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C

B

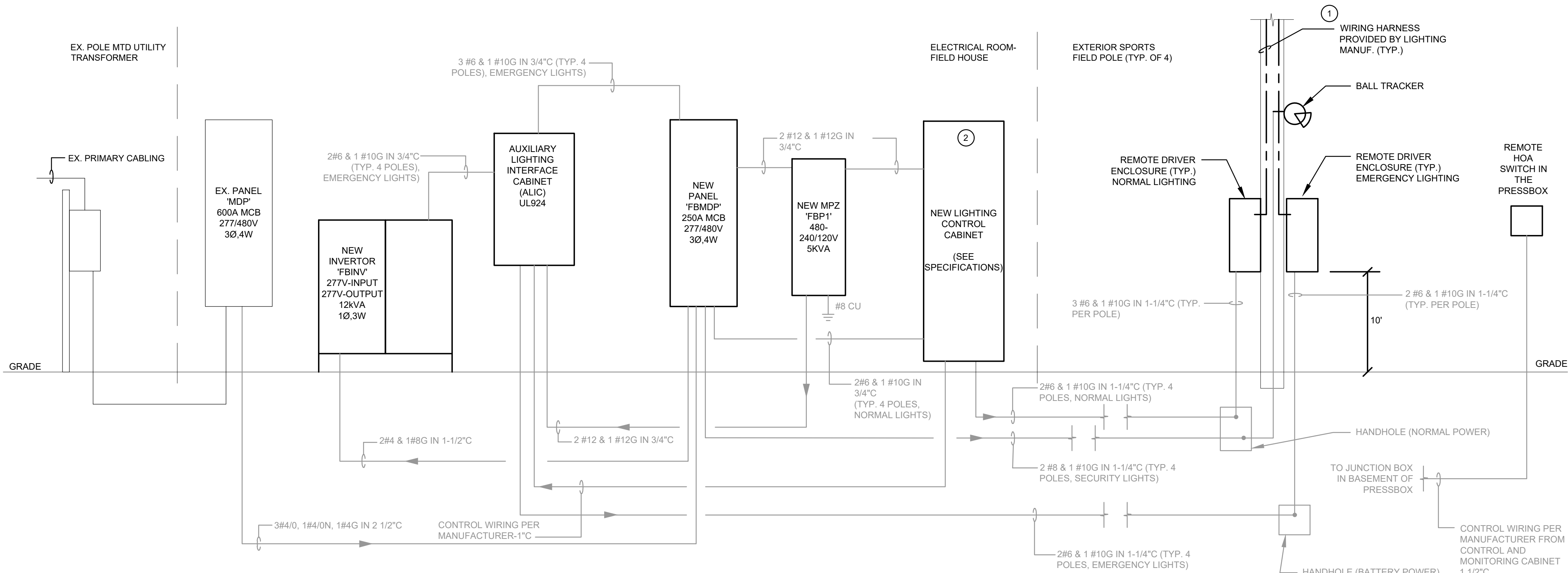
A

GENERAL NOTES:

1. RISER DIAGRAM PROVIDED FOR REFERENCE ONLY. NO WIRE OR CONDUIT BELOW GRADE OR INSIDE THE BUILDING IS PROVIDED IN PRE-PURCHASE CONTRACT.

KEYED NOTES:

1. LIGHTING MANUFACTURER TO PROVIDE AND ROUTE WIRING HARNESS FROM REMOTE DRIVER BOX TO TOP OF POLE FOR NEW LIGHT FIXTURES.
2. PROVIDE CONTACTOR FOR ALL SPORTFIELD POLE LIGHTS.



1 CARY HIGH SCHOOL FOOTBALL STADIUM LIGHTING - RISER DIAGRAM  
SCALE: NTS

INV LOAD SERVED				CKT	P	CB	VA/PHASE		DESCRIPTION
							A	B	
EMERGENCY LIGHTING - P1				1	1	20	1800		
EMERGENCY LIGHTING - P2				2	1	20	1800		
EMERGENCY LIGHTING - P3				3	1	20	1800		
EMERGENCY LIGHTING - P4				4	1	20	1800		
SPARE				5	1	20	0		
SPARE				6	1	20	0		
VOLTAGE RATING	277	MAIN BREAKER?	YES	TOTAL LOAD (VA)		7731	PANEL DESIGNATION		
# OF PHASES	1	BREAKER RATING		70A	1.25	NOTES:	FBINV		
# OF WIRES	3	BUS RATING		70A	9664	Provide with dead front			
MOUNTING?	FLOOR	NEUTRAL RATING		100%	35				
SE RATED?	NO	MINIMUM KAIC		22					

