

AGM-02-0204-PLA-P-0052
N° PLANO:

NOTES:

- SEE 354A3215 FOR P&ID SYMBOL DEFINITION.
- SEE DEVICE SUMMARY (MLI 0414) FOR DEVICE SETTINGS, RATINGS AND RANGES.
- INTERFACE POINT IS A POTENTIAL CLASS-1, DIV-1 SOURCE OF NATURAL GAS. THE INSTALLER MUST ROUTE FG3 SEPERATE FROM ALL OTHER VENTS TO AN AREA FREE FROM IGNITION SOURCES.
- FOLLOW API 14.3/AGA REPORT-3 FOR INSTALLATION AND REQUIREMENTS FOR PIPE LENGTH PRECEDING AND FOLLOWING METER TUBE, MG2-1.
- METER TUBE MG2-1 ORIFICE DIAMETER TO BE DETERMINED BY SUPPLIER USING GE ORDERING SHEET DATA. PRESSURE DROP FROM FG20 TO FG21 SHALL BE 5 PSID [34 KPAD].
- GE SUPPLIED EQUIPMENT UPSTREAM OF FG1, SHALL BE INSTALLED TO MEET EXPLOSION PROOFING REQUIRMENTS OF CLASS-1, GROUP-D, DIVISION-2..
- BLEED VALVE TO BE OPEN AND EQUALIZER VALVES TO BE CLOSED DURING TURBINE OPERATION TO ENSURE ACCURATE GAS FLOW MEASUREMENTS.
- A CONCIAL STRAINER IS TO BE FIELD INSTALLED BETWEEN THE GAS VALVE AND THE FUEL GAS MAINFOLD AT A FLANGED LOCATION (AS CLOSE AS POSSIBLE TO THE MANIFOLD). THE STRAINER IS ORIENTED PER MANUFACTURER'S INSTRUCTIONS. REFER TO OPERATING INSTRUCTIONS (MLI A179) FOR ADMINISTRATIVE GUIDELINES ON REMOVAL OF THE STRAINER TO VERIFY SYSTEM CLEANLINESS. A NEW GASKET MUST BE INSTALED FOLLOWING THE REMOVAL OF THE STRAINER.
- CONSULT THE SERVICE MANUAL FOR WHEN TO CHANGE THE STRAINER BASKET (S).
- THIS NOTE APPLIES TO SYSTEMS WITH THE FUEL GAS STRAINER LOCATED INSIDE OR OUTSIDE OF THE MODULE.

THE FOLLOWING GENERAL GUIDELINES SHOULD BE USED FOR PIPING DESIGN:

- LOCATE THE STRAINER IN A STRAIGHT, HORIZONTAL RUN OF PIPE. PROVIDE A MINIMUM OF 10 PIPE DIAMETERS UPSTREAM OF THE STRAINER INLET WITHOUT BENDS OR REDUCERS.
- AVOID ARRANGEMENTS WHICH PRODUCE A NOZZLE EFFECT AT THE INLET OF THE STRAINER.
- IF THE STRAINER IS LOCATED WITH-IN THE MODULE CONSIDER FG1 TO BE THE STRAINER INLET FOR UPSTREAM PIPING DESIGN CONDITIONS.
- ALLOW 10 INCHES [254mm] OF HEADROOM ABOVE DUPLEX STRAINER FOR BASKET REMOVAL.

- PRESSURE DIFFERENTIAL INDICATOR IS CONNECTED BETWEEN GAS SUPPLY PIPING AND GAS MANIFOLD LOW POINT DRAINS WHILE TEMPORARY CONICAL STRAINER IS IN USE (REFER TO MLI A179).
- LOW POINT DRAIN THREADED BALL VALVE CONNECTION.
- SEE MLI 0302 FOR PURCHASER'S CONNECTION AND INSTALLATION DETAILS OF METERING TUBE.
- FLUID VELOCITY SHALL BE LIMITED TO 200 FEET/SEC (61M/SEC) IN INTERCONNECT PIPING.
- NATURAL GAS LHV 1017.25 BTU/SCF 20917 BTU/LB.

