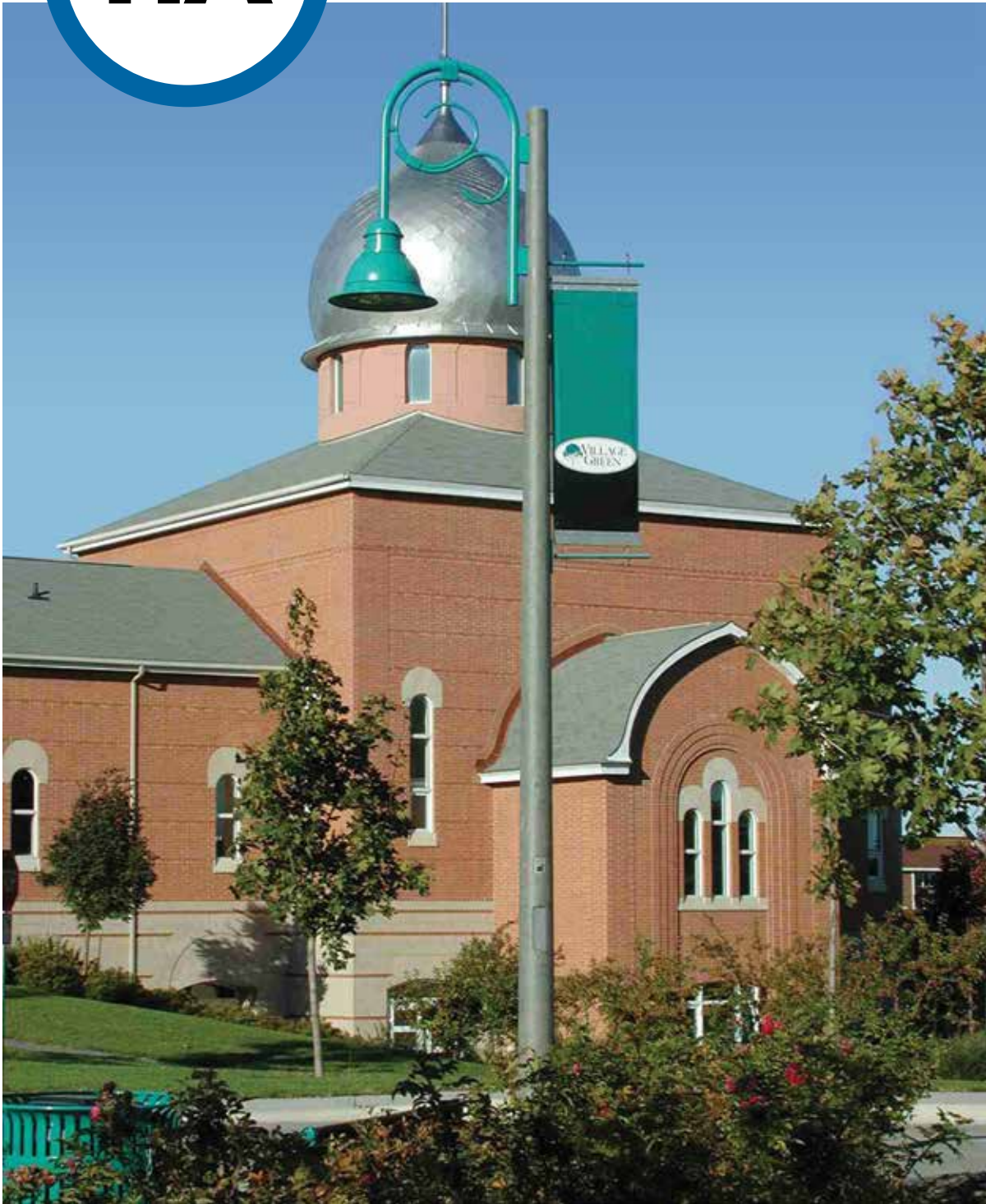




UTILITY STRUCTURES INC.
CONCRETE POLES

HA



THE HAMPTON SERIES

OF CONCRETE POLES



UTILITY STRUCTURES INC.

THE HAMPTON SERIES

PHYSICAL DETAILS

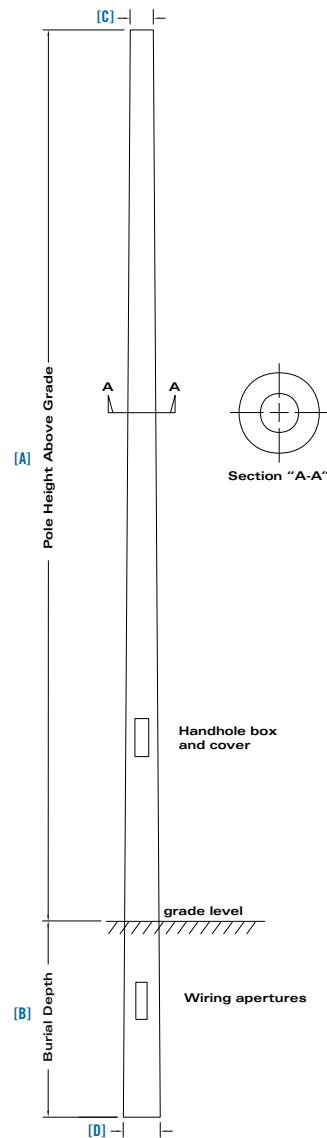
- Round tapered symmetrical cross section.
- Standard taper of 15mm/metre (0.18"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 10 feet to 70 feet above grade.
- Will accept a variety of luminaire mounting styles.

HAMPTON SPECIFYING CHART

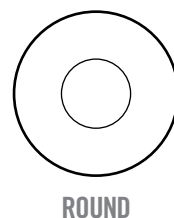
CLASS OF POLE	SPECIFYING POLE CODE (Style-Height-Class)	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
AL	HA-150-AL	11	4	4 3/4	7 7/16	5400	450
	HA-175-AL	13 1/2	4	4 3/4	7 7/8	6900	575
	HA-200-AL	15	5	4 3/4	8 3/8	7800	700
	HA-225-AL	17 1/2	5	4 3/4	8 13/16	9300	820
	HA-250-AL	20	5	4 3/4	9 1/4	10800	940
A	HA-150-A	11	4	4 3/4	7 7/16	5400	450
	HA-175-A	13 1/2	4	4 3/4	7 7/8	6900	575
	HA-200-A	15	5	4 3/4	8 3/8	7800	700
	HA-225-A	17 1/2	5	4 3/4	8 13/16	9300	820
	HA-250-A	20	5	4 3/4	9 1/4	10800	940
	HA-275-A	22 1/2	5	4 3/4	9 11/16	12300	1095
	HA-300-A	25	5	4 3/4	10 1/8	13800	1250
	HA-325-A	27 1/2	5	4 3/4	10 5/8	15300	1410
	HA-350-A	30	5	4 3/4	11 1/16	16800	1575
B	HA-250-B	20	5	4 3/4	9 1/4	16200	940
	HA-275-B	22 1/2	5	4 3/4	9 11/16	18450	1095
	HA-300-B	25	5	4 3/4	10 1/8	20700	1250
	HA-325-B	27 1/2	5	4 3/4	10 5/8	22950	1410
	HA-350-B	30	5	4 3/4	11 1/16	25200	1575
	HA-375-B	32 1/2	5	4 3/4	11 1/2	27450	1770
	HA-400-B	34	6	4 3/4	11 15/16	28800	1965
	HA-425-B	36 1/2	6	4 3/4	12 3/8	31050	2130
C	HA-450-B	39	6	4 3/4	12 7/8	33300	2300
	HA-300-C	25	5	6	11 3/8	27600	1650
	HA-325-C	27 1/2	5	6	11 7/8	30600	1875
	HA-350-C	30	5	6	12 5/16	33600	2100
	HA-375-C	32 1/2	5	6	12 3/4	36600	2325
D	HA-400-C	34	6	6	13 3/16	38400	2550
	HA-400-D	34	6	6	13 3/16	48000	2550
	HA-425-D	36 1/2	6	6	13 5/8	51750	2775
	HA-450-D	39	6	6	14 1/8	55500	3000
	HA-475-D	41	6 1/2	6	14 9/16	58500	3225
	HA-500-D	43	7	6	15	61500	3450

NOTES: The above chart outlines standard typical heights and classes. Other sizes are available upon request. The Hampton series is available from 10 to 85 feet overall, in 6" increments. It's also available from class "AL" to class "O". Pole height above grade based on recommended burial depth for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.

