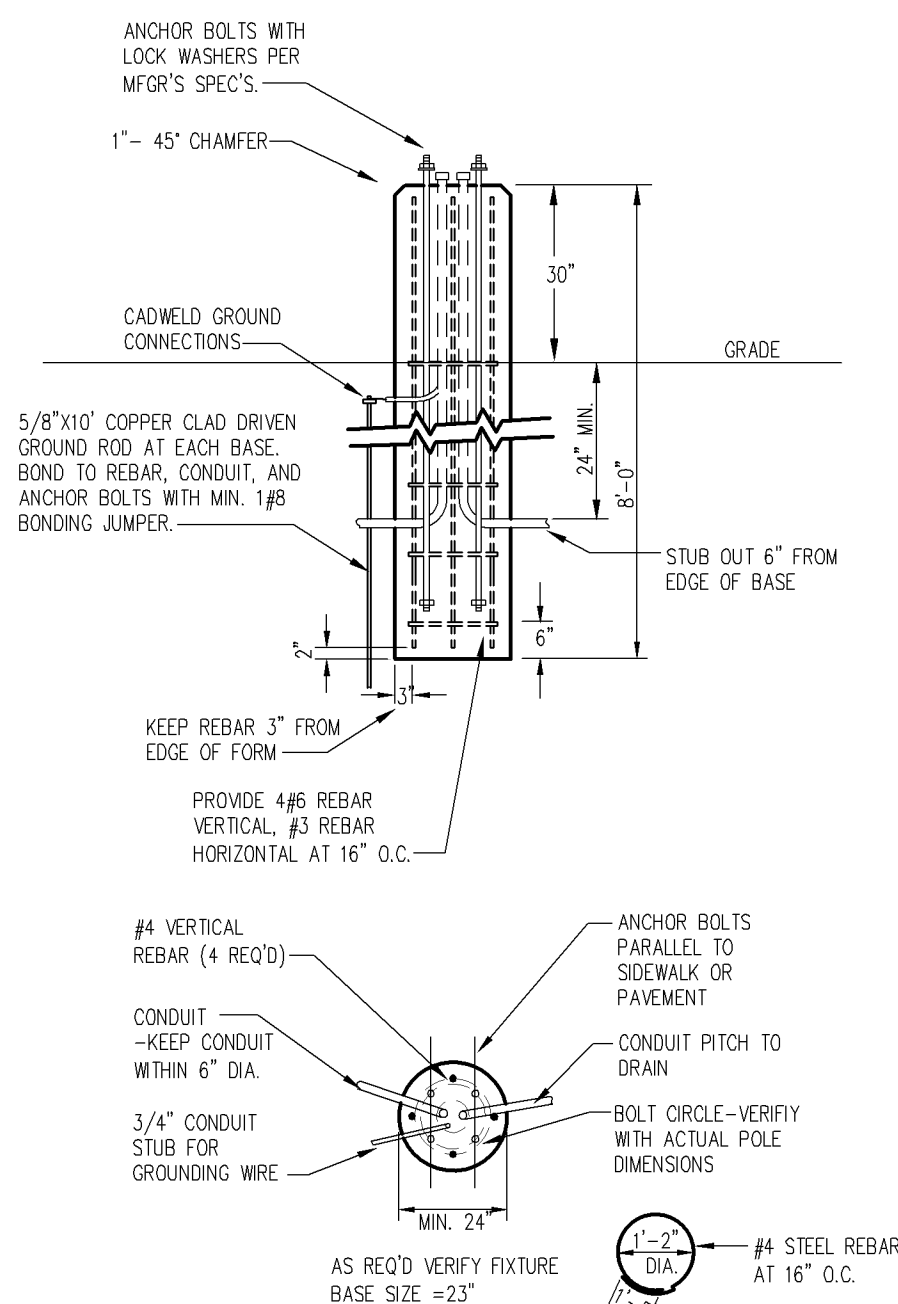


POWER & COMMUNICATION LEGEND	
⊕ 120V DUPLEX OUTLET	⚡ MOTOR CONNECTION
⊕ 120V QUAD OUTLET	⏏ ELECTRICAL DISCONNECT
⊕ 240 VOLT RECEPTACLE	⏏ ELECTRICAL STARTER DISCONNECT
⏏ DATA/COMMUNICATIONS OUTLET	⏏ ELECTRICAL CONNECTION W/NOON-FUSED DISCONNECT
⏏ TELEPHONE OUTLET	⏏ ELECTRICAL CONNECTION W/FUSED DISCONNECT
⏏ TELEVISION OUTLET	⏏ ELECTRICAL CONNECTION W/WEATHER PROOF DISCONNECTS
⏏ DATA/TV COMBO OUTLET	⏏ ELECTRICAL CONNECTION W/20A SWITCH FUSE
⏏ TELE/TV OUTLET	⏏ PANELBOARD
⏏ FLOOR OUTLET	⏏ THERMOSTAT MOUNTED AT 48" A.F.F.
⏏ JUNCTION BOX	⏏ SMOKE/CO ALARM
⏏ PUSHBUTTON STATION	⏏ SMOKE ALARM
⏏ SPEAKER	
⏏ TIME CLOCK	
⏏ NURSE CALL PULL STATION	

LIGHTING LEGEND	
⏏ RECESSED 2x4 FLUORESCENT FIXTURE	⏏ SINGLE POLE SWITCH
⏏ RECESSED 2x2 FLUORESCENT FIXTURE	⏏ 2-POLE SWITCH
⏏ INDICATES NIGHTLIGHT FIXTURE	⏏ 3-WAY SWITCH
⏏ INDICATES EMERGENCY FIXTURE	⏏ 4-WAY SWITCH
⏏ INDICATES EMERGENCY/NIGHTLIGHT FIXTURE	⏏ SWITCH W/PILOT LIGHT
⏏ SURFACE MOUNT 1x4 FLUORESCENT FIXTURE	⏏ WALL MOUNTED SINGLE LEVEL OCCUPANCY SENSOR
⏏ HIGH BAY 2x4 FLUORESCENT FIXTURE	⏏ WALL MOUNTED DUAL LEVEL OCCUPANCY SENSOR
⏏ SURFACE WALL MOUNTED FLUORESCENT FIXTURE	⏏ CEILING MOUNTED OCCUPANCY SENSOR
⏏ SURFACE CEILING MOUNT FLUORESCENT FIXTURE	⏏ NL INDICATES FIXTURE TO REMAIN ON FOR SECURITY PURPOSES
⏏ RECESSED DOWNLIGHT	⏏ A.B. INDICATES LIGHT FIXTURE SWITCH-LEGS
⏏ SURFACE WALL MOUNTED FIXTURE	⏏ P-X INDICATES PANEL AND CIRCUIT NUMBER
⏏ SURFACE MOUNTED FIXTURE	⏏ ① INDICATES LIGHT FIXTURE TYPE
⏏ SURFACE MOUNTED PENDANT FIXTURE	⏏ EX INDICATES EXISTING FIXTURE
⏏ OUTSIDE POLE-MOUNT LIGHT FIXTURE	⏏ RL INDICATES RELOCATED FIXTURE
⏏ EXTERIOR GROUND MOUNTED LIGHT FIXTURE	⏏ TC INDICATES FIXTURE CONTROLLED BY TIMECLOCK
⏏ EMERGENCY LIGHTING FIXTURE	⏏ EM INDICATES EMERGENCY FIXTURE
⏏ LED EXIT SIGN-SHADED AREA INDICATES ILLUMINATED FACE	
⏏ LED EXIT/EMERGENCY SIGN-SHADED AREA INDICATES ILLUMINATED FACE	
⏏ EXTERIOR EMERGENCY EGRESS LIGHT	

