

Approved Lighting Plan
Zoning Review Only
Planet Fitness Area Only
July 18, 2019 by Liz O'Day

On-Site Lighting
& Survey, LLC

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO MN 55313
PH:763.684.1548
FAX:763.682.9048



VALLEY WEST
CENTER
PLANET FITNESS

10520-10608 FRANCE AVENUE
BLOOMINGTON, MN 55431

RICHARD L.J. KLUZAK
PROFESSIONAL ENGINEER

715 FLORIDA AVENUE SOUTH
SUITE 310
GOLDEN VALLEY, MN 55426

PH:763.270.5499

I hereby certify that this plan, specification, or
report was prepared by me or under my direct
supervision, and that I am a duly Licensed
Professional Engineer under the laws of the
State of Minnesota.

Printed Name: RICHARD L.J. KLUZAK

Signature:

Date: 07/17/2019 License #: 23463

#	DATE	INIT	DESCRIPTION
1	02.13.2018	NM/JCM	ADDED FIXTURES
2	09.05.2018	JLS	INITIAL LED PLAN ADDED
3	07.12.2019	NM/JCM	EXPANDED STAT AREA- PLANET FIT.
4	07.17.2019	NM/JCM	INCLUDE .81 & 1.0 LLF
5			
6			
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8			
9			

