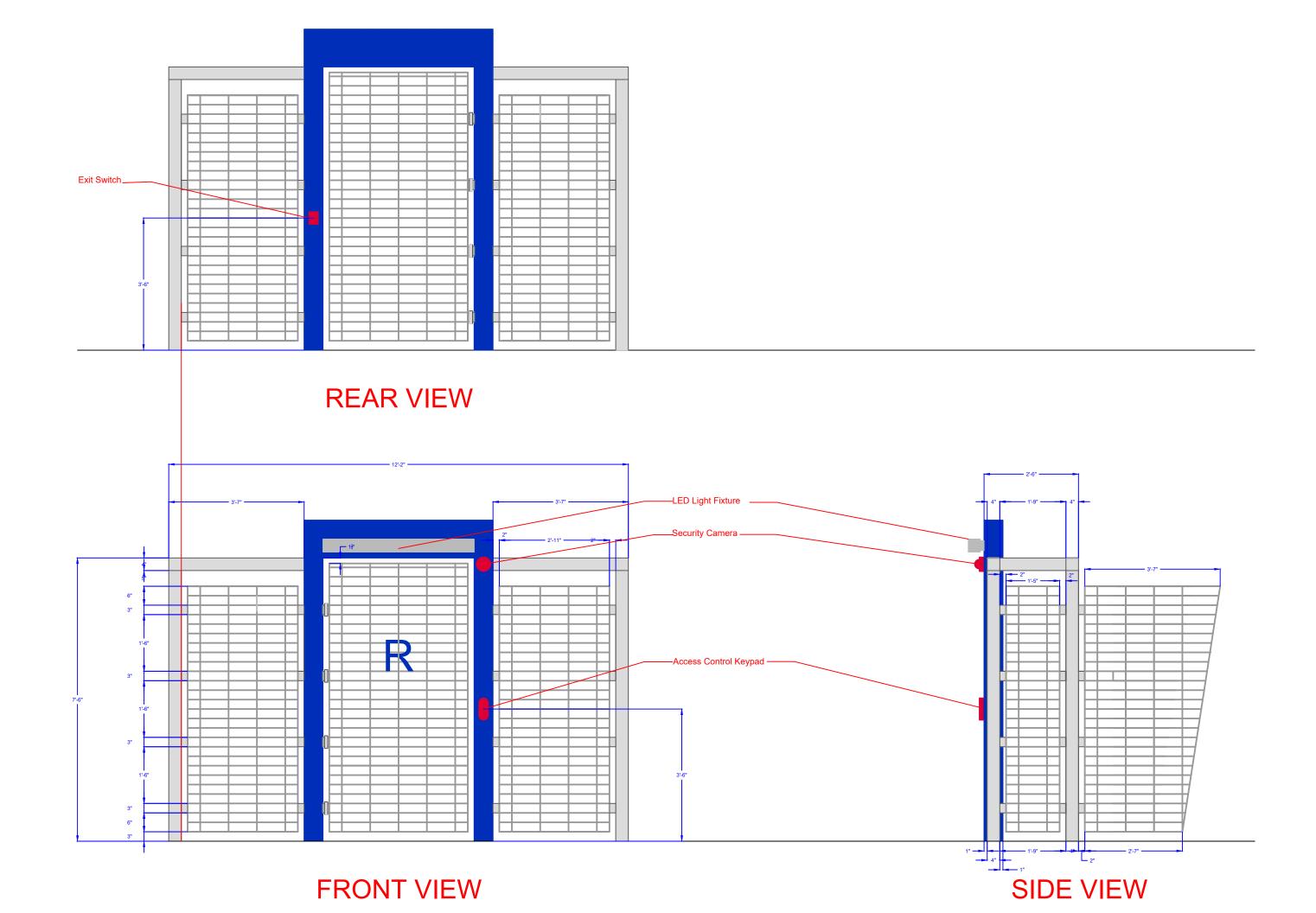
WESTREC MARINA MANAGEMENT, INC. ON BEHALF OF THE CHICAGO PARK DISTRICT

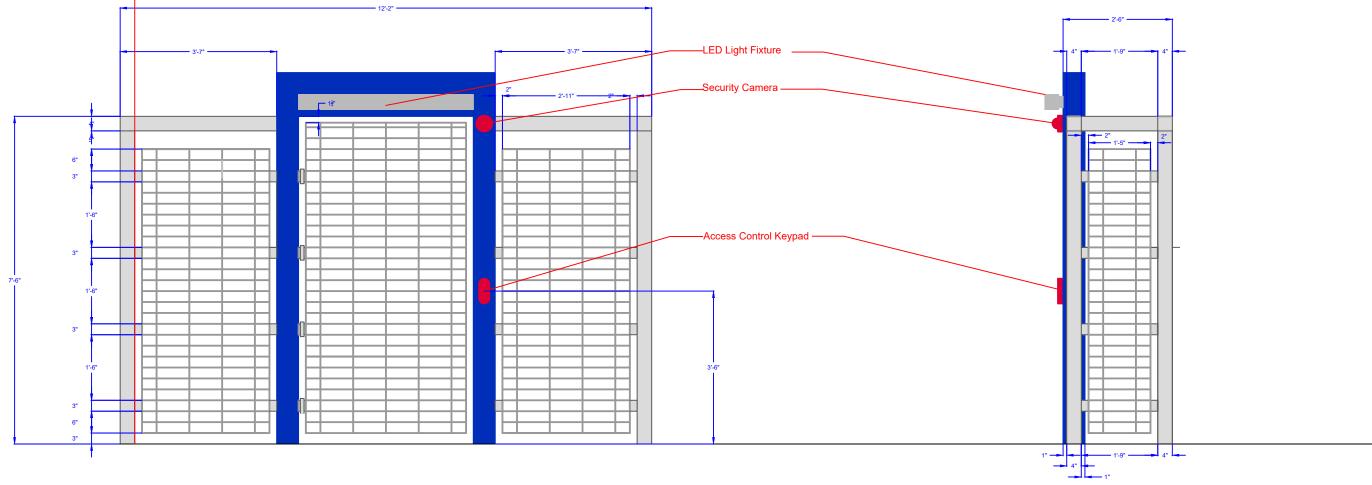
