

SPORTS LIGHTING

Lighting Solutions

Client:
**Ed Columbo
Reflex Lighting**

Project Name:

Project #:	Draw
2101485r1 B.AGI	
Date:	1 / 24 / 2023
Scale:	1" = 40'

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Lum. Lumen	LIF	Description
LS-2	8	LS-2	SINGLE	90985	0.950	EPH-08-0440L-57-70-28-BEG
LS-3	16	LS-3	SINGLE	89640	0.950	EPH-08-0440L-57-70-38-BEG
LS-5	4	LS-5	SINGLE	90904	0.950	EPH-08-0440L-57-70-58-BEG

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Grid Z	
FIELD @ 3' ABOVE GRADE	Illuminance	Fc	37.80	65.8	19.3	1.96	3.41	3	
Spill Light @ Grade	Illuminance	Fc	0.89	6.1	0.2	4.45	30.50	0	
INFIELD 1	Illuminance	Fc	51.38	65.8	35.7	1.44	1.84		
OUTFIELD 1	Illuminance	Fc	33.04	44.7	19.3	1.71	2.32		

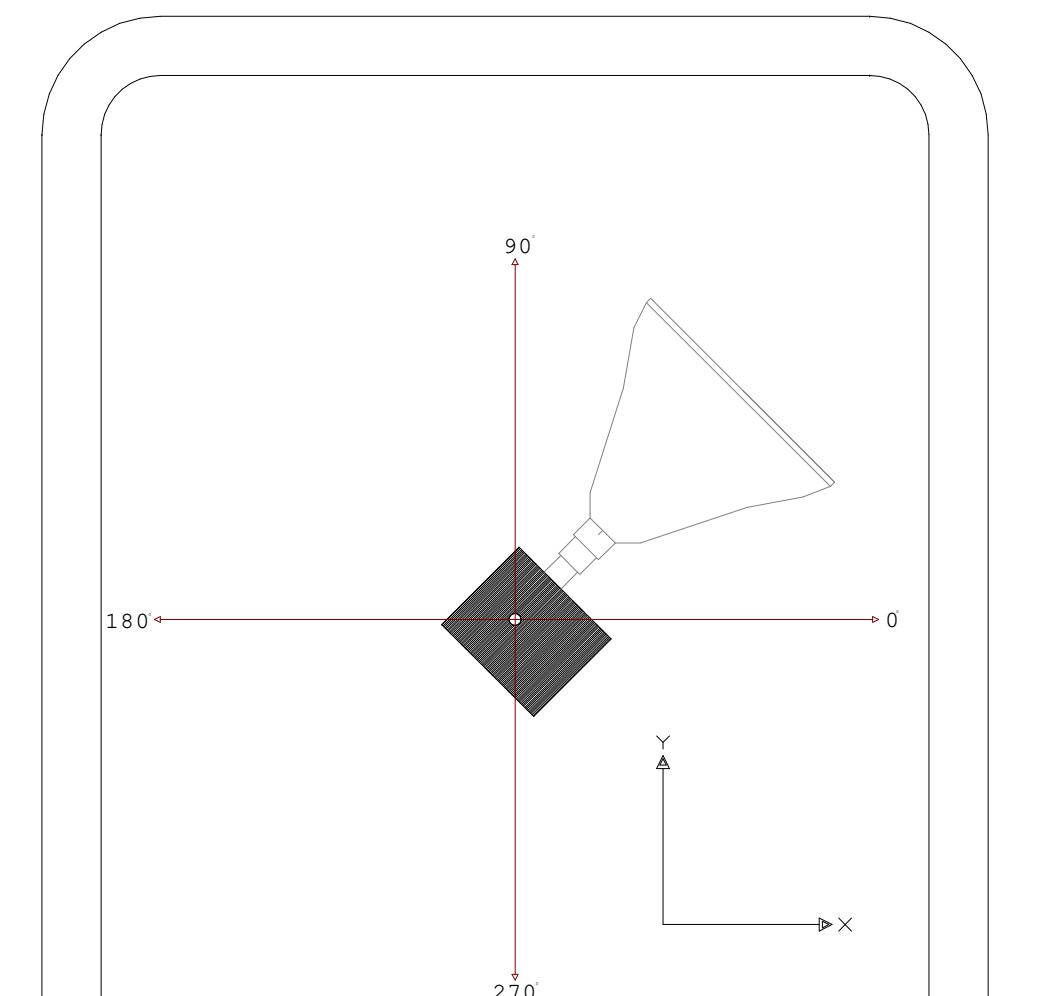
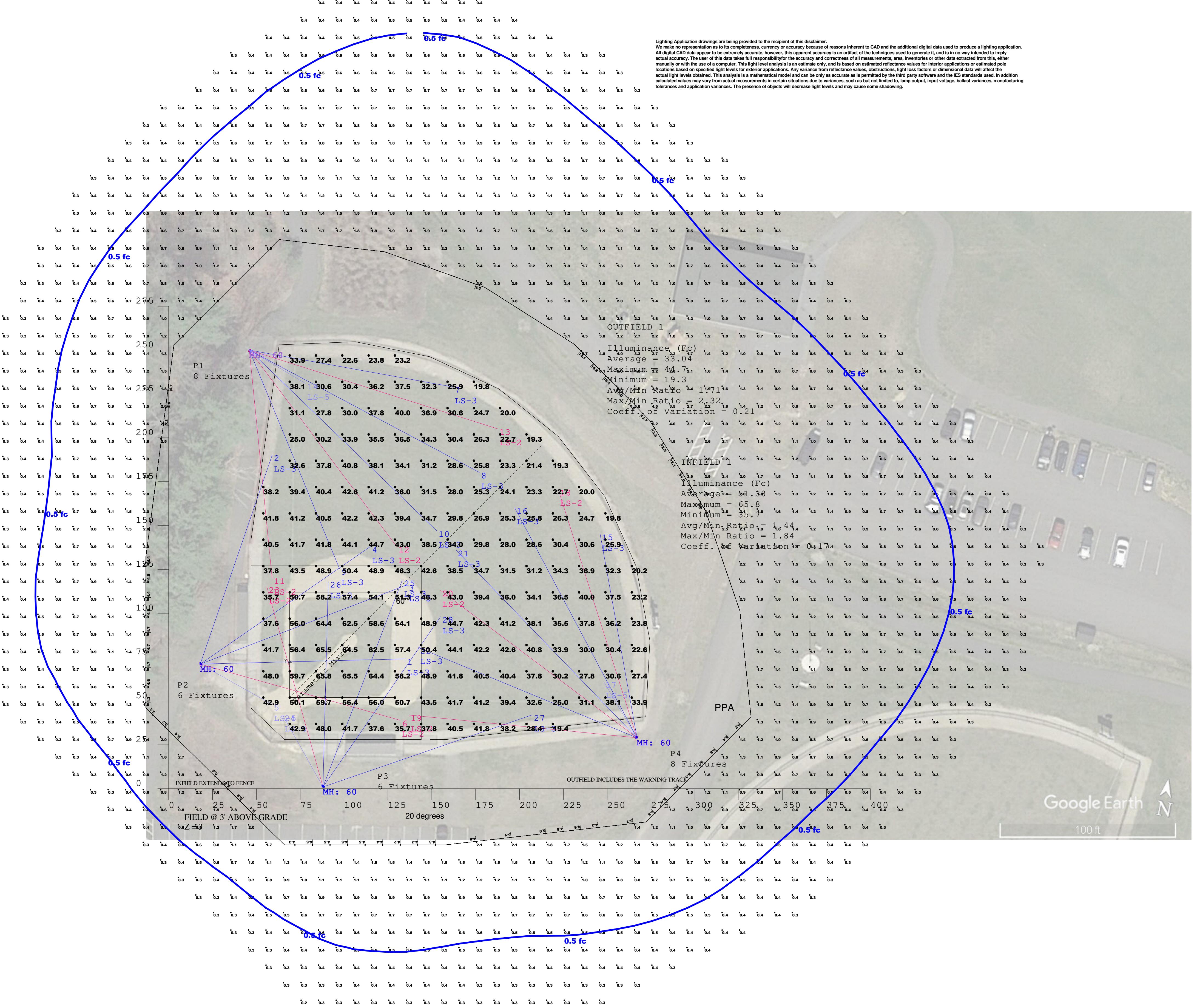
SOFTBALL IES RP-6-15
*DEFINED INFELD AREA IS EXTENDED TO INCLUDE THE SPACE FROM THE BASELINE TO THE FENCE