TYPICAL POLE DETAIL



CROSS SECTION



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THE HAMPTON SERIES

Select SURFACE FINISH

The Hampton Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish (standard)
N/A	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

The Hampton Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



Plain Grey (PG) mold finish (1) is standard for all our poles.

CODE	DESCRIPTION
PG	Plain Grey (Standard)

EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Hampton Series is available with 9 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
40	Concrete Tenon/Post Top
50	Top Mount Round
60	Scroll Arm
70	Clamp On
80	Camera Mount
90	Custom Mount

Select OPTIONS & ACCESSORIES

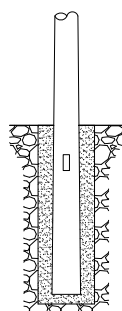
The Hampton Series has 18 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	H	Flag Holder
A1	Aluminum Banner Arm with Scroll	L	Ladder Rest
A2	Aluminum Banner Arm with Flower Pot Holder	L1	Ladder Rest with Scroll
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	P	Interior Corrosion Protection
A4	Aluminum Breakaway Banner Arm	R	GFI Receptacle
B	Base Plate - Flush with Bolts Exposed	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	W	Wire Entry
D2	Double Handhole Box with Inline Breaker	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

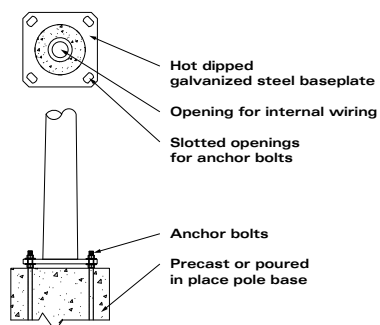
Standard and Cost Effective



1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



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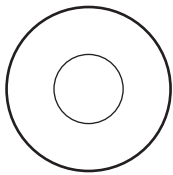


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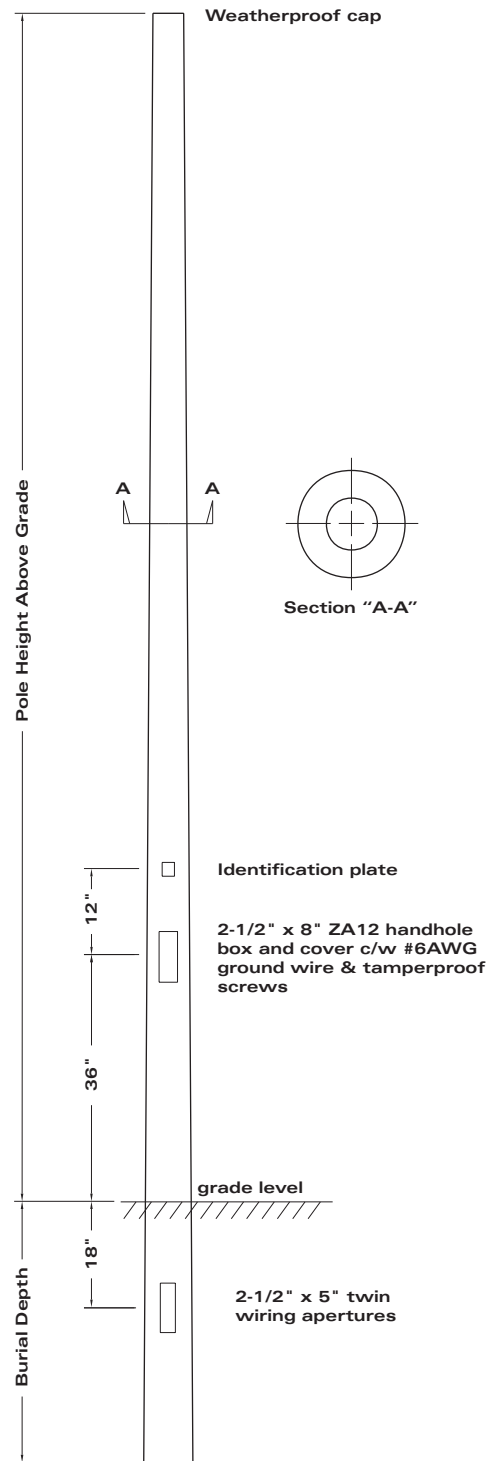
THE HAMPTON SERIES

TYPICAL POLE DETAIL

CROSS SECTION



ROUND



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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OF CONCRETE POLES



UTILITY STRUCTURES INC.

THE ROCKCLIFFE SERIES

PHYSICAL DETAILS

- Round tapered symmetrical cross section with flared base.
- Standard taper of 13mm/metre (0.155"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 14 feet to 23 feet above grade.
- Will accept a variety of luminaire mounting styles.

ROCKCLIFFE SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	RO-190-A	14	5	5 3/8	10	7200	1200
	RO-200-A	15	5	5 1/4	10	7800	1270
	RO-210-A	16	5	5 3/16	10	8400	1335
	RO-220-A	17	5	4 15/16	10	9000	1395
	RO-230-A	18	5	4 3/4	10	9600	1450
	RO-240-A	19	5	4 5/8	10	10200	1500
	RO-250-A	20	5	4 1/2	10	10800	1545
	RO-260-A	21	5	4 5/16	10	11400	1585
	RO-270-A	22	5	4 1/8	10	12000	1620
	RO-280-A	23	5	4	10	12600	1650

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.

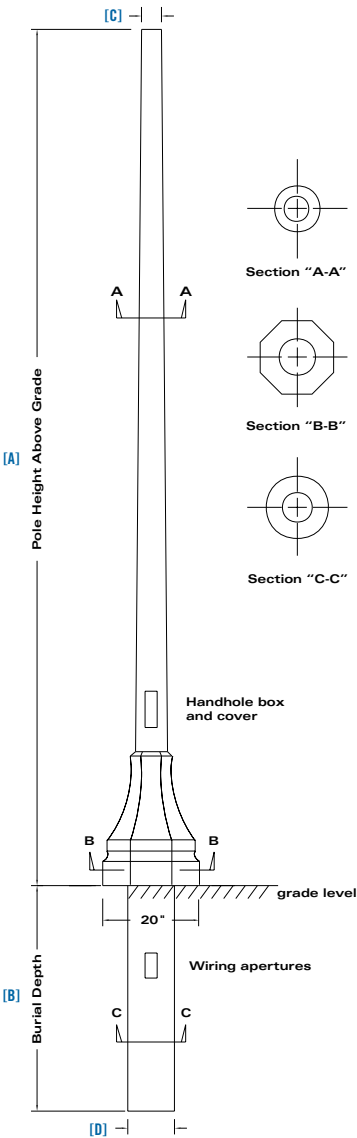


The Rockcliffe Series

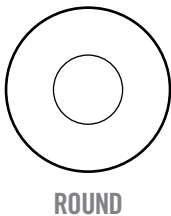


The Rockcliffe Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



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THE ROCKCLIFFE SERIES

Select SURFACE FINISH

The Rockcliffe Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
N/A	Polished finish
3	Etched finish
4	Exposed finish

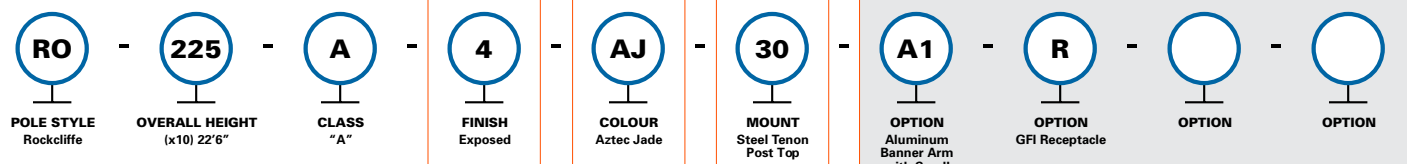
Select COLOUR

The Rockcliffe Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Rockcliffe Series is available with 8 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
40	Concrete Tenon/Post Top
50	Top Mount Round
60	Scroll Arm
70	Clamp On
90	Custom Mount

