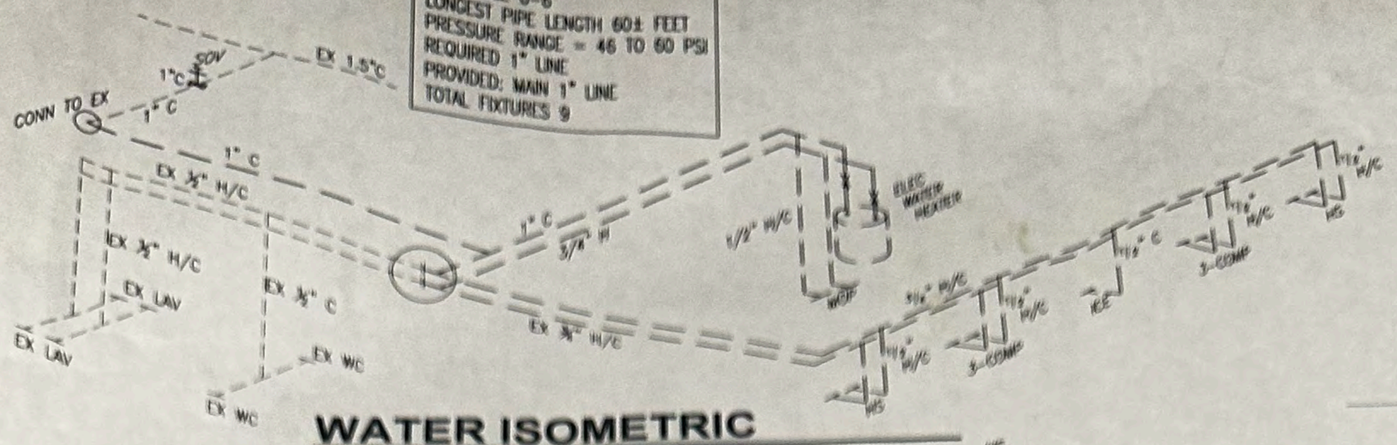
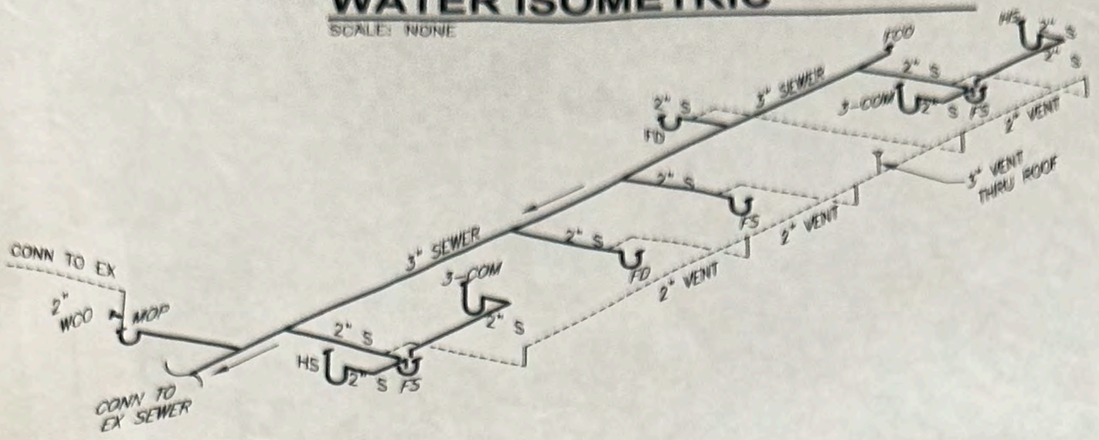
WATER CALCULATION
PER TABLE 6-6
LONGEST PIPE LENGTH 60± FEET
PRESSURE RANGE = 46 TO 60 PSI
REQUIRED 1" LINE
PROVIDED: MAIN 1" LINE
TOTAL FIXTURES 9



