Bollard R-7587

Ø12

Ø9 1/2

Ø16

53 3/4

38 3/4

12 3/8
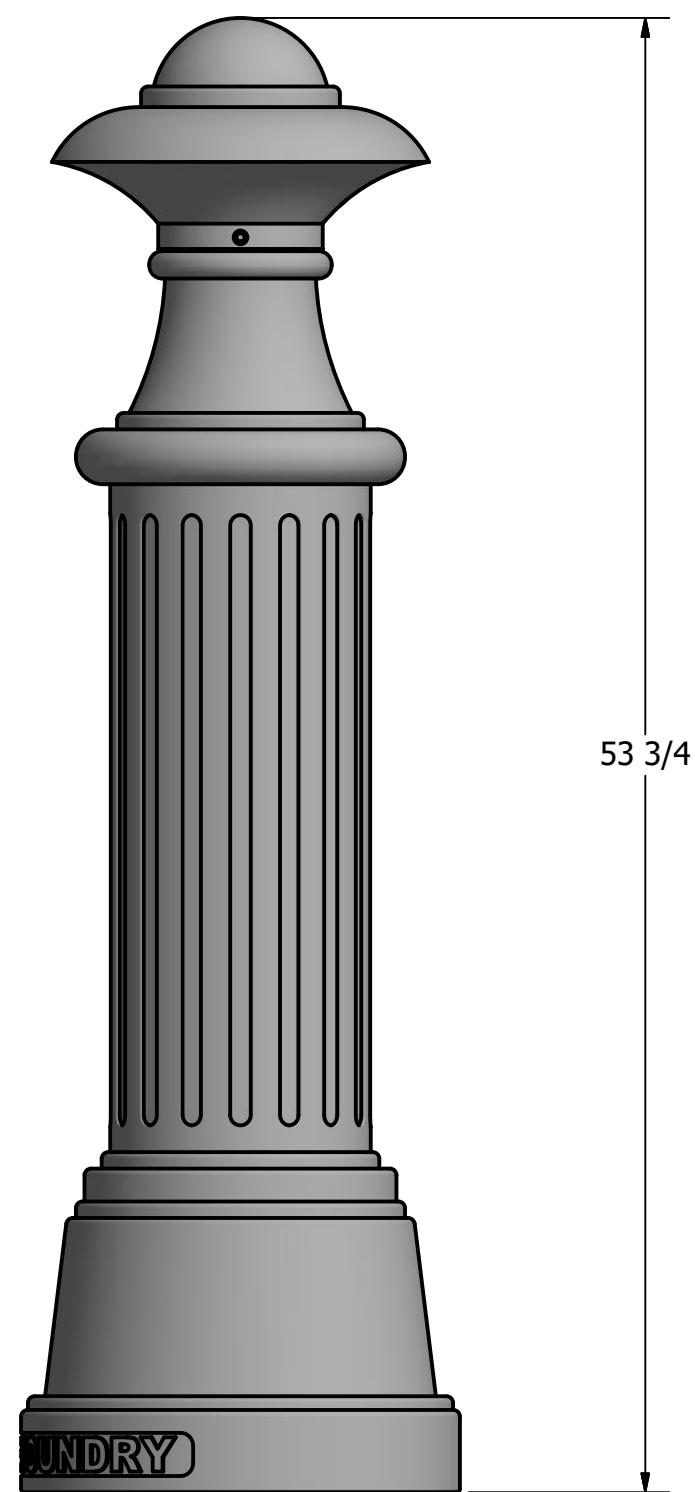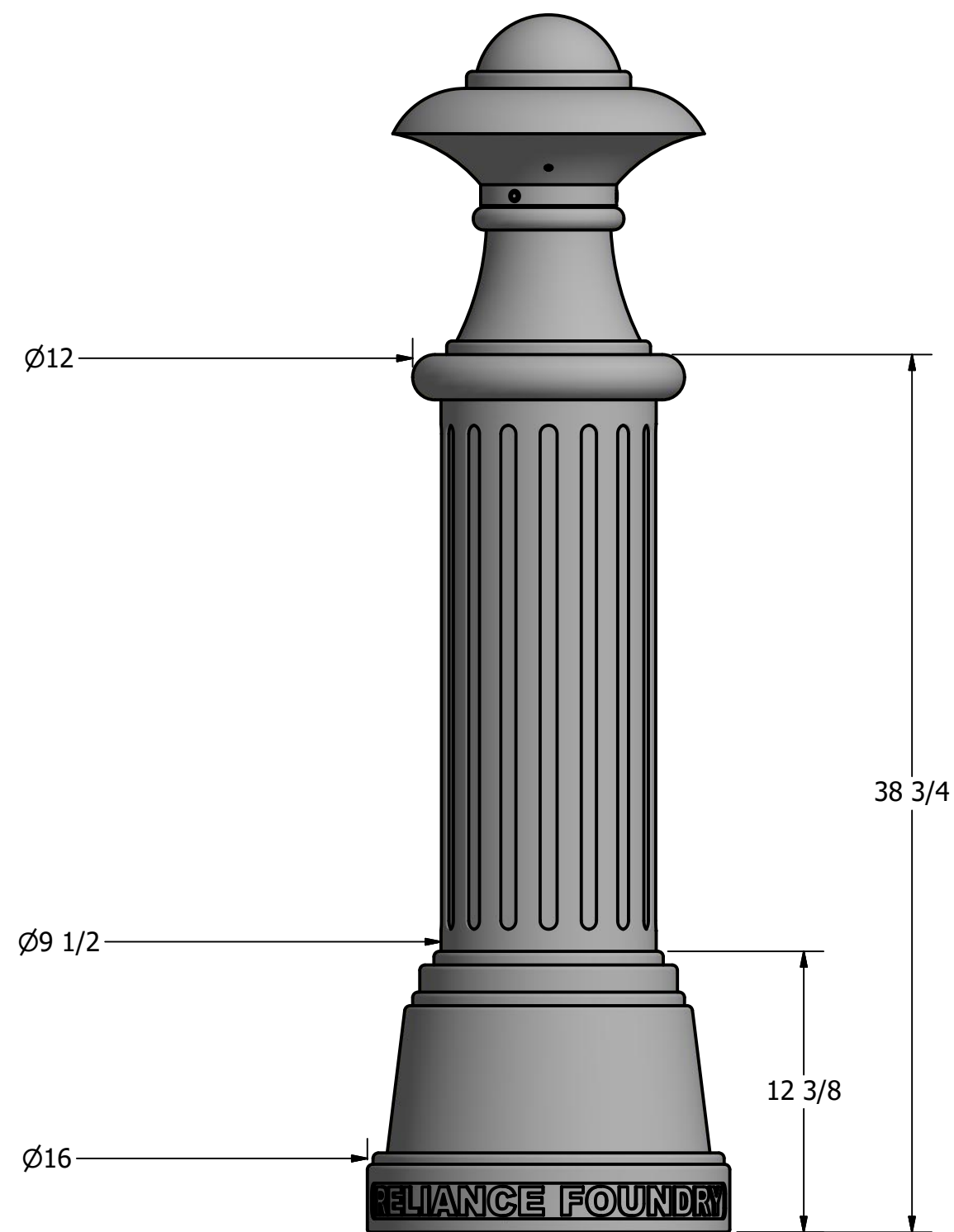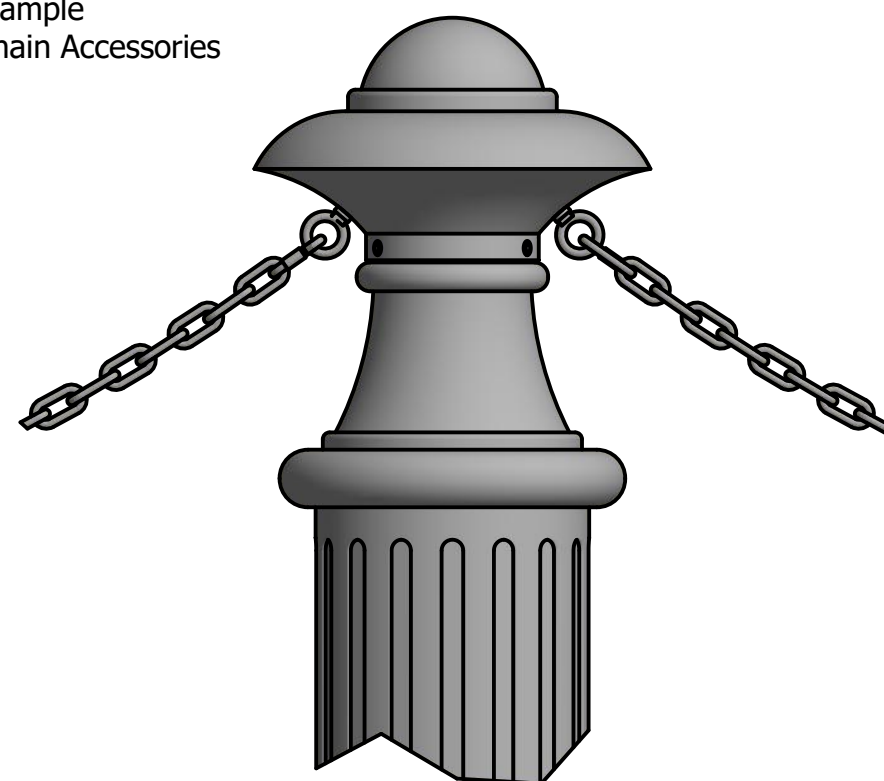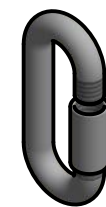
Installation Sample
with 5/16" Chain Accessories

Bollard Chain Eye 3/8"
(Powder Coated)

Quick Link Connector 5/16"
(Powder Coated)

Bollard Chain 5/16"
(Powder Coated)

Optional Accessories:

○ Chain Eye
○ Quick link
○ Chain (5/16")

See Reliance Foundry's optional accessories at:
www.reliance-foundry.com/bollard/accessories-bollards

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
 8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
       (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
       (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
       (see sheet 4 of 9)
○ Fixed - Anchor Casting with Concrete Form
       (see sheet 5 of 9)
○ Post Cover - New Post in New Concrete
          (see sheet 6 of 9)
○ Post Cover - New Post in Existing Concrete
          (see sheet 7 of 9)
○ Post Cover - Existing Post with Adhesive Anchor
          (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
          (see sheet 9 of 9)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

