

HOMER NATURAL GAS CONVERSION PROJECT - PHASE I

CITY OF HOMER



MAYOR
MARY E. (BETH) WYTHE

CITY MANAGER
WALT WREDE

PUBLIC WORKS DIRECTOR
CAREY S. MEYER, P.E.

CITY COUNCIL MEMBERS:
DAVID LEWIS
JAMES DOLMA
FRANCIE ROBERTS
BARBARA HOWARD
BRYAN ZAK
BEAUREGARD BURGESS

<u>DRAWING</u>	<u>SHEET</u>
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	CONSULTING ENGINEERS
	STRUCTURAL/CIVIL
	155 BIDARKA ST KENAI, AK 99611
	TEL. (907) 283 - 3583 NELSONENGINEER@ALASKA.NET

FUEL TANK ABANDONMENT AND DISPOSAL NOTES FOR PUBLIC WORKS AND ANIMAL SHELTER TANKS:

ABANDONMENT AND DISPOSAL:

- 1.) COORDINATE WITH OIL DISTRIBUTOR TO REMOVE OIL FROM THE TANK AND LINES AND REMOVE PRODUCT OFFSITE. PROVIDE REFUND TO THE OWNER FOR UNUSED RECOVERABLE FUEL OIL.
- 2.) DRAIN, DISCONNECT AND CAP ALL FUEL OIL PIPING.
- 3.) CUT OPEN AND CLEAN TANK TO REMOVE OIL SLUDGE AND/OR RESIDUE AND DISPOSE OF WASTE MATERIALS WITH APPROVED HAZARDOUS MATERIALS DISPOSAL AGENCY.
- 4.) REMOVE TANK OFFSITE AND TRANSPORT TO OWNER APPROVED DISPOSAL FACILITY.

CLEANING AND TRANSPORT FOR REUSE:

- 1.) COORDINATE WITH OIL DISTRIBUTOR TO REMOVE OIL FROM THE TANK AND LINES AND REMOVE PRODUCT OFFSITE. PROVIDE REFUND TO THE OWNER FOR UNUSED RECOVERABLE FUEL OIL.
- 2.) DRAIN, DISCONNECT AND CAP ALL PIPING.
- 3.) CLEAN TANK TO REMOVE OIL SLUDGE AND/OR RESIDUE AND DISPOSE OF WASTE MATERIALS WITH APPROVED HAZARDOUS MATERIALS DISPOSAL AGENCY.
- 4.) TRANSPORT TANK TO OWNER DESIGNATED LOCATION NEAR PUBLIC WORKS BUILDING.

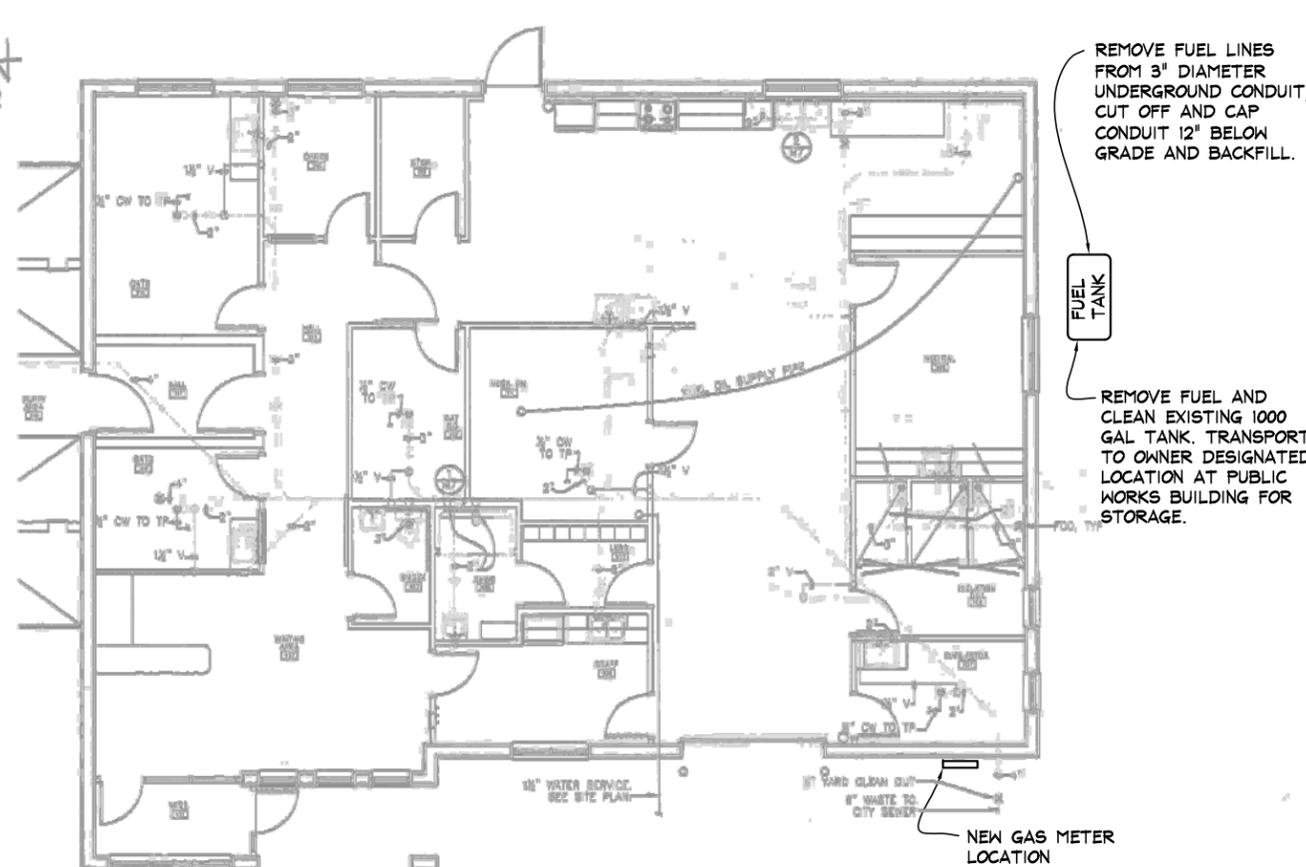
REPORT TO OWNER OR OWNERS REP ANY CONTAMINATION OF SOIL OR GROUNDWATER FOUND DURING TANK REMOVAL.