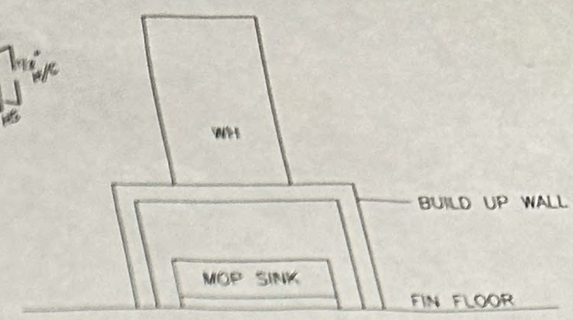
WATER ISOMETRIC

SCALE: NONE



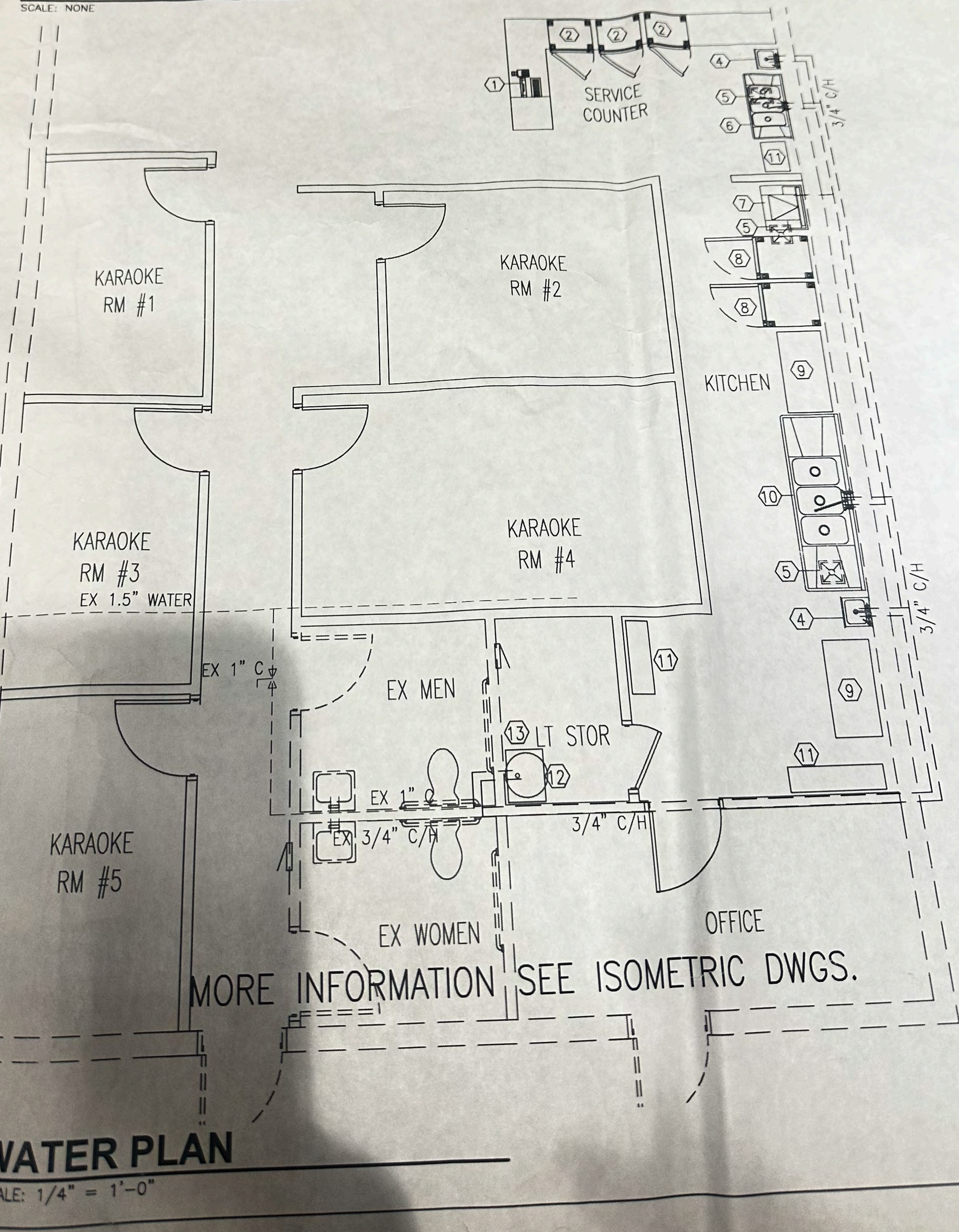
SEWER ISOMETRIC

SCALE: NONE



WATER HEATER ABOVE MOP SINK

SCALE: NONE



WATER PLAN

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