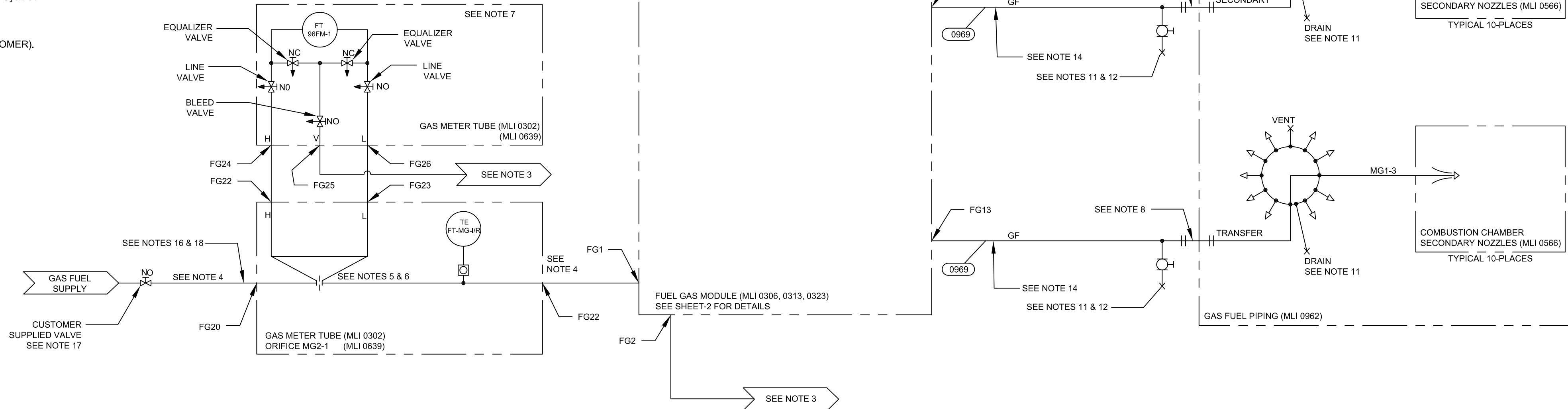
- GAS TEMPERATURES
MAX: 80° F (26.67° C)
MIN: 66° F (18.89° C)

MAXIMUM SUPPLY PRESSURE EXCURSIONS ARE LIMITED TO EITHER 1% PER SECOND RAMP OR 5% INSTANTANEOUS STEP. THE 1% PER SECOND RAMP IS APPLICABLE OVER THE RANGE OF MINIMUM PRESSURE REQUIREMENT TO MAXIMUM OPERATING PRESSURE. THE 5% STEP IS APPLICABLE OVER THE RANGE OF MINIMUM PRESSURE REQUIREMENT TO 95% OF MAXIMUM OPERATING PRESSURE AND WITH MAXIMUM OF 5% STEP CHANGE IN 5 SECONDS

THE MAXIMUM RATE OF GAS TEMPERATURE CHANGE IS 2°F [17°C]/SEC.

- PROVIDE CLASS-VI SHUT OFF.
- PROVIDE 500 PSIG [3447.38 kPa] OVER-PRESSURE PROTECTION UPSTREAM OF METER TUBE.
- GAS FUEL MUST MEET GE141040.
- POTENTIAL SOURCE OF NATURAL GAS AT TEMPERATURE SHOWN IN NOTE16 OR PURGE AIR AT 710°F [377°C] MAX.
- GAS FUEL MODULE VENT FANS WILL BE SHIPPED WITH MLI 0991.

- SYSTEM PARAMETERS AND SPECIFICATIONS ARE BASED ON GE DRAWING 123E2488 (PROVIDED BY CUSTOMER), INCLUDING REQUIREMENTS FOR DUAL FUEL SYSTEMS PER CUSTOMER SCOPE OF WORK.



