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COMPONENTS	2	BACKPLATE	1	HOFFMAN	CP2420	BACK PLATE, 22.2X18.2, CP2420, HOFFMAN NEMA BACK PLATE	3	DISC0301	1	ABB	OHB65J6	BLACK HANDLE - PADLOCKABLE, DEFEATABLE, w/METAL HASP HANDLE	1	ABB	OS30FAJ12	DISCONNECT SWITCH FUSIBLE ,600V,30A ,3POLE 30AMPS	3	BUSSMANN	LPJ-25SP	FUSE, 25A 600VAC	1	ABB	OSS160-GG1L-3	DISCONNECT- SHROUD, ABB N/A	1	ABB	OSP6X210	DISCONNECT SWITCH, SHAFT, 6mm DIA	1	ABB	OZXA-24	DISCONNECT LUG KIT,14-2/0 AWG ALUMINUM	4	T0320	1	ACME ELECTRIC	CE250N007	XFMR-CNTRL, 480/600VAC, 120VAC-50/60Hz, 250VA, ACME, 250VA	5	SS0313	1	AB	800FP-SM32PX20	SELECTOR SWITCH- 3 POS MAINTAINED,A-B,2N0,MAN,SM, KNOB BLACK	6	CONTACT BLOCK	2	AB	800F-X10	SWITCH-CONTACT BLOCK, A-B,22MM, NO	7	MS0304	1	AB	100-C30D10	100-C CONTACTOR, 3-POLE 30AMPS, 110VAC 50Hz, 120VAC 60Hz	8	OL0304	1	AB	193-1EEEB	193S, E1 PLUS SOLID-STATE OVERLOAD RELAY, 3-PHASE, SCREW TYPE CONTROL TERMINALS 5.4-27AMPS (SEE NOTE 1)	9	FU0319	1	BUSSMANN	CHCC1D	1 POLE FUSE BLOCK - CLASS CC 600VAC	BUSSMANN	LP-CC-2	FUSE, 2A 600VAC	<table><tr><td>ITEM</td><td>TAGS</td><td>QTY</td><td>MFG</td><td>CATALOG</td><td>DESCRIPTION</td></tr><tr><td rowspan="2">10</td><td rowspan="2">FU0308A</td><td rowspan="2">1</td><td>BUSSMANN</td><td>CHCC1D</td><td>1 POLE FUSE BLOCK - CLASS CC 600VAC</td></tr><tr><td>BUSSMANN</td><td>LP-CC-3</td><td>FUSE, 3A 600VAC</td></tr><tr><td rowspan="2">11</td><td rowspan="2">FU0308</td><td>1</td><td>BUSSMANN</td><td>CHCC2DU</td><td>2 POLE FUSE BLOCK - CLASS CC 600VAC</td></tr><tr><td>2</td><td>BUSSMANN</td><td>LP-CC-2</td><td>FUSE, 2A 600VAC</td></tr><tr><td>12</td><td>TB-FLD TB-N TB-VAC</td><td>14</td><td>AB</td><td>1492-L3T</td><td>SPRING CLAMP TERMINAL BLOCK, STANDARD FEED-THROUGH BLOCK, 1492-L 25AMPS</td></tr><tr><td>13</td><td>END ANCHOR</td><td>13</td><td>AB</td><td>1492-EAJ35</td><td>END ANCHOR END ANCHOR</td></tr><tr><td>14</td><td>END BARRIER</td><td>3</td><td>AB</td><td>1492-EBL3</td><td>END BARRIER; 1492-L END SECTION</td></tr><tr><td>15</td><td>BB</td><td>1</td><td>ILSCO</td><td>D167-10</td><td>BUS BAR</td></tr><tr><td>16</td><td>DIN RAIL</td><td>A/R</td><td>AB</td><td>199-DR1</td><td>ZINC/STEEL DIN RAIL EN 50022 (35mm x 7.5mm x 1m) SLOTTED</td></tr><tr><td>17</td><td>LUG</td><td>1</td><td>BURNDY</td><td>K2A25U</td><td>TERMINAL LUG ALUMINUM,14-1/0 AWG</td></tr><tr><td>18</td><td>L1</td><td>1</td><td>VEOLIA</td><td>VEOLIA-MFG-LABEL</td><td>LABEL, SSCR/MFG PRODUCT INFO</td></tr><tr><td>19</td><td>L2</td><td>1</td><td>CLARION SAFETY SYSTEM</td><td>5025-61DHPK</td><td>LABEL, HAZARDOUS VOLATGE</td></tr><tr><td>20</td><td>NP1</td><td>1</td><td>VEOLIA</td><td>-</td><td>NAMEPLATE 10" X 2.5"</td></tr><tr><td>21</td><td>L3</td><td>1</td><td>MITOGRAPHER S</td><td>-</td><td>NALABLE, VEOLIA, 7.36"X3.00" WITH BACKGROUND, RED LETTERING VEOLIA P/N 3205612</td></tr><tr><td>22</td><td>L5</td><td>1</td><td>VEOLIA</td><td>-</td><td>L5, LABEL, SUPPLY, FUSE, TORQUE</td></tr><tr><td rowspan="2">23</td><td rowspan="2">1 X 4 AC DUCT</td><td rowspan="2">A/R</td><td rowspan="2">PANDUIT</td><td rowspan="2">F1X4LG6</td><td>NARROW FINGER, SLOTTED WIRING DUCT 1.25 X 4.08 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES</td></tr></table>																ITEM	TAGS	QTY	MFG	CATALOG	DESCRIPTION	10	FU0308A	1	BUSSMANN	CHCC1D	1 POLE FUSE BLOCK - CLASS CC 600VAC	BUSSMANN	LP-CC-3	FUSE, 3A 600VAC	11	FU0308	1	BUSSMANN	CHCC2DU	2 POLE FUSE BLOCK - CLASS CC 600VAC	2	BUSSMANN	LP-CC-2	FUSE, 2A 600VAC	12	TB-FLD TB-N TB-VAC	14	AB	1492-L3T	SPRING CLAMP TERMINAL BLOCK, STANDARD FEED-THROUGH BLOCK, 1492-L 25AMPS	13	END ANCHOR	13	AB	1492-EAJ35	END ANCHOR END ANCHOR	14	END BARRIER	3	AB	1492-EBL3	END BARRIER; 1492-L END SECTION	15	BB	1	ILSCO	D167-10	BUS BAR	16	DIN RAIL	A/R	AB	199-DR1	ZINC/STEEL DIN RAIL EN 50022 (35mm x 7.5mm x 1m) SLOTTED	17	LUG	1	BURNDY	K2A25U	TERMINAL LUG ALUMINUM,14-1/0 AWG	18	L1	1	VEOLIA	VEOLIA-MFG-LABEL	LABEL, SSCR/MFG PRODUCT INFO	19	L2	1	CLARION SAFETY SYSTEM	5025-61DHPK	LABEL, HAZARDOUS VOLATGE	20	NP1	1	VEOLIA	-	NAMEPLATE 10" X 2.5"	21	L3	1	MITOGRAPHER S	-	NALABLE, VEOLIA, 7.36"X3.00" WITH BACKGROUND, RED LETTERING VEOLIA P/N 3205612	22	L5	1	VEOLIA	-	L5, LABEL, SUPPLY, FUSE, TORQUE	23	1 X 4 AC DUCT	A/R	PANDUIT	F1X4LG6	NARROW FINGER, SLOTTED WIRING DUCT 1.25 X 4.08 SLOTTED LIGHT GRAY LEAD-FREE PVC, STANDARD MOUNTING HOLES
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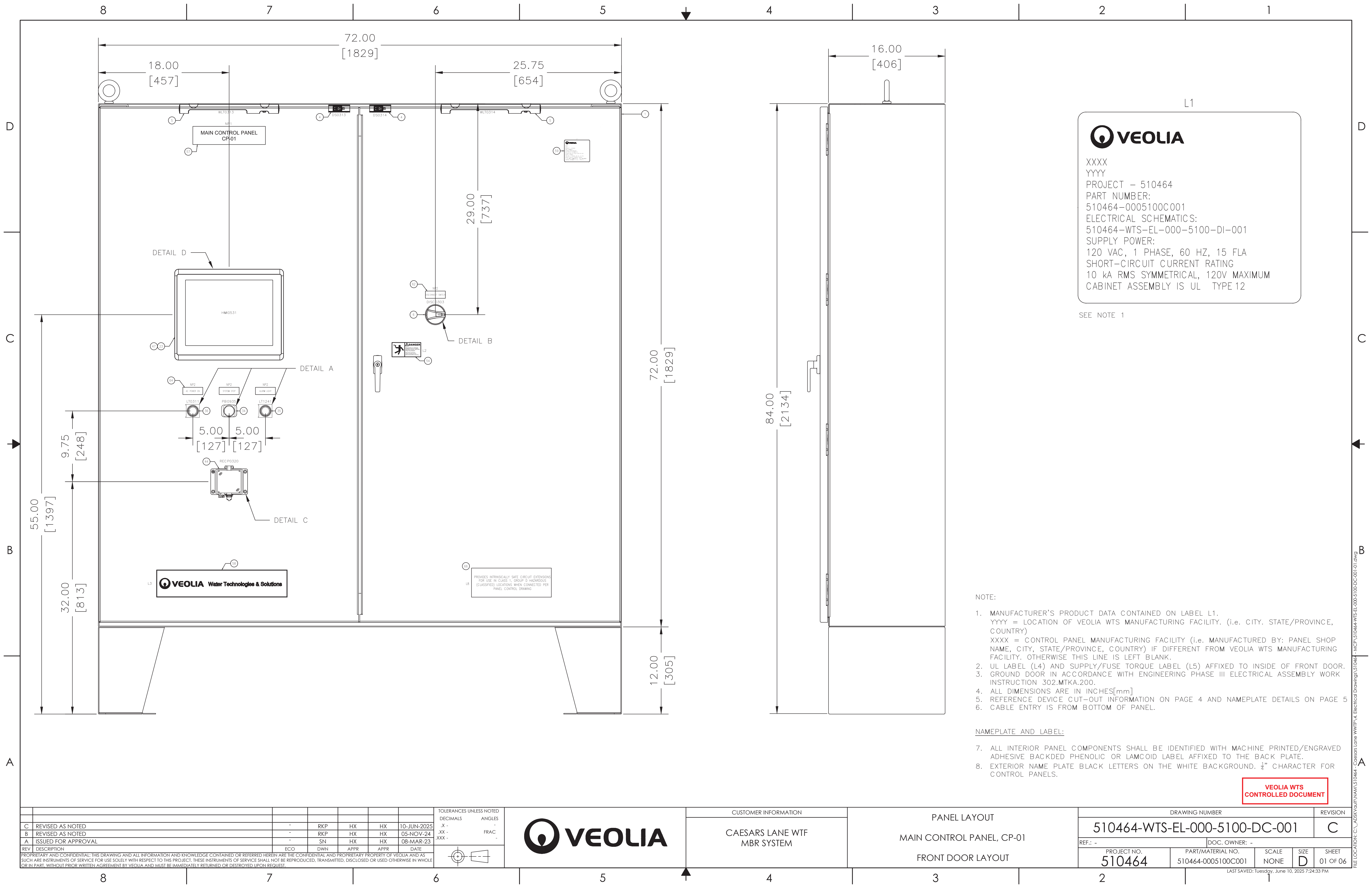
NOTES:

1. USE THIS OVERLOAD RELAY FOR 15HP COMPRESSOR PANEL.

2. REPLACE "X" WITH "A" FOR COMPRESSOR 90-AC-001-A AND "B" FOR COMPRESSOR 90-AC-001-B

VEOLIA WTS
CONTROLLED DOCUMENT

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XXXX
YYYY
PROJECT – 510464
PART NUMBER:
510464-0005100C001
ELECTRICAL SCHEMATICS:
510464-WTS-EL-000-5100-DI-001
SUPPLY POWER:
120 VAC, 1 PHASE, 60 HZ, 15 FLA
SHORT-CIRCUIT CURRENT RATING
10 kA RMS SYMMETRICAL, 120V MAXIMUM
CABINET ASSEMBLY IS UL TYPE 12

SEE NOTE 1

- NOTE:
- MANUFACTURER'S PRODUCT DATA CONTAINED ON LABEL L1.
YYYY = LOCATION OF VEOLIA WTS MANUFACTURING FACILITY. (i.e. CITY, STATE/PROVINCE, COUNTRY)
XXXX = CONTROL PANEL MANUFACTURING FACILITY (i.e. MANUFACTURED BY: PANEL SHOP NAME, CITY, STATE/PROVINCE, COUNTRY) IF DIFFERENT FROM VEOLIA WTS MANUFACTURING FACILITY. OTHERWISE THIS LINE IS LEFT BLANK.
 - UL LABEL (L4) AND SUPPLY/FUSE TORQUE LABEL (L5) AFFIXED TO INSIDE OF FRONT DOOR.
 - GROUND DOOR IN ACCORDANCE WITH ENGINEERING PHASE III ELECTRICAL ASSEMBLY WORK INSTRUCTION 302.MTKA.200.
 - ALL DIMENSIONS ARE IN INCHES[mm]
 - REFERENCE DEVICE CUT-OUT INFORMATION ON PAGE 4 AND NAMEPLATE DETAILS ON PAGE 5
 - CABLE ENTRY IS FROM BOTTOM OF PANEL.

NAMEPLATE AND LABEL:

- ALL INTERIOR PANEL COMPONENTS SHALL BE IDENTIFIED WITH MACHINE PRINTED/ENGRAVED ADHESIVE BACKDED PHENOLIC OR LAMCOID LABEL AFFIXED TO THE BACK PLATE.
- EXTERIOR NAME PLATE BLACK LETTERS ON THE WHITE BACKGROUND. ¼" CHARACTER FOR CONTROL PANELS.

VEOLIA WTS
CONTROLLED DOCUMENT

REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
C	REVISED AS NOTED	-	RKP	HX	HX	10-JUN-2025
B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
.X -	-
.XX -	FRAC -
.XXX -	-



CUSTOMER INFORMATION

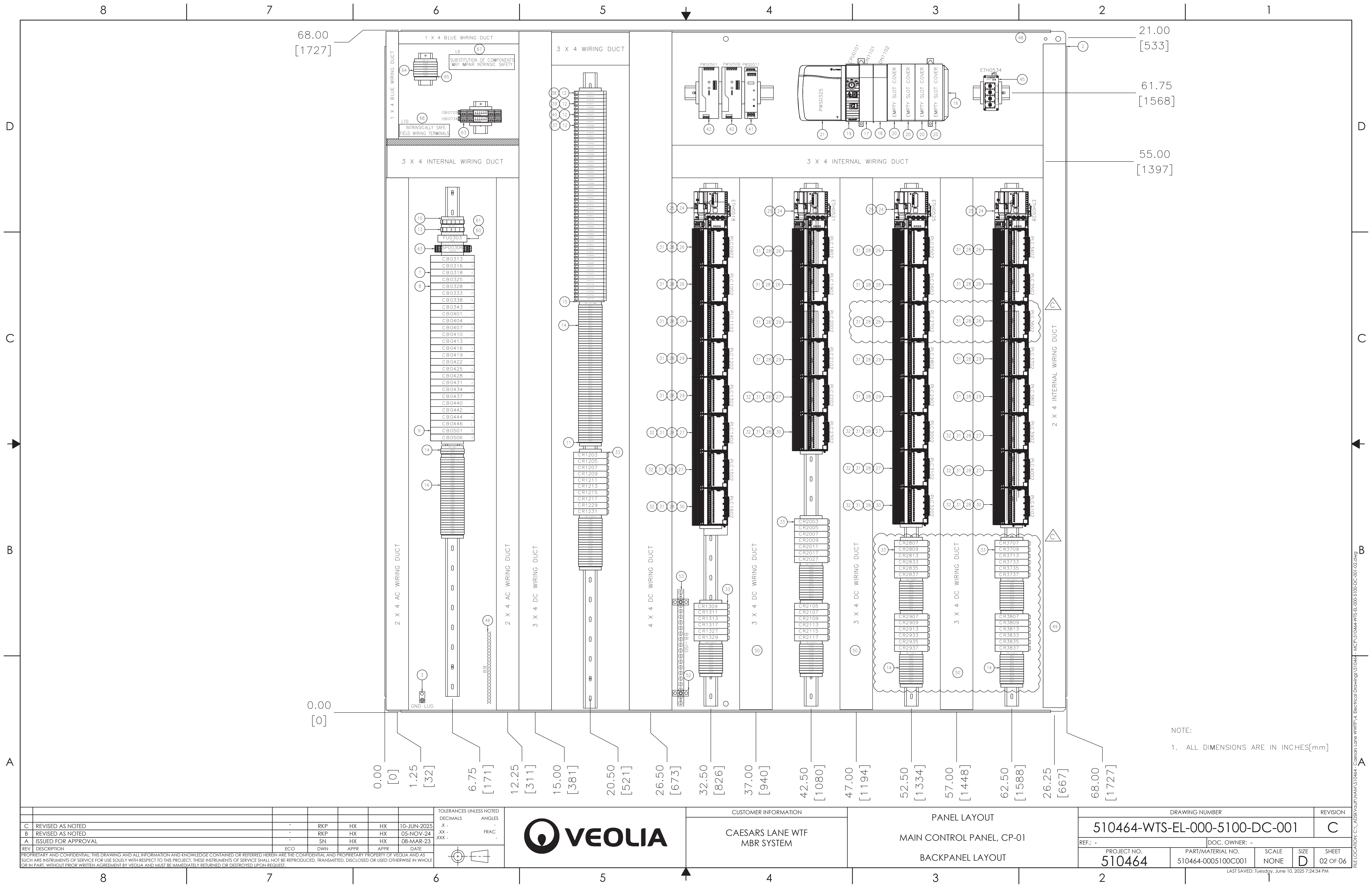
CAESARS LANE WTF
MBR SYSTEM

PANEL LAYOUT

MAIN CONTROL PANEL, CP-01

FRONT DOOR LAYOUT

DRAWING NUMBER					REVISION
510464-WTS-EL-000-5100-DC-001					C
REF.: -		DOC. OWNER: -			
PROJECT NO. 510464	PART/MATERIAL NO. 510464-0005100C001	SCALE NONE	SIZE D	SHEET 01 OF 06	



REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
C	REVISED AS NOTED	-	-	RKP	HX	10-JUN-2025
B	REVISED AS NOTED	-	-	RKP	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	-	SN	HX	08-MAR-23

TOLERANCES UNLESS NOTED	DECIMALS	ANGLES
.X -		FRAC.
.XX -		
.XXX -		

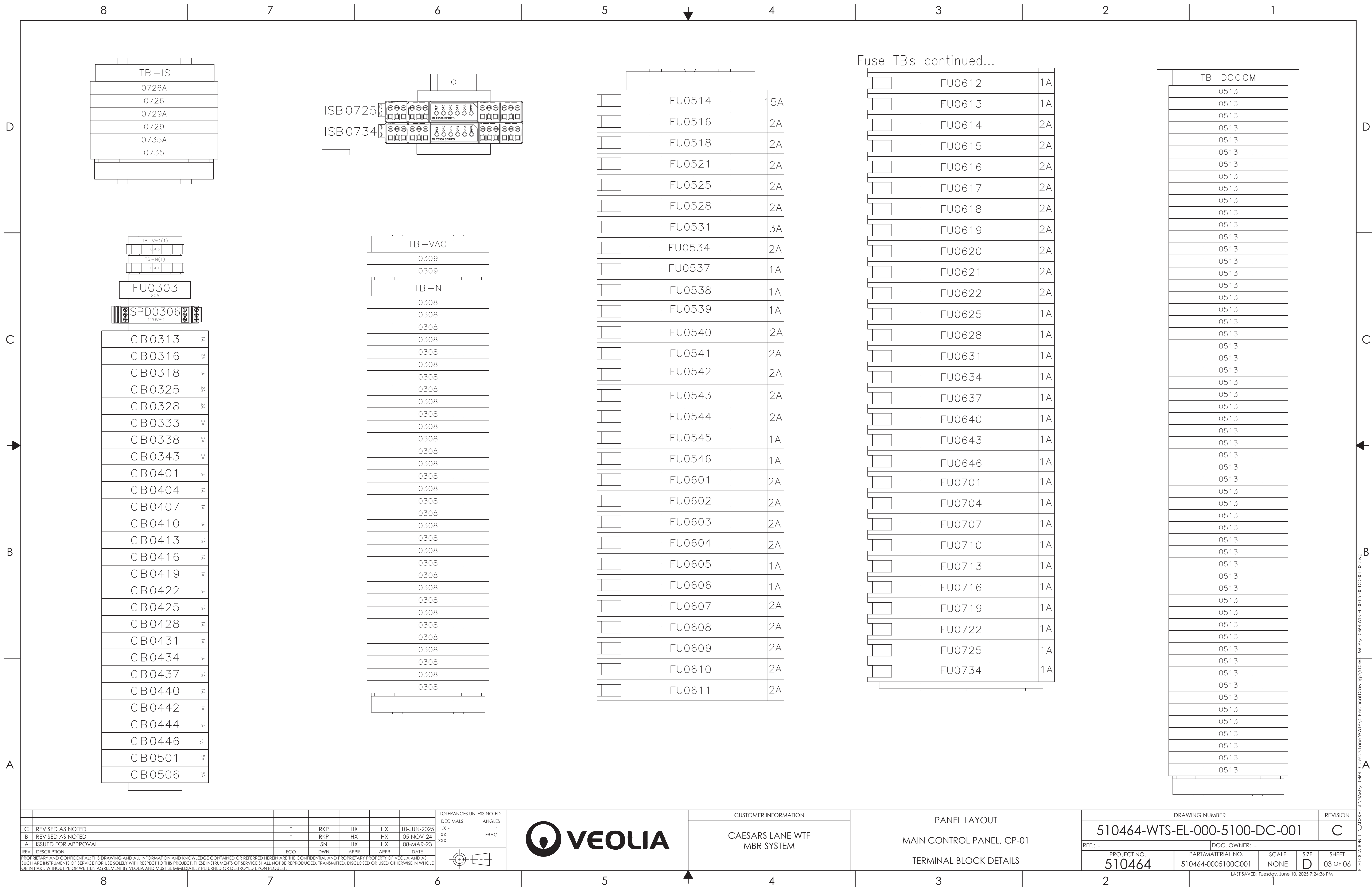


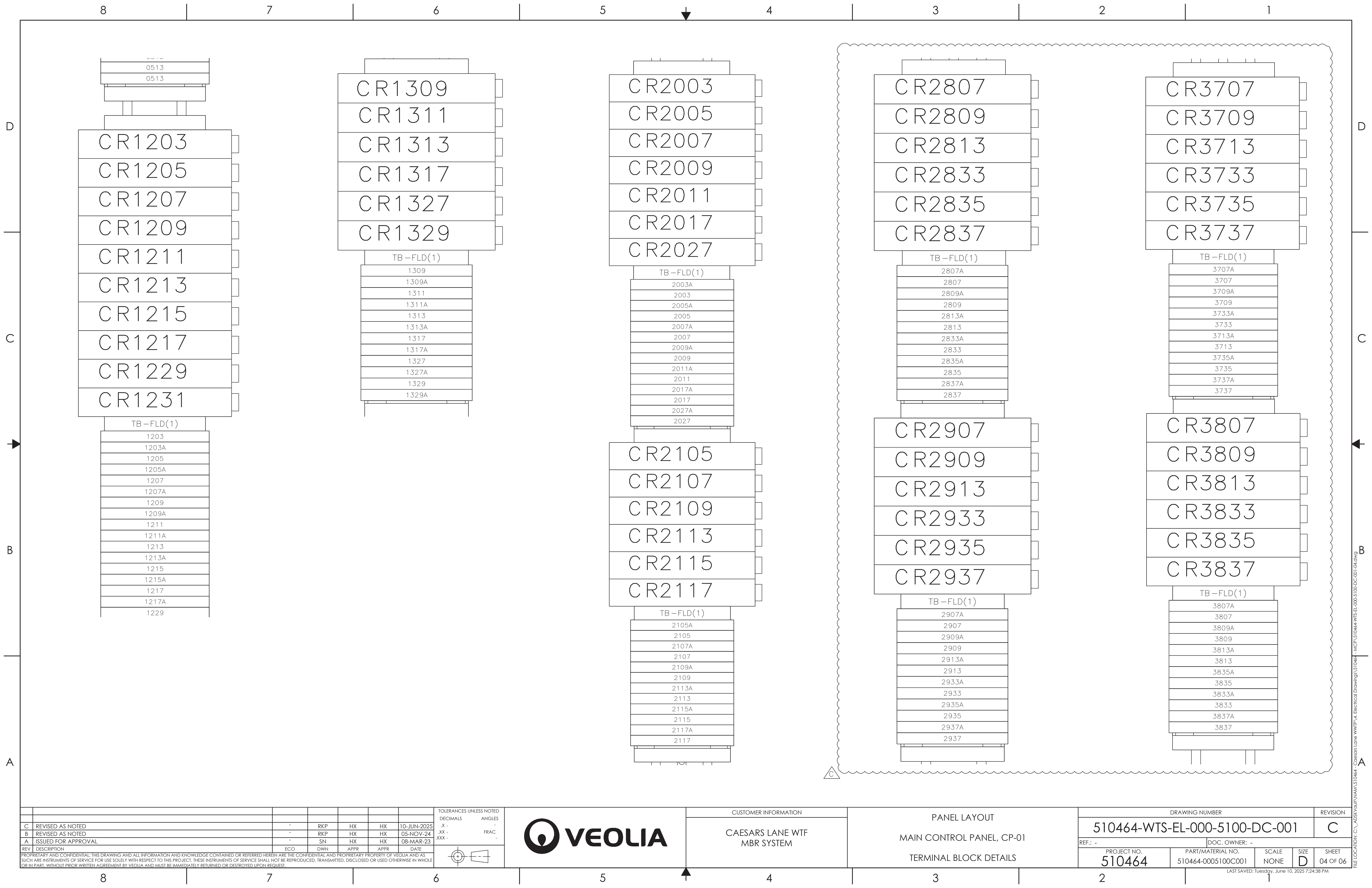
CUSTOMER INFORMATION
CAESARS LANE WTF
MBR SYSTEM

PANEL LAYOUT
MAIN CONTROL PANEL, CP-01
BACKPANEL LAYOUT

DRAWING NUMBER					REVISION
510464-WTS-EL-000-5100-DC-001					C
REF.: -		DOC. OWNER: -			
PROJECT NO. 510464	PART/MATERIAL NO. 510464-0005100C001	SCALE NONE	SIZE D	SHEET 02 OF 06	

LAST SAVED: Tuesday, June 10, 2025 7:24:34 PM





C	REVISED AS NOTED	-	RKP	HX	HX	10-JUN-2025
B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23
REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
PROPRIETARY AND CONFIDENTIAL: THIS DRAWING AND ALL INFORMATION AND KNOWLEDGE CONTAINED OR REFERRED HEREIN ARE THE CONFIDENTIAL AND PROPRIETARY PROPERTY OF VEOLIA AND AS SUCH ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. THESE INSTRUMENTS OF SERVICE SHALL NOT BE REPRODUCED, TRANSMITTED, DISCLOSED OR USED OTHERWISE IN WHOLE OR IN PART, WITHOUT PRIOR WRITTEN AGREEMENT BY VEOLIA AND MUST BE IMMEDIATELY RETURNED OR DESTROYED UPON REQUEST.						

TOLERANCES UNLESS NOTED

DECIMALS ANGLES

FRAC



CUSTOMER INFORMATION

CAESARS LANE WTF

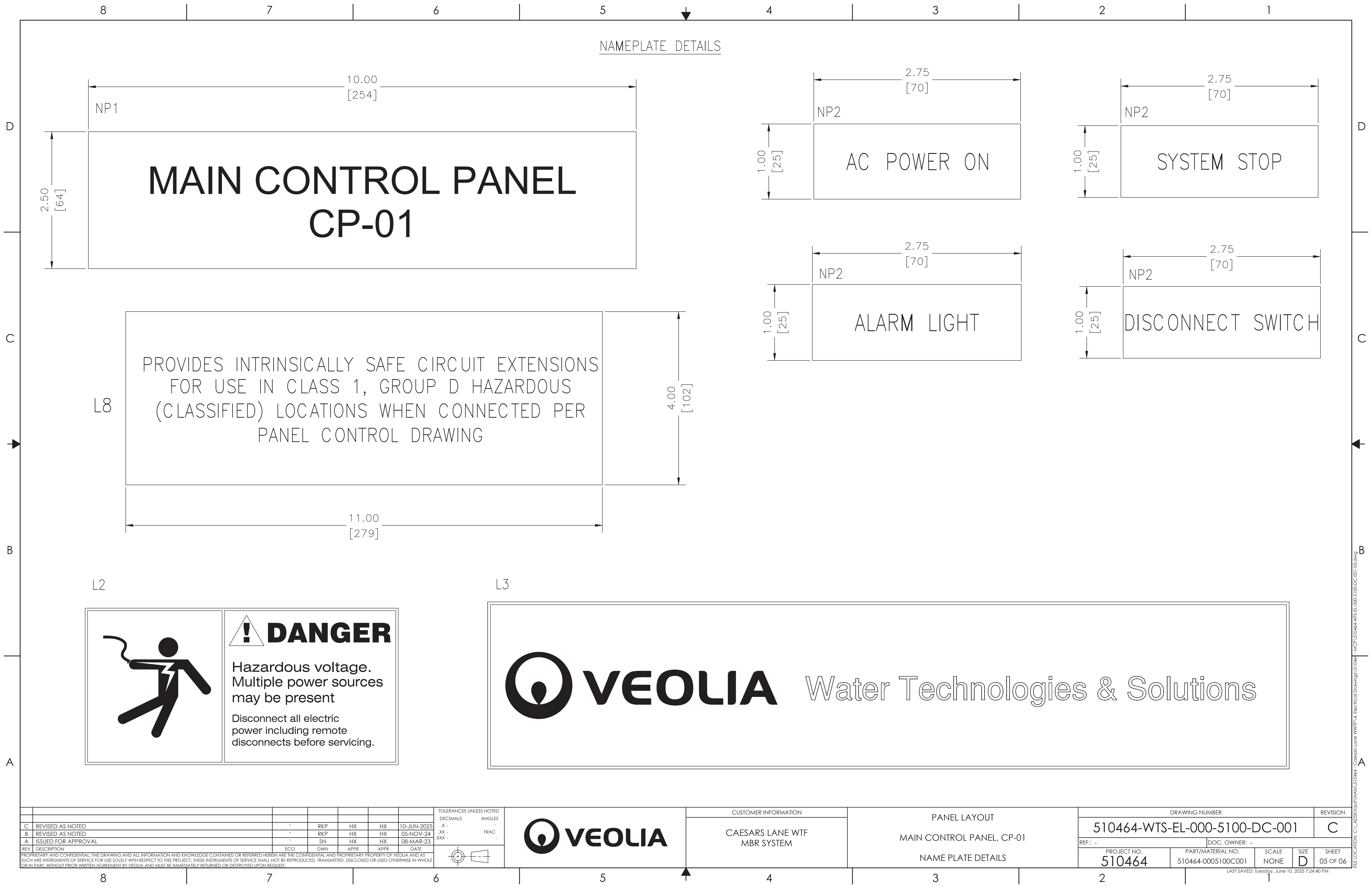
MBR SYSTEM

PANEL LAYOUT

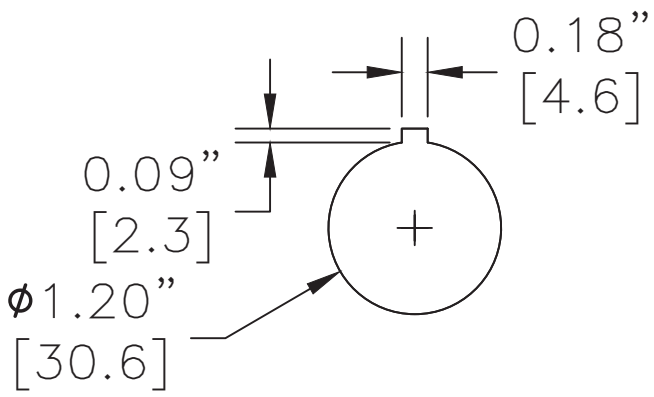
MAIN CONTROL PANEL, CP-01

TERMINAL BLOCK DETAILS

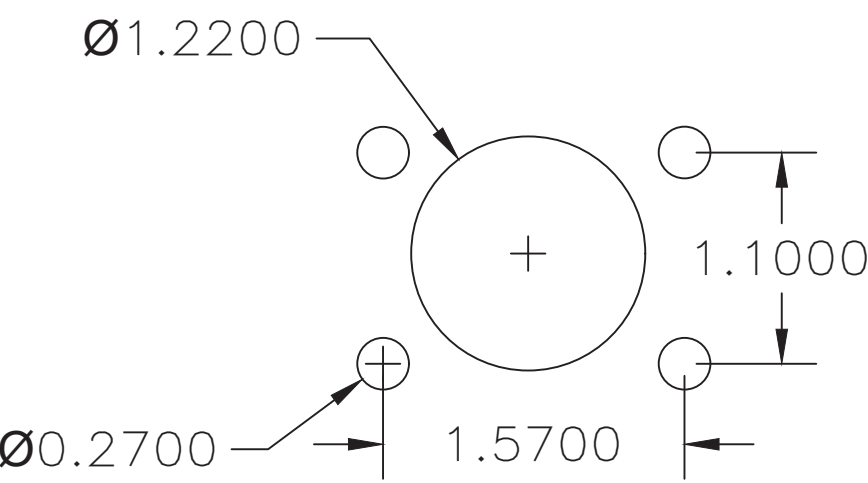
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PROJECT NO.	PART/MATERIAL NO.	SCALE	SIZE	SHEET	
510464	510464-0005100C001	NONE	D	04 OF 06	



