
DESCRIPTION	0'-8 5/8" O.D. x 5'-6 1/2" F.F.		01
NO. REQUIRED			
CAPACITY	147 CU FT		
SERVICE	2ND STAGE SCRUBBER		
ESTIMATED VESSEL WEIGHTS	EMPTY	356 LBS	
	OPERATING	430 LBS	
☒ THEORETICAL ☐ AS-BUILT			

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ATA	TESTING	MATERIALS
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ING

PAINTING & COA

VESSEL DATA SHEET

GENERAL NOTES

1. VESSEL DESIGNED IN NISKUL AB.
2. VESSEL FABRICATED IN NISKUL AB.
3. THESE DRAWINGS HAVE BEEN REVIEWED FOR MECHANICAL STRENGTH AND COMPLIANCE ASME SECTION VIII, DIVISION 1, LATEST EDITION AND ADDENDA AND THE APPLICABLE CONTRACT PROCESS CONSIDERATIONS BEYOND THOSE SPECIFIED BY C.L.M. REMAIN THE RESPONSIBILITY OF THE USER OR THE USER'S DESIGNATED AGENT.

DESIGN NOTES

1. IT IS ASSUMED THAT CYCLIC AND DYNAMIC REACTIONS DUE TO PRESSURE OR THERMAL VARIATIONS OF FROM EQUIPMENT MOUNTED ON THE VESSEL ARE NOT GOVERNING DESIGN CONSIDERATIONS (REF. UG-22).
2. IT IS THE RESPONSIBILITY OF THE USER OF THIS VESSEL TO ENSURE THAT THIS VESSEL IS EQUIPPED WITH PRESSURE RELIEF DEVICES IN ACCORDANCE WITH UG-125.
3. THESE DRAWINGS ARE IN CONFORMANCE WITH DESIGN CALCULATIONS PE-06-451 REV. 0.

PROCESS NOTES

GAS FLOW RATE = 9.6 MMSCF/D
GAS M.W./G.S. = 0.6647 S.G.
GAS COMPOSITION = SWEET
WATER S.G. = 1.0
SLUG/SURGE CAPACITY = NONE
PRESSURE DROP = 1.5 PSIG ACROSS VESSEL (AT WORST CASE DESIGN).

MATERIAL NOTES

1. MATERIALS AND MATERIAL TRACEABILITY ARE IN ACCORDANCE WITH ASME SECTION VIII, DIV. 1, LATEST EDITION AND ADDENDA.
2. PURCHASING TO VERIFY THAT ALL FITTINGS INCLUDING ELBOWS, TEES AND FLANGES ARE REGISTERED WITH THE JURISDICTION.

FABRICATION NOTES

- ALL TEMPORARY ATTACHMENTS SHALL BE REMOVED BY OXY-FUEL/PLASMA ARC. THE PRACTICE OF HAMMERING TO BREAK OFF TEMPORARY ATTACHMENT IS PROHIBITED. WELDER IDENTIFICATION STAMPS SHALL BE "LOW STRESS" TYPE. PLATE MATERIAL FOR WHIRLYGIG TO BE SA-516-70. PAW IS NOT PERMITTED ON THE PRESSURE BOUNDARY. SHOP TRAIL FIT ALL APPURTENANCES PRIOR TO PAINTING OR COATING.

Q.A. NOTES

7. FABRICATION TOLERANCES AS PER CURRENT EDITION OF ASME SECTION VII, DIV. 1, 2004 EDITION, 2005 ADDENDA
8. HYDROSTATIC TEST SHALL BE PERFORMED IN THE HORIZONTAL POSITION AND IN ACCORDANCE WITH THE
ASME SECTION VIII, DIV. 1, 2004 EDITION, 2005 ADDENDA HYDROSTATIC TEST PROCEDURE.
9. CHART RECORDER REQUIRED FOR HYDROTEST DURATION OF 4 HRS.
10. MIN. TEMPERATURE OF HYDROTEST WATER = 70°F.

PAINTING & COATING NOTES

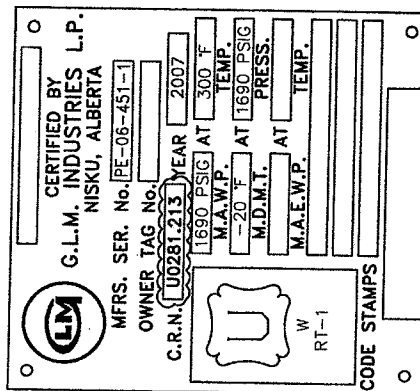
- OIL INTERVALS AFTER BLAST AND PRIME USING LINSEED OIL VESSEL TO BE DRAINED PRIOR TO SHIPMENT**

SHIPPING NOTES

- OPENINGS SHALL BE BLANKED WITH TEMPORARY SHIPPING COVERS.
COPY OF COMPLETED U1-A FORM MUST SHIP WITH VESSEL.

