

(TERMINATION AT WALL)

(TERMINATION AT EDGE OF DECK)

VENT/INTAKE
COMBUSTION AIR DETAIL
NO SCALE

SPECIFIC MECHANICAL NOTES

- ① EF-5 - WALL MOUNTED EXHAUST FAN SHALL BE A "PENN" BREEZEWAY MODEL BL24, BELT DRIVE, 1/4" HP, 470 RPM, 115V/1PH, 1.550 CFM. PROVIDE "PENN" REAR GUARD, WALL MOUNTING SLIDE, INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
* http://www.pemberry.com/files/catalog/Pemberry_Breezeway_Catalog.pdf
- ② EXHAUST AIR INTAKE WALL SHUTTER SHALL BE A "PENN" 28"X28" MODEL EBR RECESSED MOTORIZED SHUTTER WITH ELECTRIC ACTUATOR INTERLOCKED WITH FAN. PROVIDE NEOPRENE GASKET ALONG FULL LENGTH OF BLADE SURFACE. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- ③ 30X24 ALUMINUM "POTTFOR" MODEL EOJ-445 OPERABLE INTAKE STORM LOUVER WITH NEOPRENE GASKET ALONG FULL LENGTH OF EACH BLADE TO SEAL MATING BLADE SURFACE. LOUVER SHALL BE PROVIDED WITH ELECTRIC ACTUATOR INTERLOCKED WITH EF-4. INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
* <http://www.potfor.com/cat/eoj-445.pdf>

GENERAL MECHANICAL NOTES

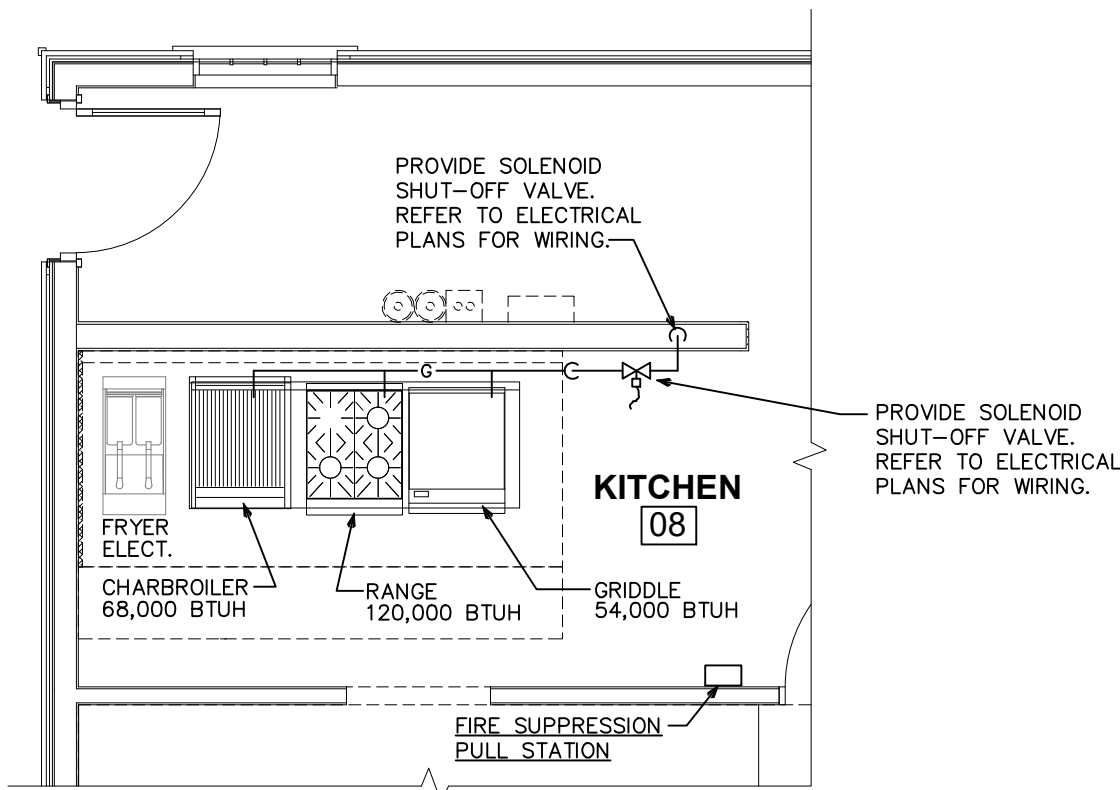
1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS, THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE AND LOCAL ORDINANCES, AND ALL LAWS, ORDINANCES, AND REGULATIONS. THE FOLLOWING PUBLICATIONS: SMACNA, ASHRAE, NFPA 90A, 90B, 91 AND ANSI B-9.1 ALL DUCTWORK SHALL BE FABRICATED, INSTALLED AND SUPPORTED AS PER SMACNA STANDARD.
2. THE CONTRACTOR SHALL PAY ALL COSTS OF PERMIT, INSPECTIONS AND ALL OTHER COSTS NECESSARY TO THE COMPLETION AND TESTING OF THIS WORK.
3. THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WITH OTHER TRADES, TO INSURE AN ORDERLY PROGRESS OF THIS WORK.
4. THE CONTRACTOR SHALL SUPPLY THE OWNER WITH ONE SET OF "AS-BUILT" DRAWINGS OF THE DUCTWORK AND ALL EQUIPMENT. THE CONTRACTOR SHALL LEAVE FOR THE OWNER AT LEAST ONE SET OF THE MANUFACTURER'S INSTALLATION AND OPERATIONS MANUALS FOR ALL EQUIPMENT PROVIDED ON THE PROJECT.
5. THE CONTRACTOR SHALL FURNISH ALL MATERIALS AND EQUIPMENT OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER BY SKILLED WORKMAN.
6. CONTRACTOR SHALL SUBMIT, FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DATA SHEET, AND PRICE AND SPECIFICATIONS OF ALL MATERIALS AND EQUIPMENT. IT IS STRONGLY PREFERRED THAT THE SUBMITTALS BE MADE IN THE FORM OF AN ELECTRONIC SUBMITTAL IN A PDF TYPE FORMAT.
7. ALL SUPPLY AND RETURN AIR DUCTS SHALL BE GALVANIZED SHEET STEEL EXTERNALLY WRAPPED WITH A MIN. OF RS INSULATION OR R8 IF DUCTWORK IS LOCATED EXTERIOR TO BLDG INSULATION ENVELOPE. ALL FLEX DUCT SHALL BE "THERMOFLEX" WITH A MINIMUM OF 1" INSULATION OR APPROVED EQUIVALENT. ALL FLEX DUCTS SHALL BE SETS AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
8. ALL EXHAUST DUCTS AND OUTSIDE AIR DUCTS SHALL BE GALVANIZED SHEET METAL WITH SEALED SEAMS AND JOINTS.
9. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS.
10. ALL AIR MOVING (DIFFUSERS, REGISTERS AND GRILLES) SHALL BE ALL ALUMINUM CONSTRUCTION WITH EXPOSED SURFACE OFF WHITE BLACK ENAMEL FINISH OR AS SPECIFIED BY ARCHITECT. DEVICES SHALL BE TITUS, METALAIR, AIRGUIDE, PROVIDE APPROVED BY THE ARCHITECT. ALL DEVICES SHALL BE REGISTERED.
11. THERMOSTAT SHALL BE COMBINATION COOLING/HEATING, WITH SYSTEM "COOL-AUTO-HEAT-OFF" AND FAN "ON-AUTO" SELECTOR SWITCHES, PROVIDE PROGRAMMABLE TYPE THERMOSTAT. THE CONTRACTOR SHALL PROVIDE ONE SET OF THERMOSTAT INSTALLATION PROGRAM INSTALLED THERMOSTATS. A PROGRAMMABLE THERMOSTAT SHALL BE PROVIDED BY MANUFACTURER OF INSTALLED AIR HANDLING UNIT. IT IS RECOMMENDED THAT DURING DUCTWORK, ALL THERMOSTATS, FANS BE SET TO "ON" IN LINE OF "AUTO". * THERMOSTATS SHALL BE MOUNTED A MAX. OF 48" A.F.F..
12. REFRIGERANT LINES SHALL BE COPPER, TYPE "L". HARD DRAWN WITH WROUGHT COPPER SOLDER-JOINT TYPE FITTINGS, USE 95/5 SOLDER. REFRIGERANT LINES SHALL BE SIZED AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
13. SPLIT SYSTEMS (IF APPLICABLE) SHALL HAVE A MINIMUM OF 1-1/2" ARMAFLEX INSULATION (OR APPROVED EQUIVALENT) BE PROVIDED IN SUCTION LINES. INSTALLATION SHALL BE AS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
14. ALL BRANCH TAKE-OFFS TO BE USED PROVIDED W/MANUAL VALVE DUMPERS AND TAPS AS PER PLANS REQUIREMENTS.
15. PROVIDE NEW FILTERS FOR ALL AIR CONDITIONING EQUIPMENT BEFORE STARTING WORK. REPLACE THEM PRIOR TO FINAL ACCEPTANCE BY OWNER.
16. PROVIDE SMOKE DETECTORS WITH ACCESS DOORS IN ALL RETURN AIR DUCTS FOR FANS AND AHU'S SERVING A COMMON DESIGN SUPPLY OR RETURN PLENUM OF ABOVE 2000 CFM. ALL SUPPLY AND RETURN DUCTS SHALL BE PROVIDED WITH ACCESS DOORS FOR FANS AND AHU'S SERVING A COMMON DESIGN SUPPLY OR RETURN PLENUM OF ABOVE 2000 CFM. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM BEFORE ORDERING. UPON DETECTION, THE ELECTRICAL CONTRACTOR SHALL SHUT DOWN ALL AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVING THAT COMMON PLENUM.
17. HVAC CONTRACTOR SHALL PROVIDE A TEST AND BALANCE REPORT FOR ALL MECHANICAL EQUIPMENT, AIR DEVICES, DAMPERS, AHU'S AND FANS. THE T & B SHALL BE IN ACCORDANCE WITH THE AIR BALANCE TESTING STANDARD. PROVIDE TAP OFF'S FOR AIR QUANTITIES FOR ALL SUPPLY GRILLES, RETURN GRILLES, AND EXHAUST GRILLES, AND THE LEAVING AND ENTERING AIR TEMPERATURE (T) FROM SUPPLY GRILLES AND EVAPORATORS.
18. PROVIDE TAP OFF'S FOR AIR QUANTITIES FOR ALL SUPPLY GRILLES AND EVAPORATORS.
19. ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.
20. MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE, AND DETAIL OF ALL PIPING. ALL PIPING 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.
21. CONTRACTOR SHALL INSTALL ALL OUTDOOR EQUIPMENT TO WITHSTAND WIND LOADING AS SPECIFIED OR AS REQUIRED BY LOCAL CODES. REFER TO STRUCTURAL PLANS BY OTHERS FOR STRUCTURAL DETAILS.
22. PROVIDE ALL NECESSARY CONTRACTS, RELAYS, ETC., FOR A COMPLETE OPERATING SYSTEM.
23. 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 WITHOUT ADDITIONAL COST TO THE TENANT, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO COMPLY WITH THE PROJECT SPECIFICATIONS, THE REQUIREMENTS OF THE SYSTEMS, AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.
24. NOTWITHSTANDING ANY OTHER PROVISIONS OF THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE, AND DETAIL OF ALL PIPING, IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
25. IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE, AND DETAIL OF ALL PIPING, IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
26. IN THE EVENT OF THE CONTRACTOR FAILING TO TAKE SUCH NOTICE BEFORE CONSTRUCTION AND/OR FABRICATION OF THE WORK, HE WILL BE RESPONSIBLE FOR THE LOCATION, SIZE, AND DETAIL OF ALL PIPING, IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
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63. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, SIZE, AND DETAIL OF ALL P

BASEMENT LOWER LEVEL PLAN - MECHANICAL

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

BY	REVISIONS	DATE
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SPECIFIC MECHANICAL NOTES	
1	RETURN AIR DUCT PLENUM SHALL BE FULL SIZE OF AHU RETURN AIR OPENING.
2	3"ø COMBUSTION AIR PIPES UP TO CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT.
3	DIFFUSER SHALL HAVE A 3-WAY THROW PATTERN AS INDICATED.
4	PROVIDE VOLUME CONTROL DAMPER AND MOTORIZED OUTSIDE AIR DAMPER. OUTSIDE AIR DAMPER SHALL AUTOMATICALLY SHUT WHEN THE SYSTEMS OR SPACES SERVED ARE NOT IN USE. VENTILATION OUTSIDE AIR DAMPERS SHALL BE CAPABLE OF AUTOMATICALLY SHUTTING OFF DURING PREOCCUPANCY BUILDING WARMUP, COOLDOWN, AND SETBACK.

SUPPLY DIFFUSER SCHEDULE					
DESIGNATES LABEL FOR DIFFUSER TYPE		ALL DIFFUSERS ARE TO BE PROVIDED WITH OPTIMIZED BLADE DAMPERS UNLESS OTHERWISE SPECIFIED ON PLANS.			
DESIGNATES CFM QUANTITY FOR DIFFUSER					
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS	BORDER TYPE
A	TITUS TDC-AA	6"ø	0 - 125	12X12 LOUVERED FACE	TYPE 3 (LAY-IN)
B	TITUS TDC-AA	8"ø	130 - 200	24X24 LOUVERED FACE	TYPE 3 (LAY-IN)
C	TITUS TDC-AA	10"ø	205 - 325	24X24 LOUVERED FACE	TYPE 3 (LAY-IN)
D	TITUS PCS-AA	10"ø	205 - 325	PERFORATED FACE	TYPE 3 (LAY-IN)
E	TITUS 250-AA	12X4	80 - 150	CEILING REGISTER	TYPE 1 (SURFACE MOUNT)

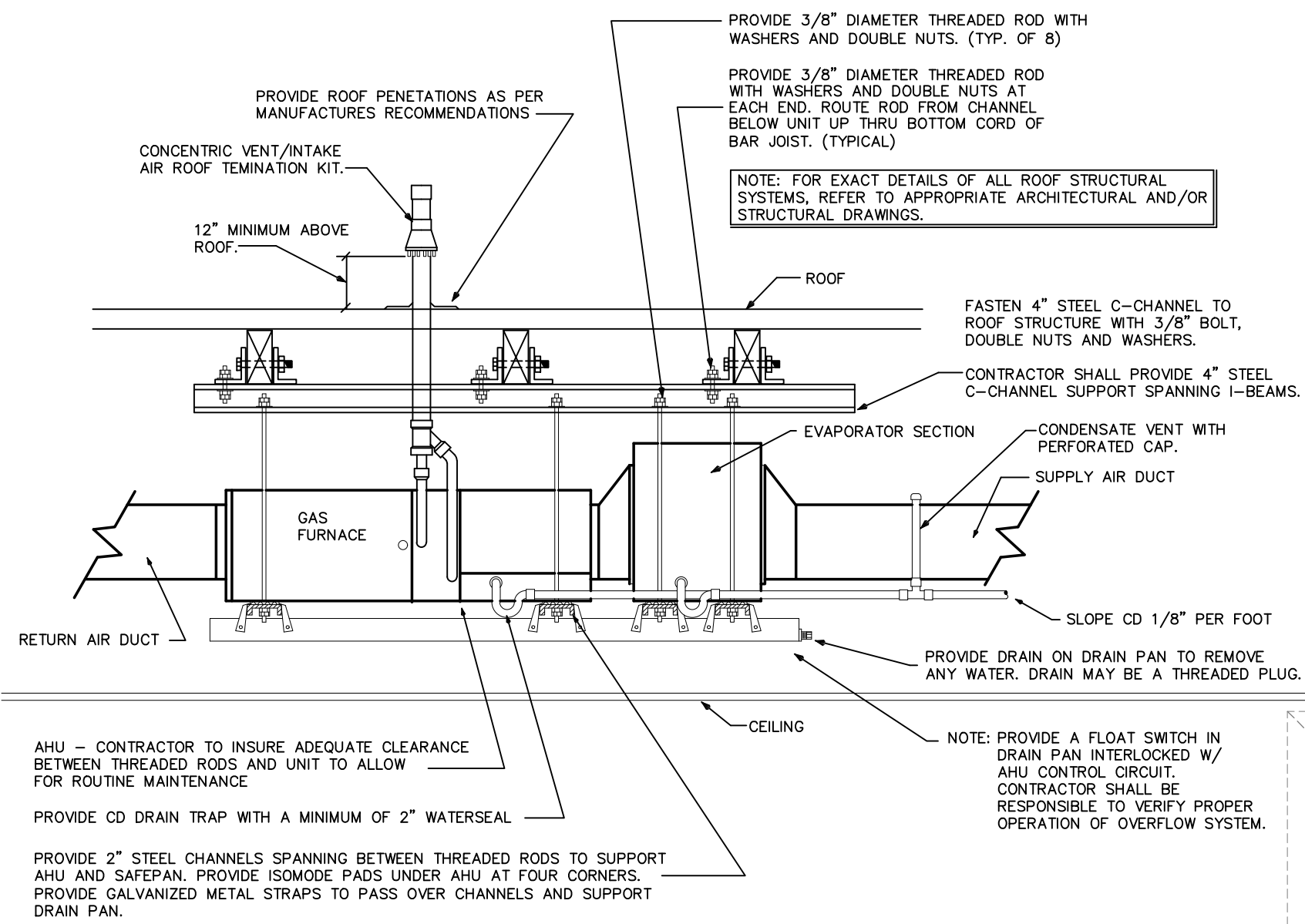
RETURN GRILLE SCHEDULE				
DESIGNATES LABEL FOR GRILLE TYPE		FILTER SHALL BE PROVIDED AT UNIT.		
DESIGNATES CFM QUANTITY FOR GRILLE				
LABEL	MANUFACTURER & MODEL NO.	NECK SIZE	CFM RANGE	REMARKS
1	TITUS 355FL	10X10	0 - 400	LOUVER FACE
2	TITUS CT-580	24"X4"	0 - 200	LINEAR BAR DIFFUSER *
3	TITUS CT-580	48"X6"	500 - 800	LINEAR BAR DIFFUSER *