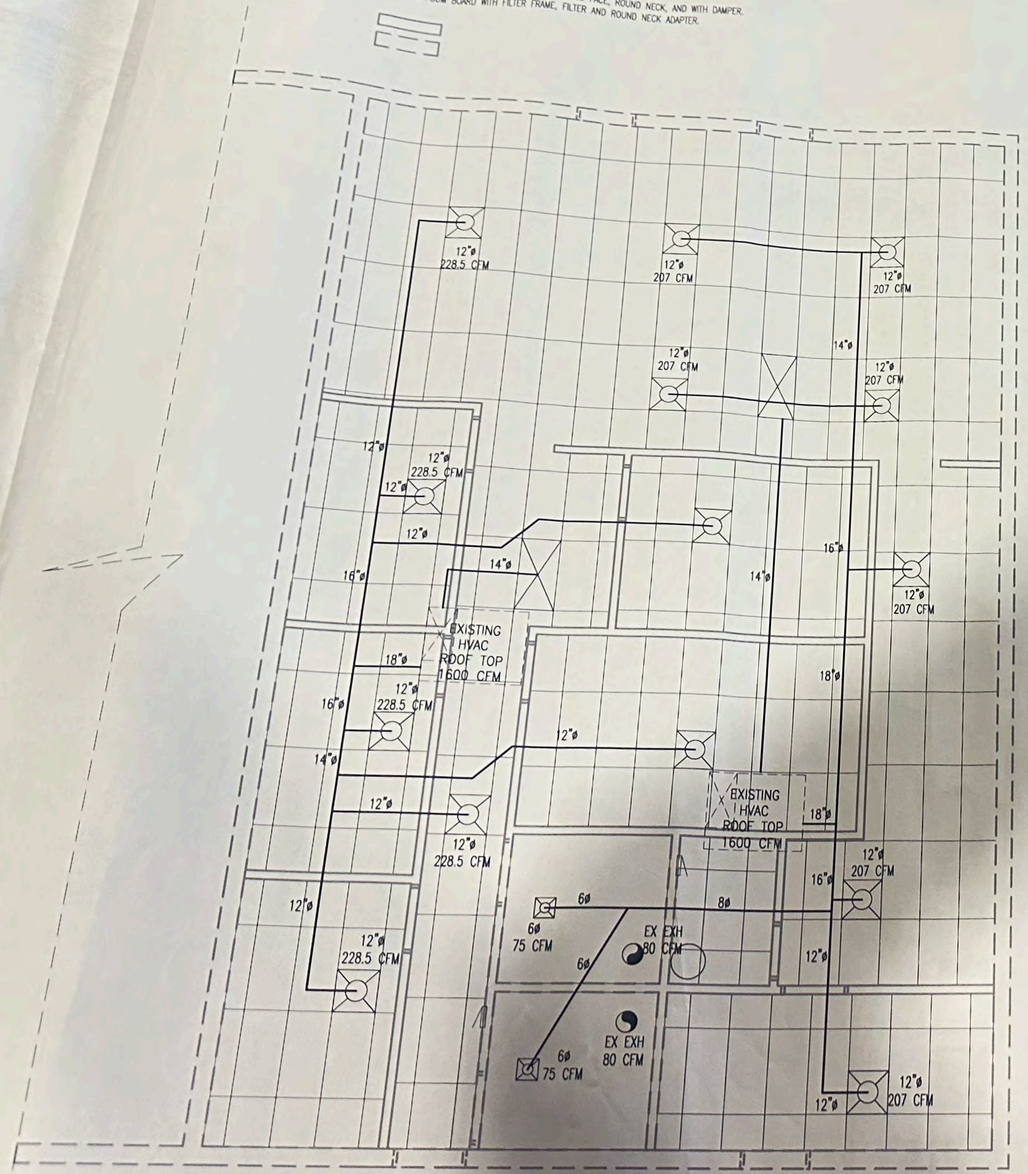
Rev	Date	By	Description

Plotted: Jul 25, 2015 - 2:08pm, by Jeff Hall
Drawing: P:\Project_2015\Karaoke at decatur and sp-mtn\KO-P-Set.dwg, p-1, 7/25/2015 2:08:08 PM, by Jeff Hall
Plot Style: Full Color.ctb
Plot Device: HP Designjet T1300 PostScript.pc3

