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E:\01 hoffman architects\projects\2018\3823 West 9000 South\3823 West 9000 South.dwg (18/09/2018) (18/09/2018)

Insurance Office Tenant Improvement

3823 West 9000 South
West Jordan, Utah 84088

2018-60

OWNER	ARCHITECT
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MECHANICAL	ELECTRICAL
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PERMIT REVIEW
29 NOVEMBER 2018

DRAWING CONVENTIONS

GENERAL	COVER SHEET
G001	LIFE SAFETY PLAN
ARCHITECTURAL	
A101	FLOOR PLANS
A601	DETAILS
A602	DETAILS
A701	DOORS AND WINDOWS
A901	CEILING PLAN
MECHANICAL	
MH001	MECHANICAL LEGEND & NOTES
MH101	MECHANICAL FLOOR PLANS
MH501	MECHANICAL DETAILS
PLUMBING	
PP101	PLUMBING FLOOR PLAN
PP501	PLUMBING DETAILS
ELECTRICAL	
E001	GENERAL SHEET
E101	MAIN LEVEL LIGHTING PLAN
E201	MAIN LEVEL POWER PLAN
E301	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES

DEFERRED SUBMITTALS
2015 IBC SECTION 107.3.4.1 DEFERRED SUBMITTALS: IN ADDITIONAL TO THE ITEMS LISTED ON THE STRUCTURAL DRAWINGS, ITEMS TO BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO THE WORK COMMENCING SHALL INCLUDE:

1. FIRE SPRINKLER DESIGN DRAWINGS
- 2.
- 3.

DRAWING CONVENTIONS

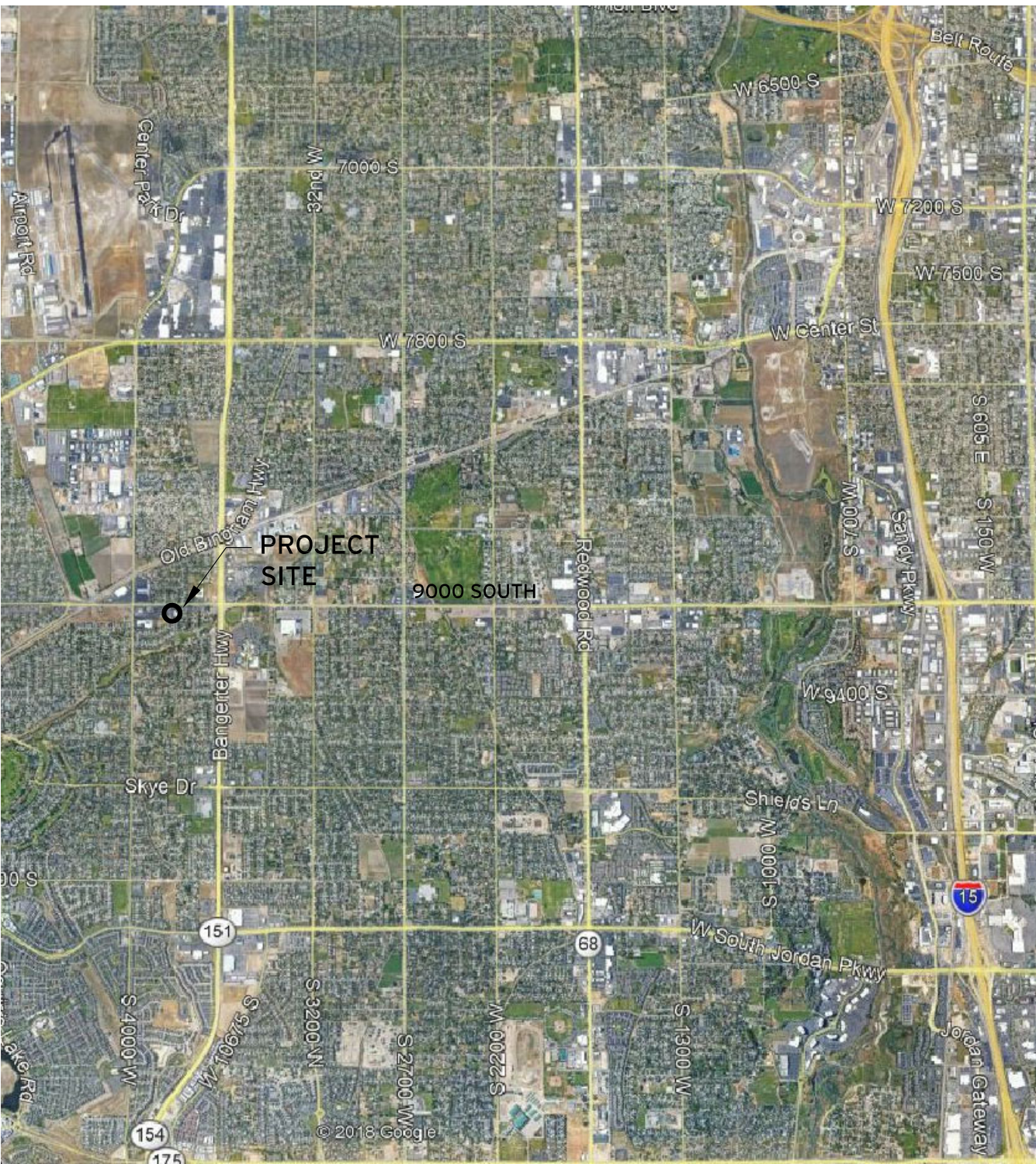
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<p>DETAIL MARKER</p> <p>DETAIL MARKER</p> <p>DETAIL MARKER</p> <p>DETAIL MARKER</p> <p>DETAIL MARKER</p>	<p>WINDOW SYMBOL</p> <p>WINDOW SYMBOL</p> <p>WINDOW SYMBOL</p> <p>WINDOW SYMBOL</p> <p>WINDOW SYMBOL</p>
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<p>ANNOTATION MARKERS</p> <p>ANNOTATION MARKERS</p> <p>ANNOTATION MARKERS</p> <p>ANNOTATION MARKERS</p> <p>ANNOTATION MARKERS</p>	<p>PROJECT NORTH</p> <p>PROJECT NORTH</p> <p>PROJECT NORTH</p> <p>PROJECT NORTH</p> <p>PROJECT NORTH</p>

ABBREVIATIONS

ALUM.	ALUMINUM	INT.	INTERIOR
APPROX.	APPROXIMATE	INSUL.	INSULATION
B.U.	BUILT-UP	MAX.	MAXIMUM
B.W.	BOTH WAYS	MECH.	MECHANICAL
BLDG.	BUILDING	MIN.	MINIMUM
BLK.	BLOCK	(N)	NEW
C.J.	CONTROL JOINT	N.I.C.	NOT IN CONTRACT
C.M.U.	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE
CLG.	CEILING	O.C.	ON CENTER
COL.	COLUMN	O.D.	OUTSIDE DIAMETER
CONC.	CONCRETE	PLYWD.	PLYWOOD
CONST.	CONSTRUCTION	PNTD.	PAINTED
CONT.	CONTINUOUS	R.D.	ROOF DRAIN
D.F.	DRINKING FOUNTAIN	REG.	REGULAR
DIA.	DIAMETER	R.S.	ROUGH-SAWN
DIM.	DIMENSION	REQ'D.	REQUIRED
DN.	DOWN	REV.	REVISED
DWG.	DRAWING	RM.	ROOM
DTL.	DETAIL	R.O.	ROUGH OPENING
E.A.	EACH	S.C.	SOLID CORE
E.F.	EXHAUST FAN	SCHED.	SCHEDULE
E.I.F.S.	EXT. INSUL. FINISH SYSTEM	SIM.	SIMILAR
E.J.	EXPANSION JOINT	SPEC.	SPECIFICATION
ELEC.	ELECTRIC/ELECTRICAL	STD.	STANDARD
ELEV.	ELEVATION	STL.	STEEL
EQ.	EQUAL	STRUCT.	STRUCTURAL
EXIST. (E)	EXISTING	SYS.	SYSTEM
EXT.	EXTERIOR	T & B	TOP AND BOTTOM
F.D.	FLOOR DRAIN	TONGUE AND GROOVE	TONGUE AND GROOVE
FDN.	FOUNDATION	TOP OF	TOP OF
FIN.	FINISH	TOP OF FOOTING	TOP OF FOOTING
FLR.	FLOOR	TOP OF WALL	TOP OF WALL
F.R.	FIRE RATED	TYP.	TYPICAL
FTG.	FOOTING	T.S.	TUBULAR STEEL COLUMN
G	GAS	UNLESS NOTED OTHERWISE	UNLESS NOTED OTHERWISE
G.I.	GALVANIZED IRON	VERT.	VERTICAL
GA.	GAUGE	VENT THRU ROOF	VENT THRU ROOF
GALV.	GALVANIZED	V.T.R.	VINYL COMPOSITE TILE
G.W.B.	GYP-SUM WALL BOARD	VCT	WOOD
G.L.B.	GLU-LAM BEAM	W.	WITH
H.B.	HOSE BIBB	WD.	WOOD
HD.	HEAD	W.P.	WATERPROOF
H.M.	HOLLOW METAL	W.R.	WATER RESISTANT
HOR.	HORIZONTAL	W.W.F.	WELDED WIRE FABRIC
		W.W.M.	WOVEN WIRE MESH

NOTE:
CONTRACTOR SHALL ABIDE BY THE UTAH DIVISION OF AIR QUALITY REQUIREMENTS AND SHALL CONTRACT THE UTAH DIVISION OF AIR QUALITY AT (801) 536-4400.

VICINITY MAP



WEST JORDAN, UTAH

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STATE OF UTAH
HANS RICHARD HOFFMAN
5104265-0320
LICENSED ARCHITECT

29 NOVEMBER 2018
PERMIT REVIEW

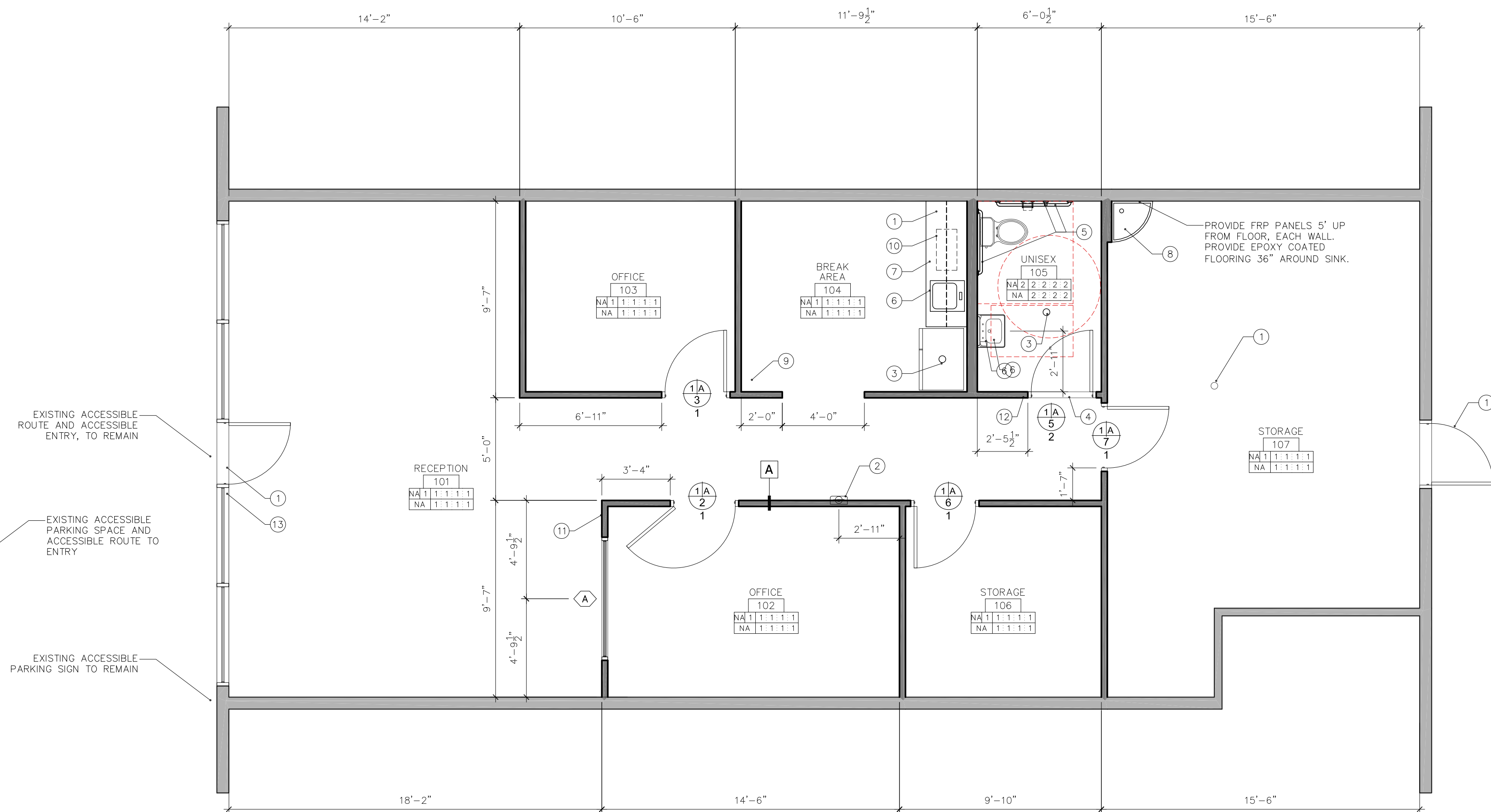
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Tenant Improvement
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West Jordan, Utah 84088

DESIGNED: H H DRAWN: GRT REVIEWED: H H 2018-60

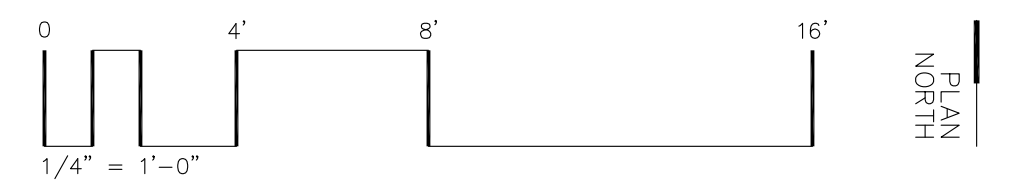
COVER G001



A1 EXISTING FLOOR PLAN



A1 NEW FLOOR PLAN



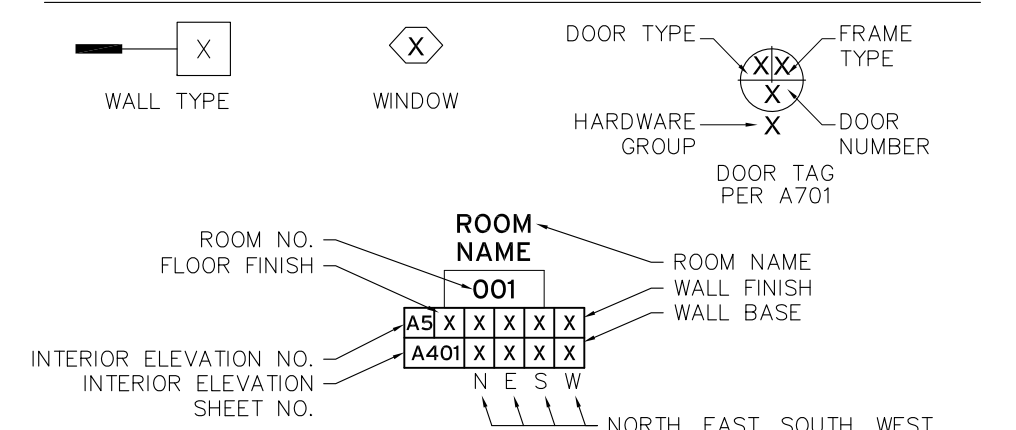
PLAN REFERENCE NOTES

- 1 EXISTING TO REMAIN.
- 2 SEMI-RECESSED FIRE EXTINGUISHER, PER A3/A601.
- 3 FLOOR DRAIN, PER PLUMBING DRAWINGS.
- 4 THRESHOLD PER A4/A701.
- 5 GRAB BAR, PER A2/A602.
- 6 PLUMBING FIXTURE, PER PLUMBING DRAWINGS.
- 7 COUNTERTOP @ 34" A.F.F. & CASEWORK, PER A602.
- 8 SERVICE SINK, PER PLUMBING.
- 9 WATER COOLER LOCATION, BY OWNER.
- 10 WATER HEATER IN CASEWORK, MECHANICAL.
- 11 PROVIDE OCCUPANCY LIMIT SIGN, PER G101 OCCUPANT LOAD,
SEE A1/A601.
- 12 PROVIDE ROOM SIGN PER A1/A601.
- 13 PROVIDE SIGN "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS
HOURS".

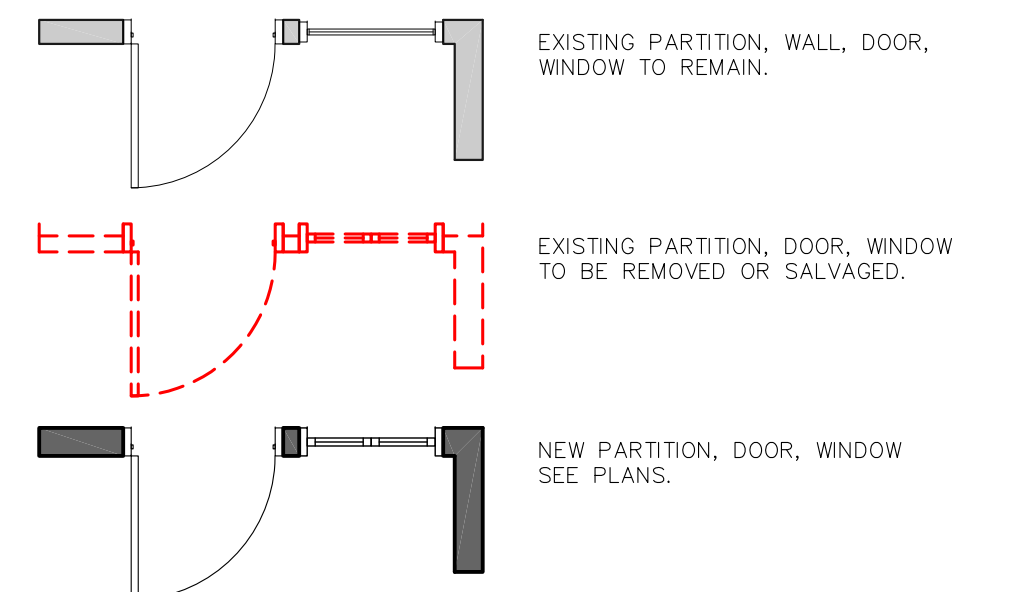
PLAN GENERAL NOTES

- A. DIMENSIONS SHALL BE TO EDGE OF CONCRETE, EDGE OF MASONRY, CENTER OF COLUMNS, FACE OF STUD (F.O.S.), CENTER OF DOORS AND WINDOWS IN STUD WALLS AND EDGE OF MASONRY OPENINGS IN MASONRY WALLS, UNLESS NOTED OTHERWISE. PROVIDE "4" FROM F.O.S. TO DOOR ROUGH OPENING, TYPICAL U.O.
- B. FOR DOORS & FRAME SEE SHG 4701. REFER TO SPECIFICATIONS FOR HARDWARE SCHEDULE ALL HARDWARE TO MEET ACCEPTABILITY STANDARDS OF ANSI A117.1-2015.
- C. PENETRATIONS AT ROOF SHALL BE COORDINATED WITH MECHANICAL CONTRACTOR FOR SIZE AND LOCATION.
- D. WHERE "CLEAR" IS CALLED OUT ON A DIMENSION, PROVIDE DIMENSION NOTED FROM FACE OF FINISH SURFACE OF FINISH.
- E. DOOR THRESHOLDS MUST HAVE A MAXIMUM HEIGHT OF 1/2" WITH A 1:2 BEVEL. PER SHEET A701. REFER TO INTERIOR DETAILS FOR TYPICAL FLOOR TRANSITIONS.
- F. ALL WALL & CEILING FINISHES TO BE CLASS C.
- G. FIELD VERIFY ALL EXISTING CONDITIONS, AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCING WITH THE WORK.
- H. ALL MECHANICAL, PLUMBING AND ELECTRICAL ITEMS TO BE VERIFIED BEFORE CONSTRUCTION.
- I. REFER TO THE SHEET A601 FOR WALL TYPES & DETAILS, SHEET A701 DOOR AND WINDOW SCHEDULE.
- J. ALL SURFACES SHALL BE PAINTED, U.O.
- K. PROVIDE SLD BLOCKING AT ALL WALL ACCESSORIES, CASEWORK AND SHELVEING.
- L. FIRE BLOCKING AT ALL PLUMBING PENETRATIONS.
- M. PROVIDE SOUND BATTS / INSULATION IN ALL INTERIOR WALLS PER WALL TYPES. GWB SHALL HAVE SQUARE GWB CORNERS. (METAL CORNER BEAD), TYP. ALL DRYWALL SURFACES TO BE ORANGE PEEL FINISH, TYP. PROVIDE SAMPLES TO OWNER FOR REVIEW AND APPROVAL.
- N. EXISTING SPACE. FIELD VERIFY ALL EXISTING ELEMENTS AND NOTIFY THE ARCHITECT OF ALL DISCREPANCIES.
- P. WALL TYPES PER A4/A601.

SYMBOL LEGEND



WALL FINISH	FLOOR FINISH	WALL BASE
1. PAINTED GYP. BD.	1. CARPET TILES, NO PAD	1. 4" RESILIENT
2. FRP UP 5'. ADD ALT FOR TILE	2. EPOXY COATING	2. FRP
3.	3.	
4.	4.	



