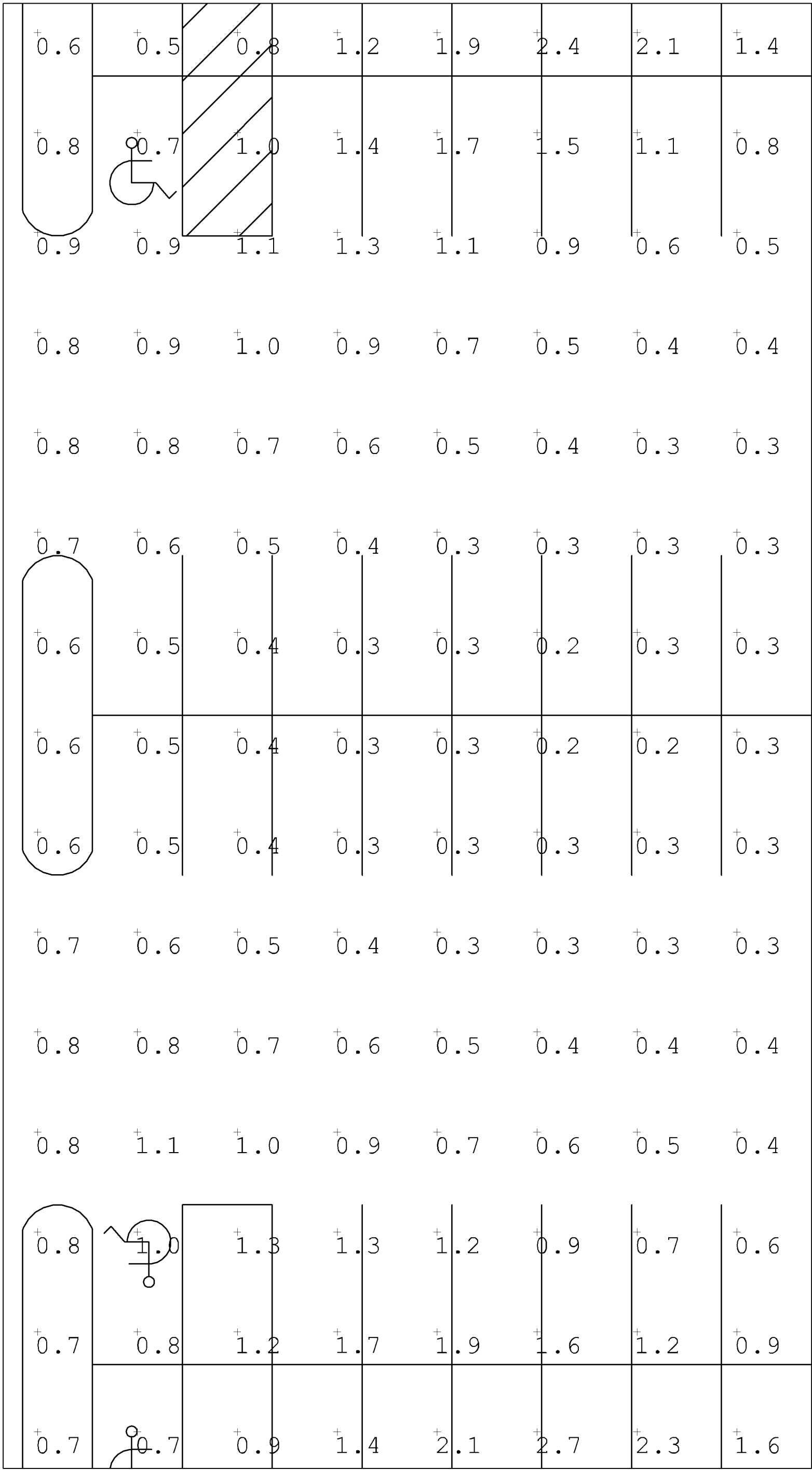


Lighting Plan Approved
Zoning Review Only
September 5, 2018



1 EXISTING PHOTOMETRIC STAT AREA
SCALE: 1"= 10'



Calculation Summary							
Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts	%PtsRange
All Calculation Points	1.05	11.1	0.0	N.A.	N.A.	1018	N.A.
Parking Bouncing-Ton	0.77	2.7	0.2	3.85	13.50	84	N.A.

