

TOWN OF UNION LIGHTING ANALYSIS & DESIGN

3111 EAST MAIN STREET
ENDICOTT, NY 13760

DELTA PROJECT NO. 2023.298.001

2023.07.14

BID DOCUMENTS



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ARCHITECT/ENGINEER



860 Hooper Road
Endwell, New York 13760
Tel: 607.231.6600
Fax: 607.231.6650
Email: mail@delta-eas.com
www.delta-eas.com

CERTIFICATE OF AUTHORIZATION #: 019598

PROJECT LOCATION




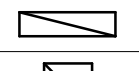
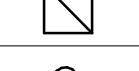


OWNER




TOWN OF UNION

G-001

ELECTRICAL ABBREVIATIONS	
'E' SERIES	ELECTRICAL DRAWINGS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AMP	AMPERAGE
AWG	AMERICAN WIRE GUAGE
BKR	BREAKER
CB	CIRCUIT BREAKER
CKT	CIRCUIT
DIA	DIAMETER
DISC	DISCONNECT
DM	DIMMER
EM	EMERGENCY BALLAST
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENC	ENCLOSURE
FA	FIRE ALARM
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID CONDUIT
J-BOX	JUNCTION BOX
LB	CONDULETTE
LV	LOW VOLTAGE
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MH	METAL HALIDE
MLO	MAIN LUG ONLY
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
OS	OCCUPANCY SENSOR
SPEC	SPECIFICATION
SR	SURFACE RACEWAY
SW	SWITCH
TSP	TWISTED, SHIELDED PAIR
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
Ø	ELECTRICAL PHASE

LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	2x4' LUMINAIRE
	1'x4' LUMINAIRE
	2x2' LUMINAIRE
	ROUND DOWNLIGHT
	CEILING OCCUPANCY SENSOR

FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	SMOKE DETECTOR ('S' = SOUNDER BASE, 'CO' = CARBON MONOXIDE + SOUNDER BASE)


LINETYPE LEGEND	
————	EXISTING TO REMAIN
-----	REMOVED EQUIPMENT/ EQUIPMENT TO BE RELOCATED
----	ITEM TO BE PROVIDED
—UE—	UNDERGROUND ELECTRIC
—UT—	UNDERGROUND TELCO
—UL—	UNDERGROUND LIGHTING
—OE—	OVERHEAD ELECTRIC
—OT—	OVERHEAD TELCO


GENERAL REMOVAL NOTES	
A.	DISCONNECT AND REMOVE ELECTRICAL EQUIPMENT SHOWN DASHED ON REMOVAL DRAWINGS, INCLUDING ASSOCIATED ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER APPURTENANCES NOT SHOWN. REMOVE ASSOCIATED BRANCH CIRCUITRY TO SOURCE, UNO.
B.	PROVIDE BLANK COVERPLATES ON UNUSED BACKBOXES REMAINING FROM REMOVALS NOT SPECIFIED TO BE INFILLED.
C.	REPLACE CEILING TILES AFFECTED BY DEVICE REMOVALS. MATCH CEILING TILES IN MATERIAL, FINISH AND COLOR.


DISPOSAL OF MERCURY CONTAINING LAMPS	
A.	ALL FLUORESCENT AND HID LAMPS REMOVED FROM DEMOLISHED LIGHT FIXTURES TO BE TREATED AS HAZARDOUS WASTE.
B.	REMOVE FLUORESCENT AND HID LAMPS FROM DEMOLISHED LIGHT FIXTURES AND DISPOSE OF PER NEW YORK STATE DEC REGULATIONS AND METHODS.
C.	LAMPS TO BE BAGGED IN NON-LEACHING PLASTIC BAGS AND SEALED TO PREVENT LEAKAGE.
D.	CLEARLY LABEL BAGS CONTAINING LAMPS WITH THE FOLLOWING: "UNIVERSAL WASTE LAMPS", "WASTE LAMPS" OR "USED LAMPS".
E.	DELIVER LABELLED BAGS CONTAINING LAMPS TO THE PROPER NEW YORK STATE DEC AUTHORIZED LANDFILL OR RECYCLING CENTER.

DISPOSAL OF PCB CONTAINING BALLASTS	
A.	CONTRACTOR TO VERIFY IF BALLASTS REMOVED FROM DEMOLISHED LIGHT FIXTURES CONTAIN PCB'S. PCB CONTAINING BALLASTS TO BE DISPOSED IN CONTAINERS FURNISHED BY THE CONTRACTOR. CONTAINERS TO BE LOCATED ONSITE IN A SECURED ROOM. CONTRACTOR TO DISPOSE OF PCB CONTAINING BALLASTS.

EQUIPMENT MOUNTING HEIGHT GENERAL NOTES		
CARD READERS	48"	TOP OF BOX
LIGHT SWITCHES	48"	TOP OF BOX
RECEPTACLES	18"	TOP OF BOX
DATA OUTLETS	18"	TOP OF BOX
TELEVISION OUTLETS	84"	TOP OF BOX
TELEPHONE OUTLETS	48"	TOP OF BOX
SAFETY SWITCHES	60"	CENTERLINE OF HANDLE
MOTOR STARTERS	60"	CENTERLINE OF HANDLE
PANELBOARDS	72"	TOP OF PANELBOARD
MANUAL PULL STATIONS	48"	OPERABLE HANDLE
NOTIFICATION APPLIANCES	80"	TOP OF LENS
DOOR HOLD OPENS		COORDINATE IN FIELD
EM LIGHTING BATTERY UNITS	96"	BOTTOM OF UNIT
EM LIGHTING REMOTE UNITS	102"	BOTTOM OF UNIT
WALL MOUNT EXIT SIGNS	96"	BOTTOM OF UNIT

TELECOMMUNICATIONS LEGEND	
SYMBOL	DESCRIPTION
	CEILING SPEAKER

SECURITY LEGEND	
SYMBOL	DESCRIPTION
	SECURITY CAMERA

WIRE LEGEND	
	CONDUIT / HOMERUN TO PANEL. #12 AWG UNLESS NOTED OTHERWISE. PROVIDE NEUTRAL CONDUCTOR UNLESS NOTED OTHERWISE. #X INDICATES WIRE SIZE OTHER THAN #12 AWG


POWER GENERAL NOTES	
A.	ELECTRICAL PLANS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO DEPICT ALL OF THE ARCHITECTURAL DETAIL OR SPECIFIC ROUTING OF CONDUITS, WIRING, ETC. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND ROUTING ONSITE WITH ACTUAL CONDITIONS.
B.	ALL EQUIPMENT AND MATERIALS TO SHOW EVIDENCE OF LISTING OR LABELING BY AN AGENCY ACCEPTABLE TO THE BUILDING CODE OF NEW YORK STATE.
C.	PROVIDE ALL NECESSARY ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS AND OTHER APPURTENANCES NOT INDICATED ON THE DRAWINGS BUT REQUIRED FOR A COMPLETE SYSTEM.
D.	INSTALL ALL BRANCH CIRCUITRY WITHIN RACEWAY UNLESS NOTED OTHERWISE. MINIMUM DIAMETER OF RACEWAY IS 3/4" IN.
E.	ALL CONDUIT TO BE SUPPORTED BY PIPE STRAPS, SUITABLE CLAMPS OR HANGERS ATTACHED TO THE BUILDING STRUCTURE. DO NOT SUPPORT CONDUIT FROM ADJOINING PIPE OR INSTALL CONDUIT IN SUCH A MANNER AS TO PREVENT THE READY REMOVAL OF OTHER EQUIPMENT FOR REPAIRS.
F.	CONDUCTORS #10 AND SMALLER TO BE SOLID COPPER TYPE XHHW, THHN OR THWN. CONDUCTORS #8 AND LARGER TO BE STRANDED COPPER TYPE XHHW, THHN OR THWN. CONDUCTORS INSTALLED IN DAMP OR WET LOCATIONS TO BE TYPE XHHW.
G.	IDENTIFY ALL CONDUCTORS AT BOTH ENDS AND WITHIN CABINETS AND JUNCTION BOXES WITH PREMARKED, SELF-ADHESIVE, WRAPAROUND TYPE LABELS.
H.	PROVIDE A SEPARATE NEUTRAL CONDUCTOR WITH EACH BRANCH CIRCUIT. SHARED NEUTRAL CONDUCTORS ARE NOT PERMITTED.
I.	GROUNDING CONDUCTORS ARE GENERALLY NOT SHOWN. GROUND AND BOND ALL EQUIPMENT, RACEWAYS, MOTORS, PANELBOARDS, SWITCHBOARDS, ETC. IN ACCORDANCE WITH NEC ARTICLE 250.
J.	CONDUIT SYSTEMS TO BE ELECTRICALLY CONTINUOUS. ALL LOCK NUTS TO CUT THROUGH ENAMELED OR PAINTED SURFACES OR ENCLOSURES, WHERE ENCLOSURES AND NON-CURRENT CARRYING METALS ARE ISOLATED FROM THE CONDUIT SYSTEM, USE BONDING JUMPERS WITH APPROVED CLAMPS. WHERE REDUCING WASHERS ARE USED AND WHERE CONCENTRIC OR ECCENTRIC KNOCKOUTS ARE NOT COMPLETELY REMOVED BONDING BUSHINGS ARE REQUIRED.
K.	LABEL ALL JUNCTION BOX COVERS INDICATING THE PANEL NAME AND CIRCUIT NUMBER CONTAINED WITHIN.

