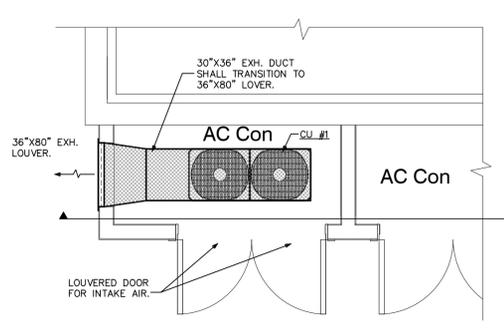
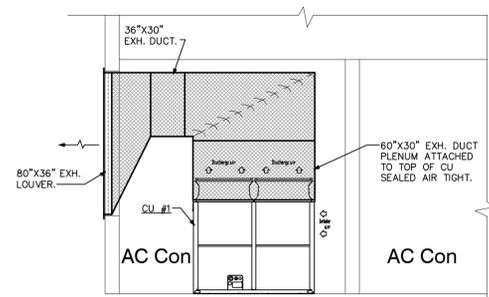


**2 AHU FLOOR MOUNTING DETAIL**  
NO SCALE

**4 COND. UNIT ROOM PART. PLAN**  
SCALE: 1/4"=1'-0"



**5 COND. UNIT ROOM SECTION**  
SCALE: 1/4"=1'-0"

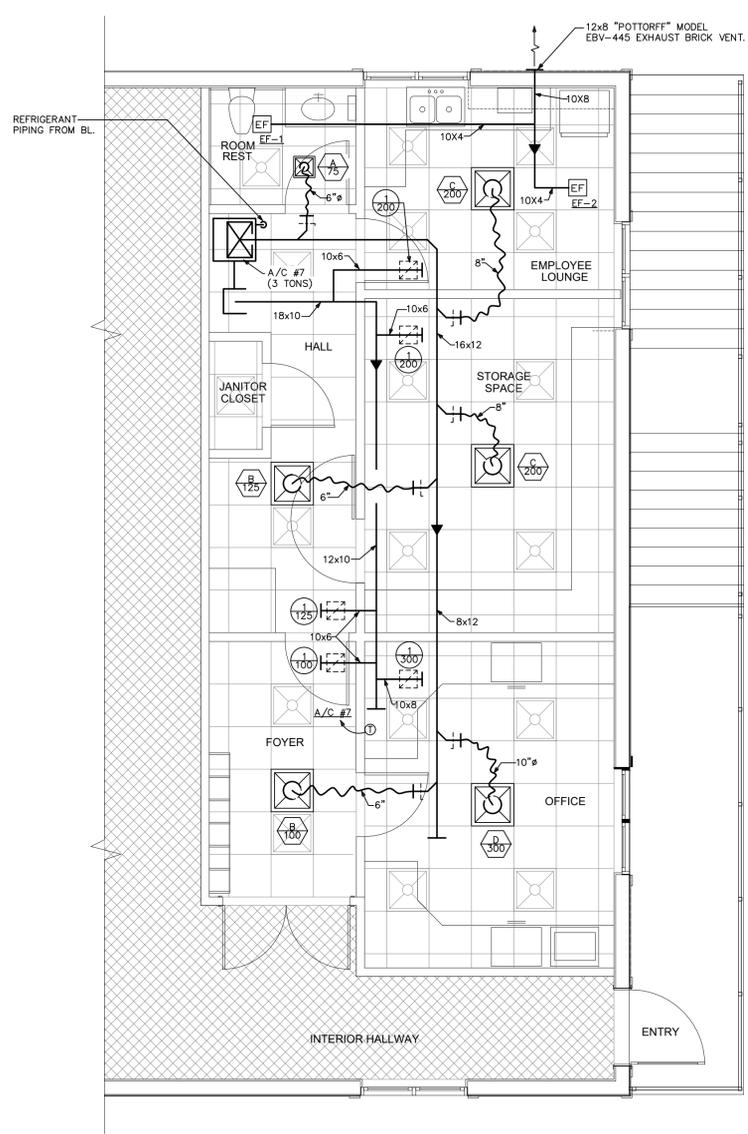


SUPPLY DIFFUSER SCHEDULE				
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPPOSED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.		
DESIGNATES CFM QUANTITY FOR DIFFUSER				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE
B	TITUS TDC-AA	6"ø	0 - 125	24X24 LOUVERED FACE
C	TITUS TDC-AA	8"ø	130 - 200	24X24 LOUVERED FACE
D	TITUS TDC-AA	10"ø	205 - 325	24X24 LOUVERED FACE

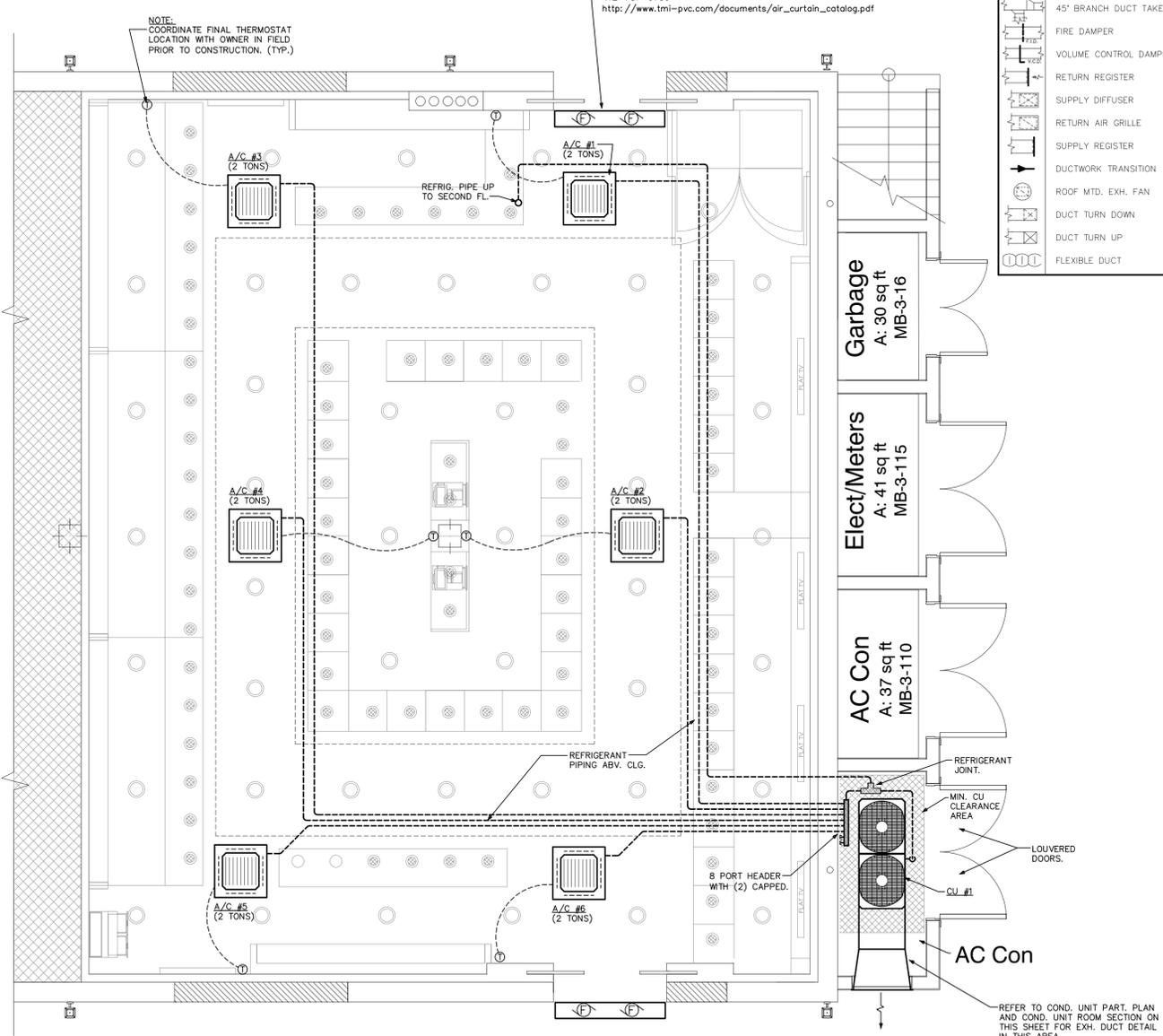
RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	10X10	0 - 400	LOUVER FACE