- ### SITE NOTES
- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.
 - MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, UTILITY REQUIREMENTS, LAWS AND ORDINANCES OF FEDERAL, STATE, COUNTY AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
 - THE CONTRACTOR SHALL COMPLY WITH ALL CODES AND STANDARDS APPLICABLE TO THIS PROJECT THAT ARE LISTED BUT NOT LIMITED TO: NEC, NFPA, NEMA, ANSI, IES, IEEE, NFPA LIFE SAFETY 101, ASHRAE 90.1, IECX ENERGY CODE AND IRC BUILDING CODE.
 - PRIOR TO ANY DIGGING, TRENCHING, ETC. CONTACT ALL LOCAL UTILITY COMPANIES AND MUNICIPALITIES AND CONFIRM EXACT LOCATIONS OF ALL EXISTING UTILITIES.
 - MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL OR ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY.
 - ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING TO BE REUSED.
 - ALL MATERIALS AND EQUIPMENT SHALL BE STORED, HANDLED, ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
 - COORDINATE THE UTILITY COMPANY SERVICE FEEDS AND INSTALLATION.
 - ALL POLE FIXTURES TO BE LOCATED 4' AWAY FROM EDGE OF CURB.
 - ALL EXTERIOR LIGHT FIXTURES TO BE CONNECTED TO A COMMON EQUIPMENT GROUND. USE #6, TYPE THWN.
 - ALL CIRCUIT TO BE PLACED IN 1" CONDUITS UNLESS OTHERWISE NOTED. CIRCUIT TO USE COPPER WIRE, TYPE THWN.
 - THE CONTROLLING LIGHTING CONTRACTORS SHALL BE MOUNTED INSIDE THE BUILDING WITH TIME-CLOCK, CONTRA. & REMOTE PHOTOCELLS LOCATED ON THE EXTERIOR SIDE OF THE BUILDING WALL. INSTALL PHOTOCELLS AT LOCATIONS WHERE BUILDING OR OTHER OBSTRUCTIONS WILL NOT INTERFERE WITH THEIR PROPER OPERATION. FINAL BRANCH CIRCUIT SUPPLY CONNECTIONS WILL BE PROVIDED BY THE BUILDING ELECTRICAL CONTRACTORS.
 - MIN. BURIAL DEPTH FOR THE LIGHTING CIRCUIT SHALL BE 24". A SLIGHT DECREASE IN DEPTH IS ALLOWED WITHIN 10' OF THE POLES.
 - VERIFY CONSTRUCTION AREAS ON OTHER SITE PLANS FOR POTENTIAL OBSTACLES AND CONSTRUCTION LIMITS.

- ### ELECTRIC GENERAL NOTES
- ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.
 - ENERGY CODE WILL BE IN ACCORDANCE WITH ASHRAE 90.1 2010.
 - COORDINATE WORK WITH ALL OTHER TRADES.
 - EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED AT ALL LOCATIONS.
 - ALL MEASUREMENTS TO TOP OF BOX. RECEPTACLES SHALL BE 20" A.F.F. SWITCHES SHALL BE 48" A.F.F.
 - GP. PROTECT ALL RECEPTACLES WITHIN 6' OF EVERY SINK.



- NOTE:
- USE MFG'S DIMENSIONS FOR EXACT ANCHOR BOLT AND COVER PLACEMENT.
 - INSTALL INLINE FUSES IN EACH UNGROUNDED CONDUCTOR WITHIN POLE BASE HAND HOLE.
 - TRIM/FINISH EXPOSED PORTION OF BASE TO REMOVE/COVER FORM MARKS.

2 POLE BASE DETAIL
E1.1 NOT TO SCALE

CASE #PL2019-40

LIGHTING PLAN APPROVED
NMJ
08/14/2020

CITY OF
BLOOMINGTON
MINNESOTA

REVISIONS

NO.	DATE	DESCRIPTION
1	8/11/20	REVISED SITE LIGHTING
2	2/11/20	REVISED DRAWINGS
3	1/6/20	REVISED DRAWINGS

DATE	8/11/20
REVISIONS	1
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DRAWN BY: DAK	CHECKED BY: TJA
DATE:	DATE:
DWG FILE:	REF FILE:
JOB NUMBER: 508-233-15	

BEPD!
ELECTRIC LLC
1 INDUSTRIAL BLVD. SAUK RAPIDS, MN 56379
Phone: 320-656-0847
FAX: 320-656-0312

BRANDT OFFICE
500 Industrial Drive E.
Bloomington, WI 55408
Tel: 715-381-5277
Fax: 715-381-5277

AC/CA
Auth Consulting/associates

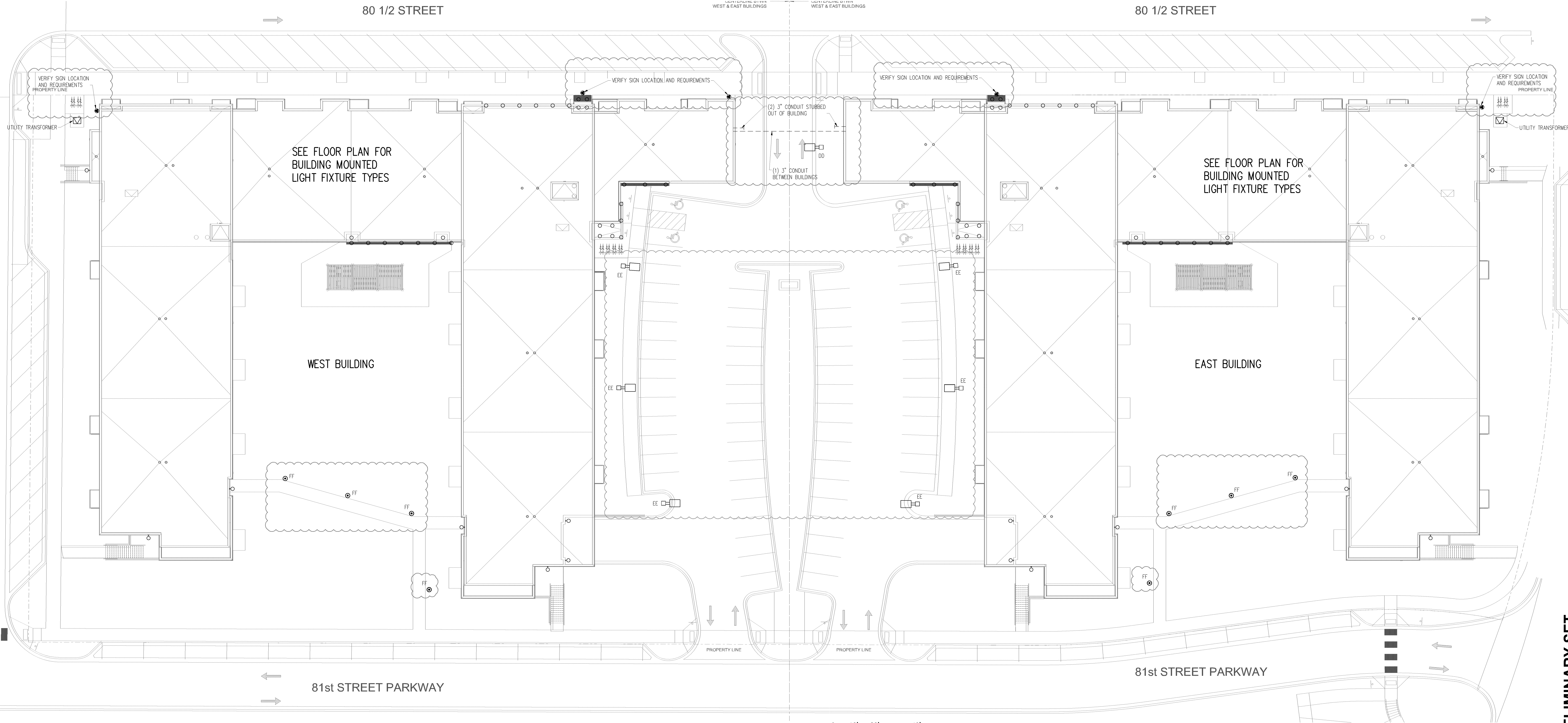
1. I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Tony Paul
DATE: 11/8/19 REG. NO.: 21097