SPECIFICATIONS	
A.	GENERAL ELECTRICAL WORK: CONTRACTOR TO FAMILIARIZE THEMSELF WITH THE CONTRACT DOCUMENTS AND PERFORM ALL WORK SHOWN ON THE CONTRACT DOCUMENTS OR MENTIONED IN THESE SPECIFICATIONS. CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS, AND WORK IS TO BE DONE IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION, NATIONAL ELECTRICAL CODE, NEW YORK STATE BUILDING CODE AND THE LOCAL AUTHORITY HAVING JURISDICTION.
B.	CONDUITS: ALL CONDUIT TO BE IN ACCORDANCE WITH THE SIZES SPECIFIED AND SHOWN ON CONTRACT DOCUMENTS. CONDUIT TO BE SURFACE MOUNTED AS SHOWN IN STRAIGHT LINES, RIGHT ANGLES OR PARALLEL WITH BEAMS. CONDUIT WHICH CAN BE MOVED OR ROTATED BY MANUAL PRESSURE CAN NOT BE ACCEPTED. RIGID STEEL CONDUIT IS TO BE PROVIDED WHEN EXPOSED TO WEATHER OR FEEDERS TO PANELBOARDS. EMT MAY BE USED IN DRY LOCATIONS FOR ABOVE CONCEALED OR EXPOSED WORK.
C.	WIRES AND CABLES: ALL WIRING TO BE IN ACCORDANCE WITH SIZES SPECIFIED. ALL CONDUCTORS TO BE MADE OF COPPER OF NOT LESS THAN 98% CONDUCTIVITY. TYPE THHN IS TO BE USED FOR INDOOR FEEDERS AND BRANCH CIRCUITS, SINGLE CONDUCTOR, STRANDED COPPER, 60V INSULATION, HEAT RESISTANT THERMOPLASTIC APPROVED BY NEC FOR OPERATING TEMPERATURE OF 90-DEGREES CELSIUS AND FOR INSTALLATION IN DRY LOCATIONS. USE MC FOR LIGHT FIXTURE CONNECTIONS, 10' MAXIMUM LENGTH. COLOR CODING TO BE AS FOLLOWS: PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE, NEUTRAL - WHITE, GROUND - GREEN OR BARE.
D.	PULL AND JUNCTION BOXES: JUNCTION AND PULL BOXES ARE TO BE PROVIDED WHERE REQUIRED TO FACILITATE PULLING OF WIRES AND CABLES. ALL BOXES FOR CONCEALED WORK TO BE CONSTRUCTED OF 12-GAUGE USS GALVANIZED SHEET STEEL MINIMUM. ALL BOXES TO BE SIZED AND INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND NATIONAL ELECTRICAL SAFETY CODE.
E.	GROUNDING: THE ENTIRE ELECTRICAL SYSTEM IS TO BE MAINTAINED AT A REASONABLE GROUND LEVEL TO PROTECT AGAINST A BUILD UP OF STATIC ELECTRICAL CHARGES. ALL ELECTRICAL EQUIPMENT TO BE INDIVIDUALLY GROUNDED WITH WIRE OF APPROPRIATE SIZE. EQUIPMENT GROUND CONDUCTORS TO BE CONNECTED TO THE GROUND BUS. GROUND WIRES TO BE BARE. GROUNDING TO BE IN ACCORDANCE WITH ARTICLE 250 OF THE NEC.
F.	LIGHTING FIXTURES: ALL LIGHTING FIXTURES TO BE PROVIDED AS SHOWN ON LIGHTING FIXTURE SCHEDULE AND PLANS. THE CONTRACTOR IS TO SUBMIT FOR APPROVAL OF THE ENGINEER, MANUFACTURER'S DETAILED OUT SHEETS SHOWING ALL PHOTOMETRIC DATA. ANY FIXTURE SUBMITTED OTHER THAN THE FIXTURE SPECIFIED IS TO HAVE FULL PHOTOMETRIC DATA SHOWING CANDLEPOWER DISTRIBUTION, AVERAGE MAINTAINED FOOTCANDLE LEVEL CALCULATIONS, FIXTURES TO BE SUPPLIED WITH LEDS, DRIVERS AND MOUNTING ACCESSORIES.

LIGHT FIXTURE SCHEDULE								
TYPE	DESCRIPTION	DIMENSIONS	FINISH	MANUFACTURER	CATALOG NO.	LAMPING	WATTAGE	VOLTAGE
						TYPE		
A	2 X 4 RECESSED LED LIGHT FIXTURE WITH ACRYLIC WAVE STREAM OPTICS 0-10 V DIMMING AND POLYESTER POWDER COAT FINISH	2' X 4' RECTANGLE	WHITE	KEYSTONE	KT-CBLED45PS-24B-8CSA-VDIM	LED	45 W	120 V
B	4' SURFACE MOUNT LED STRIP FIXTURE WITH SEMI-FROSTED LENS	6'X4' RECTANGLE	WHITE	KEYSTONE	KT-MSLED44PS-4-8CSA-VDIM	LED	44 W	120 V




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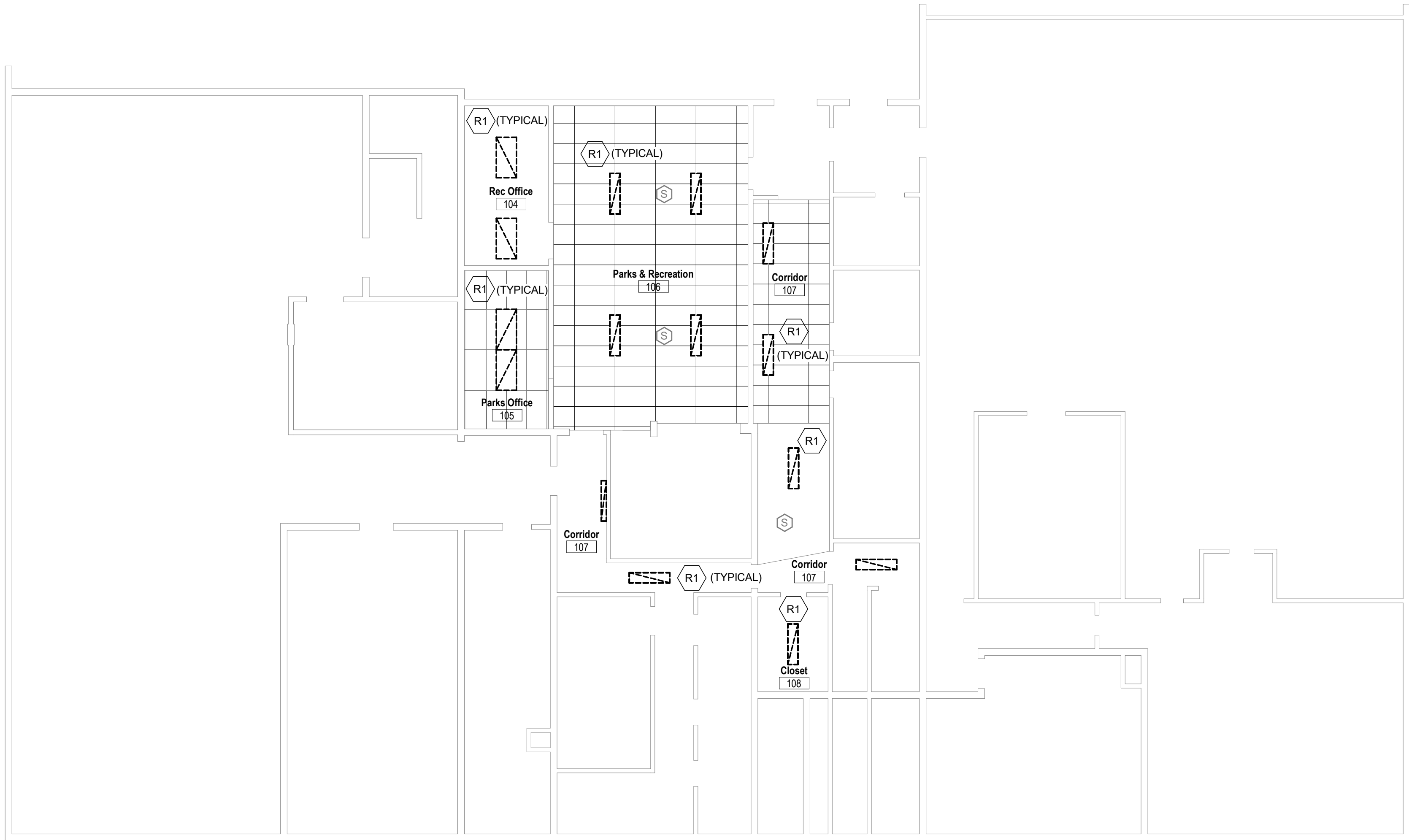
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Tel: 607.231.6600
Fax: 907.231.6650
Email: mail@delta-eas.com
www.delta-eas.com

