CPTED Requirements Section 9.210. Convenience Store A. Lighting requirements - light levels shall be in accordance with the following with the camera manufacturer's specifications

1. Indoor-lobby - Light levels of sufficient intensity to provide for high resolution video data recording from the digital video surveillance cameras in accordance 2. Outdoor - Minimum lighting levels of 5 footcandles shall be maintained at the stores entrance or shall be sufficiently lit to provide high resolution video data recording of outside activity with 50 feet of the store entrance. 3. Pump Islands - Under-canopy minimum lighting levels of 10.0 footcandles with a maximum of 30 footcandles shall be maintained at each pumping stations.

Video surveillance camera(s), two-color digital high definition, required: 1. To maintain view of cash register 2. To maintain view of all public and/or employee entrances into building/tenant

3. To maintain view of customers leaving via a door mounted pin hole camera, to be positioned at a height of between 4 and 5 feet from the bottom of the door.

4. Capable of providing a minimum storage of 30 days of video surveillance data. Alarm system required.

1. Alarm system shall be monitored off-site.

2. Silent panic alarm shall be provided at each register

3. Employees shall be provided with a remote alarm to wear on their person. D. Automatic door lock required. An automatic door lock capable of being locked

from the cash transaction counter shall be provided. E. Visibility maintained.

1. Unobstructed line of sight shall be maintained at all times from the cash register 2. Window areas shall be free from posters, flyers and other such visibility blockers

3. Displays set up in front of the window area, inside or outside, shall not inhibit the view from the front counter or cash transaction area. 4. The floor area at the cash register shall be elevated a minimum of 6" above floor grade to assist employee surveillance throughout the store.

Drop Safes, bolted to floor shall be required. Height strips shall be required at each public entrance in direct view of employees. "No Loitering/trespass" signs shall be posted at the front entry to the building. Annual review required.

1. An annual review of security measures shall be performed by each establishment with assistance from the Police Department 2. In the event of a robbery, the establishment where the robbery occurred shall. within 15 days of the event, schedule a review of security measures with the Police Department to determine steps to be taken to help deter additional robberies including, but not limited to, adding surveillance cameras. adding new lighting or increase the amount of existing lighting, requiring a minimum of two employees on

a given shift, ect. 3. In the event of an additional robbery where the Police Department's recommendations have not been implemented from a previous robbery, grounds may exist for revocation of the business license.

531 sf 1<u>/AL-401</u>

SOUTH STREET

Code Plan General Notes

G-001 FOR GENERAL PROJECT NOTES

REFERENCED, SEE THE FOLLOWING SHEETS:

AL-101 FOR SITE WORK

SITE PLAN AND BUILDING DRAWINGS

1. RELATED SHEETS: FOR ADDITIONAL INFORMATION NOT DIRECTLY

AQ-101 FOR EQUIPMENT FLOOR PLAN LAYOUT

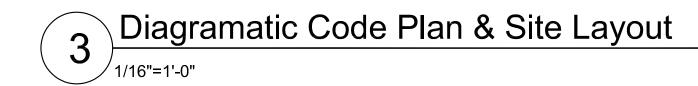
2. DO NOT USE THIS SHEET FOR SITE LAYOUT: THE SITE AND BUILDING

PLAN REPRESENTED ON THIS SHEET IS INTENDED AS A DIAGRAMMATIC

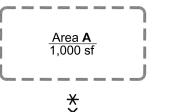
REPRESENTATION OF CODE AND ZONING RELATED ISSUES ONLY, ALL

SPECIFIC LAYOUT AND CONSTRUCTION INFORMATION IS FOUND ON THE

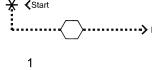
A-101 FOR BUILDING ADDITION AND REMODEL FLOOR PLAN



Code Plan Legend



EXIT Exit Width > 68" | 340 Cocupant Load



OF PATH OF TRAVEL AS REQUIRED BY CODES; SEE KEYED PLAN NOTE

OCCUPANT CAPACITY

PARKING: IDENTIFICATION OF AVAILABLE PARKING SPACES

USE FUNCTION: GRAPHIC REPRESENTATION

OF FLOOR AREA FUNCTIONS; SEE CODE

ANALYSIS, THIS SHEET FOR ADDITIONAL

EXITS, WITH ASSIGNED EXIT WIDTH AND

TRAVEL PATH: GRAPHIC REPRESENTATION

PROPERTY LINE

INFORMATION

Code Plan Keyed Notes

MAXIMUM LENGTH OF TRAVEL TO EXITS: 65' (200' ALLOWABLE).

SEPARATION DISTANCE OF EXITS: 52'-10" (BUILDING DIAGONAL, 86'-7")

FIRE SEPARATION DISTANCE: ALL PORTIONS OF EXTERIOR OF BUILDING ARE GREATER THAN 10' FROM PROPERTY LINE AND THEREFORE ARE NOT **BUILDING EXIT: IDENTIFICATION OF BUILDING** REQUIRED TO BE RATED CONSTRUCTION.

4 FIRE EXTINGUISHER: 4-A:80BC INSTALLED NEAR FRONT EXIT

(5) **KITCHEN FIRE EXTINGUISHER**: TYPE 'K' LOCATED WITHIN 30' OF HOOD

(6) VAN ACCESSIBLE PARKING SPACE: WITH POST SIGN AND NO-PARKING ACCESS AISLE, SURFACE SLOPES SHALL NOT EXCEED 1:50 (2%) IN ALL

(7) **LOADING BERTH:** 14' x 54', SUBJECT TO CHANGE

EMERGENCY FUEL SHUTOFF: POST MOUNTED SHUTOFF BUTTON WITH SIGN STATING "EMERGENCY FUEL SHUTOFF" LOCATED ALONG CURB LINE (8A); A SECONDARY SHUTOFF LOCATED INSIDE AT THE SALES COUNTER FOR THE CONVENIENCE OF STAFF (8B)

(9) TACTILE SIGN: @ 48" A.F.F. TO BRAILLE ON LATCH SIDE OF DOOR

Project Data

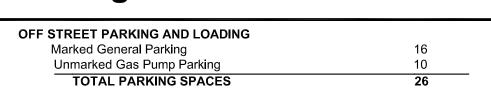
JURISDICTION:

LEE'S SUMMIT, MO 2018 International Building Code 2018 International Plumbing Code

2018 International Mechanical Code 2018 International Fuel Gas Code 2018 International Fire Code 2017 National Electrical Code

ICC/ANSI A117.1-2009, Accessible and Usable Buildings and Facilities

Zoning Information



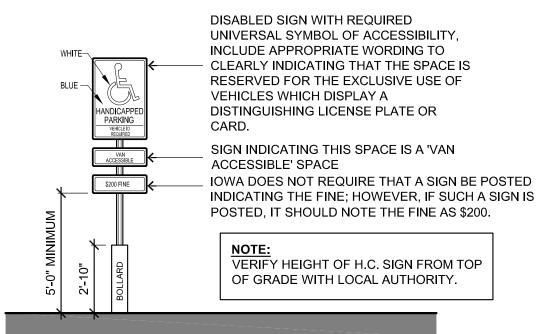
REQUIRED HANDICAP PARKING [ADAAG] 1: 25 Required Parking Spaces (Van Accessible)

PROVIDED HANDICAP PARKING =1 (VAN ACCESSIBLE)

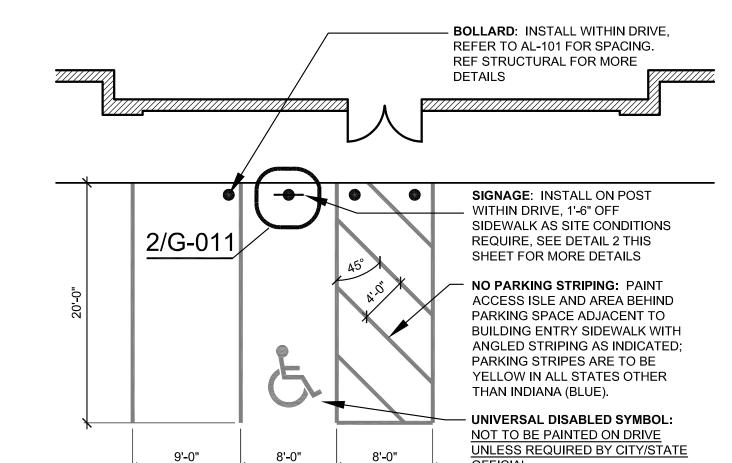
LOADING BERTH 1 Provided (14'x54'), Subject to change

SIGNAGE REQUIREMENTS

See Sheet AL-601 For project signage schedule and drawings.