PROJECT: PROPOSED PROJECT FOR:
KNOX & AMERICAN - BUILDING EAST & WEST
BLOOMINGTON, MN

SHEET NO. E1.1

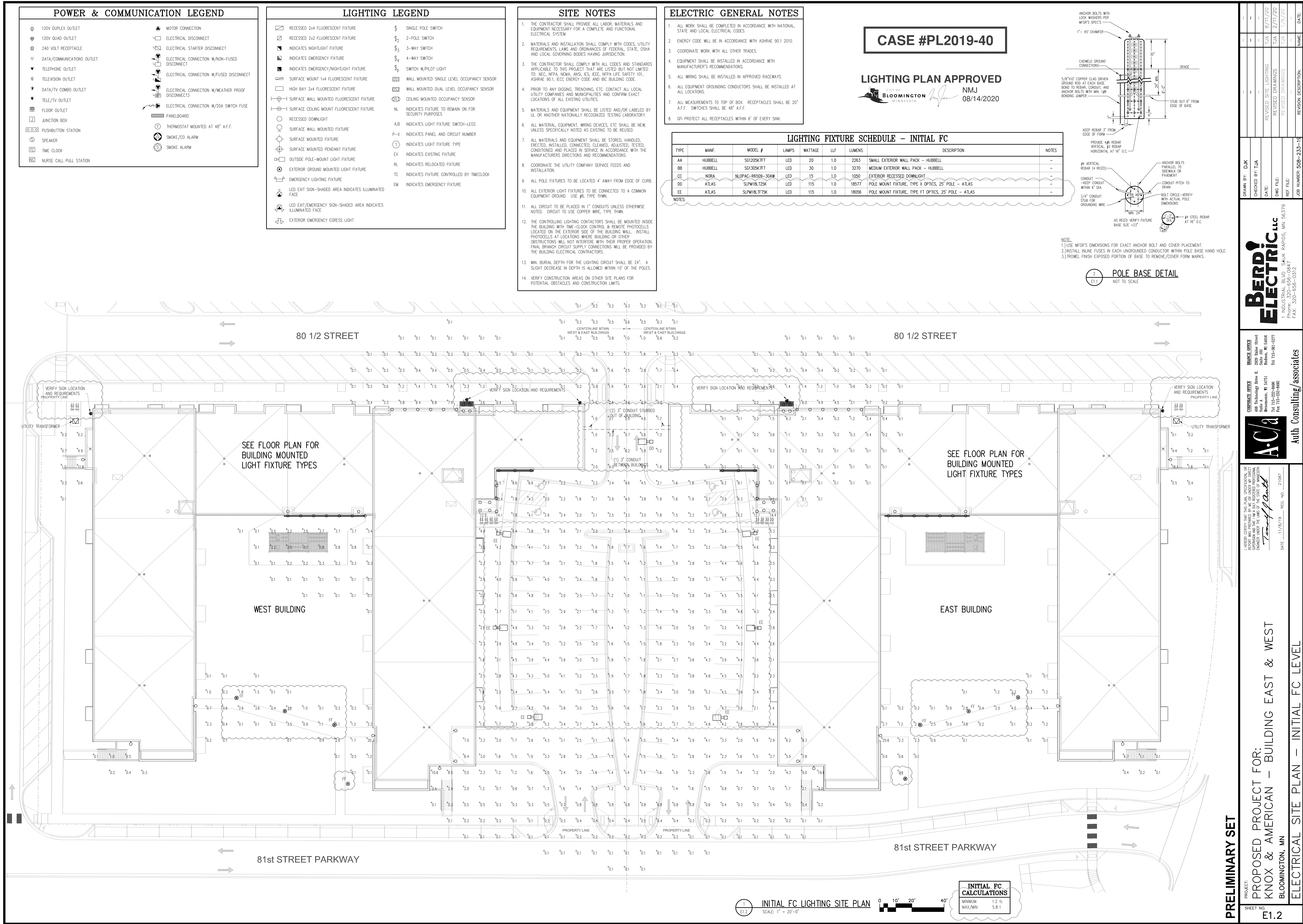
PRELIMINARY SET

ELECTRICAL SITE PLAN



1 ELECTRICAL SITE PLAN
E1.1 SCALE: 1" = 20'-0"

Approved Plan



Approved Plan

	120V DUPLEX OUTLET		MOTOR CONNECTION
	120V QUAD OUTLET		ELECTRICAL DISCONNECT
	240 VOLT RECEPTACLE		ELECTRICAL STARTER DISCONNECT
	DATA/COMMUNICATIONS OUTLET		ELECTRICAL CONNECTION W/NON-FUSED DISCONNECT
	TELEPHONE OUTLET		ELECTRICAL CONNECTION W/FUSED DISCONNECT
	TELEVISION OUTLET		ELECTRICAL CONNECTION W/WEATHER PROOF DISCONNECTS
	DATA/TV COMBO OUTLET		PANELBOARD
	TELE/TV OUTLET		THERMOSTAT MOUNTED AT 48" A.F.F.
	FLOOR OUTLET		SMOKE/CO ALARM
	JUNCTION BOX		SMOKE ALARM
	PUSHBUTTON STATION		
	SPEAKER		
	TIME CLOCK		
	NURSE CALL PULL STATION		

	RECESSED 2x4 FLUORESCENT FIXTURE	\$	SINGLE POLE SWITCH
	RECESSED 2x2 FLUORESCENT FIXTURE	\$ ₂	2-POLE SWITCH
	INDICATES NIGHTLIGHT FIXTURE	\$ ₃	3-WAY SWITCH
	INDICATES EMERGENCY FIXTURE	\$ ₄	4-WAY SWITCH
	INDICATES EMERGENCY/NIGHTLIGHT FIXTURE	\$ ₅	SWITCH w/POLE LIGHT
	SURFACE MOUNT 1x4 FLUORESCENT FIXTURE	OS ₁	WALL MOUNTED SINGLE LEVEL OCCUPANCY SENSOR
	HIGH BAY 2x4 FLUORESCENT FIXTURE	OS ₂	WALL MOUNTED DUAL LEVEL OCCUPANCY SENSOR
	SURFACE WALL MOUNTED FLUORESCENT FIXTURE	CE	CEILING MOUNTED OCCUPANCY SENSOR
	SURFACE CEILING MOUNT FLUORESCENT FIXTURE	NL	INDICATES FIXTURE TO REMAIN ON FOR SECURITY PURPOSES
	RECESSED DOWNLIGHT	A,B	INDICATES LIGHT FIXTURE SWITCH-LESS
	SURFACE WALL MOUNTED FIXTURE	P-X	INDICATES PANEL AND CIRCUIT NUMBER
	SURFACE MOUNTED FIXTURE	①	INDICATES LIGHT FIXTURE TYPE
	SURFACE MOUNTED PENDANT FIXTURE	EX	INDICATES EXISTING FIXTURE
	OUTSIDE POLE-MOUNT LIGHT FIXTURE	RL	INDICATES RELOCATED FIXTURE
	EXTERIOR GROUND MOUNTED LIGHT FIXTURE	TC	INDICATES FIXTURE CONTROLLED BY TIMECLOCK
	EMERGENCY LIGHTING FIXTURE	EM	INDICATES EMERGENCY FIXTURE
	LED EXIT SIGN-SHADED AREA INDICATES ILLUMINATED FACE		
	LED EXIT/EMERGENCY SIGN-SHADED AREA INDICATES ILLUMINATED FACE		
	EXTERIOR EMERGENCY EGRESS LIGHT		