TANK LOCATION



TANK WITH UNDERGROUND CONDUIT



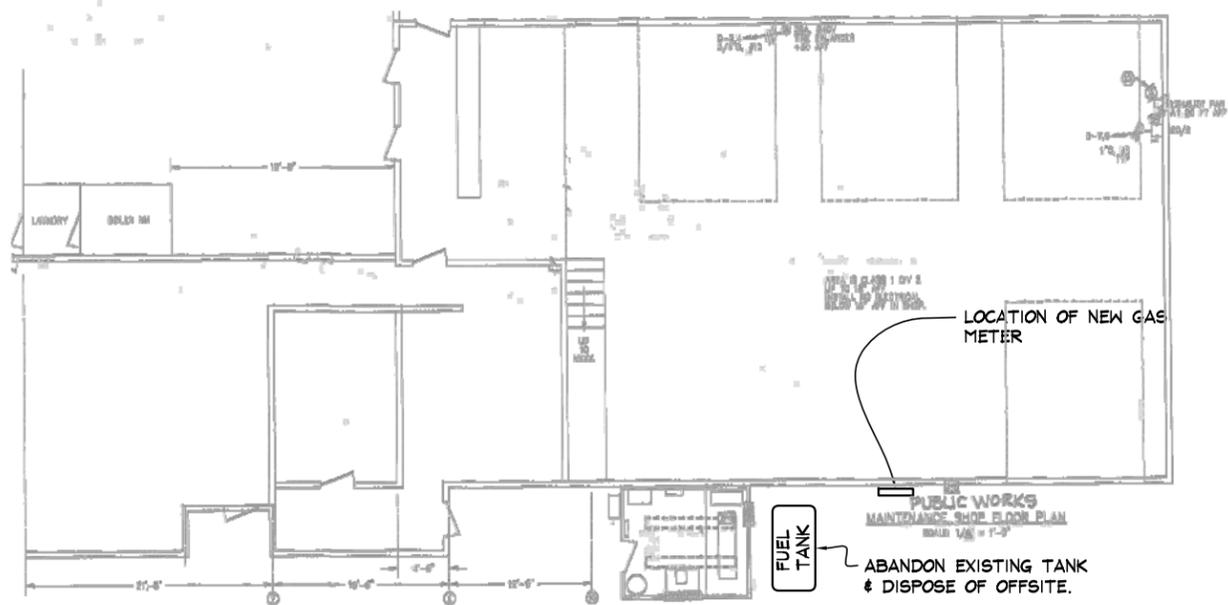
FLOOR PLAN ANIMAL SHELTER

3 ANIMAL SHELTER - PICTURES
SCALE: NTS

1 ANIMAL SHELTER - PLAN
SCALE: 1/8" = 1'-0" (22X34) 1/16" = 1'-0" (11X17)



2 PUBLIC WORKS - PICTURE
SCALE: NTS



2 PUBLIC WORKS - PLAN
SCALE: 1/8" = 1'-0" (22X34) 1/16" = 1'-0" (11X17)



NO.	REVISION	DATE

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HOMER NATURAL GAS CONV. PROJECT - PHASE I
CITY OF HOMER
PUBLIC WORKS BUILDING
TANK DEMOLITION PLAN

PROJECT NO. 1333
DRAWN BY: MJD
CHECKED BY: WJN
DATE: 09/10/13
SCALES: NOTED
HORIZ. NOTED
VERT. NOTED
SHEET **D1**
1 OF 1



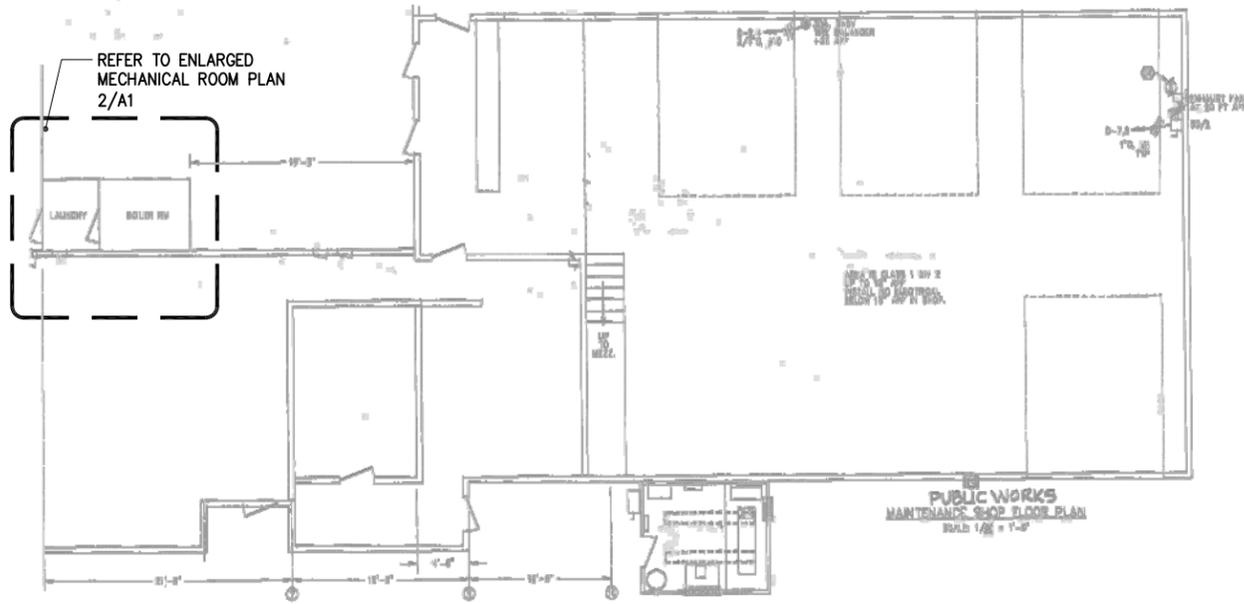
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155 BIDARCA ST
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TEL: (907) 283-3583
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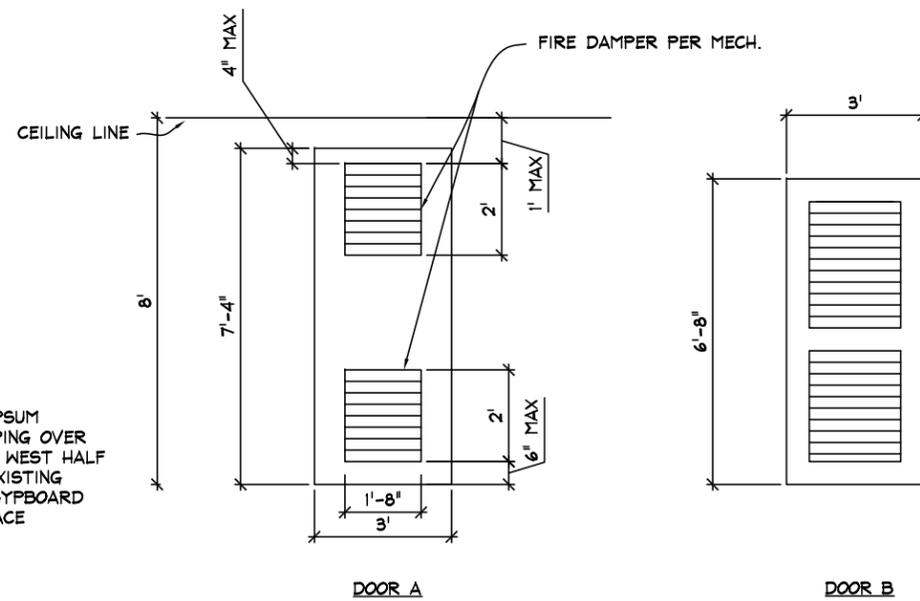
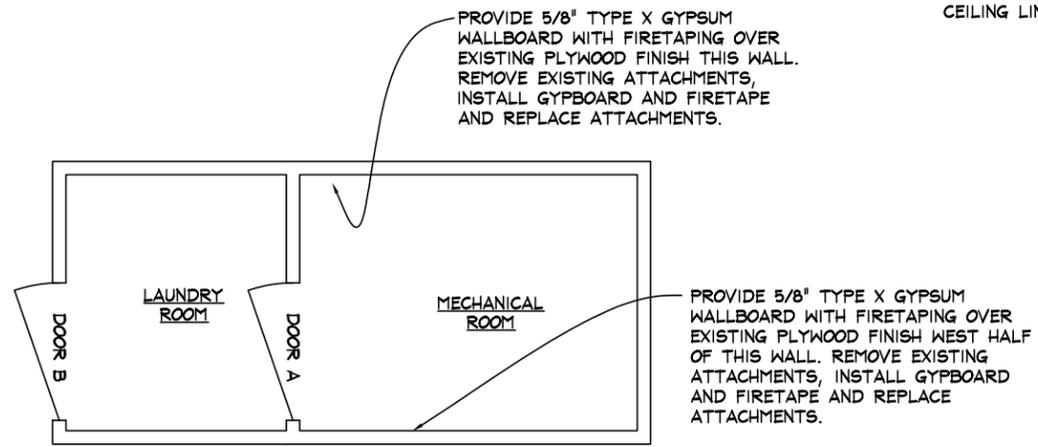