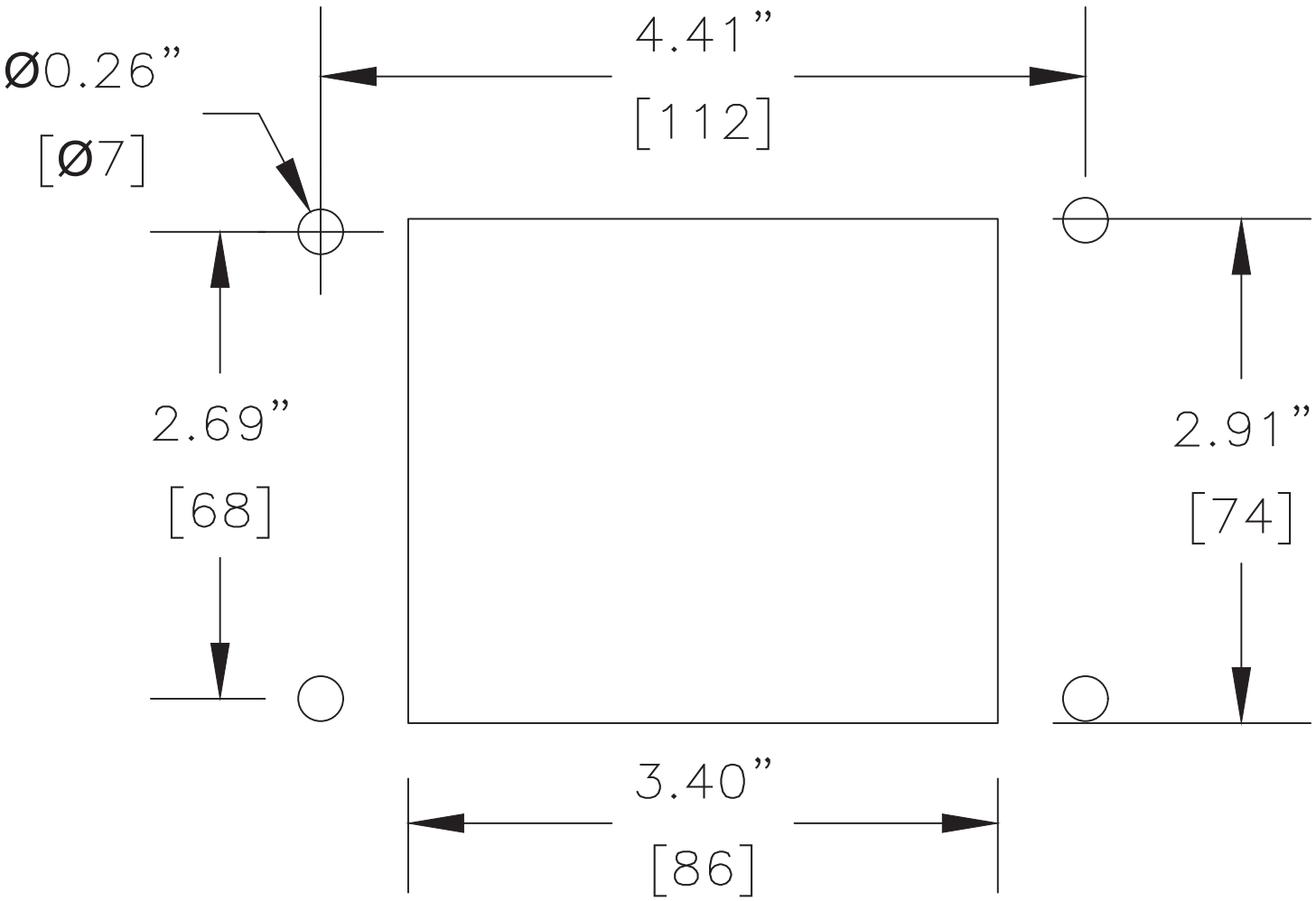
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MANUFACTURING ONLY



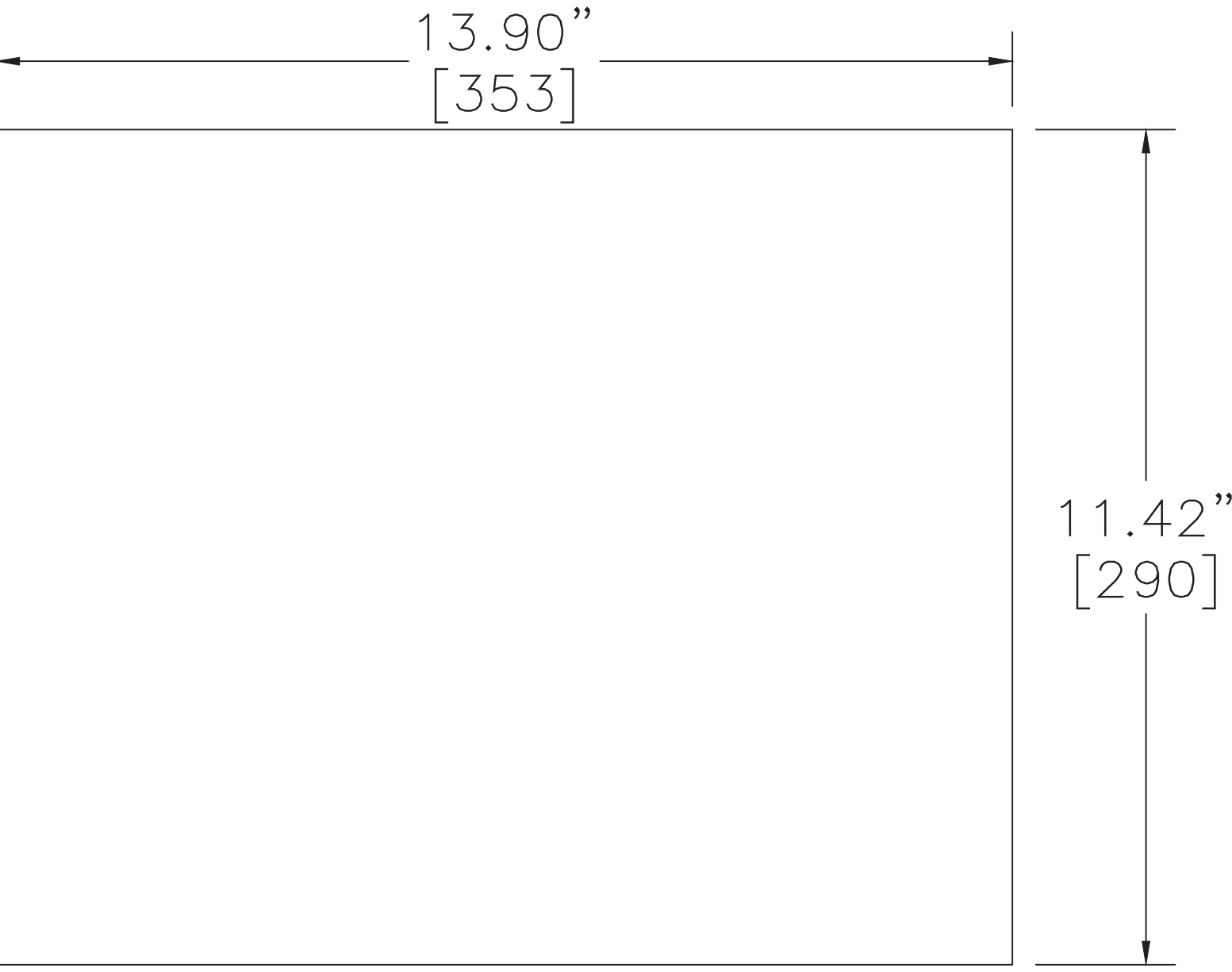
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AB PT#
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DETAIL B
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DETAIL C

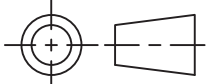


DETAIL D

REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
C	REVISED AS NOTED	-	RKP	HX	HX	10-JUN-2025
B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

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TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
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.XX -	FRAC
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CUSTOMER INFORMATION

CAESARS LANE WTF
MBR SYSTEM

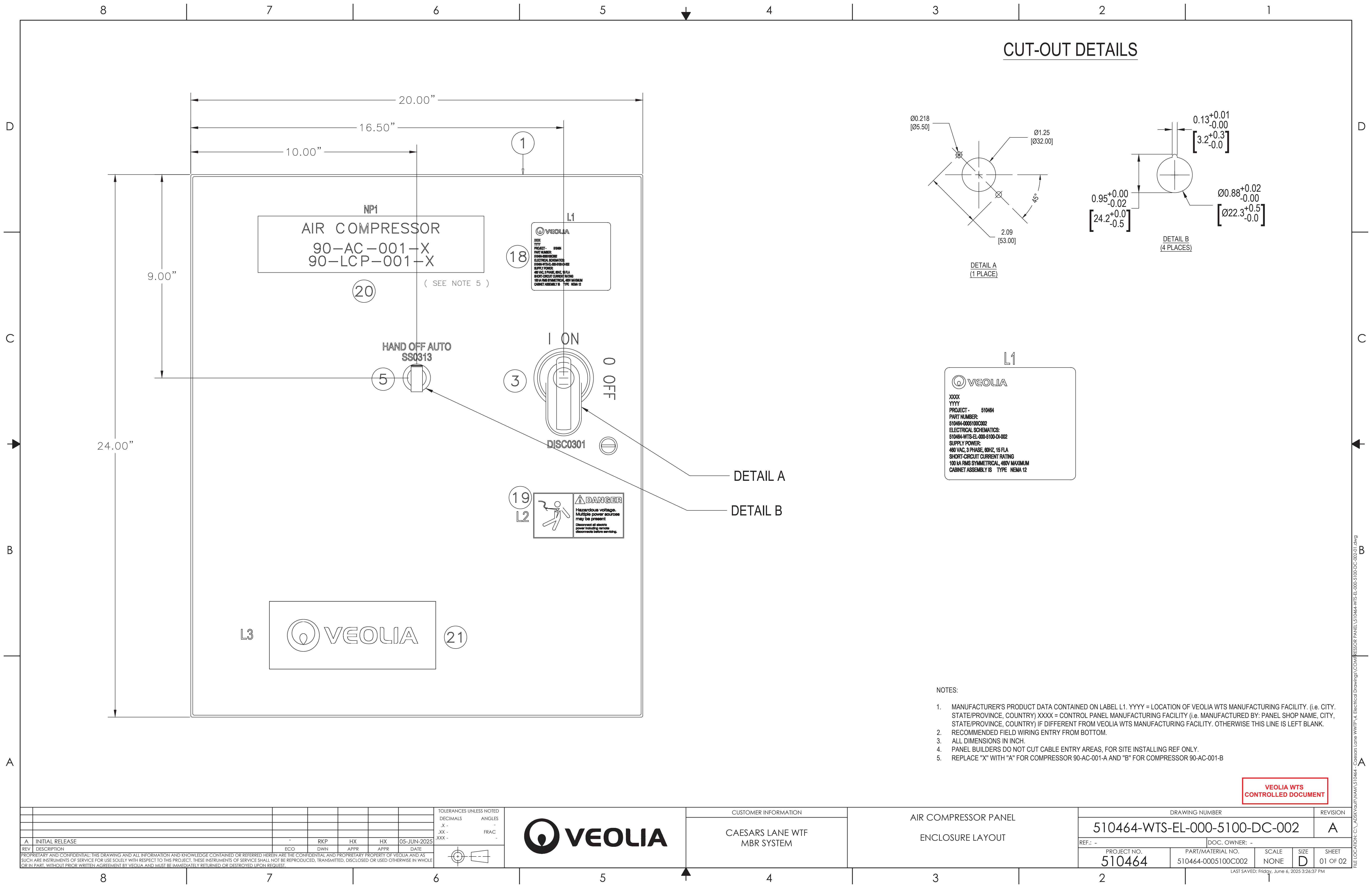
PANEL LAYOUT

MAIN CONTROL PANEL, CP-01

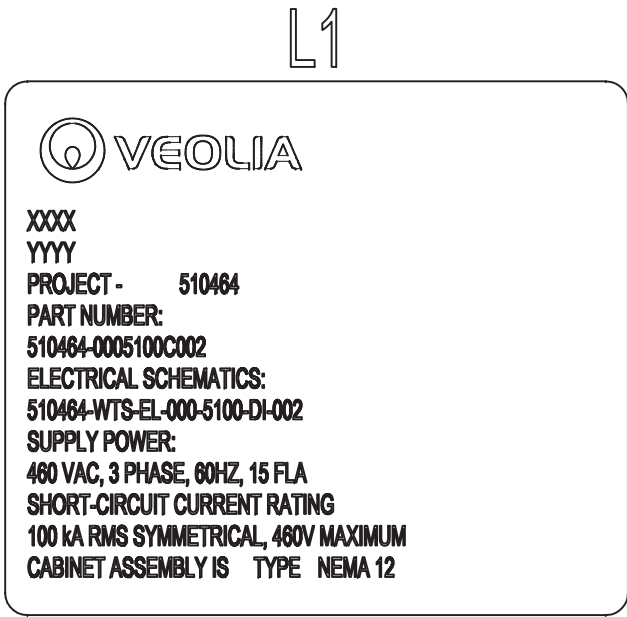
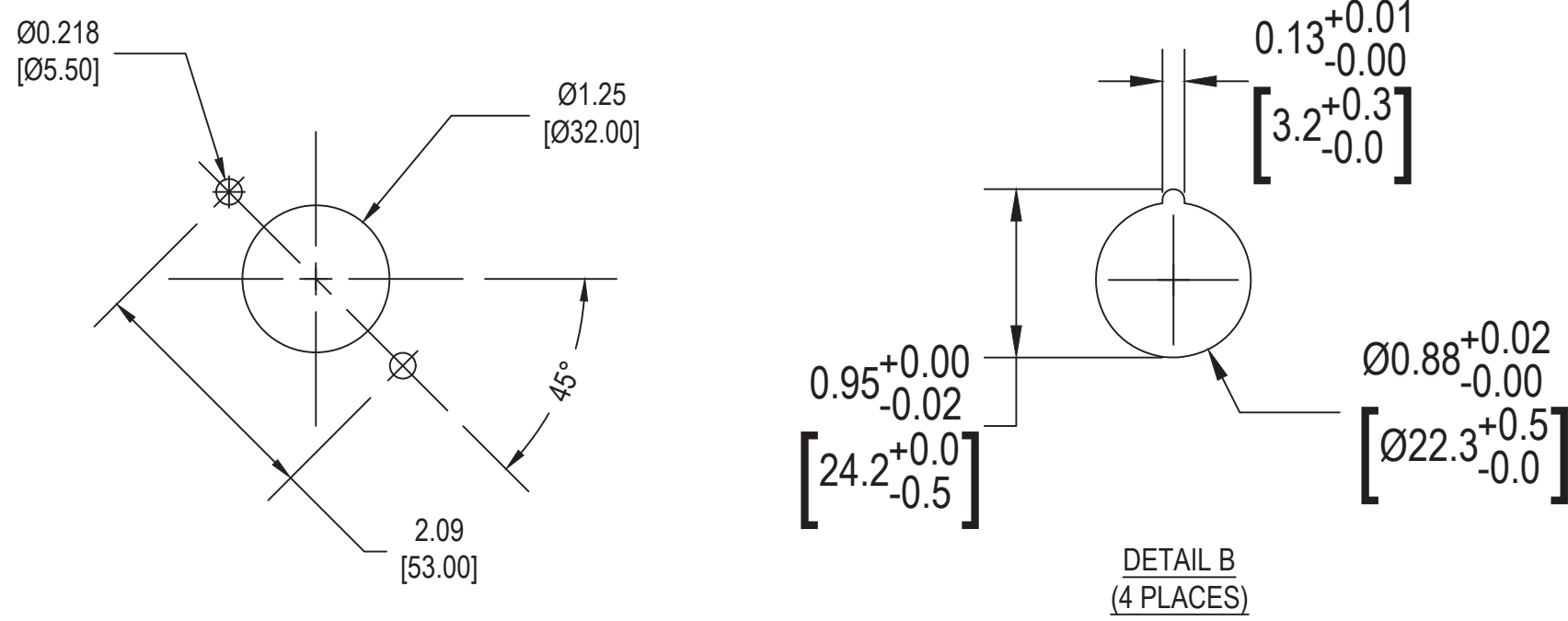
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REF.: -			DOC. OWNER: -		
PROJECT NO. 510464		PART/MATERIAL NO. 510464-0005100C001		SCALE NONE	SIZE D
				SHEET 06 OF 06	

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CUT-OUT DETAILS



- NOTES:
- 1. MANUFACTURER'S PRODUCT DATA CONTAINED ON LABEL L1. YYYY = LOCATION OF VEOLIA WTS MANUFACTURING FACILITY. (i.e. CITY, STATE/PROVINCE, COUNTRY) XXXX = CONTROL PANEL MANUFACTURING FACILITY (i.e. MANUFACTURED BY: PANEL SHOP NAME, CITY, STATE/PROVINCE, COUNTRY) IF DIFFERENT FROM VEOLIA WTS MANUFACTURING FACILITY. OTHERWISE THIS LINE IS LEFT BLANK.
 - 2. RECOMMENDED FIELD WIRING ENTRY FROM BOTTOM.
 - 3. ALL DIMENSIONS IN INCH.
 - 4. PANEL BUILDERS DO NOT CUT CABLE ENTRY AREAS, FOR SITE INSTALLING REF ONLY.
 - 5. REPLACE "X" WITH "A" FOR COMPRESSOR 90-AC-001-A AND "B" FOR COMPRESSOR 90-AC-001-B

VEOLIA WTS
CONTROLLED DOCUMENT

REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
A	INITIAL RELEASE	-	RKP	HX	HX	05-JUN-2025

TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
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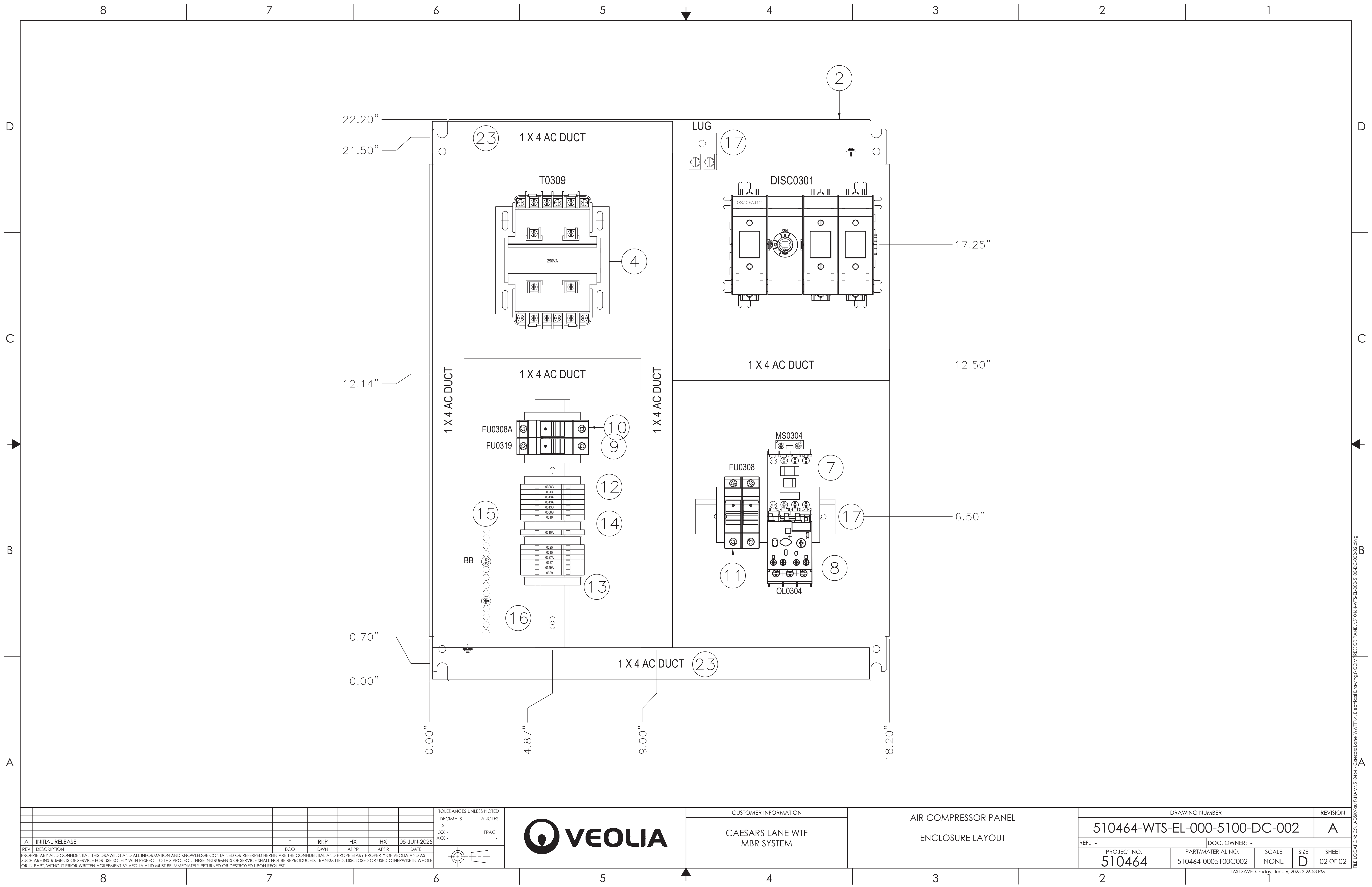
CUSTOMER INFORMATION

CAESARS LANE WTF
MBR SYSTEM

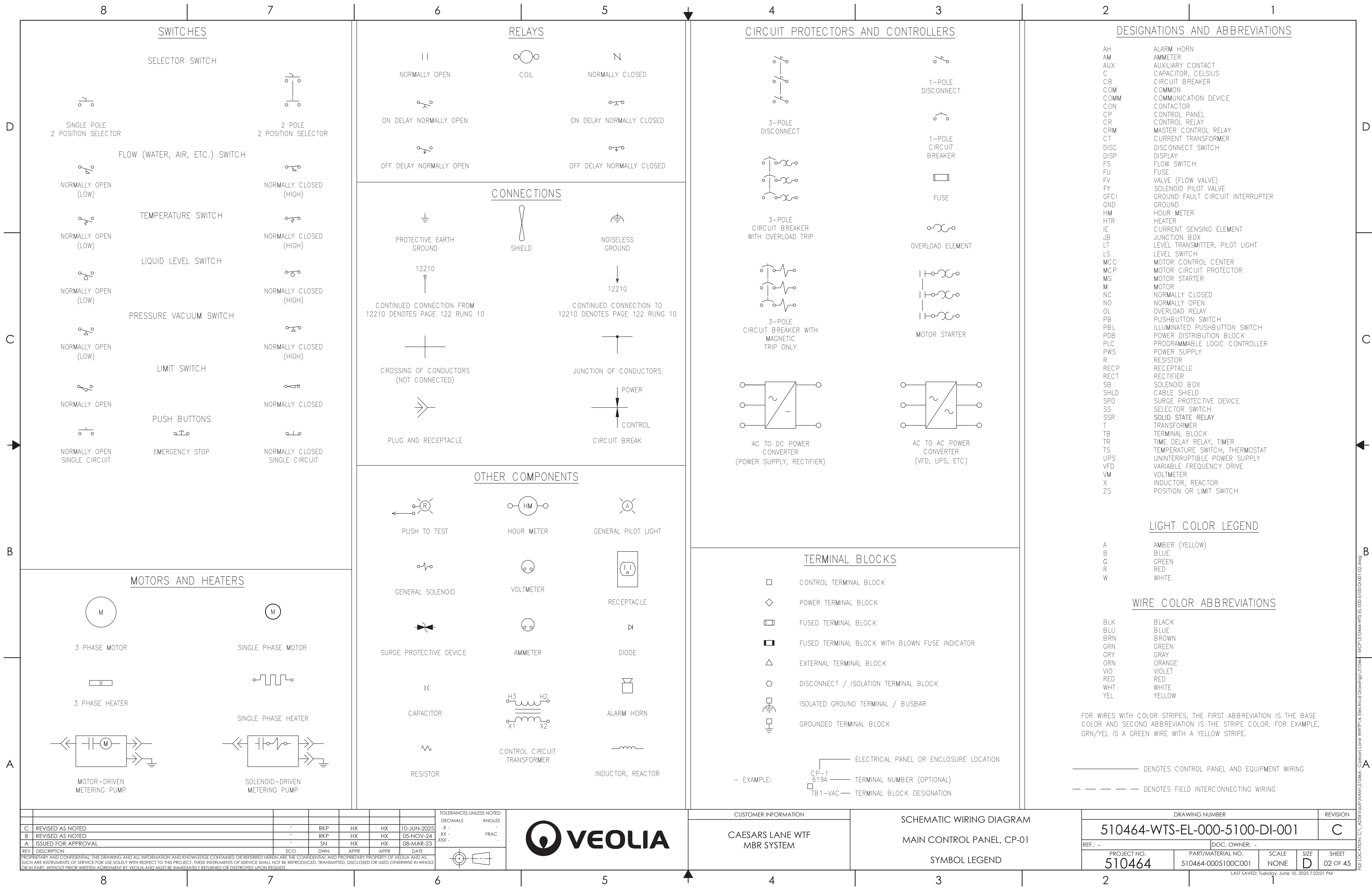
AIR COMPRESSOR PANEL

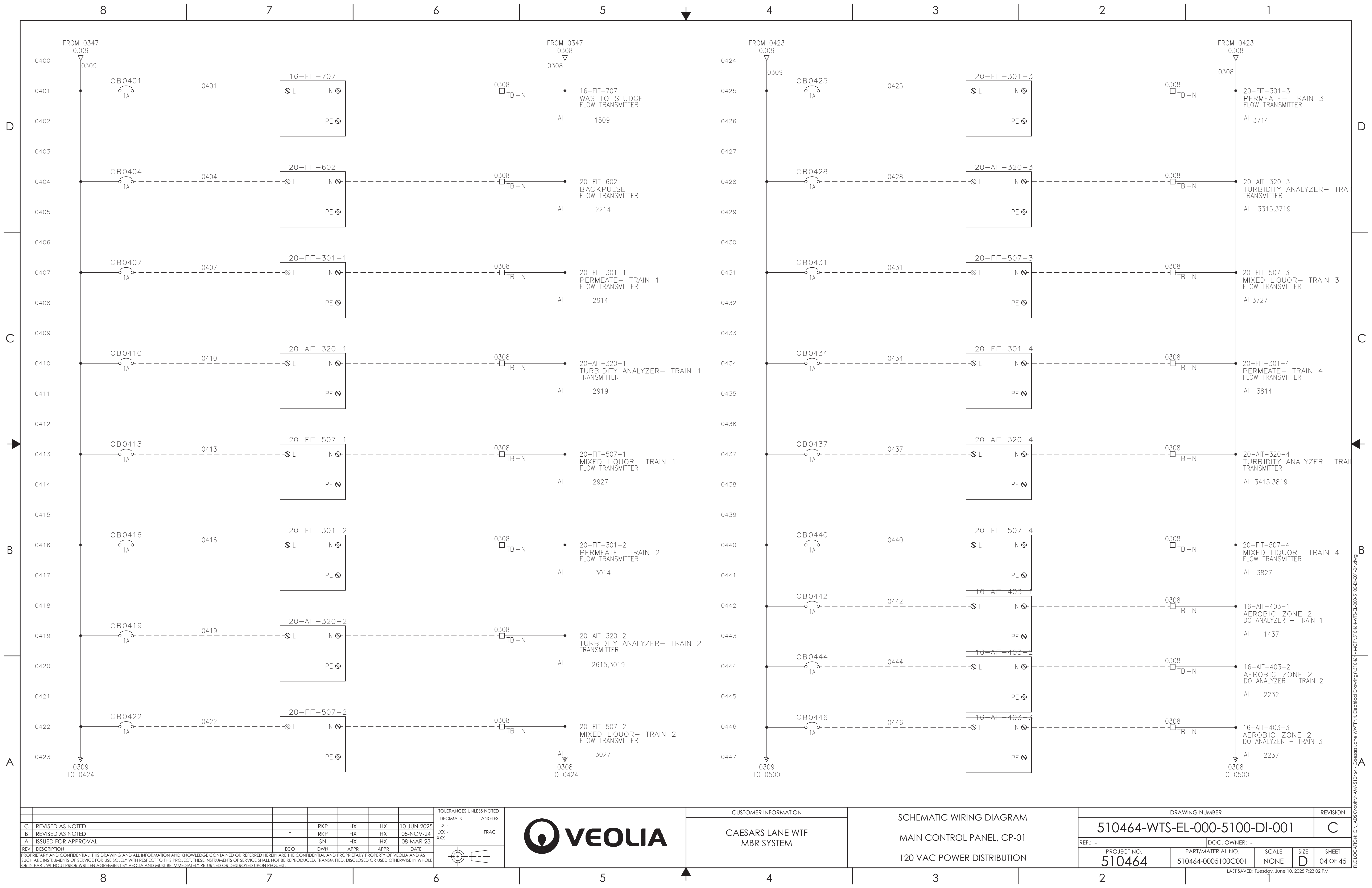
ENCLOSURE LAYOUT

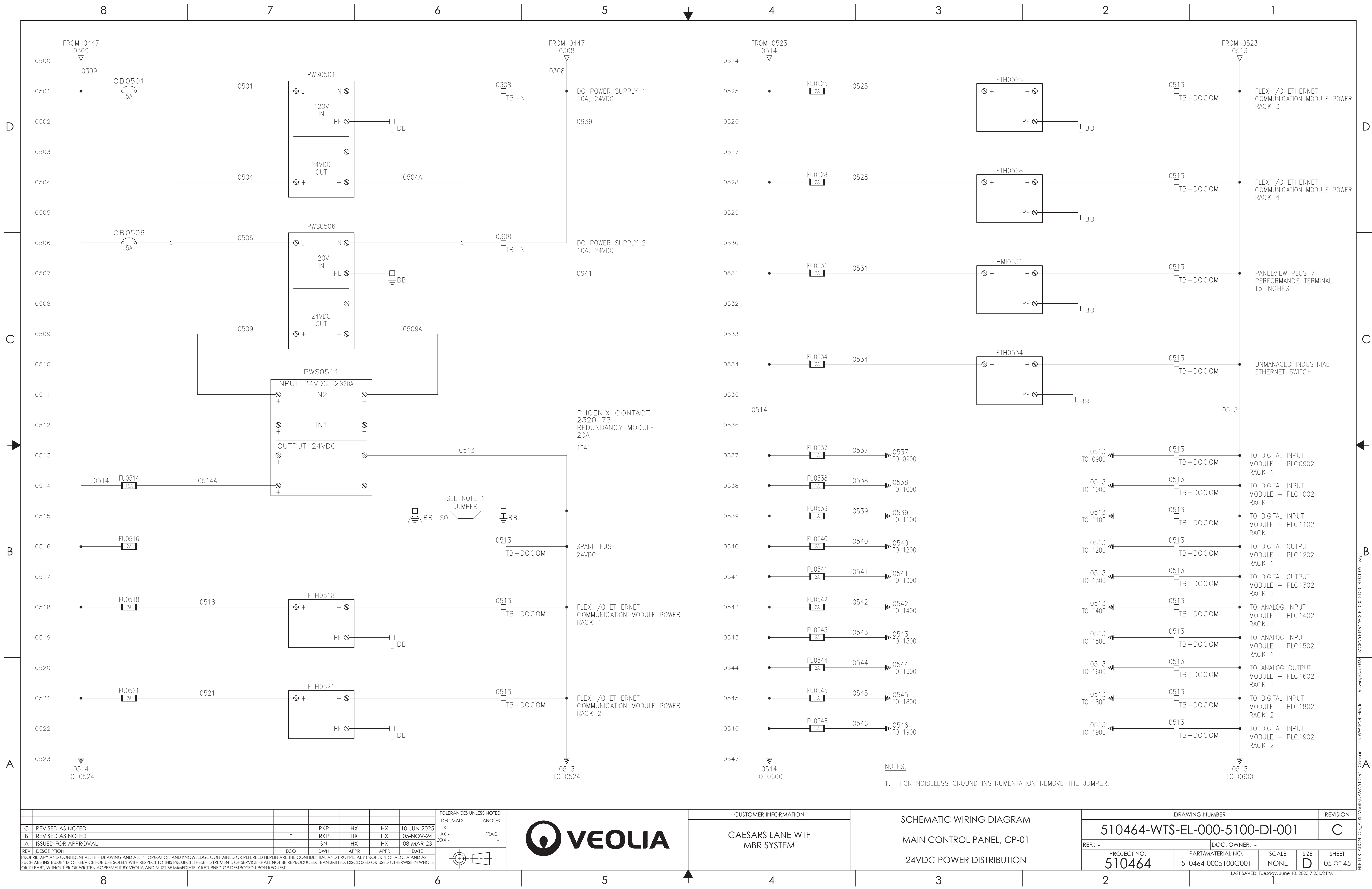
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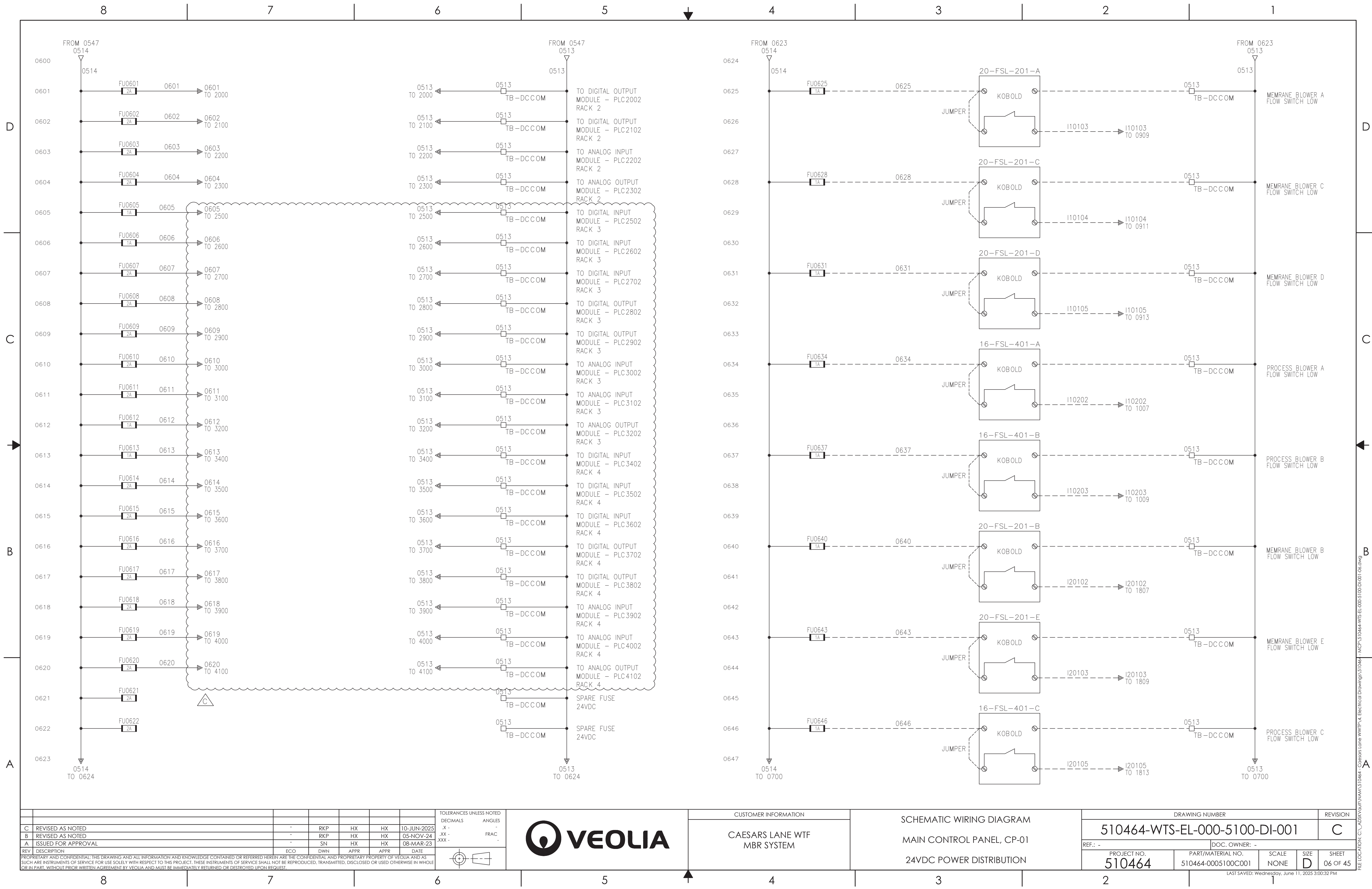