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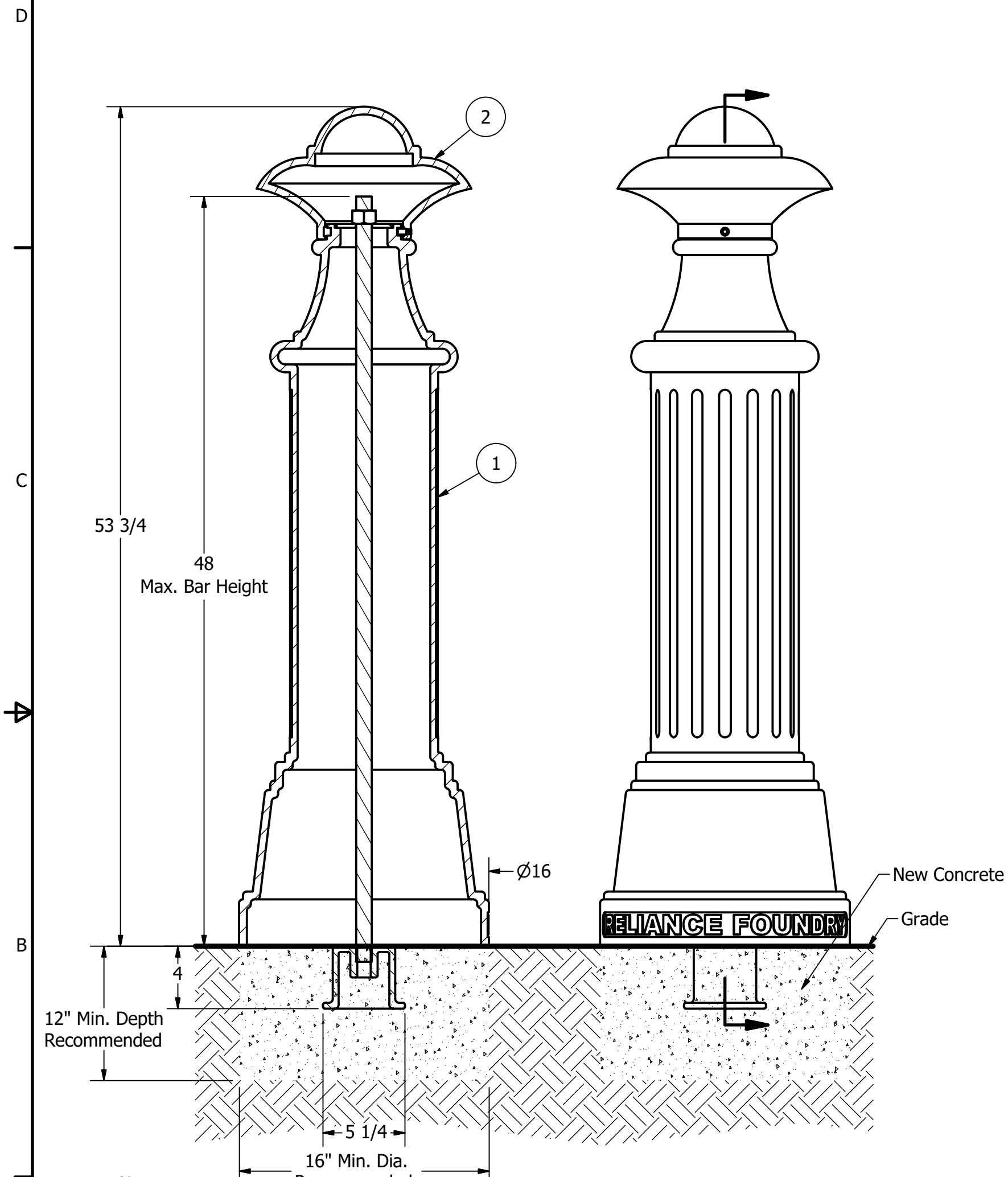— SINCE 1925 —

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1-877-789-3245   info@reliance-foundry.com
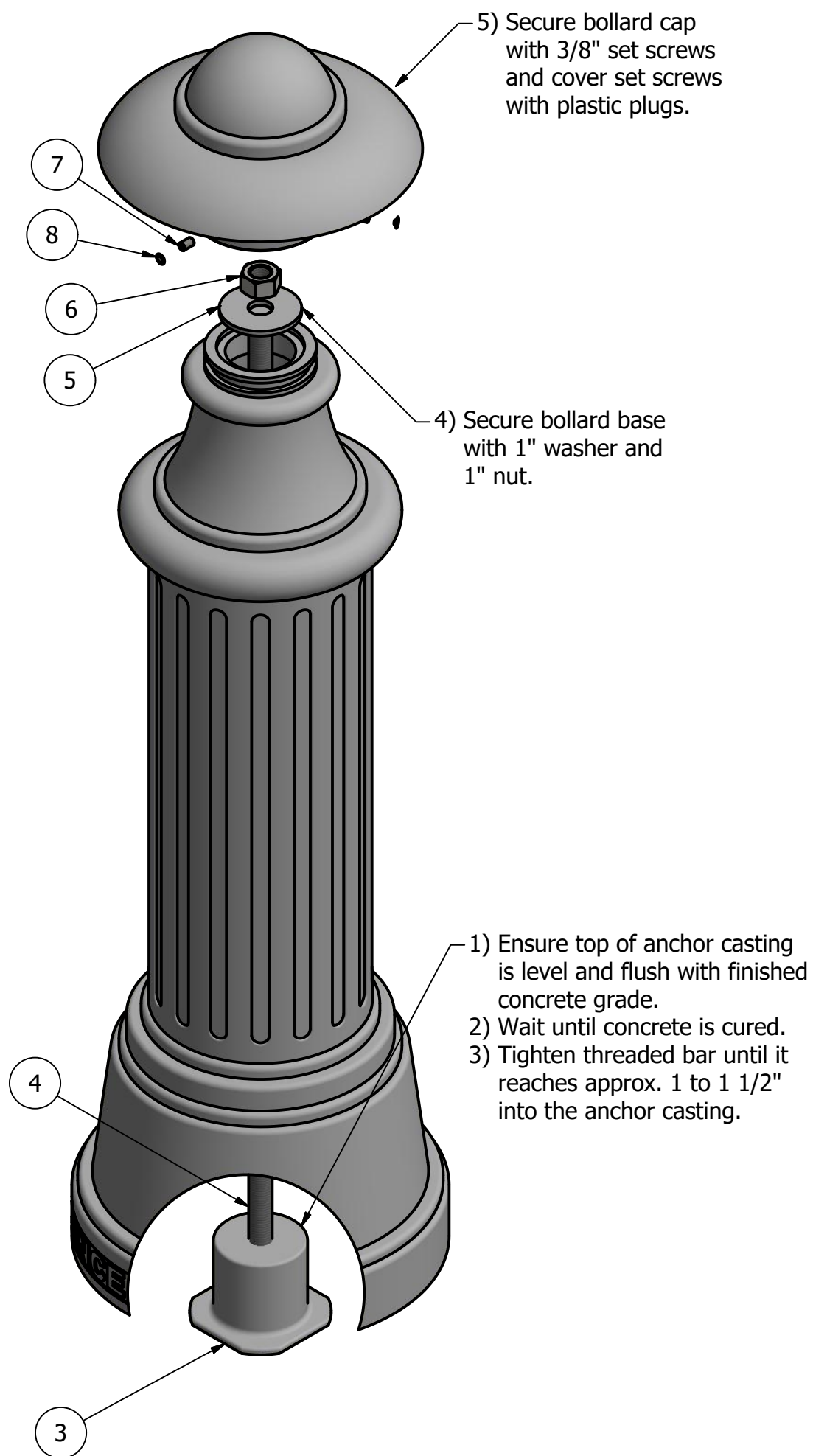www.reliance-foundry.com

TITLE

Bollard R-7587

SIZE		DWG NO	REV
C		R7587	C4
NOT TO SCALE			SHEET 1 OF 9

Bollard R-7587

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
  8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

⊙ Fixed - Anchor Casting in New Concrete
      (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
      (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
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      (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
      (see sheet 9 of 9)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

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5) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

4) Secure bollard base with 1" washer and 1" nut.

1) Ensure top of anchor casting is level and flush with finished concrete grade.
2) Wait until concrete is cured.
3) Tighten threaded bar until it reaches approx. 1 to 1 1/2" into the anchor casting.

53 3/4
48 Max. Bar Height
Ø16
New Concrete
Grade
4
12" Min. Depth Recommended
5 1/4
16" Min. Dia. Recommended