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	Phase BID DOCUMENTS
	Project No. 2023.298.001
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Drawing Title
SCHEDULES, LEGENDS AND NOTES

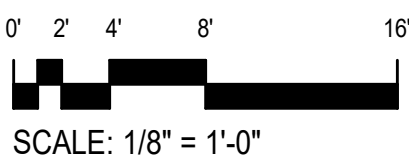
Drawing No.
E-001



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E-101

BASEMENT LIGHTING REMOVAL PLAN

SCALE: 1/8" = 1'-0"



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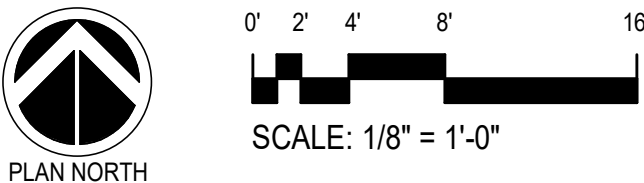
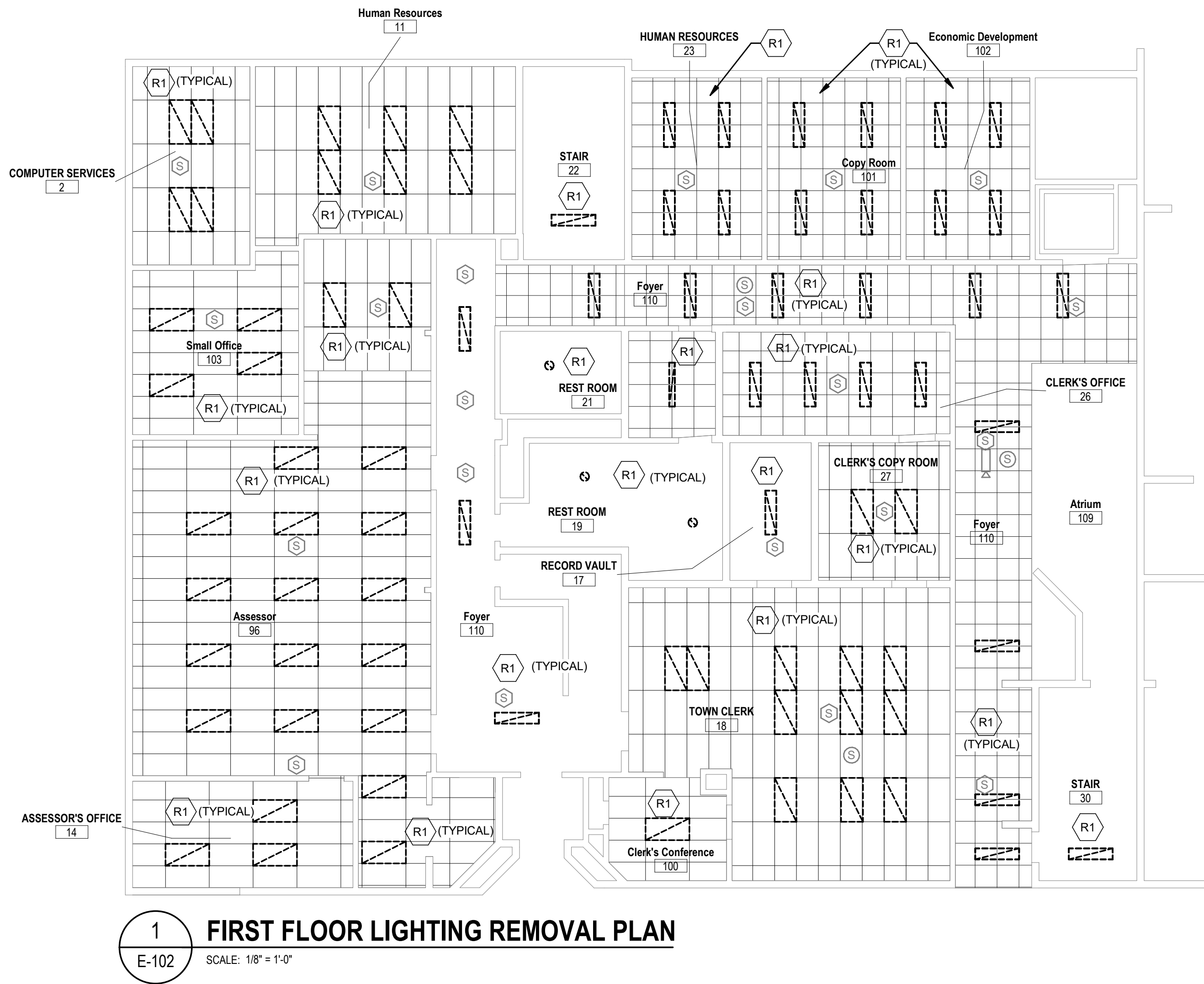
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Drawing Title
**BASEMENT LIGHTING
REMOVAL PLAN**

Drawing No.
E-101

E-102 REMOVAL KEY NOTES	
R1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, TAG AND COIL EXISTING BRANCH CIRCUIT FOR RE-USE.

GENERAL NOTES	
1.	PROVIDE REPLACEMENT CEILING TILES FOR EXISTING LOCATIONS WHERE LIGHT FIXTURES WILL NOT BE REINSTALLED OR HAVE BEEN DAMAGED. MATCH EXISTING CEILING TILES TEXTURE AND COLOR
2.	PROVIDE PATCHING AND PAINTING TO MATCH ADJACENT SURFACES AT LOCATIONS WHERE REMOVED ROUND SURFACE MOUNT FIXTURES ARE BEING REPLACED WITH RECTANGULAR SURFACE MOUNT FIXTURES.



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860 Hooper Road
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Tel: 607.231.6600
Fax: 907.231.6650

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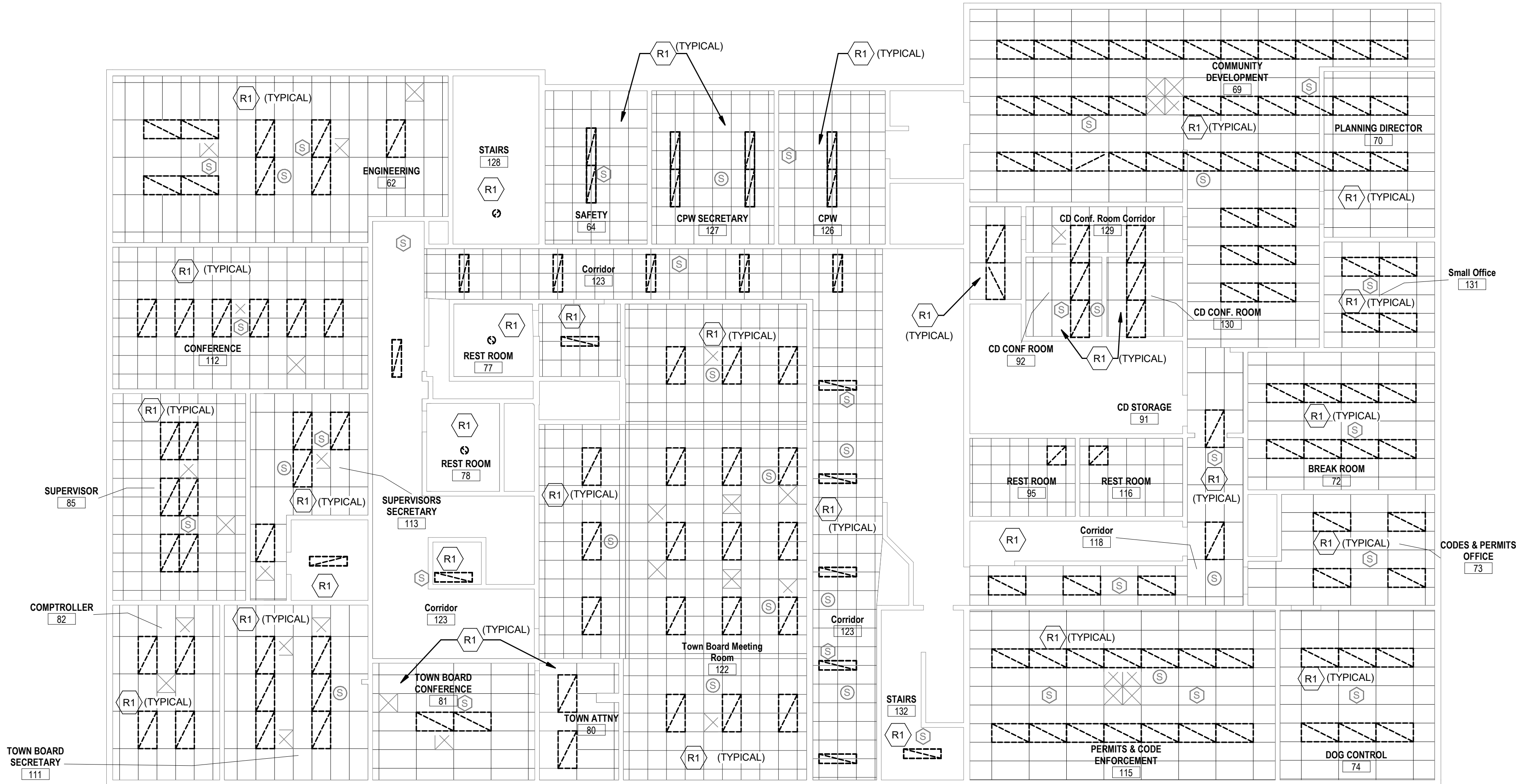
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Drawing Title
FIRST FLOOR LIGHTING
REMOVAL PLAN

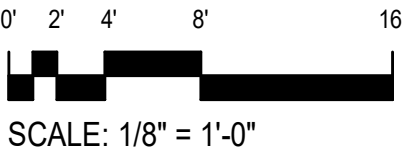
Drawing No.
E-102

E-103 REMOVAL KEY NOTES	
R1	DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE, TAG AND COIL EXISTING BRANCH CIRCUIT FOR RE-USE.