FOR CONSTRUCTION OF DOCK GATES INVITATION FOR BID W-19001





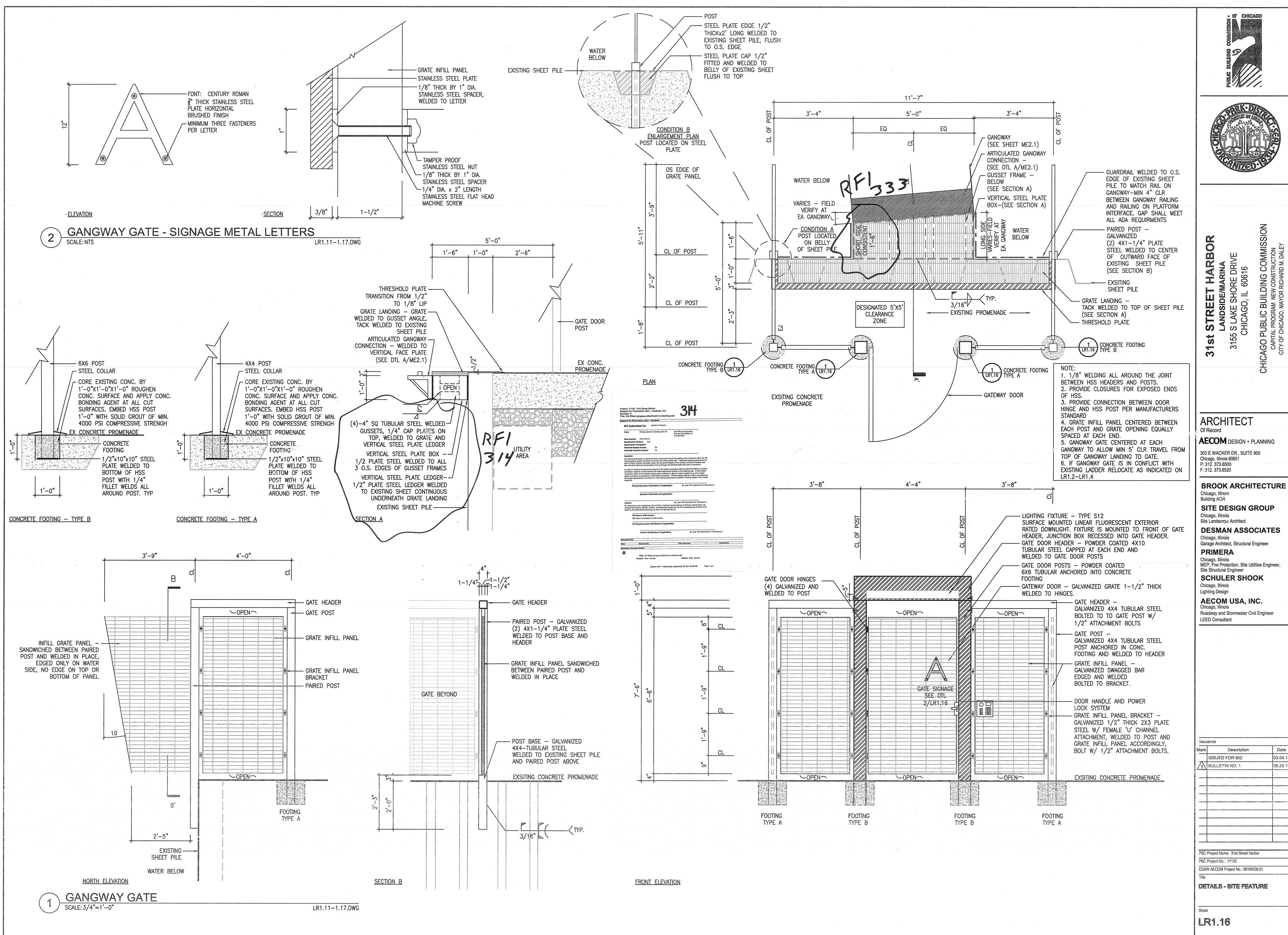
BATHROOM GATE

REAR VIEW



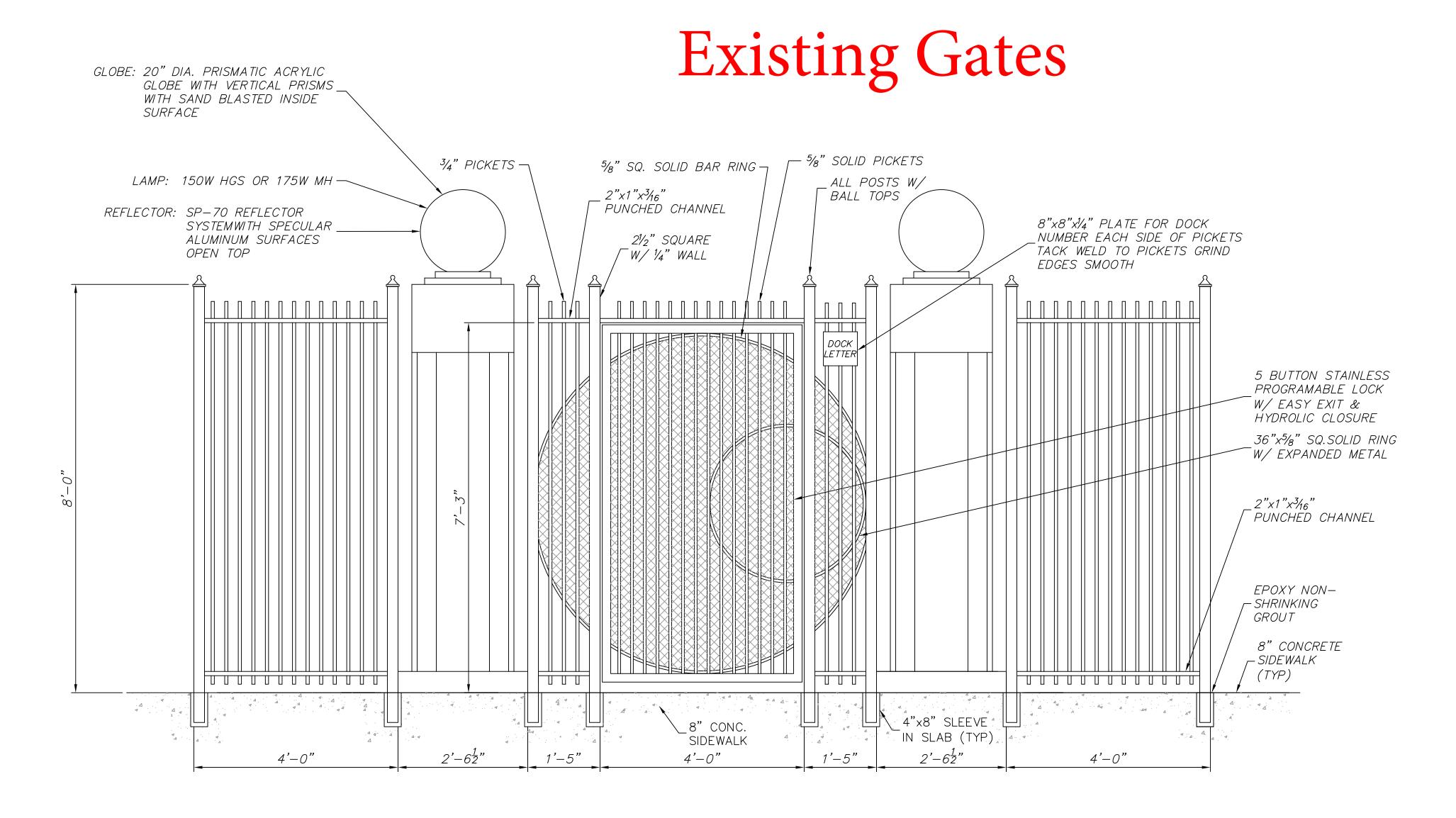