HOMER NATURAL GAS CONV. PROJECT - PHASE I
CITY OF HOMER
PUBLIC WORKS BUILDING
PUBLIC WORKS MECH ROOM IMPROVEMENTS

PROJECT NO. 1333
DRAWN BY: MJD
CHECKED BY: WJN
DATE: 09/10/13
SCALES: NOTED
HORIZ. NOTED
VERT. NOTED
SHEET **A1**
1 OF 1



1 PUBLIC WORKS - PLAN
SCALE: 1/8" = 1'-0" (22X34) 1/16" = 1'-0" (11X17)



DOOR A NOTES:

- 1.) PROVIDE 18 GAUGE 'CURRIES' OR EQUAL COMMERCIAL GRADE, 1 HOUR RATED STEEL DOOR AND FRAME WITH FIRE DAMPERS.
- 2.) CODE REQUIRES TOP DAMPER TO BE WITHIN 12" OF THE CEILING. ROUGH OPENING FOR EXISTING DOOR WILL NEED TO BE ENLARGED TO FIT NEW DOOR. FIELD VERIFY THAT DAMPER LOCATION WILL BE WITHIN 12" OF CEILING

DOOR B NOTES:

- 1.) PROVIDE NEW FULL HEIGHT LOUVERED DOOR IN EXISTING OPENING. LOUVER AREA MUST EXCEED 900 IN²

2 PUBLIC WORKS MECH ROOM
SCALE: 1/2" = 1'-0" (22X34) 1/4" = 1'-0" (11X17)

MECHANICAL SYMBOL LEGEND

PIPING SYMBOLS			HVAC SYMBOLS		
SYMBOL	ABBR.	DESCRIPTION	SYMBOL	ABBR.	DESCRIPTION
	C.I.S.P.	WASTE, CAST IRON SOIL PIPE			NEW DUCTWORK
	V	VENT		S.L.	ACOUSTICALLY LINED DUCT
	CW	COLD WATER			THERMALLY INSULATED DUCT
	HW	HOT WATER			DUCTWORK UP
	HWC	HOT WATER RECIRCULATION			DUCTWORK DOWN
	HWR	HOT WATER RETURN			TURNING VANES
	HWS	HOT WATER SUPPLY			AIR EXTRACTOR
	FOR	FUEL OIL RETURN		S/A	SUPPLY AIR REG., GRILLE OR DIFFUSER
	FOS	FUEL OIL SUPPLY		R/A	RETURN/EXHAUST AIR REG. OR GRILLE
	G	LOW PRESSURE GAS			SUPPLY
					RETURN OR EXHAUST
	A	AIR PIPING			SUPPLY AIR SLOT WITH FLEX DUCT
		DEEP SEAL TRAP			RETURN AIR SLOT
		PIPE ELBOW DOWN			FLEXIBLE DUCT
		PIPE ELBOW UP			FLEXIBLE CONNECTION
		UNION		VD, BD	VOLUME DAMPER
	GV/SOV	GATE VALVE/SHUT-OFF VALVE		FD	FIRE DAMPER
		PLUG VALVE		FSD	FIRE/SMOKE DAMPER
		GAS COCK		MOD	MOTOR OPERATED DAMPER
		GLOBE VALVE			DUCT SIZE
	MOV	MOTOR OPERATED VALVE 2-WAY		HC	HEATING COIL
	MOV	MOTOR OPERATED VALVE 3-WAY		S/A	SUPPLY AIR
	PRV	PRESSURE REDUCING VALVE		R/A	RETURN / RELIEF AIR
	RV	RELIEF VALVE		E/A	EXHAUST AIR
	CV	CHECK VALVE		O/A	OUTSIDE AIR
		BALL VALVE (FULL PORT)		DD	DUCT DETECTOR
		STRAINER			ACCESS PANEL
		THERMOMETER		T'STAT	THERMOSTAT, THERMOSTAT WINS. BASE
		PRESSURE GAGE W/ISOLATION VALVE			STATIC PRESSURE SENSOR
		SOLENOID VALVE			SWITCH
	BV	BALANCING VALVE	ABBREVIATIONS		
		SQUARE HEAD COCK	SYMBOL	ABBR.	DESCRIPTION
		BUTTERFLY VALVE		EAT	ENTERING AIR TEMPERATURE
		FLEX CONNECTION		LAT	LEAVING AIR TEMPERATURE
	WHA	WATER HAMMER ARRESTER (Y=SIZE)		EWT	ENTERING WATER (GLYCOL) TEMPERATURE
		AUTOMATIC FLOW CONTROL		LWT	LEAVING WATER (GLYCOL) TEMPERATURE
	CO	CLEAN-OUT		AFF	ABOVE FINISHED FLOOR
	WCO	WALL CLEAN-OUT		AFG	ABOVE FINISHED GRADE
	FCO	FLOOR CLEAN-OUT		BDD	BACK DRAFT DAMPER
	FD	FLOOR DRAIN		BG	BELOW GRADE
		PIPE ANCHOR		SS	STAINLESS STEEL
		PIPE GUIDE		VTR	VENT THRU ROOF
	MPG	MEDIUM PRESSURE GAS		OADB	OUTSIDE AIR DRY BULB
				AAV	AUTOMATIC AIR VENT
DIFFUSER KEY					
DIFFUSERS, GRILLS AND REGISTERS SYMBOL: 			SYMBOLS DO NOT NECESSARILY APPEAR ON PLANS IN SAME SIZE AND PROPORTION AS SHOWN HERE. PLANS DO NOT NECESSARILY USE ALL OF THE SYMBOLS SHOWN HERE.		

MECHANICAL SPECIFICATIONS

GENERAL:

- THESE DRAWINGS ARE DIAGRAMMATICAL IN NATURE AND DO NOT SHOW ALL FITTINGS AND/OR ACCESSORIES NECESSARY FOR A COMPLETE, FUNCTIONAL AND COORDINATED INSTALLATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THEIR WORK WITH OTHER TRADES AND WITH FIELD CONDITIONS.
- ALL PLUMBING PIPING SHALL BE PER THE UNIFORM PLUMBING CODE, 2009 EDITION AND ALL LOCAL AMENDMENTS.
- ALL MECHANICAL WORK SHALL BE PER THE INTERNATIONAL MECHANICAL CODE, 2009 EDITION AND ALL LOCAL AMENDMENTS.
- ALL PENETRATIONS THROUGH FIRE RATED CONSTRUCTION (FIRE BARRIERS, SHAFTS AND HORIZONTAL ASSEMBLIES) MUST COMPLY WITH IBC CHAPTER 7.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES.
- THE CONTRACTOR SHALL PROVIDE SUBMITTAL DATA ON ALL MECHANICAL SYSTEMS. THIS INFORMATION SHALL BE BOUND IN A THREE RING BINDER, PROPERLY MARKED AND TAGGED. DATA SUBMITTED SHALL BE COMPLETE AND SUBMITTED AT ONE TIME AS PARTIAL SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. SUBMITTALS SHALL BE CLEARLY MARKED TO INDICATE EXACT ITEM TO BE SUPPLIED.
- NO SUBSTITUTION OF MATERIALS WILL BE ALLOWED WITHOUT OWNERS APPROVAL.
- AT THE END OF THE PROJECT PROVIDE THE OWNER WITH THREE COPIES OF AN OPERATION AND MAINTENANCE MANUAL ASSEMBLED SPECIFICALLY FOR THIS PROJECT FOR ALL MECHANICAL EQUIPMENT FURNISHED UNDER THIS CONTRACT. INFORMATION SHALL BE COMPLETE AND SHALL PROVIDE SPECIFICATION, OPERATION AND MAINTENANCE INFORMATION, WARRANTY INFORMATION, AS WELL AS SOURCES OF REPLACEMENT PARTS.
- PROVIDE A COMPLETE SET OF AS-BUILT DRAWING AT THE END OF THE PROJECT. DRAWINGS SHALL SHOW ALL CHANGES MADE TO THE PROJECT DURING CONSTRUCTION. AS-BUILT OF CONTROL DRAWINGS SHALL ALSO BE INCLUDED.
- ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS FOR A PERIOD ON ONE YEAR AFTER ACCEPTANCE OF THE PROJECT BY THE OWNER. THIS SHALL INCLUDE MATERIALS, EQUIPMENT AND WORKMANSHIP. ALL DEFECTS SHALL BE REPLACED OR REPAIRED TO THE OWNERS SATISFACTION.
- PROVIDE MANUFACTURERS RECOMMENDED CLEARANCE AND ACCESS TO ALL EQUIPMENT.
- ALL PIPING, DUCT WORK, AND EQUIPMENT SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH THE SMACNA SEISMIC RESTRAINT MANUAL FOR MECHANICAL SYSTEMS.

