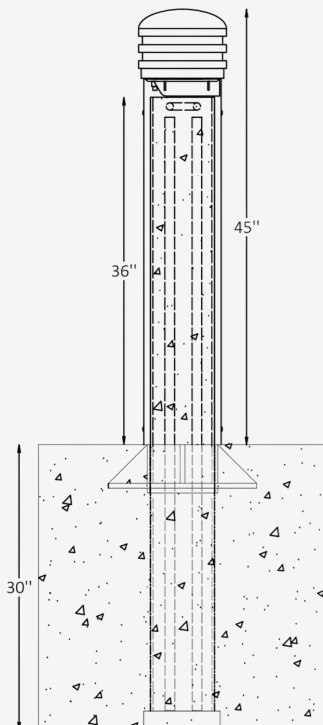


**IMPORTANT:** Carefully read all instructions before installing the fixture. Ignoring these guidelines could result in death, severe injury, or significant property damage. Keep these instructions for future use.

## ⚠ WARNING! RISK OF FIRE, ELECTRIC SHOCK, OR SERIOUS INJURY

- Always turn off power at the circuit breaker before beginning installation, maintenance, or service on the fixture.
- Installation should be carried out by a certified electrician in accordance with the National Electrical Code (NEC) and applicable local regulations.
  - Confirm compatibility between the fixture's rated voltage and the electrical supply before connecting.
  - LED elements are delicate electronic parts. Do not tamper with sealed sections of the fixture or touch LEDs with bare hands or tools.
- Avoid installing the fixture on circuits shared with heavy-duty equipment such as HVAC systems or motors, as this may expose it to harmful power surges.
  - The included driver or transformer must not be bypassed or substituted. Use the fixture only in its original configuration.
- Fixtures must be connected in parallel, each with independent leads. Do not connect in series or daisy-chain multiple units.
- Factory-installed wiring must remain unmodified. Do not cut or alter pre-stripped coaxial or pendant cables.
- When making electrical connections, use only UL-certified waterproof connectors suitable for outdoor use.
- Ensure the mounting surface or foundation is stable, level, and structurally capable of supporting the fixture's weight.
- Select proper mounting hardware for the specific surface type. To preserve the powder-coated finish, avoid direct contact with concrete or rough materials that may cause abrasion or chipping.

## INSTALLATION DIAGRAM



MINIMUM GROUND CONDITIONS REQUIRED (per ASTM F2656 C40, P1):

- Concrete shall have a minimum unconfined compressive strength of 4,000 psi.
- No reinforcing steel (rebar) shall be used in the foundation.
- Approximate concrete volume per bollard: 1.5 cubic yards.
- Minimum excavation dimensions per bollard: 30" (L) x 30" (W) x 30" (D).

## CERTIFICATION



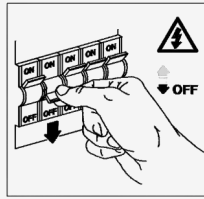
#### Step 1

Carefully unpack the fixture and inspect all components for any signs of damage before beginning installation.

Ensure that the contractor has routed the electrical wiring to the installation location and that the power supply is turned off.

Before digging, always check for potential hazards such as water pipes, gas lines, or underground wiring.

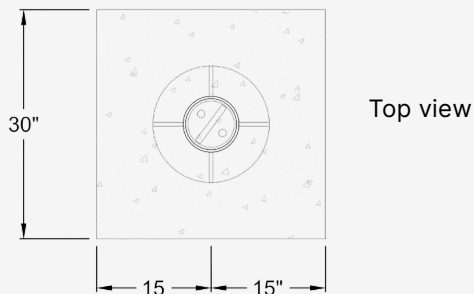
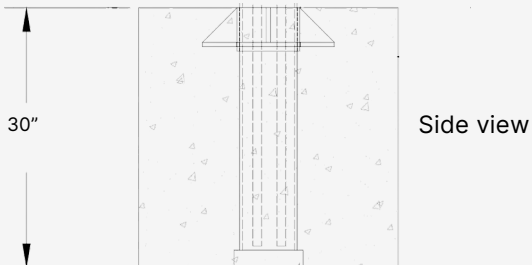
Note: A permit may be required to dig beyond certain depths or in specific locations. Verify local regulations before excavation.