Disabled Parking Signage



Disabled Parking Layout

Code Information

Occupancy Type (Section 309)

Retail Sales & Fuel Dispensing Group M - Mercantile

Construction Type (Section 602.5)

Type V, B (Non-rated) Construction in which the structural elements, exterior and interior walls are of any materials

permitted by the code.

Building Height & Area (*Table 503*) Based on above referenced occupancy type and construction type.

_	ALLOWABLE	ACTUAL
Height (Stories / Feet):	1 / 40'	1 / 25'
Area (Group M):	9.000 sf	4.206 sf

Incidental Uses (Section 508.2, Table 508.4)

No incidental use areas are present within building as defined in Table 508.4 that require separation.

Fire Resistive Requirements (Table 601)

		Hrs
Structural Frame		0
Bearing Walls	Exterior	0
	Interior	0
Non-bearing Walls	Exterior	Table 602
	Interior	0
Floor Construction		0
Roof Construction		0

Exterior Walls (Table 602)

Where exterior wall fire separation distance to the property line is less than 10', but more than 5' 1-Hour rated construction is required. If Less than 5' 2-Hour rated construction is required. All sides of building are more than 10' offset from property line. No rated construction required. (Plan Note 3)

Allowable Area of Openings (Section 705.8/Table 705.8) The maximum area of openings allowed in rated exterior construction is

determined as a percentage of total wall area (table 705.8). When an exterior wall is within 3' of property line no openings are allowed, from 3' to 5' only protected openings are allowed and from 5' to 10' both protected and unprotected openings are allowed. No exterior walls require rated construction, therefore no limitations are imposed on openings. (Plan Note 3)

Occupant Load (Chapter 10)

The Occupant Load is determined by first sub-dividing the plan layout into different 'Function Types' (per Table 1004.1.2) then dividing each by the assigned SF/Occupant to obtain the Total Occupant Load for exiting. The Function Areas assigned in the table below are graphically represented in the Code Plan on this sheet. (See Code Plan)

TABLE 1004.1.2	Criteria	Area	Load
	0.0	0.500.6	7.5
Area A - Mercantile	30 gross	2,500 sf	75
Area B - Business (Office)	100 gross	39 sf	1
Area C - Kitchen	200 gross	531 sf	3
Area D - Accessory (Back house)	300 gross	1,136 sf	3
TOTALS		4,206 sf	82

Building Exits

Egress Width (Section 1005)

Non sprinkled buildings require 0.2" of egress width per occupant. Egress width required, 12.4" for occupant load of 62 persons. Egress width provided, 148" total at three (3) locations. (See Locations on Code Plan)

Exit Doors (Section 1015, Table 1015.1)

Occupant load greater than 50 requires 2 exits separated by half the maximum diagonal distance of the building. Maximum diagonal, 86'-7", Exit Separation, 52'-10". (Plan Note 2)

Exit Access Travel Distance (Section 1016, Table 1016.2) In non sprinkled buildings the maximum travel distance from any point in the building to an exit is limited to 200'. Maximum distance present 74', See plan this sheet. (Plan Note 1)

Plumbing Fixtures (Chapter 29)

As required for toilet room fixture calculations, the assumed occupancy loads for male and female are 50% of the total occupancy load for the building (per Table

2902.1, IBC).			
·	CRITERIA	REQUIRED	PROVIDED
_	-	-	
MENS (31 Occupants)			
Water Closets	1 / 500	1	1
Lavatories	1 / 750	1	2
Urinal		0	1
WOMENS (31 Occupants)			
Water Closets	1 / 500	1	2
Lavatories	1 / 750	1	2
OTHER FIXTURES			
Drinking Fountain		1	0*
Service Sink		1	1

* Water is provided through a dispenser in the fountain drink system at no charge.

Fire Protection (IFC)

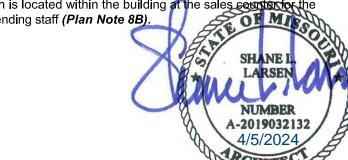
Portable Fire Extinguishers (Section 906)

Portable Fire Extinguishers shall be installed in accordance with NFPA 10 and meet the minimum coverage and travel distance requirements:

General: 4-A:80BC, 11,250sf Coverage / 75' Travel Distance (*Plan Note 4*) **Kitchen**: Type 'K', within 30' of Hood (*Plan Note 5*)

Emergency Fuel Shutoff (Section 2303.2)

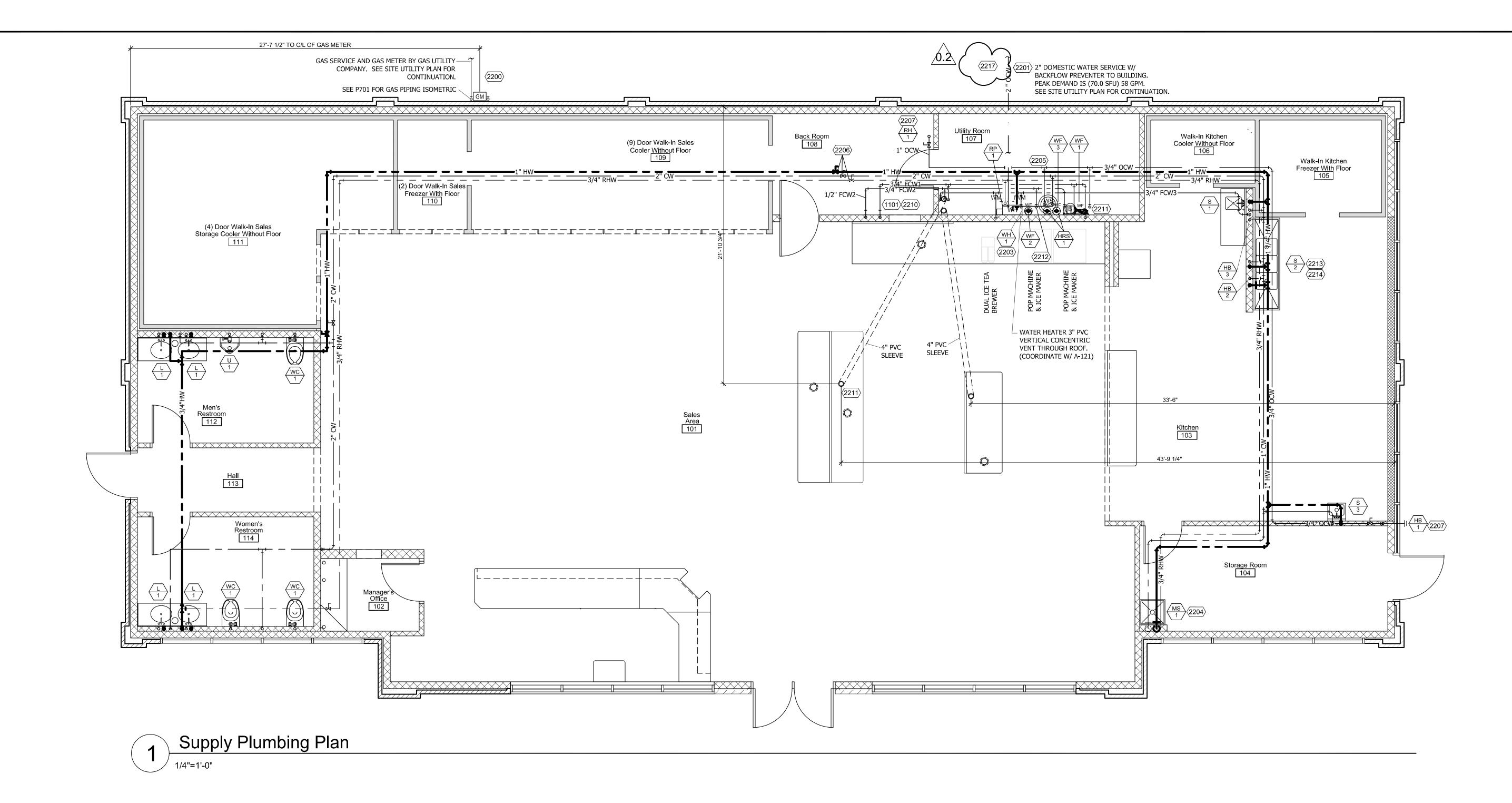
A fuel shutoff switch is located within 100' of the fuel pumps (*Plan Note 8A*); an additional shutoff switch is located within the building at the sales counterfor convenience of the attending staff (Plan Note 8B).