Tools needed:
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

PARTS LIST

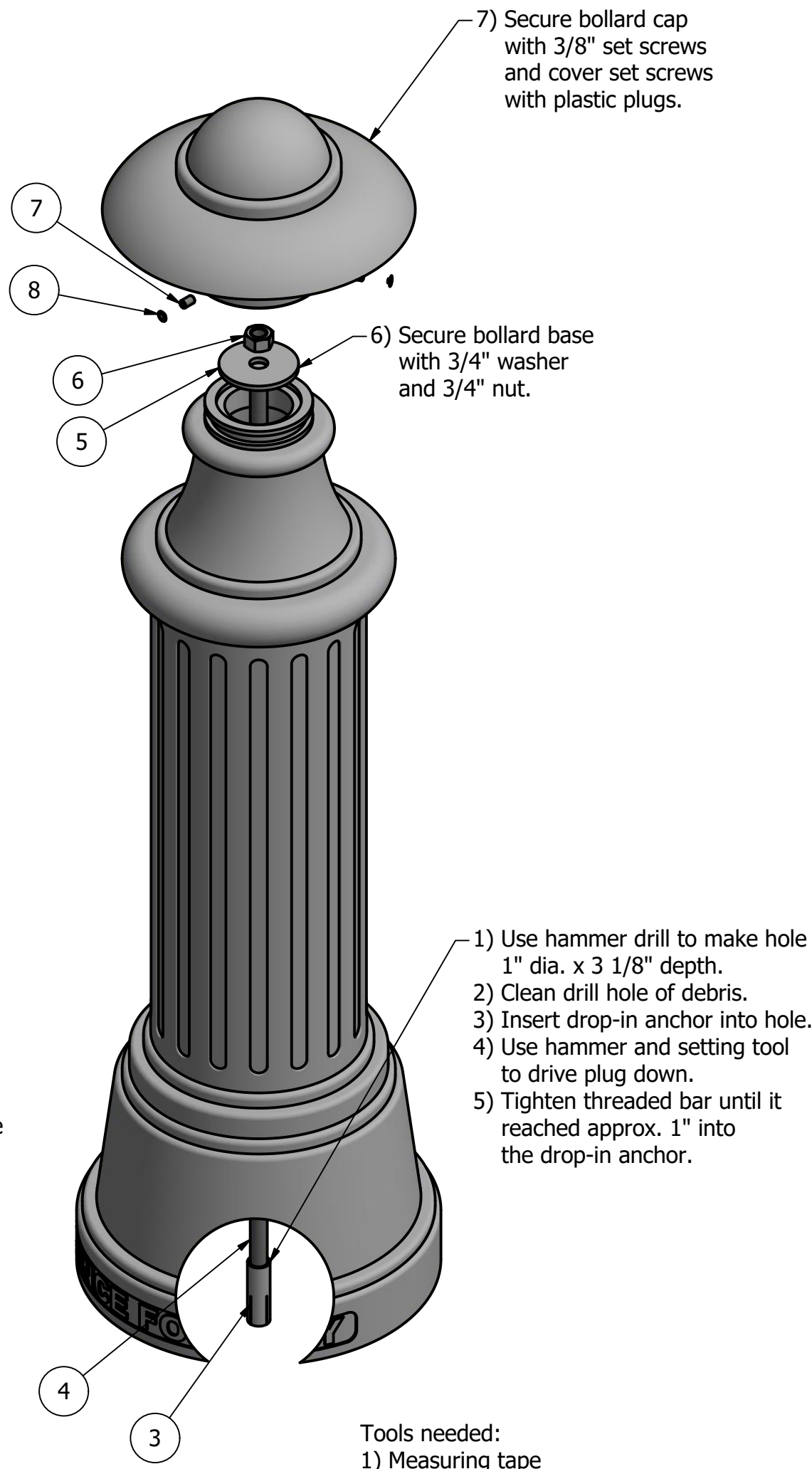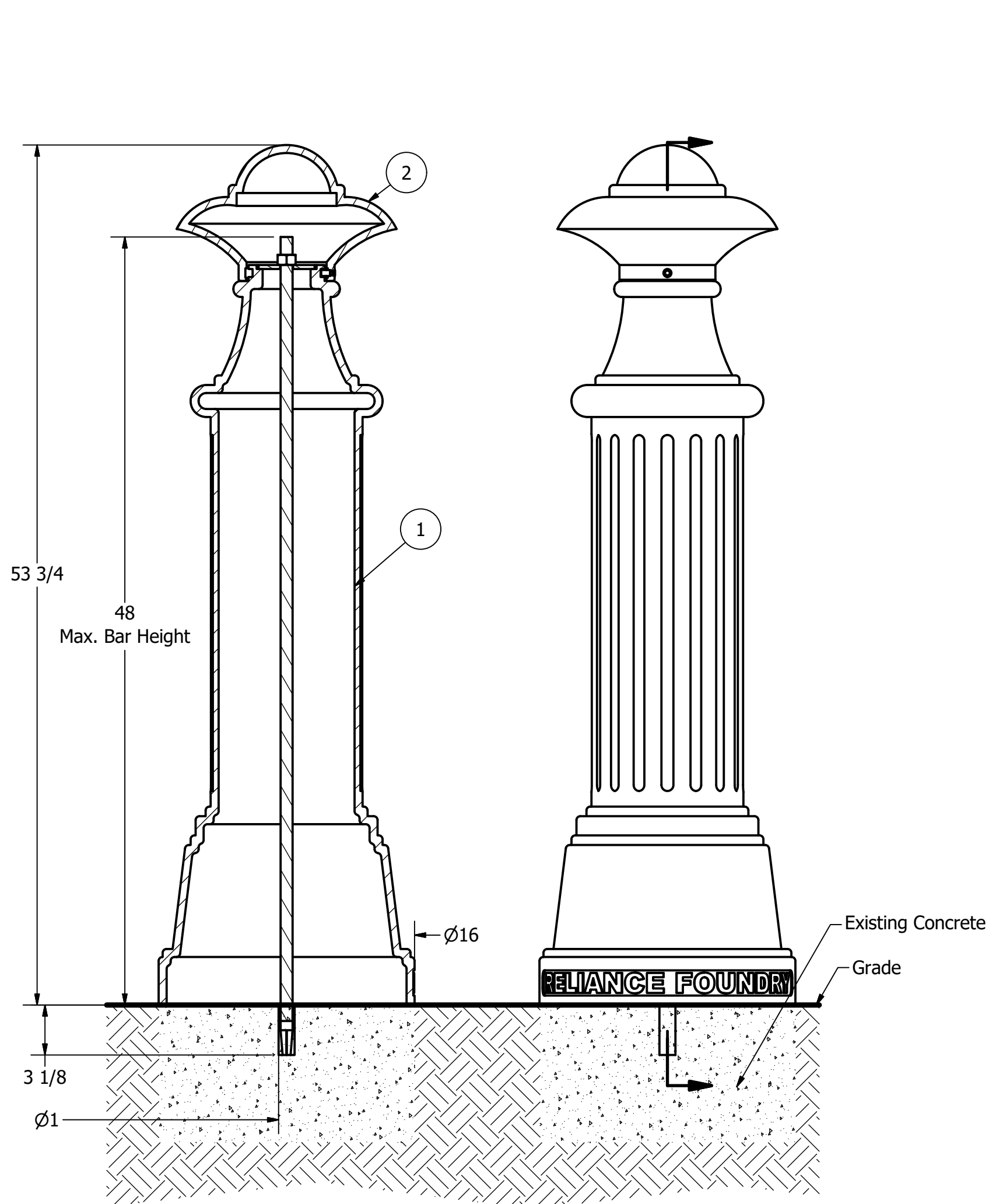| ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7587B	R7587 Base	Ductile Iron Powder Coated	185 lbs
2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	R7500AN 1"	R7500 Anchor Casting 1"	Ductile Iron Hot Dip Galvanized	8 3/8 lbs
4	1	R7500BAR 1"	R7500 Threaded Bar 1" x 49"	Steel Plated	9 1/8 lbs
5	1	Washer 1" OD 3 1/2"	Washer 1" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
6	1	Hex Nut 1"	Hex Nut 1" - requires 1 1/2" wrench	Steel Plated	1/4 lbs
7	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
8	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

TITLE
Bollard R-7587

SIZE: C
DWG NO: R7587
REV: C4
NOT TO SCALE
SHEET 2 OF 9

Bollard R-7587

7) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

6) Secure bollard base with 3/4" washer and 3/4" nut.

53 3/4

48 Max. Bar Height

Ø16

Existing Concrete

Grade

3 1/8

Ø1

1) Use hammer drill to make hole 1" dia. x 3 1/8" depth.
2) Clean drill hole of debris.
3) Insert drop-in anchor into hole.
4) Use hammer and setting tool to drive plug down.
5) Tighten threaded bar until it reached approx. 1" into the drop-in anchor.

Tools needed:
1) Measuring tape
2) 1 1/8" wrench
3) 3/16" hex key
4) Hammer drill
5) 1" Masonry drill bit
6) Hammer
7) Drop-in concrete insert setting tool

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
  8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
       (see sheet 2 of 9)
⊙ Fixed - Concrete Insert Anchor in Existing Concrete
       (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
       (see sheet 4 of 9)
○ Fixed - Anchor Casting with Concrete Form
       (see sheet 5 of 9)
○ Post Cover - New Post in New Concrete
       (see sheet 6 of 9)
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       (see sheet 7 of 9)
○ Post Cover - Existing Post with Adhesive Anchor
       (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
       (see sheet 9 of 9)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

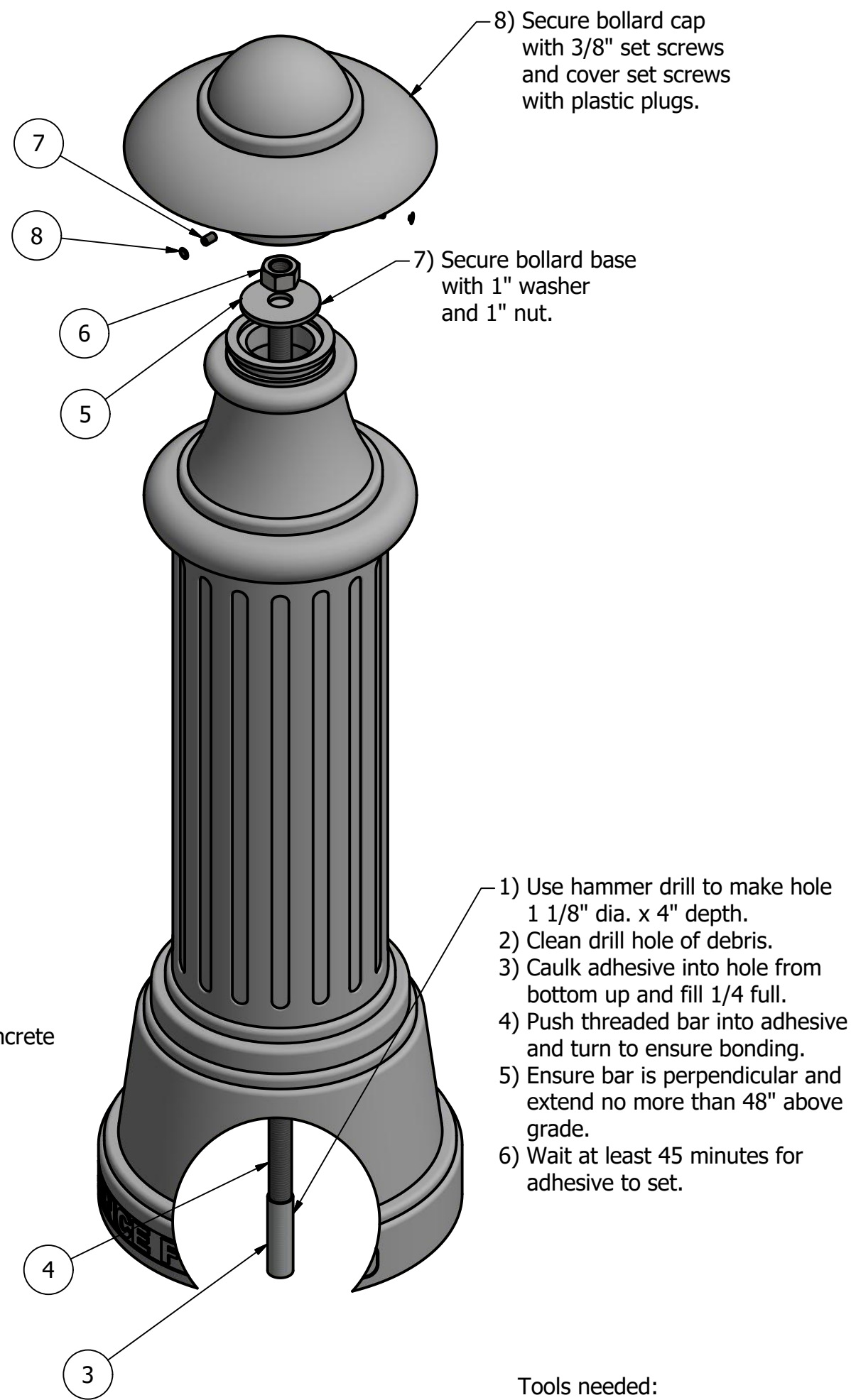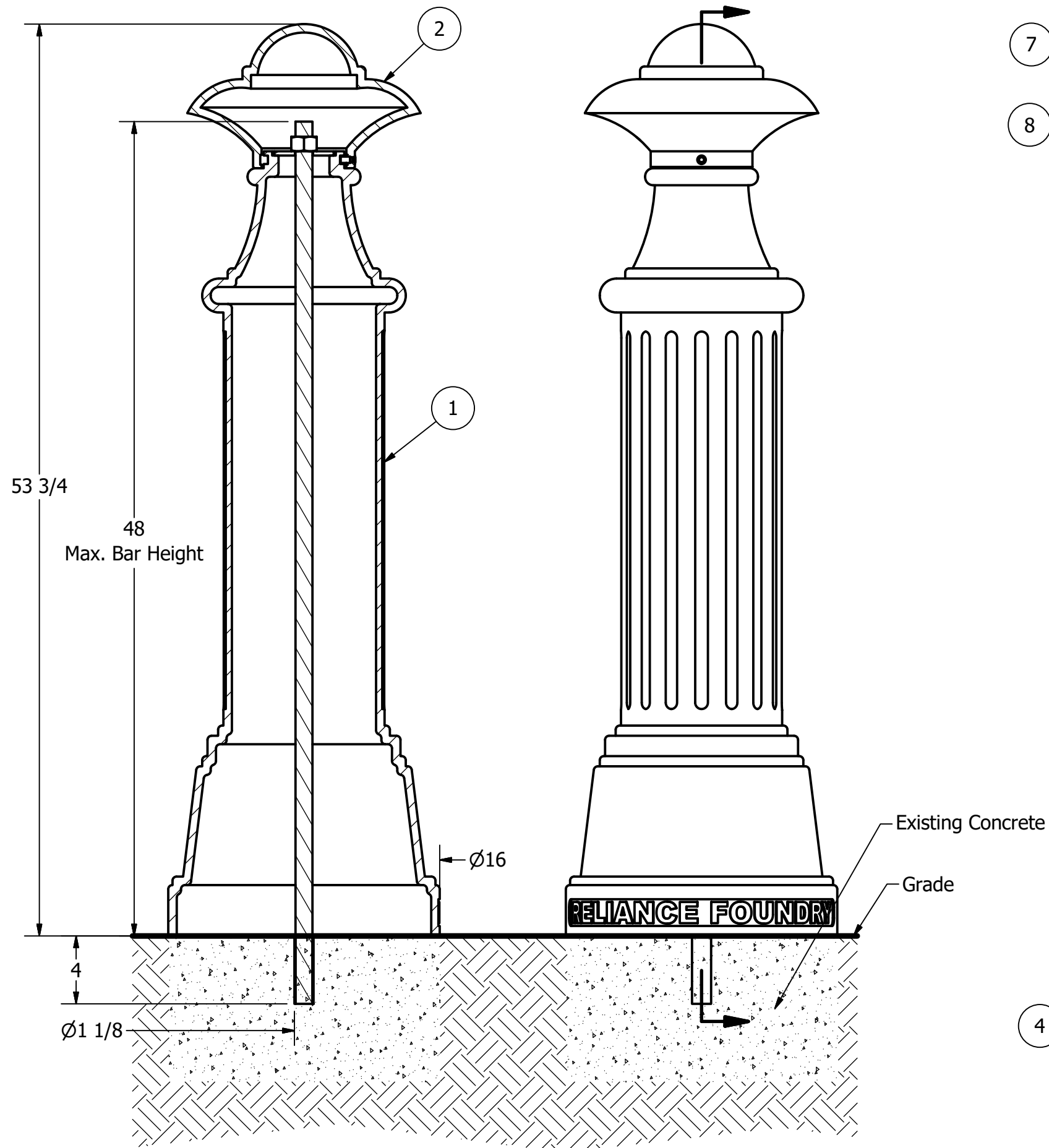| ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
			PARTS LIST		
1	1	R7587B	R7587 Base	Ductile Iron Powder Coated	185 lbs
2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	Drop-in Concrete Insert 3/4"	Drop-in Concrete Insert 3/4" - requires 1" x 3 1/8" hole (dia. x depth)	Steel Plated	1/2 lbs
4	1	R7500BAR 3/4"	R7500 Threaded Bar 3/4" x 49"	Steel Plated	5 1/8 lbs
5	1	Washer 3/4" OD 3 1/2"	Washer 3/4" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
6	1	Hex Nut 3/4"	Hex Nut 3/4" - requires 1 1/8" wrench	Steel Plated	1/8 lbs
7	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
8	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

