

GENERAL NOTES		LIGHTING		SWITCHING & CONTROLS	
<div>1. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING LIGHTING SYSTEM.</div> <div>2. THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR(S), AND LOW VOLTAGE CONTRACTOR(S) SHALL REFER TO THE LIGHTING PLANS, SCHEDULES, AND DETAILS HEREIN, INCLUDING ANY ATTACHED LIGHTING SPECIFICATIONS AND PRODUCT CUTSHEETS FOR ADDITIONAL INFORMATION.</div> <div>3. THE CONTRACTOR SHALL LAY OUT ALL LIGHT FIXTURE LOCATIONS AND TRANSFORMER LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY ALPENGLOW LIGHTING DESIGN, INC., ARCHITECT, INTERIOR DESIGNER, ENGINEER(S), AND OWNER.</div> <div>4. MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.</div> <div>5. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY UL., ETL, GSA OR ANOTHER RECOGNIZED TESTING LAB.</div> <div>6. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.</div> <div>7. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES AND UTILITY COMPANIES ANY SHOP DRAWINGS AS REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.</div> <div>8. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT, OWNER, AND LIGHTING DESIGNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.</div> <div>9. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING AND STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.</div> <div>10. ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.</div> <div>11. ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT, ENGINEER, OR THEIR REPRESENTATIVE.</div> <div>12. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.</div> <div>13. EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT, AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS.</div> <div>14. COMMERCIAL APPLICATIONS: THE CONTRACTOR MAY PROVIDE COMPLETE METAL RACEWAY SYSTEMS AND ENCLOSURES FOR ALL WIRING THROUGHOUT THE EXTENT OF THE REQUIRED SYSTEM. RESIDENTIAL APPLICATIONS MAY USE NON METALLIC WIRE (ROMEX).</div> <div>15. MC CABLE MAY BE USED FOR ALL BRANCH CIRCUITING. MC CABLE SHALL NOT ENTER INTO PANELBOARDS. ELECTRICAL CONTRACTOR SHALL UTILIZE EMT OUT OF THE PANELBOARD INTO A FULL BOX, GUTTER, OR SIMILAR DEVICE, AND THEN RUN MC CABLE FOR THE REMAINDER OF BRANCH CIRCUITING RUN. MINIMUM RACEWAY SIZE SHALL BE 1/2" UNLESS OTHERWISE INDICATED. MC CABLE MAY ONLY BE USED IN CONCEALED LOCATIONS.</div> <div>16. FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 3/4" MINIMUM.</div> <div>17. ALL NEW CIRCUITS SHALL HAVE A GROUND WIRE INSTALLED.</div> <div>18. ALL WIRE NOT INSTALLED IN CONDUIT AND IN THE CEILING SHALL BE PLENUM RATED.</div> <div>19. REMOTE POWER SUPPLIES AND TRANSFORMERS SHALL BE CONCEALED IN ATTICS, CRAWL SPACES, OR SIMILAR ACCESSIBLE LOCATIONS. MAXIMUM WIRE RUN TO THE END OF THE FIXTURE SHALL NOT EXCEED 75 FEET.</div> <div>20. IN SUSPENDED CEILINGS, SUPPORT CONDUIT AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS THE CEILING HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE.</div> <div>21. SHOULD ACTUAL FIELD CONDITIONS REQUIRE INDICATED CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE AS-BUILT DRAWINGS.