Select OPTIONS & ACCESSORIES

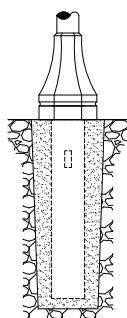
The Rockcliffe Series has 19 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
B1	Base Plate - Hidden Bolt Pockets	S	Base Shroud - Square
B2	Base Plate - Below Grade Stub	S1	Base Shroud - Round
C	Custom Accessory	X	Exterior Silane Sealer
D	Double Handhole Box		

FOOTING DETAILS

DIRECT BURIAL

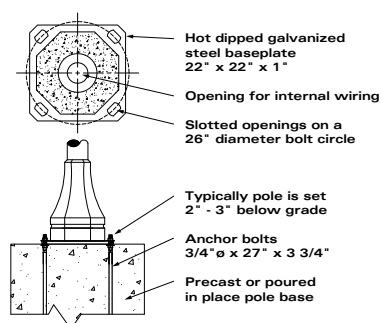
Standard and Cost Effective



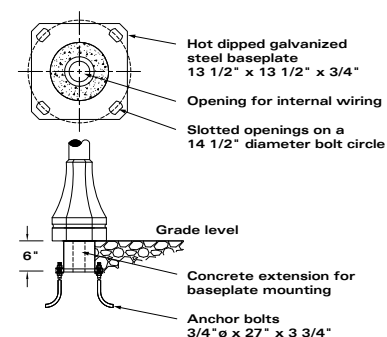
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION **B** Base Plate - Flush with Bolts Exposed



OPTION **B2** Base Plate - Below Grade Stub



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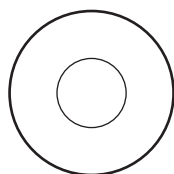
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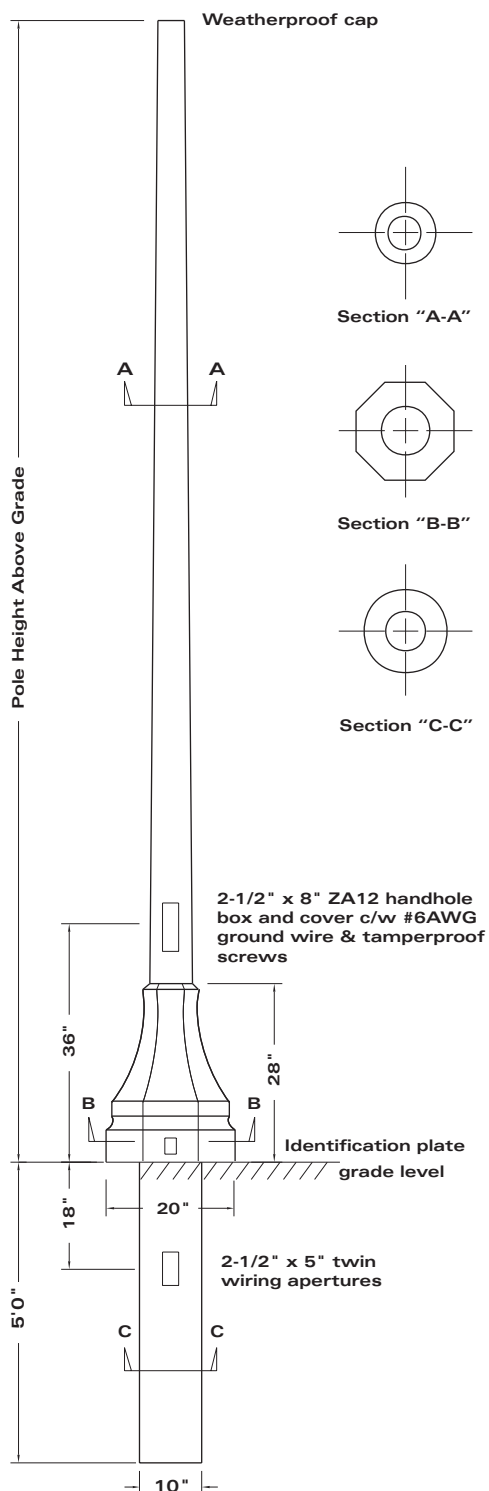
THE ROCKCLIFFE SERIES

TYPICAL POLE DETAIL

CROSS SECTION



ROUND



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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THE NEWPORT SERIES

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THE NEWPORT SERIES

PHYSICAL DETAILS

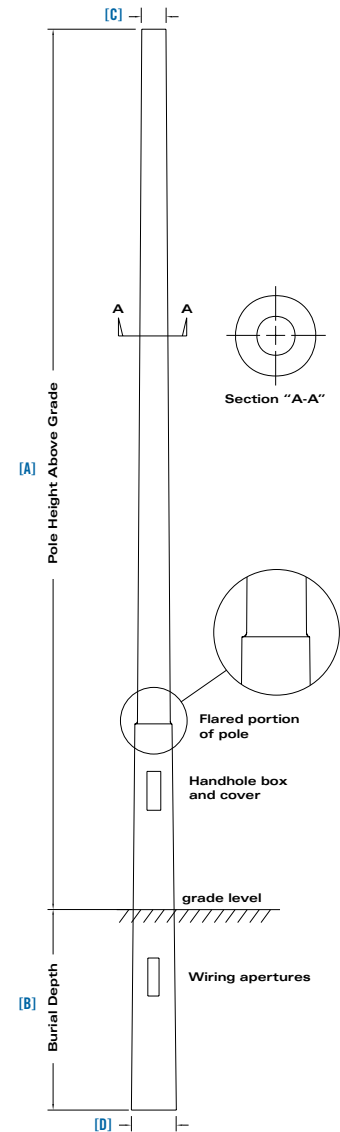
- Round tapered symmetrical cross section.
- Flared lower portion 2" larger in diameter (than upper section), for additional concrete cover of reinforcing steel.
- Standard taper of 15mm/metre (0.18"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 15 feet to 43 feet above grade.
- Will accept a variety of luminaire mounting styles.

NEWPORT SPECIFYING CHART

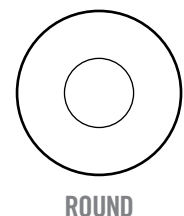
CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	NE-200-A	15	5	6 1/2	12	4800	1100
	NE-225-A	17 1/2	5	6	12	6300	1160
	NE-250-A	20	5	5 1/2	12	7800	1260
	NE-275-A	22 1/2	5	5	12	9300	1300
	NE-300-A	25	5	6 1/2	13 1/2	10800	1840
	NE-325-A	27 1/2	5	6	13 1/2	12300	2000
	NE-350-A	30	5	5 1/2	13 1/2	13800	2060
B	NE-250-B	20	5	5 1/2	12	16200	1260
	NE-275-B	22 1/2	5	5	12	18450	1300
	NE-300-B	25	5	6 1/2	13 1/2	20700	1840
	NE-325-B	27 1/2	5	6	13 1/2	22950	2000
	NE-350-B	30	5	5 1/2	13 1/2	25200	2060
	NE-375-B	32 1/2	5	5	13 1/2	27450	2300
	NE-400-B	34	6	6 1/4	15 1/2	28800	2690
	NE-425-B	36 1/2	6	5 3/4	15 1/2	31050	2760
C	NE-300-C	25	5	6 1/2	13 1/2	27600	1840
	NE-325-C	27 1/2	5	6	13 1/2	30600	2000
	NE-350-C	30	5	7 1/4	15 1/2	33600	2540
	NE-375-C	32 1/2	5	6 3/4	15 1/2	36600	2620
	NE-400-C	34	6	6 1/4	15 1/2	38400	2690
	NE-425-C	36 1/2	6	5 3/4	15 1/2	41400	2760
	NE-450-C	39	6	7 1/2	17 1/4	44400	3800
	NE-475-C	41 1/2	6	7	17 1/4	46800	3950
D	NE-500-C	43	7	6 1/2	17 1/4	49200	4100
	NE-400-D	34	6	6 1/4	15 1/2	48000	2690
	NE-425-D	36 1/2	6	8	17 1/4	51750	3760
	NE-450-D	39	6	7 1/2	17 1/4	55500	3800
	NE-475-D	41 1/2	6	7	17 1/4	58500	3900
D	NE-500-D	43	7	8 1/4	19 1/16	61500	4600

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on recommended burial depth for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.

