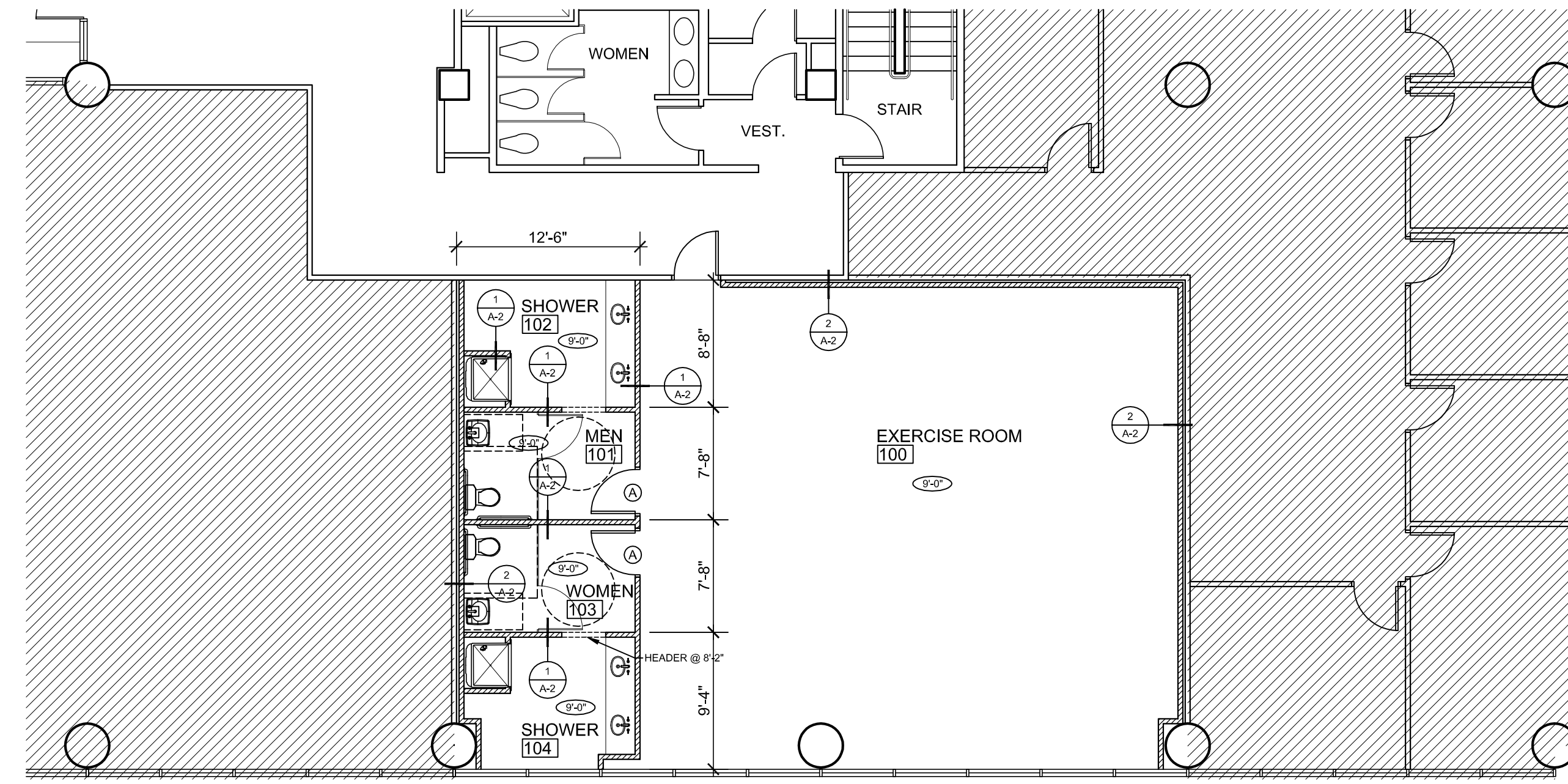


1. ALL WALLS/DOORS ARE EXISTING AS PER EXISTING FLOOR PLAN 1/A-1
2. ALL PLUMBING/MILLWORK IS EXISTING AS PER EXISTING FLOOR PLAN 1/A-1
3. TOILET ROOMS ARE EXISTING IN COMMON AREA CORRIDOR AS PER FLOOR PLAN 1/A-1
4. DRINKING FOUNTAIN IS EXISTING IN COMMON AREA CORRIDOR AS PER FLOOR PLAN 1/A-1

WALL LEGEND	
	EXISTING PARTITION
	EXISTING 1 HR WALL

**1 (EXISTING) FLOOR PLAN**  
1/8" = 1'-0"

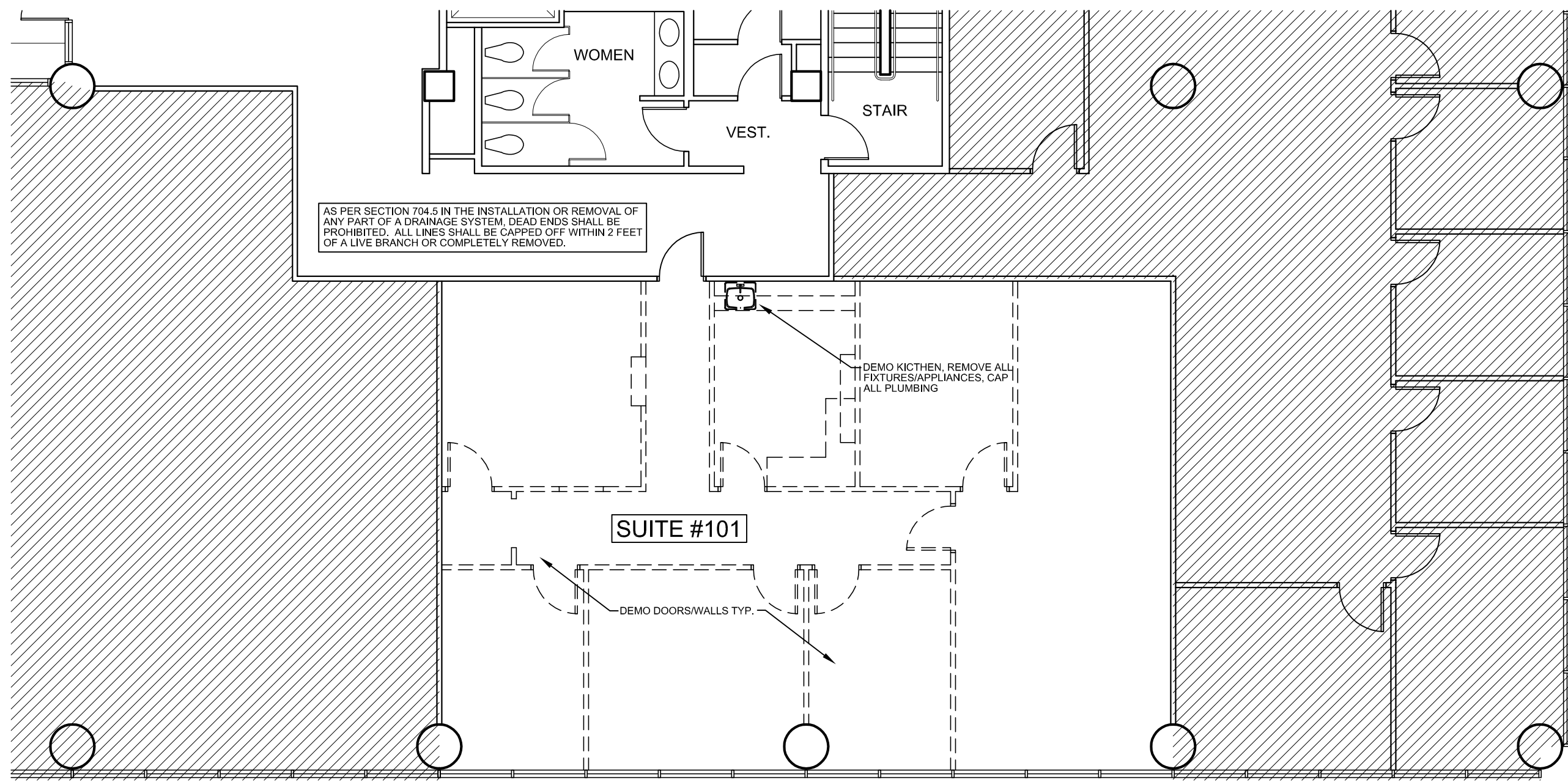


1. PROVIDE NEW PARTITIONS/DOORS AS PER 3/A-1
2. PROVIDE MENS AND WOMENS TOILET/SHOWER ROOMS AS PER 3/A-1
3. PROVIDE FINISHES AS PER 1/A-3
4. ALL TENANT DEMISING WALLS TO REMAIN AS EXISTING
5. PATCH/REPAIR ALL EXISTING WALLS AS NECESSARY

WALL LEGEND	
	EXIST PARTITION TO REMAIN
	NEW METAL STUD PARTITION

AS PER FBC 11-4.1.6(2) THE PATH OF TRAVEL TO THE ALTERED AREA AND THE RESTROOMS, TELEPHONE AND DRINKING FOUNTAIN SERVING THE ALTERED AREA ARE READILY ACCESSIBLE TO AND USEABLE BY INDIVIDUALS WITH DISABILITIES

**3 (PROPOSED) FLOOR PLAN**  
1/8" = 1'-0"

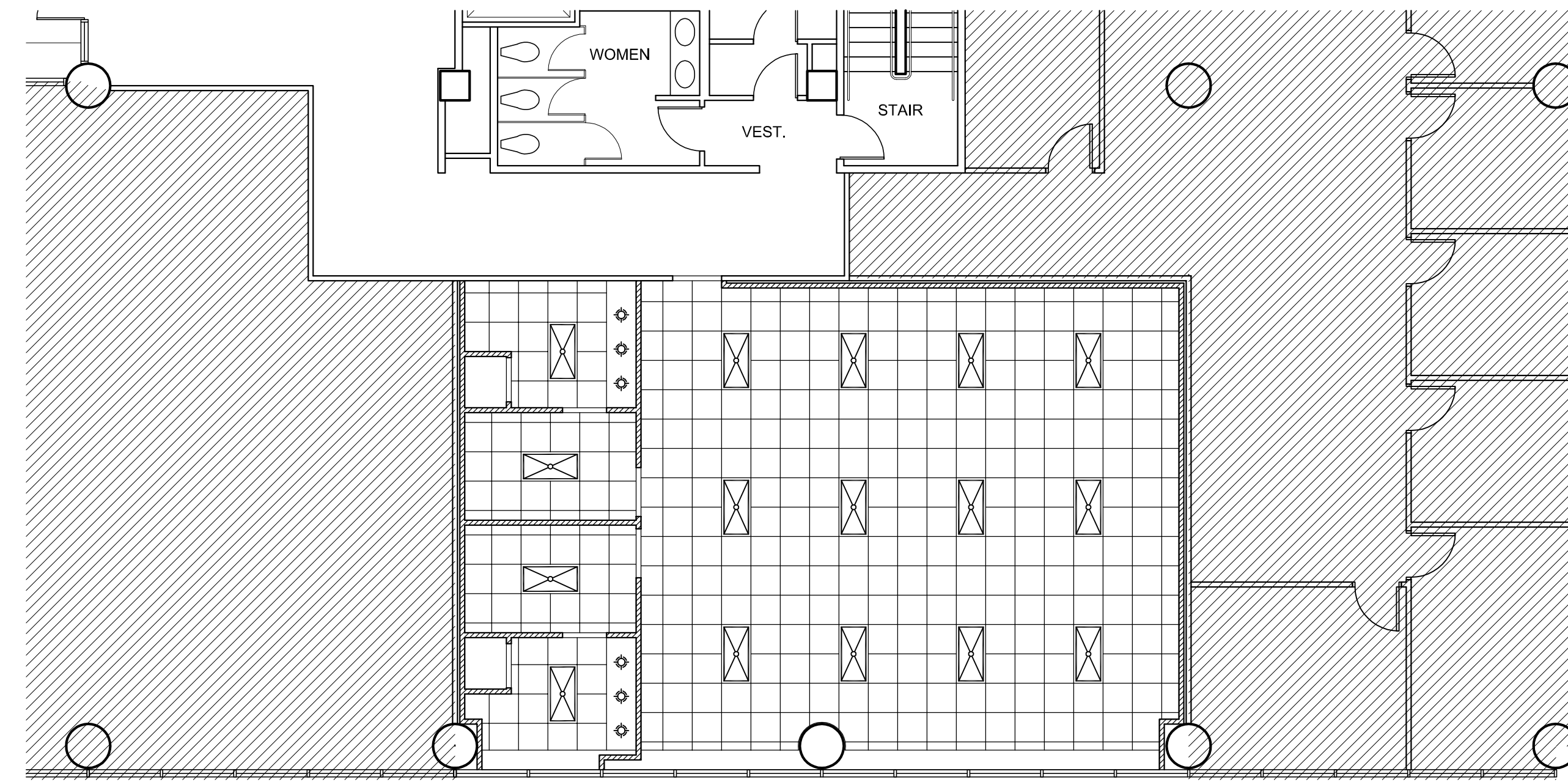


1. DEMO WALLS/DOORS AS PER DEMO FLOOR PLAN 3/A-1. STORE ALL DOORS/HARDWARE FOR REUSE
2. REMOVE ALL KITCHEN CABS/APPLIANCES AND FIXTURES AS PER DEMO PLANS 1/A-3. CAP ALL UNUSED PLUMBING.
3. REMOVE ALL ELECTRICAL WIRING FROM DEMO'D WALLS AND BACK TO THE FIRST JUNCTION BOX. LABEL AND CAP.
4. DEMO CEILING/GRID/LIGHTS AS PER DEMO CEILING PLAN 4/A-1
5. REMOVE ALL ELECTRICAL/DATA WIRING FROM DEMO'D CEILING. CAP BACK TO FIRST JUNCTION BOX

WALL LEGEND	
	EXISTING PARTITION
	EXIST WALLS TO BE DEMO'D

- \* STRUCTURES UNDERGOING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL COMPLY WITH NFPA 241
- \* ACCUMULATIONS OF COMBUSTABLE WASTE AND DUST DEBRIS SHALL BE REMOVED FROM THE STRUCTURE AND ITS IMMEDIATE VICINITY AT THE END OF THE SHIFT OR MORE FREQUENTLY AS NECESSARY FOR SAFE OPERATIONS
- \* EXIT AND ACCESS CORRIDORS ARE TO BE MAINTAINED AND REMAIN CLEAR AND UNOBSTRUCTED
- \* THE MAIN BUILDINGS FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED AND OPERATIONAL AT ALL TIMES

**2 (DEMO) FLOOR PLAN**  
1/8" = 1'-0"



1. PROVIDE NEW CEILING GRID/LIGHTS AS PER PROPOSED CEILING PLAN 4/A-1

WALL LEGEND	
	EXIST PARTITION TO REMAIN
	NEW METAL STUD PARTITION

**4 (PROPOSED) CEILING PLAN**  
1/8" = 1'-0"

REVISIONS

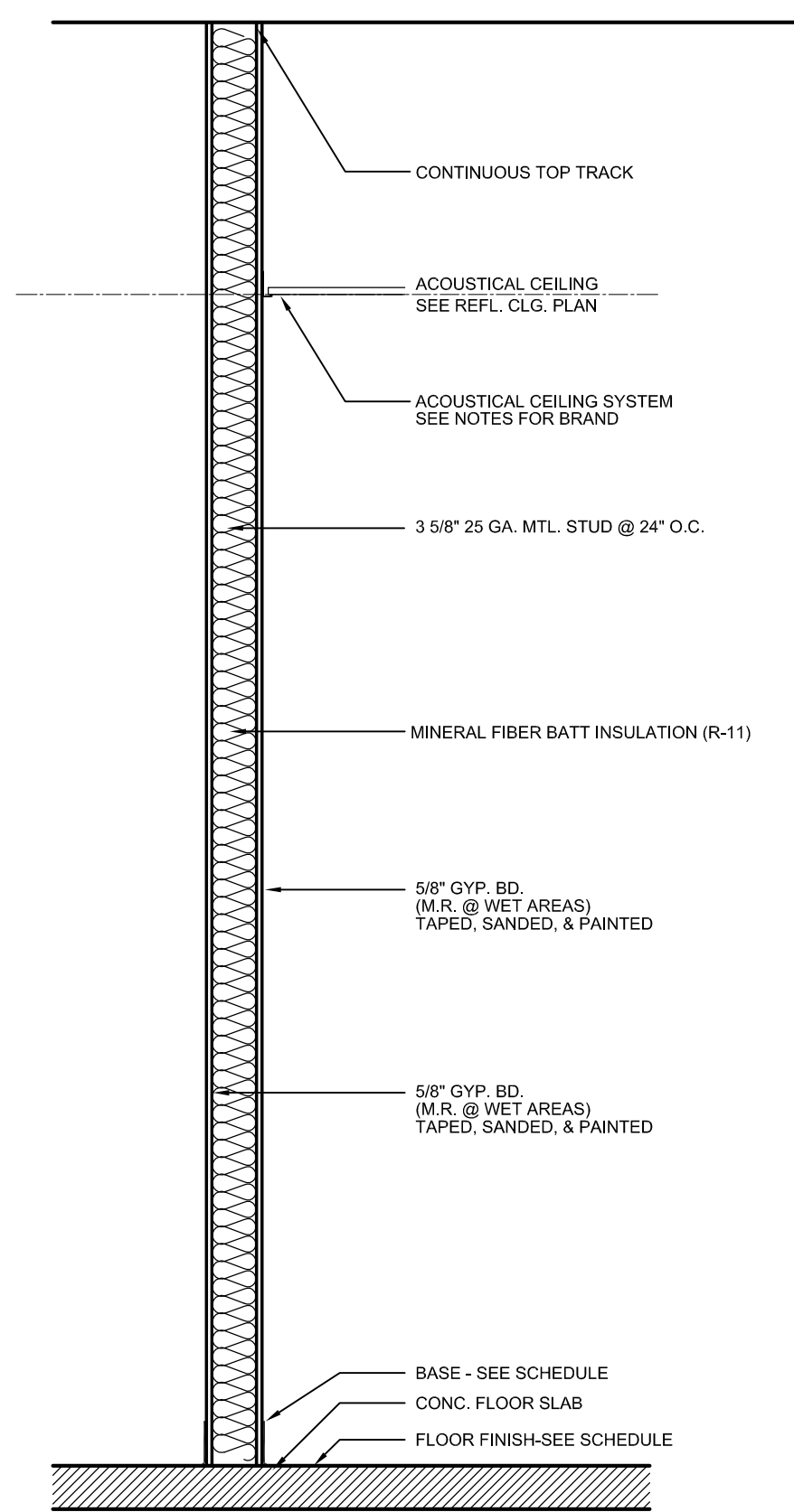
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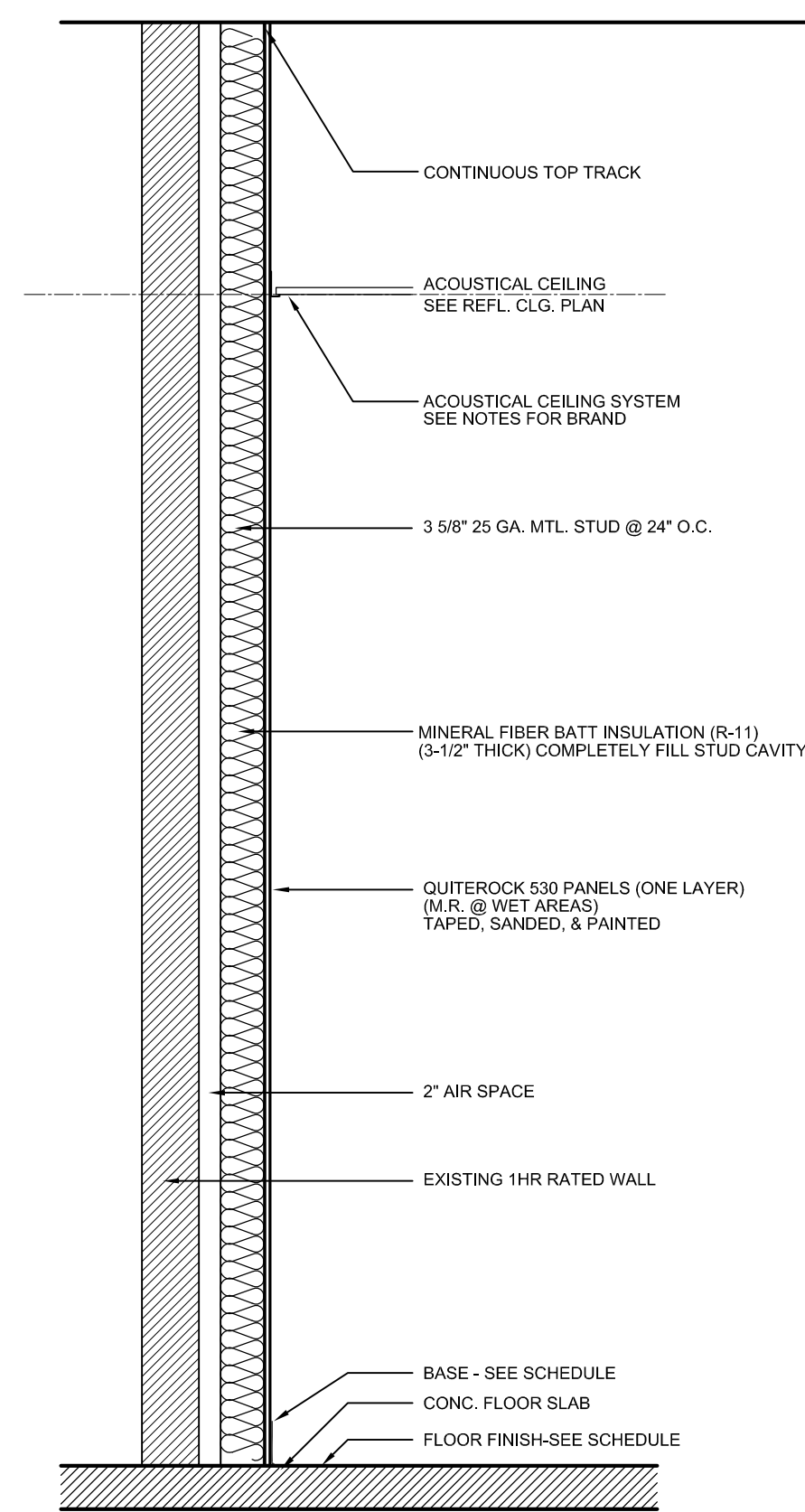
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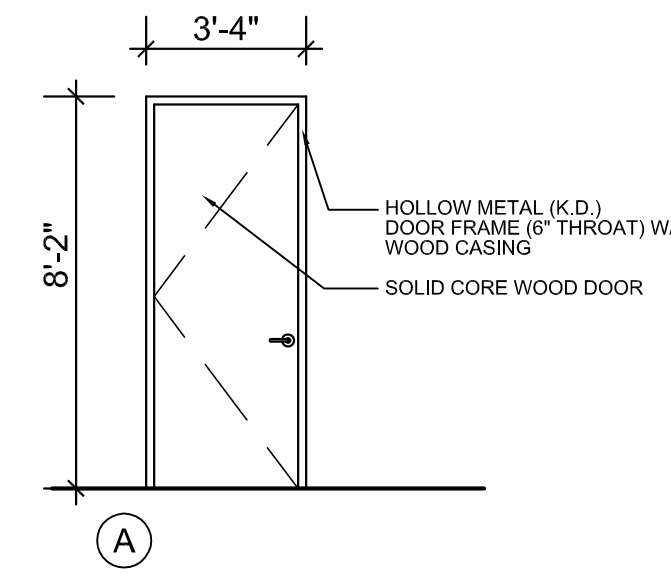
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**1 WALL TYPE (INT. PARTITION)**  
3/4" = 1'-0"



