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.	<b></b> ⊎ т	RECEPTACLE, DUPLEX, TAMPER RESISTANT: NEMA 5-20R.		PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
HC	ADA ACCESS PUSH PLATE	₩.	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET	7-7-7-7	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
0	JUNCTION BOX.	LIGHTING (	REFER TO FIXTURE SCHEDULE FOR SYMBOLS)		DIOTRIPUTION DANIEL OR CANITOLIDO ARR
<u>_</u>	EARTH GROUND (ONE-LINE DIAGRAM).	(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS	DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
Фс	JUNCTION BOX, CEILING.		SCHEDULED.	\$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
•	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.	(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK,	HC	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
SITE ELEC	TRICAL AND COMMUNICATIONS UTILITIES		CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.	FIRE ALAI	RM
-0-	UTILITY POLE.	EM	EMERGENCY.	FSA	FIRE SYSTEM ANNUNCIATOR.
F	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.	NL	NIGHT LIGHT: DO NOT SWITCH.	FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
<u> </u>	UTILITY, COMMUNICATIONS MANHOLE.	<b>↑</b>	EGRESS DIRECTION ARROW (EXIT SIGNS).	СМ	CONTROL MODULE.
(E)	UTILITY, ELECTRICAL MANHOLE.	$\otimes$	EXIT SIGN: SINGLE FACE; CEILING MOUNTED	ММ	MONITOR MODULE.
(T)	UTILITY, TELEPHONE MANHOLE.	<b>№</b> №	EXIT SIGN: SINGLE FACE; WALL MOUNTED	Р	FIRE ALARM MANUAL PULL STATION.
Т	TRANSFORMER.		EXIT SIGN: DOUBLE FACE; CEILING MOUNTED		SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT
STRUCTUR	RED CABLING	•	EXIT SIGN: DOUBLE FACE; WALL MOUNTED	R	OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
Δx	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).	LIGHTING (	CONTROL	<u>5</u>	MAGNETIC DOOR HOLDER.
(( <u>\(\phi\)</u> )	DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE	*	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.	<u>s</u>	DETECTOR, SMOKE.
√W	TELEPHONE, WALL MOUNTED: WALL PHONE.	*	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.		
▼X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF		OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.	<b>S</b>	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
<b>A</b>	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA		VACANCY SENSOR, DUAL TECHNOLOGY,		DETECTOR, HEAT.
<b>V</b>	COMMUNICATION.  TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC,	***	OMNI-DIRECTIONAL, CEILING.  VACANCY SENSOR, DUAL TECHNOLOGY, WALL.	75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
·	WALL MOUNTED IN RECESSED BOX.  TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD	(P)	PHOTOCELL.		P ALARM, HORN/SPEAKER, WEATHERPROOF.
SECURITY	PAINTED.				ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT
	INTRUSION DETECTION HEADEND FOLUDATIVE		CEILING FAN.		INDICATES CANDELA RÁTING.
SEC	INTRUSION DETECTION HEADEND EQUIPMENT.	*	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.		FIRE AND SMOKE DAMPER.
CR CR	CARD READER.	*	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.	@ FSD	
TV DISTRIE		*\$* **	DIMMER SWITCH/OCCUPANCY SENSOR COMBO,	<u>CO</u>	DETECTOR, CARBON MONOXIDE.  ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED.
•	TV OUTLET.	(Î)	DUAL TECHNOLOGY, WALL.  DIMMER SWITCH/VACANCY SENSOR	D@47	SUBSCRIPT INDICATES CANDELA RATING.
		™ RC	COMBO, DUAL TECHNOLOGY, WALL.  DIGITAL LIGHTING ROOM CONTROLLER	DO 75 ⊗ 75	CANDELA RATING.  ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT
			DISTINE EIGHT HO NOOM OOM INCLEIN	\\ \\ \\ \'3	INDICATES CANDELA RATING.