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 MANUFACTURER'S 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

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

10520-10608 FRANCE AVENUE
BLOOMINGTON, MN 55431

RICHARD L.J. KLUZAK

PROFESSIONAL ENGINEER

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO MN 55313

PH: 763.682.7128
FAX: 763.682.9048

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: 09/05/2018 License #: 23463

#	DATE	INIT	DESCRIPTION
1	02.13.2018	NM/JCM	ADDED FIXTURES
2	09.05.2018	JLS	INITIAL LED PLAN ADDED
3			
4			
5			
6			
7			
8			
9			

EXISTING PHOTOMETRIC SCHEDULES & DETAILS

KA180129

01.29.2018


2

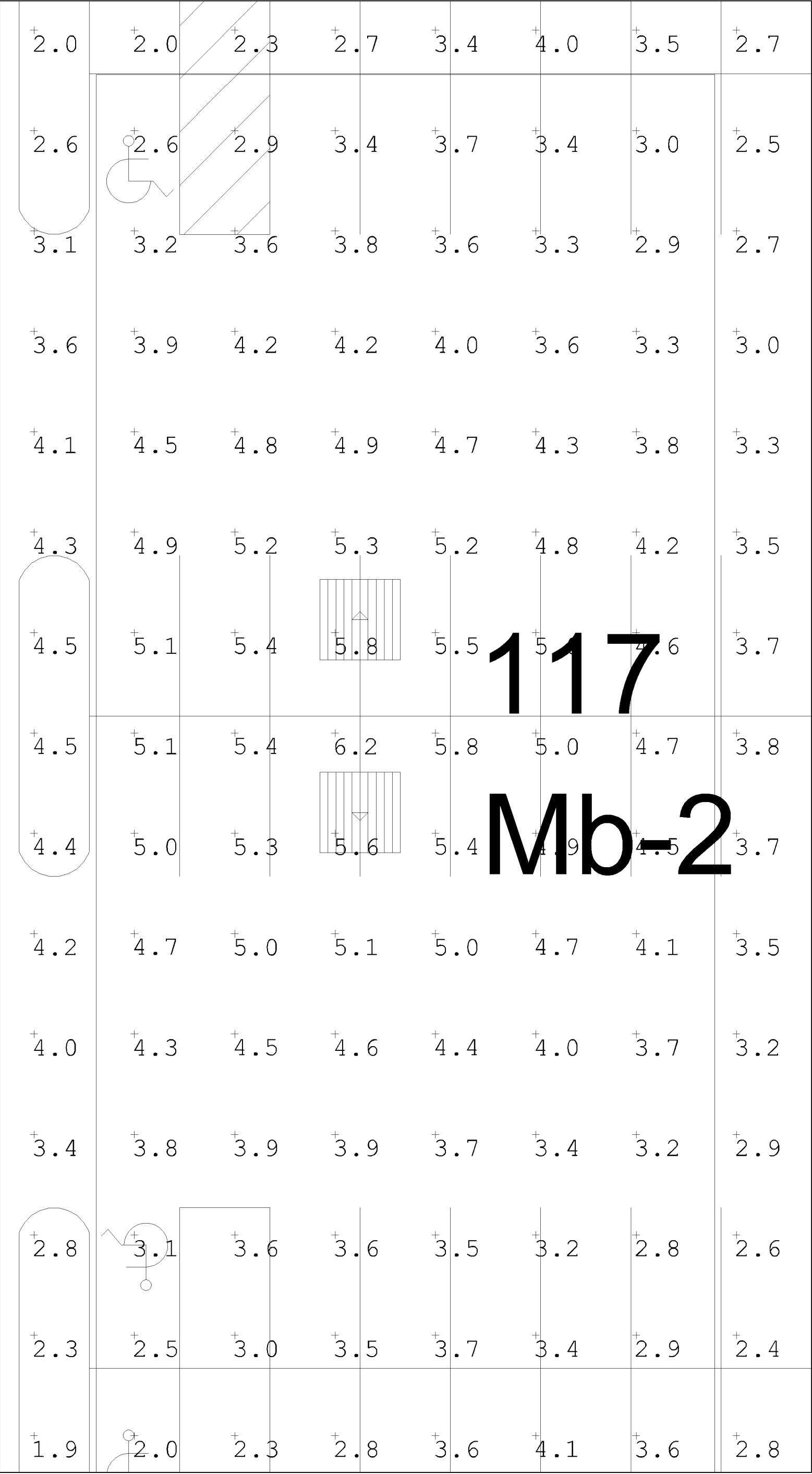
N.MOLENDA

J.MACKEY

SL1.1

2

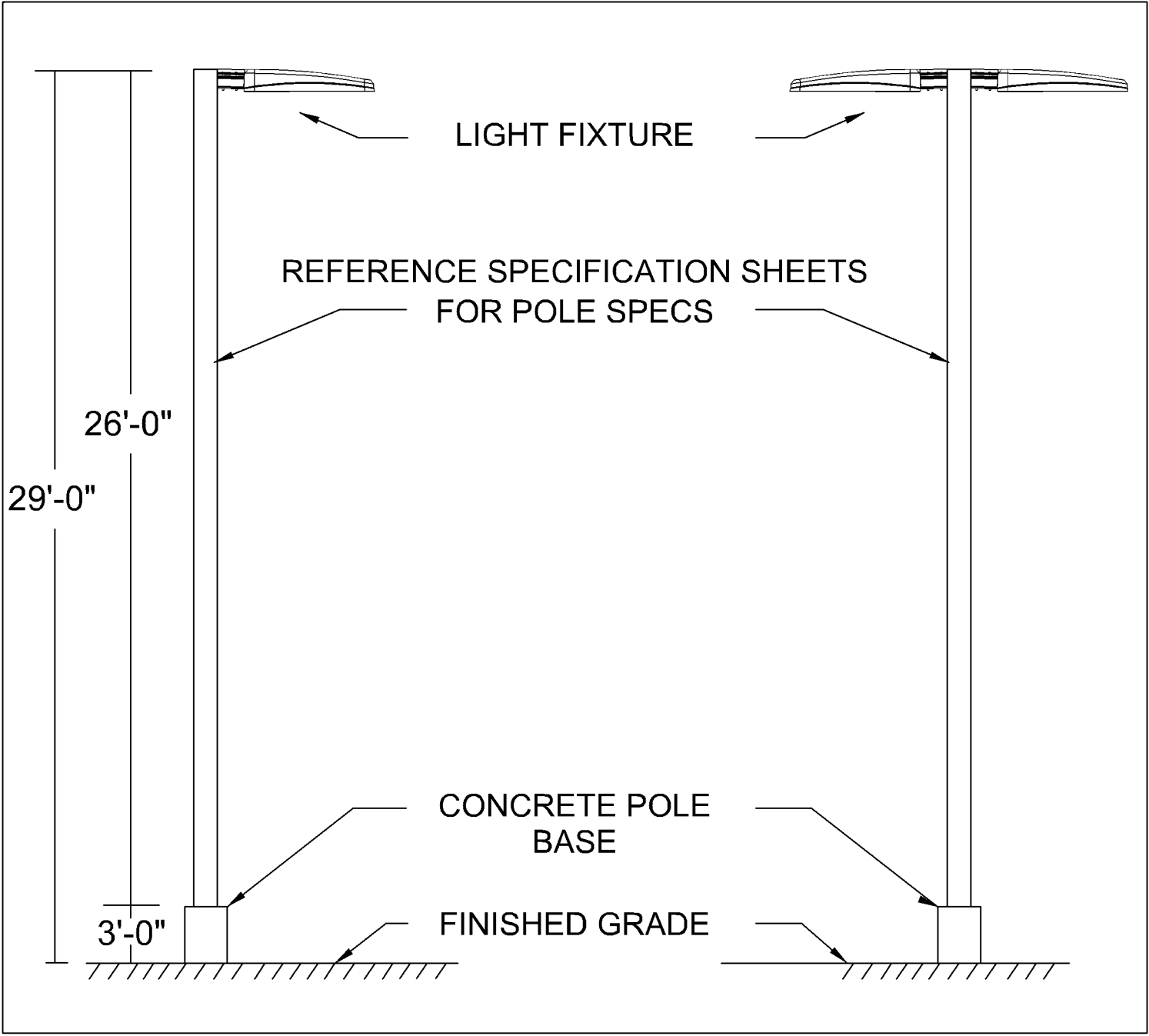
Luminaire Schedule							
Symbol	Qty	Label	Arranged	TLL	LLF	Description	BUG Rating
	1	Mb-2	BACK-BACK	N.A.	0.81	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-5WQ	B5-U0-G5