TITLE

Bollard R-7587

SIZE	DWG NO	REV
C	R7587	C4

NOT TO SCALE

SHEET 3 OF 9

Bollard R-7587

53 3/4

48
Max. Bar Height

Ø16

4

Ø1 1/8

Existing Concrete

Grade

8) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

7) Secure bollard base with 1" washer and 1" nut.

1) Use hammer drill to make hole 1 1/8" dia. x 4" depth.
2) Clean drill hole of debris.
3) Caulk adhesive into hole from bottom up and fill 1/4 full.
4) Push threaded bar into adhesive and turn to ensure bonding.
5) Ensure bar is perpendicular and extend no more than 48" above grade.
6) Wait at least 45 minutes for adhesive to set.

Tools needed:
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key
4) Hammer drill
5) 1 1/8" Masonry drill bit
6) Caulking gun and utility knife

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
  8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
        (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
        (see sheet 3 of 9)
⊙ Fixed - Adhesive Anchor in Existing Concrete
        (see sheet 4 of 9)
○ Fixed - Anchor Casting with Concrete Form
        (see sheet 5 of 9)
○ Post Cover - New Post in New Concrete
        (see sheet 6 of 9)
○ Post Cover - New Post in Existing Concrete
        (see sheet 7 of 9)
○ Post Cover - Existing Post with Adhesive Anchor
        (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
        (see sheet 9 of 9)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
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PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7587B	R7587 Base	Ductile Iron Powder Coated	185 lbs
2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	Adhesive Anchor	AC100+ Gold Adhesive Anchoring System	Vinylester Adhesive Mortar	5/8 lbs
4	1	R7500BAR 1"	R7500 Threaded Bar 1" x 52"	Steel Plated	9 5/8 lbs
5	1	Washer 1" OD 3 1/2"	Washer 1" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
6	1	Hex Nut 1"	Hex Nut 1" - requires 1 1/2" wrench	Steel Plated	1/4 lbs
7	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
8	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

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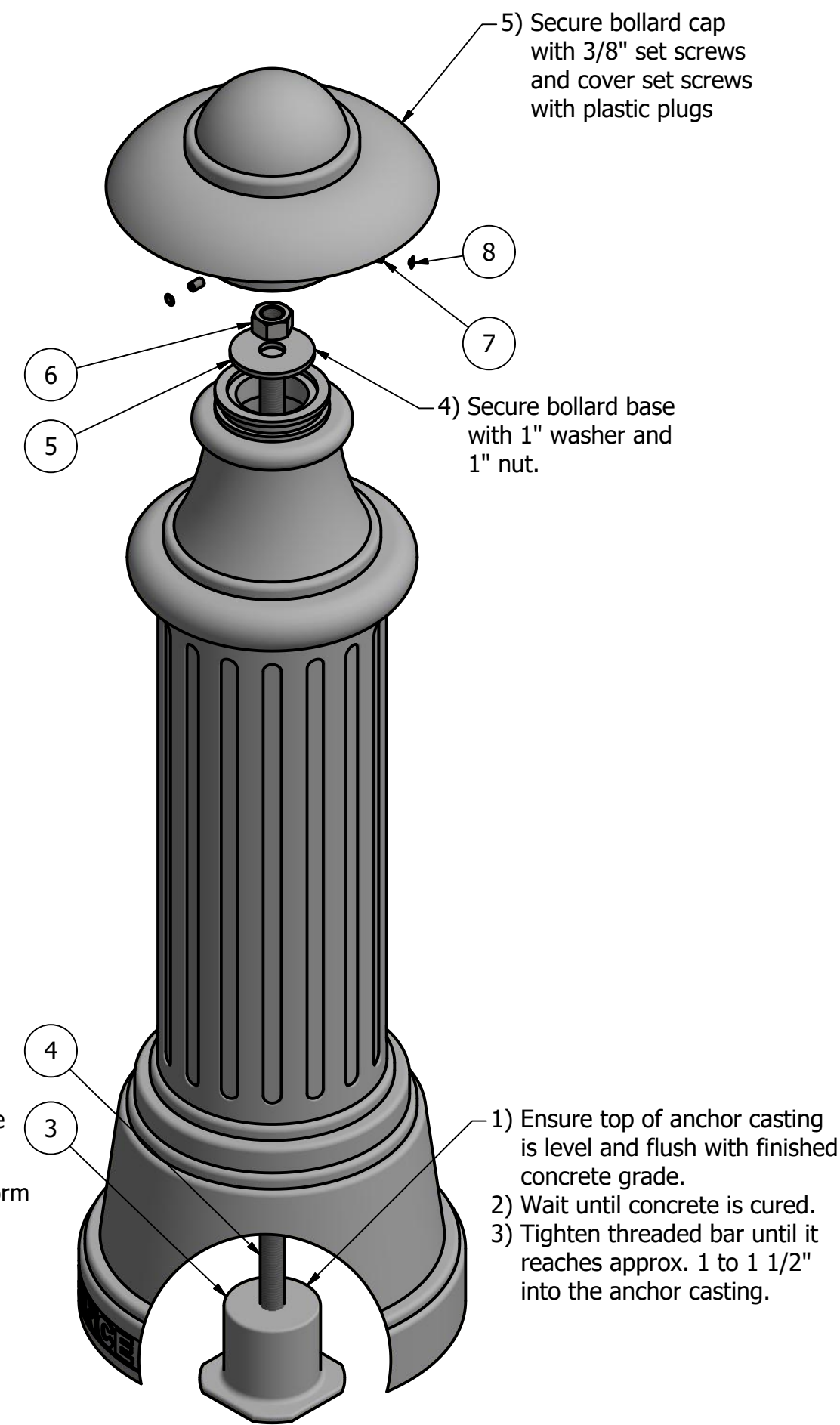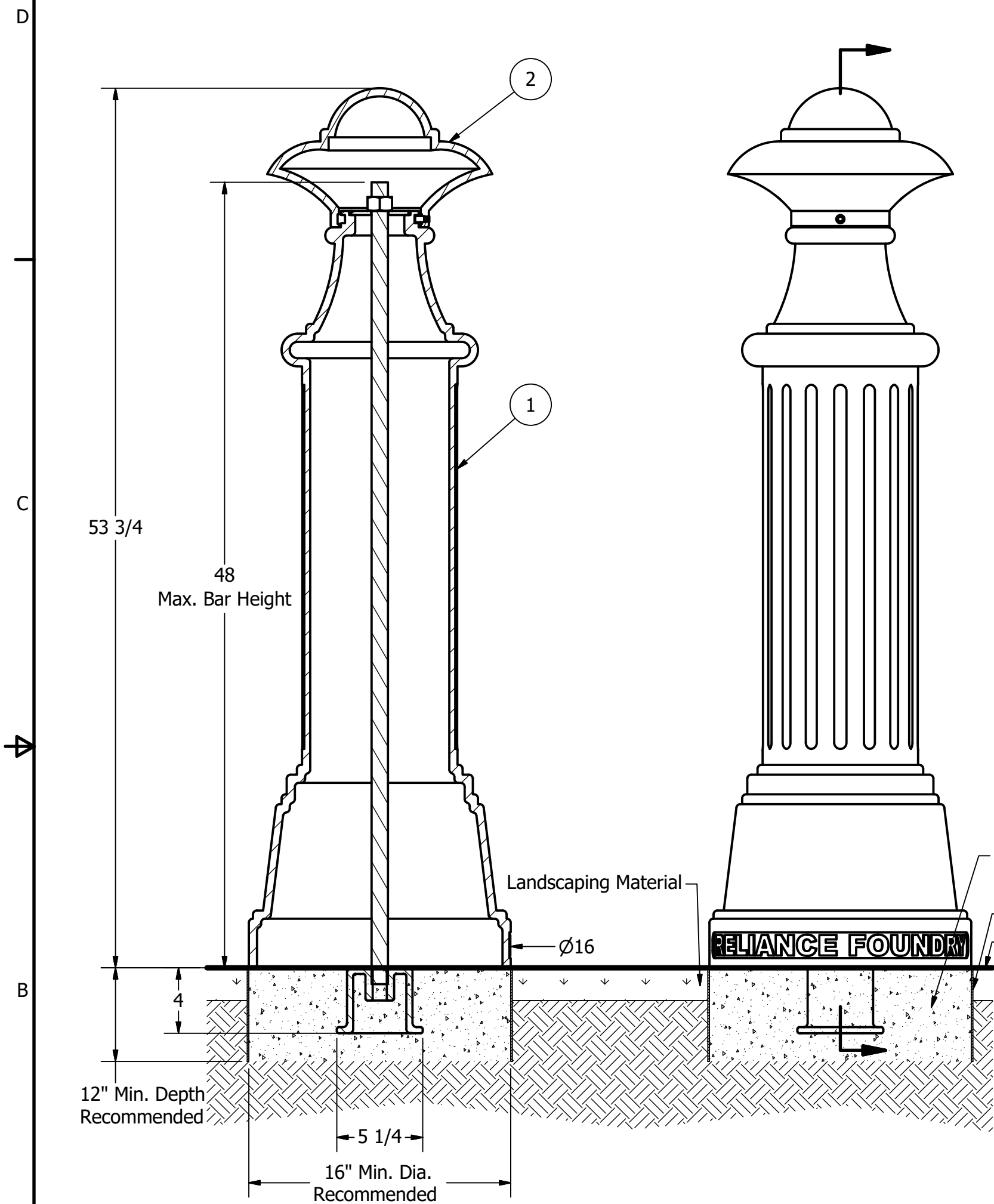
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TITLE