FRONT VIEW

SIDE VIEW

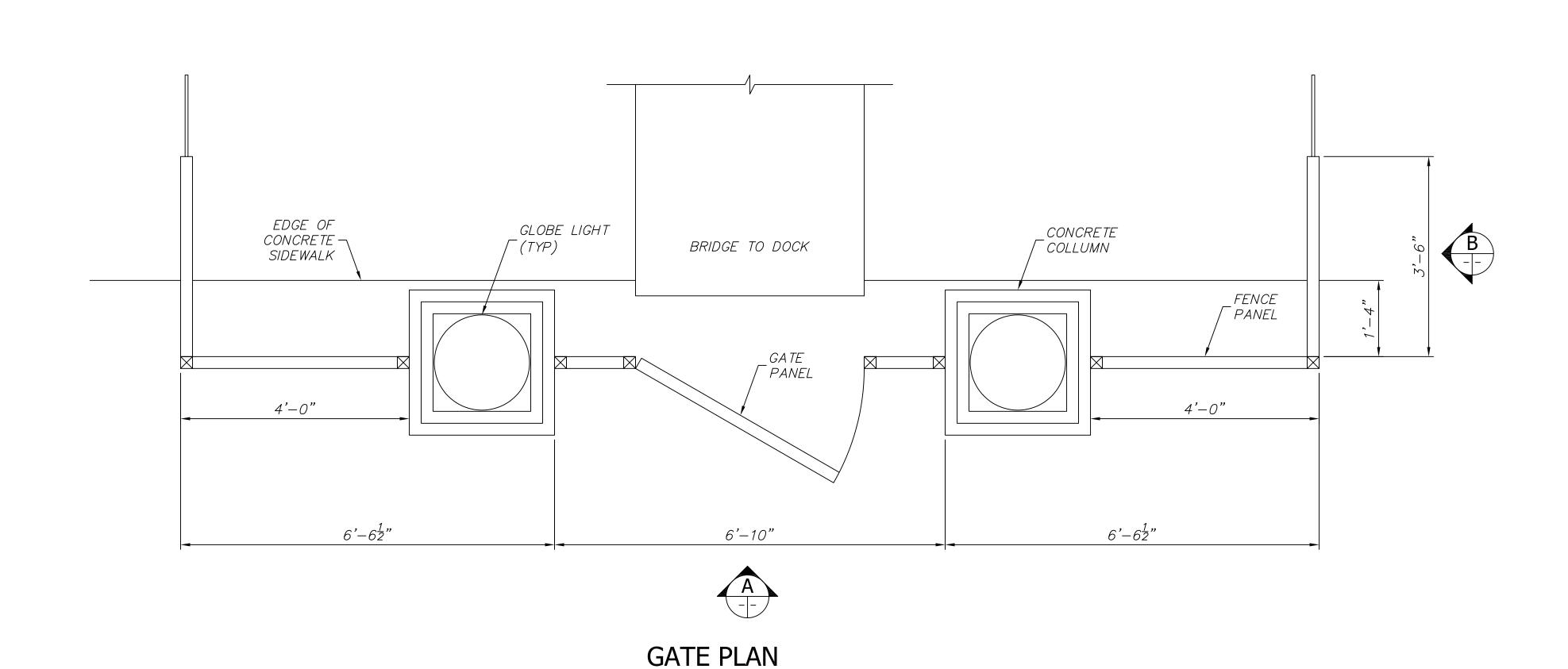




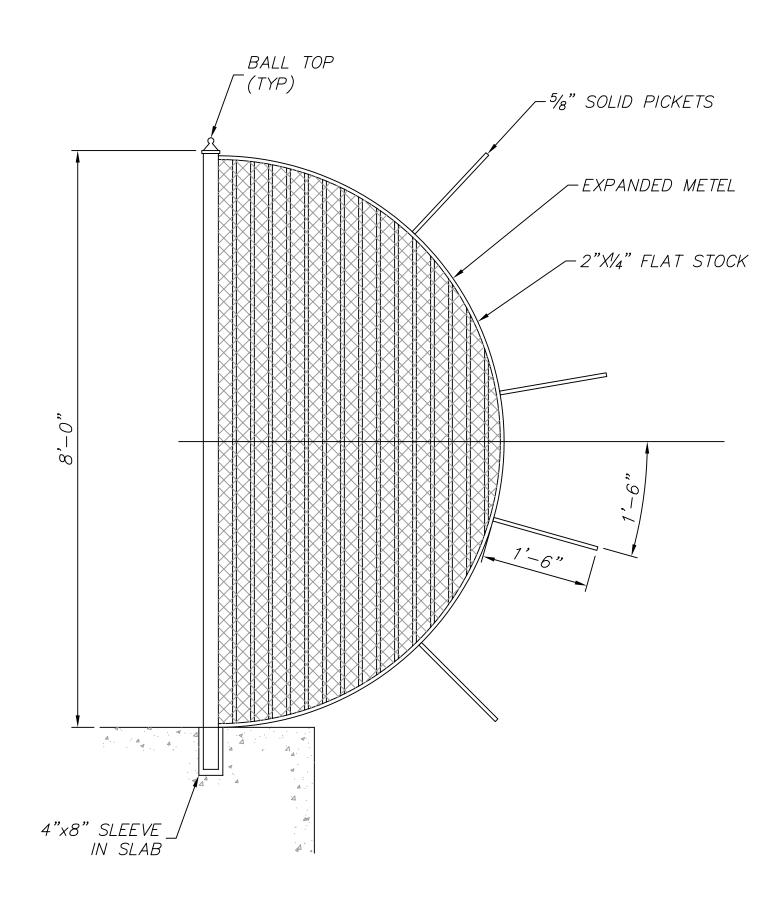
Date 03.04.10 06.25.10



ELEVATION 'A' SCALE: 3/4" = 1'-0"