PIPING:

- GAS PIPING SHALL BE SCHEDULE 40 STEEL PIPE WITH THREADED FITTINGS.
- GAS VALVES SHALL BE AGA APPROVED. PROVIDE ISOLATION VALVE AT EACH BURNER.

HEATING:

- HEATING EQUIPMENT, AS INDICATED ON THE DRAWINGS, SHALL BE PROVIDED BY THE CITY OF HOMER FOR INSTALLATION BY THE CONTRACTOR AND SHALL BE COMMERCIAL GRADE COMPLETE WITH ALL SAFETIES AND TRIM. FOR INFORMATION ON MODEL ETC., SEE EQUIPMENT SCHEDULES. CONTRACTOR SHALL RECEIVE EQUIPMENT AT THE CITY OF HOMER PUBLIC WORKS DEPARTMENT AND DISTRIBUTE TO THE APPROPRIATE SITE FOR INSTALLATION.

SHEET METAL:

- FIRE DAMPERED DOOR GRILLE SHALL BE KEES MODE "ODG".

INSULATION:

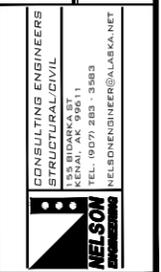
- INSULATE ALL ABS PIPING EXPOSED IN PUBLIC WORKS BUILDING BOILER ROOM WITH 1" FIBERGLASS INSULATION, WITH VAPOR BARRIER JACKET. (FIBERGLASS 25ASJ/SSL-11).

START-UP:

- START UP OF EQUIPMENT SHALL BE DONE BY A QUALIFIED BURNER TECHNICIAN APPROVED BY THE BURNER MANUFACTURER.



NO.	REVISION	DATE
1	REV-1	09/10/13

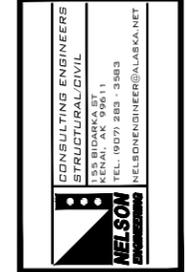


HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 MECHANICAL
 LEGEND, ABBREVIATIONS, SPECIFICATIONS

PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET



NO.	REVISION	DATE
1	REV-1	09/10/13

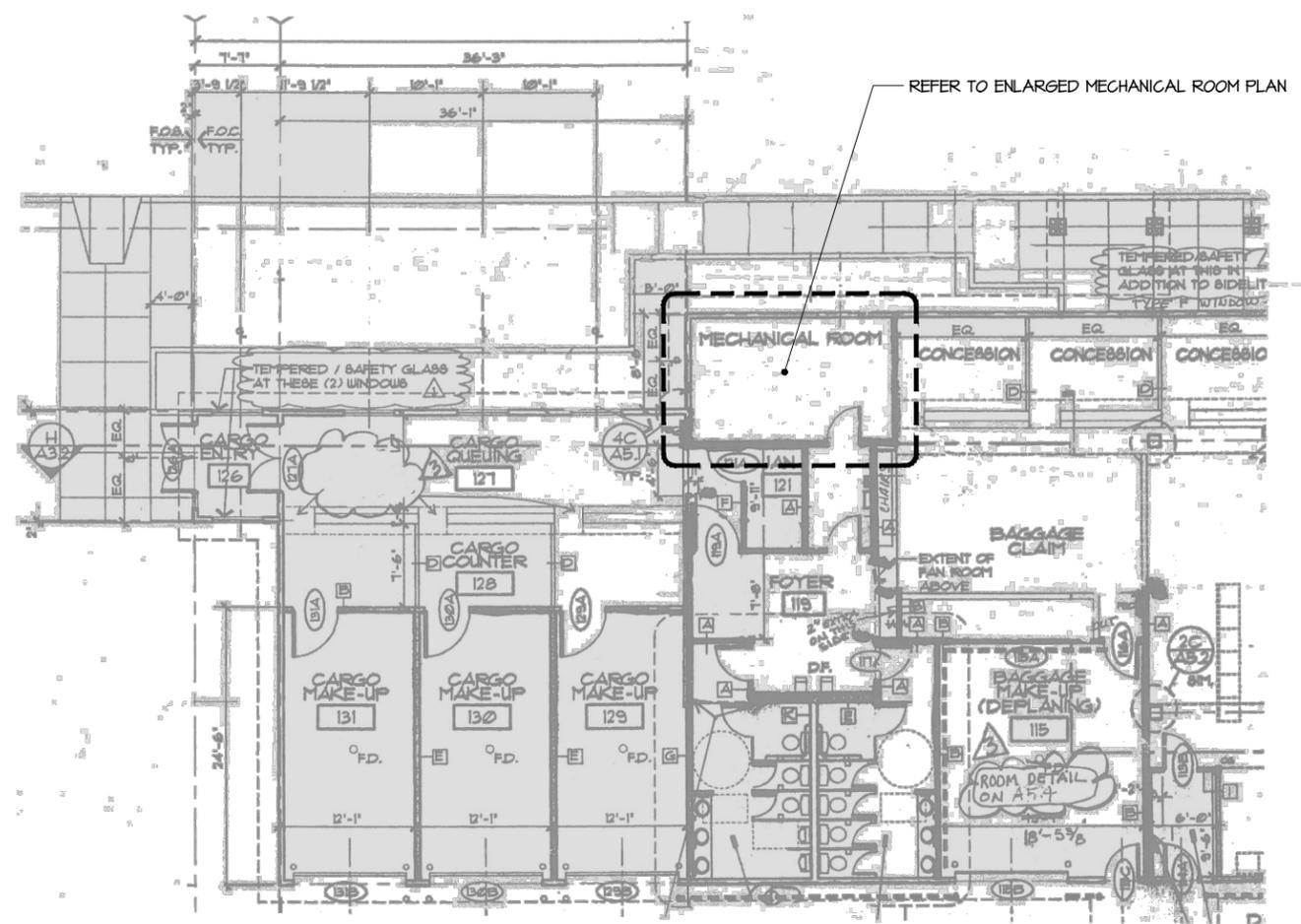


HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 AIRPORT TERMINAL
 PIPING PLAN

PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET
 M2.0 OF ___

SHEET NOTES

- ① REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW DUAL FUEL (NATURAL GAS AND #2 FUEL OIL) BURNER. MODIFY EXISTING FUEL OIL PIPING AS REQUIRED FOR INSTALLATION ON NEW BURNER.
- ② REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW NATURAL GAS BURNER. REMOVE EXISTING FUEL OIL PIPING BACK TO TO EXISTING DAY TANK.
- ③ GAS PIPING INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.
- ④ CONTRACTOR SHALL FIELD VERIFY THE ELECTRICAL SUPPLY TO NEW BURNER HAS A 20 AMP BREAKER AND WIRE SIZE IS MINIMUM OF #12.