</div> <div>22. ALL FACE PLATE AND DEVICE COLORS SHALL BE APPROVED BY ARCHITECT, INTERIOR DESIGNER, AND OWNER.</div> <div>23. ALL BATTERY BACKUP EMERGENCY LIGHTING AND EXIT LIGHTS SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING, UNLESS OTHERWISE NOTED.</div> <div>24. THE CONTRACTOR SHALL VERIFY THE CEILING TYPE BEFORE ORDERING LIGHTING FIXTURES.</div> <div>25. THE CONTRACTOR IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL FIRE-RATED PENETRATION INSTALLATION REQUIREMENTS.</div> <div>26. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY FIXTURES WITHIN A FIRE RATED CEILING OR WALL. FIRE RATING MUST BE MAINTAINED FOR THIS TYPE OF INSTALLATION WITH DRYWALL TENTING OR LISTED FIREBOX ASSEMBLY.</div> <div>27. BIDS SHALL HAVE LINE-ITEM PRICING. BIDS WHICH SHOW LOT PRICING FOR LIGHTING FIXTURES AND/OR LIGHTING CONTROLS SHALL BE REJECTED WITHOUT CONSIDERATION. BIDDER SHALL HAVE FIVE (5) BUSINESS DAYS TO RESUBMIT LINE-ITEM PRICING. AFTER FIVE (5) BUSINESS DAYS, BID SHALL BE CONSIDERED TO BE NULL AND VOID AND WILL BE REJECTED. BIDDERS WARRANT THEIR COMPLIANCE WITH THE ROBINSON-PATMAN AND CLAYTON ACTS.</div> <div>28. SUBMIT PRODUCT DATA DESCRIBING FIXTURES, LAMPS, BALLASTS, AND EMERGENCY LIGHTING UNITS WITHIN 30 DAYS OF DIRECTION TO PROCEED FROM THE OWNER. ALL NOTATIONS SHALL BE .PDF FORMAT OR LASER PRINTED. ARRANGE PRODUCT DATA FOR FIXTURES IN ORDER OF FIXTURE DESIGNATION. AFTER 30 DAYS, A MINIMUM OF EIGHT HOURS OF PROFESSIONAL TIME TO CONSIDER ANY SUBMITTAL SHALL BE PAID FOR BY THE CONTRACTOR. SUCH PAYMENT DOES NOT GUARANTEE APPROVAL. COSTS INCURRED TO THE PROJECT DUE TO PROBLEMS ARISING FROM LATE SUBMITTALS ARE TO BE PAID BY THE CONTRACTOR. TWO (2) RESUBMITTALS SHALL BE ALLOWED PER PROJECT. AFTER TWO (2) RESUBMITTALS, A MINIMUM OF EIGHT HOURS OF PROFESSIONAL TIME TO CONSIDER ANY RESUBMITTALS SHALL BE PAID FOR BY THE CONTRACTOR. SUCH PAYMENT DOES NOT GUARANTEE APPROVAL. COSTS INCURRED TO THE PROJECT DUE TO PROBLEMS ARISING FROM MULTIPLE RESUBMITTALS ARE TO BE PAID FOR BY THE CONTRACTOR.</div> <div>29. THE EXPRESSION "...OR AS APPROVED" OR "...OR APPROVED EQUAL" OR "...OR EQUAL" MEANS THAT COMPETING PRODUCTS OF A SIMILAR NATURE ARE THOUGHT TO EXIST. THE CONTRACTOR IS ENCOURAGED TO PROPOSE SUBSTITUTION REQUESTS OF SUCH EQUIVALENT PRODUCTS AS LONG AS THE PRODUCT CONFORMS TO ALL PARTS OF THIS SPECIFICATION. WHERE THE ABOVE NOTED EXPRESSIONS ARE OMITTED OR EXPRESSION SUCH AS "NO SUBSTITUTIONS" APPEARS THE CONTRACTOR SHALL PROVIDE ONLY THE PRODUCT INDICATED.</div> <div>30. SUBSTITUTION REQUESTS AND VALUE ENGINEERING RECOMMENDATIONS FROM THE CONTRACTOR WILL BE CONSIDERED IF SUBMITTED WITHIN 30 DAYS OF DIRECTION TO PROCEED FROM THE OWNER. EACH LUMINAIRE SUBSTITUTION REQUEST SHALL INDICATE THE ESTIMATED OR POTENTIAL SAVINGS TO THE OWNER FOR THAT LUMINAIRE FROM THE SPECIFIED DESIGN. THE PROFESSIONAL TIME TO CONSIDER ANY SUBSTITUTION REQUEST OR V.E. REQUEST SHALL BE PAID FOR BY THE</div>		<div>CONTRACTOR, AT A MINIMUM OF EIGHT HOURS. SUCH PAYMENT DOES NOT GUARANTEE APPROVAL. AFTER 30 DAYS, A MINIMUM OF EIGHT HOURS OF PROFESSIONAL TIME TO CONSIDER ANY SUCH REQUEST SHALL BE PAID FOR BY THE CONTRACTOR. SUBMITTAL OF ANY SUBSTITUTION REQUEST OR VALUE ENGINEERING RECOMMENDATION SHALL NOT BE CONSTRUED AS APPROVAL IN ANY WAY. THE OWNER, ARCHITECT AND LIGHTING DESIGNER RESERVE THE RIGHT TO REJECT ANY SUBSTITUTION OR VALUE ENGINEERING RECOMMENDATION WITHOUT EXPLANATION.