H.V.A.C. ABBREVIATION LEGEND			
A/C	AIR CONDITIONER	REV.	REVISION
DN	DOWN	N.T.S.	NOT TO SCALE
EXH.	EXHAUST	MFG.	MANUFACTURER
EXT.	EXTERIOR	R/A	RETURN AIR
E.F.	EXHAUST FAN	GR.	GRILLE
A.F.F.	ABOVE FINISH FLOOR	C.D.	CEILING DIFFUSER
F.F.	FINISH FLOOR	REG.	REGISTER
TYP.	TYPICAL	C.U.	CONDENSING UNIT
A.H.U.	AIR HANDLING UNIT	D.G.	DOOR GRILLE
F.I.D.	FIRE DAMPER	DISP.	DISPOSABLE
V.C.D.	VOLUME CONTROL DAMPER	F/A	FRESH AIR
S.P.	SAFE PAN	CD.	CONDENSATE DRAIN

HVAC SYMBOLS LEGEND	
	THERMOSTAT, MTD +47" AFF
	EXHAUST FAN
	SECTION "A"-"A"
	REMOTE BULB SENSOR
	DUCT SMOKE DETECTOR
	TRANSITION
	TURNING VANE
	45° BRANCH DUCT TAKE-OFF
	FIRE DAMPER
	VOLUME CONTROL DAMPER
	RETURN REGISTER
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	SUPPLY REGISTER
	DUCTWORK TRANSITION
	ROOF MTD. EXH. FAN
	DUCT TURN DOWN
	DUCT TURN UP
	FLEXIBLE DUCT



**2 SECOND FLOOR PLAN - MECHANICAL**  
SCALE: 1/4"=1'-0"



**1 FIRST FLOOR PLAN - MECHANICAL**  
SCALE: 1/4"=1'-0"

**MITSUBISHI CITY MULTI VRF INDOOR UNIT SCHEDULE**

System Tag	Room Name	Tag Reference	Model	Type	Nominal Cooling Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F)	Heating Design Entering Temp DB/WB (°F)	Refrigerant Pipe Dim			Peak Fan Airflow (cfm)	Max Fan ESP Setting 208V/230V (IN WG)	Voltage / Phase	Power Cooling 208V/230V (kW)	Electrical MCA/MFS	Notes / Options	
								Liquid/Suction (inch)	Heating Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)							
System 1	Open Retail Area	A/C #1	PLFY-P24NBMU-ER2	Ceiling cassette (4-way airflow) type	24,000.00	80.0/67.0	70	20,028.80	15,129.50	21,524.00	3/8 / 5/8	706	208/230V/1-phase	0.06	0.64/0.64/15	1, 2, 3, 4, 5, 6	
System 1	Open Retail Area	A/C #2	PLFY-P24NBMU-ER2	Ceiling cassette (4-way airflow) type	24,000.00	80.0/67.0	70	20,202.60	15,198.20	21,602.30	3/8 / 5/8	706	208/230V/1-phase	0.06	0.64/0.64/15	1, 2, 3, 4, 5, 6	
System 1	Open Retail Area	A/C #3	PLFY-P24NBMU-ER2	Ceiling cassette (4-way airflow) type	24,000.00	80.0/67.0	70	19,856.90	15,061.50	21,447.30	3/8 / 5/8	706	208/230V/1-phase	0.06	0.64/0.64/15	1, 2, 3, 4, 5, 6	
System 1	Open Retail Area	A/C #4	PLFY-P24NBMU-ER2	Ceiling cassette (4-way airflow) type	24,000.00	80.0/67.0	70	20,009.60	15,121.90	21,515.40	3/8 / 5/8	706	208/230V/1-phase	0.06	0.64/0.64/15	1, 2, 3, 4, 5, 6	
System 1	Open Retail Area	A/C #5	PLFY-P24NBMU-ER2	Ceiling cassette (4-way airflow) type	24,000.00	80.0/67.0	70	20,144.50	15,175.20	21,576.00	3/8 / 5/8	706	208/230V/1-phase	0.06	0.64/0.64/15	1, 2, 3, 4, 5, 6	
System 1	Open Retail Area	A/C #6	PLFY-P24NBMU-ER2	Ceiling cassette (4-way airflow) type	24,000.00	80.0/67.0	70	20,319.40	15,244.60	21,646.60	3/8 / 5/8	706	208/230V/1-phase	0.06	0.64/0.64/15	1, 2, 3, 4, 5, 6	
System 1	Second Floor Office	A/C #7	PVFY-P36NAMU-E	Vertical type	36,000.00	80.0/67.0	70	29,743.70	23,526.60	31,755.50	3/8 / 5/8	1095	0.3/0.5/0.8	208/230V/1-phase	0.34	3.75/3.38/15	1, 2, 3, 4, 5, 6

**Notes & Options:**

- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
- See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
- Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system. Partial corrected capacity assumes sufficient diversity exists such that the connected capacity de-rate does not apply. It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
- It is recommended to always base heating corrected capacity on full demand.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.  
 1.25mm<sup>2</sup>(16 AWG) : 1.25mm<sup>2</sup>(16 AWG) or more. 0.75mm<sup>2</sup>(20 AWG) : between 0.5mm<sup>2</sup>(24 AWG) and 0.75mm<sup>2</sup>(20 AWG).

CONTRACTOR SHALL ADJUST A/C UNIT DIPSWITCHES IN FIELD TO BE COOLING ONLY. TYPICAL FOR ALL INDOOR UNITS.  
 CONTRACTOR SHALL SET SW3 #1 DIPSWITCH - TURN TO ON POSITION TO ENABLE COOLING ONLY. COORDINATE WITH MANUFACTURER.  
 SUPPORT WEBSITE  
<http://usa.mylinkdrive.com/pages/show/2.html>

**MITSUBISHI CITY MULTI VRF OUTDOOR UNIT SCHEDULE**

System Tag	Tag Reference	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Cooling Efficiency IEER/EER	Corrected Cooling Total Capacity (BTU/h)	Voltage / Phase	Electrical-Per Module			Notes / Options
								MCA 208	RFS 208	MOCP	
System 1	CU #1	PUHY-P144TKMU-A-BS	P144	144,000.00	20.2 / 11.8	150,305.50	208V / 3-phase 3-wire	53	60	88	1, 2, 3, 4, 5

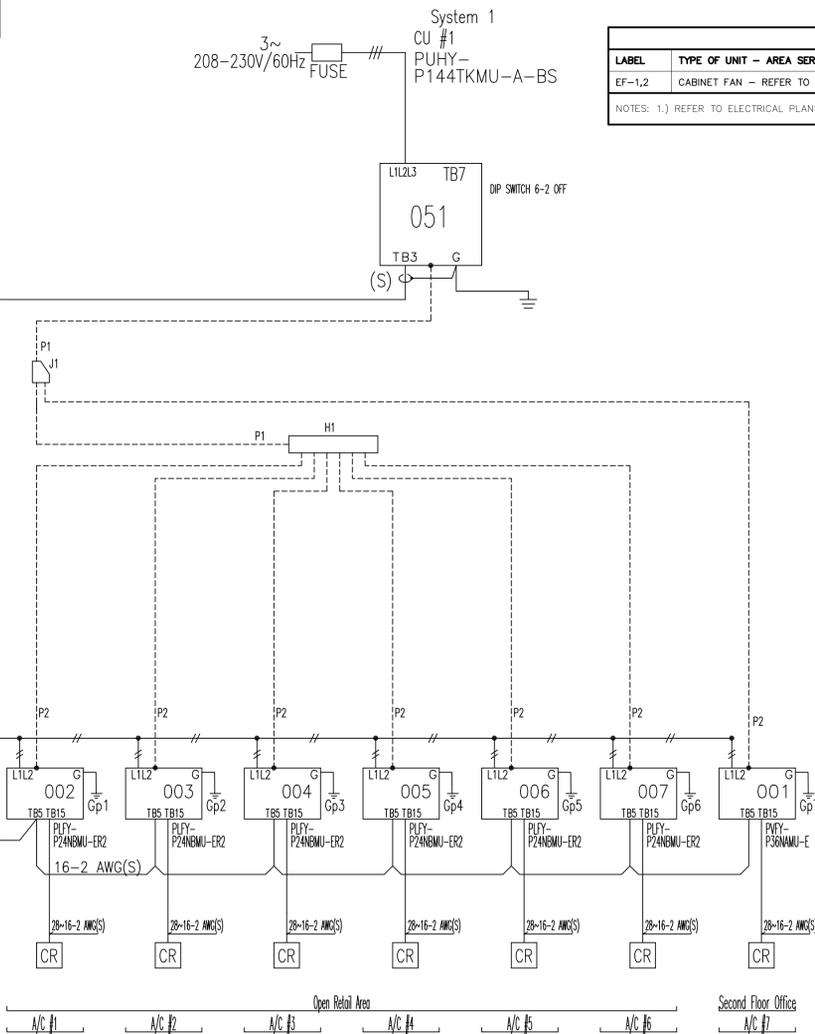
**Notes & Options:**

- Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
- Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
- Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
- For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module twinning.
- Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.