DESCRIPTION NO. REQUIRED CAPACITY	0'-6 5/8" 0.0 x 4'-7 3/8" F/F	3 RD STAGE LUBE OIL SCRAMBLER EMPTY	0.87 CU FT
SERVICE	ESTIMATED VESSEL WEIGHTS	OPERATING	260 LBS 502 LBS
DESIGN CODES	CSA-B55-05 ASME SECTION VIII DIV 1 2004 EDITION 2005 ADDENDUM		
DESIGN DATA	VESSEL IS REGISTERED IN THE PROVINCE OF ALBERTA, SASKATCHEWAN & B.C. AND IS SUBJECT TO THE U.S. STAMP REQUIREMENTS SPECIFICATIONS		
DESIGN INT. PRESS	TEMP	DESIGN EXT. PRESS	TEMP
1690 PSIG	300 °F MAX	1690 PSIG	300 °F MAX
MONIT	OPERATING PRESS	TEMP	MONIT
-20 °F	1690 PSIG	910 PSIG	1107 °F
SPECIFIC GRAVITY	1.0	SEE TESTING	NONH
RADIATION	POST WELD HEAT TREAT	JOINT EFFICIENCY	SHELL= 1.0 HEAD= 1.0
1.0	1.0	CORROSION ALLOWANCE	SHELL = 1/16" HEAD = 1/16" FITTINGS = 1/16"
WIND LOADS	SNOW LOADS	WIND LOADS	SNOW LOADS
N/A	N/A	N/A	N/A
WIND (VELOCITY)	SNOW (WEIGHT)	WIND (VELOCITY)	SNOW (WEIGHT)
1690 PSIG @ 70 °F	1690 PSIG @ 300 °F	1690 PSIG @ 70 °F	1690 PSIG @ 300 °F
IMPACT TEST EXEMPTION	FOUNDATIONS	IMPACT TEST EXEMPTION	FOUNDATIONS
UNKNOWN (BT OTHERS)	UNKNOWN (BT OTHERS)	UNKNOWN (BT OTHERS)	UNKNOWN (BT OTHERS)
SHELL	SA-108-B SEAMLESS PIPE	SHELL	SA-108-B SEAMLESS PIPE
BOOT HEAD	SA-108-B SEAMLESS PIPE	BOOT HEAD	SA-108-B SEAMLESS PIPE
HEAD(S)	SA-23A-WPB	HEAD(S)	SA-23A-WPB
N/A	N/A	N/A	N/A
LEGS/ SADDLE/ SHORT	NOZZLE	LEGS/ SADDLE/ SHORT	NOZZLE
N/A	N/A	N/A	N/A
MANWAY	SA-108-B SEAMLESS PIPE	MANWAY	SA-108-B SEAMLESS PIPE
N/A	N/A	N/A	N/A
REINFORCING PAD(S)	FLANGE	REINFORCING PAD(S)	FLANGE
N/A	SA-105	N/A	SA-105
PIPE	N/A	PIPE	N/A
FITTINGS	SA-23A-WPB	FITTINGS	SA-23A-WPB
SA-105	SA-105	SA-105	SA-105
COUPLINGS/THREADED	SA-105	COUPLINGS/THREADED	SA-105
N/A	N/A	N/A	N/A
WELDING	SA-105	WELDING	SA-105
STRUCTURAL	SA-105	STRUCTURAL	SA-105
OTHER	SA-105	OTHER	SA-105
PRODUCTION IMPACTS REQUIRED ?	NO	PRODUCTION IMPACTS REQUIRED ?	NO
RADIOGRAPHY: FULL RADIOGRAPHY PER UW-11(G)		RADIOGRAPHY: FULL RADIOGRAPHY PER UW-11(G)	
TESTING		TESTING	
HYDROTEST PRESS. 2187 PSIG	HYDROTEST RECORD MOVES TWO	HYDROTEST PRESS. 2187 PSIG	HYDROTEST RECORD MOVES TWO
SNR #	(INT. USE ONLY)	SNR #	(INT. USE ONLY)
EXTERNAL PREPARATION AND COATING		EXTERNAL PREPARATION AND COATING	
1. EXTERIOR OF SHELL, HEAD, WELDS & STRUCTURALS TO BE WELDED.		1. EXTERIOR OF SHELL, HEAD, WELDS & STRUCTURALS TO BE WELDED.	
-COMMERCIAL BLAST TO SSPC-SP6 USING SIL 7		-COMMERCIAL BLAST TO SSPC-SP6 USING SIL 7	
-(1) COAT OF SHOP PRIMER		-(1) COAT OF SHOP PRIMER	
(COLOR: GREY)		(COLOR: GREY)	
INTERNAL PREPARATION AND COATING		INTERNAL PREPARATION AND COATING	
-SEE PAINT NOTE #1		-SEE PAINT NOTE #1	
INSULATION		INSULATION	
-N/A		-N/A	
SPECIAL		SPECIAL	
-N/A		-N/A	