</div> <div>31. CONTRACTOR MAY BE REQUIRED TO PROVIDE TABLE TOP SAMPLES AND/OR A FAIR MOCKUP OF SPECIFIED FIXTURE AND PROPOSED ALTERNATE. THIS REQUIREMENT SHALL BE EXERCISED AT THE OPTION OF OWNER, ARCHITECT, OR LIGHTING DESIGNER. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL COSTS INCURRED BY SUBSTITUTION REQUEST SAMPLE AND/OR MOCKUP PRODUCTION AND REVIEW INCLUDING PROFESSIONAL TIME AND TRAVEL EXPENSES.</div> <div>32. SUBSTITUTIONS OR VALUE ENGINEERING RECOMMENDATIONS SHALL ACCOMMODATE THE IMPACT ON OTHER SPECIFIED SYSTEMS OR PRODUCTS, SUCH AS BALLASTS, DRIVERS, AND DIMMING SYSTEMS. THE LIGHTING SYSTEMS ARE DESIGNED AS COMPLETE AND IT IS THE CONTRACTOR'S RESPONSIBILITY FOR ANY IMPACTS OF ANY CHANGE RECOMMENDED. CONTRACTOR SHALL SUBMIT PRODUCTS WHICH RESULT IN A FULLY FUNCTIONING LIGHTING SYSTEM WHICH OPERATES AS ORIGINALLY DESIGNED.</div> <div>33. SUBSTITUTION REQUESTS AND VALUE ENGINEERING RECOMMENDATIONS SHALL BE DESCRIBED ON CSI STANDARD FORMS AND SHALL INCLUDE PRODUCT CUTSHEET. PRODUCTS SUBMITTED WITHOUT PROPER CSI FORMS SHALL NOT BE APPROVED.</div> <div>34. WHEN REQUESTING A SUBSTITUTION, CONTRACTOR SHALL PROVIDE UNIT AND EXTENDED PRICING FOR SPECIFIED LIGHT FIXTURE, UNIT AND EXTENDED PRICING FOR PROPOSED ALTERNATE, AND UNIT AND EXTENDED DELTA SAVINGS TO OWNER TO BE REALIZED BY USING PROPOSED ALTERNATE. CONTRACTOR SHALL PROVIDE UNIT PRICING FOR EACH FIXTURE TYPE SPECIFIED TO PROVIDE BASELINE COMPARISON FOR SUBSTITUTION REQUEST. CONTRACTOR SHALL GUARANTEE PRICING ON ALL FIXTURE TYPES FOR WHICH A SUBSTITUTION REQUEST HAS BEEN GRANTED. THIS PRICE GUARANTEE SHALL BE PER UNIT AND SHALL BE MAINTAINED THROUGH THE END OF CONSTRUCTION REGARDLESS OF QUANTITY PURCHASED. LIGHTING FIXTURE SUBSTITUTION REQUESTS FOR PRODUCTS USED AS EGRESS OR EMERGENCY LIGHTING SYSTEMS OR EXTERIOR SITE AND ROADWAY LIGHTING SHALL INCLUDE LIGHTING CALCULATION DATA DEMONSTRATING COMPLIANCE WITH RELEVANT CODES AND ORDINANCES. PROVIDE HARDCOPY CALCULATIONS AND DATAFILE IN DIALUX (.evo) FORMAT. SUBSTITUTION REQUESTS WITHOUT SUCH DATA WILL BE REJECTED WITHOUT CONSIDERATION. VE REVIEW TIME SHALL BE PAID FOR BY THE CONTRACTOR.</div> <div>35. EQUIPMENT DELIVERY LEAD-TIME SHALL NOT BE HELD AS A VALID REASON FOR REQUESTING FIXTURE SUBSTITUTION UNLESS FIXTURE LEAD-TIME FROM SPECIFIED MANUFACTURER IS IN EXCESS OF 14 WEEKS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE NECESSARY EQUIPMENT LEAD TIMES, DELIVER SUBMITTALS FOR REVIEW IN A TIMELY FASHION, AND PLACE ORDERS ACCORDINGLY TO ENSURE TIMELY DELIVERY.</div> <div>36. CONTRACTOR SHALL ADJUST AIMABLE LUMINARIES AS DIRECTED BY LIGHTING DESIGNER. CONTRACTOR SHALL PROVIDE MANPOWER AND EQUIPMENT, INCLUDING LADDERS, LIFTS, TOOLS, ETC., AND ALLOW FOR THIS ACTIVITY TO OCCUR DURING PREMIUM NIGHT AND/OR WEEKEND TIME. CONTRACTOR SHALL INCLUDE A MINIMUM OF 20 HOURS IN HIS BID FOR THIS EFFORT.