#### Step 3

Plan the layout according to the approved site drawings, and excavate a rectangular hole with dimensions of 30" (L) × 30" (W) × 30" (D) for each bollard.

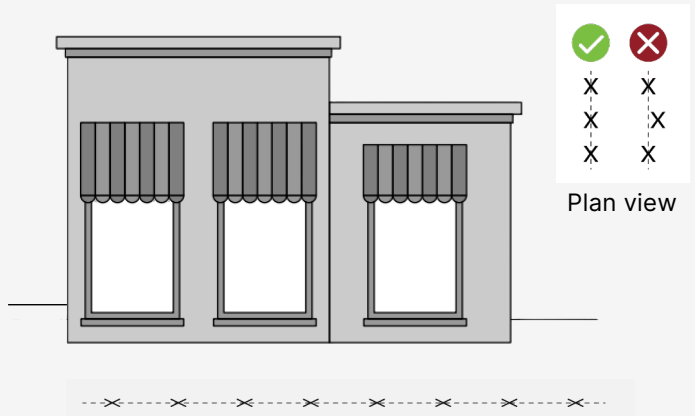
Ensure that the sides are straight and the bottom is level and free of loose material.



#### Step 2

Study the approved site plans and mark the exact location of each bollard on the ground according to the layout.

Verify that the spacing, orientation, and alignment comply with the project drawings and local code requirements.



#### Step 4

Set a brace (such as masonry blocks or rebar chairs) at the bottom of the excavation to elevate the bollard steel off the subgrade.

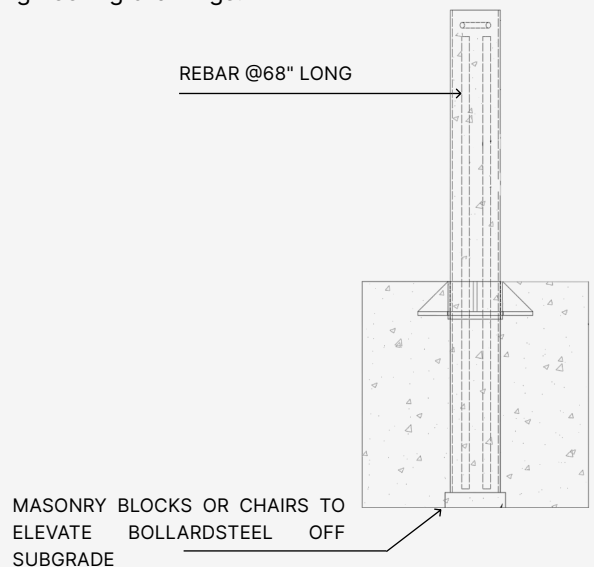
This will ensure the bollard is raised so that the top of the bollard gusset is flush with the finished surface grade.

The final bollard height above grade shall be 36 inches.

Carefully lower the bollard into the excavation and onto the brace.

Note: Crash-rated bollards are heavy. To prevent accidents or injuries, ensure that proper lifting equipment and adequate personnel are available.

After positioning, insert the specified vertical rebar into each bollard tube in accordance with the approved engineering drawings.



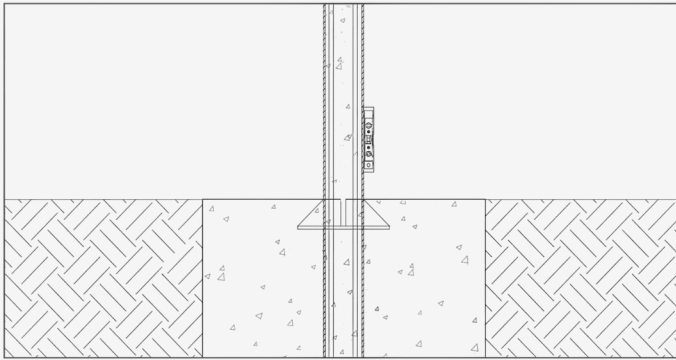
#### CERTIFICATION



#### Step 5

Pour the concrete using a mix with a minimum compressive strength of 4,000 psi.