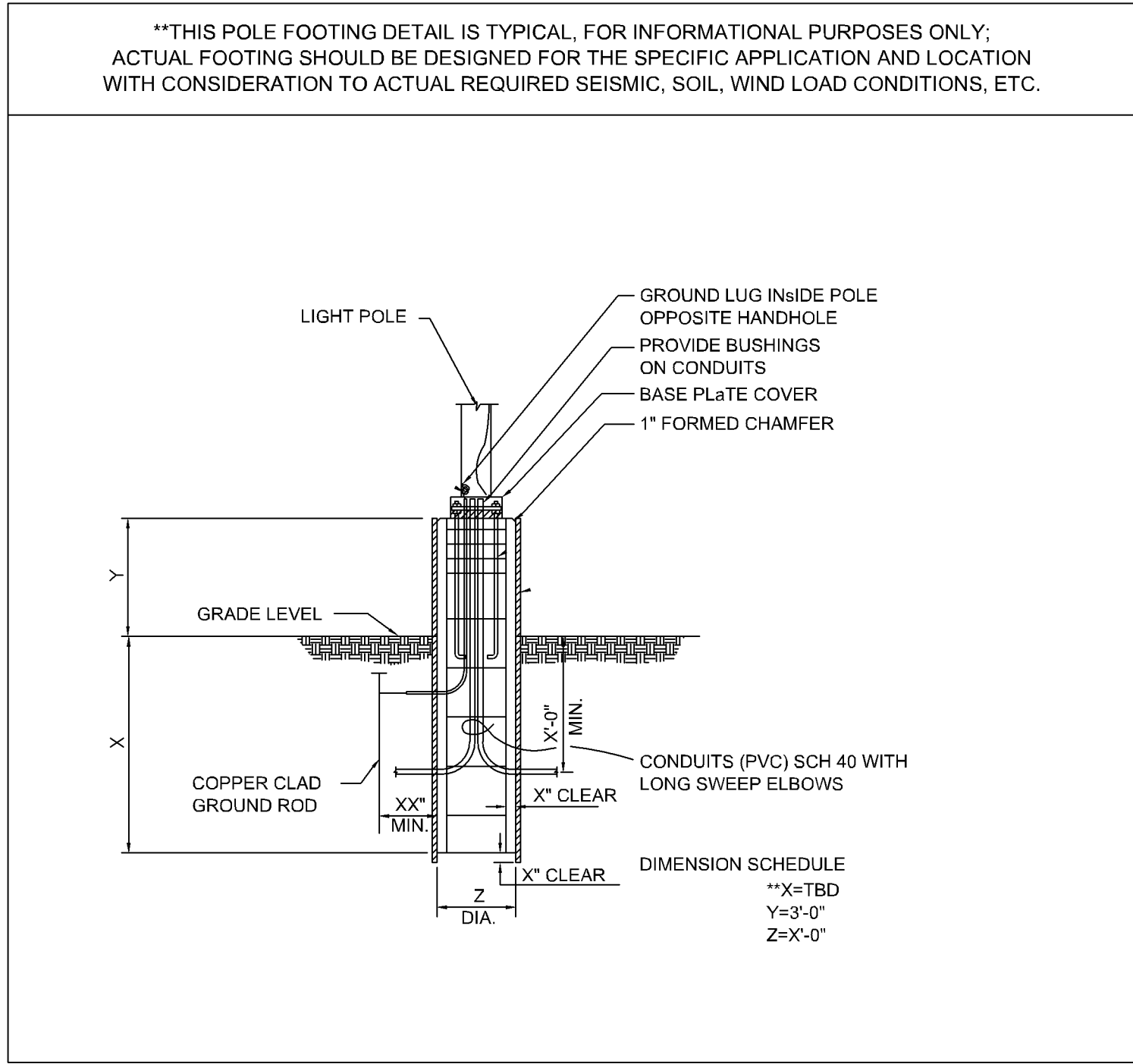
1 LED PHOTOMETRIC STAT AREA
SCALE: 1"= 10'