SCHEMMER 1044 North 115th Street, Suite 300

10/18/2023 CASEY'S GENERAL STORE **GENERAL** MO-150 & ARBORIDGE DR <u>/o.1\</u> 04/05/2024 PROJECT DATA LEE'S SUMMIT, MO 2023 - U4 - V.01 CODE DATA 07164.057 G-011 SLL



Symbols

G — NATURAL GAS LINE
CW — COLD WATER LINE
FCW1 — POP & CARBONATOR
FCW2 — FOLLETT & DRINKING FOUNTAIN
FCW3 — HOT BEVERAGES & VEG. SINK (PEX)
OCW — OUTSIDE COLD WATER LINE
HW — HOT WATER LINE

RHW RECIRCULATED HOT WATER LINE

General Notes

REFER TO THE FOLLOWING SHEETS FOR RELATED INFORMATION

A-101: ARCHITECTURAL PLAN
A-121: ROOF PLAN
S-101: FOOTINGS / FOUNDATION & SLAB
M-SERIES: MECHANICAL EQUIPMENT LOCATIONS
P-101: SANITARY PLAN
P-501: PLUMBING DETAIL AND SCHEDULE
P-601: SANITARY RISER DIAGRAM
P-701: SUPPLY RISER DIAGRAM

General Construction Notes

- 1. ALL PLUMBING SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS.
- 2. WATER LINES TO FIXTURES OR EQUIPMENT TO HAVE VALVES AND CHROME ESCUTCHEONS.
- 3. INSULATE ALL WATER LINES ABOVE THE CEILING, COLD WATER LINES TO INCLUDE VAPOR BARRIER JACKET.
- 4. ALL WATER LINES TO BE LOCATED IN THE INTERIOR WALLS. EXTERIOR WALL WATER LINES REQUIRE INSULATION PROTECTION.
- 5. PLUMBING CONTRACTOR TO USE ONLY ROOFING MANUFACTURER'S CAULKING ON ROOF PENETRATIONS.
- 6. SNACK CENTER EQUIP. SUPPLY LINES REQUIRE BALL VALVE SHUT-OFFS. PLUMBER TO TERMINATE WATERLINES TO BEVERAGE EQUIPMENT.
- 7. PROVIDE BACKFLOW PREVENTERS AS REQUIRED BY CODE AUTHORITIES.
- 8. ALL SUPPLY LINES TO BE INSULATED ABOVE CEILING.
- 9. 3" PVC SLEEVE THROUGH FOUNDATION TO BE INSTALLED FOR IRRIGATION SYSTEM VERIFY LOCATION WITH CASEY'S CONSTRUCTION SUPERVISOR.
- 10. IF LOW PRESSURE GAS IS NOT AVAILABLE, GENERAL CONTRACTOR TO NOTIFY CASEY'S HVAC SUPERVISOR IMMEDIATELY.
- 11. PLUMBER TO INSTALL REQUIRED VENTING FOR WATER HEATER.

Keyed Construction Notes

Division 11 - Equipment

- CARBONATOR: PER CASEY'S EQUIP SPEC, W/ BACK FLOW PREVENTER, INSTALLED ON TOP OF SYRUP RACK; NO COPPER PIPING BETWEEN CARBONATOR AND WATER STOP. 1-PER UNIT. WATTS NO. SD-3 OR EQUAL. MOUNT WATER VALVE ON RIGHT SIDE OF POP MACHINES, ON BACKSIDE OF REFRESHMENT CENTER WALL.
 - Division 22 Plumbing
- GAS SERVICE MAIN 2.5" BLACK SCHEDULE 40 (THREADED & COUPLED)SCREWED PIPE AND 150# BLACK MALLEABLE IRON FITTINGS. VERIFY WITH LOCAL, STATE AUTHORITY.
- WATER SERVICE MAIN 2 " CTS, HDPE, SDR9, C5-200 WITH TRACER WIRE, INSULATED THRU CONCRETE WITH BALL VALVES ON BOTH SIDES OF METER. VERIFY WITH LOCAL, STATE AUTHORITY.
 - USE 2" TYPE 'K' COPPER LINE FOR MAIN WATER SERVICE AT CONTAMINATE BUILDING SITES. (VERIFY)
- WATER METER: TEST WATER SERVICE PRESSURE, IF EXCEEDS 80 PSI INSTALL REGULATOR AT SERVICE ENTRANCE.
- UNION AND VALVES REQUIRED ON BOTH INLET/OUTLET LINES OF WATER
- FAUCET TO FLOOR BASIN (MS-1) REQUIRES ANTI-SIPHON, FAUCET TO BE @28" HEIGHT WITH 8" SPLIT NEXT TO WALL. REFER TO DETAIL ELEVATION ON SHEET P-501 AND MS-1 IN THE PLUMBING SCHEDULE.
- 2205 ALL PLUMBING AND PIPING IN UTILITY ROOM TO BE SURFACE MOUNTED.
- RESTROOM SUPPLY: ISOLATE COLD AND HOT WATER LINES TO RESTROOM AREA W/ BALL VALVES INSTALLED ABOVE CEILING.

- HOSE BIB: SUPPLY LINE AND FREEZE-LESS EXTERIOR HOSE BIB, PROVIDE ISOLATED SUPPLY LINE FOR EXTERIOR FAUCETS W/ MASTER BALL VALVE SHUT OFF ABOVE CEILING AND DRAIN BACK VALVE TO SINK TO CLEAR LINE OF WATER. REFER TO A-121 FOR ROOF HYDRANT LOCATION DIMENSIONS.
- (2210) CARBONATOR SUPPLY: RUN SUPPLY DOWN WALL CAVITY TO CARBONATOR ON
- COFFEE & REFRESHMENT SUPPLY LINES: COFFEE MANIFOLD IN CABINET, REFRESHMENT MANIFOLD ON WALL BEHIND SODA MACHINES. MANIFOLDS TO BE SUPPLIED WITH FILTERED COLD WATER.
- (2212) ICE MAKER SUPPLY LINES: MANIFOLDS TO BE SUPPLIED WITH FILTERED COLD
- (2213) WATER SUPPLY LINES TO INCLUDE UNIONS AFTER BALL VALVE TO TRIPLE SINK
- FAUCET.

 2214 NO PLUMBING ALLOWED UNDER TRIPLE SINK DRAIN BOARDS.
- CONTRACTOR TO PROVIDE PRESSURE REDUCING VALVE AT WATER SERVICE



SCHEMMER

Design with Purpose. Build with Confidence.

1044 North 115th Street, Suite 300
Omaha, NE 68154

PROJECT:

CASEY'S GENERAL STORE
MO-150 & ARBORIDGE DR
LEE'S SUMMIT, MO
2023 - U4 - V.01

PROJECT NUMBER:
07164.057
DRAWN BY:
CHECKED BY:

COA Number
CA0666

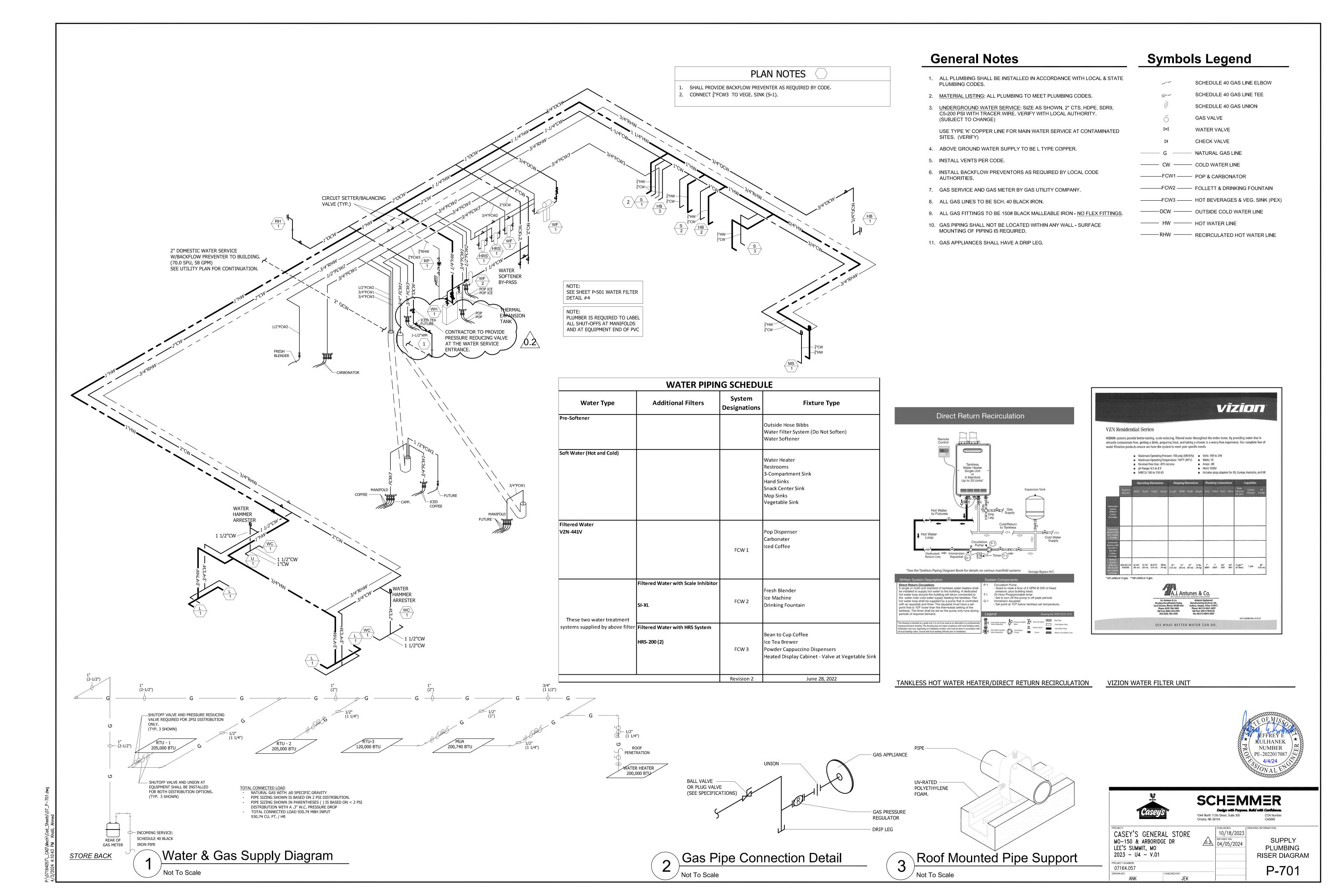
COA Number
CA0666

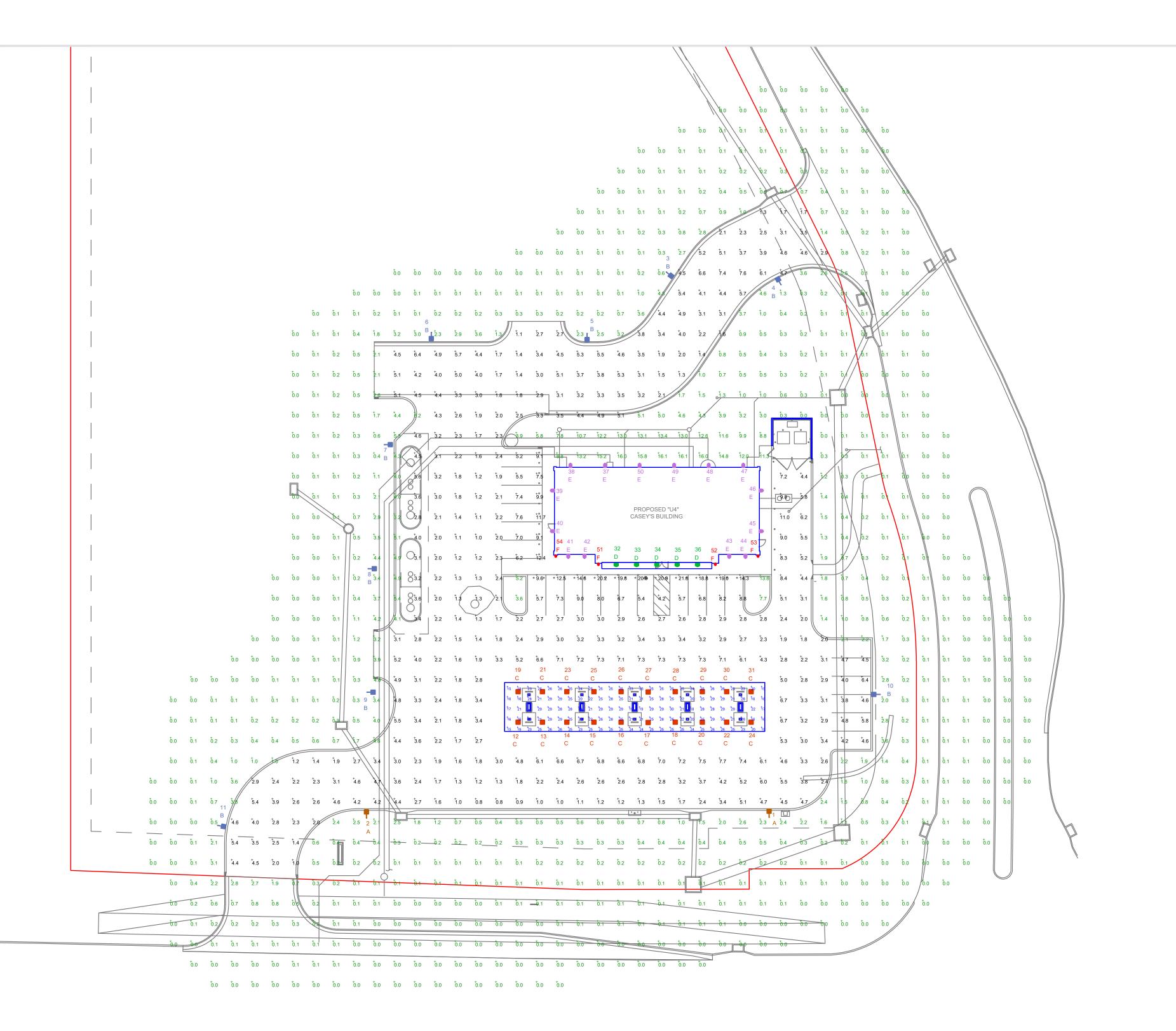
PUBLISHED:
10/18/2023
REVISED ON:
04/05/2024

PLUMBING PLAN

P-102

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MTG. HT. 16.5 16.5 16.5 16.5 16.5 16.5 8.75 8.75 8.75 8.75

MINAIRE LOCATION SUMMARY

ALL AREA LIGHTS ON NEW 15 FT. POLES MOUNTED ON 2 FT. CONCRETE BASES.

THIS SITE IS LOCATED IN A REGION WHERE LIGHTING IS REGULATED BY LOCAL ORDINANCES

FOOTCANDLES CALCULATED AT GRADE USING INITIAL LUMEN VALUES										
LABEL AVG MAX MIN AVG/MIN MAX/MIN										
CANOPY	23.80	30	15	1.59	2.00					
PAVED AREA	4.13	21.8	0.8	5.16	27.25					
UNDEFINED AREA	0.82	16.1	0.0	N.A.	N.A.					