GENERAL NOTES	
1.	PROVIDE REPLACEMENT CEILING TILES FOR EXISTING LOCATIONS WHERE LIGHT FIXTURES WILL NOT BE REINSTALLED OR HAVE BEEN DAMAGED. MATCH EXISTING CEILING TILES TEXTURE AND COLOR.
2.	PROVIDE PATCHING AND PAINTING TO MATCH ADJACENT SURFACES AT LOCATIONS WHERE REMOVED ROUND SURFACE MOUNT FIXTURES ARE BEING REPLACED WITH RECTANGULAR SURFACE MOUNT FIXTURES.



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E-103
SECOND FLOOR AND EAST WING LIGHTING REMOVAL PLAN
SCALE: 1/8" = 1'-0"



No.	Revision	Date

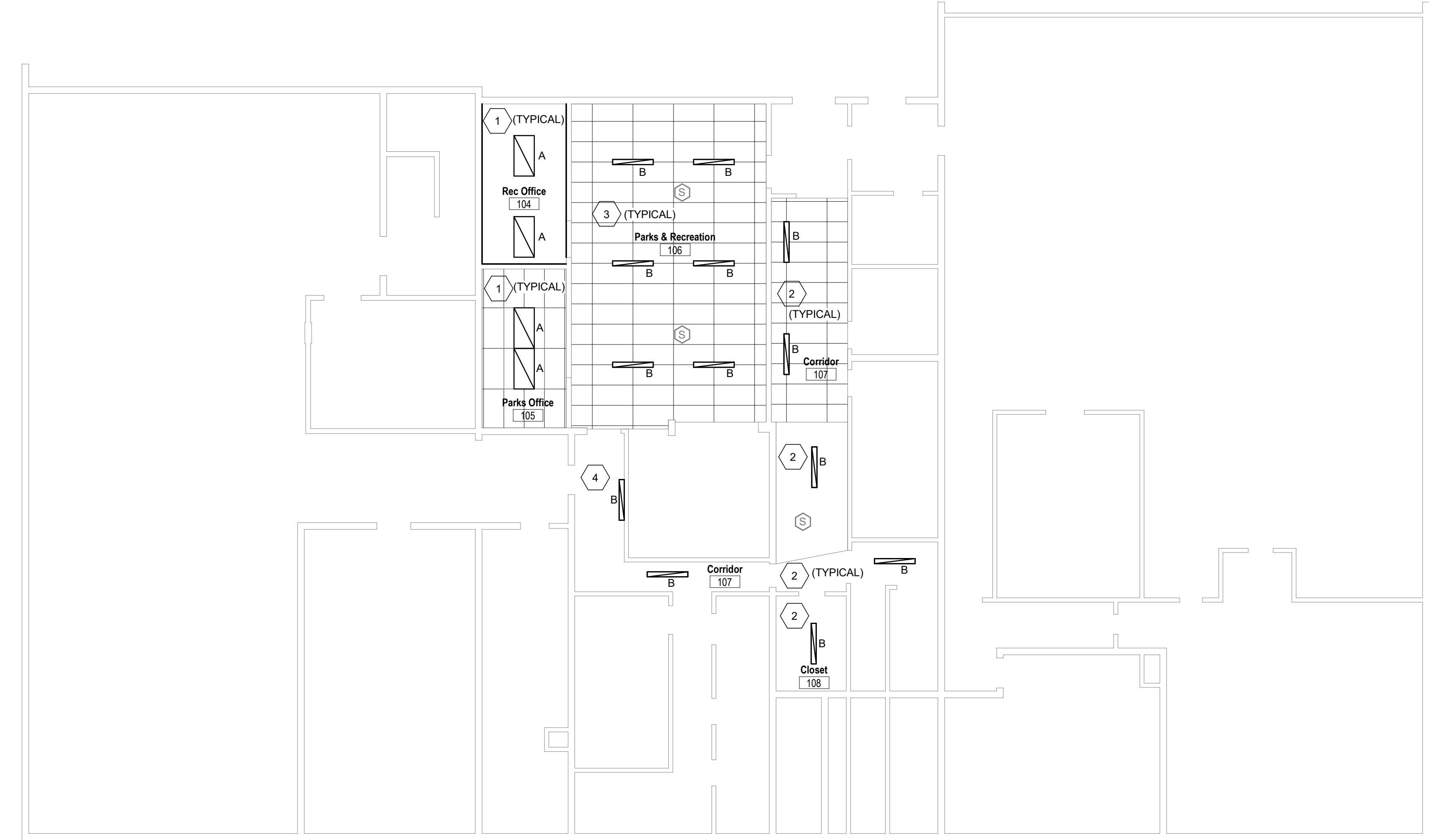
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DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS
860 Hooper Road
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Tel: 607.231.6600
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Drawing Title
SECOND FLOOR AND EAST WING LIGHTING REMOVAL PLAN

Drawing No.
E-103



1
E-104

BASEMENT LIGHTING RENOVATION PLAN

SCALE: 1/8" = 1'-0"

#	E-104 RENOVATION KEY NOTES
1	PROVIDE 2'x4' LED LIGHT FIXTURE AND INSTALL IN LOCATIONS WHERE THE EXISTING LIGHTING WAS RECESSED IN THE CEILING. EXTEND EXISTING BRANCH CIRCUIT WIRING THAT WAS TAGGED AND SAVED FROM REMOVALS TO PROPOSED LIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
2	PROVIDE 4' LED STRIP LIGHT FIXTURE AND INSTALL IN LOCATIONS WHERE THE EXISTING LIGHTING WAS SURFACE MOUNTED TO THE CEILING. EXTEND EXISTING BRANCH CIRCUIT WIRING THAT WAS TAGGED AND SAVED FROM REMOVALS TO PROPOSED LIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
3	PROVIDE SURFACE 4' LED STRIP LIGHT FIXTURE AND INSTALL AT LOCATION SHOWN. TIE INTO AND EXTEND EXISTING AREA'S LIGHTING CIRCUIT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
4	WALL MOUNT FIXTURE AT 7' AFF

GENERAL NOTES
1. PROVIDE REPLACEMENT CEILING TILES FOR EXISTING LOCATIONS WHERE LIGHT FIXTURES WILL NOT BE REINSTALLED OR HAVE BEEN DAMAGED. MATCH EXISTING CEILING TILES TEXTURE AND COLOR
2. PROVIDE PATCHING AND PAINTING TO MATCH ADJACENT SURFACES AT LOCATIONS WHERE REMOVED ROUND SURFACE MOUNT FIXTURES ARE BEING REPLACED WITH RECTANGULAR SURFACE MOUNT FIXTURES.