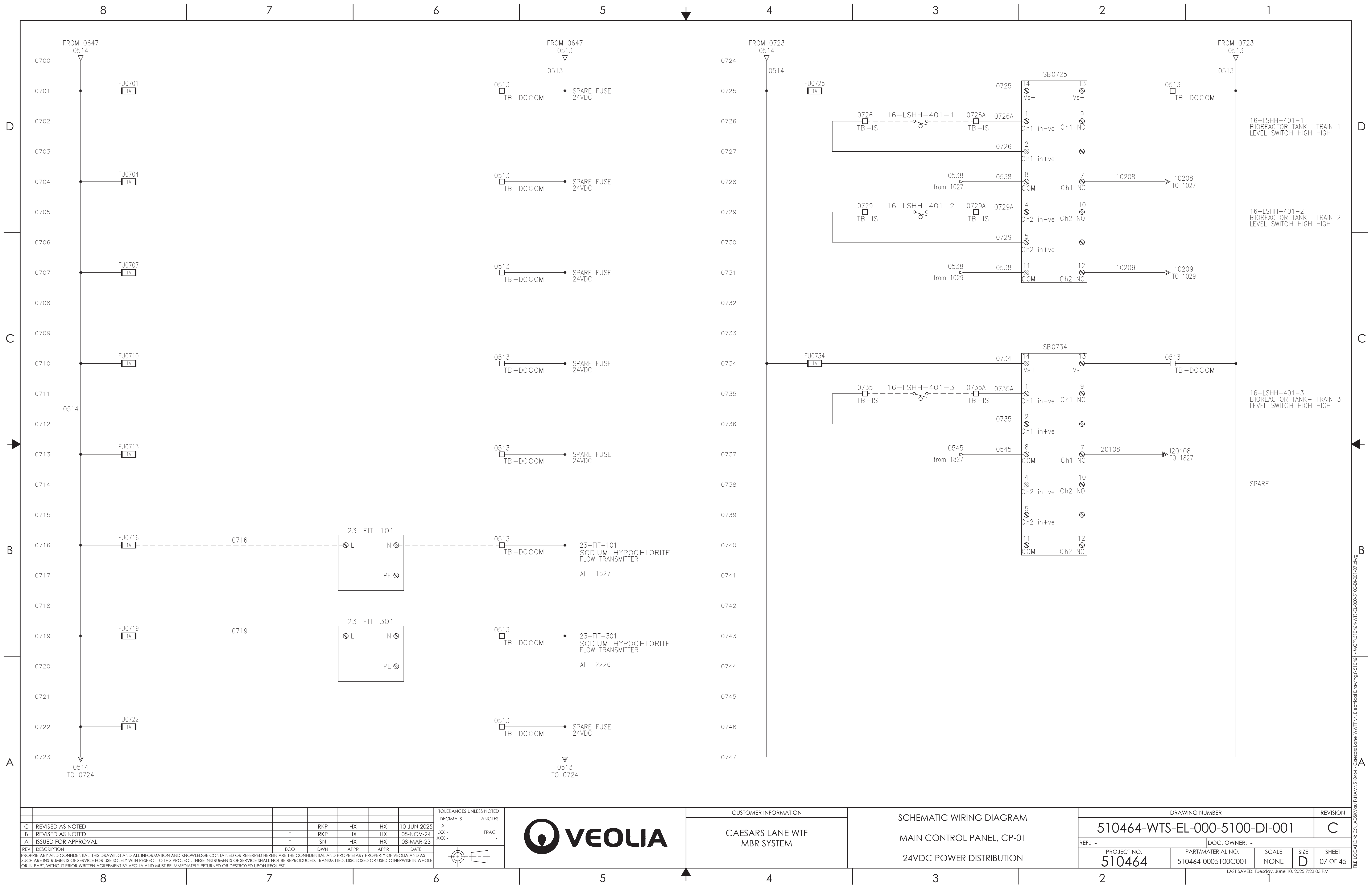
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	PREVAILING CODES AND SPECIFICATIONS NFPA 70 – NATIONAL ELECTRICAL CODE UL 508A – INDUSTRIAL CONTROL PANELS CONTROL PANELS ARE TO BE UL LISTED						RUNG NUMBERS USED WHEN A COMMON DRAWING NUMBER IS ASSIGNED FOR SEVERAL SHEETS – FIRST CHARACTER: SYSTEM – SECOND AND THIRD CHARACTERS:SHEET NUMBER – FOURTH AND FIFTH CHARACTERS: RUNG IDENTIFIER – EXAMPLE: 1 1 2 0 4 SYSTEM (OPTIONAL): 1 SHEET: 12 RUNG: 04						TERMINAL BLOCKS DESIGNATIONS TB–VAC(x) UNGROUNDED AC POWER TB–N(x) GROUNDED AC POWER TB–MCR(x) MASTER CONTROL RELAY WIRING TB–VDC(x) UNGROUNDED DC CONTROL POWER TB–DCCOM(x) GROUNDED DC CONTROL POWER TB–DI(YZ) DISCRETE INPUT SIGNAL WIRING TB–DO(YZ) DISCRETE OUTPUT SIGNAL WIRING TB–AI(YZ) ANALOG INPUT SIGNAL WIRING TB–AO(YZ) ANALOG OUTPUT SIGNAL WIRING TB–INT(x) OTHER INTERNAL WIRING TB–FLD(x) OTHER FIELD WIRING (x) DENOTES SUB–GROUPS (Y) DENOTES RACK NUMBER (Z) DENOTES SLOT NUMBER					
C	CONTROL PANEL CONSTRUCTION AND INTERNAL WIRING • DESIGN, MATERIAL SELECTION, AND WORKMANSHIP SHALL RESULT IN A NEAT APPEARANCE OUTSIDE AND INSIDE, WITH NO WELDS, RIVETS OR BOLT HEADS APPARENT FROM THE FRONT FACE OF THE BOARDS AND ALL EXTERIOR SURFACES TRUE AND SMOOTH. • ANY INSTRUMENTS, RELAYS, AND OTHER DEVICES MOUNTED ON OR WITHIN THE ENCLOSURE SHALL BE CLEARLY TAGGED WITH ENGRAVED 1/16” THICK LAMINATED PLASTIC MARKERS. MARKERS SHALL BE SECURED TO THE MOUNTING PANEL OR INSIDE OF THE ENCLOSURE WITH DOUBLE FACED TAPE. MARKERS SHALL NOT BE MOUNTED ON THE COMPONENT OR WIRE DUCT. • ALL WIRES SHALL TERMINATE WITH FORK TYPE INSULATED WIRE COMPRESSION TYPE LUGS. UNLESS THE DEVICE IS EQUIPPED WITH A WIRE CLAMP, PRESSURE PLATE, OR TUBULAR SCREW CLAMP. • ALL INCOMING AND OUTGOING FIELD CONTROL WIRING SHALL TERMINATE AT TERMINAL BLOCKS. • NO MORE THAN 2 WIRES AT ANY SINGLE TERMINAL. • ALL CONDUCTORS SHALL RUN CONTINUOUSLY, SPLICING IS NOT ACCEPTABLE. • MOUNTING OF RELAY SOCKETS, TERMINAL BLOCKS, FUSED TERMINAL BLOCKS/SWITCHES AND THEIR MOUNTING TRACKS SHALL BE ON ONE PIECE SPACERS OR UNISTRUT. THE SPACERS SHALL BE OF A HEIGHT TO ALLOW WIRE ENTERING THESE DEVICES NOT TO BE MORE THAN 1 INCH BELOW COVERS OF THE PLASTIC WIREWAY ADJACENT TO THESE DEVICES. • GROUND ALL PANEL METAL TO THE PANEL’S EARTH–GROUND BUS. • WHERE WIRING CROSSES HINGED SURFACE, PROVIDE A 18" "U" SHAPE HINGE LOOP OF EXTRA FLEXIBLE WIRING • VEOLIA WTS DESIGN GUIDE E000001–WTS–EL–T02–8533–PR–012 –ELECTRICAL DEVICE DESIGNATIONS AND ABBREVIATIONS. • VEOLIA WTS SPECIFICATION E000001–WTS–EL–T02–8533–SP–025 –WIRING OF INDUSTRIAL CONTROL PANELS. • VEOLIA WTS SPECIFICATION E000001–WTS–EL–SYS–EN33–SP–005 –ELECTRICAL AND CONTROL SAFETY FEATURES. • VEOLIA WTS SPECIFICATION E000001–WTS–EL–SYS–EN33–SP–007 –ELECTRICAL PANEL MARKINGS & NAMEPLATES. • VEOLIA WTS SPECIFICATION E000001–WTS–EL–T02–8533–PR–001 –CONTROL PANEL AND WIRING DIAGRAM.						TERMINAL AND WIRE NUMBERS ALL WIRE SHALL BE TAGGED AT TERMINATIONS WITH WIRE NUMBERS SHOWN ON DRAWINGS WITH ONE PIECE HEAT SHRINK TUBULAR WIRE MARKERS. MARKERS SHALL BE BRADY SLEEVE COMPUTER–PRINTED TYPE B–321 HEAT–SHRINK POLYOLEFIN STOCK NO. HCPS.9–3336W OR APPROVED EQUAL. USE THE FOLLOWING SCHEME FOR WIRES AND TERMINALS NOT CONNECTED TO PLC I/O • THE RUNG NUMBER IS USED TO IDENTIFY A WIRE AND IT’S CORRESPONDING TERMINALS • WHEN THERE IS NO TERMINAL NUMBER SHOWN, THE TERMINAL NUMBER IS THE SAME AS THE WIRE NUMBER • WHERE THERE IS MORE THEN ONE WIRE ON A RUNG, THE OTHER WIRES ARE IDENTIFIED USING THE RUNG NUMBER FOLLOWED BY A LETTER. • USE THE FOLLOWING SCHEME FOR WIRES AND TERMINALS CONNECTED TO PLC I/O – FIRST CHARACTER: I FOR INPUTS, O FOR OUTPUTS – SECOND * CHARACTER: RACK NUMBER – THIRD AND FOURTH CHARACTER: SLOT NUMBER – FIFTH AND SIXTH CHARACTER: POINT NUMBER – EXAMPLE: I *1 0 3 0 0 TYPE: INPUT RACK: 1 SLOT: 03 POINT: 00 * = 2 CHARACTERS IF THERE ARE MORE THAN 9 RACKS						EQUIPMENT WIRING AND RACEWAYS • COMPLY WITH VEOLIA DESIGN GUIDE CONTROL PANEL & WIRING DIAGRAM E000001–WTS–EL–T02–8533–PR–001. • USE RIGID GALVANIZED STEEL CONDUIT(TYPE RMC) WITH LISTED FITINGS. • USE LIQUID–TIGHT FLEXIBLE METAL CONDUIT (TYPE LFMC) WITH LISTED FITTINGS. • CONDUCTOR AMPACITY IS FOR A MAXIMUM AMBIENT TEMPERATURE OF 40°C (104°F). • WITH THE FOLLOWING EXCEPTIONS: • VEOLIA WTS SPECIFICATION E000001–WTS–EL–T02–8533–SP–002 –WIRING OF EQUIPMENT ASSEMBLIES. • VEOLIA WTS SPECIFICATION E000001–WTS–EL–SYS–EN33–SP–009 –WIRING OF INSTRUMENTATION AND COMMUNICATION. • VEOLIA WTS SPECIFICATION E000001–WTS–PR–T02–8521–PR–001 –EQUIPMENT AND INSTRUMENT TAGGING.					
	WIRING CONTROL WIRING SHALL BE #16 AWG STRANDED COPPER, THHN & THWN, 600 VOLT INSULATION., 90 DEG. C, ALL WIRING SHALL BE COLOR CODED AS FOLLOWS: WIRE COLORS GREEN WITH YELLOW STRIPE (OR GREEN) WHITE BLACK RED BLUE WHITE WITH BLUE STRIPE ORANGE WHITE(+), BLACK(–) WHITE WITH ORANGE STRIPE LIGHT BLUE CONDUCTOR TYPE EQUIPMENT GROUNDING AND BONDING CONDUCTORS GROUNDED AC (L2/NEUTRALS) CURRENT–CARRYING CONDUCTORS UNGROUNDED AC (L1) OR DC POWER CIRCUITS CONDUCTORS UNGROUNDED AC CONTROL CIRCUITS CONDUCTORS UNGROUNDED DC CONTROL CIRCUITS CONDUCTORS GROUNDED DC (OVDC) CONTROL CIRCUIT CONDUCTORS UNGROUNDED CONDUCTORS FOR AC AND DC REMOTE CONTROL CIRCUITS ANALOG TWISTED SHIELD PAIR CABLE GROUNDED CURRENT CARRYING CONDUCTORS FOR REMOTE CONTROL CIRCUITS INTRINSICALLY SAFE WIRING						EQUIPMENT AND INSTRUMENT TAG NUMBERS PROCESS AREA EQUIPMENT ABBREVIATION/INSTRUMENT FUNCTION EQUIPMENT NUMBER/INSTRUMENT LOOP NUMBER MULTIPLE INSTRUMENT IDENTIFIER (IF NECESSARY) IDENTICAL SKID/TRAIN IDENTIFIER (IF NECESSARY) 11–XXX–222A–3						NOISELESS GROUND FOR INSTRUMENTATION • A CONTROL PANEL MAY INCLUDE A SEPARATE NOISELESS GROUND BUS THAT PROVIDES A COMMON GROUND REFERENCE POINT FOR INSTRUMENTATION CIRCUITS AND SHIELDS. WHERE THE NOISELESS GROUND BUS IS INSTALLED FROM THE PANEL ON WHICH IS MOUNTED, THERE IS A BONDING JUMPER FROM THIS GROUND BUS TO A POINT ON THE PANEL NEAR THE GROUND BUS. IF POSSIBLE, THE NOISELESS GROUND BUS SHOULD BE CONNECTED TO AN EXTERNAL GROUND THAT IS FREE OF ELECTRICAL NOISE. TO PROVIDE LOW IMPEDANCE, THIS GROUND CONNECTION SHOULD USE COPPER BRAID, COPPER STRIP, OR A 6 AWG OR LARGER WIRE. IF THERE IS AN EXTERNAL GROUND CONNECTION, THE WIRE FROM THE GROUND BUS TO THE PANEL MUST BE REMOVED (THE JUMPER MAY BE LABELED "REMOVE THIS WIRE WHEN USING AN ISOLATED GROUND SYSTEM"). • VEOLIA WTS SPECIFICATION E000001–WTS–EL–T02–8533–SP–020–GROUNDING IN INDUSTRIAL CONTROL PANELS.					
B	TESTING PRE–VEOLIA INSPECTION • WHEN ALL WIRING OF ELECTRICAL SYSTEM IS COMPLETE, THE FABRICATOR SHALL TEST EACH CIRCUIT FOR CONTINUITY, SHORT CIRCUIT AND FAULT GROUNDS AND COMPLETE WIRING INSPECTION CHECKLIST E000001–WTS–EL–PRD–PHAS–DA–CHK–02. FACILITIES • PANEL VENDOR SHALL SUPPLY A WORK/TEST AREA FOR PANEL CHECK–OUTS. FOR WALL MOUNTED ENCLOSURES, THIS AREA SHALL INCLUDE A STAND OR PLATFORM TO MOUNT AND SUPPORT THE PANEL VERTICALLY AT BENCH HEIGHT. • THE WORK/TEST AREA SHALL BE ISOLATED/SEPARATED FROM THE PANEL ASSEMBLY/MFG. AREA SO TESTING CAN BE DONE WITHOUT INTERRUPTION. • THE WORK/TEST ARE SHALL BE PROVIDED WITH ADEQUATE LIGHTING COMPLETE WITH TABLE/BENCH FOR INSPECTORS USE TO WORK WITH TEST EQUIPMENT AND DRAWINGS. VEOLIA INSPECTION • PANEL VENDOR SHALL SUBJECT TO BACK–CHARGES, IF AFTER ARRIVAL OF VEOLIA INSPECTOR(S) FOR INSPECTION, IS DETERMINED THAT PANEL VENDOR HAS NOT PREPARED FOR VEOLIA INSPECTION AND OR NOT COMPLETED "PRE–VEOLIA INSPECTION" OR PROVIDED ITEMS NOTED UNDER "FACILITIES". • AFTER VENDOR CIRCUIT TESTING IS COMPLETE, VEOLIA WILL PERFORM FUNCTION TESTING OF THE CONTROL PANEL COMPONENTS AS A SYSTEM TO CONFIRM OPERATION AND MAKE CALIBRATION ADJUSTMENT, IF NECESSARY. PANEL VENDOR SHALL PROVIDE TEMPORARY POWER AND/OR INSTRUMENT QUALITY AIR SUPPLY AS REQUIRED BY PANEL DESIGN. PANEL VENDOR SHALL PROVIDE TEMPORARY WIRING INCLUDING BUT NOT LIMITED TO TOGGLE SWITCHES, 120VAC AND/OR 24VDC INDICATING LIGHTS TO FACILITATE THE TESTING. THE PANEL VENDOR WILL ALSO BE RESPONSIBLE FOR CONNECTING VARIOUS WIRE JUMPERS ON THE PANEL FIELD TERMINALS. ALL TEMPORARY TEST WIRING WILL BE REMOVED BY THE VENDOR BEFORE THE PANEL IS SHIPPED. • PANEL VENDOR TO PROVIDE QUALIFIED QUALITY CONTROL INSPECTOR/TESTER TO VEOLIA PERSONNEL WITH FUNCTION TESTING OF THE CONTROL PANEL. PANEL VENDOR’S PERSONNEL MUST BE FAMILAR WITH CONTROL PANEL FABRICATION, WIRING INSTALLATION/CIRCUITRY, AND FULLY UNDERSTAND VEOLIA SCHEMATIC WIRING DIAGRAMS. PANEL VENDOR’S PERSONNEL TO BE AVAILABLE TO ASSIST VEOLIA INSPECTOR AS NEEDED.						DESIGNATIONS FOR ELECTRICAL PANELS OR ENCLOSURES THE FOLLOWING DESIGNATIONS ARE USED IN THIS ELECTRICAL SCHEMATIC TO IDENTIFY THE LOCATION OF EACH TERMINAL BLOCK DESIGNATION ON SCHEMATIC DESCRIPTION COMPLETE TAG NUMBER CP–01 MAIN CONTROL PANEL CP–01						FIELD INTERCONNECTING WIRING • FIELD WIRING MATERIALS AND INSTALLATION LABOR ARE NOT PROVIDED BY VEOLIA. • ALL FIELD CONNECTIONS TO FIELD WIRING TERMINALS IN ENCLOSURES SHALL MEET ANY MARKED REQUIREMENTS FOR WIRE TYPE, TEMPERATURE RATING AND TIGHTENING TORQUE. TYPICALLY STRANDED COPPER CONDUCTORS ARE REQUIRED. TYPICALLY CONDUCTOR AMPACITIES MUST BE CALCULATED AT 60°C FOR TERMINALS RATED FOR LESS THAN 100 AMPS OR AT 75°C FOR TERMINALS RATED FOR 100 AMPS OR MORE. • THE VEOLIA DESIGN IN THIS DRAWING SET IS FOR THE INSTALLATION CONDITIONS SPECIFIED FOR THE VEOLIA EQUIPMENT. ANY CONDUCTOR SIZE, WIRING MATERIAL OR OTHER DESIGN ELEMENT SPECIFIED IN THIS DRAWING SET IS THE MINIMUM REQUIRED BY THE VEOLIA DESIGN FOR THE SPECIFIED INSTALLATION CONDITIONS. THE INSTALLATION LOCATION MIGHT HAVE UNSPECIFIED PROBLEMATIC CONDITIONS SUCH AS ELECTROMAGNETIC INTERFERENCE, HIGH VOLTAGE DROP IN LONG CABLE RUNS OR SPECIAL ENVIRONMENTAL CONDITIONS INCLUDING ULTRAVIOLET LIGHT (UV OR SUNLIGHT), HIGH TEMPERATURE, LOW TEMPERATURE, HIGH VIBRATION, OIL, CORROSIVE SALTS, VAPORS OR FUMES. THE ELECTRICAL EQUIPMENT PRODUCED ACCORDING TO THIS DRAWING SET IS NOT DESIGNED TO BE SUITABLE FOR MANY OF THE POSSIBLE UNSPECIFIED INSTALLATION CONDITIONS. THE INSTALLER IS RESPONSIBLE FOR PROVIDING A FIELD ELECTRICAL INSTALLATION THAT IS SUITABLE FOR THE ACTUAL INSTALLATION CONDITIONS. THIS RESPONSIBILITY INCLUDES LOCAL CODE REQUIREMENT COMPLIANCE AND DAMAGE REPAIR DUE TO SIGNIFICANT DETERIORATION (AT LEAST FOR THE VEOLIA WARRANTY PERIOD) OR INADEQUATE PROTECTION FROM PHYSICAL DAMAGE. IF UNSPECIFIED INSTALLATION CONDITIONS OR DEFICIENT INSTALLATION WORKMANSHIP REQUIRE MODIFICATION OF THE INSTALLATION OR EQUIPMENT, VEOLIA IS NOT RESPONSIBLE FOR THE MODIFICATION COSTS WHICH CAN INCLUDE BUT ARE NOT LIMITED TO LARGER CONDUCTORS, REPLACEMENT WIRING MATERIALS, LABOR, AND LIQUIDATED DAMAGES.					
	VEOLIA WTS CONTROLLED DOCUMENT						VEOLIA WTS CONTROLLED DOCUMENT						ADDITIONAL NOTES • PROVIDE ONE (1) COMPLETE SET OF SPARE FUSES INCLUDING MINIMUM OF FIVE (5) SPARE CONTROL FUSES (IE : AGC/ABC/MDL STYLE) FOR EACH SIZE, PACKAGED TOGETHER AND AFFIXED TO THE INSIDE OF THE ENCLOSURE.					
A	8		7		6		5		4		3		2		1			
	REVISED AS NOTED		-		RKP HX HX		10-JUN-2025		TOLERANCES UNLESS NOTED DECIMALS ANGLES .X - .XX - XXX -		CUSTOMER INFORMATION CAESARS LANE WTF MBR SYSTEM		SCHEMATIC WIRING DIAGRAM MAIN CONTROL PANEL, CP-01		DRAWING NUMBER 510464-WTS-EL-000-5100-DI-001 REVISION C			
REVISED AS NOTED		-		RKP HX HX		05-NOV-24												
ISSUED FOR APPROVAL		-		SN HX HX		08-MAR-23												
DESCRIPTION		ECO		DWN		APPR		APPR		DATE								
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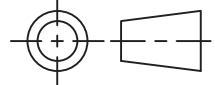


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C	REVISED AS NOTED	-	RKP	HX	HX	10-JUN-2025
B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

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TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
.X -	-
.XX -	FRAC
.XXX -	-





CAESARS LANE WTF
MBR SYSTEM

SCHEMATIC WIRING DIAGRAM

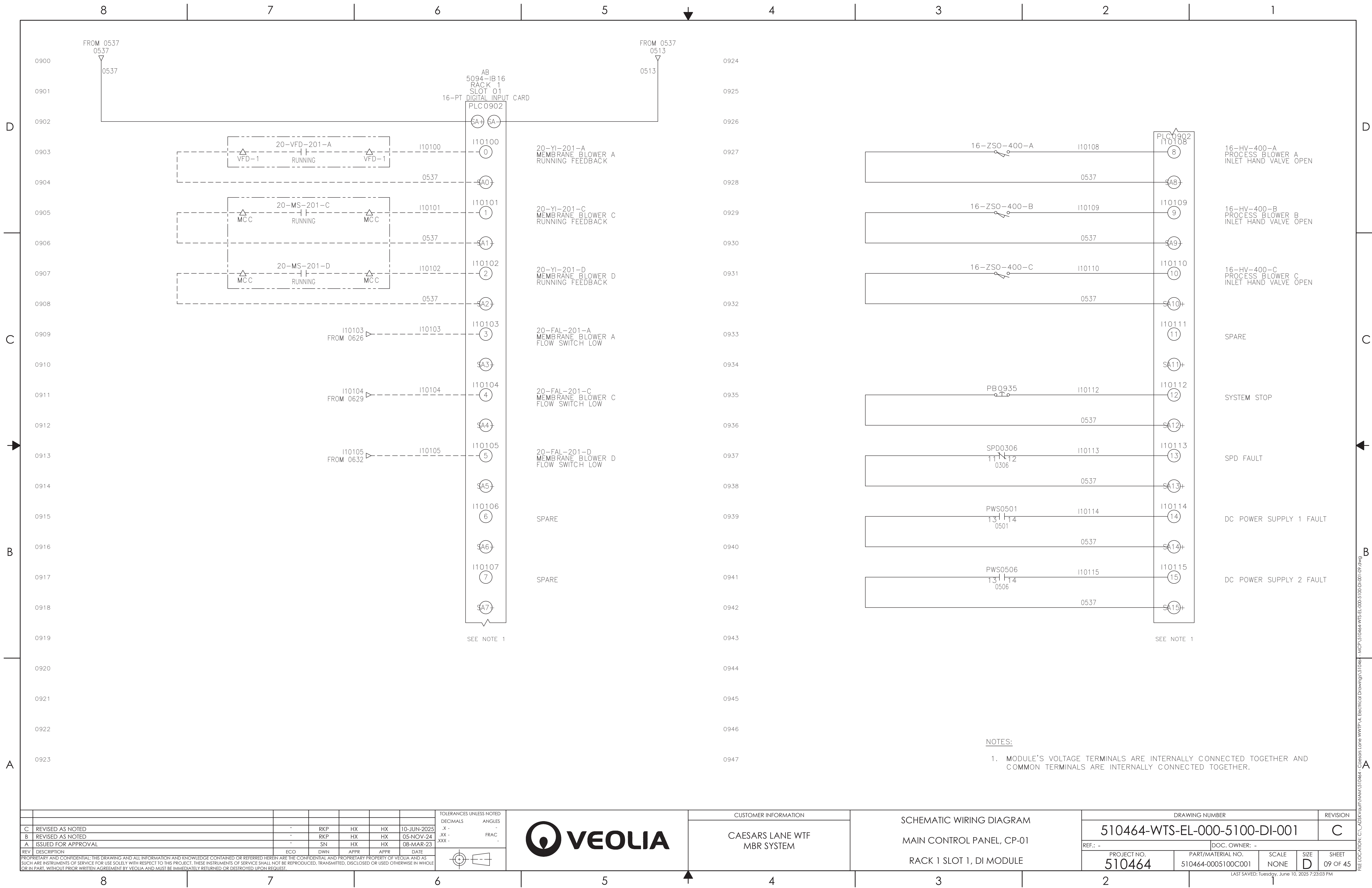
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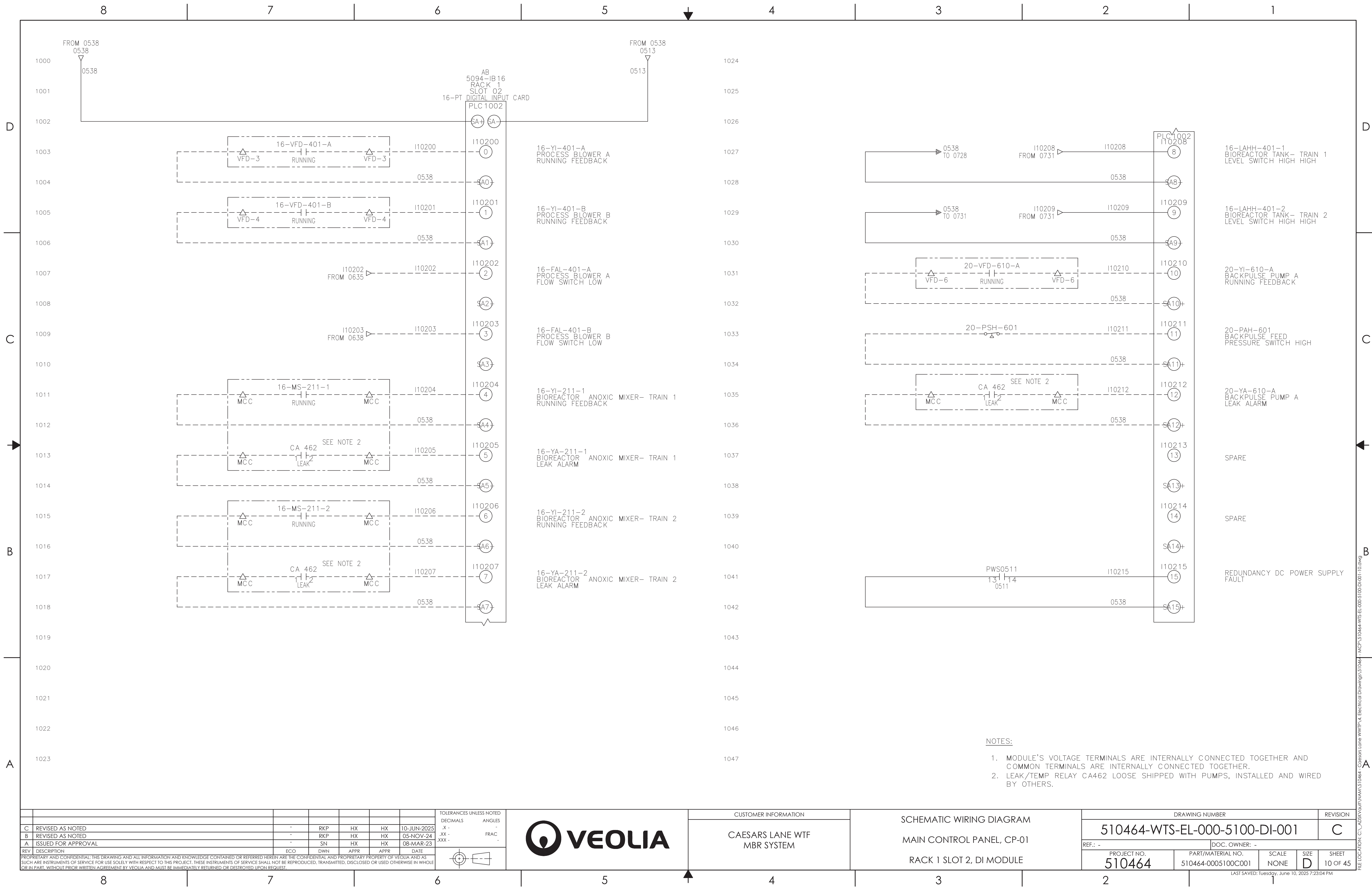
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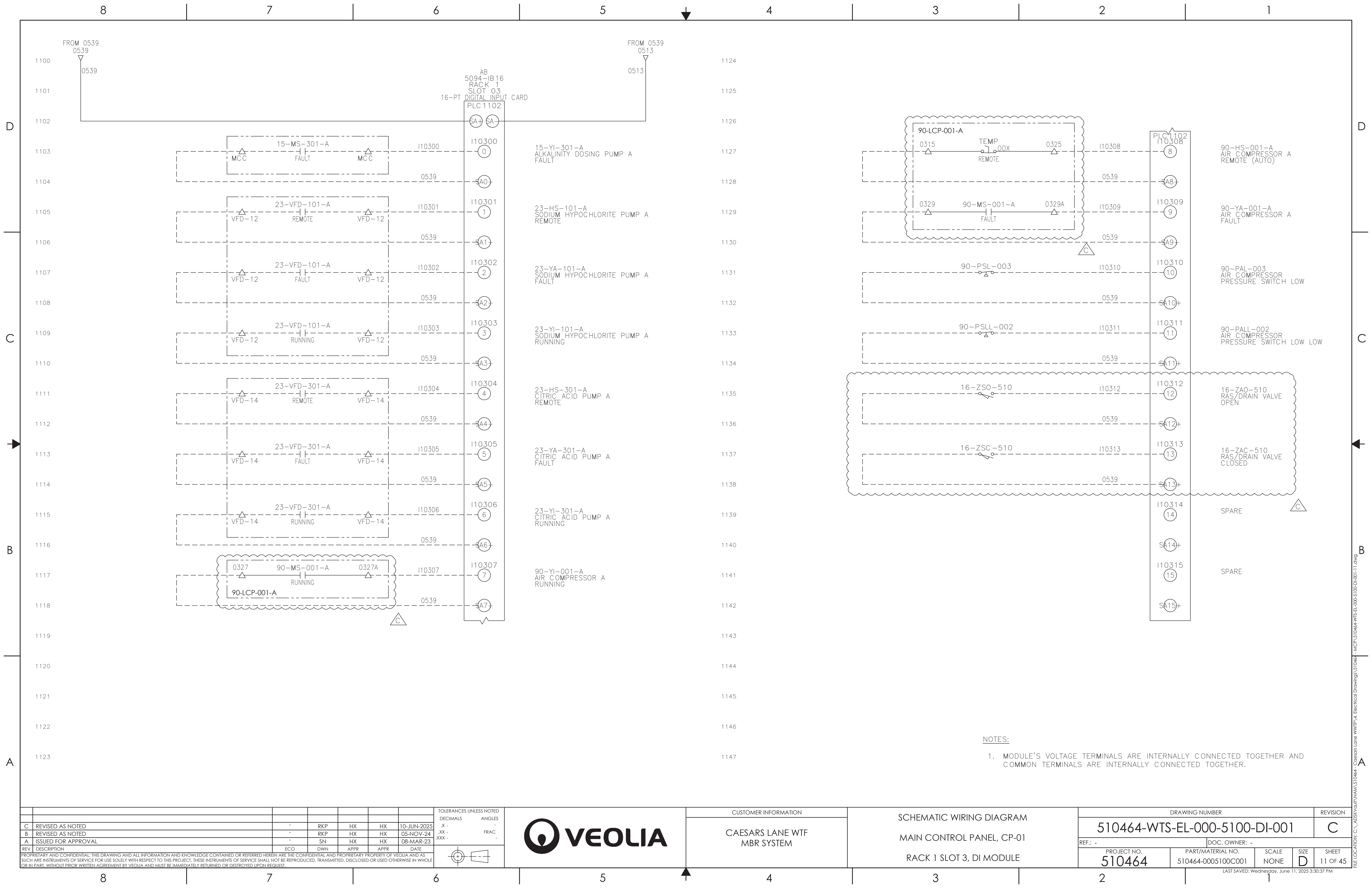
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PROJECT NO. 510464	PART/MATERIAL NO. 510464-0005100C001	SCALE NONE	SIZE D	SHEET 08 OF 45

