

*Town of Weymouth
Massachusetts*

Robert L. Hedlund
Mayor
75 Middle Street
Weymouth, MA 02189



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2023 MAY 11 AM 10:21

RECEIVED
TOWN OF WEYMOUTH
TOWN CLERK'S OFFICE

MEMORANDUM

23 090

TO: TOWN COUNCIL
FROM: ROBERT L. HEDLUND, MAYOR *Robert Hedlund*
RE: FREE CASH FOR RILEY FIELD PICKLEBALL COURTS
DATE: MAY 11, 2023

I submit the following measure to Town Council for its consideration and action:

“That the Town of Weymouth transfer the sum of \$320,000.00 from Free Cash into an ‘02’ fund account for the purpose of funding costs associated with constructing four (4) pickleball courts at Riley/Central Field, including fencing, lighting, spectator seating and shade structure.”

This is need #117 on the 2024-2028 Capital Improvement Plan.

This measure requires a legal notice and public hearing.

At the time of this submittal the available amount of Free Cash is \$6,062,744.00

Weymouth
Town Council

2023 MAY 11 AM 10:45

RECEIVED

PROJECT NAME (EDIT)

PROJECT LOCATION (EDIT)

Lighting System

Pole / Fixture Summary

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P4	40'	40'	2	TLC-LED-400	0.80 kW	A
4			8		3.20 kW	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Pickleball	3.2 kW	8

Fixture Type Summary

Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>81,000	>81,000	>81,000	8

Light Level Summary

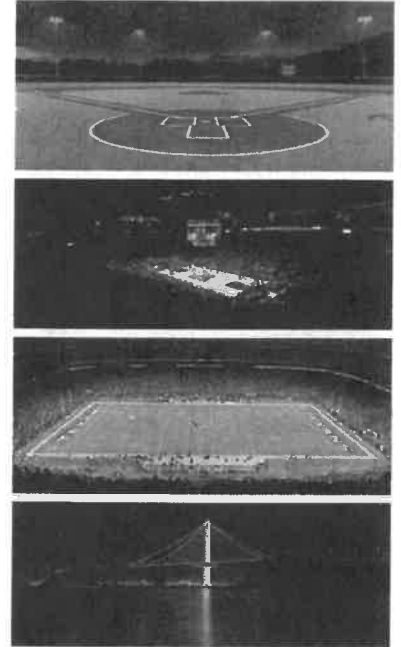
Calculation Grid Summary

Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
150' Spill	Horizontal Illuminance	0	0	0	0.00		A	8
150' Spill	Max Candela Metric	2.86	0	22.1	0.00		A	8
150' Spill	Max Vertical Illuminance Metric	0	0	0	0.00		A	8
Pickleball	Horizontal Illuminance	30.5	24	40	1.69	1.27	A	8

PROJECT NAME

PROJECT LOCATION

From Hometown to Professional



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EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY POLE	TRIP GRID	OTHER GRIDS
4	P1-P4	40'	-	40'	TLC-LED-400	2	2	0
TOTALS						8	8	0

PROJECT NAME

PROJECT LOCATION

GRID SUMMARY

Name: Pickleball
 Size: 120' x 60'
 Spacing: 10.0' x 10.0'
 Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid
Guaranteed Average: 30
 Scan Average: 30.51
 Maximum: 40
 Minimum: 24
 Avg / Min: 1.30
Guaranteed Max / Min: 2
 Max / Min: 1.69
 UG (adjacent pts): 1.47
 CU: 0.62
 No. of Points: 72

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
 Luminaire Output: 46,500 lumens
 No. of Luminaires: 8
 Total Load: 3.2 kW

Luminaire Type	Lumen Maintenance		
	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000

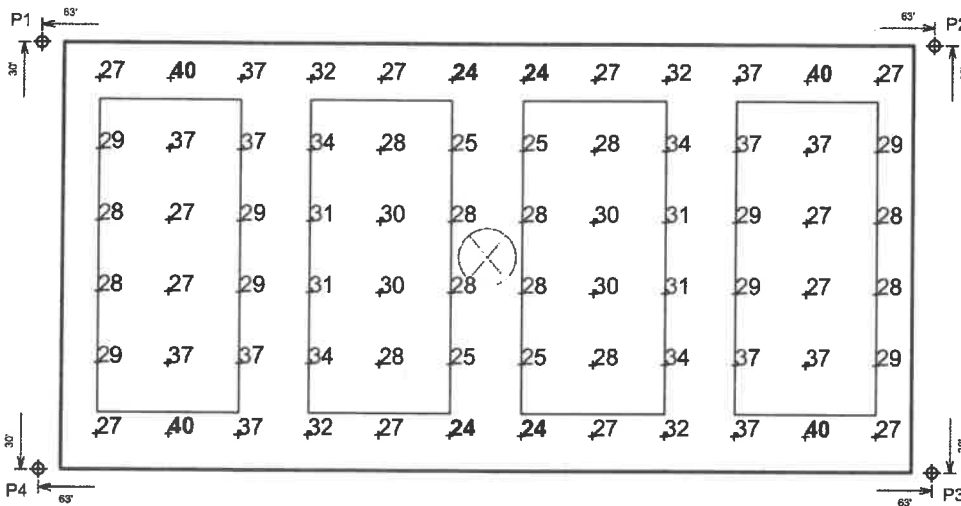
Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE IN FEET 1 : 20