* CT-580 1/8" THICK BARS / 0" DEFLECTION / 1/8" SPACING WIDTH

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT	
Prescriptive [X]	METHOD OF COMPLIANCE:
	Energy Cost Budget []
Exterior Design Conditions	
winter dry bulb	20° F
summer dry bulb	97° F
Interior Design Conditions	
winter dry bulb	68° F
summer dry bulb	74° F
relative humidity	52.9%
Building Heating Load	196,600 BTU
Building Cooling Load	101,480 BTU
Mechanical Spacing Conditioning System	
Unitary	
Description of unit	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
heating efficiency	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
cooling efficiency	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
heat output of unit	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
cooling output of unit	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
Boiler	N/A
total boiler output, If oversized, state reason.	
Chiller	N/A
total chiller capacity, If oversized, state reason.	
List equipment efficiencies	
Equipment schedules with motors (mechanical systems)	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
motor horsepower	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
number of phases	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
minimum efficiency	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
motor type	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
# of poles	REFER TO EQUIPMENT SCHEDULES ON THIS SHEET.
DESIGNER STATEMENT:1	
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of IECC (International Energy Conservation Code) 2009 Edition w/2012 Amendments.	
SIGNED:	<i>Todd W. Carey</i>
NAME:	TODD W. CAREY
TITLE:	ENGINEER

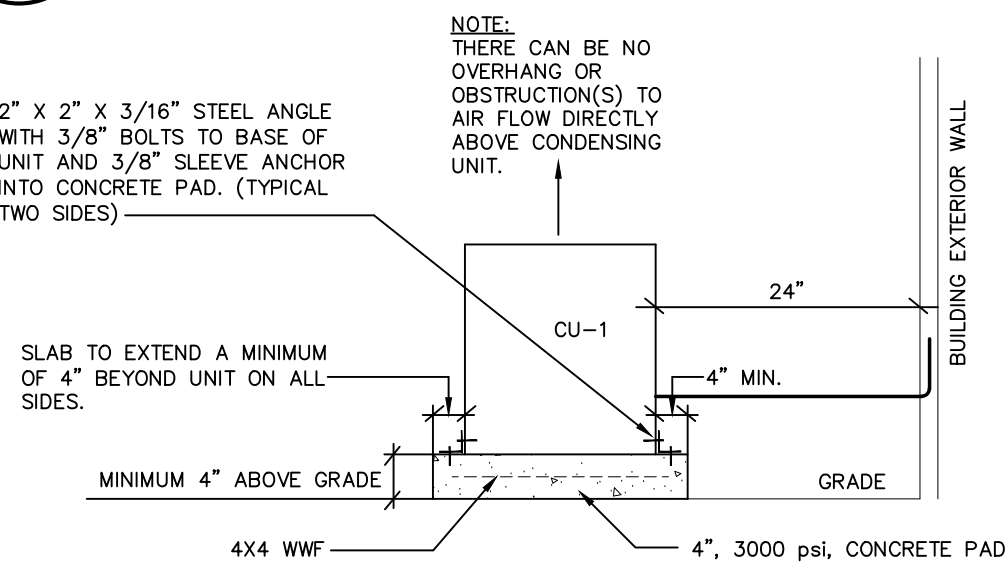
2 PART. KITCHEN PLAN - GAS PIPING

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



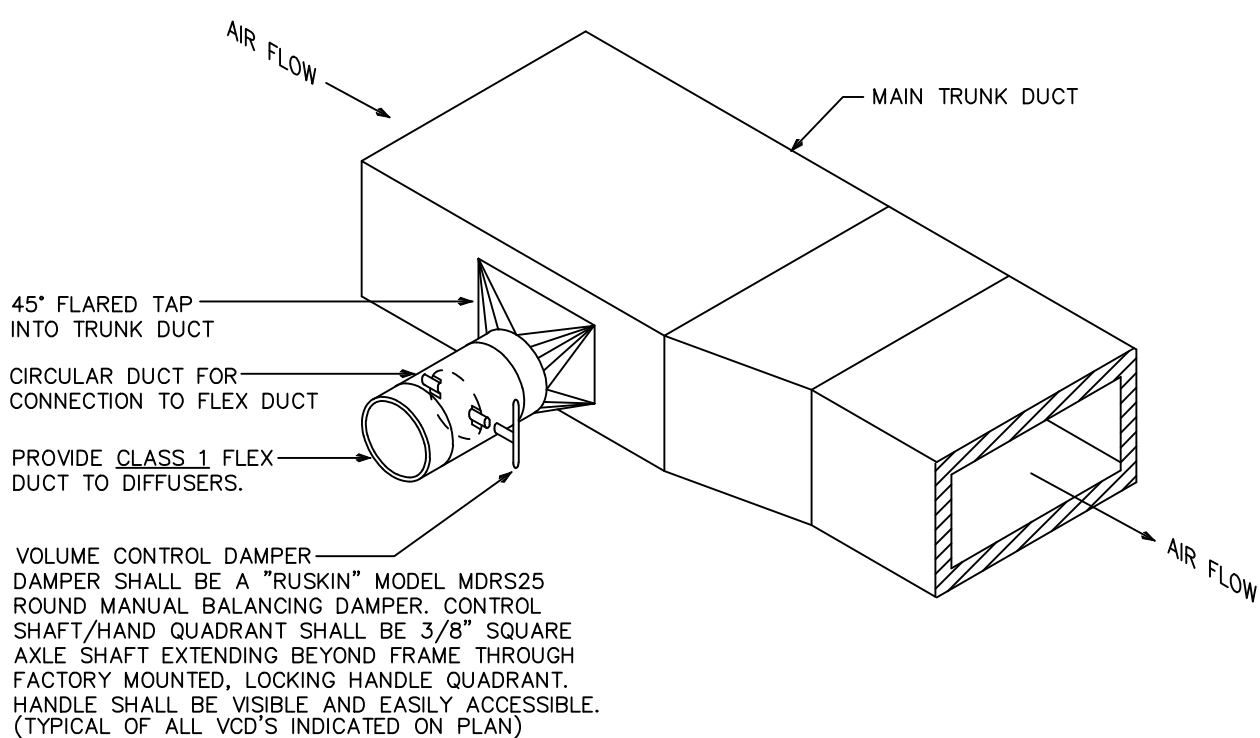
3 AHU MOUNTING DETAIL

NO SCALE



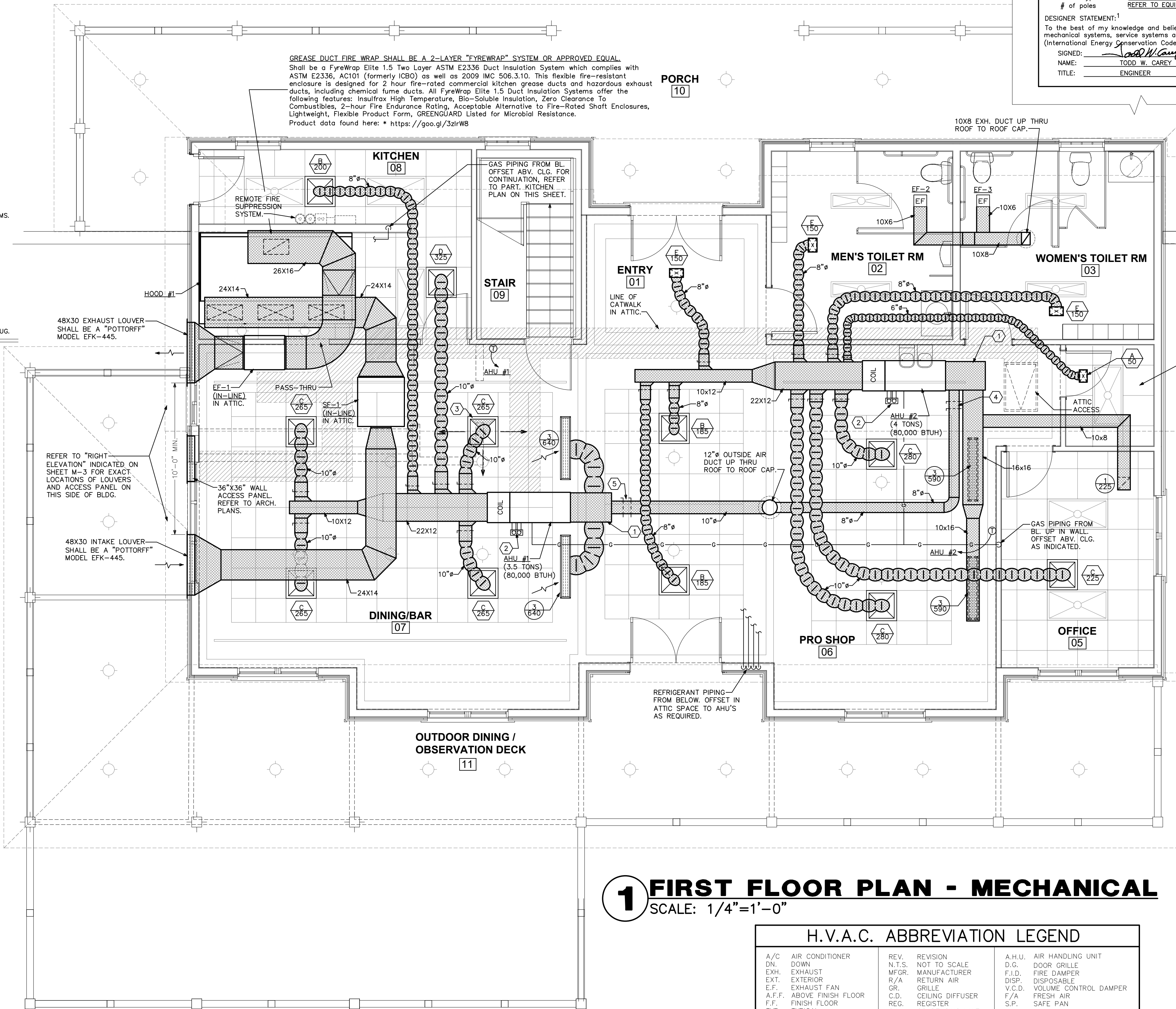
4 COND. UNIT MTG. DTL.

NO SCALE



5 BRANCH DUCT DETAIL

NO SCALE



1 FIRST FLOOR PLAN - MECHANICAL

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

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	F.I.D.	FIRE DAMPER
D.G.	DOOR GRILLE	DISP.	DISPOSABLE
V.C.D.	VOLUME CONTROL DAMPER	F/A	FRESH AIR
S.P.	SAFE PAN	S.P.	SAFE PAN
CD.	CONDENSATE DRAIN		

HVAC SYMBOLS LEGEND

1	THERMOSTAT, MTD +47" AFF
6P	EXHAUST FAN
+	SECTION "A"- "A"
B	REMOTE BULB SENSOR
D	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

BY REVISIONS DATE

HOOD INFORMATION - Job#3030203

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM							TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG.		
					TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	VEL.			S.P.	END TO END	ROW
1		5412 SMD-2-PSP-F	10' 0.00"	600 Deg.	2940	10"	28"	4"		2940	1512	-0.929"	2352	430 SS Where Exposed	ALONE	ALONE

HOOD INFORMATION

HOOD NO.	TAG	TYPE	FILTER(S)		EFFICIENCY @ 7 MICRONS	QTY.	LIGHT(S)		WIRE GUARD	LOCATION	SIZE	UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGHIT
			QTY.	LENGTH			TYPE	FIRE SYSTEM				ELECTRICAL	SWITCHES				
								TYPE						SIZE	MODEL #		
1		Captrate Solo Filter	7	20"	16"	85% See Filter Spec.	3	L55 Series E26	NO							YES	653 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 17.00" High Front, Right BACKSPLASH 122.00" High X 157.00" Long 430 SS Vertical LEFT SIDESPLASH 134.00" High X 72.00" Long 430 SS Vertical LEFT END STANDOFF(FIN/SLP) 1" Wide 54" Long Insulated INSULATION FOR TOP OF HOOD

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG.	DIA.	S.P.
1		Front	121"	18"	6"	MUA	12"	28"		784 0.229"
						MUA	12"	28"		784 0.229"
						MUA	12"	28"		784 0.229"

MUA FAN INFORMATION - Job#3030203

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1	SF-1	INLINE2-G12	G12	INLINE.2	2352	0.400	654	0.750	0.4340	3	208	2.5	268	7.5

FAN OPTIONS

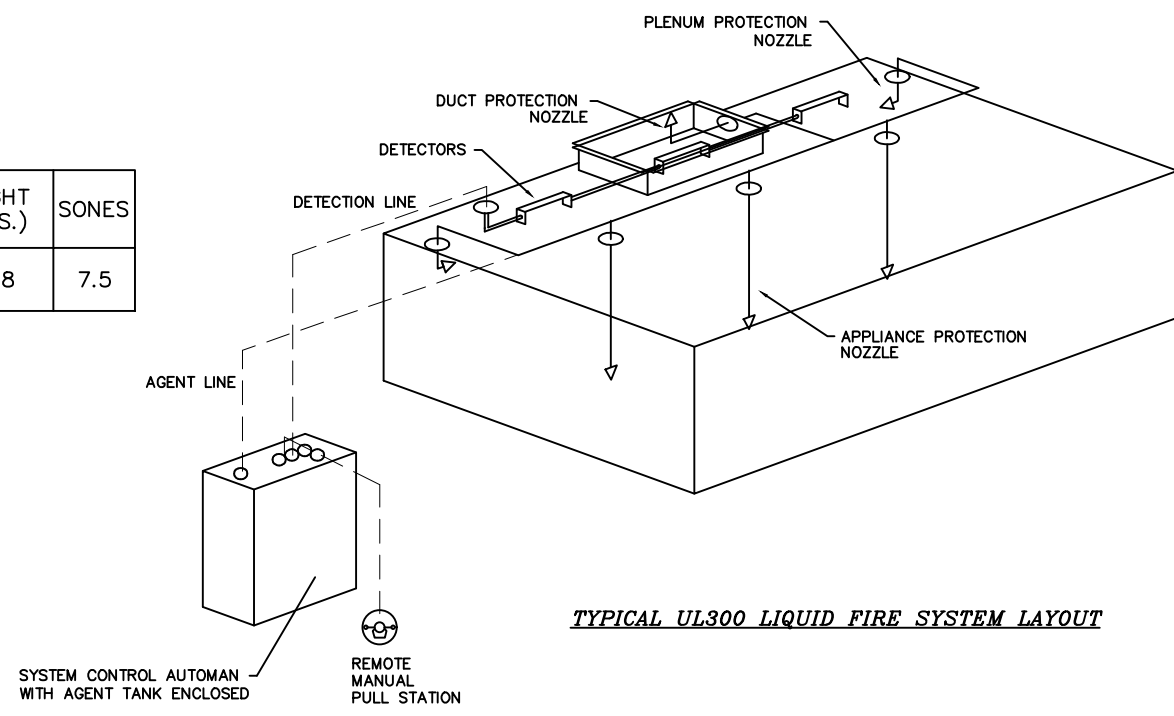
FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1	SF-1	1 - INLINE2 Indoor Hanging Option - Includes 2 HSA125 Hanging Spring Isolators per Uni-Strut

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER
1	SF-1				YES		

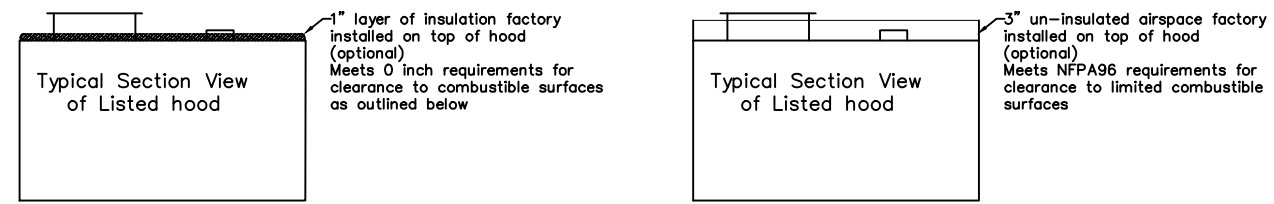
Fire System Information - Job#3030203

FIRE SYSTEM NO.	Tag	TYPE	SIZE	FLOW POINTS	INSTALLATION
1		Ansul R102	3.0/1.5	3	Wall Mount Left

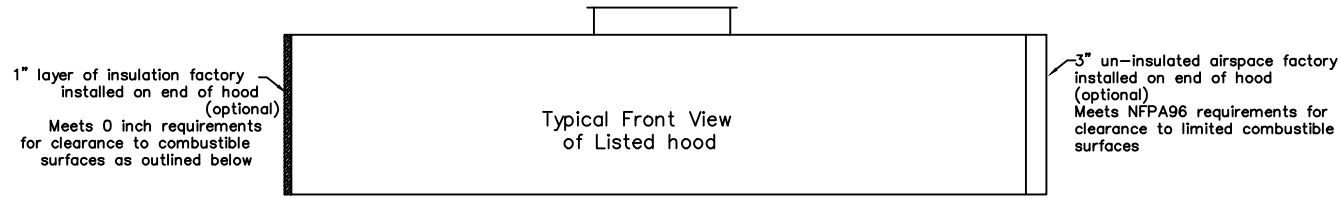


TYPICAL UL300 LIQUID FIRE SYSTEM LAYOUT

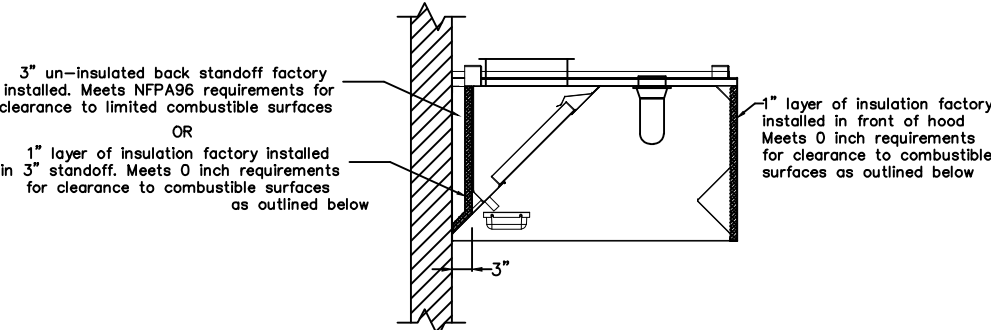
Top Clearance Reduction Options



End Clearance Reduction Options



Back & Front Clearance Reduction Options



Clearance Reduction Methods:

Clearance reduction methods have been evaluated and tested and are certified by ETL. The method of test was derived from UL 710 with temperature criteria taken from appropriate standards.