#### **ABBREVIATIONS**

CFBA

CM

CND

CO

COR

CTV

CU

dBA

DPDT

CUSTOM FINISH AS SELECTED

CONSTRUCTION MANAGER

CONVENIENCE OUTLET

REPRESENTATIVE

CABLE TELEVISION

UNIT OF SOUND LEVEL

DOUBLE POLE, DOUBLE

DISCONNECT SWITCH

EMT ELECTRICAL METALLIC TUBING

ELECTRIC NONMETALLIC

EMERGENCY POWER OFF

FURNITURE MOUNTED

FCP FIRE ALARM CONTROL PANEL

FREIGHT ON BOARD

FULL VOLTAGE REVERSING

GROUND FAULT INTERRUPTER

GROUND FAULT PROTECTION

HIGH INTENSITY DISCHARGE

HAND-OFF-AUTOMATIC

HIGH POWER FACTOR

HIGH PRESSURE SODIUM

FULL LOAD AMPS

FMC FLEXIBLE METAL CONDUIT

NON-REVERSING

CONTROL PANEL

CONTRACTING OFFICER'S

CURRENT TRANSFORMER

BY ARCHITECT

CIRCUIT

CONDUIT

COPPER

EACH

EQUIP EQUIPMENT

EXISTING

FVNR FULL VOLTAGE

GROUND

GENERATOR

**HEAVY DUTY** 

HORSE POWER

HIGH VOLTAGE

INPUT/ OUTPUT

ISOLATED GROUND

INTERMEDIATE METAL

INSULATED/ ISOLATED

HERTZ

CONDUIT

INFRARED

J-BOX JUNCTION BOX

HOA

HPS

HV

HΖ

I/O

FIRE ALARM

	NOTE: ALL ABBREVIAT	ONS MA	Y NOT BE USED.
1P	SINGLE POLE	kV	KILOVOLT
1PH	SINGLE-PHASE	kVA	KILOVOLT AMPERE
1WAY	ONE-WAY	kVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	kW	KILOWATT
2WAY	TWO-WAY	kWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3WAY 4OUT	THREE-WAY QUADRUPLE RECEPTACLE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
4PDT	OUTLET FOUR-POLE DOUBLE THROW	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4PST	FOUR-POLE SINGLE THROW	LPS	LOW PRESSURE SODIUM
4W	FOUR-WIRE	LRA	LOCKED ROTOR AMPS
4WAY		LTG	LIGHTING
Α	ABOVE COUNTER	LV	LOW VOLTAGE
AC ADA	ARMORED CABLE AMERICANS WITH DISABILITIES	MATV	MASTER ANTENNA TELEVISION SYSTEM
ADA	ACT	MAX	MAXIMUM
ADJ	ADJACENT	МС	METAL CLAD
AFF	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISHED GRADE	мсв	MAIN CIRCUIT BREAKER
AIC	AMPERE INTERRUPTING	мсс	MOTOR CONTROL CENTER
7 0	CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MG	MOTOR GENERATOR
ANN	ANNUNCIATOR	MH	MANHOLE
AP	ACCESS POINT (WIRELESS	MIN	MINIMUM
	DATA)	MLO	MAIN LUGS ONLY
AR ASC	AS REQUIRED  AMPS SHORT CIRCUIT	MOCP	MAXIMUM OVERCURRENT PROTECTION
ATS	AUTOMATIC TRANSFER	NA	NOT APPLICABLE
	SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG BB	AMERICAN WIRE GAGE BUCK-BOOST TRANSFORMER	NEMA	NATIOANL ELECTRICAL MANUFACTURERS ASSOCIATION
XFMR C	CEILING MOUNTED	NFC	
_	CEILING MOUNTED	NFPA	NATIONAL FIRE PROTECTION
CATV	COMMUNITY ANTENNA TELEVISION		NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NL NO	NIGHT LIGHT NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED	OC OCP	ON CENTER
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED	OF/CI	OVER CURRENT PROTECTION OWNER FURNISHED/ CONTRACTOR INSTALLED
CFBA	CUSTOM FINISH AS SELECTED	05/01	OWNED FURNISHED OWNED

OF/OI

QTY

SCBA

SFBA

SPST

SWGR

TVSS

OWNER FURNISHED/ OWNER

POTENTIAL TRANSFORMER

REFLECTED CEILING PLAN

RIGID NONMETAL CONDUIT

REMOVE AND RELOCATE

SHORT CIRCUIT AMPS

STANDARD COLOR AS

SQUARE FOOT (FEET)

STANDARD FINISH AS

SPDT SINGLE POLE, DOUBLE THROW

SINGLE THROW

TELEPHONE POLE

TWISTED PAIR

SUPPRESSER

UNDERFLOOR

**VOLT AMPERE** 

CONTROLLER

WEATHERPROOF

SWITCHGEAR

TWIST LOCK

**TELEVISION** 

TYPICAL

UGND UNDERGROUND

SUPPLY

VOLTS

WITH

XFMR TRANSFORMER

W/O WITHOUT

SELECTED BY ARCHITECT

SELECTED BY ARCHITECT

SURGE PROTECTIVE DEVICE

SINGLE POLE, SINGLE THROW

TELEPHONE TERMINAL BOARD

TRANSIENT VOLTAGE SURGE

UNINTERRUPTIBLE POWER

VFC/VF VARIABLE FREQUENCY MOTOR

RIGID METAL CONDUIT

RPM REVOLUTIONS PER MINUTE

START/STOP

SPEC SPECIFICATION

SWBD SWITCHBOARD

OBTAIN FROM PLANS

OH DR OVERHEAD (COILING) DOOR

INSTALLED

OVERLOAD

PHASE

PANEL

PUSHBUTTON

POWER FACTOR

PAN/TILT/ZOOM

QUANTITY

REMOVE

#### **ELECTRICAL SHEET INDEX**

EE-001 SHEET INDEX, SYMBOL LEGEND, AND GENERAL NOTES

EE-701 TYPICAL MOUNTING HEIGHT DETAILS ED-101 POWER & LIGHTING DEMOLITION PLANS EP-140 MAIN FLOOR POWER & LIGHTING PLANS EP-601 PANEL & EQUIPMENT SCHEDULES

EP-602 LIGHTING FIXTURE SCHEDULE

#### **DEFINITIONS**

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

## **GENERAL**

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS. MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS

OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE

> RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF DAMAGED, DEFECTIVE OR ITEMS WITH THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES. AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.

C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE.THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT **COMPLY WITH THESE** REQUIREMENTS TO THE ARCHITECT.

EACH TAB.

ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

LEGEND, AND GENERAL NOTES

PROJECT #

ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND

APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

### **ELECTRICAL NOTES**

THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

INCLUDED IN THE CONTRACT SUM.