Pole location(s) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗

ENGINEERED DESIGN By: • File #PB3-14-400_A • 06-Jun-19



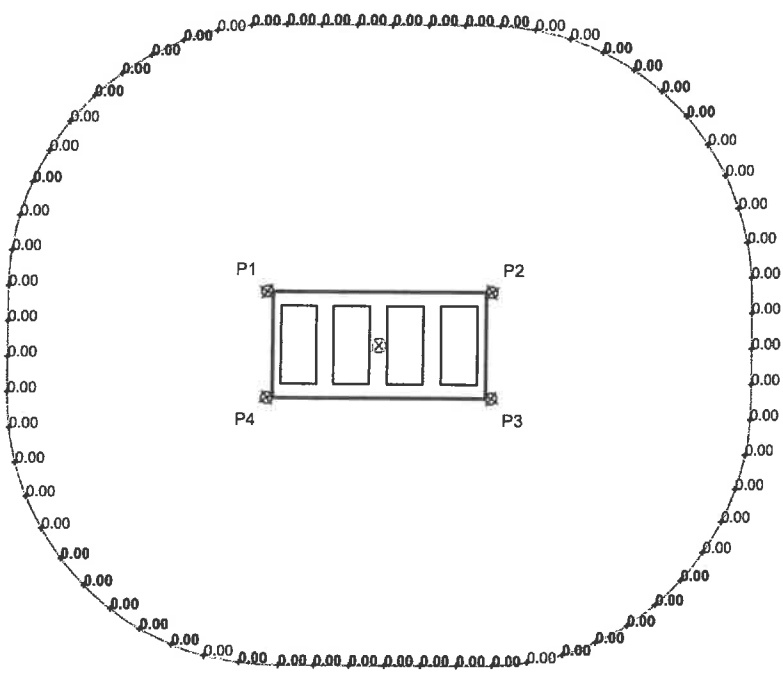
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole		Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	40'	-	40'	TLC-LED-400	2	2	0
4	TOTALS					8	8	0



SCALE IN FEET 1 : 80



Pole location(s) Ⓧ dimensions are relative to 0,0 reference point(s) ⊗

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PROJECT NAME

PROJECT LOCATION

GRID SUMMARY	
Name:	150' Spill
Spacing:	20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
HORIZONTAL FOOTCANDLES			
Entire Grid			
Scan Average:	0.0000		
Maximum:	0.00		
Minimum:	0.00		
No. of Points:	65		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	46,500 lumens		
No. of Luminaires:	8		
Total Load:	3.2 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000
Reported per TM-21-11. See luminaire datasheet for details.			

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



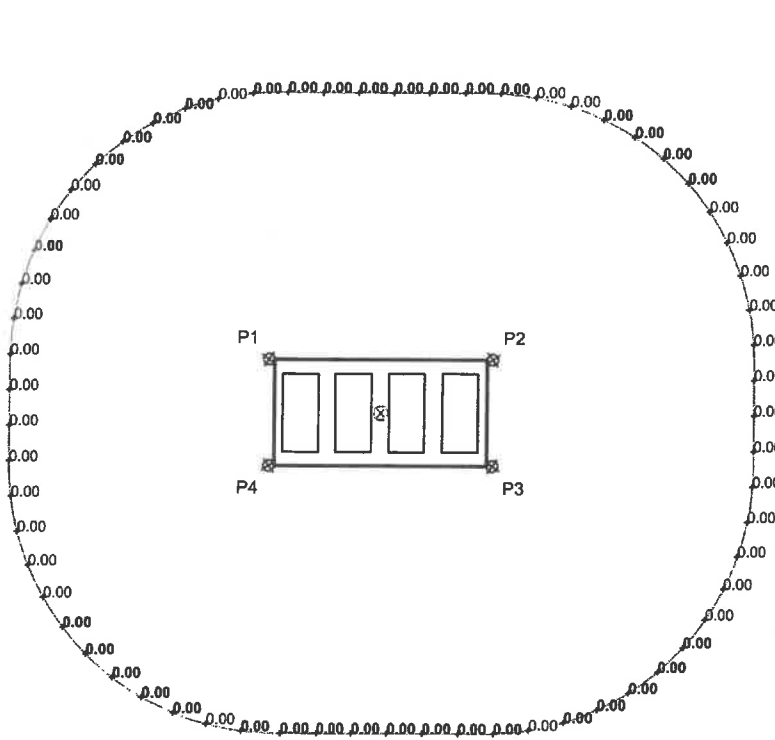
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	40'		40'	TLC-LED-400	2	2	0
TOTALS						8	8	0



