

CASE #PL2020-191

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
 NEW END CAP**
 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: *[Signature]*
 Date: **12/08/2020** License #: **23463**

#	DATE	INIT	DESCRIPTION
1	12.07.2020	ZPN	ADD INITIAL LED PAGES
2	12.08.2020	ZPN	LUMINAIRE SCHEDULE .81
3			
4			
5			
6			
7			
8			
9			

EXISTING PHOTOMETRIC PLAN

PROJECT # KA180129

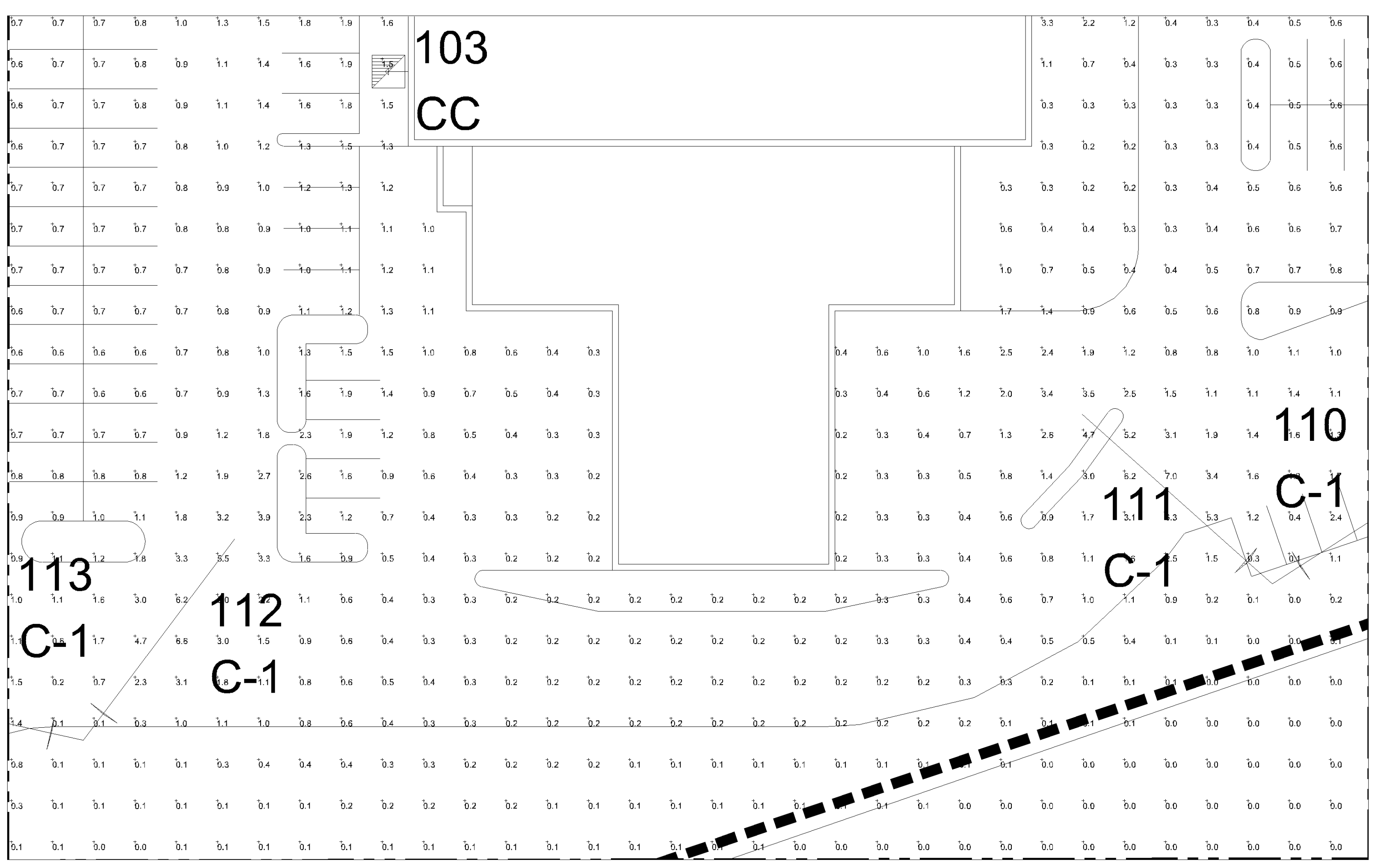
ISSUE DATE 12.04.2020

DESIGN LEVEL 2

AGI Z.NORDIN

GD Z.NORDIN

SHEET: SL1.0 REV: 2



1 EXISTING PHOTOMETRIC PLAN
 SCALE: 1"= 20'



Label	Avg	Max	Min	Avg/Min	Max/Min
Retail Entrance	13.28	15.4	10.5	1.26	1.47
Parking Redevelopment	3.78	6.0	2.0	1.89	3.00

Symbol	Qty	Label	Arrangement	TLL	LLF	Description	BUG Rating
	4	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht	N.A.
	1	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.	B3-U3-G4

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 DATABASE 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

CASE #PL2020-191

LIGHTING PLAN APPROVED

CITY OF BLOOMINGTON MINNESOTA NMJ
12/09/2020

On-Site Lighting & Survey, LLC

1111 HIGHWAY 25 NORTH
SUITE 201
BUFFALO MN 55313
PH: 763.684.1548
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KRAUS-ANDERSON

**VALLEY WEST CENTER
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Date: 12/08/2020 License #: 23463

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1	12.07.2020	ZPN	ADD INITIAL LED PAGES
2	12.08.2020	ZPN	LUMINAIRE SCHEDULE .S1
3			
4			
5			
6			
7			
8			
9			

