

CRASH CRASH

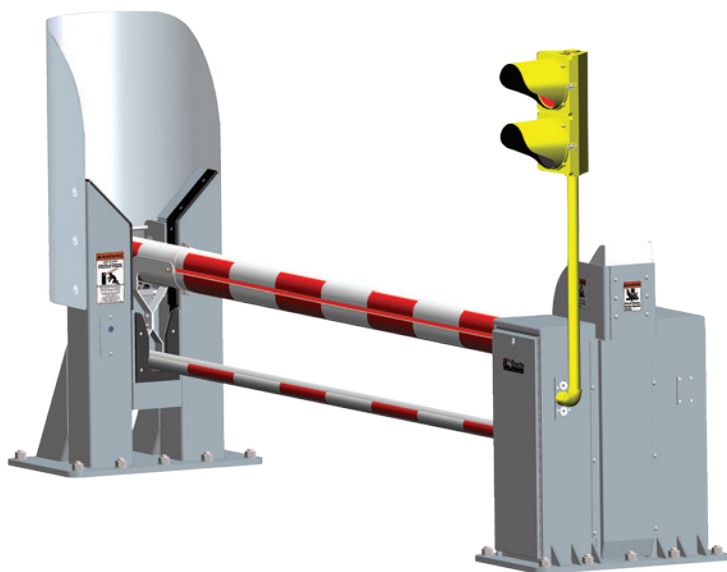
StrongArm

Crash Barrier Arm Operator

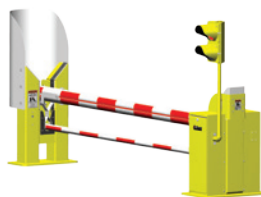
Ultimate hardened security and unmatched user safety

- StrongArm M30 crash certified to ASTM F2656-07 M30, P1* penetrated less than 1 meter
- StrongArm M50 crash certified to ASTM F2656-07 M50, P2 penetrated less than 1.2 meter
- StrongArm M30 NP/M50 NP (No-power) models defend high security sites that do not have power.
- Fast arm speed, reduces traffic backup by minimizing gate open time. 6-8 seconds, depending on arm length
- Unique dual arm design prevents a large truck or a small passenger vehicle from breaching the security perimeter
- Highly visible LED lighting protects against accidental impact
- Full 90° opening prevents tall vehicles from clipping arm
- Monitored photo eye stops arm when obstructed for enhanced safety
- UPS Backup option – AC Power Supply with HyInverter AC

* P1 rated for 12 ft clear opening



StrongArm M50
Hot dipped galvanized standard.
Optional textured yellow powder
coat over zinc plating.



StrongArm M30
ASTM F2656-07 M50-P1*
6 to 8 seconds Open/Close time
12 to 24 ft clear opening



StrongArm M50 NP
Manually operated
ASTM F2656-07 M50-P2*
6 to 8 seconds Open/Close time
12 to 24 ft clear opening



Anti-Ram Crash

HySecurity operators secure the world's critical infrastructure and key assets where ultimate reliability is vital. StrongArm M30/M50 delivers uncompromising quality to industrial and high security customers worldwide, where ease of use, consistent operation, low maintenance, long life and high reliability is expected.



**Anti-Ram Barrier
Arm Operator**

StrongArmCrash™

Model	StrongArm M30	StrongArm M50	StrongArm M30 NP	StrongArm M50 NP
Crash Certified	ASTM F2656-07 M30-P1*	ASTM F2656-07 M50-P2*	ASTM F2656-07 M30-P1*	ASTM F2656-07 M50-P2*
Duty Cycle	100 cycles/hr**, option for continuous duty		Manually operated	Manually operated
Horsepower	2 hp		—	
Drive	Hydraulic		—	
Open/Close Time	6 to 8 seconds depending on arm length		Open time: approx. 60 to 120 seconds depending on arm Close time: approx. 15 to 25 seconds depending on arm	
Emergency Fast Close Time	5 to 7 seconds depending on arm length		—	
Clear Opening	12 to 24 ft in 2 ft increments (366 to 732 cm in 61 cm increments) Call for custom arm length		12 to 24 ft in 2 ft increments (366 to 732 cm in 61 cm increments) Call for custom arm length	
Full Open Angle	90°		Adjustable 88° ± 2°	
Ingress Protection	IP56		IP56	
Temperature Rating	-40° to 158° F (-40° to 70° C) or -10° to 158° F (-23° to 70° C) using biodegradeable fluid		40° to 158° F (-40° to 70° C) or -10° to 158° F (-23° to 70° C) using biodegradeable fluid	
1 Phase Power	208/230V, 60/50 Hz 20A		—	
3 Phase Power	208/230V, 60/50 Hz, 380/460V, 60/50 Hz		—	
Communication	RS-232, RS-485, Ethernet/fiber using optional HyNet™ Gateway accessory		—	
User Controls	Smart Touch Controller with 70+ configurable options. Smart Touch keypad and display or a PC using S.T.A.R.T. software.		—	
Relays	Three configurable user relays: one 30VDC, 3A solid state and two 250VAC, 10A electromechanical; Optional Hy8Relay™ for 8 additional relay outputs		—	
Finish Type	Hot dipped galvanized standard. Optional textured yellow powder coat over zinc plating.		Hot dipped galvanized standard. Optional textured yellow powder coat over zinc plating.	
Foundation	6 x 6 x 2 ft (183 x 183 x 61 cm) or 4 ft³ (122 cm³), 3,000 psi concrete, #5 rebar, grade 60	6 x 6 x 4 ft (183 x 183 x 122 cm) 4,000 psi concrete, #6 rebar, grade 60	6 x 6 x 2 ft (183 x 183 x 61 cm) or 4 ft³ (122 cm³) 3,000 psi concrete, #5 rebar, grade 60	6 x 6 x 4 ft (183 x 183 x 122 cm) 4,000 psi concrete, #6 rebar, grade 60
Electrical Certification	Control panel certified to UL 508A by ETL		—	
Warranty	5 year		5 year	
UPS Backup Power***				
AC Power Supply with HyInverter AC***	StrongArm M30 with HyInverter AC	StrongArm M50 with HyInverter AC	—	

*Contact HySecurity to receive a copy of the ASTM F2656-07 M30/M50 Test Certifications. StrongArm M50 received a P2 rating with penetration limited to 1.17 meters

**ExtremeCycle option available

***The operator's normal duty cycle and the actual number of gate cycles available from battery depends upon gate resistance to travel, cycle length, battery size, state of charge and health, ambient temperature, accessory power draw and frequency of gate cycles during power outage

OPTIONAL ACCESSORIES:

- Hy5A intelligent vehicle detectors
- Hy8Relay™ - accessory module provides eight additional programmable relay outputs
- HyNet™ Gateway for communicating gate system and accessory status in real time via Ethernet/fiber
- Custom color - Signal Yellow, secondary traffic light, heater, mag lock

SYSTEM DESIGN SUPPORT: Contact HySecurity for CAD drawings, tech manuals, help with custom site requirements or other specifications support. Download operator specifications online at www.hysecurity.com or call to speak with a HySecurity representative today.

VISIT WWW.HYSECURITY.COM for specifications, installation manuals, wiring diagrams, parts diagrams, image gallery, videos, training and much more.

Distributed by:

Proven Integrated, Intelligent Controls

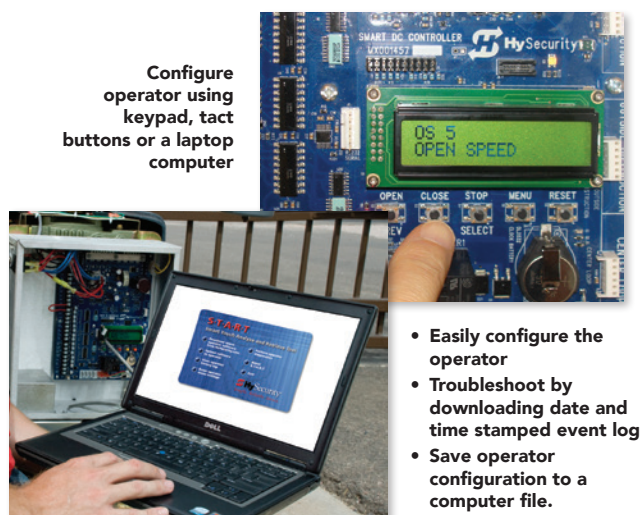
Easily configure gate operation to specific site requirements with unequalled HySecurity Smart Touch and Smart DC Controllers

- Controller and keypad are safely located and easily accessible inside the enclosed chassis
- Menu mode for installer and end user configuration
- PC software available for easy configuration and quick troubleshooting using Smart Touch Analyze and Retrieve Tool (S.T.A.R.T.)
- Upload latest software, troubleshoot system and save operator configurations.
- Patented Anti-Tailgate mode
- Optional plug-in Hy5A/Hy5B vehicle detectors. No crosstalk
- RS-485, HyNet™ Gateway for communicating gate system and accessory status in real time via Ethernet/fiber
- Unparalleled power surge/lightning strike protection
- Easy one wire input terminal connections and common wire buss
- Program dual gate or sequenced gate integration.
- Approved to the latest UL 991