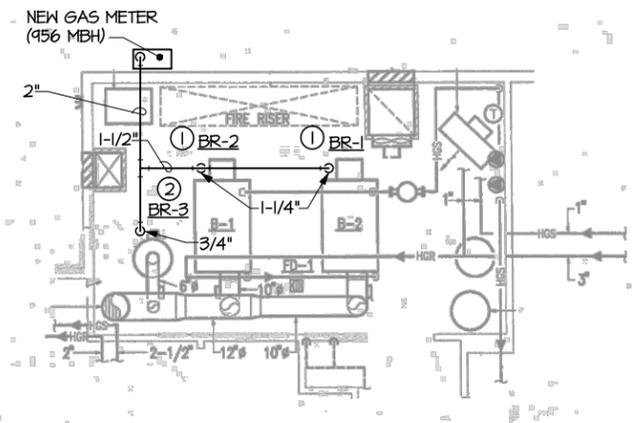


EQUIPMENT LIST - PROVIDED BY THE CITY OF HOMER

- BR-1**
 DUAL FUEL BURNER: RIELLO R-SERIES DUAL FUEL BURNER (NATURAL GAS AND #2 FUEL OIL). 2-STAGE GAS AND 2-STAGE OIL WITH A LOWHIGH FIRING CONFIGURATION. MODEL "RLS-28". 120 VOLT, 1/2 HP, 5.2 AMPS. SET BURNER AT 433 MBH GAS AND 4.0 GPH OIL.
- BR-2**
 DUAL FUEL BURNER: RIELLO R-SERIES DUAL FUEL BURNER (NATURAL GAS AND #2 FUEL OIL). 2-STAGE GAS AND 2-STAGE OIL WITH A LOWHIGH FIRING CONFIGURATION. MODEL "RLS-28". 120 VOLT, 1/2 HP, 5.2 AMPS. SET BURNER AT 433 MBH GAS AND 4.0 GPH OIL.
- BR-3**
 NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-120". 120 VOLT, 2.2 AMPS. SET BURNER AT 90 MBH.

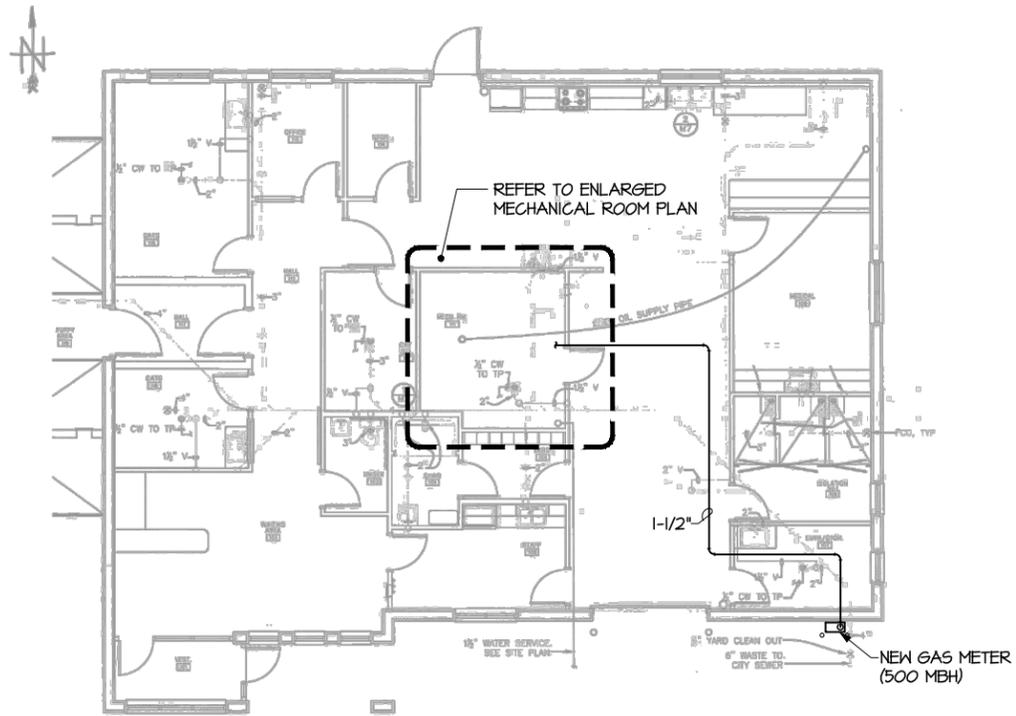
1 AIRPORT TERMINAL - PLAN

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

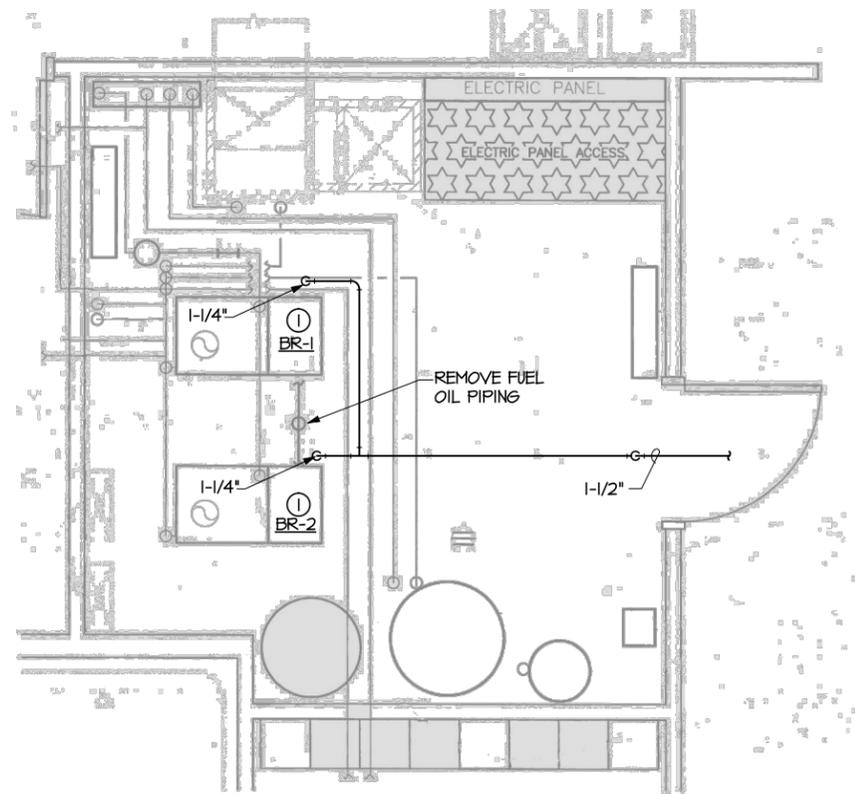


2 ENLARGED MECHANICAL ROOM PLAN

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



1 ANIMAL SHELTER - PLAN
SCALE: 1/8" = 1'-0"



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

SHEET NOTES

- ① REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW NATURAL GAS BURNER. REMOVE EXISTING FUEL OIL PIPING BACK TO TO EXISTING TANK. CAP FUEL LINE CONDUIT INSIDE THE BOILER ROOM.
- ② RUN NEW GAS PIPING IN ATTIC. INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.

EQUIPMENT LIST - PROVIDED BY THE CITY OF HOMER

BR-1

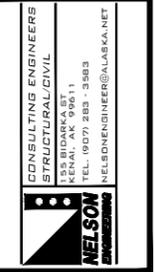
NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-400". 120 VOLT, 2.2 AMPS. SET BURNER AT 250 MBH.

BR-2

NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-400". 120 VOLT, 2.2 AMPS. SET BURNER AT 250 MBH.



