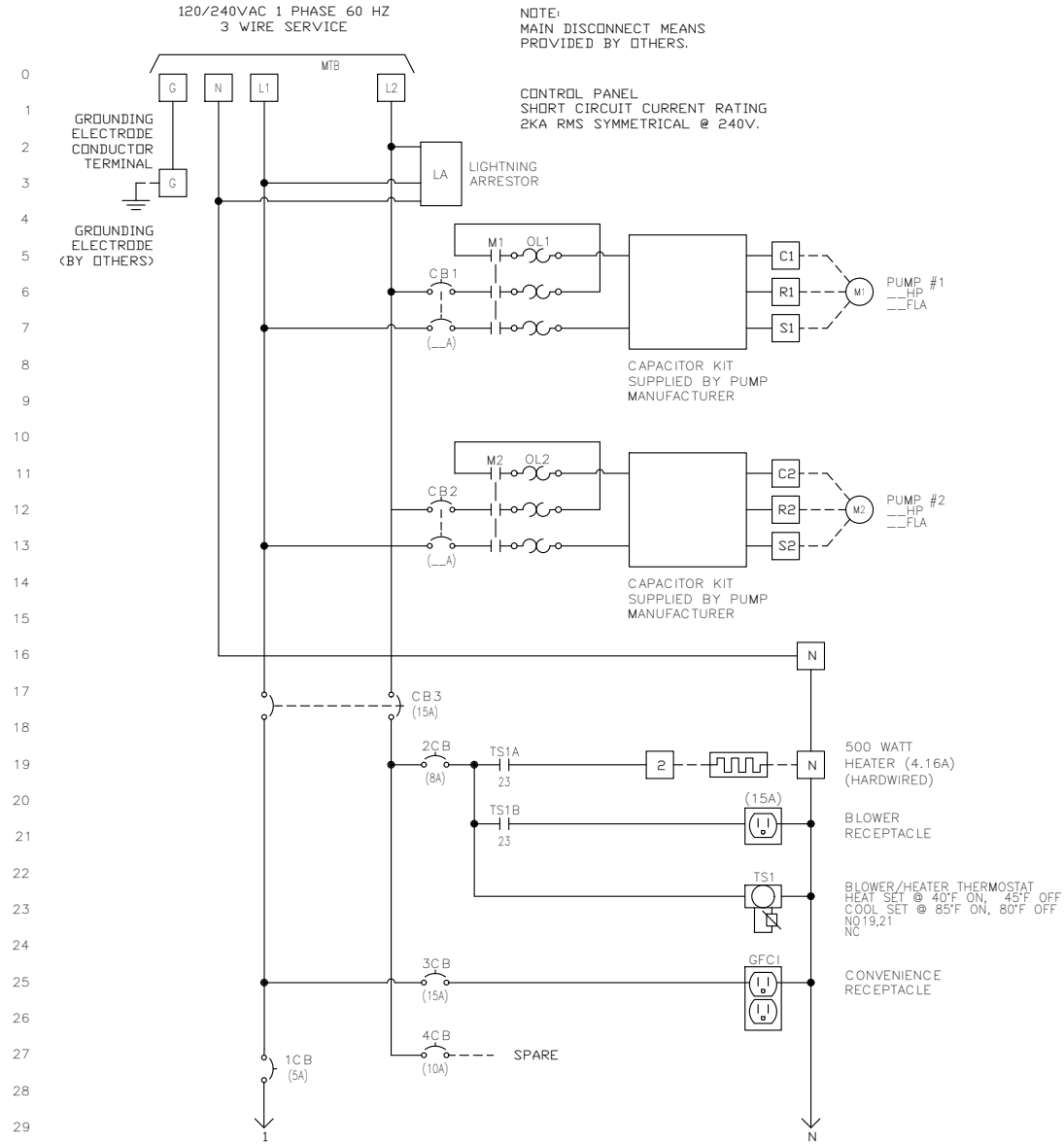




MOTOR FLA BASED ON NEC TABLES 430.248 THROUGH 430.50

VOLTAGE	240V				
HORSEPOWER	1/2-1HP	1.5	2HP	3HP	5HP
CIRCUIT BREAKER SIZE	15A	20A	25A	35A	60A

NOTES:
CONTROL PANEL SHALL BEAR SERIALIZED U.L. 698A LABEL.