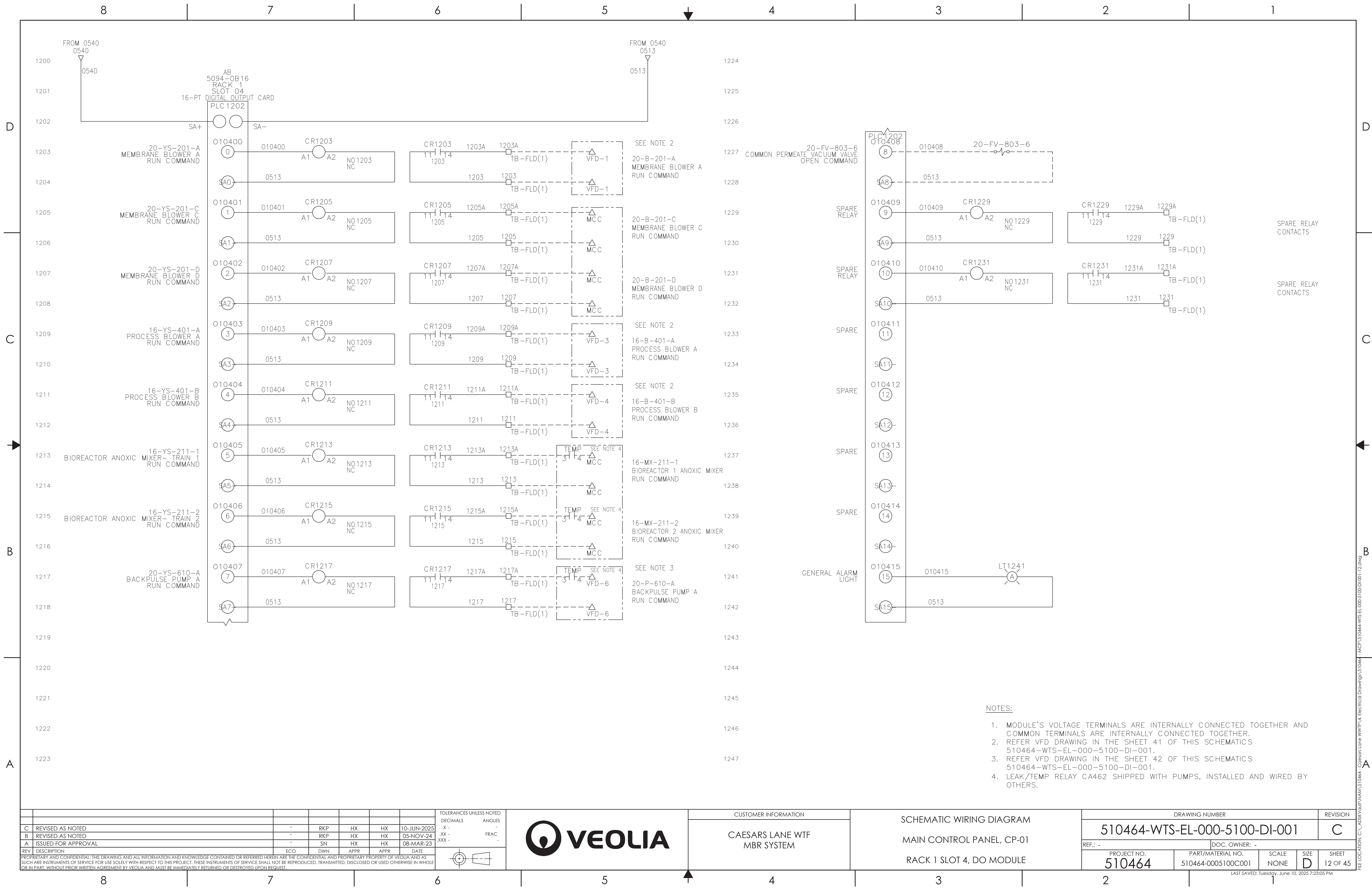
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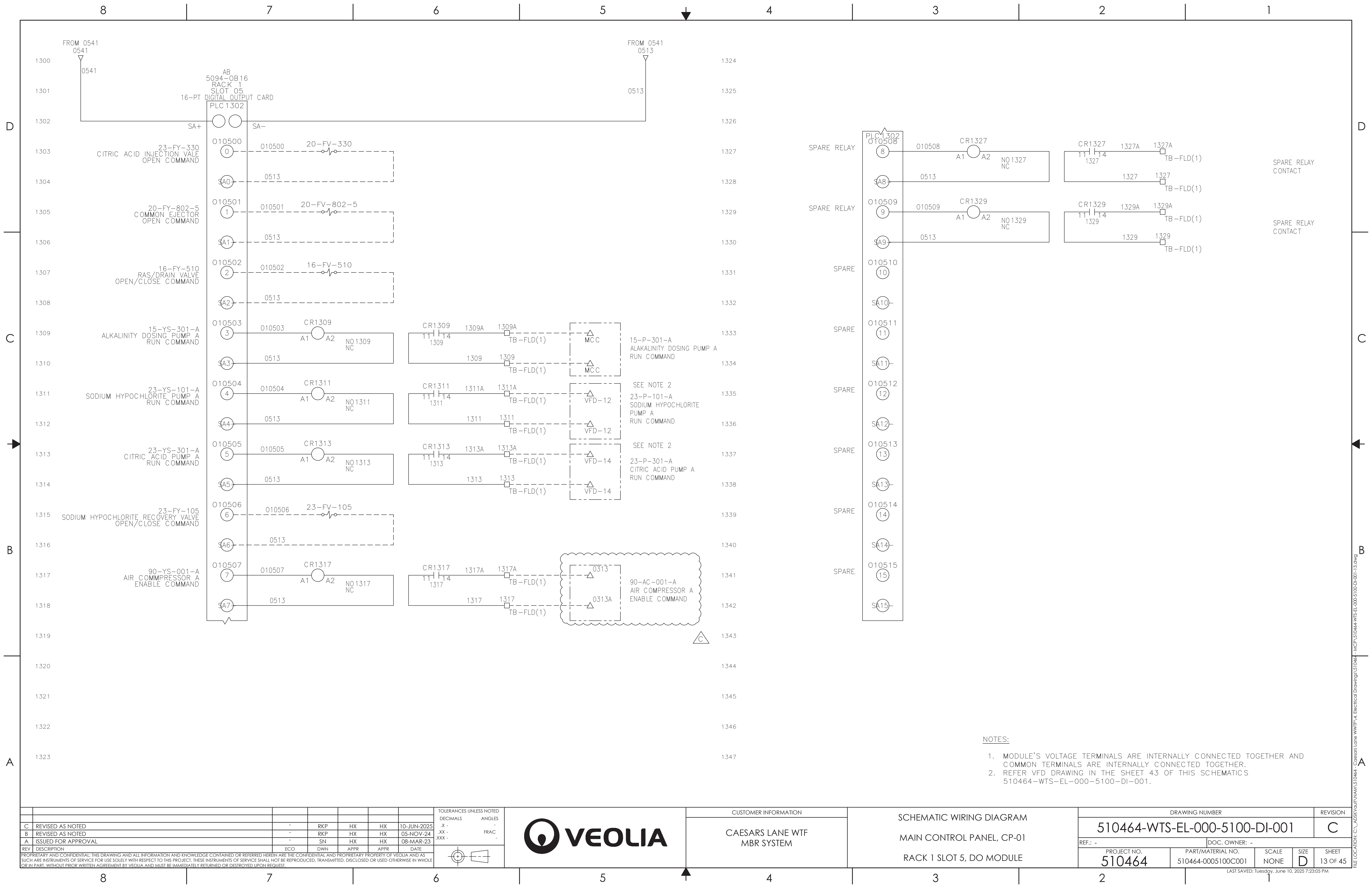
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B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
.X -	°
.XX -	°
.XXX -	°



CUSTOMER INFORMATION

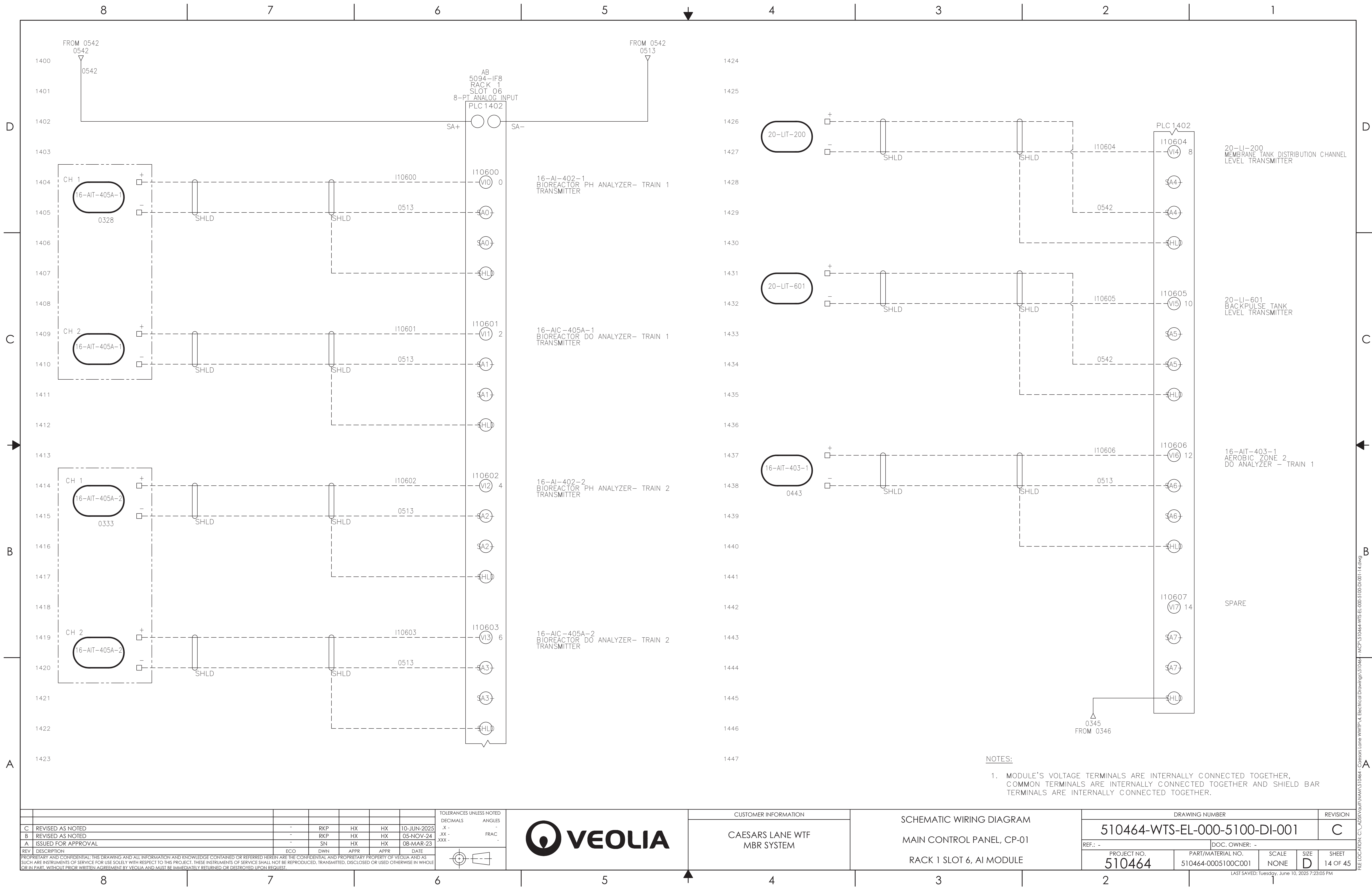
CAESARS LANE WTF
MBR SYSTEM

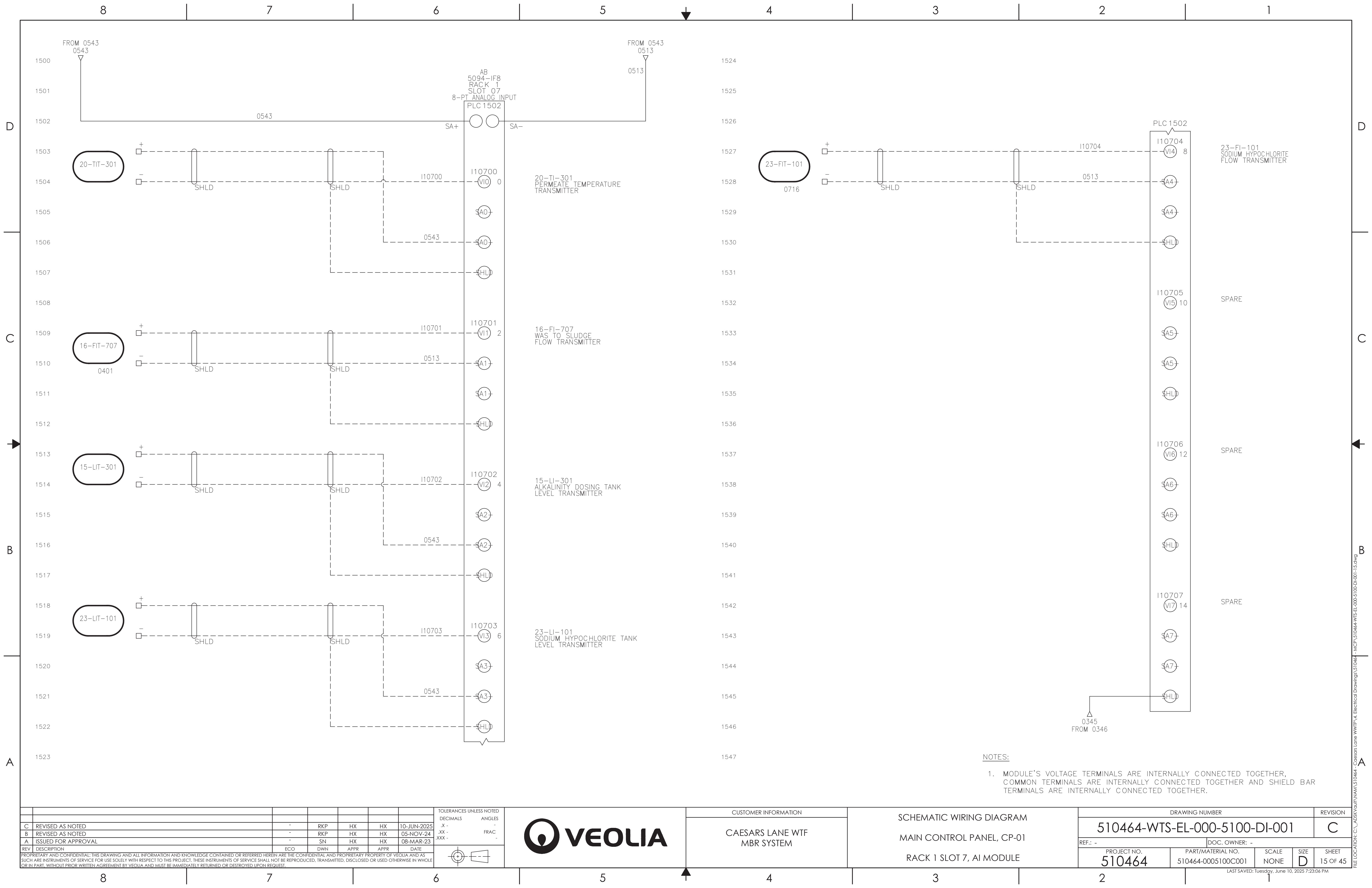
SCHEMATIC WIRING DIAGRAM

MAIN CONTROL PANEL, CP-01

RACK 1 SLOT 5, DO MODULE

DRAWING NUMBER					REVISION
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REF.: -		DOC. OWNER: -			
PROJECT NO.	PART/MATERIAL NO.	SCALE	SIZE	SHEET	
510464	510464-0005100C001	NONE	D	13 OF 45	





REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
C	REVISED AS NOTED	-	RKP	HX	HX	10-JUN-2025
B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
.X -	FRAC
.XX -	
.XXX -	

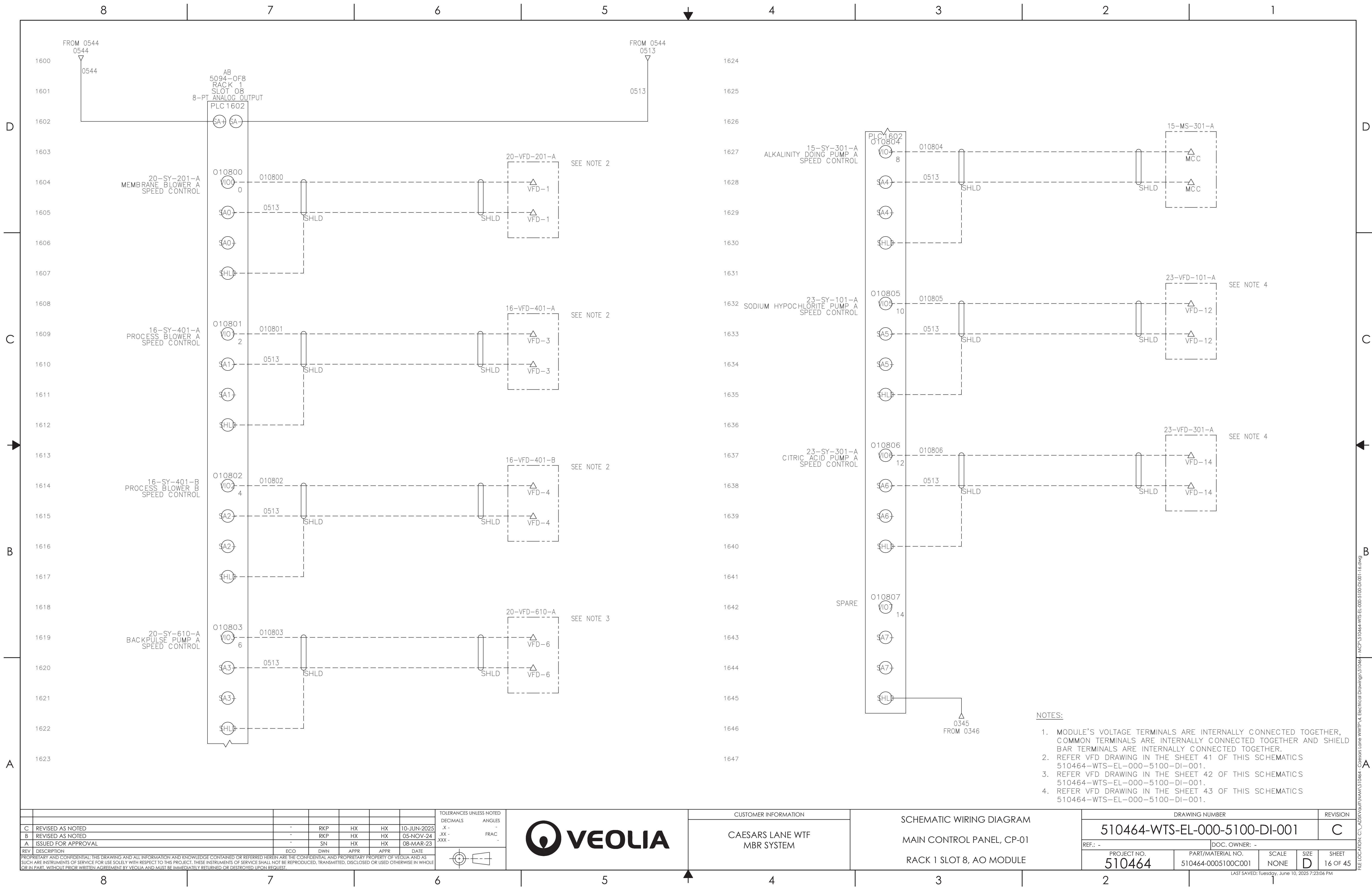


CUSTOMER INFORMATION	
CAESARS LANE WTF MBR SYSTEM	

SCHEMATIC WIRING DIAGRAM	
MAIN CONTROL PANEL, CP-01	
RACK 1 SLOT 7, AI MODULE	

DRAWING NUMBER				REVISION
510464-WTS-EL-000-5100-DI-001				C
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PROJECT NO. 510464	PART/MATERIAL NO. 510464-0005100C001	SCALE NONE	SIZE D	SHEET 15 OF 45

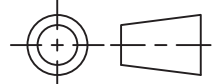
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B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

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CAESARS LANE WTF
MBR SYSTEM

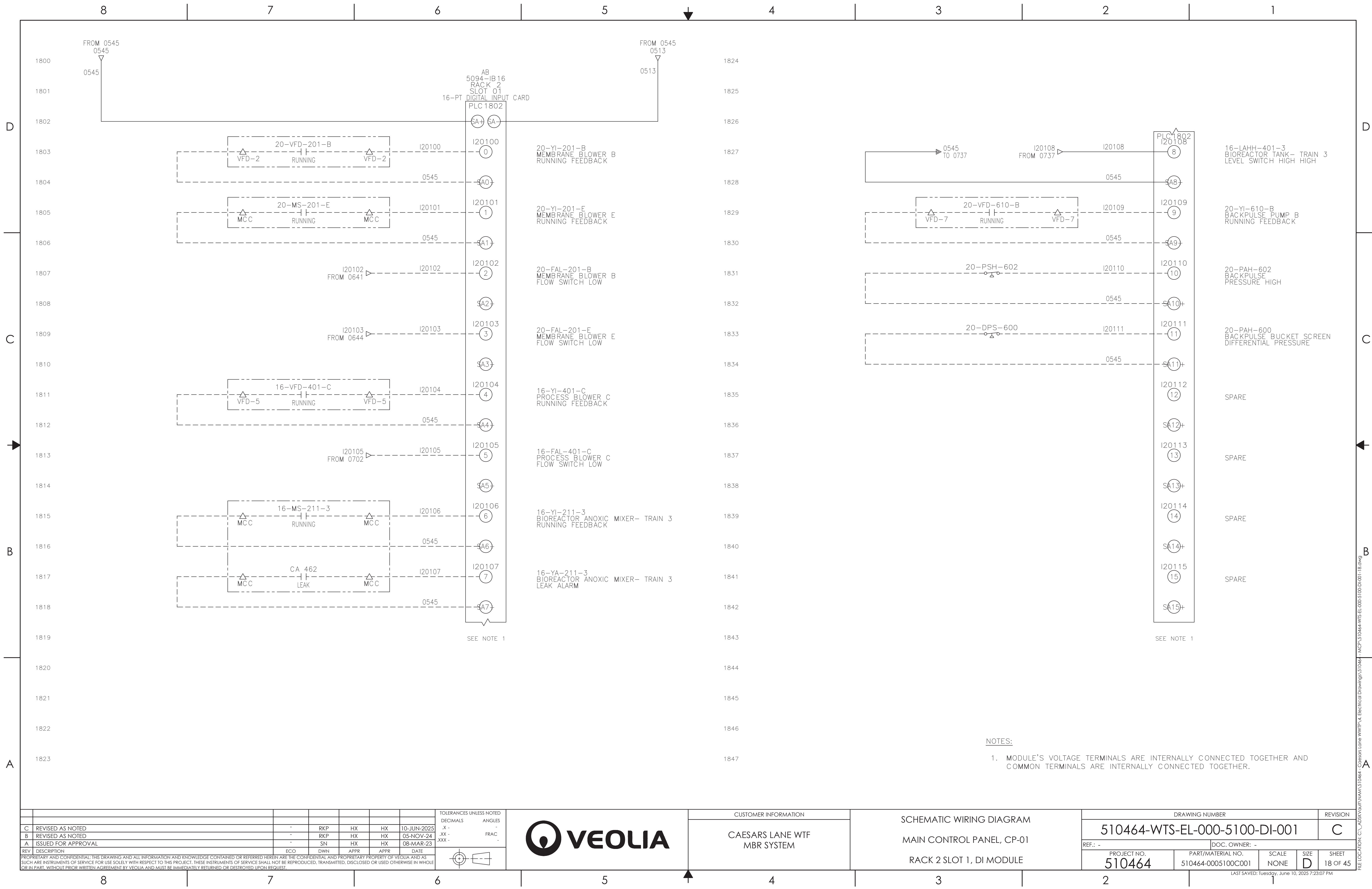
SCHEMATIC WIRING DIAGRAM
MAIN CONTROL PANEL, CP-01

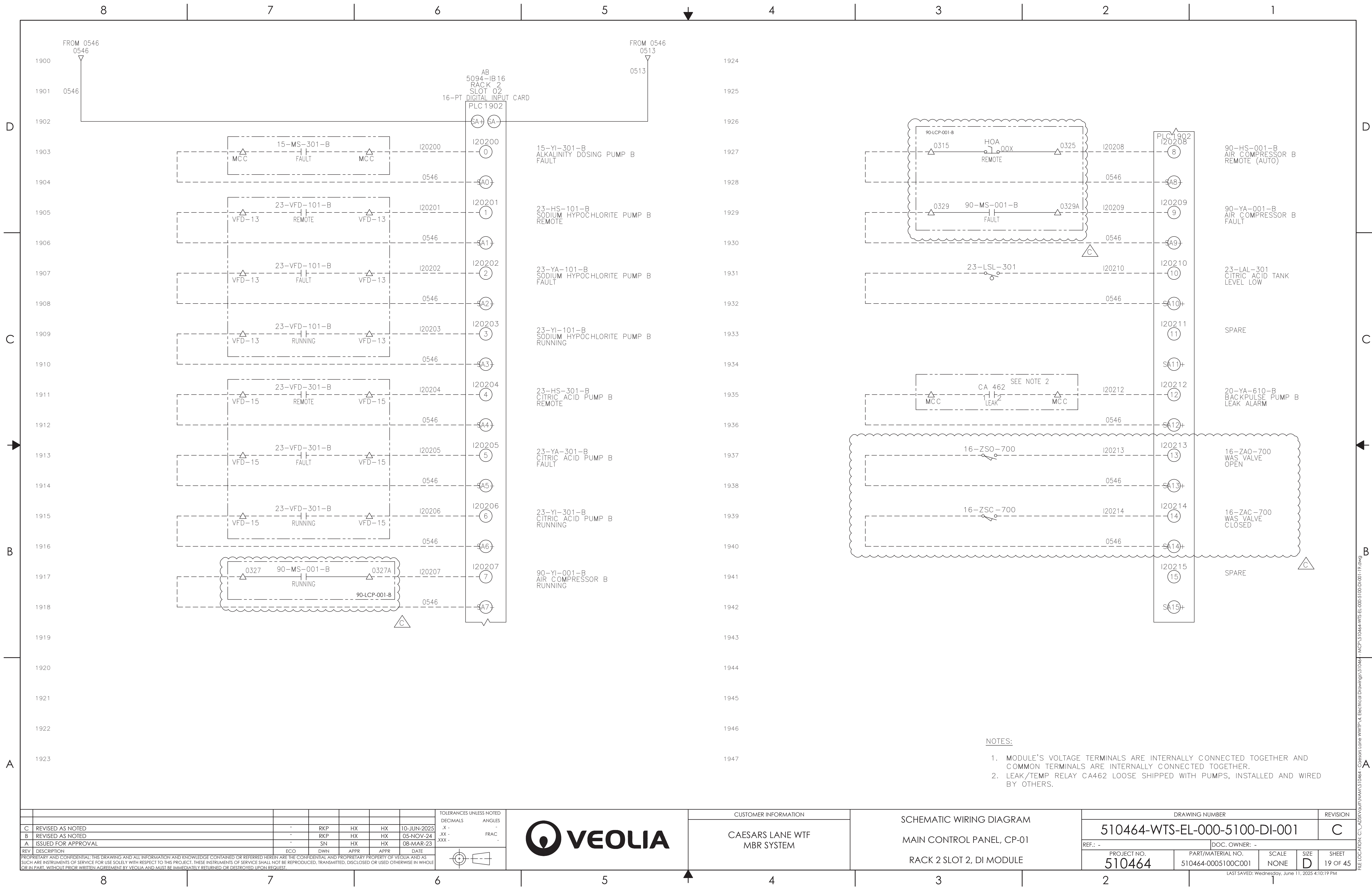
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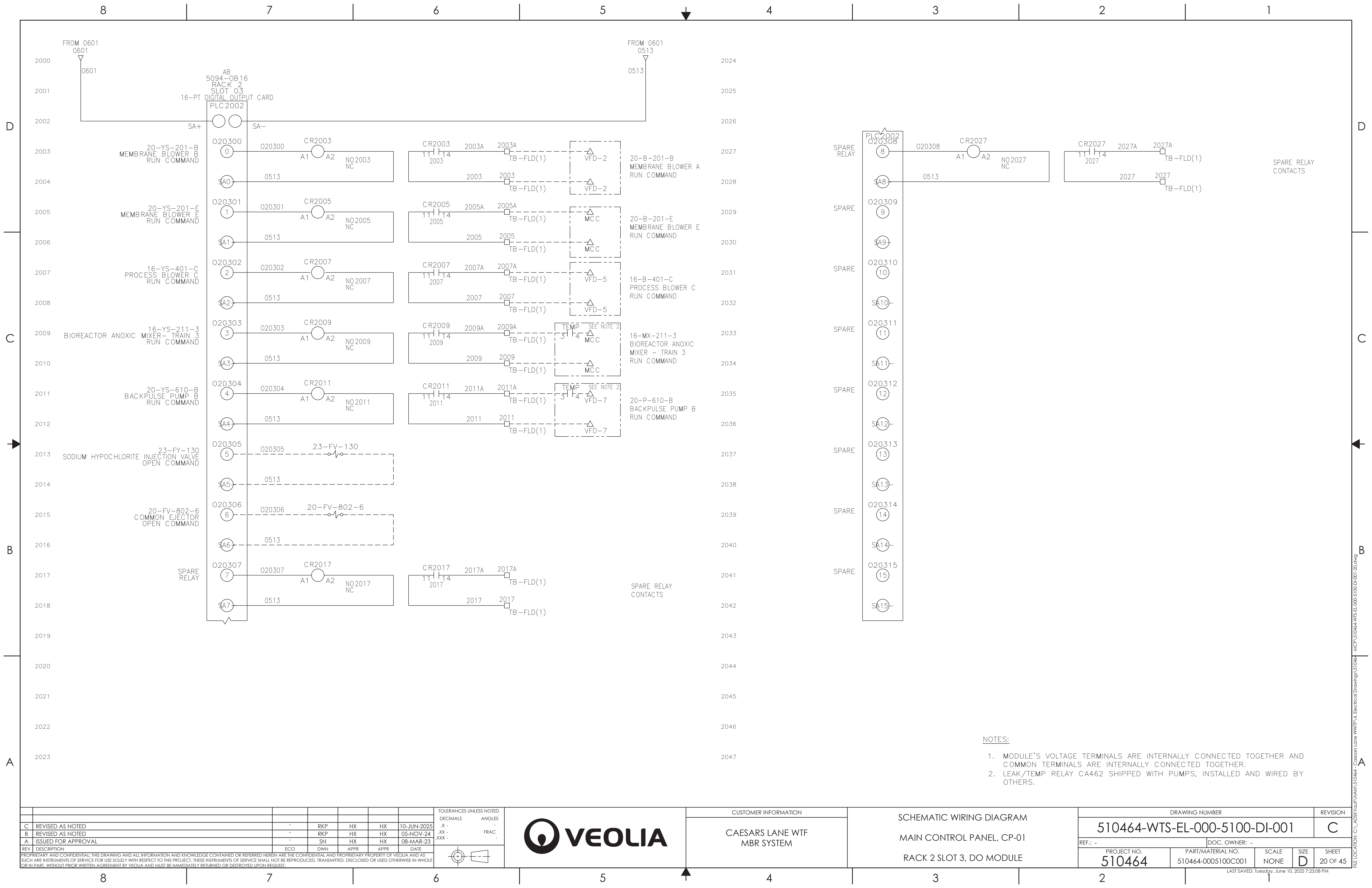
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				SHEET 17 OF 45	