Smart DC Controller *Another HySecurity Innovation*

Common to all HySecurity electromechanical operators

- Two* configurable user relays plus optional Hy8Relay™ - an accessory module providing eight additional programmable relay outputs.
- USB and RS-232 for connection to laptop

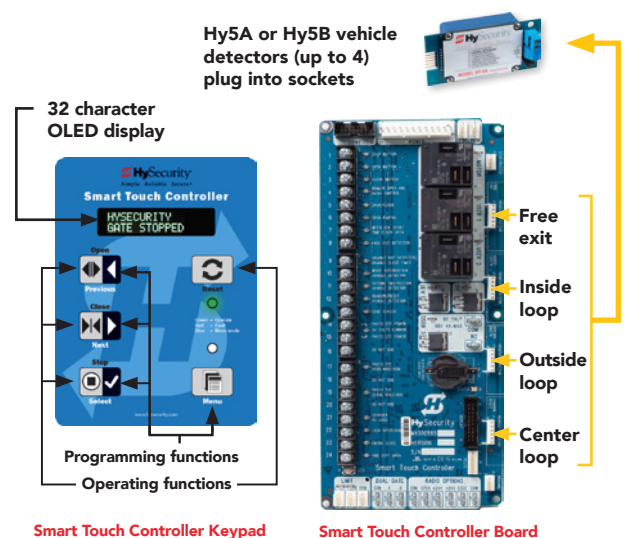


*One configurable user relay on StrongArmPark DC

Smart Touch Controller *Another HySecurity Innovation*

Common to all HySecurity hydraulic operators

- Three configurable user relays plus optional Hy8Relay™ - an accessory module providing eight additional programmable relay outputs.
- RS-232 for connection to laptop



Tap into HySecurity Gate Operator Intelligence

HyNet™ Gateway

The HyNet™ Gateway provides intelligent perimeter control with real time connection to a HySecurity operator. HyNet communicates breach or operational issues with the access control point via built in web interface, Web Services API or SNMP

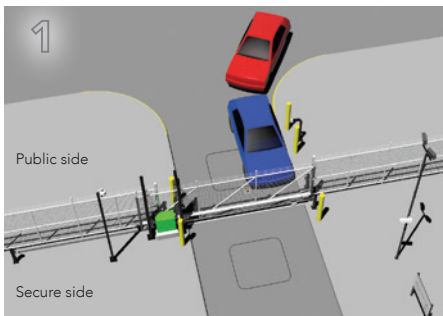
- Easily integrate your gate with Security Platform for complete perimeter security.
- Receive critical gate system operational and breach conditions through text or email from HySecurity Smart Touch and Smart DC gate operator intelligence.
- Respond appropriately to events and alerts intelligently, quickly, and in real time. Be confident that your response is suitable to the threat.



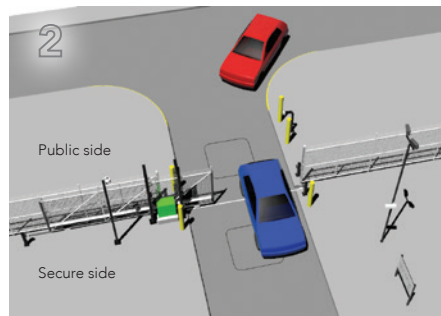
Status Screen
Monitor gate status and cycle counts

Operations Screen
Operate gate and view brief status details

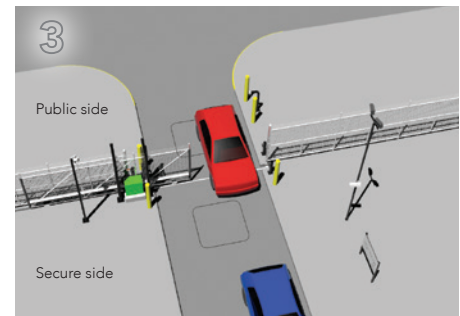
Event Log View gate events, alerts, logs and parking counts



SlideDriver detects...



...nearly thwarts and then



reports a tailgating incident to the site command and control center.

ALERT, REPORTING, AND ACTIVATION EXAMPLES

Security monitoring/breach reporting

- Unauthorized vehicle entry
- Anti-tailgating mode
- Vehicle loitering
- Gate open too long
- Gate forced open

Gate malfunction alert

- Gate failure
- AC power failure
- Malfunction of vehicle detector or loop (requires Hy5A vehicle detector)

Gate operation and display

- Seamless synchronization with all HySecurity operators for dual gate, sally port or sequenced gate integration
- Easy installation configuration
- Trigger external cameras, floodlights, sirens, flashers
- Gate external lock activation/deactivation

Safety and alerts

- Warn before and/or during operation buzzer
- Actuate siren or flashing light before and/or during operation
- Safe mode: If any sensor is triggered, gate stops and reverses
- Entrapment mode: Two successive sensor activations (gate hits) requires manual operator reset

**TECHNICAL SPECIFICATIONS for Model
StrongArm™ M30
Active Anti-Ram Crash Barrier for Clear Openings up to 24 ft (7,315 mm)
With Smart Touch Controller
02827 HYS**

PART 1 – GENERAL

1.1. INCLUDED IN THIS SECTION

- A. Pre-wired drop arm vehicle barrier, including all selected attachments and accessory equipment. Complete with all pumps, valves, cylinders and electrical devices to move barrier arm and limit its travel in both directions.
- B. For further information, call the manufacturer at (800) 321-9947 or visit the website at www.hysecurity.com.

1.2. RELATED WORK SPECIFIED ELSEWHERE

- A. Fencing: See section 32 3113.
- B. Cast in place concrete: See section 03 3000.
- C. Electrical service and connections: See section 26 0513.

1.3. SUBMITTALS

- A. Shop drawings: Submit shop drawings under the provisions of Section 01 3300. Submit drawings showing connections to adjacent construction, range of travel, and all electrical and mechanical connections to the barrier. All underground runs of electrical lines and inductive vehicle obstruction loop locations shall be indicated on drawings. Drawings shall also show the size and location of the concrete footings.
- B. Installation instructions: Submit two copies of manufacturer's installation instructions for this specific project.
- C. Submit manufacturer's completed warranty registration form to Project Manager.
- D. Project list: Submit list of product installations comparable to the subject job. Include date of product installation, installer, and owner's name and location of the project.
- E. Test reports:
 - 1. Submit affidavits from the manufacturer demonstrating that the barrier mechanism has been tested to 200,000 cycles without breakdown.
 - 2. Each operator shall bear a label indicating that the operator mechanism has been tested. Operator is tested for full power and pressure of all hydraulic components, full stress tests of all mechanical components and electrical tests of all overload devices.

1.4. QUALITY ASSURANCE

- A. Manufacturer: A company specializing in the manufacture of Anti-Ram barriers of the type specified, with a minimum of five years' experience manufacturing operators of this type and design.
- B. Installer: Must have a minimum of three years' experience installing similar equipment, provide proof of attending a HySecurity Technical Training within the previous three years, or obtain other significant manufacturer endorsement of technical aptitude, if required, during the submittal process.

1.5. CODES AND REGULATORY REQUIREMENTS

- A. Electrical Panels shall be built and labeled to UL508A standards. Complete all electrical work according to local codes and National Electrical Code. All fieldwork shall be performed in a neat and professional

manner, completed to journeyman standards.

- B. Vehicular barriers should never be used by pedestrians. A separate pedestrian entrance must always be provided when foot traffic is present.

1.6. PRODUCT DELIVERY AND STORAGE

- A. Comply with 01 6000.
- B. Store products upright in the original shipping containers, covered, ventilated and protected from all weather conditions.

1.7. WARRANTY

- A. Provide a warranty against all defects in materials or workmanship for five years or 500,000 gate cycles (whichever occurs first) after the date of installation. Defective materials shall be replaced at manufacturer's discretion with new or reconditioned materials furnished by the manufacturer, at no cost to the owner. Freight, labor and other incidental costs are not covered under the factory warranty, but may be covered by a separate service agreement between installing company and the owner.
 - 1. To ensure validation of warranty, complete warranty registration form online at www.hysecurity.com/warranty. Warranty registration form is also included in the printed materials shipped with the operator.

PART 2 – PRODUCTS

2.1. VEHICLE BARRIERS

- A. HySecurity vehicle barrier model StrongArm™ M30 with Smart Touch Controller, or other comparable barrier, as approved by the architect or specifier. Substitute barriers that are approved will be published in an addendum, not less than ten days prior to bid opening. Requests for substitution will include the amount of savings to be passed on to the owner.

