

DESIGN DATA

FEATURES & SPECIFICATIONS

INTENDED USE — Suitable for applications requiring both exit sign and unit equipment. Attractive, 8' tall, streamlined design is great for above-the-door applications and other tight fits. Optional high-output version with remote lamps are ideal for emergency egress lighting. Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate. Click here for Acrylic- Polycarbonate **CONSTRUCTION** — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and

corrosion-proof. UL94V-O flame rating. UV-stable resin resists discoloration from natural and man-made Rugged unibody housing snaps together with no additional fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet are easily removable for lamp compartment access. Universal, directional chevron inserts are easily removed and reinserted Uniform graphics illumination without shadows or hot spots. Letters are 6" high with 3/4" stroke, with 100 ft.

iewing distance rating based upon UL924 standard. LEDs mounted on primary circuit boards for sign illumination. Low-energy LED lamp in sign operates in normal (AC input) and emergency (DC input) modes. Low-profile, integrated test switch/pilot light. Easily viewed bright red status indicator

Unique track-and-swivel arrangement permits full range of direction of lamp head adjustment. Universal J-box nounting pattern. Tool-less access for maintenance. Conduit entry position on top of unit. U.S. Patent No. 6,848,798; 6,499,866; 6,142,648; 5,797,673; D379,373; 5,526,251; D484,272;

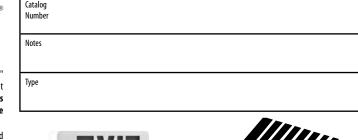
D473,672; 5,611,163; 5,646,502. **OPTICS** — Twin LED lamp heads operate in emergency (DC input) mode with 12 series-parallel white LEDs in each head. Provides redundant light sources to ensure emergency lighting performance. The typical life of the exit LED lamp is 10 years. **ELECTRICAL** — Dual-voltage input capability (120/277V). Edge connector on printed circuit board ensures

long-term durability. Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient locking pin secures housing to canopy. undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life. AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from Single multi-color LED indicator to display two-state charging, test activation and three-state diagnostic test. All values are design or typical values, measured under laboratory conditions at 25 °C.

Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Specifications subject to change without notice. Self-diagnostic testing for 30 seconds every 30 days, 30 minutes at 180-day interval, and 90 minutes annually. Diagnostic evaluation of LED light source, AC-to-DC transfer, charging and battery condition. Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minute capacity to emergency lamps. Two-state contstant-current charge maximizes battery life and automatically recharges after batter discharge. Low-voltage disconnect prevents excessively deep discharge that can permanently damage the bat tery. Optional high-output battery to power both local and optional LED remote lamp heads simultaneously





LED Lamp Head Nickel-Cadmium Battery



Easily removed mounting knockouts. Conduit entry knockout for 1/2" flexible conduit. J-box pattern on back panel. Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/ LISTINGS — UL damp location listed standard 50°-104°F (10°-40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. WARRANTY — 5-year limited warranty. (Battery is prorated). Complete warranty terms located at www.AcuityBrands.com/CustomerResources/Terms_and_Conditions.aspx. Note: Actual performance may differ as a result of end-user environment and application.

ORDERII	NG INFORMATION	Le	ad times will va	imes will vary depending on options selected. Consult w					les representative.		Example: LHQM LED G
LHQM		LED									
Family		Lamp type		Housing color		Letter color		Options			
LHQM	Stencil face, single face plate with extra face plate	LED	Two 1.5W/9.6V white LED	(blank) B	White Black	R G	Red Green	HO HO RO SD	High-output Ni-cad battery High-output option, less lamp heads Self-diagnostics	NOM NOM SALIDA	Meets Mexican standards¹ Salida signage (non-UL)²

Accessories: Order as separate catalog number.						
ELA Q L0309 SD	Single LED indoor remote head, white, self-diagnostics 3,4,5	ELA WG3	Wireguard, 30"W x 13-1/2"H x 6"D6			
ELATQL0309SD	Twin LED indoor remote head, white, self-diagnostics 3,4,5	ELA WG2M	Wireguard, 21-1/4"W x 15"H x 12"D ⁶			
ELA QWP L0309 SD	Single LED weather-proof remote head, gray, self-diagnostics 3,4,5	ELA LQMUS12	12" white stem kit ⁷			
ELAT QWP L0309 SD	Twin LED weather-proof remote head, gray, self-diagnostics 3,4,5	ELA LED M12	Single LED remote lamp ^{8,9}			
ELA Q L0309	Single LED indoor remote head, white ^{4,5}	ELA LED T M12	Twin LED remote lamp ^{8,9}			
ELA T Q L0309	Twin LED indoor remote head, white ^{4,5}	ELA LED WP M12	Single LED Weather proof remote lamp 8,			
ELA QWP L0309	Single LED weather-proof remote head, gray ^{4,5}	ELA LED T WP M12	Twin LED Weather proof remote lamp 8,9			
ELA T QWP L0309	Twin LED weather-proof remote head, gray ^{4,5}					

FEATURES & SPECIFICATIONS

INTENDED USE — Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for mounting heights from 7.5' to 30'. Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.