PROPOSED
PHOTOMETRIC
PLAN
1.0 LLF

KA180129

01.29.2018

2

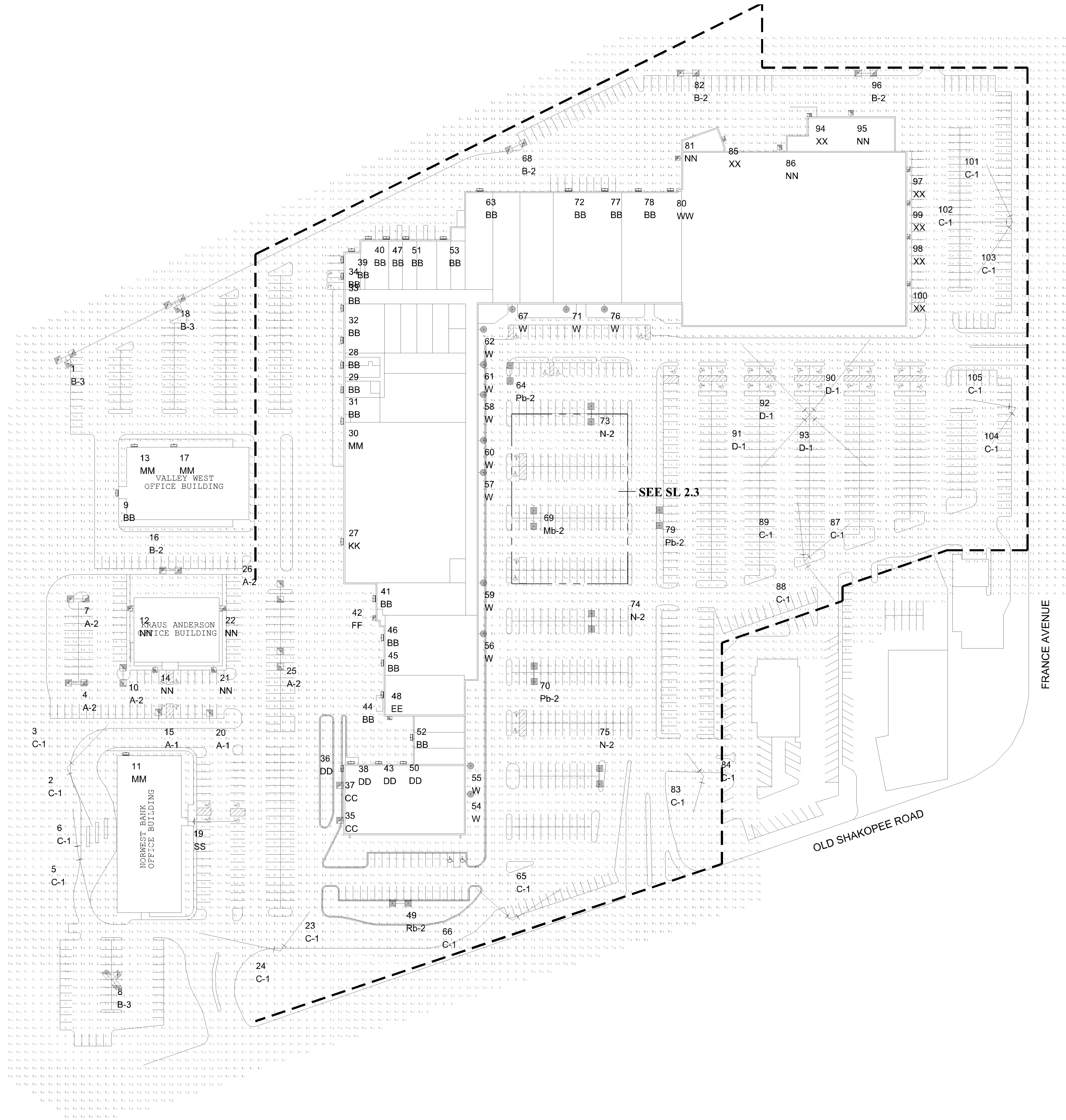
G.CREWS

J.MACKEY

SL2.2

REV #:

4



Luminaire Schedule							
Symbol	Qty	Label	Arrangement	TLL	LLF	Description	BUG Rating
	2	A-1	SINGLE	34000	0.450	Existing Fixt 320W MH 24' Mtg. Ht.	B3-U0-G3
	5	A-2	BACK-BACK	34000	0.450	Existing Fixt 320W MH, 24' Mtg. Ht.	B3-U0-G3
	4	B-2	BACK-BACK	34000	0.500	Existing Fixt 320W MH 28' Mtg. Ht.	B2-U0-G3
	3	B-3	3 @ 90°	34000	0.500	Existing Fixt 320W MH, 28' Mtg. Ht.	B2-U0-G3
	21	BB	SINGLE	N.A.	1.000	Existing Wall Pack LED, 9' To 18' Mtg. Ht.	B1-U0-G1
	18	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht	N.A.
	2	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.	B3-U3-G4
	4	D-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 32' Mtg Ht	N.A.
	4	DD	SINGLE	8500	0.492	Existing Fixt 100W MH Wall Pack, 14' To 18' Mtg Ht	B1-U4-G3
	1	EE	SINGLE	13000	0.450	Existing Wall Pack 150W MH, 13' Mtg. Ht.	B1-U5-G4
	1	FF	SINGLE	13000	0.650	Existing Wall Pack 150W MH, 16' Mtg. Ht.	B1-U5-G4
	1	KK	SINGLE	N.A.	1.000	Existing 26W LED Wall Pack, 11' Mtg. Ht.	B1-U0-G0
	1	Mb-2	BACK-BACK	N.A.	1.000	Existing Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-SWQ	B5-U0-G5
	4	MM	SINGLE	19500	0.500	Existing Fixt 250W MH, 12' To 24' Mtg. Ht.	N.A.
	3	N-2	BACK-BACK	N.A.	1.000	New Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-SWQ	B5-U0-G5
	7	NN	SINGLE	34000	0.420	Existing Fixt 320W MH, 12' To 16' Mtg. Ht.	B2-U0-G3
	3	Pb-2	BACK-BACK	N.A.	1.000	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-SWQ	B5-U0-G5
	1	Rb-2	BACK-BACK	N.A.	1.000	Existing Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/38360 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-06-LED-E1-SWQ	B5-U0-G4
	1	SS	SINGLE	40000	0.650	Existing Flood 400W MH Horz FG, 40' Mtg. Ht.	N.A.
	12	W	SINGLE	17500	0.650	Existing Fixt 175W MH 12' Mtg. Ht.	B4-U0-G2
	1	WW	SINGLE	12800	0.492	Existing Wall Pack 175W MH, 12' Mtg. Ht.	B1-U3-G5
	6	XX	SINGLE	20500	0.350	Existing Wall Pack 250W MH, 18' Mtg. Ht.	B2-U4-G5