TYPICAL POLE DETAIL



CROSS SECTION



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THE NEWPORT SERIES

Select SURFACE FINISH

The Newport Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish (standard)
N/A	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

The Newport Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

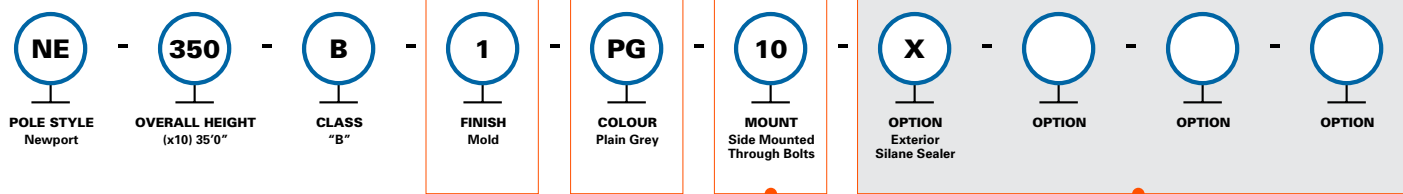
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



Plain Grey (PG) mold finish (1) is standard for all our poles.

CODE	DESCRIPTION
PG	Plain Grey (Standard)

EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Newport Series is available with 9 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
40	Concrete Tenon/Post Top
50	Top Mount Round
60	Scroll Arm
70	Clamp On
80	Camera Mount
90	Custom Mount

Select OPTIONS & ACCESSORIES

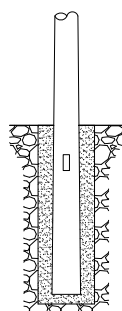
The Newport Series has 18 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	H	Flag Holder
A1	Aluminum Banner Arm with Scroll	L	Ladder Rest
A2	Aluminum Banner Arm with Flower Pot Holder	L1	Ladder Rest with Scroll
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	P	Interior Corrosion Protection
A4	Aluminum Breakaway Banner Arm	R	GFI Receptacle
B	Base Plate - Flush with Bolts Exposed	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	W	Wire Entry
D2	Double Handhole Box with Inline Breaker	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

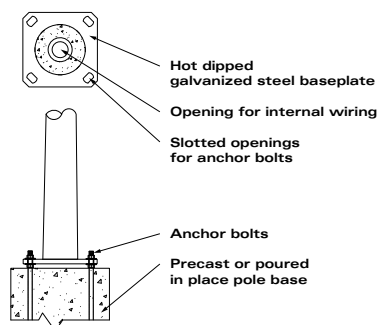
Standard and Cost Effective



1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION **B** Base Plate - Flush with Bolts Exposed



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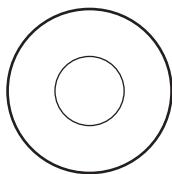
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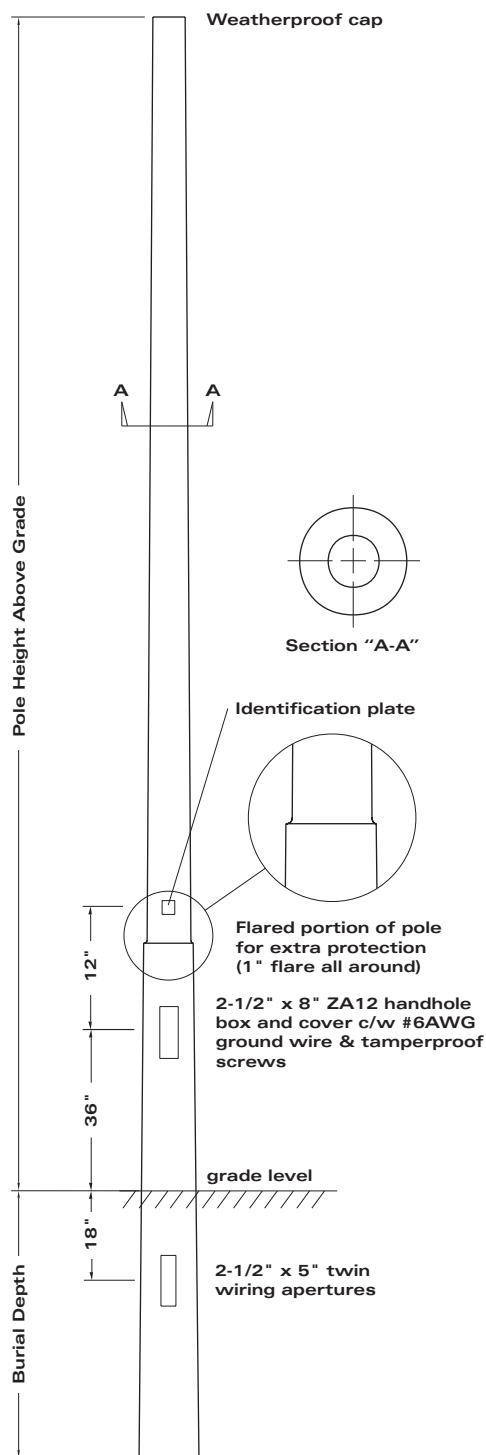
THE NEWPORT SERIES

TYPICAL POLE DETAIL

CROSS SECTION



ROUND



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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ED



THE EDINBURGH SERIES

OF CONCRETE POLES



UTILITY STRUCTURES INC.



THE EDINBURGH SERIES

PHYSICAL DETAILS

- Round tapered symmetrical cross section with a decorative base.
- Standard taper of 10.4mm/metre (0.125"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 10 feet to 22 feet above grade.
- Will accept a variety of luminaire mounting styles.

EDINBURGH SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	ED-150-A	10	5	6 1/4	10	4800	830
	ED-160-A	11	5	6 1/8	10	5400	880
	ED-170-A	12	5	6 1/16	10	6000	930
	ED-180-A	13	5	5 1/16	10	6600	995
	ED-190-A	14	5	5 13/16	10	7200	1050
	ED-200-A	15	5	5 3/4	10	7800	1100
	ED-210-A	16	5	5 5/8	10	8400	1150
	ED-220-A	17	5	5 1/2	10	9000	1200
	ED-230-A	18	5	5 7/16	10	9600	1250
	ED-240-A	19	5	5 5/16	10	10200	1300
	ED-250-A	20	5	5 3/16	10	10800	1350
	ED-260-A	21	5	5 1/8	10	11400	1400
	ED-270-A	22	5	5	10	12000	1450

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.

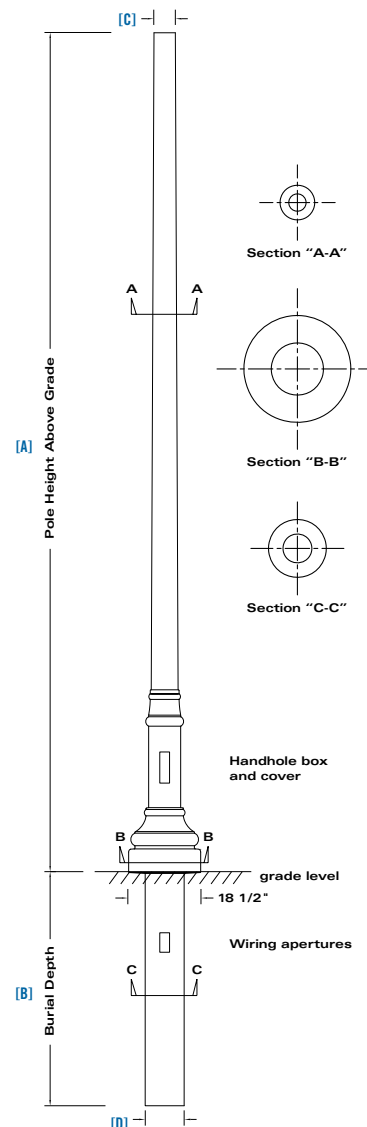


The Edinburgh Series

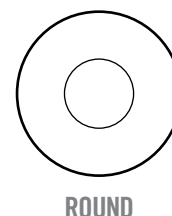


The Edinburgh Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



ROUND



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THE EDINBURGH SERIES

Select SURFACE FINISH

The Edinburgh Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
N/A	Polished finish
3	Etched finish
4	Exposed finish