CONSTRUCTION — The housing is a standard white (black optional) thermoplastic with a compact and low-profile contemporary design. It is 5VA flame rated, impact-resistant, scratch-resistant and corrosion proof. The UV-stable resin resists discoloration from natural and man-made light sources. There is a low-profile, integrated and back-lit test switch with an easily visible multi-color LED status indicator. The back-plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance. **US Patents Pending**. The lamp heads have a unique track-and-swivel arrangement permitting full range of direction of

OPTICS — The ELM4L features two high-performance LEDs rated at 3.3 watts per lamp head and delivers a total of 640 lumens in a spot pattern (SP640L) The ELM6L features three high-performance LEDs rated at 5.3 watts per lamp head and delivers a total of 1,100 lumens in a spot pattern (SP1100L). The typical life of an LED is 10 years. The LED light sources typically never need to be replaced under normal

conditions for normal off applications. **ELECTRICAL** — Orderable in multiple voltages (see ordering tree for specific voltages.) Current-limiting charger maximizes battery life and minimizes energy consumption to meet California Energy Commission Title 20 requirements for small battery charger systems and provides low operating costs. Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts. Regulated charge voltage maintains a stable charge voltage over a wide range of line voltages.

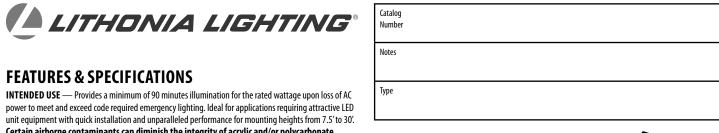
Prevents over/undercharging that shortens battery life and reduces capacity. Filtered charger input minimizes charge voltage ripple and extends battery life. BATTERY: Sealed, maintenance-free nickel-cadmium (ELM4L only) or Lithium Iron Phosphate battery Optional High-Output (HO option) and Extra High Output (EHO option), LTP battery type only, provides a wide variety of remote capacities and/or extended run-times. SELF-DIAGNOSTICS and REMOTE TEST (SDRT option): Automatic 24-hour recharge after a 90-minute discharge.

Advanced electrical design provides constant light output throughout the entire discharge period. Brownout protection is automatically switched to emergency mode when supply voltage drops below approximately 80 percent nominal of 120, 220, 277 or 347. Other input voltages may vary. AC/LVD reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Self-Diagnostics: Continuously monitors AC functionality. Test switch and remote tester (ELA LRT accessory) provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Standard derangement monitoring will indicate disconnected battery, charger failure and displays green flashing indicator light while in emergency mode. Single multi-chromatic LFD indicator to display two-state charging, test activation and three-state self-diagnostics

Self-diagnostic testing: Five minutes every 30 days and 90 minutes annually. Diagnostic evaluation of lamps, AC to DC transfer, battery charging and condition of microprocessor. Automatic test is easily postponed for eight hours by activating manual test switch or use of remote tester (ELA LRT accessory). **INSTALLATION** — Wall and ceiling mount standard. Blind-mate connector ensures easy installation and safe maintenance. 7/8" entrance provision at top of unit for standard 1/2" conduit entry. Tool-less removal of front cover from back-plate for ease of installation and maintenance. LISTINGS — UL damp location listed standard and wet location listed when used with the WPV accessory, all at 50-104°F (10-40°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101

(current Life Safety code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC and OSHA. List and labeled to comply with Canadian Standards C22.2 **WARRANTY** — 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx NOTE: Actual performance may differ as a result of end-user environment and application.

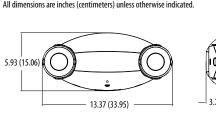


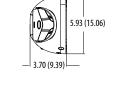


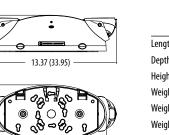


LITHIUM IRON PHOSPHATE NICKEL CADMIUM









Length: 13 3/8 (33.95) Depth: 3 45/64 (9.39) Height: 5 15/16 (15.06) Weight: ELM4L 3 lb (1.4kg) Weight: ELM6L 3 lb (1.4kg) Weight: ELM6L HO 3.5 lbs (1.59 kg) Weight: ELM6L EHO 3.75 lbs (1.7 kg)

BC CONTINUE FC NOM CUL US

1.01 GENERAL NOTES All Contractors shall have and maintain Contractor's Liability Property Damage Insurance and Workman's Compensation Insurance. all phases of construction shall apply to local, state & federal safety laws. General Contractor shall protect adjacent properties and material from damage due to this construction, build all necessary barricades and furnish all necessary lighting and danger warnings. The Contractor shall verify all existing conditions at the site and be responsible for same. If there are any variations from these Drawings, he is directed to notify the Owner and/or Architect.