**2 WALL TYPE (INT. PARTITION)**  
3/4" = 1'-0"

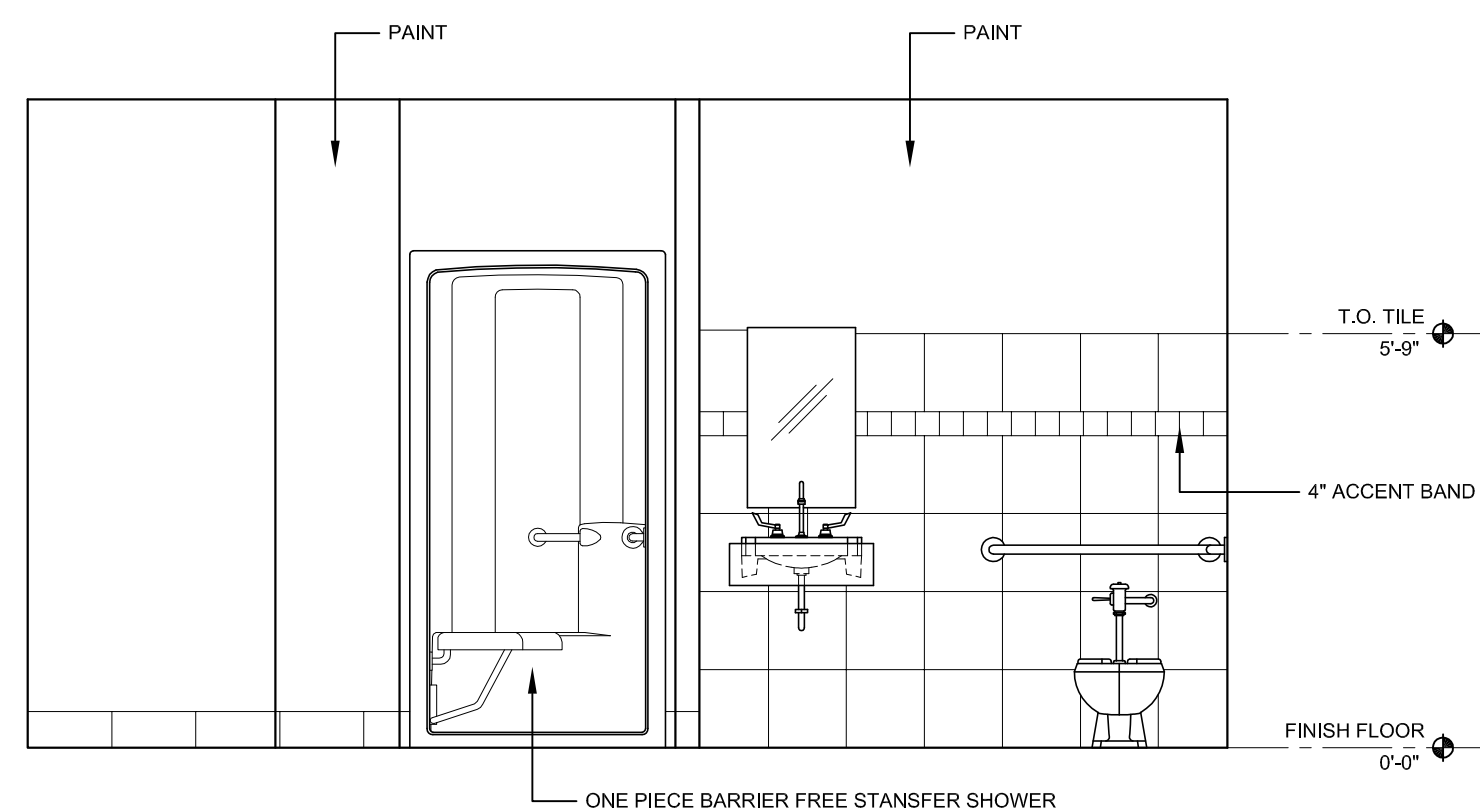


- \* TENANT ENTRY DOORS TO REMAIN AS EXISTING
- \* ALL CLOSERS TO BE ON THE INSIDE OF TENANT SPACE
- \* ALL NEW DOOR HARDWARE TO MATCH BUILDING STANDARD
- \* CONTRACTOR TO VISIT BUILDING TO ESTABLISH BUILDING STANDARDS
- \* ALL DOOR STOPS ARE TO BE FLOOR MOUNTED (NOT WALL MOUNTED)
- \* DOOR HARDWARE IS REQUIRED TO COMPLY WITH FCC 11-4.13.9 FOR ACCESSIBILITY

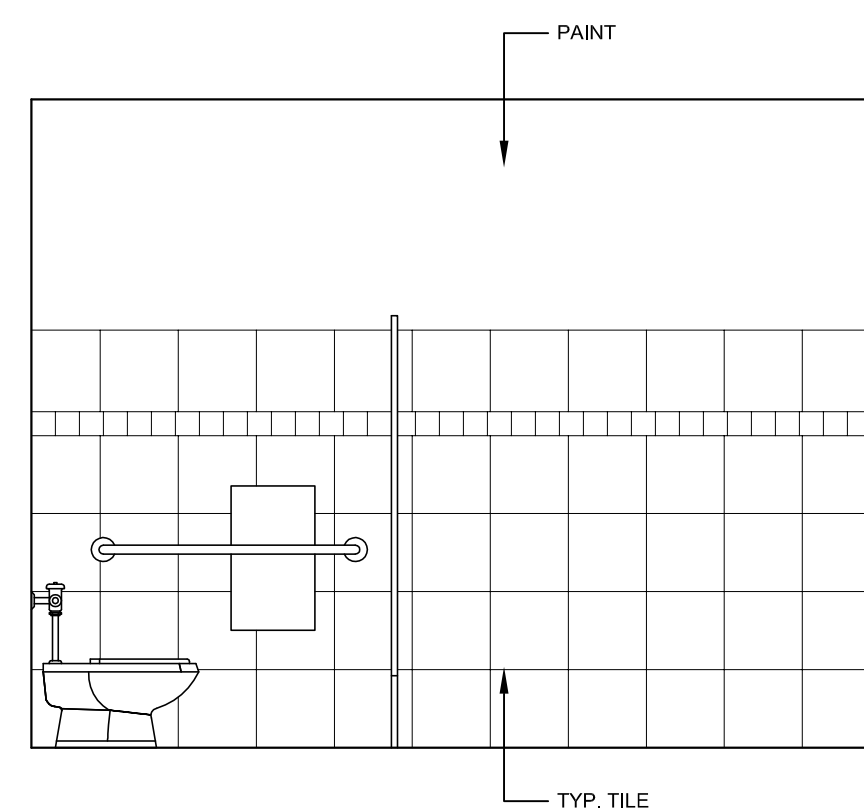
**DOOR SCHEDULE**

MARK	LABEL	DOOR			FRAME	REMARKS		
		MAT	TYPE	SIZE			SIZE/MAT.	
A		WD	FLUSH	3'0"	8'0"	1-3/4"	2" HM	BUILDING STANDARD STAIN PAINT HM FRAME

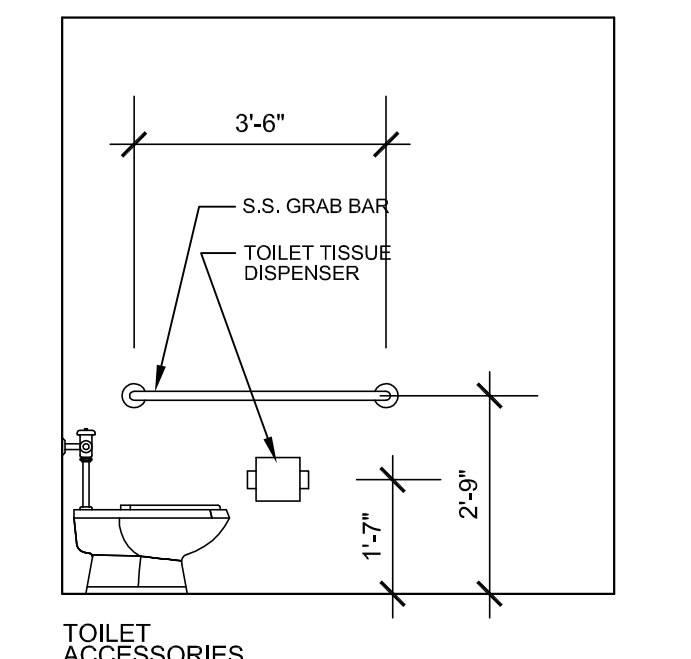
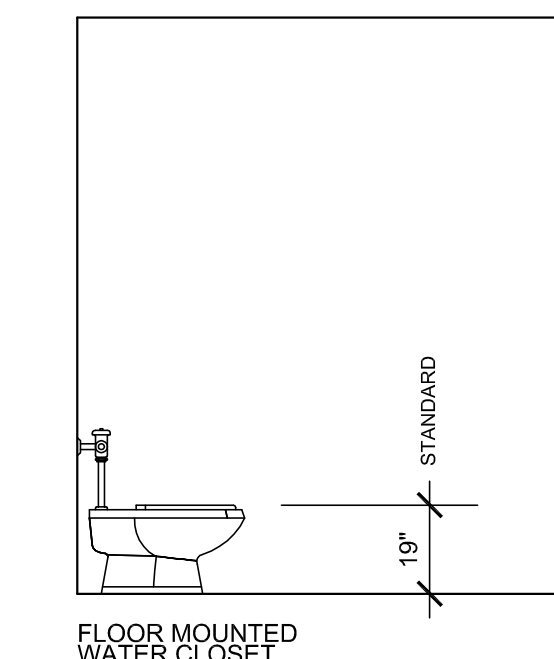
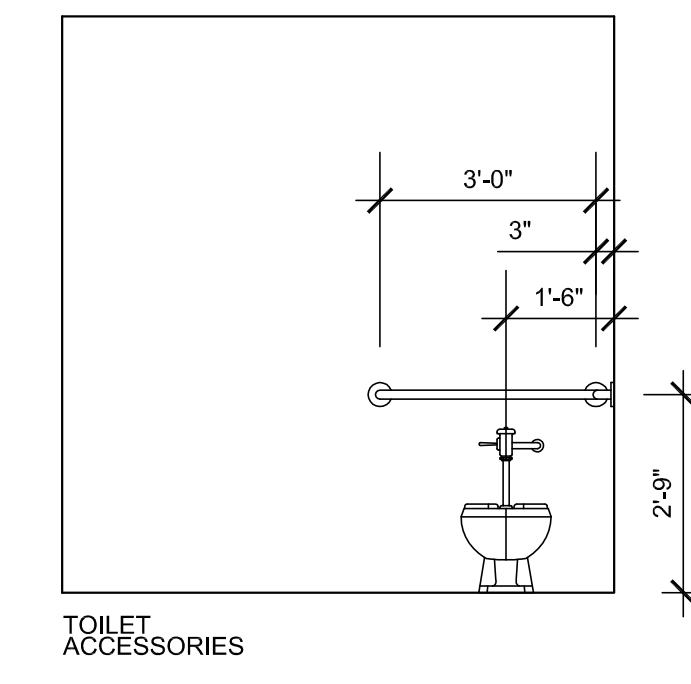
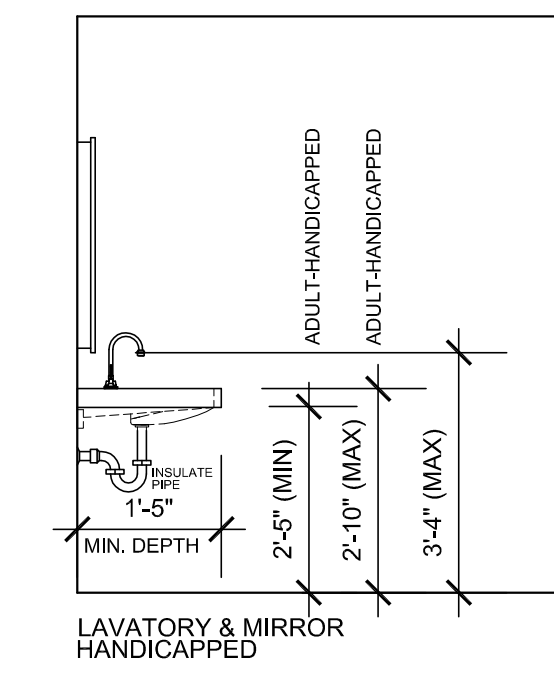
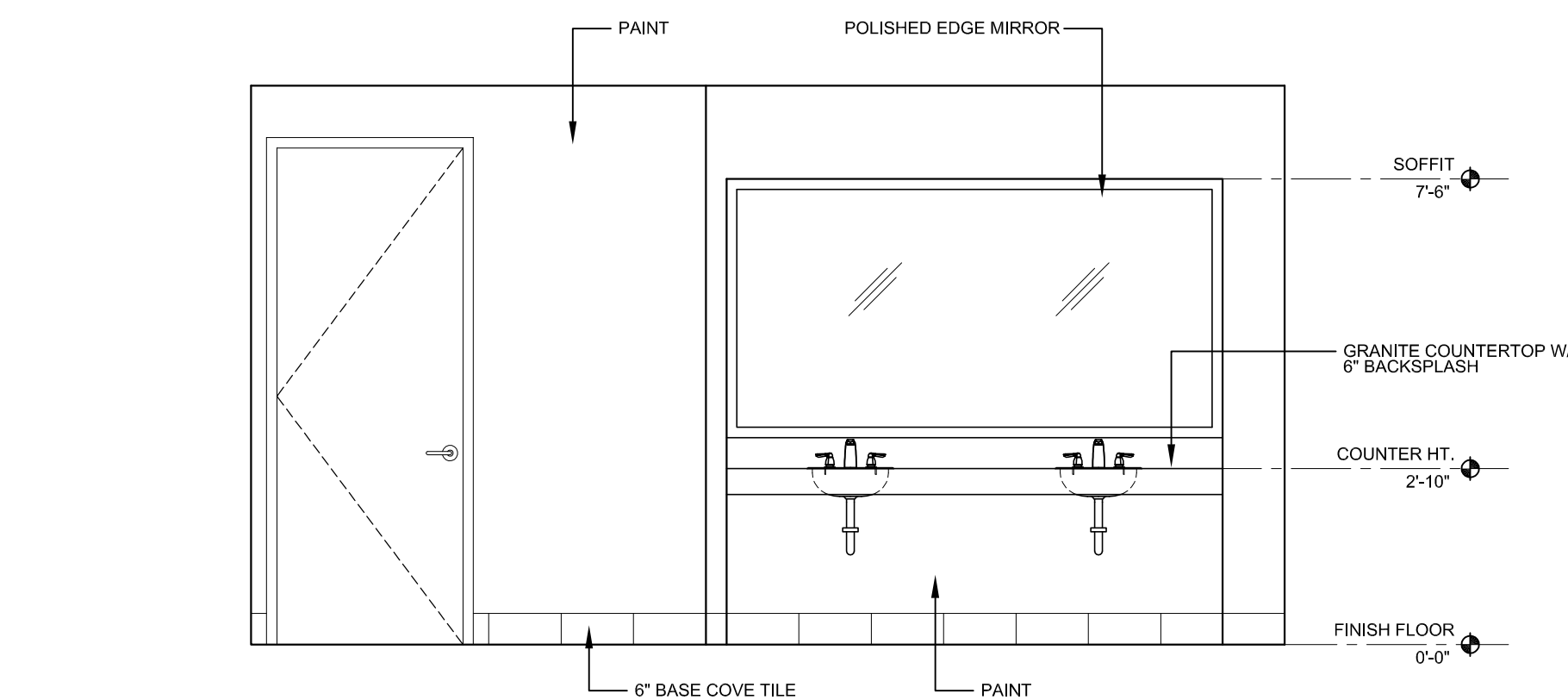
**3 DOORS**  
1/4" = 1'-0"



**4 WOMENS ELEVATIONS**  
3/8" = 1'-0"



**5 MENS ELEVATIONS**  
3/8" = 1'-0"



**6 ACCESSIBILITY**  
3/8" = 1'-0"

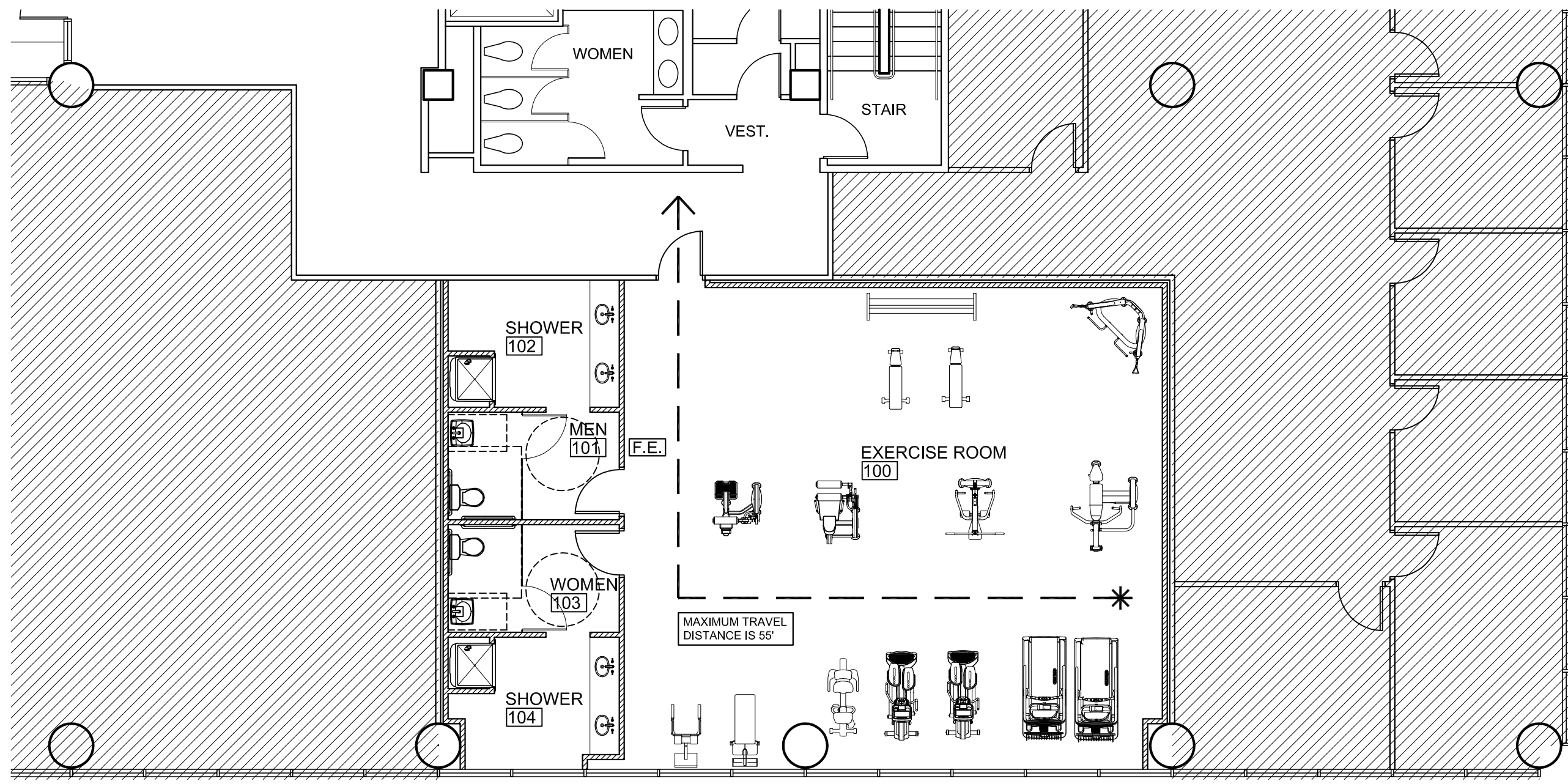
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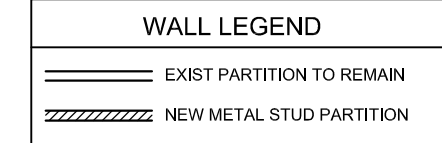
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[F.E.] INDICATES NEW 10 LB. ABC TYPE FIRE EXTINGUISHER WITH HANGER BRACKET

\* ALL INTERIOR WALL AND CEILING FINISHES TO HAVE A MIN CLASS "C" FLAME SPREAD CLASSIFICATION  
 \* ALL INTERIOR FLOOR FINISH SHALL BE NOT LESS THAN CLASS II



1 (LIFE SAFETY) FLOOR PLAN  
 1/8" = 1'-0"

MK	ROOM NAME	FLOOR		BASE		WALLS		CEILING		REMARKS
		MAT	MAT HT	MAT	FIN	MAT	FIN	HT		
100	EXERCISE ROOM	CPT1	VL	4"	GWB	PT	ACT1	9'-6"		
101	MENS TOILET	TILE	TILE/BC	4"	GWB	TILE/PT	ACT2	9'-6"		
102	MENS SHOWER	TILE	BC	4"	GWB	TILE/PT	ACT2	9'-6"		
103	WOMENS TOILET	TILE	TILE/BC	4"	GWB	PT	ACT2	9'-6"		
104	WOMENS SHOWER	TILE	BC	4"	GWB	PT	ACT2	9'-6"		

\* SAMPLES ARE REQUIRED TO BE APPROVED PRIOR TO ORDERING

**EXERCISE ROOM FINISHES:**

CARPET (CPT 1)  
 MANUFACTURER: T.B.D.  
 COLLECTION: T.B.D.  
 COLOR: T.B.D.