A. THE INSTALLER'S

B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON OWNER FURNISHED ITEMS ARE MISSING, DOCUMENT DAMAGED TRANSPORT COMPANY AND THE

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

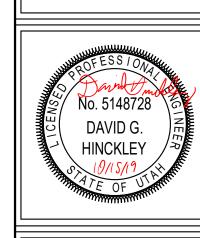
ALL WORK SHALL BE DONE

SHEET INDEX, SYMBOL

UITE S  $\mathbf{\Omega}$ 2

#

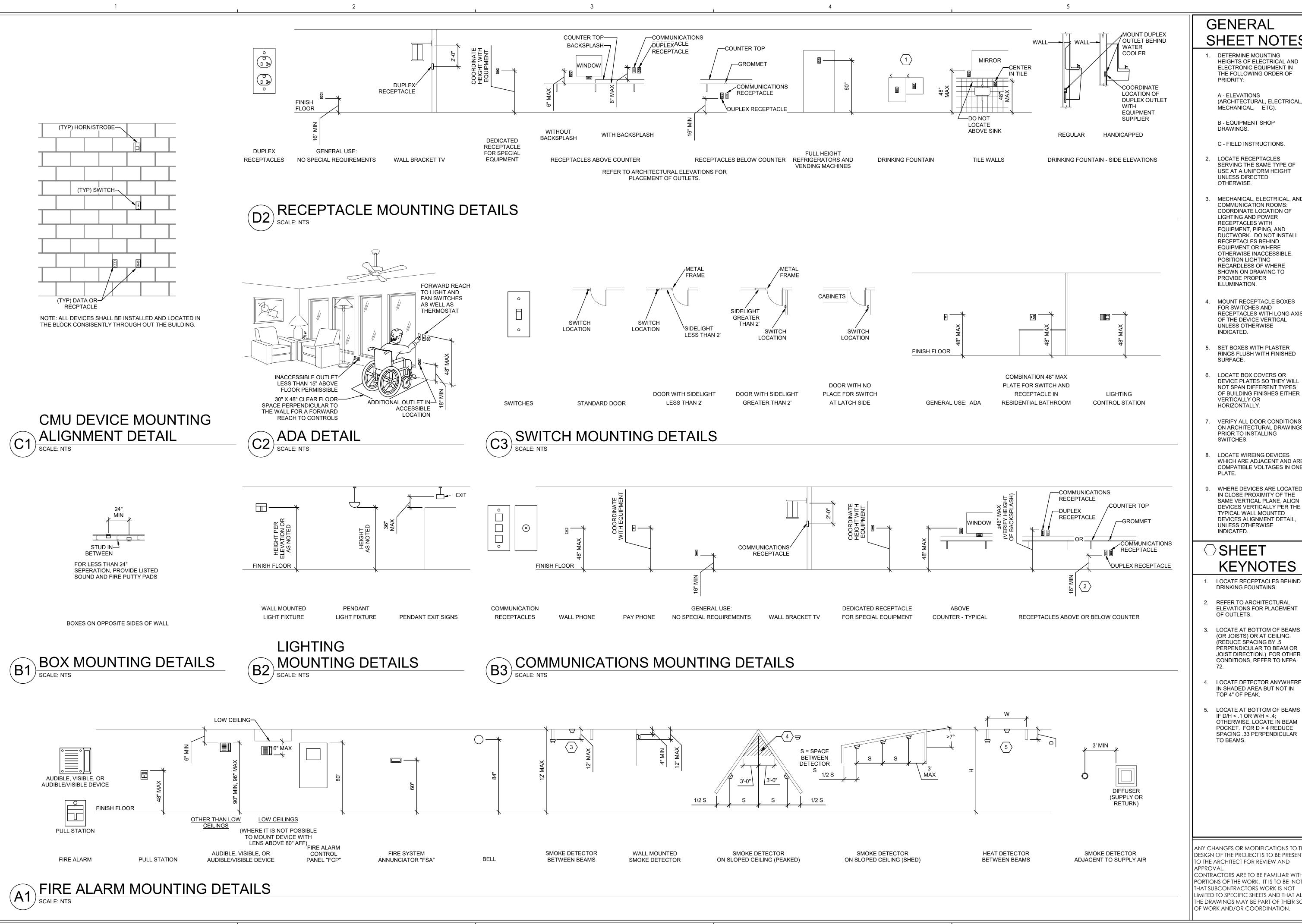
**SPECTRUM** 324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077 801-328-5151 fax: 801-328-5155 www.spectrum-engineers.com



DATE

1918

10/09/19



#### **GENERAL** SHEET NOTES

 DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND **ELECTRONIC EQUIPMENT IN** THE FOLLOWING ORDER OF PRIORITY:

A - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).

B - EQUIPMENT SHOP DRAWINGS.

C - FIELD INSTRUCTIONS.

2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.

MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER **RECEPTACLES WITH** EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND **EQUIPMENT OR WHERE** OTHERWISE INACCESSIBLE POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER

4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.

5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.

6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.

7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.