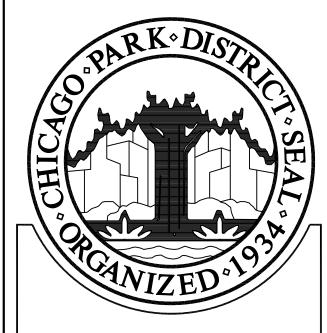
SCALE: $\frac{3}{4}$ " = 1'-0"



ELEVATION 'B'

SCALE: 3/4" = 1'-0"

1 GATE DETAILS
SCALE: 3/4"=1'-0"



CHICAGO PARK DISTRICT

541 N. Fairbanks Ct. Chicago, Illinois 60611 Ph. 312-742-8520

E
D
C
B

REVISIONS DATE

PROJECT MANAGER:
WESTREC MARINA
MANAGEMENT, INC.
541 N. FAIRBANKS CT.,
SUITE 1020
CHICAGO, IL 60611
(312) 747-0737
westrec
@westrecchicago.com

DRAWN:

CHECKED:

SCALE: SEE DWG

DATE:

SPEC. NO.:

W.O. NO.:

| SHEET INFORMATION

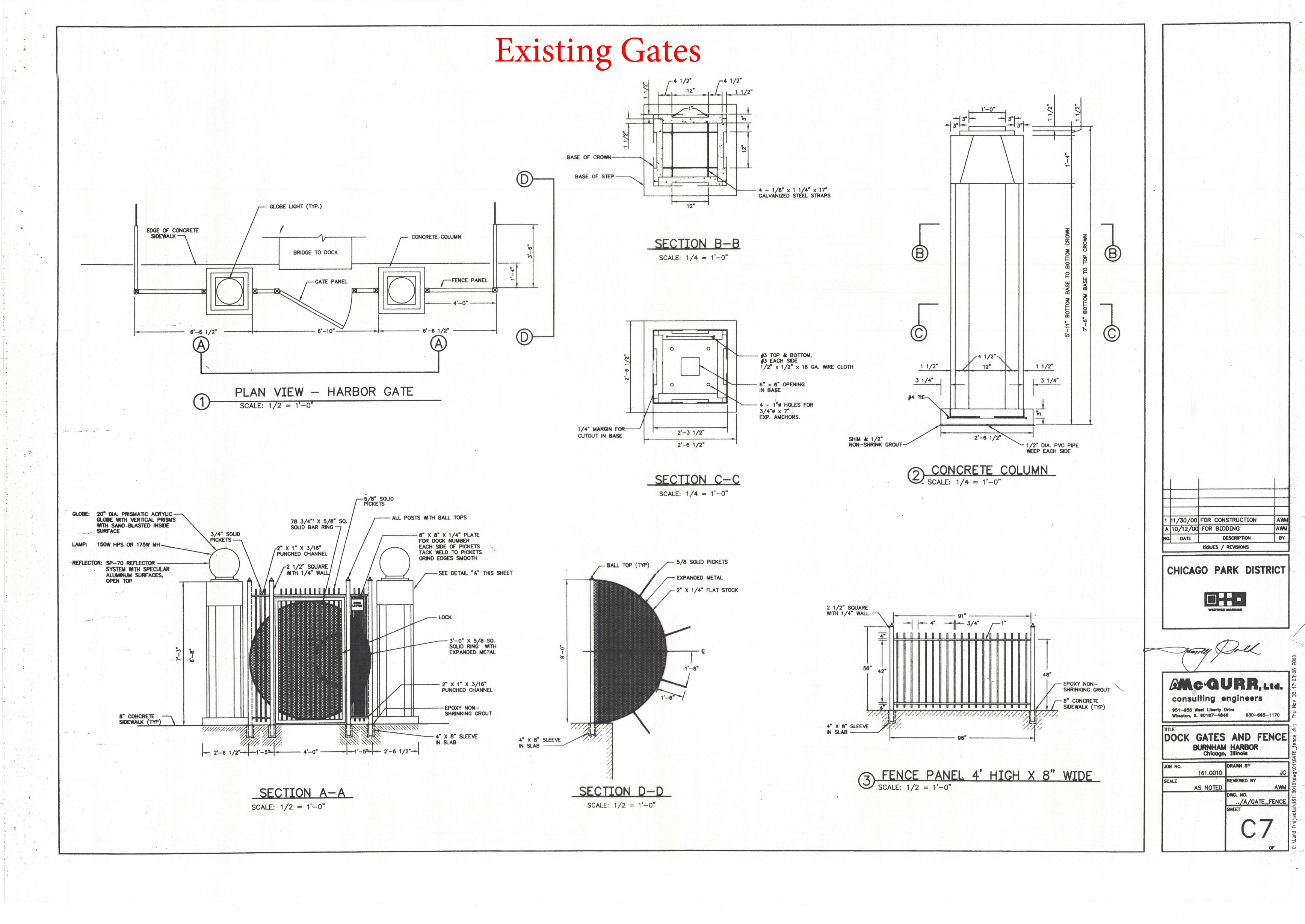
BURNHAM
HARBOR
MARINA
EXTENSIONS

PARK NO./PROJECT NO.

G-1.0

DRAWING NO.

© CHICAGO PARK DISTRICT



Application

The LED wall mounted luminaire has light output on one side. Arranged individually or in groups, this is a great design element for a host of lighting applications. For downlight applications only.