VINYL BASE (VL)  
 MANUFACTURER: T.B.D.  
 COLOR: T.B.D.

ACOUSTICAL CEILING TILE (ACT1)  
 MANUFACTURER: ARMSTRONG  
 COLLECTION: CORTEGA BEVEL TEGULAR  
 SELECTION: #2189 (24"x24")  
 9/16" GRID

ACOUSTICAL CEILING TILE (ACT2)  
 MANUFACTURER: ARMSTRONG  
 COLLECTION: DUNE  
 SELECTION: #1777HRC (24"x24")  
 9/16" GRID

**TOILET/SHOWER RM FINISHES:**

FLOOR TILE  
 MANUFACTURER: EMPIRE  
 COLLECTION: COGNAC (UNPOLISHED)  
 COLOR: VS78 (BROWN) 14"x14"

WALL TILE  
 MANUFACTURER: EMPIRE  
 COLLECTION: CROWN DORE (UNPOLISHED)  
 COLOR: VS88 (TAN) 14"x14"

ACCENT TILE  
 \* CONTRACTOR TO VERIFY ACCENT TILE WITH BUILDING ENGINEER

BASE COVE (BC)  
 MANUFACTURER: EMPIRE  
 COLLECTION: CROWN DORE (UNPOLISHED)  
 COLOR: VS88 (TAN) 9"x14"

PAINT (PT)  
 MANUFACTURER: T.B.D.  
 COLLECTION: T.B.D.  
 COLOR: T.B.D.

**PARTITIONS**

MANUFACTURER: NEVAMAR  
 COLLECTION: W-8348V  
 COLOR: COGNAC BIRCH

COUNTERTOPS  
 MANUFACTURER: FERRAZOLI IMPORTS  
 COLLECTION: TRAVERTINE  
 COLOR: ROJO TRAVERTINE (POLISHED)

FAUCETS: MOEN "CHATEAU" MODEL 4945

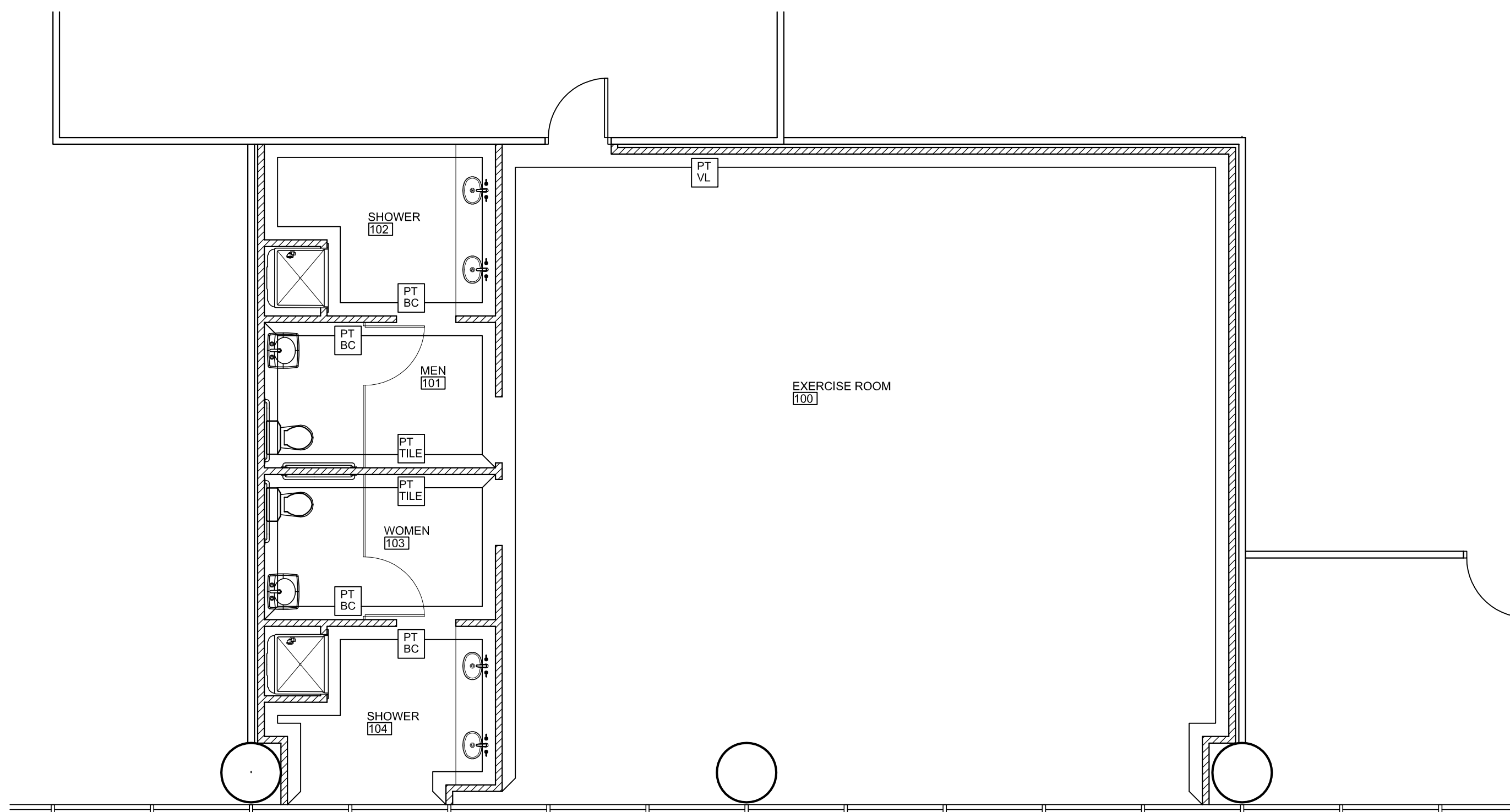
SINKS: KOHLER "BOLERO OVAL LAVATORY" MODEL #K-2611

MIRROR: TO BE POLISHED EDGE (HEIGHT = 4'-0" AND FULL LENGTH OF THE COUNTER) TO BE MOUNTED FLUSH ON BACKSPLASH

NEW BATHROOM ACCESSORIES ARE TO BE "BOBRICK" AND ARE TO MATCH THE BUILDING STANDARD

#5912-11 SURFACE MOUNT UNIT  
 #5921 COMBO UNIT  
 #6326 SOAPS  
 #612-001-36 GRABBER  
 #612-001-42 GRABBER

2 FINISH SCHEDULE



3 WALL COVERING PLAN  
 3/16" = 1'-0"

Bd

birse design inc.

5300 woodland lakes drive  
 palm beach gardens, fl 33418  
 phone: 561-249-4001  
 fax: 772-409-9884  
 AA26001615

ALLEN S BIRSE  
 AR94279

EXERCISE ROOM

GOLDEN BEAR PLAZA  
 11760 US HWY ONE #101  
 PALM BEACH GARDENS, FL  
 PROJECT NUMBER GBP35

REVISIONS

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**MECHANICAL GENERAL NOTES:**

- THESE DRAWINGS ARE DIAGRAMMATIC. ALL OFFSETS, FITTINGS, TRANSITIONS AND ACCESSORIES ARE NOT SHOWN. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL ITEMS REQUIRED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. DO NOT SCALE DRAWINGS FOR INSTALLATION.
- ALL WORK SHALL BE PERFORMED IN A FIRST CLASS WORKMANLIKE MANNER BY LICENSED CONTRACTORS.
- THE CONTRACTOR SHALL OBTAIN AT HIS EXPENSE ALL NECESSARY FEES PERMITS, AND TESTS.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES. NO CONTRACTOR SHALL BID UNLESS FAMILIAR WITH THESE CODES.
- CORRECTION OF DEFECTS TO THIS WORK SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER. REPAIR AND REPLACEMENT FOR DAMAGE CAUSED BY THIS CONTRACTOR SHALL BE MADE PROMPTLY WITHOUT CHARGE TO THE OWNER.
- ALL WORK OF THIS TRADE SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID ANY INTERFERENCES THAT MAY DELAY PROGRESS OF CONSTRUCTION.
- THE CONTRACTOR SHALL INCLUDE THE WORK OF ALL REQUIRED SUB-CONTRACTORS, SUCH AS ELECTRICAL, INSULATING, TEST & BALANCE, ETC., AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- EQUIPMENT SHALL BEAR A U.L. OR OTHER RECOGNIZED LABEL, NAMEPLATES, WIRING DIAGRAMS, AND ENERGY RATINGS AS APPLICABLE.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND ACCESSORIES TO BE READILY ACCESSIBLE FOR SERVICING, TESTING, BALANCING, AND REPLACEMENT.
- THE CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE AGAINST DEFECTS IN ALL MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM ACCEPTANCE, WITH FOUR ADDITIONAL YEARS OF WARRANTY ON COMPRESSORS.
- THE CONTRACTOR SHALL PROVIDE THREE COPIES OF SUBMITTAL DATA, SHOP DRAWINGS, AND AT COMPLETION OF THE PROJECT TWO SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL PROJECT ITEMS.
- PROVIDE ALL CONTROLS, STARTERS, CONTROL WIRING, DISCONNECTS, AND OTHER ELECTRICAL EQUIPMENT AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
- THE HVAC CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, ON SITE, A DETAILED AS-BUILT PLAN SHOWING ACTUAL INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE A NEATLY DRAWN COMPREHENSIVE AS-BUILT SET OF PLANS UPON COMPLETION, WHICH ARE SUITABLE FOR SUBMISSION TO THE BUILDING DEPARTMENT AND TO THE OWNER.
- PRIOR TO ACCEPTANCE BY THE OWNER THE SYSTEMS SHALL BE TESTED AND BALANCED BY THE CONTRACTOR. PROVIDE A WRITTEN REPORT.
- SUPPLY AND INSTALL DUCT MOUNTED SMOKE DETECTORS AS REQUIRED.
- COORDINATE LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS IN THE FIELD WITH LIGHTS AND ARCHITECTURAL ELEMENTS.
- ALL GRILLES TO BE TITUS OR METALLAIRE UNLESS OTHERWISE NOTED, SIZES AS SHOWN ON PLANS, ALUMINUM CONSTRUCTION.
- ALL DUCT WORK SHALL BE BUILT AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS AND LOCAL BUILDING CODES.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- ALL OUTSIDE AIR DUCTWORK SHALL BE SHEETMETAL WITH EXTERIOR R-6 INSULATION. PROVIDE BLANKET TYPE INSULATION IN CONCEALED SPACES, AND BOARD TYPE IN EXPOSED AREAS.
- ALL EXHAUST AIR DUCT SHALL BE GALVANIZED SHEET METAL CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
- FLEXIBLE DUCT, WHERE SHOWN, SHALL BE U.L. CLASS 1, R-6 INSULATION.
- LOW PRESSURE SUPPLY AND RETURN RECTANGULAR DUCTWORK IS RIGID DUCTBOARD, 1 IN. THICK, R-4.2 INSULATION.
- PROVIDE ELBOW TURNING VANES IN ALL RECTANGULAR DUCTS WHERE TURNS ARE GREATER THAN 45 DEGREES.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST FANS.
- VERIFY ALL THERMOSTAT LOCATIONS WITH THE LANDLORD.
- CONDENSATE DRAIN PIPING SHALL BE ABOVE GRADE COPPER DRAIN, WASTE AND VENT FITTINGS. INSULATE ALL CONDENSATE PIPING W/3/4" IMCOA IMCOCK PIPE INSULATION.

**GENERAL DEMOLITION NOTES**

- UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND DUCTWORK IN THE PROJECT AREA WHICH IS NOT INDICATED TO REMAIN, IS TO BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- DEMOLITION WORK IS NOT SPECIFICALLY IDENTIFIED ON THESE PLANS, AND MAY BE DESCRIBED ON THE ARCHITECTS PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL MECHANICAL SYSTEMS SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- PROPERLY REMOVE AND DISPOSE OF ALL HVAC DUCTWORK AND AIR DISTRIBUTION DEVICES WHICH ARE TO BE REMOVED. CONSULT WITH OWNER AND OBTAIN THE OWNER'S APPROVAL PRIOR TO DISPOSAL OF REMOVED MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL PIPING AND DUCTS, NEW OR EXISTING, WITHIN THE PROJECT AREA, ARE PROPERLY SUPPORTED.
- ALL OCCUPIED SPACES ARE TO REMAIN OPERATIONAL DURING BUSINESS HOURS THROUGHOUT THE DEMOLITION AND CONSTRUCTION PERIOD. COORDINATE ALL WORK AS DESCRIBED IN THE ARCHITECTS DOCUMENTS.

**SYMBOL LEGEND**

- EQUIPMENT AS NOTED
- EXISTING EQUIPMENT AS NOTED
- SUPPLY AIR DIFFUSER AS NOTED
- RETURN/TRANSFER GRILLE AS NOTED
- DUCTWORK AS NOTED
- EXISTING DUCTWORK TO REMAIN
- DUCT TRANSITION
- TYPE B FIRE DAMPER W/ACCESS DOOR.
- MANUAL VOLUME DAMPER
- THERMOSTAT AS NOTED
- FLEXIBLE DUCT, U.L. CLASS 1
- CONNECTION TO EXISTING EQUIPMENT
- TAKE-OFF WITH VOLUME DAMPER FOR FLEXIBLE DUCT

**ABBREVIATIONS**

- VAV VARIABLE AIR VOLUME
- S/A SUPPLY AIR
- R/A RETURN AIR
- O/A OUTSIDE AIR
- E/A EXHAUST AIR
- CFM CUBIC FEET PER MINUTE
- MVD MANUAL VOLUME DAMPER (OPPOSED BLADE TYPE).
- FD FIRE DAMPER
- AHU AIR HANDLING UNIT
- CU CONDENSING UNIT
- E EXISTING
- R RE-LOCATE

THE CEILING SPACE THROUGHOUT THIS PROJECT IS A RETURN AIR PLENUM. NO COMBUSTIBLE OR TOXIC MATERIALS ARE ALLOWED ABOVE THE CEILING.

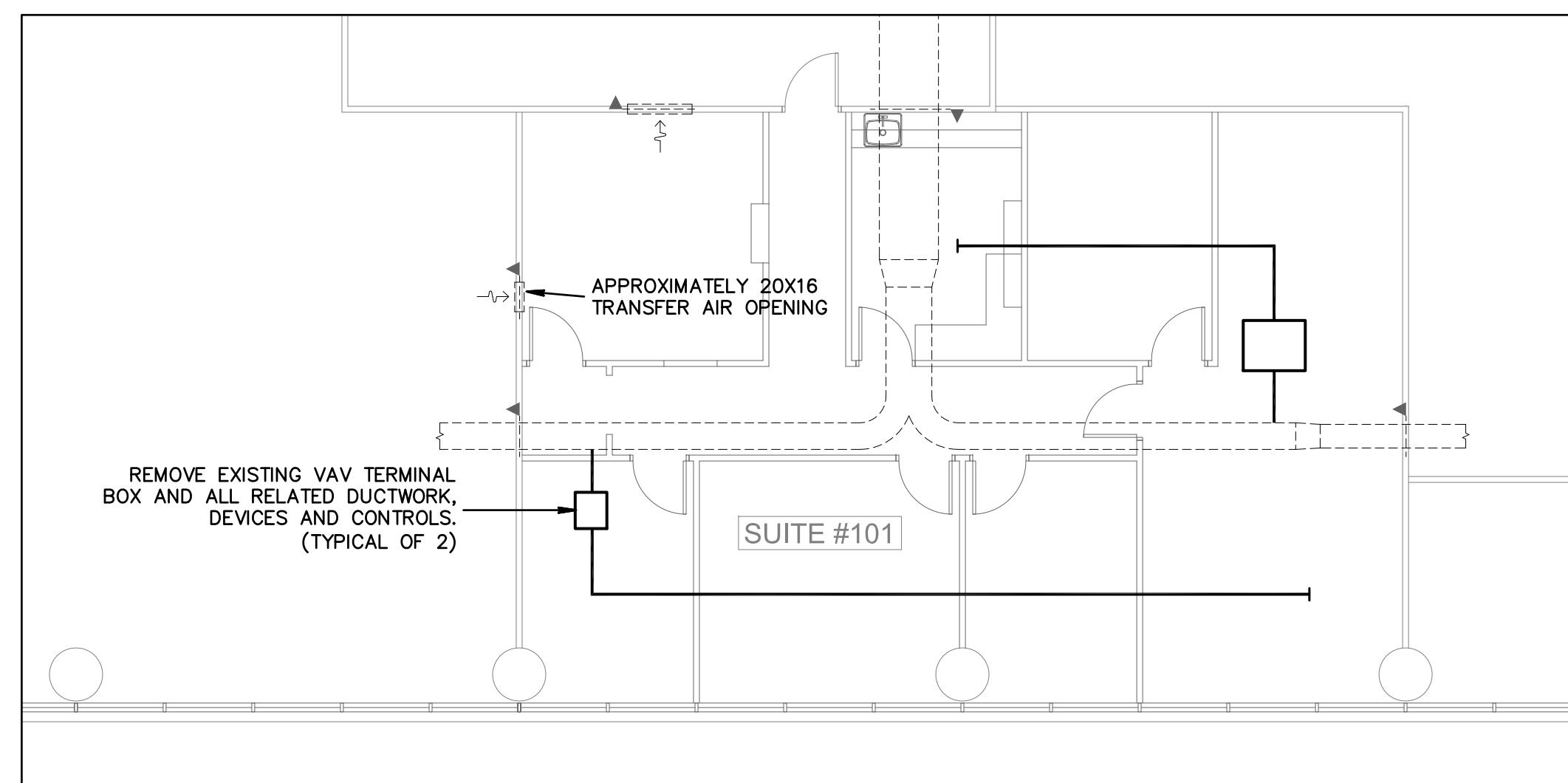
**OUTSIDE AIR CALCULATIONS**

AREA TYPE	HEALTH CLUB
SQUARE FEET OF AREA	1,200
CFM/SQ.FT. REQUIRED	0.06
OCCUPANTS/1000 SQ.FT.	10
TOTAL OCCUPANTS	12
CFM/PERSON REQUIRED	20
CFM REQUIRED	312