- The hood may be installed with a 0 inch clearance to combustible materials per ETL if constructed in one of the following methods:
 - 1 inch thick min. layer of insulation of type Owens Corning Type 475 or Johns Manville Type 475 or listed kitchen exhaust duct insulation.
 - 1 inch thick min. insulated backplash. Insulation of type listed above.
 - Back Return (BR) supply plenum with 1 inch thick min. insulation of type listed above.

To comply with the ETL certification, the cooking appliance must be located:

- At least 6 inches from the rear wall.
- At least 24 inches below the bottom edge of the hood.
- Cooking surface must not exceed temperature above 700°F.

The hood may be installed with a 3 inch clearance to limited combustible materials per NFPA96 if constructed in one of the following methods:

- 3 inch factory installed rear un-insulated standoff.
- 3 inch factory installed top wrapper or enclosure panel system.
- 3 inch factory installed end standoff.

OUTSIDE AIR CALCULATIONS

THE FOLLOWING IS BASED ON ASHRAE STANDARD 62.1-2012 FOR OUTSIDE AIR REQUIREMENTS									
UNIT LABEL	OCCUPANCY CATEGORY	AREA	ESTIMATED MAX. OCCUPANCY		OUTSIDE AIR REQUIRED (CFM)			TOTAL	EXHAUST AIRFLOW RATE CFM/SQ. FT. 0.7 CFM/SQ. FT.
		A _g	P _g	R _p	P _g × R _p	A _g × R _g	E _z		
AHU #1	KITCHEN	0,225	N/A	N/A	(N/A) + (N/A) = 0	PEOPLE AREA TOTAL			225 X 0.7 = 158
AHU #1	DINING	0,450	70 PEOPLE PER 1,000 S.F.	7.5 CFM PER PERSON	(32 X 7.5) + (0,450 X .18) = 321	PEOPLE AREA TOTAL			
					AHU #1 TOTAL = 321		1.0	321/1.0 = 321	
AHU #2	RETAIL	0,650	15 PEOPLE PER 1,000 S.F.	7.5 CFM PER PERSON	(10 X 7.5) + (0,650 X .12) = 153	PEOPLE AREA TOTAL			
AHU #2	OFFICE	0,150	05 PEOPLE PER 1,000 S.F.	5.0 CFM PER PERSON	(01 X 5.0) + (0,150 X .18) = 032	PEOPLE AREA TOTAL			
AHU #2	LOBBIES	0,100	10 PEOPLE PER 1,000 S.F.	5.0 CFM PER PERSON	(01 X 5.0) + (0,100 X .06) = 011	PEOPLE AREA TOTAL			
					AHU #2 TOTAL = 196		1.0	196/1.0 = 196	
A/C #3	STORAGE	0,225	N/A	N/A	(10 X 7.5) + (0,225 X .12) = 027	PEOPLE AREA TOTAL	1.0	027/1.0 = 027	

A_g — ZONE FLOOR AREA
P_g — ZONE POPULATION
R_p — PEOPLE OUTDOOR RATE
R_g — AREA OUTDOOR RATE
E_z — ZONE AIR DISTRIBUTION EFFECTIVENESS

FAN SCHEDULE

LABEL	TYPE OF UNIT - AREA SERVED	MANUFACTURER & MODEL NO.	CFM	SP	MOUNTING ARRANGEMENT	MOTOR H.P.	ENCLOSURE TYPE	RPM	VOLTAGE	NOTES
EF-1	BELT DRIVE FAN - EXHAUST HOOD	COOK 165QMX	2,940	1.5"	IN-LINE	2.0	OPEN DRIP PROOF	1,389	280V/3φ	1
EF-2,3	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z7	190	.125"	CEILING MOUNTED	68 WATTS	OPEN DRIP PROOF	1640	115V/1φ	1
EF-4	CABINET FAN - REFER TO PLANS	PENN ZEPHYR Z6	90	.125"	CEILING MOUNTED	50 WATTS	OPEN DRIP PROOF	1055	115V/1φ	1
EF-5	REFER TO PLANS, SHEET M-1.		-	-	-	-	-	-	-	-
SF-1	REFER TO SPECIFICATIONS AND DETAILS ON SHEET M-3.		-	-	-	-	-	-	-	-

NOTES: 1.) REFER TO ELECTRICAL PLANS FOR CONTROL.

SEALED COMBUSTION GAS FURNACE SCHEDULE

LABEL	MANUFACTURER & MODEL NO.	CFM	BTUH OUTPUT CAPACITY	BTUH INPUT CAPACITY	SEASONAL EFFICIENCY	MOTOR FLA	VENT CONN.	COMB. AIR INLET	MOTOR H.P.	RPM	VOLTAGE	M.O.C.P.	GAS CONNECTION	WEIGHT	NOTES
UH-1 & 2	REZNOR V3 SERIES MODEL UDAS-75 GAS UNIT HEATER	960	62,250	75,000	83%	3.3	4"	4"	.06 HP	1550	115V/1φ	15 AMPS	1/2"φ	72 lbs.	1,2,3

GENERAL NOTES:
* ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.

* CONTRACTOR MAY SUBSTITUTE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

PRODUCT DATA:
* http://www.rezspec.com/tiles/C-UH_vh11.pdf

GAS FURNACE W/SPLIT SYSTEM AIR CONDITIONING SYSTEM SCHEDULE

CONDENSING UNIT						EVAPORATOR COIL UNIT						GAS FURNACE									
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY	SENSIBLE CAPACITY	COMP. RLA	FAN FLA	VOLTAGE	MOCP	EER/SEER	MANUFACTURER & MODEL NO.	AHU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CFM	OUTSIDE AIR	E.S.P.	BLOWER SPEED	FAN HP	VOLTAGE	INPUT BTUH	OUTPUT BTUH	FLUE SIZE	NOTES
CU #1	CARRIER 24AHA448A005	45,190	33,990	13.7	1.20	208V/3φ	30A	14.0	CNPHP4821ALA	AHU #1	CARRIER 59SP5A080E21--20	1,600	325	.30"	LOW	1.0	120V/1φ	80,000	78,000	3"	1 THRU 4
CU #2	CARRIER 24AHA448A005	45,190	33,990	13.7	1.20	208V/3φ	30A	14.0	CNPHP4821ALA	AHU #2	CARRIER 59SP5A080E21--20	1,600	325	.30"	HIGH	1.0	120V/1φ	80,000	78,000	3"	1 THRU 4

GENERAL NOTES:
* ALL RATINGS ARE AT ARI ENTERING CONDITIONS UNLESS OTHERWISE NOTED.

* PROVIDE VIBRATION ISOLATION FOR UNITS.

* EXTERNAL STATIC PRESSURE DOES NOT INCLUDE COIL OR FILTER PRESSURE DROP.

* CONTRACTOR MAY SUBSTITUTE MANUFACTURER FOR APPROVED EQUAL. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ANY CLEARANCE REQUIREMENTS ARE MET FOR ANY SUBSTITUTIONS.

ABBREVIATION LEGEND:
O/A — OUTSIDE AIR
HP — HORSE POWER
FLA — FULL LOAD AMPS
RLA — RUNNING LOAD AMPS
FLA — FULL LOAD AMPS

MOCP — MAX. OVERCURRENT PROTECTION (DUAL ELEMENT TYPE FUSE)
E.S.P. — EXTERNAL STATIC PRESSURE
EER — ENERGY EFFICIENCY RATIO
SEER — SEASONAL ENERGY EFF. RATIO

SPECIFIC NOTES:
1) SIZE AND RUN REFRIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2) INSULATE REFRIGERANT SUCTION LINE WITH 2/4" ARMAFLEX OR APPROVED EQUAL.
3) PROVIDE 5 YEAR WARRANTY ON COMPRESSOR AND 1 YEAR WARRANTY ON ALL PARTS AND LABOR.
4) FURNACE SHALL BE PROVIDED WITH CONCENTRIC VENT/INTAKE AIR ROOF TERMINATION KIT.

AIR COOLED AIR CONDITIONING UNIT SCHEDULE

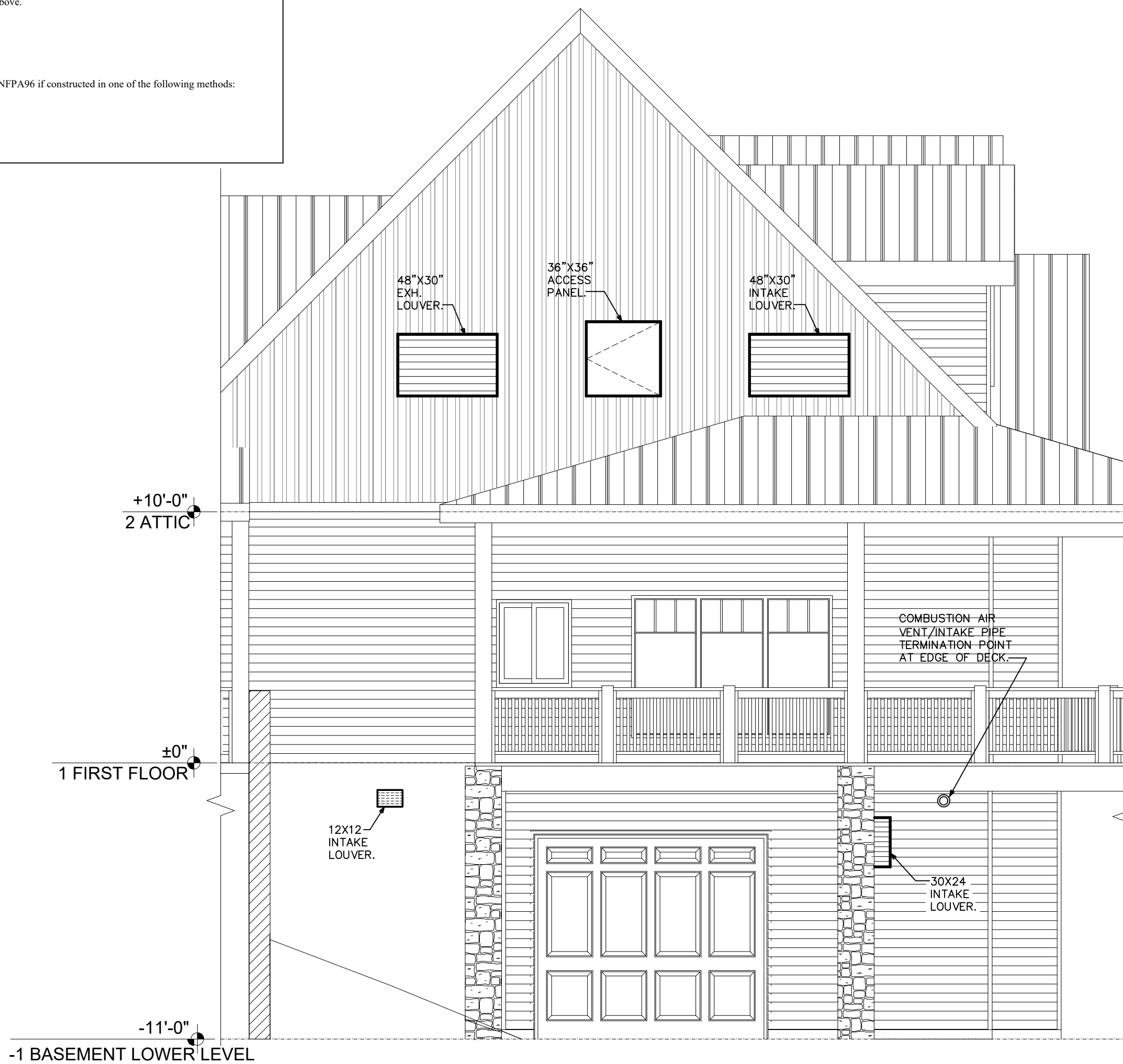
CONDENSING UNIT						INDOOR UNIT					
CU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CAPACITY COOLING	TOTAL CAPACITY HEATING	MCA	VOLTAGE	MOCP	SEER	WEIGHT	AHU LABEL(S)	MANUFACTURER & MODEL NO.	TOTAL CFM
CU #3	MITSUBISHI SUZ-KA12NA	11,100	13,600	12A	208V/1φ	15A	15.4	77 lbs.	A/C #3	MITSUBISHI SLZ-KA12NA	280 - 390

SPECIFIC NOTES:
1) SIZE AND RUN REFRIGERANT PIPING AS PER MANUFACTURERS PUBLISHED RECOMMENDATIONS.
2) INSULATE REFRIGERANT SUCTION LINE WITH 3/4" ARMAFLEX OR APPROVED EQUAL.
3) POWER SUPPLY IS TO OUTDOOR UNIT, INTERCONNECTING WIRING FROM OUTDOOR UNIT TO INDOOR UNIT. REFER TO ELECTRICAL PLANS FOR CONTROL.

PRODUCT DATA: <https://goo.g/ZCBjke>

EXHAUST HOOD NOTES

- EXHAUST HOODS SHALL BE CONSTRUCTED OF 18 GAUGE 430 STAINLESS STEEL FOR ALL SURFACES EXPOSED TO THE AIRSTREAM AND 18 GAUGE GALVANIZED STEEL FOR OTHER SURFACES. ALL SEAMS AND JOINTS SHALL HAVE A LIQUID TIGHT U.L. APPROVED CONTINUOUS EXTERNAL WELD.
- ENTIRE SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH NATIONAL SANITATION FOUNDATION STANDARDS, NFPA-96, NFPA-17-A, AND ALL GOVERNING CODES.
- EXHAUST HOODS SHALL BE PROVIDED WITH A ANSUL R-102 AUTOMATIC FIRE EXTINGUISHING SYSTEM FOR PROTECTION OF THE EXHAUST HOOD, PLENUM, GREASE FILTERS, EXHAUST DUCT AND COOKING EQUIPMENT. THE SYSTEM SHALL EMPLOY A LIQUID CHEMICAL EXTINGUISHMENT. THE SYSTEM SHALL BE ARRANGED TO SHUT OFF THE SOURCE OF COOKING HEAT AUTOMATICALLY UPON SYSTEMS OPERATION. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-96, NFPA-17-A AND ACCORDING TO MANUFACTURERS PRINTED INSTALLATION PROCEDURES. EACH HOOD SHALL HAVE A SEPARATE FIRE EXTINGUISHING SYSTEM WHICH WILL OPERATE EFFECTIVELY WITH OR WITHOUT FANS OPERATING.
- THE INSTALLER OF THE EXHAUST HOOD AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BRIEF OWNER IN ITS OPERATION.
- EXHAUST AND SUPPLY FANS OF EACH HOOD SHALL BE INTERLOCKED. PROVIDE ONE LIGHT SWITCH AND ONE FAN SWITCH ON THE FACE OF EACH GREASE HOOD.
- GREASE FILTERS TO BE THE GREASE ELIMINATOR SELF BALANCING TYPE U.L. APPROVED.
- EXHAUST HOOD DUCTWORK OFFSETS TO GREASE EXHAUST FANS FROM HOOD LOCATION SHALL BE MADE WITH (2) - 45° ELBOWS. TRANSITION TO FULL SIZE OF FAN CONNECTION AT CURB.
- U.L. RANGE HOOD: MATERIAL: 18 GAUGE STAINLESS STEEL CONSTRUCTION ON EXPOSED SURFACES 18 GA. GALV. ON EXH. PLENUM ALL CONTINUOUS EXTERNAL LIQUID TIGHT WELDS, POLISHED. FILTERS UL CLASSIFIED BAFFLE TYPE. SET IN HOOD @ 45 DEGREE ANGLE. INCANDESCENT LIGHT FIXTURES UL LISTED FOR USE IN COMMERCIAL COOKING HOODS. GREASE TRAY BELOW FILTERS WITH REMOVE-ABLE GREASE CONTAINER. LIQUID VOLUME LESS THAN 1 QUART. ALL IN COMPLIANCE WITH NFPA #96 AND LOCAL BUILDING CODES.
- RANGE HOOD EXHAUST DUCTS MATERIAL: 16 GAUGE GALVANIZED STEEL CONSTRUCTION, ALL CONTINUOUS LIQUID TIGHT EXTERNAL WELDS. DUCTS TO SLOPE TOWARD HOOD. CLEANING ACCESS AT CHANGE IN DIRECTION OF DUCT RUN EXCEPT AT HOOD COLLAR.
- RANGE HOOD SUPPLY DUCTS MATERIAL: 22 GALVANIZED SHEET METAL. GAUGES, HANGING AND REINFORCING PER SMACNA STANDARDS.