IMPORTANTE
ESTE PLANO FUE ELABORADO EN AUTOCAD V.2008
CUALQUIER MODIFICACION REALIZADA EN CAMPO
DEBERA SER NOTIFICADO A LA UNIDAD
RESPONSABLE.
QUEDA PROHIBIDO CORREGIR ESTE PLANO SIN
AUTORIZACION DE ESTA UNIDAD.
ALL DIMENSIONS IN BRACKETS [] ARE
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ARE INCHES

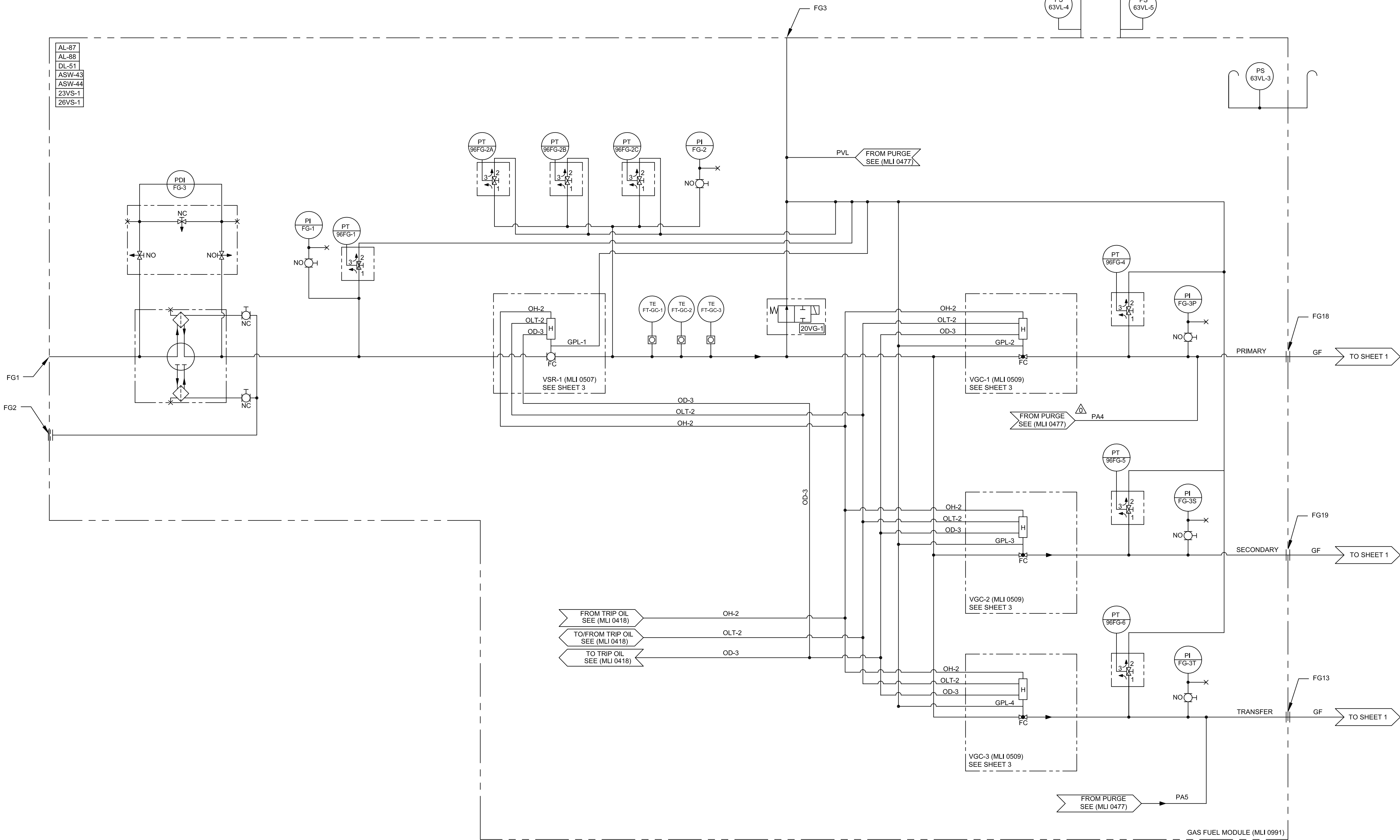
N° DE DOCUMENTO	DESCRIPCIÓN	REV.	FECHA
DOCUMENTOS DE REFERENCIA			
AGM-02-0204-PLA-M-0073	MECHANICAL OUTLINE-GTG	(MLI 0306)	
AGM-02-0204-PLA-P-0054	FUEL PURGE P&ID	(MLI 0477)	
AGM-02-0204-PLA-P-0050	TRIP OIL P&ID	(MLI 0418)	
AGM-02-0204-PLA-I-0046	DEVICE SUMMARY	(MLI 0414)	
AGM-02-0204-PLA-M-0013	DUAL FUEL NOZZLE ASSEMBLY-SECONDARY	(MLI 0566)	
AGM-02-0204-PLA-M-0009	DUAL FUEL NOZZLE ASSEMBLY-PRIMARY	(MLI 0512)	
AGM-02-0204-PLA-M-0003	OUTLINE-GT PACKAGE CONNECTION-PIPING	(MLI 0313)	