Bollard R-7587

SIZE C	DWG NO R7587	REV C4

NOT TO SCALE

SHEET 4 OF 9

Bollard R-7587

5) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs

4) Secure bollard base with 1" washer and 1" nut.

1) Ensure top of anchor casting is level and flush with finished concrete grade.
2) Wait until concrete is cured.
3) Tighten threaded bar until it reaches approx. 1 to 1 1/2" into the anchor casting.

53 3/4
48 Max. Bar Height
Ø16
4
12" Min. Depth Recommended
5 1/4
16" Min. Dia. Recommended

Landscaping Material
New Concrete
Concrete Form
Grade

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
  8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
      (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
      (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
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      (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
      (see sheet 9 of 9)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:

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Notes:
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Tools needed:
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key

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TITLE

Bollard R-7587

SIZE C		DWG NO R7587	REV C4
NOT TO SCALE			SHEET 5 OF 9

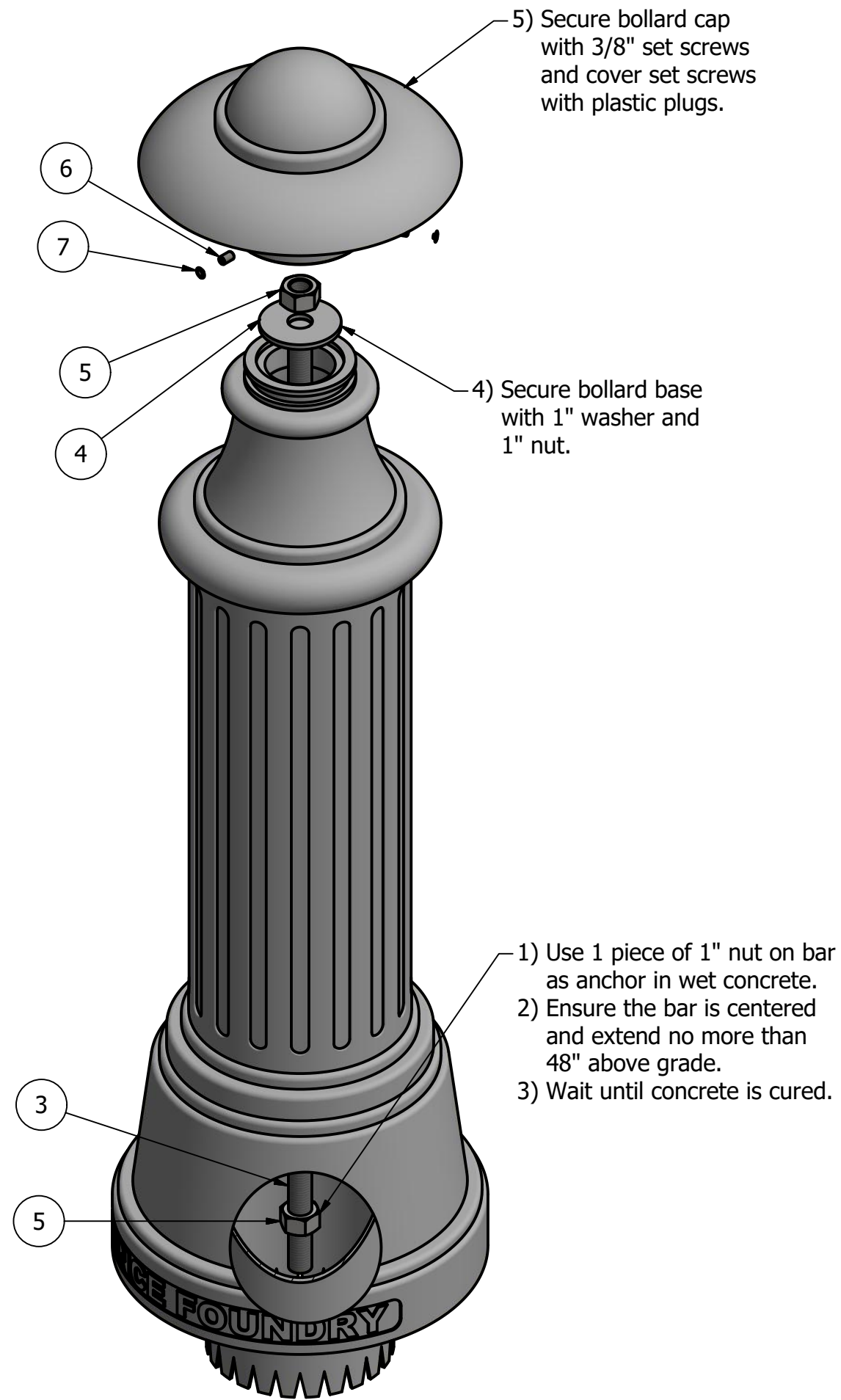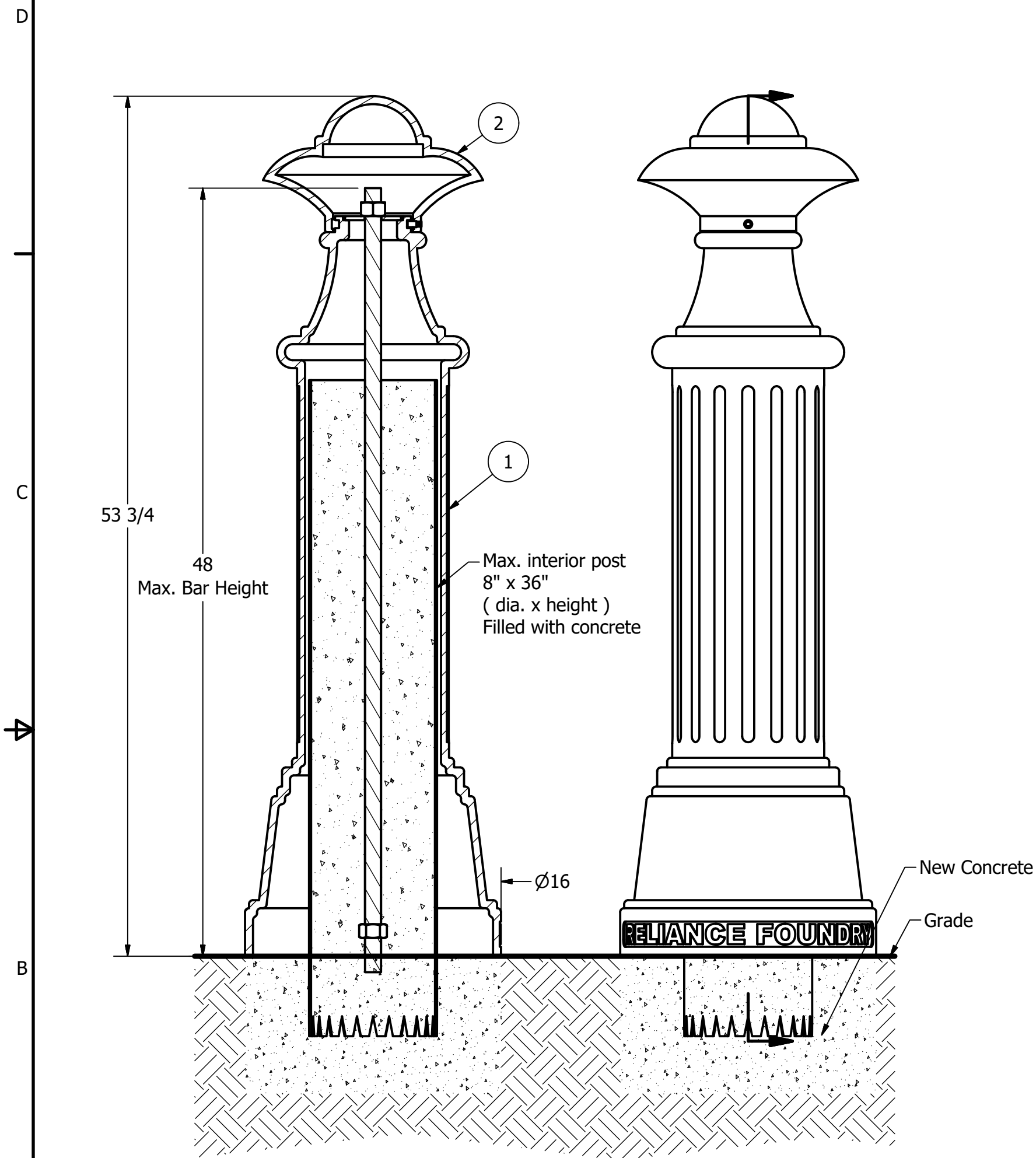| PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
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2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	R7500AN 1"	R7500 Anchor Casting 1"	Ductile Iron Hot Dip Galvanized	8 3/8 lbs
4	1	R7500BAR 1"	R7500 Threaded Bar 1" x 49"	Steel Plated	9 1/8 lbs
5	1	Washer 1" OD 3 1/2"	Washer 1" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
6	1	Hex Nut 1"	Hex Nut 1" - requires 1 1/2" wrench	Steel Plated	1/4 lbs
7	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
8	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

Bollard R-7587

5) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

53 3/4

48 Max. Bar Height

1 — Max. interior post 8" x 36" (dia. x height) Filled with concrete

Ø16

New Concrete

Grade

4) Secure bollard base with 1" washer and 1" nut.