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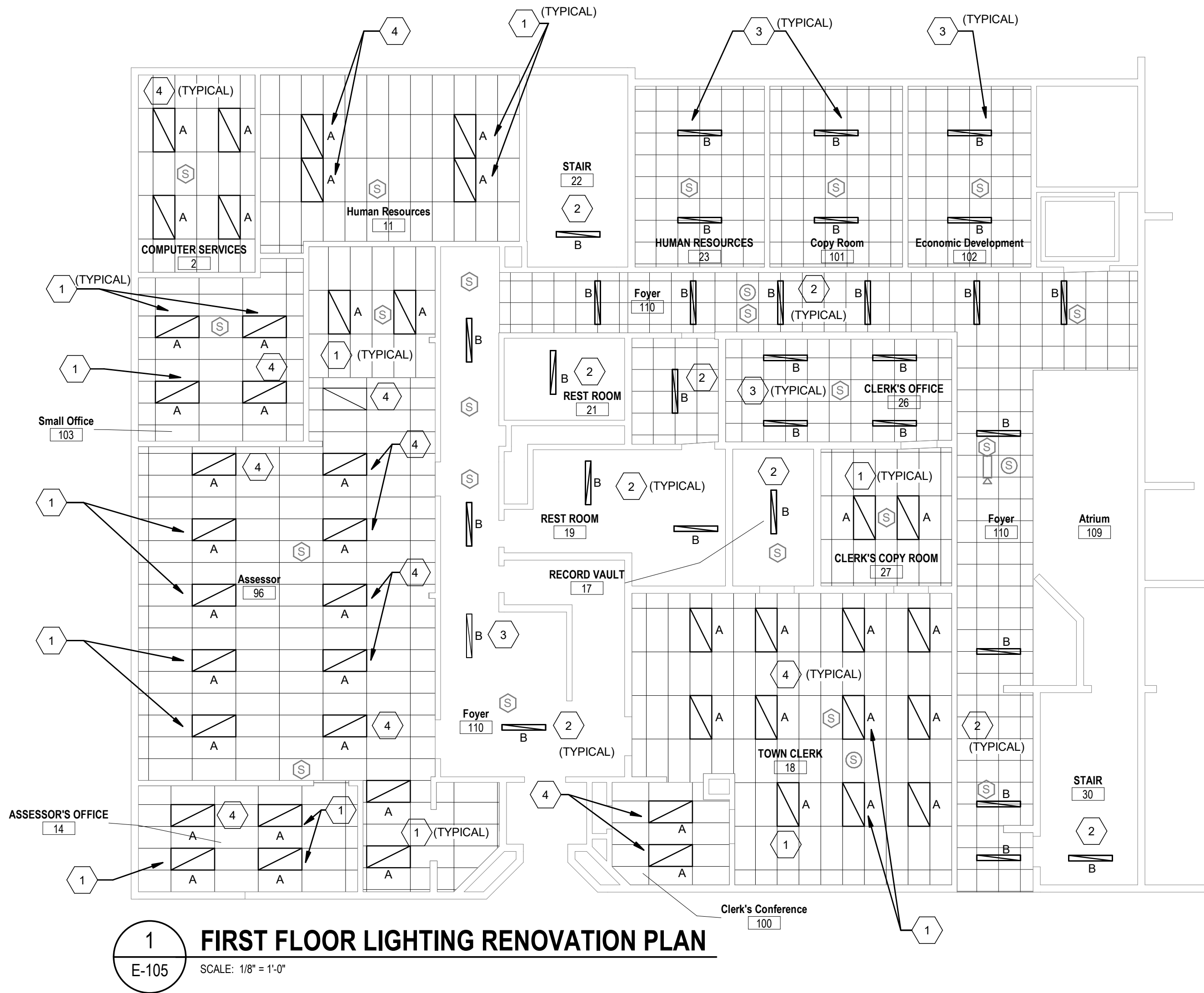
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Drawing Title
**BASEMENT LIGHTING
RENOVATION PLAN**

Drawing No.
E-104

PLAN NORTH

SCALE: 1/8" = 1'-0"



#	E-105 RENOVATION KEY NOTES
1	PROVIDE 2'x4' LED LIGHT FIXTURE AND INSTALL IN LOCATIONS WHERE THE EXISTING LIGHTING WAS RECESSED IN THE CEILING. EXTEND EXISTING BRANCH CIRCUIT WIRING THAT WAS TAGGED AND SAVED FROM REMOVALS TO PROPOSED LIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
2	PROVIDE 4' LED STRIP LIGHT FIXTURE AND INSTALL IN ALL LOCATIONS WHERE THE EXISTING LIGHTING WAS SURFACE MOUNTED TO THE CEILING. EXTEND EXISTING BRANCH CIRCUIT WIRING FROM REMOVALS TO PROPOSED LIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
3	PROVIDE SURFACE 4' LED STRIP LIGHT FIXTURE AND INSTALL AT LOCATION SHOWN. TIE INTO AND EXTEND EXISTING AREA'S LIGHTING CIRCUIT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.
4	PROVIDE 2'x4' RECESSED LIGHT FIXTURE AND INSTALL AT LOCATION SHOWN. TIE INTO AND EXTEND EXISTING AREA'S LIGHTING CIRCUIT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION.

GENERAL NOTES
1. PROVIDE REPLACEMENT CEILING TILES FOR EXISTING LOCATIONS WHERE LIGHT FIXTURES WILL NOT BE REINSTALLED OR HAVE BEEN DAMAGED. MATCH EXISTING CEILING TILES TEXTURE AND COLOR.
2. PROVIDE PATCHING AND PAINTING TO MATCH ADJACENT SURFACES AT LOCATIONS WHERE REMOVED ROUND SURFACE MOUNT FIXTURES ARE BEING REPLACED WITH RECTANGULAR SURFACE MOUNT FIXTURES.



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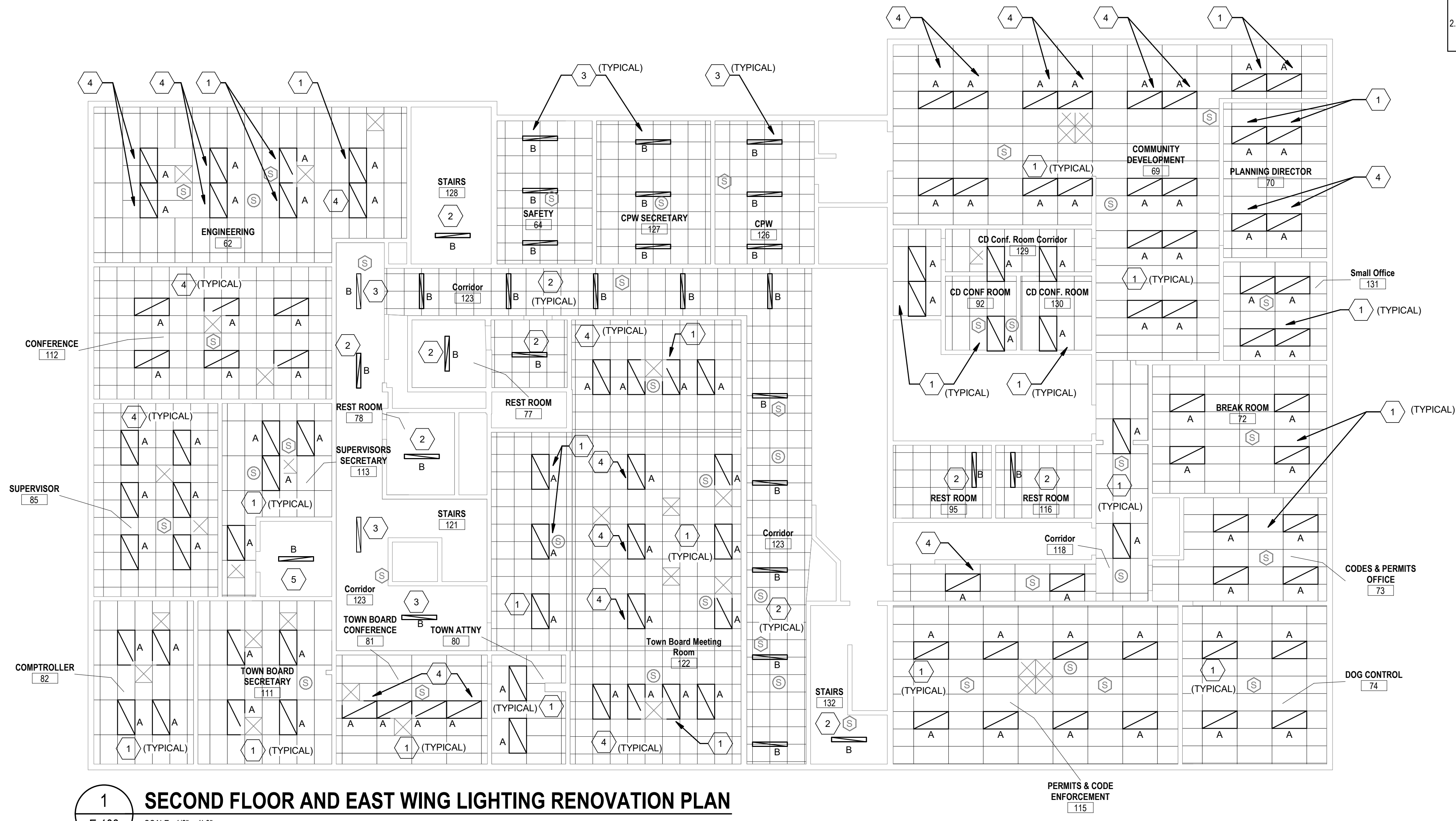
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FIRST FLOOR LIGHTING
RENOVATION PLAN

Drawing No.