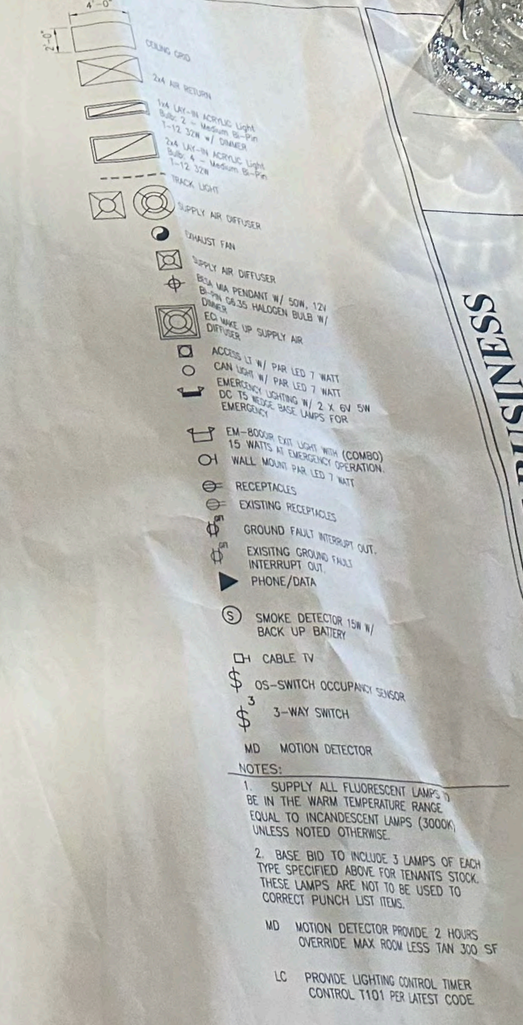
EXISTING ROOF TOP UNIT
Configuration Horizontal
Cooling Capacity 46000 BTU
Cooling Capacity 4 Tons
SEER 14.5 SEER
Electric Heat Capabilities (Optional) 10 / 15 / 20 / 5 / 8 Kilowatts
Nominal CFM 1600
Refrigerant R-410A
Maximum Overcurrent Protection (Breaker) 45 Amps
Compressor Type Scroll
Noise Level 80 Decibels
Pad Size 38x65 Inches
Product Weight 400 lbs
Width 66 1/2 Inches
Depth 34 Inches
Height 38 3/4 Inches
Voltage 208 / 230 Volts
Frequency 60 Hz
Voltage Phase 1

UMC TABLE 402.1
(RpXP2) + (Rq+A2)
(7.5x100) + (.18x2124)
(750)+(382)=1132
PROVIDED 3200 CFM

AIR OUTLET SCHEDULE
CEILING DIFFUSER FOR T-BAR CEILING INDIVIDUALLY ADJUSTABLE CURVED FACE BAR, PERFORATED FACE, ROUND NECK, AND WITH DAMPER.
CEILING RETURN REGISTER WITH ½" GRID CORE FACE, GYPSUM BOARD WITH FILTER FRAME, FILTER AND ROUND NECK ADAPTER.



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



NOTES:
1. SUPPLY ALL FLUORESCENT LAMPS TO BE IN THE WARM TEMPERATURE RANGE EQUAL TO INCANDESCENT LAMPS (3000K) UNLESS NOTED OTHERWISE.
2. BASE BID TO INCLUDE 3 LAMPS OF EACH TYPE SPECIFIED ABOVE FOR TENANTS STOCK. THESE LAMPS ARE NOT TO BE USED TO CORRECT PUNCH LIST ITEMS.

MD MOTION DETECTOR PROVIDE 2 HOURS OVERRIDE MAX ROOM LESS TAN 300 SF

LC PROVIDE LIGHTING CONTROL TIMER CONTROL T101 PER LATEST CODE

CDT BUSINESS COMPANY
4821 SPRING MOUNTAIN RD.
SUITE A&B
LAS VEGAS NV. 89108

Description

											ELECTRICAL		
				DIMENSION LxDxH	REMARKS	MODEL/SPECS	PIPE	BTU	VOLTAGE	HP	AMP	PLUG
1	CASHIER			OWNER								
2	REACH-IN REF.			OWNER								
3												
4	HAND SINK											
5	FLOOR SINK		OWNER	OWNER								
6	3-CMP SMALL		OWNER	OWNER								
7	ICE MACHINE		OWNER	OWNER								
8	RECH IN REF.		ICE-O-MATIC	4X18					110			
9	WORK TABLE		OWNER	OWNER		OWNER			115		6	
10	3-COMP-SINK		OWNER	OWNER							6.5	
11	SHELVES		OWNER	OWNER								
12	MOP SINK		OWNER	OWNER								
13	WATER HEATER TANKLESS		OWNER	OWNER								

NOTE: ALL EQUIPMENTS ALL MEET NSF AND WORK TABLE (WT) AND SHELVES ARE SELECTED BY OWNER FOR SIZES

CONTRACTOR AND OWNER SHALL VERIFY ALL EQUIPMENT PRIOR TO ORDERING AND INSTALLATIONS.