Luminaire housing constructed of die-cast and extruded marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy

Matte safety glass

High temperature silicone gasket

Mechanically captive stainless steel fasteners

NRTL listed to North American Standards, suitable for wet locations

Protection class IP65 Weight: 20.9 lbs

Electrical

Operating voltage 120-277VAC -30° C Minimum start temperature LED module wattage 23 W System wattage 27 W

Controllability 0-10V dimmable

Color rendering index Ra > 80

1228 lumens (3000K) Luminaire lumens Lifetime at Ta = 15° C >500,000 h (L70) Lifetime at Ta = 50° C 182,000 h (L70)

LED color temperature

4000K - Product number + K4 3500K - Product number + K35 3000K - Product number + K3 2700K - Product number + K27

BEGA can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

Finish

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness.

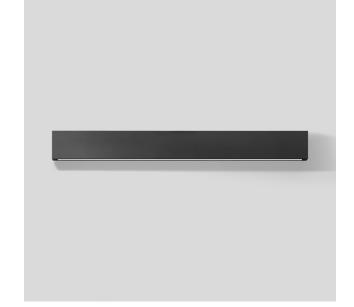
Available colors Black (BLK) White (WHT) RAL:

Bronze (BRZ) Silver (SLV) CUS: Type:

BEGA Product:

Project:

Modified:





LED wall lu	ıminaire · light o	utput on	one sid	е	
	LED	А	В	С	Required wiring box
44418	23 W	48	4 1/8	5	19537

Tools Required:

Philips medium screwdriver 4mm hex key 6mm hex key



Dimensions

A: 48 "

B: 4-1/8 "

C· 5 "



Protection Class: IP65

Weight: 18.7 lbs.

Notice to Installer for 44 418:

- 1. For attachment to wall over separate small opening linear wiring box (19 537 provided by BEGA).
- 2. For downlight applications only.
- 3. Wiring box needs to be recessed into wall and must be flush with the finished surface.
- 4. In conformance with UL Standard 1598, a silicone based sealant MUST be used between luminaire and supporting wall.
- 5. WARNING: LEDs are high quality electrical components. Please avoid touching them directly during installation.

19 537 - wiring box installation:

Hollow (stud) wall construction - Secure wiring box to wood or metal horizontal blocking as shown in Fig 1. Connect conduit to wiring box (if needed) and pull wires for electrical connections to be made later.

Poured concrete construction - Attach wiring box to the concrete form. Connect conduit to wiring box (if needed) and pull wires for electrical connections to be made later. Pour concrete and remove form.

IMPORTANT: Do not pour concrete directly on to box!

44 418 - Luminaire Installation:

- 1. Loosen (2) 6mm set screws and remove luminaire main casting off of mounting plate.
- 2. Feed luminaire wires through rear opening of luminaire and through mounting plate wireway hole.
- 3. Make supply wiring and luminaire wiring connections inside the small opening linear wiring box:

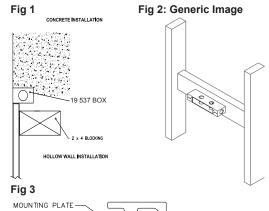
MAIN VOLTAGE SUPPLY WIRE TO BLACK LUMINAIRE WIRE NEUTRAL (COMMON) SUPPLY WIRE TO WHITE LUMINAIRE WIRE GREEN GROUND WIRE TO GREEN LUMINAIRE WIRE.

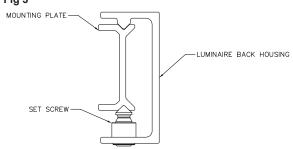
Dimming (if applicable):

DIMMING CONTROL WIRE (+) TO POSITIVE DRIVER DIM **CONTROL WIRE**

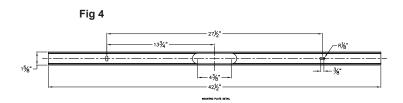
DIMMING CONTROL WIRE (-) TO NEGATIVE DRIVER DIM **CONTROL WIRE**

- 4. Place a small bead of silicone around the back side of the luminaire base that will come in contact with the finished wall (exterior applications only).
- 5. Attach and secure mounting plate to wall using hardware by others (minimum screw size 8-32 screws). Orient to make sure down arrow is pointing down.
- 6. Mount luminaire to mounting plate using (2) 6mm hex screws. Tighten screws evenly.





SECTION VIEW: MOUNTING DETAIL (NOT TO SCALE)



Relamping/Maintenance

No relamping necessary.

Accessories

Please refer to the appropriate accessory installation sheet for further instruction when applicable.