2.2. OPERATION

- A. Operation shall be by means of dual acting hydraulic cylinder acting directly on the drop arm to move the arm through 90°. The arm travel time varies depending upon version ordered, see schedule below. Operation to the fully open and fully closed position shall be continuously monitored by an absolute position sensing device that accurately reads the position of the cylinder and arm. The system shall function normally without need for springs or weights to counterbalance the arm. Gears, sprockets, belts or pulleys shall not be incorporated in the operator. Arresting of vehicles shall be accomplished by polymeric straps suspended in the arm. All models include a variable speed motor drive and two brake valves to gradually stop and hold the arm without applying a shock load to the arm or barrier assembly. Barrier shall hydraulically lock in the closed position.
- B. The vehicle barrier shall be certified by a third party licensed engineer to be capable of withstanding a direct impact from a vehicle to the M30 level specified in ASTM F2656 for 12 ft (3,657 mm) and 24 ft (7,315 mm) lengths. The vehicle barrier shall have successfully passed testing at an accredited test facility to ASTM F2656 as validation of the engineering certification.
- C. Safety Features shall include as a minimum:
 - 1. Lower barrier arm at a height of 18" (457 mm) from grade to prevent smaller vehicles from penetrating under the main barrier arm.
 - 2. The barrier arm shall contain LED warning lights to enhance night visibility.
 - 3. The barrier shall include a red – amber stoplight to display status to vehicles.
 - 4. A photoelectric eye capable of detecting a person or vehicle in the path of the barrier to prevent closure of the barrier arm when an obstruction is present. This feature shall not be active during Emergency Fast Close.
 - 5. Shield to prevent entrapment of bystanders between arm and catch post.
- D. Schedule of length and speed capacities:
 - 1. StrongArm M30 12-14 ft (3,657-4,267 mm) clear opening: Travel time not to exceed six seconds from fully closed to fully open position. Maximum clear opening shall be 14 ft (4,267 mm).
 - 2. StrongArm M30 16-18 ft (4,876-5,486 mm) clear opening: Travel time not to exceed seven seconds from fully closed to fully open position. Maximum clear opening shall be 18 ft (5,486 mm).
 - 3. StrongArm M30 20-24 ft (6,096-7,315 mm) clear opening: Travel time not to exceed eight

seconds from fully closed to fully open position. Maximum clear opening shall be 24 ft (7,315 mm).

4. All units shall contain, as standard equipment, a provision for Emergency Fast Close operation that shall move the barrier from fully open to the fully closed position in 1.5 seconds less than the normal travel time to open.
- E. Minimum standard mechanical components:
 1. Chassis: shall be 3/8" (9.5 mm) steel plate, welded, and edges ground smooth.
 2. Cover: shall be 14 gauge galvanized sheet steel, with a security lock to limit access.
 3. Main shaft: shall be 3" (76 mm) diameter, high strength steel alloy.
 4. Heavy duty sealed 1 15/16" (49 mm) bearings, with cast iron pillow blocks.
 5. Resilient physical stop limiting open and close travel and to cushion stop at each end of travel.
 6. Hydraulic hose: Shall be 3/8" (9 mm) wire braid reinforced, rated to 3,050 psi (21.0 MPa).
 7. Hydraulic valves: Shall be individually replaceable cartridge type, in an integrated hydraulic manifold.
 8. Hydraulic fluid: High performance type with a viscosity index greater than 375 and temperature range -40° F to 167° F (-40° C to 75° C). (optional biodegradable fluid requires a heater at temperatures below -10° F (-24° C))
 9. A zero to 2,000 psi (13.7 MPa) pressure gauge, mounted on the manifold for diagnostics, shall be a standard component.
 10. The hydraulic fluid reservoir shall be formed from a single piece of metal, non-welded, and shall be powder painted on the inside and the outside, to prevent fluid contamination.
 11. Manual operation: in the event of a power outage the use of a "pull to release" bypass valve shall unlock the operator and allow the arm to be operated by a hand pump.
 12. Arm: Aluminum oval shape for optimal strength, wind resistance and corrosion protection
 13. Arm striping: shall be highly reflective alternating red and white vertical stripes, 16" (406 mm) intervals measured horizontally per MUTCD standards.
 14. Finish: hot dipped galvanize coating per ASTM A123 G85.
 15. Red LED lights shall be integrated into the barrier arm.
- F. Minimum standard electrical components:
 1. Pump motor: 2 hp, 3450 RPM, 56C, TEFC, three phase. (Note, the VFD converts single phase input power to drive a three phase motor)
 2. All components shall have overload protection.
 3. Variable frequency drive to enable variable displacement pump operation.
 4. Controls: Smart Touch Controller Board containing:
 - a. built in warning buzzer for Emergency Fast Close and in the event of Alerts, Faults, or Errors;
 - b. built in timer to close;
 - c. 32 character OLED display for reporting of functions and codes;
 - d. multiple programmable output relay options;
 - e. anti-tailgate mode;
 - f. built-in power surge/lightning strike protection;
 - g. menu configuration, event logging and system diagnostics easily accessible with a PC and HySecurity's free Smart Touch Analyze and Retrieve Tool;
 - h. RS-232 port for connection to laptop or other computer peripheral and RS-485 connection for network interface.
 - i. Dual gate communication connection for bi-parting, sally port, or sequenced gates.
 - j. Electromechanical and solid state relays.
 - k. Radio option outputs.
 - l. 21 inputs for site specific configurations.
 5. Control circuit: 24 VDC.
 6. Transformer: 75 VA, non-jumpered taps, for all common voltages.
 7. Sockets for up to four HySecurity HY-5A plug-in vehicle detectors.
 8. Open and close limits shall be via encoder, providing continuous position sensing of arm position and the stop positions shall be adjustable from the controller with an LCD display.
- G. Optional control devices (choose one or more of the following): card reader, key switch, radio control, pushbuttons, free egress vehicle detectors, vehicle obstruction loop detectors, reset loop, keypads, seven day timers or various emergency vehicle open devices as dictated by local code.
- H. Optional alert devices: Flashing lights or rotating beacon. Configurable audible beacon included as standard.

- I. Other options (*choose from the following list*):
 1. Heater with thermostat control for cold or damp climates or for use with biodegradable hydraulic oil.
 2. Hy5B plug in type vehicle detectors.
 3. Hy8Relay™ provides eight additional programmable user relay outputs.
 4. Communications package delivering Internet Protocol (RJ-45 copper or SFP fiber), managed switch and web based interface to operator via HyNet™ Gateway.
 5. 5" (127 mm) x 7" (177 mm) single piece aluminum arm with integrated LED lights on both sides from 12 ft (3,657 mm) to 24 ft (7,315 mm) in 2 ft (609 mm) increments.
 6. Custom arm length available in 1" (25 mm) increments: _____ ft
 7. Optional Signal Yellow (RAL1003) or custom color TGIC polyester powder coating over zinc plating per ASTM B633 Type 3 SC-2.
 8. ExtremeCycle: hydraulic side cover with cooling fan and thermostat, allows StrongArm M30/M50 to get up to 150-200 cycles/hr depending on arm length.
 9. Main and remote operator panels.
 10. Magnetic Lock
 11. Biodegradable, non-toxic hydraulic fluid.
 12. 208/230 VAC single phase and 208/230/460 VAC three phase available. 115 VAC single phase is not available. (50 Hz is available, specify voltage)
 13. UPS AC battery backup for systems up to 1 hp or VFD equipped. 208/230 VAC single phase only. 115 VAC single phase not available.

2.3. FACTORY TESTING

- A. Fully assemble and test, at the factory, each barrier to assure smooth operation, sequencing and electrical connection integrity.
- B. Inspect and test all hydraulics are leak free.
- C. Maintain records of material and process traceability for all critical structural elements.
- D. Check all mechanical connections for tightness and alignment. Check all welds for completeness and continuity.
- E. Inspect finishes for completeness. Touch up imperfections prior to shipment.
- F. Check all hydraulic hoses and electrical wires to assure that chafing cannot occur during shipping or operation.

PART 3 – EXECUTION

3.1. SITE EXAMINATION

- A. Locate concrete footings forms in accordance with approved shop drawings and in compliance with local building codes.

3.2. INSTALLATION

- A. Install barrier in accordance with the safety regulations and the manufacturer's product literature and installation instructions, current at the time of installation. Coordinate locations of operators with contract drawings; other trades and shop drawings.
- B. Installer shall ensure that the electrical service to the barrier is at least 20A. Electrical wiring to conform to NEC and manufacturer's installation instructions. StrongArm M30 is 3000W.

- 3.3. **BARRIER SITING AND SAFETY PRECAUTIONS:** Careful consideration must be given to the selection, placement, and design of a vehicle barrier installation. As is the case with any active vehicle barrier system, perimeter security device, or security gate that blocks a roadway, it is essential to ensure that approaching vehicles as well as pedestrians are fully aware of the presence of the barrier and its operation. Installer will work with End User Customer to provide proper illumination and clearly worded signage (with appropriate graphics) warning of the barrier's presence and its hazards. HySecurity strongly recommends that an architect and/or traffic and/or safety engineer be consulted before installing any active vehicle barrier and that an installation configuration be employed that physically limits approach speeds to no more than 20 mi/h. End User Customer agrees that it will be responsible for selecting the location of the barrier and the configuration of approaches and warnings. HySecurity will offer reasonable assistance in integrating the barrier with external and existing systems, but it does not provide traffic or safety engineering services.

3.4. FIELD QUALITY CONTROL

- A. Test operator through ten full open and close cycles and adjust for operation without binding, scraping or uneven motion. Test limit switches for proper open and close limit positions.
- B. All anchor bolts shall be fully tightened in the finished installation.
- C. Owner, or owner's representative, shall complete "punch list" with installing contractor prior to final acceptance of the installation and submit completed warranty documentation to manufacturer.