8. LOCATE WIREING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE

WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, **UNLESS OTHERWISE** 

> SPECTRUM 324 S. State St., Suite 400 Salt Lake City, UT 84111 800-678-7077

DRINKING FOUNTAINS. REFER TO ARCHITECTURAL

ELEVATIONS FOR PLACEMENT OF OUTLETS. 3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5

4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN

5. LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR

www.spectrum-engineers.com DAVID G. HINCKLEY

801-328-5151

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 $\Box$ 

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SUITE

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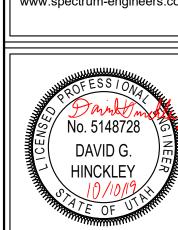
REV. DATE PROJECT # 1918 10/09/19

TYPICAL MOUNTING

HEIGHT DETAILS

ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND

CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE

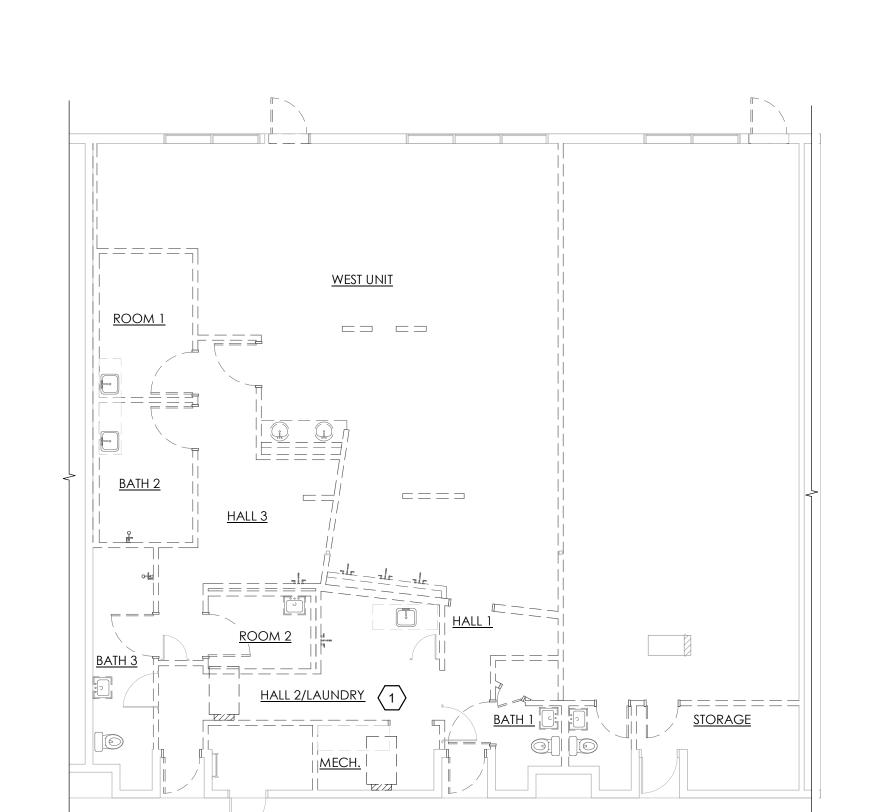


PROJECT # 1918 10/09/19

POWER & LIGHTING DEMOLITION PLANS

ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.

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A2 LIGHTING DEMOLITION PLAN

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

ELECTRICAL DEMOLITION PLAN

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

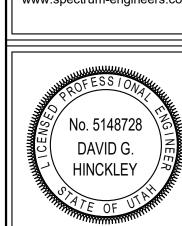
**GENERAL** 

SHEET NOTES

 $\bigcirc$ SHEET

KEYNOTES 1 REMOVE ALL EXISTING
ELECTRICAL IN REMODELED
AREAS. PULL BACK WIRING TO
PANEL. PANELS IN SPACE ARE
LIKEWISE TO BE REMOVED.
REMOVE ASSOCIATED FEEDERS
UNLESS THEY CAN BE USED
FOR NEW PANELS.

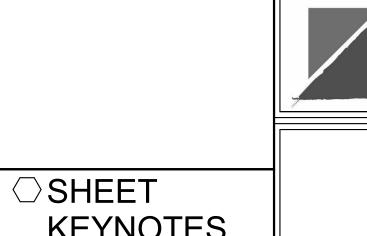
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DATE PROJECT # 1918 10/09/19 MAIN FLOOR POWER & LIGHTING PLANS

ANY CHANGES OR MODIFICATIONS TO THE DESIGN OF THE PROJECT IS TO BE PRESENTED

TO THE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.