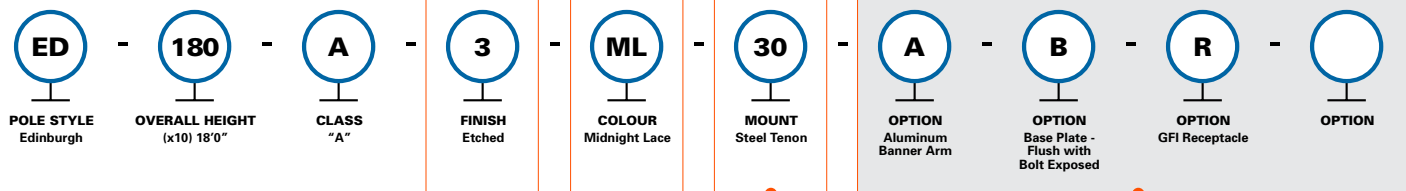
Select COLOUR

The Edinburgh Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Edinburgh Series is available with 8 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
40	Concrete Tenon/Post Top
50	Top Mount Round
60	Scroll Arm
70	Clamp On
90	Custom Mount

Select OPTIONS & ACCESSORIES

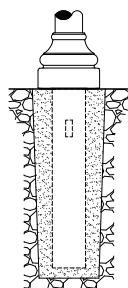
The Edinburgh Series has 19 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
B1	Base Plate - Hidden Bolt Pockets	S	Base Shroud - Square
B2	Base Plate - Below Grade Stub	S1	Base Shroud - Round
C	Custom Accessory	X	Exterior Silane Sealer
D	Double Handhole Box		

FOOTING DETAILS

DIRECT BURIAL

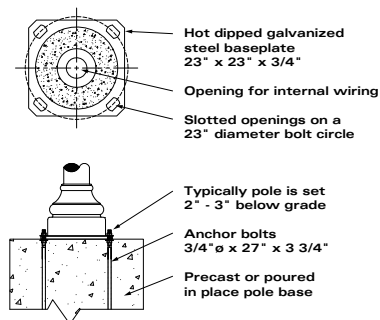
Standard and Cost Effective



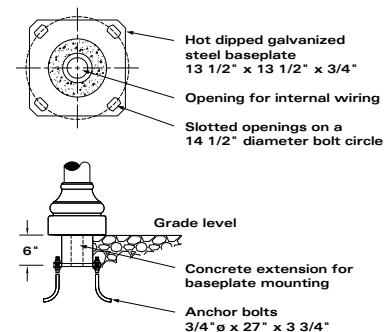
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



OPTION B2 Base Plate - Below Grade Stub



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THE EDINBURGH SERIES

OF CONCRETE POLES



UTILITY STRUCTURES INC.

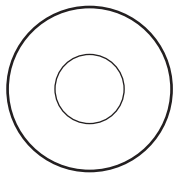
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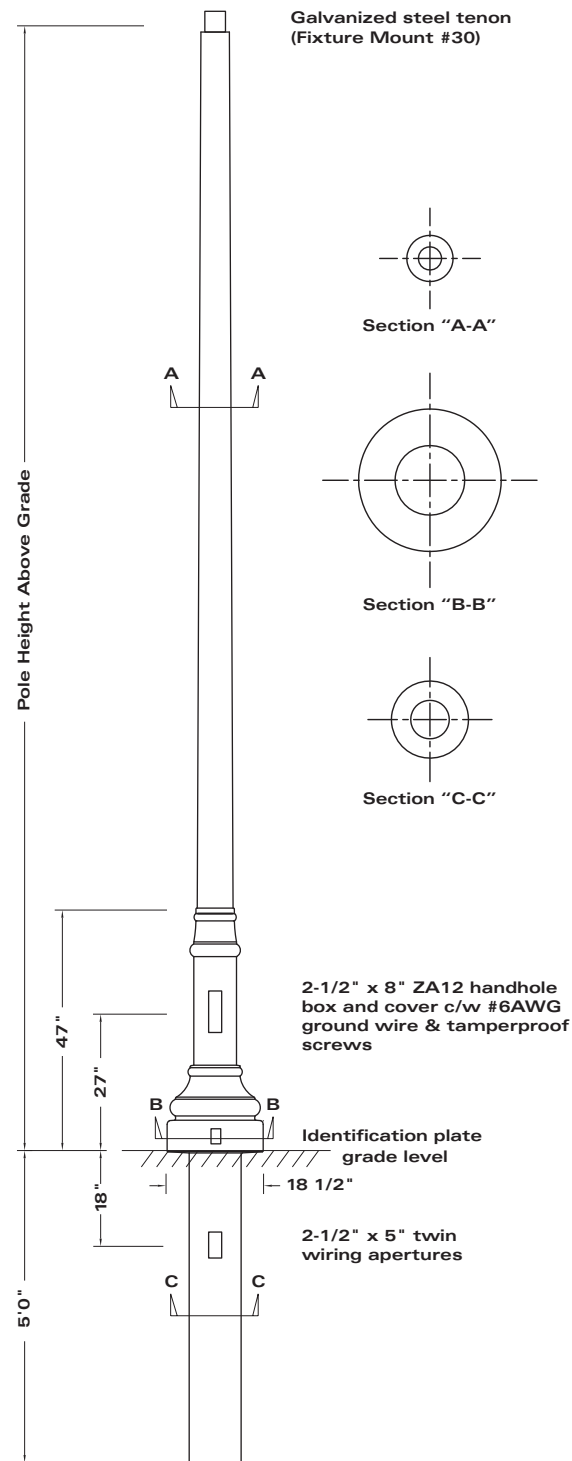
THE EDINBURGH SERIES

TYPICAL POLE DETAIL











CROSS SECTION



ROUND



PLEASE FILL IN CODE

	-		-		-		-		-		-		-		-		-	
POLE STYLE		OVERALL HEIGHT		CLASS		FINISH		COLOUR		FIXTURE MOUNT		OPTION		OPTION		OPTION		OPTION

Select options as required



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MA



THE MADISON SERIES

OF CONCRETE POLES



UTILITY STRUCTURES INC.



THE MADISON SERIES

PHYSICAL DETAILS

- Octagonal tapered symmetrical cross section.
- Standard taper of 15mm/metre (0.18"/foot).
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 10 feet to 50 feet above grade.
- Will accept a variety of luminaire mounting styles.

MADISON SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE (Style-Height-Class)	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
AL	MA-150-AL	11	4	4 3/4	7 7/16	5400	475
	MA-175-AL	13 1/2	4	4 3/4	7 7/8	6900	600
	MA-200-AL	15	5	4 3/4	8 3/8	7800	735
	MA-225-AL	17 1/2	5	4 3/4	8 13/16	9300	860
	MA-250-AL	20	5	4 3/4	9 1/4	10800	990

A	MA-150-A	11	4	4 3/4	7 7/16	5400	490
	MA-175-A	13 1/2	4	4 3/4	7 7/8	6900	615
	MA-200-A	15	5	4 3/4	8 3/8	7800	750
	MA-225-A	17 1/2	5	4 3/4	8 13/16	9300	875
	MA-250-A	20	5	4 3/4	9 1/4	10800	1005
	MA-275-A	22 1/2	5	4 3/4	9 7/8	12300	1165
	MA-300-A	25	5	4 3/4	10 1/8	13800	1325
	MA-325-A	27 1/2	5	4 3/4	10 5/8	15300	1495
	MA-350-A	30	5	4 3/4	11 1/16	16800	1680