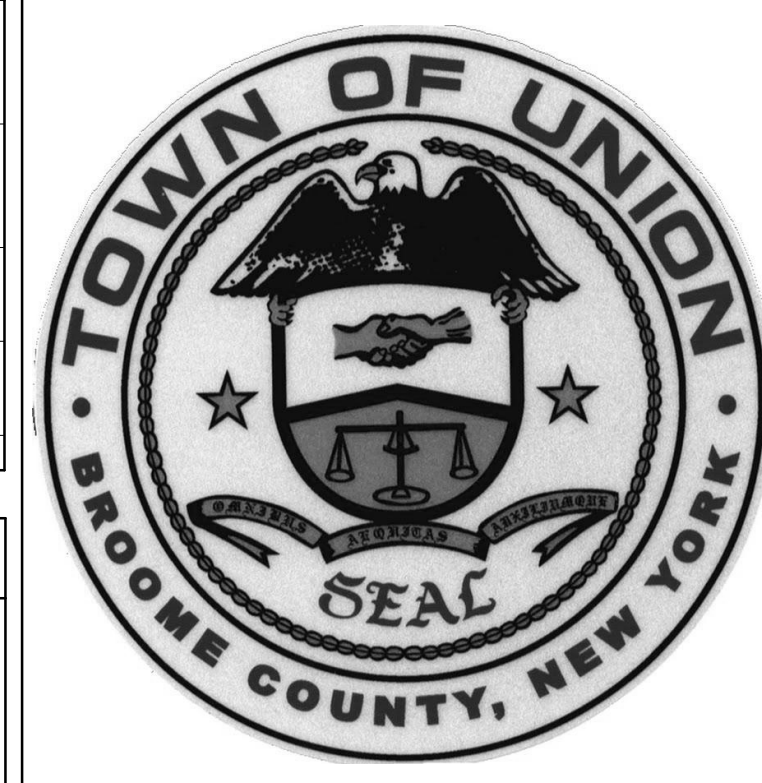
E-105



0' 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"



- | # | E-106 RENOVATION KEY NOTES |
|---|---|
| 1 | PROVIDE 2'X4' LED LIGHT FIXTURE AND INSTALL IN ALL LOCATIONS WHERE THE EXISTING LIGHTING WAS RECESSED IN THE CEILING. EXTEND EXISTING BRANCH CIRCUIT WIRING FROM REMOVALS TO PROPOSED LIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION. |
| 2 | PROVIDE 4' LED STRIP LIGHT FIXTURE AND INSTALL IN ALL LOCATIONS WHERE THE EXISTING LIGHTING WAS SURFACE MOUNTED TO THE CEILING. EXTEND EXISTING BRANCH CIRCUIT WIRING FROM REMOVALS TO PROPOSED LIGHTING. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION. |
| 3 | PROVIDE SURFACE 4' LED STRIP LIGHT FIXTURE AND INSTALL AT LOCATION SHOWN. TIE INTO AND EXTEND EXISTING AREA'S LIGHTING CIRCUIT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION. |
| 4 | PROVIDE 2'X4' RECESSED LIGHT FIXTURE AND INSTALL AT LOCATION SHOWN. TIE INTO AND EXTEND EXISTING AREA'S LIGHTING CIRCUIT. REFER TO LIGHT FIXTURE SCHEDULE FOR MORE INFORMATION. |
| 5 | PROVIDE CHAIN HUNG KIT (FOR KEYSTONE KT-MSLED44PS-4-8CSA-VDIM) |
-
- | GENERAL NOTES |
|---|
| 1. PROVIDE REPLACEMENT CEILING TILES FOR EXISTING LOCATIONS WHERE LIGHT FIXTURES WILL NOT BE REINSTALLED OR HAVE BEEN DAMAGED. MATCH EXISTING CEILING TILES TEXTURE AND COLOR. |
| 2. PROVIDE PATCHING AND PAINTING TO MATCH ADJACENT SURFACES AT LOCATIONS WHERE REMOVED ROUND SURFACE MOUNT FIXTURES ARE BEING REPLACED WITH RECTANGULAR SURFACE MOUNT FIXTURES. |



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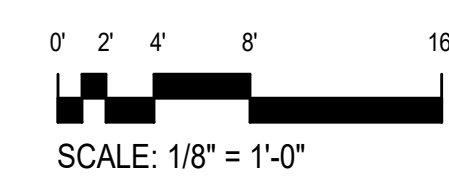
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ANALYSIS & DESIGN
3111 EAST MAIN STREET ENDICOTT, NY 13760

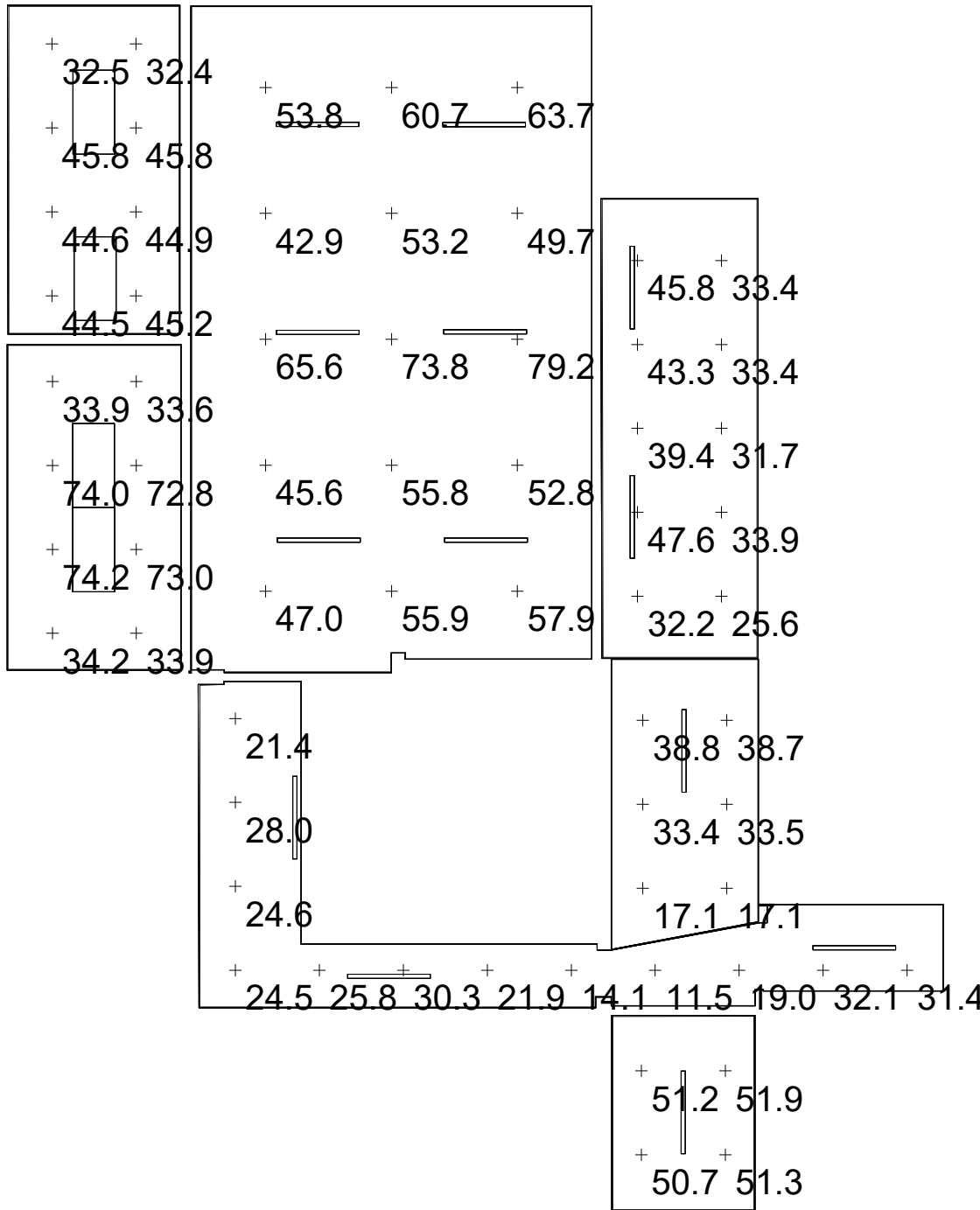
DELTA
ENGINEERS, ARCHITECTS, & SURVEYORS
860 Hooper Road
Endwell, New York 13760
Tel: 607.231.6600
Fax: 907.231.6650
Email: mail@delta-eas.com
www.delta-eas.com
CERTIFICATE OF AUTHORIZATION #: 919598

Seal 	Phase BID DOCUMENTS
	Project No. 2023.298.001
	Date 2023.07.14

Drawing Title
SECOND FLOOR AND EAST
WING LIGHTING RENOVATION
PLAN

Drawing No.
E-106





1 BASEMENT LIGHTING PHOTOMETRICS
E-501 SCALE: N.T.S.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Lower Hallway	+	23.8 fc	34.2 fc	10.3 fc	3.3:1	2.3:1
Lower Hallway Near Parks & Recreation	+	30.0 fc	44.7 fc	11.9 fc	3.8:1	2.5:1
Parks & Recreation	+	52.2 fc	91.3 fc	18.9 fc	4.8:1	2.8:1
Parks Office	+	52.7 fc	92.1 fc	24.4 fc	3.8:1	2.2:1
Rec Office	+	41.0 fc	51.2 fc	25.4 fc	2.0:1	1.6:1
Room Below Hallway	+	49.6 fc	80.6 fc	32.0 fc	2.5:1	1.6:1
Hallway Near Parks & Recreation	+	35.0 fc	47.0 fc	19.1 fc	2.5:1	1.8:1