LED PHOTOMETRIC PLAN

KA180129

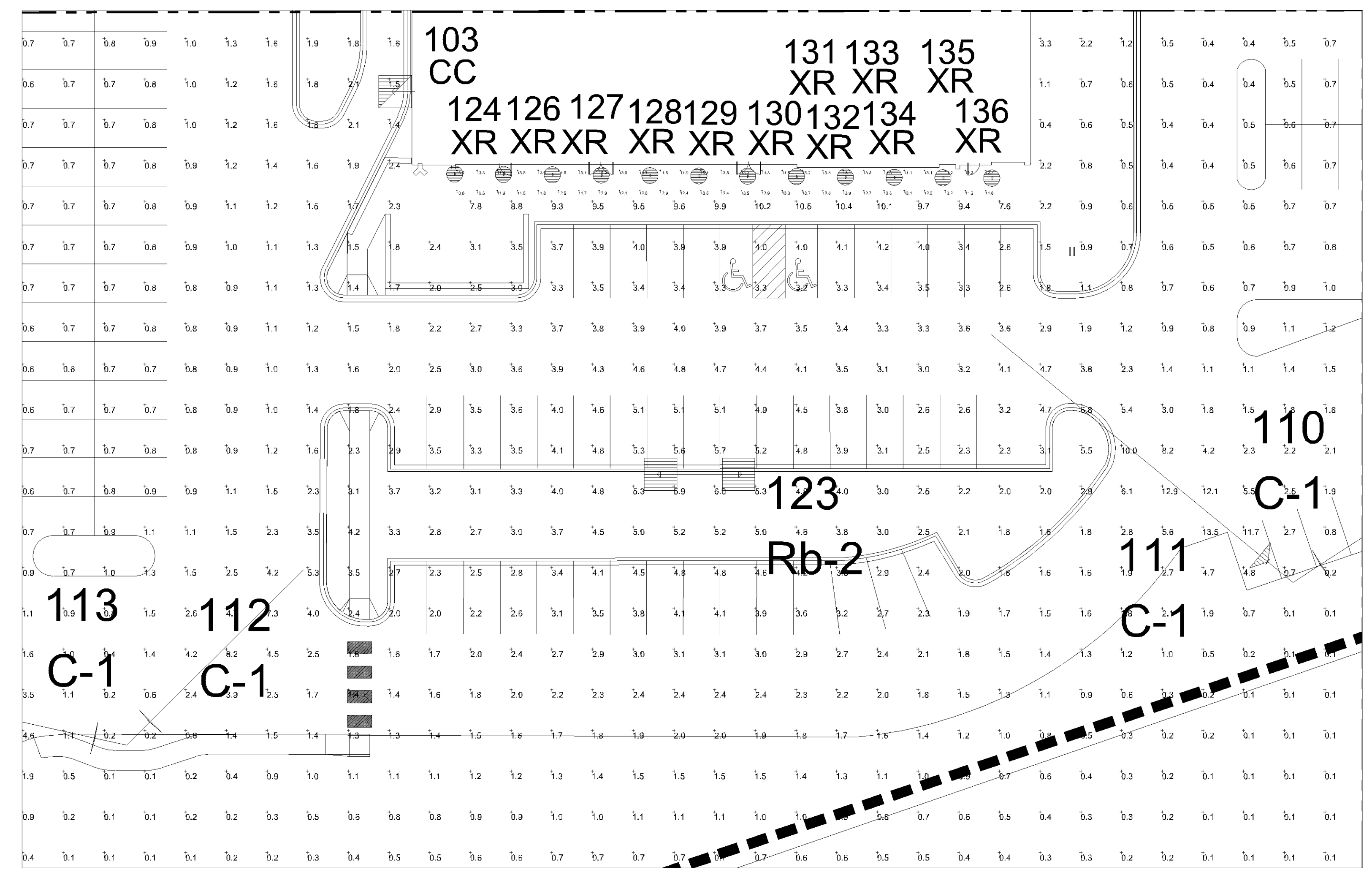
12.04.2020

2

Z.NORDIN

Z.NORDIN

SHEET: **SL2.0** REV: **2**



1 LED PHOTOMETRIC PLAN
SCALE: 1" = 20'

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	TLL	LLF	Description	BUG Rating
	4	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht	N.A.
	1	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.	B3-U3-G4
	1	Rb-2	BACK-BACK	N.A.	0.810	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) Cooper GLEON-AF-07-LED-E1-5WQ	B5-U0-G5
	12	XR	SINGLE	N.A.	0.810	New Recessed Can 35W LED 11'-0 Mtg Ht (4000K/3398 Lumens) Sylvania 72628	B2-U0-G0

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
Retail Entrance	13.28	15.4	10.5	1.26	1.47
Parking Redevelopment	3.78	6.0	2.0	1.89	3.00

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 RANGES 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.

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LIGHTING PLAN APPROVED
 CITY OF BLOOMINGTON MINNESOTA
 NMJ
 12/09/2020

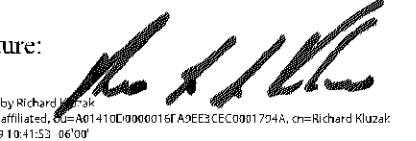
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3			
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INITIAL LED PHOTOMETRIC PLAN