Linear wiring box 19 537

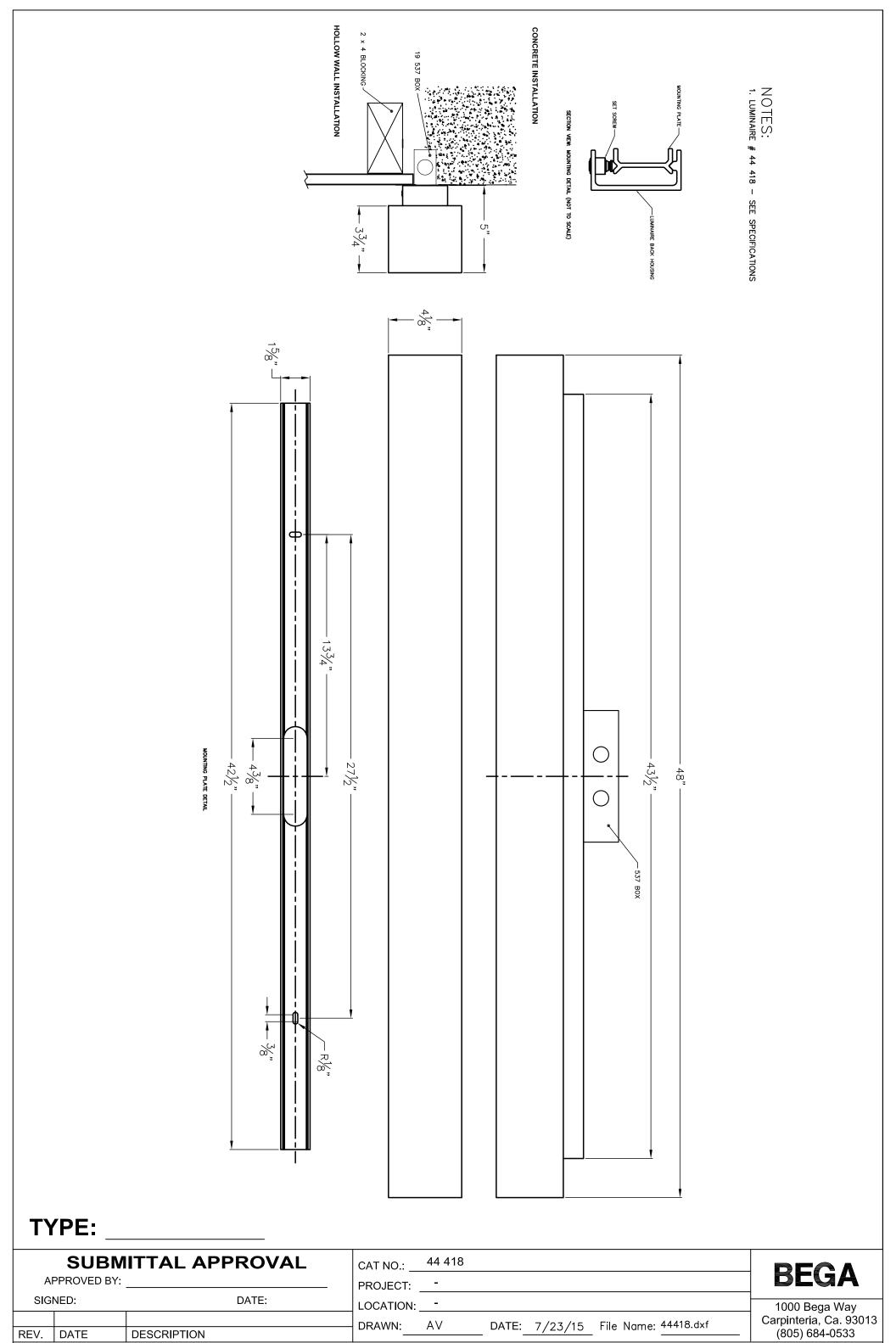
Replacement Parts

Description Part No

Face Plate FP4418 LED Driver (120-277V) 75989-03 LED replacement (3000K) LED-0377/830

LED replacement (4000K) LED-0377/840

39.6W LED Lamp:



This print contains confidential information which is the property of BEGA U.S. By acception this information, the borrower agrees that it will not be used for any other purpose other than that which is was loaned.



EK4036S

Fix Mount Button Electronic Photo Control



The EK4036S is an electronic photo control that fits in a standard outlet Model #: box, post lamp or light fixture. It is made within dimensional guidelines in ANSI C136-24 to assure fit within a large variety of fixtures and features a silicon light sensor with zero-crossing circuit to provide a long service life.

Features

- · Dusk-to-dawn control of outdoor lighting
- Floodlights and security lighting
- Ideal for LED fixtures totaling 1650 W @ 277 VAC
- Non-drifting silicon light sensor IR filtered for human eye response
- · Zero-cross technology helps device withstand severe inrush current and extends relay life
- Exceeds 10,000 ON/OFF operations at full load to match life expectancy of LED fixtures
- All components meet 15-year life requirements

Regulatory Listings

- ANSI C136.24 compliant
- UL certified to U.S. (UL773A) & CSA certified to Canadian (C22.2 No. 55-M1986/ TIL A-15) safety standards

Operating Specifications

- Voltage: 105-305 VAC, 50/60Hz
- Dielectric strength: 2500 VAC
- Operating ambient temperature range: -40°F to 158°F (-40°C to 70°C)
- Instant turn ON light level 1.5 fc
- OFF light level: 2.25 fc
- Turn OFF to ON ratio 1.5:1 with 2-5 second delay
- Fail mode: ON
- Power consumption <.5W @ 277 VAC
- 255 Joule MOV surge protection component
- 9" long, 18 awg wire leads

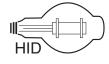
Warranty

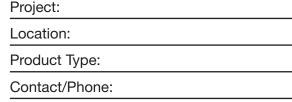
· Limited 8-year manufacturer's warranty

Compatible with

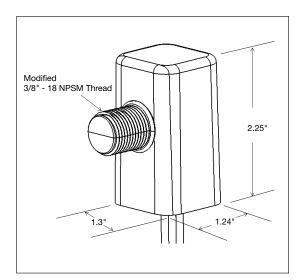


















Model Number	Max VAC	Tungsten (Watts)	Ballast (VA)	Electronic Ballast (LED)	Turn ON Foot Candles (fc)	Turn OFF to ON Ratio	Fail Mode
EK4036S	105-305	1000	1800	6 Amps	1.5	1.5:1 with 2-5 second delay (2.25 fc OFF)	ON

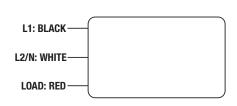


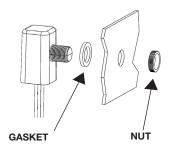


Specification

The photo control shall be an electronic control based on a solid-state photo sensor and relay switch circuit. Switch operation shall have a rating of 1000 Watts tungsten and 1800 Watts ballast at 105-305 VAC. For high inrush LED type fixtures, the photo control switch operation shall have a 6 Amp Electronic Ballast rating at 105-305 VAC. The photo control shall fail in an ON state. The photo control operating voltage shall be clearly identified on the control housing. The photo control shall be equipped with inherent delay action eliminating activation by light flashes. The photo control overall dimensions should meet guidelines in ANSI C136.24 and have 9" long, 18 awg wire leads. The photo control shall consist of industrial grade electronic components; 255 Joule MOV, solid state light sensor, and silver alloy relay contacts. The photo control shall be 100% factory tested and function within specified light levels. The photo control shall be agency certified and tested accordingly. The photo control shall meet agency standards and all other requirements of ANSI C136.24. The photo control shall operate over a temperature range of -40°F to 158°F (-40°C to 70°C). The photo control shall have a manufacturer's limited warranty of 8 years minimum. The photo control shall be the electronic dusk-to-dawn type, Intermatic model EK4036S.

Diagrams





Limited Product Warranty

(1) What is Covered By This Limited Warranty?