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29 NOVEMBER 2018
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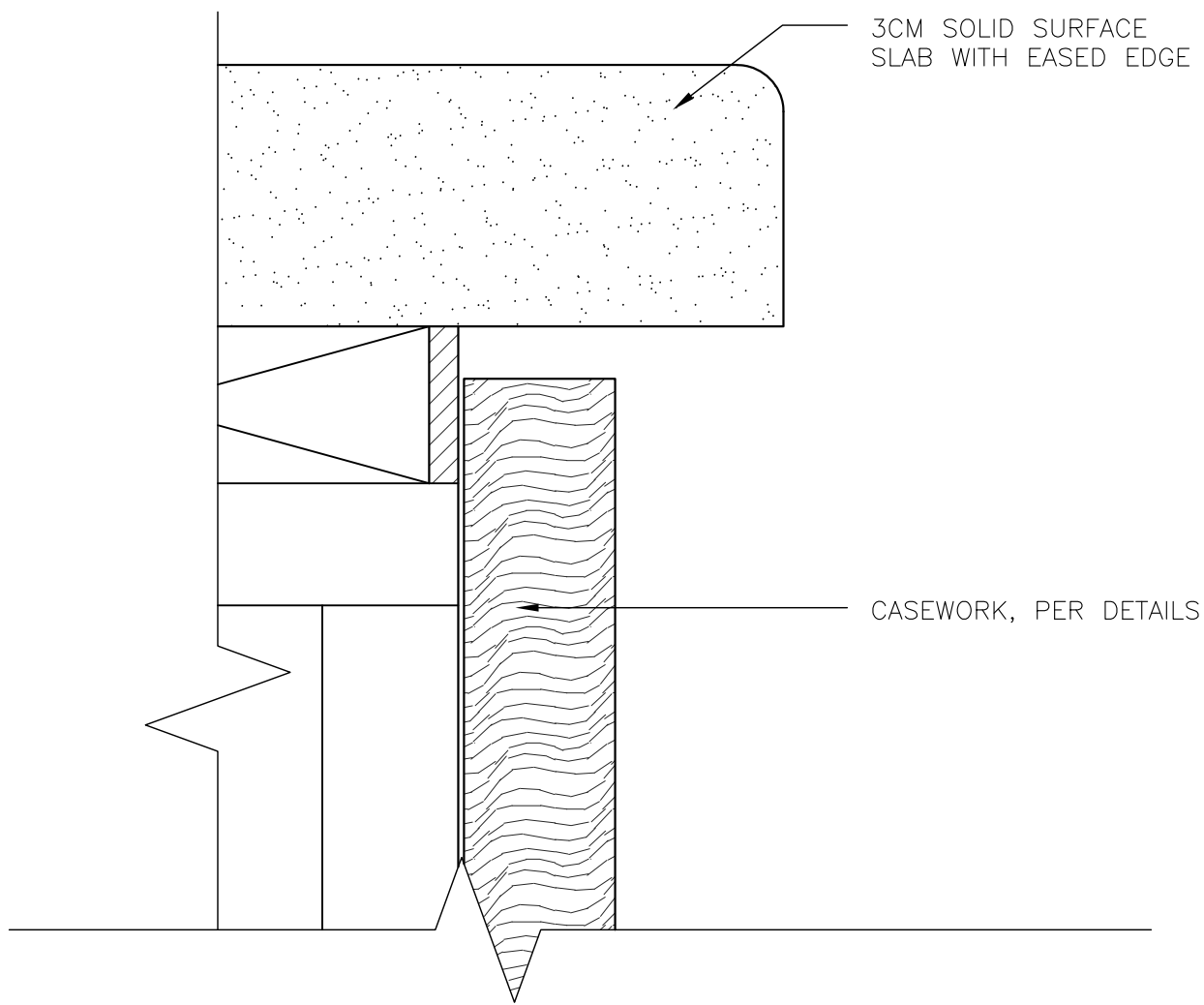
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FLOOR PLANS A101

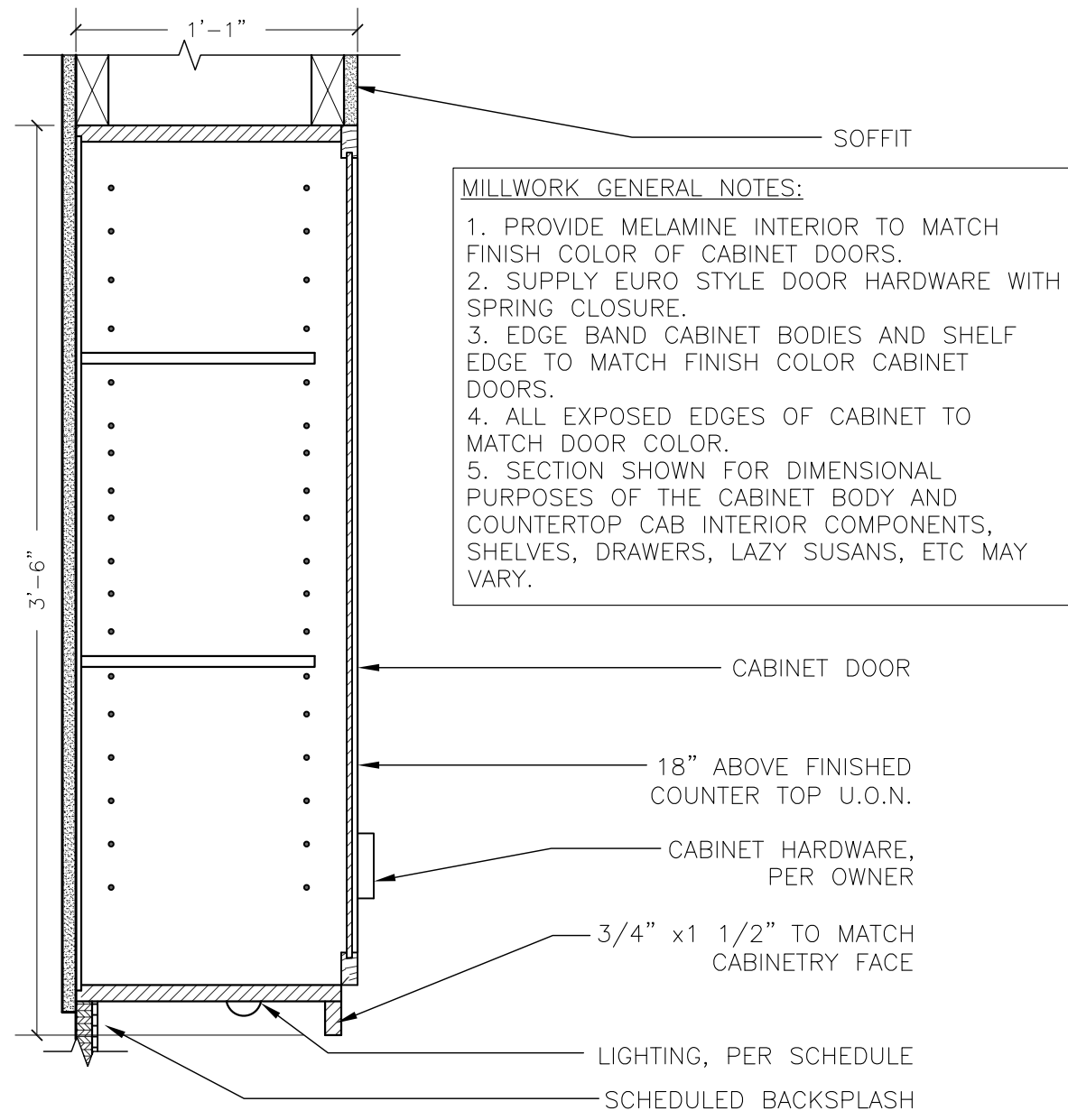
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2018-06-03

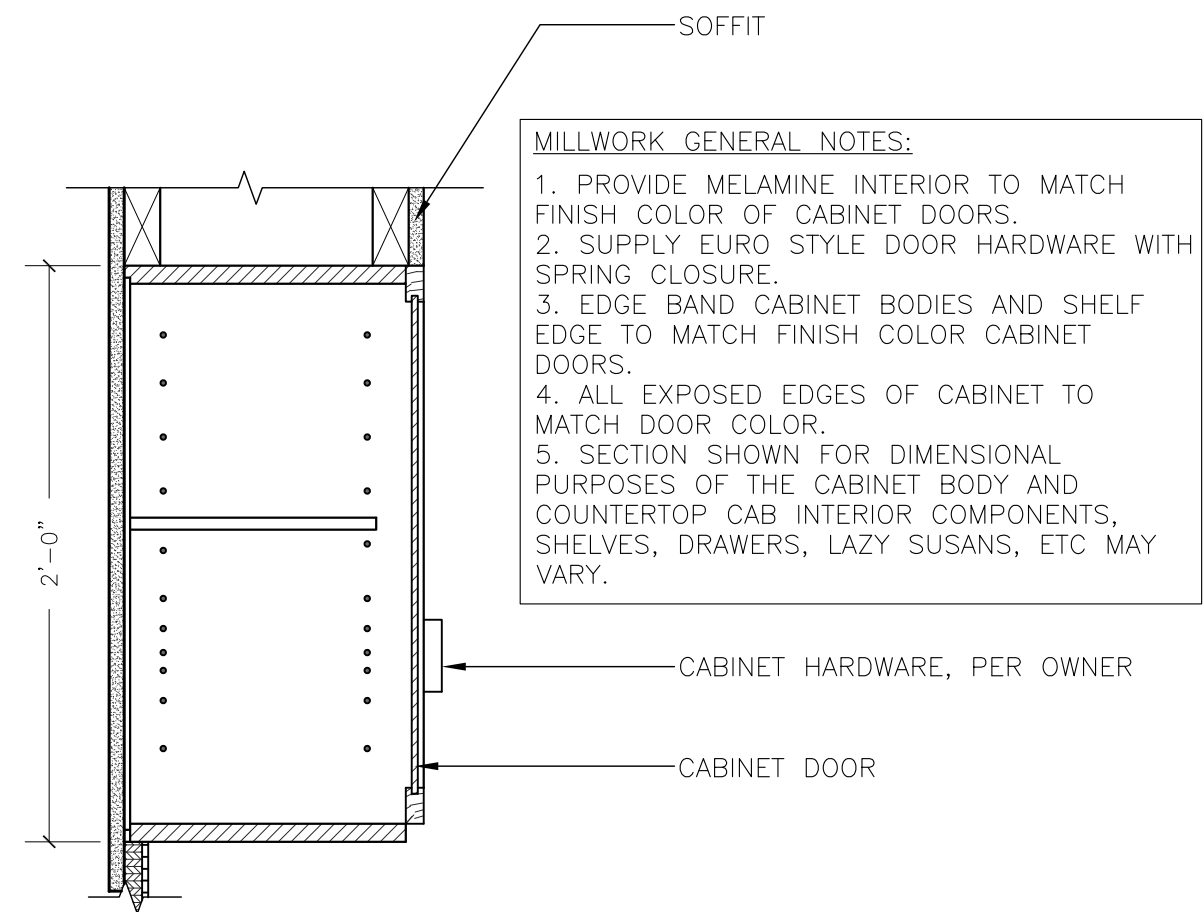
hans richard hoffman
5104266-0300
2018-06-03



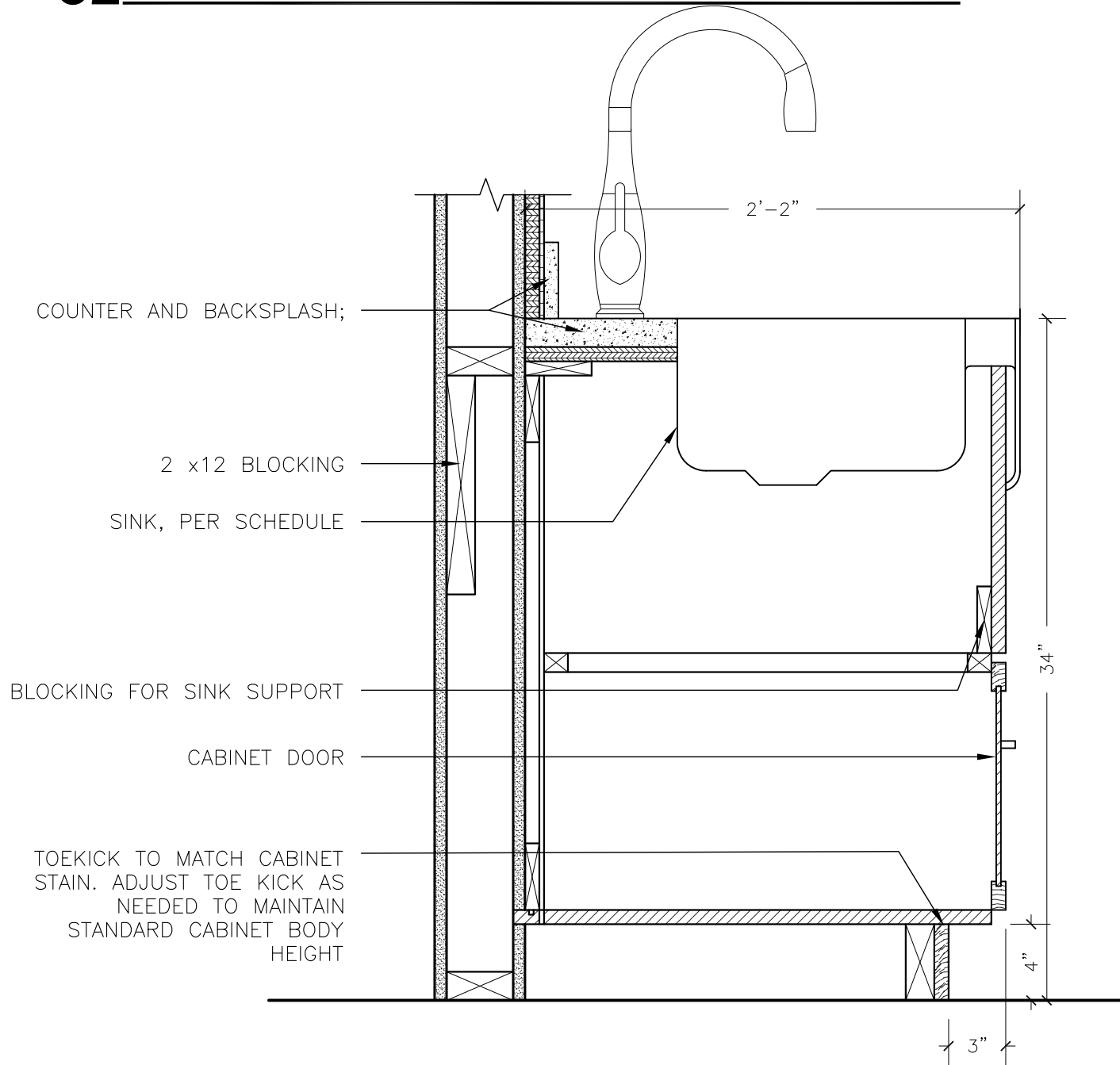
C2 SOLID SURFACE EDGE DETAIL
1/2" = 1'-0"



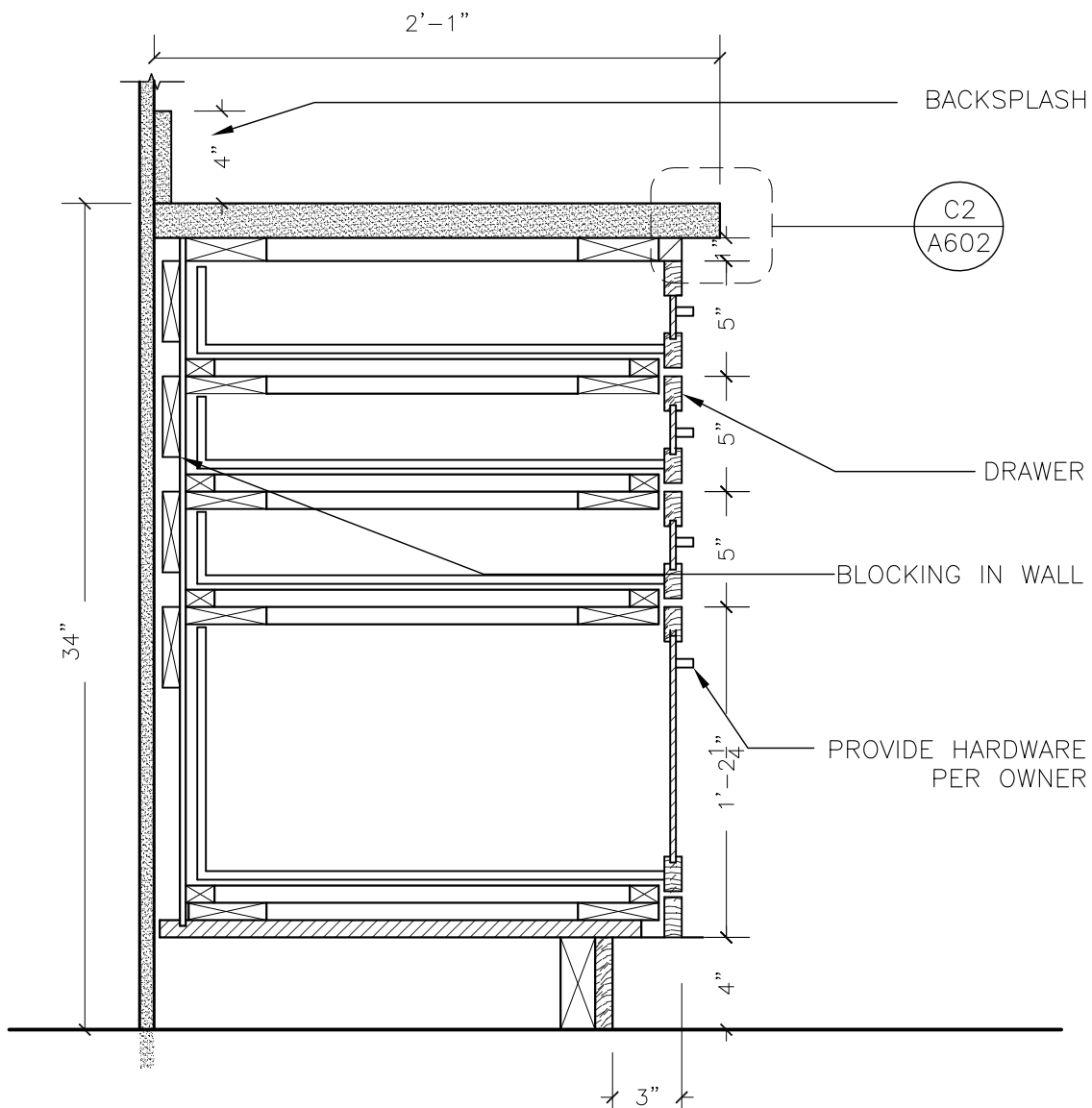
C3 FULL UPPER CABINET
1/2" = 1'-0"



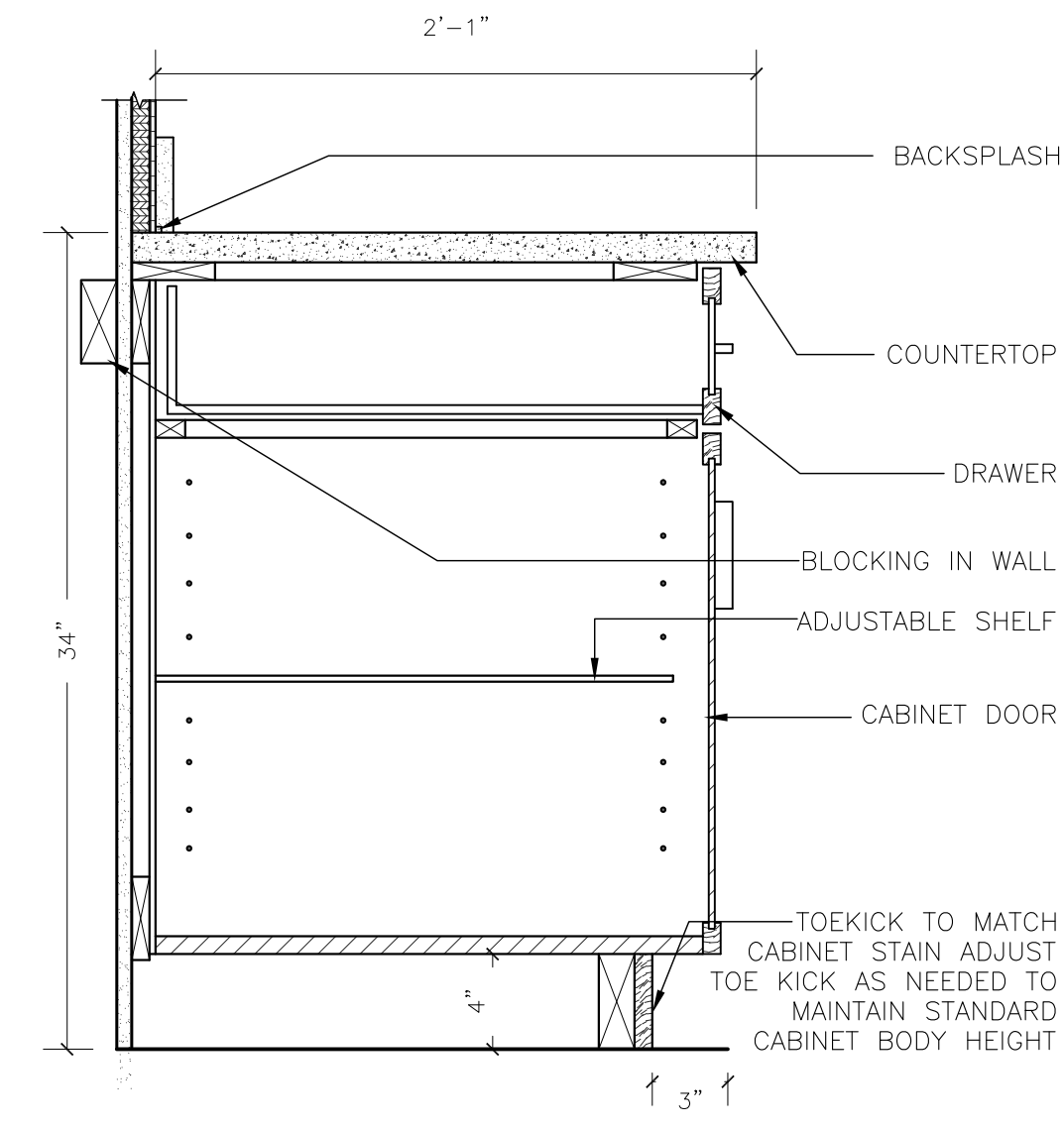
C4 PARTIAL UPPER CABINET
1/2" = 1'-0"