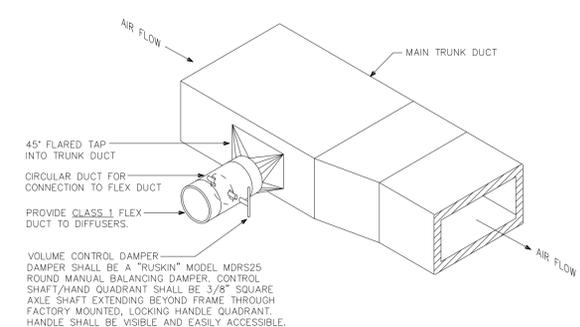
Little Switzerland – Pier park, Tortola

CITY MULTI SYSTEM SCHEMATIC DWG.

DIAGRAM DISPLAY	SYMBOL	LEGEND DESCRIPTION
---	---	POWER WIRE
---	---	CONTROL WIRE
---	---	REF. PIPE



**3 AHU FLOOR MOUNTING DETAIL**  
NO SCALE

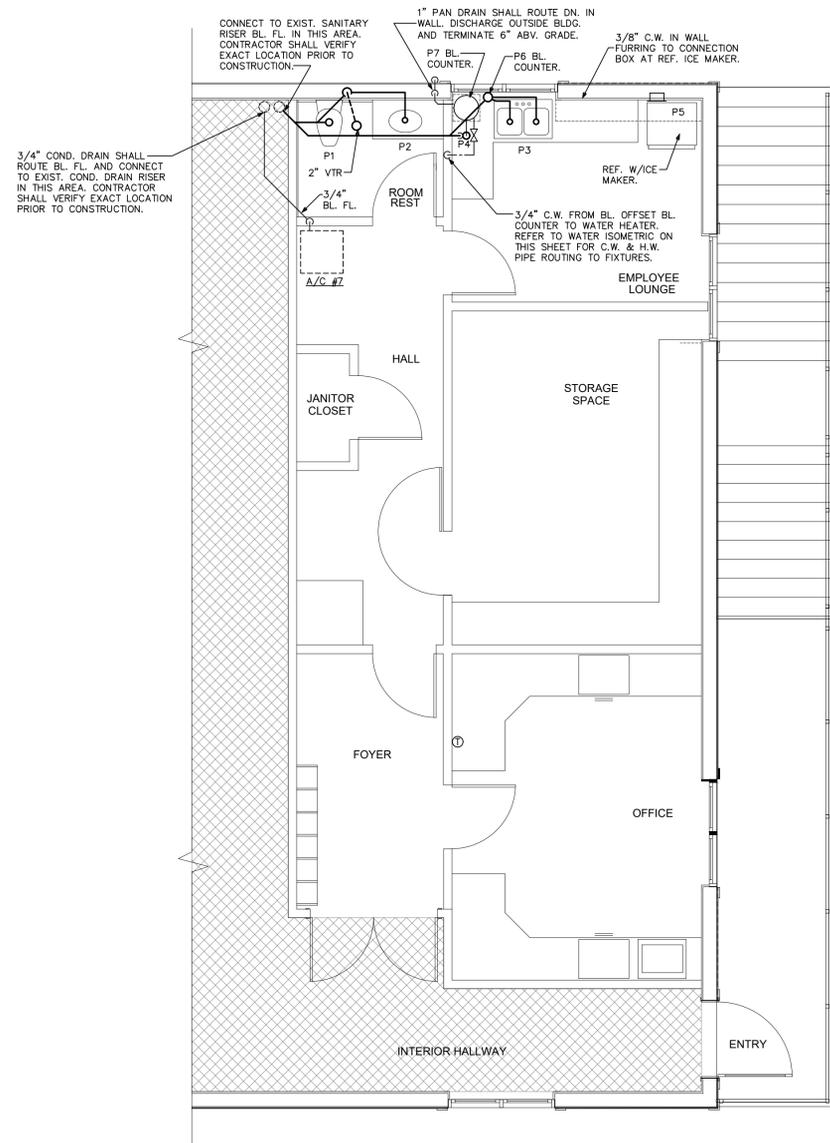


**GENERAL MECHANICAL NOTES**

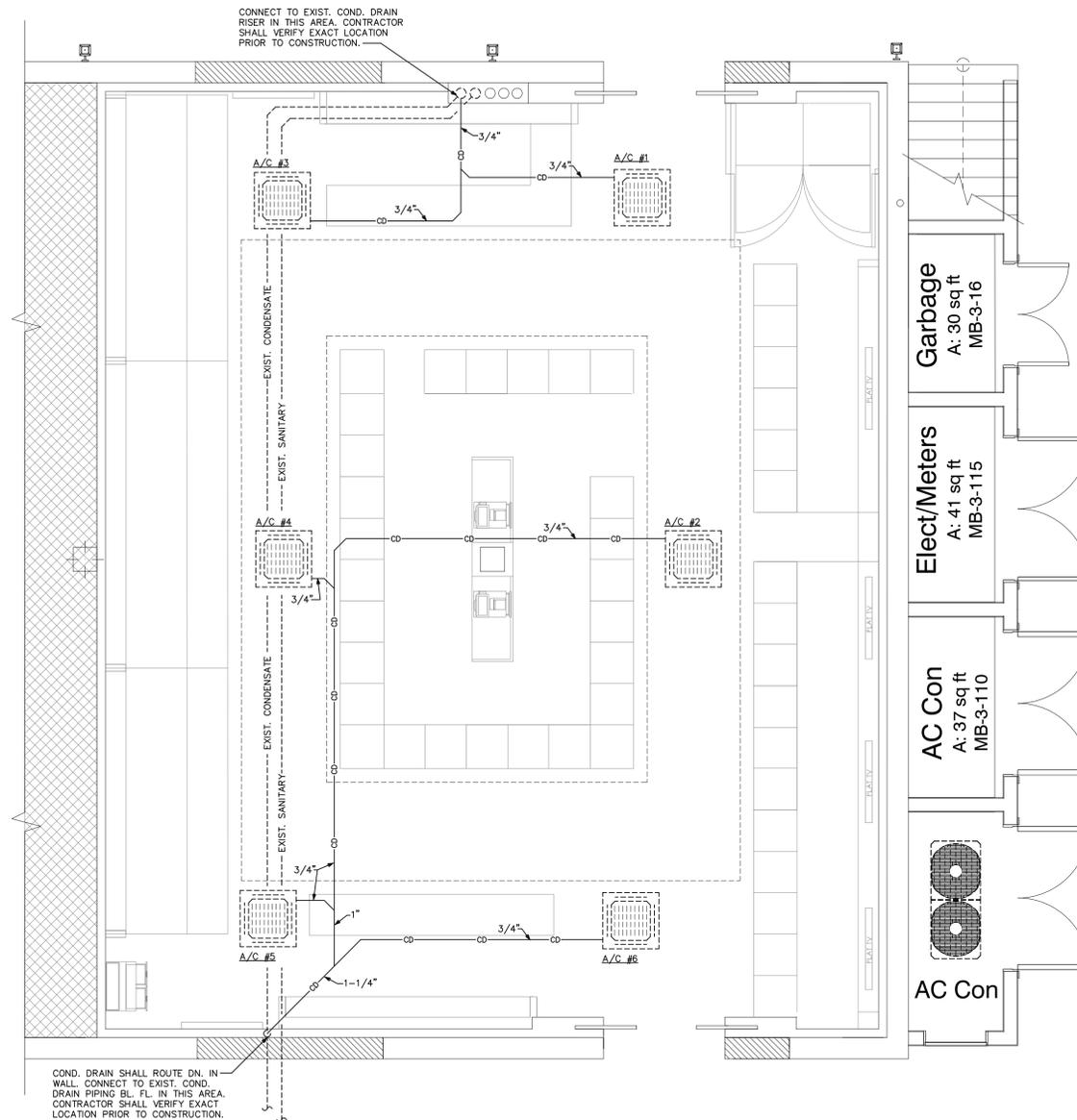
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 & ANSI B-91. ALL DUCTWORK SHALL BE FABRICATED, INSTALLED AND SUPPORTED AS PER SMACNA STANDARDS.
- THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS INCIDENTAL TO THE COMPLETION AND TESTING OF THIS WORK.
- THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WORK WITH OTHER TRADES TO INSURE AN ORDERLY PROGRESS OF THIS WORK.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS UPON COMPLETION OF THIS PROJECT. CONTRACTOR SHALL ALSO LEAVE FOR ONE AT LEAST ONE SET OF THE MANUFACTURER'S INSTALLATION AND OPERATIONS MANUALS FOR ALL EQUIPMENT PROVIDED ON THE PROJECT.
- ALL PROVIDED MATERIALS SHALL BE NEW OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
- CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT. IT IS STRONGLY PREFERRED THAT THE SUBMITTALS BE MADE IN THE FORM OF AN ELECTRONIC SUBMITTAL IN A PDF TYPE FORMAT.
- ALL AIR CONDITIONING DUCTWORK SHALL BE OF STANDARD DUTY FOIL REINFORCED FIBERGLASS BOARD WITH MANUFACTURER'S LOGO PRINTED ON VAPOR BARRIER OF ALL DUCTWORK. SUPPLY DUCTBOARD SHALL HAVE A MIN. OF R-8 INSULATION VALUE AND RETURN AIR DUCTBOARD SHALL HAVE A MIN. OF R-4.2 INSULATION VALUE. ALL FLEX DUCT SHALL BE "THERMOFLEX" WITH A MINIMUM 4.2 R VALUE. OR APPROVED EQUAL AND SHALL HAVE EQUIVALENT INSULATION.
- ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
- DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
- ALL AIR DEVICES (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BAKED ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE TITUS, METALAIR, AIRGUIDE. PROVIDE OPPOSED BLADE DAMPERS AT ALL DIFFUSERS AND REGISTERS.
- REFRIGERANT LINES SHALL BE COPPER, TYPE "L" HARD DRAWN WITH WROUGHT COPPER SOLDER-JOINT TYPE FITTINGS, USE 95/5 SOLDER. REFRIGERANT LINES SHALL SIZED AS PER MANUFACTURER RECOMMENDATIONS.
- SPLIT SYSTEMS (IF APPLICABLE) SHALL HAVE A MINIMUM OF 1-1/2" ARMAFLEX INSULATION (OR APPROVED EQUAL) USED FOR SUCTION LINES. INSTALLATION SHALL BE AS PER MANUFACTURER'S INSTRUCTIONS. PRE-INSULATED LINES SETS ARE ACCEPTABLE.
- ALL BRANCH TAKE-OFFS TO BE PROVIDED W/MANUAL VOLUME DAMPERS AND TAPS AS PER PLANS REQUIREMENTS. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING THEM. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
- MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCH. PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND WIND LOADING PERFORM AS REQUIRED BY LOCAL CODES. REFER TO STRUCTURAL PLANS BY OTHERS FOR STRUCTURAL DETAILS.
- PROVIDE ALL NECESSARY CONTACTORS, RELAYS, ETC., FOR A COMPLETE OPERATING SYSTEM.
- THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE TENANT. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITH NO ADDITIONAL COST TO THE TENANT, WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.
- NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR BEARS ULTIMATE RESPONSIBILITY FOR COMPLIANCE OF THE INSTALLATION WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH ERROR OR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILING TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST OF RECTIFYING SAME.