ABOVE PER ASHRAE 62.1, 2007

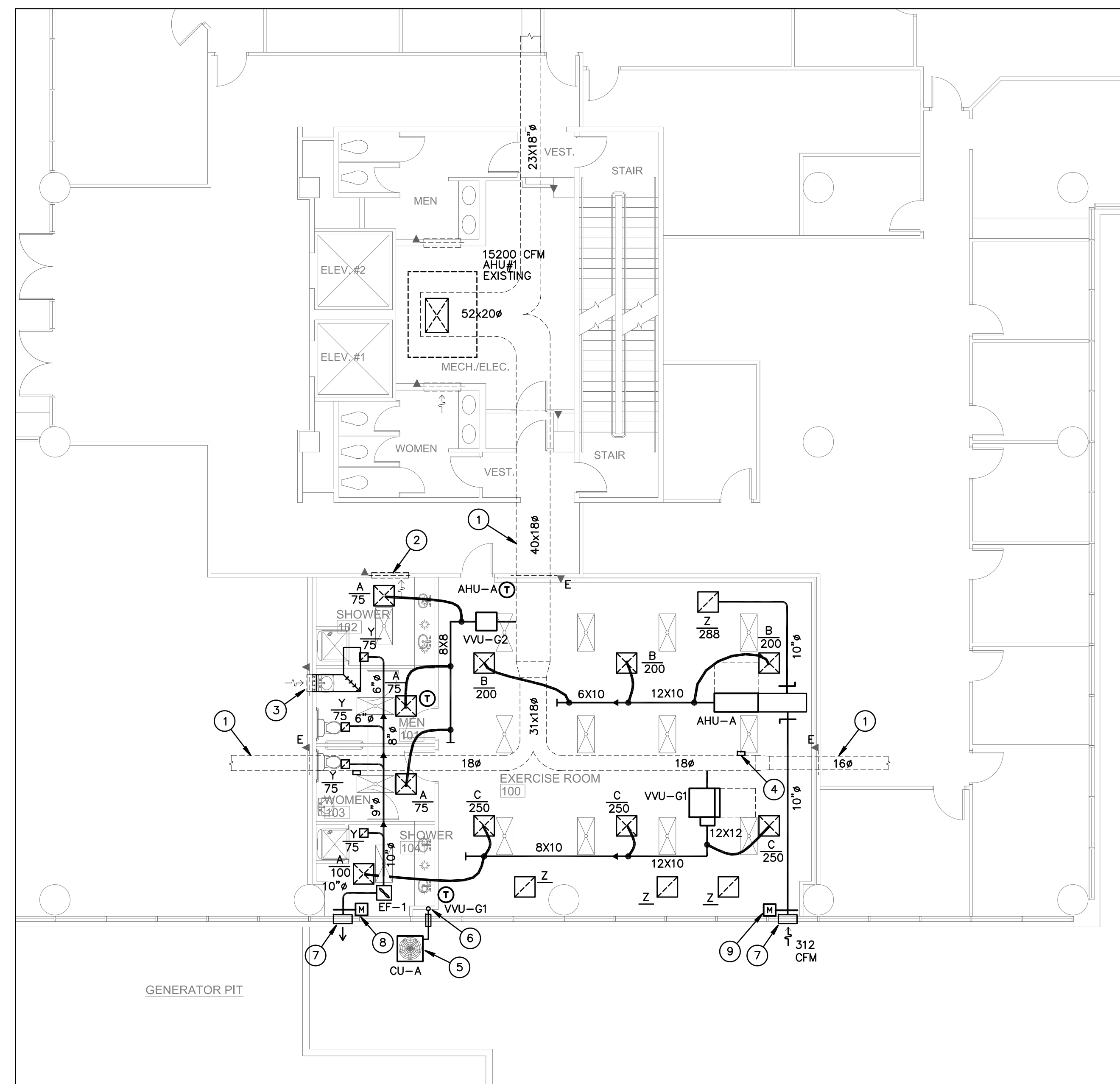
**DRAWING KEYNOTES:**

- EXISTING MAIN SUPPLY AIR DUCT TO REMAIN AS IS.
- EXISTING MAIN RETURN AIR OPENING TO REMAIN AS IS.
- EXISTING R/A TRANSFER OPENING ABOVE CEILING, WITH FIRE DAMPER, TO REMAIN. PROVIDE SECURITY BARS AND DUCTBOARD SOUND ATTENUATION BOOT AS SHOWN. (DUCT SIZE TO MATCH OPENING, FIELD VERIFY EXACT SIZE)
- PROVIDE SHEETMETAL CAP AND SEAL TAKE-OFF IN MAIN SUPPLY AIR DUCT AFTER DEMOLITION (TYPICAL).
- AIR COOLED CONDENSING UNIT ON GROUND BELOW, FIELD VERIFY EXACT LOCATION AND COORDINATE WITH LANDLORD.
- REFRIGERANT PIPING UP FROM GARAGE LEVEL BELOW
- 18X18 LOUVER ABOVE CEILING, VERIFY SPECIFICATION AND MOUNTING DETAILS WITH ARCHITECT.
- MOTORIZED EXHAUST AIR DAMPER TO BE INTERLOCKED WITH EXHAUST FAN FOR SIMULTANEOUS OPERATION.
- MOTORIZED OUTSIDE AIR DAMPER TO BE INTERLOCKED WITH AHU-A FAN FOR SIMULTANEOUS OPERATION.



**EXISTING HVAC FLOOR PLAN**

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



**PROPOSED HVAC FLOOR PLAN**

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

**Bd**

birse design inc.

5300 woodland lakes drive  
palm beach gardens, fl 33418  
phone 561-949-4001  
fax 772-403-9884  
AAC26001615

**EXERCISE ROOM**

GOLDEN BEAR PLAZA  
11760 US HWY ONE #101  
PALM BEACH GARDENS, FL

PROJECT NUMBER GBP35

**REVISIONS**

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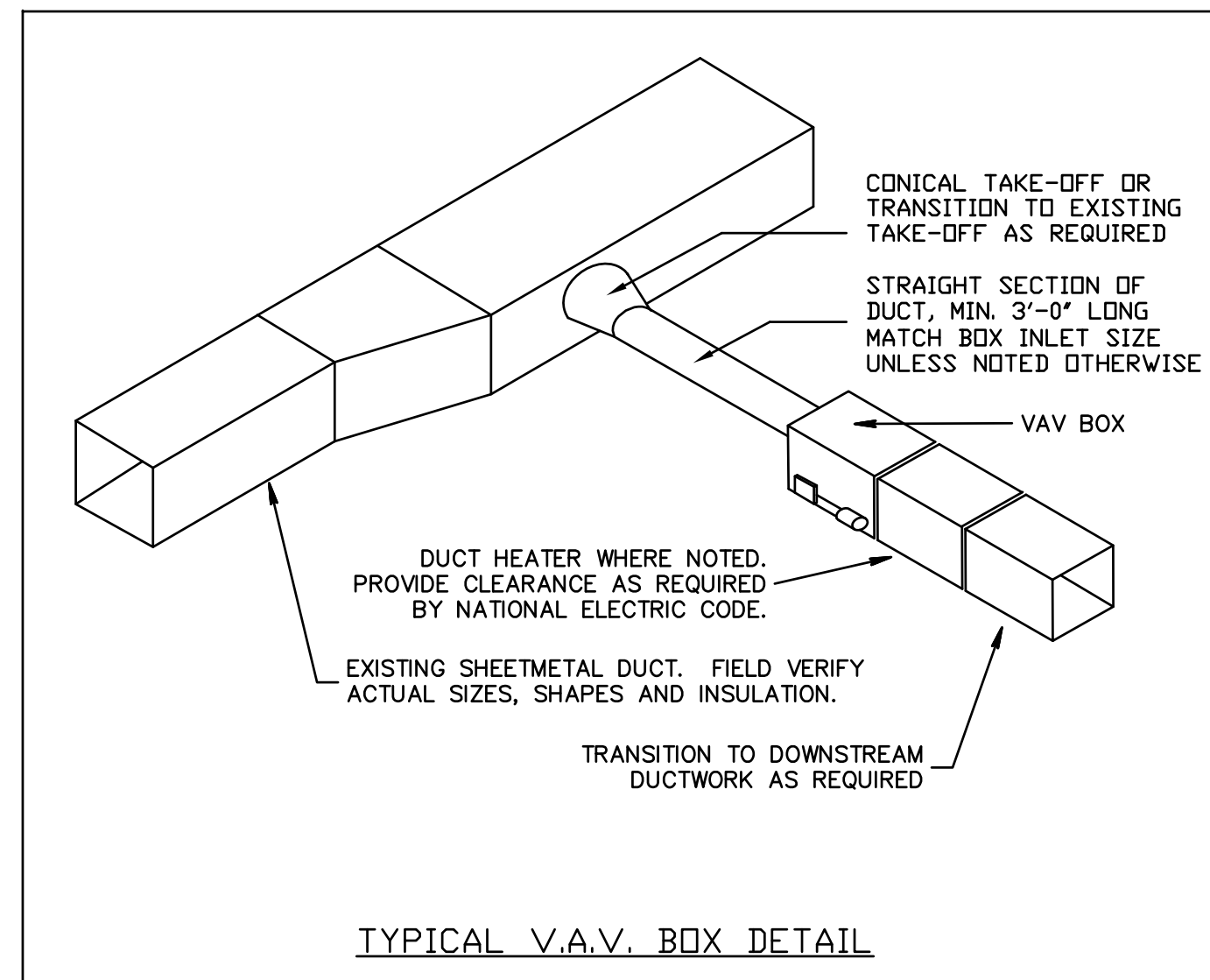
PROJ.# 11-032  
Gilman & Associates, Inc.  
MECHANICAL & ELECTRICAL ENGINEERS  
1550 W. PALM BEACH BLVD., SUITE 200  
LAKES WORTH, FL 33460 P.A.# 0007078  
(561) 582-0210 Fax (561) 582-8212  
RONALD D. GILMAN P.E. #379383

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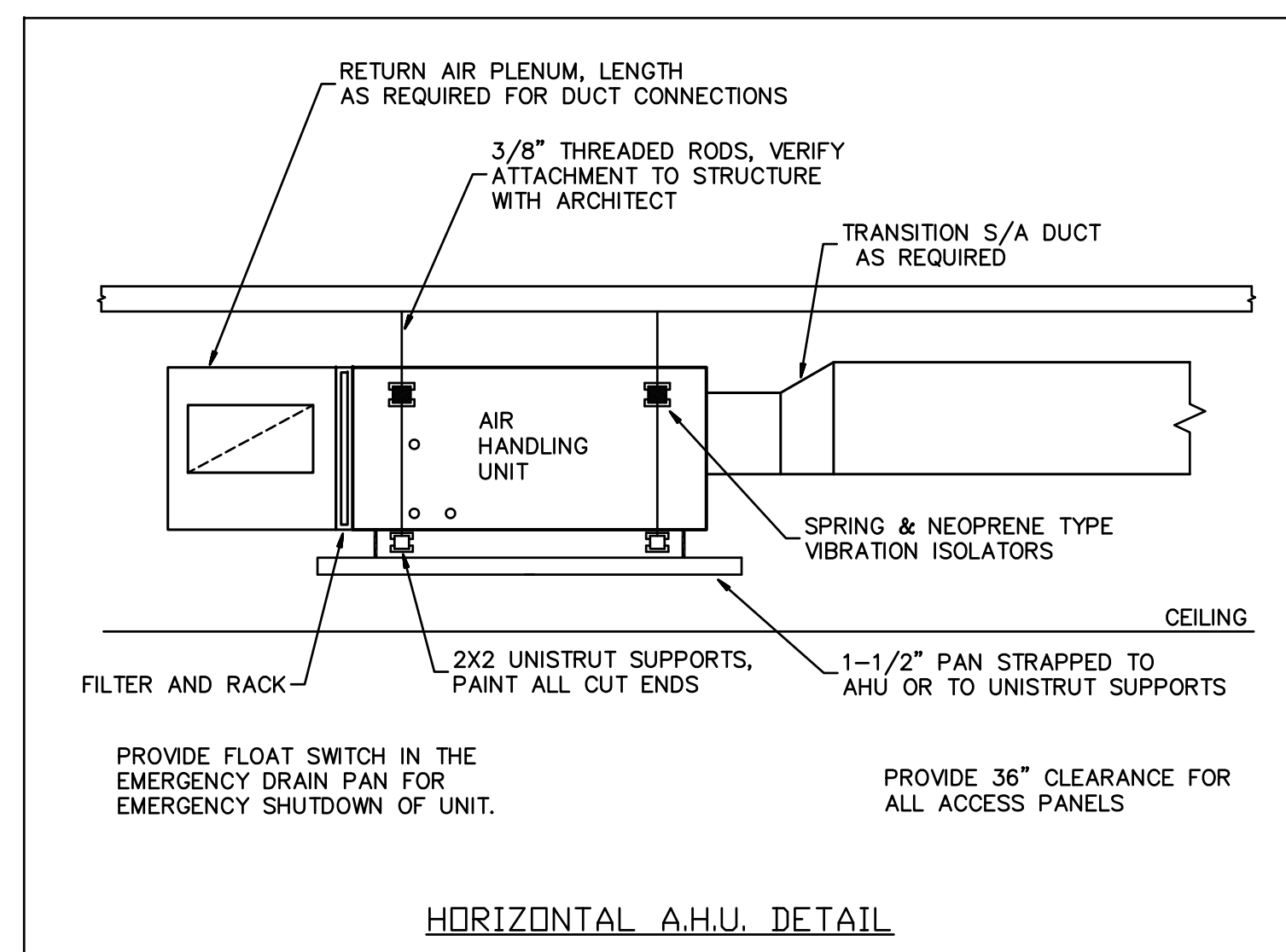
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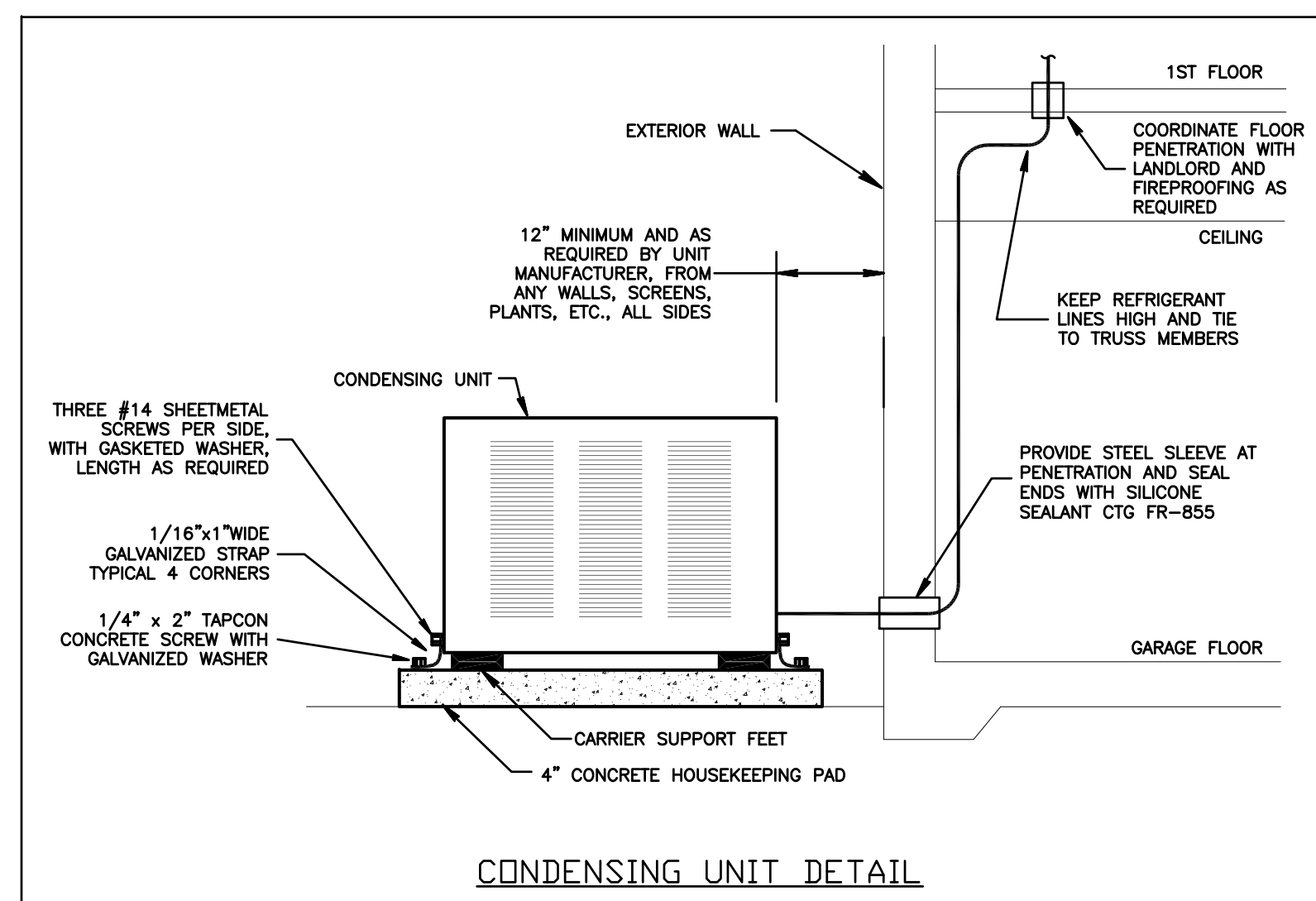
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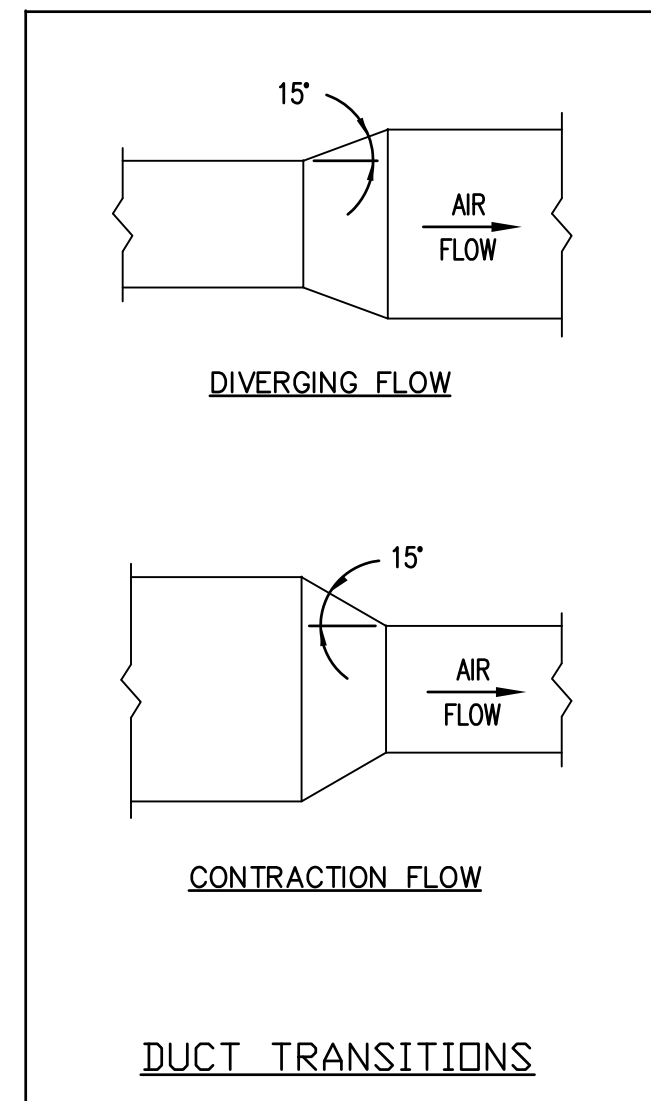
TYPICAL V.A.V. BOX DETAIL



HORIZONTAL A.H.U. DETAIL

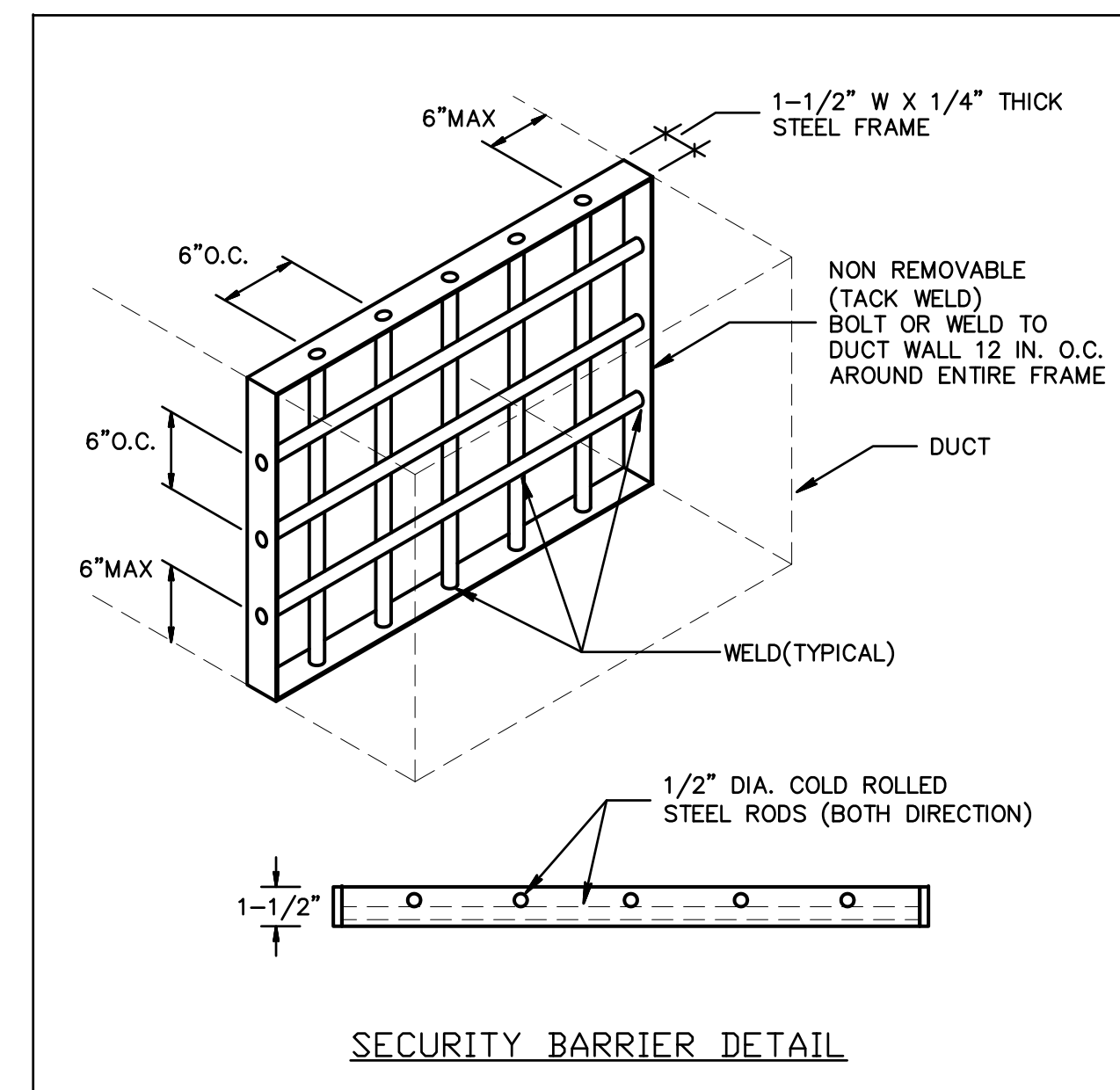


CONDENSING UNIT DETAIL



DUCT TRANSITIONS

FAN SCHEDULE	
MARK	EF #1
TYPE	IN-LINE
SERVICE	TOILETS
MANUFACTURER	GREENHECK
MODEL NO.	CSP-A410
CFM	300
S.P.	0.38
HP	135 WATTS
VOLT-PH-HZ	120-1-60
DRIVE	D
MOTOR R.P.M.	-
FAN R.P.M.	1000
WEIGHT (LBS)	36
SONES	2.0
ROOF OPENING	-
NOTES	1
NOTES	
FAN IS TO BE CONTROLLED BY THE EXISTING BUILDING MANAGEMENT SYSTEM. VERIFY ALL REQUIREMENTS WITH THE BMS PROVIDER AND INCLUDE IN THE BID. SEE NOTE #4 IN THE VAV SCHEDULE, WHICH SHALL APPLY TO THE EXHAUST FAN EF-1.	



