

Blue Ash Road Phase 2 - PID 119069 - 2025-02-14

CONDUIT							CABLE AND WIRE						IS [A] LESS THAN 0.25C?	FINAL CONDUIT NOMINAL DIAMETER
FROM	TO	RUN LENGTH	SIZE/NOMINAL DIAMETER	INSIDE DIAMETER	C	0.25C	CABLE USE	SPECIFICATION OR MATERIAL	NO. OF CONDUCTORS AWG	NO. CABLES OR WIRES*	a	[A]		
					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.	IN.	
SP4	B5	5	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	0	0	0.773	YES	3
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	2	0.38			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	1	0.22			
							-	-	-	-	-			
							-	-	-	-	-			
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							-	-	-	-	-			
P3	B5	11	2	2.067	3.36	0.84	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	0.463	YES	2
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	1	0.19			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	0	0			
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							-	-	-	-	-			
B5	B4	59	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	1.463	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	3	0.57			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	1	0.22			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	4	0.4			
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							-	-	-	-	-			
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* NOTE: INCLUDE GROUNDING CONDUCTOR IN WIRE COUNT FOR LIGHTING CIRCUITS OF NOTATION "WITH GROUND."

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FROM	TO	RUN LENGTH	SIZE/NOMINAL DIAMETER	INSIDE DIAMETER	C	0.25C	CABLE USE	SPECIFICATION OR MATERIAL	NO. OF CONDUCTORS AWG	NO. CABLES OR WIRES*	a	[A]		
					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.	IN.	
SP3	B4	18	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	1.213	YES	3
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	2	0.38			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	1	0.22			
							-	-	-	-	-			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
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P2	B4	17	2	2.067	3.36	0.84	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	0.463	YES	2
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	1	0.19			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	0	0			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
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							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
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-	-	-	-	-										
-	-	-	-	-										
B4	B3	68	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	3	0.3	2.793	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	6	1.14			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	2	0.44			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	4	0.4			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173										
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FROM	TO	RUN LENGTH	SIZE/NOMINAL DIAMETER	INSIDE DIAMETER	C	0.25C	CABLE USE	SPECIFICATION OR MATERIAL	NO. OF CONDUCTORS AWG	NO. CABLES OR WIRES*	a	[A]		
					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.	IN.	
B3	B7	52	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	5	0.5	2.8	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	10	1.9			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	0	0			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	4	0.4			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	0	0			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	0	0			
B3	B7	52	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	0	0	1.173	YES	3
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	0	0			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	3	0.66			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	0	0			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
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FROM	TO	RUN LENGTH	SIZE/NOMINAL DIAMETER	INSIDE DIAMETER	C	0.25C	CABLE USE	SPECIFICATION OR MATERIAL	NO. OF CONDUCTORS AWG	NO. CABLES OR WIRES*	a	[A]		
					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.	IN.	
B7	B1	12	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	5	0.5	2.8	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	10	1.9			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	0	0			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	4	0.4			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	0	0			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	0	0			
							-	-	-	-	-			
							-	-	-	-	-			
							B7	B1	12	3	3.068			
SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	0	0										
SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	3	0.66										
LOOP LEAD-IN	IMSA 50-2	2/C # 14	0	0										
-	-	-	-	-										
WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34										
-	-	-	-	-										
-	-	-	-	-										
-	-	-	-	-										
POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173										
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					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.		IN.
SP1	B1	6	3	3.068	7.38	1.85	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	1	0.1	1.433	YES	3
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	2	0.38			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	2	0.44			
							-	-	-	-	-			
							-	-	-	-	-			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	2	0.34			
							-	-	-	-	-			
							-	-	-	-	-			
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xUT1	B1	27	2	2.067	3.36	0.84	-	-	-	-	-	-	-	-
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							-	-	-	-	-			
							-	-	-	-	-			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	2	0.2			
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B2	B1	4	2	2.067	3.36	0.84	-	-	-	-	-	-	-	-
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							SIGNALS	IMSA 19-1 OR 20-1	12/C # 14	1	0.41			
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FROM	TO	RUN LENGTH	SIZE/NOMINAL DIAMETER	INSIDE DIAMETER	C	0.25C	CABLE USE	SPECIFICATION OR MATERIAL	NO. OF CONDUCTORS AWG	NO. CABLES OR WIRES*	a	[A]		
					INSIDE AREA	25% INSIDE AREA					CROSS SECTION AREA	COMBINED CROSS SECTION AREA		
		FT.	IN.	IN.	SQ. IN.	SQ. IN.					SQ. IN.	SQ. IN.	IN.	
B1	C1	15	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	6	0.6	2.88	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	12	2.28			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	0	0			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	0	0			
							SIGNALS	IMSA 19-1 OR 20-1	12/C # 14	0	0			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	0	0			
							-	-	-	-	-			
							-	-	-	-	-			
							-	-	-	-	-			
							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	0	0			
							-	-	-	-	-			
							-	-	-	-	-			
B1	C1	15	4	4.026	12.72	3.18	SIGNALS	IMSA 19-1 OR 20-1	2/C # 14	0	0	2.963	YES	4
							SIGNALS	IMSA 19-1 OR 20-1	5/C # 14	0	0			
							SIGNALS	IMSA 19-1 OR 20-1	7/C # 14	5	1.1			
							LOOP LEAD-IN	IMSA 50-2	2/C # 14	6	0.6			
							SIGNALS	IMSA 19-1 OR 20-1	12/C # 14	1	0.41			
							WAVETRONIX RADAR	SMARTSENSOR 6 CONDUCTOR	6/C # 20	4	0.68			
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							POWER/LIGHTING	RHH/RHW/USE	1/C # 4	1	0.173			
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