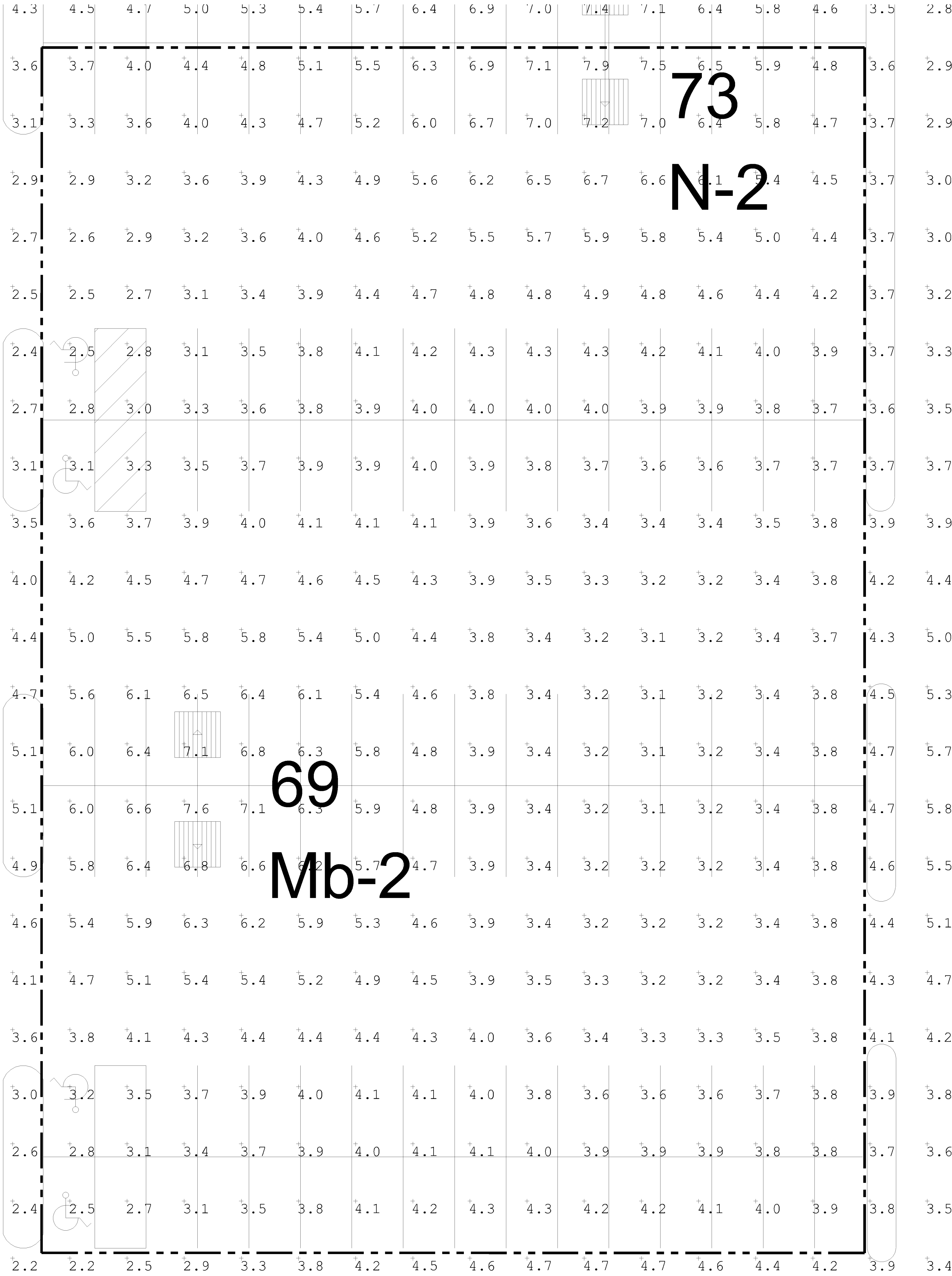
BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS
SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT
MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD
CONDITIONS.

