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PROJECT DATA:

PROJECT NAME: NEW GENERATION GYM

PROJECT ADDRESS: 608 SW MARVIN BURNETT RD, LAKE CITY, FLORIDA, 32025

PROJECT ZONING: PRYT SCHL/ (007200)

DESIGN CODE: FLORIDA BUILDING CODE 2017 6th EDITION, FLORIDA FIRE PREVENTION CODE 2017 6th EDITION, AND ASCE-7-10

SQUARE FOOTAGE: 5000 (+/-)

STORIES: 1 STORY

OCCUPANCY LOAD: 205 (SEE BREAKDOWNS PG. A104)

OCCUPANCY TYPE: A-3 ASSEMBLY (GYM)

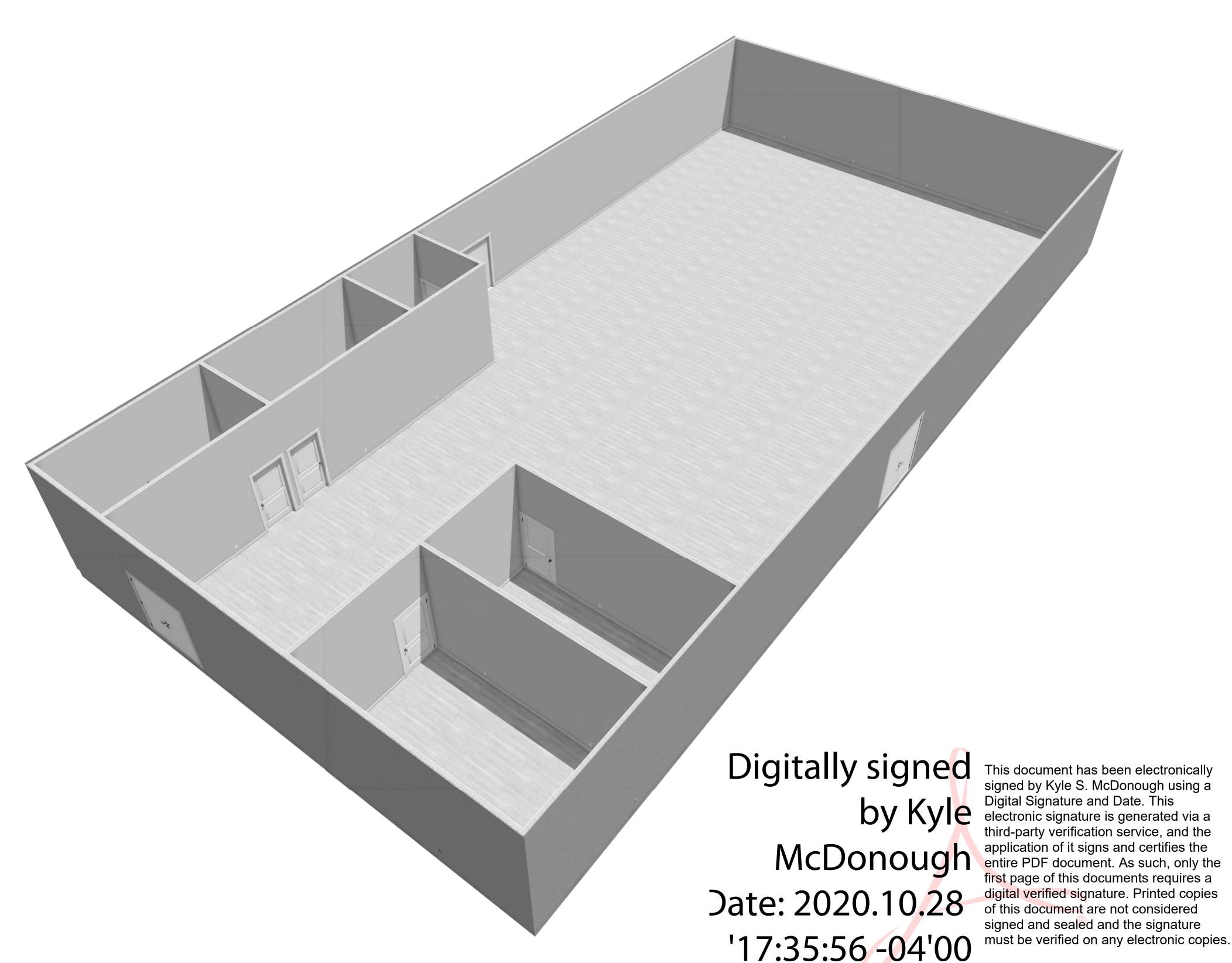
CONSTRUCTION TYPE: YB UNSPRINKLED/ UNPROTECTED

ENCLOSURE: ENCLOSED BUILDING

FIRE CODE: NFPA 101 FIRE PREVENTION CODE 2017 5th EDITION

Lake City, Florida

New Generation Gym



SCOPE OF WORK:

TO SHOW INTERIOR BUILDOUT OF A 5000sf COMMERCIAL BUILDING. EXTERIOR: CONSTRUCTION, FINISH & DETAILS ARE ALL PERFORMED BY OTHERS.

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ENCLOSURE: ENCLOSED BUILDING

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PROJECT ANALYSIS:

2017 FLORIDA ACCESSIBILITY ANALYSIS
100% ADA COMPLIANT: YES
VERTICAL ACCESSIBILITY: YES
IDENTIFY 20% HANDICAP UPGRADES: YES
AN ACCESSIBLE ENTRANCE: YES
AN ACCESSIBLE ROUTE TO ALTERED AREA: YES
ACCESSIBLE RESTROOM(S): YES
ACCESSIBLE FOUNTAIN: N/R PER FPC 410.4

PLUMBING REQUIREMENTS BY PARCEL: OCCUPANT LOAD: 205 PER FBC 1004.1.2 205 / 2 = 103 MEN, 103 WOMEN PER FBC 403.1.1

		REQUIRED	PROVIDED
MEN	MC	1	3
	LAY	1	2
MOMEN	MC	1	3
MOMENT	LAY	2	2
	FTN	1	2
svc [MC	1	1

GENERAL NOTES:

ALL CONTRACTORS AND SUB-CONTRACTORS WILL THOROUGHLY

2. ALL CONTRACTORS AND SUB-CONTRACTORS WILL THOROUGHLY FAMILIARIZE THEMSELVES WITH THESE CONSTRUCTION DOCUMENTS AND WILL VERIFY EXISTING SITE AND BUILDING CONDITIONS PRIOR TO SUBMITTING A BID.

1. ALL CONSTRUCTION MUST COMPLY WITH ALL GOVERNING CODES.

3. SUB-CONTRACTORS BEFORE STARTING THEIR WORK WILL CHECK AND VERIFY THEIR PARTICULAR RELATED REQUIREMENTS FOR COMPLIANCE ALONG WITH MEASUREMENTS, SURFACE LEVELS, SURFACE CONDITIONS NEAR & ABOUT THEIR WORK. IT WILL BE CONCLUDED THAT EACH BIDDER UNDERSTANDS AND KNOWS WHAT WILL BE REQUIRED.

4. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL NOT HAVE CONTROL OF & WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES, OR SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK ON THE PROJECT OR FOR THE ACTS OR OMISIONS OF THE CONTRACTOR, SUB-CONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK ON THIS SITE.

5. ALL CONTRACTORS WILL PROVIDE ADEQUATE BRACING AND/OR SHORING TO INSURE STRUCTURAL STABILITY OF THE BUILDING AND ALL RELATED BUILDING COMPONENTS, I.E.: STRUCTURAL WALLS, INTERIOR WALL ASSEMBLIES ETC., DURING THE CONSTRUCTION PHASE OF THIS PROJECT.

6. ALL WORK WILL BE COORDINATED WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCE & PRESERVE MAXIMUM HEADROOM & AVOID OMISIONS. EACH CONTRACTOR WILL INCLUDE ALL MISCELLANEOUS ITEMS REQUIRED BY CODE AND NEEDS TO COMPLETE THIS WORK.

7. ALL MATERIAL USED WILL BE NEW & BEAR UL LABELS WHERE REQUIRED & MEET NEMA STANDARDS.

8. LAYOUT ALL PARTITIONS BEFORE BEGINNING CONSTRUCTION TO PREVENT ERRORS BY DISCREPANCY. ALL DRYWALL PARTITIONS WILL BE INSTALLED AS NOTED ON THE DRAWINGS.

DO NOT SCALE THE DRAWINGS.

9. VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING, CUTTING, AND/OR INSTALLING MATERIAL, PRODUCT OR EQUIPMENT. IN THE EVENT OF ANY DISCREPANCIES, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH THAT WORK.

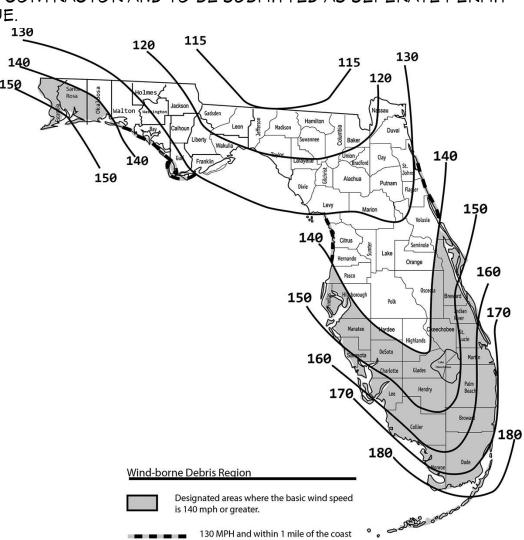
10. ALL SUB-CONTRACTORS WILL PROVIDE A CERTIFICATE OF INSURANCE TO THE OWNER PRIOR TO STARTING ANY WORK ON THIS PROJECT. CERTIFICATE OF INSURANCE CAN NOT BE TERMINATED OR CANCELED WITHOUT 10 DAYS PRIOR WRITTEN NOTICE TO THE OWNER.

11. NO SUBSTITUTIONS OF ANY KIND FOR MATERIALS SPECIFIED ON THESE CONSTRUCTION DOCUMENTS IS ALLOWED. NO "EQUIVALENT" SUBSTITUTIONS WILL BE MADE, UNLESS APPROVED IN WRITING BY THE ARCHITECT & APPROVED BY THE OWNER DUE TO THE LACK OF AVAILABILITY OF ORIGINAL, U.O.N. IN THESE DOCUMENTS

12. EACH CONTRACTOR IS RESPONSIBLE FOR THE FIRST CLASS WORKMANSHIP & WILL ASSUME ALL RESPONSIBILITY FOR THE CARE AND PROTECTIONS OF HIS OWN WORK & MATERIAL FRO DAMAGE. HE WILL MAKE GOOD ANY DAMAGE TO HIS OWN OR OTHER WORK CAUSED BY HIMSELF OR WORKMAN EMPLOYED BY HIM.

13.EACH CONTRACTOR WILL ABIDE BY LOCAL AREA STANDARDS & RELATED OSHA STANDARDS FOR THE SAFETY OF THEIR EMPLOYEES ON SITE. THIS ARCHITECT AND HIS PROFESSIONAL CONSULTANTS WILL BE HELD HARMLESS BY THE: OWNER, GC, AND RELATED AWARDED TRADES, ON THIS PROJECT FOR ACCIDENTS OR INJURIES CAUSED OR ACCRUED ON THIS PROPERTY DURING CONSTRUCTION PHASES OF THIS PROJECT.

14. SHOULD FIRE ALARM & SPRINKLER DRAWINGS BECOME A REQUIREMENT, IT WILL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND TO BE SUBMITTED AS SEPERATE PERMIT ISSUE.



PLUMBING NOTES:

A - CONTRACTOR IS RESPONSIBLE FOR PERFORMING FIELD ASSESSMENT TO VERIFY & ENSURE INFORMATION WITHIN THESE DRAWINGS ARE AN ACCURATE REPRESENTATION.

B - THE WORK SHALL CONFORM TO ALL FEDERAL, STATE & LOCAL CODES/ORDINANCES. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL.

C - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCES. ALL MATERIAL, WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE YEAR AFTER SYSTEM HAS BEEN ACCEPTED.

D - DO NOT SCALE DRAWINGS

E - PLUMBING CONTRACTOR SHALL MAINTAIN A CURRENT SET OF PLUMBING DRAWINGS AT THE PROJECT SITE TO BE USED FOR CONSTRUCTION PROGRESS, REVIEW & FUTURE "AS-BUILTS". ALL MARKS AND REVISIONS SHALL BE MADE WITH RED PENCIL/PEN AND SHALL BE LEGIBLE & ACCURATE. SUBMIT DRAWINGS TO AOR AT THE COMPLETION OF WORK FOR REVISION.

F - SANITARY WASTE AND VENT PIPING ABOVE GRADE SHALL BE SCH. 40 SOLVENT WELDED FITTINGS. COLD WATER PIPING SHALL BE SCH. 40 W/ MATCHING SOLVENT WELDED FITTINGS. HOT WATER PIPING SHALL BE SCH. 40 CPVC W/ MATCHING SOLVENT WELDED FITTINGS.

G - PLUMBING FIXTURES SHALL BE AS SCHEDULED ON DRAWING. PROVIDE CONTROL STOP VALVES IN EA. SUPPLY TO EA. FIXTURE. THE FINISH OF FITTINGS, ACCESSORIES & SUPPLY EXPOSED TO VIEW SHALL BE CHROME PLATED.

H - PENETRATIONS: PROVIDE CHROME PLATED BRASS ADJUSTABLE ESCUTCHEON PLATES AT EXPOSED PIPE PENETRATIONS THROUGH WALLS, PARTITIONS, CEILINGS & FLOORS.

I - TESTING WATER SYSTEM: TEST THE ADDED PORTION OF THE PLUMBING SYSTEM @ 150% OF DESIGN PRESSURE, BUT NOT LESS THAN 100 PSIG. ALLOW PRESSURE TO REMAIN FOR 24 HOURS. INSPECT EVERY JOINT FOR LEAKS WHILE UNDER TEST PRESSURE. REPAIR ALL LEAKS DETECTED WITH NEW MATERIAL & RETEST.

ELECTRICAL NOTES:

A - THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK AS INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE AOR/EOR AS SOON AS POSSIBLE; FIELD ALLOCATED DECISIONS IN ARE NOT TO BE PERFORMED WITHOUT AOR/EOR APPROVAL TO ADDRESS THESE ISSUES.

B - CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND FAMILIARIZE HIMSELF/HERSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL & COMMUNICATIONS INSTALLATION. IT IS CONTRACTORS RESPONSIBILITY TO MAKE PROVISIONS TO THE COST THEREOF.

C - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CODE/ ORDINANCE AUTHORITATIVE JURISDICTION & THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. THE SPECIFICATION, CODES & STANDARDS LISTED ARE UTILIZED IN THIS PROJECT: NFPA-70, NFPA-101, UL, NEMA, ANSI, FED. SPEC., IPCEA, IEEE, OSHA.

D - DO NOT SCALE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNERS REPRESENTATIVE/CONSULTANT.

E - 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 FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.

MECHANICAL NOTES:

A - IT IS CONTRACTORS RESPONSIBILITY TO ASSESS REFERENCED INFORMATION WITHIN THESE PLANS TO ENSURE ACCURACY PRIOR TO BID, OR COMMENCEMENT OF WORK

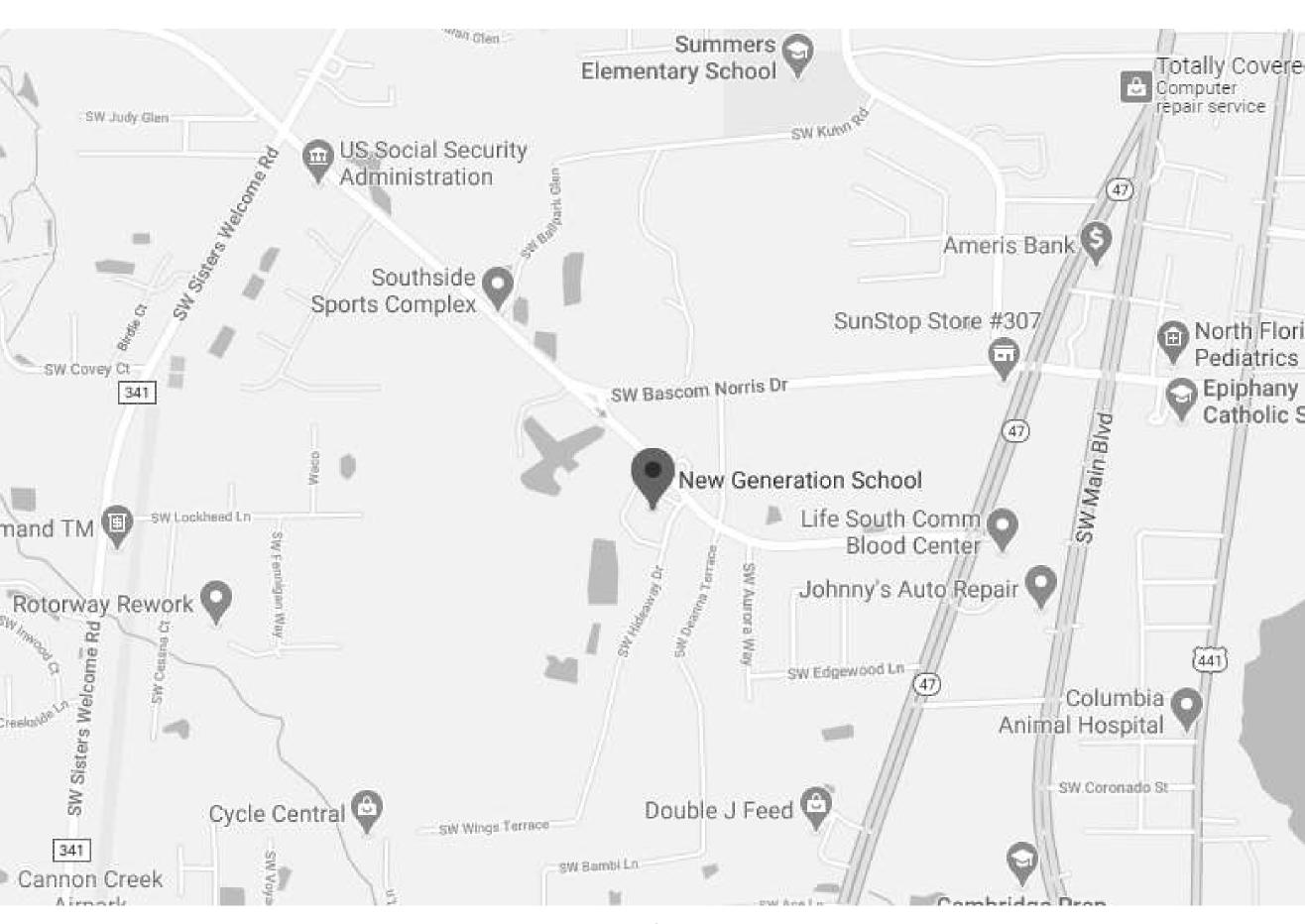
B - ALL WORK SHALL BE DONE IN CONFORMITY WITH THE LATEST EDITION OF ALL APPLICABLE CODES AND AUTHORITY HAVING JURISDICTION

C - ALL INFORMATION ILLUSTRATED WITHIN THESE PLANS ARE ACCORDING TO CONSTRUCTION DOCUMENTATION PROVIDED, OR INFORMATION GATHERED BY AOR/EOR TO THE BEST OF THEIR ABILITY. AOR/EOR MAKES NO REPRESENTATION FOR THE ACCURACY OF GIVEN INFORMATION AS ILLUSTRATED WITHIN DRAWINGS. INFORMATION, MATERIALS, EQUIPMENT, DIMENSIONS, CONDITIONS, ETC SHALL BE FIELD VERIFIED

D - ALL WORK SHALL BE DONE IN STRICT COORDINATION AND AS APPROVED BY OWNER. ALL INTERRUPTIONS IN THE FUNCTIONING OF MECHANICAL SYSTEMS SHALL BE DONE DURING OFF-PEAK, OR UNOCCUPIED TIME (STRICTLY APPROVED BY OWNER).

E - CONTRACTOR IS RESPONSIBLE FOR COORDINATING INFORMATION REQUEST AND WORK PERFORMED. ANY REQUEST FOR INFORMATION PERTAINING TO CONFLICT OF WORK BEING PERFORMED THAT IS ILLUSTRATED ON THESE PLANS IS TO BE REFERENCED TO AOR/EOR THE MOMENT IT IS NOTICED.

F - ALL A/R GRILLES SHALL BE PROVIDED WITH PROTECTIVE CONSTRUCTION FILTERS AND A/C UNITS SHALL HAVE THEIR FILTERS REPLACED NEW ONES AT THE END OF THE CONSTRUCTION PERIOD.



Location Map

Scale - No Scale



Parcel Map

Scale - No Scale

O9/03/20

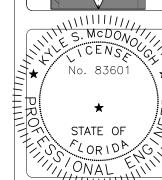
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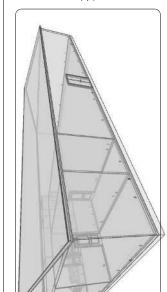
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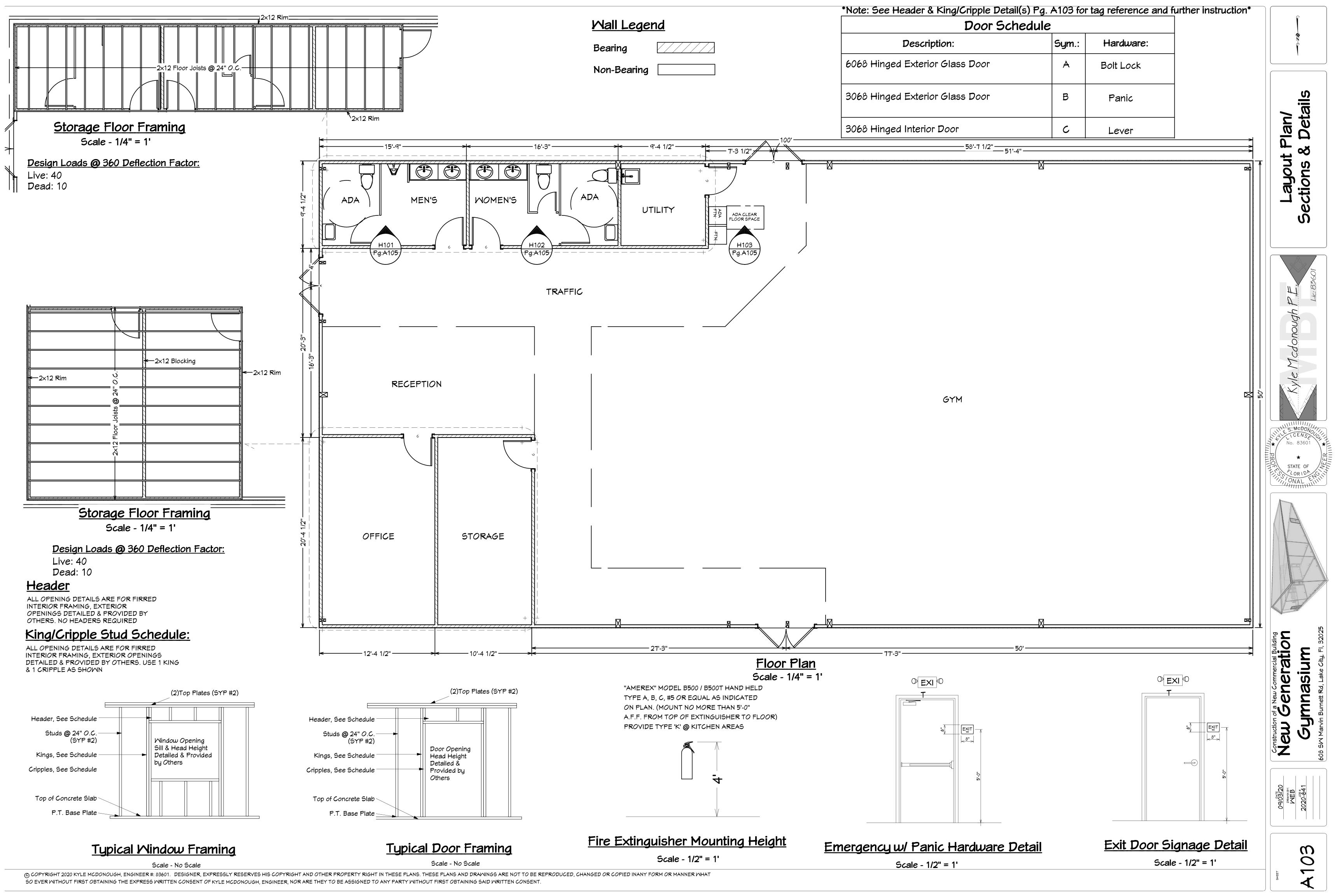
© COPYRIGHT 2020 KYLE MCDONOUGH, ENGINEER #: 83601. DESIGNER, EXPRESSLY RESERVES HIS COPYRIGHT AND OTHER PROPERTY RIGHT IN THESE PLANS. THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED INANY FORM OR MANNER WHAT SO EVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN CONSENT OF KYLE MCDONOUGH, ENGINEER, NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT FIRST OBTAINING SAID WRITTEN CONSENT.