Fill the bollard tube and foundation completely, continuing until the concrete is level with the finished surface grade. During placement, vibrate the concrete thoroughly to eliminate air pockets and ensure full consolidation around the bollard and any reinforcement.



#### Step 6

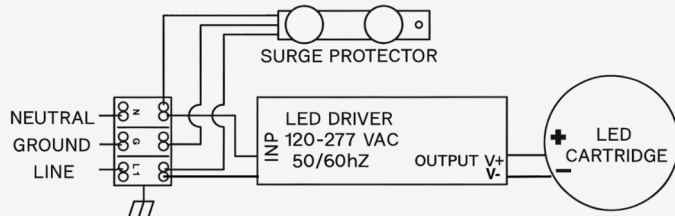
Immediately after placement, hold a level against the side of the bollard and ensure that it is plumb and properly aligned in all directions.

Note: Once the concrete has cured, no further adjustments can be made. Verify alignment before initial set.

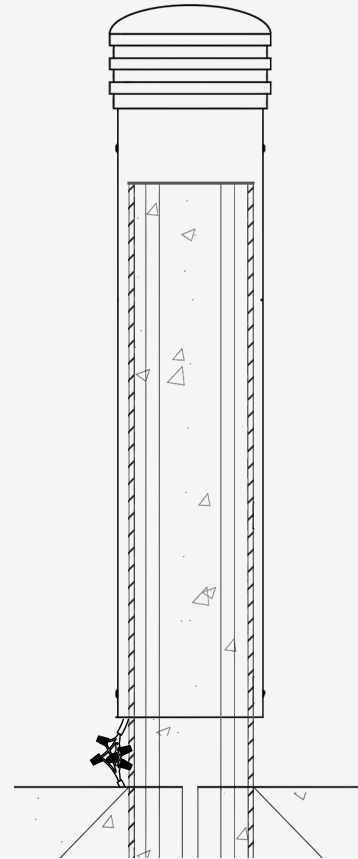
After alignment, patch and smooth the surface around the bollard to match the surrounding finish grade and ensure a clean, uniform appearance.

#### Step 7

Wait until the concrete has fully set.



Connect the wires as follows: black to line (L), white to neutral (N), and green or bare copper to ground (GND), using the wire nuts included in the hardware kit. Make sure excess wires are secured away from any metal surfaces to prevent contact.

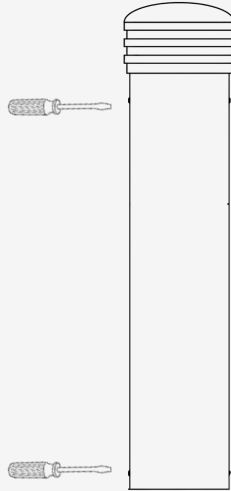


#### CERTIFICATION



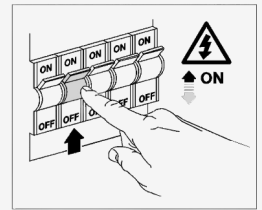
#### Step 8

Place the cover onto the installed base and fasten it securely using the provided screws.



#### Step 9

Once installation is complete, turn the power ON at the main fuse box. The fixture should now operate properly.



## MAINTENANCE NOTES

Clean fixture surfaces using a soft cloth and mild detergent.

#### What to Avoid

- Do not use abrasive cleaners or scouring pads.
- These can scratch the powder coat, exposing aluminum to oxidation.
- Avoid strong solvents like acetone, paint thinner, or alcohol-based cleaners.
- They can break down the powder coating's integrity.
- Don't use high-pressure washers too close to the surface.
- Excessive pressure may damage seals and finishes.
- Never clean under direct sunlight or while hot.
- This may cause streaking or spotting.