NO.	REVISION	DATE
1	REV-1	09/10/13



HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 ANIMAL SHELTER
 PIPING PLAN

PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET
 M2.1 OF ___



NO.	REVISION	DATE
1	REV-1	09/10/13



HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 CITY HALL
 PIPING PLAN

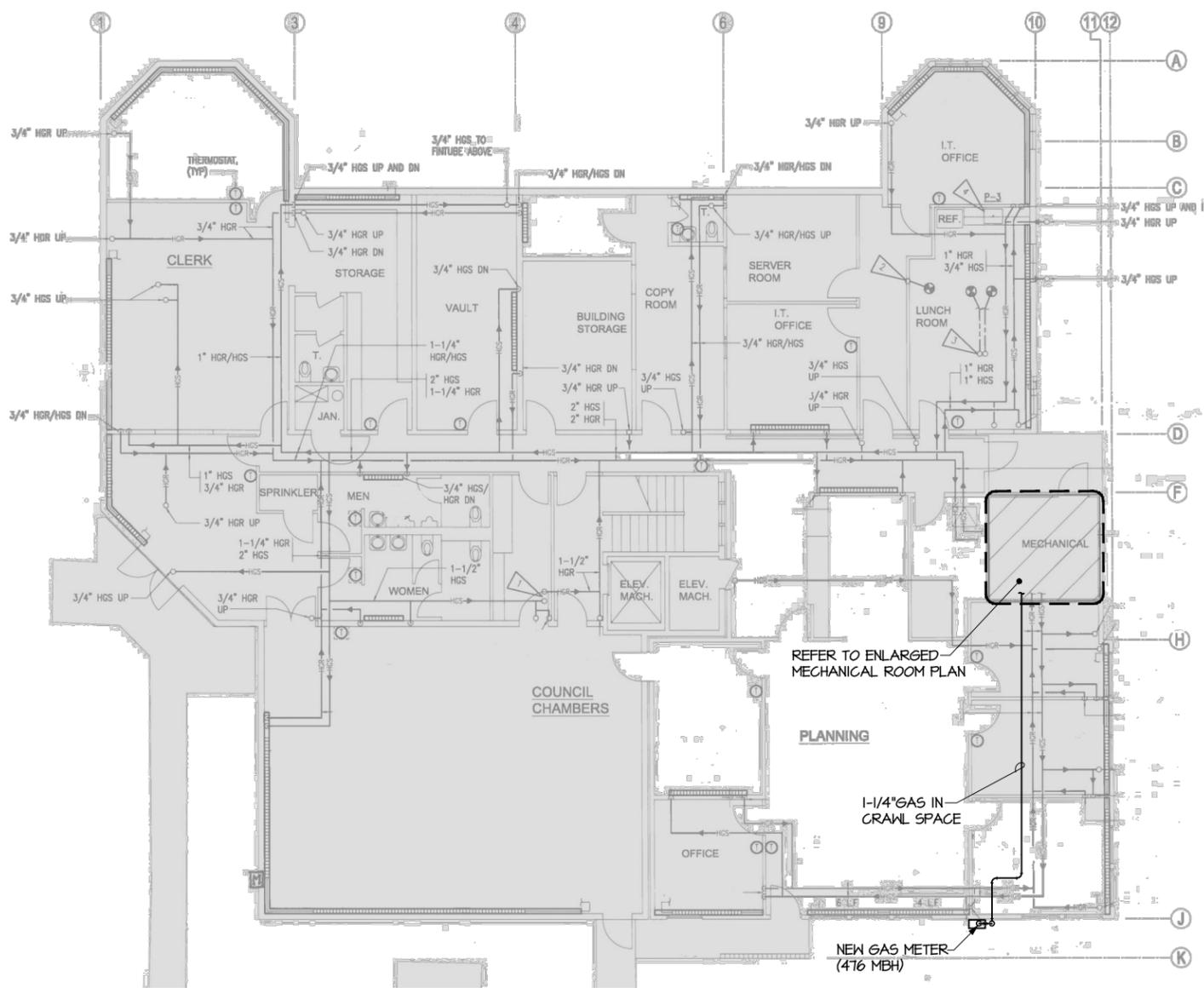
PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET
 M2.2 OF ___

SHEET NOTES

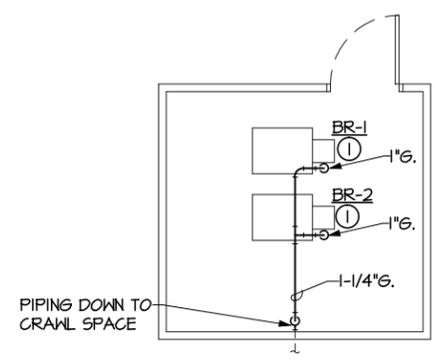
- ① REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW NATURAL GAS BURNER. MODIFY EXISTING FUEL OIL PIPING TO ALLOW FOR EASY RE-INSTALLATION OF OIL BURNER. SEAL ENDS OF FUEL LINES WITH THREADED CAPS OR PLUGS.
- ② RUN NEW GAS PIPING THROUGH CRAWL SPACE. INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.

EQUIPMENT LIST - PROVIDED BY THE CITY OF HOMER

- BR-1**
 NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-400". 120 VOLT, 2.2 AMPS. SET BURNER AT 230 MBH.
- BR-2**
 NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-400". 120 VOLT, 2.2 AMPS. SET BURNER AT 230 MBH.



1 CITY HALL - PLAN
 SCALE: 1/8" = 1'-0"



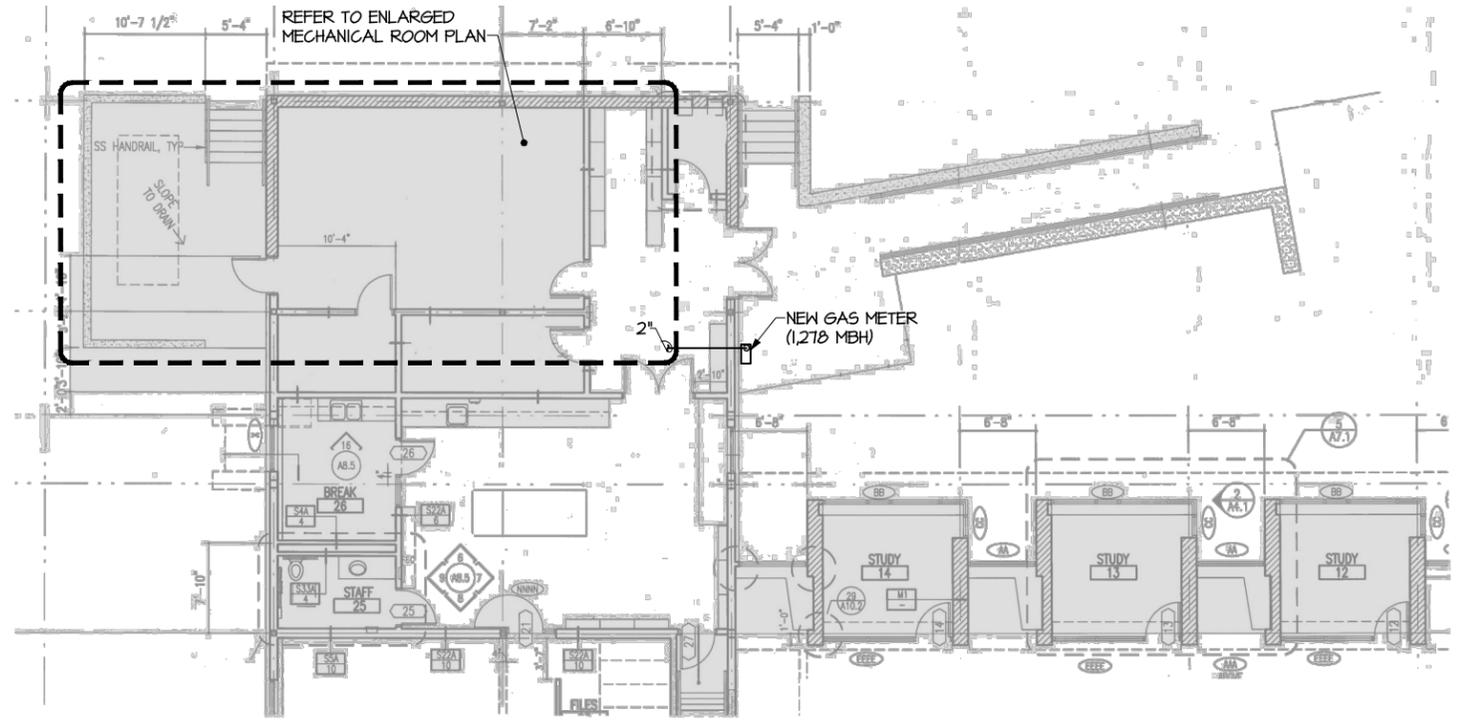
2 ENLARGED MECHANICAL ROOM - PLAN
 SCALE: 1/4" = 1'-0"