SRT. NO.	DESCRIPTION	REV. NO.	REVISION DATE	CONSTRUCTION RELEASE DATE
1	VESSEL DATA	1	05/14/07	01/11/07
2	GENERAL ARRANGEMENT	0		01/11/07
3	VESSEL & INTERNAL DETAILS	0		01/11/07



NAMEPLATE STAMPING DETAIL
(STAMPING TO BE 5/32" MIN.)

NO.	1	JOY CLASSIFICATION # 4483	PURCHASE ORDER # MP 503330	INVOICE NUMBER: PE-08-451-1-1	REV. 1
DATE	02/14/87				
DETAIL	DETAILED				
BY	W				
APP'D	186				
					
G.L.M. INDUSTRIES L.P. 8504 AL CALABY, 48 BATTERSEA, 5X CAMDISE, 48 GRANDE PRUEBE, 48					
ORDERED BY D. UONG DATE: 01/02/87 SHIP DATE: 01/11/87		ORDERED BY C. SAMM CONSTRUCTION BY & DATE: 01/11/87		DESCRIPTION	
TOLERANCES: 1/16" 3/32" 1/8" 1/4" 1/2" 1" 2" 4" 8" 16" 32" 64" 128" 256" 512" 1024" 2048" 4096" 8192" 16384" 32768" 65536" 131072" 262144" 524288" 1048576" 2097152" 4194304" 8388608" 16777216" 33554432" 67108864" 134217728" 268435456" 536870912" 1073741824" 2147483648" 4294967296" 8589934592" 17179869184" 34359738368" 68719476736" 137438953472" 274877906944" 549755813888" 1099511627776" 2199023255552" 4398046511104" 8796093022208" 17592186044416" 35184372088832" 70368744177664" 140737488355328" 281474976710656" 562949953421312" 1125899906842624" 2251799813685248" 4503599627370496" 9007199254740992" 18014398509481984" 36028797018963968" 72057594037927936" 144115188075855872" 288230376151711744" 576460752303423488" 1152921504606846976" 2305843009213693952" 4611686018427387904" 9223372036854775808" 18446744073709551616" 36893488147419103232" 73786976294838206464" 147573952589676412928" 295147905179352825856" 590295810358705651712" 1180591620717411303424" 2361183241434822606848" 4722366482869645213696" 9444732965739290427392" 18889465931478580854784" 37778931862957161709568" 75557863725914323419136" 151115727451828646838272" 302231454903657293674544" 604462909807314587349088" 1208925819614629174698176" 2417851639229258349396352" 4835703278458516698792672" 9671406556917033397585344" 19342813113834066795170688" 38685626227668133590341376" 77371252455336267180682752" 154742504910672534361365504" 3094850098213450687227311008" 6189700196426901374454622016" 12379400392853802748909244032" 24758800785707605497818488064" 49517601571415210995636976128" 99035203142830421991273952256" 198070406285660843982547904512" 396140812571321687965095809024" 792281625142643375930191618048" 1584563250285286751860383236096" 3169126500570573503720766472192" 6338253001141147007441532944384" 12676506002282294014883065888672" 2535301200456458802976613177344" 5070602400912917605953226354688" 10141204801825835211906452709376" 20282409603651670423812905418752" 40564819207303340847625810837504" 81129638414606681695251621675008" 16225927682921336390453243350016" 32451855365842672780906486700032" 64903710731685345561812973400064" 129807421463370711133625946800128" 259614842926741422267251893600256" 519229685853482844534503787200512" 1038459371706965689069007574401024" 2076918743413931378138015148802048" 4153837486827862756276030297604096" 8307674973655725512552060595208192" 16615349947311451025104121910416384" 33230699894622902050208243820832768" 66461399789245804100416487641665536" 13292279957849160820083297528331072" 2658455991569832164016659505662144" 53169119831396643280333190113324288" 10633823966279328656066638022664576" 21267647932558657312133276045329152" 42535295865117314624266552090658304" 85070591730234629248533104181316608" 170141183460469258497066208362633216" 340282366920938516994132416725266432" 680564733841877033988264833450532672" 1361129467683754067976529666901065344" 2722258935367508135953059333802130688" 5444517870735016271906118667604261376" 10889035741470032543812237335208522752" 2177807148294006508762447467041704544" 4355614296588013017524894934083409088" 8711228593176026035049789868166818176" 17422457186352052070099579736336337536" 34844914372704104140199159472672675072" 69689828745408208280398318945345350144" 139379657490816416560796637890690700288" 278759314981632833121593277781381400576" 5575186299632656662431865555627601152" 111503725992653133248637311112552022272" 22300745198530626649727462222510444544" 44601490397061253299454924445020889088" 89202980794122506598909848890041777936" 178405961588245013197819697780083555776" 356811923176490026395639395560167111552" 713623846352980052791278791120334223104" 142724769270596010					