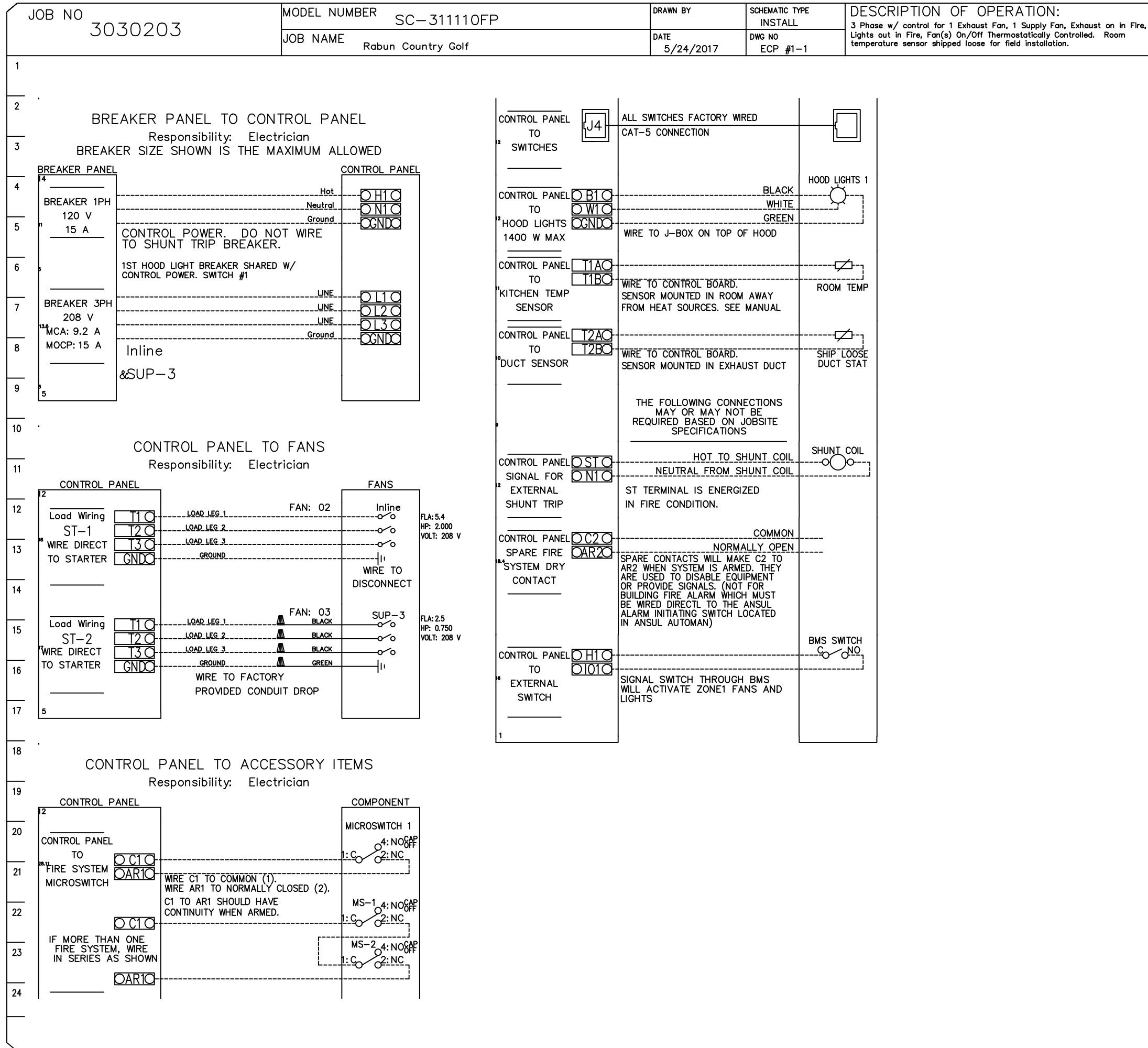
3 RIGHT ELEVATION NO SCALE

BY REVISIONS DATE

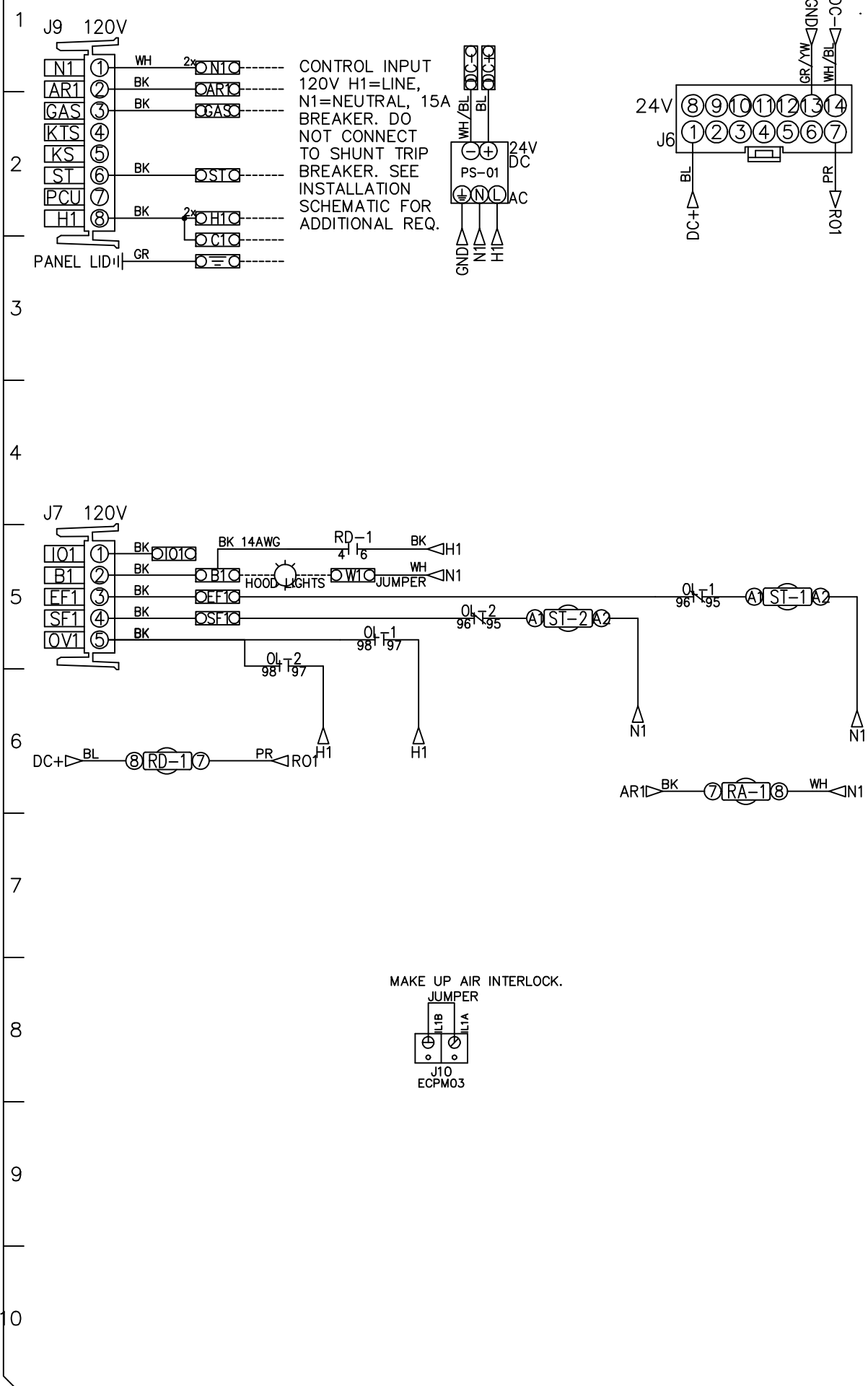
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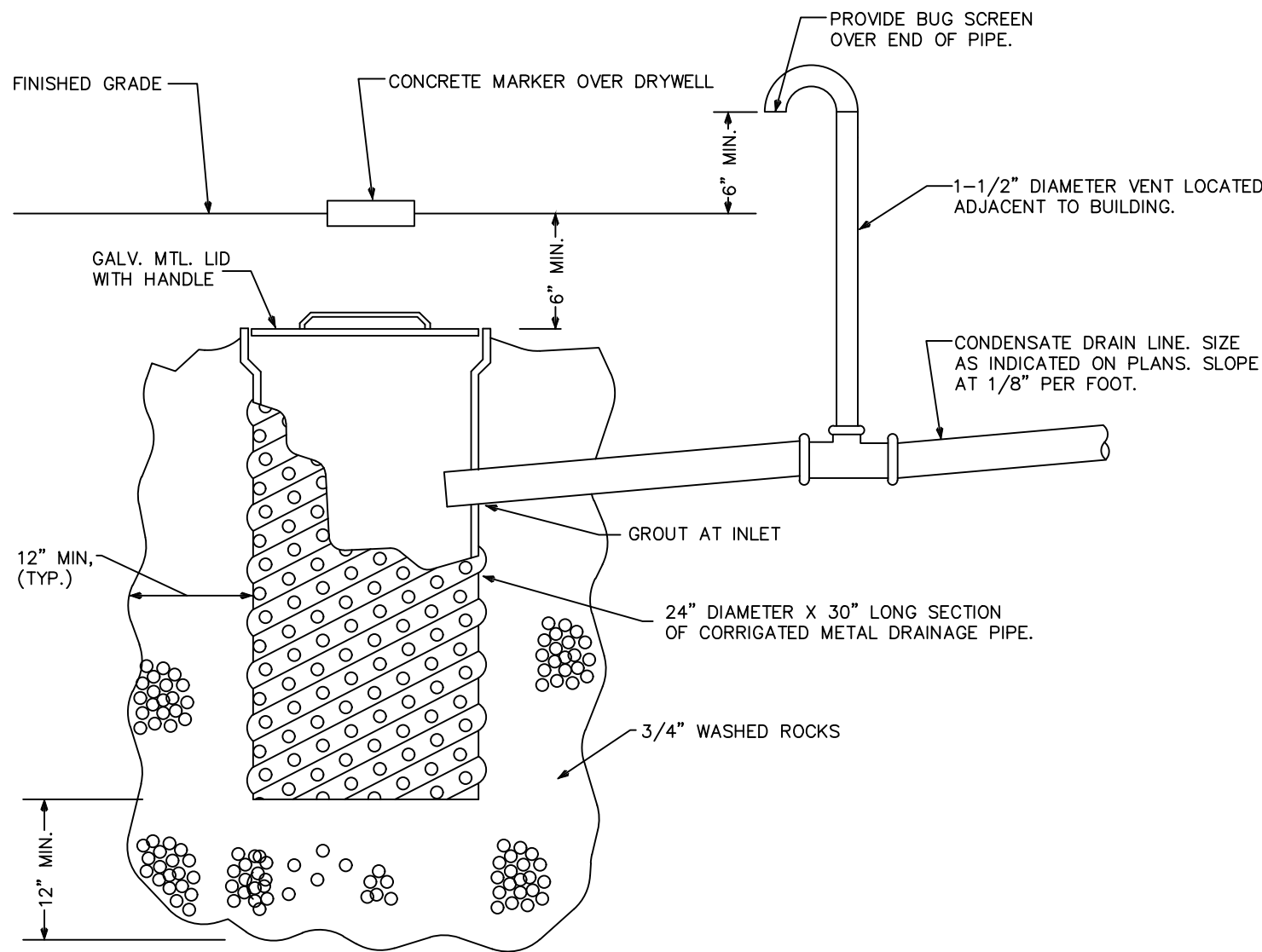
KITCHEN EXHAUST HOOD ELECTRICAL PACKAGES – Job#3030203

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED			
				LOCATION	QUANTITY		TYPE	Φ	H.P.	VOLT FLA
1		SC-311110FP	Wall Mount In SS Box	05 – SS Wall Mount Box	1 Light 1 Fan	Smart Controls Thermostatic Control	Exhaust	3	2.000	208 5.4
							Supply	3	0.750	208 2.5



UNLESS SPECIFIED OTHERWISE, ALL FACTORY AC WIRING 16 AWG. ALL FACTORY DC WIRING 18 AWG.





2 DRYWELL DETAIL

NO SCALE

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

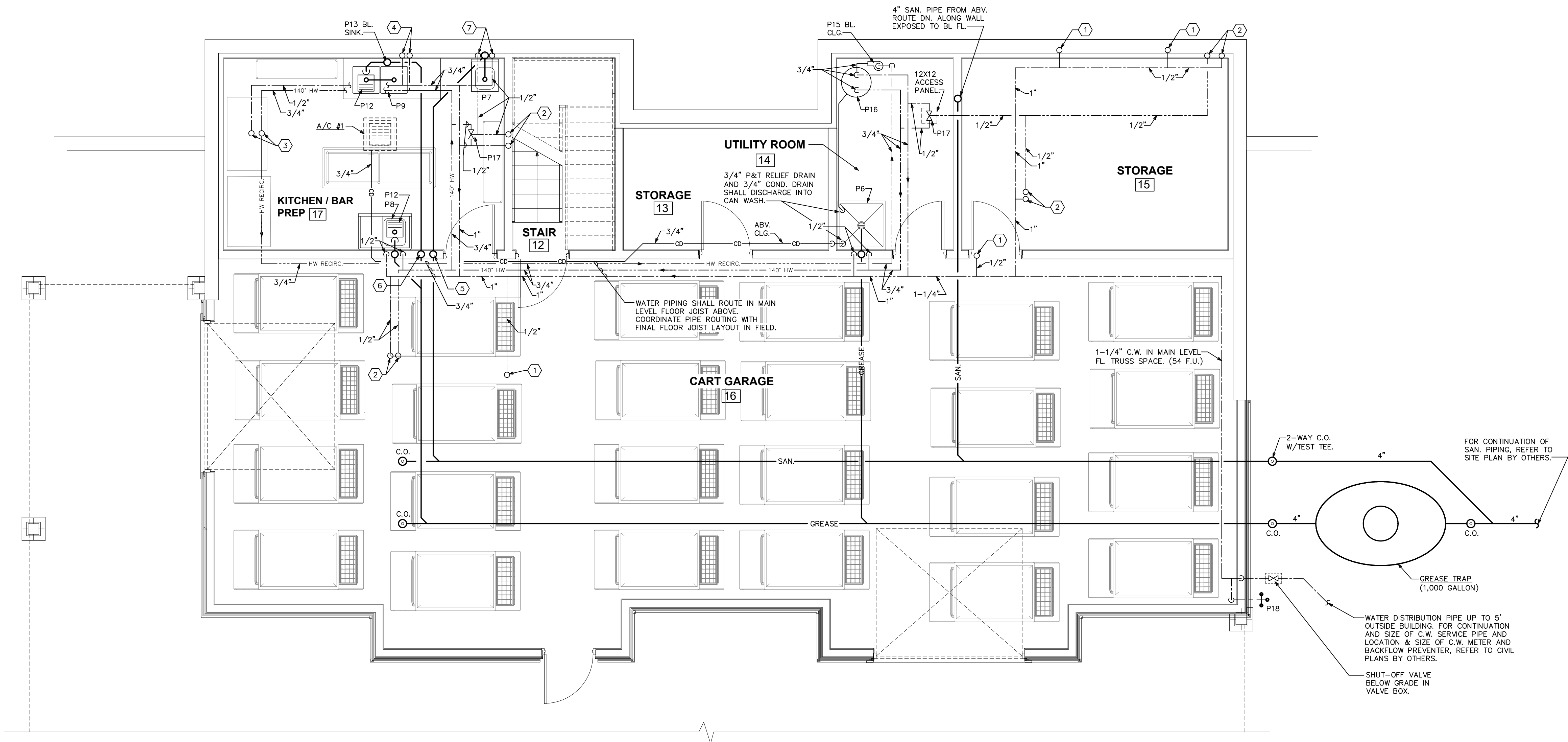
PLUMBING ABBREVIATION LEGEND					
DN.	DOWN	C.C.	CENTER TO CENTER	F.U.	FIXTURE UNITS
EXT.	EXTERIOR	N.T.S.	NOT TO SCALE	H.B.	HOSE BIBBS
F.D.	FLOOR DRAIN	MFR.	MANUFACTURER	C.O.	CLEANOUT
F.F.	FINISH FLOOR	S.O.V.	SHUT OFF VALVE	E.W.H.	ELECTRIC WATER HEATER
A.F.F.	ABOVE FINISH FLOOR	W.C.	WATER CLOSET	JAN.SK.	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.	URINAL		

SPECIFIC PLUMBING NOTES	
1	1/2" C.W. UP TO FLOOR ABOVE.
2	1/2" C.W. AND 1/2" 110" H.W. UP TO FLOOR ABOVE.
3	1/2" C.W. AND 1/2" 140" H.W. UP TO FLOOR ABOVE.
4	1/2" C.W. AND 1/2" 140" H.W. DN. IN WALL AND UP TO FLOOR ABOVE.
5	4" SAN. FROM ABV. DN. IN WALL TO BL. FL.
6	3" GREASE WASTE FROM ABV. DN. IN WALL TO BL. FL.
7	1/2" C.W. DN. IN WALL AND UP TO FLOOR ABOVE, 1/2" 110" H.W. DN. IN WALL.

Storage Tank Water Heater Sizing Calculator				
Facility Name:	RABUN COUNTY GOLF CLUBHOUSE			
Address:	1322 OLD 441 SOUTH, CLAYTON, GEORGIA 30523			
EQUIPMENT			GPH CALCULATED	
Enter the description, number and size of sink compartments for each sink below	Description	Number of compartments	(inches) Length Width Depth	Gallons Per Hour (GPH)
	Largest Sink #1	3 Comp. Sink	3 20 20 16	63
Sinks are calculated at 75% capacity				Total 63
Enter type of prep sink and number of sink compartments for each sink below	Type of prep sink (vegetable, meat, seafood)	Number of compartments	Gallons Per Hour (GPH)	
	Prep sink #1	Prep Sink	1	5
Prep sinks are calculated at 5 gallons per compartment	Prep sink #2	Prep Sink	2	10
	Total			15
Enter the quantity of equipment below	Quantity	Gallons Per Hour (GPH)		
	Hand sinks	3	15	
Enter a description and estimated gallon per hour (GPH) usage for other equipment below	Can wash	1	10	
	Mop sink	1	5	
Other Equipment (2) Lavatory				4
Hand sinks and mop sinks are calculated at 5 GPH each, can washes at 10 GPH each. Hose reels are calculated at 5 GPH, clothes washers at 15 GPH, other equipment at the usage entered				Total 34
Enter the make, model and Final Rinse Usage in gallons per hour (GPH) for dishmachines	Make	Model	Final Rinse Usage (GPH) Found in "Dishmachine Specs" sheet below or on manufacturer's spec sheet	Gallons Per Hour (GPH)
	Dishmachine #1			0
Enter the quantity of pre-rinse unit	Pre-rinse	Quantity	Gallons Per Hour (GPH)	
	Dishmachines are calculated at 70% of the final rinse usage specified by the manufacturer. Pre-rinse are calculated at 45 GPH		0	
Recovery Rate Needed (GPH):				112
Water Heater Input (BTU or kW) Needed:				
Gas Water Heater		Electric Water Heater		
98,000 BTU at 80°F rise		22 kW at 80°F rise		
110,000 BTU at 90°F rise		24 kW at 90°F rise		
122,000 BTU at 100°F rise		27 kW at 100°F rise		

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 MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.LUBRIZOL.COM. ALL ABOVE SLAB WATER PIPING SHALL BE "FLOWGUARD GOLD CPVC" INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS FOUND HERE: WWW.FLOWGUARDGOLD.COM. ALL WATER PIPING AS SPECIFIED OR APPROVED EQUAL. ALL 2" WATER PIPING SHALL BE TYPE "L" COPPER AND TYPE "K" COPPER FOR 2 1/2" AND LARGER. (OR APPROVED EQUAL)
- SOIL, WASTES AND VENT PIPING SHALL BE PVC #40 DWV. 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.