1) Use 1 piece of 1" nut on bar as anchor in wet concrete.
2) Ensure the bar is centered and extend no more than 48" above grade.
3) Wait until concrete is cured.

General Description:

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Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
 8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
 (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
 (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
 (see sheet 4 of 9)
○ Fixed - Anchor Casting with Concrete Form
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 (see sheet 7 of 9)
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 (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
 (see sheet 9 of 9)

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Care and Maintenance:

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Tools needed:
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key

TITLE

Bollard R-7587

SIZE C	DWG NO R7587	REV C4
NOT TO SCALE		SHEET 6 OF 9

PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
1	1	R7587B	R7587 Base	Ductile Iron Powder Coated	185 lbs
2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	R7500BAR 1"	R7500 Threaded Bar 1" x 49"	Steel Plated	9 1/8 lbs
4	1	Washer 1" OD 3 1/2"	Washer 1" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
5	2	Hex Nut 1"	Hex Nut 1" - requires 1 1/2" wrench	Steel Plated	1/4 lbs
6	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
7	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

Bollard R-7587

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
  8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
        (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
        (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
        (see sheet 4 of 9)
○ Fixed - Anchor Casting with Concrete Form
        (see sheet 5 of 9)
○ Post Cover - New Post in New Concrete
        (see sheet 6 of 9)
⊙ Post Cover - New Post in Existing Concrete
        (see sheet 7 of 9)
○ Post Cover - Existing Post with Adhesive Anchor
        (see sheet 8 of 9)
○ Post Cover - Existing Post with Concrete Anchor
        (see sheet 9 of 9)

For more information on bollard post installation, please visit:
www.reliance-foundry.com/bollard/installation-bollards

Care and Maintenance:

Reliance's line of bollards are finished with a long-lasting powder-coating. Proper care and maintenance are required. Regularly-performed inspections and routine cleaning will ensure that a bollard retains its aesthetic appeal and does not become damaged by the elements.

See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

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53 3/4

48
Max. Bar Height

Max. interior post
8" x 36"
(dia. x height)
Filled with concrete

Existing Concrete

Ø16

New Post

Grade

5) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

4) Secure bollard base with 1" washer and 1" nut.

1) Use 1 piece of 1" nut on bar as anchor in wet concrete.
2) Ensure the bar is centered and extend no more than 48" above grade.
3) Wait until concrete is cured.

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
2) Minimum foundation sizes depend on local soil conditions, weather conditions, and engineering requirements.
3) Dimensions provided herein is for reference only. Please consult Reliance Foundry sales professionals if any dimension is critical to your particular installation.
4) Reliance Foundry reserves the right to amend design and specifications without prior notice for product improvement.

Tools needed:
1) Measuring tape
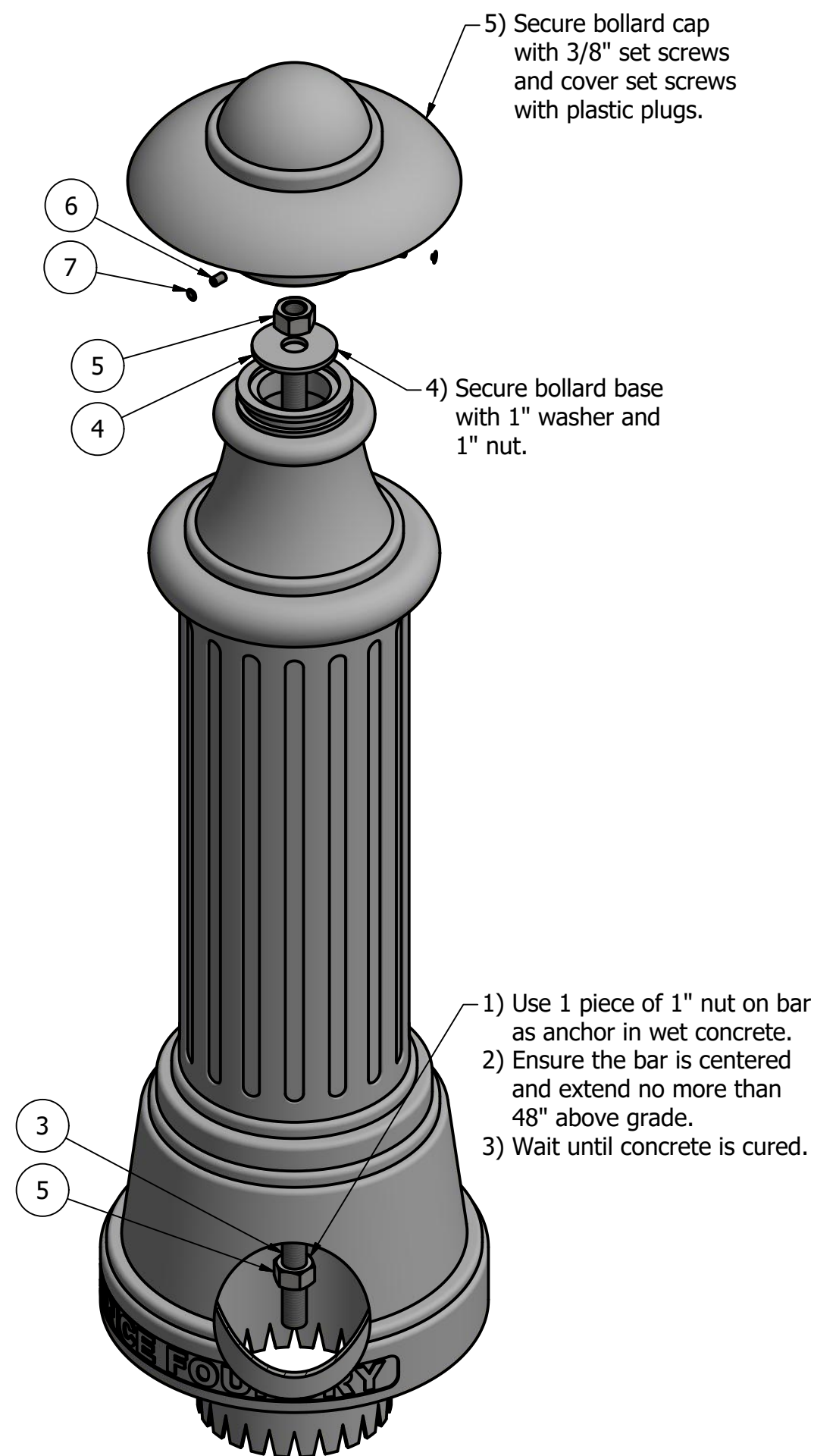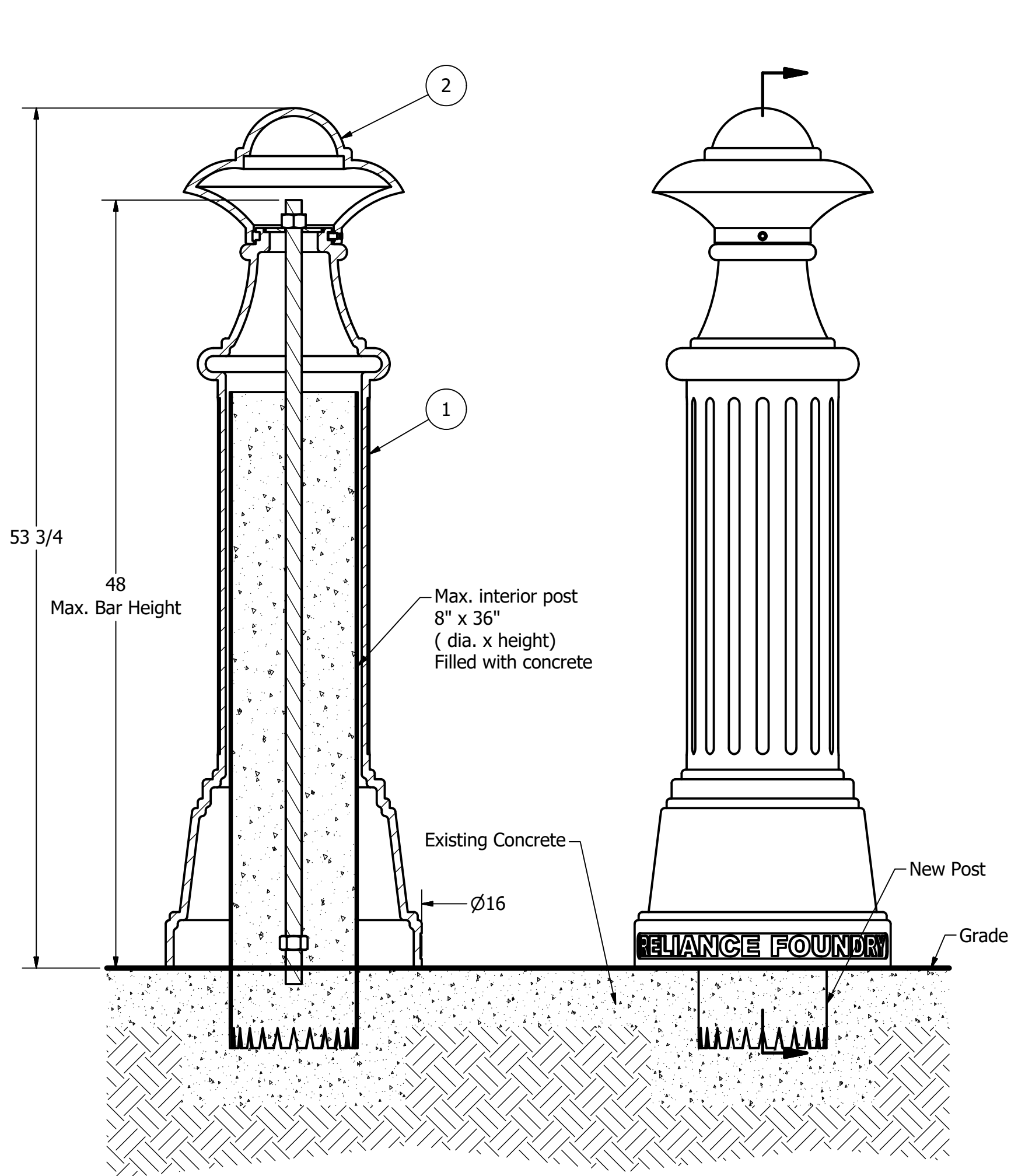2) 1 1/2" wrench
3) 3/16" hex key