* FLOAT TYPE LEVEL SENSING SWITCH IN SEWAGE WETWELL. CABLE LENGTH FROM WIRING TERMINALS TO SWITCH MUST BE LESS THAN 1000 FEET IN ACCORDANCE WITH MACROMATIC CONTROL DRAWING NO. 1SD2A01.

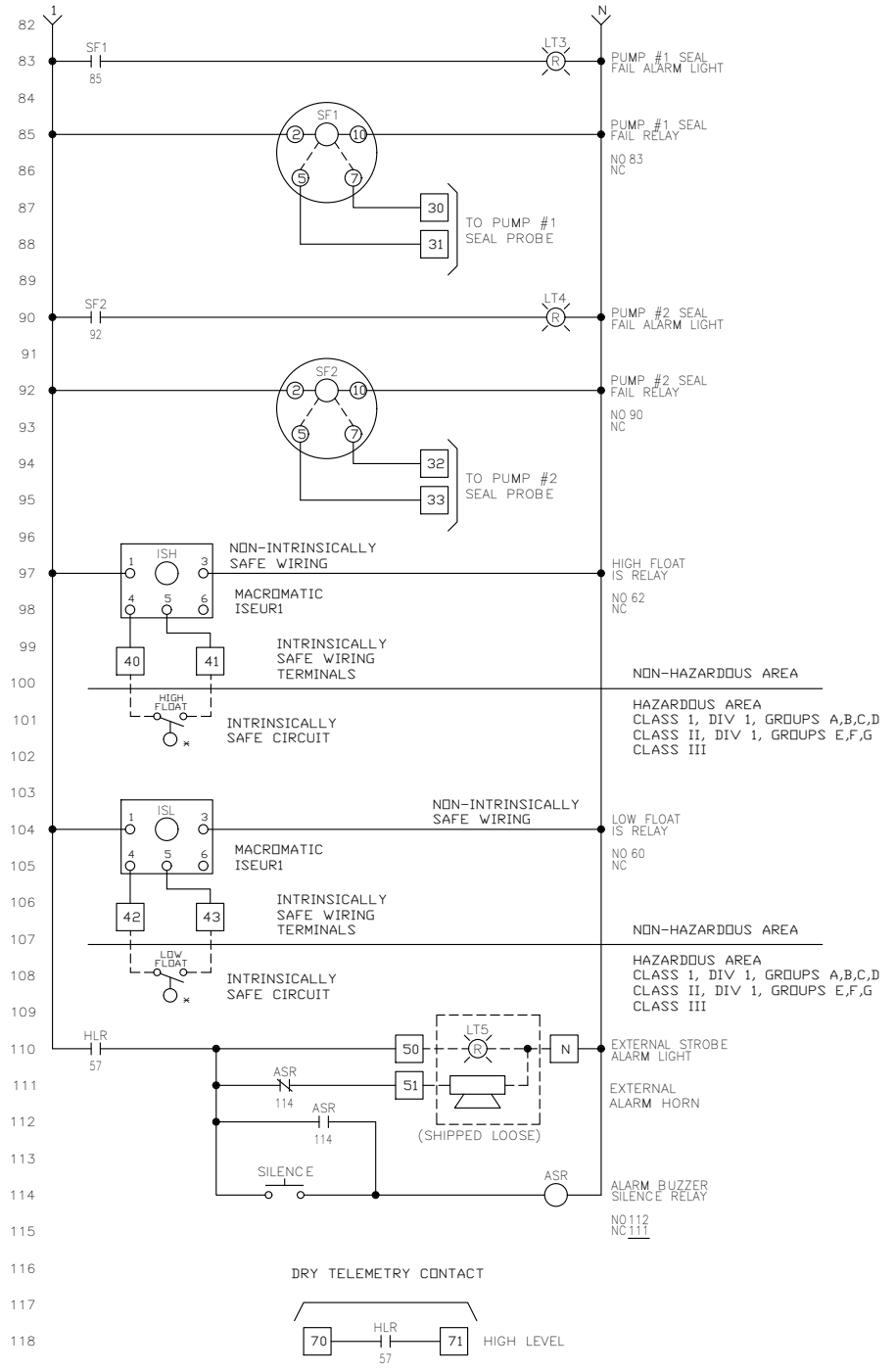