No.	Revision	Date

Project Name
TOWN OF UNION
TOWN OF UNION LIGHTING
ANALYSIS & DESIGN
3111 EAST MAIN STREET ENDICOTT, NY 13760

DELTA

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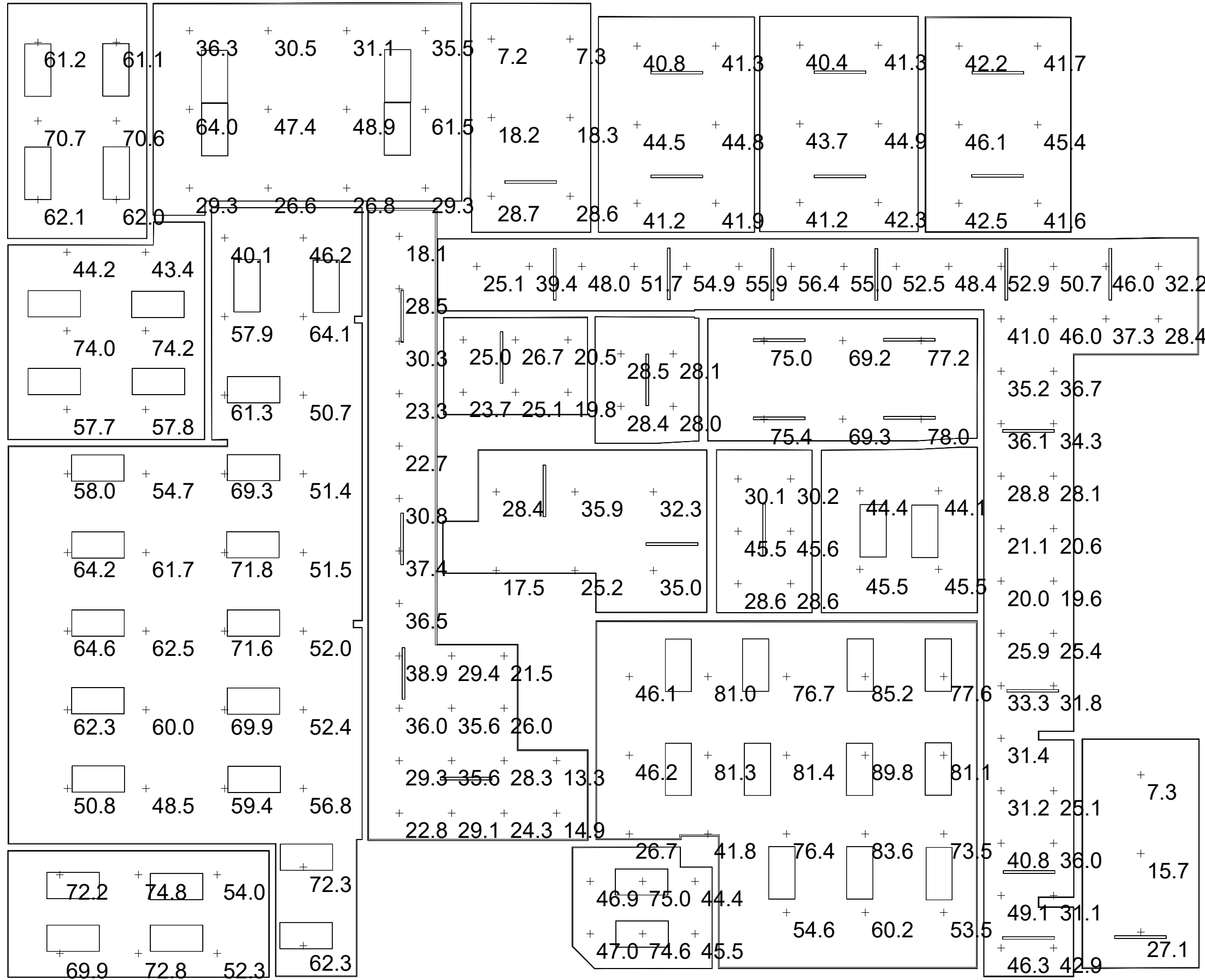
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Seal	Phase BID DOCUMENTS
	Project No. 2023.298.001
	Date 2023.07.14

Drawing Title
BASEMENT LIGHTING
PHOTOMETRICS

Drawing No.
E-501

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1 FIRST FLOOR LIGHTING PHOTOMETRICS
E-502 SCALE: N.T.S.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Assessors Office	+	63.3 fc	87.7 fc	28.9 fc	3.0:1	2.2:1
Clerks Conference	+	56.4 fc	80.2 fc	38.4 fc	2.1:1	1.5:1
Clerks Copy Room	+	43.0 fc	66.7 fc	25.3 fc	2.6:1	1.7:1
Clerks Office	+	69.9 fc	85.5 fc	47.3 fc	1.8:1	1.5:1
Computer Services	+	63.8 fc	77.0 fc	42.1 fc	1.8:1	1.5:1
Copy Room	+	43.8 fc	66.8 fc	25.0 fc	2.7:1	1.8:1
Economic Development	+	44.8 fc	68.0 fc	26.0 fc	2.6:1	1.7:1
Hallway Near Assessor	+	28.3 fc	39.7 fc	12.0 fc	3.3:1	2.4:1
Hallway Near Human Resources	+	39.3 fc	57.3 fc	16.6 fc	3.5:1	2.4:1
Human Resources	+	44.0 fc	66.9 fc	25.3 fc	2.6:1	1.7:1
Record Vault	+	33.8 fc	49.4 fc	21.6 fc	2.3:1	1.6:1
Rest Room Near Assessor	+	29.4 fc	38.1 fc	13.1 fc	2.9:1	2.2:1
Rest Room Near Stairs	+	23.7 fc	27.9 fc	18.6 fc	1.5:1	1.3:1
Room Connecting Rest Rooms	+	26.8 fc	31.4 fc	22.9 fc	1.4:1	1.2:1
Stairs	+	18.3 fc	34.8 fc	5.7 fc	6.1:1	3.2:1
Stairs Near Town Clerk	+	15.4 fc	26.7 fc	5.8 fc	4.6:1	2.7:1
Town Clerk	+	66.9 fc	91.1 fc	24.0 fc	3.8:1	2.8:1
Unnamed Room Below Computer Services	+	59.6 fc	73.2 fc	28.8 fc	2.5:1	2.1:1
Unnamed Room Next to Computer Services	+	42.7 fc	72.7 fc	20.8 fc	3.5:1	2.1:1
Assessor	+	56.3 fc	77.2 fc	25.5 fc	3.0:1	2.2:1