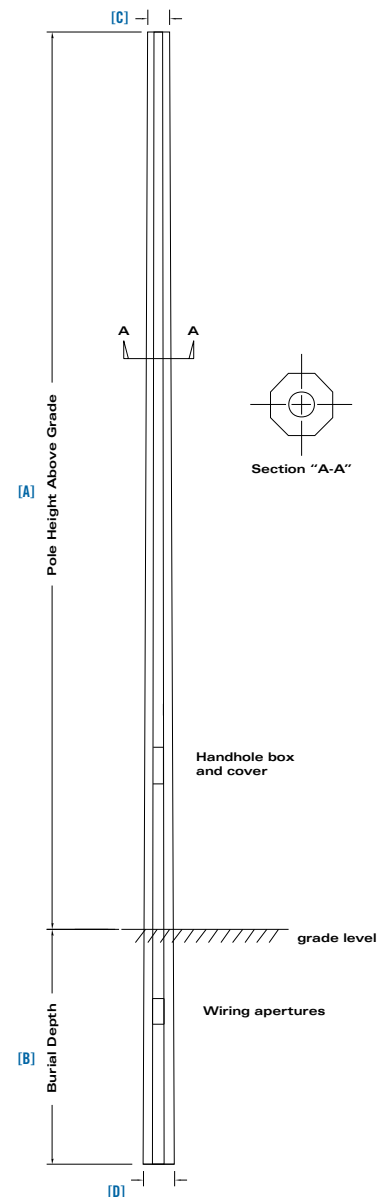
B	MA-250-B	20	5	5	9 1/2	16200	1040
	MA-275-B	22 1/2	5	5	10	18450	1210
	MA-300-B	25	5	5	10 3/8	20700	1375
	MA-325-B	27 1/2	5	5	10 7/8	22950	1554
	MA-350-B	30	5	5	11 3/8	25200	1740
	MA-375-B	32 1/2	5	5	11 3/4	27450	1950
	MA-400-B	34	6	5	12 1/4	28800	2165
	MA-425-B	36 1/2	6	5	12 5/8	31050	2370
	MA-450-B	39	6	5	13 1/8	33300	2577

C	MA-300-C	25	5	6	11 3/8	27600	1730
	MA-325-C	27 1/2	5	6	11 7/8	30600	1970
	MA-350-C	30	5	6	12 5/16	33600	2205
	MA-375-C	32 1/2	5	6	12 3/4	36600	2440
	MA-400-C	34	6	6	13 3/16	38400	2675

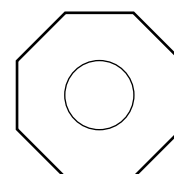
D	MA-400-D	34	6	6	13 3/16	48000	2675
	MA-425-D	36 1/2	6	6	13 5/8	51750	2915
	MA-450-D	39	6	6	14 1/8	55500	3150
	MA-475-D	40 1/2	7	6	14 1/2	57750	3385
	MA-500-D	43	7	6	15	61500	3620

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. The Madison series is available from 10 to 60 feet overall, in 6" increments. It's also available from class "AL" to class "E". Pole height above grade based on recommended burial depth for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. Tip and butt dimensions are measured from flat to flat.

TYPICAL POLE DETAIL



CROSS SECTION



OCTAGONAL



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THE MADISON SERIES

Select SURFACE FINISH

The Madison Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
2	Polished finish
3	Etched finish
4	Exposed finish

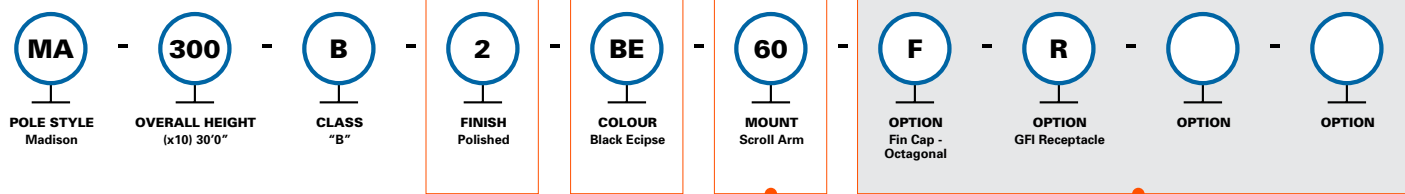
Select COLOUR

The Madison Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Madison Series is available with 7 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
55	Top Mount Octagonal
60	Scroll Arm
80	Camera Mount
90	Custom Mount

Select OPTIONS & ACCESSORIES

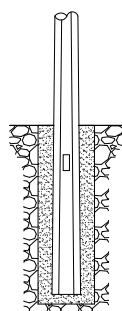
The Madison Series has 18 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	F	Fin Cap - Octagonal
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
C	Custom Accessory	S	Base Shroud - Square
D	Double Handhole Box	S1	Base Shroud - Round
D2	Double Handhole Box with Inline Breaker	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

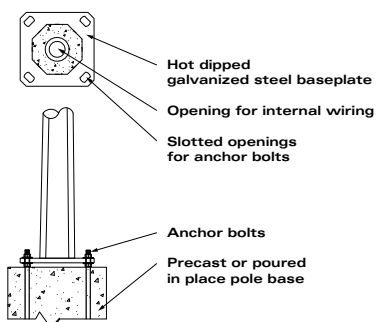
Standard and Cost Effective



1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



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THE MADISON SERIES

OF CONCRETE POLES



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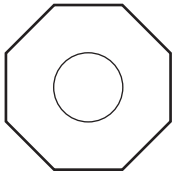
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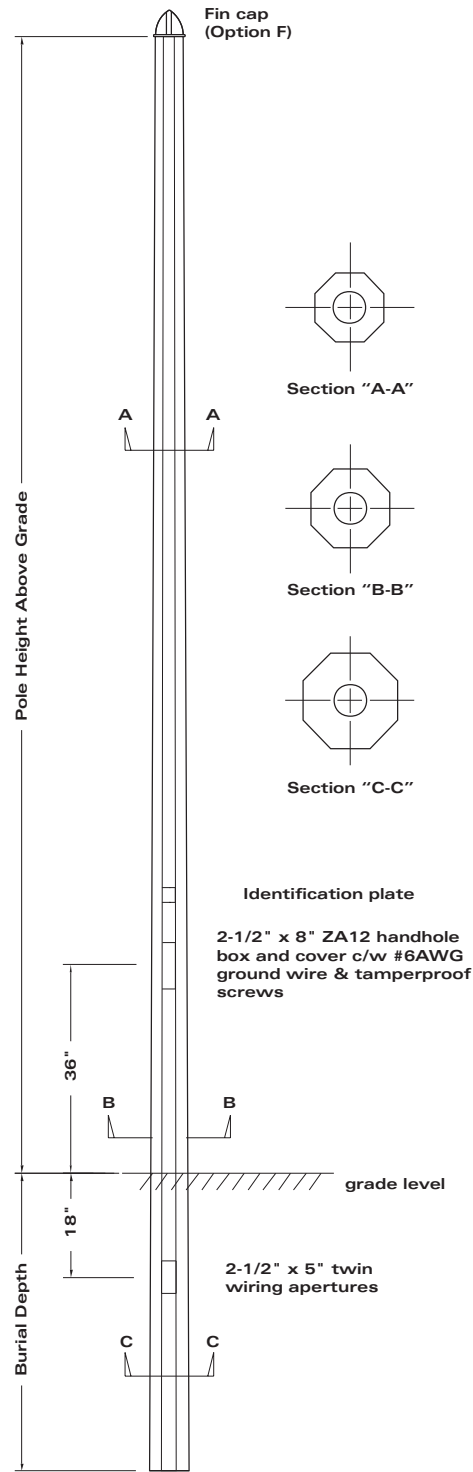
THE MADISON SERIES

TYPICAL POLE DETAIL

CROSS SECTION



OCTAGONAL



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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CA



THE CAMBRIDGE SERIES

OF CONCRETE POLES



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THE CAMBRIDGE SERIES

PHYSICAL DETAILS

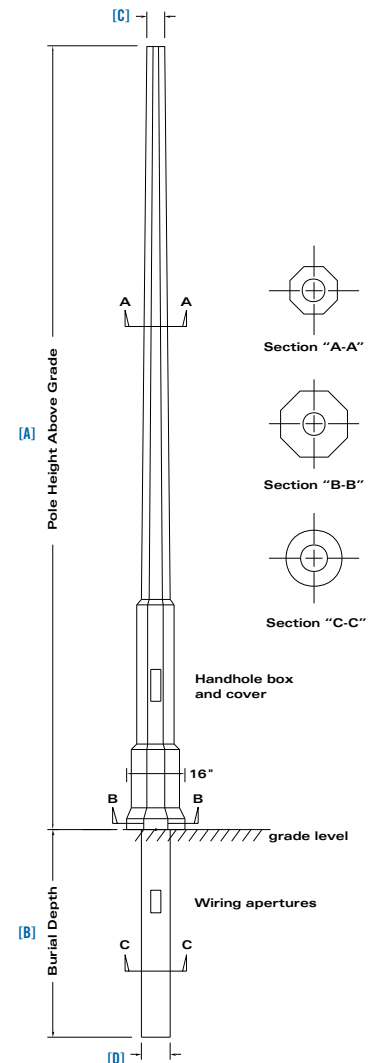
- Three tiered octagonal symmetrical cross section.
- Standard taper of 15mm/metre (0.18"/foot).
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 17 feet to 27 feet above grade.
- Will accept a variety of luminaire mounting styles.