SECURITY BARRIER DETAIL

SPLIT SYSTEM SCHEDULE

AIR HANDLING UNIT										AIR COOLED CONDENSING UNIT										SYSTEM DATA							
MARK	MODEL NO.	MANUF.	SUPPLY CFM	FAN FLA	HP	DIM. (IN) HXWXL	MCA	MOCP	ELECTRICAL VOLTS-PH-HZ	HEATER KW	WT LBS	MARK	MODEL NO.	DIM. (IN) HXWXL	COMPRESSOR QTY.	FLA	FAN QTY.	FLA	ELECTRICAL VOLTS-PH-HZ	MCA	FUSE LBS	WT LBS	CAPACITY TMBH	SEER (EER)	CONTROL		
A	FV4CNF003	CARRIER	600	4.3	3/4	21X22X54	5.4	15	208/1/60	-	150	A	24AP4724	39X31X31	1	2	10.3	1	0.7	208/1/60	13.6	20	237	27.0	13.2	16.5	THERMOSTAT & HUMIDISTAT

SPLIT SYSTEM NOTES:

- OUTSIDE AIR DESIGN CONDITIONS: 91°FDB/79°FWB. SYSTEM CAPACITY SHOWN IS AT 82°FDB/72°FWB
- PROVIDE A/C UNITS WITH COOLING AND DEHUMIDIFYING WALL MOUNT CARRIER INFINITY CONTROLLER
- SIZE AND RUN REFRIGERANT PIPING PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
- PROVIDE PROPER VIBRATION ISOLATORS PER ISOLATION MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE BUILT-IN DISCONNECT WITH AIR HANDLING UNIT.
- INSULATE REFRIGERANT SUCTION LINES WITH 3/4" FIRE RETARDANT ARMAFLEX.
- INSTALL FACTORY FILTER DRYER AND STRAINER IN REFRIGERANT LIQUID LINES.
- PROVIDE THERMOGUARD FIELD APPLIED FIN-GUARD COATING ON CONDENSER COILS.
- WALL MOUNT CARRIER STANDARD FILTER RACK UPSTREAM OF R/A OPENING FOR EASY FILTER REPLACEMENT.
- AIR HANDLING UNIT HAS MODULATING ECM FAN MOTOR.
- CONDENSING UNIT HAS 2 SPEED SCROLL COMPRESSORS WITH CRANKCASE HEATER.
- PROVIDE CARRIER HARD-SHUTOFF TXV, COMPRESSOR START ASSIST KIT, AND CONDENSING UNIT SUPPORT FEET.
- AHU FAN MOTOR STARTER IS TO BE INTERLOCKED WITH A CONTACT CLOSURE FROM THE BUILDING MANAGEMENT SYSTEM. SEE NOTE #4 IN THE VAV BOX SCHEDULE, WHICH SHALL APPLY TO THE SPLIT SYSTEM.

VAV TERMINAL BOX SCHEDULE

MARK	MANUFACTURER	MODEL NO.	INLET	CFM MAX	CFM MIN	FAN CFM	HEATING FAN HP	KW	STEP	VOLT-PH-HZ	NOTES
VVU-G1	CARRIER	45M-3	8"φ	850	0	600	1/10	5	1	277-1-60	1 THRU 5
VVU-G2	CARRIER	35E	5"φ	225	100	-	-	-	-	277-1-60	1 THRU 4

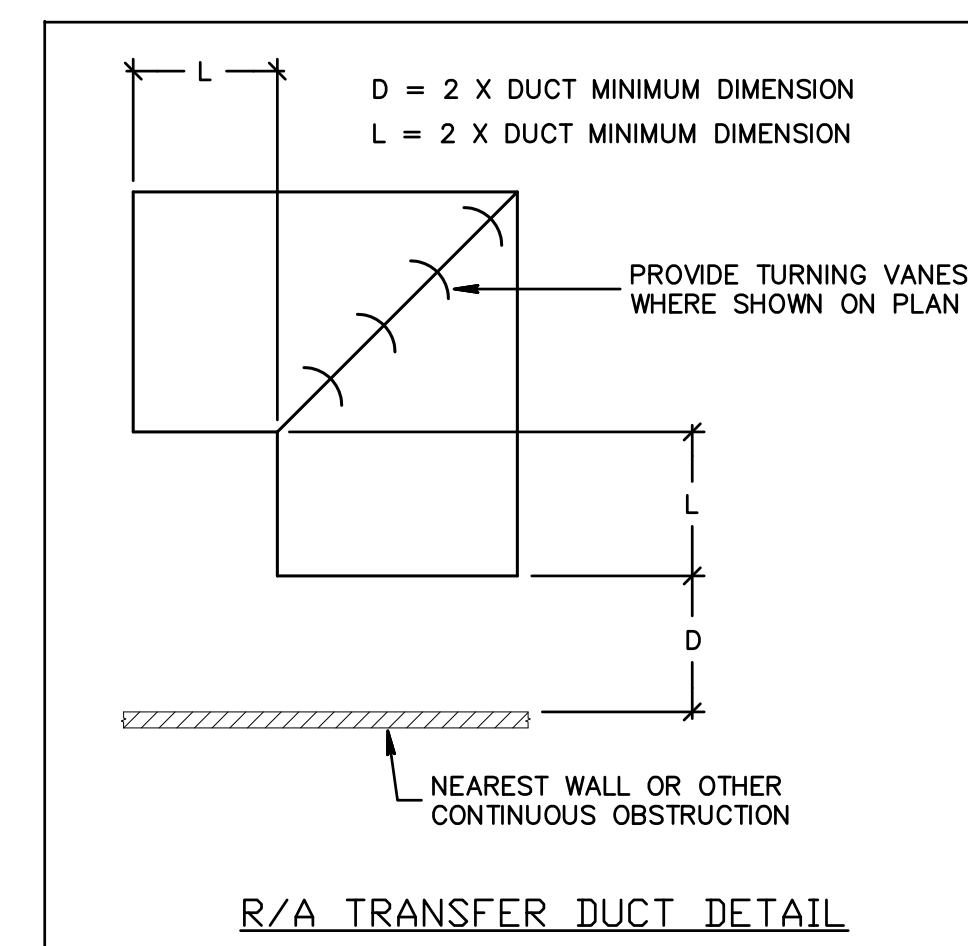
SCHEDULE NOTES

- PROVIDE FIELD MOUNTED ALERTON VAV-SD CONTROLLER COMPATIBLE WITH EXISTING BUILDING MANAGEMENT SYSTEM PROVIDE ELECTRIC ACTUATOR COMPATIBLE WITH DDC CONTROLLER AND TRANSFORMER AS REQUIRED.
- PROVIDE ALERTON BACTALK MICROTOUCH WALL MOUNTED ROOM TEMPERATURE SENSOR/THERMOSTAT WITH EXTERNAL SETPOINT ADJUSTMENT.
- TRANSITION FROM INLET SIZE TO SUPPLY DUCT SIZE AS SHOWN ON FLOOR PLAN. PROVIDE SUPPLY DUCT SIZED TO MATCH VAV BOX INLET UNLESS SHOWN OTHERWISE.
- AIR CONDITIONING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL'S, CONTROL WIRING & CONDUIT, POWER WIRING AND CONDUIT, AND ALL OTHER ITEMS NECESSARY FOR COMPLETE INSTALLATION AND CONTROL OF TERMINAL BOXES. SOFTWARE PROGRAMMING MODIFICATIONS OF THE EXISTING BUILDING MANAGEMENT SYSTEM IS TO BE PROVIDED AS DIRECTED BY THE BUILDING MANAGEMENT COMPANY FOR EACH TERMINAL BOX. FIELD VERIFY SCOPE OF WORK AND COORDINATE WITH THE BUILDING MANAGEMENT COMPANY PRIOR TO BID.
- PROVIDE FACTORY SINGLE-STAGE HEATER, WITH COMPLETE CONTROLS, MERCURY CONTACTORS, INTERLOCKING DOOR AND FAN, FUSED DISCONNECT SWITCH, U.L. LISTED AND LABELED.

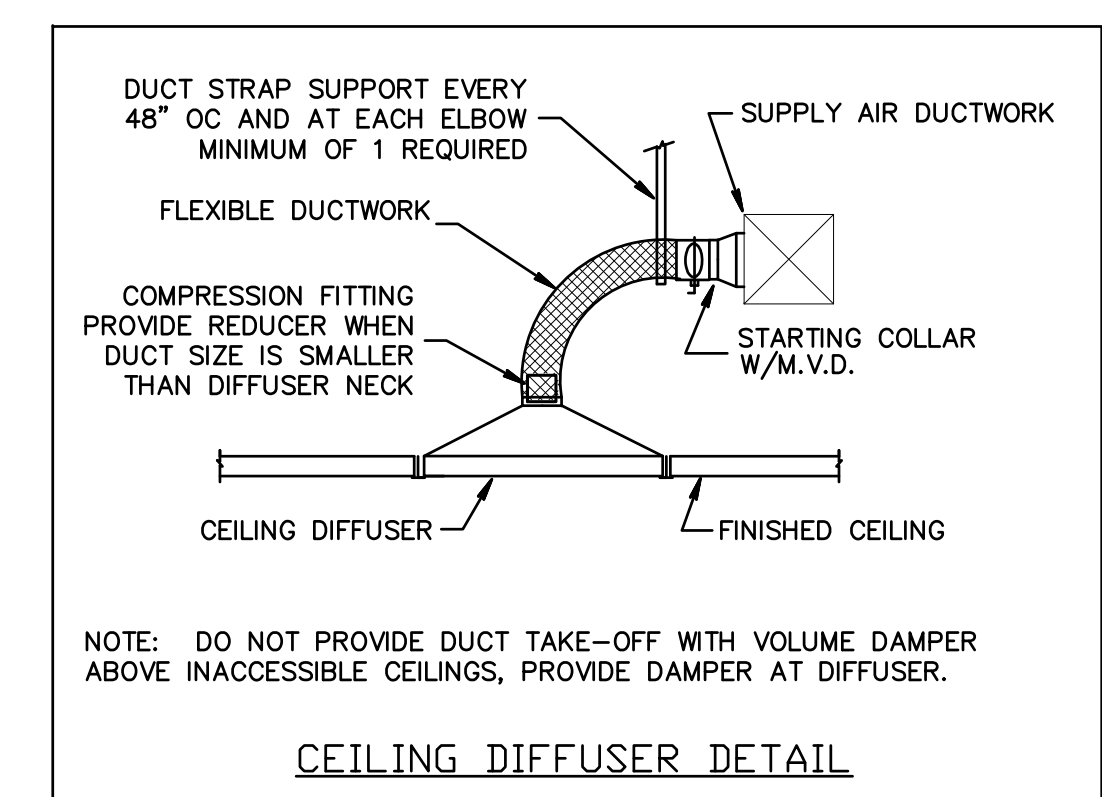
AIR DISTRIBUTION SCHEDULE

MARK	MAKE	MODEL	SIZE	NECK	MATERIAL	BORDER TYPE	MOUNTING TYPE	DAMPER	THROW	FINISH
A	TITUS	PAS-AA	24X24	6"φ	ALUMINUM	3	LAY-IN	AG-100	4 WAY	WHITE
A1	TITUS	PAS-AA	12X12	6"φ	ALUMINUM	1	SURFACE	AG-100	4 WAY	WHITE
B	TITUS	PAS-AA	24X24	8"φ	ALUMINUM	3	LAY-IN	AG-100	4 WAY	WHITE
C	TITUS	PAS-AA	24X24	10"φ	ALUMINUM	3	LAY-IN	AG-100	4 WAY	WHITE
Y	TITUS	3F	8X8	-	ALUMINUM	1	SURFACE	-	-	WHITE
Z	TITUS	PAR-AA	24X24	22X22	ALUMINUM	3	LAY-IN	-	-	WHITE

PROVIDE INTEGRAL VOLUME DAMPERS WHERE SHOWN ON PLAN OR WHERE DAMPER IN DUCTWORK IS NOT ACCESSIBLE ABOVE CEILING. PROVIDE SQUARE TO ROUND ADAPTERS WHERE REQUIRED FOR ROUND DUCT CONNECTION. PROVIDE FLEXIBLE DUCT SIZED TO MATCH S/A DIFFUSER NECK UNLESS NOTED OTHERWISE.



R/A TRANSFER DUCT DETAIL



CEILING DIFFUSER DETAIL

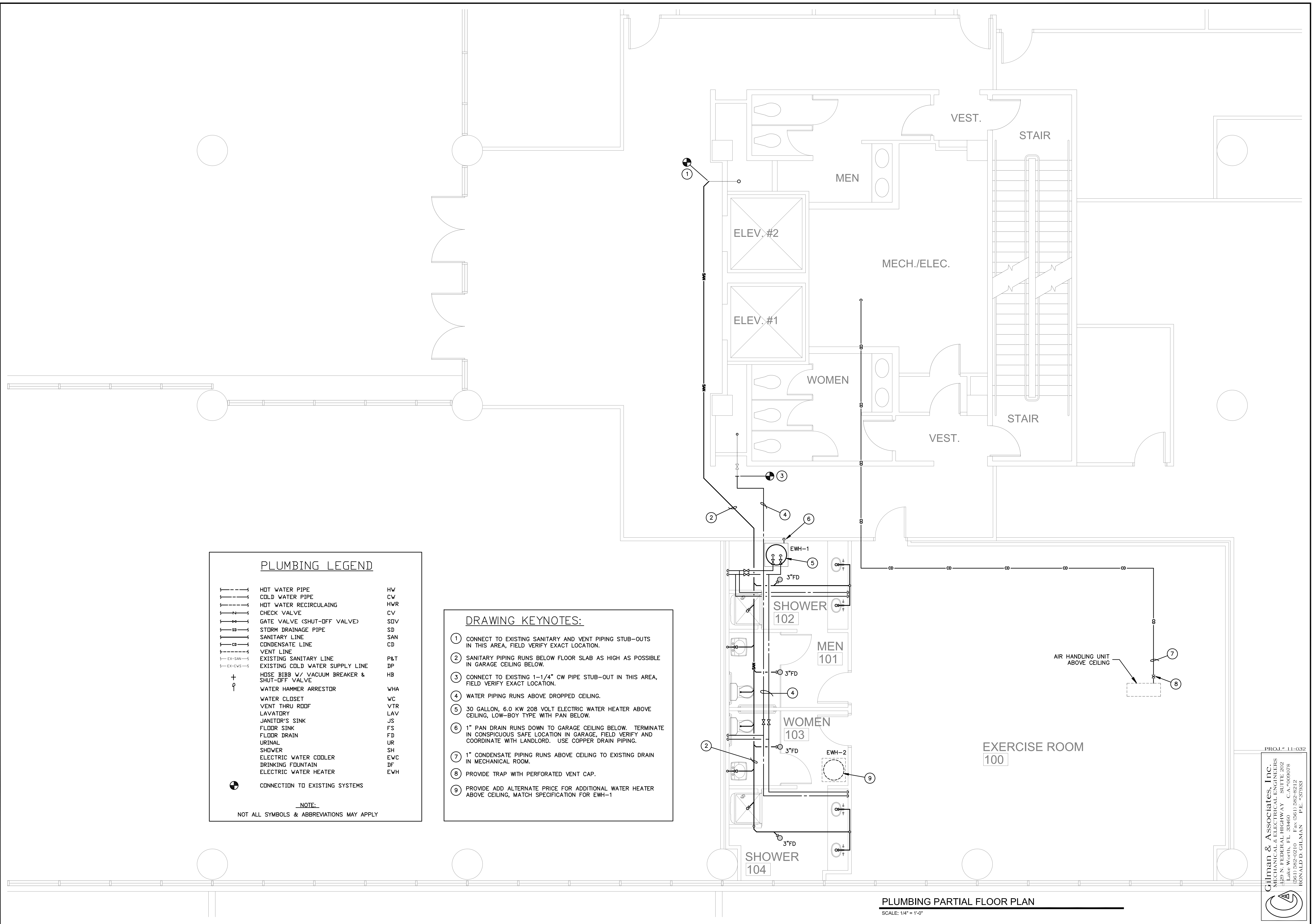
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PLUMBING LEGEND		
—●—●—	HOT WATER PIPE	HW
—○—○—	COLD WATER PIPE	CW
—●—○—	HOT WATER RECIRCULATING	HWR
—N—	CHECK VALVE	CV
—SDV—	GATE VALVE (SHUT-OFF VALVE)	SDV
—SD—	STORM DRAINAGE PIPE	SD
—SAN—	SANITARY LINE	SAN
—CD—	CONDENSATE LINE	CD
—V—	VENT LINE	
—EX-SAN—	EXISTING SANITARY LINE	P&T
—EX-CWS—	EXISTING COLD WATER SUPPLY LINE	DP
+	HOSE BIBB W/ VACUUM BREAKER & SHUT-OFF VALVE	HB
⊕	WATER HAMMER ARRESTOR	WHA
⊕	WATER CLOSET	WC
⊕	VENT THRU ROOF	VTR
⊕	LAVATORY	LAV
⊕	JANITOR'S SINK	JS
⊕	FLOOR SINK	FS
⊕	FLOOR DRAIN	FD
⊕	URINAL	UR
⊕	SHOWER	SH
⊕	ELECTRIC WATER COOLER	EWC
⊕	DRINKING FOUNTAIN	DF
⊕	ELECTRIC WATER HEATER	EWH
⊕	CONNECTION TO EXISTING SYSTEMS	

NOTE:  
NOT ALL SYMBOLS & ABBREVIATIONS MAY APPLY

- DRAWING KEYNOTES:**
- CONNECT TO EXISTING SANITARY AND VENT PIPING STUB-OUTS IN THIS AREA, FIELD VERIFY EXACT LOCATION.
  - SANITARY PIPING RUNS BELOW FLOOR SLAB AS HIGH AS POSSIBLE IN GARAGE CEILING BELOW.
  - CONNECT TO EXISTING 1-1/4" CW PIPE STUB-OUT IN THIS AREA, FIELD VERIFY EXACT LOCATION.
  - WATER PIPING RUNS ABOVE DROPPED CEILING.
  - 30 GALLON, 6.0 KW 208 VOLT ELECTRIC WATER HEATER ABOVE CEILING, LOW-BOY TYPE WITH PAN BELOW.
  - 1" PAN DRAIN RUNS DOWN TO GARAGE CEILING BELOW. TERMINATE IN CONSPICUOUS SAFE LOCATION IN GARAGE, FIELD VERIFY AND COORDINATE WITH LANDLORD. USE COPPER DRAIN PIPING.
  - 1" CONDENSATE PIPING RUNS ABOVE CEILING TO EXISTING DRAIN IN MECHANICAL ROOM.
  - PROVIDE TRAP WITH PERFORATED VENT CAP.
  - PROVIDE ADD ALTERNATE PRICE FOR ADDITIONAL WATER HEATER ABOVE CEILING, MATCH SPECIFICATION FOR EWH-1

PROJ. # 11-032  
**Gilman & Associates, Inc.**  
 PLUMBING ENGINEERS  
 120 N. FEDERAL HIGHWAY SUITE 202  
 LAKE WORTH, FL 33460 C.A.#009078  
 (561) 582-0210 Fax (561) 582-8212  
 RONALD D. GILMAN P.E. #37933

**PLUMBING PARTIAL FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

**Bd**

**birse design inc.**

5300 woodland lakes drive  
 palm beach gardens, fl 33418  
 phone 561-248-4001  
 fax 772-403-8684  
 AAC6001615