Project Analysis, Project Data/

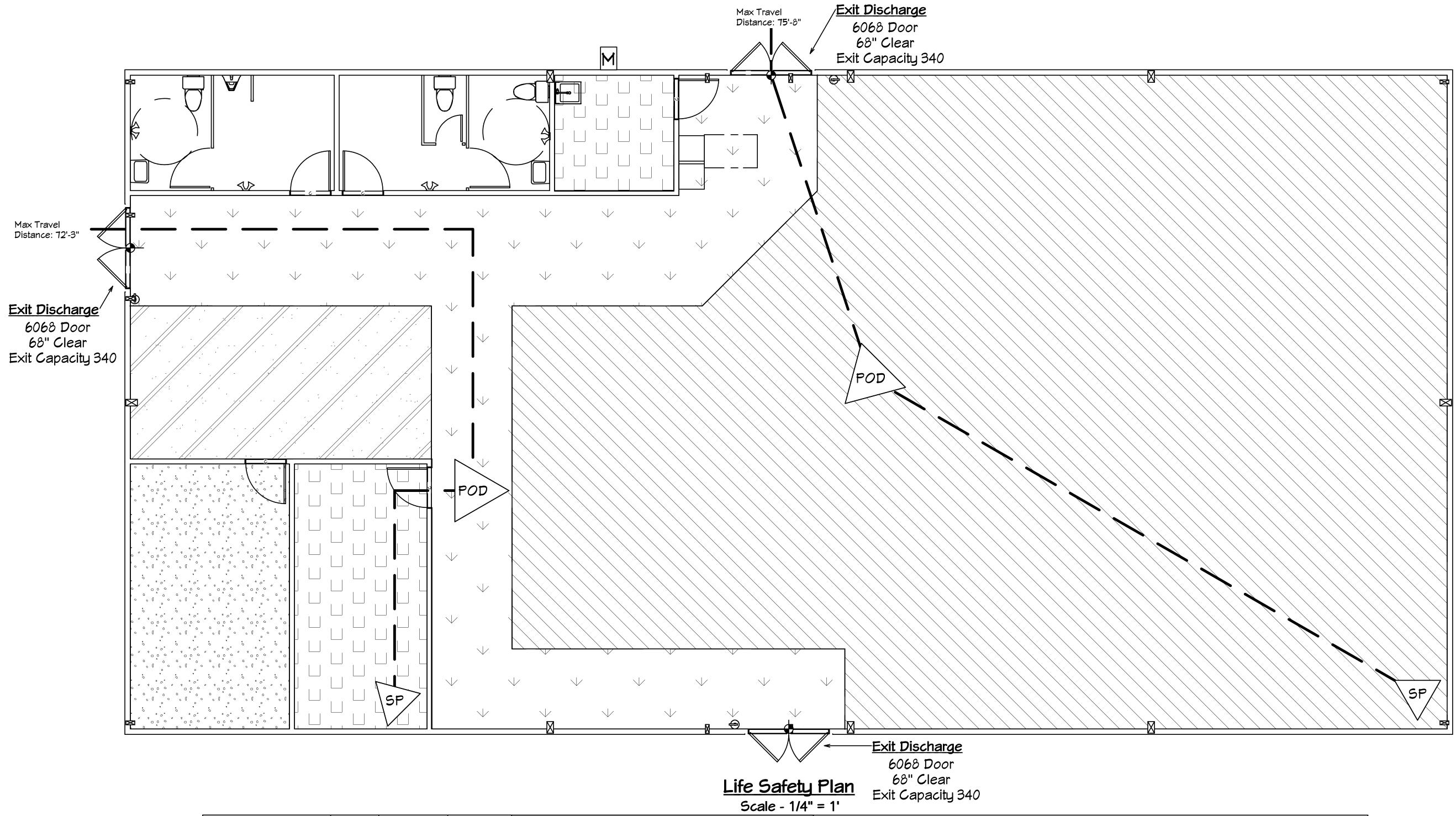
Kyle Mcdonough P,











					Scale - 1/2	1 = 1			
Reception Area	SF	MAX OCC.	SEAT COUNT		Life Safety Plan Legend	Δο	sembly Use	Analusis (Gu	m)
	260			SP	Starting Point	<u> </u>	serring use i	Allaigsis (Ogi	<u>11)</u>
1 per 100sf (Gross)	260	3	-				Project Information	Code Ref	erences Used
Office Space						Code Requirements	±5000 S.F. Unsprinkled Unprotected	2017 FBC 6th Edition	2017 Fire Prevention Code 5th Edition, NFPA 101
	240	3	-	POD	Point of Decision	Occupancy Use:	Group A3 (Gym)	303.3 - Assembly	NFPA 101.6.1.11
1 per 100sf (Gross)					Exit Sign w/ Emergency	Required Separation:	N/R	508.4	NFPA 101 6.1.14.4.1 (B)
General Area	2965	198	-	+	Flood Lighting & Battery Back-Up	Construction Type:	Type V- B	603	
1 per 15sf (<i>Gross</i>)					Emergency Flood Light	Occupant Load:	205 (Max)	1004.1.2	NFPA 101 7.3.1.2
Utility/Storage Areas				❖	w/ Battery Back-Up	Egress Midth:	204"	1005.1	NFPA 101 7.3.3.1
	278	1	-	⊖	Fire Extinguisher	Max Travel Distance:	75'-8"	1016.2 (250' Allowed)	NFPA 101.37.2.6.1 (250' Allowed)
1 per 300sf (Gross) (Non-Hazardous Storage) Egress Paths				R	Emergency 24 Hr. Light w/ Battery Back-Up**		<u>Gymnasiur</u>	n Egress	(255 / 11155556)
				l	'				

UL-U419 2Hr. Mall

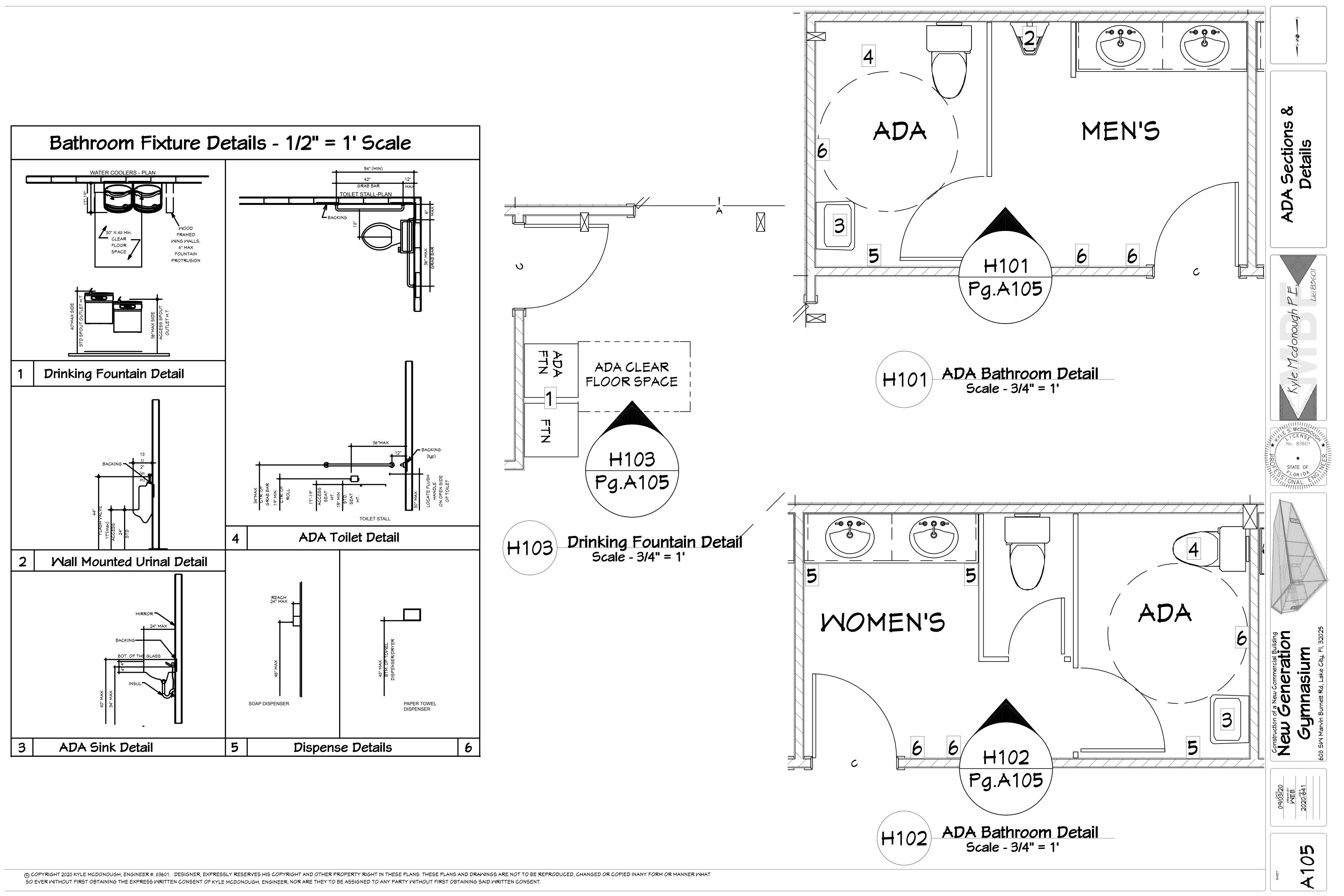
Electric Meter Can Location

M

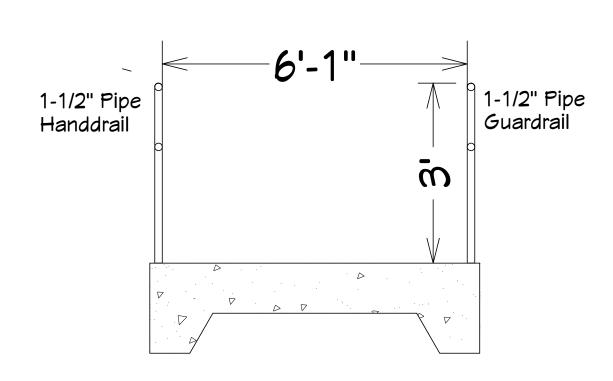
Egress Width Doors 205 Occupants * 0.2

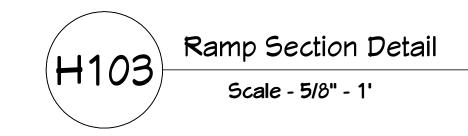
= 41" of Egress Required (Min.)= 204" of Egress Provided

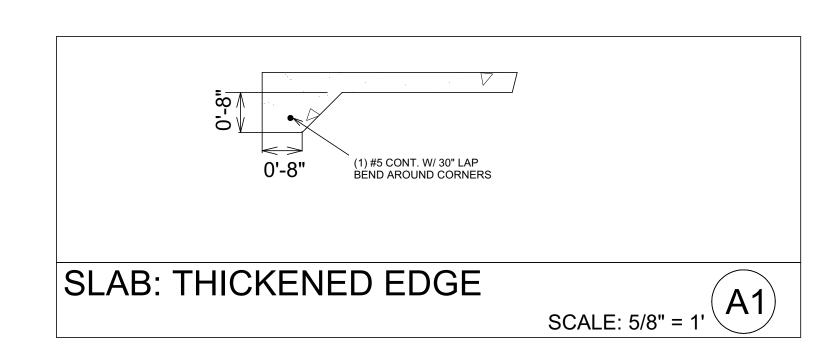
204" / 0.2 = 1020 Occ. Capacity (Actual 205)

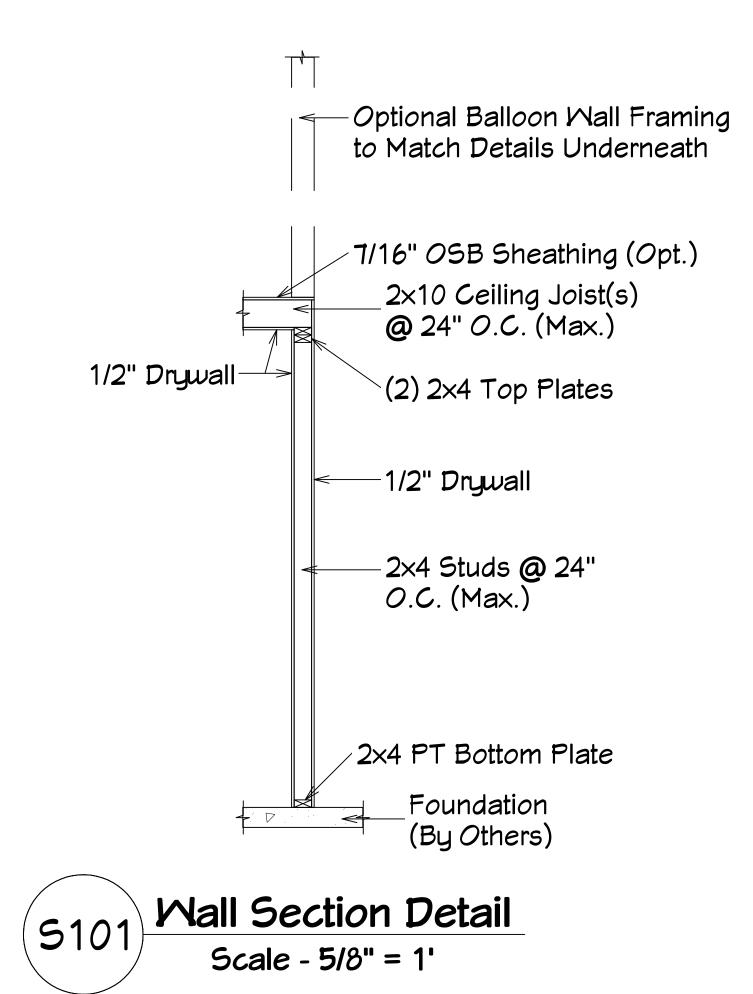


1-1/2" Pipe Size Min. 12" Extension 1/12 Slope Porch Ramp

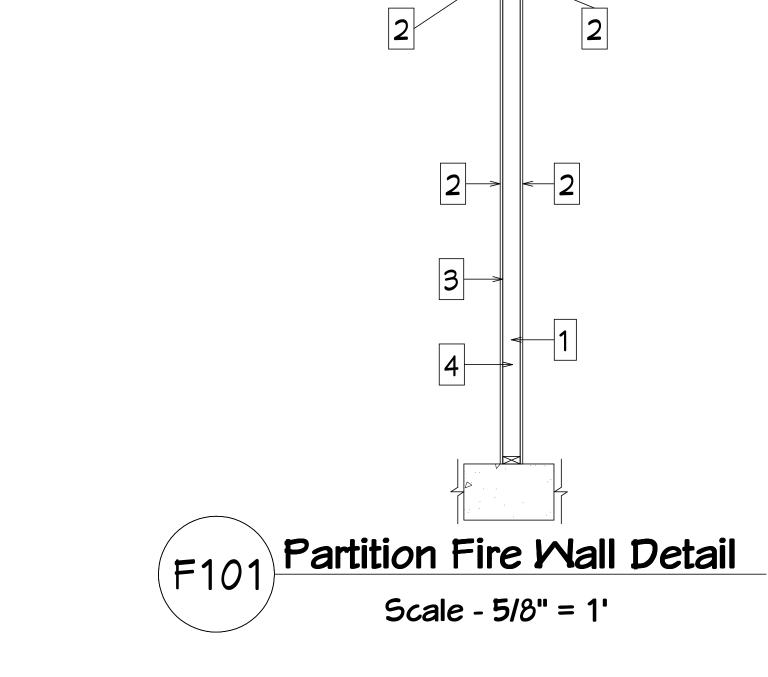


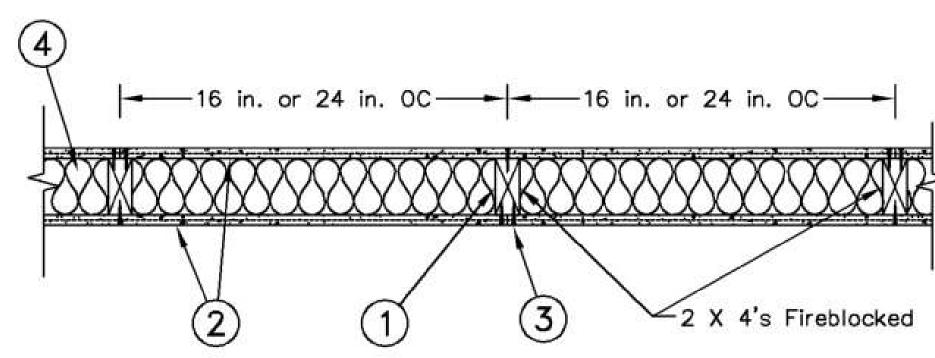






Note: Wall is Balloon Framed, Field Frame & Measure





Configuration A

Fire Wall & Ceiling Notes:

Design No.: U419 - June 19, 2018 - Bearing 2hr Wall Rating

- 1. Wood Studs Nom 2 by 4 in., spaced 16 in. OC, effectively firestopped
- 2. Gypsum Board* Nominal 5/8 in. thick, 4 ft wide panels, applied vertically to stude and bearing plates with 1-5/8 in. long Type S screws spaced 12 in. OC at perimeter of panels and 8 in. OC in the field. Vertical joints need not be staggered on opposite sides of wall. Horizontal joints of vertically applied panels need not be backed by studs. Finish rating 23 min
- 3. Joints and Screwheads Panel joints covered with paper tape and two layers of joint compound. Screwheads covered with two layers of joint compound.
- 4. Batts and Blankets* Glass fiber insulation, nom 3-1/2 in. thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities.