Calculation Summary							
Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts	%PtsRange
All Calculation Points	1.11	11.1	0.0	N.A.	N.A.	1018	N.A.
Parking Bouncing-Ton	4.13	6.2	2.0	2.07	3.10	84	N.A.



2 POLE DETAIL PARKING LOT (TYPICAL) Mb-2
SCALE: NTS



3 LIGHT POLE BASE DETAIL (TYPICAL)
SCALE: NTS

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 MANUFACTURER'S 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

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

10520-10608 FRANCE AVENUE
BLOOMINGTON, MN 55431

RICHARD L.J. KLUZAK

PROFESSIONAL ENGINEER

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO MN 55313

PH: 763.682.7128
FAX: 763.682.9048

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: 09/05/2018 License #: 23463

#	DATE	INIT	DESCRIPTION
1	02.13.2018	NM/JCM	ADDED FIXTURES
2	09.05.2018	JLS	INITIAL LED PLAN ADDED
3			
4			
5			
6			
7			
8			
9			

LED PHOTOMETRIC SCHEDULES & DETAILS

KA180129

01.29.2018

2

N.MOLENDA

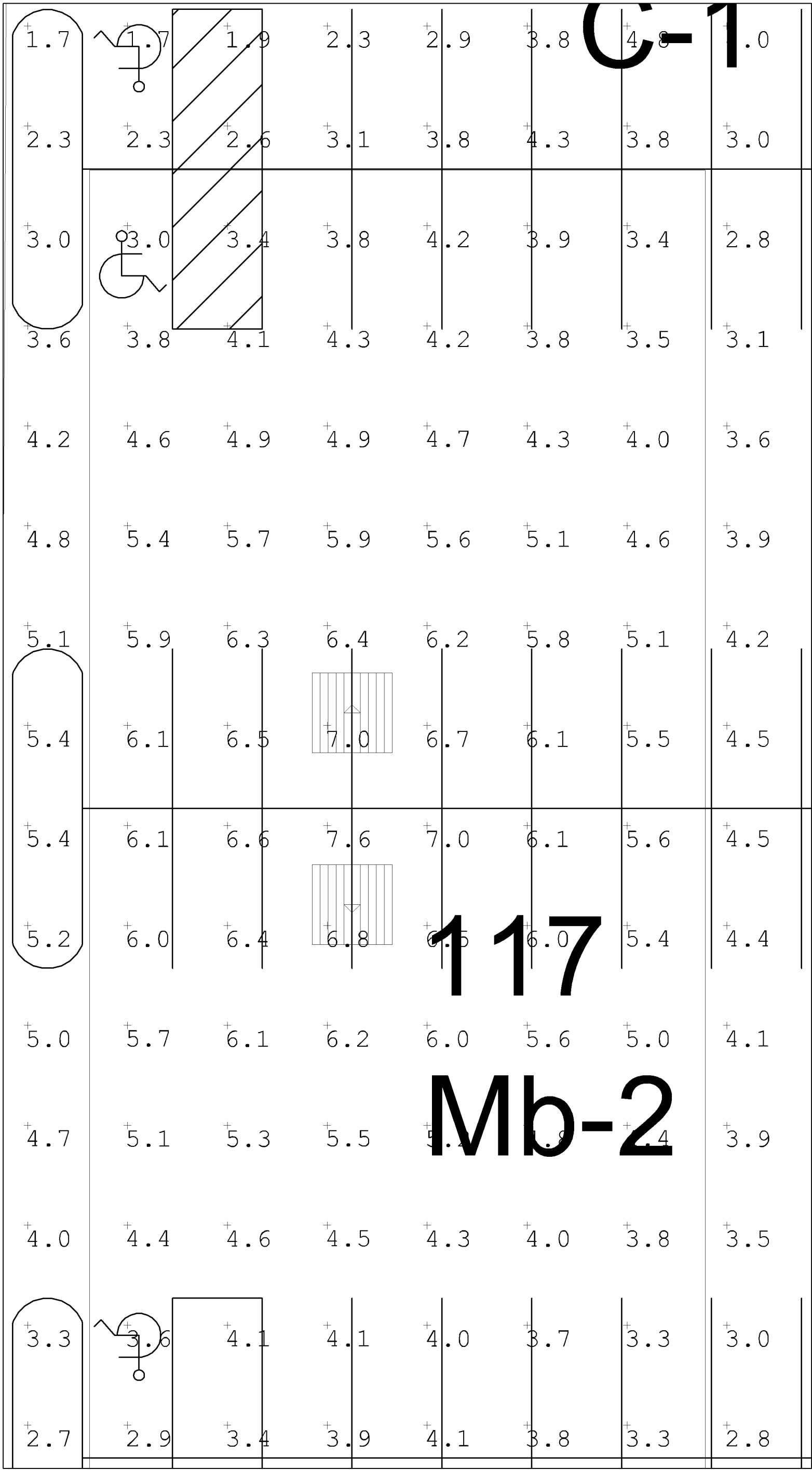
J.MACKEY

SL3.1

2

Luminaire Schedule

Symbol	Qty	Label	Arranged	TLL	LLF	Description	BUG Rating
	1	Mb-2	BACK-BACK	N.A.	0.99	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) EATON_McGraw-Edison_GLEON-AF-07-LED-E1-5WQ	B5-U0-G5