PLUMBING ABBREVIATION LEGEND					
DN.	DOWN	C.C.	CENTER TO CENTER	F.U.	FIXTURE UNITS
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE	H.B.	HOSE BIBBS
F.D.	FLOOR DRAIN	MFG.	MANUFACTURER	C.O.	CLEANOUT
F.F.	FINISH FLOOR	S.O.V.	SHUT OFF VALVE	E.W.H.	ELECTRIC WATER HEATER
A.F.F.	ABOVE FINISH FLOOR	W.C.	WATER CLOSET	JAN.SK.	JANITOR SINK
V.T.R.	VENT THRU ROOF	L.V.	LABORATORY	P & T	PRESSURE & TEMPERATURE
TYP.	TYPICAL	SK.	SINK	RWL	RAIN WATER LEADER
R.D.	ROOF DRAIN	D.W.	DISH WASHER		
REV.	REVISION	E.D.F.	ELECTRIC DRINKING FOUNTAIN		
O.C.	ON CENTER	UR.	URNAL		

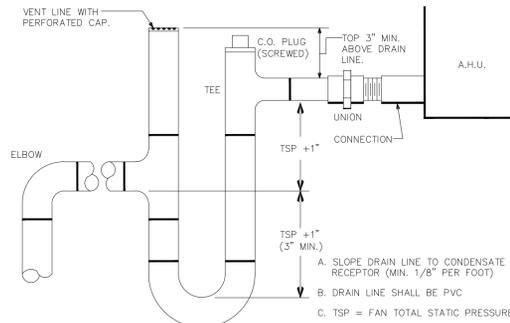
PLUMBING SYMBOLS LEGEND	
	FLOOR DRAIN
	HOSE BIBB
	CLEANOUT
	RELIEF VALVE
	AIR CHAMBER
	UNION
	SOIL OR WASTE LINE
	SANITARY VENT LINE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC WATER RECIRCULATION
	PRESSURE & TEMP. RELIEF LINE
	CONDENSATE DRAIN LINE
	RAIN WATER LEADER
	GAS LINE
	SAFEWASTE LINE
	FIRE PROTECTION
	SHUT OFF VALVE
	SAFEPAN LINE
	FIRE SPRINKLER HEAD
	PIPE TURN UP
	PIPE TURN DOWN
	P-TRAP



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



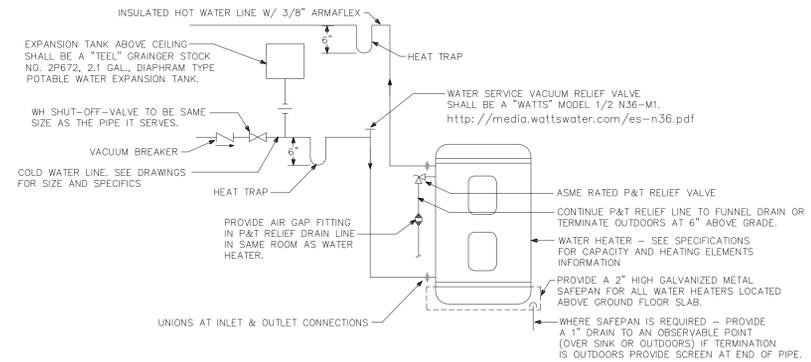
**1 FIRST FLOOR PLAN - PLUMBING**  
SCALE: 1/4"=1'-0"



(A/C #7)

# 1 CONDENSATE P-TRAP DETAIL

NOT TO SCALE



# 2 WATER HEATER DETAIL

NO SCALE

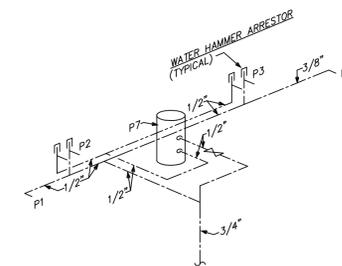
## GENERAL PLUMBING NOTES

- DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, ETC. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND ACCEPTABLE WORKING INSTALLATION. CONTRACTOR IS RESPONSIBLE TO INSTALL ALL FIXTURES AND EQUIPMENT IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THIS REQUIREMENT IS TO SUPERSEDE ANY DETAILS OR INFORMATION CONTAINED ON THESE DRAWINGS.
- ALL WORK AND MATERIALS SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL STATE, AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- THE PLUMBING CONTRACTOR SHALL VISIT THE SITE AND THOROUGHLY FAMILIARIZE HIMSELF WITH ALL EXISTING CONDITIONS. ALL EXECUTION AND BACKFILL AS REQUIRED FOR THIS PHASE OF CONSTRUCTION SHALL BE A PART OF THIS CONTRACT.
- 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 AND ACCEPTED BY ENGINEER/ARCHITECT.
- ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OR PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
- THE PLUMBING CONTRACTOR SHALL SECURE AND PAY ALL PERMIT FEES, INSPECTIONS, AND TESTS.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- THE PLUMBING CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN (1) 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.
- VERIFY LOCATION, SIZE AND INVERTS OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. ADVISE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- ALL FIXTURES SHALL BE PROVIDED WITH READILY ACCESSIBLE STOPS.
- ALL BELOW FLOOR SLAB WATER PIPING SHALL BE FLEXIBLE "TEMPRITE PEX (CROSS-LINKED POLYETHYLENE)" INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS FOUND HERE: [WWW.FLOWGUARDGOLD.COM](http://WWW.FLOWGUARDGOLD.COM). ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS FOUND HERE: [WWW.FLOWGUARDGOLD.COM](http://WWW.FLOWGUARDGOLD.COM). ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL. ALL WATER PIPING LARGER THAN 2" SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2, 1/2" AND LARGER.
- SOIL, WASTES AND VENT PIPING SHALL BE PVC #40 DMV. WASTE AND VENT PIPING ABOVE SLAB SHALL BE PVC, IF APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION, OTHERWISE CAST IRON. PVC SHALL NOT BE INSTALLED IN A/C RETURN AIR PLENUM OR PENETRATE FIRE RATED WALLS OR FLOORS.
- AIR CONDITIONING CONDENSATE DRAIN PIPING SHALL BE PVC #40 OR COPPER DRAIN WASTE AND BENT PIPE AND FITTINGS. INSULATE ALL CONDENSATE PIPING EXCEPT EXTERIOR PIPING. INSTALL ALL CONDENSATE PIPING FOR AIR CONDITIONING UNITS AS REQUIRED PER LOCAL CODES.
- FURNISH AND INSTALL APPROVED WATER HAMMER ARRESTORS AT EACH GROUP OF FIXTURES. INSTALLATION OF WATER HAMMER ARRESTORS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL AN APPROVED WATER HAMMER ARRESTOR AT EACH FIXTURE OR DEVICE THAT HAS A SOLENOID WATER CONTROL VALVE.
- PROVIDE CHROME PLATED COMBINATION COVERED PLATE AND CLEANOUT PLUG FOR ALL WALL CLEANOUTS, JOSAM 58890.
- INSULATE LINES AS FOLLOWS:
  - 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON BOTH C.W. & H.W. WHEN PIPING IS LOCATED OUTSIDE OF THE INSULATED BUILDING ENVELOPE.
  - 1-1/2" THICK ARMAFLEX PREFORMED INSULATION SHALL BE PROVIDED ON HW PIPING & H.W. RECIRC. PIPING, ONLY WHEN THERE IS A H.W. RECIRCULATING PIPING SYSTEM.
  - CONDENSATE PIPING: 1/2" THICK ARMAFLEX PREFORMED OR APPROVED EQUAL.