LUMINAIRE SCHEDU	LUMINAIRE SCHEDULE											
SYMBOL	QTY	LABEL	ARRANGEMENT	LUMENS	LLF	BUG RATING	TOTAL WATTS	MANUFACTURER	DESCRIPTION			
	2	A	SINGLE	8891	1.030	B1-U0-G2	263.8	CREE, INC.	ARE-EDG-3MB-DA-06-E-UL-BZ-700			
	9	В	SINGLE	9549	1.030	B1-U0-G2	1206	CREE, INC.	ARE-EDG-4MB-DA-06-E-UL-BZ-700			
P	20	С	SINGLE	7275	1.020	B3-U0-G1	880	Cree Lighting	CP5-13L-57K7-DF-UL-RC-XX-Q1			
\blacksquare	5	D	SINGLE	3902	1.030	B2-U0-G0	170	CREE, INC.	SFT-228-PS-RM-03-E-UL-XX-350-IC-57K			
	14	E	SINGLE	8739	1.030	B2-U0-G2	1414	CREE, INC.	SEC-EDG-3M-WM-06-E-UL-XX-525-57K			
•	4	F	Single	2849	1.000	B2-U5-G0	212	FC LIGHTING, INC.	FCC618W-UNV-930-1515L-BRE-D15U15-LD			



1340 Kemper Meadow Dr, Forest Park, OH 45240

513-574-9500 | redleonard.com

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SCALE: LAYOUT BY:
1" = 30' JAN

DWG SIZE: DATE:

D

06/23/23

CASEY'S #4291
LEE'S SUMMIT, MO
DRAWING NUMBER:
RL-8952-S1

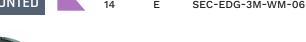








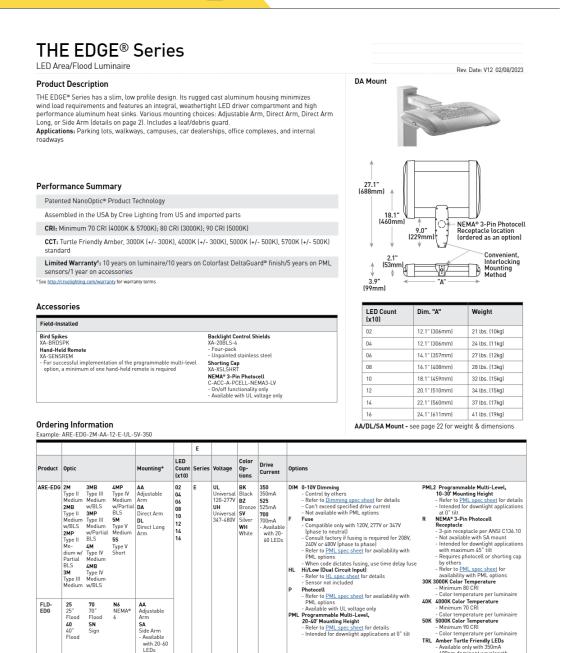




QTY LABEL DESCRIPTION WALL MOUNTED 4 F FCC618W-UNV-930-1515L-BRE-D15U15-LD



ADDITIONAL FIXTURE INFO



UL ROHS US: creelighting.com (800) 236-6800

THE EDGE® LED Area/Flood Luminaire

Product Specifications

- CONSTRUCTION & MATERIALS Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks
- DA and DL mount utilizes convenient interlocking mounting method. Mounting is rugged die cast aluminum, mounts to 3-6" (76-152mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced on 2" (51mm) centers
- AA and SA mounts are rugged die cast aluminum and mount to 2"
 [51mm] IP, 2.375" (60mm) 0.D. tenons Includes leaf/debris quard
- Weight: See Dimensions and Weight Charts on pages 1 and 22
- ELECTRICAL SYSTEM
 Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load • Total Harmonic Distortion: < 20% at full load
- DA and DL mounts designed with integral weathertight with terminal strips (12Ga-20Ga) for easy power hookuj Integral 10kV/5kA surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current Maximium 10V Source Current: 20 LED (350mA): 10mA; 20 LED (525 & 700mA) and 40-80 LED: 0.15mA; 100-160 LED: 0.30mA

REGULATORY & VOLUNTARY QUALIFICATIONS Suitable for wet locations

- Consult factory for CE Certified products Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts
- ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/ ANSI C62.41.2 Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Assembled in the USA by Cree Lighting from US and imported parts Meets Buy American requirements within ARRA • CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

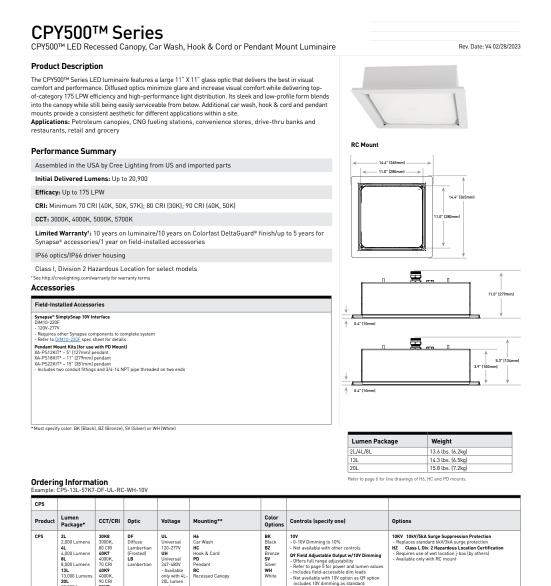
Product Specifications	Electrical Data*									
·										
CONSTRUCTION & MATERIALS	LED		System	Total Current (A)						
Slim, low profile, minimizing wind load requirements	Count	CCT	Watts							
 Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance heat sinks 	[x10] 120-480V 120V 208V 240V 277V 347V 480V 350mA									
DA and DL mount utilizes convenient interlocking mounting method.	35UMA									
Mounting is rugged die cast aluminum, mounts to 3-6" (76-152mm) square or round pole and secures to pole with 5/16-18 UNC bolts spaced	02	30K/40K/50K/57K	25	0.21	0.13	0.11	0.10	0.08	0.07	
on 2" (51mm) centers	02	TRL	19	0.16	0.09	0.08	0.07	0.05	0.04	
 AA and SA mounts are rugged die cast aluminum and mount to 2" (51mm) IP, 2.375" (60mm) O.D. tenons 	04	30K/40K/50K/57K	46	0.36	0.23	0.21	0.20	0.15	0.12	
Includes leaf/debris quard		TRL	35	0.29	0.17	0.15	0.13	0.10	0.07	
Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer	06	30K/40K/50K/57K	66	0.52	0.31	0.28	0.26	0.20	0.15	
with an ultra-durable powder topcoat, providing excellent resistance to		TRL	50	0.41	0.24	0.21	0.18	0.14	0.10	
corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available	08	30K/40K/50K/57K	90	0.75	0.44	0.38	0.34	0.26	0.20	
Weight: See Dimensions and Weight Charts on pages 1 and 22	00	TRL	68	0.57	0.33	0.28	0.25	0.20	0.14	
		30K/40K/50K/57K	110	0.92	0.53	0.47	0.41	0.32	0.24	
Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers	10	TRL	83	0.69	0.40	0.35	0.30	0.24	0.17	
Power Factor: > 0.9 at full load		30K/40K/50K/57K	130	1.10	0.63	0.55	0.48	0.38	0.28	
Total Harmonic Distortion: < 20% at full load	12	TRL	99	0.82	0.48	0.41	0.36	0.28	0.21	
DA and DL mounts designed with integral weathertight electrical box		30K/40K/50K/57K	158	1.32	0.77	0.68	0.62	0.47	0.35	
with terminal strips (12Ga–20Ga) for easy power hookup	14	TRL	120	1.00	0.58	0.50	0.43	0.34	0.25	
Integral 10kV/5kA surge suppression protection standard When and distance feeling a plant bland for suppression protection standard		30K/40K/50K/57K	179	1.49	0.87	0.77	0.68	0.53	0.39	
 When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current 	16	TRL	136	1.13	0.65	0.57	0.49	0.39	0.28	
 Maximium 10V Source Current: 20 LED (350mA): 10mA; 20 LED (525 & 	525mA									
700mA) and 40-80 LED: 0.15mA; 100-160 LED: 0.30mA										
REGULATORY & VOLUNTARY QUALIFICATIONS	02	30K/40K/50K/57K	37	0.30	0.19	0.17	0.16	0.12	0.10	
cULus Listed	04	30K/40K/50K/57K	70	0.58	0.34	0.31	0.28	0.21	0.16	
Suitable for wet locations	06	30K/40K/50K/57K	101	0.84	0.49	0.43	0.38	0.30	0.22	
Enclosure rated IP66 per IEC 60529 when ordered without P or R options	08	30K/40K/50K/57K	133	1.13	0.66	0.58	0.51	0.39	0.28	
Consult factory for CE Certified products	10	30K/40K/50K/57K	171	1.43	0.83	0.74	0.66	0.50	0.38	
 Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards when ordered with AA, DA and DL mounts 	12	30K/40K/50K/57K	202	1.69	0.98	0.86	0.77	0.59	0.44	
ANSI C136.2 10kV/5kA surge protection, tested in accordance with IEEE/	14	30K/40K/50K/57K	232	1.94	1.12	0.98	0.87	0.68	0.50	
ANSI C62.41.2	16	30K/40K/50K/57K	263	2.21	1.27	1.11	0.97	0.77	0.56	
 Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions 	700mA									
Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117	02	30K/40K/50K/57K	50	0.41	0.25	0.22	0.20	0.15	0.12	
RoHS compliant. Consult factory for additional details	04	30K/40K/50K/57K	93	0.78	0.46	0.40	0.36	0.27	0.20	
Assembled in the USA by Cree Lighting from US and imported parts	06	30K/40K/50K/57K	134	1.14	0.65	0.57	0.50	0.39	0.29	
Meets Buy American requirements within ARRA	Electrica	l data at 25°C (77°F). Actual	wattage may differ b	ıy +/- 10% v	vhen opera	ating betwe	een 120-27	7V or 347-	480V	
• CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov	+/- 10%									