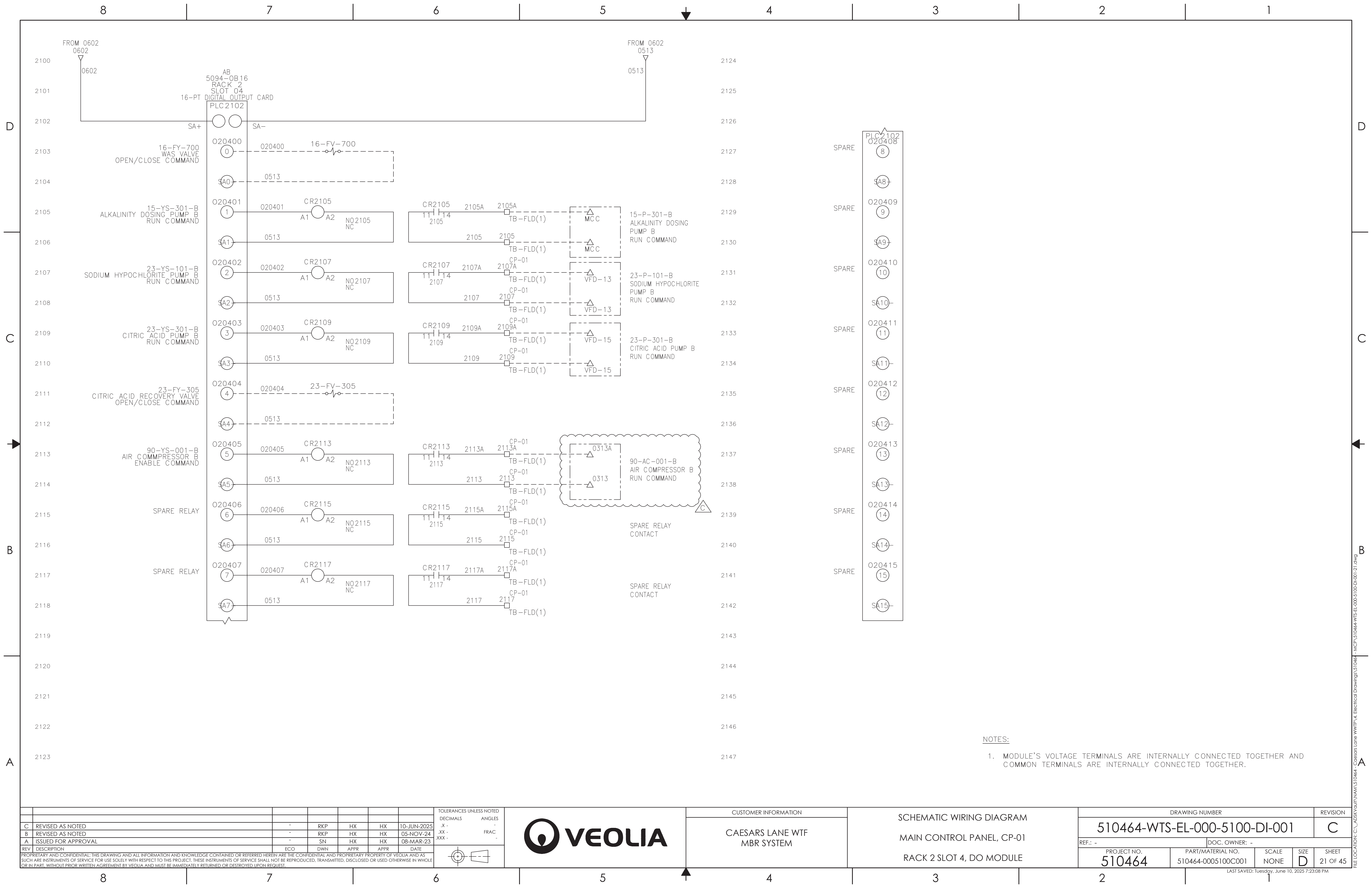
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B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

TOLERANCES UNLESS NOTED
DECIMALS
ANGLES
FRAC
XXX



CUSTOMER INFORMATION

CAESARS LANE WTF
MBR SYSTEM

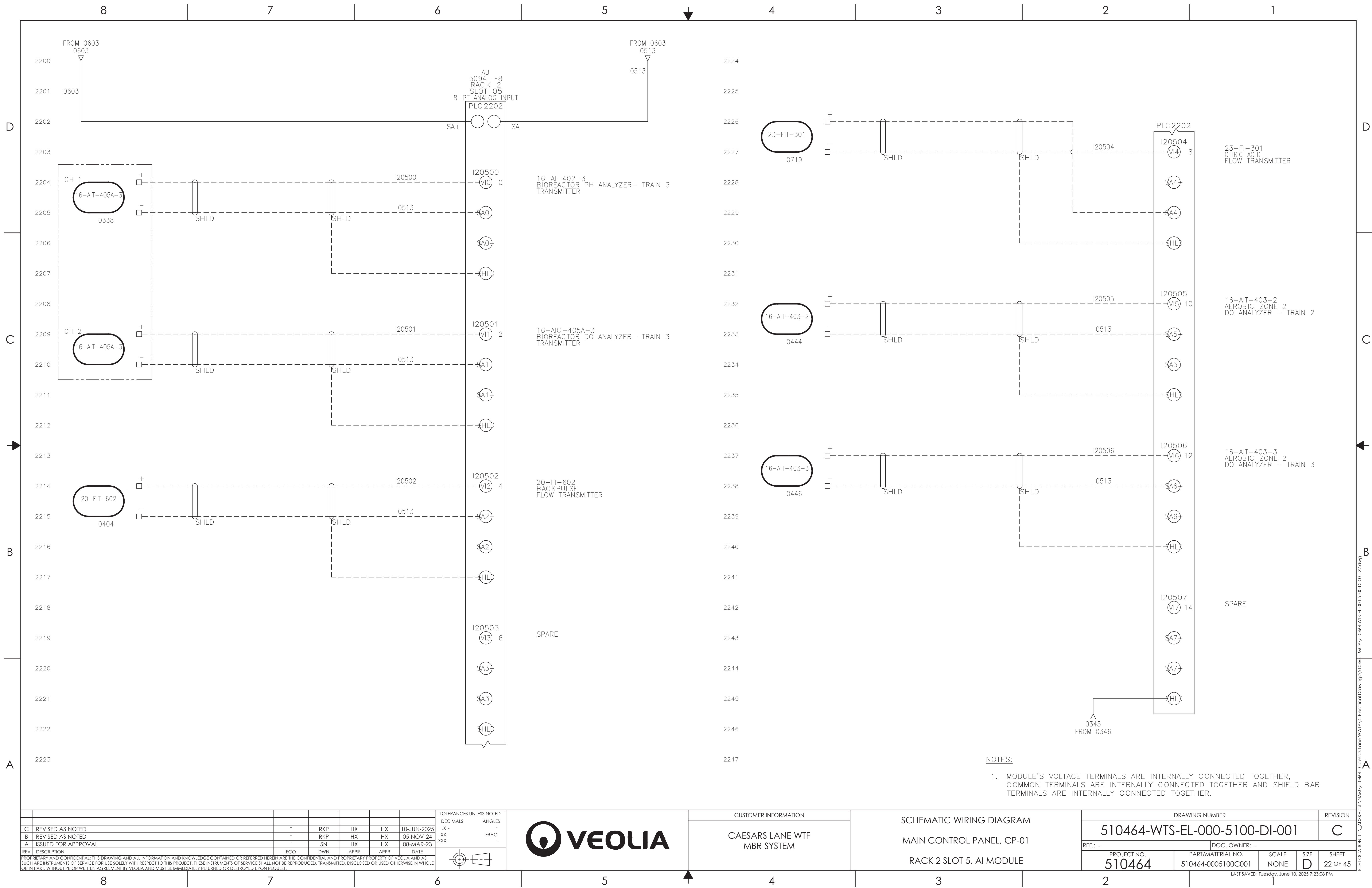
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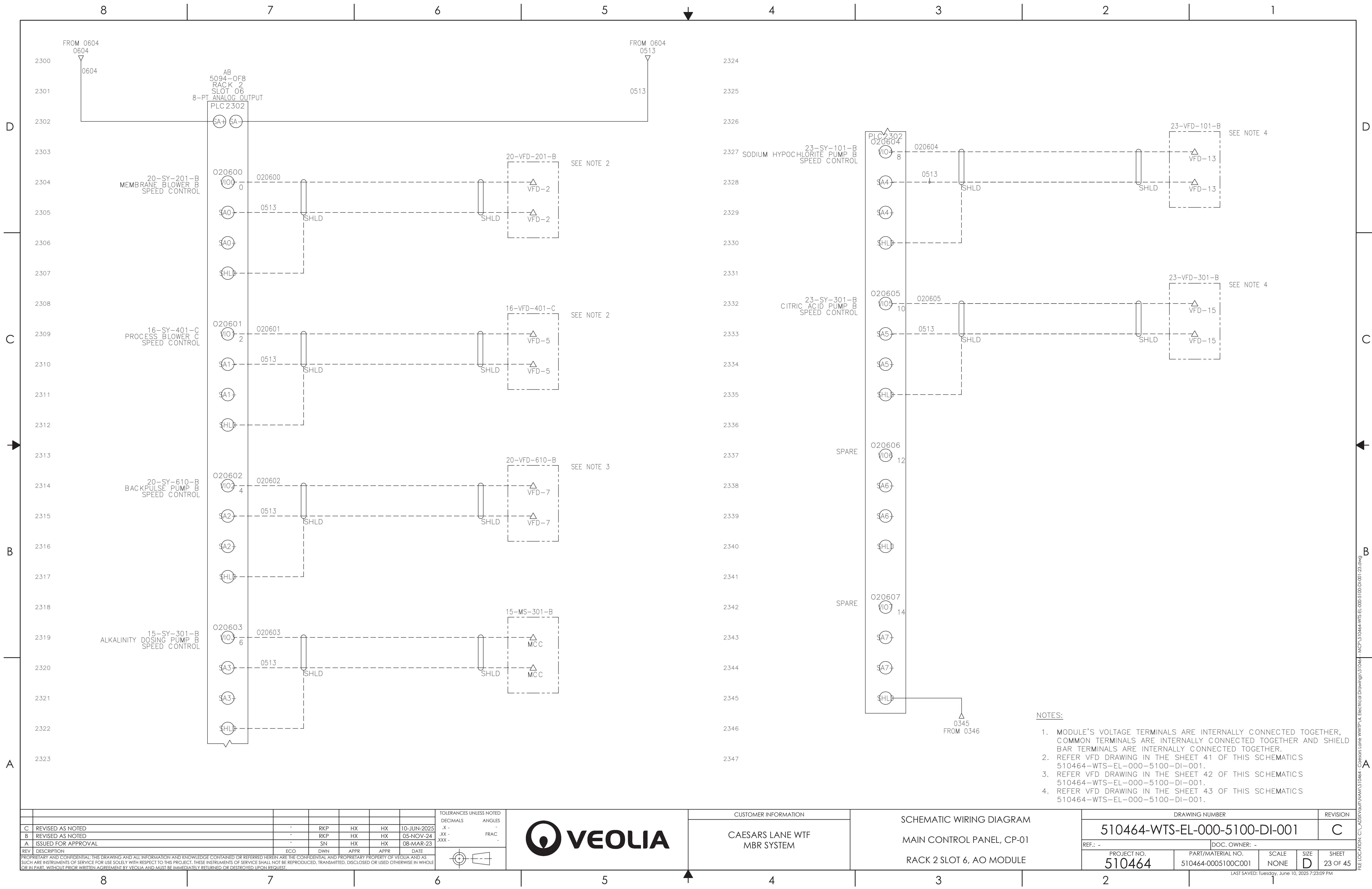
MAIN CONTROL PANEL, CP-01

RACK 2 SLOT 4, DO MODULE

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PROJECT NO. 510464	PART/MATERIAL NO. 510464-0005100C001	SCALE NONE	SIZE D	SHEET 21 OF 45	

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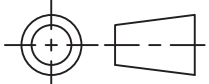




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A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23
REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
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TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
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.XX -	FRAC -
.XXX -	-



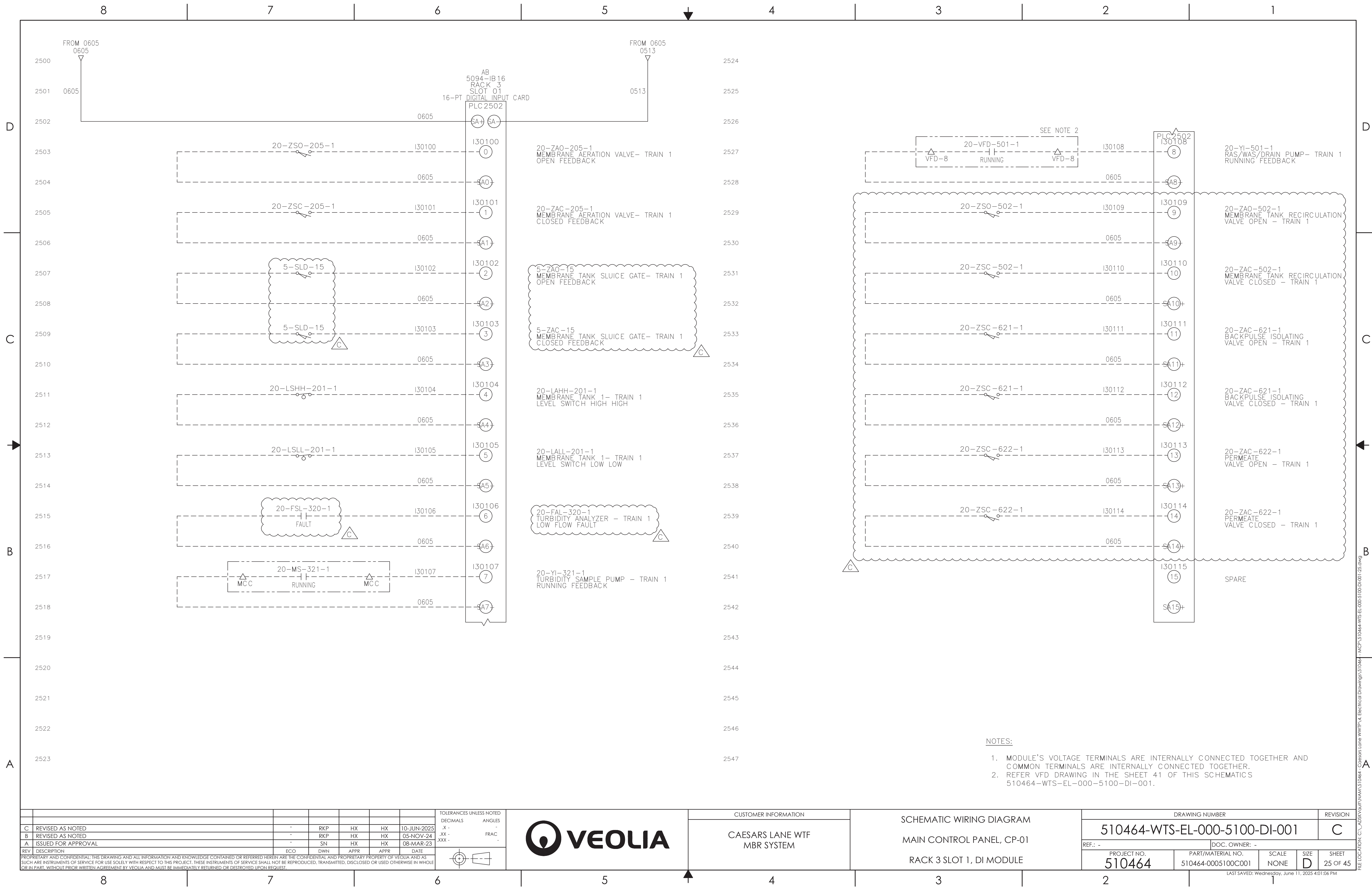
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CAESARS LANE WTF MBR SYSTEM

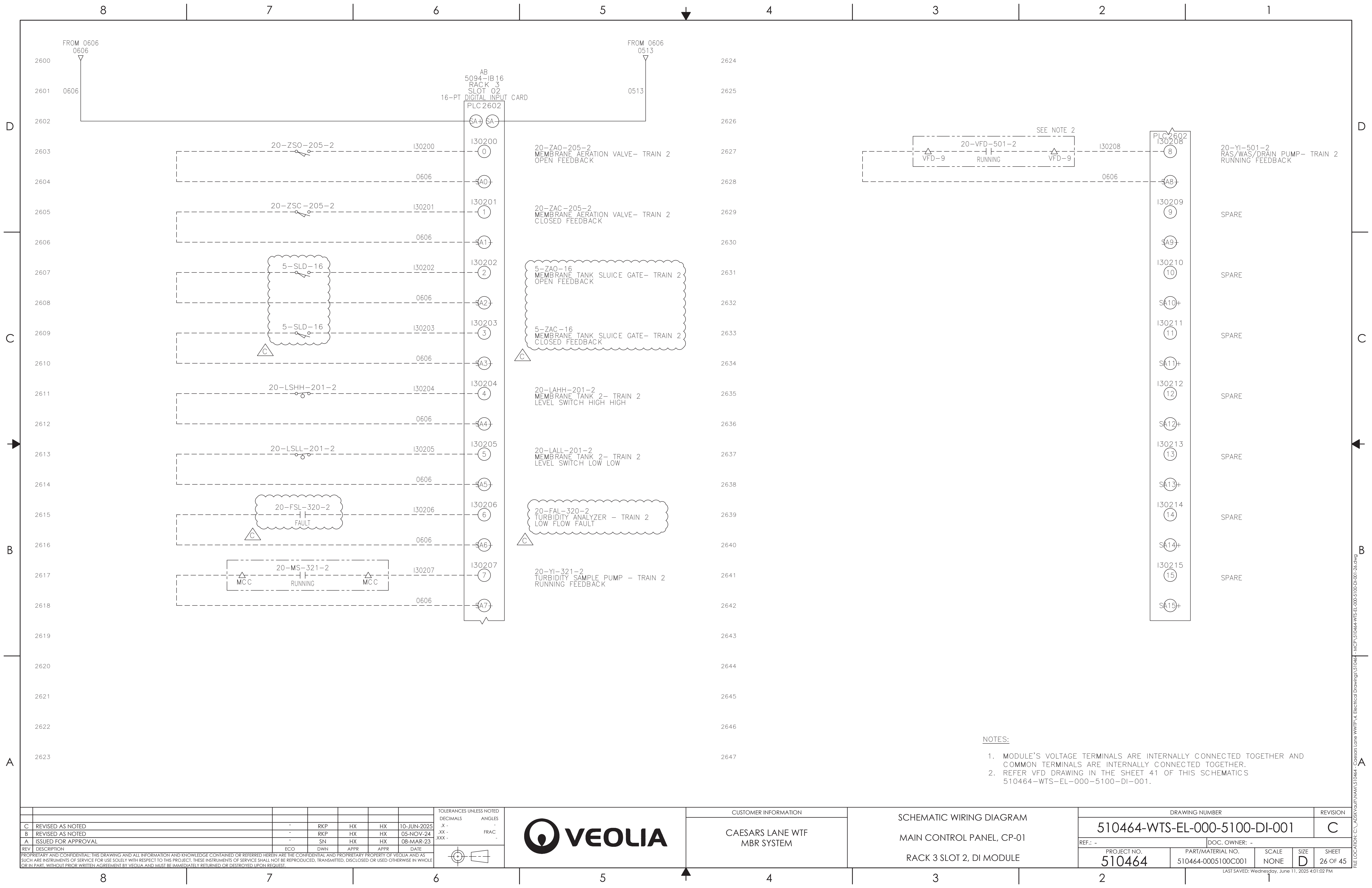
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MAIN CONTROL PANEL, CP-01
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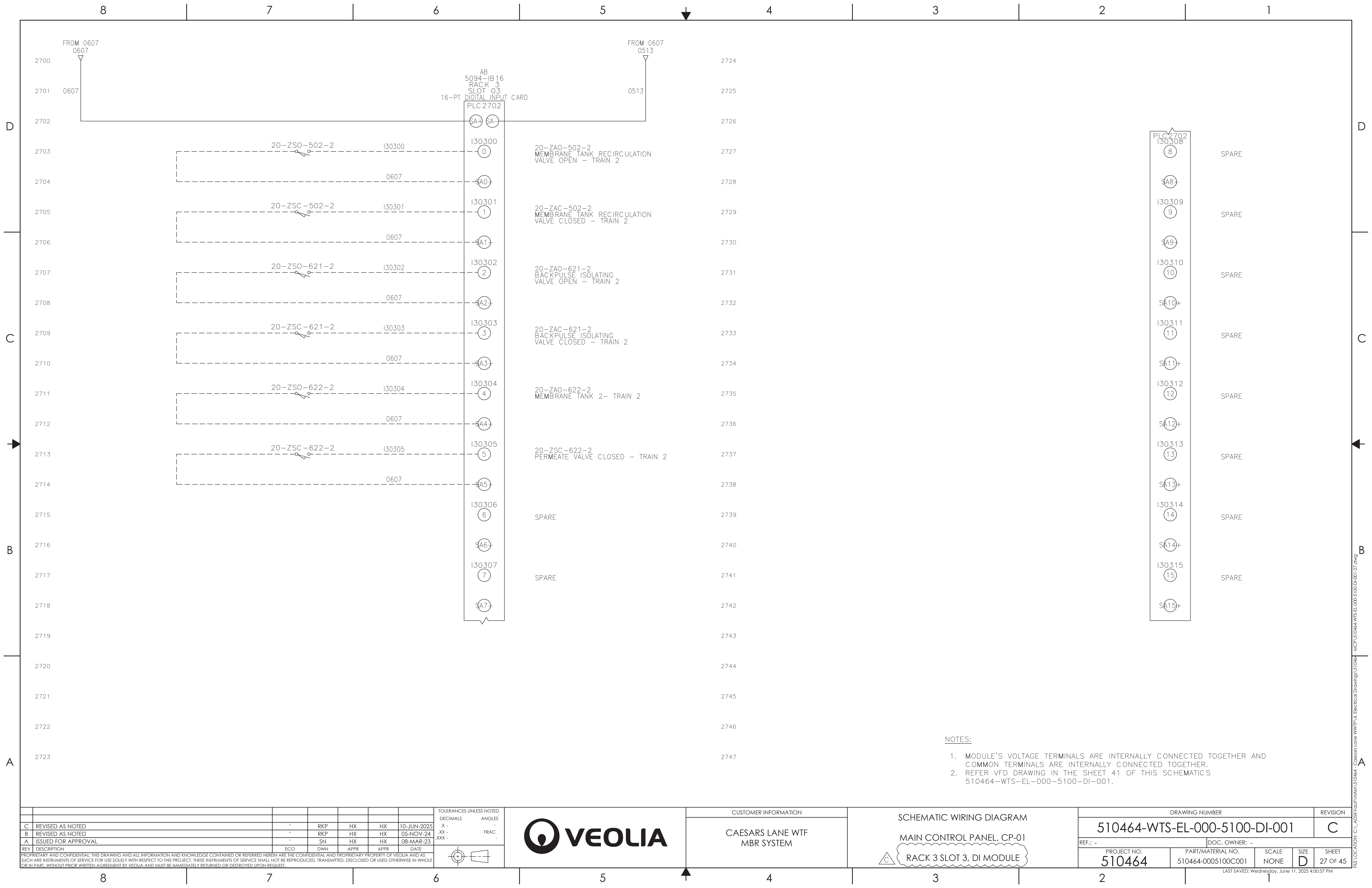
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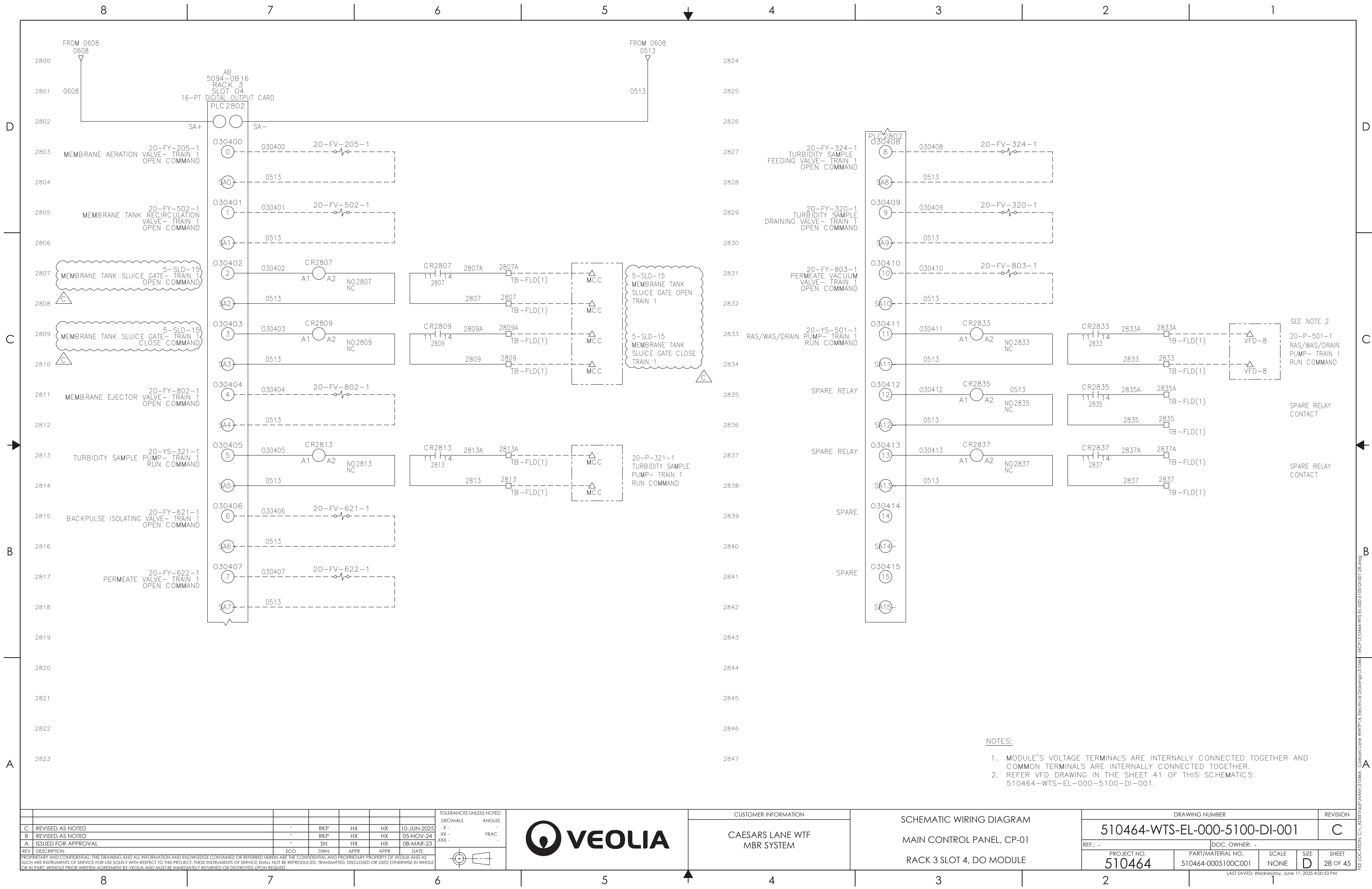
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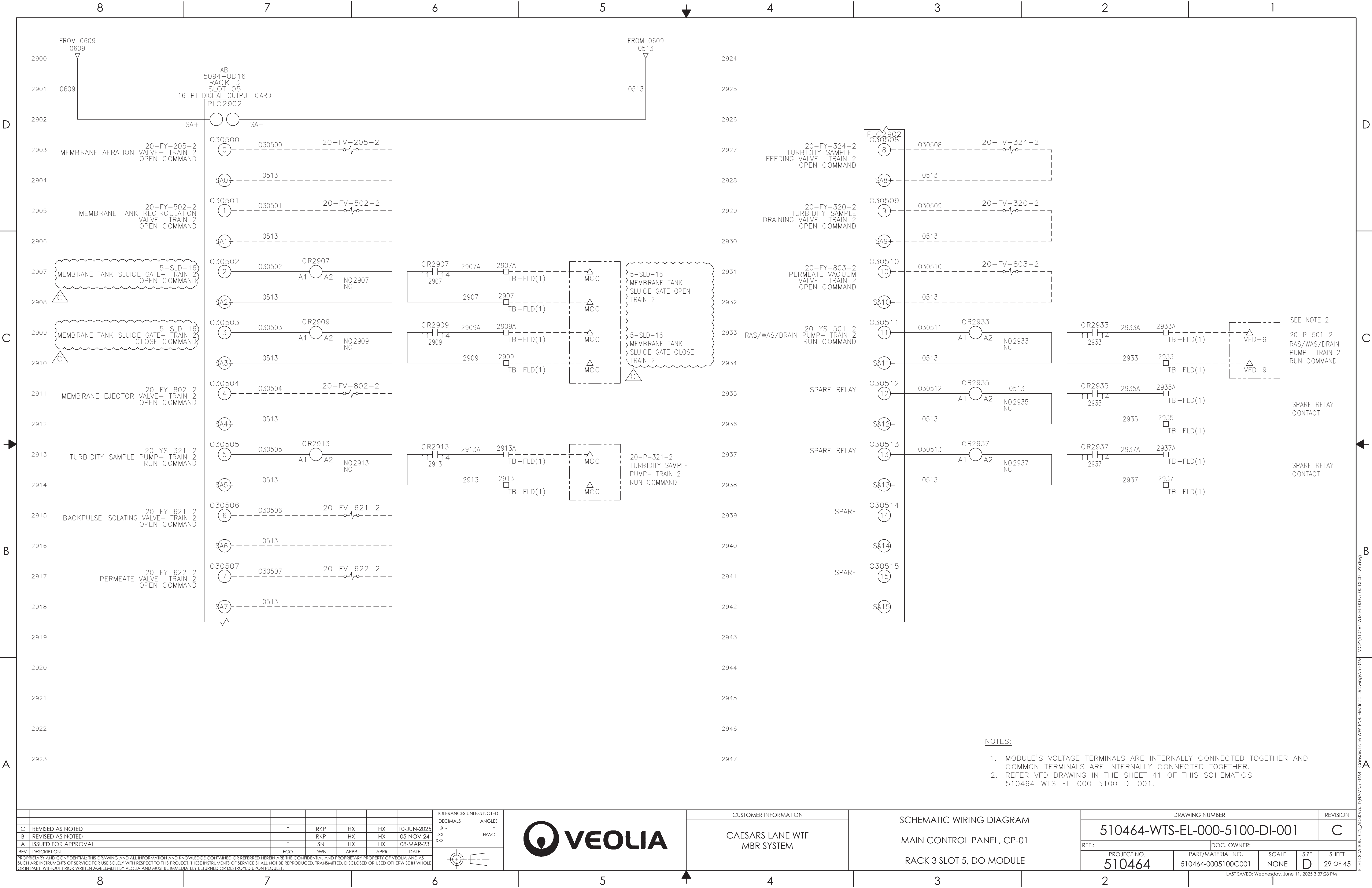
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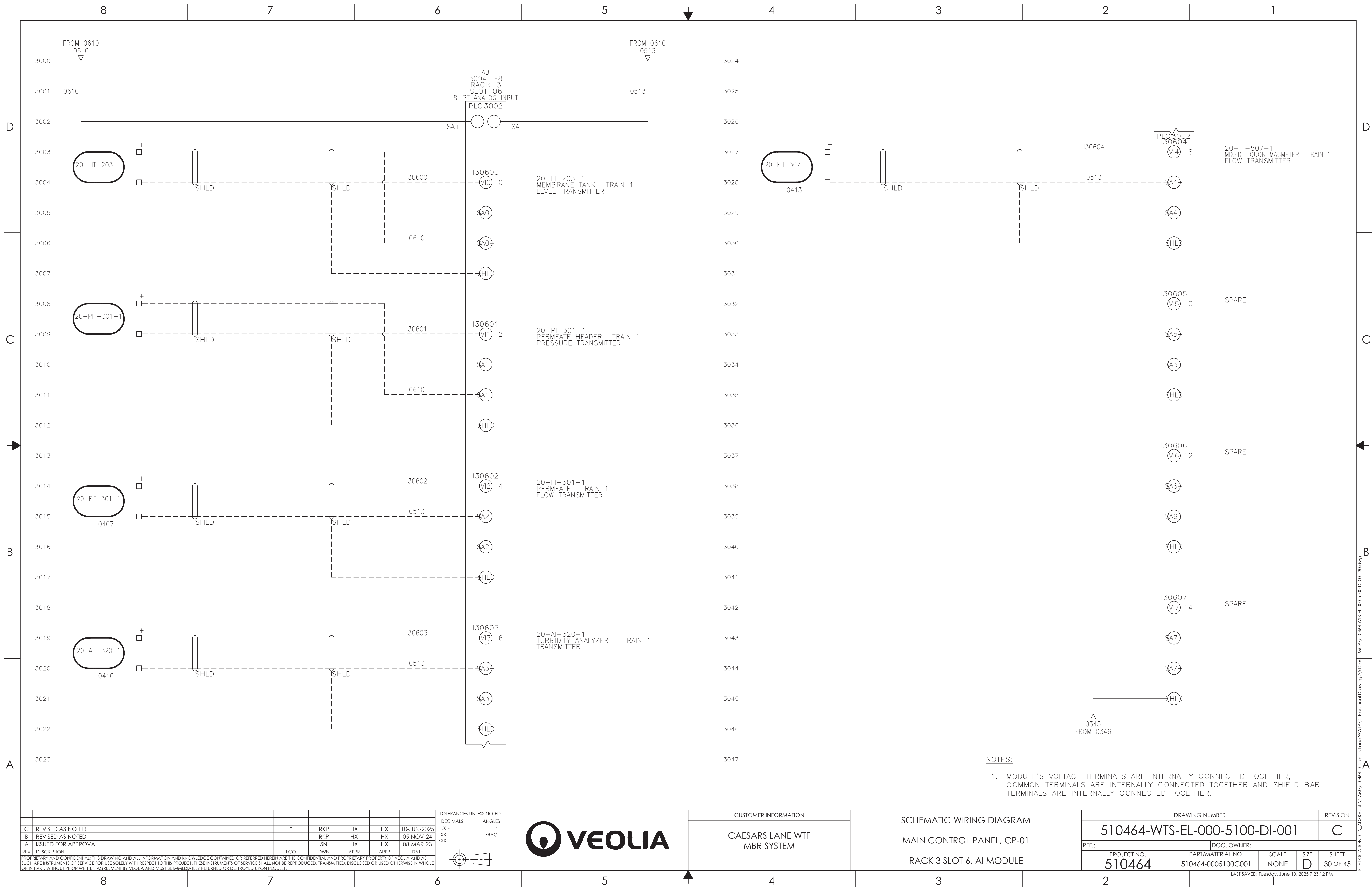