INTERIOR FINISHED SCHEDULE

ROOM	FLOOR	BASE	WALL	CEILING	REMARKS
DINNING	7	8	6	2	–
KITCHEN	10	9	6	2	–
REST ROOM	7	8	3	2	–
STORAGE	10	8	7	1	–
PREP-AREA	10	9	4	2	–
			3	2	–

NOTE:
1. HARD BOARD CEILING
2. T-BAR SUSPENDED GRID W/ 2X4 GYPSUM TYPE PANEL
3. STAINLESS STEEL 8' HEIGHT
4. FRP
5. SEMI GLOSS CAMEL
6. PANELING
7. CERAMIC TILES
8. 6" COVE BASE
9. 6" COVE STAINLESS BASE
10. 6" QUARRY TILE

NEW WALL
EXISTING WALL

EX DOOR
EX DOOR

OWNER SELECTED FIN FLOOR
KARAOKE AREA

SERVICE COUNTER

KARAOKE RM #1
KARAOKE RM #2
KARAOKE RM #3
KARAOKE RM #4
KARAOKE RM #5

KITCHEN
NON SLIP TILES

EX MEN
LT STOR
EX WOMEN
OFFICE
OWNER SELECTED FIN FLOOR

3X7 HC
AA
TYP

18'-8"
13'-4"
12'-11"
12'-6"
8'-3"
4'-0"
3'-9"
14'-1"
3'-6"
3'
12'-10"
8'-0"
10'-11"
10'-7"
7'-9"
57'-5"
29'-3"
7'-4"
8'-3"
3'-9"
8'-8"
5'-5"
10'-11"

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

MATCH EXISTING CLNG HT
KARAOKE AREA
SERVICE COUNTER
KARAOKE RM #1
KARAOKE RM #2
KARAOKE RM #3
KARAOKE RM #4
KARAOKE RM #5
MATCH EXISTING CLNG HT
KITCHEN
EX MEN
EX CLNG
LT STOR
EX CLNG
EX WOMEN
OF

REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

4'-0"
2'-0"
CEILING GRID
2x4 AIR RETURN
1x4 LAY-IN ACRYLIC Light Bulb: 2 – Medium Bi-Pin T-12 32W w/ DIMMER
2x4 LAY-IN ACRYLIC Light Bulb: 4 – Medium Bi-Pin T-12 32W
TRACK LIGHT
SUPPLY AIR DIFFUSER
EXHAUST FAN
SUPPLY AIR DIFFUSER
BESA MIA PENDANT W/ 50W, 12V BI-PIN G6.35 HALOGEN BULB W/ DIMMER
ECI MAKE UP SUPPLY AIR DIFFUSER
ACCESS LT W/ PAR LED 7 WATT
CAN LIGHT W/ PAR LED 7 WATT
EMERCENCY LIGHTING W/ 2 X 6V 5W DC T5 WEDGE BASE LAMPS FOR EMERGENCY
EM-BOOOIR EXIT LIGHT WITH (COMBO) 15 WATTS AT EMERGENCY OPERATION.
WALL MOUNT PAR LED 7 WATT
RECEPTACLES
EXISTING RECEPTACLES
GROUND FAULT INTERRUPT OUT.
EXISITNG GROUND FAULT INTERRUPT OUT.
PHONE/DATA
SMOKE DETECTOR 15W W/ BACK UP BATTERY
CABLE TV
OS-SWITCH OCCUPANCY SENSOR
3-WAY SWITCH
MD MOTION DETECTOR

NOTES:
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MD MOTION DETECTOR PROVIDE 2 HOURS OVERRIDE MAX ROOM LESS TAN 300

LC PROVIDE LIGHTING CONTROL TIMER CONTROL T101 PER LATEST CODE

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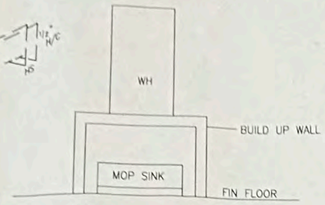
WHEELC
TO
D

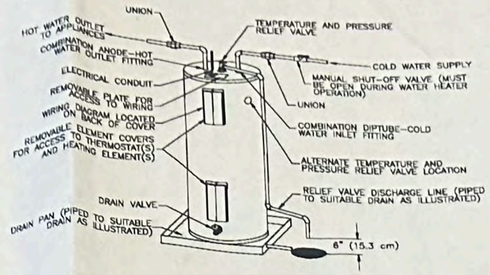
COMPAR

WATER CALCULATION
PER TABLE 6-6
LONGEST PIPE LENGTH 824 FEET
PRESSURE RANGE = 46 TO 60 PSI
REQUIRED 1" LINE
PROVIDED: MAIN 1" LINE
TOTAL FIXTURES 9