## PLUMBING FIXTURE SCHEDULE

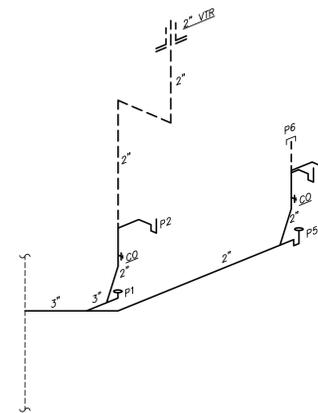
<p><b>P-1 (HANDICAPPED FLOOR MOUNTED FLUSH TANK WATER CLOSET)</b> SHALL BE AN AMERICAN STANDARD MODEL 2467.016 CADET 1.6 GPF RIGHT HEIGHT ELONGATED PRESSURE ASSISTED TOILET. VITREOUS CHINA, LOW-CONSUMPTION (1.6 GPF), CLOSE-COUPLED FLUSHOMETER TANK WITH RISE AND SHINE ELONGATED OPEN FRONT SEAT AND COVER AMERICAN STANDARD MODEL 5325.024 . * <a href="http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_2669.pdf">http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_2669.pdf</a></p>
<p><b>P-2 (HANDICAPPED WALL HUNG LAVATORY)</b> SHALL BE AN AMERICAN STANDARD MISSOURI LAVATORY MODEL 0436.004US, VITREOUS CHINA, WALL MOUNT WITH CONCEALED ARMS SUPPORT. PROVIDE AN AMERICAN STANDARD MONTERREY MODEL 6531.170 CENTERSET FAUCET WITH 4" WRIST BLADE HANDLES. WATER PIPING AND P-TRAP SHALL BE COVERED WITH AN UNDERSINK PROTECTIVE PIPE COVER KIT BY TRUEBRO (<a href="http://WWW.TRUEBRO.COM">HTTP://WWW.TRUEBRO.COM</a>) OR APPROVED EQUAL. * <a href="http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_4486.pdf">http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_4486.pdf</a> * <a href="http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_426.pdf">http://www.americanstandard-us.com/assets/documents/amstd/spec/SpecSheet_426.pdf</a></p>
<p><b>P-3 (HANDICAPPED DOUBLE BOWL STAINLESS STEEL SINK)</b> SHALL BE A "JUST" MODEL DL-ADA-1933-A-GR, 19"X33"X6-1/2" DOUBLE BOWL, SEAMLESS DIE-DRAWN CONSTRUCTION OF TYPE 304, 18-8 STAINLESS STEEL, INTERIOR AND TOP SURFACES POLISHED TO A NON-POROUS HAND-BLENDED JUST FINISH WITH HIGHLIGHTED BOWL RIM. FULLY COATED UNDERSIDE INSULATES FOR SOUND, AND REDUCES CONDENSATION. STRAIGHT-SIDED COMPARTMENT WITH 1 3/4" RADIUS CORNERS PROVIDES GREATER CAPACITY. SELF-RIMMING TOP MOUNT GRIP-RIM PLUS WITH 300 SERIES STAINLESS STEEL MOUNTING CHANNELS. DRAIN PUNCH #35 CENTERED FOR JUST J-35 UNLESS OTHERWISE SPECIFIED. FAUCET SHALL BE A "JUST" MODEL J-1174-KS WITH 4" WRIST BLADE HANDLES. * <a href="http://www.justmfg.com/PDF/DLADA1933A.pdf">http://www.justmfg.com/PDF/DLADA1933A.pdf</a> * <a href="http://www.justmfg.com/PDF/J-29.pdf">http://www.justmfg.com/PDF/J-29.pdf</a></p>
<p><b>P-4 (HUB DRAIN - INDIRECT WASTE FUNNEL)</b> SHALL BE A "ZURN" Z326, 2" PIPE CONNECTION, DURA-COATED CAST IRON BODY AND BOTTOM OUTLET. CONTRACTOR SHALL VERIFY FINAL HEIGHT OF FUNNEL WITH EQUIPMENT THAT IS UTILIZING FUNNEL DRAIN AND VERIFY PROPER CLEARANCE PRIOR TO CONSTRUCTION. COORDINATE WITH EQUIPMENT MANUFACTURER. * <a href="http://content.zurn.com/web_documents/pdfs/specsheets/z326.pdf">http://content.zurn.com/web_documents/pdfs/specsheets/z326.pdf</a></p>
<p><b>P-5 (WATER CONNECTION BOX)</b> SHALL BE A HIGH QUALITY CONNECTION BOX AS SPECIFIED ON <a href="http://WWW.PLUMBINGSUPPLY.COM">PLUMBINGSUPPLY.COM</a> LOCATED ON THIS PAGE "<a href="http://www.plumbingsupply.com/licemaker-outlet-boxes.html">http://www.plumbingsupply.com/licemaker-outlet-boxes.html</a>" SHALL INCLUDE 2 SUPPORT BRACKETS, HIGH IMPACT POLYSTYRENE, 1/4" BRASS BALL VALVE WITH 1/2" SWEAT CONNECTION. OR APPROVED EQUAL.</p>
<p><b>P-6 (2" STUDOR VENT - AIR ADMITTANCE VALVE)</b> SHALL BE A IPS CORPORATION "STUDOR MINI-VENT", 2" VENT. * <a href="http://www.ipscorp.com/plumbing/studor/mini-vent">http://www.ipscorp.com/plumbing/studor/mini-vent</a></p>
<p><b>P-7 (JUNIOR WATER HEATER)</b> WATER HEATER SHALL BE A LOCHINVAR MODEL JRC010DS, 10 GALLON GLASSLINED STORAGE TANK, JUNIOR TYPE WATER HEATER WITH (1) - 1.6 KW ELECTRIC ELEMENT AT 115 VOLTS, SINGLE PHASE INCOMING POWER, 3 YEAR LIMITED WARRANTY ON STORAGE TANK AGAINST TANK FAILURE. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE STANDARD 90-90A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION. * <a href="http://lochinvar.com/_jlinefiles/JRE-06.pdf">http://lochinvar.com/_jlinefiles/JRE-06.pdf</a></p>

- NOTES:
- ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL.
  - PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.