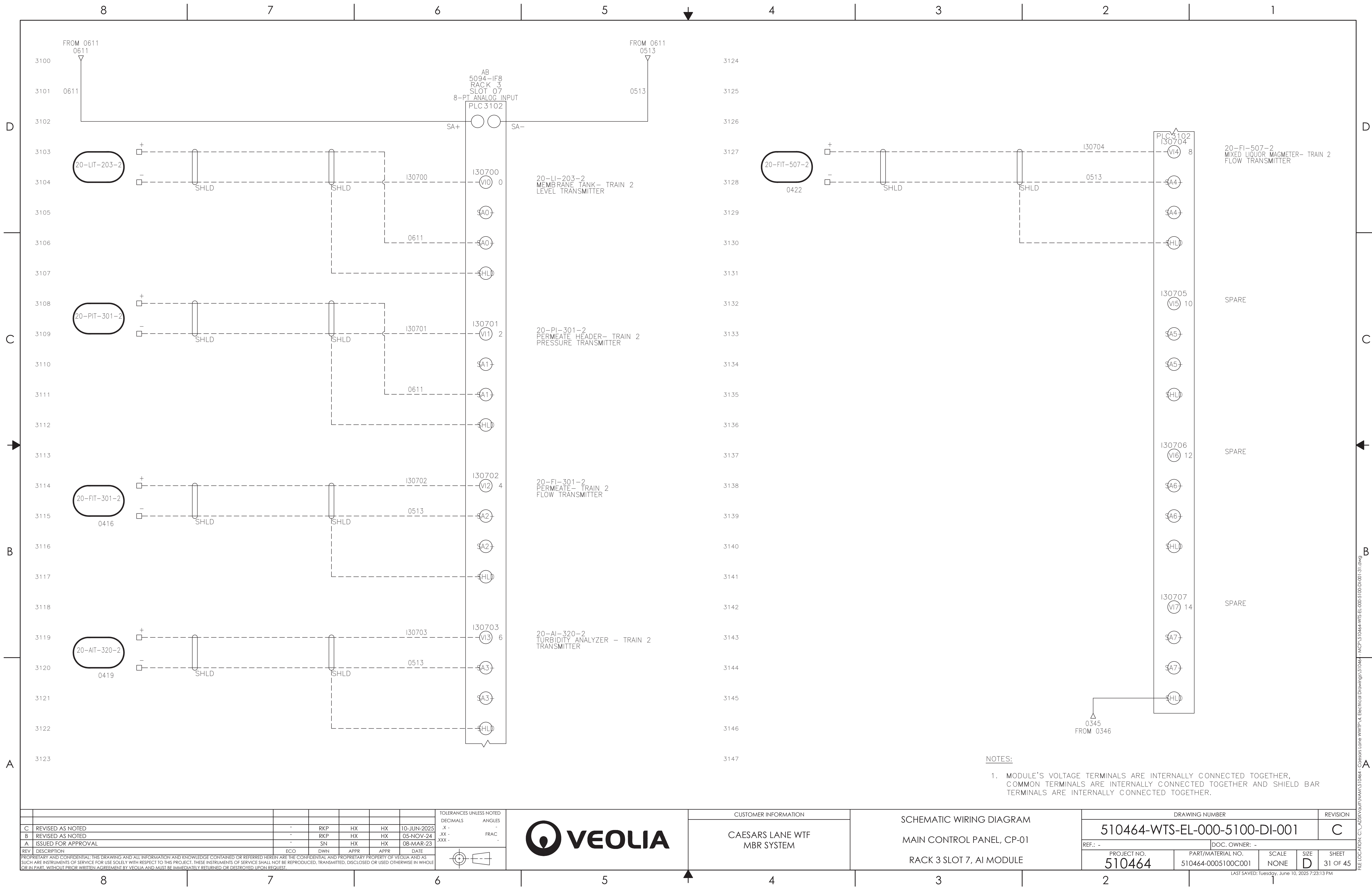


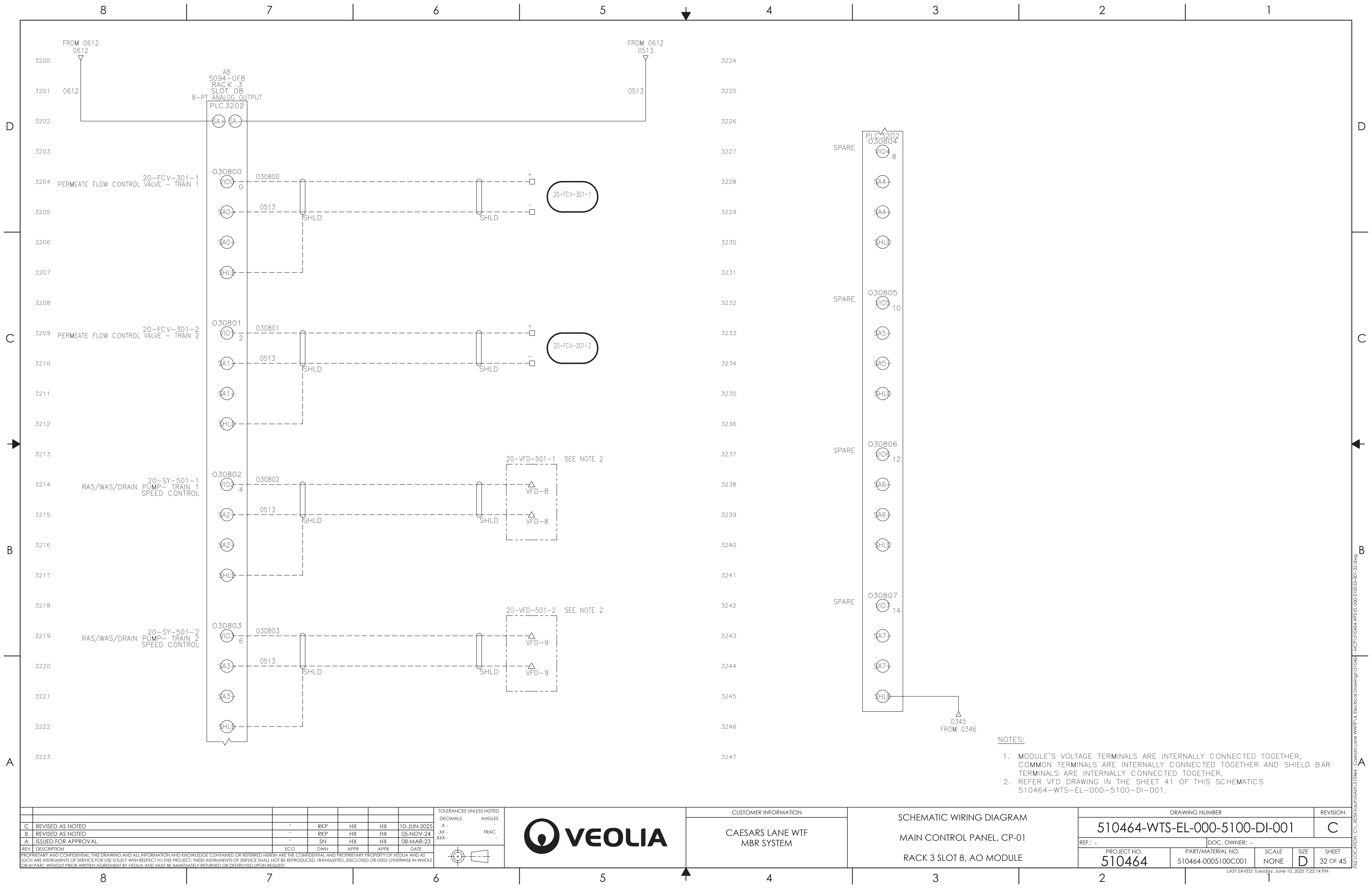












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B	REVISED AS NOTED	-	RKP	HX	HX	05-NOV-24
A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

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TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
.X -	-
.XX -	FRAC
.XXX -	-

CUSTOMER INFORMATION

CAESARS LANE WTF
MBR SYSTEM

SCHEMATIC WIRING DIAGRAM

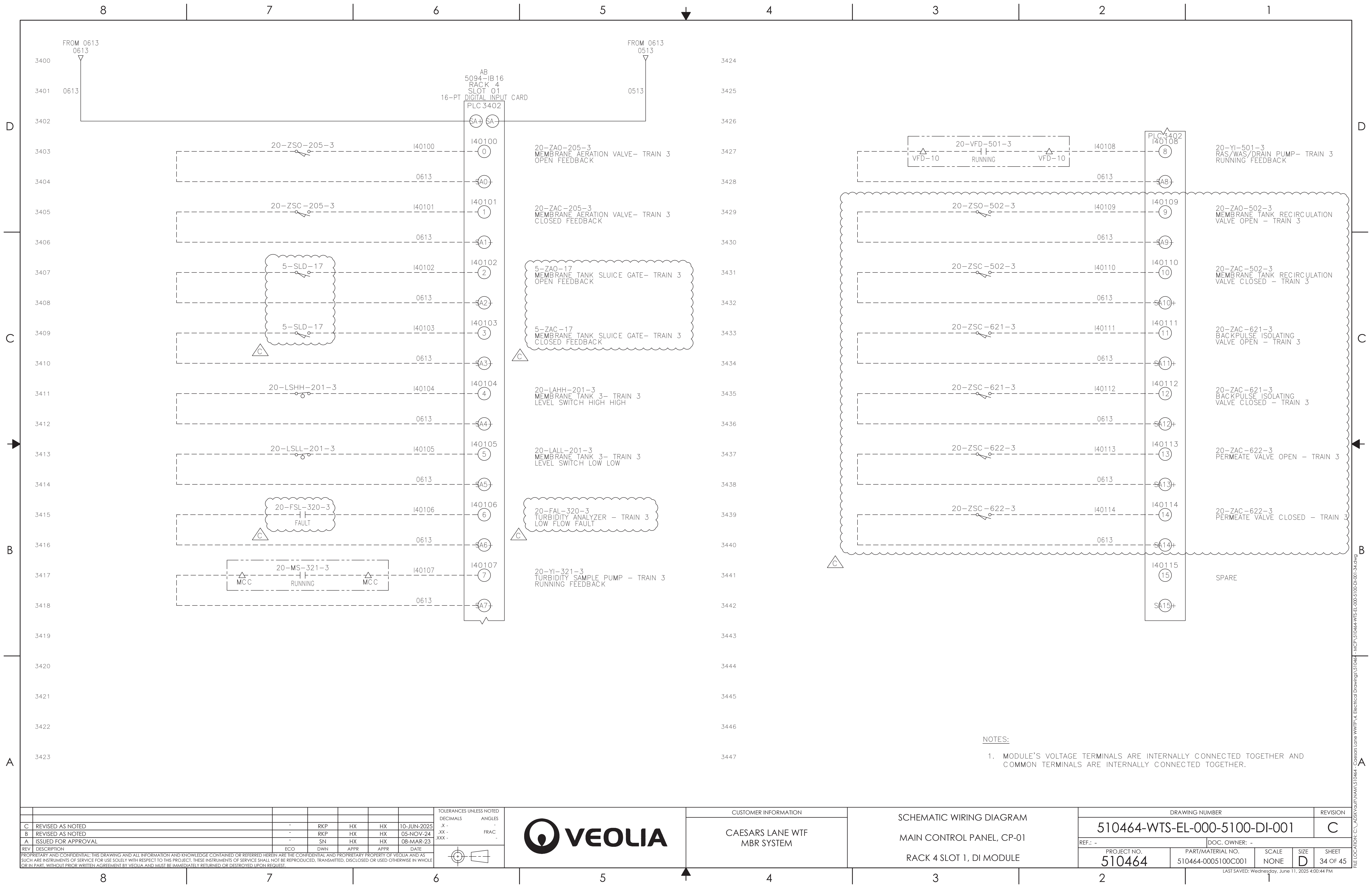
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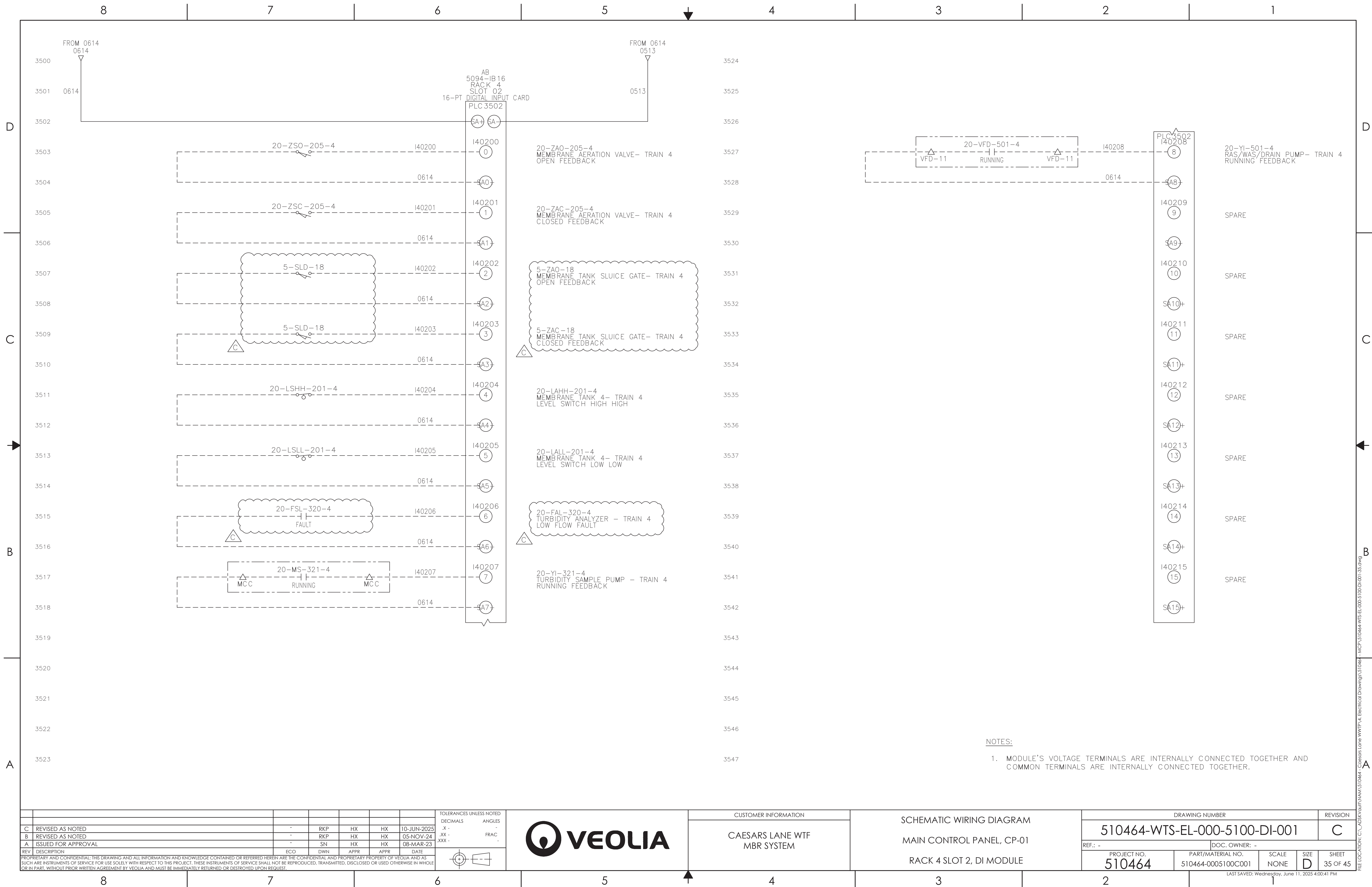
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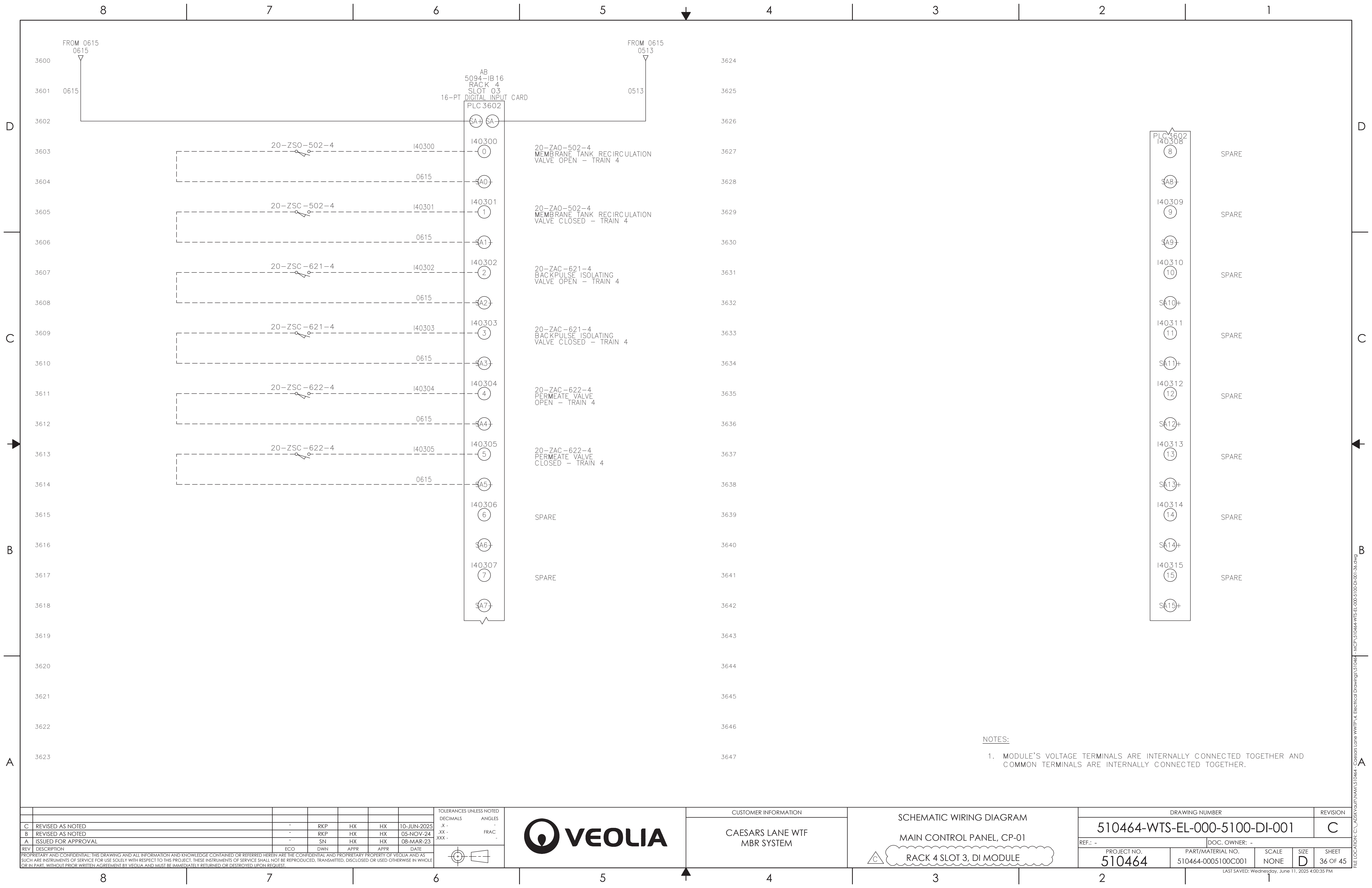
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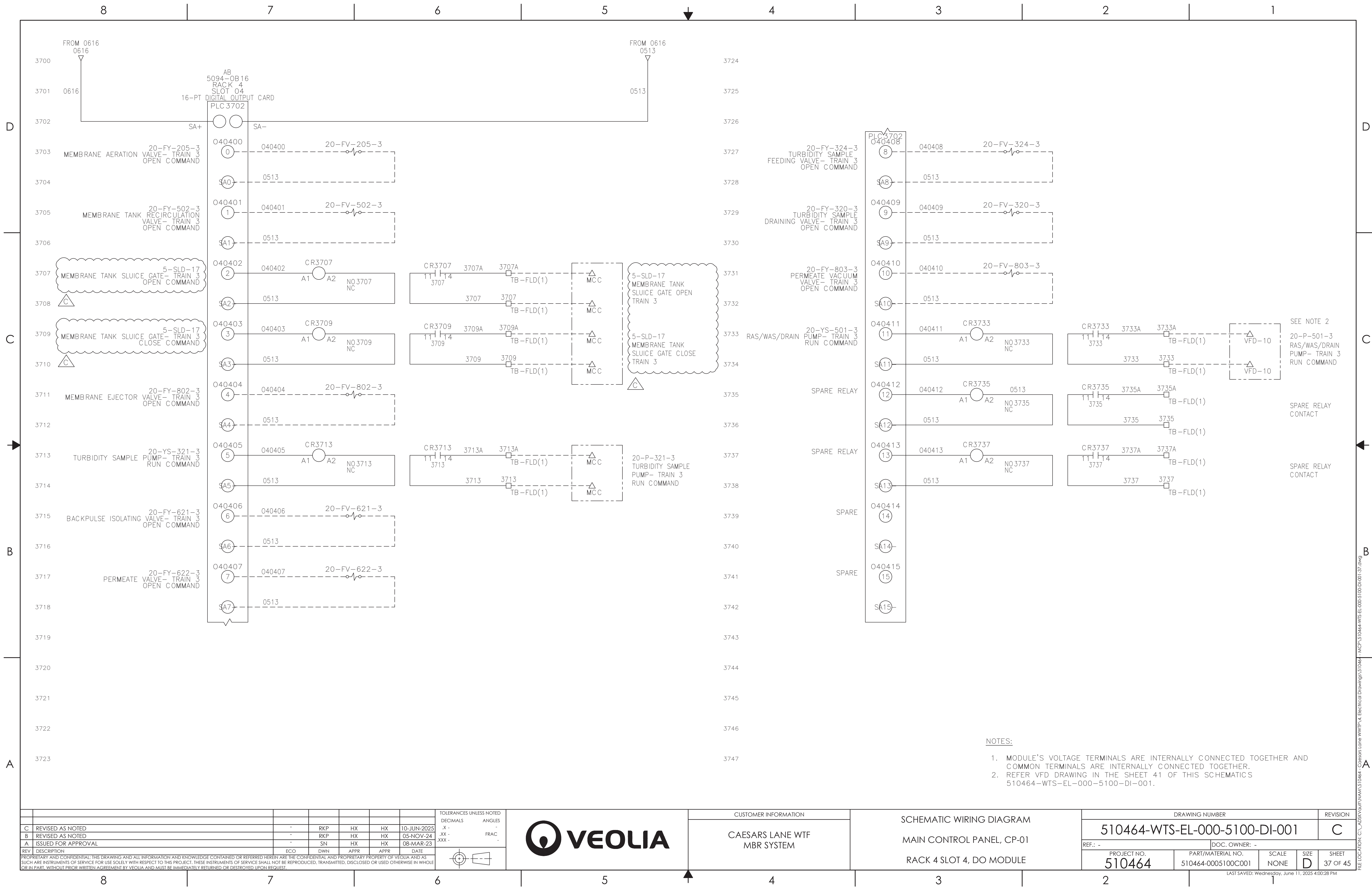
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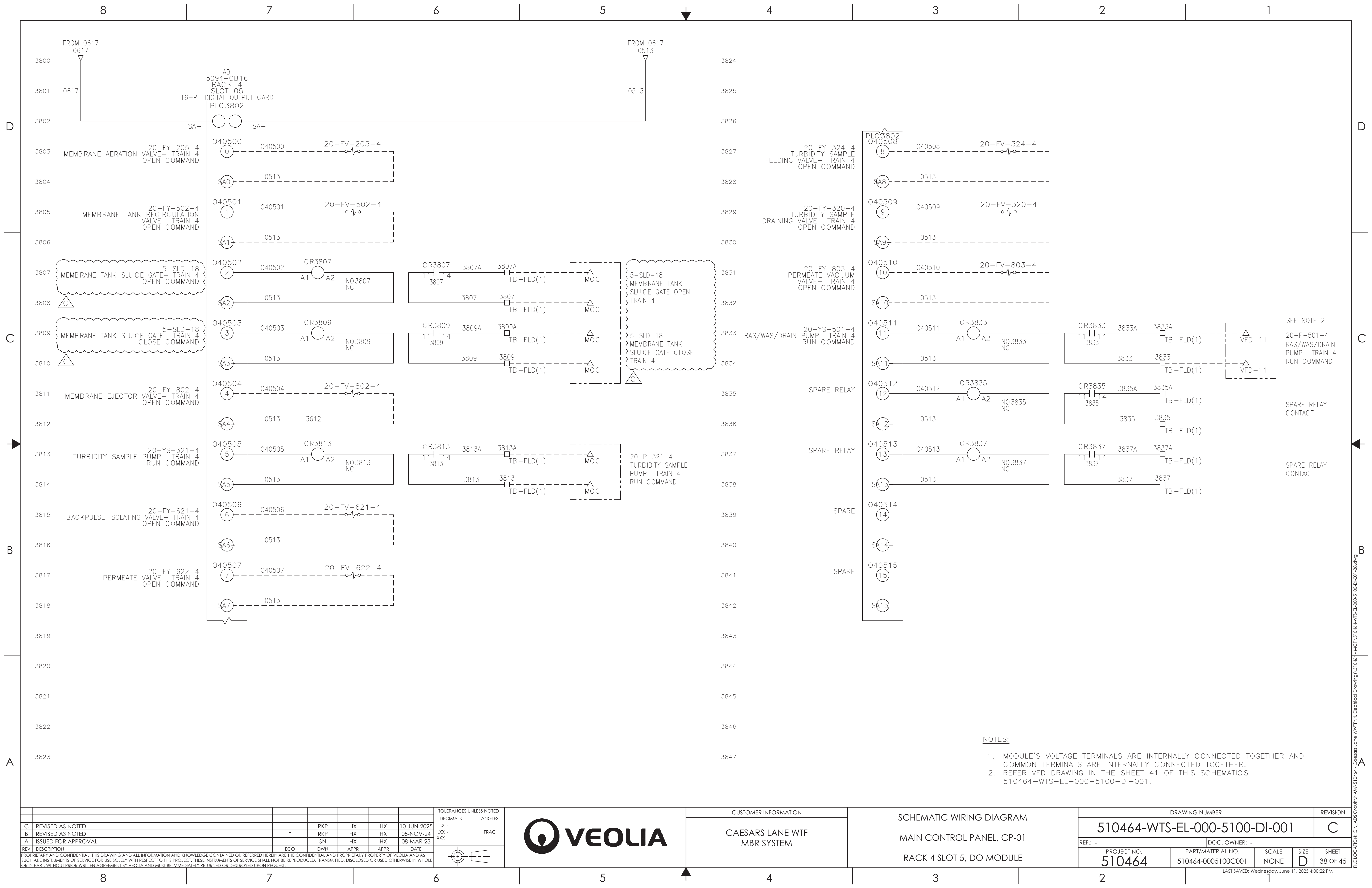
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A	ISSUED FOR APPROVAL	-	SN	HX	HX	08-MAR-23

TOLERANCES UNLESS NOTED	
DECIMALS	ANGLES
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.XX -	
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CUSTOMER INFORMATION

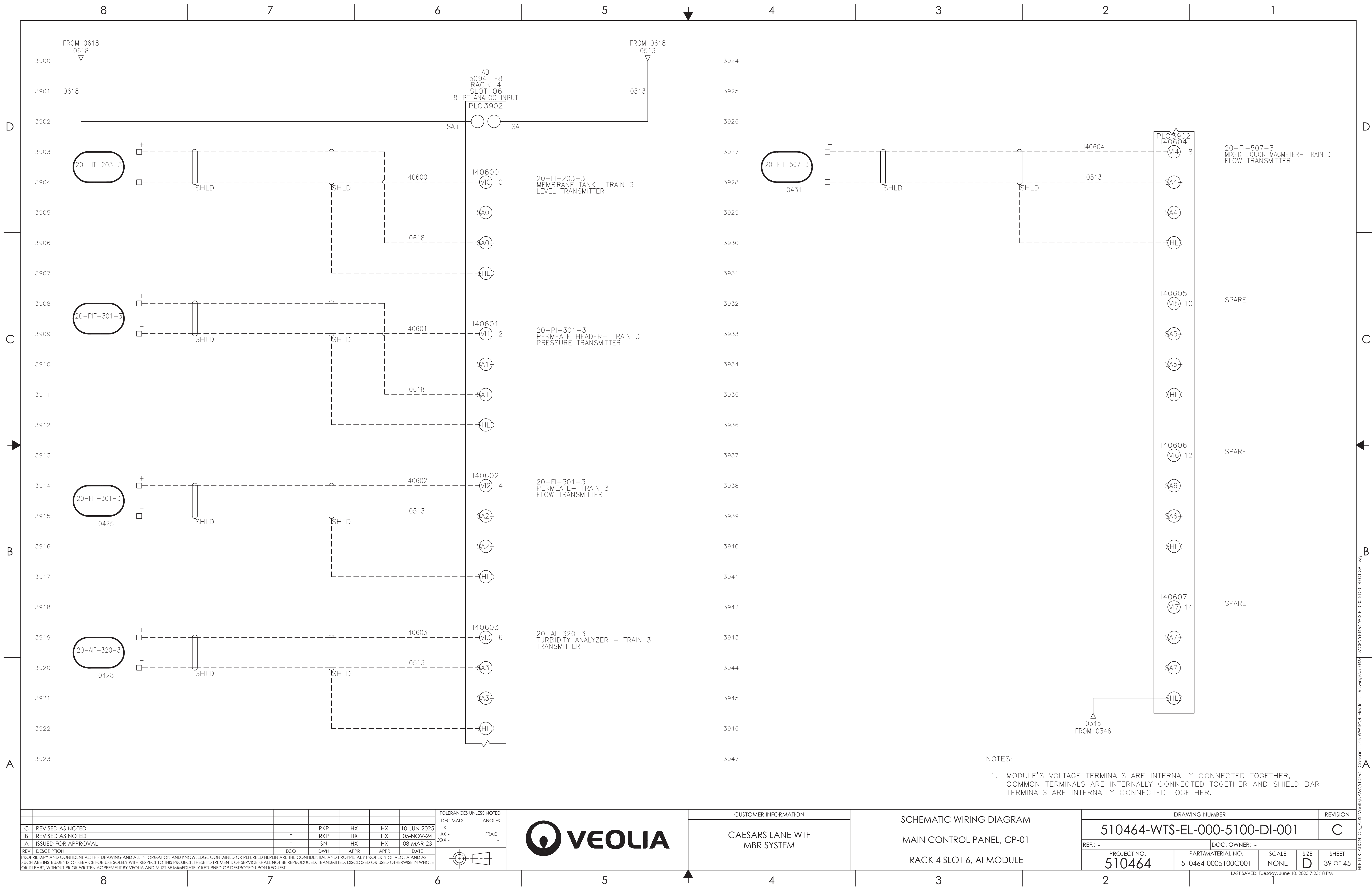
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MBR SYSTEM