THE LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM
LABORATORY DATA TAKEN UNDER THE CONTROLLED CONDITIONS UTILIZING
CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING
ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY
MANUFACTURED LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE,
TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

FOR ADDITIONAL LIGHTING INFORMATION CONTACT:

On-Site Lighting
& Survey, LLC

PH: 763.684.1548



2 PROPOSED PHOTOMETRIC STAT AREA 1.0 LLF
SCALE: 1"= 10'



Calculation Summary						
Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts
Parking Bouncing-Ton	4.88	7.6	2.5	1.95	3.04	84
Parking Planet Fitness	4.12	7.9	2.5	1.65	3.16	210
Parking Redevelopment	3.40	6.0	2.0	1.70	3.00	88

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

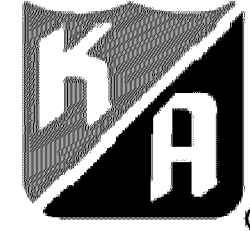
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**KRAUS-ANDERSON**

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ENGINEER INFO

RICHARD L.J. KLUZAK
PROFESSIONAL ENGINEER

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Printed Name: RICHARD L.J. KLUZAK
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Date: 07/17/2019 License #: 23462

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1	02.13.2018	NM/JCM	ADDED FIXTURES
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4	07.17.2019	NM/JCM	INCLUDE .81 & 1.0 LLF
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SHEET DESCRIPTION