All plumbing and heating work shall conform with the local Health Department requirements, and with all other applicable codes and ordinances. All plumbing to conform to National Plumbing Code. All electrical work and materials must conform to the requirements of N.E.C.A., N.B.F.U., and the local utility company.

All workmanship and materials shall be guaranteed for one year from date of Owner's acceptance. All work and materials must conform to all applicable local, state,

and federal codes. Mechanical and electrical work shall be confined to the space and locations allowed. If there is any change from these Drawings, the

Owner and/or the Architect must be notified.

1.02 SCOPE OF WORK The Contractor shall supply all materials, fixtures, appliances and labor necessary to complete all work noted on plans and as otherwise required. All materials shall be new and free from any defects. All work shall be performed in a competent, workmanlike manner acceptable with modern practice.

All dimensions and locations as indicated on the Drawings shall be considered as reasonably correct, but it shall be understood that they are subject to modifications as may be necessary or desirable at the time of installation to meet any unforeseen or other conditions. Patch and repair existing areas disturbed by construction activities, if applicable.

Upon completion of the work, remove all paint and varnish spots from the floor, glass, tile, etc. and leave all doors and sash free to move properly. All hardware shall be in perfect operation. Remove from premises all rubbish and accumulated materials of whatever nature, except as indicated by Owner. Floors shall be left in a clean, orderly condition acceptable to the Owner and ready for occupancy. section 2 - MATERIALS

2.02 FRAMING MATERIALS: METAL

Studs and Tracks: ANSI/ASTM C645; galvanized sheet steel, 26 gauge (0.5mm) thick, "C" shape.

Furring, Framing and Accessories: ANSI/ASTM C645.

shall be full height to ceiling or roof construction above.

mechanical work placed in or behind partition framing.

Fasteners: GA201 and GA216. Adhesive: ANSI/ASTM C557

Install studding in accordance with manufacturer's instructions. Metal stud spacing should be 16 inches on center. Partition heights

Install double studs at door frame jambs. Install stud tracks on each side of opening, at frame head height, and between studs and adjacent

Nail wood blocking to studs. Install blocking for support of wall cabinets, toilet accessories, and hardware. Coordinate installation of bucks, anchors, blocking, electrical and 2.03 GYPSUM BOARD MATERIALS

Available in black or white, Consult factory for options.

Only compatible with self-diagnostic option. (ex: HO SD) Also available in black. Add "B" after ELA to order black

Only compatible with HO option . See spec sheet <u>ELA-Q-LED</u>.

See spec sheet <u>ELA-Stemkits</u>.
See spec sheet <u>ELA LED</u> (Contractor Select LED Remotes)

Only available in white. NOM standard.

finish. Example: ELA B Q L0309

See spec sheet <u>ELA-WG</u>.

Not available with SD.

Standard Gypsum Board: ANSI/ASTM C36; 1/2 inch thick (or as shown on drawings), maximum permissible length; ends square cut, tapered square

Fire Rated Gypsum Board: ANSI/ASTM C36; fire resistive type, UL rated; 5/8 inch thick (or as shown on drawings), maximum permissible length; ends square cut, tapered square edges.

Moisture Resistant Gypsum Board: ANSI/ASTM C630; 1/2 inch thick (or as shown on drawings), maximum permissible length; ends square cut, tapered square edges.

Treat joints with three coats compound, Finish smooth and even. All gypsum board materials shall be the products of the U.S. Gypsum Company, delivered to the site in the original, unopened containers or bundles. Store materials in a place protected from moisture and use in strict accordance with manufacturer's specifications.

Installation:

A. Lower 4 ft. of walls of kitchen, toilet rooms, janitor's closets shall be moisture resistant gypsum board.

B. All screw heads shall be neatly spackled and sanded and all joints taped, spackled and sanded level. C. All walls shall be prepared to receive paint or wallcovering as

shown on finish schedule

2.05 ACCESSORIES Acoustical Insulation: FS-HH-I-521; preformed mineral wool, friction fit type without integral vapor barrier membrane, 2 inch thick.

Corner Beads: Metal.