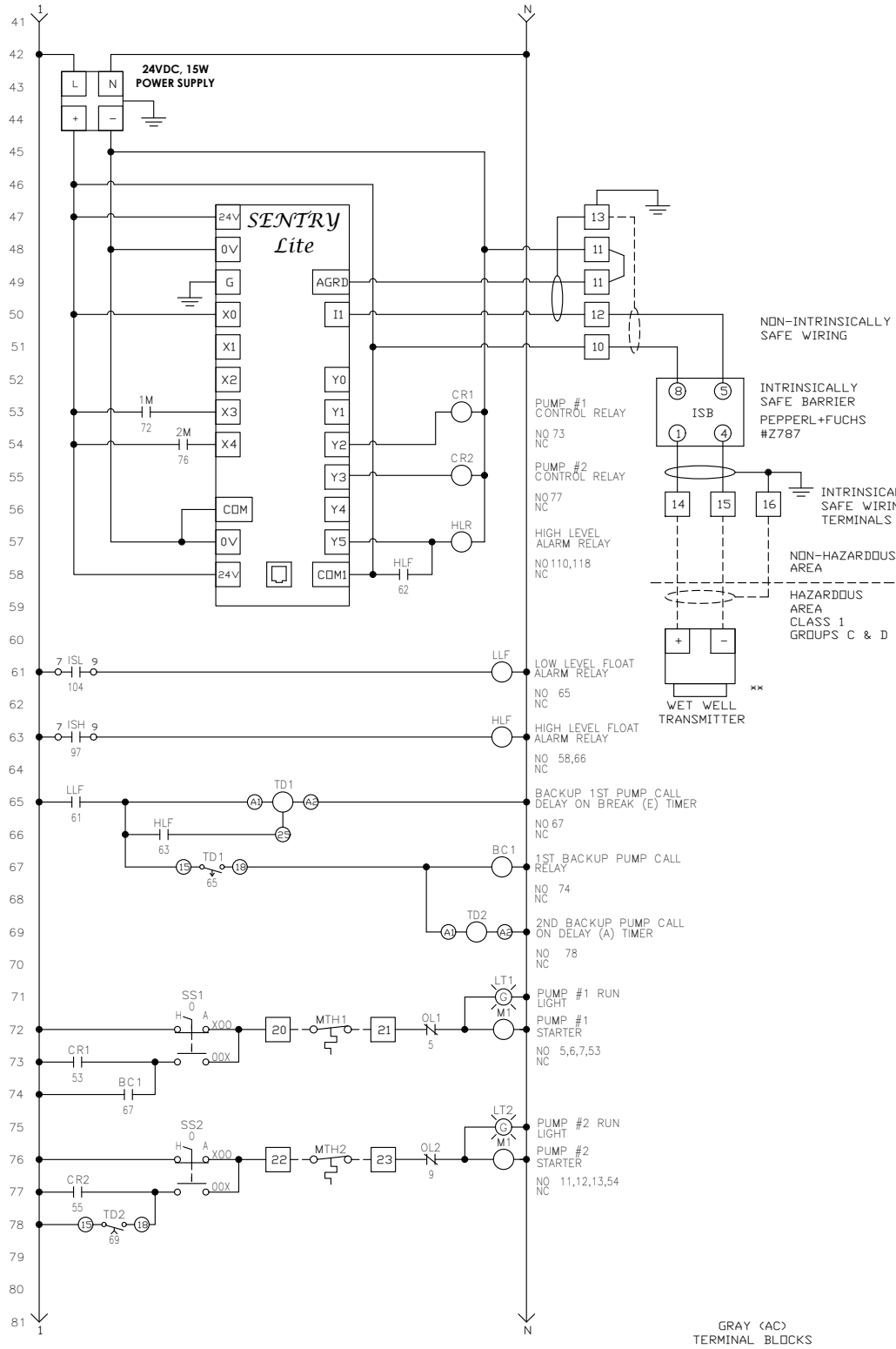
** TRANSDUCER TYPE LEVEL SENSING IN SEWAGE WETWELL. CABLE LENGTH FROM WIRING TERMINALS TO TRANSDUCER MUST BE LESS THAN 4150 FEET, OR A MAXIMUM OF .249uF CAPACITANCE AND 9.15mH INDUCTANCE.