**EXERCISE ROOM**

GOLDEN BEAR PLAZA  
 11760 US HWY ONE #101  
 PALM BEACH GARDENS, FL

PROJECT NUMBER GBP35

**REVISIONS**

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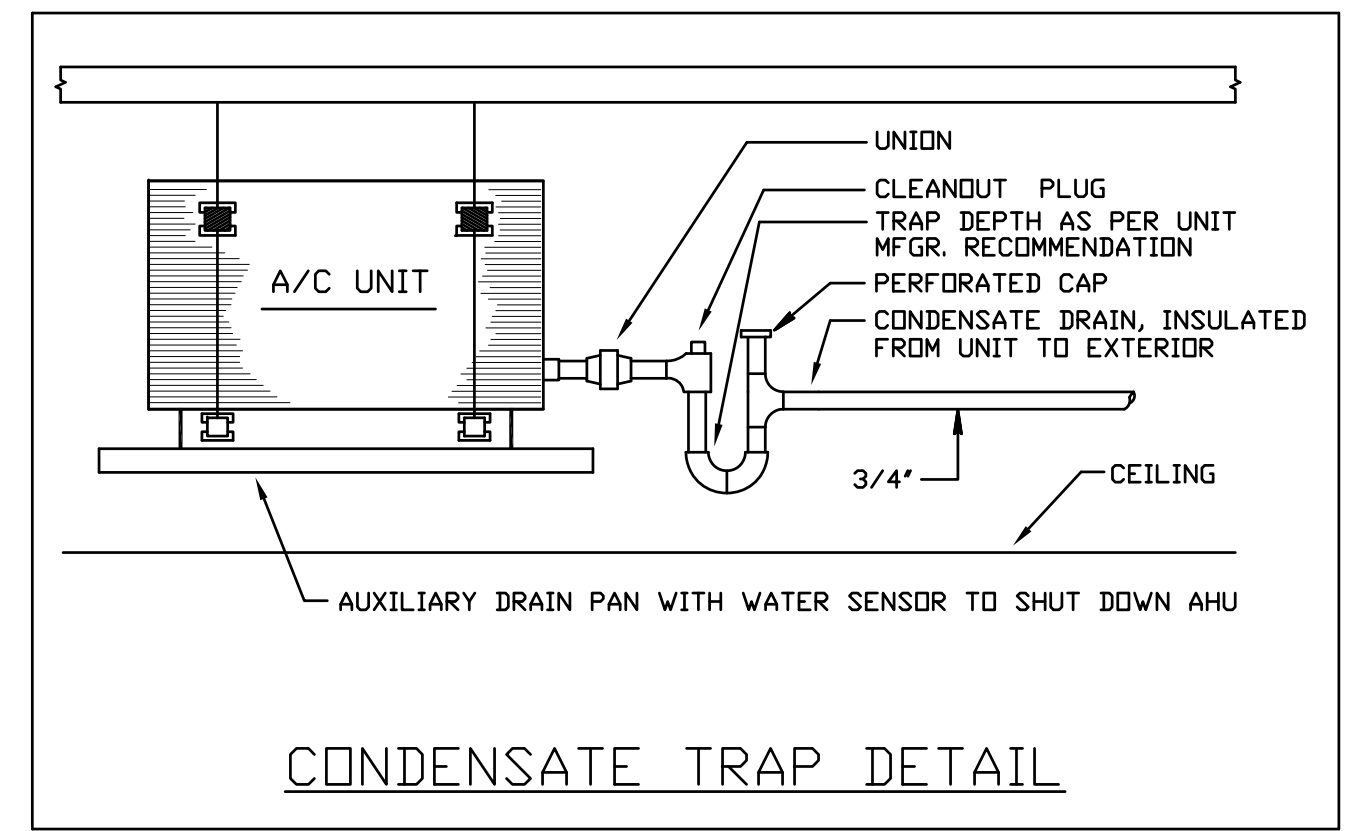
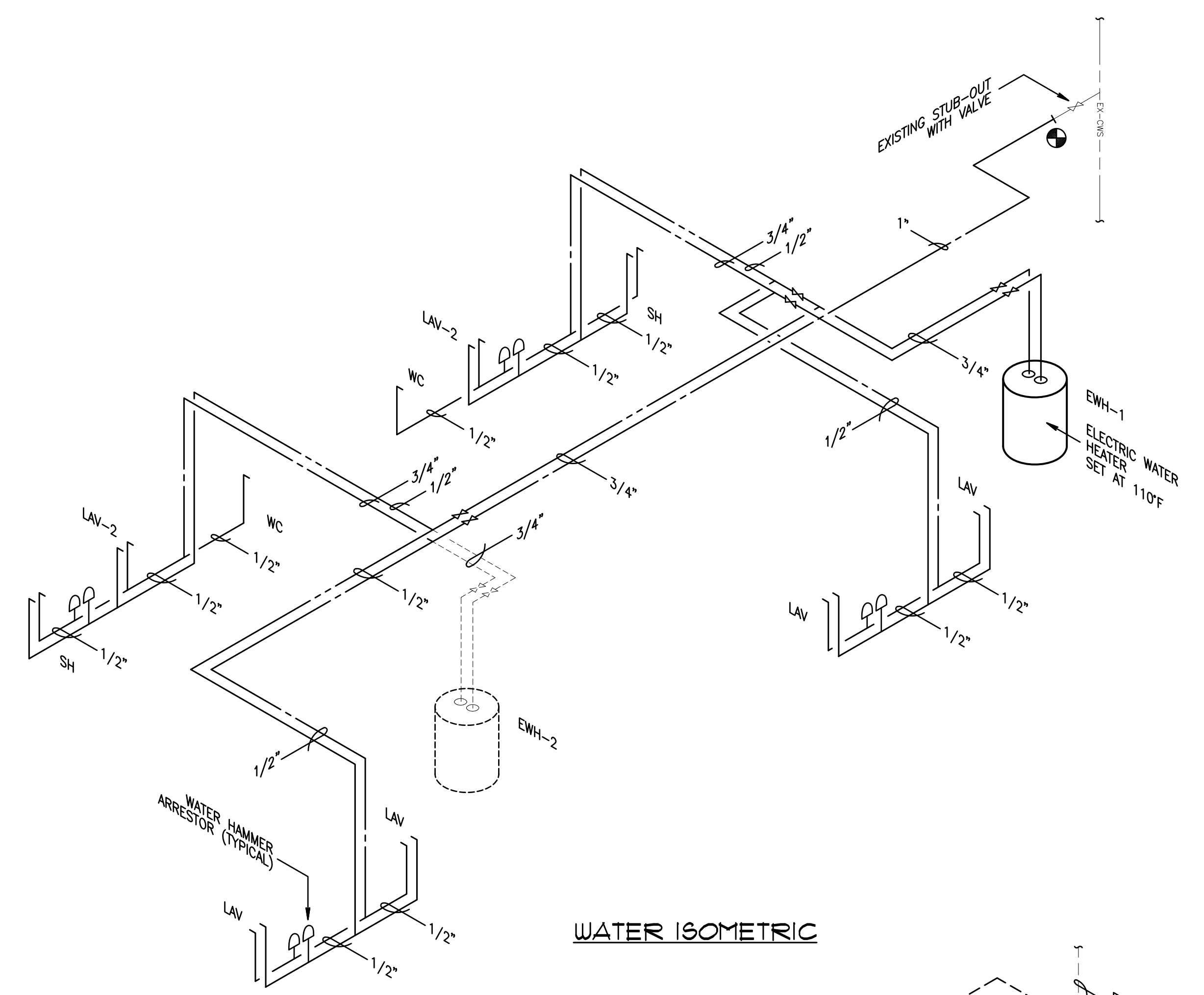
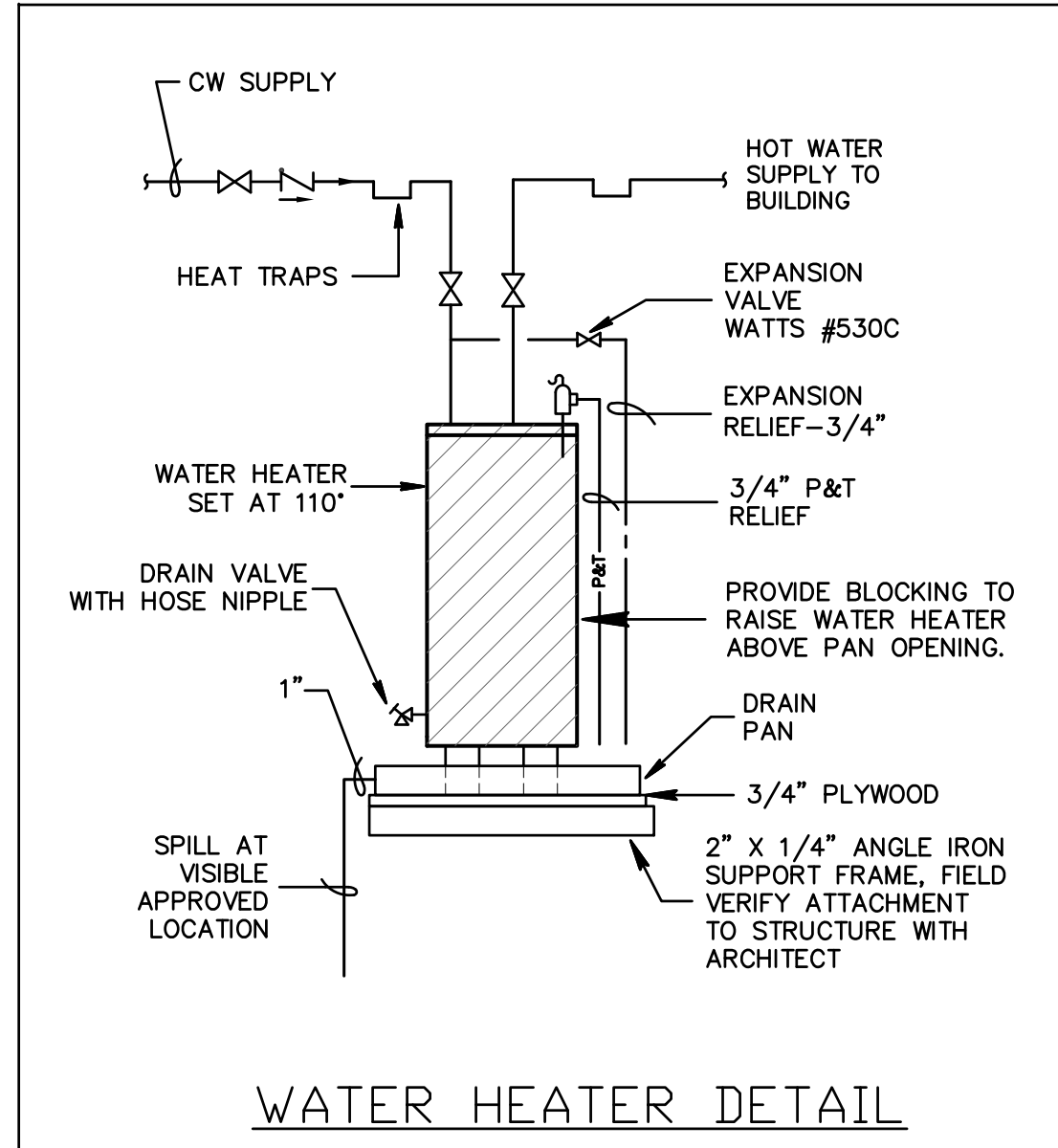
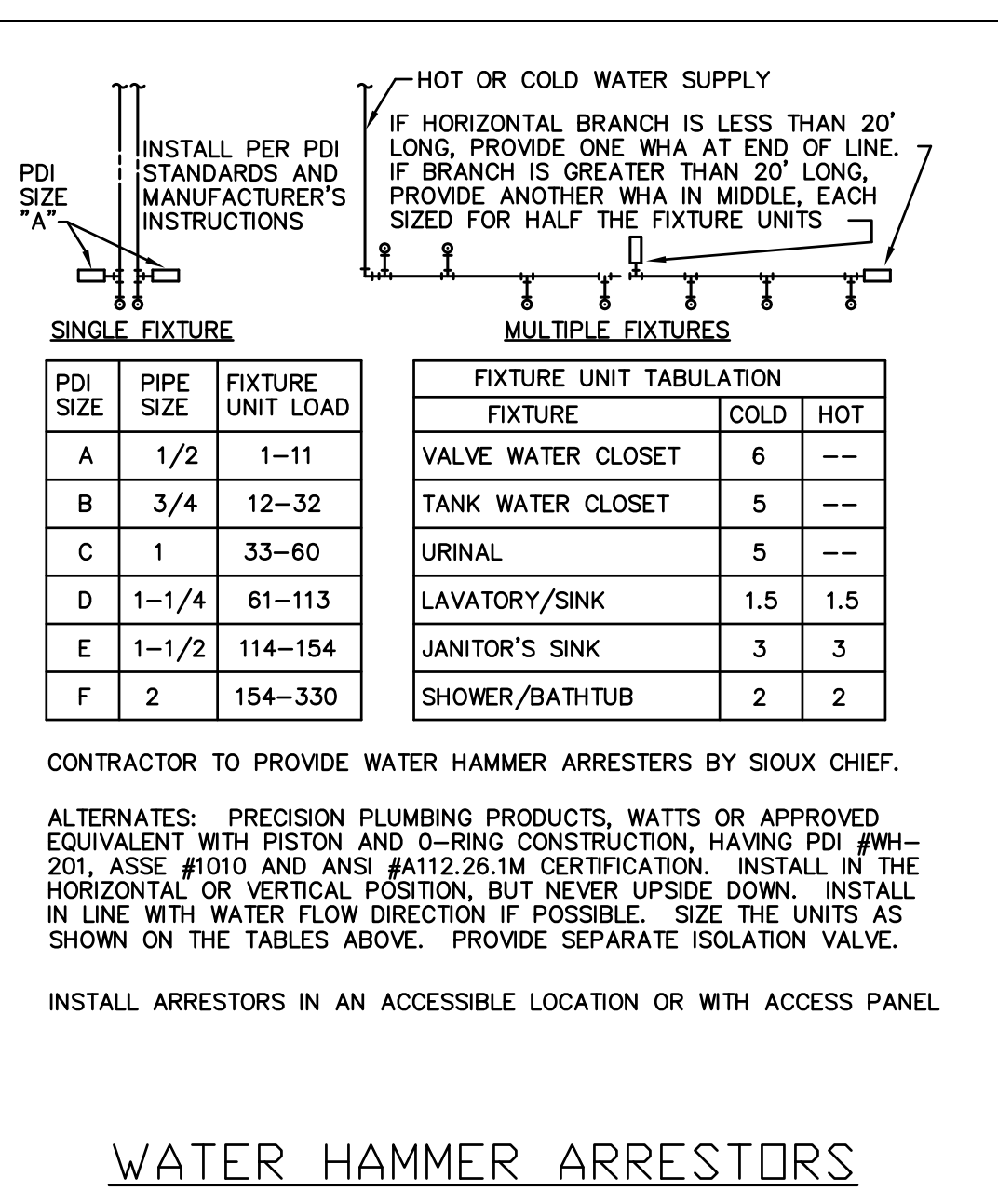
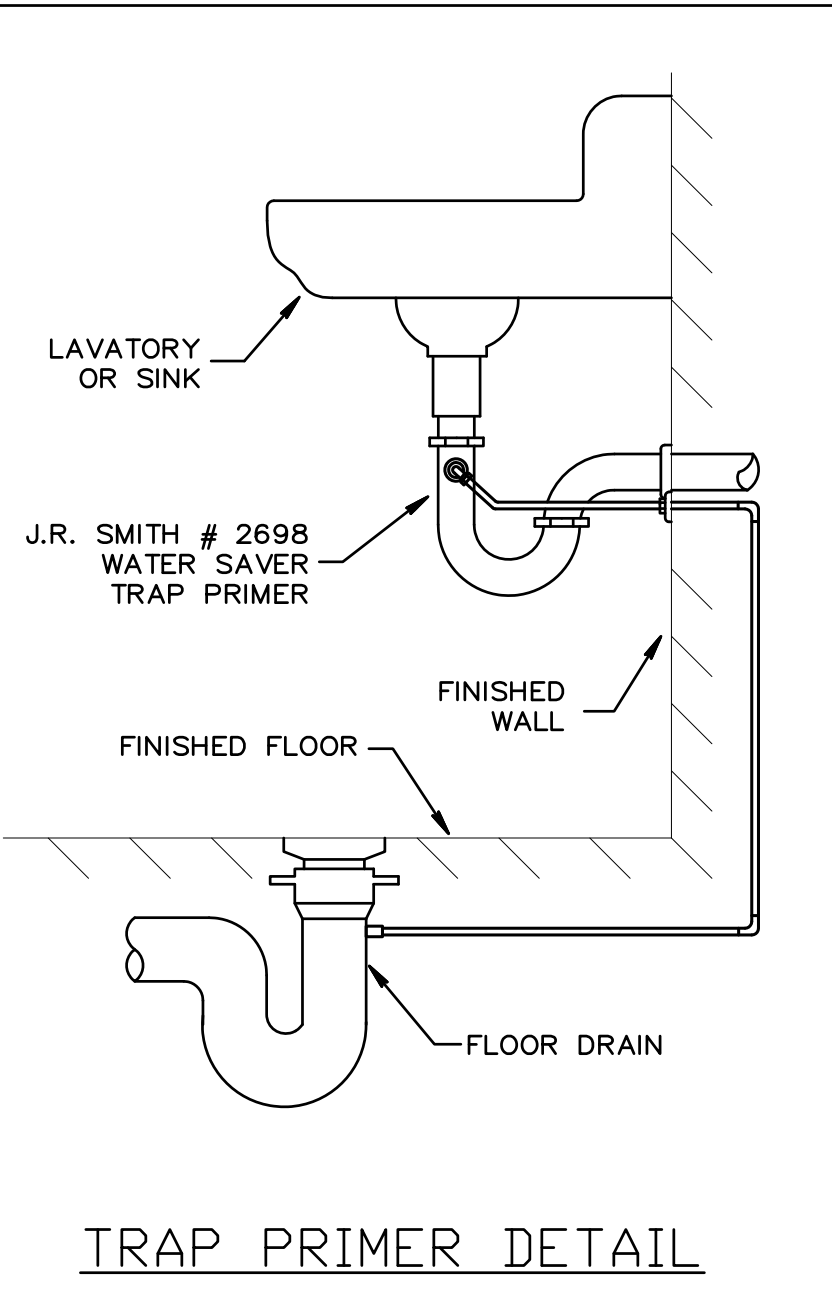
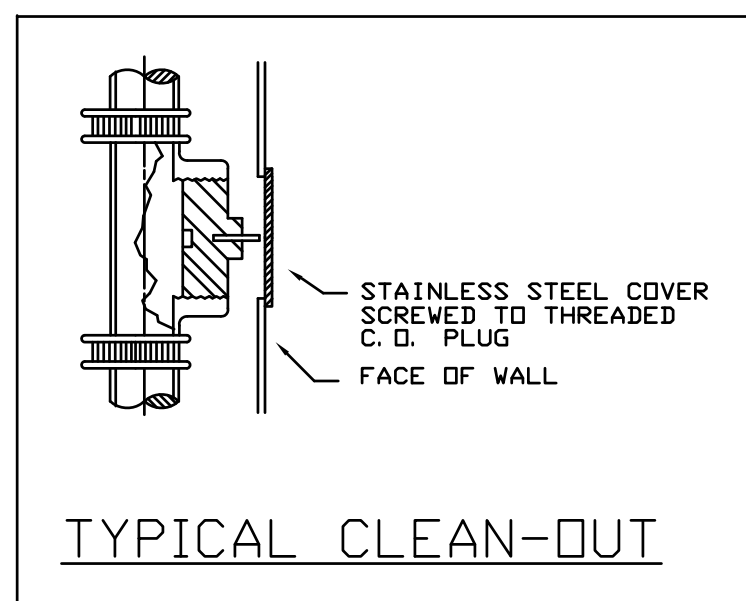
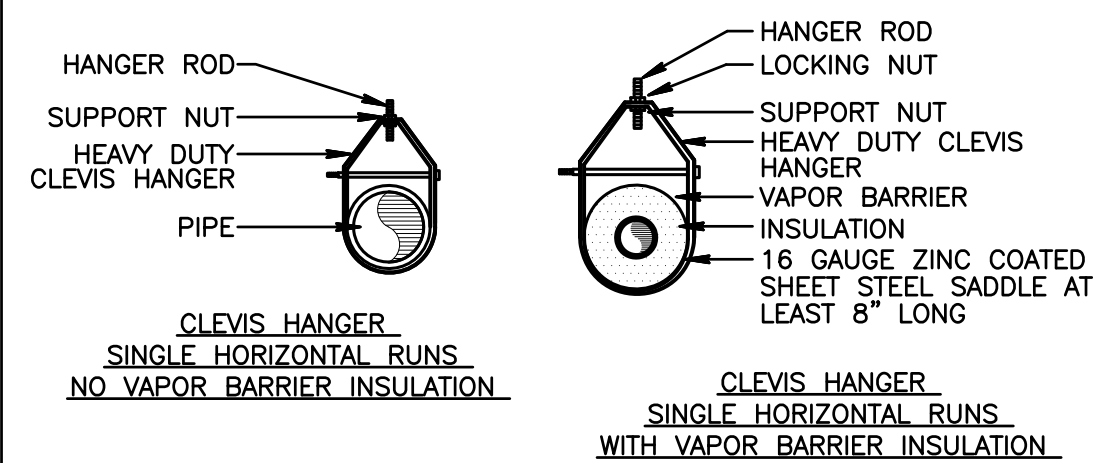
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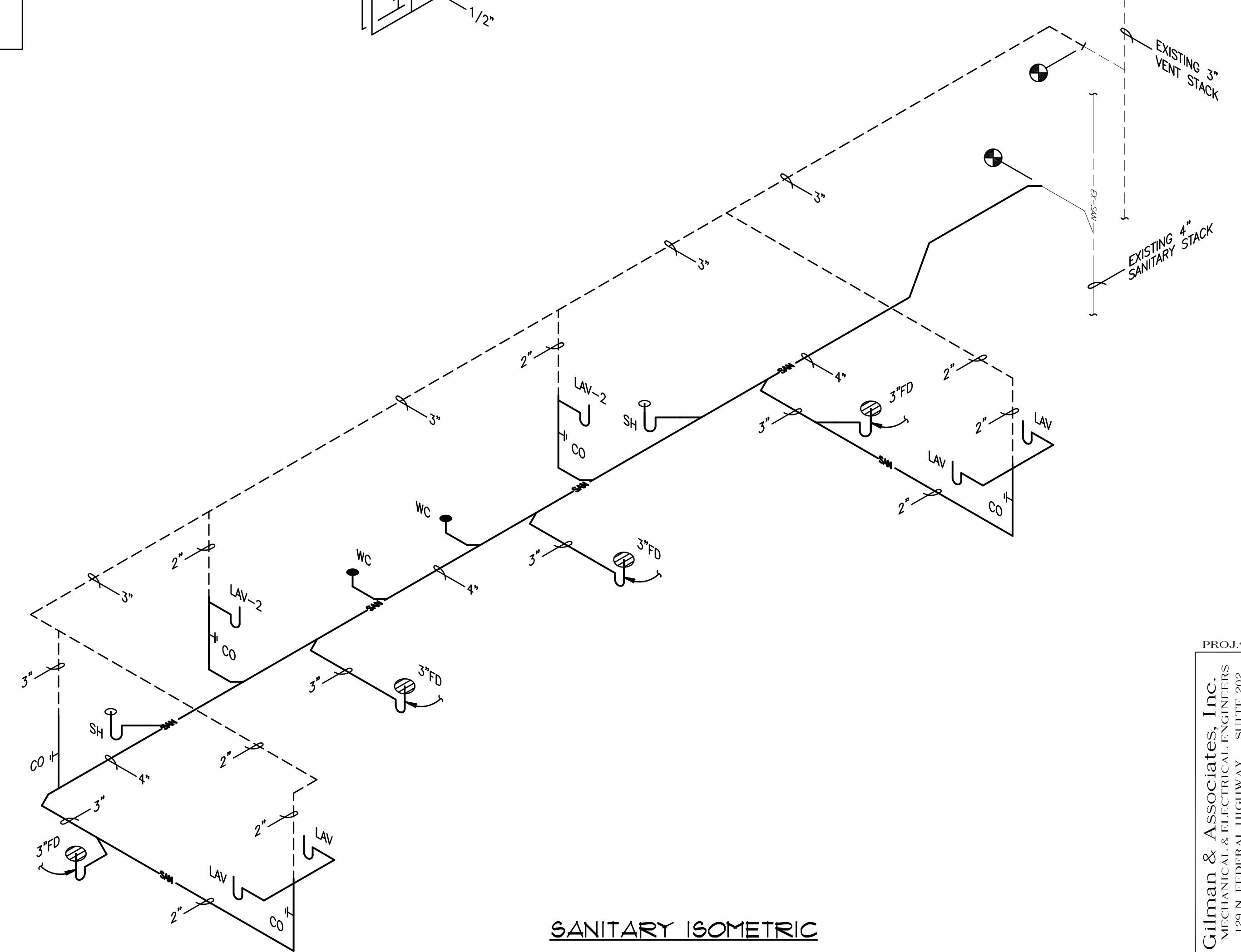