1 BASEMENT LOWER LEVEL PLAN - PLUMBING

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

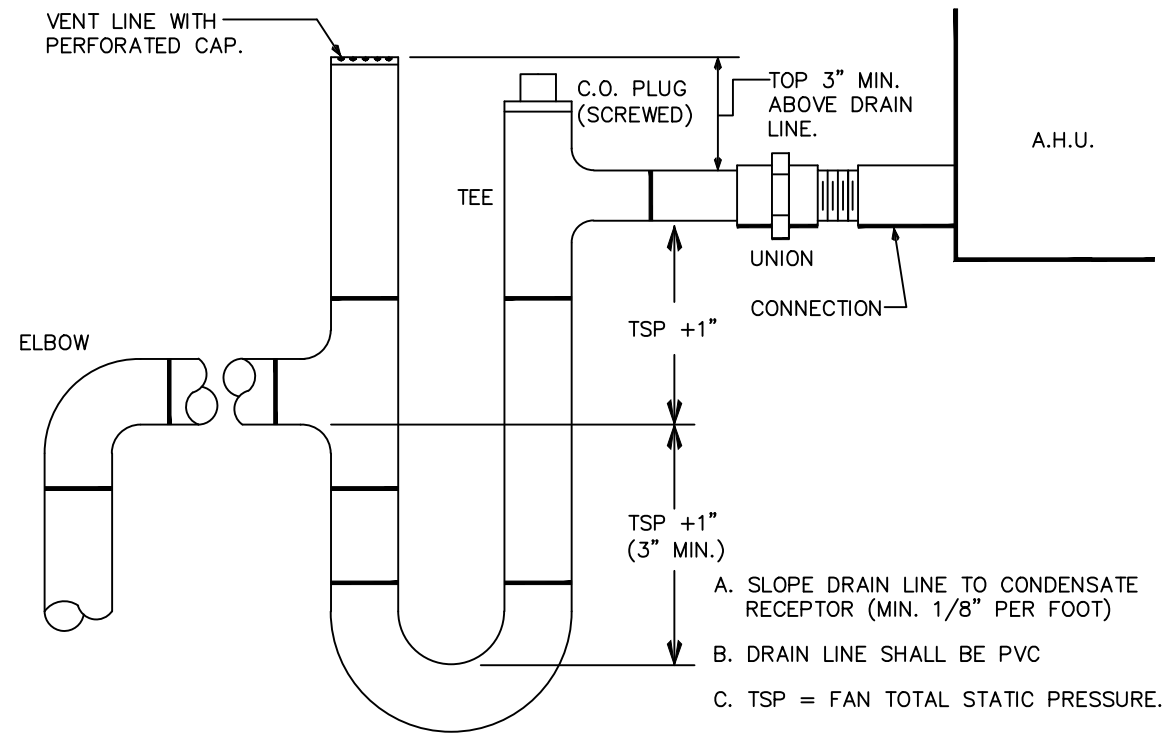
BY	REVISIONS	DATE

P-1 (FLOOR MOUNTED FLUSH TANK WATER CLOSET) SHALL BE AN AMERICAN STANDARD MODEL 2750CA.001 CADET 3 ELONGATED 1.6 GPF TOILET, VITREOUS CHINA, CADET FLUSHING SYSTEM, TANK TYPE: FLOOR MOUNTED, FLOOR OUTLET, WITH AMERICAN STANDARD OPEN FRONT HEAVY-DUTY COMMERCIAL SEAT MODEL 5901.100. WATER CLOSET: https://goo.gl/z2t6Aa TOILET SEAT: https://goo.gl/i20eyk	
P-2 (HANDICAPPED FLOOR MOUNTED FLUSH TANK WATER CLOSET) SHALL BE AN AMERICAN STANDARD MODEL 2750A.001 CADET 3 RIGHT HEIGHT ELONGATED 1.6 GPF TOILET, VITREOUS CHINA, CADET FLUSHING SYSTEM, TANK TYPE: FLOOR MOUNTED, FLOOR OUTLET, WITH AMERICAN STANDARD OPEN FRONT HEAVY-DUTY COMMERCIAL SEAT MODEL 5901.100. * TOILET LEVER HANDLE SHALL BE LOCATED ON ACCESSIBLE SIDE OF TOILET. WATER CLOSET: https://goo.gl/kP4SiI TOILET SEAT: https://goo.gl/i20eyk	
P-3 (HANDICAPPED URINAL AND FLUSH VALVE) SHALL BE AN AMERICAN STANDARD WASHBROOK MODEL 6501.511 3/4" TOP SPUD. 0.125 TO 1.0 GPF, URINAL INCLUDES AMERICAN STANDARD MANUAL FLUSH VALVE MODEL 6590.001 3/4" TOP SPUD. URINAL & VALVE: https://goo.gl/y5tAfI	
P-4 (HANDICAPPED COUNTER TOP LAVATORY) SHALL BE AN AMERICAN STANDARD MODEL RONALYN MODEL 0491.019 VITREOUS CHINA SELF-RIMMING. FAUCET SHALL BE A "CHICAGO" MODEL 3333-665PRABCP METERING FAUCET. UNIT IS ADA COMPLIANT, ADJUSTABLE RUN TIME FROM 2 TO 15 SECONDS, OPENS WITH PUSH, 0.20 MAX GALLON/CYCLE. WATER PIPING AND P-TRAP SHALL BE COVERED WITH AN UNDER-SINK PROTECTIVE PIPE COVER KIT BY TRUEBRO (TRUEBRO.COM) OR APPROVED EQUAL. PROVIDE MIXING VALVE BELOW LAVATORY SET TO 101° H.W. LAVATORY: https://goo.gl/TlWwJ3 FAUCET: https://goo.gl/69Dj0w	
P-5 (WALL MOUNT JANITORS SINK) SHALL BE AN "AMERICAN STANDARD" LAKEWELL SERVICE SINK MODEL 7692.008, ENAMELED CAST IRON AND RIN GUARD. FAUCET SHALL BE AN "AMERICAN STANDARD" MODEL 8351.076 EXPOSED YOKE WALL-MOUNT UTILITY FAUCET W/VACUUM BREAKER SINK: https://goo.gl/79uJ3i FAUCET: https://goo.gl/Tlmzmq	
P-6 (FLOOR MOUNTED INTERIOR CANWASH/MOP RECEPTOR) SHALL BE A FLORESTONE #50 36X36X6" MOLDED MOP BASIN WITH 3" OUTLET. PROVIDE WITH MR-371 THREADED FAUCET WITH WALL BRACE, PAUL HOOK AND APPROVED VACUUM BREAKER, MR-370 HOSE & HOSE BRACKET, MR-372 MOP HANGER, MR-373 BUMBER GUARDS AND MR-377 STAINLESS STEEL WALL GUARD. SINK: https://goo.gl/NNh75Y FAUCET/ACCESSORIES: https://goo.gl/wcWm7I	
P-7 (STAINLESS STEEL HAND SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCH./OWNER PRIOR TO BID.	
P-8 (STAINLESS STEEL 1 COMPARTMENT PREP SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCH./OWNER PRIOR TO BID.	
P-9 (STAINLESS STEEL 2 COMPARTMENT PREP SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCH./OWNER PRIOR TO BID.	
P-10 (STAINLESS STEEL 3 COMPARTMENT SINK W/FAUCET) COORDINATE FINAL SPECIFICATIONS WITH ARCH./OWNER PRIOR TO BID.	
P-11 (FLOOR DRAIN WITH TRAP PRIMER) SHALL BE A JOSAM 390033-A-50 SERIES COATED CAST IRON FLOOR DRAIN WITH 1/2" TRAP PRIMER, 3/4" PIPE CONNECTION, 6" DRAIN TOP, STRAINER TYPE 6A, TWO-PIECE BODY WITH DOUBLE DRAINAGE FLANGE, W.E.O.C INVERTIBLE NON-PUNCTURING FLASHING COLLAR, WEEPHOLES, BOTTOM OUTLET AND ADJUSTABLE SATIN NIKALOY ROUND SUPER-FLO STRAINER. DRAIN: https://goo.gl/7055ly	
P-12 (FLOOR SINK W/SEDIMENT BUCKET) SHALL BE A JOSAM 493402-3-31 SERIES SQUARE CAST IRON 8" DEEP SUPER-FLO-SEPTOR FLOOR SINK WITH PORC-COATED INTERIOR, DOUBLE DRAINAGE FLANGE WITH WEEPHOLES, BOTTOM OUTLET, ALUMINUM INTERNAL DOME STRAINER, AND CAST IRON, NON-TRAFFIC, PORC-COATED, ANTI-TILTING GRADE, WITH HALF STRAINER AND ALUMINUM SEDIMENT BUCKET. DRAIN: https://goo.gl/7CUCVc	
P-13 (2" STUDOR VENT – AIR ADMITTANCE VALVE) SHALL BE A IPS CORPORATION "STUDOR MINI-VENT". 2" VENT. STUDOR VENT: https://goo.gl/vh9rJP	
P-14 (HANDICAPPED HI/O ELECTRIC WATER COOLER COMB. W/BOTTLE FILLER & WALL BRACKET) SHALL BE AN "QASIS" MODEL POFNEBSL, SPLIT LEVEL TWO STATION WATER COOLER WITH BARRIER FREE ACCESS, UNIVERSAL BARRIER-FREE VERSACOOLER II WITH VERSAFILTER & HANDS FREE VERSAFILTER. 8.0 GPM, 4.4 FLA, 115V/1ø WATER COOLER: https://goo.gl/0CdWmf	
P-15 (HOT WATER CIRCULATOR PUMP W/REMOTE TIMER) SHALL BE A "GRUNDFOSS" MODEL #007-F5, GRANGER ITEM #4P090, INLINE CIRCULATOR PUMP, CLOSED LOOP SYSTEM, 1/25 HP, 1 PHASE, VOLTAGE 115, 3/4" INLET/OUTLET, WET ROTOR, MAINTENANCE FREE. TIMER SHALL BE A "INTERMATIC" MODEL #ML7E02UTZB-120, GANGER ITEM #20XRE6, 120V/1ø, 21 AMPS, MAX. TIME SETTING: 23 HR. 45 MIN. RECIRCULATING PUMP: https://goo.gl/eyrJUI TIMER: https://goo.gl/6T2Jv2	
P-16 (GAS WATER HEATER – DIRECT VENT – SEALED COMBUSTION) SHALL BE A STATE "ULTRA FORCE" MODEL SUF100 150E(A) GAS FIRED COMMERCIAL WATER HEATER, 150,000 BTU INPUT TO PRODUCE 178 GALLONS PER HOUR OF HOT WATER AT 100 DEGREE REE, INSULATED CLASSING 100 GALLON STORAGE TANK. WATER HEATER SHALL MEET OR EXCEED ALL APPLICABLE SECTIONS OF ASHRAE SECTIONS 90-80A AND NAECA REQUIREMENTS FOR ENERGY CONSERVATION. * HEATER SHALL BE PROVIDED WITH OPTIONAL CONCENTRIC VENT KIT. WATER HEATER: https://goo.gl/cgfVd3	
P-17 (1/2" MIXING VALVE) P-172 MIXING VALVE SHALL BE A "WATTS" MODEL LF1170-PEX-M2 SET AT 110°. Lead Free* C912 BRONZE SILICON ALLOY BODY construction * http://media.wattswater.com/ES-LF1170-LF1170.pdf MIXING VALVE: https://goo.gl/gi08b7	
P-18 (HOSE BIBB – NON-FREEZE HYDRANT WITH LOOK COVER) SHALL BE A "ZURN" Z1300 ENCASED ECOCOLORT, ANTI-SIPHON, AUTOMATIC DRAINING, NON-FREEZE WALL HYDRANT COMPLETE WITH INTEGRAL BACKFLOW PREVENTOR, COPPER CASING, BRONZE INTERIOR PARTS, NON-COMBUSTION 3/4" MALE PIPE, THREAD INLET, WET CONNECTION STANDARD, REGULARLY FLUSHED WITH 3/4" HOSE CONNECTION, CHROME-PLATED ROUGH CAST BRONZE BOX AND HINGED COVER, INCLUDES OPERATING KEY. HOSE BIBB: https://goo.gl/CW0Jux	
NOTES: 1.) ALL PLUMBING FIXTURES SHALL BE AS SPECIFIED OR APPROVED EQUAL. 2.) PROVIDE ANGLE STOPS ON ALL WATER SERVICE LINES TO FIXTURES FOR INDIVIDUAL SHUT-OFF.	