NOZZLE SCHEDULE										FILLET SIZE		
NK#	QTY.	SIZE	CLASS	TYPE	L.S.P.	S.P.	SERVICE/DESCRIPT	OPTION		A	B	C
N1	1	3"	900	RFWN	N/A	N/A	FLANGED INLET					
N2	1	3"	900	RFWN	N/A	N/A	FLANGED GAS CONNECTION					
C3A	1	3/4"	3000	TOL	FULL	SET ON	LEVEL GAUGE CONNECTION			1/4"		
C3B	1	3/4"	3000	TOL	FULL	SET ON	LEVEL GAUGE CONNECTION			1/4"		
C4	1	2"	3000	HNPT	FULL	SET ON	FLUSH LIQUID OUTLET/FLUSH CONN.			3/8"		
C5	1	2"	3000	TOL	FULL	SET ON	LEVEL CONTROL CONNECTION			3/8"		
C6	1	2"	3000	TOL	FULL	SET ON	HIGH LEVEL SHUTDOWN CONN.			1/4"		
WJ	1	3"	N/A	N/A	N/A	N/A	GLM. STD. WHEEL					
BT	1	N/A	N/A	N/A	N/A	N/A	GLM. STD. WHEEL					
NP	1	N/A	N/A	N/A	N/A	N/A	GLM. STD. ASME R-1 PLATE W/ BRACKET					

NOTE:
1. INSTRUMENTATION & VENTING BY OTHERS.

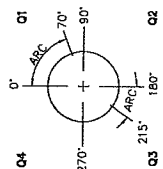
WELD TYPE	WELD SYMBOL	WELD SPECIFICATION	WELD PROCEDURE
SHR. ORC. OR VERT. SEAM BUTT WELD	C.P. FULL 1/8 60°	C.S. W/ FUG TO PRE/PPC TO PRE WELD	PROCEDURE # 41-1-144A
THREADED WELD (SET ON)	C3A C3B C5 C6	THREADED WELD (SET ON)	PROCEDURE # 1-1-173A
CPG WELD (W/6 INT. PROL.) NAME PLATE BRACKET TO SHELL WELD	C4	CPG WELD (W/6 INT. PROL.) NAME PLATE BRACKET TO SHELL WELD	PROCEDURE # 1-1-173A
MISC. C.S. TO C.S. WELD	WU	MISC. C.S. TO C.S. WELD	PROCEDURE # 1-1-140A R1
C.S. PLATE TO SHELL & W/ WELD	WU	C.S. PLATE TO SHELL & W/ WELD	PROCEDURE # 1-1-140A R1

GENERAL WELDING NOTES:

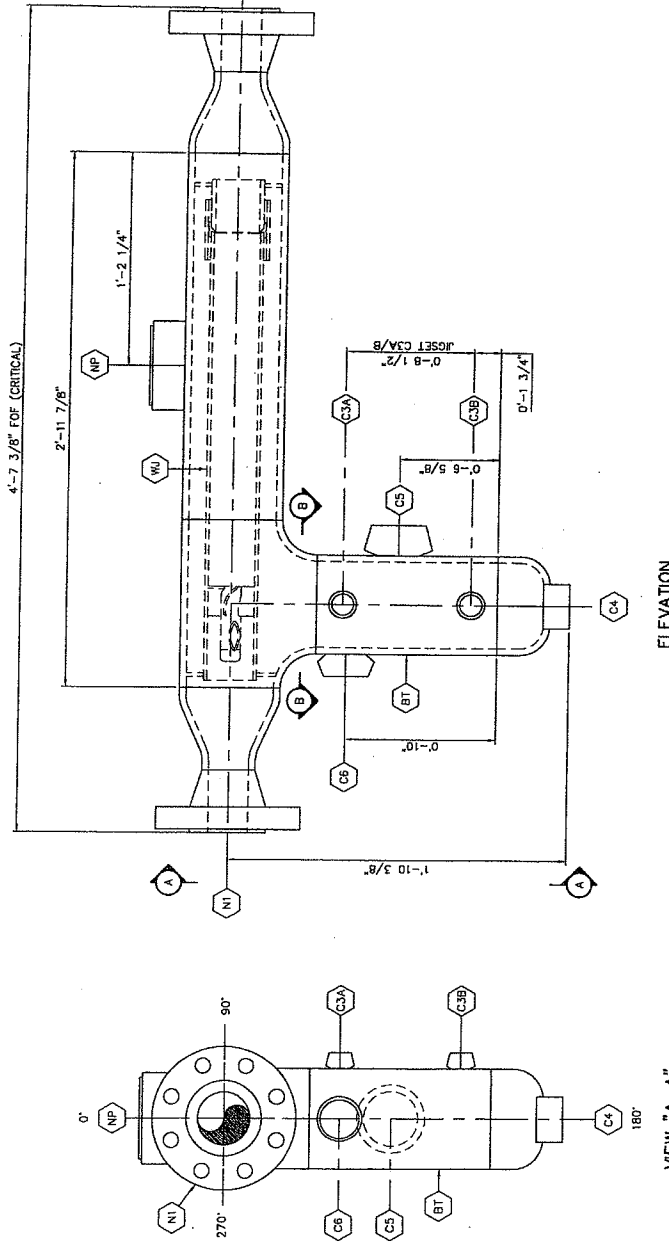
1. BEVELS TO BE ± 0°.
2. LANDS AND GAPS TO BE ± 1/16".