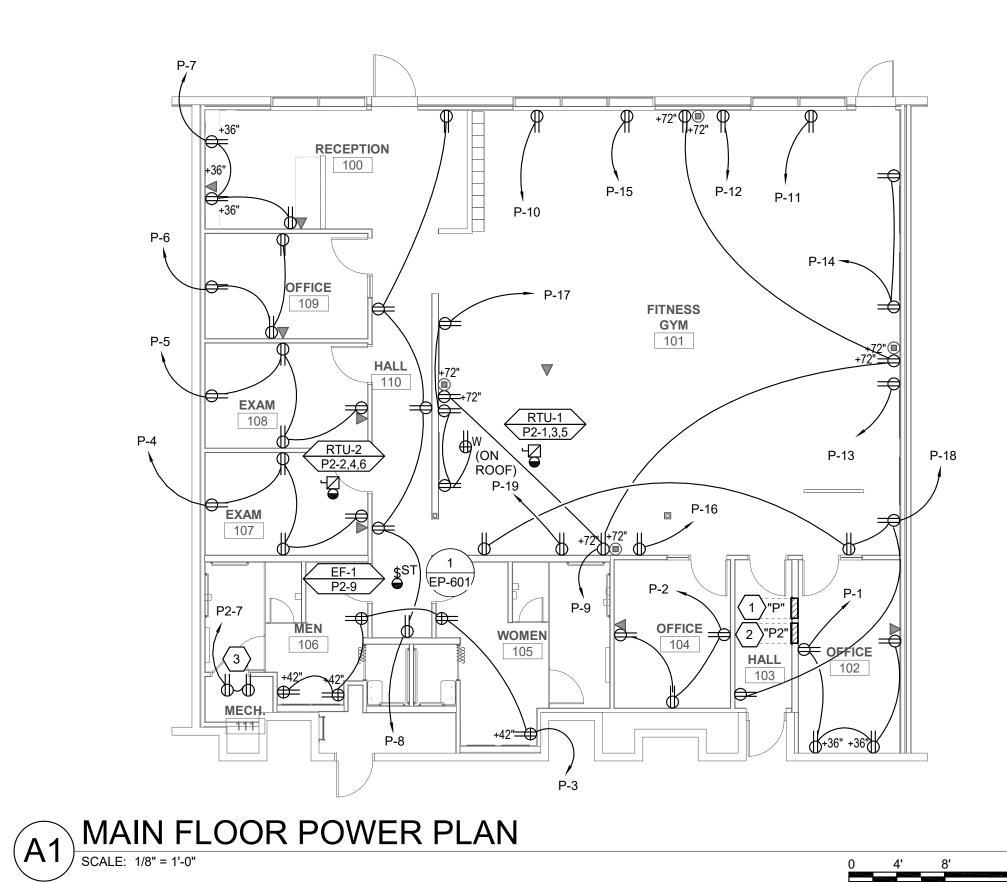
# KEYNOTES

**GENERAL** 

SHEET NOTES

1 IN EXAM ROOMS USE HCF RATED M.C. CABLING FOR ALL ELECTRICAL (FROM PANEL TO EACH DEVICE/LIGHT IN ROOM). ALL OTHER ROOMS MAY USE STANDARD M.C. CABLE.

- 1 FOR PANEL "P" PROVIDE 100A FEEDER FROM EXISTING 100/3 BREAKER AT FAR WEST END OF BUILDING (FIELD VERIFY LOCATION PRIOR TO BIDDING). WIRE SIZE TO BE 4#2AWG CU, #6GR, 1.5"C. IF THERE IS AN EXISTING FEEDER WITH SUFFICIENT LENGTH RUNNING TO THIS SPACE THAT MATCHES THIS SIZE, THIS FEEDER MAY BE USED. PROVIDE ASSOCIATED CREDITS IF EXISTING FEEDER IS USED.
- 2 FOR PANEL "P2" PROVIDE 100A FEEDER FROM EXISTING 100/3 BREAKER AT FAR WEST END OF BUILDING (FIELD VERIFY LOCATION PRIOR TO BIDDING). WIRE SIZE TO BE 4#2AWG CU, #6GR, 1.5"C. IF THERE IS AN EXISTING FEEDER WITH SUFFICIENT LENGTH RUNNING TO THIS SPACE THAT MATCHES THIS SIZE, THIS FEEDER MAY BE USED. PROVIDE ASSOCIATED CREDITS IF EXISTING FEEDER IS USED.
- 3 COORDINATE LOCATION OF WATER HEATER AND RECIRC PUMP WITH PLUMBING CONTRACTOR AND PLACE DUPLEX OUTLET IN APPROPRIATE LOCATION TO SERVE THIS EQUIPMENT.





OFFICE 102

P-21

OFFICE 109

**EXAM** 108

**EXAM** 107

E - DIVISION 26 Q - FURNISHED WITH EQUIPMENT

\* - AUTOMATIC CONTROL WIRING BY DIVISION 23

1. NEMA 3R 2. TOGGLE SWITCH W/ THERMAL OVERLOAD

7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY. 8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR."

3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP 9. LINE VOLTAGE THERMOSTAT ON WALL. 4. CONTRACTOR TO PERFOM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS 10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS.