**PROPOSED PHOTOMETRIC DETAILS
1.0 LLF**

PROJECT #

KA180129

ISSUE DATE

01.29.2018

DESIGN LEVEL

2

AGI

G.CREWS

CAD

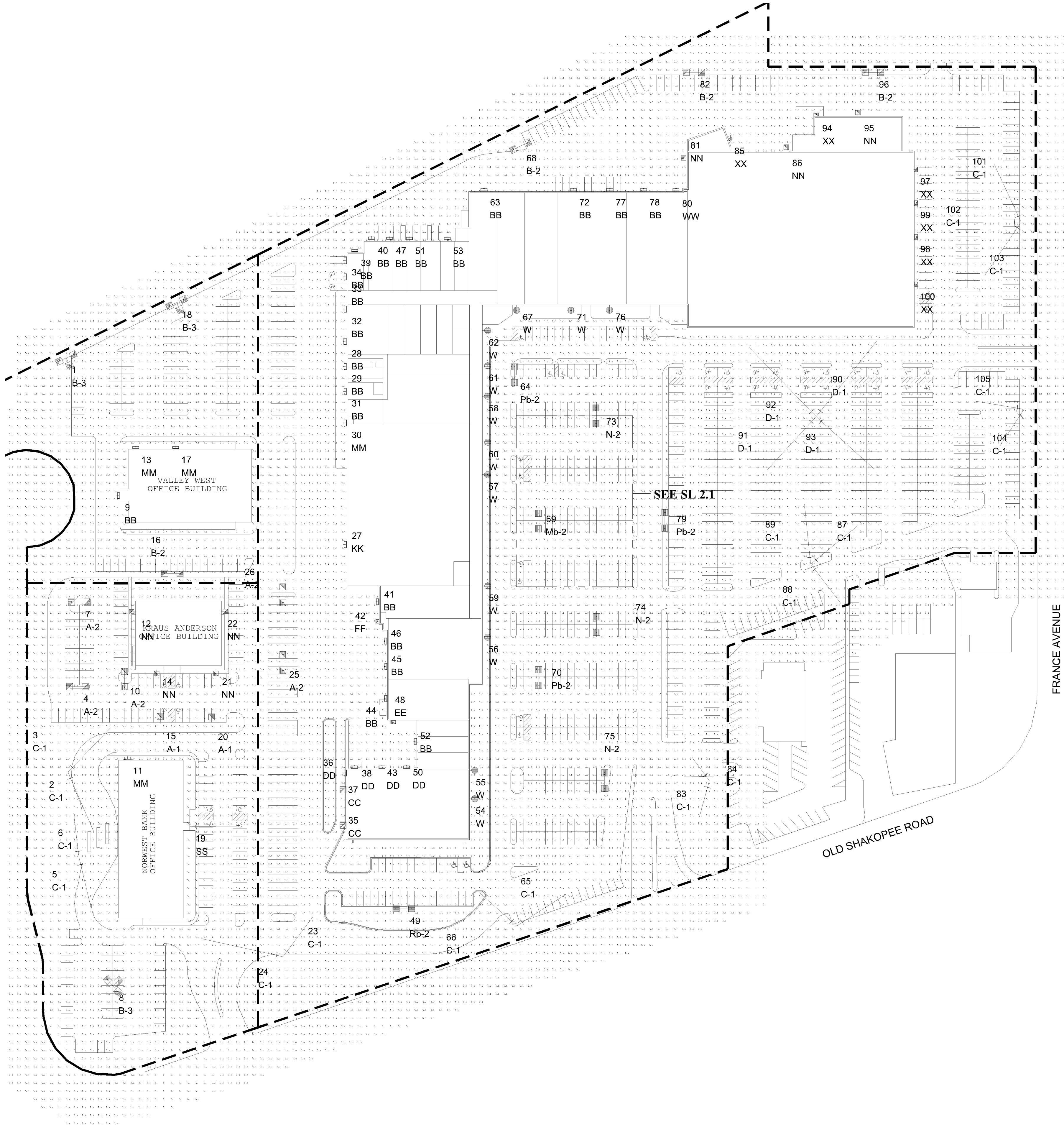
J.MACKEY

SHEET#

SL2.3

REV #

4



1 PROPOSED PHOTOMETRIC PLAN .81 LLF
SCALE: 1"= 70'



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	TLL	LLF	Description
	2	A-1	SINGLE	34000	0.450	Existing Fixt 320W MH 24' Mtg. Ht.
	5	A-2	BACK-BACK	34000	0.450	Existing Fixt 320W MH, 24' Mtg. Ht.
	4	B-2	BACK-BACK	34000	0.500	Existing Fixt 320W MH 28' Mtg. Ht.
	3	B-3	3 @ 90 °	34000	0.500	Existing Fixt 320W MH, 28' Mtg. Ht.
	21	BB	SINGLE	N.A.	0.810	Existing Wall Pack LED, 9' To 18' Mtg. Ht.
	18	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht
	2	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.
	4	D-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 32' Mtg Ht
	4	DD	SINGLE	8500	0.492	Existing Fixt 100W MH Wall Pack, 14' To 16' Mtg Ht
	1	EE	SINGLE	13000	0.450	Existing Wall Pack 150W MH, 13' Mtg. Ht.
	1	FF	SINGLE	13000	0.650	Existing Wall Pack 150W MH, 16' Mtg. Ht.
	1	KK	SINGLE	N.A.	0.810	Existing 28W LED Wall Pack, 11' Mtg. Ht.
	1	Mb-2	BACK-BACK	N.A.	0.810	Existing Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-5WQ
	4	MM	SINGLE	19500	0.500	Existing Fixt 250W MH, 12' To 24' Mtg. Ht.
	3	N-2	BACK-BACK	N.A.	0.810	New Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-5WQ
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**PROPOSED
PHOTOMETRIC
PLAN
.81 LLF**