MINIMUM POLE HEIGHTS (RULE OF THUMB)

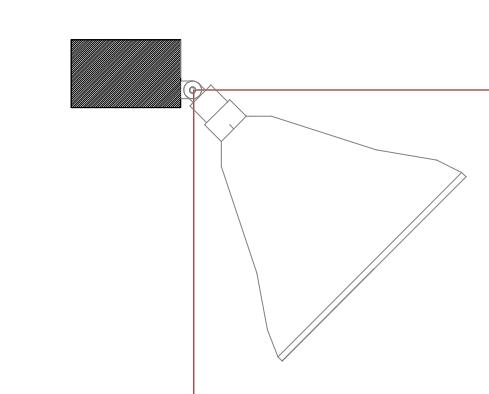
A POLES - BASELINE@9' + SETBACK/2
B POLES - DISTANCE STRAIGHT TO DIAGONAL/3
C POLES - LONGEST AIMING VECTOR/2

*THE MINIMUM RECOMMENDED MOUNTING HEIGHT FOR REGULATION BASEBALL IS NO LESS THAN 70'

PPA - IF YOU HAVE AN EXTENDED INFELD OR SIDELINE THE PPA AVERAGE SHOULD BE SIMILAR TO THE OUTFIELD



ORIENTATION OF FLOOD



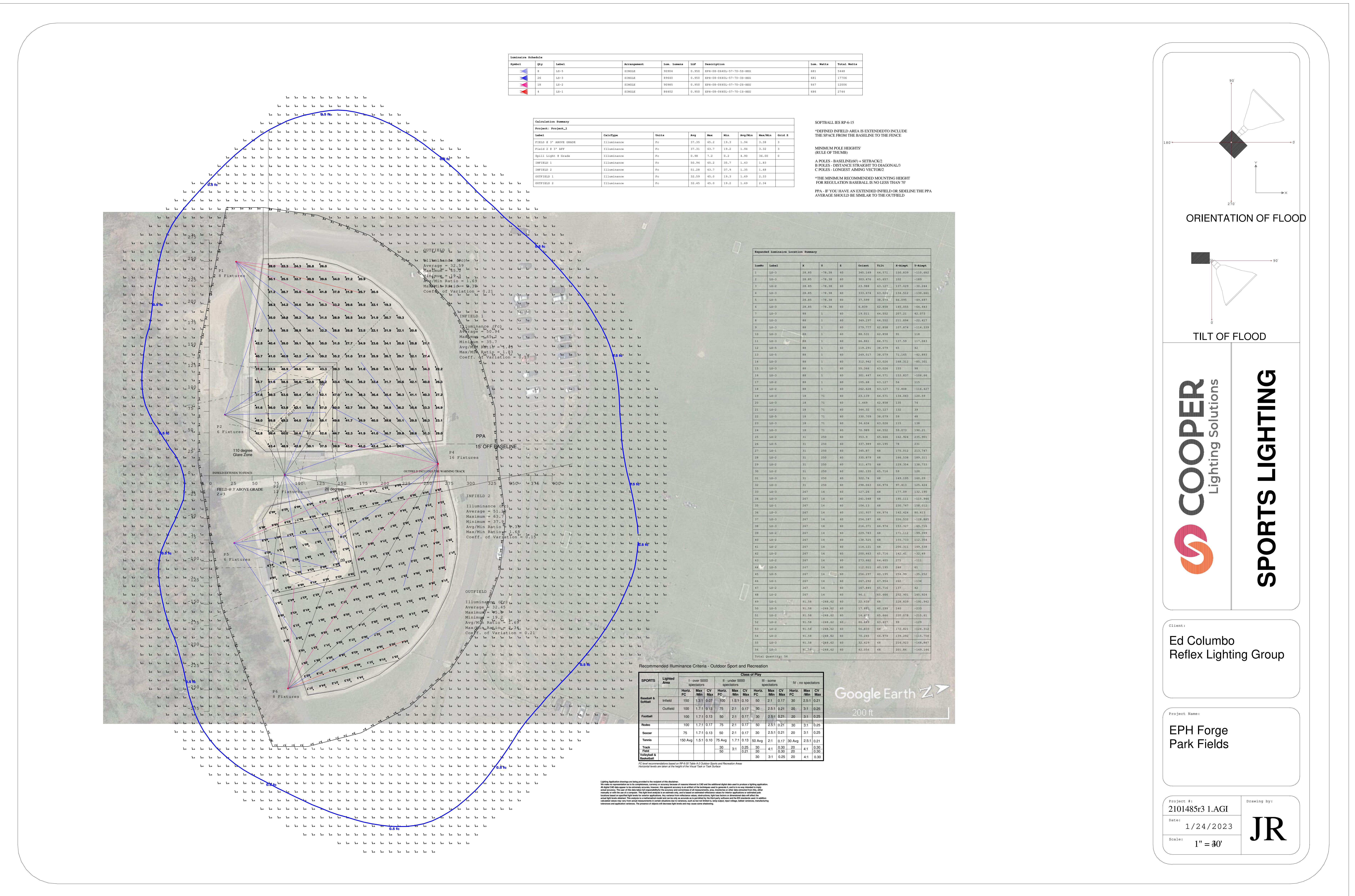
TILT OF FLOOD

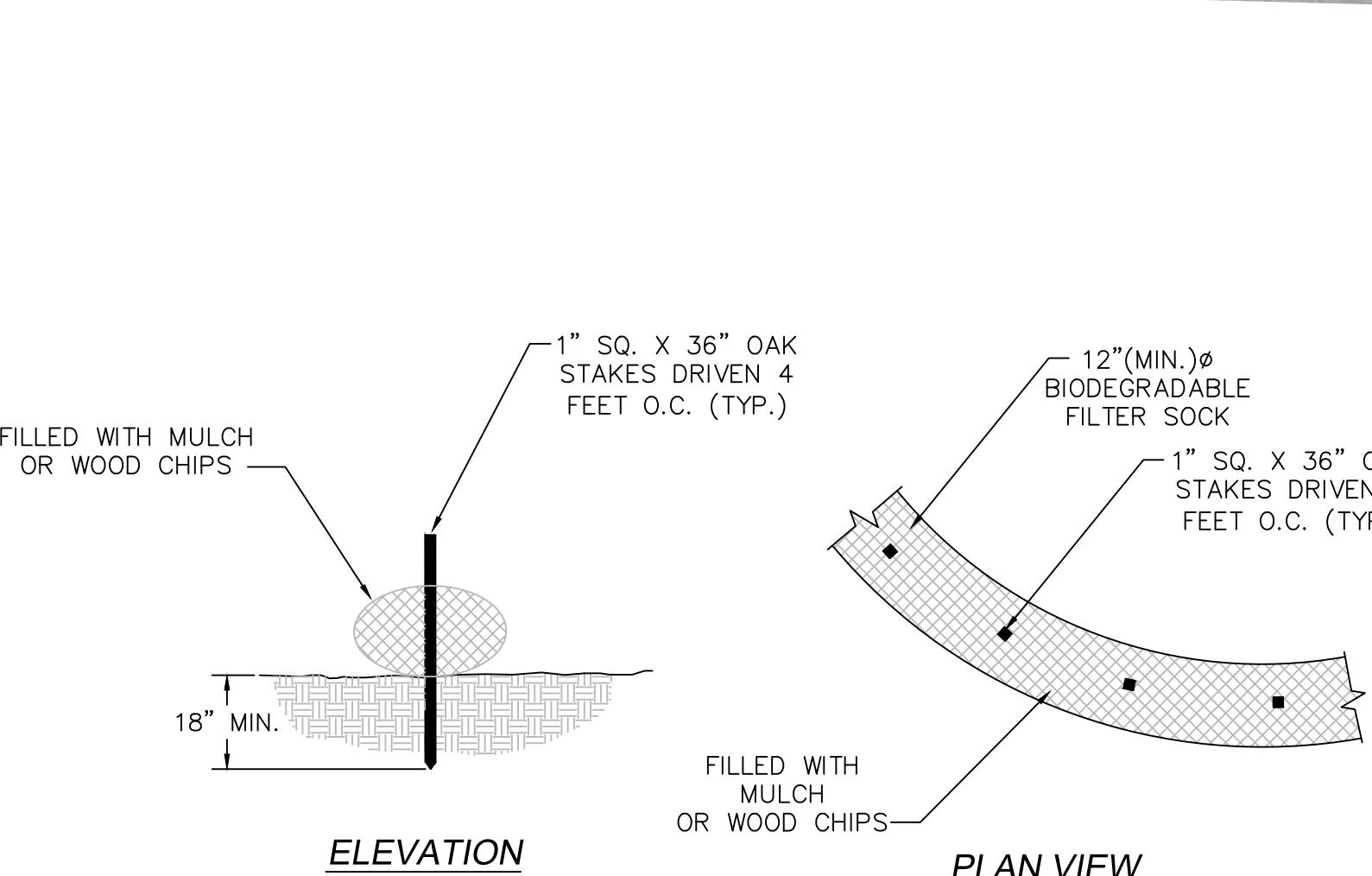
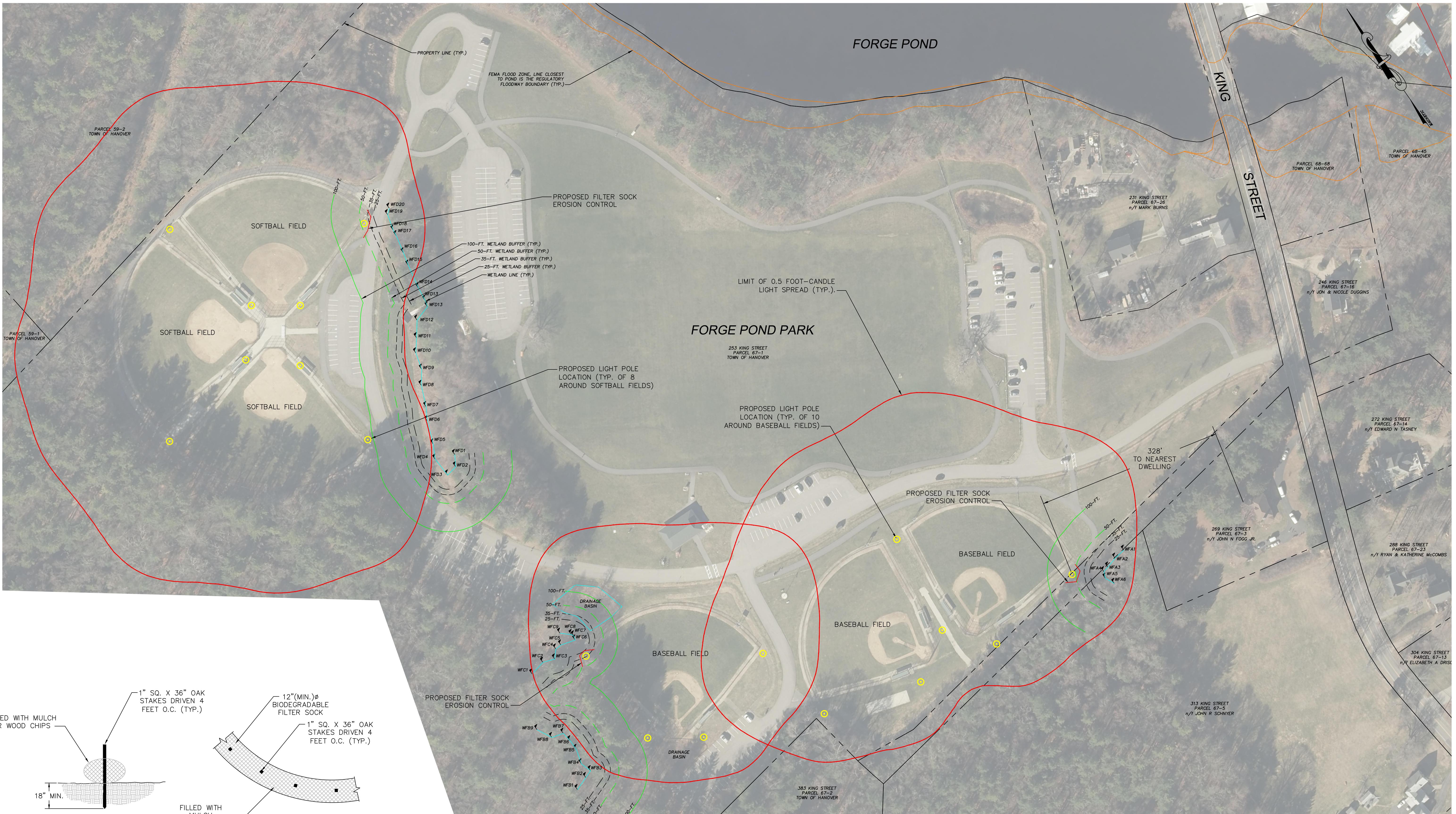
Expanded Luminaire Location Summary								