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ANALYSIS & DESIGN
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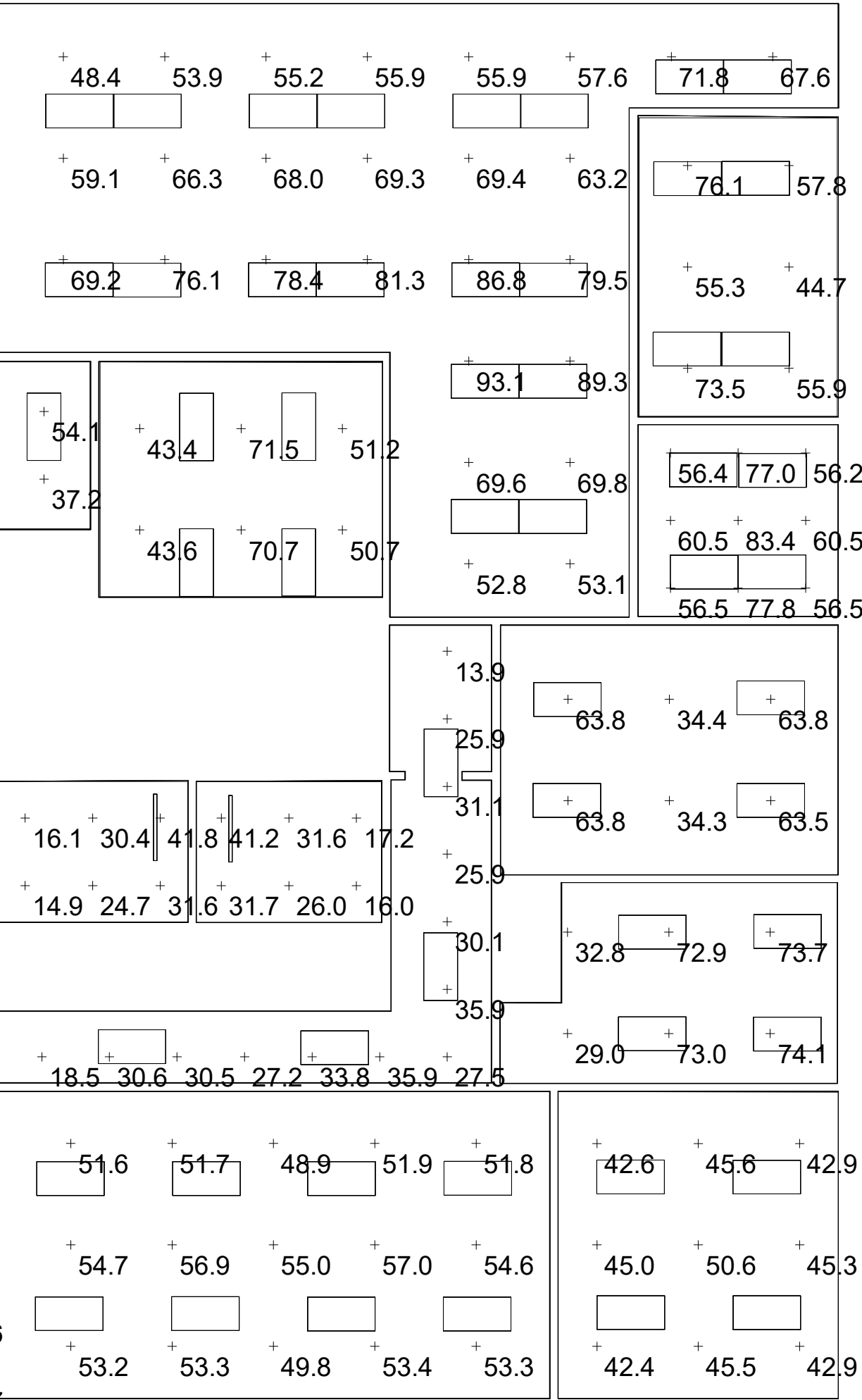
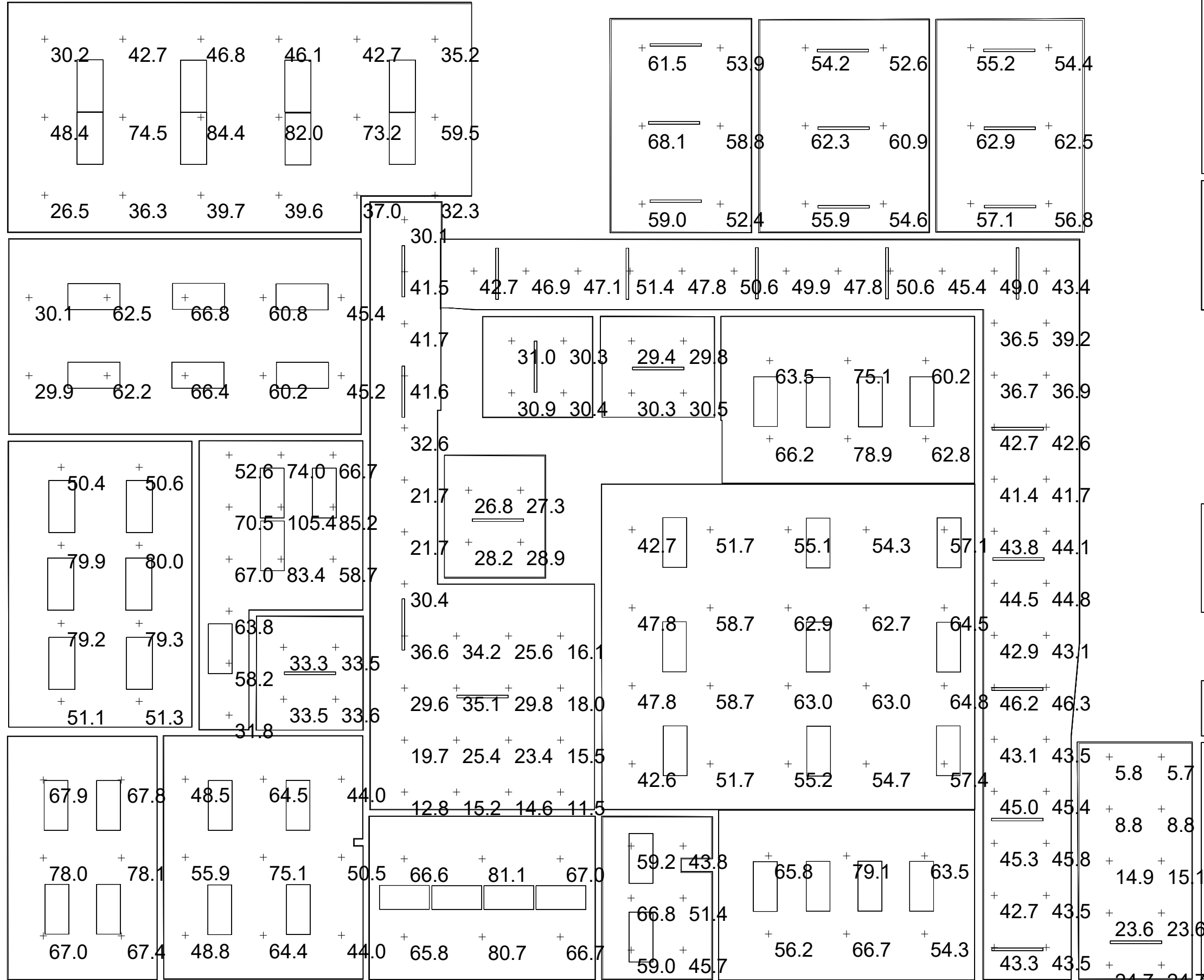
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Seal	Phase BID DOCUMENTS
	Project No. 2023.298.001
	Date 2023.07.14

Drawing Title
FIRST FLOOR LIGHTING
PHOTOMETRICS

Drawing No.
E-502





Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CD Conf. Rooms	+	55.6 fc	74.3 fc	29.3 fc	2.5:1	1.9:1
Codes & Permits Office	+	57.7 fc	74.7 fc	12.7 fc	5.9:1	4.5:1
Community Development	+	63.8 fc	108.6 fc	26.2 fc	4.1:1	2.4:1
Comptroller	+	68.6 fc	90.0 fc	43.9 fc	2.1:1	1.6:1
Conference	+	50.6 fc	70.5 fc	21.6 fc	3.3:1	2.3:1
CPW	+	57.5 fc	77.0 fc	38.0 fc	2.0:1	1.5:1
CPW Secretary	+	56.1 fc	76.4 fc	35.9 fc	2.1:1	1.6:1
Dog Control	+	46.2 fc	61.0 fc	27.4 fc	2.2:1	1.7:1
Engineering	+	48.9 fc	84.4 fc	17.8 fc	4.7:1	2.7:1
Hallway Near Codes & Permits Office	+	26.3 fc	37.8 fc	11.1 fc	3.4:1	2.4:1
Hallway Near Conference	+	26.0 fc	42.4 fc	9.9 fc	4.3:1	2.6:1
Hallway Near CPW	+	43.9 fc	51.1 fc	32.3 fc	1.6:1	1.4:1
Historian/Safety	+	61.8 fc	79.6 fc	42.3 fc	1.9:1	1.5:1
Left Side of Rest Room Near CPW	+	30.1 fc	33.5 fc	26.9 fc	1.2:1	1.1:1
Office Below Planning Director	+	63.7 fc	82.7 fc	43.5 fc	1.9:1	1.5:1
Permits & Code Enforcement	+	51.1 fc	67.3 fc	28.3 fc	2.4:1	1.8:1
Planning Director	+	57.2 fc	82.7 fc	32.4 fc	2.6:1	1.8:1
Rest Room in Hallway Near Codes & Permits Office	+	26.0 fc	41.7 fc	12.8 fc	3.3:1	2.0:1
Rest Room Near CPW	+	29.5 fc	32.9 fc	26.0 fc	1.3:1	1.1:1
Rest Room Near Supervisors Secretary	+	26.5 fc	30.7 fc	22.2 fc	1.4:1	1.2:1
Rest Room Next to CD Storage	+	27.4 fc	41.6 fc	15.2 fc	2.7:1	1.8:1
Small Closet in Supervisor's Secretary	+	32.8 fc	37.5 fc	28.7 fc	1.3:1	1.1:1
Stairs Near Town Board Meeting Room	+	15.5 fc	27.1 fc	5.4 fc	5.0:1	2.9:1
Supervisor	+	63.2 fc	87.3 fc	34.7 fc	2.5:1	1.8:1
Supervisors Secretary	+	67.8 fc	105.0 fc	29.5 fc	3.6:1	2.3:1
Town Attny	+	53.6 fc	67.4 fc	30.8 fc	2.2:1	1.7:1
Town Board Conference	+	69.5 fc	99.3 fc	42.9 fc	2.3:1	1.6:1
Town Board Meeting Room Bottom	+	57.3 fc	87.7 fc	30.6 fc	2.9:1	1.9:1
Town Board Meeting Room Center	+	55.8 fc	69.8 fc	33.8 fc	2.1:1	1.7:1
Town Board Meeting Room Top	+	63.5 fc	94.1 fc	35.9 fc	2.6:1	1.8:1
Town Board Secretary	+	56.7 fc	76.5 fc	31.4 fc	2.4:1	1.8:1
Unnamed Room Adjacent to CD Conf. Rooms	+	37.3 fc	54.1 fc	20.9 fc	2.6:1	1.8:1
Break Room	+	45.7 fc	63.1 fc	28.5 fc	2.2:1	1.6:1

1 SECOND FLOOR AND EAST WING LIGHTING PHOTOMETRICS
E-503 SCALE: N.T.S.



No.	Revision	Date
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Project Name
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TOWN OF UNION LIGHTING
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Drawing Title
SECOND FLOOR AND EAST
WING LIGHTING
PHOTOMETRICS

Drawing No.
E-503