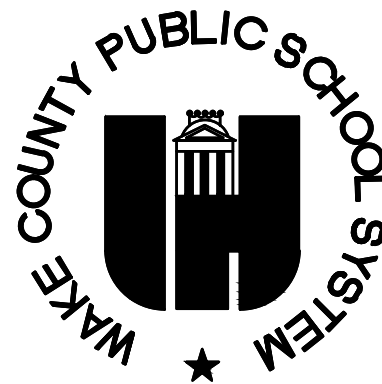
LOAD SERVED		VA/PHASE		CB	P	CKT	CKT	P	CB	VA/PHASE		LOAD SERVED	
		A	B							A	B		
LIGHT CONTROLLER PWR		500		20	1	1	2	1	20	0		SPARE	
ALIC CONTROL POWER			500	20	1	3	4	1	20	0	0	SPARE	
SPARE		0		20	1	5	6	1	20	0		SPARE	
SPARE			0	20	1	7	8	1	20	0	0	SPARE	
SPARE		0		20	1	9	10	1	20	0		SPARE	
VOLTAGE RATING 480-120/240		MAIN BREAKER? YES		TOTAL LOAD (VA)					500	500		PANEL DESIGNATION	FBP1
# OF PHASES 1		BREAKER RATING 30A		DEMAND FACTOR					1.00			NOTES:	
# OF WIRES 3		BUS RATING 30A		DEMAND LOAD (VA)					500	500		5KVA MINI POWER ZONE	
MOUNTING? SURFACE		NEUTRAL RATING 100%		DEMAND AMPS					4	4		PRIMARY XFMR CB IS 15A	
SE RATED? NO		MINIMUM KAIC 18										SEC XFMR CB IS 30A	

LOAD SERVED				VA/PHASE			CB	P	CKT	CKT	P	CB	VA/PHASE			LOAD SERVED
				A	B	C							A	B	C	
POLE P1				6005			40	2	1	2		40	6215			POLE P3
SEE RISER					6005				3	4	2			6215		SEE RISER
POLE P2						6270	40	2	5	6	2	30			0	SPARE
SEE RISER				6270					7	8			0			
SPARE					0		30	2	9	10	2	40		6215		POLE P4
						0			11	12					6215	SEE RISER
SPARE				0			30	2	13	14			0			
					0				15	16	3	30		0		SPARE
INVER "FBINV" SEE RISER						8000	70	1	17	18					0	
PANEL "FBP1" SEE RISER				500			20	2	19	20			0			
					500				21	22	3	30		0		SPARE
SPACE									23	24					0	
SPACE									25	26	1	20				SPARE
SPACE									27	28	1	30				SPARE
SPACE									29	30						SPACE
SPACE									31	32						SPACE
SPACE									33	34						SPACE
SPACE									35	36						SPACE
SPACE									37	38						SPACE
SPACE									39	40						SPACE
SPACE									41	42						SPACE

VOLTAGE RATING		277/480	MAIN BREAKER?		YES	TOTAL LOAD (VA)		18990	18935	20485	PANEL DESIGNATION		FBMDP
# OF PHASES		3	BREAKER RATING		250A	DEMAND FACTOR		1.30			NOTES:		
# OF WIRES		4	BUS RATING		250A	DEMAND LOAD (VA)		24632	24560	26571			
MOUNTING?		SURFACE	NEUTRAL RATING		100%	DEMAND AMPS		89	89	96			
SE RATED?		NO	MINIMUM KAIC		42								

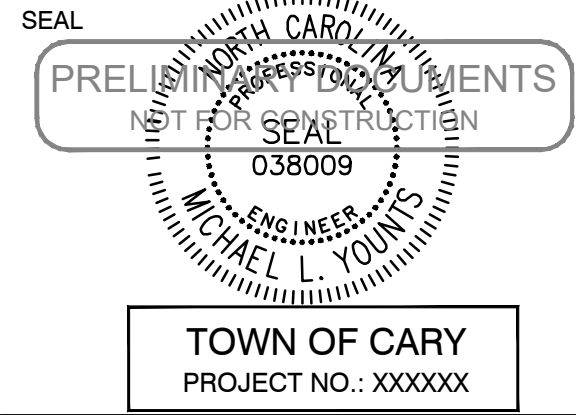


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RALEIGH, NORTH CAROLINA 27610

CARY HIGH SCHOOL  
STADIUM LIGHTING  
UPGRADES  
638 WALNUT STREET  
CARY, NC 27511  
WCPSS PROJECT #####



TOWN OF CARY  
PROJECT NO.: XXXXXX

KEY PLAN

No.	DATE	BY	Description
REVISIONS			

DRAWN BY: MEH  
DESIGNED BY: JGW  
CHECKED BY: MLY  
DATE: NOVEMBER 10, 2023

ELECTRICAL  
RISER DIAGRAM  
AND PANEL  
SCHEDULES

PROJECT NO. 50163001

E-300

SHEET NO.