NOZZLE LOCATION NOTES:

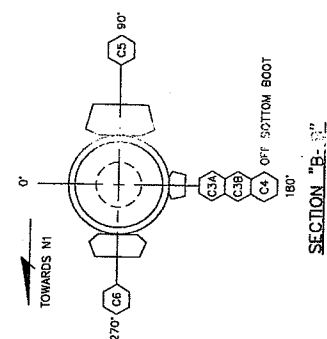
1. ELEVATIONS ARE GIVEN REFERRING TO NEAREST DATUM PER ELEVATION.
2. ARCS ARE MEASURED CLOCKWISE REFERRING TO NEAREST MAJOR CENTERLINE.
3. ALL ARC LENGTHS ARE MEASURED TO THE OUTSIDE OF THE NOZZLE.
4. OUTSIDE DIAMETER = 0'-6 5/8"
5. CIRCUMFERENCE = 1'-8 13/16"
6. 90° ARC LENGTH = 0'-5 7/32"



ARC DIMENSION DIAGRAM

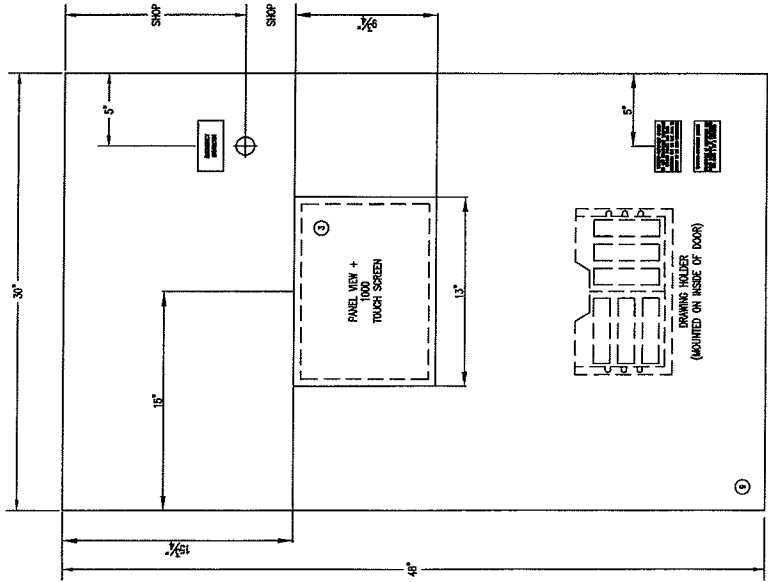


VIEW "A-A"

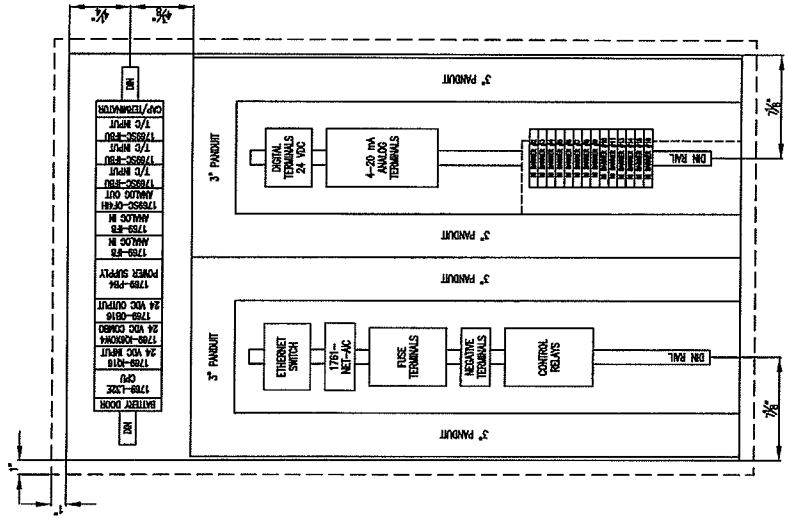


SECTION "B-B"