1

LED PHOTOMETRIC STAT AREA

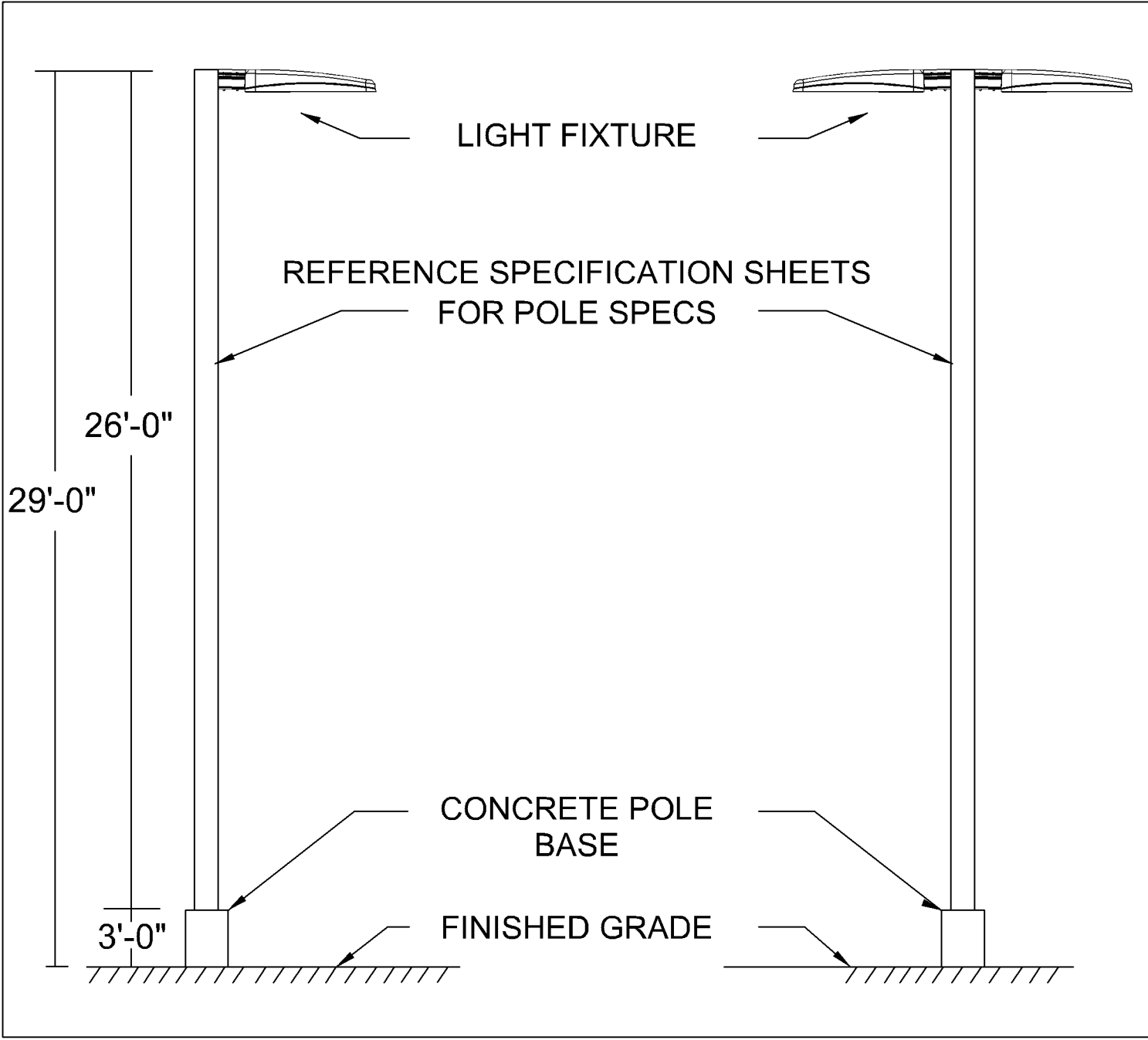
SCALE: 1"= 10'



Calculation Summary

Label	Avg	Max	Min	Avg/Min	Max/Min	# Pts	%PtsRange
All Calculation Points	1.13	11.1	0.0	N.A.	N.A.	1018	N.A.
Parking Bouncing-Ton	4.88	7.6	2.3	2.12	3.30	84	N.A.