CAMBRIDGE SPECIFYING CHART

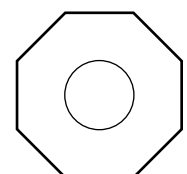
CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	CA-220-A	17	5	6	10	9000	1100
	CA-230-A	18	5	5 13/16	10	9600	1145
	CA-240-A	19	5	5 5/8	10	10200	1195
	CA-250-A	20	5	5 7/16	10	10800	1250
	CA-260-A	21	5	5 1/4	10	11400	1310
	CA-270-A	22	5	5 1/16	10	12000	1375
	CA-280-A	23	5	4 7/8	10	12600	1445
	CA-290-A	24	5	4 11/16	10	13200	1520
	CA-300-A	25	5	4 1/2	10	13800	1600
	CA-310-A	26	5	4 5/16	10	14400	1650
	CA-320-A	27	5	4 1/8	10	15000	1685

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. Tip dimensions are measured from flat to flat.

TYPICAL POLE DETAIL



CROSS SECTION



OCTAGONAL



The Cambridge Series



The Cambridge Series base detail



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THE CAMBRIDGE SERIES

Select SURFACE FINISH

The Cambridge Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
2	Polished finish
3	Etched finish
4	Exposed finish

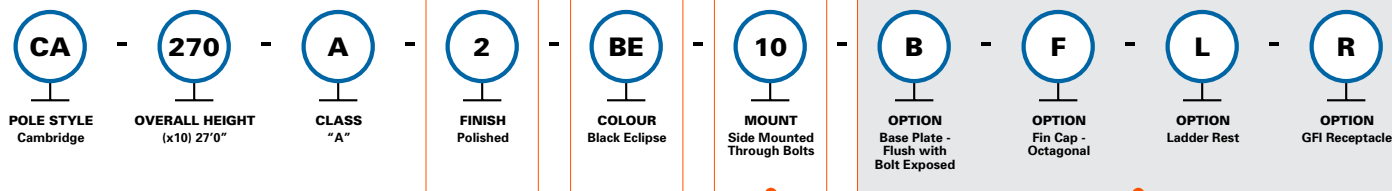
Select COLOUR

The Cambridge Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Cambridge Series is available with 6 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
55	Top Mount Octagonal
60	Scroll Arm
90	Custom Mount

Select OPTIONS & ACCESSORIES

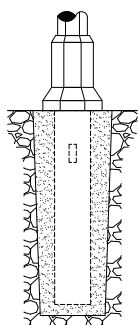
The Cambridge Series has 20 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	F	Fin Cap - Octagonal
A2	Aluminum Banner Arm with Flower Pot Holder	H	Flag Holder
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L	Ladder Rest
A4	Aluminum Breakaway Banner Arm	L1	Ladder Rest with Scroll
B	Base Plate - Flush with Bolts Exposed	P	Interior Corrosion Protection
B1	Base Plate - Hidden Bolt Pockets	R	GFI Receptacle
B2	Base Plate - Below Grade Stub	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

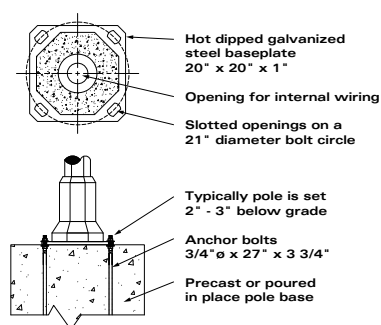
Standard and Cost Effective



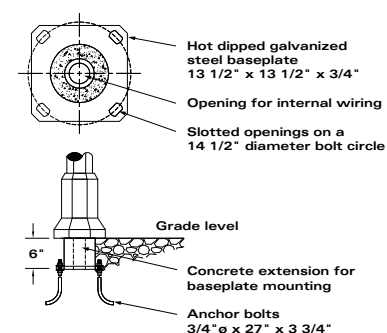
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



OPTION B2 Base Plate - Below Grade Stub



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THE CAMBRIDGE SERIES

OF CONCRETE POLES



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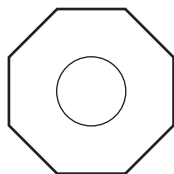
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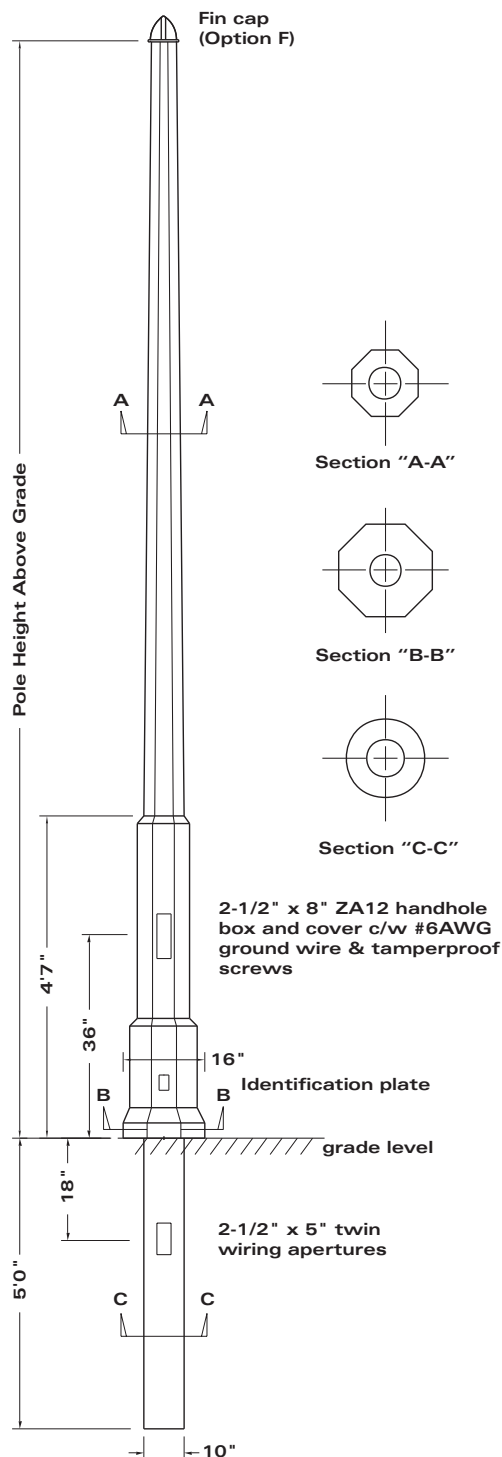
THE CAMBRIDGE SERIES

TYPICAL POLE DETAIL











CROSS SECTION



OCTAGONAL



PLEASE FILL IN CODE

	-		-		-		-		-		-		-		-		-	
POLE STYLE		OVERALL HEIGHT		CLASS		FINISH		COLOUR		FIXTURE MOUNT		OPTION		OPTION		OPTION		OPTION

Select options as required



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ST



THE STRATFORD SERIES

OF CONCRETE POLES



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THE STRATFORD SERIES

PHYSICAL DETAILS

- Three tiered octagonal symmetrical cross section.
- Smaller version of the Cambridge.
- Standard taper of 17mm/metre (0.206"/foot).
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 10 feet to 16 feet above grade.
- Will accept a variety of luminaire mounting styles.

STRATFORD SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	ST-150-A	10	5	5	8 1/4	4800	760
	ST-160-A	11	5	4 3/4	8 1/4	5400	780
	ST-170-A	12	5	4 1/2	8 1/4	6000	800
	ST-180-A	13	5	4 1/4	8 1/4	6600	820
	ST-190-A	14	5	4 1/8	8 1/4	7200	840
	ST-200-A	15	5	3 15/16	8 1/4	7800	860
	ST-210-A	16	5	3 3/4	8 1/4	8400	880

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.