SHEET NOTES

- ① REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW DUAL FUEL (NATURAL GAS AND #2 FUEL OIL) BURNER. MODIFY EXISTING FUEL OIL PIPING AS REQUIRED FOR INSTALLATION ON NEW BURNER.
- ② RUN NEW GAS PIPING AT CEILING IN CORRIDOR. INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.
- ③ CONTRACTOR SHALL FIELD VERIFY THE ELECTRICAL SUPPLY TO NEW BURNER HAS A 20 AMP BREAKER AND WIRE SIZE IS MINIMUM OF #12.

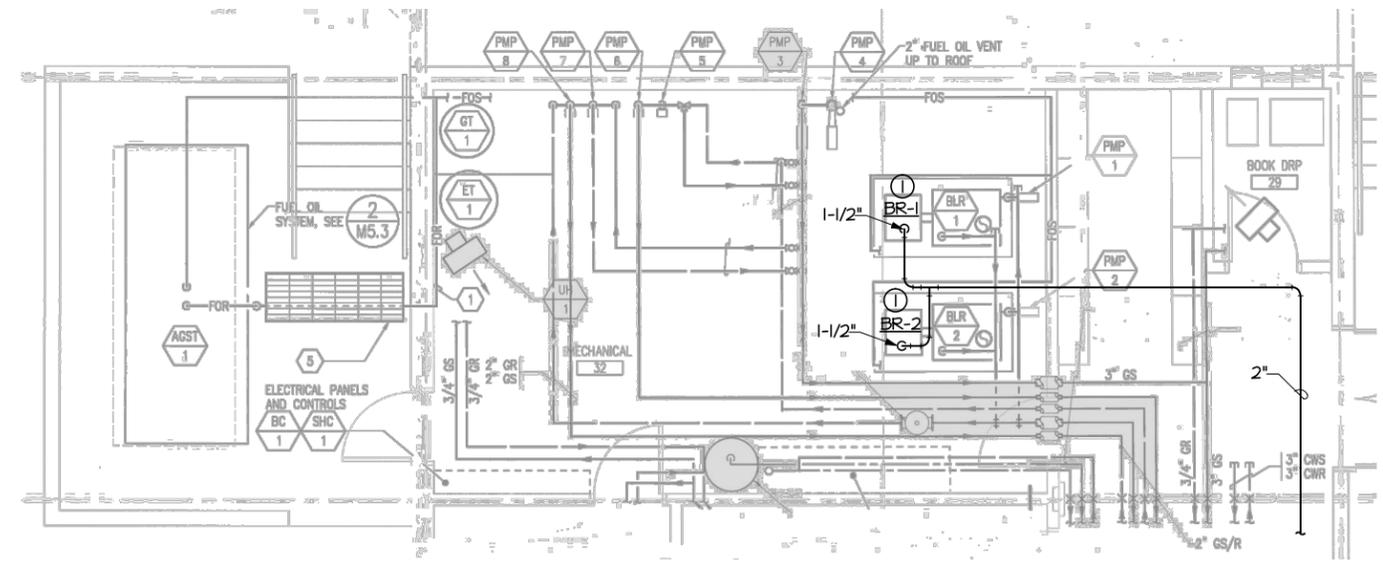
NO.	REVISION	DATE
1	REV-1	09/10/13



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

EQUIPMENT LIST - PROVIDED BY THE CITY OF HOMER

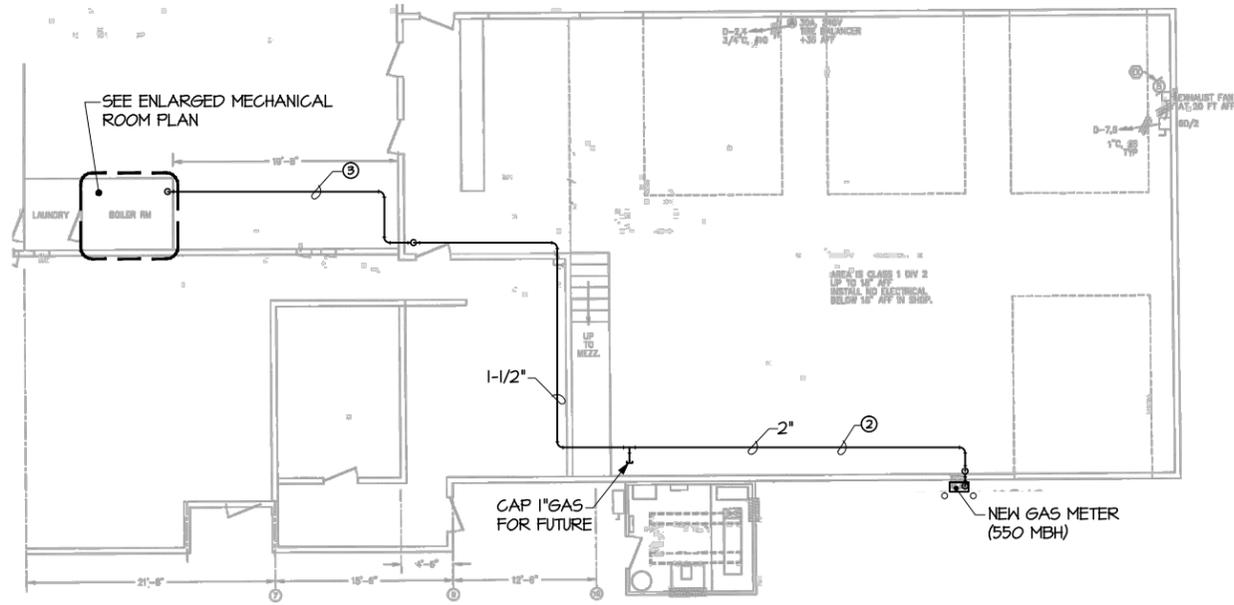
- BR-1**
DUAL FUEL BURNER: RIELLO R-SERIES DUAL FUEL BURNER (NATURAL GAS AND #2 FUEL OIL). 2-STAGE GAS AND 2-STAGE OIL WITH A LOWHIGH FIRING CONFIGURATION. MODEL "RLS-28". 120 VOLT, 1/2 HP, 5.2 AMPS. SET BURNER AT 634 MBH GAS AND 4.5 GPH OIL.
- BR-2**
DUAL FUEL BURNER: RIELLO R-SERIES DUAL FUEL BURNER (NATURAL GAS AND #2 FUEL OIL). 2-STAGE GAS AND 2-STAGE OIL WITH A LOWHIGH FIRING CONFIGURATION. MODEL "RLS-28". 120 VOLT, 1/2 HP, 5.2 AMPS. SET BURNER AT 634 MBH GAS AND 4.5 GPH OIL.