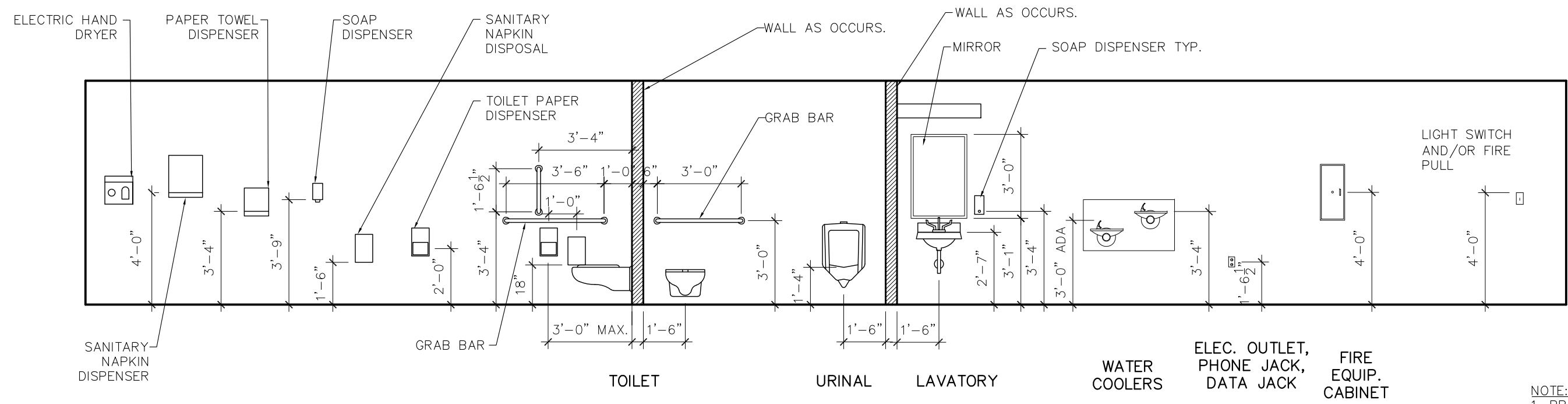
B2 SECTION AT SINK
1/2" = 1'-0"



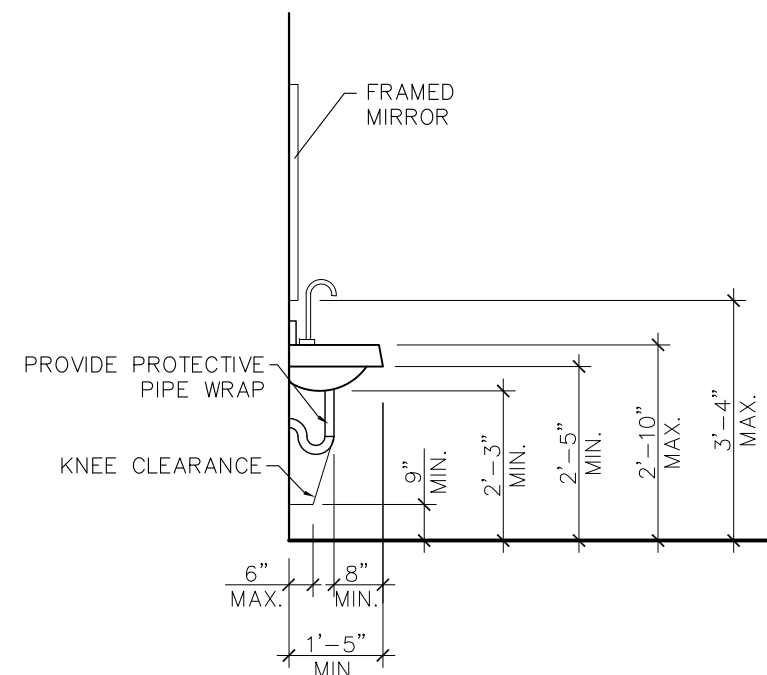
B3 TYPICAL BREAK ROOM DRAWERS
1/2" = 1'-0"



B4 LOWER CABINET SECTION
1/2" = 1'-0"



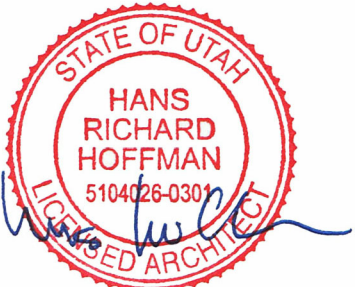
A2 TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



NOTE:
1. PROVIDE BACKING PLATES AND SUPPORT FOR ALL WALL MOUNTED ACCESSORIES.
2. FOLLOW MOUNTING HEIGHTS INDICATED IN THIS DETAIL UNLESS NOTED OTHERWISE.



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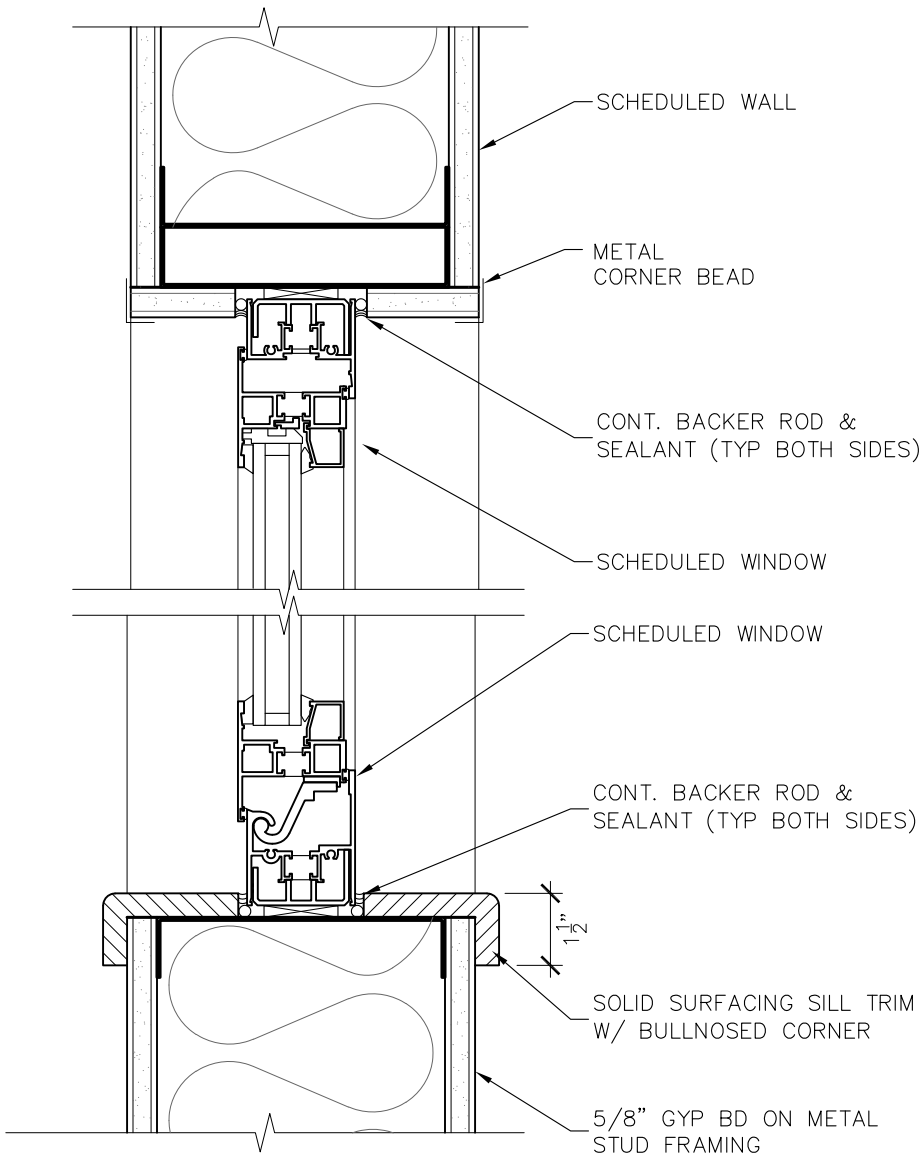
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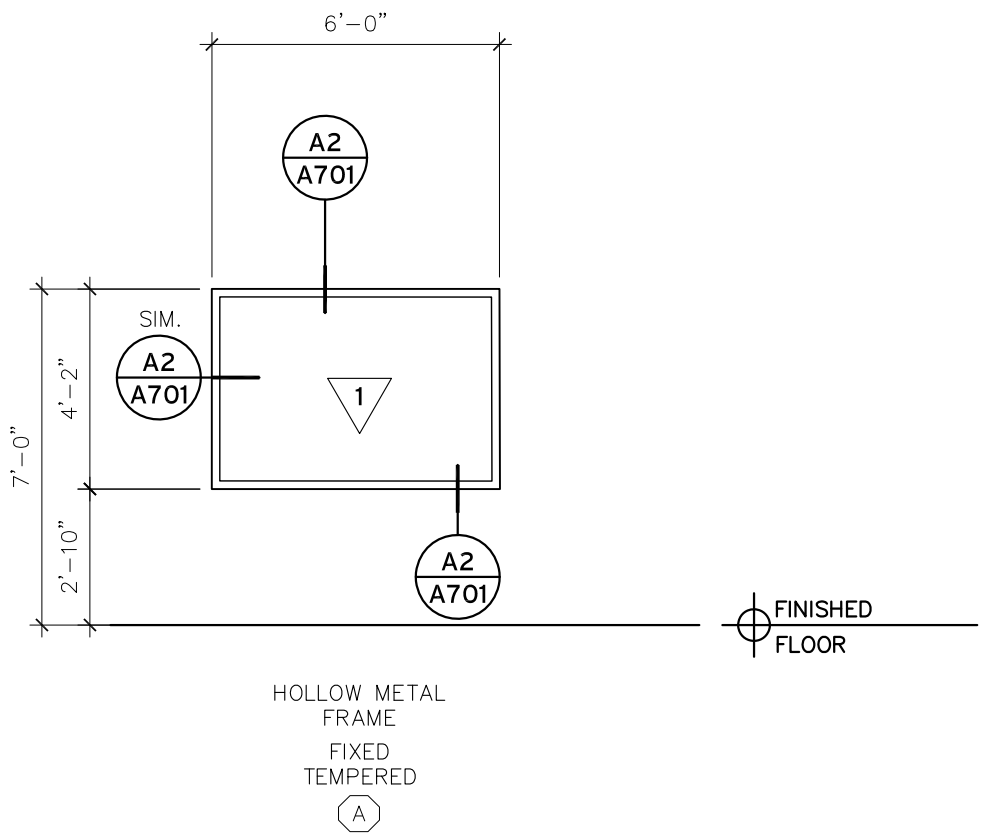
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DETAILS
CABINETRY