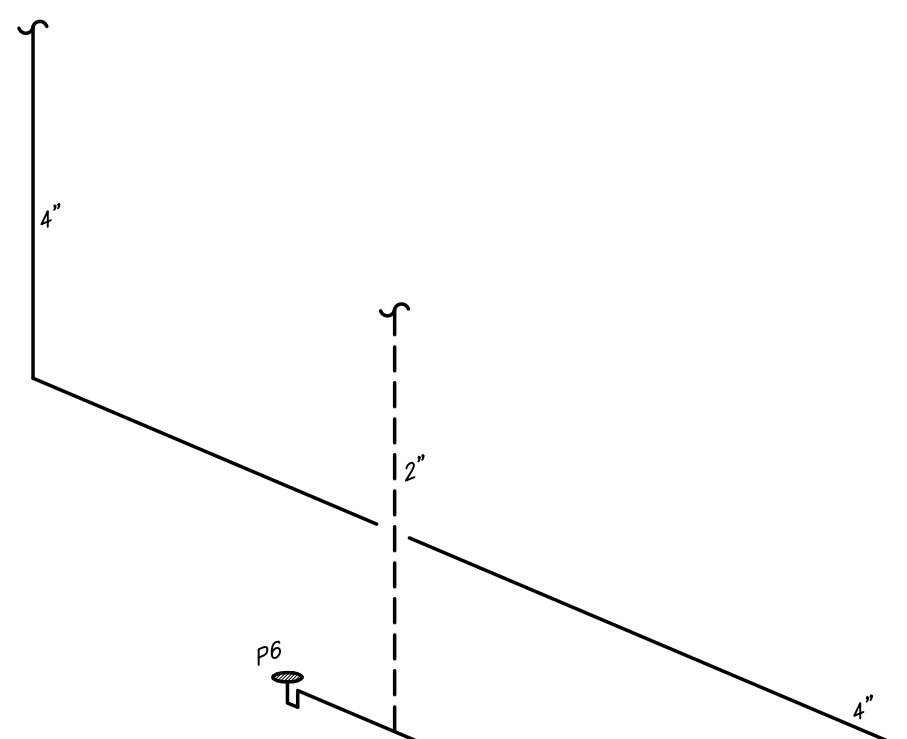
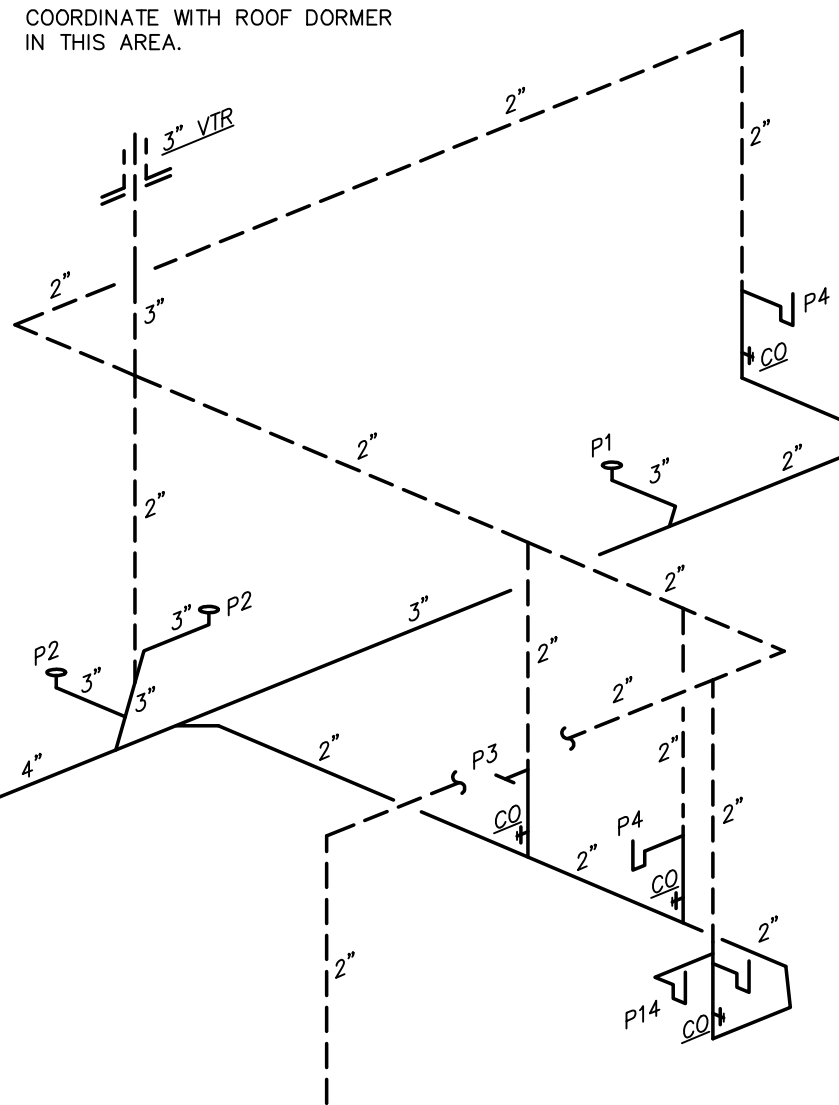
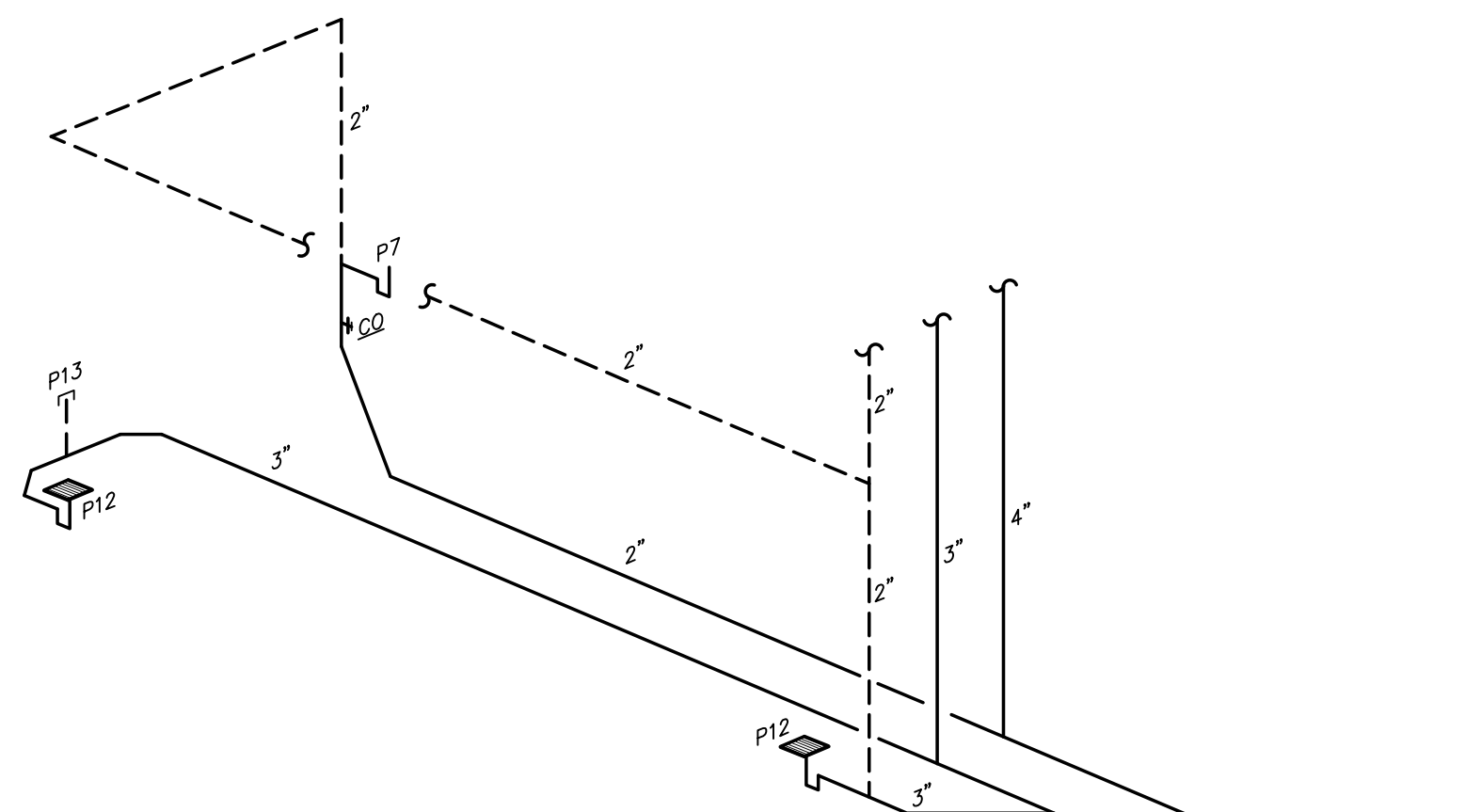
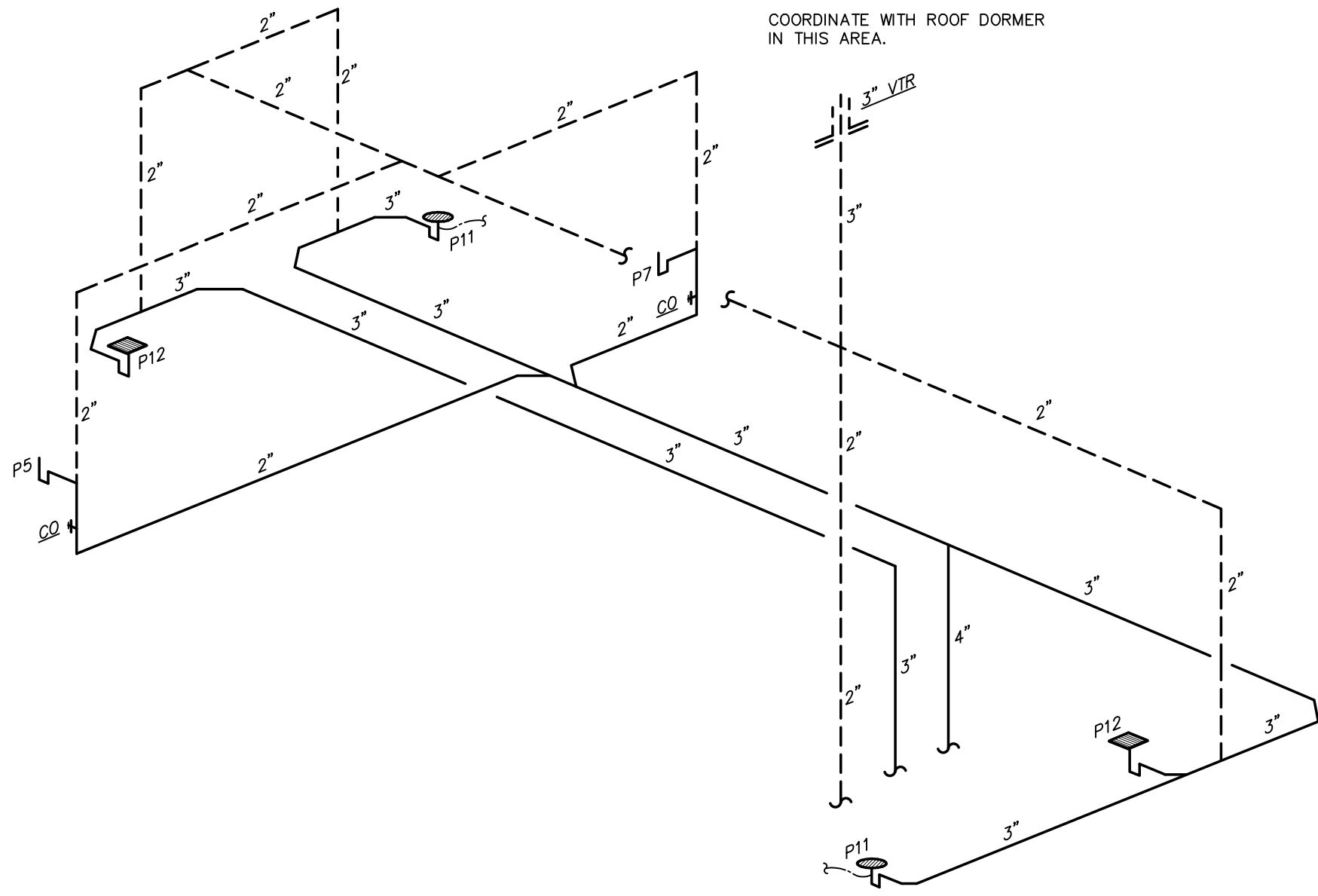
- ① 1/2" C.W. AND 1/2" 110' H.W. FROM BELOW.
- ② 1/2" C.W. AND 1/2" 140' H.W. FROM BELOW.
- ③ 1/2" C.W. FROM BELOW.
- ④ 3/4" C.W. AND 1/2" 110' H.W. FROM BELOW.





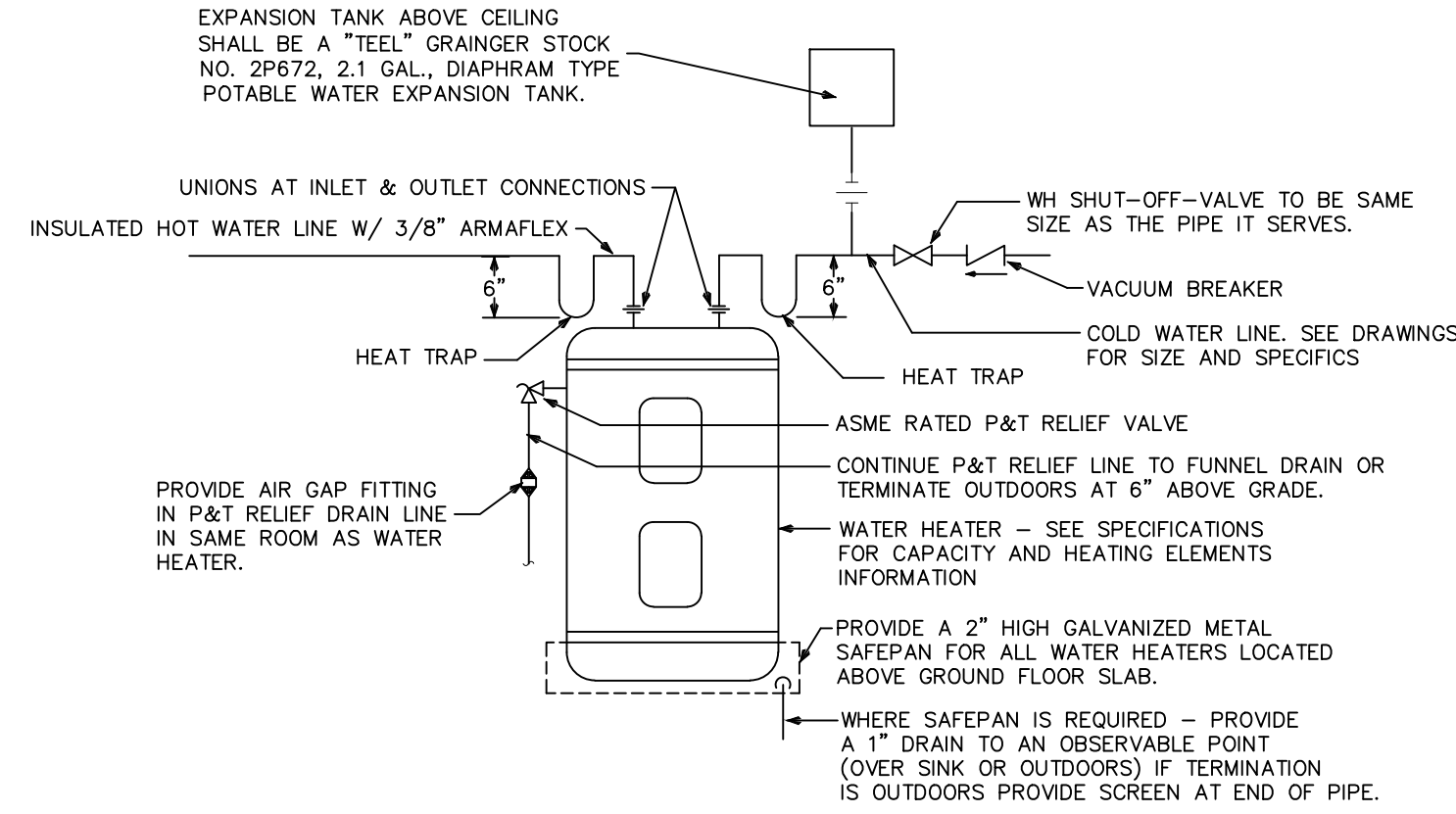
4 CONDENSATE P-TRAP DETAIL

NOT TO SCALE



1 SANITARY ISOMETRIC

NO SCALE

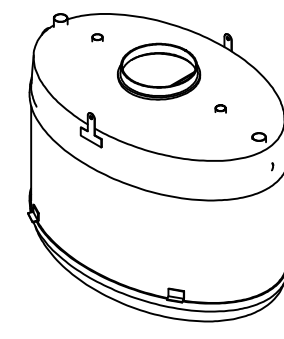


3 WATER HEATER DETAIL

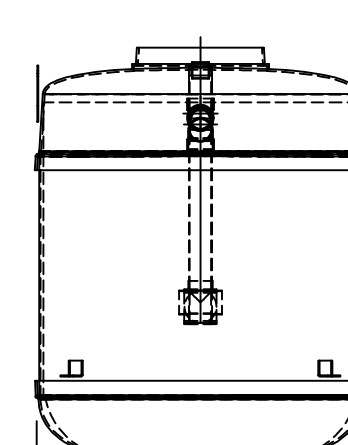
NO SCALE

NOTES:
1. FOR GREASE TRAP APPLICATIONS ONLY.
2. ALL PROCEPTOR UNITS ARE MANUFACTURED WITH
CORROSION RESISTANT MATERIALS: POLYESTER
POLYESTER RESIN AND E GLASS.
3. MINIMUM THICKNESS 1/4" WALL TO BE INSTALLED IN ACCORDANCE
WITH THE MANUFACTURER'S INSTALLATION INSTRUCTION.
4. STANDARD PIPING IS 1/2" NPT.
5. UNITS ARE DESIGNED TO FIT OVER STANDARD 1/2" NPT INLET AND
OUTLET. EXTENSION COLLAR CAN BE ORDERED FOR GREASE TRAP APPLICATIONS.
6. CUT ON SITE FOR FINAL ADJUSTMENT AND CALIBERED WITH
SHARPER OR COMPRESSION FOR WATER TIGHT SEAL.
7. TOOLS AVAILABLE FOR THE PROCEPTOR LUGS.
8. CONSULT GREEN TURTLE FOR LUGS.
9. 10 YEAR WARRANTY AGAINST LEAKS AND STRUCTURAL FAILURE.
10. U.S. PATENT #6,865,000; CANADIAN #2,366,800

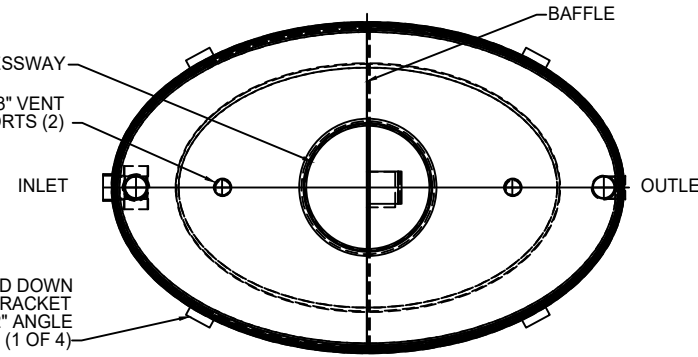
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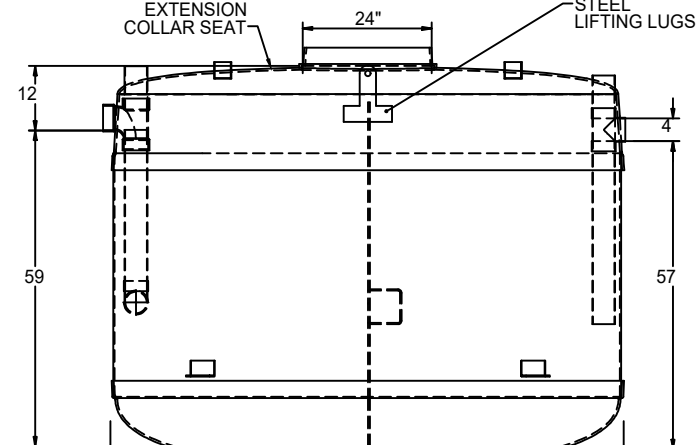
ISOMETRIC VIEW