Edge Trim: GA201 and GA216; Type LC bead. Joint Materials: ANSI/ASTM C475; reinforcing tape, joint compound,

adhesive, water and fasteners. 2.09 PAINTING

Finishes shall be as follows:

1. Interior Gypsum Board: One (1) coat primer-sealer Two (2) coats latex finish paint

2. Interior Wood Trim: One (1) coat primer Two (2) coats enamel finish paint

section 3 - EXECUTION

3.01 WORKMANSHIP

No painting or finishing shall be done when the air is dust-laden nor when weather and temperature conditions are unsuitable. Temperature within the building shall be maintained at a minimum of 60 degrees F, during the painting and drying periods.

All edges of wood doors shall be given the same kinds of and number of coats as specified for the faces.

All coats shall be dry before succeeding coats are applied. Allow a minimum of 24 hours between applications on any one surface, unless otherwise specified by the manufacturer. Undercoats shall be tinted a lighter shade to facilitate identification of each coat where multiple coats of the same material are to be applied.

2.12 DOORS

Flush doors shall be 1-3/4" thick wood veneer doors or equal to Mohawk commercial series drawings for all doors, which are to have an underwriter's label.

All hollow metal frames shall be combination frame and flat trim with corners mitered, welded for full length to fit and ground smooth. Install three (3) T-shaped anchors for each jamb for anchoring into bucks to assure proper alignment. All bucks shall be properly

Frames shall be formed of grade #16 gauge sheet steel

All frames shall be drilled for door silencers.

All hollow metal doors and frames shall be given one shop coat of gray primer.

Kentile, Armstrong or Flintkote. Excelon vinyl-composition tiles manufactured by Armstrong. Color to be as selected by Owner and/or Architect.

Base to be 0.080 gauge, 4" high cove base with preformed internal and external corners as manufactured by Armstrong. Color to be as selected by Owner and/or Architect.

subject to the approval by the Architect. Deliver in sealed containers and use without the addition of any unauthorized materials.

All plumbing work shall conform with the local health department requirements and shall be subject to the approval of the Plumbing

Vented piping inside building shall be PVC or type DWV copper pipe and fittings. Soil pipe and fittings shall be PVC.

Fixture colors to be as selected by the Owner

section 5 - HVAC

plan for locations

Drawings to require these systems to be furnished complete in every respect, furnish all wiring and equipment needed and usually furnished in N.E.C.A., N.B.F.U. and the local utility company.

After complete connections and installation of all the equipment and appliances, test all work and equipment as required by authorities having jurisdiction, furnish all necessary equipment, personnel and electrical power. Test the entire installation for shorts, grounds and open circuits, and correct all defects before acceptance of the work. All work shall be demonstrated to be in proper operating condition to the complete satisfaction of the Architect. Instruct the Owner in the care

veneer surface, particleboard core doors. Refer to the door schedule or the

masonry. Steel angle spreaders shall be welded at the bottom of door reinforced, cut, drilled, etc., ready for finished hardware.

2.14 VINYL FLOOR TILE AND BASE Vinyl composition floor tile shall be equal to that product by

Cement shall be as recommended by the manufacturer of the tile used,

section 4 - PLUMBING

Water supply piping shall be Pex.