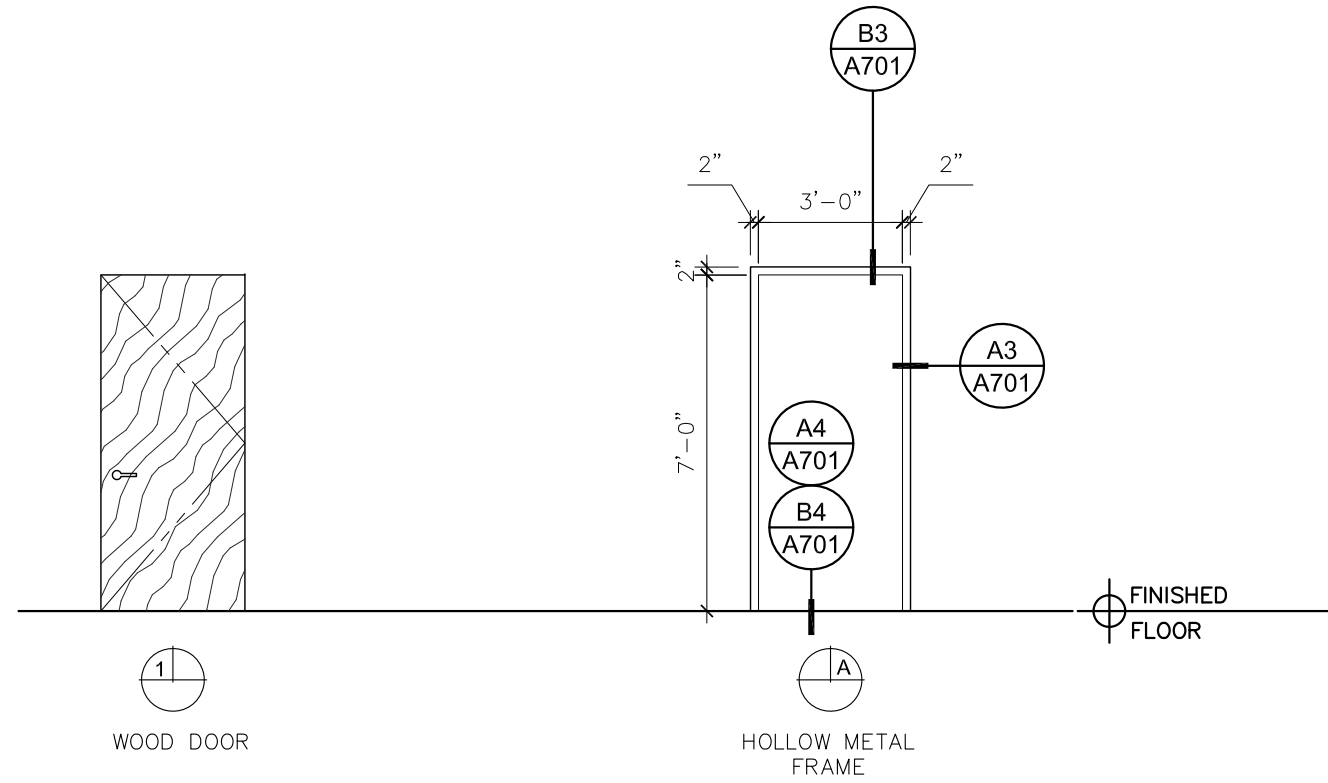
A602



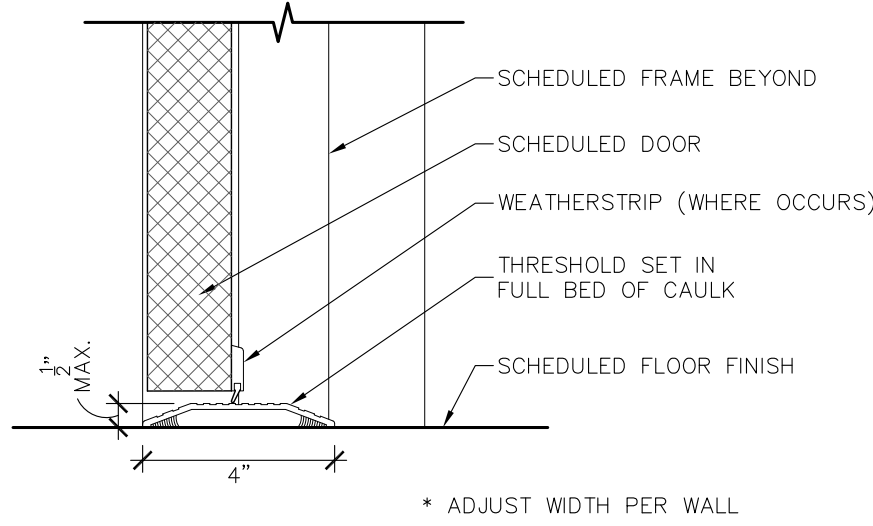
A2 HEAD & SILL - INTERIOR
3\"/>



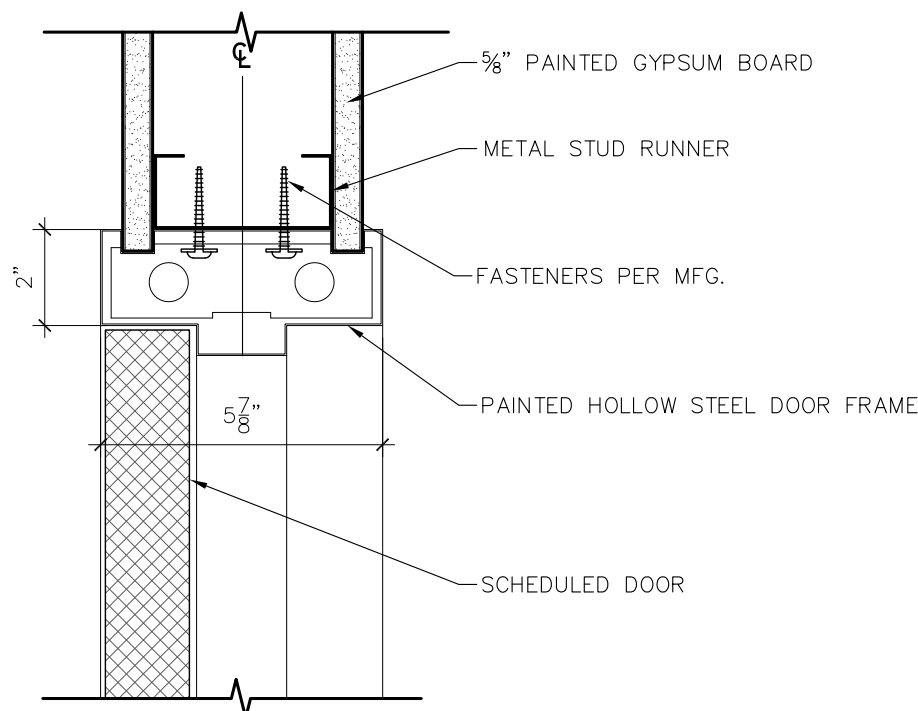
D3 DOORS & FRAMES SCHEDULE
1/4\"/>



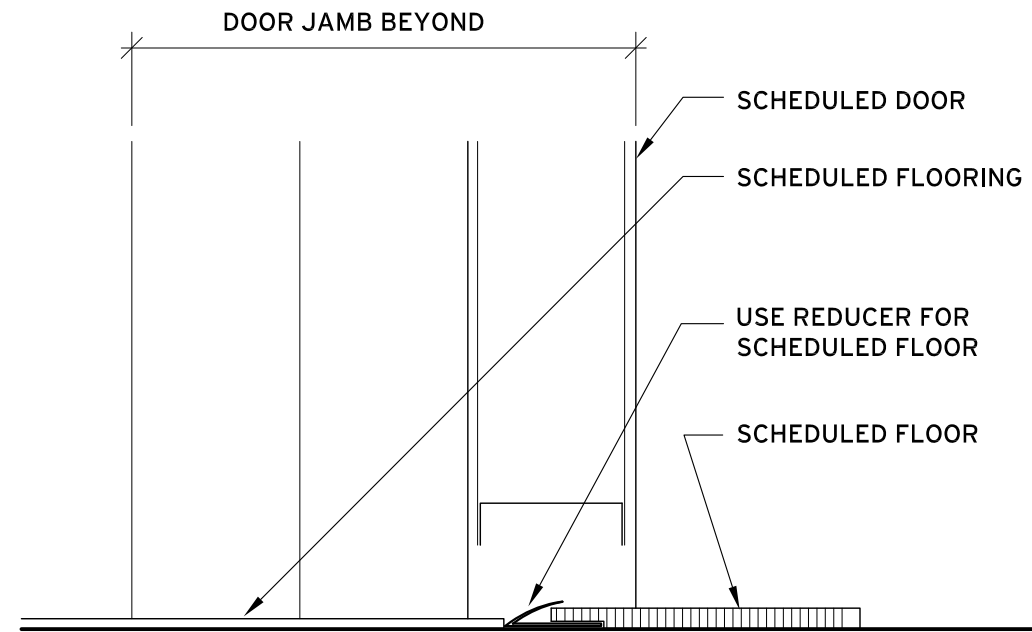
D3 DOORS & FRAMES SCHEDULE
1/4\"/>



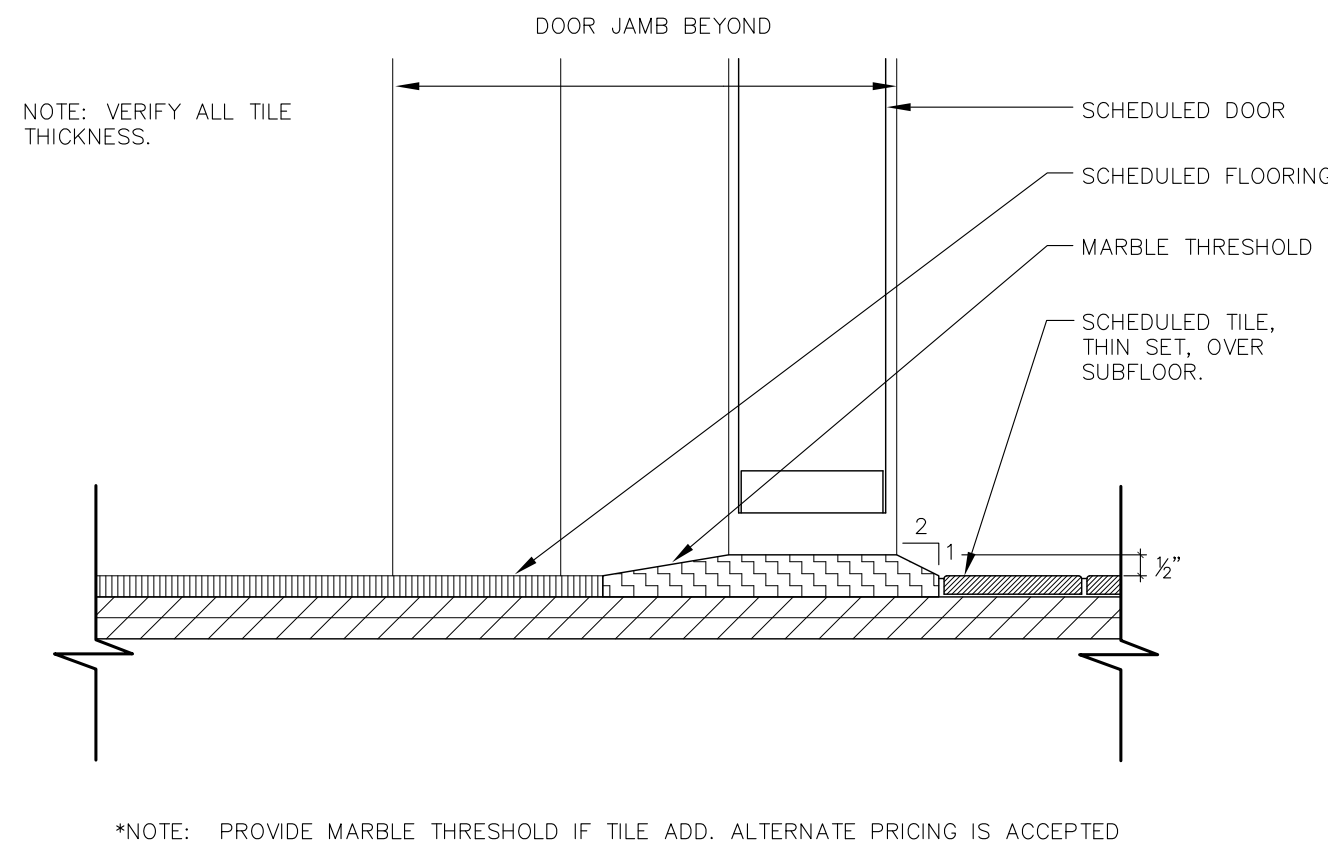
C4 DOOR THRESHOLD
3\"/>



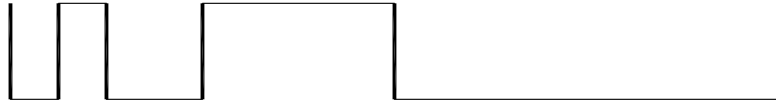
B3 HOLLOW METAL DOOR HEAD
3\"/>



B4 FLOORING REDUCER
3\"/>



A4 THRESHOLD DETAIL
3\"/>



- GENERAL NOTES
- ALL EXIT DOORS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY, SPECIAL KNOWLEDGE OR EFFORT.
 - ALL DOORS SHALL HAVE DOOR HARDWARE THAT DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE AND THAT THE HARDWARE IS TO BE PLACED AT A MAXIMUM OF 48\"/>

CLASS TYPES

1 CLEAR TEMPERED FLOAT 1/2\"/>

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29 NOV 2018

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DOORS & WINDOWS
DETAILS

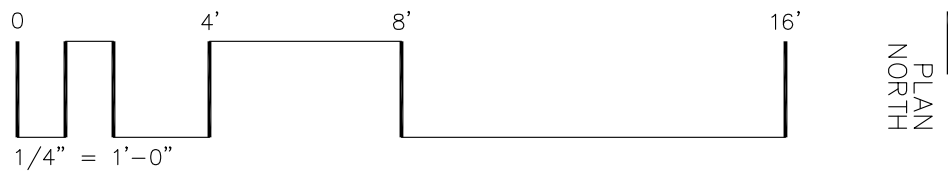
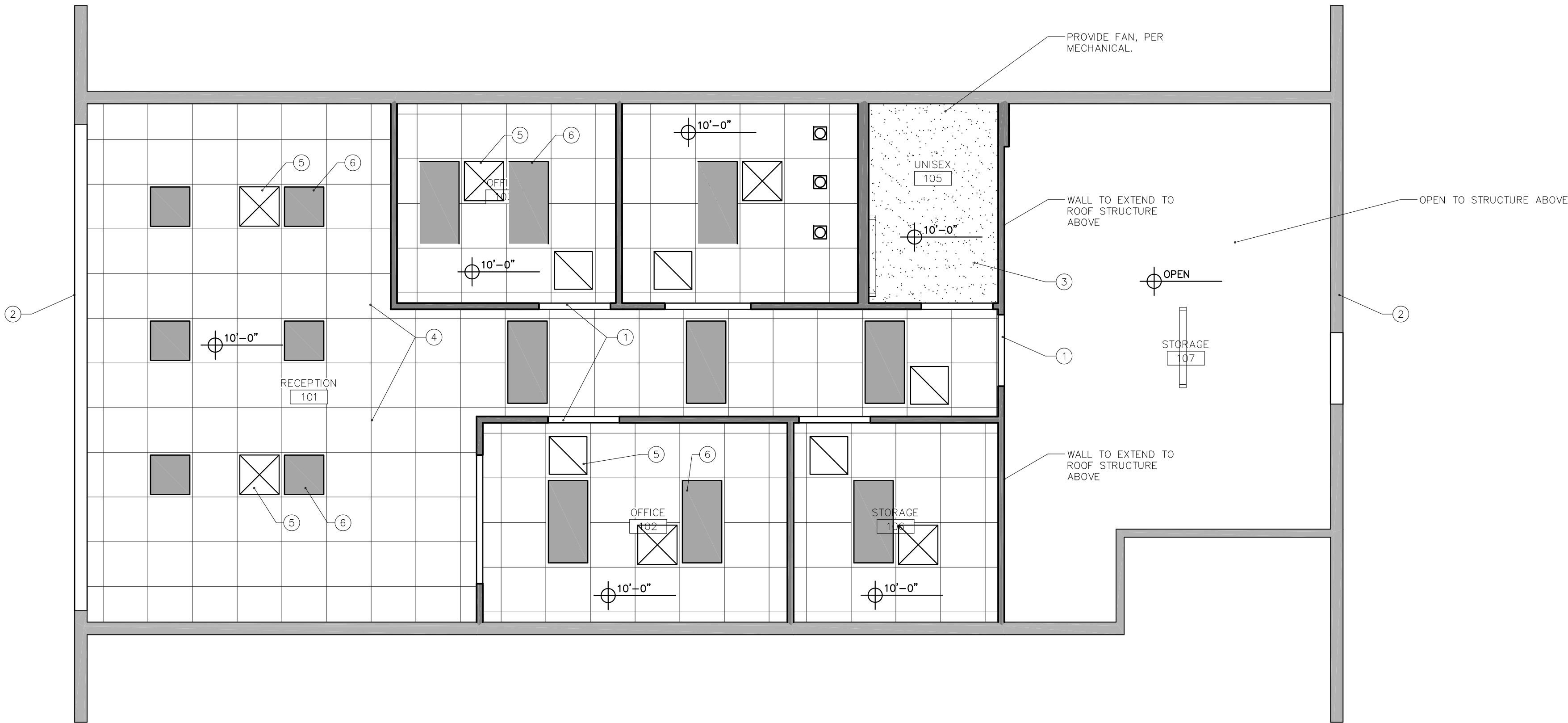
A701

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A1NEW CEILING PLAN

1/4" = 1'-0"



- PLAN GENERAL NOTES
- LIGHTING PLAN AND SYSTEMS PER ELECTRICAL SHEETS.
 - REFER TO MECHANICAL SHEETS FOR HVAC ITEMS.
 - CEILING ELEVATIONS NOTED ARE ABOVE FINISHED FLOOR.
 - ALL SURFACES TO BE PAINTED, U.O.N.
 - WALLS TO EXTEND TO STRUCTURE ABOVE, OR BE BRACED PER C4/A601.
 - TO ACCESS THE CEILING SPACE OF A ROOM WITH GYPSUM BOARD CEILING, PROVIDE A 2'-6" X 2'-6" OPENING IN THE WALL ALONG THE PERIMETER OF THIS ROOM. COORDINATE LOCATION OF OPENING WITH THE DUCTS, CONDUITS, PLUMBING LINES, ETC. TO AVOID CONFLICT. THE OPENING SHALL BE ACCESSIBLE FROM THE ADJACENT ROOM WITH LAY-IN CEILING.
 - PAINT ALL THE EXPOSED ITEMS LIKE METAL DECK, STEEL ANGLE, STEEL BEAM, STEEL TRUSSES, MISCELLANEOUS EXPOSED STEEL STRUCTURAL COMPONENTS, HOLLOW METAL DOORS, DOOR FRAMES & WINDOW FRAMES. PAINT EXPOSED SURFACES (WITH COLORS AND ACCENT COLORS AS SELECTED BY ARCHITECT) EXCEPT WHERE NATURAL FINISH OR MATERIAL IS SPECIFICALLY NOTED AS A SURFACE NOT TO BE PAINTED. DO NOT PAINT CONCEALED SURFACES, FINISHED METAL SURFACES, OPERATING PARTS AND PRE FINISHED ITEMS.

- LEGEND
- PAINTED GYP. BD.
 - STANDARD GRID CEILING; PER DETAIL D1/A601; PROVIDE PERIMETER PER D2/A601.
 - CEILING ELEVATION ABOVE FINISHED FLOOR.
 - SUPPLY AIR DIFFUSER
 - RETURN AIR GRILL
 - FLUORESCENT LIGHT FIXTURE
 - WALL /SURFACE MOUNTED LIGHT FIXTURE
 - RECESSED LIGHT FIXTURE
 - SURFACE MOUNTED LIGHT FIXTURE

- REFERENCE NOTES
- HEADER, TYPICAL.
 - EXISTING, TO REMAIN. FIELD VERIFY
 - PAINTED GYP BD CEILING, PER C1/A601.
 - CEILING GRID, PER DETAILS D1/A601 AND D2/A601.
 - MECHANICAL SUPPLY / RETURN, PER MECHANICAL PLANS. SHOWN ON THIS PLAN FOR REFERENCE ONLY.
 - LIGHTS, PER LIGHTING PLAN. SHOWN ON THIS PLANS FOR REFERENCE ONLY.

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STATE OF UTAH
HANS RICHARD HOFFMAN
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2018 NOV 29

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DESIGNED: H H DRAWN: GRT REVIEWED: H H 2018-60

CEILING PLAN A901

ABBREVIATIONS			
Ø	ROUND, DIAMETER, PHASE	EWT	ENTERING WATER TEMPERATURE
ABS	ACRYLONITRILE--BUTADIENE--STYRENE, ABSOLUTE	EXH	EXHAUST
ACCU	AIR COOLED CONDENSING UNIT	EXP	EXPANSION
A/C	AIR CONDITIONING	EXT	EXTERIOR
AD	ACCESS DOOR, AREA DRAIN	F	FAHRENHEIT
ADA	AMERICAN DISABILITIES ACT	FC	FLEXIBLE CONNECTION, FORWARD CURVED
AF	AIR FOIL, AIR FILTER	FCO	FLOOR CLEAN OUT
AFF	ABOVE FINISH FLOOR	FCU	FAN COIL UNIT
AHU	AIR HANDLING UNIT	FD	FLOOR DRAIN, FIRE DAMPER
ALT	ALTITUDE, ALTERNATE	FDC	FIRE DEPARTMENT CONNECTION
AMB	AMBIENT	FF	FINISH FLOOR, FINAL FILTER
AMP	AMPERE (AMP, AMPS)	FL	FLOW LINE
AP	ACCESS PANEL	FLEX	FLEXIBLE
APD	AIR PRESSURE DROP	FO	FLAT OVAL
ARCH	ARCHITECT	FP	FIRE PROTECTION
AS	AIR SEPARATOR	FPM	FEET PER MINUTE
AV	ACID VENT, AIR VENT	FS	FLOOR SINK
B	BOILER	FSD	FIRE SMOKE DAMPER
BAL	BALANCE	FSTAT	FREEZESTAT
BAS	BUILDING AUTOMATION SYSTEM	FT	FEET
BBR	BASEBOARD RADIATOR	FTR	FIN TUBE RADIATION
BDD	BACKDRAFT DAMPER	FURN	FURNACE, FURNISH, FURNITURE
BFP	BACKFLOW PREVENTER	FV	FACE VELOCITY
BFV	BUTTERFLY VALVE	G	GAUGE, NATURAL GAS
BHP	BRAKE HORSEPOWER	GA	GAGE
BI	BACKWARD INCLINED	GAL	GALLON
BOD	BOTTOM OF DUCT	GALV	GALVANIZED
BOP	BOTTOM OF PIPE	GC	GENERAL CONTRACTOR
BT	BATH TUB	GD	GARAGE DRAIN
BTU	BRITISH THERMAL UNIT	GH	GRAVITY HOOD
BTUH	BRITISH THERMAL UNITS/HR	GPM	GALLONS PER MINUTE
BV	BALL VALVE	GT	GREASE TRAP
C	CHILLER	HB	HOSE BIBB
CA	COMPRESSED AIR, COMBUSTION AIR	H/C, HC	HEATING COIL
CAP	CAPACITY	HEPA	HIGH EFFICIENCY PARTICULATE AIR
CAV	CONSTANT AIR VOLUME	HOA	HAND, OFF, AUTO
C/C, CC	COOLING COIL	HP	HORSEPOWER, HEAT PUMP
CD	CONDENSATE DRAIN, CEILING DIFFUSER	HR	HOOR
CFM	CUBIC FEET PER MINUTE	HSTAT	HUMIDISTAT
CFOI	CONTRACTOR FURN., OWNER INSTALLED	HT	HEIGHT
CHW	CHILLER WATER	HVAC	HEATING, VENTILATING, AIR--CONDITIONING
CO	CLEAN OUT, CARBON MONOXIDE	HX	HEAT EXCHANGER
CO2	CARBON DIOXIDE	HZ	FREQUENCY
CONC	CONCRETE	IAQ	INDOOR AIR QUALITY
COND	CONDENS(ER),(ING),(ATE),(ATION)	ID	INSIDE DIAMETER
CONT	CONTINUOUS	IE	INVERT ELEVATION
COP	COEFFICIENT OF PERFORMANCE, COPPER	IN	INCH
COTG	CLEANOUT TO GRADE	IN WC	INCHES, WATER COLUMN
CPVC	CHLORINATED POLY VINYL CHLORIDE	INV	INVERT
CT	COOLING TOWER	I/O	INPUT/OUTPUT
CU	CONDENSING UNIT, CUBIC	JS	JANITORS SINK
CV	CONTROL VALVE, CONSTANT VOLUME	KEC	KITCHEN EQUIPMENT CONTRACTOR
CUH	CABINET UNIT HEATER	KW	KILOWATT
CW	CONDENSER WATER, CLOCKWISE	KWH	KILOWATT HOUR
DA	DISCHARGE AIR	LAT	LEAVING AIR TEMPERATURE
dB	DECIBELS	LAV	LAVATORY
DB	DRY BULB TEMPERATURE	LBS	POUNDS
DDC	DIRECT DIGITAL CONTROL	LF	LINEAR FEET
DF	DRINKING FOUNTAIN	LVR	LOUVER
DIA	DIAMETER	LWT	LEAVING WATER TEMPERATURE
DMPR	DAMPER	MA	MEDICAL AIR, MIXED AIR
DP	DEWPOINT, DIFFERENTIAL PRESSURE	MAT	MATERIAL, MIXED AIR TEMPERATURE
DR	DRAIN	MAU	MAKE UP AIR HANDLING UNIT
DSN	DOWNSPOUT NOZZLE	MAV	MANUAL AIR VENT
DW	DISHWASHER	MAX	MAXIMUM
DWG	DRAWING	MBH	BTU/HR X 1,000
DWV	DRAIN, WASTE, VENT	MC	MECHANICAL CONTRACTOR
DX	DIRECT EXPANSION	MCC	MOTOR CONTROL CENTER
(E) EXIST	EXISTING	MECH	MECHANICAL
EAT	ENTERING AIR TEMPERATURE	MH	MAN HOLE
EC	ELECTRICAL CONTRACTOR	MIN	MINIMUM, MINUTE
ECON	ECONOMIZER	MVD	MANUAL VOLUME DAMPER
EDH	ELECTRIC DUCT HEATER	NA	NOT APPLICABLE
EER	ENERGY EFFICIENCY RATIO	NC	NOISE CRITERIA, NORMALLY CLOSED
EF	EXHAUST FAN	NIC	NOT IN CONTRACT
EFF	EFFICIENCY	NO	NORMALLY OPEN, NITROUS OXIDE
EL, ELEV	ELEVATION	NO.	NUMBER
EMER	EMERGENCY	NOM	NOMINAL
ENCL	ENCLOSURE	NR	NOISE REDUCTION
ESP	EXTERNAL STATIC PRESSURE	NRC	NOISE REDUCTION COEFFICIENT
ET	EXPANSION TANK	NTS	NOT TO SCALE
EUH	ELECTRIC UNIT HEATER	OA	OUTSIDE AIR
EVAP	EVAPORAT(E),(ING),(ED),(OR)	OBD	OPPOSED BLADE DAMPER
EWB	ENTERING WET BULB	OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
EW	ELECTRIC WATER COOLER	OF/CI	OWNER FURN./CONTRACTOR INSTALLED
EW	ELECTRIC WATER HEATER	OF/OI	OWNER FURNISHED/OWNER INSTALLED
EWS	EYE WASH STATION	OS&Y	OPEN SCREW & YOLK