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM.
2. MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, UTILITY REQUIREMENTS, LAWS AND ORDINANCES OF FEDERAL, STATE, COUNTY AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
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4. PRIOR TO ANY DIGGING, TRENCHING, ETC. CONTACT ALL UTILITY COMPANIES AND MUNICIPALITIES AND CONFIRM EXACT LOCATIONS OF ALL EXISTING UTILITIES.
5. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL OR ANOTHER NATIONALLY RECOGNIZED TESTING LABORATORY.
6. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, SHALL BE NEW, UNLESS SPECIFICALLY NOTED AS EXISTING TO BE HANDLED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE STORED, HANDLED, PROTECTED, UNDESIRED CONDITIONS, AND NEVER TESTED/CONDITIONED AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS AND RECOMMENDATIONS.
8. COORDINATE THE UTILITY COMPANY SERVICE FEEDS AND INSTALLATION.
9. ALL POLE FIXTURES TO BE LOCATED 4' AWAY FROM EDGE OF CURB.
10. ALL EXTERIOR LIGHT FIXTURES TO BE CONNECTED TO A COMMON EQUIPMENT GROUND. USE #6 THIN TYPE.
11. ALL GROUND TO BE PLACED IN 1" CONDUITS UNLESS OTHERWISE NOTED. GROUND TO USE COPPER WIRE, TYPE THWN.
12. THE CONTROLLING LIGHTING CONTRACTOR SHALL BE MOUNTED INSIDE THE BUILDING WITH TIME-CLOCK CONTROL & REMOTE PHOTOCELLS LOCATED ON THE EXTERIOR SIDE OF THE BUILDING WALL. INSTALL PHOTOCELLS AT LOCATION OF BUILDING ENTRANCE. NO OTHER INSTRUCTIONS WILL NOT INTERFERE WITH THEIR PROPER OPERATION. PHOTOCELLS MOUNTING HEIGHTS AND LOCATIONS WILL BE PROVIDED BY THE BUILDING ELECTRICAL CONTRACTORS.
13. MIN. RIMM DEPTH FOR THE LIGHTING CIRCUIT SHALL BE 24". A SLOPE DRAINAGE IN DEPTH IS ALLOWED WITHIN 10" OF THE POLES.
14. VERIFY CONSTRUCTION AREAS ON OTHER SITE PLANS FOR POTENTIAL OBSTACLES AND CONSTRUCTION LIMITS.

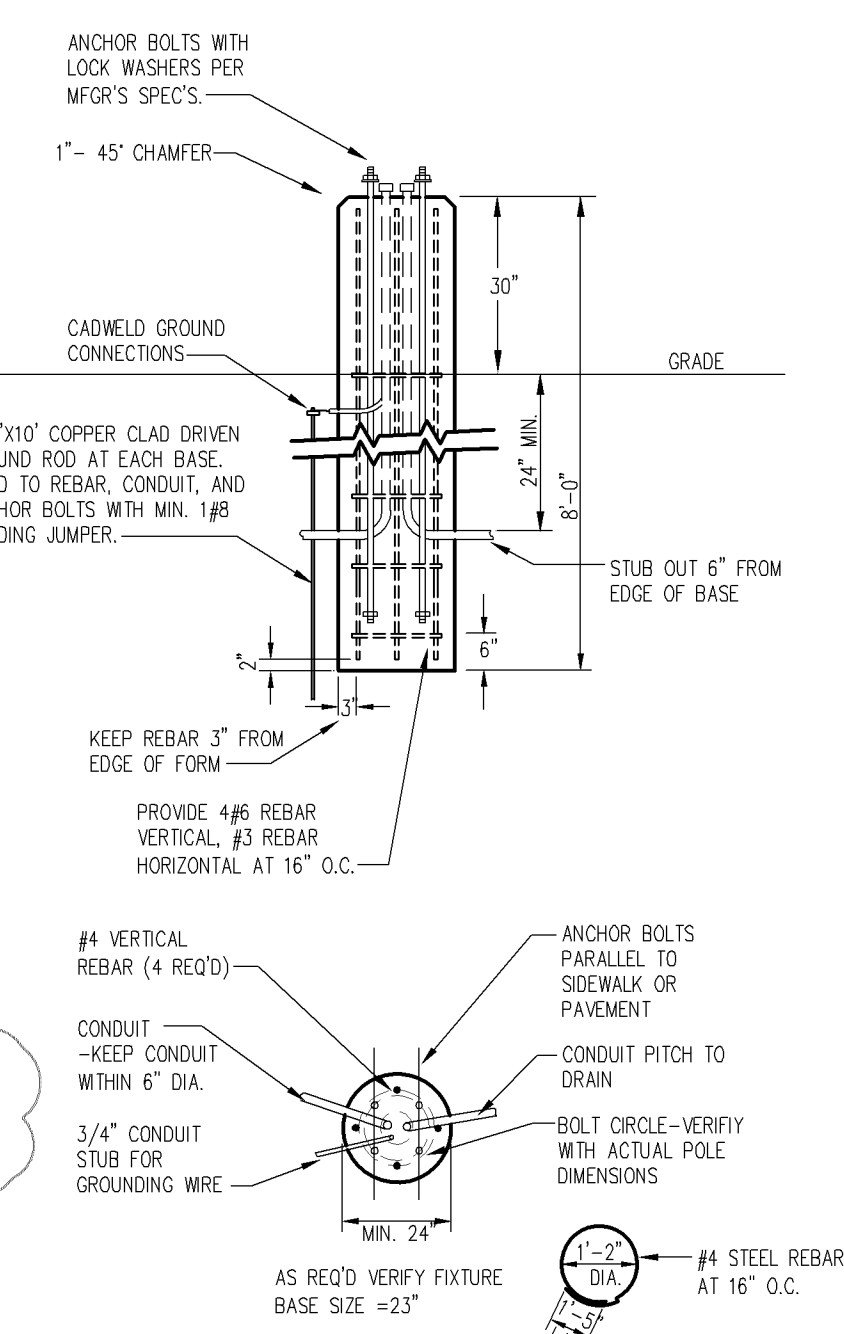
1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NATIONAL, STATE AND LOCAL ELECTRICAL CODES.
2. ENERGY CODE WILL BE IN ACCORDANCE WITH ASHRAE 90.1 2010.
3. COORDINATE WORK WITH ALL OTHER TRADES.
4. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. ALL WIRING SHALL BE INSTALLED IN APPROVED RACEWAYS.
6. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSTALLED AT ALL LOCATIONS.
7. ALL MEASUREMENTS TO TOP OF BOX. RECEPTACLES SHALL BE 20" AFF. SWITCHES SHALL BE 48" AFF.
8. GFI PROTECT ALL RECEPTACLES WITHIN 6' OF EVERY SINK.