DUCTBOARD SEALED PER -

SPIN-IN TAP W/DAMPER

3/4" DOOR UNDERCUT

DUCT MOUNTED SMOKE DETECTOR

INTERIOR DESIGN CONDITIONS

MULTI-DUCT HANGER

-PUSH NUTS

50% R.H. +/- 10%

SUMMER 75°F, +/- 3°F

WINTER 72°F

SMOKE DETECTOR AUDIO/VISUAL ALARM

CONDENSATE DRAIN

FLEXIBLE DUCT

THERMOSTAT

SPECIFICATIONS.

RIGID ROUND DUCT JOINT

SCREWED & SEALED

T-BAR TYPE/GYP SUSPENDED CEILING

METAL BAND

-NYLON DRAW BAND (TYP)

— MANUAL VOLUME DAMPER (TYP)

SUPPORT

PROVIDE 1" BLANKET

DEVICE BACK

CEILING DIFFUSER DETAIL

SUPPLY DIFFUSER

RETURN REGISTER

MOTORIZED DAMPER

BACKDRAFT DAMPER

EXTERIOR DESIGN CONDITIONS

WINTER DRY BULB 29°F

HANGER STRAPS

ANGLES —

STRAP HANGER

SUMMER DRY/WET BULB 96°F/77°F

TRAPEZE HANGER

INSULATION COVERING AIR

MECHANICAL LEGEND

DESIGN CONDITIONS

FLEX DUCT WITH

LENGTH 5'-0"

NECK

EXTERNAL INSULATION MAX.

- AIR DIFFUSER WITH ROUND

TIE OFF TO ROOF

STRUCTURE

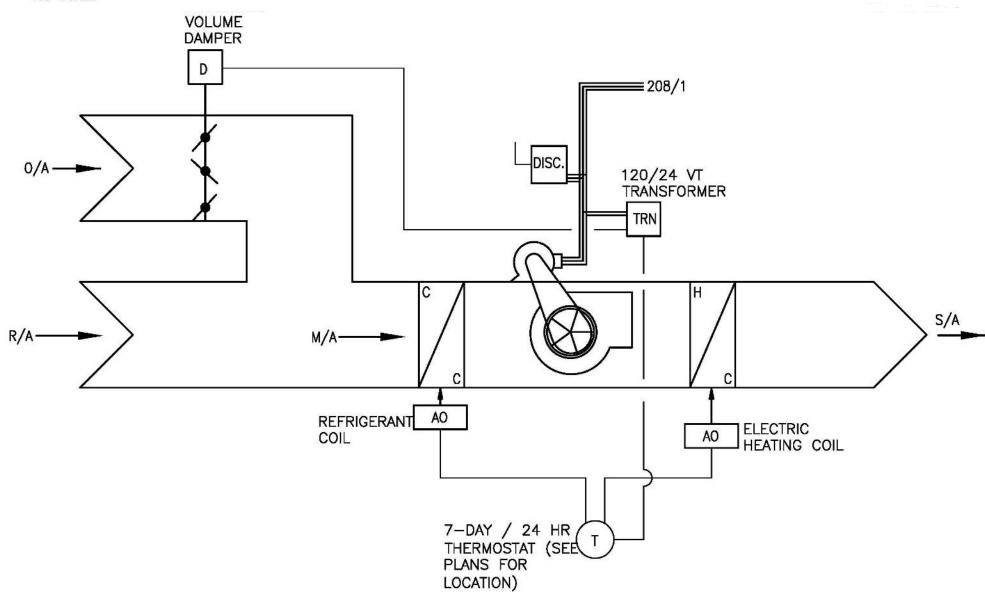
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ATTACH TAP TO MAIN DUCT WITH MALE SHIPLAP ON SLEEVE END — AROUND --PROVIDE GRILLE MANUFACTURER'S OPPOSED BLADE VOLUME PROVIDE METAL "L" FRAME ATTACHED TO DUCT TAP WITH SCREWS AND WASHERS, ATTACH GRILLE FACE TO FRAME WITH MAIN SUPPLY DUCT

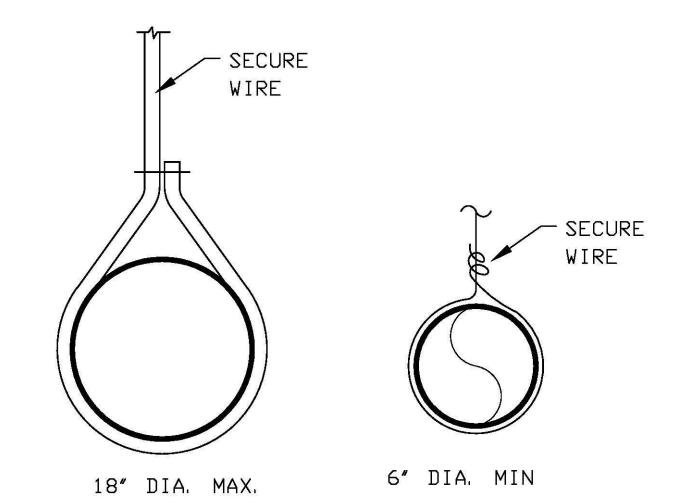
NOTE: REFER TO SMACNA FIBROUS GLASS DUCT CONTRUCTION STANDARDS FIGURE 2-33 FOR ADDITIONAL INFORMATION

<u>SIDEWALL DIFFUSER DETAIL —</u> FIBROUS GLASS DUCT

NO SCALE



PACKAGE UNIT CONTROL SCHEMATIC



CONSTRUCTION NOTES

- EXISTING EA DUCT TERMINATING AT WALL LOUVER
- 7 DAY 24 HOUR THERMOSTAT PROGRAMMABLE THERMOSTAT.
- 8" OA DUCT WITH BACKDRAFT DAMPER UP TO 12x12 OA DUCT, ROUTE DUCT THROUGH EXTERIOR WALL, AS SHOWN, TURN DUCT DOWN AND COVER WITH BIRD SCREEN EXISTING 12x12 EA DUCT TERMINATING AT 12x12 WALL LOUVER RUSKIN ELF62750X WITH INSECT SCREEN
- NEW 6" EA DROP DOWN WALL WITH MANUAL BALANCING DAMPER AND ALONG FLOOR. TERMINATE AT MANFACTURER'S EXHAUST AIR CONNECTION POINT.
- RELOCATE EXISTING SUPPLY DIFFUSER. EXTEND RUN OUT, AS REQUIRED TO ACCOMMODATE
- NEW SUPPLY AIR DIFFUSER WITH 6" RUN OUT.

AHU SEQUENCE OF OPERATION

- 1. SUPPLY FAN IS ENERGIZED BY A TWO POSITION SWITCH. WHEN THE SWITCH IS CLOSED IT SHALL ENERGIZE THE SYSTEM PROVIDING POWER TO ALL COMPONENTS AND LOW VOLTAGE CONTROL TO ALL CONTROL DEVICES, AND OPEN THE MINIMUM OUTSIDE AIR DAMPER.
- SYSTEM SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT DEVICE CONTROLLING SPACE TEMPERATURE. THE THERMOSTAT SHALL INCLUDE OFF-AUTO-COOLING-HEATING MODES AND TIME-DAY-WEEK SCHEDULING CAPABILITIES. THERMOSTAT SHALL BE SET TO "AUTO" MODE. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE
- COMPRESSOR/S SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE SETPOINT THE SUPPLY FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE ELECTRIC
- HEAT SHALL ENERGIZE TO MAINTAIN ROOM TEMPERATURE SETPOINT. 6. THE SYSTEM SHALL IMPOSE A 30 SECOND TIME DELAY TO RESTART THE SUPPLY FAN, COMPRESSORS, AND CONDENSER FANS AFTER SYSTEM SHUT
- PROVIDE 7 DAY/24 HOUR PROGRAMMABLE THERMOSTAT TO INSURE UNIT IS DE-ENERGIZED DURING UNOCCUPIED HOURS.

GENERAL NOTES AND SPECIFICATIONS

- ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE MECHANICAL. SUPPLY DUCTS AND ALL RETURN DUCTS LOCATED IN AREAS OTHER THAN THE POOL SHALL BE RIGID, FIBERGLASS DUCT-BOARD, 1.5" THICK. FLEXIBLE DUCTS SHALL BE R-6.5 UL LISTED CLASS 1 AND NOT EXCEED 5' IN LENGTH, RUN-OUTS WHERE DISTANCES TO DIFFUSER EXCEED 5' SHALL BE SINGLE WALL ROUND DUCT WITH EXTERNAL INSULATION. DUCT WORK LOCATED IN THE POOL AREA SHALL BE MADE IN ITS ENTIRETY OF ALUMINUM. ROOF—TOP AIR SYSTEM FOR THE SPACE SHALL BE BY UNIT LISTED OR ENGINEER APPROVED EQUAL, PROVIDE 1" THICK MEDIUM EFFICIENCY PLEATED FILTERS, PROVIDE NEW PRO PROVIDE 1 YEAR WARRANTY ON LABOR AND MATERIAL BY CONTRACTOR, AND MANUFACTURER'S WARRANTY ON ANY NEW EQUIPMENT.
- ANY FIELD CHANGES AS A RESULT OF VALUE ENGINEERING SHALL BE COMMUNICATED TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMMENCEMENT OF VALUE ENGINEERING WORK. ENGINEERING PLAN REVISIONS REQUIRED BY BUILDING INSPECTORS TO MATCH VALUE ENGINEERING CHANGES SHALL BE COMPENSATED TO THE ENGINEER AT A NEGOTIATED AMOUNT BY THE SUB-CONTRACTOR ENACTING THE VALUE ENGINEERING CHANGE.
- MECHANICAL CONTRACTOR SHALL PROVIDE TO ARCHITECT A COMPLETE TEST AND BALANCE REPORT, PERFORMED BY AN AABC OR NEBB CERTIFIED CONTRACTOR, UPON COMPLETION OF THE PROJECT.

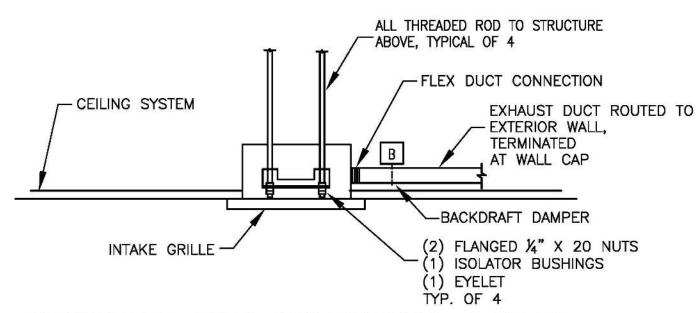
BASIC OF DESIGN

LOREN COOK GC-168

LOREN COOK GC-146

LOREN COOK GC-146

LOREN COOK GC-168



EXHAUST FAN MOUNTING DETAIL NOT TO SCALE

TVDE	CED HOE	CFM I	RANGE	MODULE	NEOK 'N'	MODEL	
TYPE	SERVICE	MIN	MAX	SIZE	NECK 'N'	MODEL	
Α	SUPPLY-CEILING	0	140	24x24	6"	TITUS - TMS-I	
		141	325	24x24	8"	TITUS - TMS-I	
		326	475	24x24	10"	TITUS - TMS-I	
		476	650	24x24	12"	TITUS - TMS-I	
		651	900	24x24	14"	TITUS - TMS-I	
		901	1200	24x24	15"	TITUS — TMS—I	
В	RETURN/EXHAUST	0	150	24x24	6"	TITUS 50F	
	CEILING	151	260	24x24	8"	TITUS 50F	
		261	450	24x24	10"	TITUS 50F	
		4 51	695	24x24	12"	TITUS 50F	
		696	900	24x24	14"	TITUS 50F	
		901	1200	24x24	16"	TITUS 50F	
С	SUPPLY - CEILING	0	120	12x12	6"	TITUS - TDC	
		121	210	12x12	8"	TITUS - TDC	
D	SUPPLY - SIDEWALL	0	165	8X6	-	TITUS - 300FL	
		166	275	12X6	-	TITUS - 300FL	
		276	400	12X8	2 3	TITUS - 300FL	
		401	495	12X10	-	TITUS - 300FL	
		496	595	18X10	? 	TITUS - 300FL	
		596	695	18X12	=	TITUS - 300FL	
		696	800	18X14	% >	TITUS - 300FL	
		801	995	24X14	(, ,(TITUS - 300FL	
		996	1100	36X12	9 9	TITUS - 300FL	

- DIFFUSER RUNOUT SIZE SHALL BE DIFFUSER NECK SIZE, UNLESS OTHERWISE NOTED ON DRAWINGS. COORDINATE COLOR OF DIFFUSERS WITH INTERIOR DESIGNER.
- PROVIDE OPPOSED BLADE VOLUME DAMPER INSTALLED ON BACK-SIDE OF SUPPLY/RETURN REGISTERS INSTALLED IN GYPSUM CEILINGS. PROVIDE STARTING COLLAR WITH BALANCING DAMPER AT FLEX DUCT CONNECTION ALL OTHER SUPPLY/RETURN REGISTERS/DIFFUSERS.
- PROVIDE SURFACE MOUNT FRAME TYPE FOR DIFFUSERS INSTALLED IN GYPSUM/HARD CEILINGS AND 24"X24" MODULE LAY-IN FOR T-BAR DROP CEILINGS.

	FAN	SCHEE	ULE					
TYPE	CFM	STATIC PRESS.	МОТ	OR	VOLT/	DRIVE	STATUS	FAN
TIPE	CFM	IN. WG.	RPM	HP	PHASE	TYPE		INTERLOCK
CEIL	150	0.33	1160	52.2	115/1	В	NEW	OCC SENSOR
CEIL.	70	0.33	900	30.9w	115/1	D	NEW	OCC SENSOR
CEIL.	70	0.33	900	30.9w	115/1	D	NEW	OCC SENSOR
CEIL	150	0.33	1160	52.2	115/1	В	NEW	OCC SENSOR

NOTES: 1. PROVIDE SPEED CONTROLLER, INSECT SCREEN, BACK DRAFT DAMPER, WALL CAP, VIBRATION ISOLATION KIT, DISCONNECT.