**PLUMBING FIXTURE SCHEDULE (AMERICAN STANDARD OR EQUAL)**

NAME	FIXTURE	MODEL #	ACCESSORIES
WC	WATER CLOSET (H.C. TANK)	CADET # 2388.010	CHURCH OPEN FRONT SEAT, ELONGATED WATER SAVER (1.6 G.P.F.)
LAV	DROP-IN LAVATORY	VERIFY WITH ARCHITECT	VERIFY FAUCET WITH ARCHITECT
LAV-2	WALL HUNG LAVATORY	LUCERNE #0355.012	3/8" FLEXIBLE SUPPLY PIPES, MCGUIRE ANGLE STOPS & ADJUSTABLE "P" TRAP WITH MCGUIRE 155WC DRAIN AND JOSAM 17100 FLOOR CARRIER. INSULATE DRAIN & SUPPLY PIPES WITH WHITE KIT, TRUEBERG LAVGUARD.
SH	SHOWER	SYMMONS #96-500-B30-LV	1/2" SUPPLY PIPES AND 2" FLOOR DRAIN, SHOWER TRAY AND STALL TO BE SELECTED BY ARCHITECT

FIXTURE	WATER PIPE SIZE	NOMINAL SAN. SIZE	MAXIMUM FLOW RATES
WATER CLOSET (TANK TYPE)	1/2"	3"	1.6 GPF
LAVATORY	1/2"	1 1/4"	0.5 GPM
SHOWER	1/2"	2"	3.0 GPM



**PLUMBING GENERAL NOTES:**

- ALL WORKMANSHIP AND MATERIAL SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE LOCAL CODES, RULES AND ORDINANCES.
- CONTRACTOR SHALL VISIT THE JOB SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS.
- ALL MATERIAL SHALL BE NEW.
- ALL WORK SHALL BE PERFORMED BY A LICENSED PLUMBING CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE.
- NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, INSPECTION & TESTS. DRAWINGS ARE DIAGRAMMATIC. DO NOT SCALE FOR THE EXACT LOCATION OF FIXTURES, PIPING, EQUIPMENT, ETC.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION. REPORT ANY DISCREPANCY TO ENGINEER/ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.
- VERIFY LOCATION, SIZE, AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- WATER PIPING SHALL BE TYPE "L" COPPER.
- SOIL, WASTE, VENT AND STORM DRAIN PIPING SHALL BE CAST IRON NO HUB 30"-72" ABOVE GRADE AND SCH. 40 PVC BELOW GRADE.
- FURNISH AND INSTALL APPROVED SHOCK ARRESTORS AT EACH PLUMBING FIXTURE GROUP AND AT QUICK CLOSING VALVES.
- INSULATE PER A.D.A. ALL EXPOSED HANDICAP LAVATORIES DRAIN PIPING AND HOT & COLD STOP AND SUPPLIES. COVERS SHALL BE SOFT, REMOVABLE AND UPC APPROVED. MANUFACTURE: PLUMBEREX HANDY-SHIELD, TRU-BRO OR PRO-SERIES.
- ALL FIXTURES MUST BE PROVIDED WITH READILY ACCESSIBLE STOPS & APPROPRIATELY MARKED ACCESS PANELS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- PROVIDE CHROME PLATED COMBINATION COVER PLATE & CLEANOUT PLUG OR ACCESS PANEL FOR ALL WALL CLEANOUTS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION.
- DIELECTRIC COUPLINGS ARE REQUIRED BETWEEN ALL DISSIMILAR METAL IN PIPING AND EQUIPMENT CONNECTIONS.
- ISOLATE COPPER PIPE FROM HANGER OR SUPPORTS WITH ISOLATOR PAD. (HAIR FELT LINING).
- ALL FIRE RATED FLOOR AND WALL PENETRATIONS SHALL BE PROPERLY PROTECTED FROM FIRE, SMOKE AND WATER PENETRATION BY FILLING VOIDS BETWEEN PIPE & WALL/FLOOR SLEEVES WITH UL APPROVED FIRE/SMOKE/WATER SEALANT.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS & WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE BY OWNER. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED.
- PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES AND ALL WATER HAMMER ARRESTERS. ACCESS PANELS IN RATED WALLS MUST MAINTAIN THE SAME RATING & MUST MATCH THE FINISH OF THE WALL IN WHICH IT IS INSTALLED.
- CONDENSATE DRAIN TO BE COPPER DRAIN, WASTE & VENT FITTINGS. INSULATE ALL CONDENSATE EXCEPT UNDERGROUND.
- PROVIDE 1/2" TRAP PRIMER LINE FOR ALL FLOOR DRAINS FROM THE NEAREST PLUMBING FIXTURE OR PROVIDE SIOUX CHIEF #695 TRAP PRIMER.
- NO COMBUSTIBLE MATERIAL TO BE USED IN MECHANICAL ROOMS OR IN CEILING SPACES WHERE USED AS RETURN AIR PLENUMS.

**Bd**

birse design inc.

5300 woodland lakes drive  
palm beach gardens, fl 33418  
phone: 561-248-4001  
fax: 772-403-8684  
A/C6001615

**EXERCISE ROOM**

GOLDEN BEAR PLAZA  
11760 US HWY ONE #101  
PALM BEACH GARDENS, FL  
PROJECT NUMBER GBP35

**REVISIONS**

NO.	DESCRIPTION
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PROJ. # 11-032

**Gilman & Associates, Inc.**  
PLUMBERS  
201 N. FEDERAL HIGHWAY SUITE 202  
LAKE WORTH, FL 33460 C.A.#009078  
(561) 582-0210 Fax (561) 582-8212  
RONALD D. GILMAN P.E. #37933

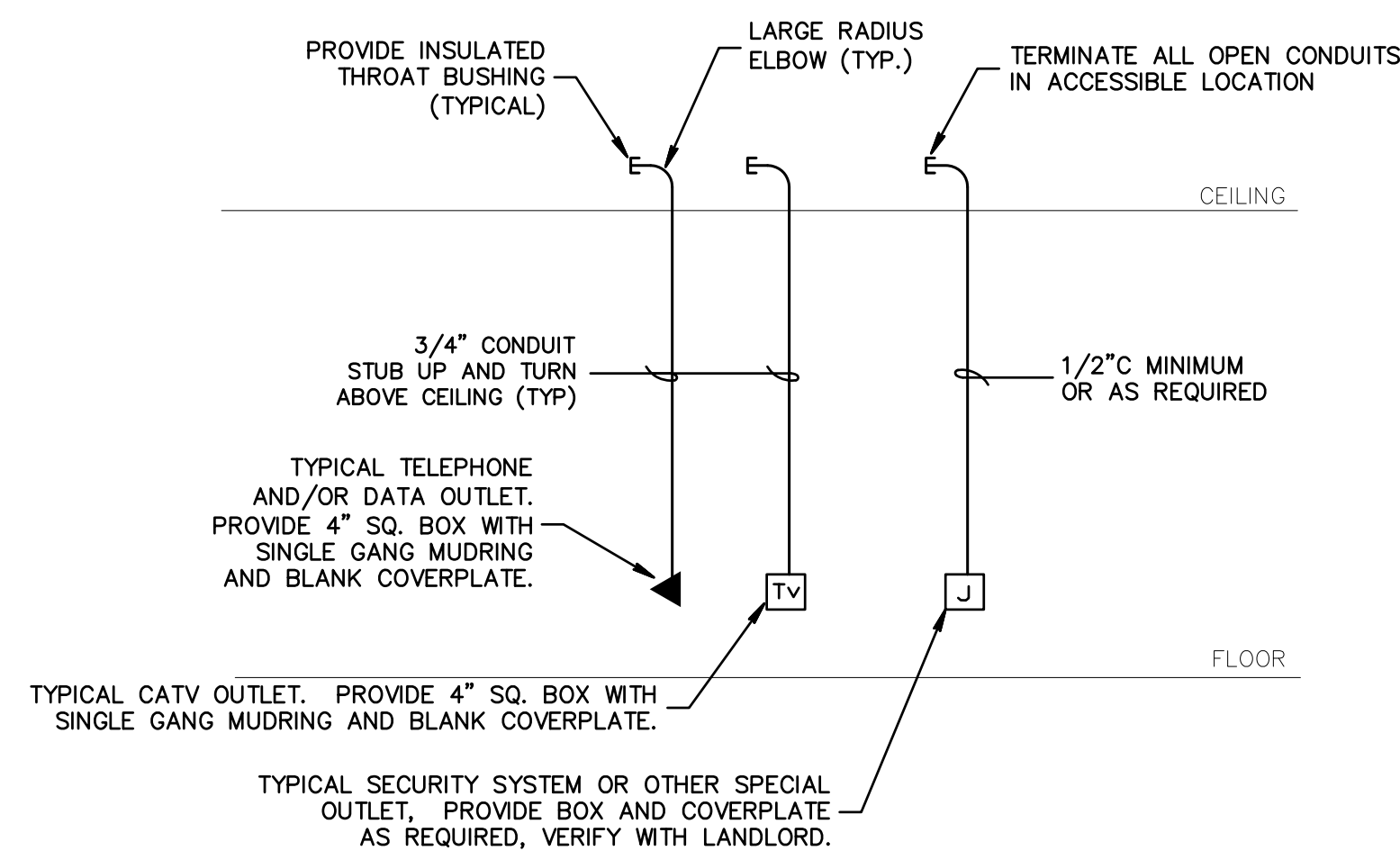
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**LOW VOLTAGE OUTLET DETAIL**

**ELECTRICAL LEGEND**

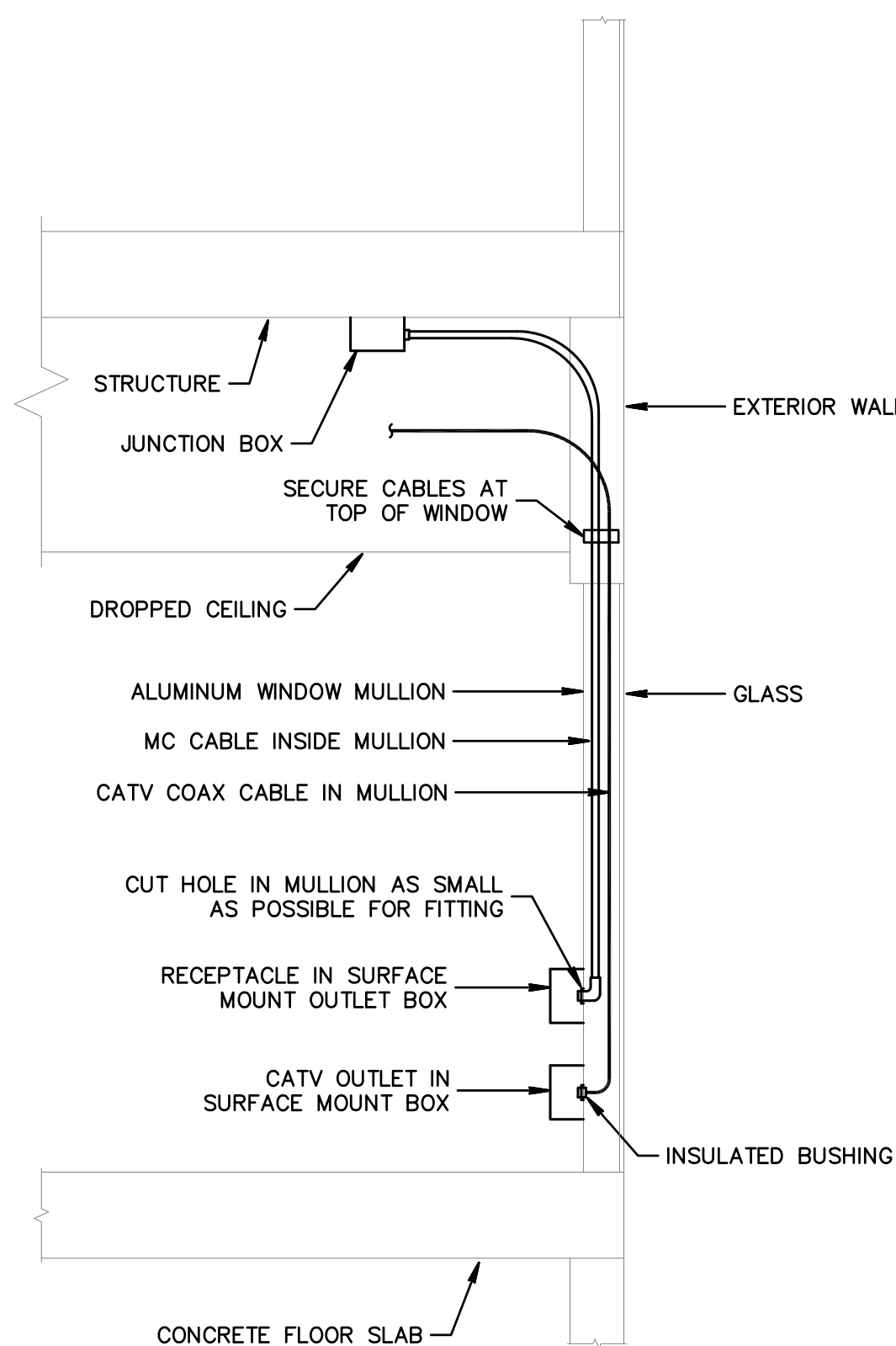
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|--|--|
| <ul style="list-style-type: none"> <li>○ LIGHTING FIXTURE IDENTIFICATION</li> <li>⊠ RECTANGULAR LIGHTING FIXTURE - AS NOTED</li> <li>⊡ RECTANGULAR LIGHTING FIXTURE - EXISTING AS NOTED</li> <li>○ ROUND LIGHTING FIXTURE</li> <li>◐ DIRECTIONAL LIGHTING FIXTURE</li> <li>○ WALL MOUNTED LIGHTING FIXTURE</li> <li>— LINEAR STRIP LIGHTING FIXTURE</li> <li>⊕ EXIT LIGHT WITH EMERGENCY BATTERY BACKUP</li> <li>⊕ EMERGENCY LIGHTING FIXTURE WITH BATTERY BACKUP</li> <li>⊠ RECTANGULAR LIGHTING FIXTURE ON EMERGENCY POWER CIRCUIT.</li> <li>○ ROUND LIGHTING FIXTURE ON EMERGENCY POWER CIRCUIT</li> <li>⊕ DUPLEX RECEPT - 20 AMP (18' A.F.F.)</li> <li>○ SINGLE RECEPT - 20 AMP (18' A.F.F.)</li> <li>⊕ DUPLEX RECEPT MOUNTED ABOVE COUNTER - 20 AMP (42' A.F.F.)</li> <li>○ DUPLEX RECEPT FLUSH FLOOR MOUNTED - 20 AMP</li> <li>○ SPECIAL PURPOSE RECEPT (18' A.F.F. - MATCH EQUIPMENT PROVIDED)</li> <li>⊕ QUAD-PLEX RECEPT - 20 AMP (18' A.F.F.)</li> <li>⊕ SINGLE POLE TOGGLE SWITCH, 48" AFF</li> <li>⊕ 3-WAY TOGGLE SWITCH, 48" AFF</li> <li>⊕ SLIDE TYPE DIMMER SWITCH, WATTAGE AS REQUIRED, 48" AFF</li> </ul> | <ul style="list-style-type: none"> <li>⊕ JUNCTION BOXES</li> <li>⊕ FUSIBLE DISCONNECT (SWITCH POLES, AMPS/FUSES AS SHOWN)</li> <li>⊕ MOTOR RATED SWITCH (WITH OVERLOADS)</li> <li>⊕ ELECTRICAL PANELBOARD</li> <li>⊕ MOTOR LOAD</li> <li>⊕ CIRCUIT HOME RUN TO PANELBOARD OR OTHER DEVICE AS INDICATED</li> <li>⊕ CONDUIT CONCEALED</li> <li>⊕ EXISTING CIRCUIT AS NOTED</li> <li>⊕ CAPPED CONDUIT</li> <li>⊕ TELEVISION OUTLET (12" A.F.F.)</li> <li>⊕ TELEPHONE/DATA OUTLET (18" A.F.F.)</li> <li>⊕ TEL/DATA OUTLET FLUSH FLOOR MOUNTED</li> <li>⊕ EXISTING DUPLEX RECEPTACLE OUTLET BOX TO REMAIN.</li> <li>⊕ EXISTING TELEPHONE/DATA OUTLET BOX TO REMAIN</li> <li>⊕ EXISTING DEVICE TO REMAIN, UNLESS NOTED OTHERWISE</li> <li>⊕ EXISTING DEVICE, RELOCATED AS SHOWN</li> <li>⊕ EXISTING DEVICE TO BE DEMOLISHED OR RELOCATED</li> <li>⊕ OCCUPANCY SENSOR WITH MANUAL SWITCH, HUBBELL LHMTS1, 48" AFF</li> <li>⊕ OCCUPANCY SENSOR, CEILING MOUNT, HUBBELL OMNI DT-2000</li> </ul> |
|--|--|

NEW FIRE ALARM DEVICES ARE TO BE COMPATIBLE WITH EXISTING SYSTEM. PROVIDE ADDITIONAL POWER SUPPLIES AS REQUIRED. PROVIDE ADDITIONAL HORNS AND STROBES AS REQUIRED TO MEET AUDIBLE AND VISIBLE REQUIREMENTS OF NFPA 72, ADA, AND NFPA 101. VERIFY EXISTING POINT OF CONNECTION TO EXISTING SYSTEM.