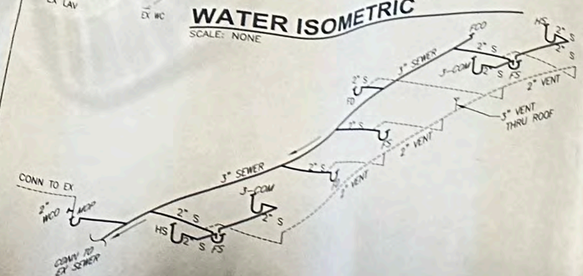
WATER ISOMETRIC
SCALE: NONE



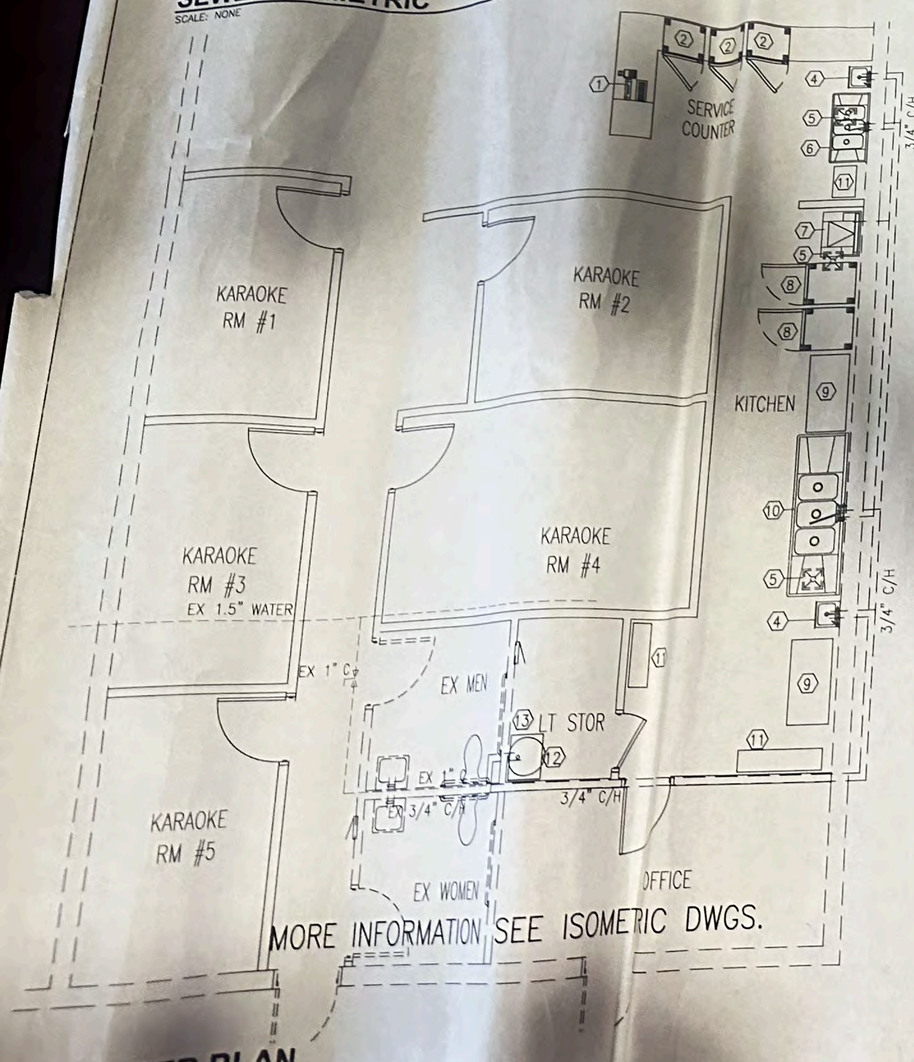
WATER HEATER ABOVE MOP SINK
SCALE: NONE



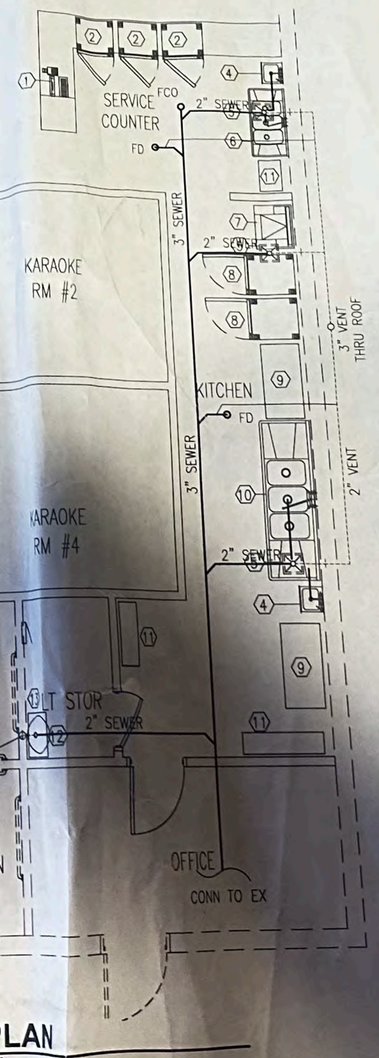
40 GA. ELEC WATER HEATER
SCALE: NONE



SEWER ISOMETRIC
SCALE: NONE



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



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

PLUMBING SYMBOL LIST

CW		COLD WATER LINE
HW		HOT WATER LINE
HWR		HOT WATER RETURN LINE
V		VENT LINE
W		WASTE LINE
S		SEWER LINE
G		GAS LINE
HB		HOSE BIB
GV		GATE VALVE
BF		BACKFLOW PREVENTER
GC		GAS COCK
CO		CLEANOUT
CO@G		CLEANOUT TO GRADE
WCO		WALL CLEANOUT
CB		CONDENSATE DRAIN
VT		VENT THRU ROOF
SPL		SLOPE PIPE DN.
FU		FIXTURE UNIT
EL		INVERT ELEVATION
PRV		PRESS. RELIEF VALVE
IFJ		IN FLOOR JOIST
BG		BELOW GRADE
P.O.C.		POINT OF CONNECTION
FD		FLOOR DRAIN
FS		FLOOR SINK

COMMERCIAL KITCHEN NOTES:

1. ALL WORKS AND MATERIALS SHALL COMPLY WITH 2006 IBC, UMC, UPC, NFPA, IECC, 2005 NEC, CLARK COUNTY HEALTH DEPARTMENT, SOUTHERN NEVADA AND CITY OF LAS VEGAS LATEST RULES AND REGULATION.
2. ALL KITCHEN EQUIPMENT SHALL BE U.L. LISTED OR NSF APPROVED.
3. KITCHEN FLOOR SHALL BE TILES.