LIGHTING PLAN APPROVED

 CITY OF
BLOOMINGTON
MINNESOTA

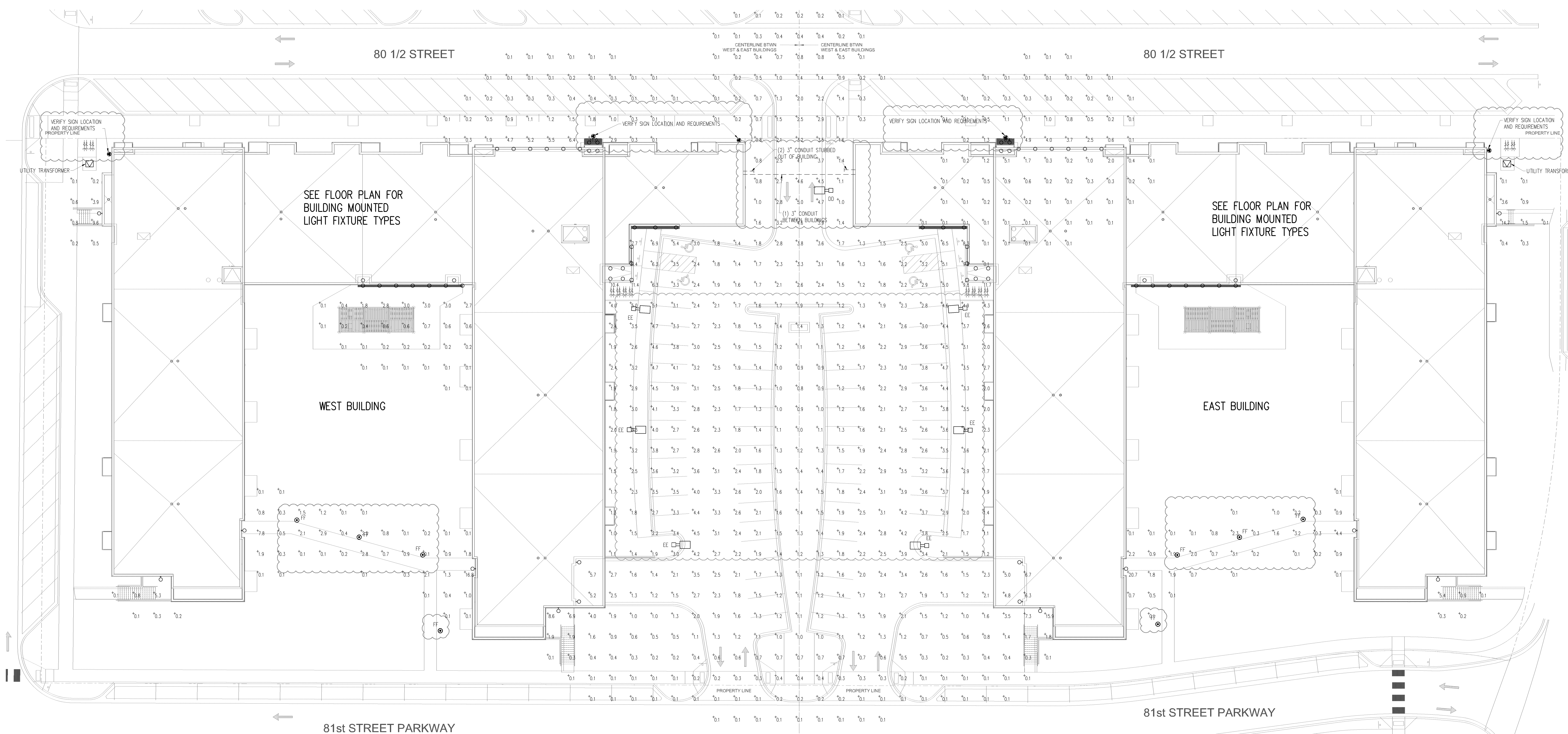
 NMJ
08/14/2020

TYPE	MANF.	MODEL #	LAMPS	WATTAGE	ULF	LUMENS	DESCRIPTION	NOTE
AA	HUBBELL	SG1205K07T	LED	20	.81	1833	SMALL EXTERIOR WALL PACK - HUBBELL	-
BB	HUBBELL	SG1305K07T	LED	30	.81	2648	MEDIUM EXTERIOR WALL PACK - HUBBELL	-
CC	NORA	NLOPAC-RE509-10AW	LED	15	.81	850	EXTERIOR RECESSED DOWNLIGHT	-
DD	ATLAS	SUPMIBLT2SK	LED	115	.81	15047	POLE MOUNT FIXTURE, TYPE II OPTICS, 25' POLE - ATLAS	-
EE	ATLAS	SUPMIBLT5K	LED	115	.81	14625	POLE MOUNT FIXTURE, TYPE FT OPTICS, 25' POLE - ATLAS	-

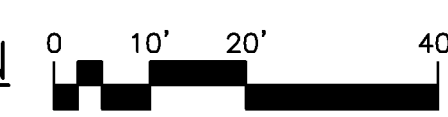


NOTE:
1.)USE MFR'S DIMENSIONS FOR EXACT ANCHOR BOLT AND COVER PLACEMENT.
2.)INSTALL INLINE FUSES IN EACH UNGROUNDED CONDUCTOR WITHIN POLE BASE HAND HOLE.
3.)TROWEL FINISH EXPOSED PORTION OF BASE TO REMOVE/COVER FORM MARKS.

E1.1 NOT TO SCALE



1 MAINTAINED FC LIGHTING SITE PLAN
E1.3 SCALE: 1" = 20'-0"



MAINTAINED FOR CALCULATIONS	
MINIMUM:	1.0 fc
MAX/MIN:	5.6:1

PRELIMINARY SET

PROJECT: PROPOSED PROJECT FOR:
KNOX & AMERICAN – BUILDING EAST & WEST

BLOOMINGTON, MN
ELECTRICAL SITE PLAN - MAINTAINED FC LEVEL

A.C./a

COMPANET OFFICE	BRANCH OFFICE
406 Technology Drive E. Suite A Menomonee, WI 54751	3209 Edinor Street Suite 101 Buda, TX 76016
Tel. 715-252-5400 Fax 715-252-4462	Tel. 715-381-5277

Auth Consulting / associates

LEADS EVERY DAY! THIS PLAN, SITUATION, OR
OPPORTUNITY IS AVAILABLE TO ANYONE WHO
WONDER ABOUT THE CARE OF THE STATE OF MINNESOTA
AND THE PEOPLE OF MINNESOTA.

A.C.A.

Tommy Grant

CORPORATE OFFICE
500 Technology Drive E.
Suite 100
Minneapolis, MN 55475
Tel 761-528-9400
Fax 761-532-4462

BRANCH OFFICE
1000 LaSalle Street
Suite 100
Chicago, IL 60606
Tel 715-381-4577
Fax 715-381-4662

DATE 11/8/79 REG. NO. 21087

Auth Consulting/associates

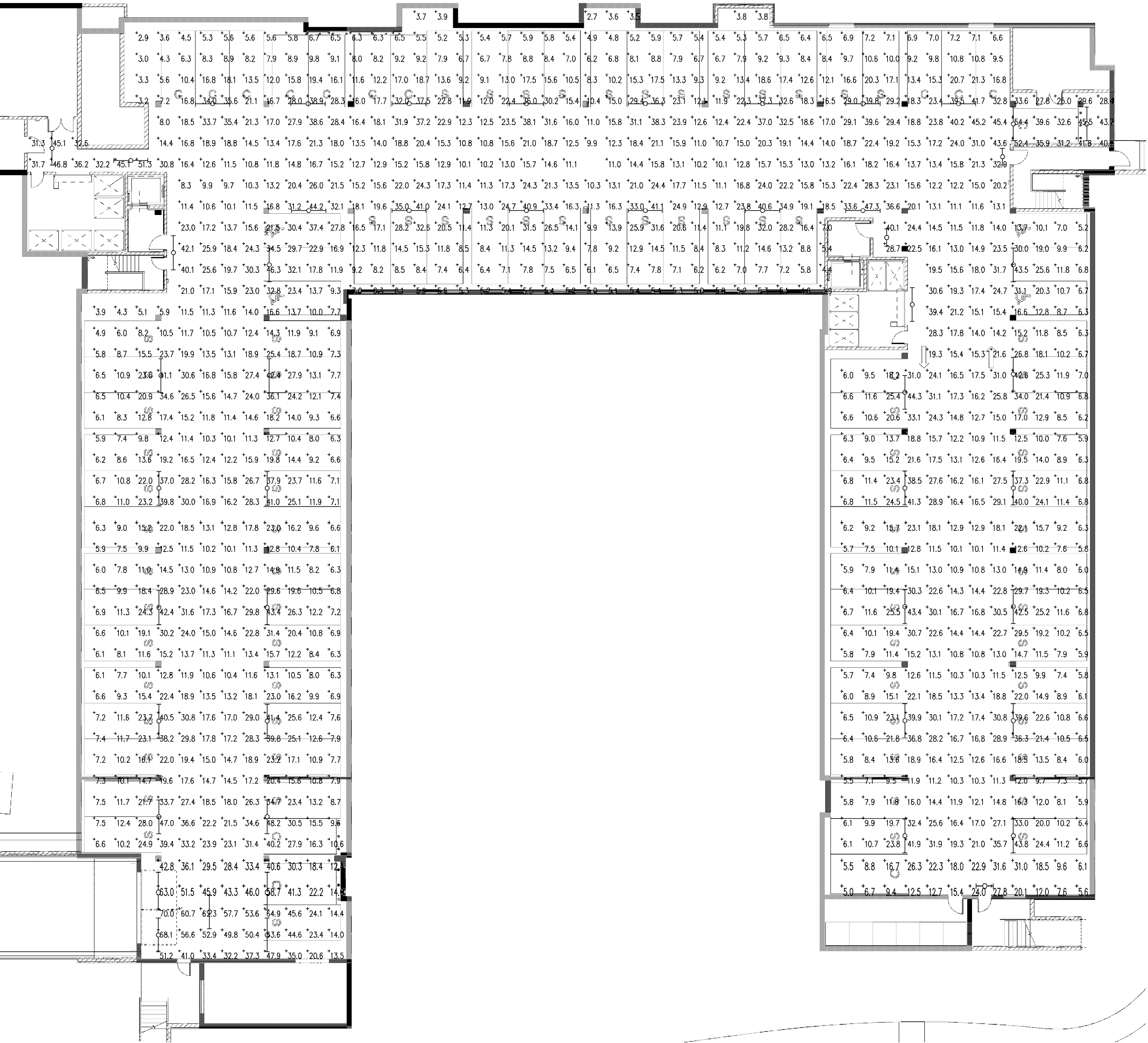
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1 INDUSTRIAL BLVD SAUK RAPIDS, MN 56379
 Phone: 320-658-0847
 FAX: 320-658-0312