CREE
LIGHTING

сст	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² / Estimated ³ LMF	100K hr Estimate LMF
30K/40K/50K/57K	1.04	1.03	1.03	1.03²	1.03
TRL	1.06	1.06	1.06	1.063	1.06
30K/40K/50K/57K	1.03	1.02	1.02	1.02 ²	1.02
TRL	1.04	1.04	1.04	1.043	1.04
30K/40K/50K/57K	1.02	1.01	1.01	1.01 ²	1.01
TRL	1.03	1.03	1.03	1.033	1.03
30K/40K/50K/57K	1.01	0.99	0.99	0.99²	0.99
TRL	1.01	1.01	1.01	1.01 ³	1.01
30K/40K/50K/57K	1.00	0.98	0.98	0.98 ²	0.98
TRL	1.00	1.00	1.00	1.00³	1.00
	30K/40K/50K/57K TRL 30K/40K/50K/57K TRL 30K/40K/50K/57K TRL 30K/40K/50K/57K TRL 30K/40K/50K/57K	LMF 30K/40K/50K/57K 1.04 TRL 1.06 30K/40K/50K/57K 1.03 30K/40K/50K/57K 1.02 TRL 1.04 30K/40K/50K/57K 1.02 TRL 1.03 30K/40K/50K/57K 1.01 30K/40K/50K/57K 1.01 30K/40K/50K/57K 1.00	CCT Initial LMF Reported ² LMF	CCT Initial LMF Reported² LMF Reported² LMF 30K/40K/50K/57K 1.04 1.03 1.03 TRL 1.06 1.06 1.06 1.02 30K/40K/50K/57K 1.03 1.02 1.02 1.02 TRL 1.04 1.04 1.04 1.04 30K/40K/50K/57K 1.02 1.01 1.01 1.01 TRL 1.03 1.03 1.03 30K/40K/50K/57K 1.01 0.99 0.98 30K/40K/50K/57K 1.00 0.98 0.98 0.98	CCT Initial LMF 2kN hr Reported/ LMF SbK hr Reported/ LMF SbK hr Reported/ Estimated ² LMF Spectred/ Estimated ² LMF Reported/ Estimated ³ LMF Reported/ Estimated ³ LMF <t< td=""></t<>

CREE \$\DECE\text{LIGHTING}

ADDITIONAL FIXTURE INFO





CREE \(\int \) LIGHTING

CPY500™ LED Recessed Canopy, Car Wash, Hook & Cord or Pendant Mount Luminaire

O1	1300	LLD Necesseu	Carr
Pr	oduct 9	Specifications	

C	ONSTRUCTION & MATERIALS
•	Slim, low profile light engine is constructed of rugged cast aluminum with integral heat sink specifically designed for LED
•	Large uniform light panel features 0.157" molded borosilicate glass lens w/ side sparkle

- HC mount housing is constructed from aluminum with a factory-applied foa gasket: It includes a galvanized steel bracket with hook that mounts to the PEM studs on the housing. It includes a 3° cord out of the luminaire PD mount housing is constructed from aluminum with factory-applied foam gasket. It includes a galvanized steel mounting bracket that mounts to the PEM stude on the housing, wire leads accessible in the provided J-Box for customer wiring. It is intended to be mounted by 3/4 NPT pendant (by others)
- Includes wire form hanger and quick connects between light engine and driver compartment for ease of installation Corrosion resistant and captive screws Exclusive Colorfast DeltaGuard* finish which features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available

Weight: Refer to table on page 1. **ELECTRICAL SYSTEM**• Input Voltage: 120-277V or 347-480V, 50/60Hz

- Power Factor: > 0.9 at full load • Total Harmonic Distortion: < 20% at full load • Integral 6kV/3kA surge suppression protection standard; 10kV/5kA optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current CONTROLS
 • Continuous dimming to 10% with 0-10V DC control protoco • 10V Source Current: 2L-8L: 0.15mA; 13L: 1mA; 20L: 0.15mA
- REGULATORY & VOLUNTARY QUALIFICATIONS
- Suitable for wet locations (H6, HC & RC mounts) Suitable for damp locations (PD mount) PD driver compartment and light engine enclosures meet IP66 requirements per IEC 60529. H6, HC and RC mounts meet IP66 requirements per IEC60529.
- ANSI C136.2 6kV/3kA (standard) and 10kV/5kA (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2 Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Assembled in the USA by Cree Lighting from US and imported parts
 Meets Buy American requirements within ARRA · RoHS compliant. Consult factory for additional details Class I, Division 2 Hazardous Location rated when ordered with RC mount with HZ option. Rated for Groups A, B, C & D. Bears a T4A, (120°C) temperature classification within a 40°C ambient (Pending)
- Dark Sky Friendly, IDA Approved when ordered with 3000K CCT. Please refer to https://www.darksky.org/our-work/lighting/lighting-forindustry/fsa/fsa-products/ for most current information

US: creelighting.com T (800) 236-6800 Canada: creelighting-canada.com T (800) 473-1234

 DLC Premium qualified when ordered with 8L, 13L and 20L lumen packages.
Please refer to https://qpl.designlights.org/solid-state-lighting for most current information CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov

Operating Temperature Range NOTE: Luminaire is UL rated at 40°C, but will operate in the ambients listed above.

WARNING: Exceeding maximum operating temperature may result in thermal foldback **CREE** \$\DECEMBerrian{\text{CREE}}{\text{creation}} \text{LIGHTING}^*

CPY500™ Series Ambient Adjusted Lumen Maintenance¹

20L Plywood* 1.01 0.97 0.93

2L-13L Plywood/ 2L-20L Metal 1.02 0.98 0.96 0.93

 ZL-ZUL Metal
 U.71
 U.73
 U.71

 20L Plywood*
 1.02
 0.98
 0.94
 0.91
 0.88

 2L-3L Plywood/
 1.01
 0.98
 0.95
 0.93
 0.90

2L-13L Plywood/ 2L-20L Metal 1.01 0.97 0.95 0.92 0.89

| 2L-13L Plywood/ | 2L-20L Metal | 1.00 | 0.97 | 0.94 | 0.91 | 0.89 | | 20L Plywood* | 1.00 | 0.96 | 0.93 | 0.89 | 0.86 |

 2L-20L Metal
 0.97
 0.95
 0.91
 0.87
 0.83

 2L-13L Plywood*
 0.99
 0.95
 0.91
 0.87
 0.83

 2L-13L Plywood*
 0.99
 0.96
 0.93
 0.90
 0.88

 20L Plywood*
 0.99
 0.93
 0.89
 0.84
 0.80

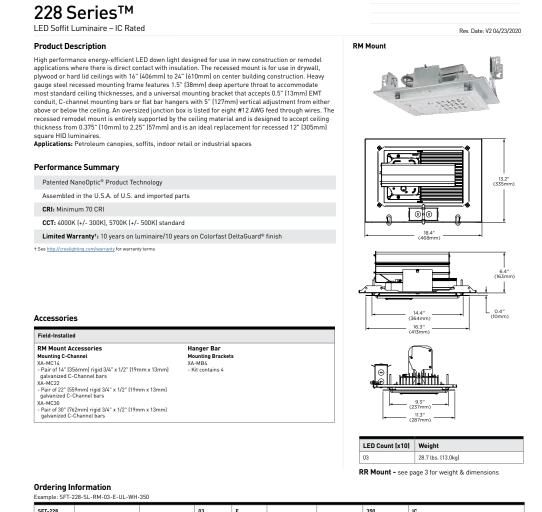
 2L-13L Plywood*
 0.98
 0.95
 0.92
 0.90
 0.87

20L Plywood* 0.98 0.92 0.87 0.82 0.77

In accordance with IES TM-21, Reported values represent interpolated values based on time durations that are up to 6x he tested duration in the IES LM-80 report for the LED.