# 3 WATER ISOMETRIC

NO SCALE



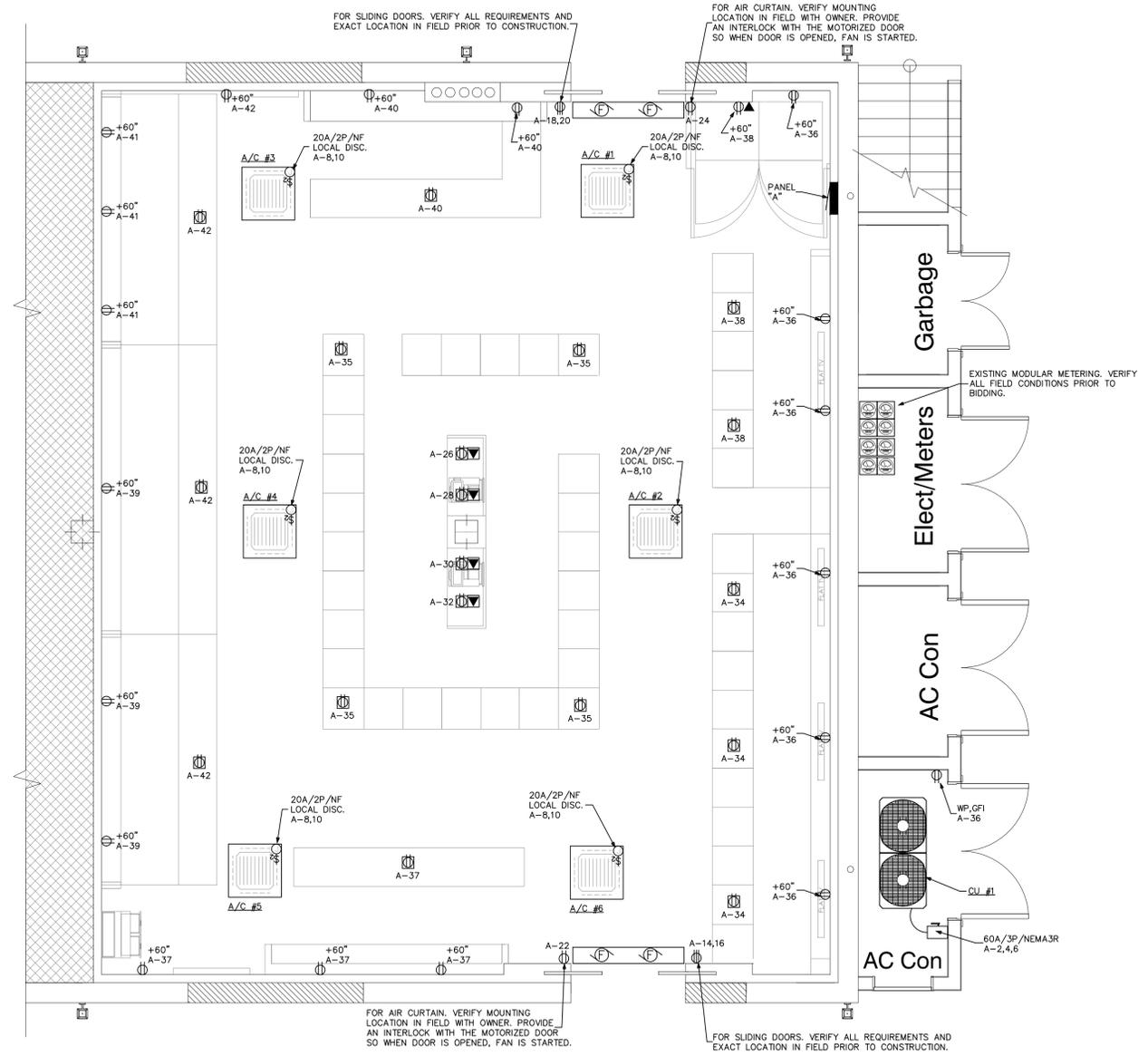
# 4 SANITARY ISOMETRIC

NO SCALE

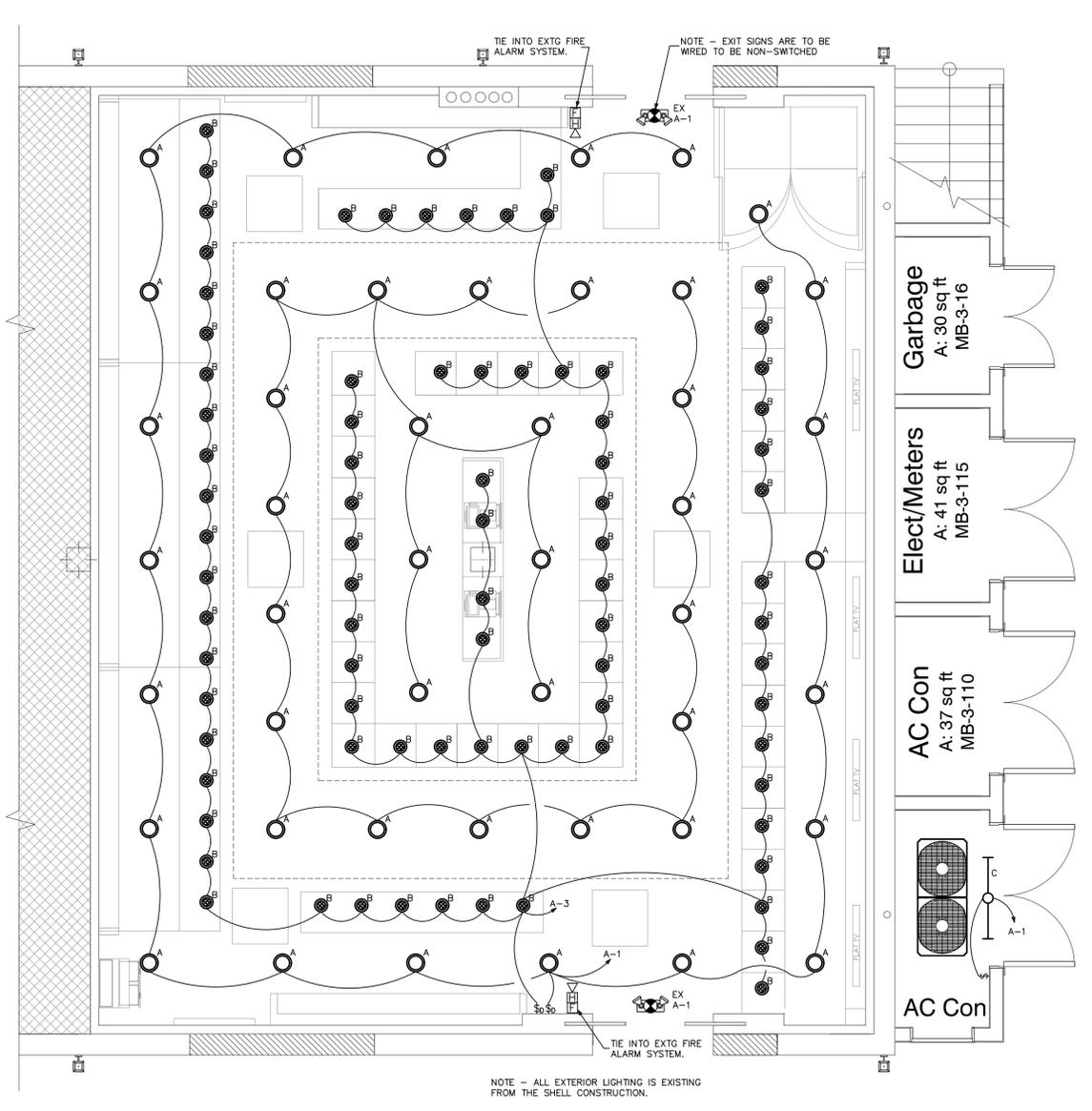
PANEL A DIVERSIFICATION CALCULATIONS	
RECEPTACLES (54) - 9720 VA TOTAL	
FIRST 10 KVA AT 100% -	9720
REMAINING 44 AT 75% -	4179
HVAC LOAD AT 100% -	17803
MOTOR LOADS AT 100% -	3910
PLUS 25% OF THE LARGEST MOTOR -	3636
MISC NON-CONTINUOUS LOADS AT 100% -	4500
TOTAL DIVERSIFIED PANEL LOAD -	43748
LOAD AT 120/208V/3-PHASE/4-WIRE -	121.5A

PANEL SCHEDULE A																		
200 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 18000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																		
#	BKR.	WIRE AND CONDUIT				LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT				BKR. #		
		COND.	NEUTRAL	OND	C.							KEYS	C.	OND	NEUTRAL		COND.	
1	20/1	#12	#12	#12	1/2	CHAL	LED SALES LIGHTING	850	850							2		
3	20/1	#12	#12	#12	1/2	CHAL	LED SALES LIGHTING	1411	1411							2		
5							SPACE	0	5148		CONDENSING UNIT	CHAL	3/4	#10	---	#6	60/3	4
7							SPACE	0	0									6
9							SPACE	0	790									8
11							SPACE	0	0		AIR HANDLING UNITS	CHAL	1/2	#14	---	#14	15/2	10
13							SPACE	0	0									12
15							SPACE	0	416									14
17							SPACE	0	0									16
19							SPACE	0	416									18
21							SPACE	0	0									20
23							SPACE	1123	1123									22
25							SPACE	0	0		DOOR AIR CURTAIN	CHAL	1/2	#12	#12	#12	20/1	24
27							SPACE	1123	0		DOOR AIR CURTAIN	CHAL	1/2	#12	#12	#12	20/1	24
29							SPACE	180	180									26
31	100/3	#3	#3	#8	1-1/4	CHAL	OFFICE PANELBOARD 'A1'	180	180									28
33								2760	2910									30
35	20/1	#12	#12	#12	1/2	CHAL	SALES FLOOR OUTLETS	180	180									32
37	20/1	#12	#12	#12	1/2	CHAL	SALES FLOOR OUTLETS	540	540									34
39	20/1	#12	#12	#12	1/2	CHAL	SALES FLOOR OUTLETS	720	720									36
41	20/1	#12	#12	#12	1/2	CHAL	SALES FLOOR OUTLETS	720	720									38
								540	540									40
								540	540									42
								720	720									