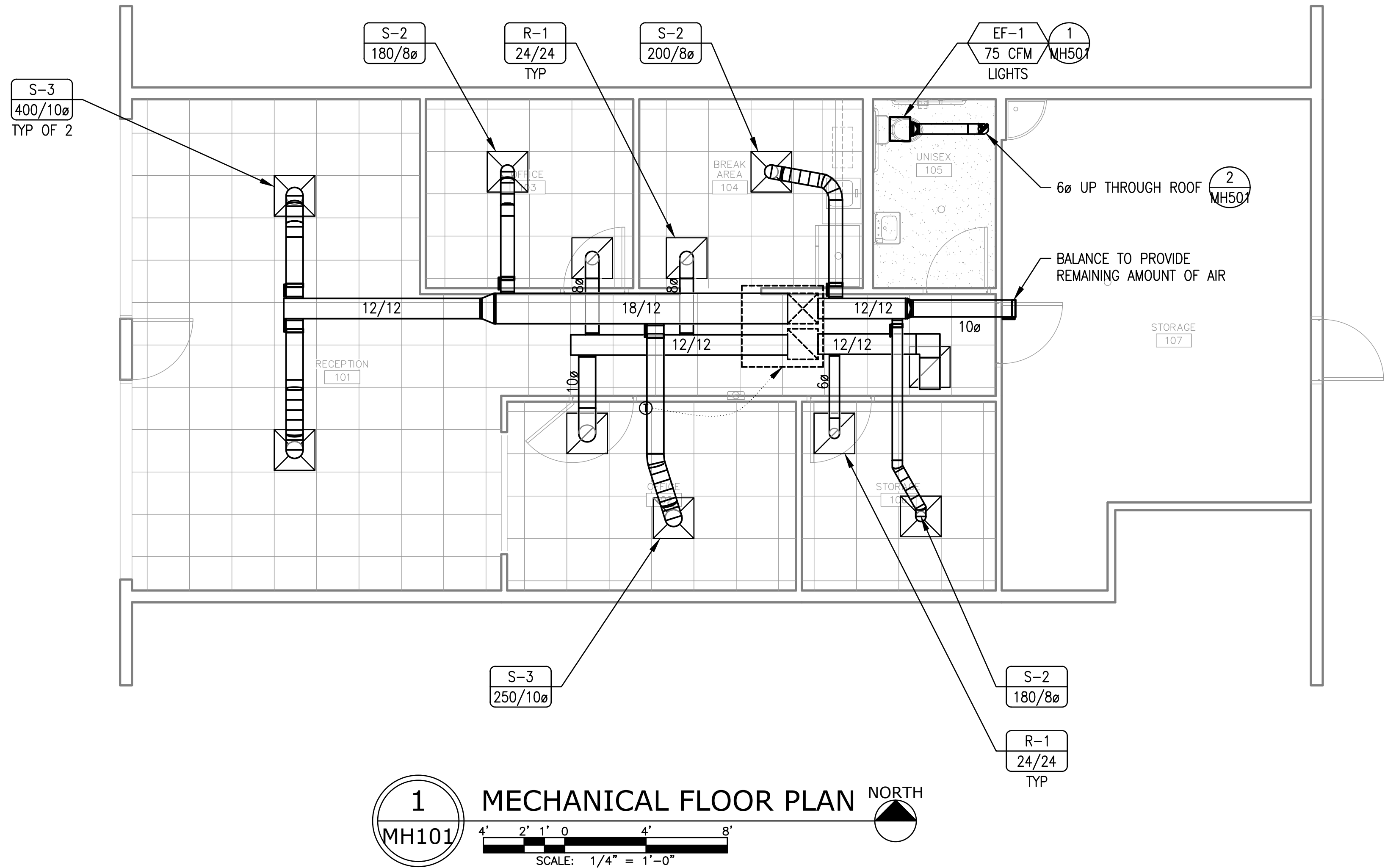
MECHANICAL LEGEND	
BALL VALVE	
BUTTERFLY VALVE	
GATE VALVE	
ANGLE GATE VALVE, PLAN VIEW	
GLOBE VALVE	
PLUG VALVE	
3-WAY VALVE	
NON-RISING STEM/OS&Y VALVE ACTUATOR	
LEVER VALVE ACTUATOR	
ELECTRONIC/PNEUMATIC VALVE ACTUATOR	
SOLENOID/DIAPHRAGM VALVE ACTUATOR	
CHECK VALVE	
SPRING CHECK VALVE	
BALL VALVE W/HOSE END & CAP	
NEEDLE VALVE	
PRESSURE REDUCING VALVE	
REDUCED PRESSURE BACKFLOW PREVENTER	
INLINE PUMP	
PRESSURE & TEMPERATURE RELIEF VALVE	
SQUARE HEAD COCK	
STRAINER, W/BV HOSE END & CAP	
TEMPERATURE & PRESSURE PLUG	
CIRCUIT SETTER	
AUTOMATIC FLOW CONTROL VALVE	
AUTOMATIC/MANUAL AIR VENT	
VENTURI FLOW MEASURING DEVICE	
THERMOMETER/PRESSURE GAGE W/COCK	
TEMPERATURE SENSOR	
CONCENTRIC/ECCENTRIC REDUCER	
UNION	
BUSHING/CAP	
ELBOW UP/DOWN	
TOP/BOTTOM CONNECTION, 45° OR 90°	
TEE UP/SIDE/DOWN	
FLOW/PITCH DOWN DIRECTION	
ANCHOR/GUIDE	
EXPANSION JOINT/FLEX CONNECTOR	
FLOOR OR GRADE CLEANOUT, W/CONC PAD	
WALL CLEANOUT, HOSE BIBB OR WALL HYDRANT	
FLOOR DRAIN/FLOOR SINK	
VENT	
COLD WATER	
HOT WATER	
HOT WATER RETURN	
SANITARY SEWER	
SANITARY SEWER BELOW GRADE	
NATURAL GAS	
DUCT SIZE, (1ST FIGURE, SIDE SHOWN; 2ND FIGURE, OTHER SIDE)	
LINED DUCT	
HIDDEN DUCT	
WYE W/45° ENTRY	
TEE W/45° ENTRY	
ELBOW W/TURNING VANES	
HELICAL FLEX DUCT	
SUPPLY DUCT SECTION UP/DOWN	
RETURN DUCT SECTION UP/DOWN	
EXHAUST DUCT SECTION UP/DOWN	
ROUND BRANCH	
DUCT TRANSITION	
FIRE SMOKE DAMPER	
FIRE DAMPER	
SMOKE DAMPER	
MOTORIZED DAMPER	
GRAVITY BACKDRAFT DAMPER	
MANUAL VOLUME DAMPER	
SIDE/PLAN ACCESS DOOR	
SUPPLY AIR DEVICE	
RETURN AIR DEVICE	
EXHAUST AIR DEVICE	
THERMOSTAT/HUMIDISTAT	
POINT OF CONNECTION/REMOVAL	
KEYED NOTE/REVISION	
WALL SWITCH	
EQUIPMENT CALLOUT	
PLUMBING FIXTURE CALLOUT	
DETAIL TAG	
AIR DEVICE CALLOUT	

PROJECT NOTES	
1.	ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH, 2015 INTERNATIONAL BUILDING CODE, 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL PLUMBING CODE, 2015 INTERNATIONAL FUEL GAS CODE, AND 2015 INTERNATIONAL ENERGY CODE, INCLUDING STATE AND LOCAL AMENDMENTS, SUBJECT TO AUTHORITY HAVING JURISDICTION INTERPRETATION.
2.	CLOSELY COORDINATE NEW MECHANICAL AND PLUMBING CONSTRUCTION WITH ALL MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST.
3.	DO NOT SHUT-OFF/PUT OUT SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONNEL.
4.	PROVIDE SEISMIC RESTRAINT FOR ALL MECHANICAL AND PLUMBING EQUIPMENT AND PIPING IN ACCORDANCE WITH 2015 IBC, IMC, AND IPC. SEISMIC BUILDING CATEGORY (IBC) "II", SITE CLASS "D", SD1=0.491, AND SDS=0.771.
5.	CONTRACTOR SHALL PROVIDE 1 YEAR STANDARD WARRANTY.
6.	SUBMIT ALL EQUIPMENT, AIR DEVICES, VALVES, FITTINGS, PIPE MATERIALS, INSULATION, AND ACCESSORIES TO BE USED IN PROJECT. SUBMIT ALL EQUIPMENT AND ACCESSORIES LISTED ON MECHANICAL SCHEDULE SHEET.
7.	SUBMIT ELECTRONIC SUBMITTAL TO ARCHITECT FOR REVIEW AND APPROVAL BY ENGINEER. DO NOT PLACE ORDER UNTIL ENGINEER HAS REVIEWED AND APPROVED SUBMITTAL.
8.	RECORD ALL FIELD CHANGES ON RECORD DRAWINGS AND SUBMIT TO ENGINEER DURING PROJECT CLOSE OUT.
9.	INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS.
10.	PROJECT ELEVATION IS 5000 FT FOR EQUIPMENT SELECTION.
11.	PROVIDE ALL DUCT IN ACCORDANCE WITH SMACNA STANDARDS FOR 2" WC PRESSURE CLASS. SEAL ALL TRANSVERSE AND LONGITUDINAL SEAMS AND JOINTS EXCEPT FOR WELDED OR LOCKING-TYPE LONGITUDINAL JOINTS.
12.	INSTALL FLEXIBLE DUCT AS SHORT AS POSSIBLE WITHOUT KINKS.
13.	LOCATE DIFFUSERS AND RETURN GRILLES ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLANS.
14.	DUCT DIMENSIONS SHOWN ARE INSIDE FLOW DIMENSIONS.
15.	PROVIDE TEST AND BALANCE REPORT TO ENGINEER FOR REVIEW AND APPROVAL.
16.	PROVIDE ISOLATION VALVES SERVING EACH PIECE OF EQUIPMENT.
17.	DISINFECT NEW DOMESTIC WATER PIPING. SUBMIT DISINFECTION REPORT TO ENGINEER FOR REVIEW.
18.	ALL WASTE AND VENT IS 2" UNLESS OTHERWISE NOTED. SEE PLUMBING PIPING SCHEDULE FOR PIPING MATERIALS AND INSULATION REQUIREMENTS.
19.	PROVIDE DEEP SEAL TRAP, TRAP GUARD, OR TRAP PRIMERS ON ALL FLOOR DRAINS, ALL FLOOR SINKS, AND ALL STANDPIPES THAT DO NOT HAVE A RELIABLE SOURCE TO MAINTAIN TRAP SEAL.
20.	T--DRILL FITTINGS SHALL NOT BE USED IN THIS PROJECT.
21.	ALL "BRANCH" HOT AND COLD WATER LINES FEEDING ONE OR TWO SINKS OR LAV'S ARE 1/2". DROP IN WALL AND DISTRIBUTE TO SINKS OR LAV'S AS REQ'D. PROVIDE INDIVIDUAL STOPS FOR EACH SINK OR LAV.
<div><div><div><div>PROFESSIONAL ENGINEER</div><div>Jacob Harmer</div><div>No. 10887943-2202</div><div>JACOB HARMER</div><div>11/29/2018</div><div>STATE OF UTAH</div></div></div><div><div><div><div>SMD</div><div>ENGINEERING, PLLC</div><div>"Engineered Mechanical Solutions"</div><div>986 WEST ATHERTON DRIVE, SUITE 200</div><div>TAYLORSVILLE, UTAH 84123</div><div>(801) 268-3828, FAX (801) 268-3297</div><div>WWW.SMDENGINEERING.COM</div></div></div><div><div>A. 11.21.2006</div><div>OWNER CHANGE / CONSTRUCTOR INPUT</div></div><div>REVISIONS</div><div><div>hoffman architects LLC</div><div>1308 south 1700 east #202</div><div>salt lake city, utah 84108</div><div>801.583.3400</div><div>www.hhoffman.com</div></div></div></div>	
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29 NOVEMBER 2018	
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20181104	
DESIGNED: JBH DRAWN: STAFF REVIEWED: SMD	
SHEET LIST	
MH001 – MECHANICAL LEGEND AND NOTES MH101 – MECHANICAL FLOOR PLAN MH501 – MECHANICAL DETAILS AND SCHEDULES PP101 – PLUMBING FLOOR PLANS PP501 – PLUMBING DETAILS AND SCHEDULES	

MECHANICAL LEGEND
AND NOTES

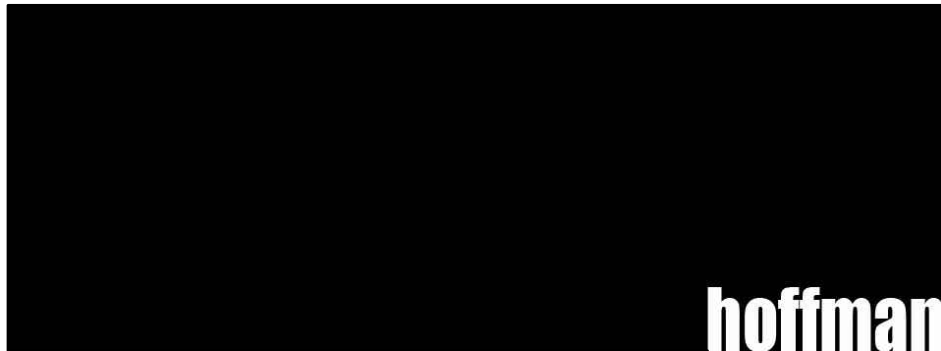
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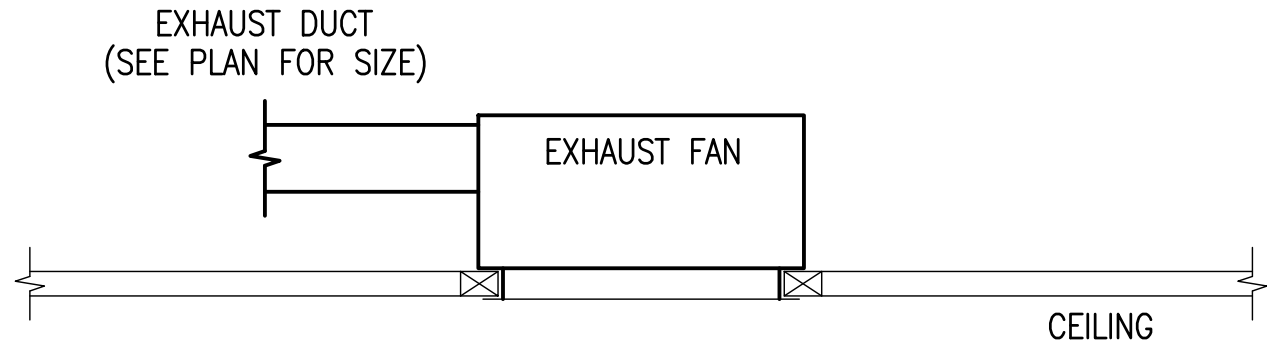
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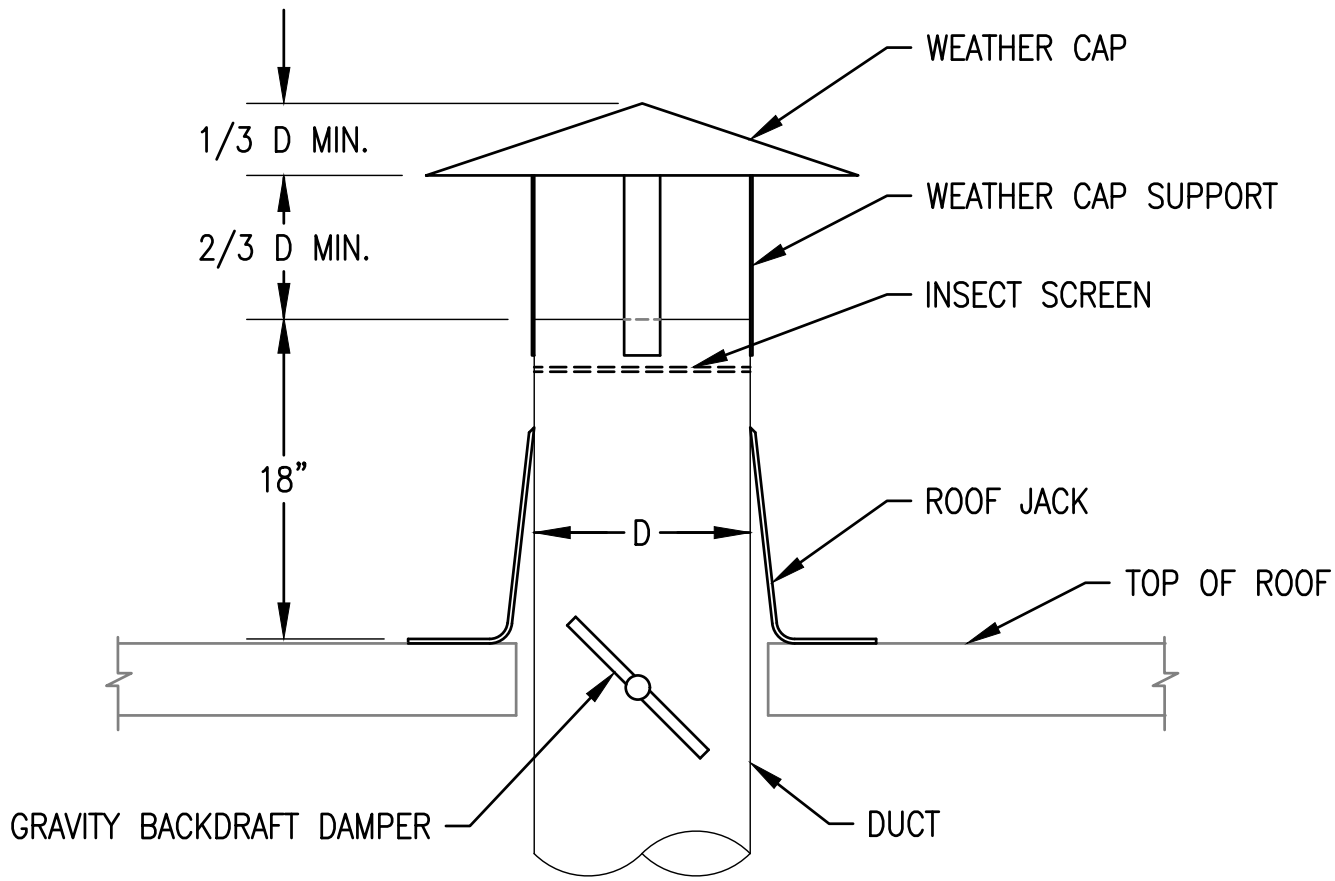
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MECHANICAL
FLOOR PLAN
MH101

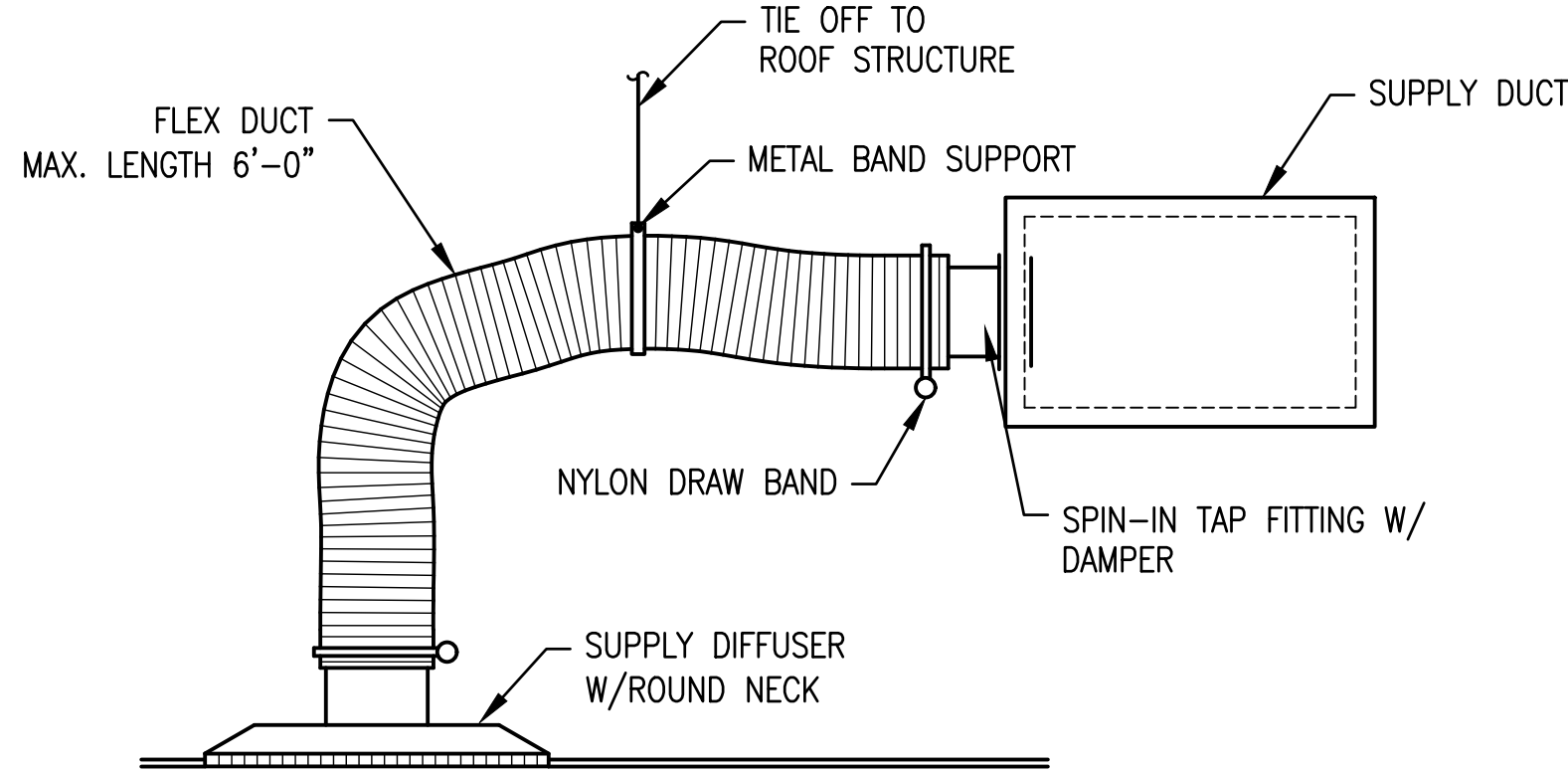
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1 CEILING EXHAUST FAN



2 DUCT THROUGH ROOF



3 FLEX DUCT CONNECTION

EXHAUST FAN SCHEDULE (EF)

EF
CFM

MARK	AREA SERVED	TYPE	CFM	ESP (IN WC)	FAN RPM	MOTOR				SONES	DAMPER	CONTROL	OPENING SIZE IN	MANUFACTURER MODEL	REMARKS
						RPM	BHP	HP	VOLT /PHASE						
EF-1	TOILET ROOM	CEILING	75	0.375	779	779	80 WATTS	N/A	120/1ø	1.4	GRAVITY	LIGHTS	N/A	GREENHECK SP-B110	W/ ELECTRONIC SPEED CONTROL

AIR DEVICE SCHEDULE

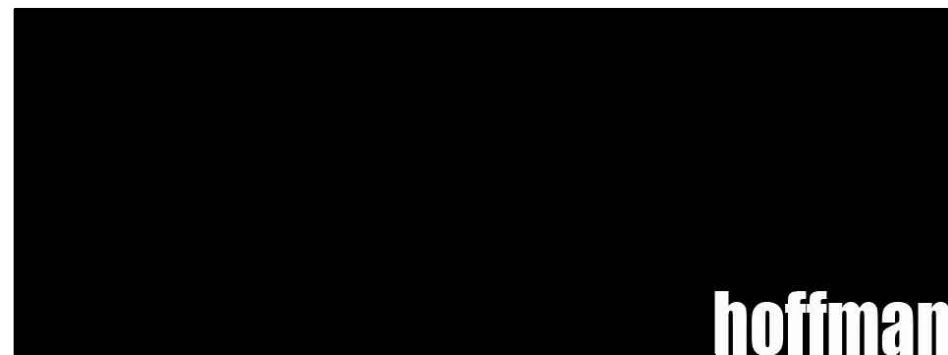
DEVICE
CFM/NCK

MARK	TYPE & DUTY	FACE SIZE W X H	NECK SIZE W X H	CEILING TYPE	MAX. CFM	MAX. T.P. (IN WC)	MAX. NC LEVEL	MIN T50 THROW (FT)	PATTERN	MANUFACTURER MODEL	REMARKS
S-1	LOUVERED FACE DIFFUSER	24/24	6ø	LAY-IN	130	0.05	15	10	4-WAY	KRUEGER 1400	FRAME 23, LAY-IN
S-2	LOUVERED FACE DIFFUSER	24/24	8ø	LAY-IN	225	0.06	15	12	4-WAY	KRUEGER 1400	FRAME 23, LAY-IN
S-3	LOUVERED FACE DIFFUSER	24/24	10ø	LAY-IN	380	0.09	15	15	4-WAY	KRUEGER 1400	FRAME 23, LAY-IN
R-1	PERFORATED RETURN	24/24	22/22	LAY-IN	1000	0.05	28	N/A	N/A	KRUEGER 6490	LAY-IN FRAME, PROVIDE PLENUM BOX AS REQUIRED