SIDE VIEW



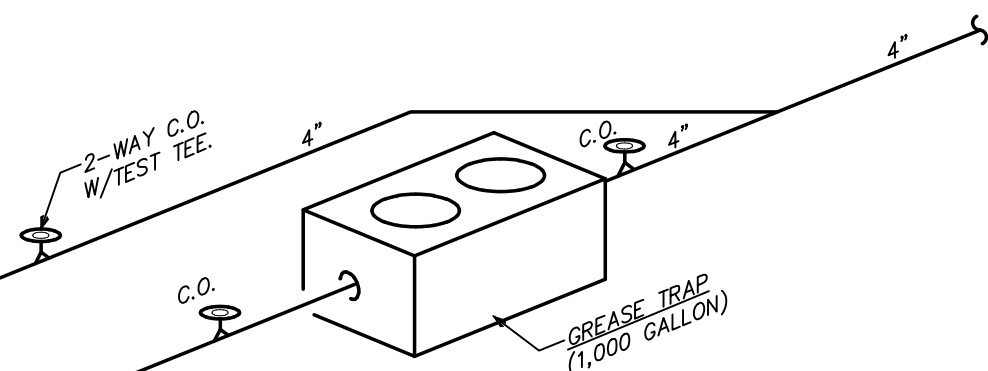
TOP VIEW



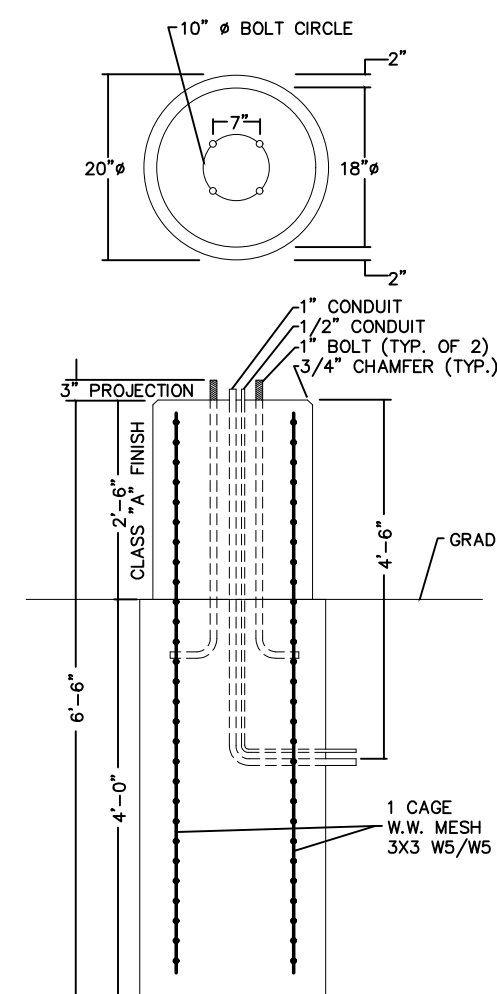
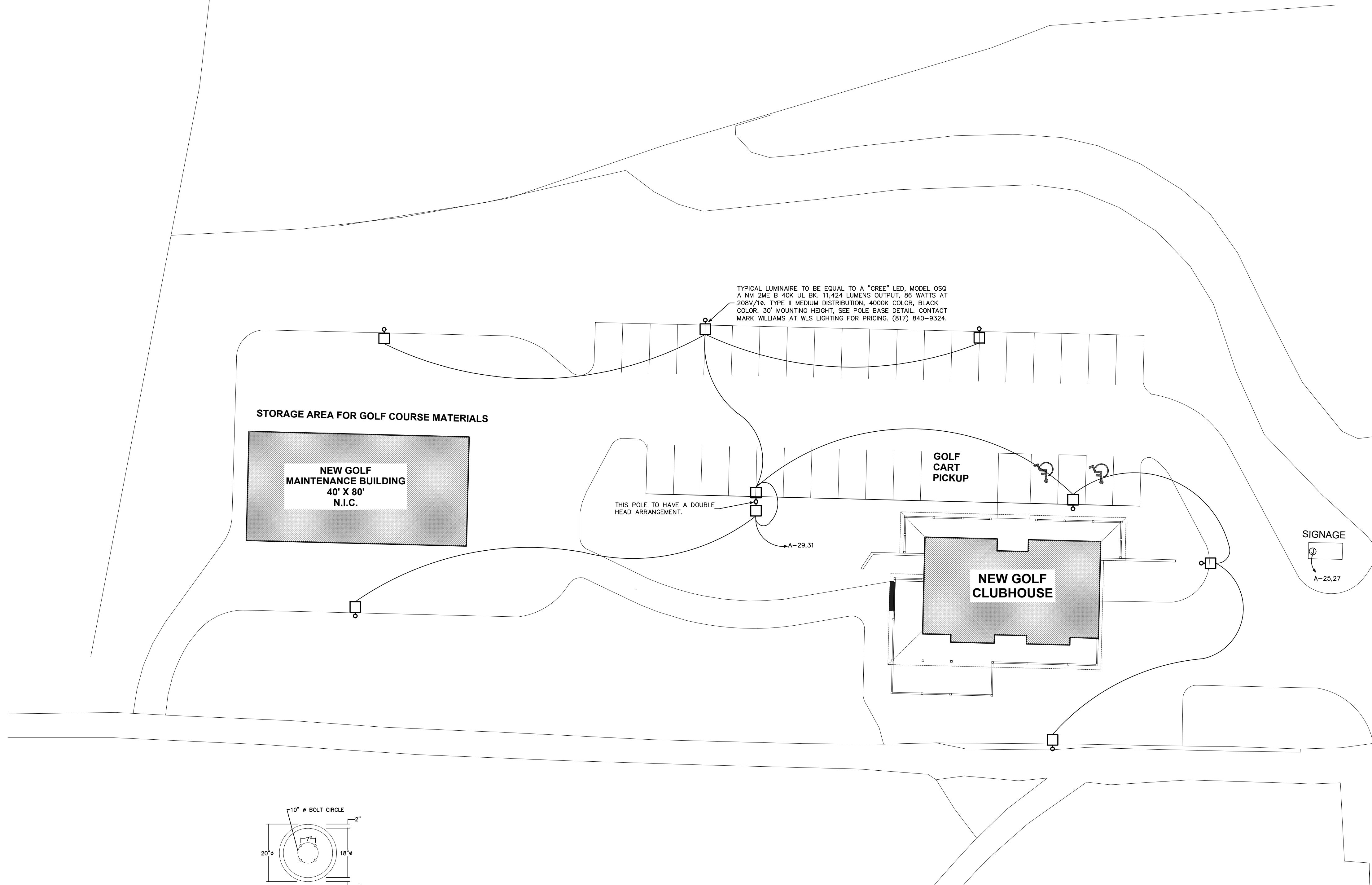
FRONT VIEW

2 GREASE TRAP DETAIL

(1,000 GALLONS)
NO SCALE

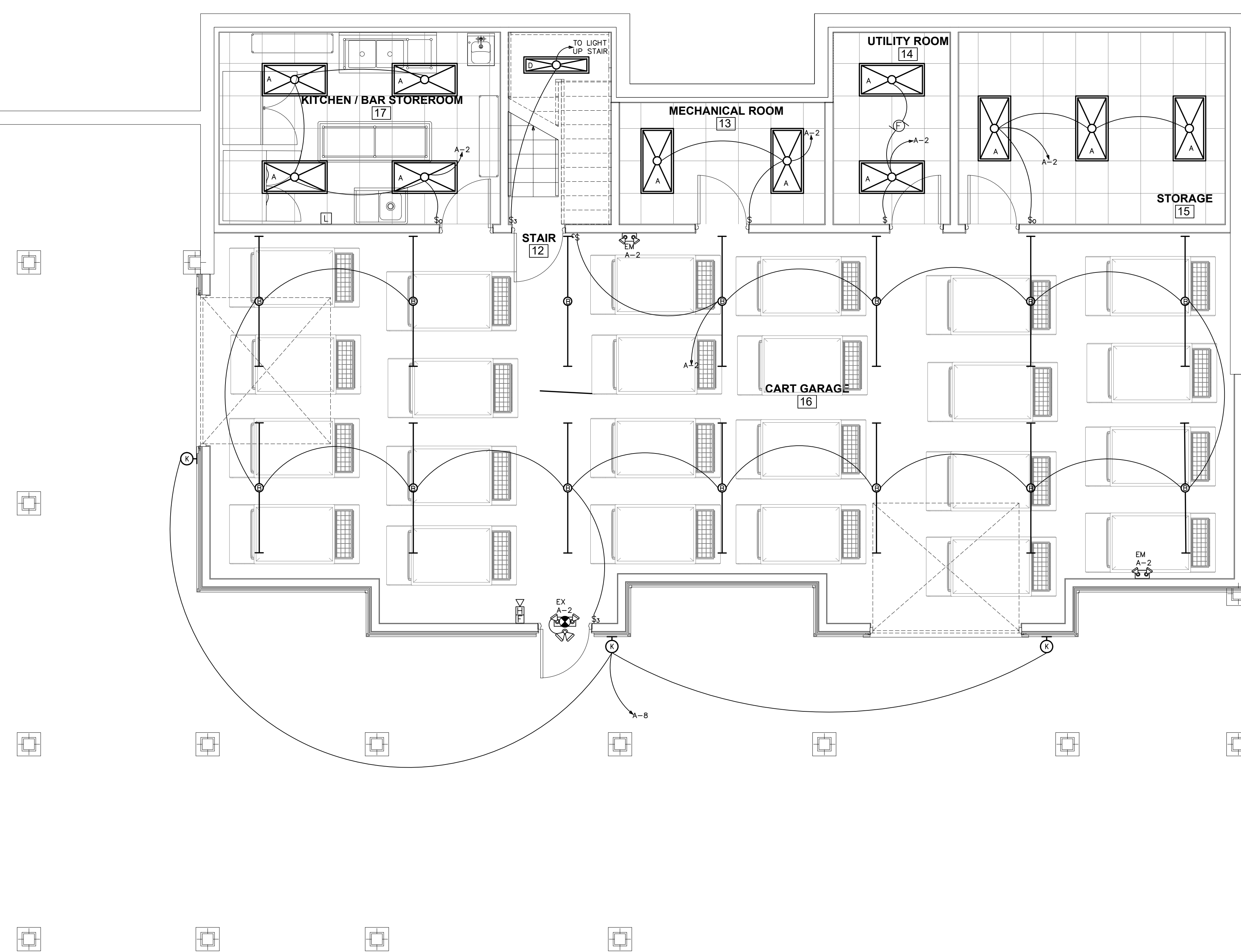


BY	REVISIONS	DATE



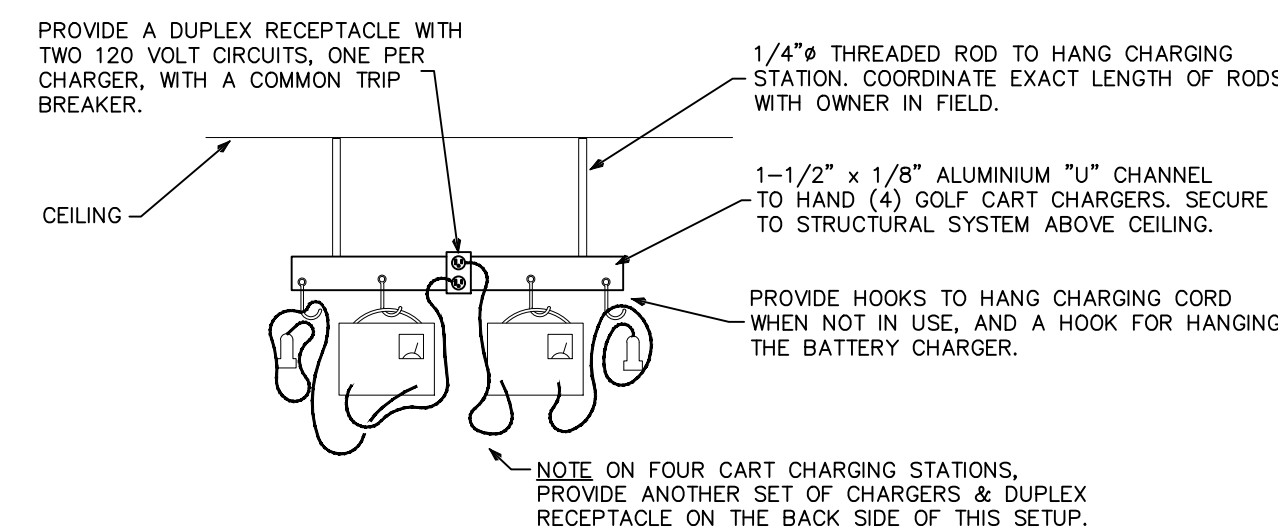
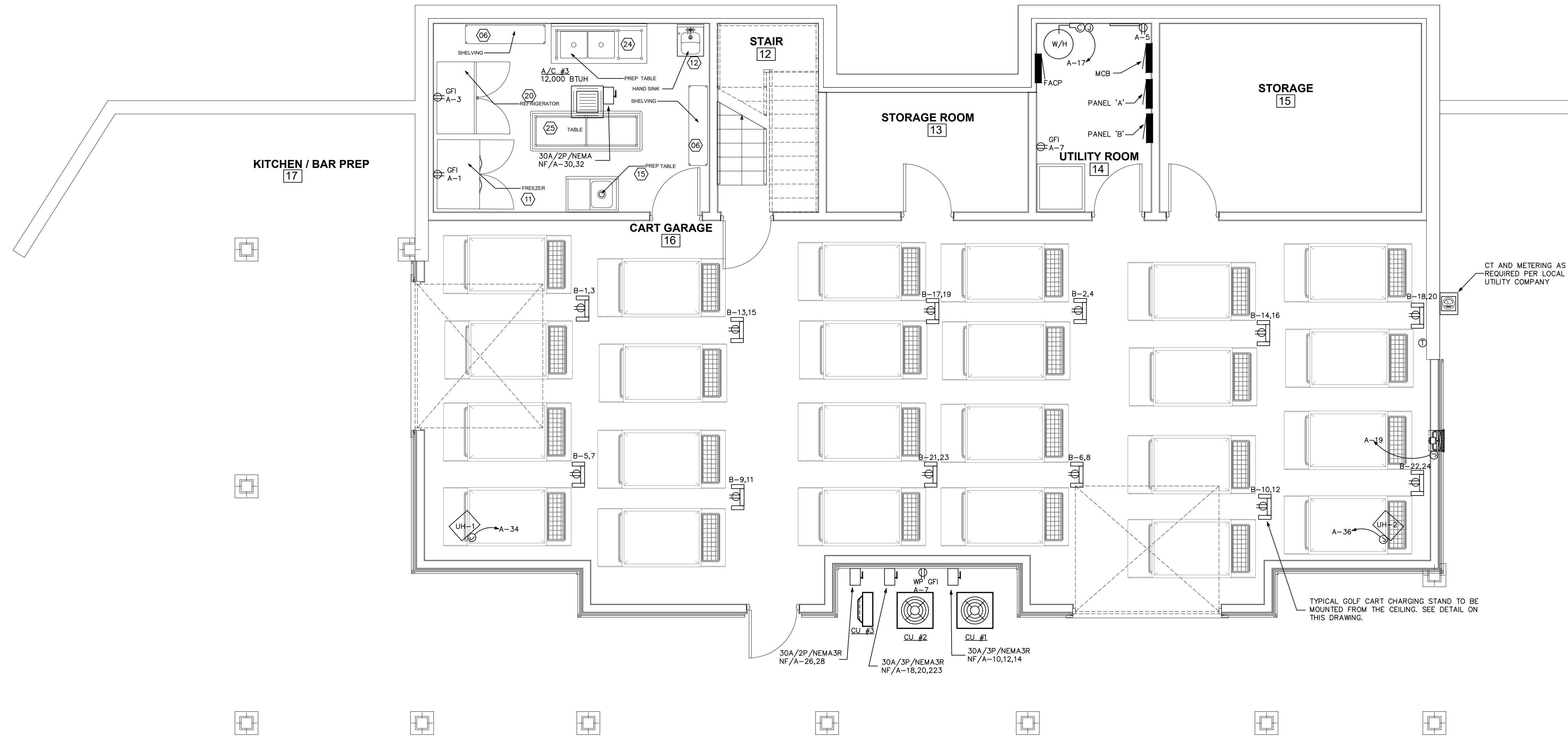
1 SITE PLAN - ELECTRICAL
SCALE: 1"=20'-0"

2 POLE BASE DETAIL
NO SCALE



1 BASEMENT LOWER LEVEL PLAN - LIGHTING

E1



1 BASEMENT LOWER LEVEL PLAN - POWER

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

2 GOLF CART CHARGER MTD DETAIL

NO SCALE

BY	REVISIONS	DATE

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE

PREScriptive

☒

PERFORMANCE

☐

ENERGY COST BUDGET

☐

PROVIDE A STANDARD RISER DIAGRAM WHICH INDICATES DESIGNATED POINTS FOR CHECK METERING. PROVIDE A STANDARD PANEL SCHEDULE DESCRIPTION WHICH IDENTIFIES DIFFERENT ENDOUSE LOADS.

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE

SEE SCHEDULE ON DRAWINGS

NUMBER OF LAMPS IN FIXTURE

SEE SCHEDULE ON DRAWINGS

BALLAST TYPE USED IN FIXTURE

SEE SCHEDULE ON DRAWINGS

NUMBER OF BALLASTS IN FIXTURE

SEE SCHEDULE ON DRAWINGS

TOTAL WATTAGE PER FIXTURE

SEE SCHEDULE ON DRAWINGS

TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED 1019.64 VS. 2222.01

TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED

N/A

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)

MOTOR HORSEPOWER

N/A

NUMBER OF PHASES

N/A

MINIMUM EFFICIENCY

N/A

MOTOR TYPE

N/A

NUMBER OF POLES

N/A

DESIGNER STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA ENERGY CODE 2012, CHAPTER 5.

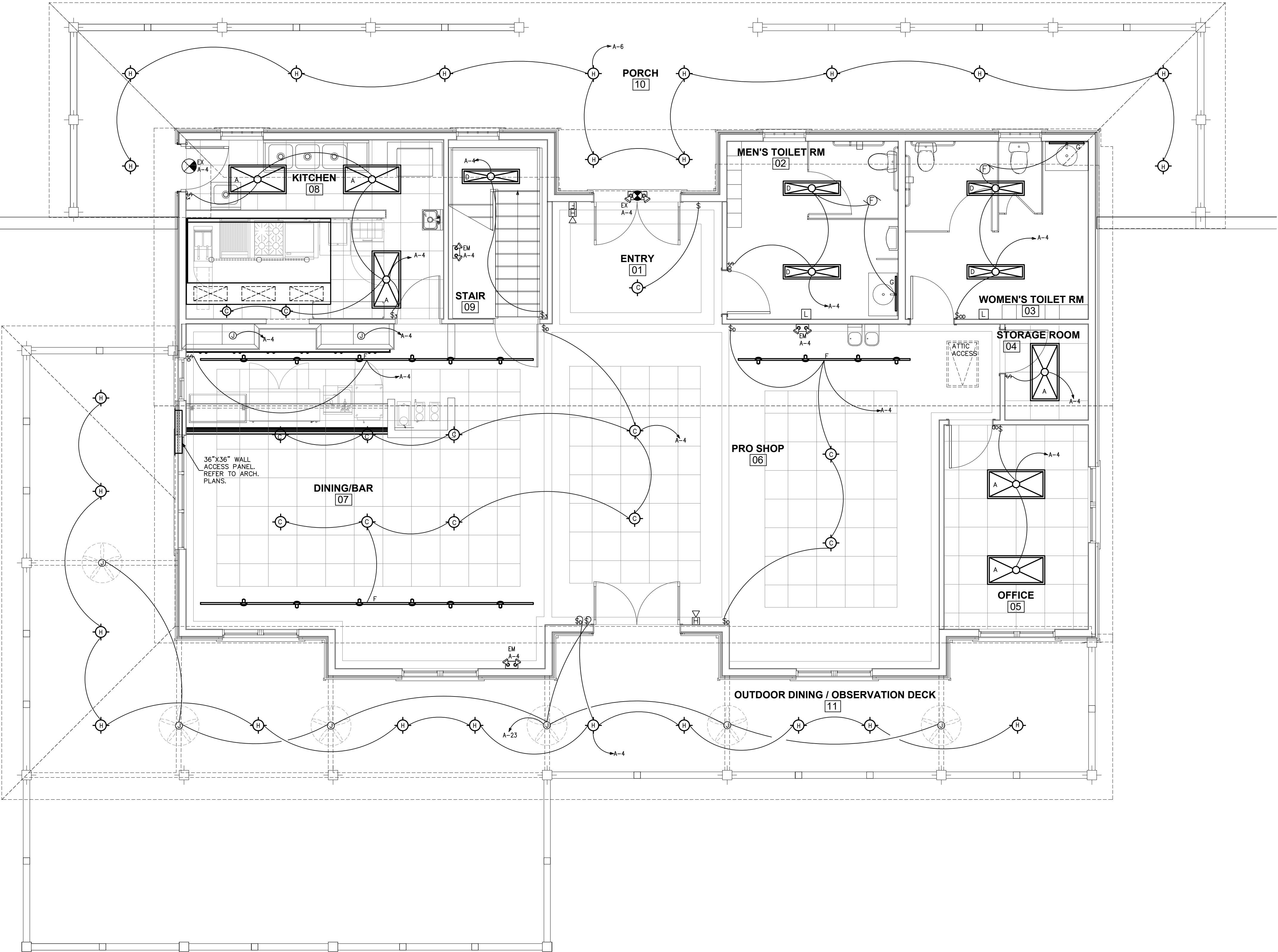
SIGNED:

NAME:

TODD W. CAREY, P.E.