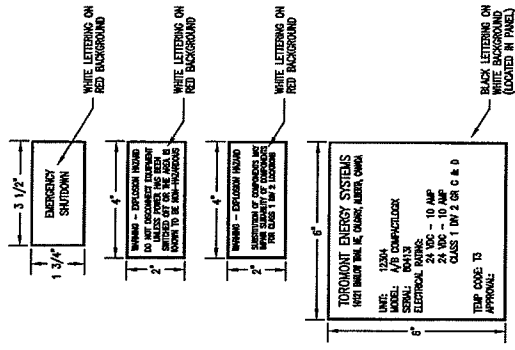
G.L.M. INDUSTRIES L.P. 8501 AB CULVER, AB INTERSECTION ST. CHARGE AB CHARGE PLATE, AB		CHECKED BY: <i>[Signature]</i> DATE: 01/02/07 DESIGNED FOR: <i>[Signature]</i> DATE: 01/02/07
DRAWN BY: D. UONG DATE: 01/02/07 TOLERANCES: UNLESS OTHERWISE SPECIFIED DIMENSIONS: INCHES 2004 EDITION, 2005 ADDENDUM	GENERAL ARRANGEMENT HORIZONTAL VERTICAL TUBE SEPARATOR SCALE: N.T.S. JOB CLASSIFICATION: # 4455 PURCHASE ORDER: # 4455	REVISION NO. 1 DATE: 01/02/07 BY: <i>[Signature]</i> REASON: <i>[Signature]</i>
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DOOR LAYOUT