4. KITCHEN WALLS SHALL HAVE FRP PANELS OR STAINLESS STEEL.
5. KITCHEN CEILING SHALL BE T-BAR WASHABLE TYPE OR GYPSUM BOARD WITH SIMI GLOSS PAINT.
6. KITCHEN LIGHTING SHALL HAVE 50 FOOT CANDLE MINIMUM ILLUMINATION.
7. TYPE-I HOOD SHALL BE U.L. LISTED COMPLETE WITH EXHAUST FAN, GREASE DUCT, MAKE UP AIR UNIT, FIRE SUPPRESSION SYSTEM AND STAINLESS STEEL BACKING.
8. ALL GAS COOKING EQUIPMENT SHALL HAVE A QUICK DISCONNECT GAS CONNECTOR.
9. ALL KITCHEN DRAINS AND INDIRECT DRAINS SHALL BE CONNECTED TO THE GREASE INTERCEPTOR.

WASTE & VENT SYSTEM NOTES:

1. SLOPE TO BE 1/4" PER FOOT.
2. DRAINS 5"- 0" OR LONGER SHALL HAVE A CLEANOUT. CLEANOUT SHALL NOT PASS THROUGH MORE THAN 135 DEG. CHANGE OF DIRECTION.
3. VENTS SHALL TERMINATE VERTICALLY NOT LESS THAN 6' ABOVE ROOF AND 3'- 0" ABOVE ANY WINDOW, DOOR OR AIR INTAKE.
4. SYSTEM SIZED IN ACCORDANCE WITH 2006 U.P.C.
5. VENT PIPING MAY BE OFFSET AT 45 DEG. ANGLES AND STILL BE CONSIDERED VERTICAL.
6. FIELD INSTALLED PIPING SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE LOCAL ENFORCEMENT AGENCY.
7. ALL SEWER LINES AND FITTINGS SHALL BE ABS SCHEDULE 40 OR 80.
8. ALL VENTS SHALL RISE TO A PO INT 6" ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE.