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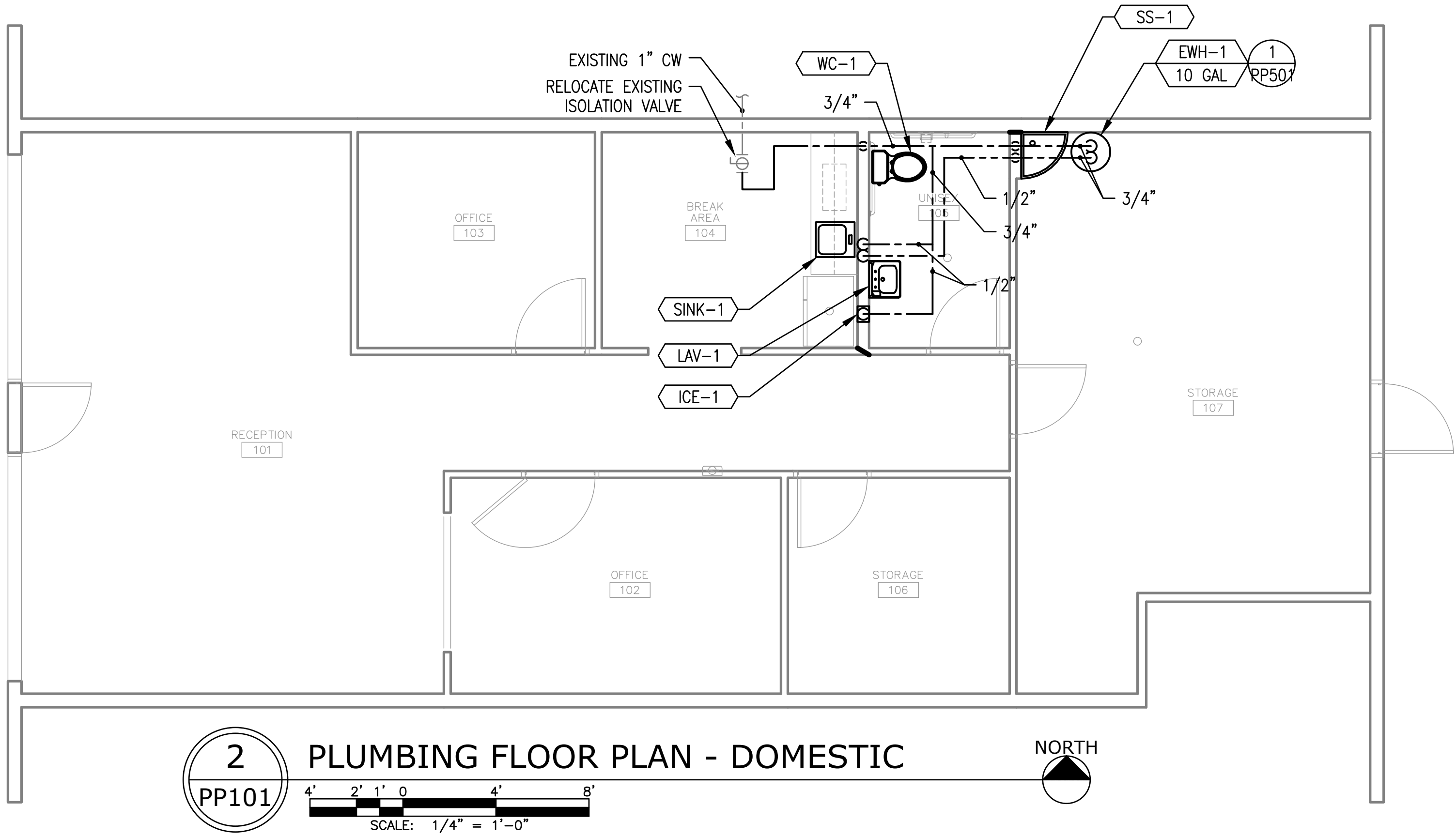
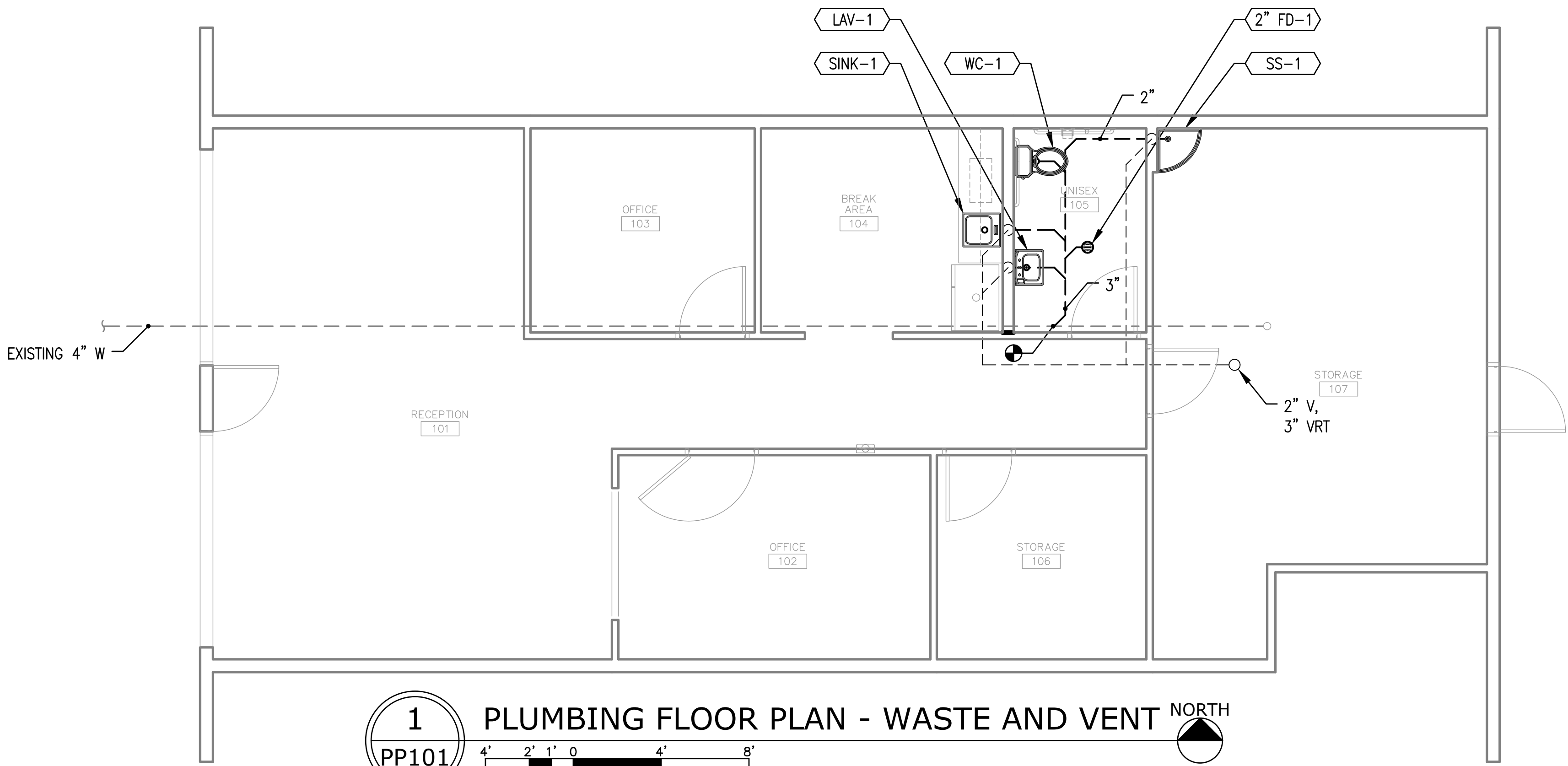
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MECHANICAL DETAILS
AND SCHEDULES
MH501

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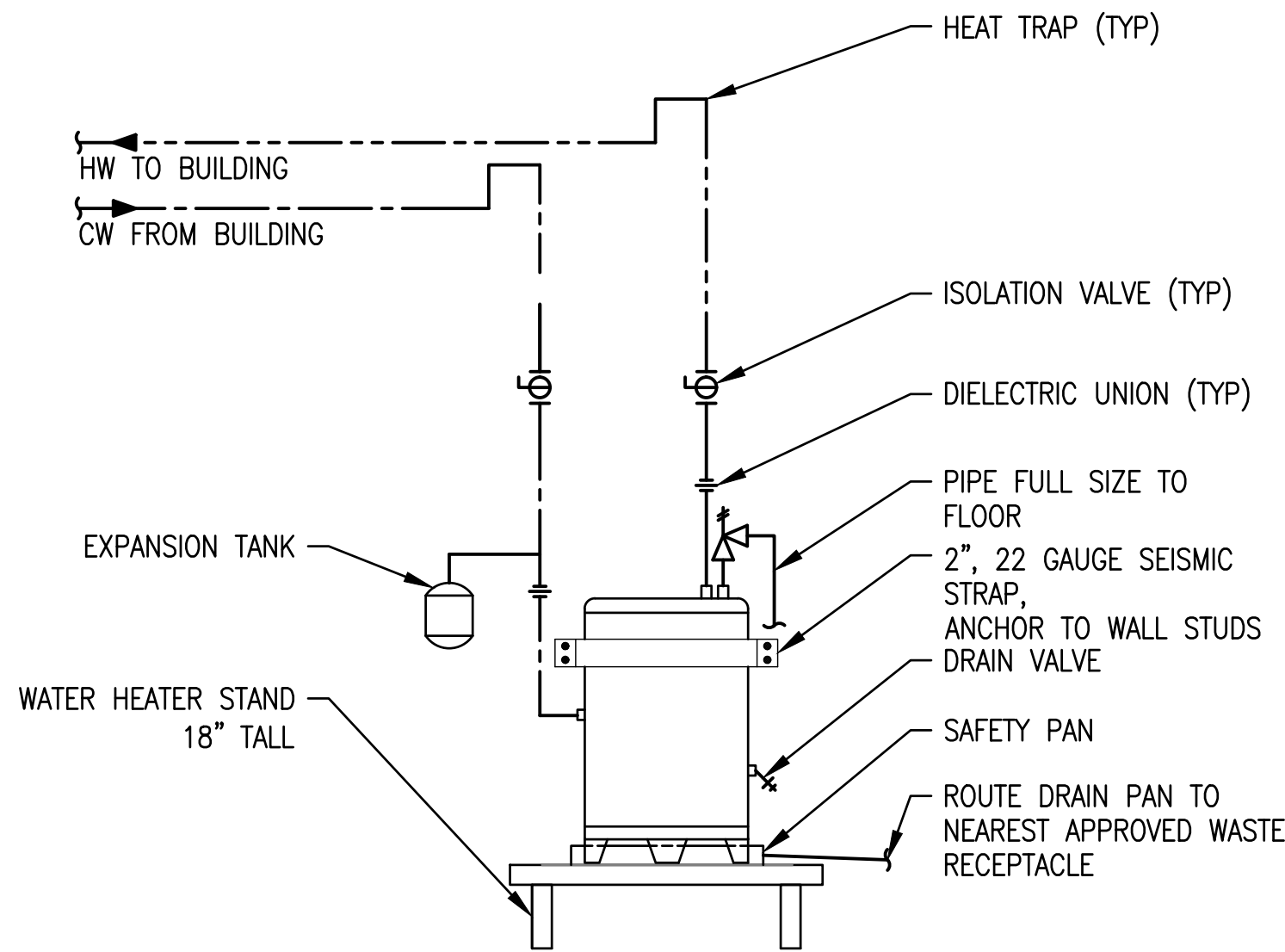
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**PLUMBING
FLOOR PLANS**
PP101

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1 ELECTRIC WATER HEATER PIPING DETAIL
PP501

2 NOT USED
PP501

3 NOT USED
PP501

PLUMBING PIPING SCHEDULE

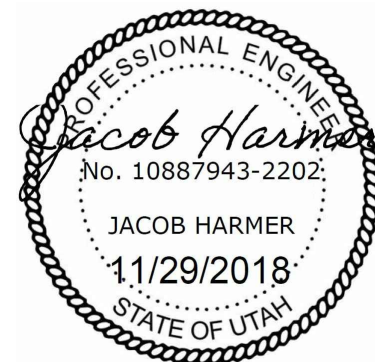
SYSTEM	SIZE	MATERIAL	INSULATION	FITTINGS	HORIZONTAL HANGER SPACING (SEE IPC 308.5)
UNDERGROUND WASTE AND VENT	ALL	SCHEDULE 40 PVC HOLLOW CORE	N/A	SOLVENT WELD FITTINGS	N/A
UNDERGROUND WASTE AND VENT	ALL	ABS	N/A	SOLVENT WELD FITTINGS	N/A
ABOVE GROUND WASTE AND VENT	ALL	ABS/SCHEDULE 40 PVC	N/A	SOLVENT WELD FITTINGS	4'
DOMESTIC HOT AND RECIRC	ALL	TYPE "L" COPPER	1" FIBERGLASS	SOLDERED OR PRO-PRESS FITTINGS	12'
DOMESTIC HOT AND RECIRC	ALL	PEX-A	1" FIBERGLASS	MANUFACTURERS FITTINGS	32" (2.67')
DOMESTIC COLD	ALL	TYPE "L" COPPER	N/A	SOLDERED OR PRO-PRESS FITTINGS	12'
DOMESTIC COLD	ALL	PEX-A	N/A	MANUFACTURERS FITTINGS	32" (2.67')

PLUMBING FIXTURE SCHEDULE

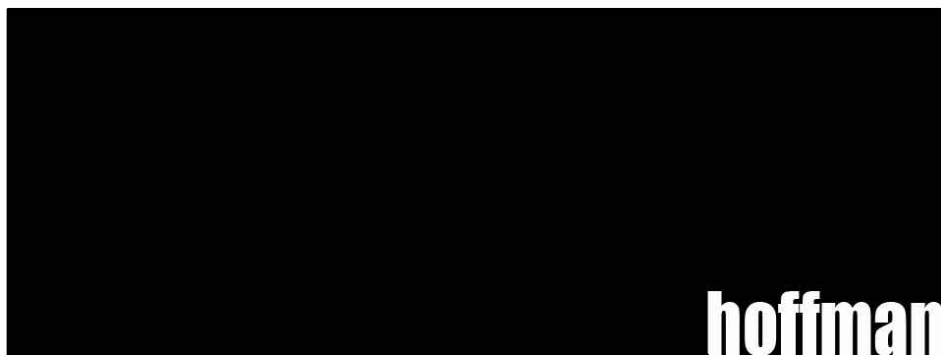
MARK	FIXTURE	ROUGH IN SIZE					MANUFACTURER MODEL	REMARKS
		WASTE (IN)	TRAP (IN)	VENT (IN)	HW (IN)	CW (IN)		
WC-1	ADA COMPLIANT, WATER CLOSET, FLOOR MOUNTED, TANK TYPE	3	2	2	N/A	1/2	AMERICAN STANDARD CHAMPION PRO	WHITE VITREOUS CHINA, 1.28 GPF, 4" FLUSH VALVE, 17" FLOOR TO RIM, ELONGATED BOWL, W/OLSENITE #95 OPEN FRONT SEAT LESS COVER, CHROMED QUARTER TURNED ANGLE STOPS AND CHROMED BRASS SUPPLY.
LAV-1	ADA COMPLIANT, LAVATORY, WALL-HUNG, W/ MANUAL LEVER FAUCET	2	1 1/4	2	1/2	1/2	AMERICAN STANDARD "LUCERNE" LAVATORY W/ AMERICAN STANDARD SEVA FAUCET	VITREOUS CHINA, 18"x21", WALL MOUNTED LAVATORY, 1.5 GPM, ADA COMPLIANT SINGLE CONTROL LEVER FAUCET, W/ FLOOR MOUNTED CONCEALED ARM CARRIER, FAUCET HOLES ON 4" CENTERS, GRID STRAINER, CHROMED QUARTER TURNED ANGLE STOPS, CHROMED BRASS SUPPLIES, CHROMED BRASS "p" TRAP, ADA COMPLIANT INSULATION KIT AND ASSE 1070 COMPLIANT WATER TEMPERATURE LIMITING DEVICE, SET TO 110°F. PROVIDE ADA INSULATION KIT AS REQUIRED.
SINK-1	SINK, SINGLE COMPARTMENT, STAINLESS STEEL, COUNTER MOUNTED, W/ GOOSENECK FAUCET WITH PULL OUT	2	1 1/2	2	1/2	1/2	ELKAY ECTSR25229BG SINK W/ LK5000CR FAUCET	STAINLESS STEEL UNDER COUNTER MOUNTED SINK, OVERALL DIMENSIONS 25"x22", INSIDE BOWL DIMENSIONS 22-1/2"x16-3/4"x9" W/ 10" GOOSENECK FAUCET WITH PULL OUT, CHROMED QUARTER TURNED ANGLE STOPS, CHROMED BRASS SUPPLIES, CHROMED BRASS "p" TRAP. PROVIDE DISHWASHER CONNECTION AND HW QUARTER TURNED BALL VALVE STOP.
ICE-1	ICE WALL BOX	N/A	N/A	N/A	N/A	1/2	SIoux CHIEF 696-G1010XXXX	NO LEAD, 8X8 PLASTIC OUTLET BOX OUTLET BOX W/ MINI-RESTER WATER HAMMER ARRESTER AND QUARTER TURNED ANGLE STOP.
SS-1	SERVICE SINK, ENAMELED CAST IRON	3	3	2	1/2	1/2	AMERICAN STANDARD FLORWELL W/FAUCET 8344.112	28"x28"x13" DEEP ENAMELED CAST IRON SERVICE SINK W/ FLAT GRID DRAIN, REMOVABLE VINYL-COATED RIM GUARD, HOSE AND HOSE BRACKET. POLISHED CHROME FAUCET W/TOP BRACE, STOPS AND VACUUM BREAKER.
FD-1	ROUND FLOOR DRAIN	X	X	X/2 2" MIN	N/A	N/A	ZURN FD-2321-NH"x" "X" INDICATED ON DRAWINGS	CAST IRON BODY, ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, MEMBRANE CLAMP, WEEP HOLES, AND DEEP SEAL TRAP CONNECTION.

ELECTRIC WATER HEATER SCHEDULE (EWH)

MARK	TANK CAP GAL	INPUT WATTS	RECOVERY GAL/HR	TEMP RISE °F	DIMENSIONS			ELECT.		MANUFACTURER MODEL	REMARKS
					DIA. IN	HEIGHT IN	OP. WT LBS	VOLT/ PHASE	AMPS		
EWH-1	10	2,000	10	90	16	21	150	208/ 1ø	10	BRADFORD WHITE RE110U6	W/ WATER HEATER SAFETY PAN AND AMTROL ST-5-C EXPANSION TANK



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PLUMBING DETAILS
AND SCHEDULES
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ELECTRICAL GENERAL NOTES

GENERAL NOTES:

1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS, AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUSIVE OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
4. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR.
5. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM THE OUTSIDE, IT SHALL BE SEALED AS PER NEC 225.27.
6. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY LABELED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. THE LABEL SHALL ALSO CONTAIN THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED AS PER NEC 110.24.
7. ALL PANELBOARDS AND SWITCHBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THEIR POWER ORIGINATES AS PER NEC 408.4B.
8. ALL EQUIPMENT PROVIDED BY THE EC SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
9. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
10. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS.
11. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
12. THE EC SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION.
13. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNO. CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITHIN WALL, CEILINGS, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE EMT WITH STEEL SET SCREW FITTINGS. IN EXTERIOR LOCATIONS (EXCEPT FOR THE SERVICE ENTRANCE) THE CONDUIT SHALL BE EMT WITH COMPRESSION GLAND TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH. 40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
14. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TYPE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES.
15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
16. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR).
17. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12 (CU, THHN) + #12 (CU, THHN) GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10 (CU, THHN) FOR BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
18. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNO. CONDUCTORS UP TO #10AWG SHALL BE SOLID AND CONDUCTORS #8AWG OR LARGER SHALL BE STRANDED.
19. METAL CLAD CABLEING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.
20. EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
21. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLEING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
22. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNING 3-6548 SILICONE RTV FOAM.
23. COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINERY AND OTHER WALL OBSTRUCTIONS. COORDINATE CEILING MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR NEW LOCATION.
24. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ALL DEVICES INSTALLED WITHIN THE CEILING SUCH AS LIGHTING, SPEAKERS, FIRE SPRINKLERS, SMOKE/HEAT DETECTORS, ETC. ANY EXISTING DEVICES THAT NEED TO BE RELOCATED IN ORDER TO ACCOMMODATE NEW CONSTRUCTION/REMODEL MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR RESOLUTION AND FURTHER DIRECTION.
25. ALL 15-20A, 120VAC RECEPTACLES INSTALLED IN AREAS WHERE ELECTRICAL DIAGNOSTIC EQUIPMENT, ELECTRICAL HAND TOOLS, OR PORTABLE LIGHTING EQUIPMENT ARE TO BE USED SHALL HAVE GROUND FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL PER NEC 511.12.