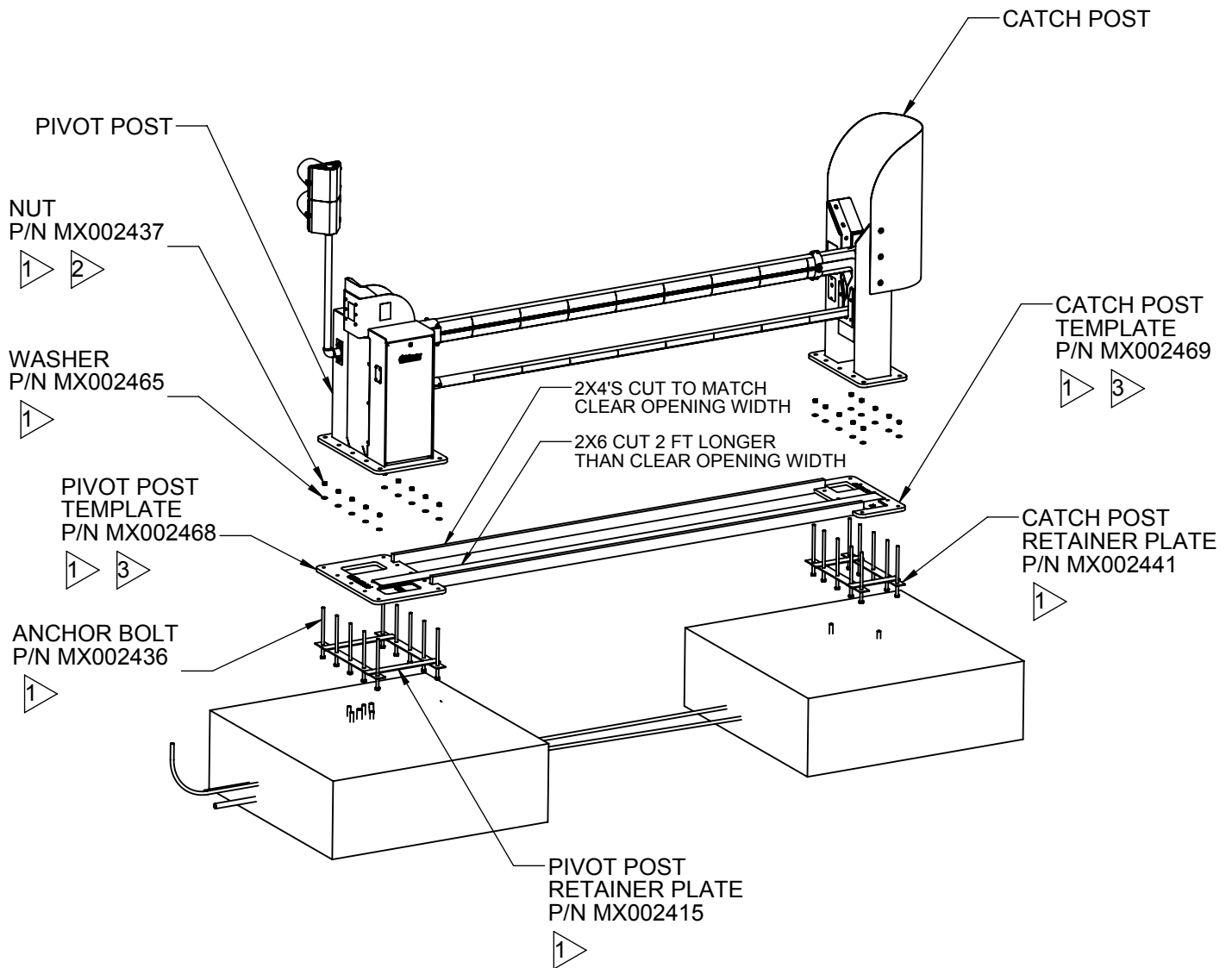
3.5. CONTINUED SERVICE AND DOCUMENTATION

- A. Train owner's personnel on how to safely shut off electrical power, release and manually operate the barrier. Additionally, demonstrate the general maintenance of the gate operator and accessories and provide one copy of "Programming and Operations Manual" for the owner's use. Manuals will identify parts of the equipment for future procurement. Direct maintenance personnel to the technical support sections on HySecurity's website at www.hysecurity.com.

NOTE: HySecurity reserves the right to change these specifications at any time, without notice and without prejudice. Call (800) 321-9947 if you are not sure that you have the latest edition.

CAUTION: Barriers manufactured by HySecurity are intended for use in controlling vehicular traffic and are not intended to be used by pedestrians or to control pedestrian traffic. **Always install a separate pedestrian entry.** Barrier arm type gate operators present a specific hazard to motorcyclists. Please direct motor cycle traffic to another access point.

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- 1 M30 COMPONENT PARTS: ONLY USE THE HARDWARE PROVIDED DO NOT SUBSTITUTE WITH OTHER MANUFACTURED PARTS.
- 2 TORQUE TO 200 FT-LBS.
- 3 WOOD PARTS: TEMPLATE, 2X4 AND 2X6 ARE REMOVED AFTER CONCRETE HAS HARDENED ADEQUATELY.

NOTE: DRAWING IS NOT TO SCALE.



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STRONGARM M30 INSTALL

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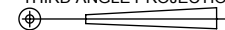
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THIRD ANGLE PROJECTION

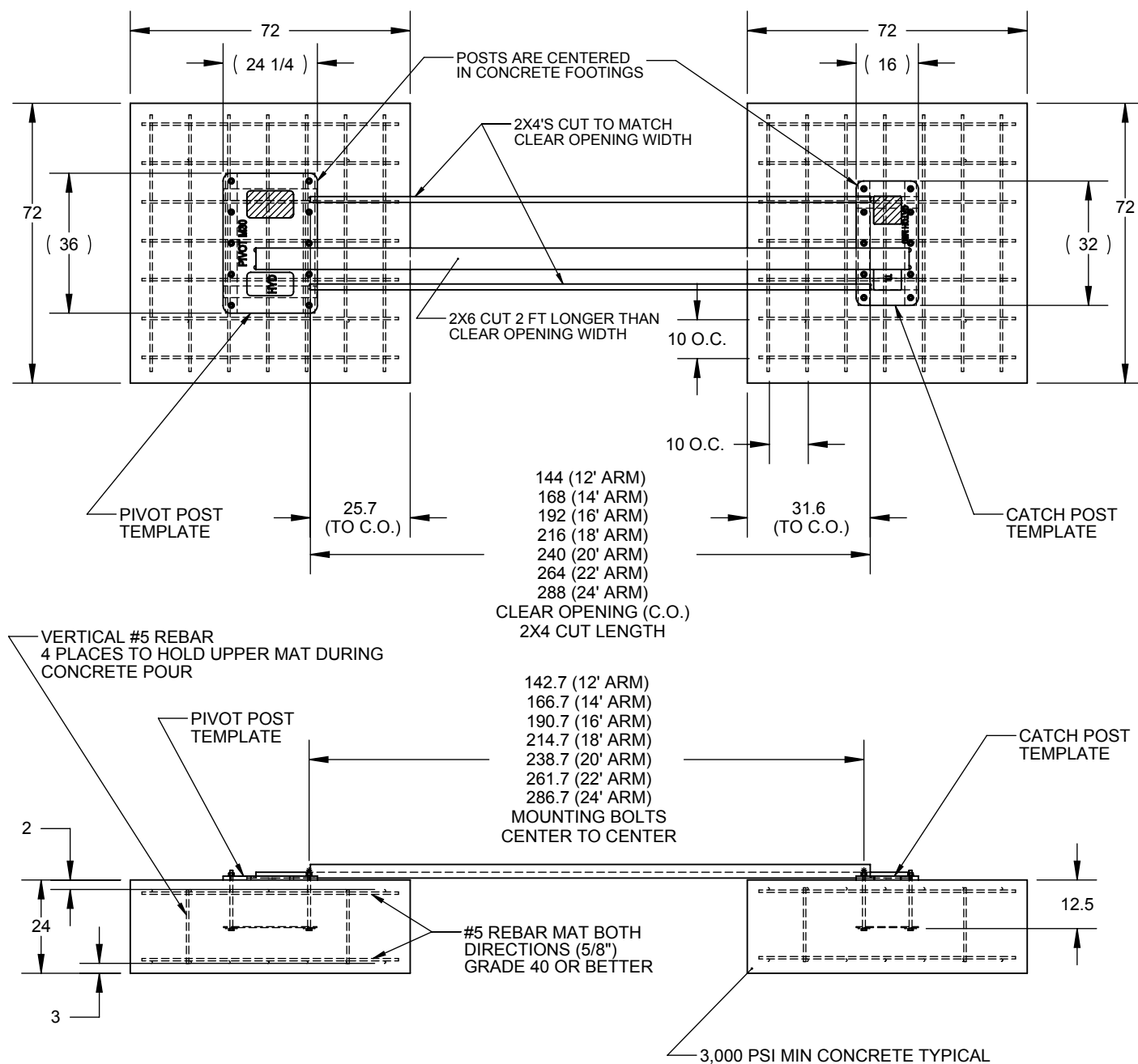


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SHT 1 OF 8

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- DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- PIVOT AND CATCH POST BOLT PATTERNS ARE DIFFERENT, BUT CONCRETE FOOTINGS AND REBAR MATS ARE IDENTICAL IN SIZE.
- ALLOY STEEL ANCHOR BOLTS, EMBEDDED RETAINER PLATES, NUTS AND WASHERS ARE SUPPLIED BY HYSECURITY.
- REBAR, CONDUIT, 2X4, 2X6, AND CONCRETE MUST BE SUPPLIED BY THE INSTALLER.