KA180129

01.29.2018

2

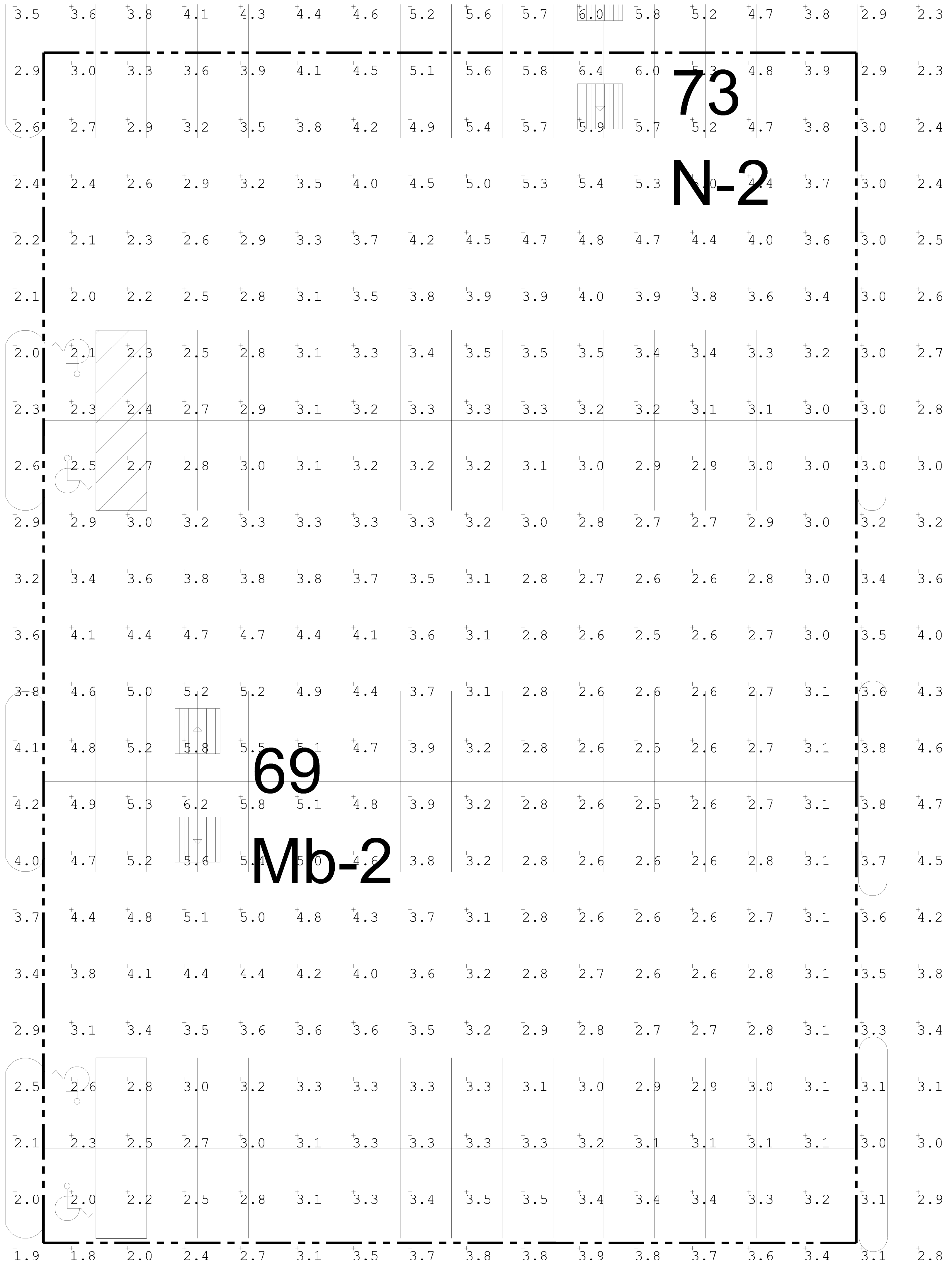
G.CREWS

J.MACKEY

SL2.0

REV #:

4



2 PROPOSED PHOTOMETRIC STAT AREA .81 LLF
SCALE: 1"= 10'



Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts
Parking Bouncing-Ton	3.96	6.2	2.0	1.98	3.10	84
Parking Planet Fitness	3.35	6.4	2.0	1.68	3.20	210
Parking Redevelopment	2.88	4.9	1.8	1.60	2.72	88

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SHEET DESCRIPTION

**PROPOSED PHOTOMETRIC DETAILS
.81 LLF**

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DESIGN LEVEL

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AGI

G.CREWS

CAD

J.MACKEY

SHEET#:	SL2.1	REV#:	4
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