PROYECTO N°: 409-2956-1		REV:	
CALCULO: REVISADO: C. Brown		ESCALA: FECHA: 14/07/11	
DIBUJO: S. Boerckel		DISK N°	
APROBADO: T. Koontz		ESC./PLOTEO:	
ARCHIVO:		APROBADO: M. Monticelli	
FABRICANTE		O/C:	

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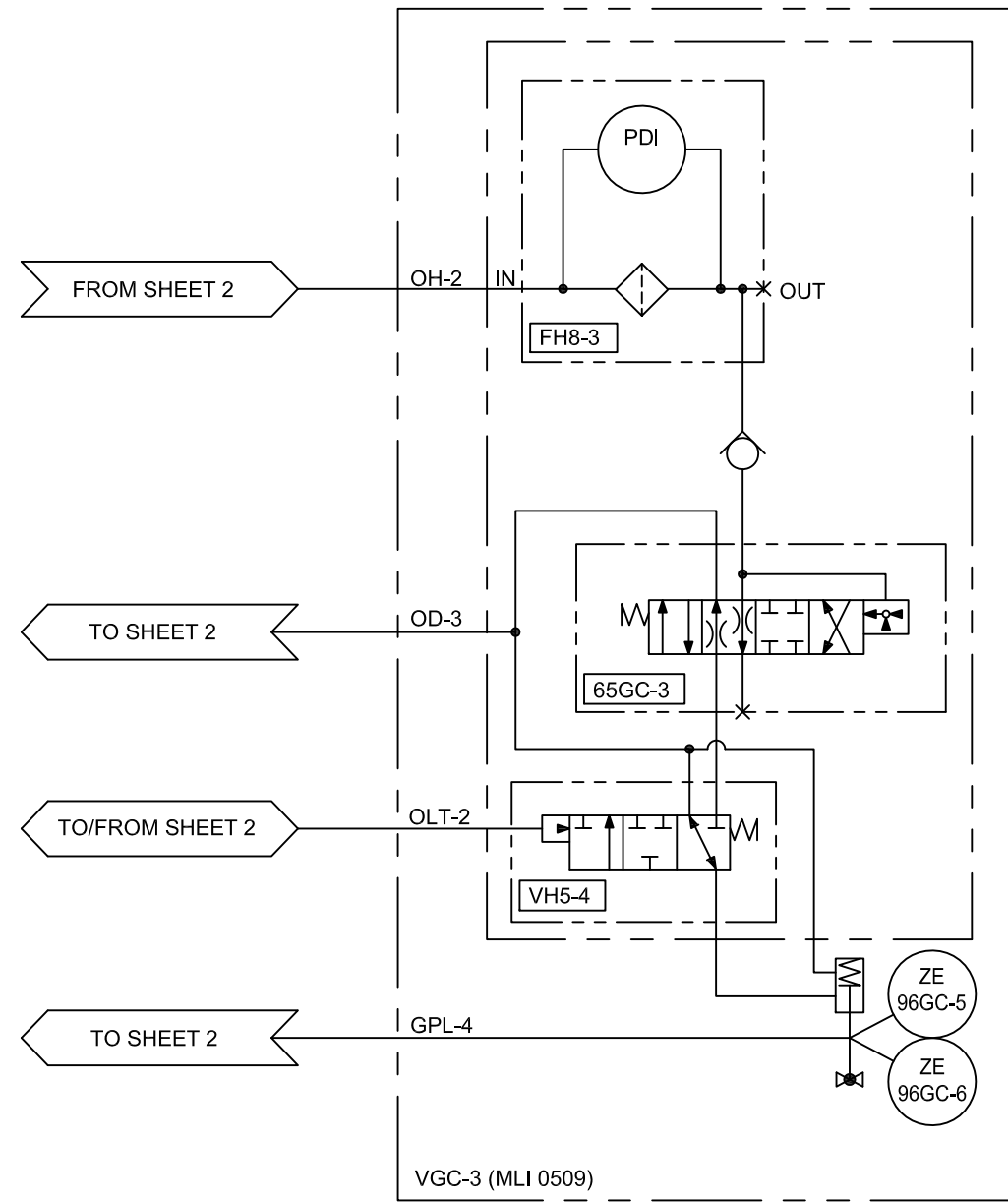
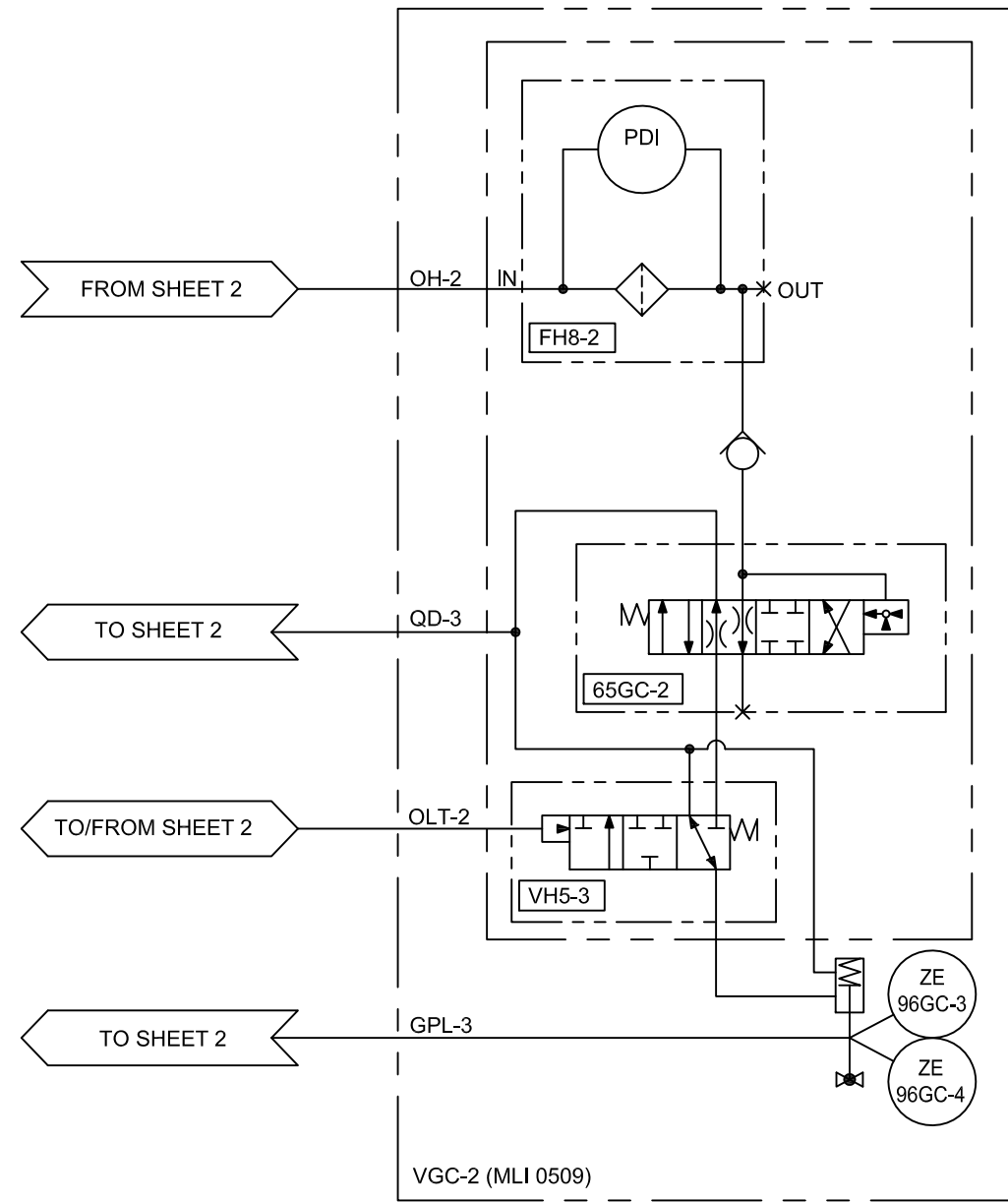