RELIANCE FOUNDRY
— SINCE 1925 —

Unit 207, 6450 - 148 Street, Surrey, BC V3S 7G7, Canada
1-877-789-3245   info@reliance-foundry.com
www.reliance-foundry.com

TITLE

Bollard R-7587

SIZE		DWG NO		REV
C		R7587		C4
NOT TO SCALE			SHEET 7 OF 9	

PARTS LIST

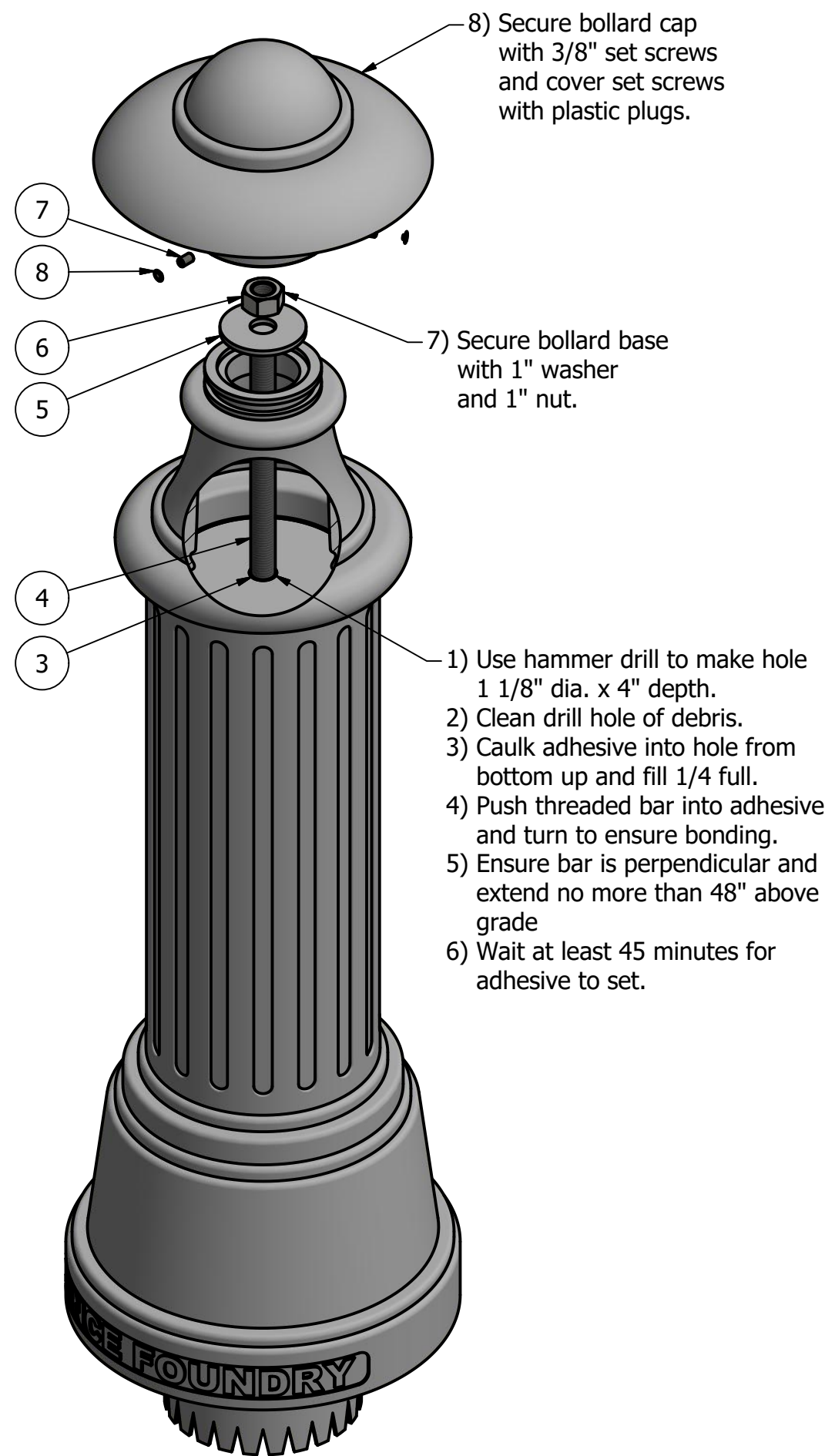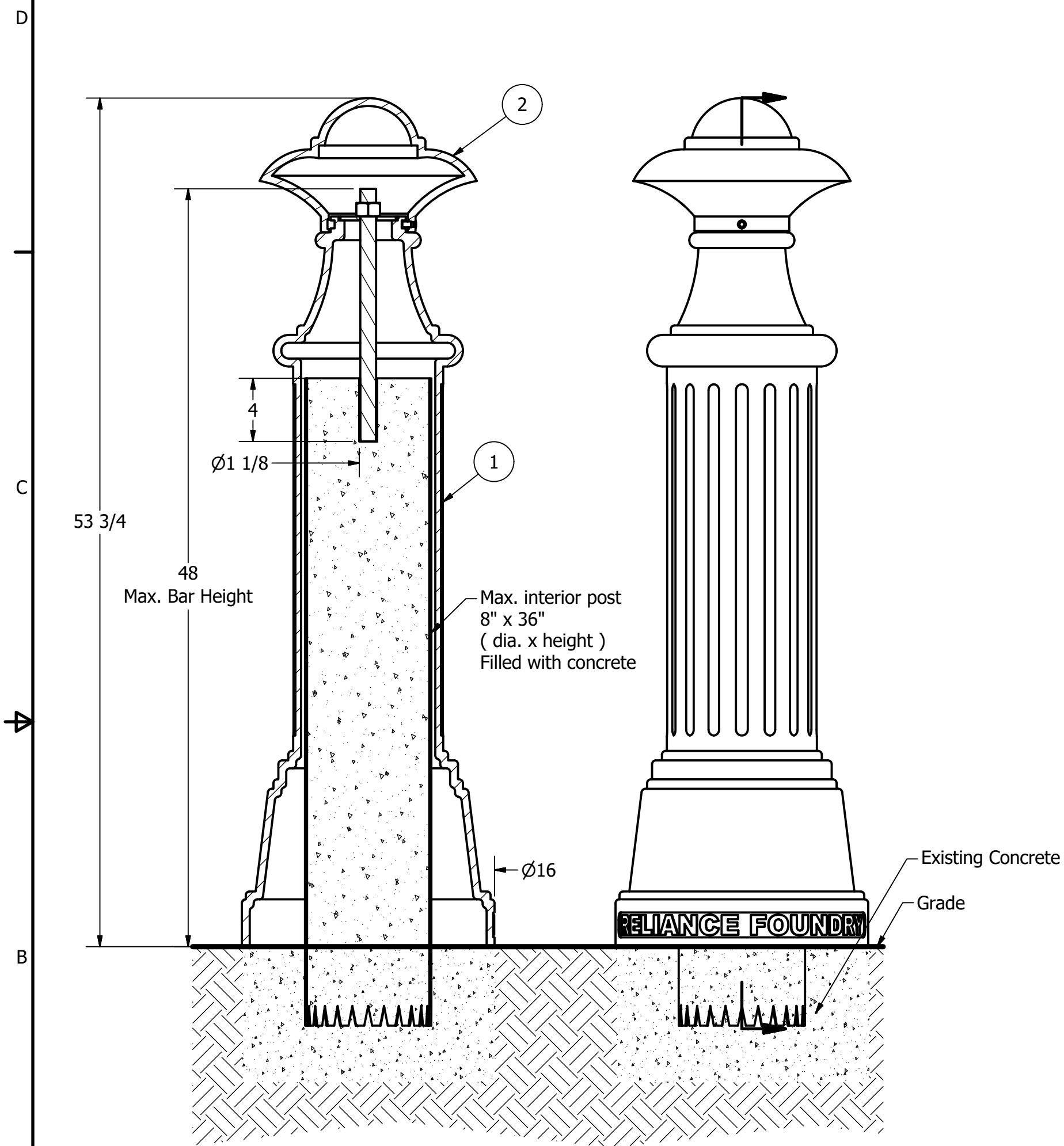| ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
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2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	R7500BAR 1"	R7500 Threaded Bar 1" x 49"	Steel Plated	9 1/8 lbs
4	1	Washer 1" OD 3 1/2"	Washer 1" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
5	2	Hex Nut 1"	Hex Nut 1" - requires 1 1/2" wrench	Steel Plated	1/4 lbs
6	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
7	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

Bollard R-7587

8) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

7) Secure bollard base with 1" washer and 1" nut.

1) Use hammer drill to make hole 1 1/8" dia. x 4" depth.
2) Clean drill hole of debris.
3) Caulk adhesive into hole from bottom up and fill 1/4 full.
4) Push threaded bar into adhesive and turn to ensure bonding.
5) Ensure bar is perpendicular and extend no more than 48" above grade
6) Wait at least 45 minutes for adhesive to set.

Max. interior post
8" x 36"
(dia. x height)
Filled with concrete

53 3/4
48 Max. Bar Height
4
Ø1 1/8
Ø16

Existing Concrete
Grade

RELIANCE FOUNDRY

Tools needed:
1) Measuring tape
2) 1 1/2" wrench
3) 3/16" hex key
4) Hammer drill
5) 1 1/8" Masonry drill bit
6) Caulking gun and utility knife

General Description:

The R-7587 Decorative Bollard is modelled after cannon barrels once used as boundary markers to demarcate newly conquered territories. R-7587 bollards are topped with a disc-style finial for modern decorative flair. Made from versatile ductile iron, its wide body suits larger pipe reinforcement (up to 8" diameter) for better impact protection. Bollard surfaces are protected by a durable powder coating, available in 6 standard colors, to prevent wear and corrosion. Use as fixed, stand-alone bollards or cover impact-resistant security posts.