20L Plywood* 1.02 0.98

ADDITIONAL FIXTURE INFO



SFT-228			03	E			350	IC
Product	Optic	Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
SFT-228	SL Sparkle Petroleum PS Petroleum Symmetric	RM Recessed RR Recessed Remodel	03	E	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze WH White	350 350mA	IC IC Rated 40K 4000K Cotor Temperature - Cotor temperature per luminaire - Minimum 70 CRI



CREE \$\(\dagge\) LIGHTING

t System Watts 120-480V 120V 208V 240V 277V 347V 480V

34 0.30 0.19 0.18 0.20 0.11 0.09

Jackaged LEU cnipi In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip)

CREE
LIGHTING

228 Series™ Ambient Adjusted Lumen Maintenance1

228 Series™ LED Soffit Luminaire – IC Rated

Electrical Data*

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u	JF	43	91	ĸι	الا	II	אנ	οι	MA	٩I		KI	AL:	>	
	1	٠	ır	in	air	۵	cir	łac	21	na	m	10		d	dia

Product Specifications

- Luminaire sides are rugged die cast aluminum with high performance extruded aluminum heat sinks specifically designed for high power LEDs, factory assembled to the trim and wired to the driver
 Driver compartment is constructed of anodized extruded aluminum for exceptional thermal performance
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer orrosion, ultraviolet degradation and abrasion. Black, bronze and white
- Weight: See Weight Chart on pages 1 and 3
- High performance energy-efficient LED down light, designed for use in new construction applications with drywall, plywood or hard lid ceilings and 16" [406mm] to 24" [610mm] on center building construction Heavy gauge steel recessed mounting frame features 1.5" (38mm) deep aperture throat to accommodate most standard celling thicknesses, and a universal mounting bracket that accepts 0.5" (13mm) EMT conduit, C-channel mounting bars or flat bar hangers with 5" [127mm) vertical adjustment from either above or below the ceiling includes an oversized
- junction box is listed for eight #12 AWG feed through wires High performance energy-efficient LED down light, designed for remodel application.

 10°C (50°F)
- Entirely supported by the ceiling material and is designed to fit through 12" (305mm) x 12" (305mm) opening Accepts ceiling thicknesses from 0.375" (10mm) to 2.25" (57mm)
- An ideal replacement for 12" (305mm) x 12" (305mm) recessed HID ELECTRICAL SYSTEM

• Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers • Power Factor: > 0.9 at full load • Total Harmonic Distortion: < 20% at full load Integral 10kV surge suppression protection standard

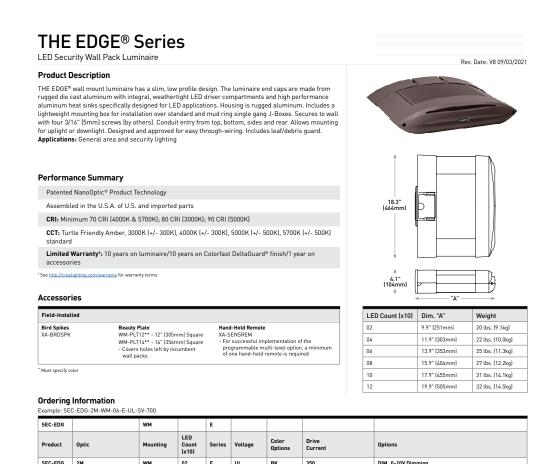
To address inrush current, slow blow fuse or type C/D breaker should

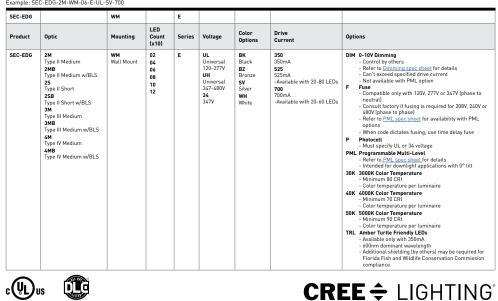
REGULATORY & VOLUNTARY QUALIFICATIONS

- Suitable for wet locations under covered ceilings Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated Consult factory for CE Certified products
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Type IC in accordance with Article 410 of the NEC and UL 1598, suitable for direct contact with insulation RM mount listed for eight #12 AWG, 75°C rated through branch circuit
- Meets Buy American requirements within ARRA CA RESIDENTS WARNING: Cancer and Reproductive Harm -

US: creelighting.com (800) 236-6800

ADDITIONAL FIXTURE INFO





Electrical Data*



THE EDGE® LED Security Wall Pack Luminaire

US: creelighting.com (800) 236-6800 Canada: creelighting-canada.com (800) 473-1234

Product Specifications

- CONSTRUCTION & MATERIALS Slim, low profile design
- · Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired Secures to wall with four 3/16" (5mm) screws (by others) . Conduit entry from top, bottom, sides, and rear
- · Allows mounting for uplight or downlight Designed and approved for easy through-wiring Includes leaf/debris guard
- Weight: See Dimensions and Weight Chart on page 1

ELECTRICAL SYSTEM • Input Voltage: 120–277V or 347–480V, 50/60Hz, Class 1 drivers

- Power Factor: > 0.9 at full load • Total Harmonic Distortion: < 20% at full load Integral weathertight J-Box with leads (wire nuts) for easy power hook $% \left\{ 1,2,\ldots ,n\right\} =0$
- Integral 10kV surge suppression protection standard When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
 Maximum 10V Source Current; 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

Suitable for wet locations

US: <u>creelighting.com</u> (800) 236-6800

Canada: creelighting-canada.com (800) 473-1234

- . Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated Enclosure rated IP66 per IEC 60529 when ordered without P or PML
- ANSI C136.2 10kV surge protection, tested in accordance with IEEE/ANSI C136.2 10kV surge protection. Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 1
- DLC qualified with select SKUs. Refer to https://www.designlights.org/search/ for most current information. Meets Buy American requirements within ARRA

	Ambient	ССТ	Initial LMF	25K hr Reported ² LMF	50K hr Reported ² LMF	75K hr Reported ² / Estimated ³ LMF	100K H Estima LMF
	5°C (41°F)	30K/40K/50K/57K	1.04	1.03	1.03	1.03 ²	1.03
		TRL	1.06	1.06	1.06	1.063	1.06
	10°C (50°F)	30K/40K/50K/57K	1.03	1.02	1.02	1.02 ²	1.02
		TRL	1.04	1.04	1.04	1.043	1.04
	15°C (59°F)	30K/40K/50K/57K	1.02	1.01	1.01	1.012	1.01
		TRL	1.03	1.03	1.03	1.033	1.03
	20°C (68°F)	30K/40K/50K/57K	1.01	0.99	0.99	0.992	0.99
		TRL	1.01	1.01	1.01	1.013	1.01
	25°C (77°F)	30K/40K/50K/57K	1.00	0.98	0.98	0.982	0.98
		TRL	1.00	1.00	1.00	1.003	1.00
	**Lumen maintenance values at 25°C (77°F) are calculated per IES TM-21 based on IES LM-80 report data for the LEI package and in-situ luminaire testing. Luminaire ambient temperature factors (LATF) have been applied to all tumen maintenance factors. Please refer to the Emperature Zome Reference Bocument for outdoor average nighttime amb conditions. 10°C and the state of the Cather Control of the Cather Control of the Cather						

THE EDGE® Series Ambient Adjusted Lumen Maintenance1

CREE \(\int \) LIGHTING

 0.21
 0.13
 0.11
 0.10
 0.08
 0.07

 0.16
 0.09
 0.08
 0.07
 0.05
 0.04

 0.36
 0.23
 0.21
 0.20
 0.15
 0.12

 0.29
 0.17
 0.15
 0.13
 0.10
 0.07

| 30K/40K/50K/57K | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 | 30K/40K/50K/57K | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 | 30K/40K/50K/57K | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 | 30K/40K/50K/57K | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |

| 30K/40K/50K/57K | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 | | 30K/40K/50K/57K | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 | | 30K/40K/50K/57K | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

OUTDOOR LIGHTING

FCC600 Up/Down or Up, Standard Drivers without Battery Backup



Lifetime: > 70,000 hours / L70 or better

7 Part 15 Class A. EldoLED & Lutron optional

Luminaire lumen depreciation projection to >70,000hrs.