NOTE: DRAWING IS NOT TO SCALE.



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STRONGARM M30 INSTALL

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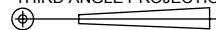
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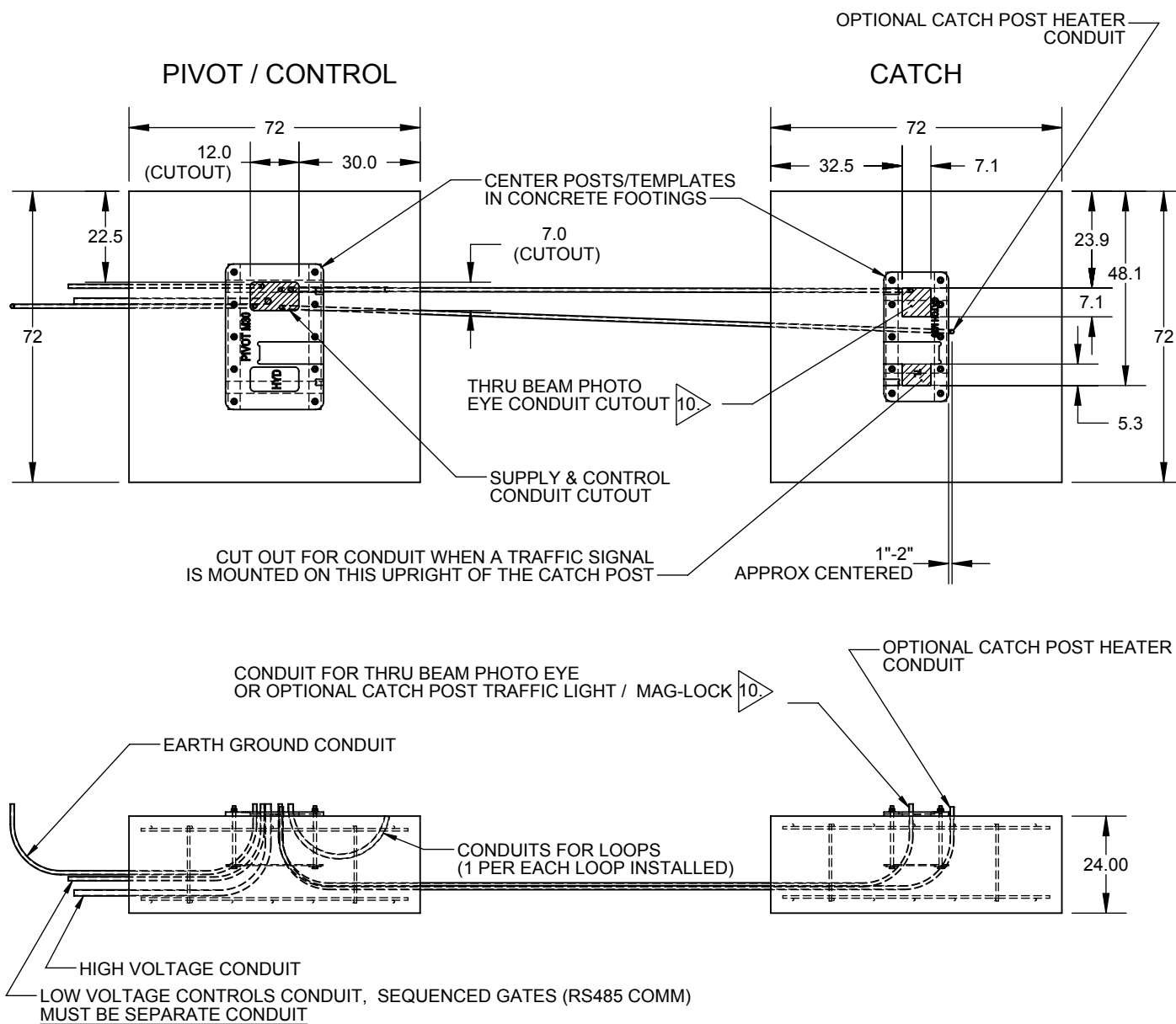


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SHT 2 OF 8

LTR	DESCRIPTION	DATE	APPR'D
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8. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

9. REBAR NOT SHOWN.

10. NECESSARY IF USING THRU BEAM PHOTO EYE, UNLESS OPTIONAL BATTERY POWERED EYE IS USED.

NOTE: DRAWING IS NOT TO SCALE.



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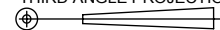
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THIRD ANGLE PROJECTION

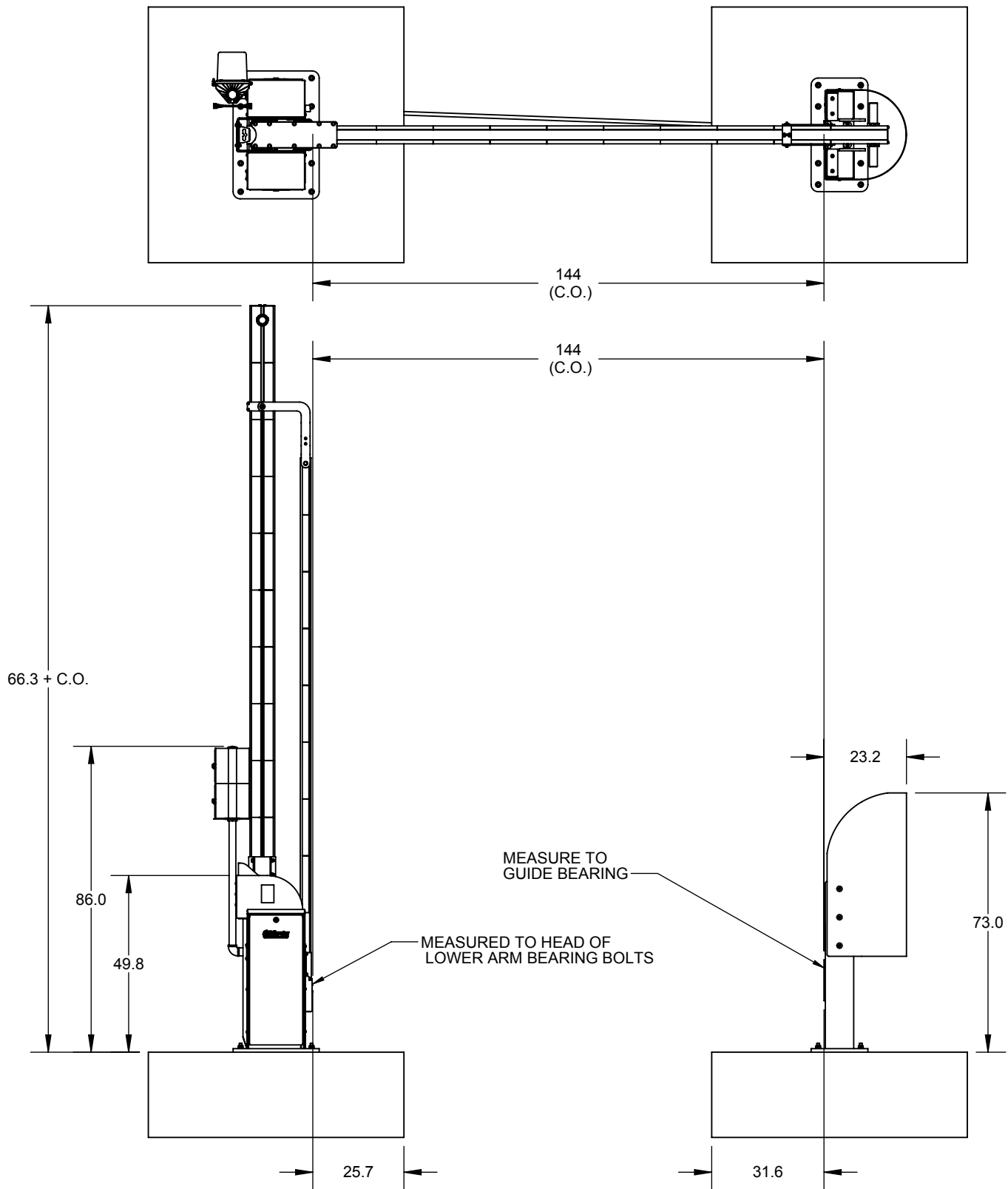


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SHT 3 OF 8

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DIMENSIONS SHOWN FOR 12' CLEAR OPENING EXAMPLE

NOTE: DRAWING IS NOT TO SCALE.