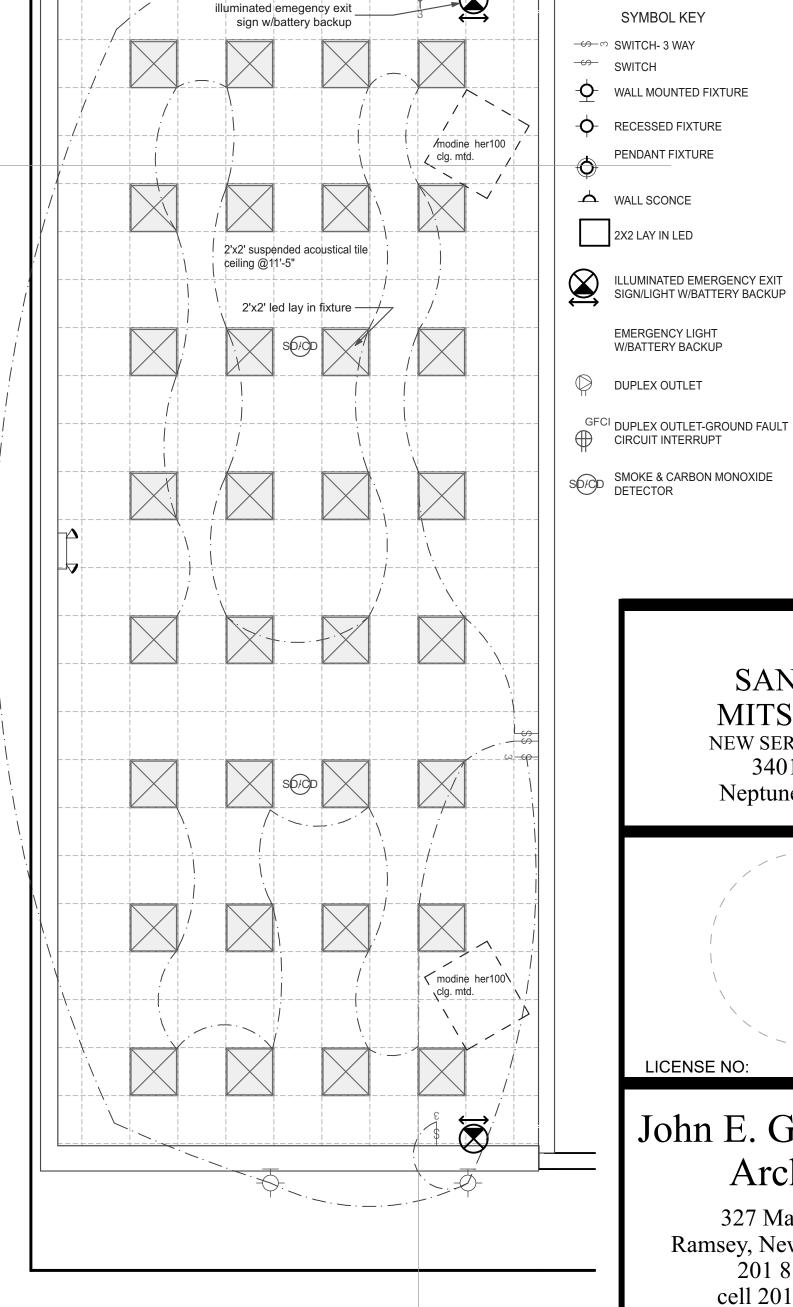
Service bay to be heated with (2)ceiling mounted Modine heaters, see

Furnish all labor, material and equipment necessary for the complete installation of the Electrical work as shown on the Drawings, including final connections to equipment in accordance with the National Electrical Code, State Electrical Code, the requirements of the local Utility Company, and all applicable codes and laws. Install all fixtures as supplied by Owner where indicated on Drawings. It is the intent of this Section of the Specifications and accompanying Electrical connection with such work, whether specifically mentioned or not. All electrical work and materials must conform to the requirements of

and operation of all apparatus and equipment forming the installation.

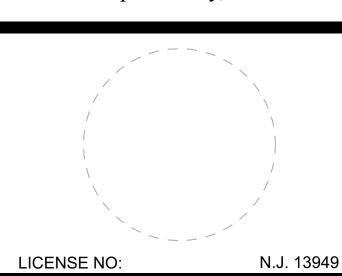
TYPICAL OFFICE OR CONFERENCE ROOM LOCATION OF STROBE LIGHT AND THERMOSTAT TO BE ON THE CENTER LINE OF THE LIGHT SWITCH. AV CONTROL DEVICE, COORDINATE -WITH AV DRAWINGS BY OTHERS POWER RECEPTACLE OR TELE/DATA OUTLET. SYSTEM FURNITURE FEEDS FOR POWER & VOICE/DATA FROM A WALL OR COLUMN. VERIFY DIM. W/ FURNITURE VENDOR PRIOR TO 988 INSTALLATION (TYP)

TYPICAL MOUNTING OF OUTLETS (U.O.N.) **ELEC-MOUNTING**



Reflected Ceiling Plan (7)

SANSONE **MITSUBISHI** NEW SERVICE DRIVE 3401 NJ-66 Neptune City, N.J.



John E. Giammarino Architect

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CD	01.20.22	REVIEW
DD	01.02.22	DRAFT
MARK	DATE	DESCRIPTION

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SHEET TITLE

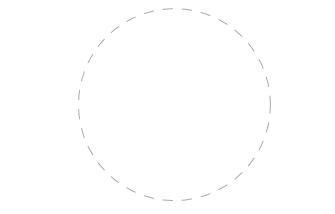
Ceiling Plan & Details

A-002

SHEET 2

— cont. alum. coping w/drip edge

SANSONE
MITSUBISHI
NEW SERVICE DRIVE
3401 NJ-66
Neptune City, N.J.