2. EXTRA BELT, INSECT SCREEN, BACK DRAFT DAMPER, VIBRATION ISOLATION KIT, DISCONNECT.

TVDE	SERVICE	CFM I	RANGE	MODULE	NECK 'N'	MODEL
TYPE	SERVICE	MIN	MAX	SIZE	NECK N	MODEL
Α	SUPPLY-CEILING	0	140	24x24	6"	TITUS - TMS-I
		141	325	24x24	8"	TITUS — TMS—I
		326	475	24x24	10"	TITUS - TMS-I
		476	650	24x24	12"	TITUS - TMS-I
		651	900	24x24	14"	TITUS - TMS-I
		901	1200	24x24	15"	TITUS — TMS—I
В	RETURN/EXHAUST	0	150	24x24	6"	TITUS 50F
	CEILING	151	260	24x24	8"	TITUS 50F
		261	450	24x24	10"	TITUS 50F
		4 51	695	24x24	12"	TITUS 50F
		696	900	24x24	14"	TITUS 50F
		901	1200	24x24	16"	TITUS 50F
С	SUPPLY - CEILING	0	120	12x12	6"	TITUS - TDC
		121	210	12x12	8"	TITUS - TDC
D	SUPPLY - SIDEWALL	0	165	8X6	_	TITUS - 300FL
		166	275	12X6	-	TITUS - 300FL
		276	400	12X8	::	TITUS - 300FL
		401	495	12X10	N==1	TITUS - 300FL
		496	5 9 5	18X10	2-3	TITUS - 300FL
		596	695	18X12	-	TITUS - 300FL
		696	800	18X14	8 >	TITUS - 300FL
		801	995	24X14	s=.	TITUS - 300FL
		996	1100	36X12	-	TITUS - 300FL

	HAN	GER SIZES FOR REC	TANGULAR DUCT	
LONGEST DIMENSION OF DUCT	ROUND HANGERS	STRAP HANGERS	TRAPEZE STRAP HANGERS	MAXIMUM SPACING
UP THRU 18"	8 GA. WIRE	1"X22 GAUGE	1"X1"X1/8"	10'-0"
19" THRU 30"	8 GA. WIRE	1"X22 GAUGE	1"X1"X1/8"	10'-0"
31" THRU 42"	3/8" ROD	1"X18 GAUGE	1-1/2"X1-1/2"X1/8"	10'-0"
43" THRU 60"	3/8" ROD	1"X18 GAUGE	1-1/2"X1-1/2"X1/8"	10'-0"
61" THRU 84"	3/8" ROD	1"X18 GAUGE	2"X2"X1/8"	8'-0"
85" THRU 96"	3/8" ROD	1"X18 GAUGE	2"X2"X3/16"	8'-0"
97" THRU 120"	3/8" ROD	1"X16 GAUGE	2"X2"X1/4"	8'-0"

RETANGULAR DUCT HANGERS

Mechanical Notes

System Specifications

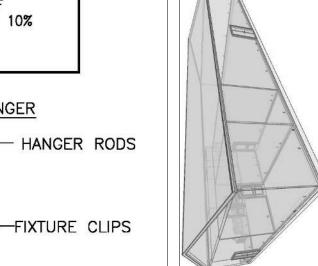
Symbol:	Tons:	Ind Model:	Out Model:	CFM:	OA:	Ext SP:	HP:	EDB:	EMB: Se	en MBH:	Total MBH:	Heat KM:	Indoor MCA:	Indoor MOCP:	Indoor V/P:	Outdoor MCA:	Outdoor MOCP:	Outdoor V/P:	Seer: In	d Mt.: O	Out Mt.:
PCKG	5	ZPC060	ZPC060	1850	105	.5	1/3	80	67	54	60	6.5	-	-	1	40	60	208/1	14	-	344
MSMZ	1.5	18CHV2	90H5V5	1050	105	.5	1/8	80	67	14	18	6.5	10	20	-	20	30	208/1	22 8	30	140

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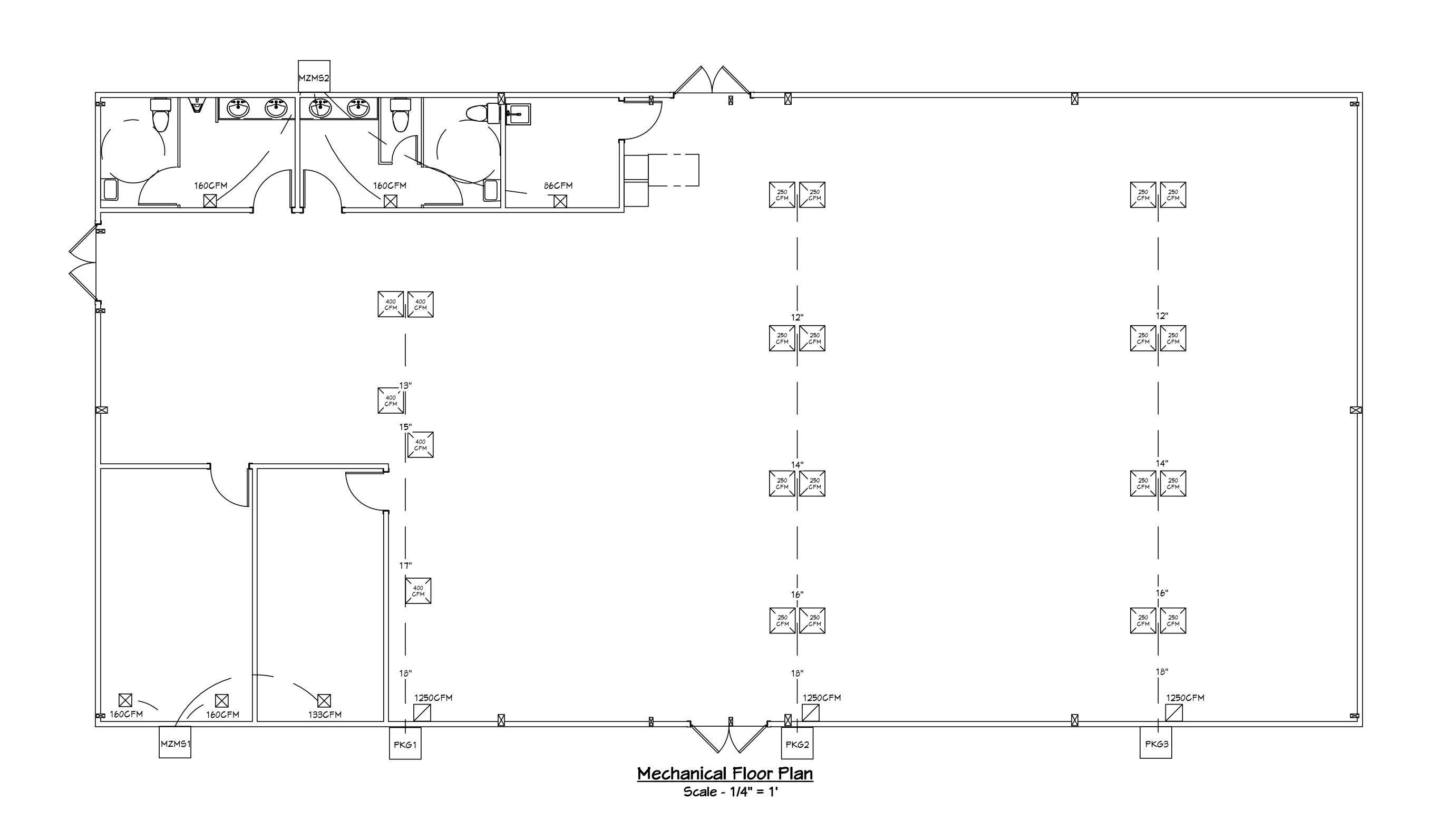
EF-1

EF-3

EF-4







2. NOTIFY THE ARCHITECT/OWNER/BUILDER OF ANY IMPACT FEES REQUIRED BY THE COUNTY OR LOCAL UTILITY CO.

3. ALL MATERIALS, EQUIPMENT AND APPARATUS SHALL BE NEW, OF CURRENT MANUFACTURE AND SHALL BEAR THE SEAL OF APPROVAL OF THE UNDERWRITERS LABORATORIES. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT APPERANCE WHEN COMPLETED.

4. FURNISH AND INSTALL ALL EQUIPMENT NECESSARY FOR TEMPORARY LIGHTING AND POWER FOR ENTIRE JOB SITE. ENERGY COST PAID BY OTHERS.

5. IN GENERAL, THE CONDUIT INSTALLATION SHALL FOLLOW THE LAYOUT SHOWN ON THE PLANS. THIS LAYOUT IS HOWEVER DIAGRAMMATIC ONLY, AND WHERE CHANGES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS, OTHER APPARATUS OR OTHER CAUSES, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER. IT IS RECOGNIZED THAT BRANCH CIRCUIT ROUTING SHOWN ON THE DRAWINGS MAY NOT ALWAYS BE THE MOST ECONOMICAL OR THE MOST FEASIBLE METHOD. ROUTING MAY BE CHANGED BY THE CONTRACTOR AND INSTALLED PER THE LATEST NEC.

6. ALL CONDUCTORS SMALLER THAN 3/0 SHALL BE COPPER THHN WITH NOT LESS THAN 98% CONDUCTIVITY. CONDUCTORS 10-14 MAY BE SOLID OR STRANDED

7. ALL RECEPTACLE CIRCUITS SHALL BE SEPERATE FROM LIGHTING CIRCUITS. ALL NON-LINEAR LOADS SHALL HAVE A SEPERATE NUETRAL WIRE FOR EACH CIRCUIT

8. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY CATALOG NUMBERS IN THE FIXTURE SCHEDULE TO ENSURE IT MATCHES THE DESCRIPTION GIVEN AND FOR PROPER CEILING MOUNTING, REQUIRED ACCESSORIES, ETC.

9. ALL CONDUIT AND BOXES PASSING THROUGH OR INSTALLED WITHIN FIRE WALLS AND SMOKE WALLS SHALL BE INSTALLED SO AS TO MAINTAIN THE INTEGRITY OF THE WALL THROUGH WHICH IT PASSES. BOXES TO BE INSTALLED WITH 1/8" OF WALL SURFACE.

10. THE CONTRACTOR SHALL LEAVE THE ENTIRE ELECTRICAL SYSTEM INSTALLED BY HIM UNDER THIS CONTRACT IN PROPER WORKING ORDER AND SHALL REPLACE, WITHOUT ADDITIONAL CHARGE, ALL WORK OR MATERIAL WHICH MAY DEVELOP DEFECTS, ORDINARY WEAR AND TEAR OR DAMAGE RESULTING FROM IMPROPER HANDLING EXCEPTED, WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF FINAL INSPECTION AND ACCEPTANCE FROM THE ARCHITECT OR OWNER. BALLASTS SHALL BE INCLUDED BUT LAMPS SHALL BE EXCLUDED

		LIC	HTING	FIXTURE	SCH	HED	UL	_E	
TYPE	FIXTURE DESCRIPTION	N	MANUFACTURER AND CAT	ALOG NO.	VOLT	INPUT VA	NO.	LAMP TYPE	REMARKS
Α	2X4 LAY IN LED	COOPER	24FP6440C		120	62	_	4000K LED	_
В	2X2 LAY IN LED	COOPER	22FP4240C		120	32	_	4000K LED	_
С	6" RECESSED CAN LED	COOPER	RL560WH12935/H750	CAT	120	12	_	3500K LED	=
D	STRIP LIGHT LED	COOPER	4WSL-LD2-60-SRS-U	INV-L840-CD1-U	120	56	_	4000K LED	=
EM1	EMERGENCY LIGHT	COOPER	APEL		120	1.5		LED	=
EX	EXIT/EMERGENCY COMBO LIGHT	COOPER	APC7R		120	1.5	_	LED	1.1
F	SURFACE MOUNTED LED	BARN LIGHT	BLE-F-WHS16-XXX-F	M-NA-WGG-FST-NA-E26	120	12	_	4000K LED	PROVIDE LED LAMP
G	WALL PACK LED	COOPER	XTOR3B-W-XX		120	26	-	4000K LED	_
Р	PENDANT LIGHT LED	BARN LIGHT	BLE-C-WHS12-SBK-F	NA-FST-NA-LED16-3000K	120	16	_	3000K LED	Ξ.

GENERAL NOTES:

- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY CATALOG NUMBERS IN THE FIXTURE SCHEDULE TO ENSURE IT MATCHES THE DESCRIPTION GIVEN AND FOR PROPER CEILING MOUNTING, REQUIRED ACCESSORIES, ETC.
- 2. CONNECT EXIT LIGHTS AND EMERGENCY BALLASTS OF FIXTURES DENOTED AS EMEGENCY TO UNSWITCHED LIGHTING CIRCUIT
- SEE ARCHITECTURAL CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES.
- 4. EXAMINE EXISTING CONDITIONS PRIOR TO BID AND COMPARE WITH NEW WORK. REPORT ANY OBSERVED DESCREPANCIES.
- 5. INTERLOCK EXHAUST FAN WITH RESPECTIVE AHU. PROVIDE REQUIRED #12 WIRE IN CONDUIT. SEE MECHANICAL DRAWINGS, FAN SCHEDULE, FOR INTERLOCK.
- 6. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR TO PROVIDE ADEQUATE WORKING SPACE IN FRONT OF ALL PANELBOARDS, MOTOR STARTERS AND FUSED DISCONNECT SWITCH. WORKING SPACE SHALL BE CLEAR OF PIPES AND DUCTS. ANY CODE VIOLATION AS A RESULT OF LACK OF COORDINATION SHALL BE RECTIFIED AT NO COST TO OWNER.
- 7. LOAD CALCULATION/ TOTAL CONNECTED LOAD SHOWN AT BOTTOM OF PANEL SCHEDULES.
- 8. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE.