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THIRD ANGLE PROJECTION



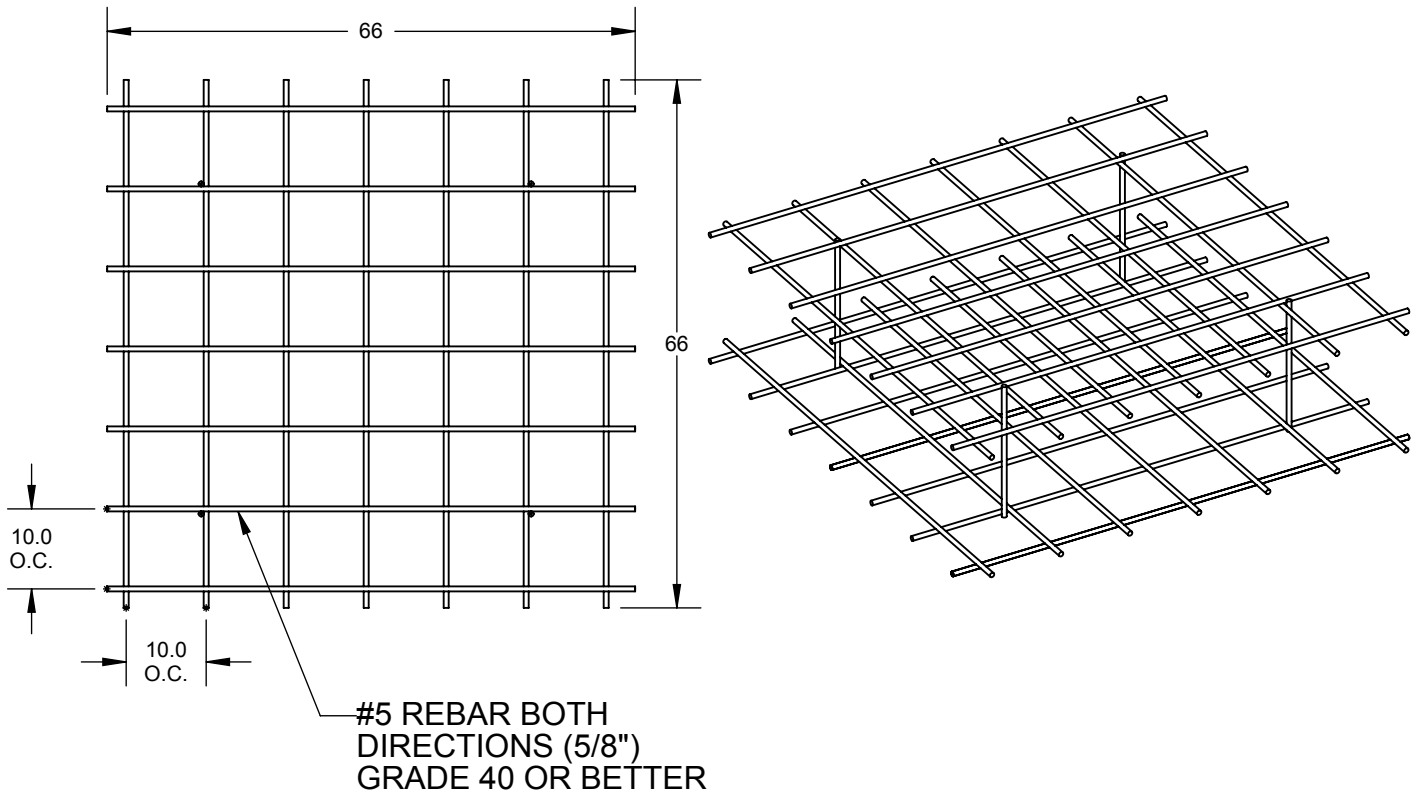
REV

E

SHT 4 OF 8

LTR	DESCRIPTION	DATE	APPR'D
E	ADDED TEMPLATE DIMS SHT 2.	3/5/2014	RAW

REBAR CAGE FOR 72X72X24 FOOTING



11. DESIGN SHOWN IS FOR A CONCRETE FOOTING 72 X 72 X 24.
REBAR TO BE SPACED 2" FROM THE TOP OF CONCRETE FOOTING AND 3" FROM THE BOTTOM.
12. REBAR AND FOOTINGS ARE IDENTICAL FOR PIVOT AND CATCH SIDES
(PIVOT AND CATCH POST HAVE DIFFERENT BOLT PATTERNS).

NOTE: DRAWING IS NOT TO SCALE.



DOCUMENT TITLE

STRONGARM M30 INSTALL

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DATE
4/8/2011

CHECKED

DATE

APPROVED

DATE

DOCUMENT NUMBER:

D0426

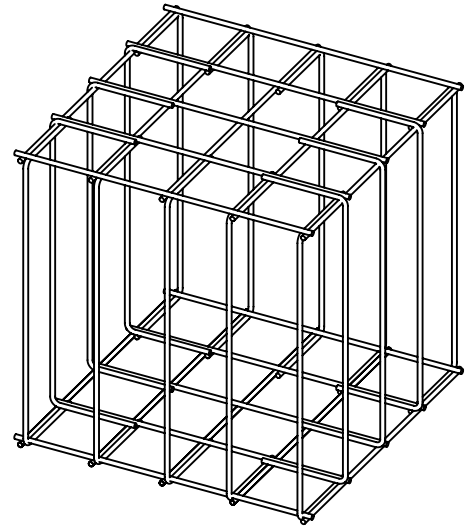
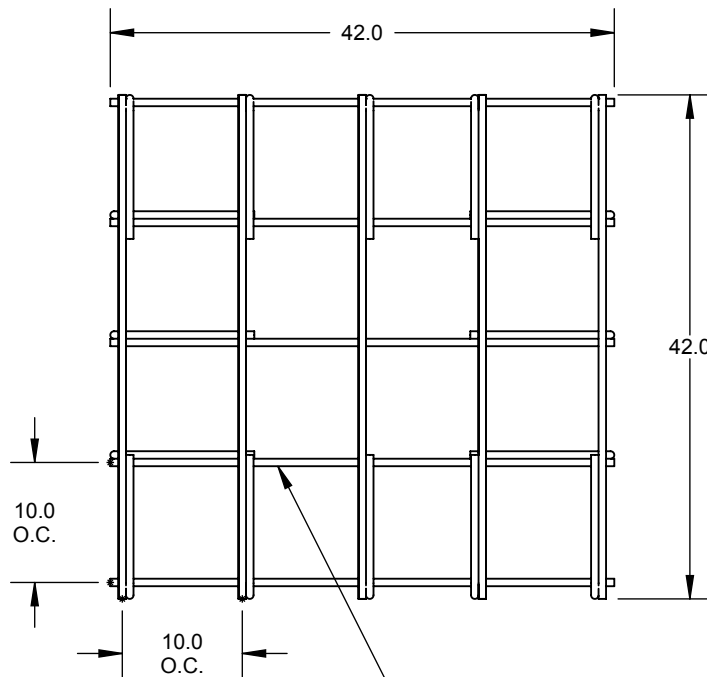
THIRD ANGLE PROJECTION

REV

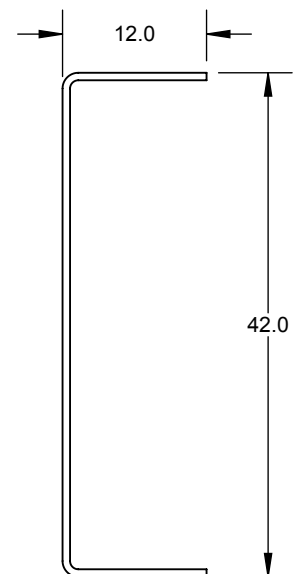
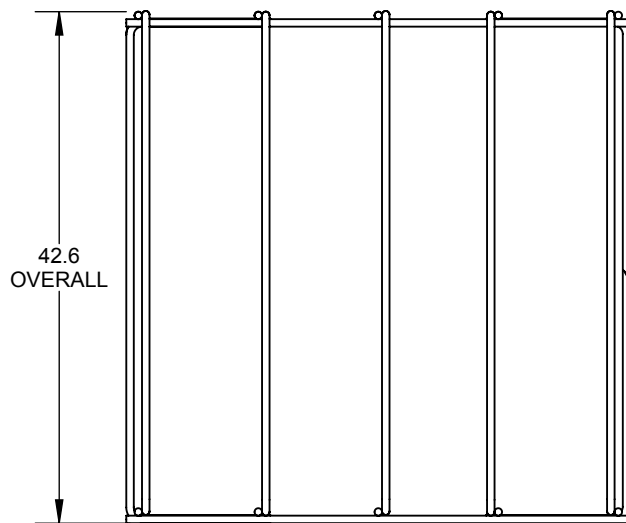
E

SHT 5 OF 8

REBAR CAGE FOR 48X48X48 FOOTING



#5 REBAR BOTH DIRECTIONS (5/8")
GRADE 60 OR BETTER



16 VERTICAL #5 REBAR
GRADE 60 OR BETTER
BENT AS SHOWN

13. DESIGN SHOWN IS FOR A CONCRETE FOOTING 48 X 48 X 48 MIN. REBAR TO BE SPACED 2" FROM TOP OF CONCRETE FOOTING AND 3" FROM THE BOTTOM.
14. REBAR AND FOOTING ARE IDENTICAL FOR PIVOT AND CATCH SIDES (PIVOT AND CATCH POST HAVE DIFFERENT BOLT PATTERNS).

NOTE: DRAWING IS NOT TO SCALE.