</div> <div>37. THE GENERAL CONTRACTOR, ELECTRICAL CONTRACTOR(S), AND LOW VOLTAGE CONTRACTOR(S) SHALL ASK QUESTIONS VIA TELEPHONE, EMAIL, OR WRITTEN CORRESPONDENCE PRIOR TO MAKING A COMPLETE MESS OF THINGS. CONTRACTORS WHO FAIL TO ASK QUESTIONS SHALL BE FED TO THE RAVENOUS BUGBLATTER BEAST OF TRAAL.</div> <div>38. THE GENERAL CONTRACTOR SHALL CONFIRM THAT ALL BIDDERS AND SUBCONTRACTORS HAVE READ THE PRECEDING THIRTY-EIGHT NOTES BY SUBMITTING A SCAN OR PHOTOGRAPH OF THIS NOTE, SIGNED BY THE BIDDER(S). BIDDERS WHO FAIL TO SUBMIT THIS NOTE SHALL HAVE THEIR BIDS REJECTED WITHOUT CONSIDERATION.</div> <div>39. THE GENERAL CONTRACTOR SHALL PROVIDE A MINIMUM OF TWELVE (12) PERFORATED PASTRY UNITS AND COFFEE AT ALL CONSTRUCTION MEETINGS. DECAFFEINATED COFFEE SHALL BE REJECTED WITHOUT CONSIDERATION. THE CONTRACTOR SHALL PROTECT THE CONSTRUCTION DOCUMENTS FROM DIRECT CONTACT WITH THE PERFORATED PASTRY UNITS.</div>	<div>SYMBOL</div> <div></div> <div>RECESSED LENSED TROFFER (SIZE/SHAPE VARIES)</div> <div></div> <div>RECESSED PARABOLIC TROFFER (SIZE/SHAPE VARIES)</div> <div></div> <div>SURFACE LENSED LUMINAIRE (SIZE/SHAPE VARIES)</div> <div></div> <div>SURFACE PARABOLIC TROFFER (SIZE/SHAPE VARIES)</div> <div></div> <div>SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED</div> <div></div> <div>SUSPENDED LINEAR PENDANT (SIZE/SHAPE VARIES)</div> <div></div> <div>NON LINEAR PENDANT (SIZE, SHAPE VARIES)</div> <div></div> <div>DOWNLIGHT OR POINT SOURCE - SURFACE, RECESSED CEILING MTD.</div> <div></div> <div>DIRECTIONAL OR WALLWASH - SURFACE, RECESSED CEILING MTD.</div> <div></div> <div>RECESSED BATH FAN OR FAN/LIGHT</div> <div></div> <div>SURFACE OR PENDANT CEILING FAN - PROVIDE APPROPRIATE BRACED JUNCTION BOX</div> <div></div> <div>LINEAR LOW VOLTAGE COVE OR UNDERCABINET</div> <div></div> <div>TRACK OR LOW VOLTAGE LIGHTING WITH HEADS</div> <div></div> <div>STRIPLIGHT</div> <div></div> <div>STRIPLIGHT WITH REFLECTOR OR LENS</div> <div></div> <div>SCONCE, "FOOT" INDICATES WALL MOUNTING. VERIFY HEIGHT WITH ARCHITECT, INTERIOR DESIGNER.</div> <div></div> <div>WALL MOUNTED LINEAR (SIZES VARY)</div> <div></div> <div>RECESSED STEPLIGHT</div> <div></div> <div>BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.</div> <div></div> <div>ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN</div> <div></div> <div>FLOOR OR GRADE MOUNTED BOLLARD</div> <div></div> <div>FLUSH GRADE POINT SOURCE</div> <div></div> <div>POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD ARROW INDICATES OPTICAL ORIENTATION</div> <div></div> <div>POLE TOP MOUNTED LUMINAIRE</div> <div></div> <div>L# 1071</div> <div></div> <div>D# 1071 1071DC</div> <div></div> <div>X# 1071</div>	<div>SYMBOL</div> <div></div> <div>S_a</div> <div></div> <div>S²</div> <div></div> <div>S³</div> <div></div> <div>S⁴</div> <div></div> <div>S^K</div> <div></div> <div>D</div> <div></div> <div>S_{JAMB}</div> <div></div> <div>S^{TS}</div> <div></div> <div>S^{XP}</div> <div></div> <div>S^{WP}</div> <div></div> <div>S^{FAN}</div> <div></div> <div>S_#</div> <div></div> <div>PC</div> <div></div> <div>TC</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div> <div>OS</div> <div></div>	