ELECTRICAL LEGEND

TOGGLE SWITCH — SINGLE POLE — QUIET TYPE 20 AMP, 120/277 VOLT HUBBELL NO. HBL12211 WITH NO. P1 COVERPLATE — 46" MOUNTING HEIGHT U.N.O. PROVIDE MOTION SENSOR SWITCH WHERE REQUIRED PER FL ENERGY CODE 415 SAME AS ABOVE EXCEPT MOTION SENSOR

LOW VOLTAGE POWER PACK FOR CEILING MOUNTED MOTION SENSOR

CEILING MOUNTED MOTION SENSOR - LOW VOLTAGE

LEX RECEPTACLE - 20 AMP, 120 VOLT, 3 WIRE GROUNDING, HUBBELL 5352I WITH NO. P8 COVERPLATE, 18 INCH MOUNTING HEIGHT, U.N.O.

DUPLEX RECEPTACLE WITH GROUND FAULT INTERRUPTER, 20 AMP, 120 VOLT, 3 WIRE GROUNDING. HUBBELL NO. GF5352IA WITH NO. HPS1I COVERPLATE, 46 INCH MOUNTING HEIGHT, U.N.O. EXTERIOR LOCATIONS SHALL BE MOUNTED AT 18" A.F.F.

DATA/TELEPHONE OUTLET - 4 INCH SQUARE JUNCTION BOX WITH 1-GANG EXTENSION RING, BLANK COVER PLATE - 18 INCH MOUNTING HEIGHT, U.N.O. PROVIDE 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE.

JUNCTION BOX.

MOTOR, FAN, PUMP OR AIR CONDITIONING UNIT.

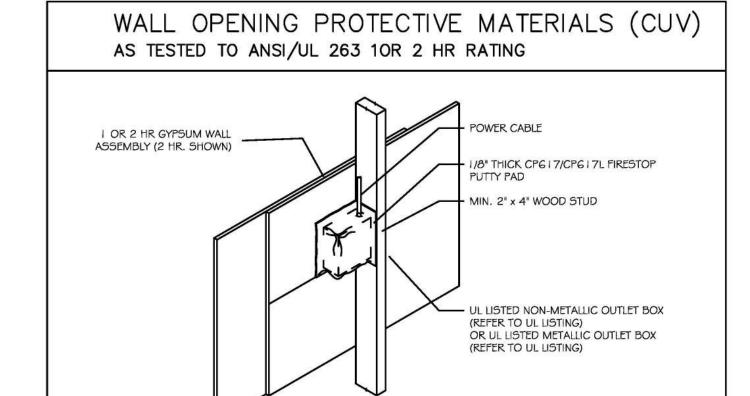
LIGHTING AND/OR POWER PANELBOARD

VIRING IN CONDUIT, RUN CONCEALED BELOW FLOOR.

WIRING IN CONDUIT, RUN CONCEALED ABOVE CEILING OR IN WALLS.

HOMERUN TO PANELBOARD — NUMBER OF ARROWS DENOTES QUANTITY OF CIRCUITS. CROSSMARKS INDICATE QUANTITY OF NO. 12 CONDUCTORS. RUNS VOID OF CROSSMARKS ARE 1/2 INCH CONDUIT, 3 NO. 12, U.N.O. DO NOT COMBINE HOMERUNS EXCEPT AS SPECIFICALLY INDICATED ON THE PLAN.

DENOTES WEATHERPROOF - MOUNT RECEPTACLES HORIZONTALLY AND PROVIDE TAYMAC 60350 COVERPLATE, FOR SWITCHES PROVIDE TAYMAC 40110 COVERPLATE. DISCONNECT SWITCH, "3 60/40 N3R" DENOTES 3 POLE, 60 AMPS, 40 AMPS FUSES N3R DENOTES DISCONNECT NEMA RATING.



NOTE: WEHRE BOXES BACK UP TO ONE ANOTHER OR ARE VERY CLOSE TOGETHER IN THIS WALL, ADD A LAYER OF 5/8" TYPE "X" FIRECODE SCREWED TO STUD BETWEEN THEM

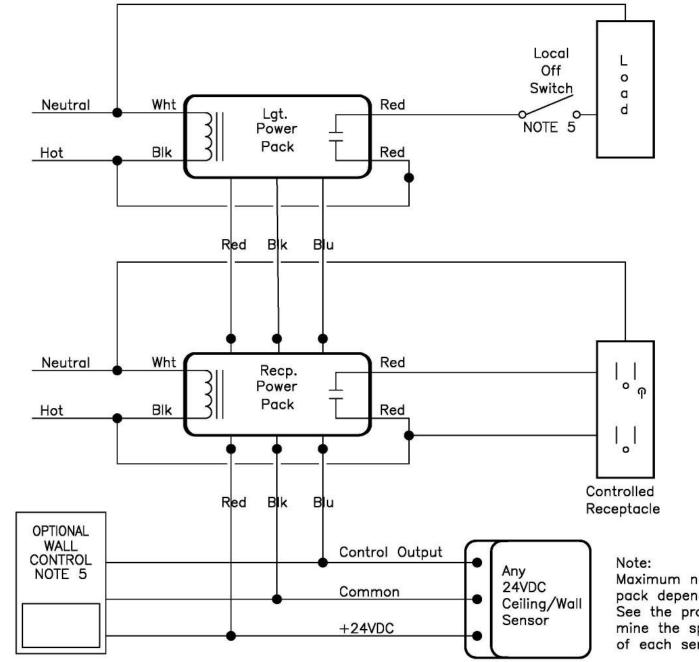
CP617 PUTTY PADS, FOR USE WITH MAX 4 BY 4 IN. FLUSH DEVICE UL LISTED METALLIC OUTLET BOXES INSTALLED WITH STEEL COVER PLATES IN 1 AND 2 HR. FIRE RATED GYPSUM WALLBOARD WALL ASSEMBLIES FRAMED WITH MIN 3-1/2 IN. DEEP WOOD OR STEEL STUDS AND CONSTRUCTED AS specified in the individual u300 or u400 series wall and partition designs in the fire RESISTANCE DIRECTORY. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE OUTLET BOX (EXCEPT FOR THE SIDE OF THE OUTLET BOX AGAINST THE STUD) AND COMPLETELY SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROTECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN OUTLET BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK.

CP617 FIRESTOP PUTTY PADS, FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY CARLON ELECTRICAL PRODUCTS, MADE FROM POLYVINYL CHLORIDE, AND BEARING A 2 HR. RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFICATION FOR FIRE RESISTANCE CATEGORY IN THE FIRE RESISTANCE DIRECTORY. PUTTY PADS AND BOXES FOR USE IN 1 AND 2 HR FIRE RATED GYPSUM WALLBOARD ASSEMBLIESM, FRAMED WITH 3-1/2 IN. DEEP WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. OUTLET BOX SECURED TO WOOD STUD BY MEANS OF TWO NAILING TABS SUPPLIED WITH THE OUTLET BOX. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SEAL AGAINST the stud within the stud cavity. Outlet boxes installed with steel or plastic cover plates. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROETECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE VALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK

CP617 FIRESTOP PUTTY PADS, FOR USE WITH MAX 2-1/4 BY 3-3/4 BY 2-1/4 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY PASS AND SEYMORE INC., AND BEARING A 2 HR. RATING UNDER THE " OUTLET BOXES AND FITTINGS CLASSIFICATION FOR FIRE RESISTANCE CATEGORY IN THE FIRE RESISTANCE DIRECTORY. PUTTY PADS AND BOXES FOR USE IN 1 AND 2 HR FIRE RATED GYPSUM WALLBOARD ASSEMBLIESM, FRAMED WITH MIN 3-1/2 IN. DEEP WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE TRE RESISTANCE DIRECTORY. OUTLET BOX SECURED TO WOOD STUD BY MEANS OF TWO NAILING TABS SUPPLIED WITH THE OUTLET BOX. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROETECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK

CP617 FIRESTOP PUTTY PADS, FOR USE WITH MAX 4 BY 3-3/4 BY 3 IN. DEEP UL LISTED NONMETALLIC OUTLET BOXES MANUFACTURED BY ALLIED MOLDED PRODUCTS, INC., MADE FROM FIBER REINFORCED THERMOPLASTIC AND BEARING A 2 HR RATING UNDER THE "OUTLET BOXES AND FITTINGS CLASSIFICATION FOR FIRE RESISTANCE" CATEGORY IN THE FIRE RESISTANCE DIRECTORY. PUTTY PADS ND BOXES FOR USE IN 1 HR FIRE RATED GYPSUM WALLBOARD ASSEMBLIESM, FRAMED WITH MIN 3-1/2 IN. DEEP WOOD STUDS AND CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U300 SERIES VALL AND PARTITION DESIGNS IN THE FIRE RESISTANCE DIRECTORY. OUTLET BOX SECURED TO WOOD STUD BY MEANS OF TWO NAILING TABS SUPPLIED WITH THE OUTLET BOX. MIN 1/8 IN. THICK MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SEAL AGAINST THE STUD WITHIN THE STUD CAVITY. OUTLET BOXES INSTALLED WITH STEEL OR PLASTIC COVER PLATES. WHEN MOLDABLE PUTTY PAD OUTLET BOX PROETECTIVE MATERIAL IS USED ON BOXES ON BOTH SIDES OF WALL AS DIRECTED, THE HORIZONTAL SEPARATION BETWEEN BOXES ON OPPOSITE SIDES OF THE WALL MAY BE LESS THAN 24 IN. PROVIDED THAT THE BOXES ARE NOT INSTALLED BACK TO BACK

DESCRIPTION OF OPERATION:
120V 1 Phase w/ control for 2 Exhaust Fans, 1 Supply Fan, Exhaust on in Fire, Lights out in Fire, Fan(s) On/Off
Thermostatically Controlled. Roon temperature sensor shipped loose for field installation. JOB NAME Larry Cole 4037308 BREAKER PANEL TO PRIMARY CONTROL PANEL Responsibility: Electrician
BREAKER SIZE SHOWN IS THE MAXIMUM ALLOWED SPEED SIGNAL ECM-02 HOT TO SHUNT COIL SHUNT COIL REAKER PANEL PRIMARY CONTROL PANEL SIGNAL FOR ONLO PANEL TO BREAKER 1P EXTERNAL ST TERMINAL IS ENERGIZED 120 V 15 A CONTROL POWER. DO NOT VIRE SHUNT TRIP IN FIRE CONDITION. CONTROL PANEL OCZO-SPARE FIRE OARZO 120 LES / HEUTINAL C-1 St hood light breaker shared V/ Control Poiver, svitch #1 SYSTEM DRY CUNTACT BREAKER 1PH PROVIDED CONDUIT DROP TO STARTER 115 V MCA: 10.1 A MCCP: 15 A SUP-3 -CONTROL PANEL TO ACCESSORY ITEMS SIGNAL SWITCH THROUGH BMS WILL ACTIVATE ZUNEI FANS AND LIGHTS EXTERNAL SWITCH Responsibility: Electrician BREAKER PANEL TO FANS MICROSVITCH CONTROL PANEL TU OCIO
FIRE SYSTEM OARIO VIRE CI TU COMMON (1),
MICROSVITCH VIRE ARI TU NORMALLY CLOSED (2) BREAKER 1F POVER T C1 TO AR1 SHOULD HAVE CONTINUITY WHEN ARMED. MCA: 11.1A MCCP: 20A EXH-1 MS-2 4ND SE | POWER TA | Ground | ECM FANS BREAKER 1P 115∨ MCA: 11.1A EXH-5 ALL SVITCHES FACTURY VIRED SWITCHES CONTROL PANEL TO FANS Responsibility: Electrician HOOD LIGHTS OGNIO VIRE TO J-BOX ON TOP OF HOOD CONTROL PANEL TIAC
TO TIBO WIRE TO CONTROL BOARD, INSTALL
TEMP SENSOR SENSOR IN ROOM AVAY FROM HEAT
SOURCES, DO NOT INSTALL SENSOR
ON THE CEILING GRID, SEE MANUAL. PWM ECM-01 CONTROL PANEL TO ECM-01 TO TERM FACTURY VIRED TEMPERATURE UCT SENSOR SENSOR, HOUNTED IN EXHAUST DUCT TO DUCT SENSOR



Maximum number of sensors per power pack depends on the model of sensor. See the product data sheet to determine the specific current consumption of each sensor.

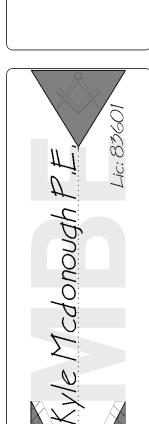
NOT TO SCALE

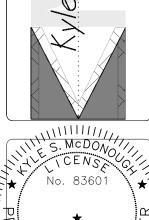
LGT/RECEPTACLE CONTROL DETAIL

- PROVIDE VACANCY SENSOR IN LOCATIONS INDICATED. INSTALL IN ALL OFFICE LOCATIONS PER ASHRAE 90.1
- 2. CONTRACTOR TO ADJUST SENSITIVITY LEVEL BASED ON ROOM SIZE AND FURNITURE LAYOUT, SET TIME OUT ON SENSOR TO 12 MIN. (ALL SENSORS MUST BE FIELD ADJUSTED, DONT INSTALL WITH FACTORY SETTING) PROVIDE SENSOR MASKING KIT AS REQUIRED
- 3. PROVIDE 20A., 24 VOLT RELAY IN AREAS INDICATED TO AUTOMATICALLY DISCONNECT 120 VOLT RECEPTACLE POWER WHEN NO OCCUPANCY IS DETECTED. RELAY SHALL BE MANUFACTURED BY SAME MANUFACTURER AS THE POWER PACK TO INSURE COMPATIBLE VOLTAGE AND POWER RATING REQUIRED TO CONTROL RECEPTACLE AS INDICATED
- 4. PROVIDE DUPLEX RECEPTACLES IN AREAS INDICATED WITH HALF-SWITCHED OUTLETS. OUTLETS SHALL EACH HAVE A PERMANENT LABEL INDICATING TOP HALF OF RECEPTACLES ARE CONTROLLED.
- 4. OPTIONAL LOW VOLTAGE WALL SENSOR CAN BE USED IF CEILING SENSOR IS NOT REQUIRED FOR ROOM COVERAGE. DELETE LOCAL SWITCH BETWEEN LGT RELAY PACK AND LGT. LOAD.