THE DISTANCE BETWEEN INTRINSICALLY SAFE FIELD WIRING TERMINALS AND NON-INTRINSICALLY SAFE INTERNAL WIRING AND THE DISTANCE BETWEEN NON-INTRINSICALLY SAFE FIELD WIRING TERMINALS AND INTRINSICALLY SAFE INTERNAL WIRING SHALL NOT BE LESS THAN 5 INCHES. ALL INTRINSICALLY SAFE CIRCUITS MUST BE RUN IN SEPARATE CONDUITS OR RACEWAYS. NEC 504

WIRING FROM GROUND TERMINAL MUST BE TO GOOD EARTHING MEMBER IN NON-HAZARDOUS AREA OF PANEL AND LESS THAN 1 OHM RESISTANCE. EARTH GROUNDING MUST BE IN 2 PLACES. NEC 250

INSTALL IN ACCORDANCE WITH ARTICLE 504 OF THE NATIONAL ELECTRICAL CODE.

WARNING:
SUBSTITUTION OF COMPONENTS MAY IMPAIR THE INTRINSIC SAFETY.



GRAY (AC)
TERMINAL BLOCKS

1	1	2	20	21	22	23	50	51	N
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BLUE (DC)
INTRINSICALLY SAFE
TERMINAL BLOCKS