DOCUMENT TITLE

STRONGARM M30 INSTALL

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DATE
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APPROVED

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DOCUMENT NUMBER:

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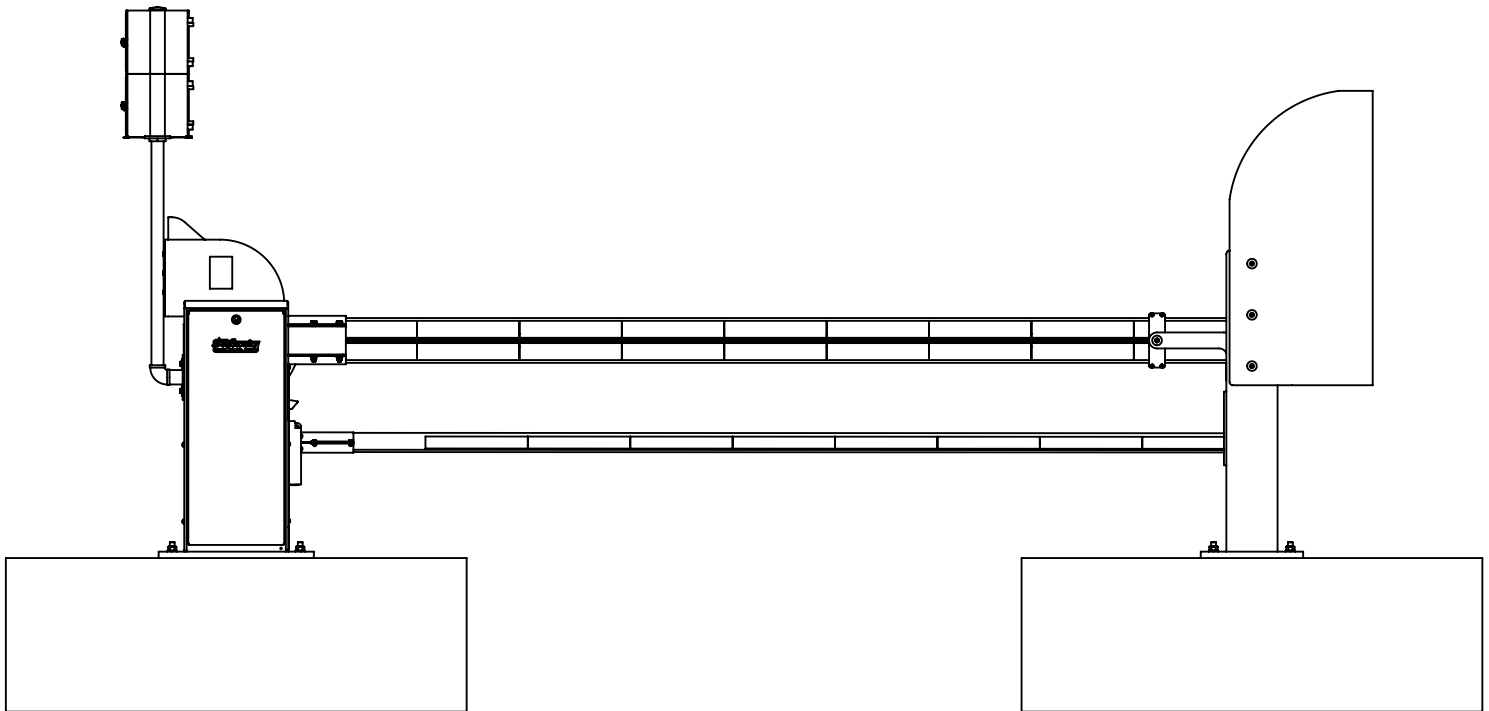
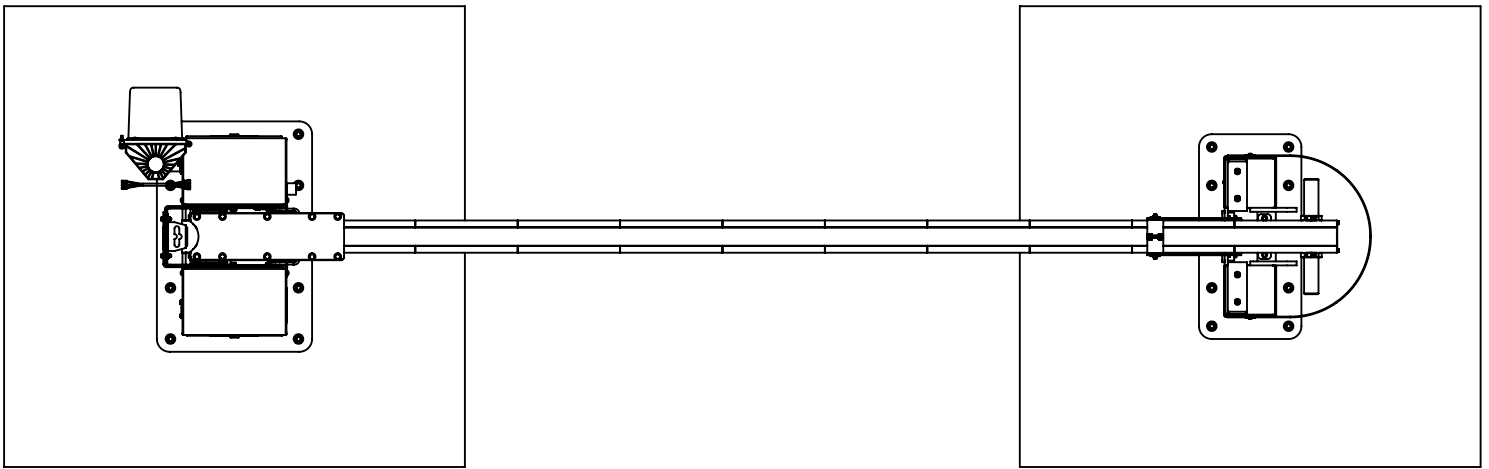
THIRD ANGLE PROJECTION



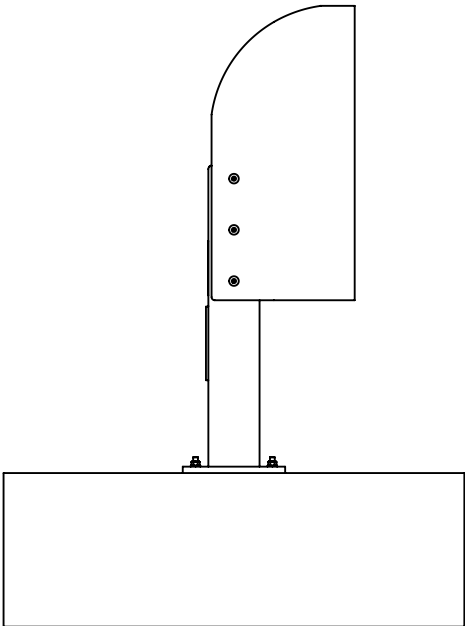
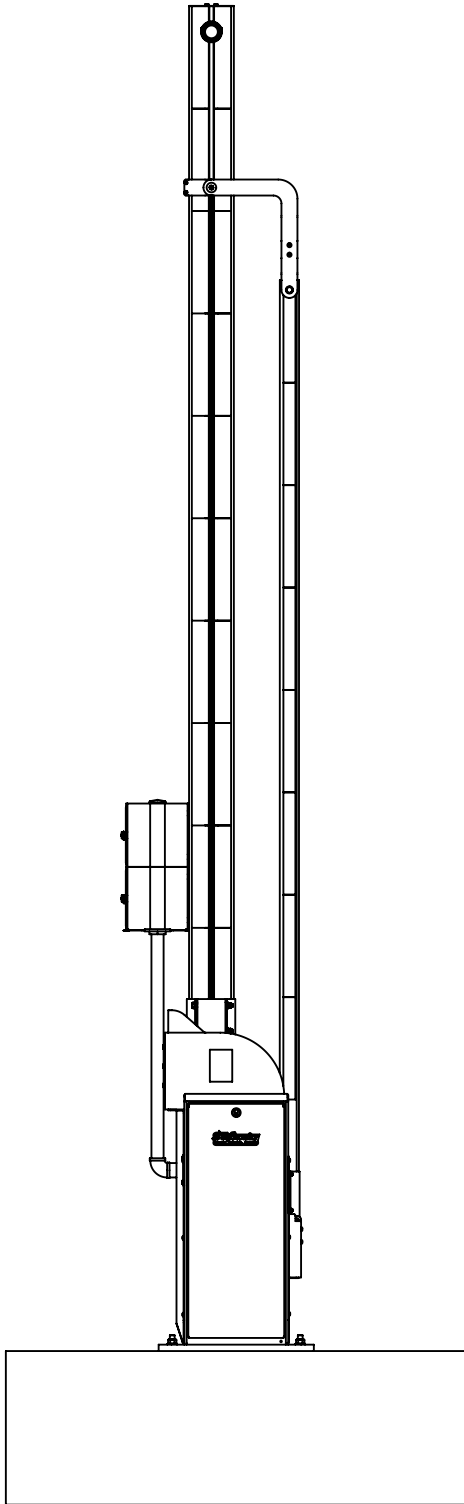
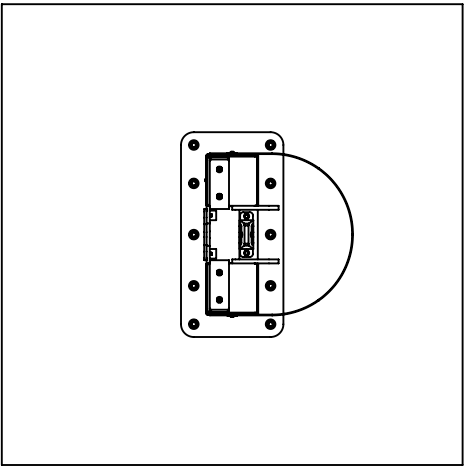
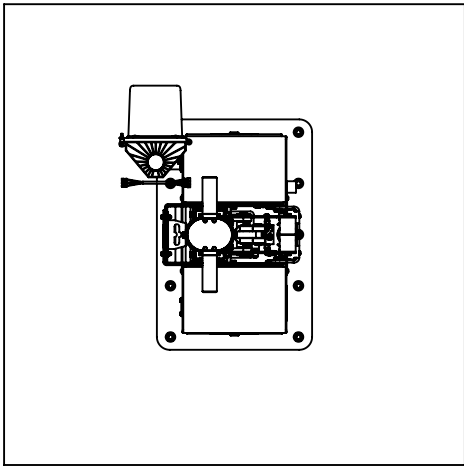
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SHT 6 OF 8