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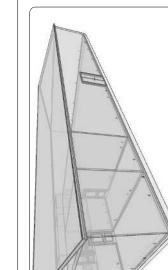
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STATE OF

CORIDA



SPECIFICATIONS;
NEMA 3R CABINET PAINTED TO MATCH
THE BUILDING WITH HINGED LOCKABLE
DOOR. 3/4" FULL COVERAGE BACKBOARD
WEATHERPROOF. GROUND: #6 INSULATED
COPPER WIRE TO NEAREST APPROVED
POWER GROUND.
CONDUITS FROM PUBLIC R.O.W. TO CABINET.

PULLSTRINGS IN ALL CONDUITS IDENTIFY EACH TENANT CONDUIT IN CABINET.

CABINET SIZE USUALLY 3'W x 4'H x 10"D CONDUIT (2) 4" TO R.O.W. COORDINATE SIZES AND ROUTING WITH TELEPHONE COMPANY REPRESENTATIVE.

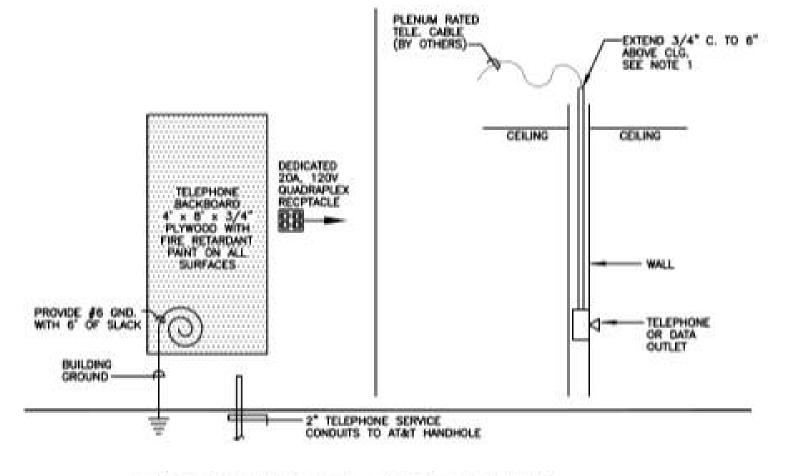
(2) 4" ENTRANCE CONDUITS AS SHOWN ON SITE PLAN.
CONDUITS SHOULD PENETRATE
BOX IN BOTTOM LEFT.

2" CONDUITS (1) EACH TO "SECONDARY TELEPHONE BOARDS

TELEPHONE CABINET DETAIL - ELECTRICAL

0 0 **~**

Lighting Plan Scale - 1/4" = 1'



TELEPHONE/DATA OUTLET DETAIL

- PROMDE NYLON BUSHING AT END OF CONDUIT TO PREVENT DAMAGE TO TELEPHONE CABLE.
- REFERENCE ELECTRICAL SITE PLAN ON SHEET E-1 FOR CONDUIT LOCATION/ROUTING AND CONTACT INFORMATION.

NEUTRAL LOAD 277V G. GRN./YEL 120V G. GRN. LOAD RED HOT BLACK LEVITON ODS-06

GROUNDING DETAIL

- BOLTED TYPE CONNECTION DEVICE OR EXOTHERMIC WELD

- DIRECT CONTACT WITH EARTH

NONMETALLIC PROTECTIVE

GROUNDING ELECTRODE CONDUCTOR

FOUNDATION OR FOOTING

2/0 OR LARGER COPPER
CONDUCTOR OR STEEL REINFORCING
BAR OR ROD NOT LESS THAN
5/8" DIAMETER

A BONDING POINT MUST BE MADE AVAILABLE FOR OTHER EQUIPMENT WHICH REQUIRES GROUNDING ACCORDING TO N.E.C. SECTION 250-70(b)

SHOULD THIS PIECE OF REBAR OR COPPER ROD BE LEFT OUT OF THE SLAB OR FOOTER, A SUITABLE SUBSTITUTE GROUND CONSISTING OF A CONDUCTOR SIZED PER N.E.C. 250-94, (BARE COPPER) ENCIRCLING THE ENTIRE BUILDING WILL BE INSTALLED 30" BELOW FINISHED GRADE AND AT NO ADDITIONAL COST TO THE FACILITY OWNER.

OCCUPANCY DETECTOR WIRING DIAGRAM

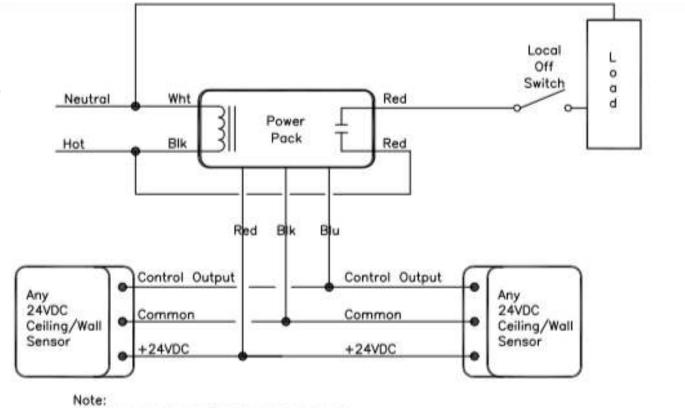
LIGHTING CONTROL DETAIL

1. THIS DIAGRAM AND ALL PART NUMBERS ARE BASED ON "LEVITON" PRODUCTS.

NOTES:

NOT TO SCALE

- 2. PROVIDE SENSORS IN ALL ROOMS AS REQUIRED BY FBC 13-415.1
 - THIS DIAGRAM AND ALL PART NUMBERS ARE BASED ON "WATTSTOPPER" PRODUCTS.



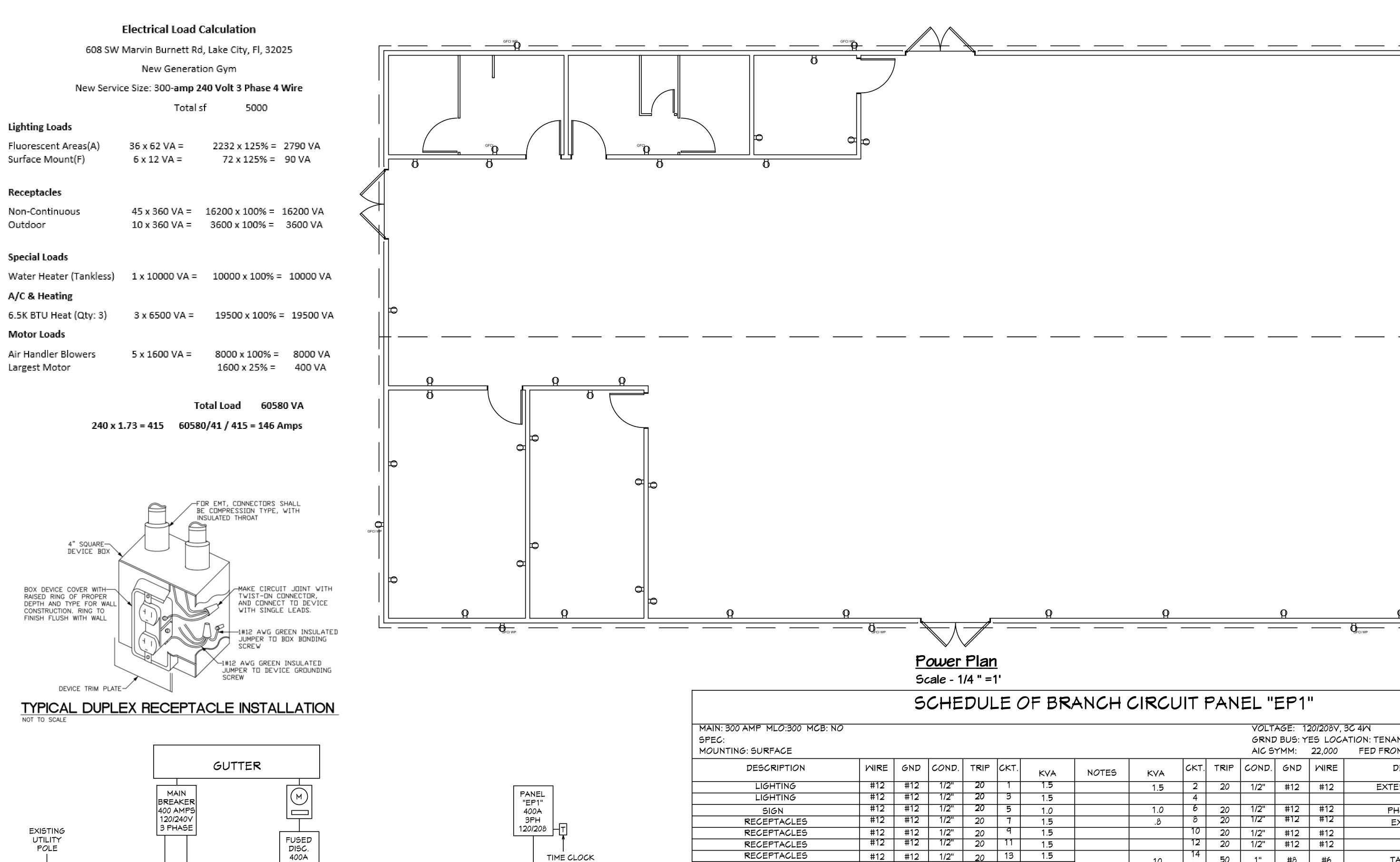
Maximum number of sensors per power pack depends on the model of sensor. See the product data sheet to determine the specific current consumption of each sensor.

Multiple Occupancy Sensors Using One Power Pack

CEILING LIGHTING CONTROL DETAIL

2. PROVIDE SENSORS IN ALL ROOMS AS REQUIRED BY FBC 13-415.1

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POWER RISER DIAGRAM

(2) 3"C. EACH WITH (3) 500MCM (AL)

2/0 CU TO MIN. 20' OF 5/8" CONC. ENCASED BUILDING REBAR

SCALE - NO SCALE

3PH.

120/240

: 300 AMP MLO:300 MCB: NO													20/208Y, 3	
5 :														TION: TENANT
NTING: SURFACE							_				AIC 5	YMM:	22,000	FED FROM: METER CENTER
DESCRIPTION	MIRE	GND	COND.	TRIP	CKT.	KVA	NOTES	KVA	CKT.	TRIP	COND.	GND	MIRE	DESCRIPTION
LIGHTING	#12	#12	1/2"	20	1	1.5		1.5	2	20	1/2"	#12	#12	EXTERIOR LIGHTING
LIGHTING	#12	#12	1/2"	20	3	1.5			4					
SIGN	#12	#12	1/2"	20	5	1.0		1.0	6	20	1/2"	#12	#12	PHONE BOARD
RECEPTACLES	#12	#12	1/2"	20	7	1.5		.8	8	20	1/2"	#12	#12	EXIT LIGHTING
RECEPTACLES	#12	#12	1/2"	20	9	1.5			10	20	1/2"	#12	#12	
RECEPTACLES	#12	#12	1/2"	20	11	1.5			12	20	1/2"	#12	#12	
RECEPTACLES	#12	#12	1/2"	20	13	1.5		10	14	50	1"	#8	#6	TANKLESS W/H
RECEPTACLES	#12	#12	1/2"	20	15	1.5			16		'	10		17.111.2237.411
R/R LIGHTING	#12	#12	1/2"	20	17	1.5			18					
MSMZ1	#8	#8	3/4"	30	19 21	7			20					
MSMZ2	#8	#8	3/4"	30	23 25	7			24 26					
PCKG1	#6	#6	1"	60	27 29	15			28 30					
PCKG2	#6	#6	1"	60	31 33	15			32 34					
PCKG3	#6	#6	1"	60	35 37	15			36 38					
EXTERIOR RECEPTACLES	#12	#12	1/2"	20	39	1.5			40					

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(2) 2-1/2" C. EACH WITH (3) 250 MCM. #1GRD (AL) TIME CLOCK

PROGRAMMABLE

0

eu Generation of a New Commercial Building

Kyle Mcdonough P

TUBE: PVC SCHEDULE 40 DWV, ASTM D 1785, FOAM CORE NOT ACCEPTED FITTINGS: PVC PLASTIC FITTINGS, SCHEDULE 40, ASTM D 2466, FOAM CORE NOT ACCEPTED JOINTS: SOLVENT CEMENTS FOR PVC PIPE AND FITTINGS, ASTM D 2564. FOAM CORE NOT PROVIDE FIRE WRAP FOR PVC PIPE IN PLENUM CEILING AREAS, 3M FIRE BARRIER PLENUM

WRAP 5A OR EQUAL

STORM WATER/EMERGENCY STORM WATER PIPING:

TUBE: CAST IRON STORM PIPE SHALL BE BELL AND SPIGOT BELOW GRADE AND NO-HUB ABOVE GRADE. THE MATERIAL FOR ALL PIPE AND FITTINGS SHALL BE CAST IRON SOIL PIPE AND FITTINGS AND SHALL CONFORM TO THE REQUIREMENTS OF CISPI STANDARD 301, ASTM A-888, OR ASTM A-74.

JOINTS: FOR HUBLESS PIPE AND FITTINGS SHALL CONFORM TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. COUPLINGS FOR HUBLESS JOINTS SHALL CONFORM TO CISPI 310. JOINTS FOR HUB AND SPIGOT PIPE SHALL BE INSTALLED WITH COMPRESSION GASKETS CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD C-564.

DOMESTIC WATER PIPING:

TUBE: CPVC, CTS PIPE, PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM

FITTINGS: CPVC PLASTIC FITTINGS, ASTM F438. JOINTS: SOLVENT CEMENTS FOR CPVC PIPE AND FITTINGS, ASTM F493

AND PROVIDE 6" SADDLES UNDER ALL INSULATED PIPING.

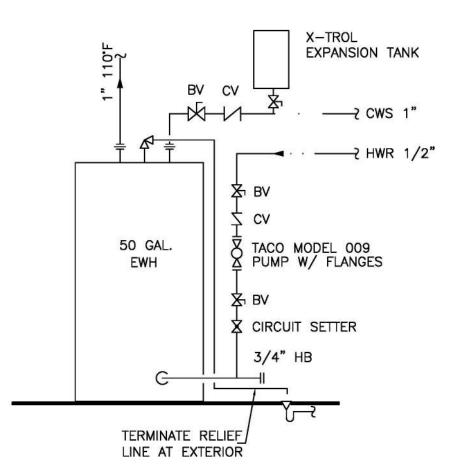
ALL VALVES FOR DOMESTIC HOT AND COLD WATER DRISTRIBUTION SYSTEM SHALL BE CONFORM TO REQUIREMENTS OF ASTM D 2846. OPERATING PRESSURE SHALL NOT EXCEED 80% OF THE VALVE PRESSURE CLASS.