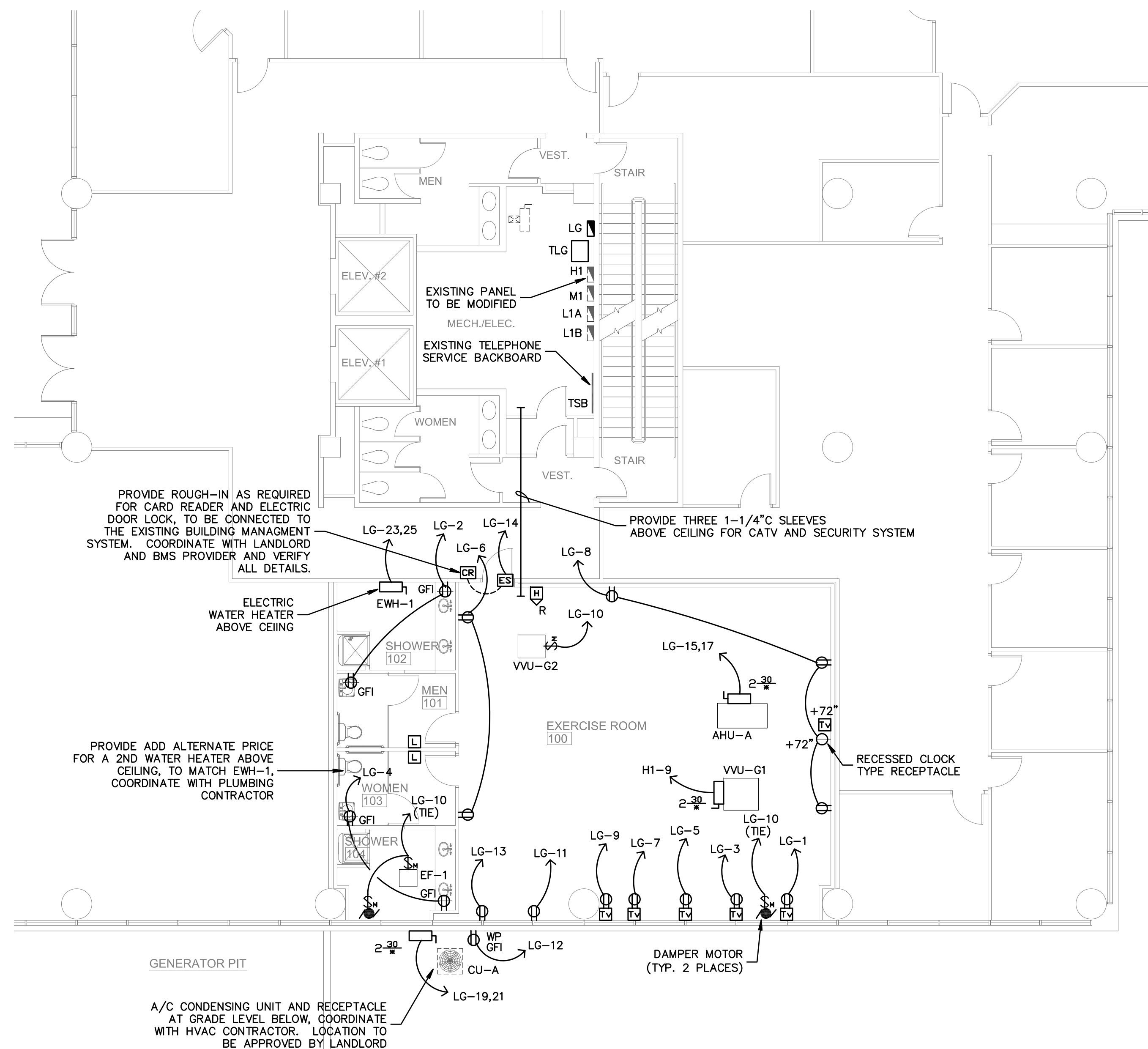
**FIRE ALARM LEGEND**

- ⊕ MANUAL PULL STATION 48" AFF
- ⊕ WALL MOUNT HORN/STROBE 80" AFF TO BOTTOM
- ⊕ ADA COMPLIANT STROBE LIGHT 80" AFF TO BOTTOM

AUDIBLE ALARMS SHALL HAVE A MINIMUM LEVEL OF 15 DBA IN EXCESS OF THE AMBIENT SOUND LEVEL OF THE ROOM, AND SHALL OTHERWISE BE IN ACCORDANCE WITH FBC 11-4.28.2.  
VISUAL ALARMS SHALL HAVE A MINIMUM LEVEL OF 75 CANDELA AND SHALL OTHERWISE BE IN ACCORDANCE WITH FBC 11-4.28.3.



**OUTLET DETAIL AT EXTERIOR WALL**  
NO SCALE



**PROPOSED ELECTRICAL FLOOR PLAN**

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

**Bd**

birse design inc.

5300 woodland lakes drive  
palm beach gardens, fl 33418  
phone: 561-249-4001  
fax: 772-409-8884  
AAC26001615

**EXERCISE ROOM**

GOLDEN BEAR PLAZA  
11760 US HWY ONE #101  
PALM BEACH GARDENS, FL

PROJECT NUMBER 6BP35

**REVISIONS**

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**Gilman & Associates, Inc.**  
MECHANICAL & ELECTRICAL ENGINEERS  
1550 W. PALM BEACH BLVD., SUITE 200  
LAKELAND, FL 33809  
(561) 282-0210 FAX (561) 282-8212  
RONALD D. GILMAN P.E. #37938



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**CD**

9/27/11

**E-1**

### GENERAL ELECTRICAL NOTES

- DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE NFPA-70 (2008), THE LIFE SAFETY CODE NFPA-101 (2006), THE NATIONAL FIRE ALARM CODE NFPA-72 (2002), AND THE FLORIDA BUILDING CODE (FBC 2007 WITH 2009 SUPPLEMENTS).
- MINIMUM WIRE SIZE SHALL BE #12 A.W.G., EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED ALL CONDUCTORS SHALL BE COPPER WITH THWN INSULATION.
- OUTLET BOXES SHALL BE SHEET STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES AS REQUIRED FOR OTHER CLASSIFIED AREAS.
- DISCONNECT SWITCHES SHALL BE HP. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, WITH ENCLOSURES AS REQUIRED BY EXPOSURE.
- MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
- IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, AND FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C.
- ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.
- THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
- FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR AIR CONDITIONING SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. CONTROLS ARE TO BE SUPPLIED BY AIR CONDITIONING CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ALL RACEWAYS UNDERGROUND SHALL BE A MINIMUM OF 3/4" CONDUIT.
- ALL CIRCUIT BREAKERS, TWO AND THREE POLE, TO BE COMMON TRIP. NO TIE HANDLES, OR TANDEMS WILL BE ACCEPTED.
- ALL FUSES, UNLESS NOTED ON DRAWING, SHALL BE CURRENT LIMITING (C.L.) RATED FOR 200,000 A.I.C.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITERS' LABORATORIES, INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.
- THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN, ON SITE, A DETAILED AS-BUILT PLAN SHOWING ACTUAL INSTALLATIONS. THE CONTRACTOR IS TO PROVIDE A NEATLY DRAWN COMPREHENSIVE AS-BUILT SET OF PLANS UPON COMPLETION, WHICH ARE SUITABLE FOR SUBMISSION TO THE BUILDING DEPARTMENT AND THE OWNER.
- ALL WIRING IS TO BE IN CONDUIT. METAL CLAD CABLES MAY BE USED FOR 30 AMP MAXIMUM, 120/208 VOLT WIRING WITHIN THE SUITE ONLY.

### GENERAL DEMOLITION NOTES

- UNLESS OTHERWISE NOTED, ALL EQUIPMENT, WIRING DEVICES, LIGHT FIXTURES, CONDUIT AND WIRE IN THE PROJECT AREA WHICH IS NOT INDICATED TO REMAIN, IS TO BE REMOVED. THE CONTRACTOR SHALL INVESTIGATE THE PROJECT AREA PRIOR TO BID TO DETERMINE ALL REQUIRED DEMOLITION.
- EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
- DEMOLITION WORK IS NOT SPECIFICALLY IDENTIFIED ON THESE PLANS, AND MAY BE DESCRIBED ON THE ARCHITECTS PLANS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
- ALL CONDUITS SERVING OTHER SPACES OR FLOORS, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION, SO AS NOT TO CAUSE ANY DISRUPTION TO THESE OTHER SPACES.
- ALL ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
- PROPERLY REMOVE AND DISPOSE OF ALL ELECTRICAL EQUIPMENT, CONDUIT AND WIRING WHICH IS TO BE REMOVED. CONSULT WITH OWNER AND OBTAIN THE OWNERS APPROVAL PRIOR TO DISPOSAL OF REMOVED MATERIAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA, ARE PROPERLY SUPPORTED AND PROVIDED WITH BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.

TYPE: CUTLER HAMMER CH										MAIN BUS: 100 AMP									
SERVICE: 120/208, 3Ø, 4W										NEUTRAL: FULL									
MOUNTING: SURFACE										MAINS: 100A CKT.BKR.									
POLES: 30										A.I.C. 10K									
DEM. KVA	OTHER KVA	TRIP-POLE	CON-DUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CON-DUIT	TRIP-POLE	OTHER KVA	DEM. KVA						
	1.5	20-1	1/2	12	TREADMILL	1	2	GYM MENS ROOM RECEPT.	12	1/2	20-1	0.4							
	1.5				TREADMILL	3	4	GYM WOMENS RECEPT.				0.4							
	1.2				STATIONARY BIKE	5	6	GYM RECEPTACLES				0.4							
	1.2				STATIONARY BIKE	7	8	GYM RECEPTACLES				0.5							
	1.0				GYM EQUIPMENT	9	10	VAV CONTROL/ EX. FAN				0.2							
	0.5				GYM EQUIPMENT	11	12	EXTERIOR RECEPT.				0.2							
	0.5				GYM EQUIPMENT	13	14	DOOR LOCK				0.2							
	1.1	15-2	1/2	12	AHU-A	15	16	SPARE											
						17	18												
	2.3	20-2	1/2	12	CU-A	19	20												
						21	22												
	6.0	30-2	1/2	10	WATER HEATER	23	24												
						25	26												
	6.0				SPARE	27	28												
						29	30												
TOTAL DEMAND LOAD: 25.0 KVA = 69 AMPS												2.2							

### EXISTING PANEL

TYPE: WESTINGHOUSE WH										MAIN BUS: 225 AMP									
SERVICE: 277/480V, 3Ø, 4W										NEUTRAL: FULL									
MOUNTING: SURFACE										MAINS: LUGS ONLY									
POLES: 42										A.I.C. 14K									
DEM. KVA	OTHER KVA	TRIP-POLE	CON-DUIT	WIRE	REMARKS	CKT. NO.	CKT. NO.	REMARKS	WIRE	CON-DUIT	TRIP-POLE	OTHER KVA	DEM. KVA						
	1.1	20-1			CORE LIGHTING	1	2	LIGHTING - SUITE 100			20-1		2.8						
	2.8	20-1			LIGHTING - SUITE 100	3	4	LIGHTING - SUITE 100					2.8						
	2.8	20-1			LIGHTING - SUITE 100	5	6	SUITE 100 INSTA-HOT				4.2							
	1.7	20-1	1/2	12	GYM LIGHTING	7	8	LIGHTING - SUITE 100					2.8						
	5.0	30-1	1/2	10	VAV-G1 HEAT	9	10	SPARE											
						11	12	SUITE 103 LIGHTING					2.8						
	25.0	50-3	-	-	TRANSFORMER/PANEL LG	13	14	SUITE 106 LIGHTING					2.8						
						15	16	SUITE 106 LIGHTING					2.8						
		20-1			SPARE	17	18	SPACE											
		20-1			SPARE	19	20												
					SPARE	21	22												
						23	24												
						25	26												
						27	28												
						29	30												
						31	32												
						33	34												
						35	36												
						37	38												
						39	40												
						41	42												
8.4	30.0											4.2	16.8						
TOTAL LIGHTING LOAD: 25.2 x 1.25 = 31.5 KVA																			
TOTAL NON DEMAND LOAD: 34.2 KVA																			
TOTAL DEMAND LOAD: 65.7 KVA = 79 AMPS																			

### PANEL SCHEDULES KEYNOTES

- EXISTING CIRCUIT TO REMAIN AS IS.
- EXISTING CIRCUIT TO BE DEMOLISHED
- PROVIDE NEW CIRCUIT BREAKER, MATCH EXISTING BREAKERS.
- PROVIDE CONTRACTOR AND CONNECTION TO BUILDING ENERGY MANAGEMENT SYSTEM FOR CONTROLS. VERIFY ALL DETAILS AND COORDINATE WITH THE BUILDINGS EMS SERVICE PROVIDER. THE CONTRACTOR IS RESPONSIBLE FOR A COMPLETE AND OPERATION CONTROL SYSTEM, INCLUDING ANY SOFTWARE PROGRAMMING MODIFICATIONS REQUIRED FOR THE EMS.

### LIGHTING POWER COMPLIANCE

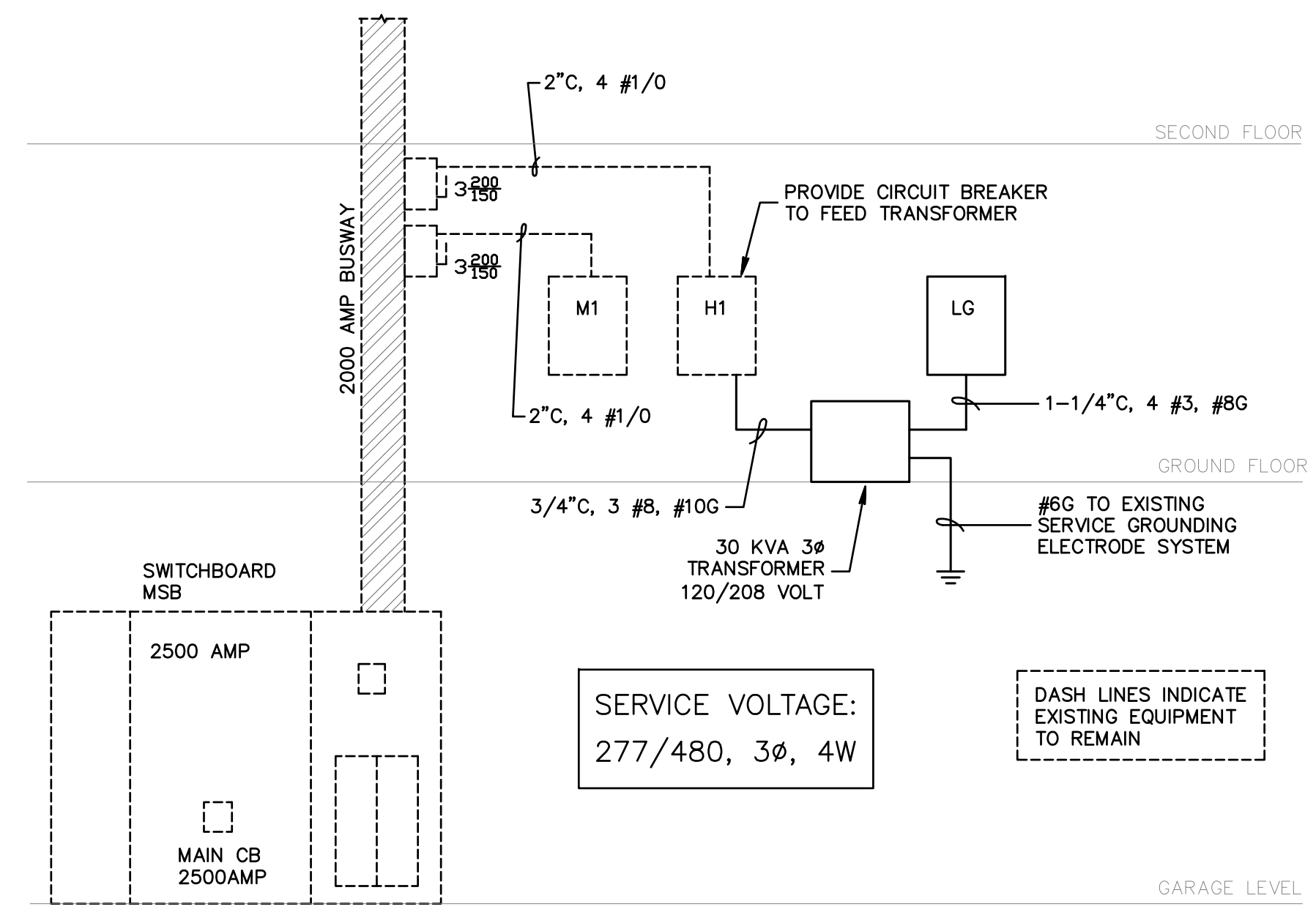
(PER TABLE 13-415.2.B, FBC CHAPTER 13)

SPACE TYPE	TOTAL AREA (SQ.FT.)	ALLOWANCE PER SQ.FT.	SUB-TOTAL ALLOWANCE	DESIGN
EXERCISE AREA AREAS	1,230	0.9	1,107	1,104
RESTROOMS	400	0.9	360	350
TOTALS			1,467	1,454

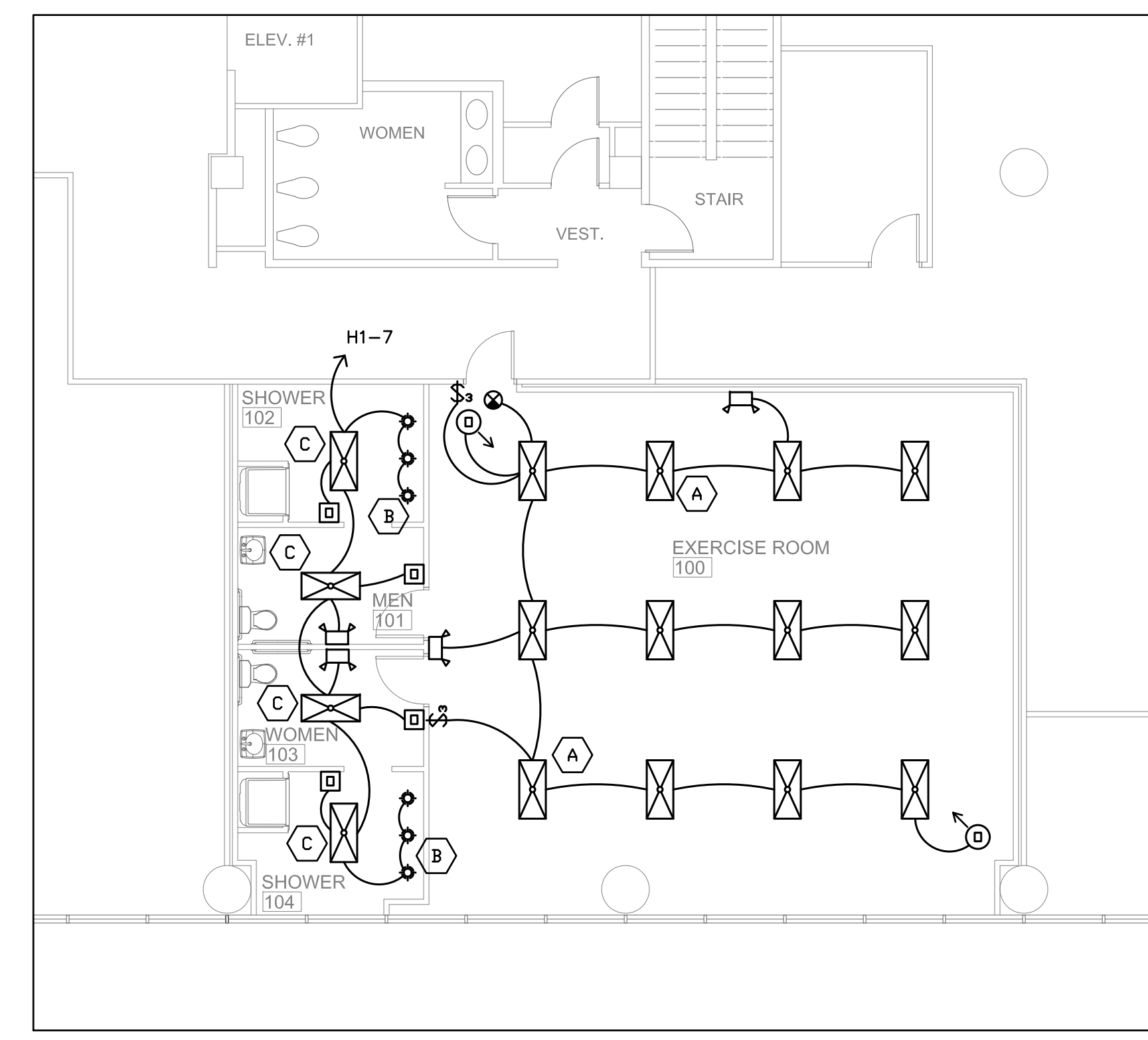
### LIGHTING FIXTURE SCHEDULE

MARK	TYPE	MOUNT	LAMP	VOLT	MANUFACTURER	CATALOG	NOTES
A	PARABOLIC TROFFER	RECESSED	(3)F032 T8/35K	MV	COLUMBIA	P4D24-332G-MA36-S-3EPU-GLR	92 WATTS MAXIMUM
B	LENSED DOWN LIGHT	RECESSED	(1)13VTT 35K	120	PRESCOLITE	CF0613EB-STF602CL	17 WATTS MAXIMUM
C	LENSED TROFFER	RECESSED	(2)F032 T8/35K	MV	COLUMBIA	JT824-232G-FA-A19-EU	62 WATTS MAXIMUM
	EXIT LIGHT	SURFACE	BY MFR.	MV	DUAL LITE	LXURWE	1, 2
	EMERGENCY LIGHTING	SURFACE	BY MFR.	MV	DUAL LITE	LZ2	2

- PROVIDE SINGLE OR DUAL FACE, WALL OR CEILING MOUNT, AS SHOWN ON PLANS. CONNECT FIXTURES TO UNSWITCHED HOT LEG OF LOCAL EMERGENCY LIGHTING CIRCUIT.
- PROVIDE BATTERY/INVERTER BACKUP FOR 90 MINUTES IN ACCORDANCE WITH NFPA REQUIREMENTS. CONNECT FIXTURES TO UNSWITCHED HOT LEG OF LOCAL LIGHTING CIRCUIT.



PARTIAL POWER RISER DIAGRAM



PROPOSED LIGHTING FLOOR PLAN

Bd

birse design inc.

5300 woodland lakes drive  
palm beach gardens, fl 33418  
phone: 561-949-4001  
fax: 772-403-9884  
AAG26001615

EXERCISE ROOM

GOLDEN BEAR PLAZA  
11760 US HWY ONE #101  
PALM BEACH GARDENS, FL

PROJECT NUMBER 6BP35

REVISIONS
1
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3
4
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DRAWN BY GD

CD

9/27/11

E-2

PROJ.# 11-032  
Gilman & Associates, Inc.  
MECHANICAL & ELECTRICAL ENGINEERS  
1555 W. PALM BEACH BLVD., SUITE 200  
LAKELAND, FL 33809  
(561) 582-0210 FAX (561) 582-8212  
RONALD D. GILMAN P.E. #37933