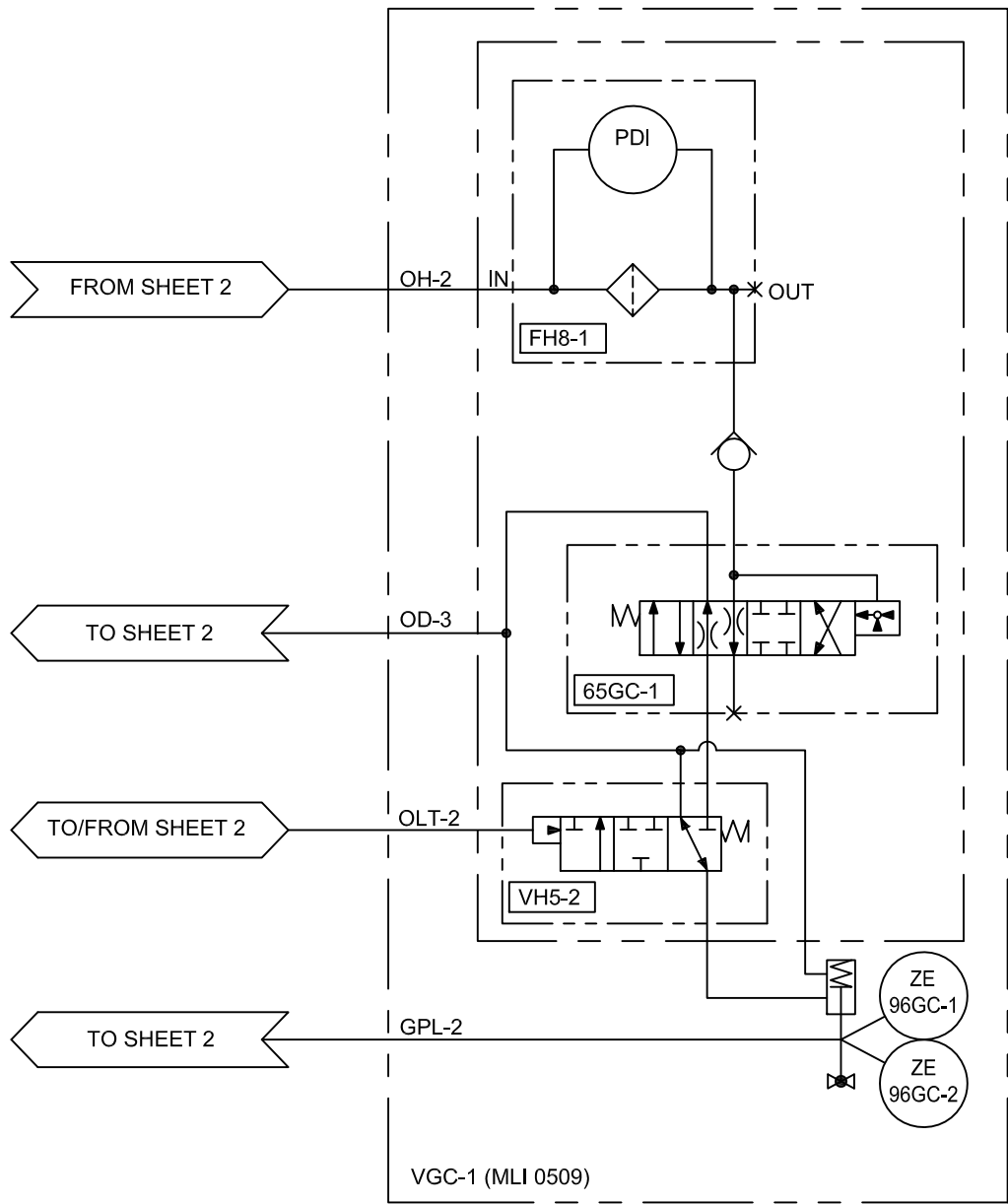
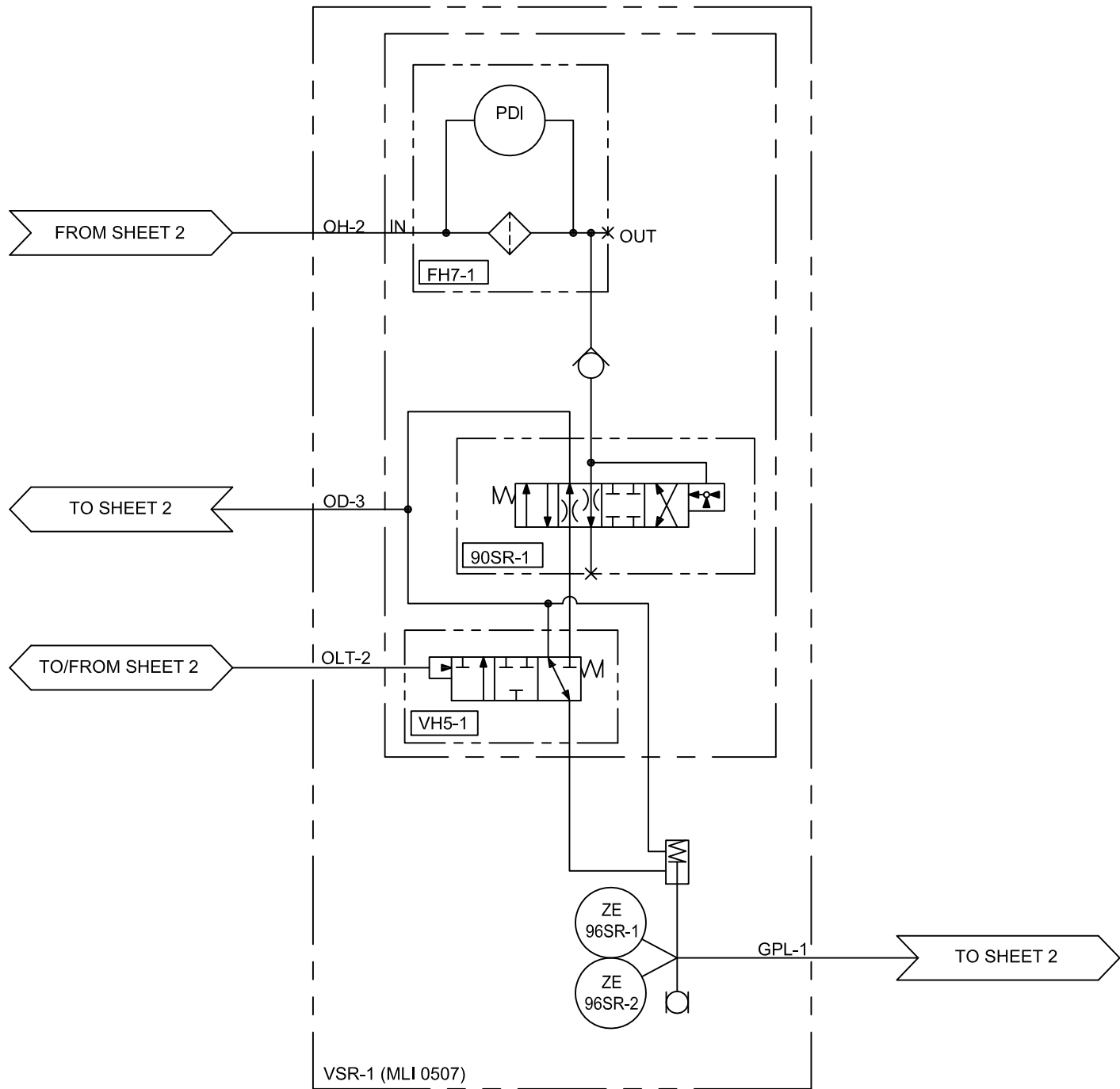
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CALCULO:	PROYECTO:	ESCALA:	PLANO N°:
REVISADO: C. Brown	CALCULO:	FECHA:	14/07/11
DIBUJO: S. Boerckel	REVISADO: J. Castillo	DISK N°	
APROBADO: T. Koontz	APROBADO: M. Monticelli	ESC./PLOTEO:	
ARCHIVO:	ARCHIVO:	PAGINA:	2 DE 4