Intermatic Incorporated ("Intermatic") warrants Intermatic's EK4036S ("Product") to be free from defects in material or workmanship for a period of eight (8) years from date of purchase. This warranty is extended to the owner of the light fixture on which the photo control is installed only and it is not transferable ("purchaser"). If the purchaser discovers a defect in material or workmanship, the purchaser must promptly submit a warranty claim. Upon a determination by Intermatic that the Product is defective, Intermatic shall correct any defect in material or workmanship by replacing the Defective Product. Any repair to Product, including both parts and labor, shall be at Intermatic's expense. The foregoing remedy is the purchaser's exclusive remedy for a breach of warranty. The product must be installed in the appropriate application in complete accordance with the installation instructions. The Product must not be opened, modified, exposed to extreme heat or cold, submerged or subjected to abnormal use or service. Product failures due to damage by accident, dropping, or abuse in handling, acts of God, or any negligent use, are not covered by this warranty. Intermatic shall determine, in its sole discretion, whether any Product returned by a purchaser has been used in accordance with its instructions, is an appropriate model for the purchaser's use thereof, and whether the Product is defective.

(2) Disclaimer of Warranty

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESSED WARRANTIES. TO THE EXTENT ALLOWED BY LAW, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION OF THIS LIMITED WARRANTY.

(3) Limitation of Remedies

IN NO CASE SHALL INTERMATIC BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. SUCH EXCLUDED DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, DAMAGE TO SOFTWARE, LOSS OF DATA, LOSS OF PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME, THE CLAIMS OF THIRD PARTIES INCLUDING CUSTOMERS, DAMAGE TO PROPERTY AND PERSONAL INJURY. SOME STATES DO NOT ALLOW LIMITS ON WARRANTIES OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS, IN SUCH STATES, THE LIMITS IN THIS PARAGRAPH AND IN PARAGRAPH (2) MAY NOT APPLY.

(4) Time Limit for Bringing Suit

No action arising out of any claimed breach of warranty may be brought more than one year after the cause of action has occurred.

(5) No Other Warranties

Unless modified in writing signed by both parties, this agreement is understood to be the complete and exclusive agreement between the parties, superseding all prior agreements, oral or written, and all other communications between the parties relating to the subject matter of this agreement. No employee of Intermatic or any other party is authorized to make any warranty in addition to those made in this agreement. This warranty is made by: Intermatic Incorporated/After Sales Service, 7777 Winn Rd., Spring Grove, IL. 60081-9698/815-675-7000 http://www.intermatic.com

(6) Claim Procedure

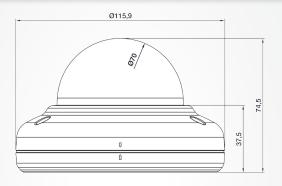
The warranty service is available by either (a) returning the product to the dealer from whom the unit was purchased, or (b) mailing the product, along with proof of purchase, postage prepaid, to the authorized service center listed below.

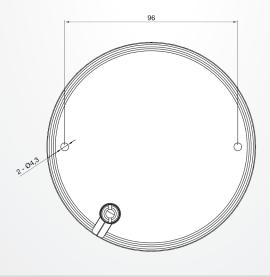
Address all communications and products returns to:

Intermatic Warranty Coordinator

7777 Winn Road Spring Grove, Illinois 60081-9698, Fax: 815-675-7055

1080p HD IR Compact Camera 2.1 Megapixel IP Micro Dome with IR





 $Amano\ reserves\ the\ right\ to\ change\ specifications\ without\ prior\ notice.\ Revision\ 1012$

Amano warrants this product against defects in material and workmanship under normal use and service for 36 months from the date of shipment. Full warranty statement available on request.

SPECIFICATIONS

CAMERA	
Image Sensor	SONY EXMOR 1/2.9" 1080p CMOS
Effective Pixels	1920 x 1080
AGC Control	Auto
Minimum Illumination	Color: 0.5 Lux / B/W: 0 Lux (IR LED On)
Lens	3.6mm, F2.0
Field of View	Horizontal: approx. 87°; Vertical: approx. 47°
Shutter Time	1/10,000s to 1/2s
Noise Filter	Supported (0 - 3)
Day & Night	True day & night (removable IR-cut filter)
Focus Assist	Supported
BLC	On (possible to designate zone) / off
Wide Dynamic Range	Digital WDR
Exposure Adjustment	+1.0, +0.6, +0.3, 0, -0.3, -0.6, -1.0 EV
IR LEDs	IR LED x 8 (850nm)
IR Range	10m (30IRE)
SMART IR	Supported
ONVIF Compliance	Profile S, Profile G