14	15	16	40	41	42	43
----	----	----	----	----	----	----

BLUE (DC)
NON-INTRINSICALLY SAFE
TERMINAL BLOCKS

10	11	11	12	13	30	31	32	33
----	----	----	----	----	----	----	----	----

YELLOW
TERMINAL BLOCKS

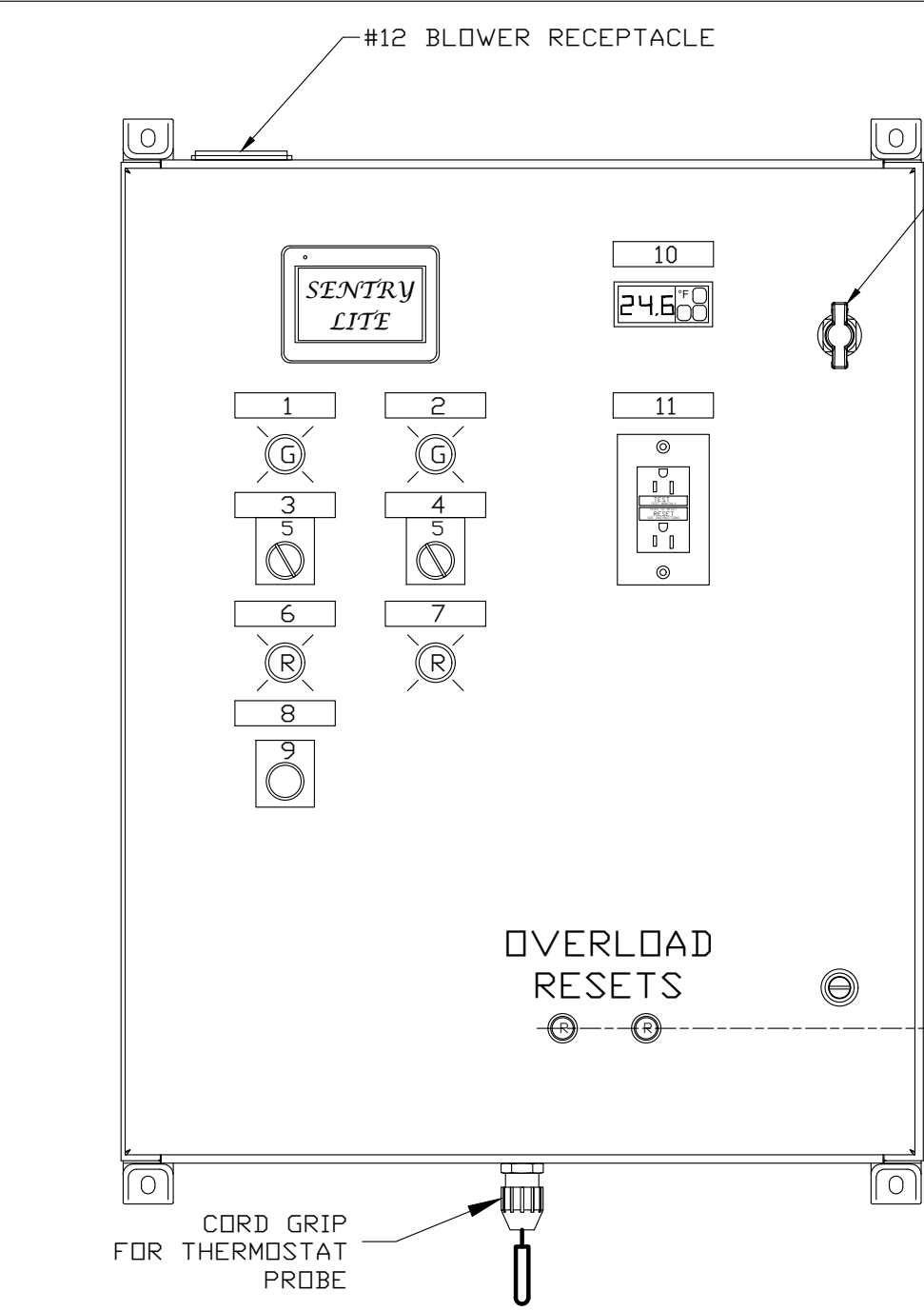
70	71
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COLOR CODING	
BLACK	- LINE AND LOAD
RED	- AC CONTROL
BLUE	- DC CONTROL
WHITE	- NEUTRAL
GREEN	- GROUND
YELLOW	- INTERCONNECTING
LT. BLUE	- INTRINSICALLY SAFE