10. PROVIDE EXPLOSION FROOF DEVIOLS AND WINNES INC. 1. 1. 1. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANLDER.

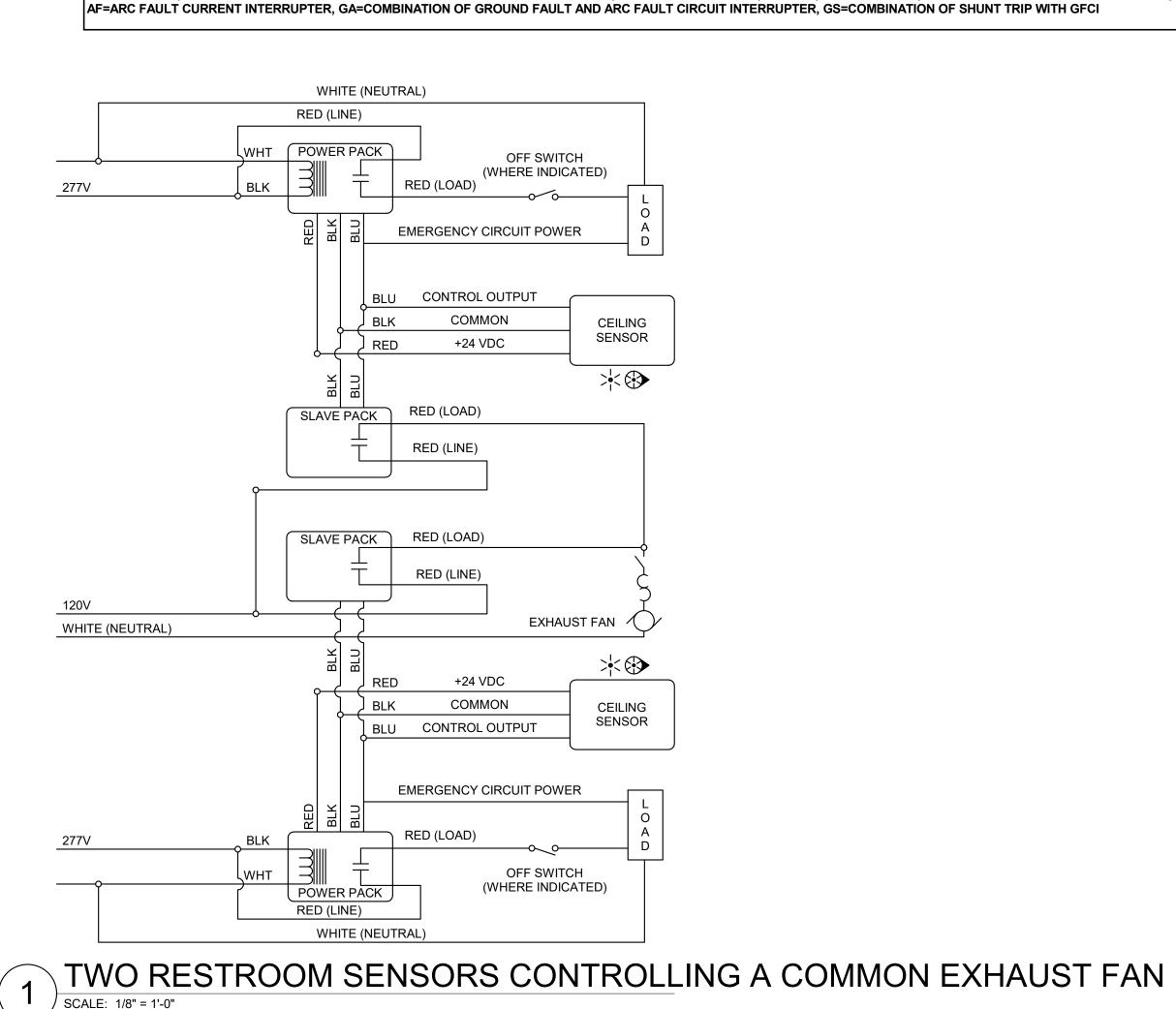
11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANLDER. 5. TOGGLE SWITCH W/BACNET INTERFACE.

					LO	AD DA	TA						OVERCURRENT PROTECTION DISCONNECT STARTER													
MARK	QTY	ITEM DESCRIPTION	НР	kW	MCA	FLA	VOL T	PH	Hz	WIRE AND CONDUIT SIZE	FURN BY		LOCATION	FURN BY		LOCATION	FURN BY	DEVICE		SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACT		FAILURE	NOTES	MARK
EF-1	1	EXHAUST FAN		-	-	2	120	1	60	2 #12, 12 GR 0.75" CND	E	15/1 CB	P2	Е	TOGGLE SWITCH	P2	Q	-	-	-	-	-	-	-		EF-1
RTU-1	1	ROOF TOP UNIT		-	-	32.2	208	3	60	3 #6, #10 GR 1" CND	Е	50/3 CB	P2	E	60A/3P FRN-40	P2	Q	-	-	-	-	-	-	-		RTU-1
RTU-2	1	ROOF TOP UNIT		-	-	23.3	208	3	60	3 #8, #10 GR 1" CND	E	40/3 CB	P2	E	60A/3P FRN-35	P2	Q	-	-	-	-	-	-	-		RTU-2

/OLT	S/PHA	SE/WII	RE:		PAN	EL SIZ	E & TYPE:	MAIN SIZE	AND TY	PE:		ļ.	FED I	FRO	<b>/</b> 1:	CABINET:	LOCATION:		NC	TES:				
120/20	8V, 3 I	PH 4 W	/IRE		22" \	W x 6"	D, BOLT-ON	100 AMPER	RE MAIN	LUG	SS					FLUSH	HALL 103							
ACCE	SSORI	IES:			PAN	EL DIF	RECTORY, IDENT	IFICATION, C	GROUNE	DING	BAR						A	IC RATIN	<b>IG</b> : 10	000				,
СКТ	C OCP LOAD (kVA)				PHASE LOAD							LOAD (kVA)			/A)	ОСР			СК					
NO	AMP	POLE	BKR	LTG	PWR	СО	DESC	RIPTION		Α		В		(	;	D	ESCRIPTION	СО	PWR	LTG	BKR	POLE	AMP	N
1	50	3		0.0	11.6	0.0	R	TU-1		3.9	2.8						RTU-2	0.0	8.4	0.0		3	40	2
3												3.9	2.8											4
5														3.9	2.8							-		6
7	20	1		0.0	0.0	0.4	CO ME	ECH. 111		0.4	0.0						SPARE					1	20	8
9	15	1		0.0	0.2	0.0	EXHA	UST FAN				0.2	0.0				SPARE					1	20	10
11	20	1					SF	PARE						0.0	0.0		SPARE					1	20	12
13	20	1					SF	PARE		0.0	0.0						SPACE					-		14
15	20	1					SF	PARE				0.0	0.0				SPACE					-		16
17	20	1					SF	PARE						0.0	0.0		SPACE					-		18
ОТА	_S:						CONNECTE	D kVA PER P	PHASE	7		7		7	7		CONNE	ECTED T	OTAL	«VA =		21		
							CONNECTED	AMPS PER P	PHASE	59	•	58	3	5	6	AV	ERAGE CONNECTED	AMPS PE	ER PHA	ASE =		57		
NEC D	IVERS	SIFIED	LOAD	CALC	ULAT	IONS																		
LIC	SHTIN	G & C0	DNTINU	JOUS	LOAD	S:		-	- 100%	CON	NEC.	TED L	OAD	PLUS	3 25%		DIV	/ERSIFIE	ED TO	AL k\	/A = <b>23</b>	j.		
			RF	CEPT	ACLE	S: <b>0.4</b>	kVA @ 100% = 0.	4 kVA	- FIRST	10k\	/A @	100%	. REI	MAIN	DER (	@ 50%	AVERA	GE AMP	S PER	PHAS	SE = <b>65</b>	i .		
					, .OLL	o. <b>v.</b> .										OTHER LOADS			O		- ••			