LumNo	Label	X	Y	Z	Orient	Tilt	X-Azimp	Y-Azimp
1	LS-3	18	73	60	1,469	62,858	135	74
2	LS-3	18	73	60	70,989	64,552	59,073	190,21
3	LS-3	18	73	60	20,973	64,571	135,834	116,169
4	LS-3	18	73	60	34,634	63,026	115	138
5	LS-5	18	73	60	330,709	38,079	59	48
6	LS-2	18	73	60	344,32	63,127	132	39
7	LS-3	46	250	60	349,739	63,025	162	229
8	LS-3	46	250	60	331,998	68	177,12	180,276
9	LS-3	46	250	60	292,426	66,001	97,413	125,424
10	LS-3	46	250	60	316,042	68	152,901	146,918
11	LS-2	46	250	60	275,711	65,333	59	120
12	LS-2	46	250	60	306,87	66,8	129,995	138,008
13	LS-2	46	250	60	342,399	68	187,553	205,094
14	LS-5	46	250	60	329,3	31,81	78	231
15	LS-3	267	29	60	100,261	63,025	246	145
16	LS-3	267	29	60	118,022	68	197,276	160,12
17	LS-5	267	29	60	120,7	31,81	248	41
18	LS-2	267	29	60	107,401	68	222,094	170,553
19	LS-2	267	29	60	174,289	65,333	137	42
20	LS-2	267	29	60	143,13	66,8	155,008	112,995
21	LS-3	267	29	60	133,958	68	163,918	135,901
22	LS-3	267	29	60	157,574	66,001	142,424	80,413
23	LS-2	88	1	60	105,68	63,127	56	115
24	LS-5	88	1	60	119,291	38,079	65	42
25	LS-3	88	1	60	69,027	64,571	133,169	118,834
26	LS-3	88	1	60	88,531	62,858	91	118
27	LS-3	88	1	60	13,011	64,552	207,21	42,073
28	LS-3	88	1	60	55,166	63,026	155	98