Video Security

Compression Format	H.264 baseline, main, high profile (MPEG-4 Part 10/AVC), MJP (Motion JPEG)
Number of Streams	Dual stream, configurable streams in H.264, MJPEG
Resolution 16:9 mode	1920 x 1080, 1280 x 720, 1120 x 630, 960 x 540, 800 x 450, 640 x 360, 480 x 270, 320 x 180
Resolution 4:3 mode	SXGA(1280x960), XGA(1024x768), SVGA(800x600), PAL(720x576), NTSC(720x480), VGA(620x480), QVGA(320x240)
Frame Rate	Max 30fps in all resolution
Smart Bitrate Control	Supported (works in VBR mode)
Orientation Control	Flip/mirror/corridor mode(-90°, +90°)
Burnt-in Text (Digital)	Time stamp and text caption overlay
Privacy Mask	4 configurable regions
Flicker Control	Normal, 50Hz, 60Hz
Analog Output	None
AUDIO	
Input/Output	None
PERIPHERAL	
Digital Input/Output	None
Ethernet Standard	10/100 BaseT
IP	IPv4, IPv6
Protocol	QoS Layer 3 DiffServ, TCP/IP, UDP/IP, HTTP, HTTPS, FTP, RTSP, RTCP, RTP/UDP, RTP/TCP, mDNS, UPnP™, SMTP, DHCP, DNS, DynDNS, NTP, SNMPv1/v2c/v3(MIB-II), IGMP, ICMP, SSLv2/v3, TLSv1, SRTP, RTM
Security	HTTPS(SSL), IP filtering, multi-level access with password protection
EDGE STORAGE	
Storage	1x MircoSD/MicroSDHC memory card slot (card not included)
Recording Types	Continuous recording: instant recording; search & download Event recording: search of event logs; playback; download
ELECTRICAL	
Power Source	DC 12V, PoE
Power Consumption	4.2W @ DC 12V
ENVIRONMENTAL	
Operating Temperature	-20°C - 50°C (-4°F - 122°F)
operating remperature	
Operating Humidity	Up to 85% RH (non-condensing)
· · ·	Up to 85% RH (non-condensing)
Operating Humidity	Up to 85% RH (non-condensing) Aluminum Die-Casting
Operating Humidity MECHANICAL	
Operating Humidity MECHANICAL Material	Aluminum Die-Casting
Operating Humidity MECHANICAL Material Color Weight	Aluminum Die-Casting Ivory 300g (0.66 lbs)
Operating Humidity MECHANICAL Material Color	Aluminum Die-Casting Ivory 300g (0.66 lbs)
Operating Humidity MECHANICAL Material Color Weight VIDEO ANALYTICS (IN	Aluminum Die-Casting Ivory 300g (0.66 lbs) CLUDED) VCA Technology's advanced tracking algorithm with rich library of detection behaviors; some engines require
Operating Humidity MECHANICAL Material Color Weight VIDEO ANALYTICS (IN Analytics Engine	Aluminum Die-Casting Ivory 300g (0.66 lbs) CLUDED) VCA Technology's advanced tracking algorithm with rich library of detection behaviors; some engines require additional licensing
Operating Humidity MECHANICAL Material Color Weight VIDEO ANALYTICS (IN Analytics Engine	Aluminum Die-Casting Ivory 300g (0.66 lbs) CLUDED) VCA Technology's advanced tracking algorithm with rich library of detection behaviors; some engines require additional licensing Web browser interface 40 zones, multi-segment polygons and lines, 60 rules in total
Operating Humidity MECHANICAL Material Color Weight VIDEO ANALYTICS (IN Analytics Engine User Interface Detection Zones	Aluminum Die-Casting Ivory 300g (0.66 lbs) CLUDED) VCA Technology's advanced tracking algorithm with rich library of detection behaviors; some engines require additional licensing Web browser interface 40 zones, multi-segment polygons and lines, 60 rules in total
Operating Humidity MECHANICAL Material Color Weight VIDEO ANALYTICS (IN Analytics Engine User Interface Detection Zones ORDERING INFORMAT	Aluminum Die-Casting Ivory 300g (0.66 lbs) CLUDED) VCA Technology's advanced tracking algorithm with rich library of detection behaviors; some engines require additional licensing Web browser interface 40 zones, multi-segment polygons and lines, 60 rules in total licon 1080p HD IR Compact Dome Camera
Operating Humidity MECHANICAL Material Color Weight VIDEO ANALYTICS (IN Analytics Engine User Interface Detection Zones ORDERING INFORMAT CAO-EDH-62-11IR	Aluminum Die-Casting Ivory 300g (0.66 lbs) CLUDED) VCA Technology's advanced tracking algorithm with rich library of detection behaviors; some engines require additional licensing Web browser interface 40 zones, multi-segment polygons and lines, 60 rules in total licon 1080p HD IR Compact Dome Camera

1080p HD IR Compact Camera 2.1 Megapixel IP Micro Dome with IR

Video Security



Amano high-definition indoor cameras offer a superior solution to every day surveillance needs.

The latest design with an advanced feature set, embedded Video Analytics and infrared illumination in a small form factor provide uncompromised security in a reliable and cost-effective package.

Features

- Full HD 1080p 30fps
- · H.264 and MJPEG compression
- True day/night and WDR
- · Built-in IR illuminator with 10m (33ft) viewing distance
- Embedded VCA technology Video Analytics
- · MicroSD/SDHC memory card slot
- Power over Ethernet (IEEE 802.3af)



Amano WMK

Wiegand Metal Keypad Reader

KEY FEATURES

- Communications distance of up to 500 feet (150 m).
- Suitable for OEM developments.
- Multiple Wiegand output formats (26-bit and 44-bit).
- Read capability from various tag types: Slim Tags, Omega Tags, Amano Trinary Tags (1074 and 2074) and HID Tags (H10301, H10302 and H10304).
- A single tri-colored Red, Green or Amber Status LED.
- A 4 kHz piezo-electric Buzzer.
- 12-Button alphanumeric keypad
- An external Wiegand communications bus interface.
- Dual input voltage types supported (5 V DC and 12 V DC).
- Programmable facility code for use with PIN-code entry.



Amano WMK Metal Keypad Reader

PHYSICAL SPECIFICATIONS

Dimensions (H x W x D)	5.59" x 2.99" x 1.06" (142mm x 76mm x 27mm)
Weight	18 oz (513g)
Housing Material	Die-cast Zinc Alloy.
Color	Satin Nickel powder coated

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-13°F to +140°F (-25°C to +60°C)
Storage Temperature -40°F to +176°F (-40°C to +80°C)	
Humidity Range	0 to 95% relative humidity at +104°F (+40°C) non-condensing.
CE Approval	EN301 489-3, EN301 489-1 and EN300 330-1.
FCC Approval	Pending.
Dust & Splash Resistance	Designed to work in harsh (industrial) indoor or outdoor environments similar to IP53.



ELECTRICAL SPECIFICATIONS

POWER

Input Voltage Rating	5 V DC to 16 V D	C, polarity sensitive.
Power Requirements	Current (mA)	Power (W)
Supply Voltage 5 V DC all indicators on	50	0.25
Supply Voltage 12 V DC all indicators on	50	0.60
Permissible Input Supply Ripple Voltage (Max)	1 V pp at 50 Hz	
Power Input Protection	Reverse polarity p	protection is provided on the Reader.

PIN-CODES

Туре	5 Digit codes in the range 00000 to 65535.
	4 Digit codes in the range 0000# to 9999#.

WIEGAND BUS

Electrical Interface	'0' and '1' data streams.
Tag Information Data Format	44-bit Wiegand or 26-bit Wiegand.
Key Information Data Format	26-bit Wiegand only.

INPUTS

Quantity	4
Туре	Dry Contact.
Function	Operation of the Buzzer, LED and Scanner Inhibit.

USER INTERFACES

BUZZER

Status LED

Volume & Tone	4 kHz piezo-electric, single volume, single tone.
KEYPAD	
Keys	12 Alphanumeric keys.
STATUS INDICATOR	

AMANO®

ORDERING INFORMATION

WMK900-1-0-AC Amano Metal Keypad Proximity Card Reader (Multi-mode)

Tri-colored Red, Green or Amber (Default) (externally visible).

Amano reserves the right to change specifications without prior notice.

AMANO WMK-900 Mounting Plate 1817-0000 2 ARCHITECT 4 U.S.STD





Magnetic Lock



Wiring Access