Dimming: Standard: 0-10V, 1% Dimming, Optional: ELV, TRIAC, dim to off, DMX, DALI Certification: CEC Title 24 - JA8 Compliant (93 CRI Only)

Standards: cETLus Listed, CE, NOM, and RoHS Compliant. Wet location listed for wall

or ceiling mount IP65 Ingress protection. 1.5G (ANSI C136.31) Vibration resistance rat-

ed. IK09 (IEC6226) Impact resistance rated. IESNA LM79 Photometric testing by NVLAP accredited test lab. IESNA LM80 LED testing by NVLAP accredited test lab. IESNA TM21

Power Consumption: Up to 53W (5000 lm)

ELECTRICAL

Beam Spread: 15° | 25° | 40° | 50° | 72° CCT Options: 2700K | 3000K | 3500K | 4000K CRI: 93 CRI Consistency: 2 SDCM (Fixture to Fixture) Lumens: 5000 lm

Mounting: Mounts directly to standard recessed junction box with wall mount or twist-lock canopy. Additional holes allow unit to be attached directly to mounting

Voltage: Universal 120–277V AC standard, 347V optional Power Supply: Integral Class II, electronic high-power factor > 90, THD < 20%, FCC Title ngress Protection: Continuous silicone gasket to seal out contaminants, IP65 rated for dry, damp or wet locations Finish: Six stage chemical iron phosphate conversion pre-treatment. Polyester

owder coat finish, 18 µm Min., 5000hr salt spray test (ASTM B117) compliant with Florida / AAMA 2604 specification. Warranty: 5-Year limited warranty (refer to website for details) lens ring and cap with stainless steel hardware. Lens: IK09 impact compliant, clear anti-glare tempered glass ibration Resistance: Compliant with 1.5G ANSI C136.31, Seismic rated AC-156

Operating Temperature: -22°F to 122°F (-30°C to 50°C)

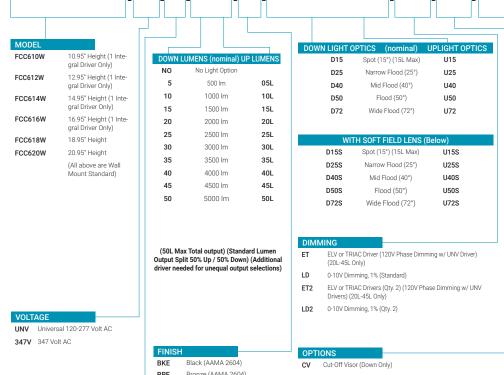
		Wall Mount (WM)				
Fixture	Height (H)	T				
FCC610W	10.95" Height (1 Integral Driver Only)	3.55"				
FCC612W	12.95" Height (1 Integral Driver Only)	(Centered H Top to Bottom) 5.5"				
FCC614W	14.95" Height (1 Integral Driver Only)	Wall Mount J-Box Mounting				
FCC616W	16.95" Height (1 Integral Driver Only)	2.7" Bracket (included)				
FCC618W	18.95" Height	6.3"				
FCC620W	20.95" Height	<u> </u>				
	(All above are Wall Mount Standard)					

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FCC600 Up/Down or Up, Standard Drivers without Battery Backup





935 (93CRI) 3500K 940 (93CRI) 4000K

930 (93CRI) 3000K

SLE Silver (AAMA 2604)

WHE White (AAMA 2604)

CCE Custom Color (AAMA 2604)

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JS: creelighting.com (800) 236-6800 Canada: creelighting-canada.com [800] 473-1234

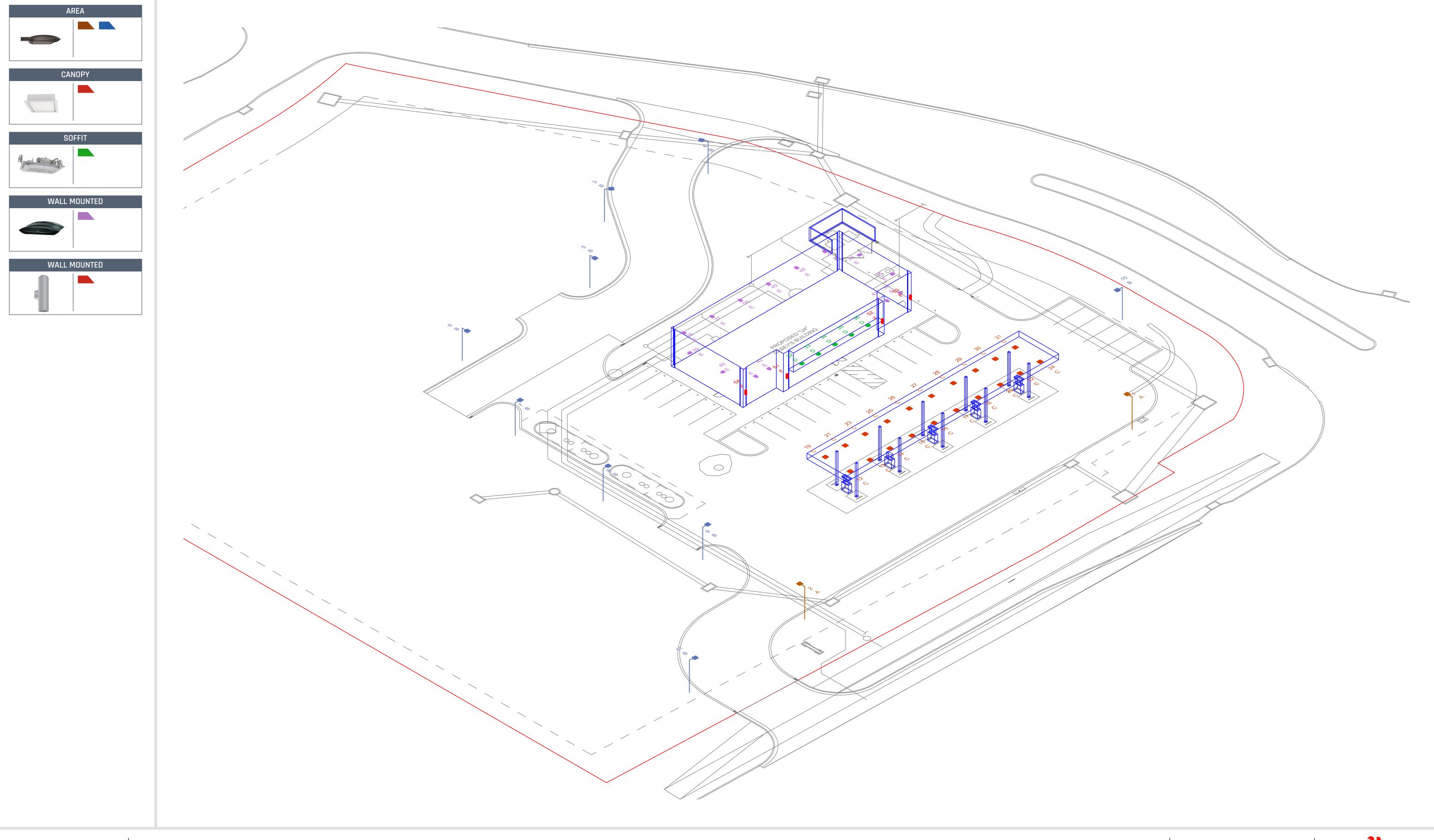
REDLEONARD ASSOCIATES 1340 Kemper Meadow Dr, Forest Park, OH 45240

513-574-9500 | redleonard.com

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