BACK PANEL LAYOUT

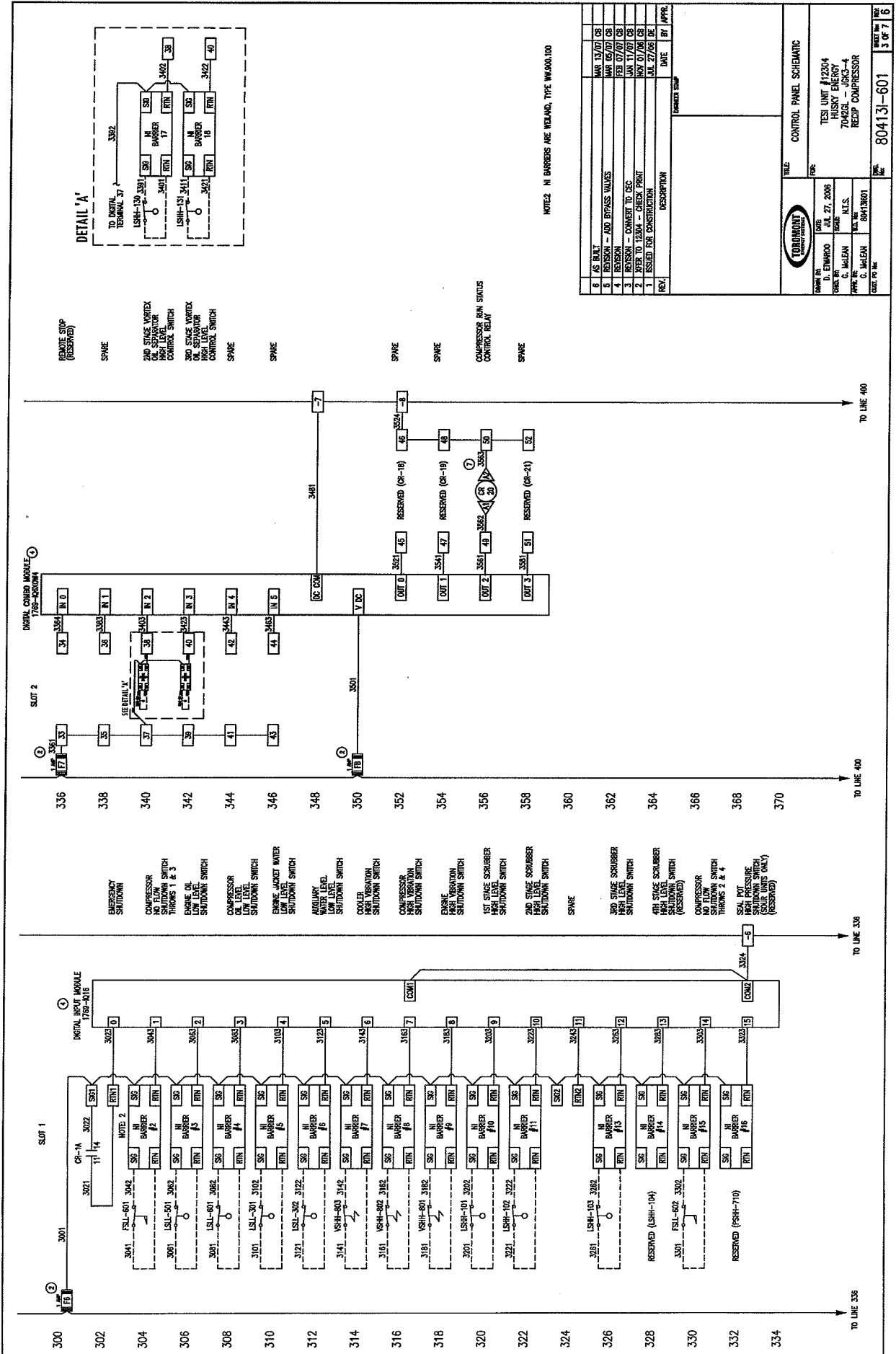


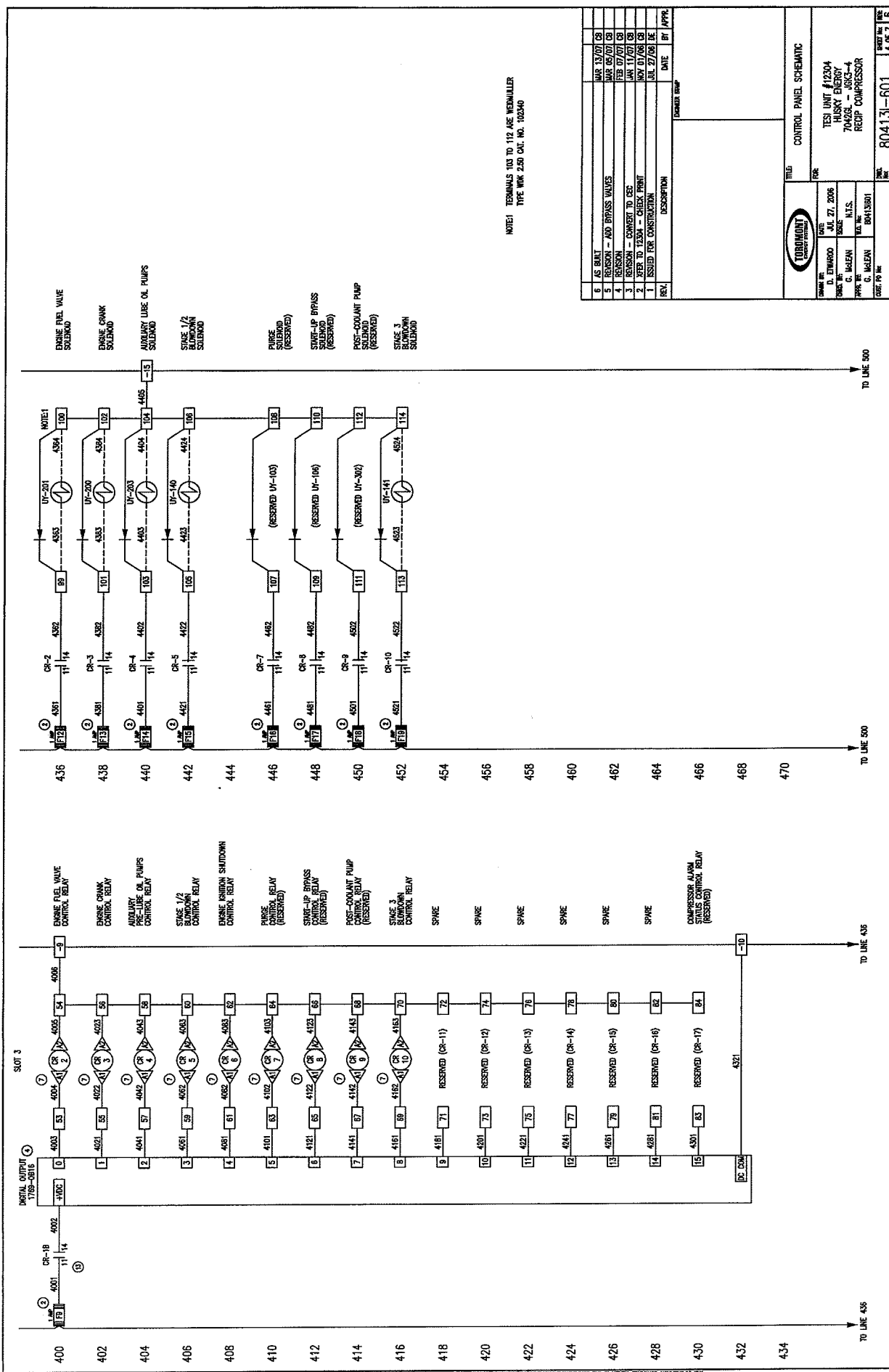
LAMCO DETAILS

AS BUILT		MAR 13/07	CS	
6	REVISION - ADD BRASS VALVES	MAR 15/07	CS	
5	REVISION - CONVERT TO GSD	FEB 17/07	CS	
4	REVISION - CHECK PRINT	JAN 11/07	CS	
3	XFER TO 12204 - CHECK PRINT	NOV 01/06	CS	
2	ISSUED FOR CONSTRUCTION	JUL 27/06	DE	
1				
REV	DESCRIPTION	DATE	BY	APPR
DRAWN: CSAP				
</				