#### CERTIFICATION



## LIMITED WARRANTY

A We Lighting warrants that its outdoor bollards and column luminaires are free from defects in materials and workmanship under normal use and conditions for a period of [5 years] from the original date of purchase. This warranty is valid only when the product is installed and operated in accordance with the instructions provided in this manual, the National Electrical Code (NEC), and all applicable local building and electrical regulations.

**This warranty does not apply to:**

- Damage resulting from improper installation, failure to follow installation instructions, or insufficient maintenance.
- Use with incompatible or unstable power supplies, including unauthorized modifications of the fixture or its components.
- Mechanical damage, corrosion, or deterioration caused by installation in conditions that exceed the product's rated specifications (e.g., extreme temperature, humidity, wind load).
- Electrical failure due to power surges, lightning strikes, voltage irregularities, or operation on circuits shared with inductive loads (e.g., HVAC units, pumps, motors).
- Mounting on unstable or unapproved foundations, including surfaces not rated to bear the weight or vibration load of the fixture.
- Installation in submerged or continuously wet environments, unless explicitly rated for such conditions (e.g., IP68 or higher).
- Exposure to aggressive substances such as road salt, industrial chemicals, oil, or airborne pollutants that may degrade the materials or finish.

**Warranty Claims:**

To initiate a warranty claim, please contact A We Lighting's Customer Service team. You will be required to provide:

- Proof of purchase (invoice or receipt)
- A detailed description of the problem
- Photographic evidence of the issue, including installation site and close-up views of the defect

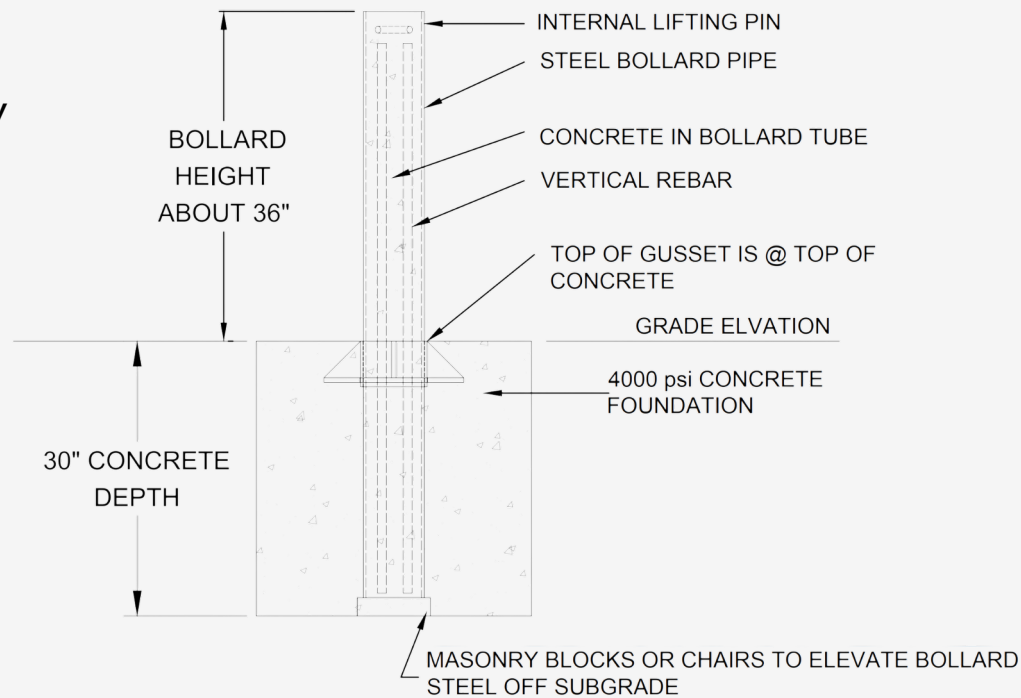
A We Lighting reserves the right to inspect the product (either on-site or via return shipping) to determine whether it qualifies for coverage under this warranty.