REF.	FABRICANTE	FABRICANTE	O/C:

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LINIA DE CORTE DE COPIA

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REV.	FECHA	REVISIONES O MODIFICACIONES	DIBUJO	REVISO	APROBO
1	14/07/11	ISSUED FOR CONSTRUCTION; SEE NOTE 22 SHEET-1	SAB	CB	TK

REF. FABRICANTE	FABRICANTE	O/C:
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N° DE DOCUMENTO	DESCRIPCION	REV. FECHA
DOCUMENTOS DE REFERENCIA		
DERWICK	ProEnergy	CORPOELEC
Electricidad de Caracas		
AGENCIA NACIONAL DE INGENIERIA Y PROYECTOS		
SENECA		
AMPLIACIÓN DE LA CAPACIDAD DE GENERACIÓN Y TRANSPORTE DE ELECTRICIDAD EN LA ISLA DE MARGARITA		
FUEL GAS P&ID		
DUAL FUEL MOD. UNITS 298034 & 298035		
(MLI 0422)		
PROYECTO N°:	REV:	PLANO N°:
409-2956-1		AGM-02-0204-PLA-P-0052
CALCULO:	PROYECTO:	ESCALA:
REVISADO: C. Brown	FECHA: 14/07/11	NONE
DIBUJO: S. Boerckel	DISK: N°	
APROBADO: T. Koontz	ESC./PLOTED:	
ARCHIVO:	APROBADO: M. Monticelli	ARCHIVO:
PAGINA: 3	DE: 4	REV: 0