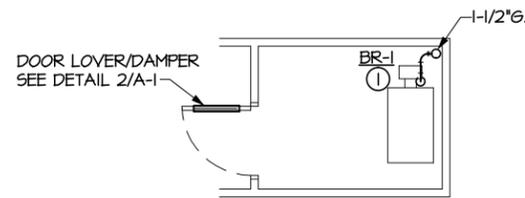
2 ENLARGED MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 LIBRARY
 PIPING PLAN

PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET
 M2.3 OF



1 PUBLIC WORKS MAINTENANCE SHOP - PLAN
SCALE: 1/8" = 1'-0"



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

SHEET NOTES

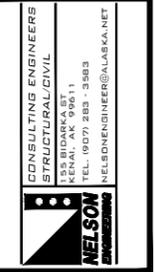
- ① REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW NATURAL GAS BURNER. REMOVE EXISTING FUEL OIL PIPING WITHIN TO EXISTING TANK.
- ② RUN NEW GAS PIPING EXPOSED IN SHOP. INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.
- ③ RUN NEW GAS PIPING IN ATTIC. INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.
- ④ INSULATE ALL EXPOSED ABS PIPING WITHIN BOILER ROOM. (APPROXIMATELY 4 LINEAL FEET, SEE SPECIFICATIONS)

EQUIPMENT LIST - PROVIDED BY THE CITY OF HOMER

BR-1
NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-T50". 120 VOLT, 4.0 AMPS. SET BURNER AT 450 MBH.



NO.	REVISION	DATE
1	REV-1	09/10/13

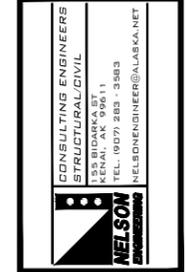


HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 PUBLIC WORKS MAINTENANCE SHOP
 PIPING PLAN

PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET
 M2.4 OF ___



NO.	REVISION	DATE
1	REV-1	09/10/13



HOMER NATURAL GAS CONV. PROJECT - PHASE I
 CITY OF HOMER
 SEWER TREATMENT PLANT
 PIPING PLAN

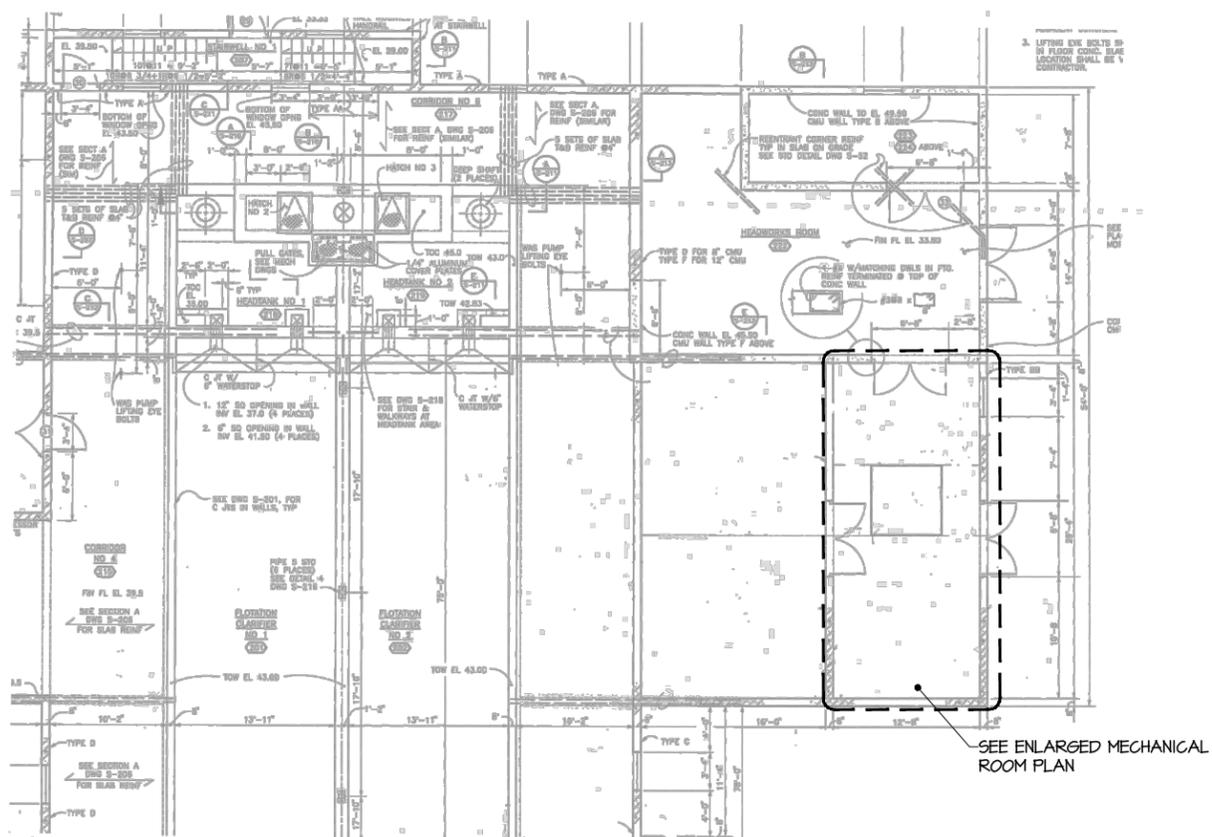
PROJECT NO. 13624
 DRAWN BY: DLJ
 CHECKED BY: TWS
 DATE: 09/10/13
 SCALES: NOTED
 HORIZ. NOTED
 VERT. NOTED
 SHEET
 M2.5 OF ___

SHEET NOTES

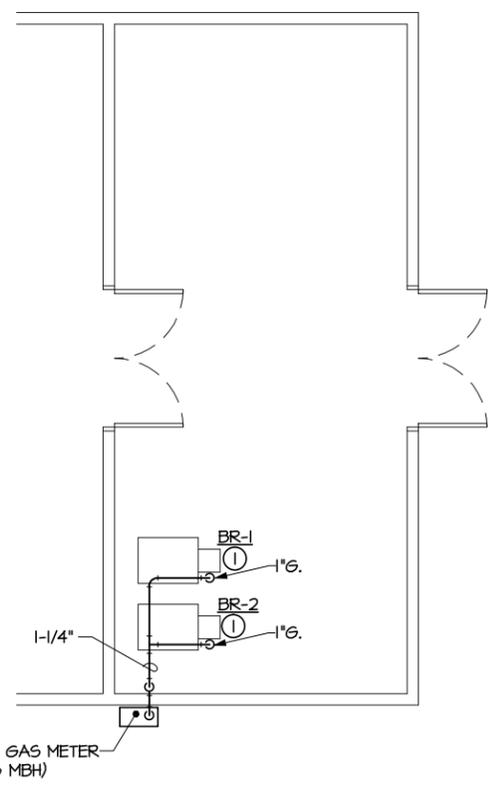
- ① REMOVE AND REPLACE EXISTING OIL BURNER WITH NEW NATURAL GAS BURNER. MODIFY EXISTING FUEL OIL PIPING TO ALLOW FOR EASY RE-INSTALLATION OF OIL BURNER. SEAL ENDS OF FUEL LINES WITH THREADED CAPS OR PLUGS.
- ② GAS PIPING INSTALLATION SHALL BE PER THE UPC/IFGC. REPAIR ANY DAMAGES TO FINISHES DUE TO INSTALLATION OF PIPING. SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEONS.

EQUIPMENT LIST - PROVIDED BY THE CITY OF HOMER

- BR-1**
 NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-400". 120 VOLT, 2.2 AMPS. SET BURNER AT 230 MBH.
- BR-2**
 NATURAL GAS BURNER: RIELLO 40-SERIES FORCED DRAFT BURNER. SINGLE-STAGE GAS MODEL "G-400". 120 VOLT, 2.2 AMPS. SET BURNER AT 230 MBH.



1 SEWER TREATMENT PLANT - PLAN
 SCALE: 1/8" = 1'-0"



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