GAS PIPING NOTES:

1. ALL GAS PIPING SHALL USE STANDARD WEIGHT BLACK IRON OR STEEL.
2. APPLIANCE CONNECTORS SHALL BE LISTED BY AN APPROVED LISTED AGENCY.
3. APPLIANCE SHALL BE INSTALLED IN ACCORDANCE WITH THE TERMS OF THEIR LISTED MANUFACTURERS INSTALLATION INSTRUCTION.
4. ACCESSIBLE SHUT-OFF VALVE TO BE INSTALLED IN FUEL SUPPLY PIPING OUTSIDE EACH APPLIANCE.

WATER PIPING NOTES:

1. WATER PIPING AND FITTINGS SHALL BE COPPER.
2. SUPPLY TUBING TO BE 3/8" O.D. WITH MAXIMUM LENGTH 18" AND BRASS FLARE FITTINGS.
3. PIPING SHALL BE SECURED AT 48" INTERVAL AND AT CHANGES IN DIRECTIONS.
4. HOSE BIBS SHALL BE PROTECTED BY AN APPROVED NON REMOVABLE TYPE BACKFLOW PREVENTION DEVICE.
5. ALL FITTINGS, FIXTURES AND MATERIALS SHALL BE LISTED BY AN APPROVED TESTING AGENCY.
6. CONTRACTOR OPTION TO USE WIRESIBO & FITTINGS SYSTEM

CODE ANALYSIS

1. ALL WORK SHALL BE IN ACCORDANCE WITH 2012 IBC, UMC, UPC & NFPA, IECC AND 2011 NEC. ALL LATEST RULES, REGULATION AND ORDINANCES OF THE CLARK COUNTY AND STATE OF NEVADA.

NOTE: PROVIDE AUTOMATIC FIRE EXTINGUISHING SYSTEM TO BE INTERCONNECTED WITH COOKING EQUIPMENT FUEL SUPPLY FOR AUTOMATIC SHUT-OFF.

SOIL /SEWER/WASTE DISTRIBUTION TABLE

ITEM	DESCRIPTION	QTY	DFU	SOIL OR WASTE TOTAL	WASTE	VENT	REMARK
MOP	SERVICE SINK	1	3	3	2"	2"	WALL MTD, ABOVE FS
LAV	LAVATORY	2	1	2	2"	2"	HCP TYPE WALL HUNG VANDING VALVE
WC	WATER CLOSET	2	4	8	3"	2"	1.6 GALS. HCP FLUSH ENLOGATED WC OPEN SEAT
FD	FLOOR DRAIN	2	2	4	2"	2"	
FS	FLOOR SINK	3	1	3	2"	2"	12"X12"X12" BUCKET
DW	DISH WASHER	0	2	0	2"	2"	
UR	URINAL	0	2	0	2"	2"	
3-COM	3-COMP/SINK	2	3	6	2"	2"	
HS	HAND SINK	2	1	2	2"	2"	
2 COM	2 COMP SINK	0	3	0	2"	2"	
TOTAL				28			

WATER DISTRIBUTION TABLE

ITEM	DESCRIPTION	QTY	F.U.	WATER TOTAL	HOT	COLD	REMARK
MOP	SERVICE SINK	1	3	3	1/2"	1/2"	
HS	HAND SINK	2	1	2	1/2"	1/2"	WALL MTD, ABOVE FS
LAV	LAVATORY	2	1	2	1/2"	1/2"	HCP TYPE WALL HUNG VANDING VALVE
WC	WATER CLOSET	2	2.5	5		1/2"	1.6 GALS. HCP FLUSH TANK
1 COM	1 COMP SINK	0	3	0	1/2"	1/2"	
DWSK	DISH WASHER	0	1.5	0	1/2"	1/2"	12"X12"X12" BUCKET
WH	WATER HEATER				1/2"	1/2"	
2KS	2 COMP SINK	0	3	0	1/2"	1/2"	
WOK	WOK	0	1	0		1/2"	
3KS	3-COMP. SINK	2	3	6	1/2"	1/2"	
UR	URINAL	0	5	0		3/4"	FLUSH VALVE
IC	ICE MACHINE	1	0.5	0.5		1/2"	
TOTAL				18.5			

PLUMBING FIXTURES NOTES:
1. ALL PLUMBING FIXTURES SHALL CONFORM WITH LOCAL GOVERN WATER CONSERVATION CODE.
2. WATER CLOSET IS A 1.6 GAL FLUSH TANK WITH HAVE ELONGATED BOWL AND OPEN FRONT SEAT AND HANDICAPPED TYPE.

CDT BUSINESS COMPANY
4821 SPRING MOUNTAIN RD.
SUITE A&B
LAS VEGAS NV. 89108

Rev | Date | By | Description
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