LICENSE NO:

N.J. 13949

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DRAWN BY: JEG

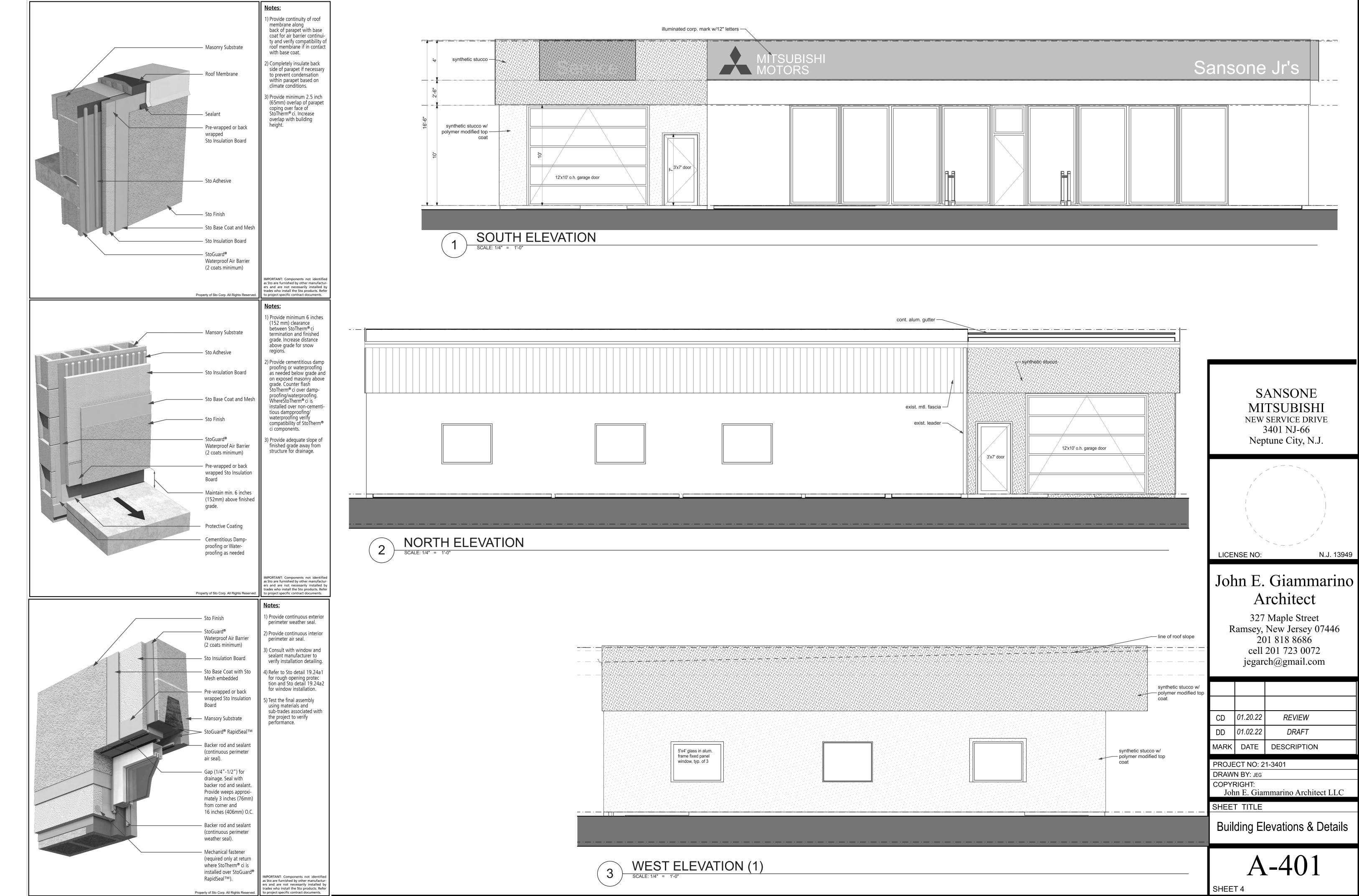
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SHEET TITLE