TITLE:

GEORGIA PROFESSIONAL ENGINEER #016927



LIGHTING FIXTURE SCHEDULE							
LABEL	TYPE OF FIXTURE	FINISH	LENS TYPE	VOLTAGE	LAMP	MANUFACTURER & MODEL NO.	REMARKS
A	RECESSED 2'X4' TROFFER LED	WHITE	4000 LUMENS	120	32W	LITHONIA 2ACL4-40L-EDB-LP835	
B	SURFACE MOUNTED 8' LED	WHITE	10,000 LUMENS	120	83W	LITHONIA TZL1N-L961000LM-SBLMVOLT-35K-80CRI-WH	60 nLIGHT
C	6" LED DOWNLIGHT	WHITE	3000 LUMENS	120	16.7W	LITHONIA 6BPMW-HL LED-30K90CRI	
D	SURFACE MOUNTED 2'X4' LED	WHITE	4000 LUMENS	120	32W	LITHONIA 2ACLX4-40L-EDB-LP835	
EM	EMERGENCY EGRESS	WHITE		120	INCLUDED	LITHONIA ELM2	W/ BATTERY BACKUP
EM1	EMERG EGRESS w/ REM HEAD	WHITE		120	INCLUDED	LITHONIA ELM6-12	W/ MODEL NX DUAL REMOTE HEAD. 90 MIN BATTERY
EX	EXIT SIGN	WHITE	RED	120	INCLUDED	LITHONIA LE-SW2R-120/277-ELN	W/ BATTERY BACKUP
F	LED TRACK LIGHTING	WHITE	850 LUMENS	120	12.5W	LITHONIA LTHSTBF-BR30 LED-MW	ORDER LTS4 AND LTS8 TRACK
G	LED VANITY	NICKEL	3000 LUMENS	120	25.27W	LITHONIA FMVTSL-36IN-MVOLT-30K 90CRI-BN	
H	6" LED DOWNLIGHT	WHITE	3000 LUMENS	120	13W	LITHONIA WF6-LED-30K-MW	W/ (5) LITHONIA PRSP HEADS
K	WALL SCONCE LED	WHITE	3000 LUMENS	120	24W	LITHONIA MRW-LED-1-10A700/30K-SR3-MVOLT-PE-DWHXD	

1

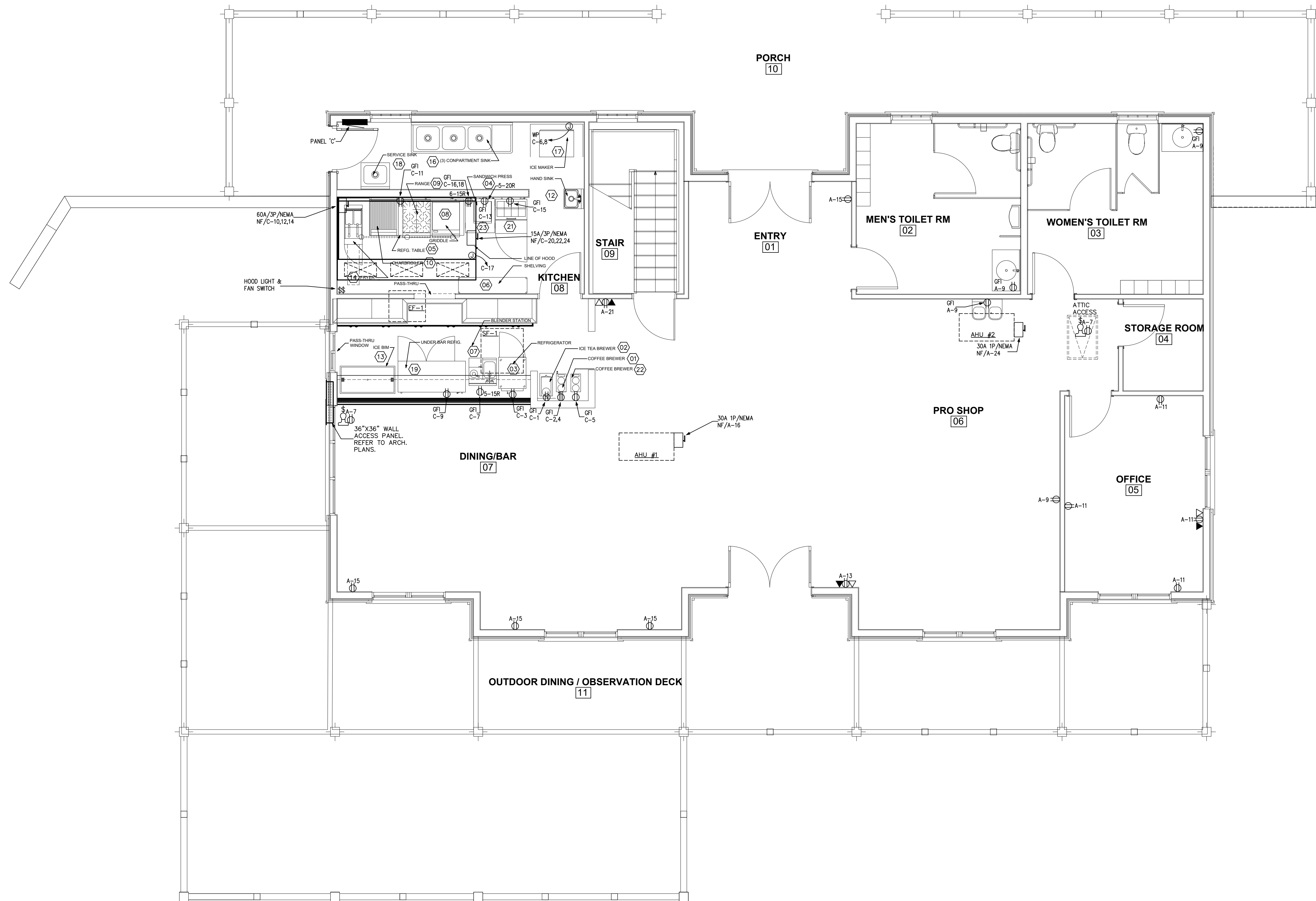
FLOOR PLAN - LIGHTING

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

BY

REVISIONS

DATE



PANEL SCHEDULE MDP																			
400 AMP, 120/208 VOLT, THREE PHASE, FOUR WIRE, M.L.D., 22000 AMPS MINIMUM A.I.C. BRACING, SURFACE 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	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.		
1							SPACE	5716	0	10060	0								2
3							SPACE	5565	0	9880	0	PANELBOARD 'A'	CHAL	2	#6	#3/0	#3/0	200/3	4
5							SPACE	5772	0		9377								6
7							SPACE	0	9120	0	0								8
9							SPACE	0	9120	0	0								10
11							SPACE	0	0	9120	0	PANELBOARD 'B'	CHAL	1-1/2	#6	#1	#1	125/3	12
13							SPACE	0	0	9120	0								14
15							SPACE	5160	0	15401	0								16
17							SPACE	2160	0	11262	0	PANELBOARD 'C'	CHAL	1-1/2	#8	#3	#3	100/3	18
19							SPACE	3040	0		11719								20
WIRE/CONDUIT KEY								34581		30262		30216		PEAK PHASE (A) UNBALANCED NEUTRAL LOAD AMPS = 90.6 AMPS					
1234								L-TEMP RATING				95, 059		NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 264.1 AMPS					
└── CONDUIT TYPE																			
└── INSULATION																			
└── WIRING TYPE																			
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001																			
REGISTERED TO - TODD W. CAREY AND ASSOCIATES																			

PANEL SCHEDULE A																				
200 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	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.			
1	15/1	#12	#12	#12	1/2	CHAL	FREEZER	1428	1428	-----	-----	BASEMENT LIGHTS	CHAL	1/2	#12	#12	#12	20/1	2	
3	15/1	#12	#12	#12	1/2	CHAL	REFRIGERATOR	1600	1600	-----	-----	FLOOR LEVEL LIGHTS	CHAL	1/2	#12	#12	#12	20/1	4	
5	20/1	#12	#12	#12	1/2	CHAL	TELEPHONE RECEPTACLE	696	696	-----	-----	OUTDOORS PORCH LIGHT	CHAL	1/2	#12	#12	#12	20/1	6	
7	20/1	#12	#12	#12	1/2	CHAL	SERVICE REEPTACLE	1293	1293	-----	-----	OUTDOORS LIGHTS **	CHAL	1/2	#12	#12	#12	20/1	8	
9	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLE	180	180	-----	-----									
11	20/1	#12	#12	#12	1/2	CHAL	OFFICE RECEPTACLE	720	720	-----	-----									
13	20/1	#12	#12	#12	1/2	CHAL	PRO SHOP POS	720	720	-----	-----	CONDENSING UNIT #1	CHAL	1/2	#10	---	#10	30/3	10	
15	20/1	#12	#12	#12	1/2	CHAL	RECEPTACLE	1200	1200	-----	-----									
17	25/1	#10	#10	#12	1/2	CHAL	WATER HEATER / TIMER	540	540	-----	-----	AIR HANDLING UNIT #1	CHAL	1/2	#12	#12	#12	20/1	16	
19	15/1	#12	#12	#12	1/2	CHAL	EXHAUST FAN #5	1920	1920	-----	-----									
21	20/1	#12	#12	#12	1/2	CHAL	FUTURE POS	2520	2520	-----	-----	CONDENSING UNIT #2	CHAL	1/2	#10	---	#10	30/3	20	
23	20/1	#12	#12	#12	1/2	CHAL	OUTDOORS DINNING FANS	600	600	-----	-----									
25	20/2	#10	---	#10	1	CHEL	SITE PYLON SIGN **	1920	1920	-----	-----	AIR HANDLING UNIT #2	CHAL	1/2	#12	#12	#12	20/1	24	
27								0	750	-----	-----									
29	20/2	#10	---	#10	1	CHEL	SITE PYLON SIGN *	0	739	-----	-----	CONDENSING UNIT #3	CHAL	1/2	#12	---	#12	15/2	26	
31								0	387	-----	-----									
33							SPACE	0	29	-----	-----	AIR HANDLING UNIT #3	CHAL	1/2	#12	---	#12	15/2	30	
35							SPACE	396	396	-----	-----									
37							SPACE	0	0	-----	-----	UH-1	CHAL	1/2	#12	#12	#12	15/1	34	
39							SPACE	0	0	-----	-----	UH-2	CHAL	1/2	#12	#12	#12	15/1	36	
41							SPACE	0	0	-----	-----	SPACE								
							SPACE	0	0	-----	-----	SPACE								
							SPACE	0	0	-----	-----	SPACE								
								11197	11830	10484	PEAK PHASE (B) UNBALANCED NEUTRAL LOAD AMPS = 56.4 AMPS									
								33.51		NON DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 93.1 AMPS										
WIRING/CONDUIT KEY								PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001												
1-TEMP RATING								REGISTERED TO - TODD W. CAREY AND ASSOCIATES												
2-CONDUIT TYPE																				
3-INSULATION																				
4-WIRING TYPE																				

PANEL NOTES:
* - THIS CIRCUIT IS ON A TIMER
** - THIS IS A PHOTODELL CIRCUIT

ELECTRICAL SYMBOLS LEGEND				NOTE - NOT ALL SYMBOLS MAY BE USED ON PROJECT			
SYMBOLS	DESCRIPTION	SYMBOLS	DESCRIPTION				
ⓘ	DUPLEX RECEPTACLE, MTD. +18" AFF	ⓘ	TRANSFORMER - SIZE AS NOTED				
ⓘ	240 VOLT RECEPTACLE (HT. AS REQ.)	ⓘ	PANEL - SIZE AS NOTED				
ⓘ	QUADRUPLX 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				
\$3	THREE-WAY SWITCH, MTD +47"	ⓘ	CKT. HOMERUN (B INDICATES PANEL)				
\$4	MANUAL STARTER SWITCH	ⓘ	2" DESIGNATES CIRCUIT NUMBER				
\$0	DIMMER SWITCH, MTD +47"	ⓘ	EXIT SIGN, ONE SIDED, OR TWO SIDED				
\$L	SWITCH W/ ILLUM WHEN ON MTD +47"	ⓘ	EMERGENCY LIGHTING				
\$03	THREE-WAY SWITCH W/ OCCU SENSOR MTD. +47"	ⓘ	RECESSED MOUNTED LIGHTING FIXTURE				
\$0	SWITCH W/ OCCU SENSOR.	ⓘ	B DESIGNATES FIXTURE TYPE				
ⓘ	JUNCTION BOX, FLUSH IF POSSIBLE	ⓘ	OVERHEAD OCCUPANCY SENSOR				
ⓘ	TELEPHONE / DATA OUTLET +18"	ⓘ	HIGHBAY HID LIGHTING FIXTURE				
ⓘ	DED. COMPUTER TERM. OUTLET +18"	ⓘ	B DESIGNATES FIXTURE TYPE				
ⓘ	DISCONNECT SWITCH W/ STARTER	ⓘ	FLUORESCENT LIGHTING FIXTURE				
ⓘ	DISCONNECT SWITCH	ⓘ	B DESIGNATES FIXTURE TYPE				
ⓘ	FLR. MTD. FLUSH DUPLEX RECEPTACLE	ⓘ	LED LIGHTING FIXTURE				
ⓘ	FLR. MTD. FLUSH QUAD. RECEPTACLE	ⓘ	B DESIGNATES FIXTURE TYPE				
ⓘ	FLR. MTD. FLUSH PHONE/DATA OUTLET	ⓘ	ISOLATED GROUND				
ⓘ	FLR. MTD. FLUSH COMPUTER OUTLET	ⓘ	WP				
ⓘ	AREA SMOKE DETECTOR	ⓘ	BC				
ⓘ	HEAT DETECTOR	ⓘ	TC				
ⓘ	DUCT SMOKE DETECTOR	ⓘ	GW				
ⓘ	FIRE ALARM MAN. PULL STATION +47"	ⓘ	BSW				
ⓘ	# BESIDE DEVICE IS CANDELLA RATING	ⓘ	FACP				
ⓘ	# BESIDE DEVICE IS CANDELLA RATING	ⓘ	FAAP				

PANEL MDP DIVERSIFICATION CALCULATIONS			
RECEPTACLES (19) -	3360 VA TOTAL		
FIRST 10 KVA AT 100% -	3360		
LIGHTING -	4321 X 125% -	5651	
HVAC LOAD AT 100% -	16103		
MOTOR LOADS AT 100% -	1488		
MISC NON-CONTINUOUS LOADS AT 100% -	3996		
MISC CONTINUOUS LOADS AT 125% -	27360 X 1.25 -	34200	
KITCHEN EQUIPMENT (13) -	24850		
TOTAL DIVERSIFIED PANEL LOAD -	89648		
LOAD AT 120/208V/3-PHASE/4-WIRE -	249.0A		

PANEL A DIVERSIFICATION CALCULATIONS			
RECEPTACLES (25) -	4560 VA TOTAL		
FIRST 10 KVA AT 100% -	4560		
LIGHTING -	3121 X 125% -	3901	
HVAC LOAD AT 100% -	16103		
MOTOR LOADS AT 100% -	2088		
MISC NON-CONTINUOUS LOADS AT 100% -	1233		
MISC CONTINUOUS LOADS AT 125% -	3240		
KITCHEN EQUIPMENT (2) -	2843		
2274 X 1.25 -	2124		
TOTAL DIVERSIFIED PANEL LOAD -	36092		
LOAD AT 120/208V/3-PHASE/4-WIRE -	100.3A		

PANEL B DIVERSIFICATION CALCULATIONS			
MISC CONTINUOUS LOADS AT 125% -	34200		
27360 X 1.25 -	34200		
TOTAL DIVERSIFIED PANEL LOAD -	34200		
LOAD AT 120/208V/3-PHASE/4-WIRE -	95.0A		

PANEL C DIVERSIFICATION CALCULATIONS			
LIGHTING -	1480 X 125% -	1750	
MISC NON-CONTINUOUS LOADS AT 100% -	876		
KITCHEN EQUIPMENT (11) -	23469		
36106 X 0.65 -	23469		
TOTAL DIVERSIFIED PANEL LOAD -	26995		
LOAD AT 120/208V/3-PHASE/4-WIRE -	72.5A		

PANEL SCHEDULE B																				
125 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	C.	KEYS							KEYS	C.	GND	NEUTRAL	COND.			
1								0	1140	-----	-----									
3	20/2	#12	#12	#12	1/2	CHAL	(2) GOLF CART CHARGERS	0	1140	-----	-----	(2) GOLF CART CHARGERS	CHAL	1/2	#12	#12	#12	20/2	2	
5								0	1140	-----	-----								4	
7	20/2	#12	#12	#12	1/2	CHAL	(2) GOLF CART CHARGERS	0	1140	-----	-----	(2) GOLF CART CHARGERS	CHAL	1/2	#12	#12	#12	20/2	6	
9								0	1140	-----	-----								8	
11	20/2	#12	#12	#12	1/2	CHAL	(2) GOLF CART CHARGERS	0	1140	-----	-----	(2) GOLF CART CHARGERS	CHAL	1/2	#12	#12	#12	20/2	10	
13								0	1140	-----	-----								12	
15	20/2	#12	#12	#12	1/2	CHAL	(2) GOLF CART CHARGERS	0	1140	-----	-----	(2) GOLF CART CHARGERS	CHAL	1/2	#12	#12	#12	20/2	14	
17								0	1140	-----	-----								16	
19	20/2	#12	#12	#12	1/2	CHAL	(2) GOLF CART CHARGERS	0	1140	-----	-----	(2) GOLF CART CHARGERS	CHAL	1/2	#12	#12	#12	20/2	18	
21								0	1140	-----	-----								20	
23	20/2	#12	#12	#12	1/2	CHAL	(2) GOLF CART CHARGERS	0	1140	-----	-----	(2) GOLF CART CHARGERS	CHAL	1/2	#12	#12	#12	20/2	22	
25								0	1140	-----	-----								24	
27							SPACE	0	0	-----	-----	SPACE							26	
29							SPACE	0	0	-----	-----	SPACE							28	
31							SPACE	0	0	-----	-----	SPACE							30	
WIRE/CONDUIT KEY								9120	9120	9120	NDN DIVERSIFIED LOAD AT 208 VOLT, THREE PHASE = 76. AMPS									
1234								27,360												
L-TEMP RATING																				
CONDUIT TYPE																				
INSULATION																				
WIRING TYPE																				
TEMP RATING																				
C-U WIRE																				
H-THWN																				
A-EMT																				
L-78-86 Deg. F.																				
PRINTED ON PANELS PROGRAM SERIAL NUMBER 2001.4001																				
REGISTERED TO - TODD V. CAREY AND ASSOCIATES																				