## CERTIFICATION

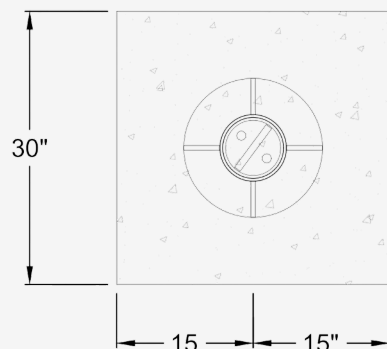


## SINGLE STAND ALONE BOLLARD INSTALLATION

**SIDE VIEW**



**TOP VIEW**



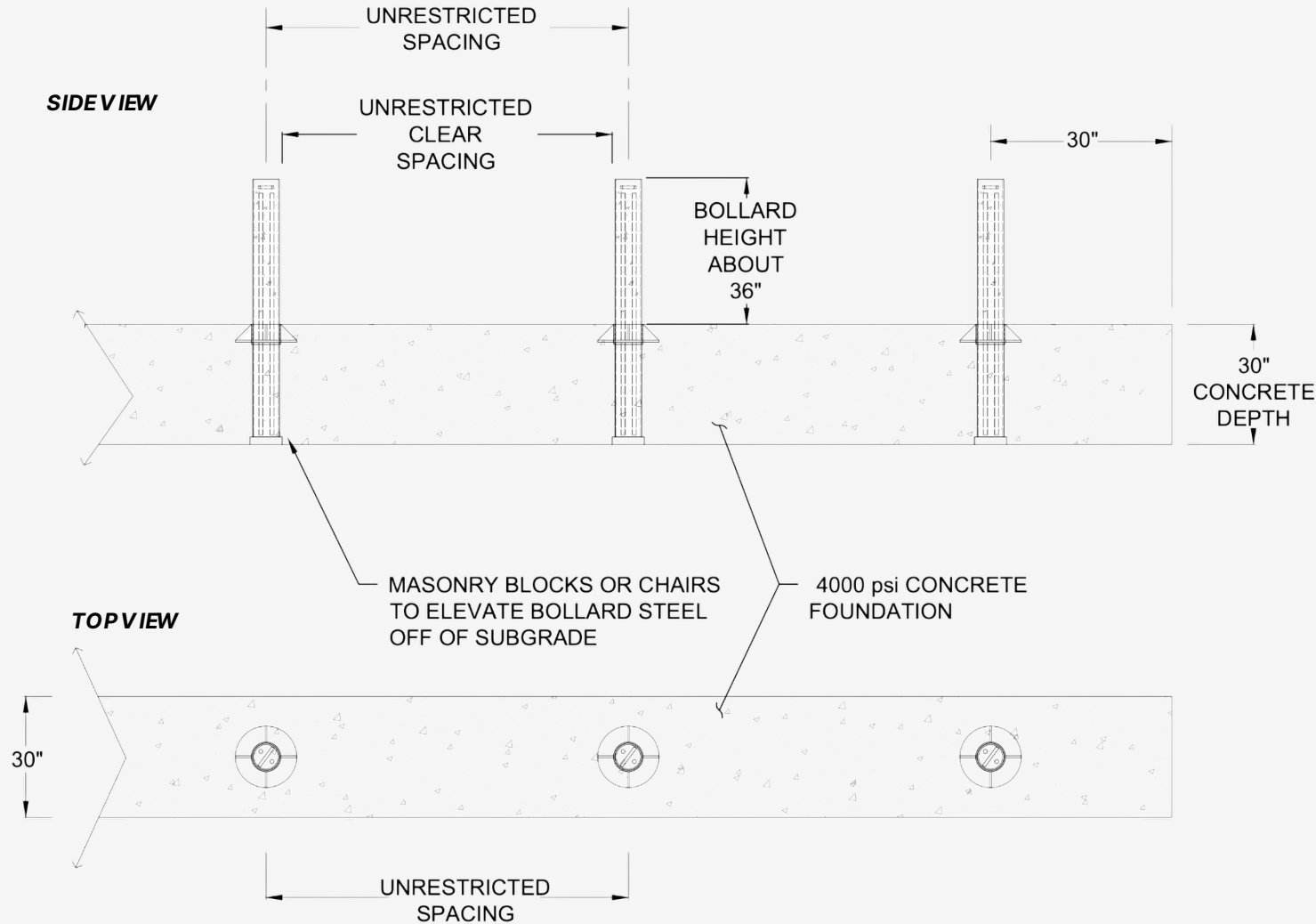
### KEY CAPABILITIES:

1. UNRESTRICTED SPACING BETWEEN BOLLARDS
2. EASY AND QUICK INSTALLATION; EXCAVATE SET BOLLARD AND POUR CONCRETE
3. NO FIELD WELDING, BOLTING OR ASSEMBLY. BOLLARD IS DELIVERED PREFABRICATED AS 1 UNIT
4. SYMMETRICAL BOLLARD DESIGN, IMPACT FROM ANY ANGLE TO BOLLARD PROVIDES THE SAME STOPPING CAPABILITY

### CERTIFICATION



## TYPICAL BOLLARD ARRAY INSTALLATION



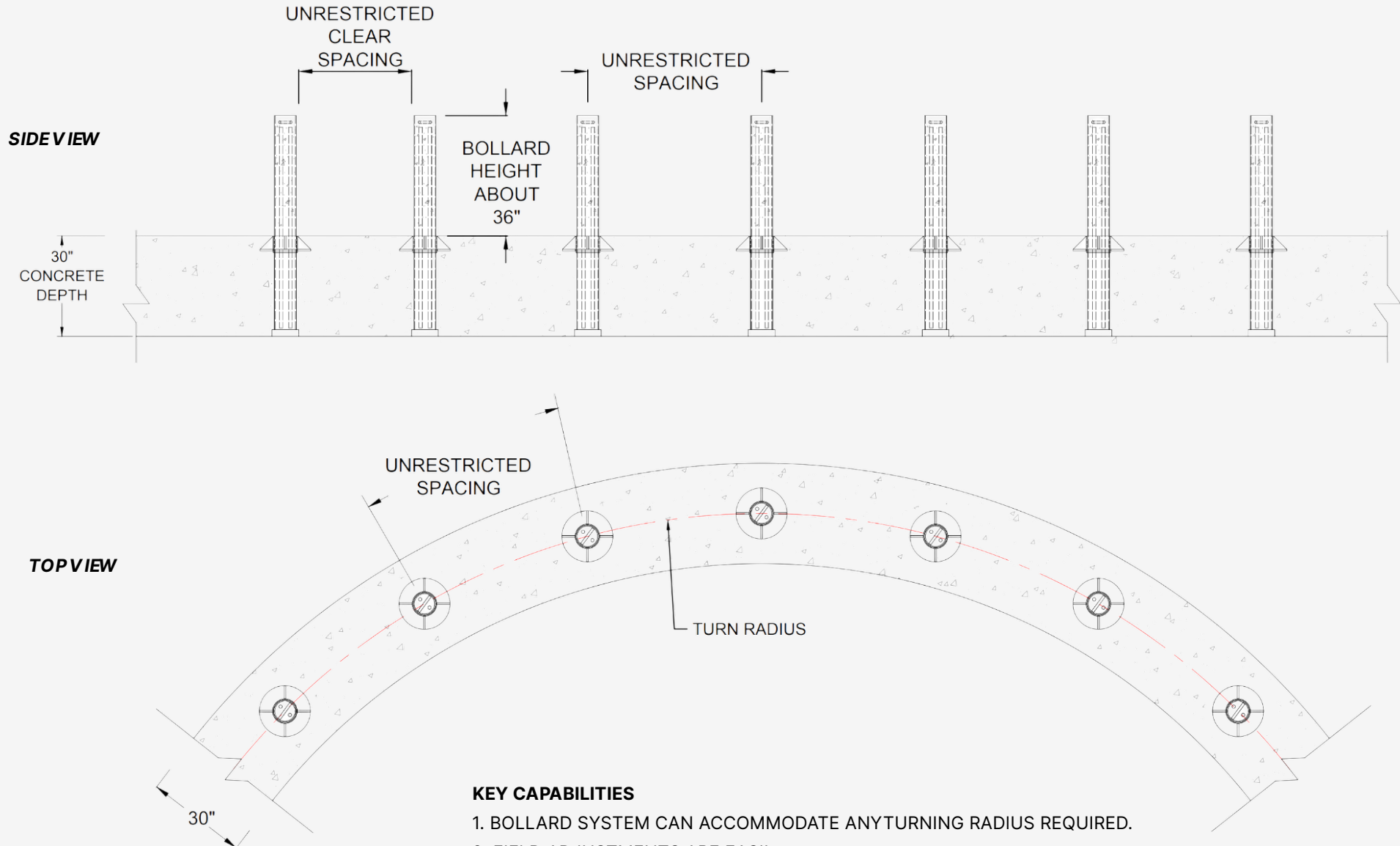
### KEY CAPABILITIES:

1. UNRESTRICTED SPACING BETWEEN BOLLARDS
2. EASY AND QUICK INSTALLATION; EXCAVATE SET BOLLARD AND POUR CONCRETE
3. NO FIELD WELDING, BOLTING OR ASSEMBLY. BOLLARD IS DELIVERED PREFABRICATED AS 1 UNIT
4. SYMMETRICAL BOLLARD DESIGN, IMPACT FROM ANY ANGLE TO BOLLARD PROVIDES THE SAME STOPPING CAPABILITY

### CERTIFICATION



## BOLLARD INSTALLATION WITH TURN



### KEY CAPABILITIES

1. BOLLARD SYSTEM CAN ACCOMMODATE ANY TURNING RADIUS REQUIRED.
2. FIELD ADJUSTMENTS ARE EASILY MADE.

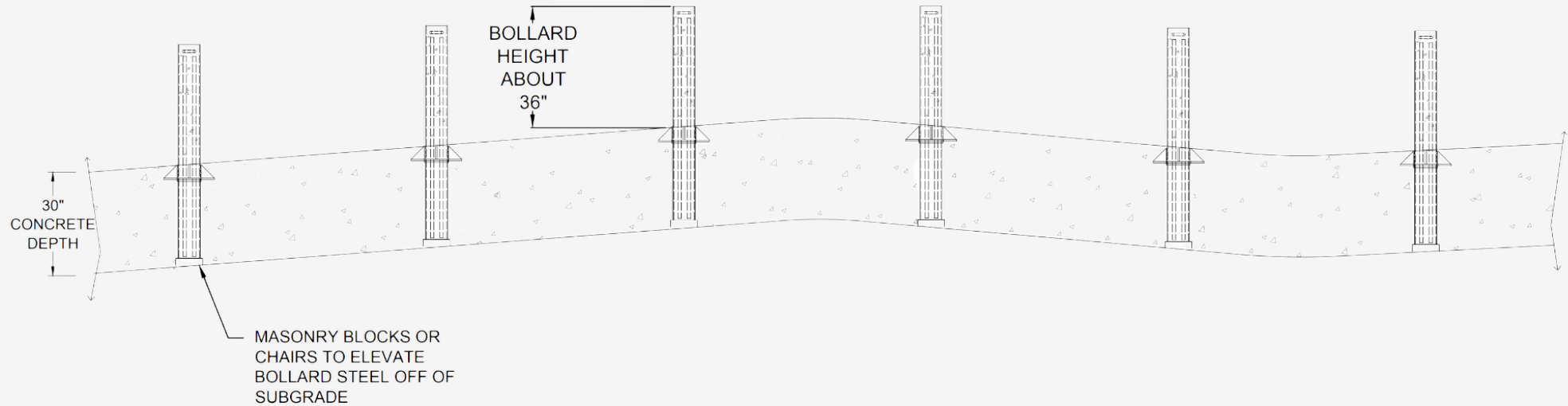
### CERTIFICATION





## BOLLARD INSTALLATION ACROSS GRADE CHANGES

### SIDE VIEW



### TOPVIEW



### CERTIFICATION