FINAL PLAN

original issue date:
8/26/24

revision dates:

9 NORTH WILDHORSE

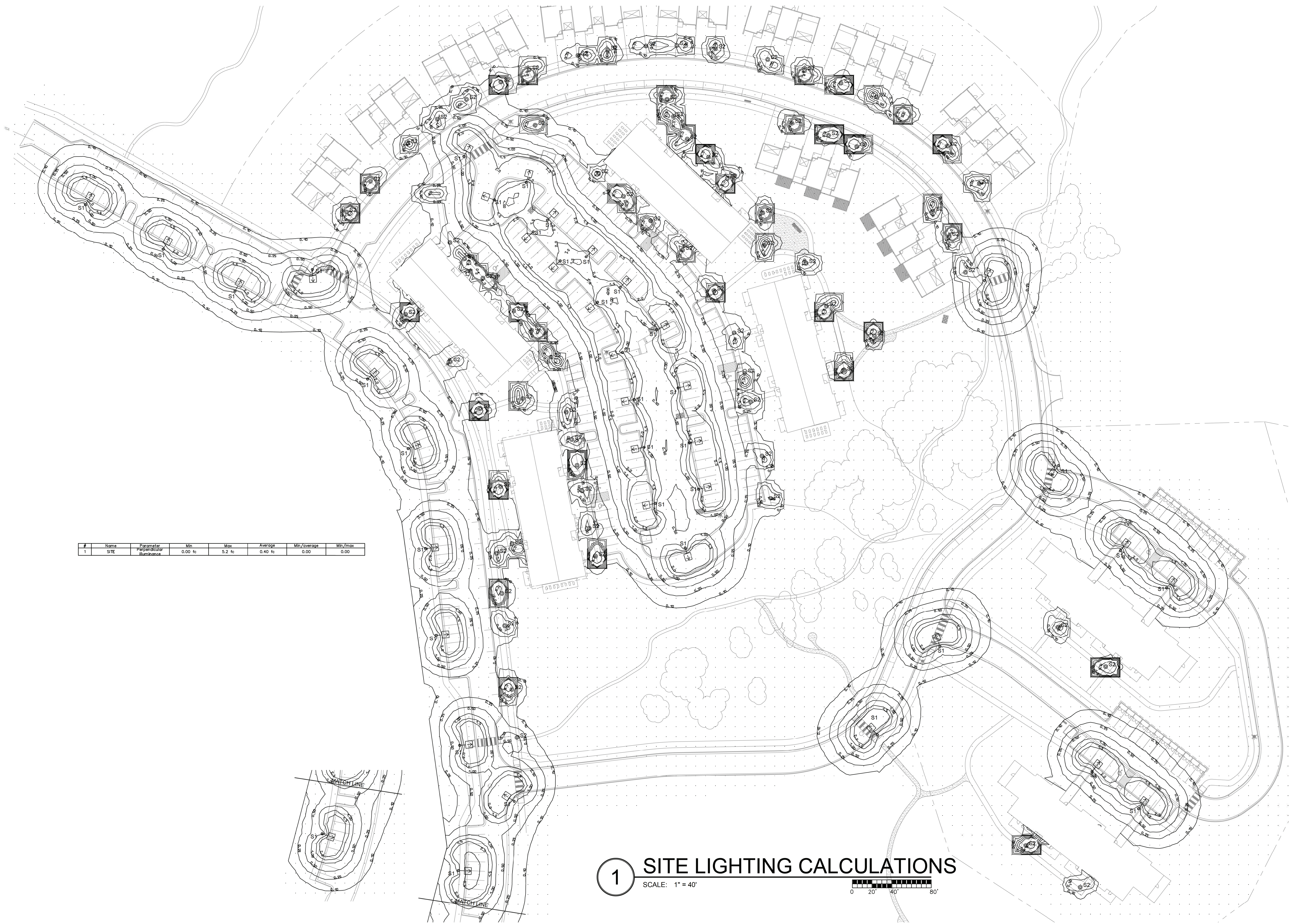
NEW CASTLE, COLORADO

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LIGHTING LEGEND

LIGHT-000



#	Name	Parameter	Min	Max	Average	Min/Average	Min/Max
1	SITE	Footcandle Illuminance	0.00 fc	5.2 fc	0.40 fc	0.00	0.00

1

SITE LIGHTING CALCULATIONS

SCALE: 1" = 40'

0

20'

40'

80'

FINAL PLAN
original issue date:
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revision dates:

9 NORTH WILDHORSE
NEW CASTLE, COLORADO



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SITE LIGHTING CALCULATIONS

LIGHT-101

4341 County Road 115, Canonville, Colorado 86225
(970) 348-2437 info@alpenglowinc.com

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 M_u20post_edge_01c_804

PHILMIGHT™

PA7R
BOLLARD

DATE: _____ LOCATION: _____

ISSUING OFFICE: _____

CATALOG NO: _____

TYPE S2

Pavilion™

FEATURES

- IMA DMS Sign Compliance, No Un-lit-logic Compliance
- Budget-fair, fast-to-install with Performance Optimum
- Integral NEMA 3B Enclosure
- Dual receptacle power supply
- PA System capability
- 100% quality controlled & tested

CONTROL TECHNOLOGY

Bluetooth™ DMX

SPECIFICATIONS

CONSTRUCTION

HOUSING:

- Castings are low copper aluminum alloy diecast
- Gaskets are molded elastomer to prevent harmful fumes to the lamp and driver compartments

WIND SPEED:

- 100 mph

SMALT:

- Aluminum substrate is 125" thick, extruded aluminum 6061 alloy
- Concrete substrate configurations must be 125" x 12" x 1/2" or Aggregates shall meet or exceed the following minimum standards: ASTM D5758, Type I, 3/4" max. size, 100% passing #20 sieve, 100% passing #40 sieve, 100% passing #60 sieve, 100% passing #100 sieve, 100% passing #200 sieve, 100% passing #400 sieve, 100% passing #600 sieve, 100% passing #800 sieve, 100% passing #1000 sieve, 100% passing #1200 sieve, 100% passing #1400 sieve, 100% passing #1600 sieve, 100% passing #1800 sieve, 100% passing #2000 sieve, 100% passing #2200 sieve, 100% passing #2400 sieve, 100% passing #2600 sieve, 100% passing #2800 sieve, 100% passing #3000 sieve, 100% passing #3200 sieve, 100% passing #3400 sieve, 100% passing #3600 sieve, 100% passing #3800 sieve, 100% passing #4000 sieve, 100% passing #4200 sieve, 100% passing #4400 sieve, 100% passing #4600 sieve, 100% passing #4800 sieve, 100% passing #5000 sieve, 100% passing #5200 sieve, 100% passing #5400 sieve, 100% passing #5600 sieve, 100% passing #5800 sieve, 100% passing #6000 sieve, 100% passing #6200 sieve, 100% passing #6400 sieve, 100% passing #6600 sieve, 100% passing #6800 sieve, 100% passing #7000 sieve, 100% passing #7200 sieve, 100% passing #7400 sieve, 100% passing #7600 sieve, 100% passing #7800 sieve, 100% passing #8000 sieve, 100% passing #8200 sieve, 100% passing #8400 sieve, 100% passing #8600 sieve, 100% passing #8800 sieve, 100% passing #9000 sieve, 100% passing #9200 sieve, 100% passing #9400 sieve, 100% passing #9600 sieve, 100% passing #9800 sieve, 100% passing #10000 sieve, 100% passing #10200 sieve, 100% passing #10400 sieve, 100% passing #10600 sieve, 100% passing #10800 sieve, 100% passing #11000 sieve, 100% passing #11200 sieve, 100% passing #11400 sieve, 100% passing #11600 sieve, 100% passing #11800 sieve, 100% passing #12000 sieve, 100% passing #12200 sieve, 100% passing #12400 sieve, 100% passing #12600 sieve, 100% passing #12800 sieve, 100% passing #13000 sieve, 100% passing #13200 sieve, 100% 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passing #20800 sieve, 100% passing #21000 sieve, 100% passing #21200 sieve, 100% passing #21400 sieve, 100% passing #21600 sieve, 100% passing #21800 sieve, 100% passing #22000 sieve, 100% passing #22200 sieve, 100% passing #22400 sieve, 100% passing #22600 sieve, 100% passing #22800 sieve, 100% passing #23000 sieve, 100% passing #23200 sieve, 100% passing #23400 sieve, 100% passing #23600 sieve, 100% passing #23800 sieve, 100% passing #24000 sieve, 100% passing #24200 sieve, 100% passing #24400 sieve, 100% passing #24600 sieve, 100% passing #24800 sieve, 100% passing #25000 sieve, 100% passing #25200 sieve, 100% passing #25400 sieve, 100% passing #25600 sieve, 100% passing #25800 sieve, 100% passing #26000 sieve, 100% passing #26200 sieve, 100% passing #26400 sieve, 100% passing #26600 sieve, 100% passing #26800 sieve, 100% passing #27000 sieve, 100% passing #27200 sieve, 100% passing #27400 sieve, 100% passing #27600 sieve, 100% passing #27800 sieve, 100% passing #28000 sieve, 100% 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[illegible][illegible]

Current Lighting

PA7H
BOLLARD

DIMENSIONS

LED

NO
Up Light Kit

OPTICS

Clear Lens

OH
Horizontal Lens

OV
Vertical Lens

LV
Louvers

GV
Grille

Trifluor Lens

DL
Vertical Lens

DELIVERED LUMENS

Driver Current	LEDs #	Nominal Watts	Nominal Lumens	Lens Options	Distribution	3500K 70CRI				4000K 70CRI				5000K 70CRI						
						Lumen	U	U	IntW	Lumen	U	U	IntW	Lumen	U	U	IntW			
550mA	5L	22	2300	NJ LO Clear	1	1044	0	0	0	48	106	0	0	52	164	0	0	54		
						2	189	0	0	1	185	104	0	0	70	236	0	0	72	
						3	1028	0	0	1	52	1225	0	0	1	57	1057	0	0	58
						3H5	953	0	0	0	44	1037	0	0	48	1062	0	0	49	
					4	4	1382	0	0	0	63	1482	0	0	1	68	1598	0	0	70
						5	1265	0	0	0	61	1596	1077	0	0	101	1442	1	0	85
						1	1779	0	3	1	62	1935	6	3	1	80	1901	0	3	91
						2	1771	1	3	1	79	1862	1	3	1	86	1906	1	3	88
				OH Clear/ Horizontal Lens	3H5	3	1643	1	3	1	76	1788	1	3	1	82	1837	1	3	84
						4	1731	0	3	1	80	1884	0	3	1	87	1929	0	3	89
						5	1841	1	3	1	85	2003	1	3	1	92	2007	1	3	95
						1	1852	0	4	1	85	2016	1	4	1	93	2064	1	4	95
				OV Clear/ Vertical Lens	3H5	2	1884	1	2	0	1	245	1	3	1	99	2278	1	3	102
						3	2062	1	3	1	95	2244	1	3	1	103	2298	1	3	106
						4	1665	0	3	1	79	1811	0	3	1	83	1855	0	3	85
						5	2055	0	3	1	95	2236	1	3	1	103	2260	1	3	105
					5	2169	1	3	0	1	235	1	3	1						



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