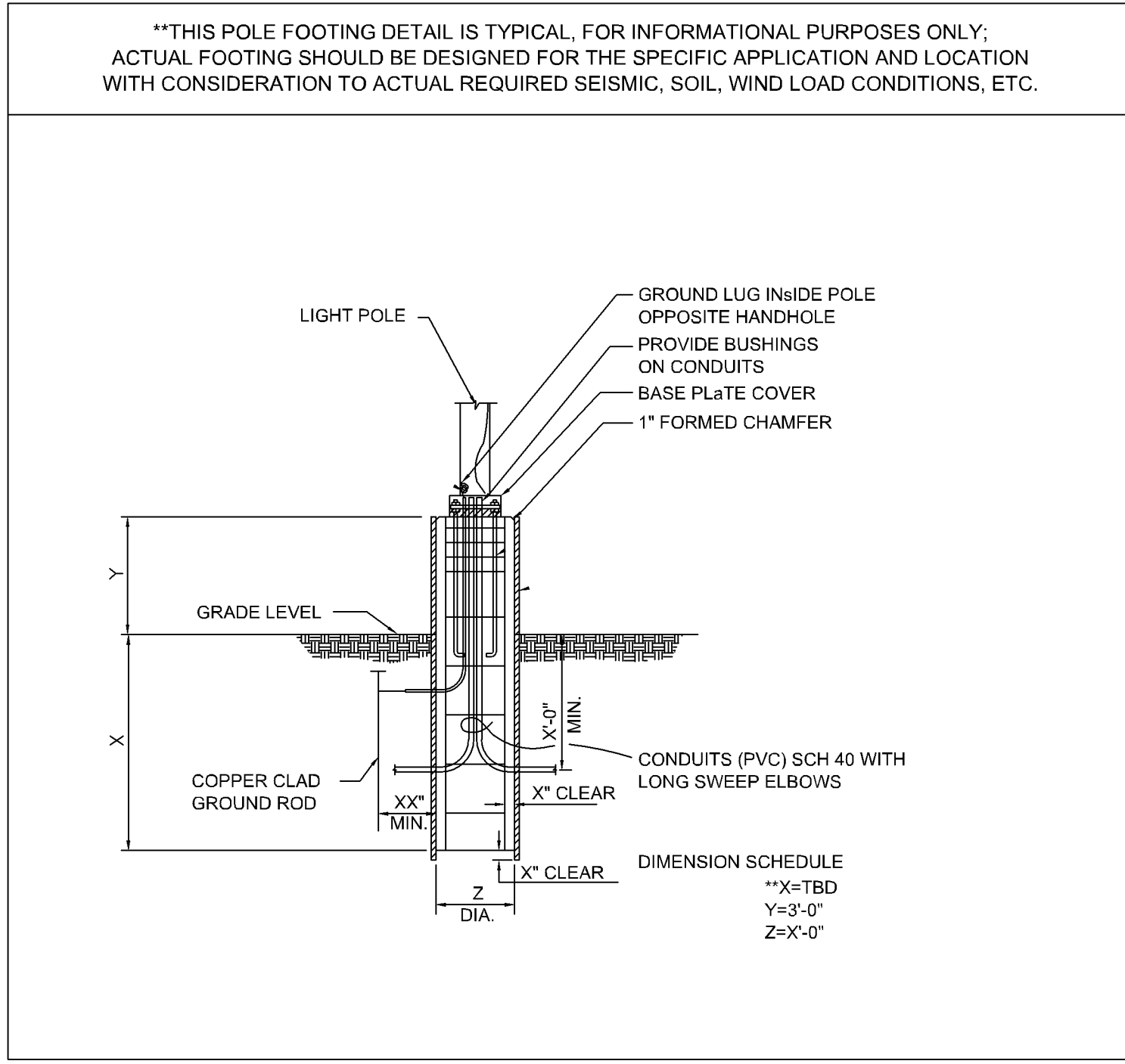
Lighting Plan Approved
Zoning Review Only
September 5, 2018



2

POLE DETAIL PARKING LOT (TYPICAL) Mb-2

SCALE: NTS



3

LIGHT POLE BASE DETAIL (TYPICAL)

SCALE: NTS

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 MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER VARIABLE FIELD CONDITIONS.

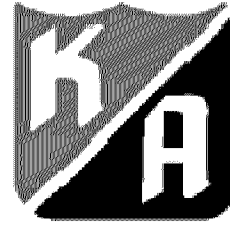
FOR ADDITIONAL LIGHTING INFORMATION CONTACT:
On-Site Lighting & Survey, LLC

PH: 763.684.1548

On-Site Lighting & Survey, LLC

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO MN 55313

PH: 763.684.1548
FAX: 763.682.9048



KRAUS-ANDERSON

VALLEY WEST CENTER

10520-10608 FRANCE AVENUE
BLOOMINGTON, MN 55431

RICHARD L.J. KLUZAK

PROFESSIONAL ENGINEER

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO MN 55313

PH: 763.682.7128
FAX: 763.682.9048

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: [Signature]

Date: 09/05/2018 License #: 23463

#	DATE	INIT	DESCRIPTION
1	02.13.2018	NM/JCM	ADDED FIXTURES
2	09.05.2018	JLS	INITIAL LED PLAN ADDED
3			
4			
5			
6			
7			
8			
9			

INITIAL LED PHOTOMETRIC SCHEDULES & DETAILS

KA180129

01.29.2018

2

N.MOLENDA

J.MACKEY

SL3.3

REV #:

2