SHEET 3

Wall Sections

A-003

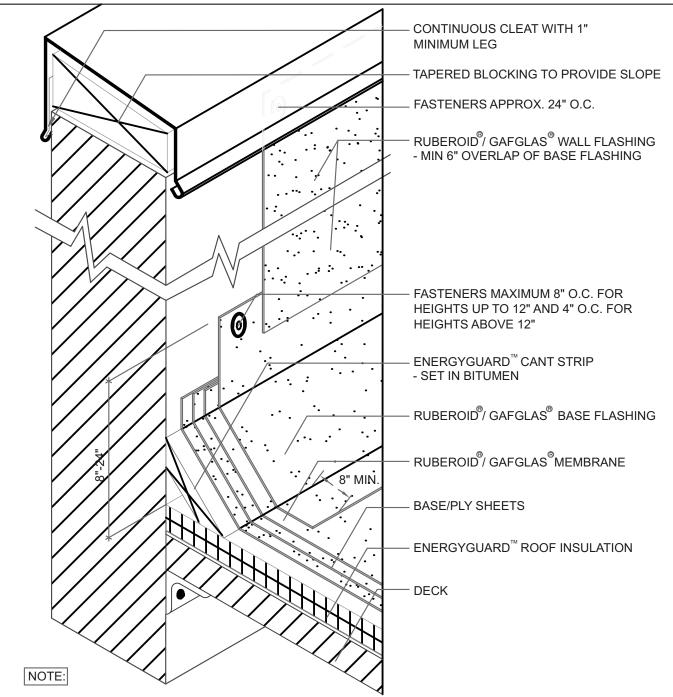


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1. WHEN PARAPET WALL EXCEEDS 24" IN HEIGHT, REFER TO DETAIL MB/BUR 6, "HIGH PARAPET WALL." 2. MASONRY WALLS TO BE PRIMED PRIOR TO FLASHING. WOOD WALLS REQUIRE BASE SHEET NAILED TO WALL 8" O.C. ALONG TOP AND LAPS AND 8" O.C. THROUGHOUT THE FIELD OF THE BASE SHEET ON THE WALL. 3. BASE FLASHING ON ALL 15 AND 20 YEAR GUARANTEE SYSTEMS MUST HAVE A BASE PLY. REFER TO FLASHING MEMBRANE APPLICATION AND FLASHING SPECIFICATION PLATES.

4. SEALANT AT TOP OF SURFACE MOUNTED COUNTER FLASHING IS A MAINTENCE ITEM AND MUST BE MAINTAINED THROUGHOUT THE LIFE OF THE ROOF TO ENSURE A WATER TIGHT SEAL

8	GAFGLAS	WALL FLASHING WITH SURFACE	DRAWING#	SYSTEM
GVE	Built-Up Roofing Systems		05	MB/BUR
C1/=11	RUBEROID Modified Bitumen Roofing Systems	MOUNTED COUNTERFLASHING		
GAF MATERIALS CORPORATION			SCALE	ISSUE/ REVISION DATE
www.gaf.com			N.T.S.	11-01-10