SCALE IN FEET 1 : 80



Pole location(s) ⬠ dimensions are relative to 0,0 reference point(s) ⊗

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PROJECT NAME

PROJECT LOCATION

GRID SUMMARY

Name: 150' Spill
Spacing: 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES			
Entire Grid			
Scan Average:	0.0001		
Maximum:	0.00		
Minimum:	0.00		
No. of Points:	65		
LUMINAIRE INFORMATION			
Color / CRI:		5700K - 75 CRI	
Luminaire Output:		46,500 lumens	
No. of Luminaires:		8	
Total Load:		3.2 kW	
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



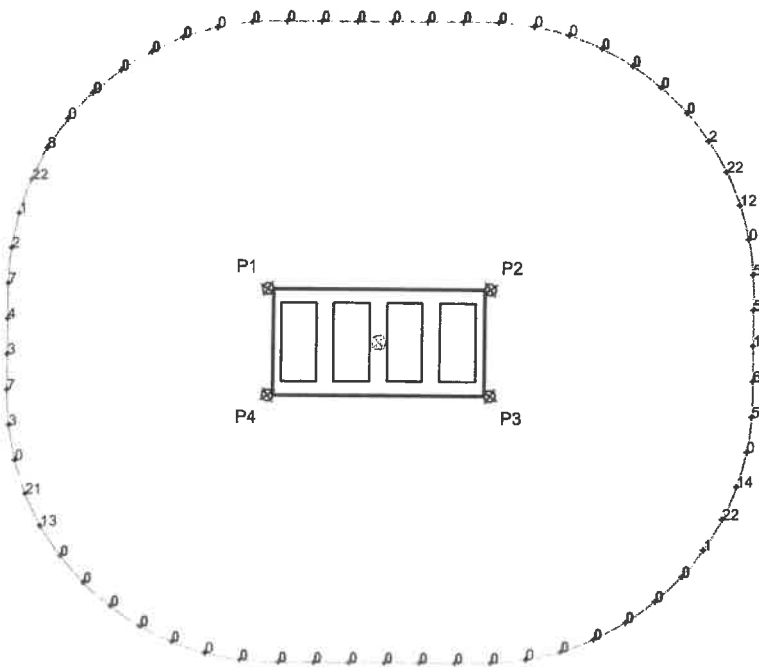
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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	40'	-	40'	TLC-LED-400	2	2	0
TOTALS						8	8	0



Pole location(s) ⬢ dimensions are relative to 0,0 reference point(s) ⊗

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PROJECT NAME

PROJECT LOCATION

GRID SUMMARY	
Name:	150' Spill
Spacing:	20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY			
CANDELA (PER FIXTURE)			
	Entire Grid		
Scan Average:	2.8594		
Maximum:	22.10		
Minimum:	0.00		
No. of Points:	65		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	46,500 lumens		
No. of Luminaires:	8		
Total Load:	3.2 kW		
	Lumen Maintenance:		
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY

PROJECT NAME

PROJECT LOCATION

EQUIPMENT LAYOUT

INCLUDES:

- Pickleball

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

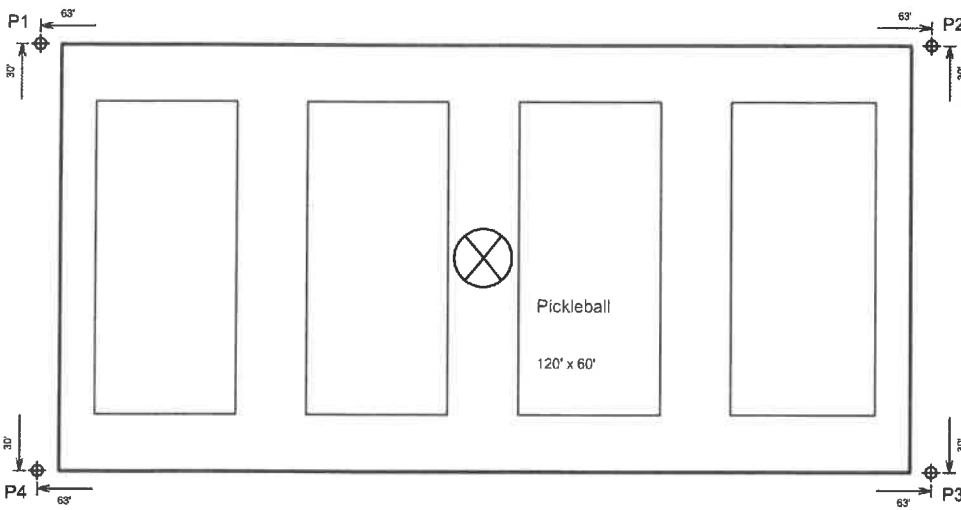
Installation Requirements: Results assume $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole		Luminaires		QTY / POLE
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	
4	P1-P4	40'	-	40'	TLC-LED-400	2
TOTALS						8

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (50 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (Ø)	220 (Ø)	240 (Ø)	277 (Ø)	347 (Ø)	380 (Ø)	480 (Ø)
TLC-LED-400-A	2.3	2.2	2.0	1.7	1.4	1.3	1.0



SCALE IN FEET 1 : 20



Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes

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EQUIPMENT LAYOUT