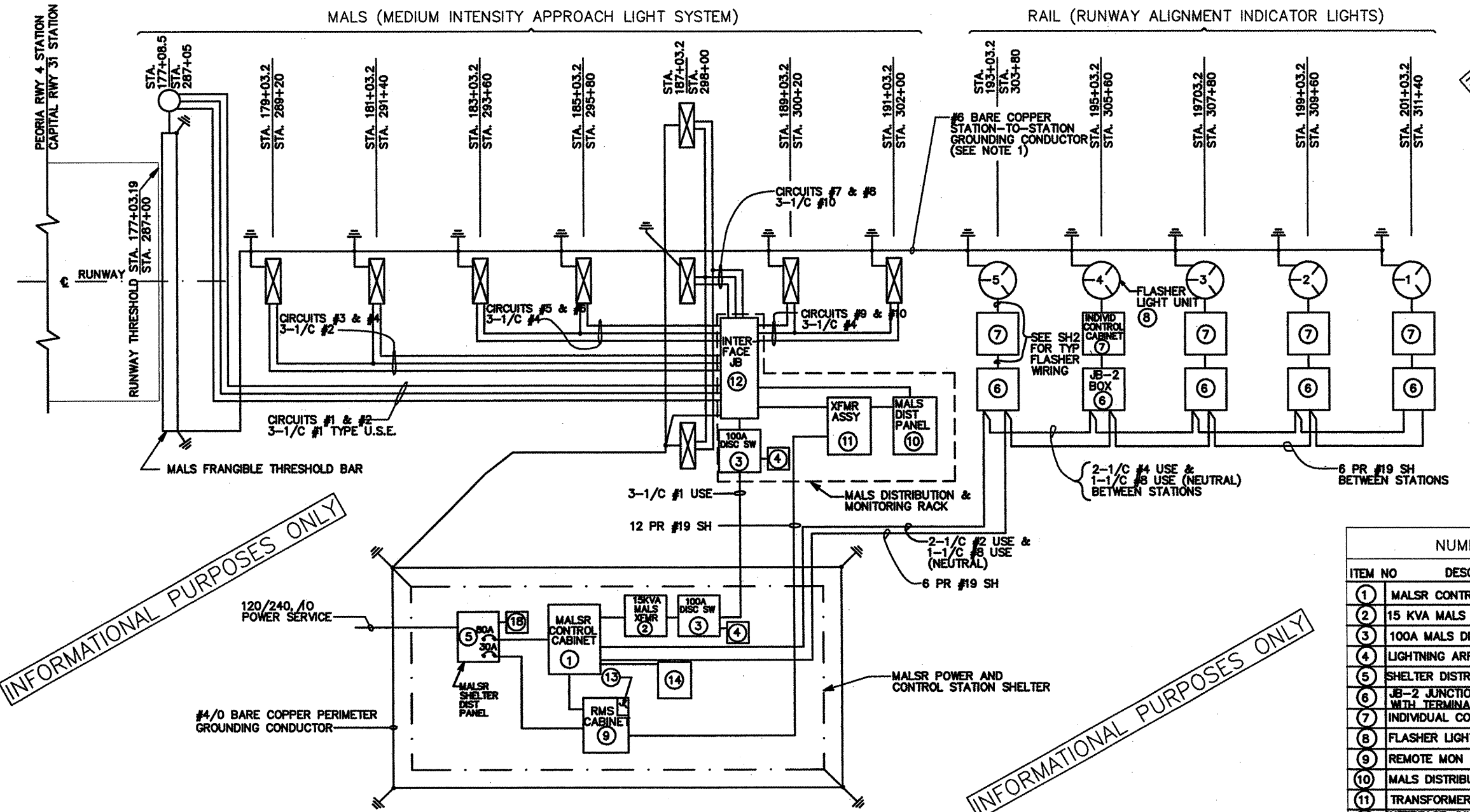


REVISIONS		
NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).
PLOT 1



INFORMATIONAL PURPOSES ONLY

INFORMATIONAL PURPOSES ONLY

INFORMATIONAL PURPOSES ONLY

NUMBERED LEGEND		
ITEM NO	DESCRIPTION	QTY
①	MALSR CONTROL CABINET	1
②	15 KVA MALS TRANSFORMER, NOTE 6	1
③	100A MALS DISC SW, 120/240V, NOTE 8	1
④	LIGHTNING ARRESTER	1
⑤	SHELTER DISTRIBUTION PANEL PER NOTE 11	1
⑥	JB-2 JUNCTION BOX 14" X 14" X 6" WITH TERMINAL BLOCKS	5
⑦	INDIVIDUAL CONTROL CABINET	5
⑧	FLASHER LIGHT UNIT	5
⑨	REMOTE MON SUBSYSTEM CAB	1
⑩	MALS DISTRIBUTION PANEL PER NOTE 9	1
⑪	TRANSFORMER ASSEMBLY	1
⑫	INTERFACE JUNCTION BOX 24" X 30" X 8" PER NOTE 10	1
⑬	LINK TRANSCEIVER & ANTENNA	2
⑭	PUSHBUTTON LAND LINE CONTROL INTERFACE UNIT, NOTE 13	1
⑮	NOT USED	1
⑯	NOT USED	1
⑰	NOT USED	1
⑱	AC SURGE ARRESTER PER NOTE 12	1

NOTES: THE CONTRACTOR SHALL CONSTRUCT THE MALSR SUCH THAT:

- FOR ADDITIONAL INFORMATION SEE MALSR WIRING DIAGRAM-2.
- FOR A TRIGGER (TR) CIRCUIT, ONLY ONE CONDUCTOR OF A CONTROL CABLE PAIR IS USED. AT THE CONTROL CABINET, ALL UNUSED CONDUCTORS OF THE CONTROL CABLE ARE GROUNDED. ELSEWHERE, ALL CONDUCTORS WHICH ARE NOT USED ARE TURNED BACK AND INSULATED, AND DRESSED FLAT AGAINST THE INTERIOR OF THE JB-2 BOX.
- THE FLASHERS FIRE IN SEQUENCE TOWARD THE RUNWAY, STARTING AT THE THE OUTERMOST UNIT. CONTROL TERMINALS 9 (MEDIUM INTENSITY STEP) AND 10 (HIGH INTENSITY STEP) ARE COMMON FOR ALL FLASHERS. EACH FLASHER REQUIRES AN INDIVIDUAL CONDUCTOR FOR THE TRIGGER (TR) CIRCUIT. (FLASHERS ARE NUMBERED IN FIRING SEQUENCE PER THIS SHEET. THE FLASHER DIAGRAMMED ON SHEET 2 IS NUMBER 5).
- NOT USED
- THE WIRES RUNNING FROM EACH INDIVIDUAL FLASHER CONTROL CABINET TO THE FLASHER SPADE LUG NUT CONNECTORS ARE THE 1/C, 3000V WIRES WHICH COME WITH THE FLASHER EQUIPMENT. (IF ADDITIONAL WIRE QUANTITIES ARE NEEDED, THE CONTRACTOR SHALL FURNISH THEM. THE WIRES MUST MEET MILITARY SPECIFICATION MIL-76B.)
- CONNECTION IS MADE TO THE TRANSFORMER TAP WHICH GIVES THE VOLTAGE CLOSEST TO 120/240V, WITHOUT BEING ABOVE 120/240V, AT THE MALS DISTRIBUTION PANEL WHEN ALL THE MALS LAMPS ARE BURNING AT THE HIGH BRIGHTNESS STEP.
- THE LUGS OF TB1 IN THE JB-2 BOXES AND LUGS 10, 11 & 12 OF TB1 IN THE MALSR CONTROL CABINET ARE REPLACED WITH LUGS LARGE
- ITEM ⑥ IS A HEAVY DUTY NEMA 1 DISCONNECT SWITCH PER SPECIFICATION FAA-GL-918B, PARAGRAPH 16A.13.
- ITEM ③ IS 100A, HEAVY DUTY DISCONNECT SWITCH, 3-WIRE, S/N, 240V, SQUARE D CLASS 3110, OR EQUIVALENT. IN MALSR POWER AND CONTROL STATION SHELTER, DISCONNECT SHALL BE IN NEMA 1 ENCLOSURE. AT MALSR DISTRIBUTION AND MONITORING RACK, DISCONNECT SHALL BE IN NEMA 3R ENCLOSURE. PROVIDE 2-80A TIME DELAY FUSES FOR EACH DISCONNECT.
- ITEM ⑩ IS A 100A, 12 POLE SPACE, NEMA 3R PANELBOARD WITH MAIN LUGS, PER SPECIFICATION PARAGRAPH 16A.14.
- ITEM ⑫ IS A 24" X 30" X 8" STAINLESS STEEL NEMA 4X ENCLOSURE W/INTERIOR PANEL AND W/TERMINAL BLOCKS AND MISC ITEMS SHOWN ON MALSR WIRING DIAGRAM-2.
- ITEM ⑤ IS A 100A, 12 POLE SPACE, NEMA 1 PANELBOARD WITH A 100A MAIN BREAKER, PER SPECIFICATION PARAGRAPH 16A.14.
- ITEM ⑱ IS AN AC SURGE ARRESTER W/SELF-CONTAINED DISCONNECT, 120/240V, 10, 3-WIRE, PER SPECIFICATION PARAGRAPH 16A.16.
- FOR ADDITIONAL INFORMATION, SEE PUSHBUTTON LANDLINE (/AIR-GROUND) MALSR CONTROL SHEETS FOR RESPECTIVE AIRPORTS.
- ALL ELECTRICAL ENCLOSURES IN THE MALSR SHELTER AND FLASHER JB-2 BOXES AND INDIVIDUAL CONTROL CABINETS, ARE GROUNDED WITH A #6 BARE COPPER GROUNDING CONDUCTOR. WHERE THIS CONDUCTOR IS ENTIRELY ABOVE GRADE, IT IS GREEN INSULATED. THIS GROUNDING IS APPLIED TO ITEMS ⑩, ⑪, AND ⑫ EVEN THOUGH IT IS NOT SHOWN ON SHEET 2.

- SYMBOLS**
- ⊥ GROUNDING ELECTRODE (ROD)
 - ⊠ MALS LIGHT BAR: 5 PAR-38, 120W, 120V GE WATTMISER SPOT LAMPS
 - ⊖ RAIL SEQUENCED FLASHER (NUMERAL IN CENTER IS FLASHER SEQUENCE NUMBER.)

THIS SHEET CONTAINS A DIAGRAM OF THE INITIAL MALSR WIRING DONE AT PEORIA INTERNATIONAL AIRPORT AND IT IS IMPORTED FROM THAT PREVIOUS PROJECT. THIS SHEET IS INCLUDED FOR INFORMATIONAL PURPOSES ONLY. ANYTHING PROPOSED ON THIS SHEET SHALL BE CONSIDERED EXISTING.

GENERAL WAYNE A. DOWNING
 PEORIA INTERNATIONAL AIRPORT
 CONSTRUCT NEW PERIMETER ROAD AND PERIMETER FENCE - PROJECT 3

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L. PROJECT: PIA-3866
AIP PROJ 3-17-0080-XX

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APPROVED BY:	CET
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JOB No:	07061-04-00

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