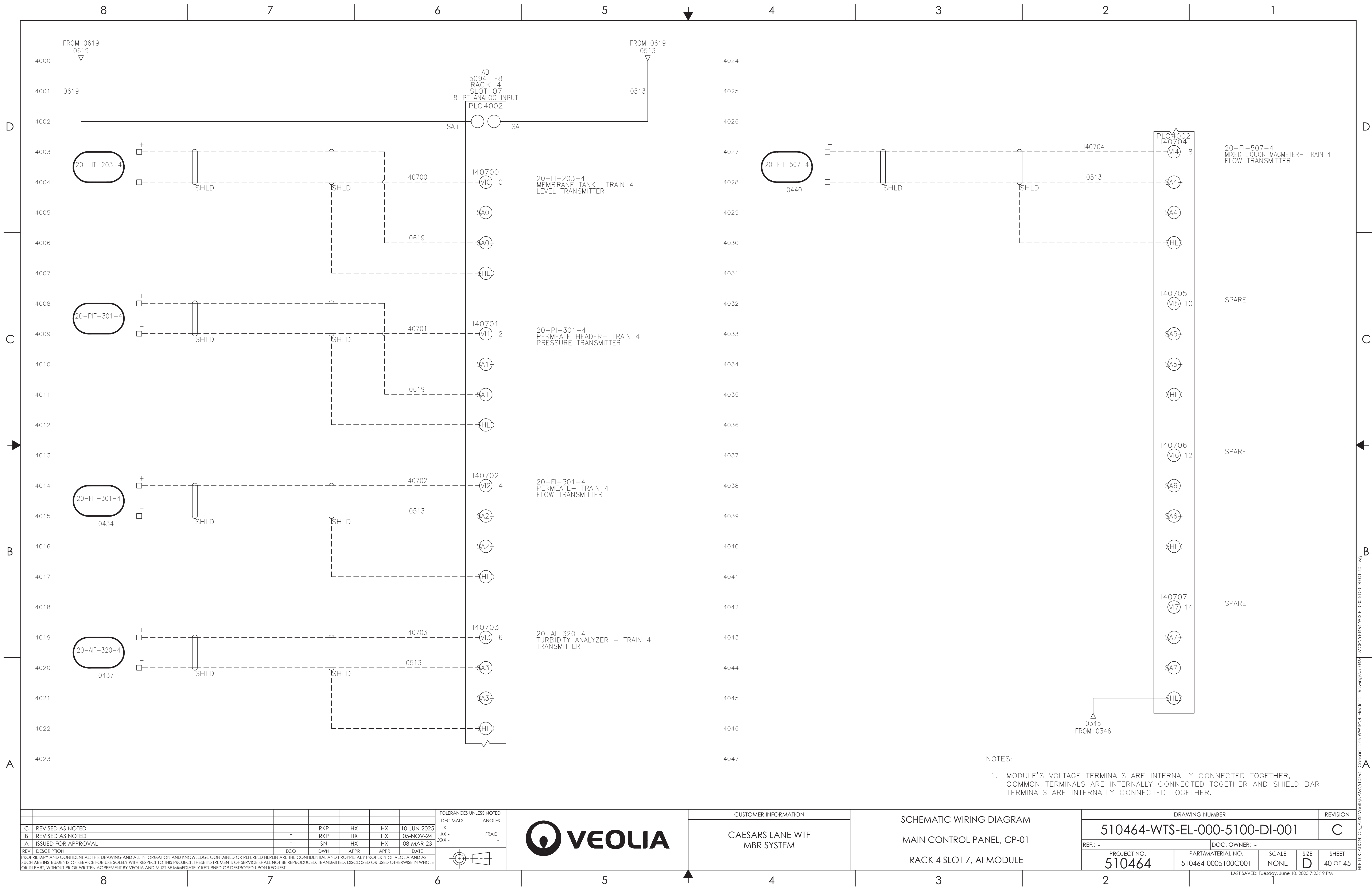
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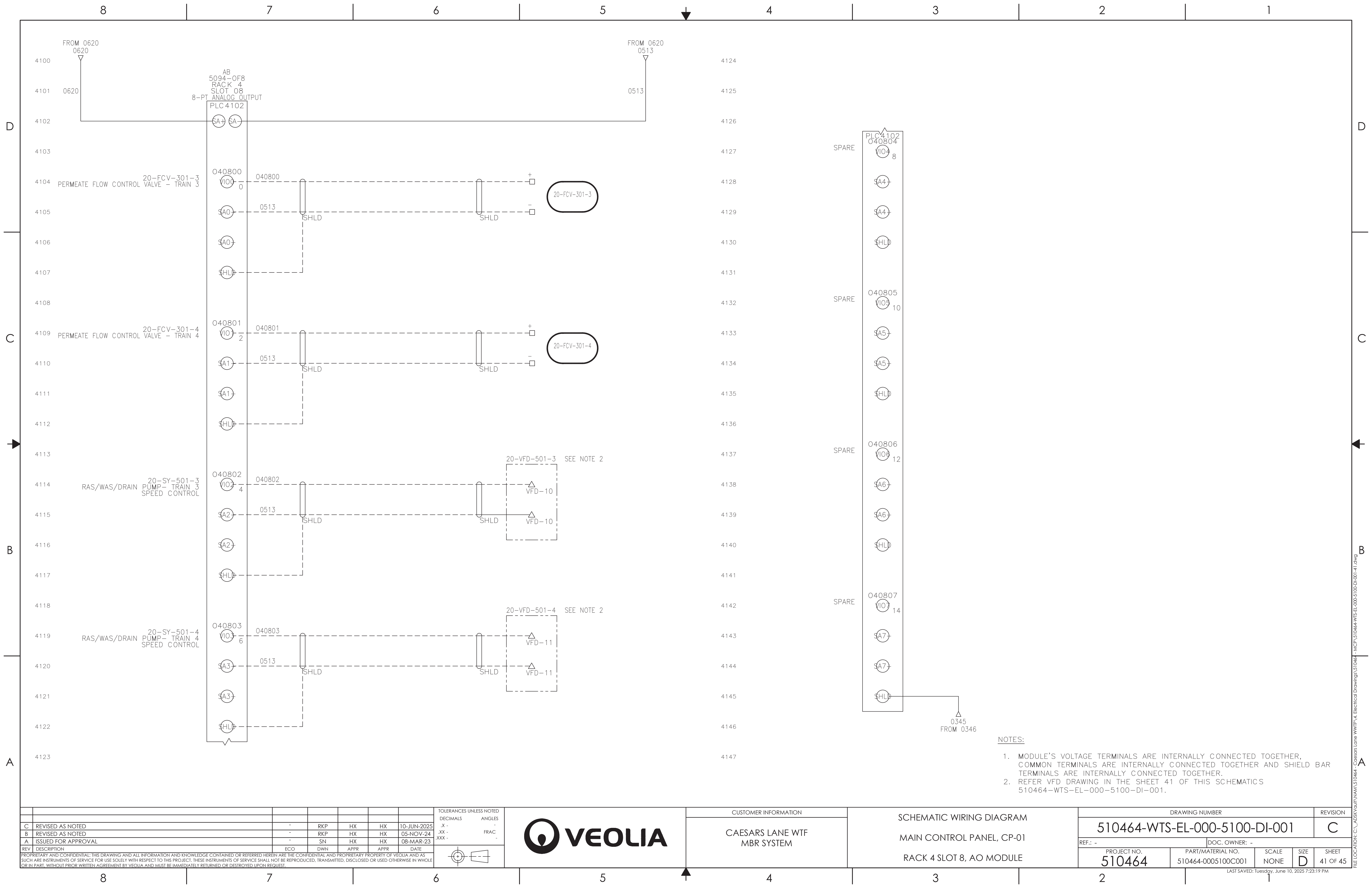
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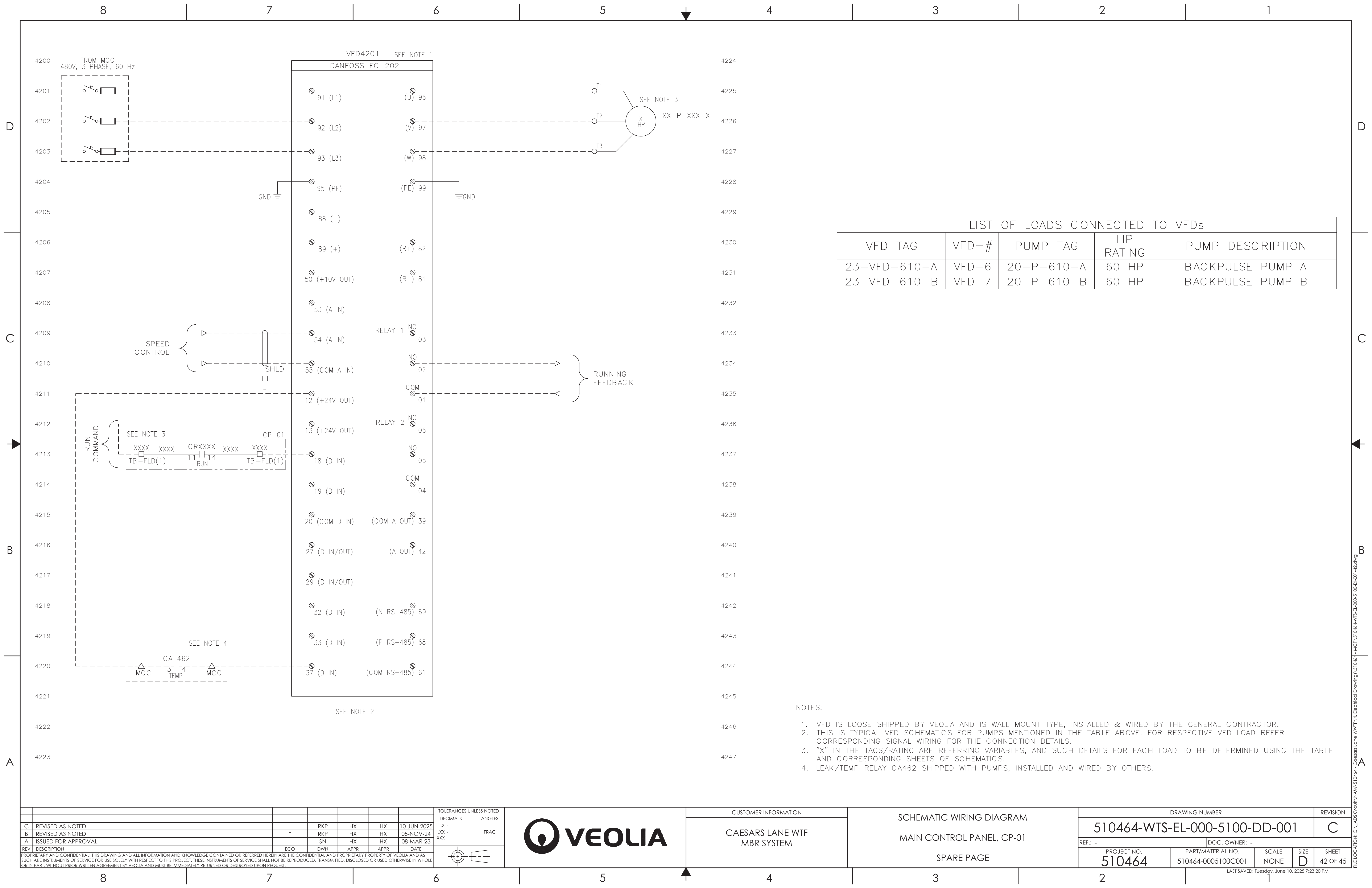
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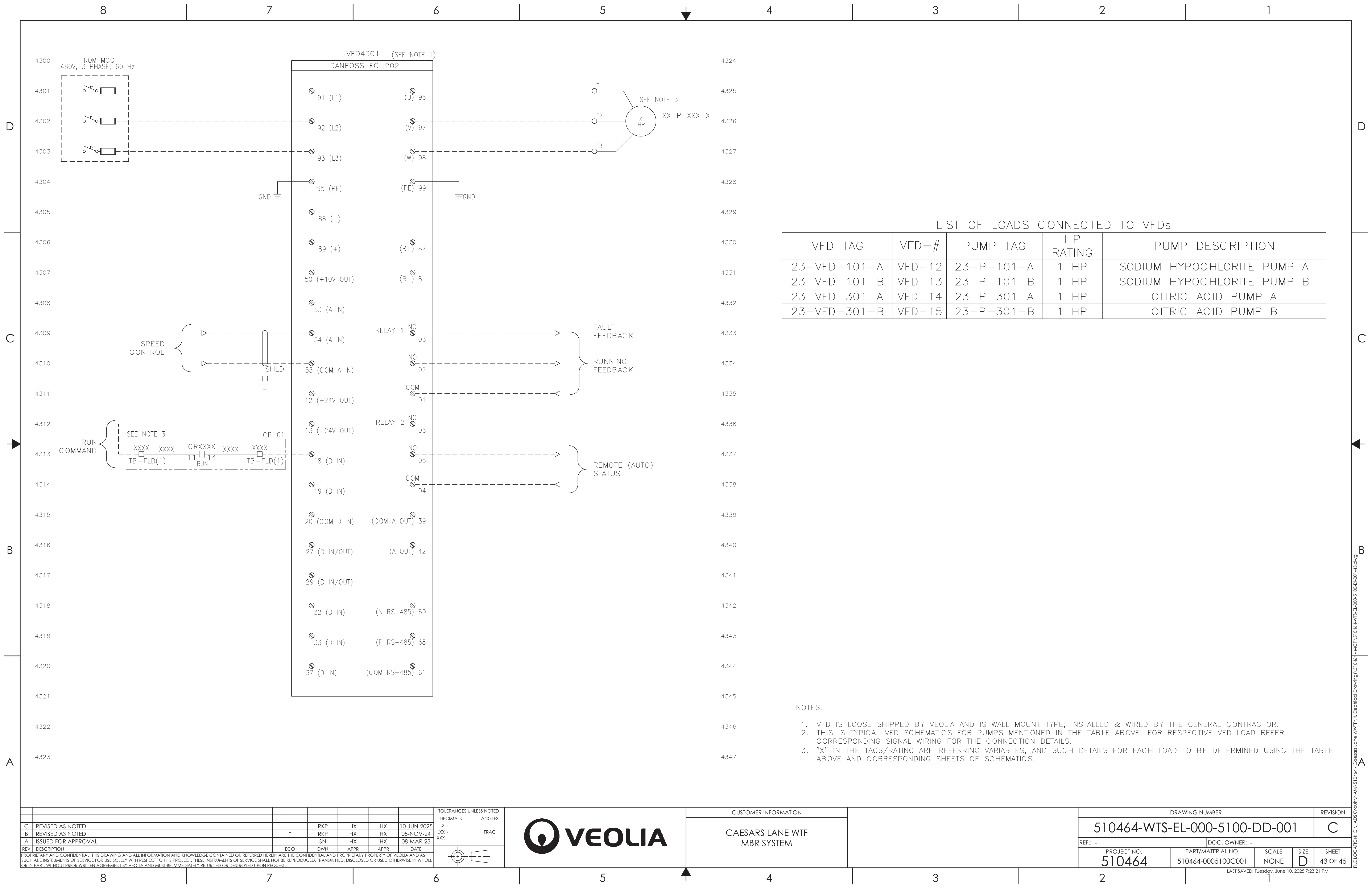
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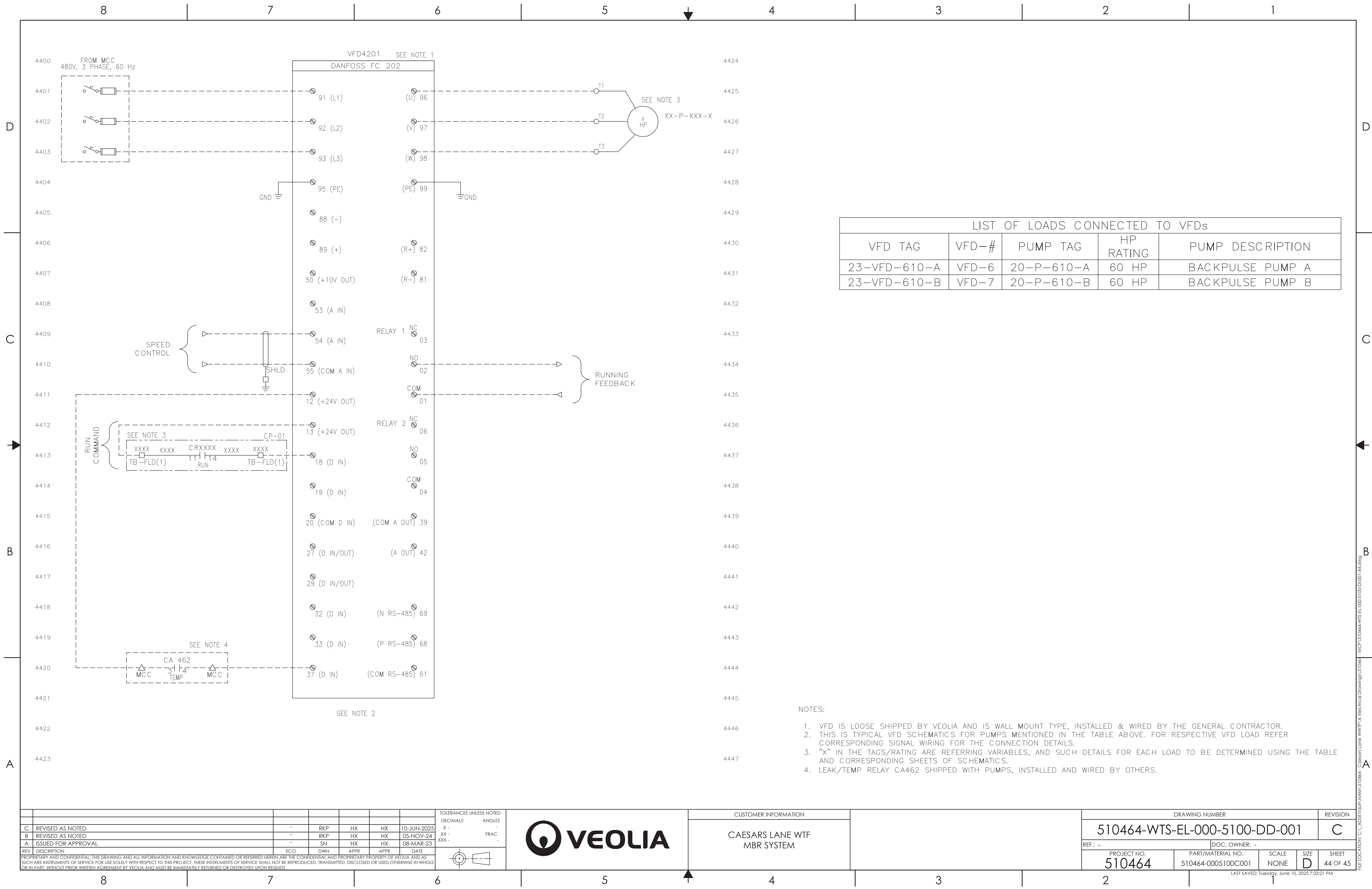