JOB NUMBER: 5019-233-15

REVISION DESCRIPTION	NAME	DATE
REVISED SITE LIGHTING	TJA	8/11/20
REVISED DRAWINGS	TJA	2/11/20
REVISED DRAWINGS	TJA	1/5/20

Approved Plan



INITIAL FC CALCULATIONS	
MINIMUM:	9.5 fc
MAX/MIN:	4:1:1

1 GARAGE LIGHTING CALC - INITIAL
SCALE: 1/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE - MAINTAINED					
TYPE	LAMPS	WATTAGE	LUMENS	LLF	DESCRIPTION
2A	LED	42	4576	.81	4' STRIP FIXTURE
2B	LED	86	9153	.81	8' STRIP FIXTURE

NOTES:

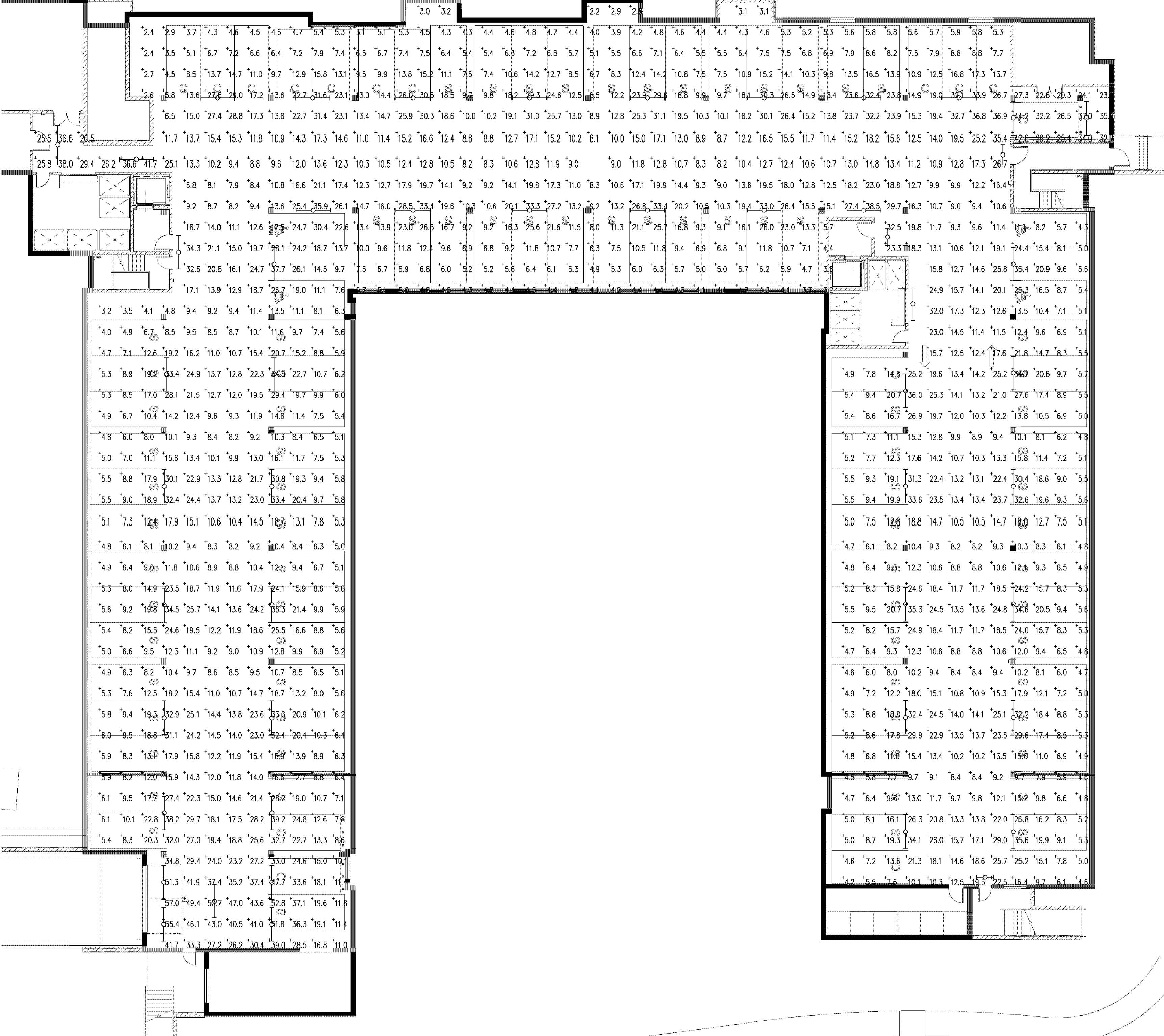
CASE FILE #PL201900040

LIGHTING FIXTURE SCHEDULE - INITIAL					
TYPE	LAMPS	WATTAGE	LUMENS	LLF	DESCRIPTION
2A	LED	42	5650	1	4' STRIP FIXTURE
2B	LED	86	11300	1	8' STRIP FIXTURE

NOTES:

LIGHTING PLAN APPROVED

BLU BLOOMINGTON MINNESOTA
NMJ
12/11/2019



MAINTAINED FC CALCULATIONS	
MINIMUM:	7.7 fc
MAX/MIN:	4:1:1

2 GARAGE LIGHTING CALC - MAINTAINED
SCALE: 1/16" = 1'-0"

Saylite
TEXAS FLUORESCENTS
Purview®

FEATURES & SPECIFICATIONS

INTENDED USE
Medium body strip for interior warehouse, retail, and utility areas requiring general illumination in a commercial quality strip configuration.

SIZE W x L x H in inches
4.25W x 24" x 4" (1067L x 2.08H)

MATERIALS & FEATURES
Housing is die-cast aluminum and embossed with 22 gage steel. Finish is high reflective baked white enamel. Wiring knockouts are provided on back and end of housing. Ballast cover or reflectors attach without tools to simplify ballast access.

See INJ Series for similar fixtures with reflectors.
* Field price doubles on complete continuous row amounts.
* See INJ Series for similar fixtures with reflectors.

Series C
LED Medium Body Strip

MOULTING
Surface mount, chain hang, double arm.

TYPICAL OPTIONS AND ACCESSORIES
Whisper, Emergency battery backup (EUBA), EUBA CP100, or contact factory for more details.

Rating
ETL Dry and Damp location rating.

Series	Length	Wattage and Lumens	Driver	Knockout Configuration
C	24"	F35W3500L 35W 3500LM	DMV 0-10V Dimming	30K 30K 30K
Medium Body Strip	F35W3500L 35W 3500LM	F35W3500L 35W 3500LM	F35W3500L 35W 3500LM	F35W3500L 35W 3500LM

WP 4.8 3 wire 18 gauge whip
WP10 4.8 4 wire 18 gauge whip
PI 3 Wire Harness
PI2 3 Wire Harness
EUB Emergency battery backup (100)

Size/Type
2400 Series Rtd. Size 142, Candelabra, TX 75066
Phone: 972-243-3171 Fax: 972-243-4200
www.saylite.com email: sales@saylite.com

Crating Number:
Notes:

Saylite
TEXAS FLUORESCENTS
Purview®

Series C
LED Medium Body Strip

8' R - STANDARD
Example: C48LFS5W7800LDMV40K

Series	Length	Wattage and Lumens	Driver	Knockout Configuration
C	96"	F57W7800L 57W 7800LM	DMV 0-10V Dimming	30K 30K 30K
Medium Body Strip	F57W7800L 57W 7800LM	F57W7800L 57W 7800LM	F57W7800L 57W 7800LM	F57W7800L 57W 7800LM

WP 4.8 3 wire 18 gauge whip
WP10 4.8 4 wire 18 gauge whip
PI 3 Wire Harness
PI2 3 Wire Harness
EUB Emergency battery backup (100)

Size/Type
2400 Series Rtd. Size 142, Candelabra, TX 75066
Phone: 972-243-3171 Fax: 972-243-4200
www.saylite.com email: sales@saylite.com