REMODEL NOTES

26. THE EC SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE EXISTING POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BRANCH CIRCUIT BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
27. THE EC SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELECOM ROOM FROM WHICH NEW TELE/ DATA OUTLETS WILL BE FED. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND/TERMINATE NEW TELECOM CABLING.
28. ALL EXISTING FIRE ALARM DEVICES (SHOWN AND NOT SHOWN) AND WIRING ARE TO BE REMOVED, DEVICE HOLES PATCHED AND PAINTED TO MATCH EXISTING WALL IN COLOR. CONTRACTOR TO FIELD VERIFY ALL LOCATIONS OF EXISTING FIRE ALARM DEVICES.
29. ALL DEVICES NOT SHOWN ON PLANS ARE EXISTING TO REMAIN IN PLACE AND FUNCTIONAL. IN THE EVENT THAT WIRING TO AN EXISTING DEVICE IS DAMAGED, WIRING MUST BE REPLACED AND DEVICE BROUGHT BACK TO FULL OPERATION.

LIGHTING NOTES:

3. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
 31. LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
 32. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS.
 33. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURER, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT, AND STARTING CHARACTERISTICS FOR ALL INSTALLED.
 34. LIGHT FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE PROPER ENVIRONMENT. CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THEIR INSTALLED USE AND PREMATURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS.
 35. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING CONTROL SHOP DRAWINGS WITH ELECTRICAL SUBMITTAL FOR REVIEW.
- POWER NOTES:**
36. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
 37. WIRING DEVICES SHALL BE WHITE IN COLOR WITH NYLON COVER PLATES. EXTERIOR OUTLETS SHALL HAVE CAST COVERS WITH FLIP TYPE LIDS UNO.
 38. THE EC SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL EQUIPMENT IS REMOVED.
 39. EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE EC SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCOMPLETE WIRING OR DEVICES INSTALLED BY THE EC WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE EC'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
 40. EC SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS.
 41. PROVIDE A 20AMP, 120VAC RECEPTACLE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT PER NEC 210.63. RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPTING TYPE, INSTALLED WITHIN A CAST METAL BOX, AND WITHIN 25' OF ALL REQUIRED EQUIPMENT.

DATA/TELECOM NOTES:

42. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY FOR THE TELECOM/CATV SYSTEMS. THIS SHALL CONSIST OF A FOUR SQUARE DEVICE MOUNTING BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR TO THE CEILING SPACE ABOVE IF OPEN. CABLING, JACKS, FACEPLATES, TESTING AND TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY OTHERS.
- FIRE ALARM NOTICES:
43. PROVIDE AND INSTALL AN ADDRESSABLE FIRE ALARM SYSTEM TO MEET THE REQUIREMENTS OF NFPA 72, 2012 EDITION, AND OTHER PERTINENT LOCAL/STATE CODES. THE SYSTEM SHALL MONITOR FLOW/TAMPER SWITCHES ON THE FIRE SPRINKLER RISER, DUCT MOUNTED SMOKE DETECTORS IN ALL AIR HANDLING EQUIPMENT OVER 2000CFM, PULL STATIONS AT EGRESS DOORS, HEAT/SMOKE DETECTORS AS SHOWN ON THE CONSTRUCTION DOCUMENTS, AND PROVIDE ELEVATOR RECALL/SHUNT TRIP WHERE APPLICABLE. THE FIRE ALARM CONTROL PANEL SHALL PROVIDE AUDIOVISUAL ANNUNCIATION THAT THE BUILDING FIRE ALARM SYSTEM HAS ACTIVATED IN ALL COMMON SPACES AND AS OTHERWISE REQUIRED/SHOWN ON THE DRAWINGS. THE EC SHALL GENERATE FIRE ALARM SHOP DRAWINGS AND SUBMIT THEM TO THE FIRE MARSHAL AND THE ENGINEER FOR APPROVAL. SUBMISSION REQUIREMENTS SHALL CONFORM TO NFPA 72 AND THE FIRE MARSHAL. NO FIRE ALARM WORK SHALL COMMENCE IN THE BUILDING PRIOR TO RECEIPT OF APPROVED FIRE ALARM SHOP DRAWINGS FROM THE FIRE MARSHAL.

CONCEAL IN WA

45. SIGNAL LINE CIRCUIT IS TO BE CLASS A, NAC CIRCUIT IS TO BE CLASS B. T-TAPPING OF SLC CIRCUIT IS NOT PERMITTED.
46. FIRE ALARM SYSTEM TO CONFORM TO CURRENT NFPA 72, 2012 IFBC, AND 2012 IFC.
47. INCOMING AND OUTGOING SLC WIRES ARE TO MAINTAIN A 5' SEPARATION WHERE RUNS ARE LONGER THAN 10'.
48. IN ALL AREAS WHERE MORE THAN ONE FIRE ALARM STROBE IS IN SIGHT OF EACH OTHER, THEY ARE TO BE SYNCHRONIZED TO FLASH AT THE SAME RATE AND TIME. PROVIDE A SYNCHRONIZATION MODULE.
49. IN SMALLER AREAS WHERE 15CD HORN/STROBES ARE USED, THE dB LEVEL OF THE HORN SHALL BE TURNED DOWN TO 15dB ABOVE AMBIENT NOISE LEVEL. SEE NFPA 72 TABLE 4.7.2 FOR AVERAGE AMBIENT SOUND LEVELS.
50. FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED/SEALED BY A PROFESSIONAL FIRE PROTECTION ENGINEER REGISTERED IN THE STATE OF UTAH.
51. BRANCH CIRCUIT BREAKERS PROVIDING POWER TO FIRE ALARM SYSTEMS SHALL BE IDENTIFIED IN POWER PANELS WITH RED LABELS STATING "FIRE ALARM CIRCUIT" AS REQUIRED BY NEC 760.41(B).
52. IN THE EVENT THAT MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE ENCOUNTERED, ALL WORK IN THE AREA WILL STOP AND THE ARCHITECT WILL BE CONTACTED IMMEDIATELY FOR DIRECTION.
53. ALL EXISTING FIRE ALARM DEVICES ARE TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL THE NEW SYSTEM IS WORKING PROPERLY. IN THE CASE WHERE AN EXISTING FIRE ALARM DEVICE IS IN DIRECT CONFLICT WITH A NEW DEVICE, THE EXISTING DEVICE IS TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL FINAL TEST WHEN IT CAN BE REMOVED AND THE NEW DEVICE CAN BE PLACED IN ITS LOCATION. ONCE THE NEW SYSTEM IS OPERATING PROPERLY, ALL EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED AND HOLES PATCHED.

ELECTRICAL SYMBOL SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	NOTES
	LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - WALL MOUNTED	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL MOUNTED	WALL	1, 2
	LIGHT FIXTURE - DOWNLIGHT	CEILING	1
	EMERGENCY LIGHT FIXTURE - DOWNLIGHT	CEILING	1, 2
	LIGHT FIXTURE - WALL WASH DOWNLIGHT	CEILING	1
	LIGHT FIXTURE - CEILING MOUNTED	CEILING	1
	LIGHT FIXTURE - PENDANT/CHANDELIER	CEILING	1
	LIGHT FIXTURE - WALL BRACKET	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL BRACKET	WALL	1, 2
	LIGHT TRACK WITH FIXTURES	SURFACE	1
	EXIT FIXTURE - WALL MOUNT	WALL	1, 2, 3
	EXIT FIXTURE - CEILING MOUNT	CEILING	1, 2, 3
	EXIT FIXTURE W/ EMERGENCY HEADS - WALL MOUNT	WALL	1, 2, 3
	EXIT FIXTURE W/ EMERGENCY HEADS - CEILING MOUNT	CEILING	1, 2, 3
	DUAL HEAD EMERGENCY LIGHT FIXTURE	WALL	1, 2
	AREA LIGHT FIXTURE - POLE MOUNTED	POLE	1
	OCCUPANCY SENSOR - CEILING MOUNT	CEILING	1
	PHOTO-ELECTRIC CELL WITH RELAY	SURFACE	1
	LIGHTING RELAY/POWER PACK	SURFACE	1
	TIME CLOCK - 7 DAY	5' - 0"	
	WALL OCCUPANCY SENSOR SWITCH	4' - 0"	
	SINGLE POLE SWITCH	4' - 0"	
	DOUBLE POLE SWITCH	4' - 0"	
	THREE WAY SWITCH	4' - 0"	
	FOUR WAY SWITCH	4' - 0"	
	DIMMER SWITCH	4' - 0"	
	LOW VOLTAGE SWITCH	4' - 0"	
	THERMAL OVERLOAD SWITCH	4' - 0" UNO	
	PILOT LIGHT SWITCH	4' - 0"	
	DUPLEX OUTLET, 20A, 120VAC	1' - 6" UNO	
	DUPLEX OUTLET, 20A, 120VAC - GFCI	1' - 6" UNO	
	DUPLEX OUTLET - SPLIT WIRED	1' - 6" UNO	
	DUPLEX OUTLET - ISOLATED GROUND	1' - 6" UNO	
	DUPLEX OUTLET WITH USB PORTS	1' - 6" UNO	
	DUPLEX OUTLET - OCCUPANCY SENSOR CONTROLLED	1' - 6" UNO	
	DUPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	DUPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	FOURPLEX OUTLET, 20A, 120VAC	1' - 6" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - GFCI	1' - 6" UNO	
	FOURPLEX OUTLET - ISOLATED GROUND	1' - 6" UNO	
	FOURPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
	FOURPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
	APPLIANCE OUTLET - 208/240V SINGLE PHASE	18" OR 48"	
	APPLIANCE OUTLET - 208/480V 3-PHASE	18" OR 48"	
	DATA OUTLET	1' - 6" UNO	
	TELEPHONE OUTLET	1' - 6" UNO	
	DUAL TELEPHONE/DATA OUTLET	1' - 6" UNO	
	DATA OUTLET - FLOOR	FLOOR	
	DUAL TELEPHONE/DATA OUTLET - FLOOR	FLOOR	
	CEILING DATA OUTLET/ WIRELESS ACCESS POINT	CEILING	
	CABLE TELEVISION OUTLET	1' - 6" UNO	
	JUNCTION BOX	SURFACE	
	WALL JUNCTION BOX	1' - 6" UNO	
	FLOOR JUNCTION BOX	FLOOR	
	DISCONNECT SWITCH - NON-FUSED	5' - 0" UNO	4
	DISCONNECT SWITCH - FUSED	5' - 0" UNO	4
	DISCONNECT SWITCH - SHUNT TRIP	5' - 0" UNO	4
	COMBINATION MAGNETIC STARTER/DISCONNECT	5' - 0" UNO	
	MOTOR STARTER	5' - 0" UNO	
	CONTACTOR	5' - 0" UNO	
	MOTOR	SURFACE	
	METER - PLAN VIEW	WALL	
	PUSH BUTTON SWITCH	4' - 0"	</

	KEYED NOTE TAG
	MECHANICAL/ELECTRICAL EQUIPMENT TAG
	OTHER EQUIPMENT TAG

	WIRING / CONDUIT		UNDERGROUND/FLOOR WIRING
	CONDUIT TURNED UP		CONDUIT TURNED DOWN

CIRCUIT HOME RUN TO PANEL: # OF ARROWHEADS INDICATE # OF CIRCUITS (SEPARATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.

NOTES

1. SEE LIGHTING FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND OTHER SPECIFICS.
2. CONNECT EMERGENCY AND/OR EXIT LIGHTS TO THE UNSWITCHED SIDE OF THE AREA LIGHTING BRANCH CIRCUIT.
3. ARROW DENOTES EXIT DIRECTION.
4. USE HEAVY DUTY FOR 480 VOLT.
5. MOUNT SWITCH AT DOOR JAM PER MANUFACTURER'S INSTRUCTIONS.
6. PROVIDE UL LISTED DEVICE TO BE USED WITH THE FIRE ALARM PANEL/SYSTEM OR PROVIDE A MONITOR MODULE TO CONNECT INTO FIRE ALARM SYSTEM.
7. PROVIDE RACEWAY WITH OUTLETS 12" ON CENTER UNO.

ABBREVIATIONS

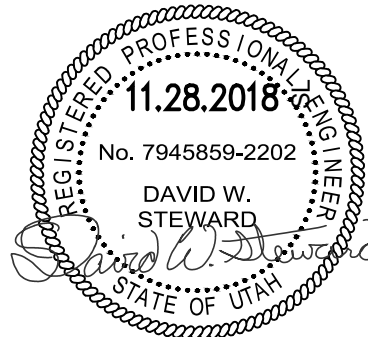
AFCI - ARC FAULT CKT INTERRUPTER	MCB - MAIN CIRCUIT BREAKER
AFB - ABOVE FINISHED FLOOR	MCC - MOTOR CONTROL CENTER
AFG - ABOVE FINISHED GRADE	MD - MAIN DISTRIBUTION PANEL
ACI - AMPS INTERRUPTING CAPACITY	MLO - MAIN LUGS ONLY
AL - ALUMINUM	NI - NEW
ATS - AUTOMATIC TRANSFER SWITCH	NIC - NOT IN CONTRACT
BC - BARE COPPER	NEC - NATIONAL ELECTRICAL CODE
BFC - BELOW FINISHED CEILING	NFPA - NATIONAL FIRE PROT. ASSN.
BFG - BELOW FINISHED GRADE	NL - NIGHT LIGHT
CKT - CIRCUIT	NR - NOT REQUIRED
CND OR C - CONDUIT	NTS - NOT TO SCALE
CLG - INSTALLED IN CEILING	PC - PLUMBING CONTRACTOR
C.R - CORD REEL	PNL - PANEL
CT - CURRENT TRANSDUCER	POC - POINT OF CONNECTION
CU - COPPER	POS - POINT OF SALE
(E) - EXISTING TO REMAIN	(R) - RELOCATED
EC - ELECTRICAL CONTRACTOR	REC - RECEPTACLES
EM - EMERGENCY	RMC - RIGID METAL CONDUIT
(F) - FUTURE	SCA - SHORT CIRCUIT AMPERES
FACP - FIRE ALARM CONTROL PANEL	SES - SERVICE ENTRANCE SWITCHGEAR
FALL - FULL LOAD AMPS	SPD - SURGE PROTECTIVE DEVICE
FVNR - FULL VOLTAGE NON REVERSING	TTB - TELEPHONE TERMINAL BOARD
GC - GROUNDING CONTRACTOR	TR - TRIMMER RESISTANT
GFCI - GROUND FAULT CKT INTERRUPTER	TY - TYPICAL
GND - GROUND	UNO - UNLESS NOTED OTHERWISE
IGF - ISOLATED GROUND	VA - VOLT/AMPS
LCP - LIGHTING CONTROL PANEL	VF - VERIFY IN FIELD
LTD - LIGHTING	VR - VANDAL RESISTANT
LV - LOW VOLTAGE	WP - WEATHERPROOF/NEMA 3R
MC - MECHANICAL CONTRACTOR	WU - WITH UNIT
MCA - MINIMUM CIRCUIT AMPS	XFMF - TRANSFORMER



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13 NOVEMBER 2018
REVIEW

ELECTRICAL SHEET INDEX

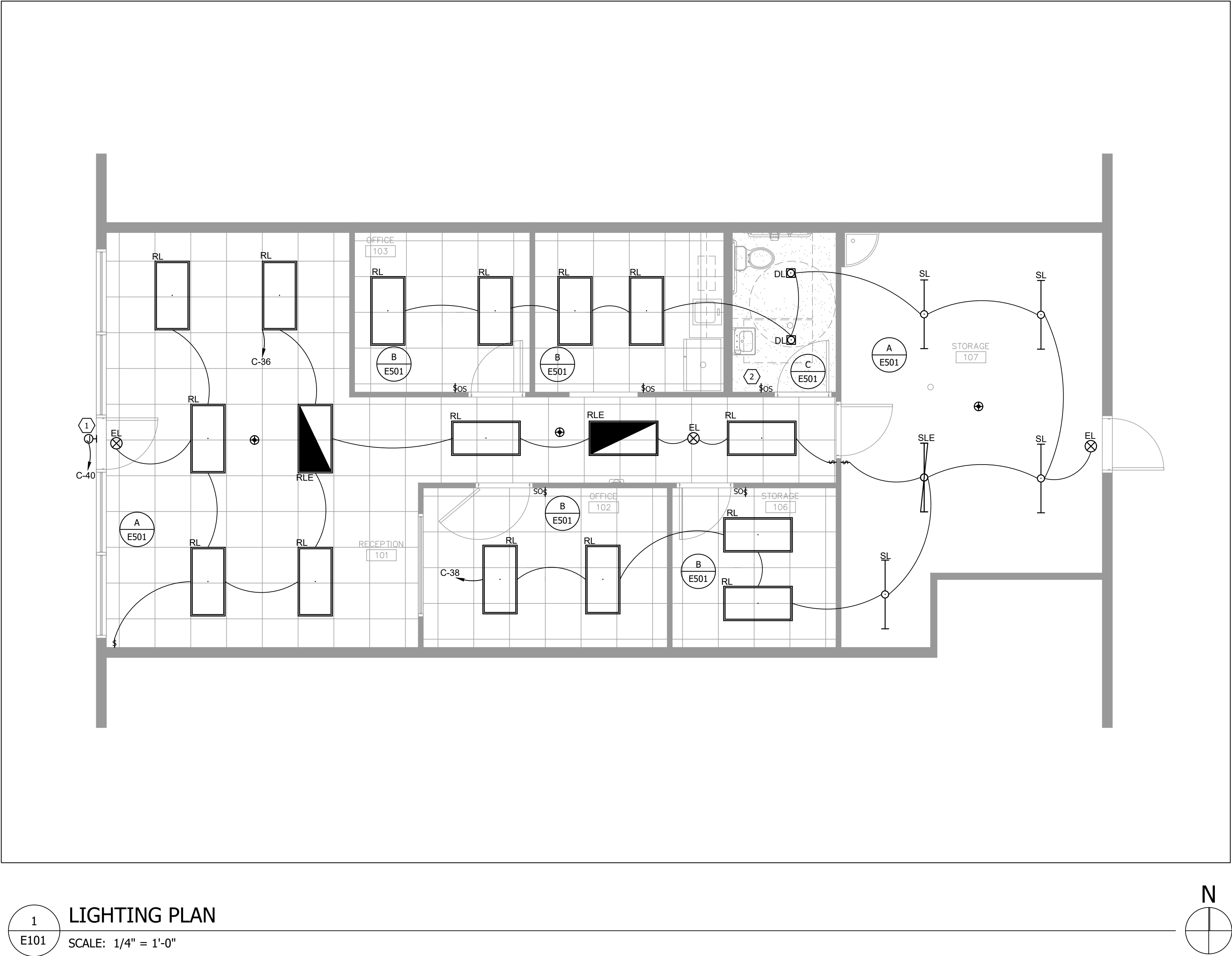
E001	ELECTRICAL GENERAL SHEET
E101	LIGHTING PLAN
E201	POWER PLAN
E501	ELECTRICAL DETAILS
E601	ELECTRICAL SCHEDULES

Insurance Office
Tenant Improvement
3823 West 9000 South
West Jordan, Utah 84088

DESIGNED: dh DRAWN: dh REVIEWED: DH 2018-60

GENERAL SHEET

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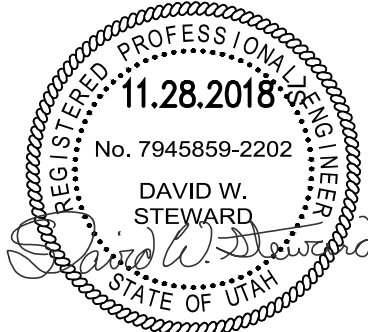
1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"

KEYED NOTES
1. JUNCTION BOX FOR SIGN TO BE PROVIDED BY OWNER. COORDINATE EXACT LOCATION AND ELEVATION WITH OWNER PRIOR TO ROUGH-IN. CIRCUIT THROUGH INTERMATIC WALL SWITCH ST101A OR PRE APPROVED EQUAL.
2. PROVIDE A WALL MOUNTED DUAL TECH OCCUPANCY SENSOR. LUTRON MS-OPS6-DDV OR APPROVED EQUIVALENT. CIRCUIT TO FAN AND LIGHTING IN RESTROOM.
GENERAL NOTES
A. CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL RELAY PANEL.
B. IT IS IN THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
C. COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS.
D. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
LIGHTING CONTROL SEQUENCE OF OPERATIONS
LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2015.
VACANCY SENSORS WILL CONTROL LIGHTING IN OFFICES, BREAK AREA, RECEPTION, AND STORAGE ROOMS.
WALL MOUNTED OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOM.
LOW VOLTAGE OVERRIDE SWITCH FOR RECEPTION AREA IS PROVIDED IF SOMEONE IS IN THE BUILDING BEFORE OR AFTER HOURS.