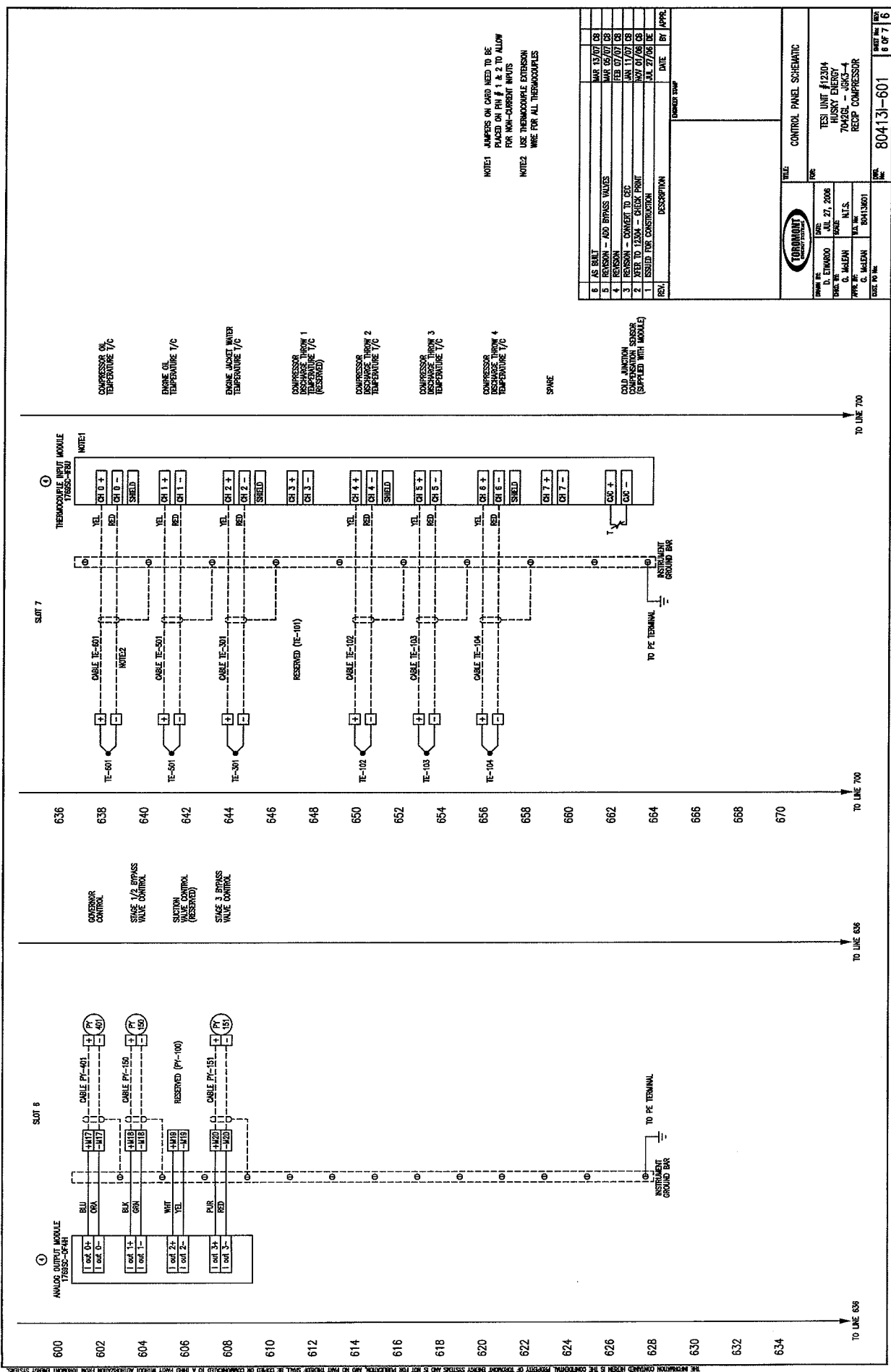
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NOTE:1 TERMINALS 103 TO 112 ARE WEIDMULLER
TYPE WDK 2.50 CAT. NO. 102340

[illegible]



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