Crating Number:
Notes:

PRELIMINARY SET

PROJECT: PROPOSED PROJECT FOR:
KNOX & AMERICAN - BUILDING EAST
BLOOMINGTON, MN

SHEET NO: E2.9

DATE: 11/9/19 REG. NO.: 21087

Auth Consulting associates

Auth Consulting associates
3308 Southway Drive • St. Cloud, MN 56301
Phone: 320-656-0847
Fax: 320-656-0312

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3308 Southway Drive • St. Cloud, MN 56301
Phone: 320-656-0847
Fax: 320-656-0312

Auth Consulting associates

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Fax: 320-656-0312

CASE FILE #PL201900040

LIGHTING PLAN APPROVED

NMJ
12/11/2019

LIGHTING FIXTURE SCHEDULE - INITIAL

TYPE	LAMPS	WATTAGE	LUMENS	LLF	DESCRIPTION	NOTES
2A	LED	42	5650	1	4' STRIP FIXTURE	-
2B	LED	86	11300	1	8' STRIP FIXTURE	-

NOTES:

Saylite
Total Fluorescents
Re-Invented

TYPE 2B
C98LF86W11300LDMV40K

TYPE 2A
C48LF42W4650LDMV40K

Series C
LED Medium Body Strip

FEATURES & SPECIFICATIONS
EXTENSIBLE USE
Medium body strip for interior workrooms, retail, and utility areas requiring general illumination in a commercial quality strip configuration.
SIZE: W x L x H in inches
4.33W x 2.04W x 0.61H x 2.08H
MATERIALS & FEATURES
Housing is die-cast and embossed code 22 gauge steel. Finish is high reflective baked white enamel. Wiring knockouts are provided on back and end of housing. Bulb covers or reflectors attach without tools to simplify fixture access.
See IND Series for similar fixtures with reflectors.
*End plate doubles as coupler for continuous row mounts.
*See IND Series for similar fixtures with reflectors.

Series C
LED Medium Body Strip

FEATURES & SPECIFICATIONS
EXTENSIBLE USE
Surface mount, chain hang, double stem.
TYPICAL OPTIONS AND ACCESSORIES
Wings, Emergency battery backup (EBA), HLB-CP10, or contact factory for more details.
1. Jiffy
ETI, Dry and Pump location rating.
UL
ETL

2 ft. - STANDARD
Example: C48LF30W3900LDMV40K

4 ft. - STANDARD
Example: C48LF39W4900LDMV40K

8 ft. - STANDARD
Example: C48LF78W7800LDMV40K

Dimensions
All dimensions are inches. Specifications subject to change without notice.

4 ft. Dimensions

8 ft. Dimensions

2 ft. Dimensions

Saylite
Total Fluorescents
Re-Invented

TYPE 2B
C98LF86W11300LDMV40K

TYPE 2A
C48LF42W4650LDMV40K

Series C
LED Medium Body Strip

FEATURES & SPECIFICATIONS
EXTENSIBLE USE
Medium body strip for interior workrooms, retail, and utility areas requiring general illumination in a commercial quality strip configuration.
SIZE: W x L x H in inches
4.33W x 2.04W x 0.61H x 2.08H
MATERIALS & FEATURES
Housing is die-cast and embossed code 22 gauge steel. Finish is high reflective baked white enamel. Wiring knockouts are provided on back and end of housing. Bulb covers or reflectors attach without tools to simplify fixture access.
See IND Series for similar fixtures with reflectors.
*End plate doubles as coupler for continuous row mounts.
*See IND Series for similar fixtures with reflectors.

Series C
LED Medium Body Strip

FEATURES & SPECIFICATIONS
EXTENSIBLE USE
Surface mount, chain hang, double stem.
TYPICAL OPTIONS AND ACCESSORIES
Wings, Emergency battery backup (EBA), HLB-CP10, or contact factory for more details.
1. Jiffy
ETI, Dry and Pump location rating.
UL
ETL

2 ft. - STANDARD
Example: C48LF30W3900LDMV40K

4 ft. - STANDARD
Example: C48LF39W4900LDMV40K

8 ft. - STANDARD
Example: C48LF78W7800LDMV40K

Dimensions
All dimensions are inches. Specifications subject to change without notice.

4 ft. Dimensions

8 ft. Dimensions

2 ft. Dimensions

INITIAL FC CALCULATIONS	
MINIMUM:	8.3 fc
MAX/MIN:	5.6:1

1 GARAGE LIGHTING CALC - INITIAL
SCALE: 1/16" = 1'-0"

TYPE	LAMPS	WATTAGE	LUMENS	LLF	DESCRIPTION	NOTES
2A	LED	42	4576	.81	4' STRIP FIXTURE	-
2B	LED	86	9153	.81	8' STRIP FIXTURE	-

NOTES:

MAINTAINED FC CALCULATIONS	
MINIMUM:	6.8 fc
MAX/MIN:	5.6:1

2 GARAGE LIGHTING CALC - MAINTAINED
SCALE: 1/16" = 1'-0"

PRELIMINARY SET

PROPOSED PROJECT FOR:
KNOX & AMERICAN - BUILDING WEST
BLOOMINGTON, MN

GARAGE LIGHTING CALCULATIONS

DATE: 11/19/19
SHEET NO. 21087

PROJECT OFFICE
400 Peachtree Drive &
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Bloomington, MN 55425
Tel: 763-881-8877

A.C.A.
Auth Consulting associates

CORPORATE OFFICE
400 Peachtree Drive &
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Bloomington, MN 55425
Tel: 763-881-8877

BERD!
ELECTRIC LLC
3308 Southway Drive • St. Cloud, MN 56301
Phone: 320-656-0847
Fax: 320-656-0312