ROCKY MOUNTAIN
CONSULTING ENGINEERS, INC.
2117 S. 3600 W., SALT LAKE CITY, UT 84119
(801) 566-0503 www.rmceut.com Project #18219



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salt lake city, utah 84108
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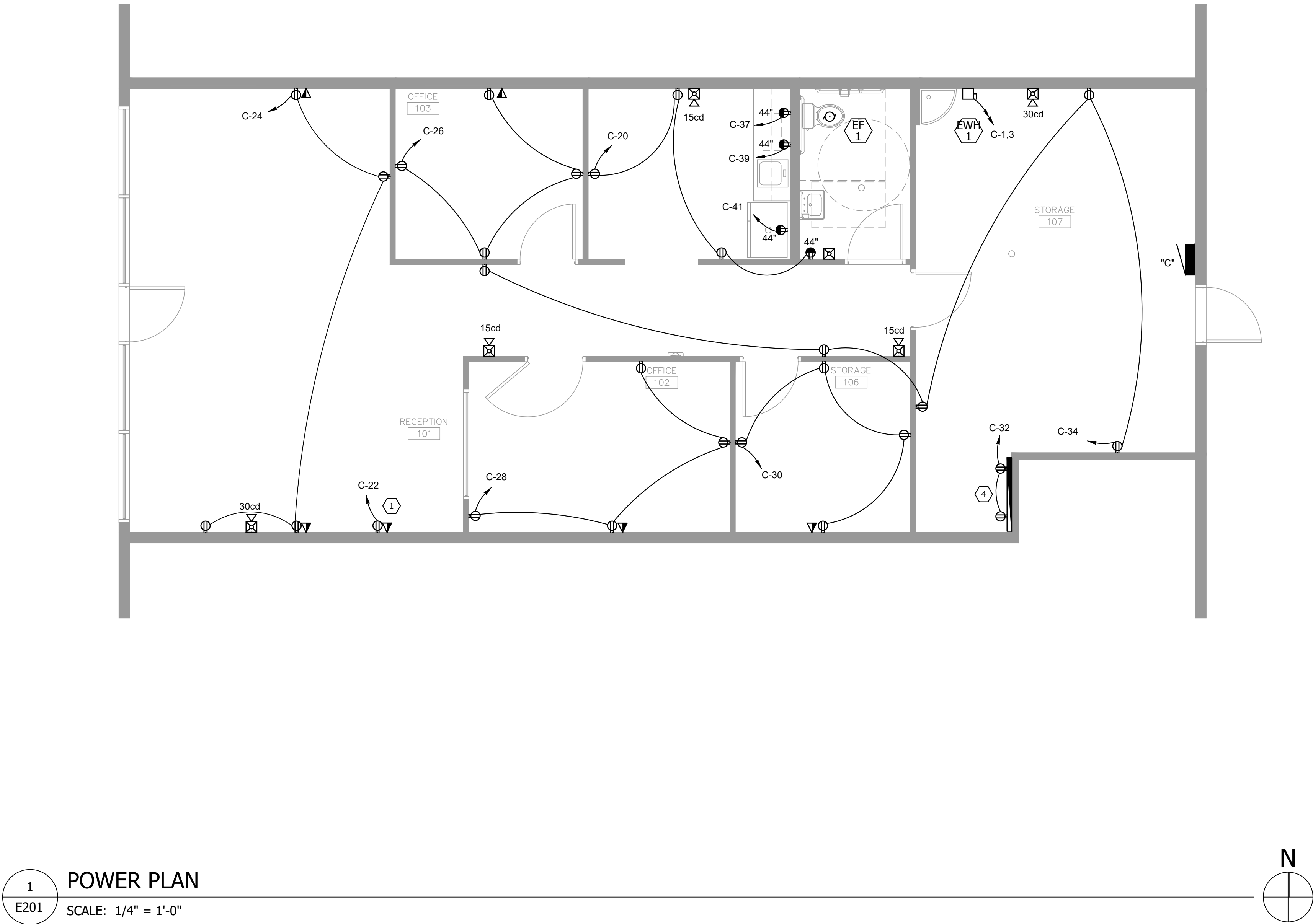
13 NOVEMBER 2018
REVIEW

Insurance Office
Tenant Improvement
3823 West 9000 South
West Jordan, Utah 84088

DESIGNED: dh DRAWN: dh REVIEWED: DH 2018-60

LIGHTING PLAN
MAIN LEVEL E101

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1
E201
POWER PLAN
SCALE: 1/4" = 1'-0"

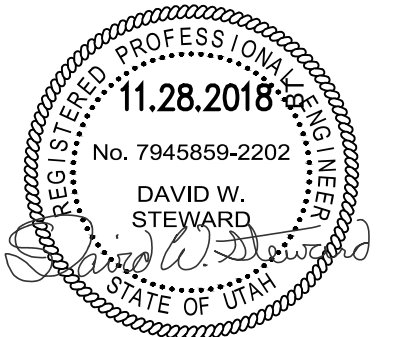
#	KEYED NOTES
1.	EC TO COORDINATE EXACT LOCATION AND ELEVATION OF TV WITH OWNER PRIOR TO ROUGH-IN.
2.	EXISTING COMMUNICATIONS CONDUIT ENTRY LOCATION.
3.	CIRCUIT EXHAUST FAN TO LIGHT SWITCH AND CIRCUIT.
4.	REFER TO RISER DETAIL 1 ON SHEET E501.

GENERAL NOTES
A. EC TO FIELD LOCATE EXISTING FIRE ALARM CONTROL PANEL. EXTEND CIRCUIT AS REQUIRED FOR ALL NEW COMPATIBLE FIRE ALARM DEVICE.
B.

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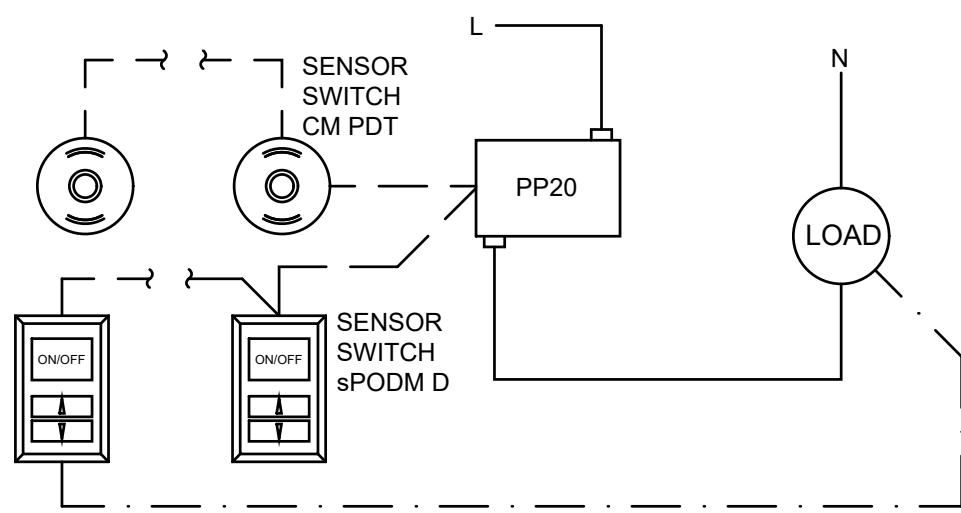
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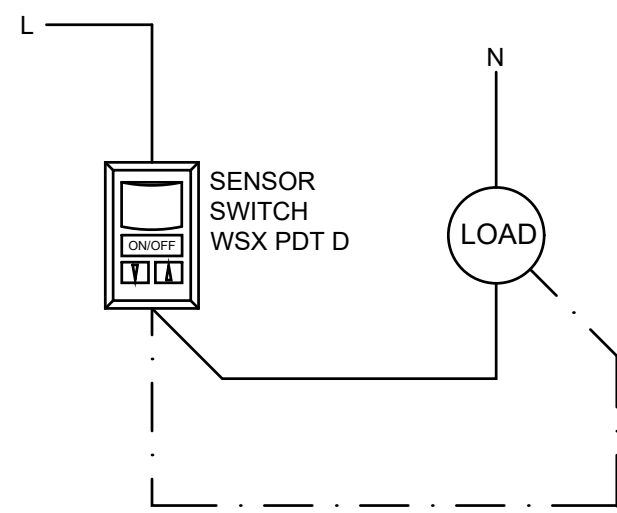
POWER PLAN
MAIN LEVEL
E201

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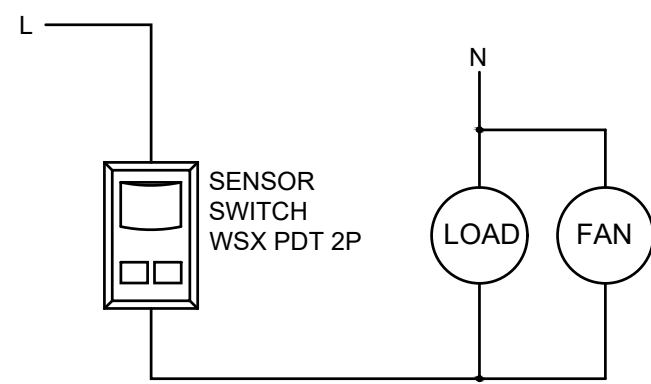
NOTE:
THIS DESIGN IS BASED ON ACUITY BRAND
PRODUCTS. WHEN USING OTHER SYSTEMS, OR
IF THE CONTRACTOR FOLLOWS A DIFFERENT
DESIGN, A COMPLETED LIGHTING CONTROL
DRAWING SHALL BE SUBMITTED TO ROCKY
MOUNTAIN CONSULTING ENGINEERS FOR
REVIEW.



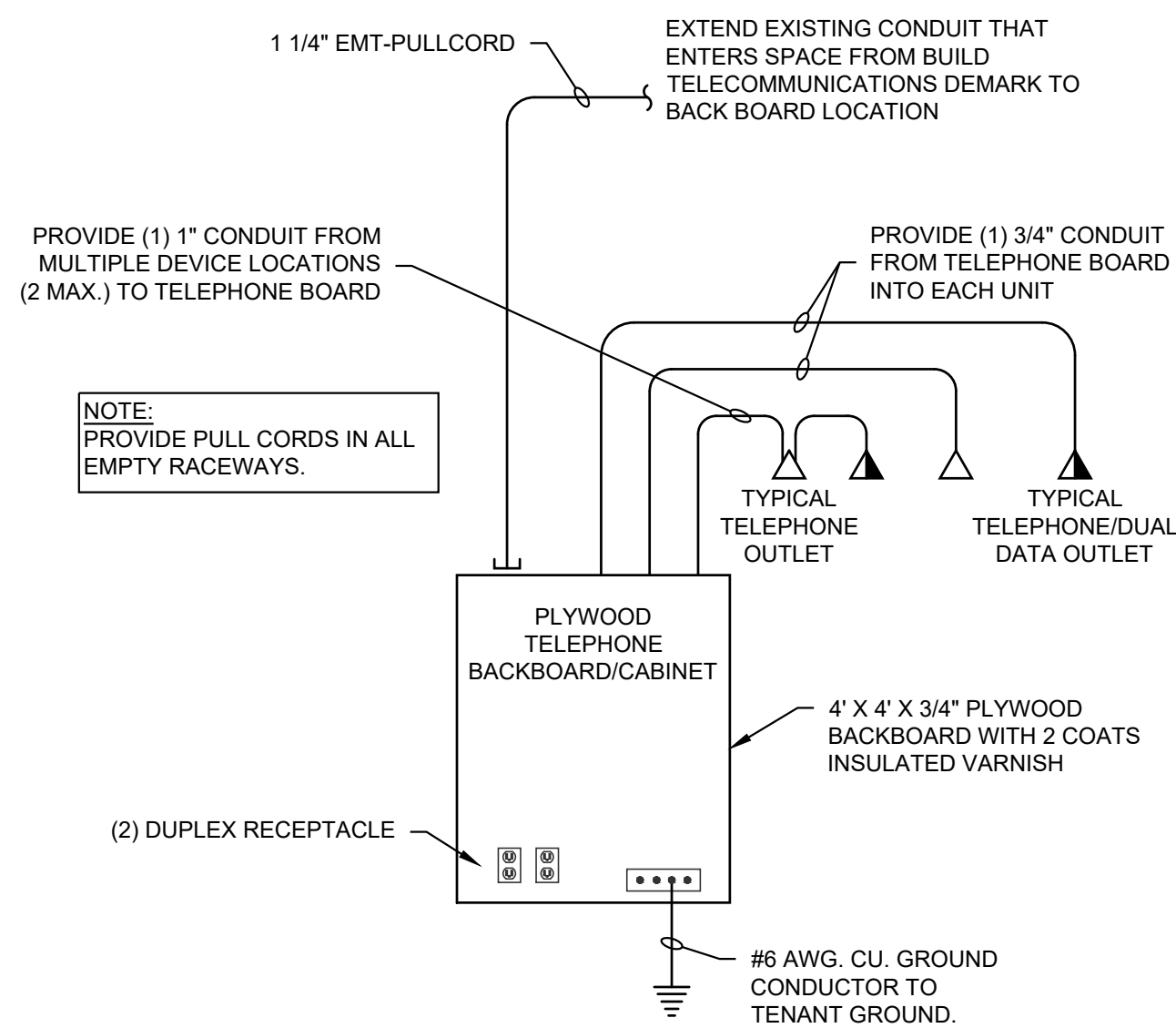
A CEILING VAC / WALL DIMMER
E501 SCALE: NONE



B WALL VAC / DIMMER
E501 SBAL: NONE

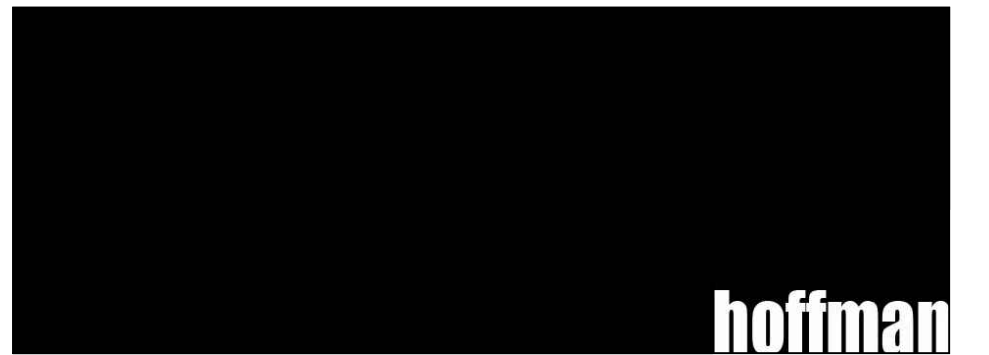


C WALL OCC / FAN
E501 SCALE: NONE

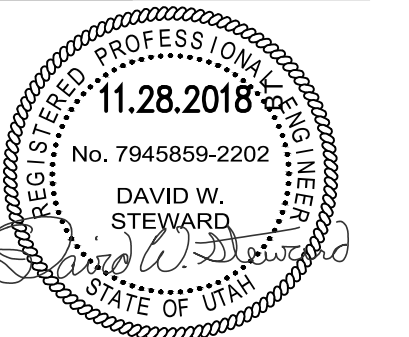


1 TYPICAL TELECOM RISER DIAGRAM
E501 NO SCALE

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ELECTRICAL DETAILS
MAIN LEVEL E501

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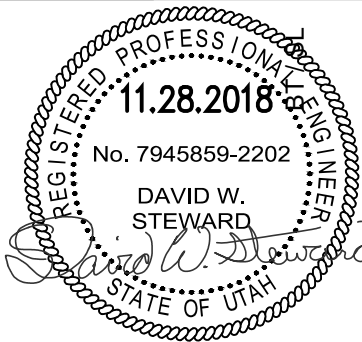
LIGHT FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	LUMEN / COLOR	DIMMING CONTROL	MOUNTING	LOAD(VA)	DESCRIPTION
DL	DECO	DLED-AFK6-23-30-UNV	UNV	LED	0-10V	RECESSED	23	6" ARCHITECTURAL RECESSED DOWNLIGHT. SPECULAR TRIM.
	OR APPROVED EQUAL			1800 lumens				
				3000K				
RL	DECO	SFP-LED-22-30-30-UNV-DFK	UNV	LED	0-10V	RECESSED	30	2X4 FLAT PANEL.
	OR APPROVED EQUAL			3060 lumens				
				3000K				
RLE	SAME AS TYPE RL, WITH EMERGENCY BATTERY BACK UP.							
SL	DECO	DACH-LED-4-35-35-U-S-D-O-W	UNV	LED	0-10V	SUSPENDED	35	4' STRIP LIGHT. PROVIDE AIRCRAFT CABLE FOR MOUNTING.
	OR APPROVED EQUAL			4600 lumens				
				3500K				
SLE	SAME AS TYPE SL, WITH EMERGENCY BATTERY BACK UP.							
EL	EXITRONIX	GVEX-U-BP-WB-WH	UNV	N/A	N/A	UNIVERSAL	N/A	THERMOPLASTIC UNIVERSAL EXIT SIGN. GREEN LETTERING ON WHITE BACKGROUND.
	OR APPROVED EQUAL							
NOTES:								
1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK CAPABLE OF PROVIDING 90 MIN. OF EGRESS ILLUMINATION.								
2. FIXTURES BEING CONSIDERED AS EQUIVALENTS MUST BE SUBMITTED FOR APPROVAL NO LESS THAN FIVE DAYS PRIOR TO BID.								

PANEL SCHEDULE					(EXISTING) C											
VOLT/PHASE/WIRE: 120/208V/3PH/4W					AIC RATING:					AIC		MAIN BREAKER:				
MOUNT/ENCLOSURE: SURFACE/NEMA 1					LOCATION:					MAIN LUGS: 250A						
NO	DESCRIPTION	LOAD	AMPS	POLES	A	B	C	POLES	AMPS	LOAD	DESCRIPTION	NO	CT			
1	ELECTRIC WATER HEATER	1000	20	2	1000			3	40	0	EXISTING BREAKER	2				
3	-----	1000	-	-		1000		-	-	0	-----	4				
5	SPACE	0	20	1			0	-	-	0	-----	6				
7	SPACE	0	20	1	0			1	20	0	SPACE	8				
9	SPACE	0	20	1		0		1	20	0	SPACE	10				
11	SPACE	0	20	1			0	1	20	0	SPACE	12				
13	SPACE	0	20	1	0			1	20	0	SPACE	14				
15	SPACE	0	20	1		0		1	20	0	SPACE	16				
17	SPACE	0	20	1			0	1	20	0	SPACE	18				
19	SPARE	0	20	1	540			1	20	540	BREAK ROOM RECEPT	20				
21	SPARE	0	20	1		500		1	20	500	TV	22				
23	SPARE	0	20	1			720	1	20	720	RECEPTION RECEPTICLES	24				
25	SPARE	0	20	1	720			1	20	720	OFFICE 103	26				
27	SPARE	0	20	1		720		1	20	720	OFFICE 102	28				
29	SPARE	0	20	1			720	1	20	720	RECEPTICLES STORAGE 106	30				
31	SPARE	0	20	1	360			1	20	360	RECEPTICLES TELECOMM BOARD	32				
33	SPARE	0	20	1		900		1	20	900	RECEPTICLES STORAGE	34				
35	SPARE	0	20	1			270	1	20	270	RECEPTION LTG.	36				
37	BR COUNTER	180	20	1	650			1	20	470	OFFICE LTG.	38				
39	BR COUNTER	180	20	1		1180		1	20	1000	"ALLSTATE" SIGN	40				
41	FRIDGE	500	20	1			1000	1	20	500	TIMECLOCK	42				
TOTALS					3,270	4,300	2,710									
TOTAL LOAD:		10,280														
LOADS		CONTINUOUS	NON-CONTINUOUS	DEMAND FACTOR/CALCULATION					DEMAND LOAD							
EXISTING	0	0		125% x	0					0						
LIGHTING	740	0		125% x	740	+ 100% x		0				925				
RECEPTACLE	0	6,040		100% x	6040	+ 50% x		0				6,040				
MOTOR	0	0		125% x	0	+ 100% x		0				0				
FIXED HEAT	0	0		100% x	0								0			
A/C	0	0		100% x	0											
KITCHEN EQUIP.	0	0		100 % x	0								0			
MISC	3,500	0		125% X	3500	+ 100% x		0				4,375				
TOTAL DEMAND LOAD:												11,340 VA				
												31 A				
PANEL NOTES:																
EXISTING PANEL IS A SIEMANS CATALOG # P1C42ML250ATS																
** = PROVIDE NEW BREAKER SIZED AS SHOWN THAT IS COMPATIBLE WITH GEAR. INSTALL INTO PANEL IN A EMPTY SLOT.																

EQUIPMENT SCHEDULE																
MARK	DESCRIPTION	ELECTRICAL								STARTER		OVERCURRENT PROTECTION				
		V	PH	KW	HP	MCA	FLA	MOCP	CONDUIT SIZE	WIRE QTY.	WIRE SIZE	GND. SIZE	NEMA SIZE	DISCONNECT SIZE/POLE	FUSE SIZE	REMARKS
EF-1	EXHAUST FAN	120	1	0.08					.75"	2	12	12				2A
EW-H-1	ELECTRIC WATER HEATER	208	1	2				20	0.8	3	12	12		30/2		2A
V/PH/Hz = VOLTAGE / PHASE / HERTZ									MCA = MINIMUM CIRCUIT AMPACITY							
KW = KILOWATTS									FLA = FULL LOAD AMPS							
HP = HORSE POWER									MOCP = MAXIMUM OVERCURRENT PROTECTION LISTED BY THE MANUFACTURER							
									WU = FURNISHED WITH UNIT							
REMARKS:																
1. FUSED DISCONNECT SWITCH									13. DIRECT CONNECTION							
2. NON-FUSED DISCONNECT SWITCH									14. DUCT DETECTOR IN RETURN DUCT							
3. BREAKER IN ENCLOSURE									15. SWITCH WITH LIGHTS							
4. MANUAL STARTER WITH THERMAL OVERLOAD																
5. MOTOR-RATED SWITCH WITHOUT THERMAL OVERLOAD									A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26							
6. MAGNETIC STARTER									B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26							
7. MAGNETIC STARTER/ NON-FUSED DISCONNECT SWITCH									C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26							
8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION									D. FURNISHED, INSTALLED, AND CONNECTED UNDER ANOTHER DIVISION							
9. MAGNETIC STARTER/BREAKER COMBINATION									E. FURNISHED AND INSTALLED UNDER DIVISION 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION							
10. REDUCED VOLTAGE STARTER																
11. VARIABLE FREQUENCY DRIVE																
12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.																



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SCHEDULES
MAIN LEVEL E601