ELECTRICAL SYMBOLS LEGEND			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION
	DUPLEX RECEPTACLE, MTD. +18" AFF		TRANSFORMER - SIZE AS NOTED
	240 VOLT RECEPTACLE (HT. AS REQ.)		PANEL - SIZE AS NOTED
	QUADRUPLEX RECEPTACLE, MTD. +18"		MOMENTARY CONTACT PUSH BUTTON
	COUNTERTOP HT. RECEPTACLE +42"		F-FAN; M-MOTOR; P-PUMP
	SINGLE POLE SWITCH, MTD +47"		SPECIAL OUTLET - AS REQUIRED
	THREE-WAY SWITCH, MTD +47"		CKT. HOMERUN (B INDICATES PANEL)
	MANUAL STARTER SWITCH		EXIT SIGN: ONE SIDED, OR TWO SIDED
	DIMMER SWITCH, MTD +47"		EMERGENCY LIGHTING
	SWITCH W/ ILLUM WHEN ON MTD +47"		RECESSED MOUNTED LIGHTING FIXTURE
	THREE-WAY SWITCH W/ OCCU SENSOR MTD +47"		FLUORESCENT LIGHTING FIXTURE
	SWITCH W/ OCCU SENSOR		OVERHEAD OCCUPANCY SENSOR
	JUNCTION BOX, FLUSH IF POSSIBLE		HIGHBAY HLD LIGHTING FIXTURE
	TELEPHONE / DATA OUTLET +18"		B DESIGNATES FIXTURE TYPE
	DED. COMPUTER TERM. OUTLET +18"		B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH W/ STARTER		B DESIGNATES FIXTURE TYPE
	DISCONNECT SWITCH		B DESIGNATES FIXTURE TYPE
	FLR. MTD. FLUSH DUPLEX RECEPTACLE		IG ISOLATED GROUND
	FLR. MTD. FLUSH QUAD. RECEPTACLE		WP WEATHER-PROOF
	FLR. MTD. FLUSH PHONE/DATA OUTLET		BC BELOW COUNTER
	FLR. MTD. FLUSH COMPUTER OUTLET		TC TIME CLOCK - 24 HOUR
	AREA SMOKE DETECTOR		GFI GROUND FAULT INTERRUPTER
	HEAT DETECTOR		AFF ABOVE FINISHED FLOOR
	DUCT SMOKE DETECTOR		EWV ELECTRIC WATER COOLER
	FIRE ALARM MAN. PULL STATION +47"		ASW ABOVE SHOW WINDOW
	HORN WITH STROBE LIGHT, MTD. +80"		BSW BELOW SHOW WINDOW
	FIRE ALARM CONTROL PANEL		FACP FIRE ALARM CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL		FAAP FIRE ALARM ANNUNCIATOR PANEL



**2 FIRST FLOOR PLAN - POWER**  
SCALE: 1/4"=1'-0"



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

LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	RECESSED LED DOWNLIGHT	WHITE		120	17W LED 4K COLOR	TO BE PROVIDED BY OWNER	PROVIDED BY OWNER, INSTALLED AND WIRED BY ELECTRICIAN
B	RECESSED LED DOWNLIGHT	WHITE		120	17W LED 5K COLOR	TO BE PROVIDED BY OWNER	PROVIDED BY OWNER, INSTALLED AND WIRED BY ELECTRICIAN
C	4' FLUORESCENT STRIP	WHITE		120	(2) 32W T8	LITHONIA C-232-MVOLT	
D	FLUORESCENT U.C. LIGHT	WHITE	PRISMATIC	120	(2) 13W T5	LITHONIA UC-42E-120	
EX	EXIT SIGN / EGRESS LIGHT	WHITE	RED	120	INCLUDED	LITHONIA LHQM-MVOLT	W/ BATTERY BACKUP
F	RECESSED 2'x2' TROFFER	WHITE	PRISMATIC	120	(3) 17W T8	LITHONIA 2SP8G-317-FWA12-120	
G	FLUORESCENT WALL LIGHT	WHITE	PRISMATIC	120	(2) 17W T8	LITHONIA WC-217-A12-120	

- ELECTRICAL NOTES:**
- GENERAL: ALL WORK SHALL CONFORM TO THE LATEST APPROVED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND ALL LOCAL JURISDICTIONAL CODES. THE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND ANY APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, THE CONTRACTOR SHALL NOTIFY THE OWNER OR HIS REPRESENTATIVE AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM, AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL THE OWNER HAS DIRECTED THE CORRECTIVE ACTION TO BE TAKEN. THE CONTRACTOR SHALL COORDINATE THE PROPOSED LOCATIONS OF ALL ELECTRICAL MATERIALS AND EQUIPMENT WITH THE REPRESENTATIVES OF THE OTHER TRADES INVOLVED BEFORE STARTING INSTALLATION OF THOSE ITEMS. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES, CONDUIT, AND SLEEVES TO BE SET IN CAST-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS, AS THEY ARE CONSTRUCTED. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL SPECS ARE NOT INTENDED TO BE PROPRIETARY. SUBSTITUTIONS WILL BE ACCEPTABLE FOR EQUAL RATED AND LISTED UNITS.
  - SCOPE: EXCEPT WHERE OTHERWISE SPECIFICALLY INDICATED ON THE DRAWINGS BY "FUTURE", "BY OTHERS", OR BY A SIMILAR NOTATION, IT IS THE INTENT THAT THE CONTRACTOR FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS NECESSARY TO PROVIDE ALL SYSTEMS IN COMPLETE AND OPERATING CONDITION.
  - EXCAVATE AS NECESSARY FOR THE INSTALLATION OF ELECTRICAL MATERIALS AND EQUIPMENT. VERIFY THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES OR STRUCTURES BEFORE EXCAVATING AND EXERCISE CARE TO AVOID DAMAGE TO SUCH ITEMS DURING EXCAVATION. BACKFILL WITH EARTH FREE OF LARGE CLODS, LARGE STONES AND FOREIGN DEBRIS. DEPOSITED IN 6" LAYERS AND COMPACTED TO A DENSITY OF NOT LESS THAN THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
  - MATERIALS: THE MATERIALS AND EQUIPMENT FURNISHED SHALL NOT BE MADE EXCEPT WHERE EXPRESSLY APPROVED BY THE OWNER OR HIS REPRESENTATIVE PRIOR TO STARTING INSTALLATION OF THE ITEMS. THE ELECTRICAL MATERIALS AND EQUIPMENT FURNISHED SHALL BE LISTED OR LABELED BY UNDERWRITERS LABORATORIES OR OTHER RECOGNIZED TESTING ORGANIZATION, AND SHALL BE ACCEPTABLE TO THE LOCAL BUILDING AUTHORITY.
  - GROUNDING: GROUNDING SHALL BE IN ACCORDANCE WITH ARTICLE 250, NEC.
  - SHARED NEUTRAL CONDUCTORS SHALL NOT BE ALLOWED UNLESS INSTALLED IN ACCORDANCE WITH NEC-210.4.
  - CONDUITS: PROVIDE CONDUITS WHERE CALLED FOR ON PANEL SCHEDULES. ELECTRICAL METALLIC TUBING (EMT) SHALL BE INSTALLED ONLY IN DRY LOCATIONS, IN CONCRETE ABOVE GRADE, AND WHERE NOT SUBJECT TO PHYSICAL DAMAGE. CONDUITS INSTALLED UNDERGROUND SHALL BE POLYVINYLCHLORIDE (PVC) AND SHALL NOT BE SMALLER THAN 3/4" TRADE SIZE. WHERE PVC CONDUIT IS INSTALLED UNDERGROUND, ELBOWS TURNING UP AND CONDUIT EMERGING ABOVE GRADE SHALL BE RSC. THE TOPS OF CONDUITS SHALL NOT BE LESS THAN 24" BELOW FINISHED GRADE. PVC CONDUIT INSTALLED ABOVE GRADE OR DIRECT-BURIED IN EARTH SHALL BE NEMA TC2 TYPE EPC-40-PVC (SCHEDULE 40) EXCEPT THAT WHERE UNDER AREAS SUBJECT TO HEAVY VEHICULAR TRAFFIC, IT SHALL BE NEMA TC2 TYPE EPC-80-PVC (SCHEDULE 80). ALL ARMOR CLAD CABLE (AC CABLE) WIRING SHALL MEET OR EXCEED ALL NEC, OSHA AND HUD STANDARDS.
  - CONDUCTORS: CONDUCTORS SHALL BE AS SCHEDULED ON PANEL SCHEDULES. ALL POWER CONDUCTORS SHALL NOT BE SMALLER THAN #14 AWG (CU), OR #12 AWG (AL), CONTROL CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #18 AWG CU. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET WITHOUT SPLICES EXCEPT WITHIN WIREWAY OR JUNCTION BOXES. MARK CONDUCTORS IN PANELS, PULL BOXES OR WIREWAYS AND TERMINAL STRIP TERMINALS FOR IDENTIFICATION OF CIRCUITS. CONDUCTORS SHALL BE JOINED USING COMPRESSION SPLICES, EXCEPT THAT CONDUCTORS #10 AND SMALLER MAY BE JOINED USING WIRE NUT TYPE CONNECTORS. CONDUCTORS SHALL BE TERMINATED USING COMPRESSION OR PRESSURE-TYPE TERMINAL LUGS, OR IN PRESSURE-TYPE TERMINALS. COMPRESSION SPLICES USED ON CONDUCTORS #10 AWG AND SMALLER, SHALL BE THE SELF-INSULATED TYPE. OTHER SPLICES SHALL BE INSULATED USING 3M #33+ OR #88 PLASTIC TAPE. SPLICES IN WET LOCATIONS SHALL BE INSULATED WITH ELECTRICAL TAPE AND ENCAPSULATED WITH SCOTCHCAST OR EQUAL POTING COMPOUND.
  - PROVIDE AND INSTALL JUNCTION AND PULL BOXES WHERE INDICATED AND WHERE NECESSARY TO TERMINATE, TAP OFF, OR REDIRECT MULTIPLE CONDUIT RUNS, OF SIZE INDICATED OR AS REQUIRED BY NEC. WHERE FEEDER SPLICES ARE TO BE MADE, INSTALL BOXES LARGE ENOUGH TO PROVIDE AMPLE WORK SPACE.
  - LIGHTING FIXTURES: LIGHTING FIXTURES SHALL BE AS INDICATED ON THE DRAWINGS, AND SHALL BE INSTALLED COMPLETE WITH LAMPS. FIXTURES WITH ADJUSTMENTS AFFECTING LIGHT DISTRIBUTION SHALL BE SET TO PROVIDE THE REQUIRED LIGHT PATTERNS PRIOR TO THE FINAL DEMONSTRATION TEST.
  - TESTS: AFTER EACH SYSTEM HAS BEEN COMPLETED, A FUNCTIONAL TEST SHALL BE PERFORMED TO DEMONSTRATE THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS. THE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF THE OWNER OR HIS REPRESENTATIVE.
  - TERMINALS: ALL ELECTRICAL EQUIPMENT FURNISHED ON THIS PROJECT IS TO HAVE TERMINALS RATED FOR 75° C. OPERATION.