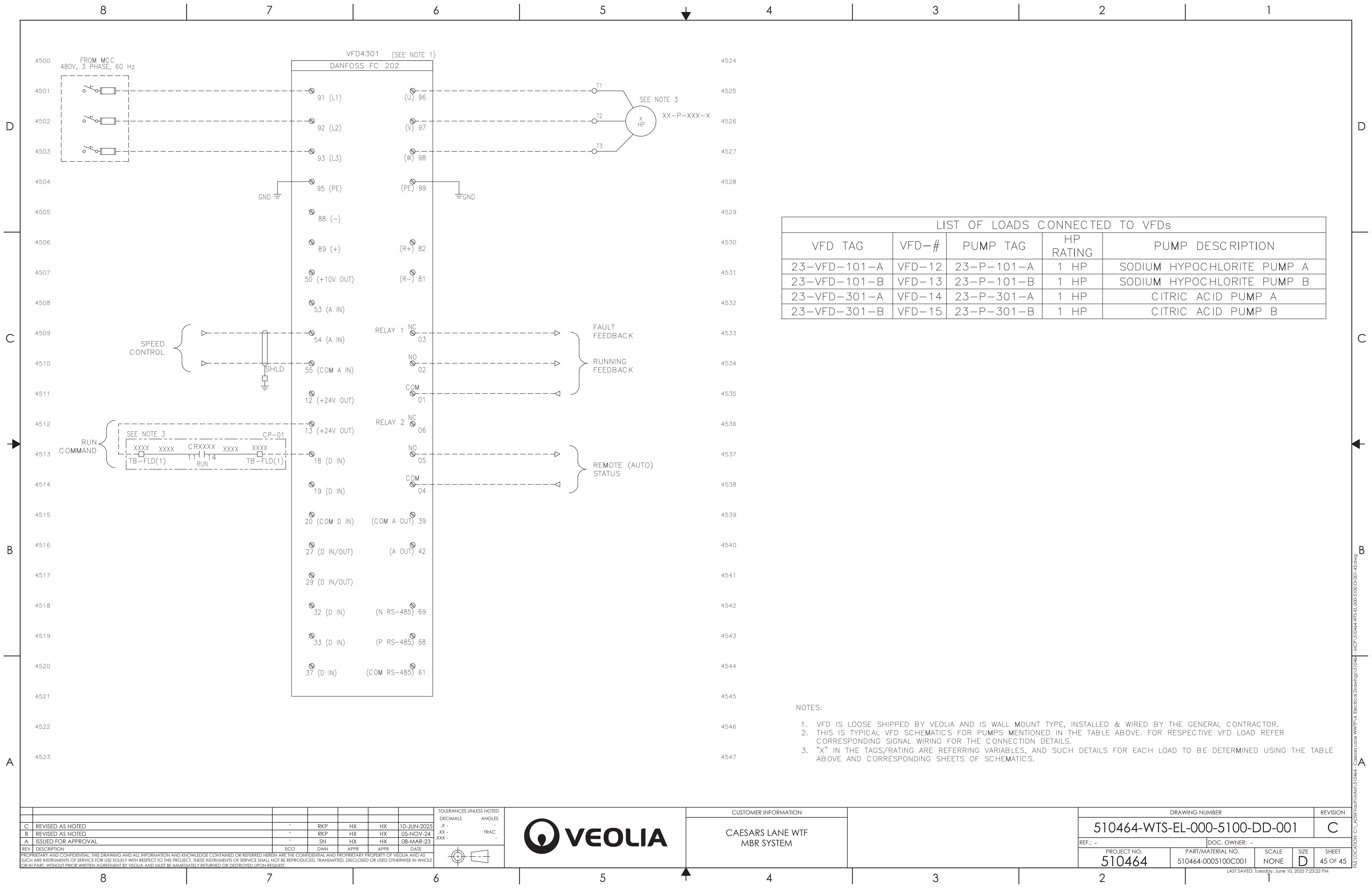




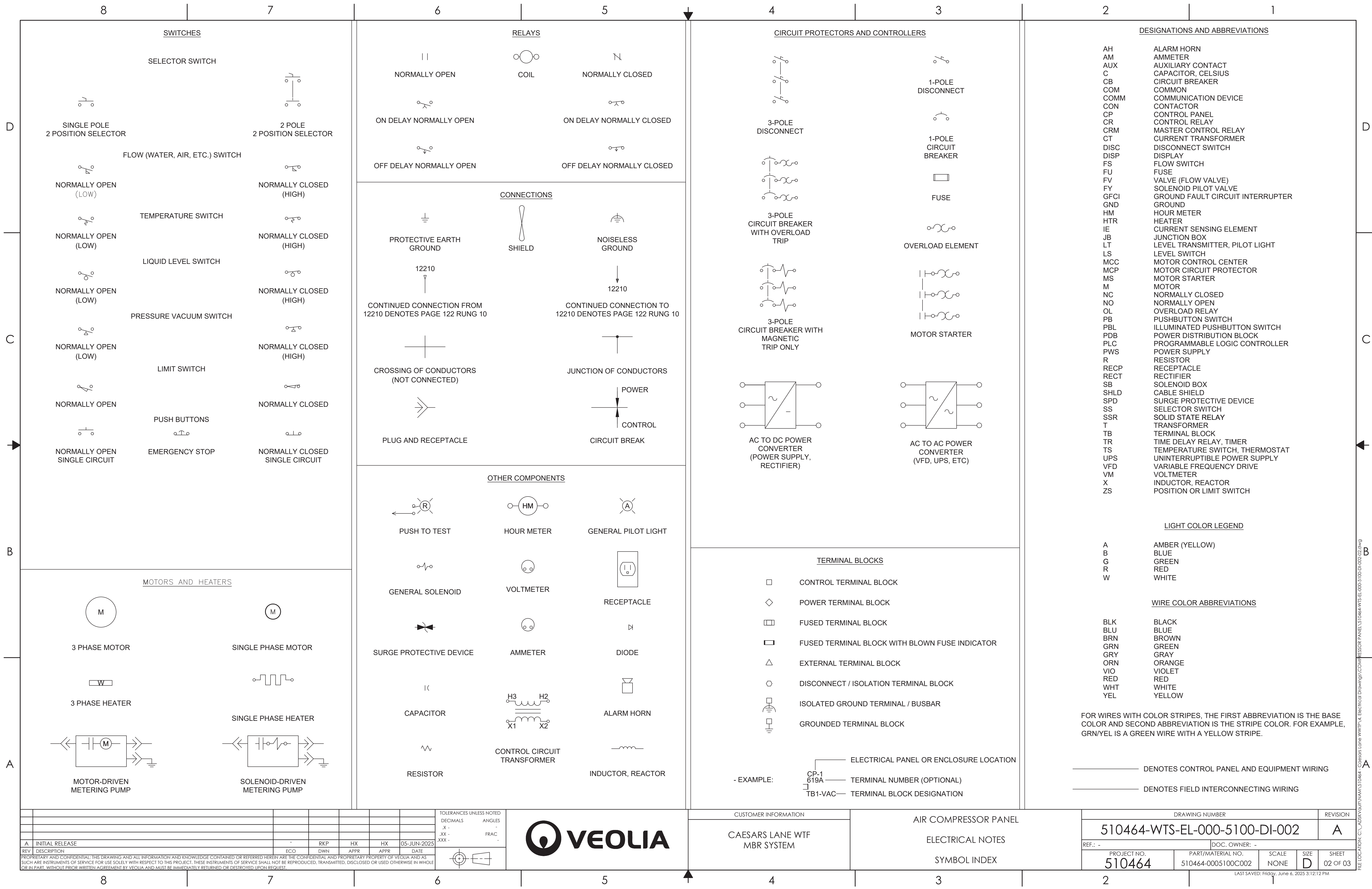


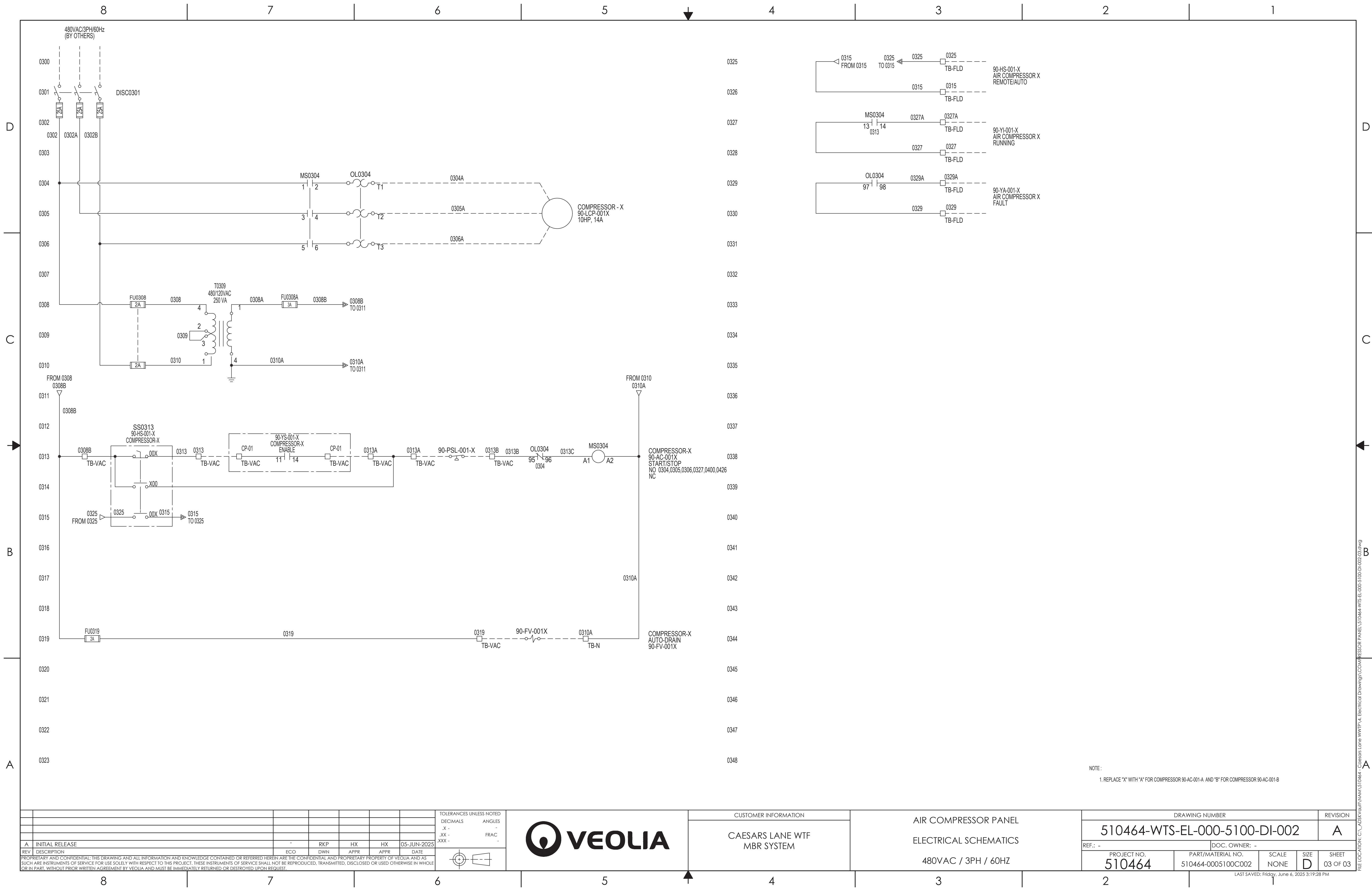




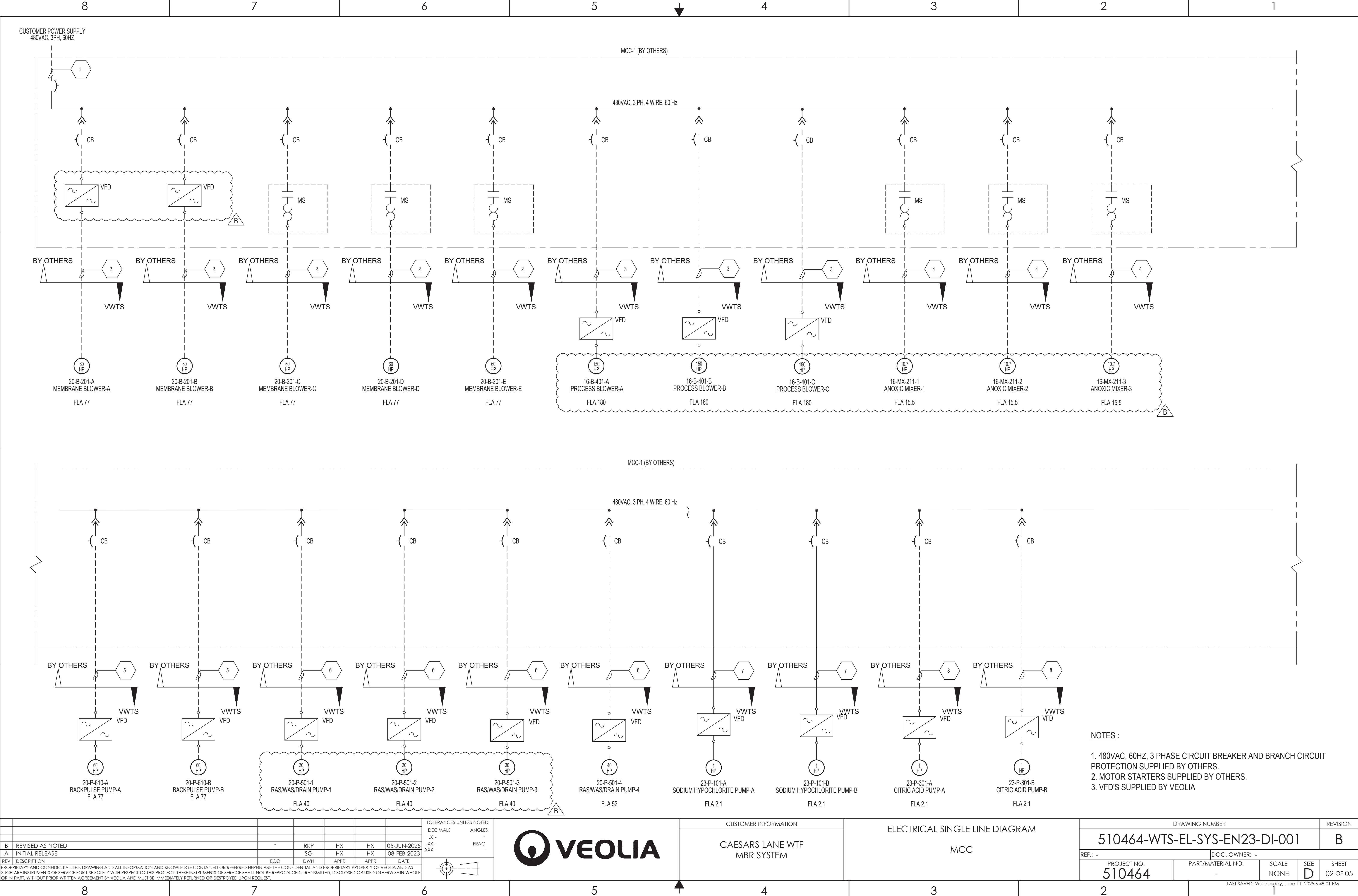


D	8		7		6		5		4		3		2		1		D																																							
	PREVAILING CODES AND SPECIFICATIONS NFPA 70 - NATIONAL ELECTRICAL CODE UL 508A - INDUSTRIAL CONTROL PANELS CONTROL PANELS ARE TO BE UL LISTED						RUNG NUMBERS USED WHEN A COMMON DRAWING NUMBER IS ASSIGNED FOR SEVERAL SHEETS - FIRST CHARACTER: - SECOND AND THIRD CHARACTERS: - FOURTH AND FIFTH CHARACTERS: SYSTEM SHEET NUMBER RUNG IDENTIFIER - EXAMPLE: 11204 11204 11204 SYSTEM (OPTIONAL): SHEET: RUNG: 1 12 04						TERMINAL AND WIRE NUMBERS ALL WIRE SHALL BE TAGGED AT TERMINATIONS WITH WIRE NUMBERS SHOWN ON DRAWINGS WITH ONE PIECE HEAT SHRINK TUBULAR WIRE MARKERS. MARKERS SHALL BE BRADY SLEEVE COMPUTER-PRINTED TYPE B-321 HEAT-SHRINK POLYOLEFIN STOCK NO. HCPS-9-3336W OR APPROVED EQUAL. USE THE FOLLOWING SCHEME FOR WIRES AND TERMINALS NOT CONNECTED TO PLC I/O • THE RUNG NUMBER IS USED TO IDENTIFY A WIRE AND ITS CORRESPONDING TERMINALS • WHEN THERE IS NO TERMINAL NUMBER SHOWN, THE TERMINAL NUMBER IS THE SAME AS THE WIRE NUMBER • WHERE THERE IS MORE THEN ONE WIRE ON A RUNG, THE OTHER WIRES ARE IDENTIFIED USING THE RUNG NUMBER FOLLOWED BY A LETTER. • USE THE FOLLOWING SCHEME FOR WIRES AND TERMINALS CONNECTED TO PLC I/O - FIRST CHARACTER: - SECOND * CHARACTER: - THIRD AND FOURTH CHARACTER: - FIFTH AND SIXTH CHARACTER: I FOR INPUTS, O FOR OUTPUTS RACK NUMBER SLOT NUMBER POINT NUMBER - EXAMPLE: 110300 110300 110300 TYPE: INPUT RACK: 1 SLOT: 03 POINT: 00 110300 110300 110300 * = 2 CHARACTERS IF THERE ARE MORE THAN 9 RACKS						EQUIPMENT AND INSTRUMENT TAG NUMBERS 11-XXX-222A-3 11-XXX-222A-3 11-XXX-222A-3 PROCESS AREA EQUIPMENT ABBREVIATION/INSTRUMENT FUNCTION EQUIPMENT NUMBER/INSTRUMENT LOOP NUMBER MULTIPLE INSTRUMENT IDENTIFIER (IF NECESSARY) IDENTICAL SKID/TRAIN IDENTIFIER (IF NECESSARY)						DESIGNATIONS FOR ELECTRICAL PANELS OR ENCLOSURES THE FOLLOWING DESIGNATIONS ARE USED IN THIS ELECTRICAL SCHEMATIC TO IDENTIFY THE LOCATION OF EACH TERMINAL BLOCK <table><thead><tr><th>DESIGNATION</th><th>DESCRIPTION</th><th>COMPLETE TAG NUMBER</th></tr></thead><tbody><tr><td>CP-01</td><td>MAIN CONTROL PANEL</td><td>CP-01</td></tr><tr><td>CP-11</td><td>TRAIN 1 REMOTE I/O PANEL</td><td>CP-11</td></tr><tr><td>CP-12</td><td>TRAIN 2 REMOTE I/O PANEL</td><td>CP-12</td></tr><tr><td>90-LCP-001-X</td><td>AIR COMPRESSOR PANELS</td><td>90-AC-001-A & B</td></tr></tbody></table>						DESIGNATION	DESCRIPTION	COMPLETE TAG NUMBER	CP-01	MAIN CONTROL PANEL	CP-01	CP-11	TRAIN 1 REMOTE I/O PANEL	CP-11	CP-12	TRAIN 2 REMOTE I/O PANEL	CP-12	90-LCP-001-X	AIR COMPRESSOR PANELS	90-AC-001-A & B	AIR COMPRESSOR PANEL ELECTRICAL NOTES LEGEND						DRAWING NUMBER 510464-WTS-EL-000-5100-DI-002 REVISION A REF.: - DOC. OWNER: - PROJECT NO. 510464 PART/MATERIAL NO. 510464-0005100C002 SCALE NONE SIZE D SHEET 01 OF 03				
DESIGNATION	DESCRIPTION	COMPLETE TAG NUMBER																																																						
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CP-11	TRAIN 1 REMOTE I/O PANEL	CP-11																																																						
CP-12	TRAIN 2 REMOTE I/O PANEL	CP-12																																																						
90-LCP-001-X	AIR COMPRESSOR PANELS	90-AC-001-A & B																																																						
C	CONTROL PANEL CONSTRUCTION AND INTERNAL WIRING • DESIGN, MATERIAL SELECTION, AND WORKMANSHIP SHALL RESULT IN A NEAT APPEARANCE OUTSIDE AND INSIDE, WITH NO WELDS, RIVETS OR BOLT HEADS APPARENT FROM THE FRONT FACE OF THE BOARDS AND ALL EXTERIOR SURFACES TRUE AND SMOOTH. • ANY INSTRUMENTS, RELAYS, AND OTHER DEVICES MOUNTED ON OR WITHIN THE ENCLOSURE SHALL BE CLEARLY TAGGED WITH ENGRAVED 1/16" THICK LAMINATED PLASTIC MARKERS. MARKERS SHALL BE SECURED TO THE MOUNTING PANEL OR INSIDE OF THE ENCLOSURE WITH DOUBLE FACED TAPE. MARKERS SHALL NOT BE MOUNTED ON THE COMPONENT OR WIRE DUCT. • ALL WIRES SHALL TERMINATE WITH FORK TYPE INSULATED WIRE COMPRESSION TYPE LUGS. UNLESS THE DEVICE IS EQUIPPED WITH A WIRE CLAMP, PRESSURE PLATE, OR TUBULAR SCREW CLAMP. • ALL INCOMING AND OUTGOING FIELD CONTROL WIRING SHALL TERMINATE AT TERMINAL BLOCKS. • NO MORE THAN 2 WIRES AT ANY SINGLE TERMINAL. • ALL CONDUCTORS SHALL RUN CONTINUOUSLY, SPLICING IS NOT ACCEPTABLE. • MOUNTING OF RELAY SOCKETS, TERMINAL BLOCKS, FUSED TERMINAL BLOCKS/SWITCHES AND THEIR MOUNTING TRACKS SHALL BE ON ONE PIECE SPACERS OR UNISTRUT. THE SPACERS SHALL BE OF A HEIGHT TO ALLOW WIRE ENTERING THESE DEVICES NOT TO BE MORE THAN 1 INCH BELOW COVERS OF THE PLASTIC WIREWAY ADJACENT TO THESE DEVICES. • GROUND ALL PANEL METAL TO THE PANEL'S EARTH-GROUND BUS. • WHERE WIRING CROSSES HINGED SURFACE, PROVIDE A 18" "U" SHAPE HINGE LOOP OF EXTRA FLEXIBLE WIRING • VEOLIA WTS DESIGN GUIDE E000001-WTS-EL-T02-8533-PR-012 - ELECTRICAL DEVICE DESIGNATIONS AND ABBREVIATIONS. • VEOLIA WTS SPECIFICATION E000001-WTS-EL-T02-8533-SP-025 - WIRING OF INDUSTRIAL CONTROL PANELS. • VEOLIA WTS SPECIFICATION E000001-WTS-EL-SYS-EN33-SP-005 - ELECTRICAL AND CONTROL SAFETY FEATURES. • VEOLIA WTS SPECIFICATION E000001-WTS-EL-SYS-EN33-SP-007 - ELECTRICAL PANEL MARKINGS & NAMEPLATES. • VEOLIA WTS SPECIFICATION E000001-WTS-EL-T02-8533-PR-001 - CONTROL PANEL AND WIRING DIAGRAM.						WIRING CONTROL WIRING SHALL BE #16 AWG STRANDED COPPER, THHN & THWN, 600 VOLT INSULATION., 90 DEG. C, ALL WIRING SHALL BE COLOR CODED AS FOLLOWS:						NOISELESS GROUND FOR INSTRUMENTATION • A CONTROL PANEL MAY INCLUDE A SEPARATE NOISELESS GROUND BUS THAT PROVIDES A COMMON GROUND REFERENCE POINT FOR INSTRUMENTATION CIRCUITS AND SHIELDS. WHERE THE NOISELESS GROUND BUS IS INSTALLED FROM THE PANEL ON WHICH IS MOUNTED, THERE IS A BONDING JUMPER FROM THIS GROUND BUS TO A POINT ON THE PANEL NEAR THE GROUND BUS. IF POSSIBLE, THE NOISELESS GROUND BUS SHOULD BE CONNECTED TO AN EXTERNAL GROUND THAT IS FREE OF ELECTRICAL NOISE. TO PROVIDE LOW IMPEDANCE, THIS GROUND CONNECTION SHOULD USE COPPER BRAID, COPPER STRIP, OR A 6 AWG OR LARGER WIRE. IF THERE IS AN EXTERNAL GROUND CONNECTION, THE WIRE FROM THE GROUND BUS TO THE PANEL MUST BE REMOVED (THE JUMPER MAY BE LABELED "REMOVE THIS WIRE WHEN USING AN ISOLATED GROUND SYSTEM"). • VEOLIA WTS SPECIFICATION E000001-WTS-EL-T02-8533-SP-020- GROUNDING IN INDUSTRIAL CONTROL PANELS.						FIELD INTERCONNECTING WIRING • FIELD WIRING MATERIALS AND INSTALLATION LABOR ARE NOT PROVIDED BY VEOLIA. ALL FIELD CONNECTIONS TO FIELD WIRING TERMINALS IN ENCLOSURES SHALL MEET ANY MARKED REQUIREMENTS FOR WIRE TYPE, TEMPERATURE RATING AND TIGHTENING TORQUE. TYPICALLY STRANDED COPPER CONDUCTORS ARE REQUIRED. TYPICALLY CONDUCTOR AMPACITIES MUST BE CALCULATED AT 60°C FOR TERMINALS RATED FOR LESS THAN 100 AMPS OR AT 75°C FOR TERMINALS RATED FOR 100 AMPS OR MORE. THE VEOLIA DESIGN IN THIS DRAWING SET IS FOR THE INSTALLATION CONDITIONS SPECIFIED FOR THE VEOLIA EQUIPMENT. ANY CONDUCTOR SIZE, WIRING MATERIAL OR OTHER DESIGN ELEMENT SPECIFIED IN THIS DRAWING SET IS THE MINIMUM REQUIRED BY THE VEOLIA DESIGN FOR THE SPECIFIED INSTALLATION CONDITIONS. THE INSTALLATION LOCATION MIGHT HAVE UNSPECIFIED PROBLEMATIC CONDITIONS SUCH AS ELECTROMAGNETIC INTERFERENCE, HIGH VOLTAGE DROP IN LONG CABLE RUNS OR SPECIAL ENVIROMENTAL CONDITIONS INCLUDING ULTRAVIOLET LIGHT (UV OR SUNLIGHT), HIGH TEMPERATURE, LOW TEMPERATURE, HIGH VIBRATION, OIL, CORROSIVE SALTS, VAPORS OR FUMES. THE ELECTRICAL EQUIPMENT PRODUCED ACCORDING TO THIS DRAWING SET IS NOT DESIGNED TO BE SUITABLE FOR MANY OF THE POSSIBLE UNSPECIFIED INSTALLATION CONDITIONS. THE INSTALLER IS RESPONSIBLE FOR PROVIDING A FIELD ELECTRICAL INSTALLATION THAT IS SUITABLE FOR THE ACTUAL INSTALLATION CONDITIONS. THIS RESPONSIBILITY INCLUDES LOCAL CODE REQUIREMENT COMPLIANCE AND DAMAGE REPAIR DUE TO SIGNIFICANT DETERIORATION (AT LEAST FOR THE VEOLIA WARRANTY PERIOD) OR INADEQUATE PROTECTION FROM PHYSICAL DAMAGE. IF UNSPECIFIED INSTALLATION CONDITIONS OR DEFICIENT INSTALLATION WORKMANSHIP REQUIRE MODIFICATION OF THE INSTALLATION OR EQUIPMENT, VEOLIA IS NOT RESPONSIBLE FOR THE MODIFICATION COSTS WHICH CAN INCLUDE BUT ARE NOT LIMITED TO LARGER CONDUCTORS, REPLACEMENT WIRING MATERIALS, LABOR, AND LIQUIDATED DAMAGES.						ADDITIONAL NOTES VEOLIA WTS CONTROLLED DOCUMENT																															
	B	TESTING PRE-VEOLIA INSPECTION - WHEN ALL WIRING OF ELECTRICAL SYSTEM IS COMPLETE, THE FABRICATOR SHALL TEST EACH CIRCUIT FOR CONTINUITY, SHORT CIRCUIT AND FAULT GROUNDS AND COMPLETE WIRING INSPECTION CHECKLIST E000001-WTS-EL-PRD-PHAS-DA-CHK-02. FACILITIES - PANEL VENDOR SHALL SUPPLY A WORK/TEST AREA FOR PANEL CHECK-OUTS. FOR WALL MOUNTED ENCLOSURES, THIS AREA SHALL INCLUDE A STAND OR PLATFORM TO MOUNT AND SUPPORT THE PANEL VERTICALLY AT BENCH HEIGHT. - THE WORK/TEST AREA SHALL BE ISOLATED/SEPARATED FROM THE PANEL ASSEMBLY/MFG. AREA SO TESTING CAN BE DONE WITHOUT INTERRUPTION. - THE WORK/TEST ARE SHALL BE PROVIDED WITH ADEQUATE LIGHTING COMPLETE WITH TABLE/BENCH FOR INSPECTORS USE TO WORK WITH TEST EQUIPMENT AND DRAWINGS. VEOLIA INSPECTION - PANEL VENDOR SHALL SUBJECT TO BACK-CHARGES, IF AFTER ARRIVAL OF VEOLIA INSPECTOR(S) FOR INSPECTION, IS DETERMINED THAT PANEL VENDOR HAS NOT PREPARED FOR VEOLIA INSPECTION AND OR NOT COMPLETED "PRE-VEOLIA INSPECTION" OR PROVIDED ITEMS NOTED UNDER "FACILITIES". - AFTER VENDOR CIRCUIT TESTING IS COMPLETE, VEOLIA WILL PERFORM FUNCTION TESTING OF THE CONTROL PANEL COMPONENTS AS A SYSTEM TO CONFIRM OPERATION AND MAKE CALIBRATION ADJUSTMENT, IF NECESSARY. PANEL VENDOR SHALL PROVIDE TEMPORARY POWER AND/OR INSTRUMENT QUALITY AIR SUPPLY AS REQUIRED BY PANEL DESIGN. PANEL VENDOR SHALL PROVIDE TEMPORARY WIRING INCLUDING BUT NOT LIMITED TO TOGGLE SWITCHES, 120VAC AND/OR 24VDC INDICATING LIGHTS TO FACILITATE THE TESTING. THE PANEL VENDOR WILL ALSO BE RESPONSIBLE FOR CONNECTING VARIOUS WIRE JUMPERS ON THE PANEL FIELD TERMINALS. ALL TEMPORARY TEST WIRING WILL BE REMOVED BY THE VENDOR BEFORE THE PANEL IS SHIPPED. - PANEL VENDOR TO PROVIDE QUALIFIED QUALITY CONTROL INSPECTOR/TESTER TO VEOLIA PERSONNEL WITH FUNCTION TESTING OF THE CONTROL PANEL. PANEL VENDOR'S PERSONNEL MUST BE FAMILAR WITH CONTROL PANEL FABRICATION, WIRING INSTALLATION/CIRCUITRY, AND FULLY UNDERSTAND VEOLIA SCHEMATIC WIRING DIAGRAMS. PANEL VENDOR'S PERSONNEL TO BE AVAILABLE TO ASSIST VEOLIA INSPECTOR AS NEEDED.						WIRE COLORS GREEN WITH YELLOW STRIPE (OR GREEN) WHITE BLACK RED BLUE WHITE WITH BLUE STRIPE ORANGE WHITE(+), BLACK(-) WHITE WITH ORANGE STRIPE LIGHT BLUE						CONDUCTOR TYPE EQUIPMENT GROUNDING AND BONDING CONDUCTORS GROUNDED AC (L2/NEUTRALS) CURRENT-CARRYING CONDUCTORS UNGROUND AC (L1) OR DC POWER CIRCUITS CONDUCTORS UNGROUND AC CONTROL CIRCUITS CONDUCTORS UNGROUND DC CONTROL CIRCUITS CONDUCTORS GROUNDED DC (0VDC) CONTROL CIRCUIT CONDUCTORS UNGROUND CONDUCTORS FOR AC AND DC REMOTE CONTROL CIRCUITS ANALOG TWISTED SHIELD PAIR CABLE GROUNDED CURRENT CARRYING CONDUCTORS FOR REMOTE CONTROL CIRCUITS INTRINSICALLY SAFE WIRING						VEOLIA WTS SPECIFICATION E000001-WTS-EL-T02-8533-SP-020- GROUNDING IN INDUSTRIAL CONTROL PANELS.																																				
A		TOLERANCES UNLESS NOTED DECIMALS .X - .XX - XXX - ANGLES - FRAC -						CUSTOMER INFORMATION CAESARS LANE WTF MBR SYSTEM						AIR COMPRESSOR PANEL ELECTRICAL NOTES LEGEND						DRAWING NUMBER 510464-WTS-EL-000-5100-DI-002 REVISION A REF.: - DOC. OWNER: - PROJECT NO. 510464 PART/MATERIAL NO. 510464-0005100C002 SCALE NONE SIZE D SHEET 01 OF 03																																				
	8						7						6						5						4						3						2						1													





D	8	7	6	5	4	3	2	1	D	
	LINE/CONNECTION DESCRIPTION	LINE STYLE/ SYMBOL	SYMBOL DESCRIPTION	SYMBOL ANSI	SYMBOL IEC	SYMBOL DESCRIPTION	SYMBOL ANSI	SYMBOL IEC		
	PANEL AND EQUIPMENT WIRING		INDUCTION MOTOR			NON-FUSED DISCONNECT				
	FIELD INTERCONNECTING WIRING BY OTHERS		HEATER LOAD			FUSE				
	ELECTRICAL ASSEMBLY BOUNDARY		ELECTRODIALYSIS STACK			① SUPPLEMENTARY PROTECTOR ② CIRCUIT BREAKER	①	②		
	CROSSING OF CONDUCTORS (NOT CONNECTED)		TRANSFORMER			OVERLOAD				
	INTERLOCK		CURRENT TRANSFORMER			CONTACTOR				
	JUNCTION OF CONDUCTORS		POTENTIAL TRANSFORMER			OPERATING COIL				
	UPWARD POWER FLOW		TRANSFORMER WITH MULTIPLE WINDINGS			AC/DC POWER SUPPLY, RECTIFIER, DC DRIVE				
	CIRCUIT NUMBER		3-PHASE, DELTA			VARIABLE FREQUENCY DRIVE, UNINTERRUPTIBLE POWER SUPPLY				
C	CONTINUATION ARROW		3-PHASE, WYE, UNGROUNDED			KEY INTERLOCK				
	CIRCUIT BREAK		3-PHASE, WYE, GROUNDED NEUTRAL			REFLECTED WAVE TRAP				
	IEC 2-WIRE CIRCUIT		INDUCTOR, REACTOR			TERMINAL BLOCK				
	IEC 3-WIRE CIRCUIT		CAPACITOR			RECEPTACLE, FEMALE CONNECTOR				
	IEC 4-WIRE CIRCUIT		EARTH GROUND			PLUG, MALE CONNECTOR				
B	-	VEOLIA WTS CONTROLLED DOCUMENT				SEPARABLE CONNECTOR				
A										



REV	DESCRIPTION	ECO	DWN	APPR	APPR	DATE
B	REVISED AS NOTED					
A	INITIAL RELEASE					

TOLERANCES UNLESS NOTED	DECIMALS	ANGLES
.X -		
.XX -		
.XXX -		

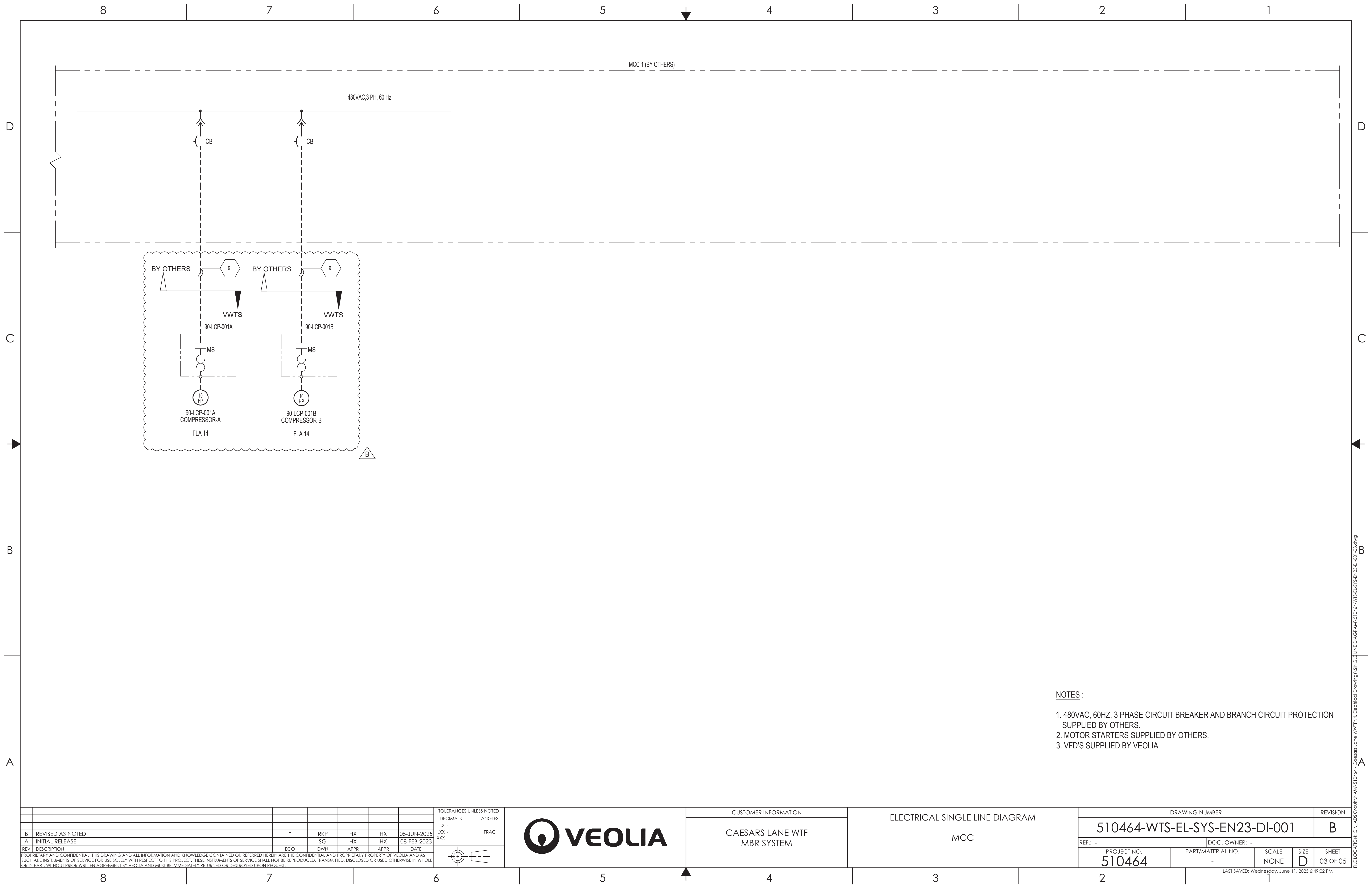


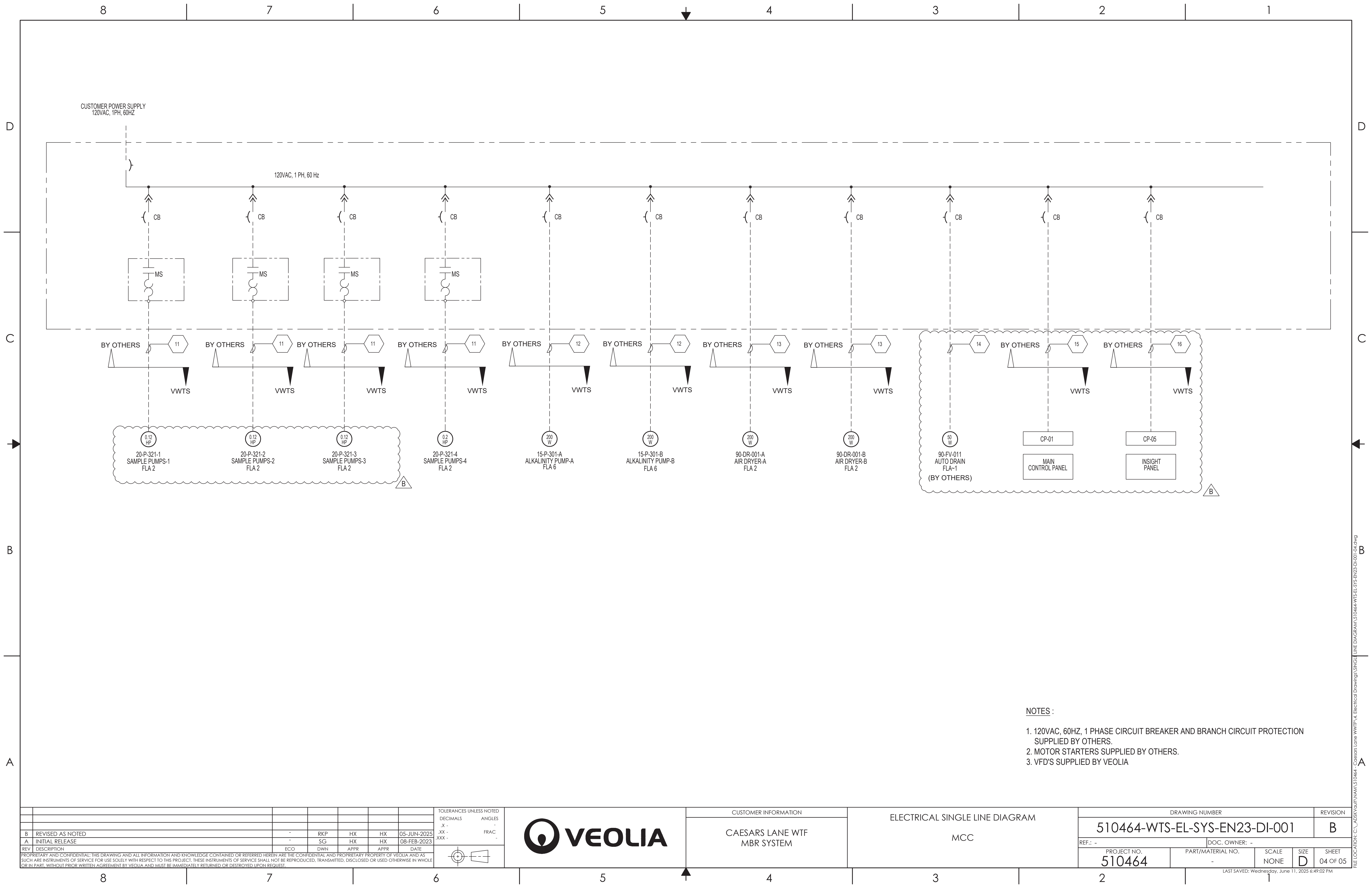
CUSTOMER INFORMATION
CAESARS LANE WTF MBR SYSTEM

ELECTRICAL SINGLE LINE DIAGRAM
MCC

DRAWING NUMBER	REVISION
510464-WTS-EL-SYS-EN23-DI-001	B
REF.: -	DOC. OWNER: -
PROJECT NO. 510464	PART/MATERIAL NO. -
SCALE NONE	SIZE D
SHEET 02 OF 05	

LAST SAVED: Wednesday, June 11, 2025 6:49:01 PM





8										7										6										5										4										3										2										1									
CIRCUIT INFORMATION																														INSTALLATION INFORMATION																																																	
NO		TYPE		QTY		MCC-1 LOAD DESCRIPTION										VOLTAGE		LOAD		FLA		OVERCURRENT PROTECTION										CONTROLLER OR TRANSFORMER										TERM TEMP		AMB TEMP		WIRING		CONDUIT		LENGTH		NOTES																											
1		FEEDER		1		INCOMING POWER MOTOR CONTROL ENCLOSURE										460/3/60						CIRCUIT BREAKER																																																									
2		BRAN		5		MEMBRANE BLOWERS										480/3/60		60HP		77		CIRCUIT BREAKER										VFD, CT (BY CLIENT) FVNR (BY CLIENT)																																															
3		BRAN		3		PROCESS AERATION BLOWERS										480/3/60		150HP		180		CIRCUIT BREAKER										VFD, CT (BY CLIENT)																																															
4		BRAN		3		ANOXIC TANK MIXER										480/3/60		10.7HP		15.5		CIRCUIT BREAKER										FVNR (BY CLIENT)																																															
5		BRAN		2		BACKPULSE PUMP										460/3/60		60 HP		77		CIRCUIT BREAKER										VFD, VT (BY VWTS)																																															
6		BRAN		4		RAS/WAS/DRAIN PUMP										460/3/60		30HP		40		CIRCUIT BREAKER										VFD, VT (BY VWTS)																																															
7		BRAN		2		SODIUM HYPOCHLORITE PUMP										460/3/60		1HP		2.1		CIRCUIT BREAKER										VFD, VT (BY VWTS)																																															
8		BRAN		2		CITRIC ACID PUMP										460/3/60		1HP		2.1		CIRCUIT BREAKER										VFD, VT (BY VWTS)																																															
9		BRAN		2		COMPRESSOR A/B										460/3/60		10HP		14		CIRCUIT BREAKER										FVNR (BY VWTS)																																															
10		BRAN		2		AIR DRYER										120/1/60		200W		2		CIRCUIT BREAKER										-																																															
11		BRAN		4		SAMPLE PUMPS										120/1/60		0.12HP		2		CIRCUIT BREAKER										FVNR (BY CLIENT)																																															
12		BRAN		2		ALKANITY PUMP										120/1/60		200W		2		CIRCUIT BREAKER										-																																															
13		BRAN		2		AIR DRYER										120/1/60		200W		2		CIRCUIT BREAKER										-																																															
14		BRAN		1		AUTO DRAIN (BY OTHERS)										120/1/60		50W		1		CIRCUIT BREAKER																																																									
15		BRAN		1		PLC MAIN CONTROL PANEL CP-01										120/1/60		-		15		CIRCUIT BREAKER																																																									
16		BRAN		1		INSIGHT COMMUNICATION PANEL CP-05										120/1/60		-		5		CIRCUIT BREAKER																																																									
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