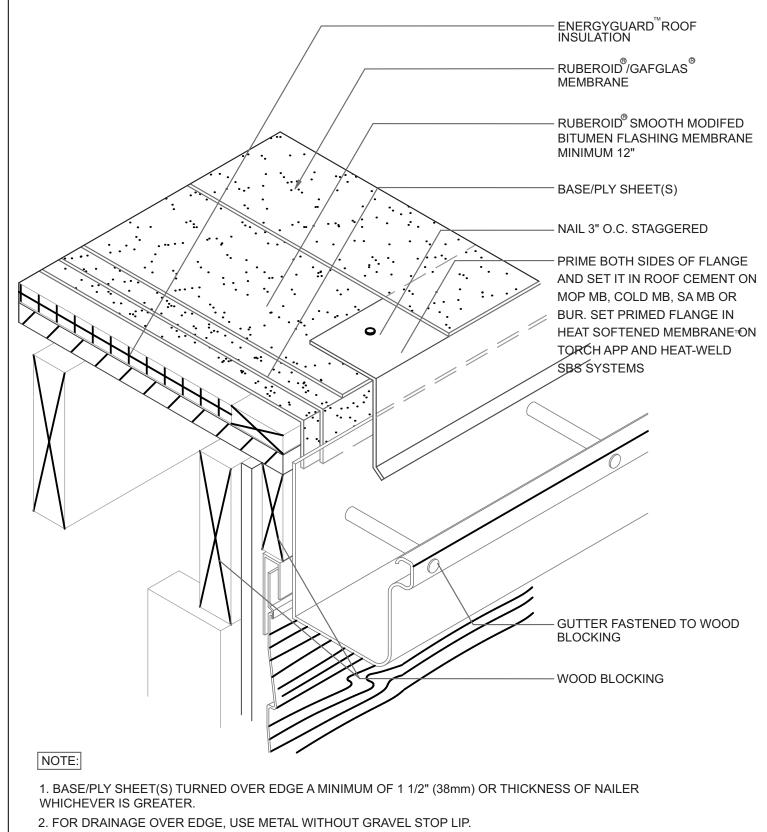


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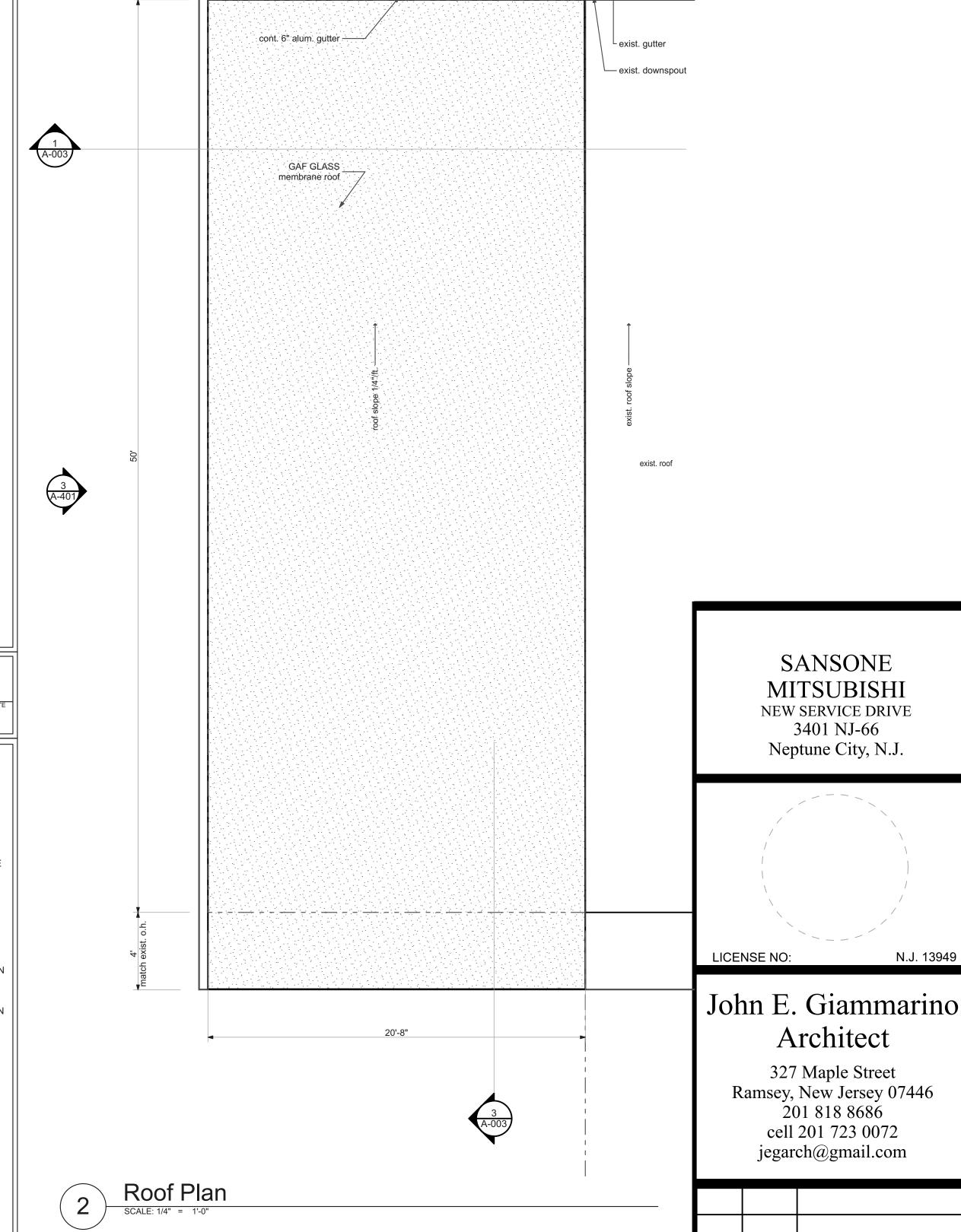
3. FASTEN BASE FLASHING APPROXIMATELY 8" O.C. FOR HEIGHTS UP TO 12" AND 4" O.C. FOR HEIGHTS UP TO 24".

4. FOR WALL FLASHINGS IN EXCESS OF 4' CONTACT GAF TECHNICAL SERVICES AT 1-800-ROOF-411. 5. BASE FLASHING ON ALL 15 AND 20 YEAR GUARANTEE SYSTEMS MUST HAVE A BASE PLY. REFER TO FLASHING MEMBRANE APPLICATION AND FLASHING SPECIFICATION PLATES.

Ш	8	GAFGLAS		DRAWING#	SYSTEM
	CAE	Built-Up Roofing Systems	HIGH PARAPET WALL DETAIL	06	MB/BUR
	CIVAL	RUBEROID Modified Bitumen Roofing Systems			,
Ш	GAF MATERIALS CORPORATION			SCALE	ISSUE/ REVISION DATE
	www.gaf.com			N.T.S.	11-01-10



	GAFGLAS Built-Up Roofing Systems RUBEROID Modified Bitumen Roofing Systems	PERIMETER GUTTER DETAIL	28	MB/BUR
GAF MATERIALS CORPORATION www.gaf.com			SCALE N.T.S.	ISSUE/ REVISION DATE 10-01-10



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SHEET TITLE

Roof Plan & Details

SHEET 5