HySecurity M30 BARRIER CLOSED - 12' CLEAR OPENING



RE: 200,000 Cycle Testing, StrongArm M30/M50 Fortified Barriers

To Whom It May Concern:

This letter will serve as our affidavit of conformance to specifications that call for testing the barrier mechanism to at least 200,000 cycles without breakdown.

We have performed reliability tests on our StrongArm Crash series barriers, to more than 200,000 cycles of operation, and were not able to detect any defects or breakdowns in any component of the barrier mechanism or the hydraulic pump unit.

All of these tests were performed at our test facility and factory in Kent, Washington, USA. Testing was performed on a full size barrier of 22 ft. clear opening. A cycle consists of a full opening and a full closing. The barrier used in the test was equipped with timers that simulated continuous duty through a ten hour workday.

Respectfully,



Brian DeNault
President

WARRANTY

1. Warranty.

Hy-Security Gate, Inc. ("HySecurity") warrants that at the time of sale each of its products will, in all material respects, conform to its then applicable specification and will be free from defects in material and manufacture.

The following additional durational warranties apply to HySecurity products, depending on whether (1) the product is purchased through an authorized HySecurity distributor and (2) whether a timely and complete product registration is submitted to HySecurity.

It is therefore important that you register your product with HySecurity, online at www.hysecurity.com/warranty, within the 60-day period described below.

1(a) HySecurity Products Purchased Through Authorized Distributors and Properly Registered

For any gate operator product that is purchased from an authorized HySecurity distributor (this excludes product purchased through internet resellers or any distributor not authorized by HySecurity), if the product registration is completed by the Dealer/Installer/End User within 60 days of the date of purchase, the following warranty terms will apply. HySecurity warrants that the product will remain serviceable for the following periods:

- a) Hydraulic industrial gate operators hydraulics, controls, and mechanical components: Five Years or 500,000 gate cycles (whichever occurs first) after the date of installation,
 - b) Hydraulic wedge operator hydraulics and controls: Five Years or 500,000 cycles (whichever occurs first) after the date of installation. Wedge mechanical components: Two Years after the date of installation,
 - c) Electromechanical Slide and Swing operators: Five Years or 500,000 cycles (whichever occurs first) after the date of installation, except single family residential usage, where the warranty term shall be Seven Years after the date the product was shipped from HySecurity,
 - d) Electromechanical surface mount wedge operator electronics: Two Years or 500,000 gate cycles (whichever occurs first), after the date of installation,
 - e) Electromechanical Barrier Arm Operators: Two years or 1,000,000 gate cycles (whichever occurs first) after the date of installation,
- provided that* the preceding Five Year warranty period in (a), (b) and (c) will not extend beyond seven years from the date that the product was shipped from HySecurity, and the Two Year warranty period in (b), (d) and (e) will not extend beyond four years from the date that the product was shipped from HySecurity.

The preceding warranty durations do not apply to the products or components described below (f-i), which have a shorter warranty period.

- f) Hydraulic gate operator drive wheels including XtremeDrive™ wheels and rack: Two Years from date of installation.
- g) AC and DC power supplies, chargers and inverters and HyNet™ Gateway: Two Years from date of installation, except batteries.
- h) Batteries: One Year from date of shipment from HySecurity.
- i) Components subject to normal wear including, but not limited to, chains, belts, idler wheels, sprockets and fuses: One Year from date of installation.

1(b) HySecurity Products Not Purchased Through an Authorized Distributor or Not Properly Registered within 60 Days

For any product that is not purchased from an authorized HySecurity distributor or for which the product registration was not completed by the Dealer/Installer/End User within 60 days of the date of purchase, the following **One-Year Limited Warranty** will apply: HySecurity warrants that the product will remain serviceable for the following periods, which begin on the date that the product was shipped from HySecurity:

- a) All gate operators: One Year or 100,000 gate cycles whichever comes first.
- b) AC and DC power supplies, chargers or inverters: One Year.
- c) HyNet™ Gateway: One Year.
- d) Hydraulic gate operator drive wheels: One Year.

1(c) Replacement Parts

HySecurity warrants that replacement parts (whether new or reconditioned) will remain serviceable for One Year from the date that the product was shipped from HySecurity or the remaining period of the Gate Operator warranty, whichever is longer.

1(d) Limitations and Exclusions Applicable to Each of the Preceding Warranties.

The preceding warranties shall not apply to equipment that has been
(1) installed, maintained, or used improperly or contrary to instructions;
(2) subjected to negligence, accident, vandalism, or damaged by severe weather,

wind, flood, fire, terrorism or war; or (3) damaged through improper operation, maintenance, storage or abnormal or extraordinary use or abuse. Any modification made to products will void the warranty unless the modifications are approved in writing by HySecurity in advance of the change (this exclusion does not apply to normal installation of approved accessories and/or protective devices or sensors). It is the responsibility of the distributor, installer, or End User to ensure that the software version in the product is maintained to the latest revision level.

The preceding warranties do not extend to accessories when those items carry another manufacturer's name plate and they are not a part of the base model. HySecurity disclaims all warranties for such accessory components, which carry only the original warranty, if any, of their original manufacturer. HySecurity hereby assigns its rights under such manufacturer warranties—to the extent that such rights are assignable—to Buyer.

These warranties extend to HySecurity's Distributors, to the Dealer/Installer, and to the first End User of the product following installation. They do not extend to subsequent purchasers.

2. Exclusion of Other Warranties.

The warranties contained in Section 1 are the exclusive warranties given by HySecurity and supersede any prior, contrary or additional representations, whether oral or written. Any prior or extrinsic representations or agreements are discharged or nullified. HYSECURITY HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES—WHETHER EXPRESS, IMPLIED, OR STATUTORY—INCLUDING ANY **WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ANY LIABILITY, FOR INFRINGEMENT, AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING, COURSE OF PERFORMANCE, OR USAGE OF TRADE.**

3. Buyer's Exclusive Remedies for Any Nonconformity.

If a HySecurity product fails to conform to the warranties in Section 1, Buyer must notify and order replacement parts from the Distributor through which the product was purchased within a reasonable time and in no event more than thirty (30) days after the discovery of the nonconformity. HySecurity will investigate and, in the event of a breach, will provide, within a reasonable period of time, one of the following: (1) repair or replacement of any nonconforming products or components or (2) refund of the price upon return of the nonconforming items. HySecurity reserves the right to supply used or reconditioned material for all warranty claims. HySecurity will not be considered to be in breach of or default under this Warranty because of any failure to perform due to conditions beyond its reasonable control, including any force majeure. This warranty does not cover any incidental expenses, including fines or penalties, temporary security, labor, shipping, travel time or standby time that are incurred for inspection or replacement of any nonconforming items. As a condition of warranty coverage, warranty claims must be submitted in accordance with the procedures described on the HySecurity form, "RMA Procedures."

THE REMEDY SELECTED BY HYSECURITY IN ACCORDANCE WITH THIS PARAGRAPH SHALL BE THE **EXCLUSIVE AND SOLE REMEDY OF BUYER FOR ANY BREACH OF WARRANTY.**

4. Exclusion of Consequential and Incidental Damages.

HYSECURITY SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM NONDELIVERY OR FROM THE USE, MISUSE, OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT OR FROM HYSECURITY'S OWN NEGLIGENCE. This exclusion applies regardless of whether such damages are sought for breach of warranty, breach of contract, negligence, or strict liability. This exclusion does not apply to claims for bodily injury or death.

5. Severability.

If any provision of this warranty is found to be invalid or unenforceable, then the remainder shall have full force and effect.

6. Proprietary Rights.

HySecurity retains and reserves all right, title, and interest in the intellectual property rights of its products, including any accompanying proprietary software. No ownership of any intellectual property rights in the products or accompanying software is transferred to Distributor, Dealer/Installer or End User.

7. Applicable Law.

This warranty will be interpreted, construed, and enforced in all respects in accordance with the laws of the State of Washington, without reference to its choice of law principles. The U.N. Convention on Contracts for the International Sale of Goods will not apply to this warranty.