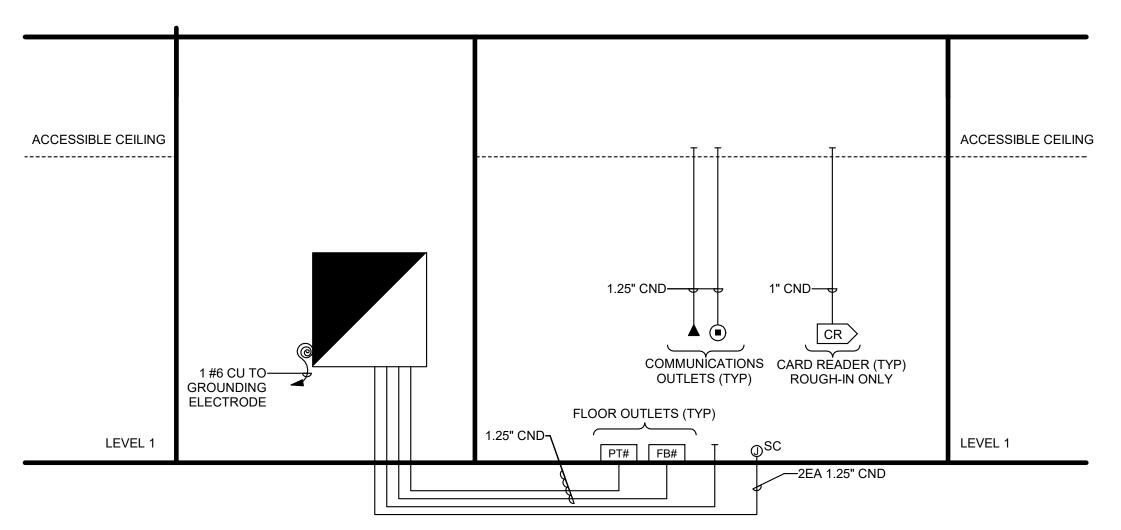
BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER,

- COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER



HAUST FAN	

OLTS/	S/PHA	SE/WIF	RE:		PAN	IEL SIZ	E & TYPE: MAIN SIZE AND	TYPE:	:		FED	FRO	M:	CABINET: LOCATION:		NC	TES:			
20/208	8V, 3 F	PH 4 W	/IRE		22" \	N x 6"	D, BOLT-ON 100 AMPERE MA	IN LU	GS					FLUSH HALL 103						
ACCES	SSORI	ES:			PAN	EL DIF	RECTORY, IDENTIFICATION, GROU	NDING	3 BAF	₹				AIC	RATIN	<b>IG</b> : 10	000			
скт		ОСР		LO	AD (k	VA)	· · · · · · · · · · · · · · · · · · ·		P	PHASE	E LOA	AD			LO	AD (k)	/A)	ОСР		С
	ΔΜΡ		BKR				DESCRIPTION		Α		B			DESCRIPTION	СО	<u> </u>	<del> </del>	BKR POLE	ΔΜΡ	-
1	20	1		0.0	0.0	0.7	CO OFFICE 102	0.7	0.5		<del>-</del>			CO OFFICE 104	0.5	0.0	0.0	1	20	<u> </u>
3	20	1		0.0	0.0	0.9	CO ROOM 105, 106	<b>.</b>		0.9	0.7			CO EXAM 107	0.7	0.0	0.0	1	20	
5	20	1		0.0	0.0	0.7	CO EXAM 108					0.7	0.5	CO OFFICE 109	0.5	0.0	0.0	1	20	t
7	20	1		0.0	0.0	0.5	CO RECEPTION 100	0.5	0.9					CO ROOM 100, 110	0.9	0.0	0.0	1	20	T
9	20	1		0.0	0.0	0.7	CO FITNESS GYM 101			0.7	1.0			POWER FITNESS GYM 101	0.0	1.0	0.0	1	20	T
11	20	1		0.0	1.0	0.0	POWER FITNESS GYM 101					1.0	0.2	CO FITNESS GYM 101	0.2	0.0	0.0	1	20	
13	20	1		0.0	1.0	0.0	POWER FITNESS GYM 101	1.0	1.2					FITNESS GYM 101	0.2	1.0	0.0	1	20	
15	20	1		0.0	0.0	0.2	CO FITNESS GYM 101			0.2	1.0			POWER FITNESS GYM 101	0.0	1.0	0.0	1	20	
17	20	1		0.0	1.0	0.5	CO FITNESS GYM 101					1.5	0.7	CO FITNESS GYM 101	0.7	0.0	0.0	1	20	
19	20	1		0.0	0.0	0.2	CO FITNESS GYM 101	0.2	0.0					SPARE				1	20	
21	20	1		1.8	0.0	0.0	OFFICE/EXAM/RESTRM LTG			1.8	0.0			SPARE				1	20	] :
23	20	1		1.7	0.0	0.0	FITNESS GYM LIGHTING					1.7	0.0	SPARE				1	20	:
25	20	1					SPARE	0.0	0.0					SPARE				1	20	1
27	20	1					SPARE			0.0	0.0			SPARE				1	20	:
29	20	1					SPARE					0.0	0.0	SPARE				1	20	
31	20	1					SPARE	0.0	0.0					SPACE						
33	20	1					SPARE			0.0	0.0			SPACE						;
35	20	1					SPARE					0.0	0.0	SPACE						(
37							SPACE	0.0	0.0					SPACE						1
39							SPACE			0.0	0.0			SPACE						4
41							SPACE						0.0	SPACE						4
TOTAL	.S:						CONNECTED kVA PER PHASE		5		6		6	CONNEC				18		
							CONNECTED AMPS PER PHASE	- 4	12		54		55	AVERAGE CONNECTED AN	1PS PE	ER PH	ASE =	49		



AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

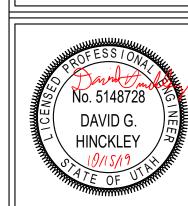
VOICE/ DATA CONDUIT RISER DIAGRAM

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

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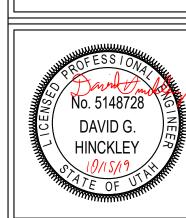
APPROVAL. CONTRACTORS ARE TO BE FAMILIAR WITH ALL PORTIONS OF THE WORK. IT IS TO BE NOTED THAT SUBCONTRACTORS WORK IS NOT LIMITED TO SPECIFIC SHEETS AND THAT ALL OF THE DRAWINGS MAY BE PART OF THEIR SCOPE OF WORK AND/OR COORDINATION.

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REV.	DATE
PROJEC	CT # 19
DATE:	10/09/
TITLE:	
PAN	EL & EQUIPMEN
	SCHEDULES

4421



REV.	DATE				
PROJEC	CT # 191				
DATE:	10/09/19				
TITLE:					
LIC	SHTING FIXTURE				
SCHEDULE					

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WIRE HANGER AT EACH CORNER OF FIXTURE (TYP)—INDEPENDENT OF CEILING SUPPORT SYSTEM. FIXTURE CLAMP - PROVIDE ONE PER SIDE OF FIXTURE. LAY-IN CEILING GRID SYSTEM RECESSED TROFFER 2 RECESSED FIXTURE MOUNTING DETAIL
SCALE: 1/8" = 1'-0"

	LIGHTING FIXTU	RE SO	CHEC	ULE				
	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR							
SYMBOL MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER NOTES		
E9	EXIT SIGN: EDGE LIT; UNIVERSAL MOUNTING; UNIVERSAL ARROWS PER PLANS; EMERGENCY BATTERY PACK							
	WITH 10 YEAR PRO-RATA WARRANTY; ILLUMINATION STANDARDS.	LED, DIFFUSE	LENS PANE	L; GREEN LE	TTERS ON WHITE BAC	CKGROUND. MUST MEET NFPA		
E9-1	SINGLE FACE:	LED	1W	120/277V	COMPASS	CELR1GNE		
					ISOLITE	ELT EM G 1C WH RC UC		
					EVENLITE	SOV-EM-G-1C-WH-RC-UC		
DX	LED DOWNLIGHT							
DX-1	6" LED DOWNLIGHT	LED	18W	120/277V	LITHONIA	LDN6-35-15-L06-AR-LSS-MVOLT-GZ10-WET		
	WET LOCATION				LIGHTOLIER	6RN/Z6RDL15835WOSCDZ10U		
					HALO	HC6-15-D010-XX-HM6-12-835-61-MD-H		
					PRESCOLITE	LF6SL-DIM1-6LFSL-20L-35K-8-FL35-SS		
G	INDIRECT TROFFERS: RECESSED FOR LAY-IN GRID; HINGED FLUSH STEEL DOOR WITH LATCH; EARTHQUAKE CLIPS, PROGRAM START ELECTRONIC BALLASTS; LONG COMPACT FLUORESCENT LAMPS; ONE BALLAST PER FIXTURE, 100-10% DIMMING BALLAST WHERE SHOWN.							
G-1	LED CENTER BASKET	LED	40W	277/120V	COLUMBIA	LCAT-22-35-ML-G-UNV-0-10V DIM		
	4000 LUMENS	835			LITHONIA	2BLT2-33L-ADSM-MVOLT-EZ1-LP835		
					DAYBRITE	2EVG-30L-835-2-D-UNV-DIM		
					METALUX	22CZ-LD5-32SE-S-UNV-L835-CD1		
TX	SPECIALTY FIXTURE							
TX-1	SURFACE FLAT PANEL	LED	40W	277/120V	COLUMBIA	CFP14-4035/CFPSMK-14		
		835			LITHONIA	EPANL 1x4 4000LM 80CRI 35K MIN10 ZT MVOLT /1x4SMKSH		
					DAYBRITE	1FXP38B835-4-DS-UNV-DIM /FSF14		
					METALUX	14FP4235C/FPSURF14		
TX-2	WALL VANITY LIGHT	LED	20W	120V	AYRE	AXIS36		
		835			MODERN FORMS	WS-3436		
						NAC 77000 OF AL		

WAC

WS-77636-35-AL