PROJECT # KA180129

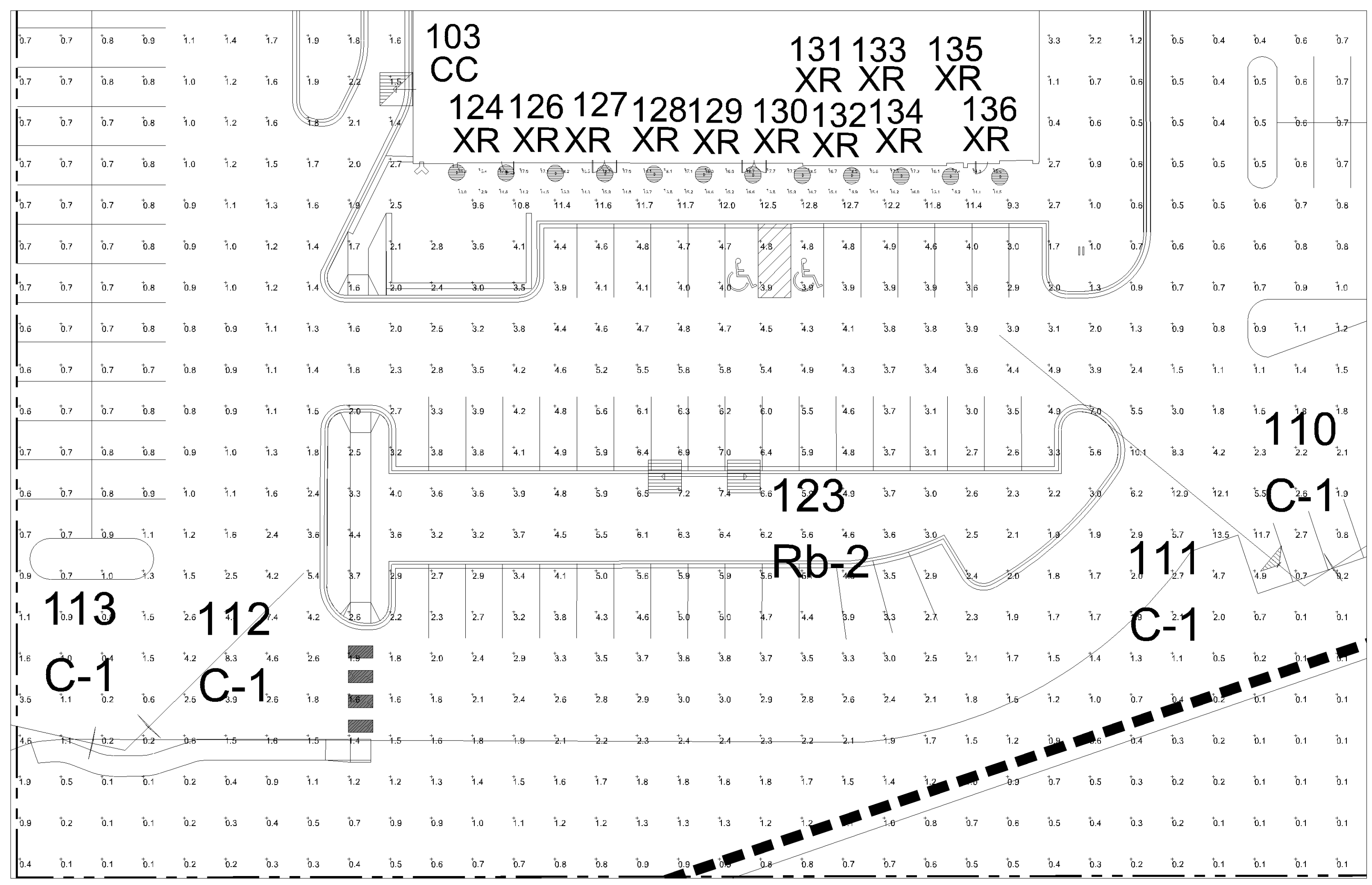
ISSUE DATE 12.04.2020

DESIGN LEVEL 2

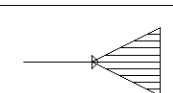
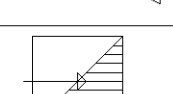
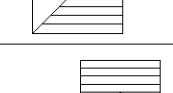
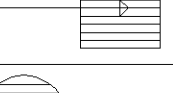
AGI Z.NORDIN

CAD Z.NORDIN

SHEET: SL3.0 REV: 1



1 INITIAL LED PHOTOMETRIC PLAN
 SCALE: 1"= 20'

Symbol	Qty	Label	Arrangement	TLL	LLF	Description	BUG Rating
	4	C-1	SINGLE	140000	0.450	Existing 1000W HPS Flood 29' Mtg Ht	N.A.
	1	CC	SINGLE	34200	0.650	Existing Fixt 400W MH, 42' Mtg. Ht.	B3-U3-G4
	1	Rb-2	BACK-BACK	N.A.	1.000	New Base, Pole, Fixt 391W LED T5WQ 29' Mtg Ht (4000K/44347 Lumens/1000mA) Cooper GLEON-AF-07-LED-E1-5WQ	B5-U0-G5
	12	XR	SINGLE	N.A.	1.000	New Recessed Can 35W LED 11'-0 Mtg Ht (4000K/3398 Lumens) Sylvania 72628	B2-U0-G0

Label	Avg	Max	Min	Avg/Min	Max/Min
Retail Entrance	16.28	18.9	12.9	1.26	1.47
Parking Redevelopment	4.47	7.4	2.2	2.03	3.36

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