DRAWN BY: DJK
CHECKED BY: TJA
DATE:
DWG FILE:
REF FILE:
JOB NUMBER: 508-233-13

REVISION DESCRIPTION
NAME
DATE

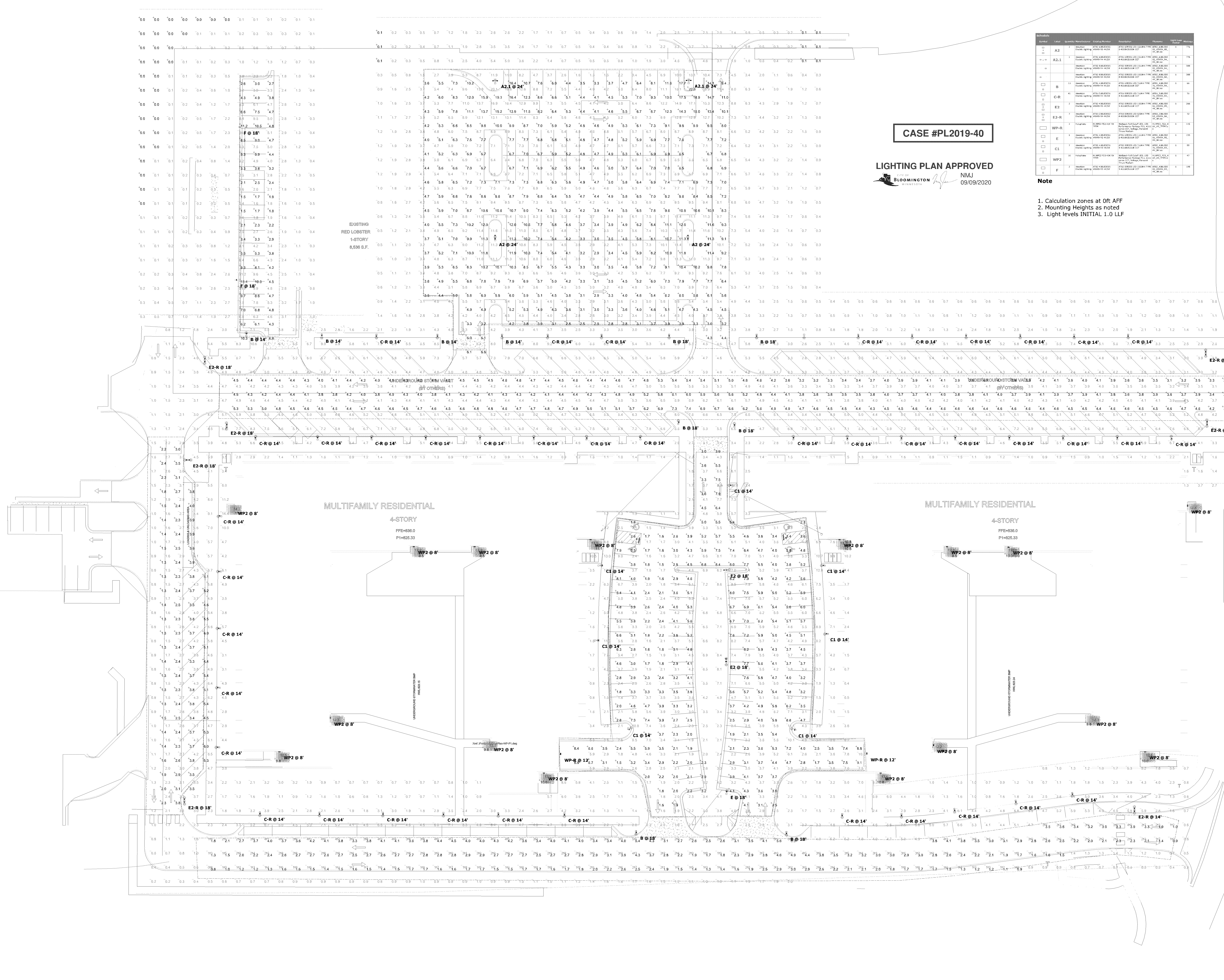
Statistics					
Description	Symbol	Avg	Max	Min	Max/Min
10 x 10 NW Corner (Red Lobster)	+	1.5 fc	11.7 fc	0.0 fc	N/A
10x10 Grid @ Off ENTIRE SITE	+	4.0 fc	20.8 fc	0.1 fc	208.0:1
E.Bldg E Crtyd Entr	+	10.9 fc	12.3 fc	9.6 fc	1.3:1
E.Bldg NE Crtyd Entrance	+	10.9 fc	12.0 fc	10.0 fc	1.2:1
E.Bldg NE Entrance	+	11.0 fc	12.4 fc	9.6 fc	1.3:1
E.Bldg NW Crtyd Entrance	+	10.8 fc	12.3 fc	9.5 fc	1.3:1
E.Bldg NE Entrance	+	12.0 fc	13.3 fc	10.8 fc	1.2:1
E.Bldg SE Entr	+	11.2 fc	12.6 fc	10.0 fc	1.3:1
E.Bldg SW Entr	+	12.2 fc	13.6 fc	10.8 fc	1.3:1
E.Bldg W Crtyd Entr	+	11.0 fc	12.2 fc	10.0 fc	1.2:1
Morgan St- 81st to 80-1/2st	+	3.0 fc	6.1 fc	1.3 fc	4.7:1
Multi-Famil Lot @ Off	+	4.3 fc	9.1 fc	1.5 fc	6.1:1
North West Lot @ Off	+	6.8 fc	19.3 fc	2.5 fc	7.7:1
Red Lobster E Parking stalls	+	5.2 fc	13.4 fc	1.5 fc	8.9:1
W 80- 1/2 St.	+	4.4 fc	7.4 fc	2.7 fc	2.7:1
W 81st St.	+	2.7 fc	6.5 fc	0.8 fc	8.1:1
W.Bldg E Crtyd Entr	+	10.9 fc	12.3 fc	9.6 fc	1.3:1
W.Bldg NE Crtyd Entrance	+	10.8 fc	12.3 fc	9.5 fc	1.3:1
W.Bldg NE Entrance	+	12.2 fc	13.5 fc	11.1 fc	1.2:1
W.Bldg NW Crtyd Entrance	+	10.8 fc	12.2 fc	9.5 fc	1.3:1
W.Bldg NW Entrance	+	13.1 fc	14.2 fc	11.7 fc	1.2:1
W.Bldg SE Entr	+	12.1 fc	13.5 fc	10.6 fc	1.3:1
W.Bldg SW Entr	+	11.1 fc	12.5 fc	9.8 fc	1.3:1
W.Bldg W Crtyd Entr	+	10.8 fc	12.3 fc	9.5 fc	1.3:1

Symbol	Level	Quantity	Mounting Height	Beam Spread	Footcandle	Notes
A3	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
A3.1	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
B	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
C-R	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
E2-R	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
WP-R	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
E	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
CL	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
WP2	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE
E	1	1	10	10	1.5	10' x 10' Grid @ Off ENTIRE SITE

- Note
1. Calculation zones at Off AFF
 2. Mounting Heights as noted
 3. Light levels INITIAL 1.0 LLF

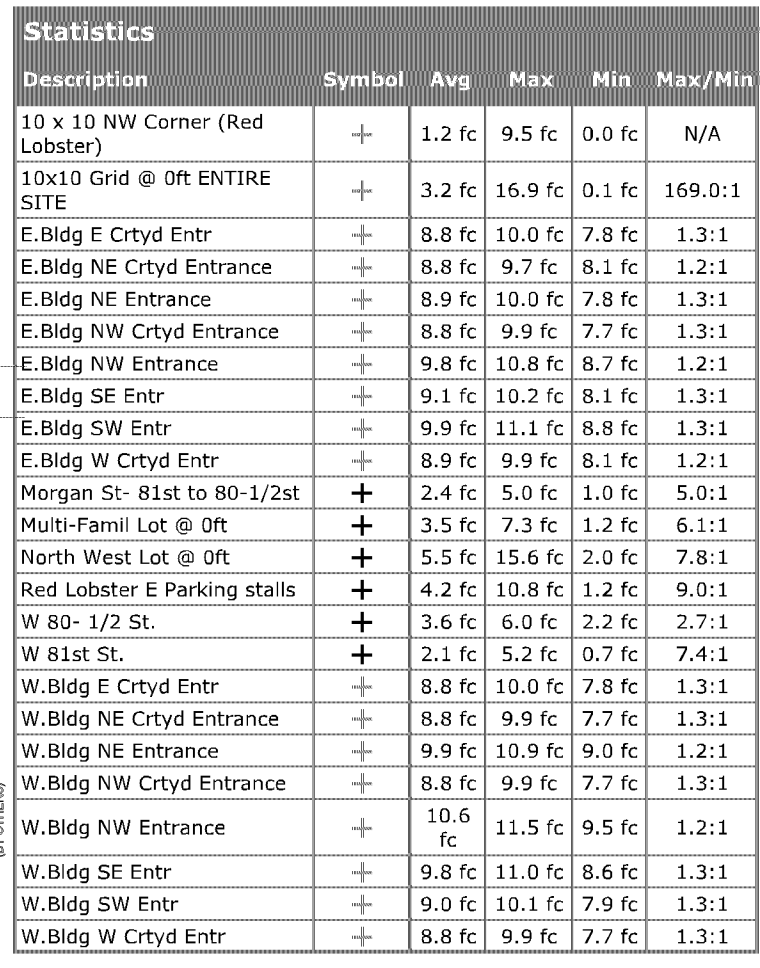
CASE #PL2019-40

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



Plan View
Scale - 1" = 30ft

Designer
Brandon Smith, LC
Date
9/8/2020
Scale
As Noted
Drawing No.
Init R6
Summary
pole moved 20ft S



Note

1. Calculation zones at 0ft AFF
2. Mounting Heights as noted
3. Light levels depreciated to 0.81 LLF

THE DISTRICT
Bloomington, MN

S STUART CO
YOUR FUTURE OUR COMMITMENT


UNITED PROPERTIES
A COMMUNITY TRUST COMPANY

Kimley»Horn

© 2012 KIMLEY-HORN AND ASSOCIATES, INC.
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BLOOMINGTON
DESIGNED BY

esc

ALAN SCHWARTZ GRANT ARCHITECTS
1212 MADISON AVENUE
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P 612.222.2222
WWW.ASGAARCHITECTS.COM

Tge District

Designer
Brandon Smith, LC
Date
9/8/2020
Scale
As Noted
Drawing No.
Maint R6
Summary
pole move 20ft S