PROVIDE 1" ELASTOMERIC INSULATION FOR ABOVE-GRADE DOMESTIC HOT WATER PIPING AND COLD WATER PIPING IF LOCATED IN VENTED ATTIC SPACE. PROVIDE 2" FIBERGLASS BLANKET WITH ASJ SEALED AND TAPED FOR STORM WATER PIPING.

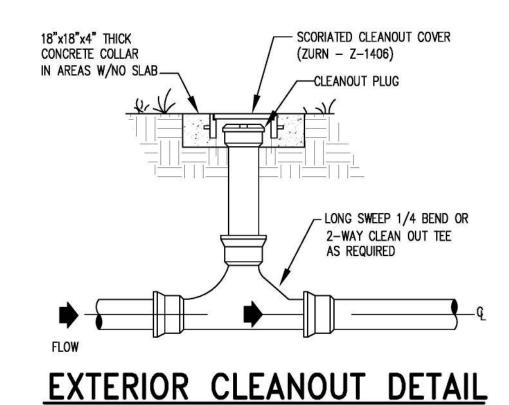
PROVIDE PIPING HANGERS AND SUPPORTS SIZED AND SPACED PER CURRENT FBC 2007

NOT ACCEPTABLE.

SHOCK ARRESTORS PROVIDE SHOCK ARRESTORS PER CODE SIZED TO PDI STANDARDS. AIR CHAMBERS ARE

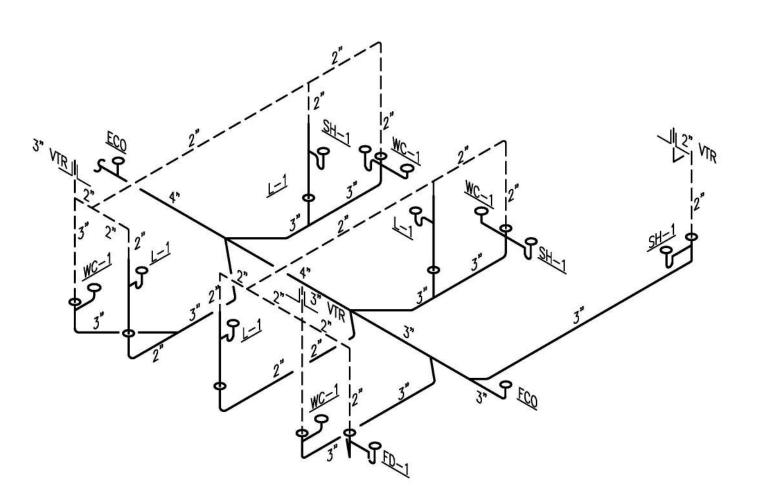


WATER HEATER (WH-1) DETAIL NOT TO SCALE



	PLUMBING FIXTURE SC	HEDULE			
FIXTURE	DESCRIPTION	MANUFACTURER	WASTE	CW	HW
WC-1	WATER CLOSET, ADA 17-1/8" HEIGHT, ELONGATED TOILET. VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, FLUSH TANK TYPE, LOW CONSUMPTION 1.6 GPF. SEAT INSTALLED MIN. 18" FROM FINISH FLOOR TO TOP	KOHLER K-3979	4 "	1/2"	_
	OF SEAT SEAT: EXTRA HEAVY DUTY PLASTIC, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST.	BEMIS CHURCH OLSONITE	2.0	1,72	
	STOP: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER WATER CLOSET RISER.	McGUIRE MANUFACTURING			
	ACCESSORIES: HEAVY DUTY WAX BOWL RING. WAX GASKET FOR SETTING ANY FLOOR TYPE WATER CLOSET BOWL.	OATEY 31190			
١	AVATORY, ADA WALL HUNG LAVATORY, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS.	KOHLER K-2032	1-1/4"	1/2"	1/2
	FAUCET: ADA COMPLIANT, SINGLE LEVER, CHROME	CHICAGO 420-T41AB			
	TEMPERED WATER: PROVIDE WATER TEMPERATURE LIMITING DEVICE (THERMOSTATIC MIXING VALVE) THAT CONFORMS TO ASSE 1070 PER FPC 416.5	WATTS MMV			
	STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN WITH OFFSET TAILPIECE AND CHROME PLATED P—TRAP	McGUIRE MANUFACTURING TRUEBRO			
	MOUNT AT HANDICAPPED HEIGHT, PROVIDE BLOCKING IN WALL FOR MOUNTING OF LAVATORY SUPPLY LAV-GUARD INSULATION KIT.	MODEL#102G TRUEBRO #102G			
EWC-1	ELECTRIC WATER COOLER, ADA DOUBLE UNIT, ADA, STAINLESS STEEL, REFRIGERATED	ELKAY ELKAY EZSTL8LC	1-1/4"	1/2"	_
SH-1	ADA COMPLIANT SHOWER UNIT: 36 IN. X 36 IN. X 80.4 IN DRAIN: 2" CAST BRASS, CHROME PLATED STRAINER SHOWER SYSTEM: SYMMONS BP-300-B30-VX	AQUATIC 727149391348 SIMMONS BP-300-B30-VX	2"	1/2"	1/2
100000000	EXTERIOR CLEANOUT EXTERIOR, ADJUSTABLE CLEANOUT, DUCO COATED, CI BODY, ABS TAPERED PLUG WITH GASKET, HEAVY DUTY TOP.	ZURN ZB-1400-HD	MATCH PIPE	520a 1730	-
FCO	FLOOR CLEAN OUT NTERIOR, FLOOR TYPE. ABS TAPERED PLUG, WITH GASKET SEAL AND ADJUSTABLE SECURED, NICKEL BRONZE TOP. "C.O." CAST IN COVER. SPANNER WRENCH REMOVABLE.	JR SMITH 4033-NB	MATCH PIPE SIZE	-	=
TP	TRAP PRIMER WATER SAVER TYPE, CP BRONZE, 1/2" PIPING AND ESCUTCHEON PLATES. ROUTE PRIMER PIPING IN WALL TO FLOOR DRAIN.	J.R. SMITH 2698	-	1/2"	_
WARKS.	HOSE BIBB FROST-PROOF, ANTI-SIPHON WALL HYDRANT	ZURN Z1321	-	3/4"	-
	FLOOR DRAIN DUCO CAST IRON BODY AND FLASHING COLLAR WITH SLOTTED SEDIMENT BUCKET, 12" SQUARE NICKEL BRONZE TOP. PROVIDE 1/2" TRAP PRIMER CONNECTION.	JAY R. SMITH 2240	3"	1/2"	_

		WA	TER H	EATER	SCHE	DULE			
TAG	SERVICE	MAN/MODEL	TYPE	GALLONS	RECOVERY	POWER	ELEMENTS/WATTS	TANK SIZE	TANK PRESS.
WH-1	SINK/SHOWER	RHEEM PROE50 T2 RH95	ELEC	50	21 GPH Ø 90°F RISE	208 VOLTS 1 PHASE	2/4500W	48" HT. 23" DIA.	150 PSI
NOTES: 1. ROUTE	RELIEF VALVE DISCHARO	GE TO WATER HEATER I	PAN AND PAN DRA	AIN TO MOP S	SINK.				



RISER DIAGRAM - SANITARY WASTE AND VENT

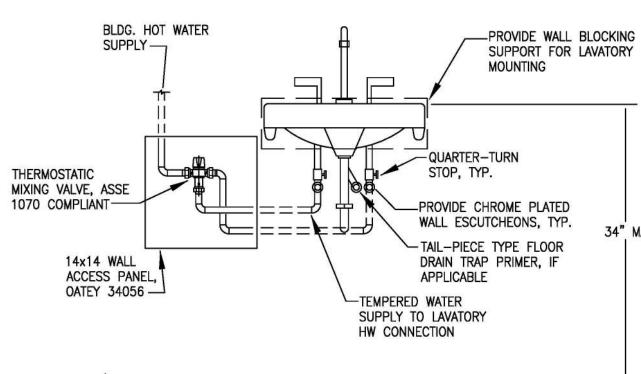
PLUMBING GENERAL NOTES

- 1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE - PLUMBING, NFPA 70, NFPA 101, AND THE AMERICAN DIABILITIES ACT (ADA).
- 2. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND
- ROUTE PIPING TO AVOID INTERFERENCES. 3. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
- PROVIDE SIX SETS (GC DETERMINE EXACT QUANTITY) OF SHOP DRAWINGS OF PLUMBING FIXTURES, PIPING MATERIALS/FITTINGS. INSULATION, VALVES, AND EQUIPMENT FOR REVIEW BY ENGINEER OF
- 4 RECORD. SHOP DRAWINGS SHALL BE ASSEMBLED BY THE CONTRACTOR IN A BOUND BOOKLET AND BE COMPLETE INCLUDING ALL ITEMS REQUIRED IN THE PLUMBING CONTRACT. IN-COMPLETE BOOKLETS PUT TOGETHER BY A FIXTURE MANUFACTURER WILL BE REJECTED AND RETURNED.

SHOCK ARRESTER SCHEDULE

0110011	/ \I\\					
PDI UNITS	SA-A	SA-B	SA-C	SA-D	SA-E	SA-F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330

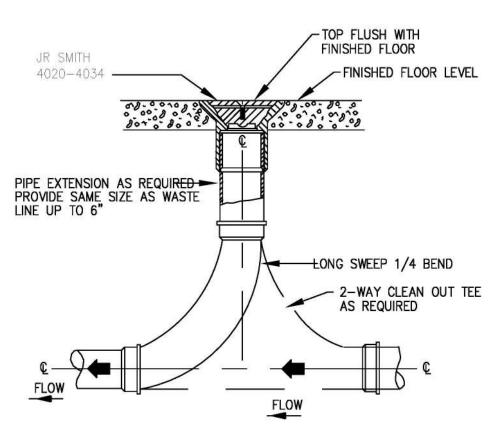
PROVIDE SHOCK ARRSTERS AS INDICATED ON PLAN AND SIZED IN ACCORDANCE WITH THIS SCHEDULE BASED ON STANDARD PDI-WH 201.



- 1. TMV VALVE AND ALL ASSOCIATED PIPING SHALL BE RECESSED WITHIN THE WALL CAVITY, COORDINATE WITH THE G.C. FOR EXTRA WALL FURRING AS REQUIRED FOR ADEQUATE SPACE. PROVIDE BLOCKING TO MOUNT TMV AS REQUIRED.
- 2. THE ONLY EXPOSED PIPING SHALL BE THE COLD, TEMPERED, TRAP PRIMER (IF APPLICABLE), AND DRAIN FOR THE LAVATORY, ALL PIPING HELD AS HIGH AS
- COUNTERTOP STYLE LAVATORY SIMILAR, PROVIDE TMV RECESSED IN WALL.
 PROVIDE LAV-GUARD INSULATION KIT FOR ALL EXPOSED PIPING.

HANDSINK DETAIL

SCALE: NO SCALE



INTERIOR CLEANOUT DETAIL

PLUMBING LEGEND

ABBREVIATIONS

CLEANOUT ON GRADE

POINT OF CONNECTION -

NEW WORK TO EXISTING

WALL CLEANOUT

FLOOR CLEANOUT

HD

FC0

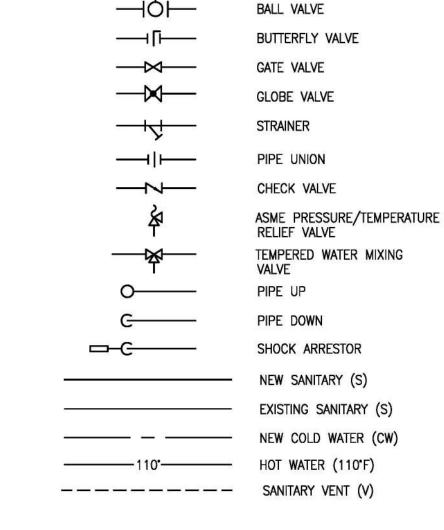
ATIONS & SYMBOLS:	PLUMBING FIXTURES:	
WALL CLEAN OUT	FD	FLOOR DRAIN
FLOOR CLEAN OUT	WH	WALL HYDRANT
ABOVE CEILING	1020000	101.0 400 - 200-200 - 201.0 201.0 201.0
ACCESS PANEL	HB	HOSE BIBB
BELOW GROUND	L	LAVATORY
BELOW FLOOR	MS	MOP SINK
BACK FLOW PREVENTER	S	SINK
EXISTING	SA-A	SHOCK ARRESTOR -
HUB DRAIN	<i>3</i> /(//	P.P.I SIZE
VENT THROUGH ROOF	SS	SERVICE SINK
TRAP PRIMER	33	SERVICE SINK
WATER HEATER	TMV	THERMOSTATIC MIXING VALV
FILTERED WATER	UR	URINAL

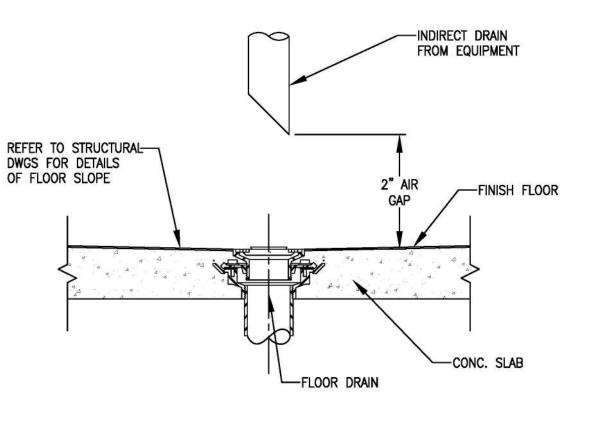
PIPING & VALVES:

WATER CLOSET

WASHER BOX

THERMOSTATIC MIXING VALVE





INDIRECT WASTE DETAIL

nstruction of a New Commercial Building

ew Generation

Gymnasium

2 0

<u>a</u> lumbing