Total Quantity: 28

COOPER Lighting Solutions


SPORTS LIGHTING





- NOTES:**
1. FILTER SOCK SHALL BE PLACED PRIOR TO START OF WORK.
 2. OAK STAKES SHALL BE DRIVEN AT LEAST 18" MIN. INTO NATIVE SOIL.
 3. FILTER SOCK SHALL BE PLACED AT THE LOCATIONS SHOWN BEFORE ANY EXCAVATION OR EARTH MOVING OPERATIONS.

FILTER SOCK DETAIL

NOT TO SCALE

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REVISIONS		
NO.	ITEM	DATE
1.	ISSUED FOR PERMITS	2/9/23

AMORY ENGINEERS, P.C.
CIVIL
No. A1489
PATRICK G. BRENNAN
FEBRUARY 9, 2023

PGB ENGINEERING, LLC		
MARSHFIELD, MASSACHUSETTS		
DRAWN BY: PGB	FILE NAME: AS SHOWN	SCALE: AS SHOWN
DESIGNED BY: PGB	JOB NO.: 23-127	DWG. NO.: **
CHECKED BY: PGB	DATE: 2/9/23	CONTRACT: **

DEPARTMENT OF PUBLIC WORKS HANOVER, MASSACHUSETTS	CIVIL
PROPOSED SPORTS FIELD LIGHTING AT FORGE POND PARK	SHEET 1 OF 1