Specifications:

Height: 53 3/4"
Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
  8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

See Reliance Foundry's standard color options at:
www.reliance-foundry.com/bollard/colors-bollards

Installation Options:

○ Fixed - Anchor Casting in New Concrete
        (see sheet 2 of 9)
○ Fixed - Concrete Insert Anchor in Existing Concrete
        (see sheet 3 of 9)
○ Fixed - Adhesive Anchor in Existing Concrete
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        (see sheet 5 of 9)
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        (see sheet 6 of 9)
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        (see sheet 7 of 9)
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        (see sheet 8 of 9)
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        (see sheet 9 of 9)

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Care and Maintenance:

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Notes:
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PARTS LIST

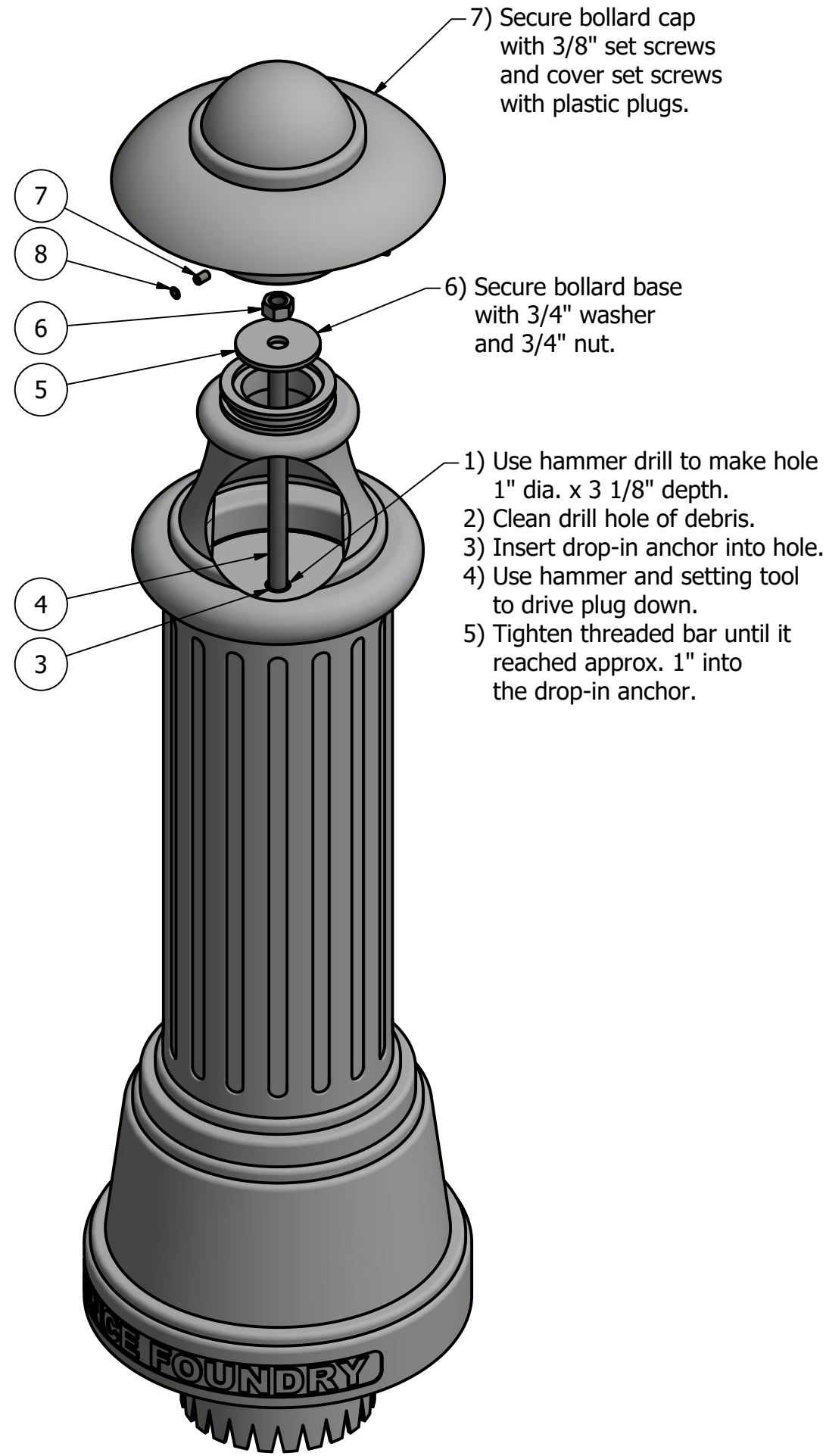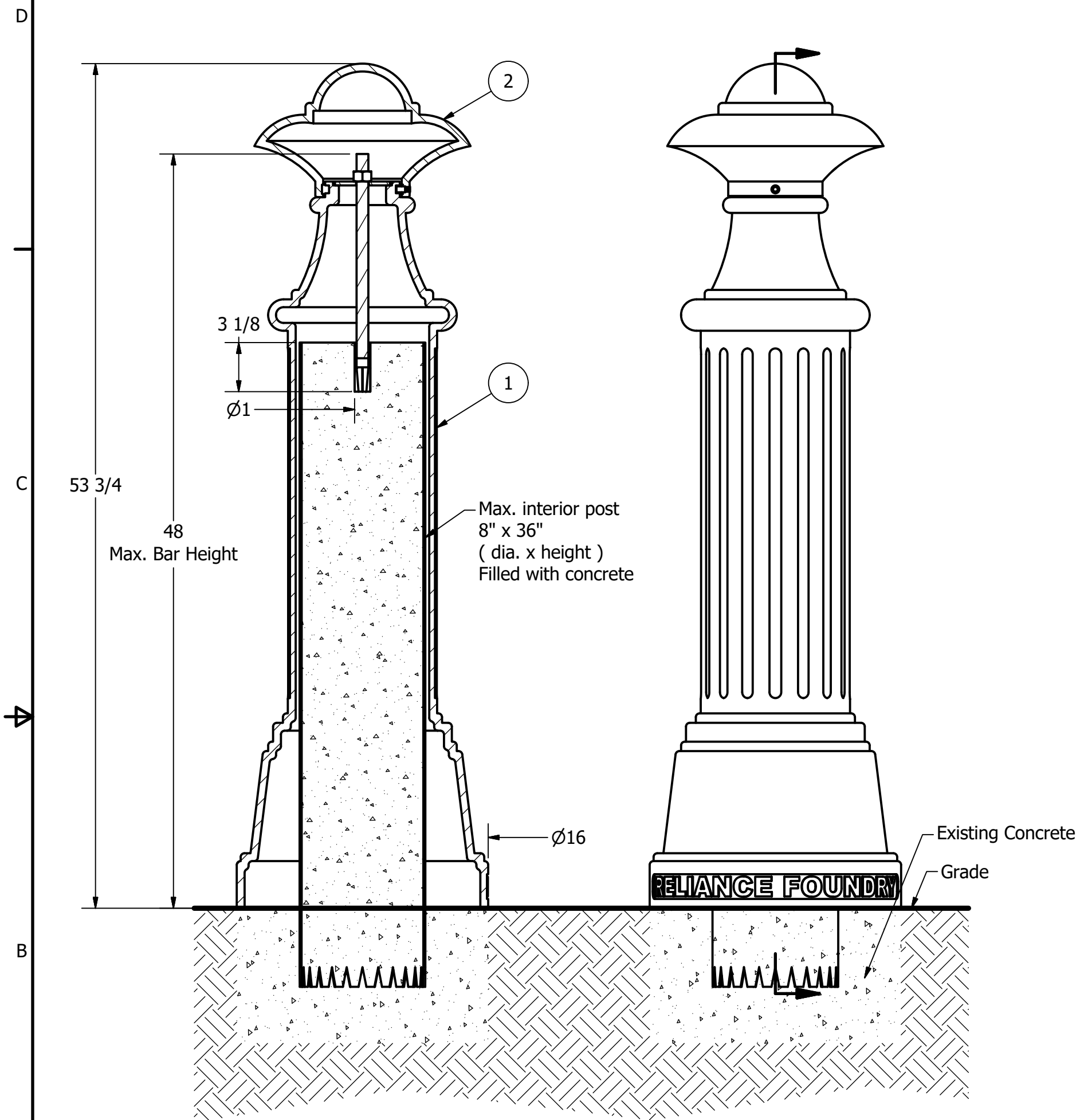| ITEM	QTY	PART NUMBER	DESCRIPTION	MATERIAL	WEIGHT
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2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	Adhesive Anchor	AC100+ Gold Adhesive Anchoring System	Vinylester Adhesive Mortar	5/8 lbs
4	1	R7500BAR 1"	R7500 Threaded Bar 1" Custom Order Length	Steel Plated	TBD
5	1	Washer 1" OD 3 1/2"	Washer 1" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
6	1	Hex Nut 1"	Hex Nut 1" - requires 1 1/2" wrench	Steel Plated	1/4 lbs
7	3	Hexagon Socket Set Screw 3/8" x 5/8"	Hexagon Socket Set Screw 3/8" x 5/8" - requires 3/16" hex key	Stainless Steel	
8	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

TITLE

Bollard R-7587

SIZE		DWG NO		REV
C		R7587		C4

NOT TO SCALE

SHEET 8 OF 9

Bollard R-7587

7) Secure bollard cap with 3/8" set screws and cover set screws with plastic plugs.

6) Secure bollard base with 3/4" washer and 3/4" nut.

3 1/8

Ø1

53 3/4

48 Max. Bar Height

Max. interior post 8" x 36" (dia. x height) Filled with concrete

Ø16

Existing Concrete

Grade

1) Use hammer drill to make hole 1" dia. x 3 1/8" depth.
2) Clean drill hole of debris.
3) Insert drop-in anchor into hole.
4) Use hammer and setting tool to drive plug down.
5) Tighten threaded bar until it reached approx. 1" into the drop-in anchor.

General Description:

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Specifications:

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Base Diameter: 16"
Weight: 210 lbs (Bollard Only)
Material: Ductile Iron
Max. Interior Security Post Size:
    8" x 36" (Diameter x Height)

Finish Options:

⊙ Polyester Powdercoated

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Installation Options:

○ Fixed - Anchor Casting in New Concrete
        (see sheet 2 of 9)
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See Reliance Foundry's maintenance guide at:
www.reliance-foundry.com/bollard/maintenance-bollards

Tools needed:
1) Measuring tape
2) 1 1/8" wrench
3) 3/16" hex key
4) Hammer drill
5) 1" Masonry drill bit
6) Hammer
7) Drop-in concrete insert setting tool

Notes:
1) Bollard post is provided as shown. Concrete, foundation and/or installation ordered separately or provided by others.
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			PARTS LIST		
1	1	R7587B	R7587 Base	Ductile Iron Powder Coated	185 lbs
2	1	R7587C	R7587 Cap	Ductile Iron Powder Coated	25 lbs
3	1	Drop-in Concrete Insert 3/4"	Drop-in Concrete Insert 3/4" - requires 1" x 3 1/8" hole (dia. x depth)	Steel Plated	1/2 lbs
4	1	R7500BAR 3/4"	R7500 Threaded Bar 3/4" Custom Order Length	Steel Plated	TBD
5	1	Washer 3/4" OD 3 1/2"	Washer 3/4" OD 3 1/2" Thick 1/4"	Steel Plated	5/8 lbs
6	1	Hex Nut 3/4"	Hex Nut 3/4" - requires 1 1/8" wrench	Steel Plated	1/8 lbs
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8	3	Polyethylene Plug 3/8"	Polyethylene Plug 3/8"	LDPE Black	

TITLE

Bollard R-7587

SIZE	DWG NO	REV
C	R7585	C4

NOT TO SCALE

SHEET 9 OF 9