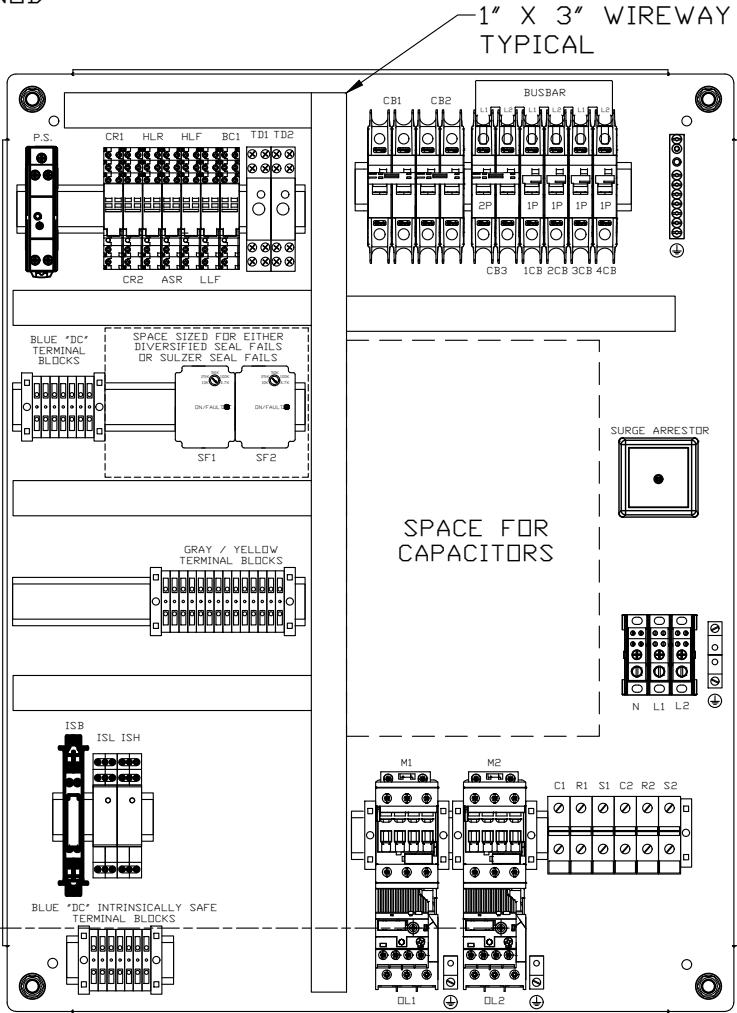
CAD3\ELECTRICAL CIRCUIT WBLOCKS\EEE\TOP\VAULT\SCHEMATICS UT V900801-240-INT-STD.DWG

REV. NO.	REVISION	BY CHK'D	DATE	DESIGNED BY: DATE	DRAWN BY: DATE	MH CHECKED BY: DATE	SCALE

USEMCO USEMCO INCORPORATED P.O. BOX 550 (608) 372-5911 TOMAH WI. 54660	
DESCRIPTION DUPLEX 1 PHASE 3 WIRE, INT. SAFE, STD	
DWG. NO.	UT V900801-240-INT-STD



PADLOCKABLE WINGKNOB
DOOR LATCH



SUBPANEL

NEMA 1 PAINTED STEEL
ENCLOSURE
30"H X 24"W X 10"DP

NAMEPLATE LEGEND

- 1. PUMP 1 RUN
- 2. PUMP 2 RUN
- 3. PUMP 1
- 4. PUMP 2
- 5. HAND OF AUTO
- 6. SEAL 1 FAIL
- 7. SEAL 2 FAIL
- 8. ALARM
- 9. SILENCE
- 10. HEATER / BLOWER
- 11. CONVENIENCE
- 12. BLOWER

- NOTES:
- 1. USE END STOPS ON EACH SIDE OF THE MOTOR STARTERS TO PREVENT THEM FROM MOVING.
 - 2. PLUG UNUSED CONDUIT HOLES.

CAD3\ELECTRICAL CIRCUIT WBLOCKS\EEE\TOPVAULT\LAYOUTS UTV900801-240 PL1.DWG

REV. NO.	REVISION	BY CHK'D	DATE	DESIGNED BY:	DATE	USEMCO USEMCO INCORPORATED P.O. BOX 550 (608) 372-5911 TOMAH WI. 54660 DESCRIPTION DUPLEX 1-PHASE TOPVAULT CONTROL PANEL
				MH	2/19	
				MH	18	
				CHECKED BY:	DATE	
				SCALE		DWG. NO. UTV900801-240 PL1