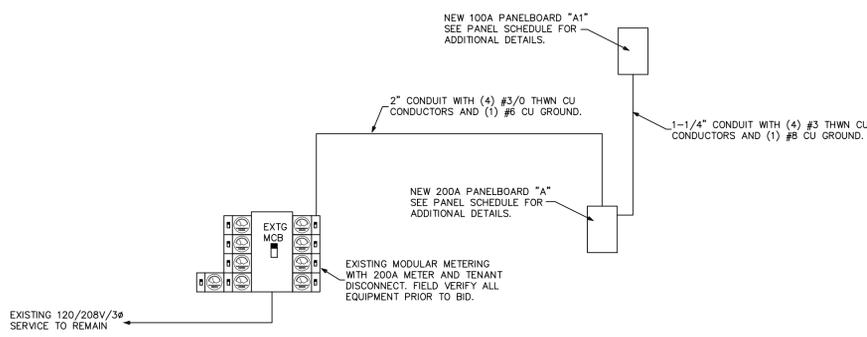
PANEL SCHEDULE A1																	
100 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 10000 AMPS MINIMUM A.I.C. BRACING, FLUSH MOUNTED, TYPE NEMA 1 ENCLOSURE																	
#	BKR.	WIRE AND CONDUIT			LOAD DESCRIPTION	NEUT.	LINE A	LINE B	LINE C	LOAD DESCRIPTION	WIRE AND CONDUIT			BKR.	#		
		COND.	NEUTRAL	GND							KEYS	C.	GND			NEUTRAL	COND.
1	20/1	#12	#12	1/2	CHAL LIGHTING	1082	1082								2		
3	20/1	#12	#12	1/2	CHAL RECEPTACLES	900	900			OFFICE AHU	CHAL	1/2	#12	---	#12	20/2	4
5	20/1	#12	#12	1/2	CHAL RECEPTACLES	720	720										
7	20/1	#12	#12	1/2	CHAL RECEPTACLES	1500	1500			WATER HEATER	CHAL	1/2	#12	#12	#12	20/1	6
9	20/1	#12	#12	1/2	CHAL RECEPTACLES	360	360			REFRIGERATOR	CHAL	1/2	#12	#12	#12	20/1	8
11	20/1	#12	#12	1/2	CHAL RECEPTACLES	360	360			COPY MACHINE / PRINTER	CHAL	1/2	#12	---	#12	20/2	10
13					SPACE	0	0										
15					SPACE	180	180			BREAK COUNTER OUTLET	CHAL	1/2	#12	#12	#12	20/1	14
17					SPACE	180	180			BREAK COUNTER OUTLET	CHAL	1/2	#12	#12	#12	20/1	16
19					SPACE	180	180			BREAK COUNTER OUTLET	CHAL	1/2	#12	#12	#12	20/1	18
21					SPACE	0	0										
23					SPACE	0	0										
24					SPACE	0	0										

WIRE/CONDUIT KEY: WIRING TYPE, INSULATION, CONDUIT TYPE, TEMP. RATING, L-78-86 Deg. F.

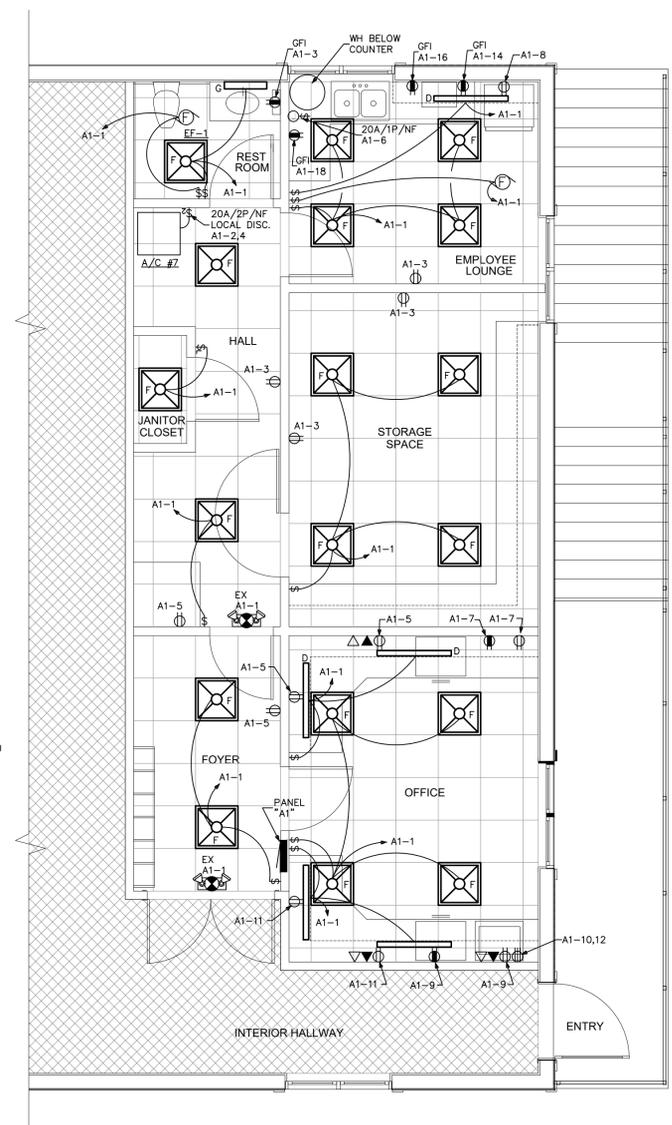
PEAK PHASE (C) UNBALANCED NEUTRAL LOAD AMPS = 23. AMPS  
NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 26.7 AMPS

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REGISTERED TO - TODD W. CAREY AND ASSOCIATES

PANEL A1 DIVERSIFICATION CALCULATIONS	
RECEPTACLES (18) - 3240 VA TOTAL	3240
FIRST 10 KWIA AT 100%	3240
LIGHTING - 1082 X 125% -	1353
HVAC LOAD AT 100% -	780
PLUS 25% OF THE LARGEST MOTOR -	155
MISC. NON-CONTINUOUS LOADS AT 100% -	4500
TOTAL DIVERSIFIED PANEL LOAD -	10068
LOAD AT 120/208V/3-PHASE/4-WIRE -	28.0A



**2 ELECTRICAL RISER DIAGRAM**  
NO SCALE



**1 SECOND FLOOR PLAN - ELECTRICAL**  
SCALE: 1/4" = 1'-0"