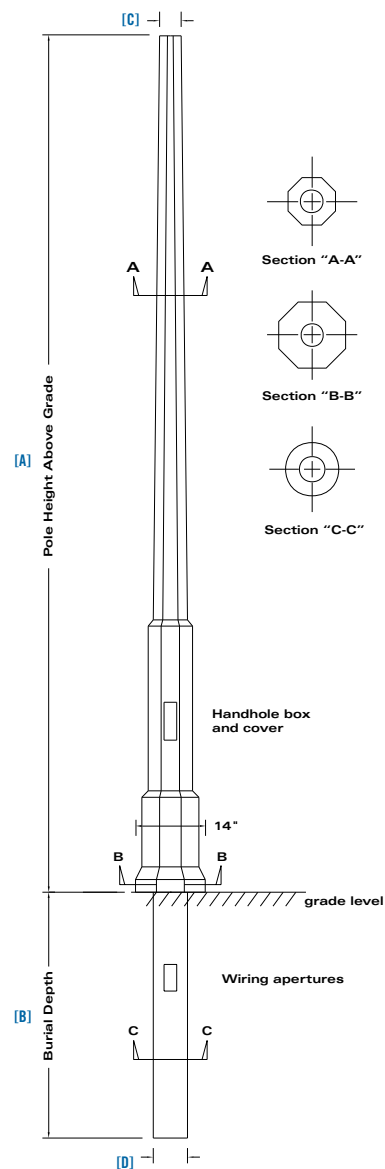


The Stratford Series

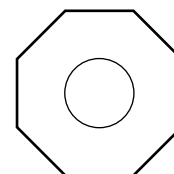


The Stratford Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



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THE STRATFORD SERIES

Select SURFACE FINISH

The Stratford Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
2	Polished finish
3	Etched finish
4	Exposed finish

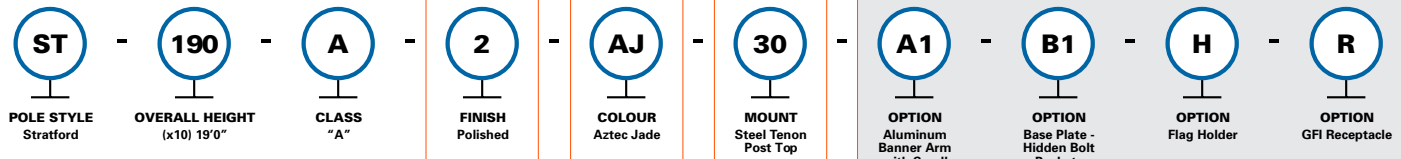
Select COLOUR

The Stratford Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Stratford Series is available with 6 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
55	Top Mount Octagonal
60	Scroll Arm
90	Custom Mount

Select OPTIONS & ACCESSORIES

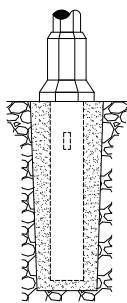
The Stratford Series has 20 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	F	Fin Cap - Octagonal
A2	Aluminum Banner Arm with Flower Pot Holder	H	Flag Holder
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L	Ladder Rest
A4	Aluminum Breakaway Banner Arm	L1	Ladder Rest with Scroll
B	Base Plate - Flush with Bolts Exposed	P	Interior Corrosion Protection
B1	Base Plate - Hidden Bolt Pockets	R	GFI Receptacle
B2	Base Plate - Below Grade Stub	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

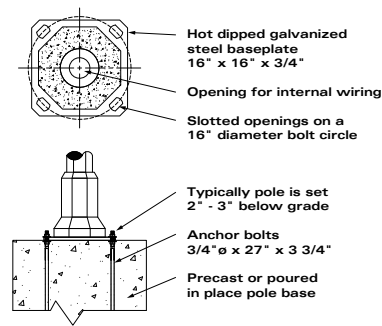
Standard and Cost Effective



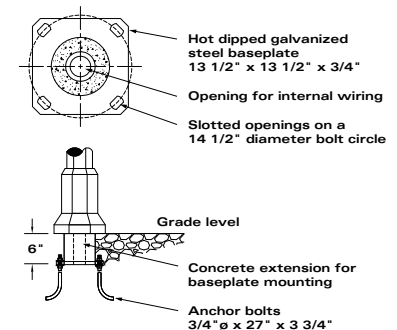
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



OPTION B2 Base Plate - Below Grade Stub



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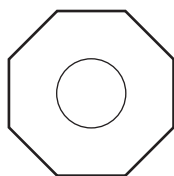
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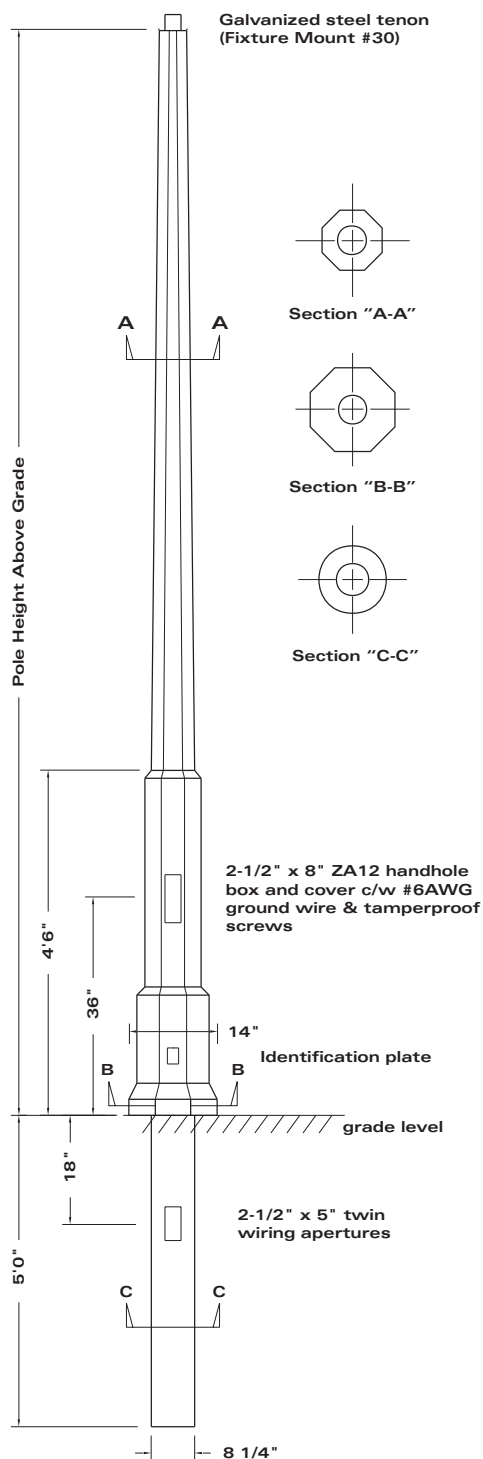
THE STRATFORD SERIES

TYPICAL POLE DETAIL

CROSS SECTION



OCTAGONAL



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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WE



THE WESTMOUNT SERIES

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THE WESTMOUNT SERIES

PHYSICAL DETAILS

- Octagonal tapered symmetrical cross section with flared base.
- Standard taper of 13mm/metre (0.155"/foot).
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 14 feet to 23 feet above grade.
- Will accept a variety of luminaire mounting styles.

WESTMOUNT SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	WE-190-A	14	5	5 3/8	10	7200	1200
	WE-200-A	15	5	5 1/4	10	7800	1270
	WE-210-A	16	5	5 1/16	10	8400	1335
	WE-220-A	17	5	4 15/16	10	9000	1395
	WE-230-A	18	5	4 3/4	10	9600	1450
	WE-240-A	19	5	4 5/8	10	10200	1500
	WE-250-A	20	5	4 1/2	10	10800	1545
	WE-260-A	21	5	4 5/16	10	11400	1585
	WE-270-A	22	5	4 1/8	10	12000	1620
	WE-280-A	23	5	4	10	12600	1650

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.

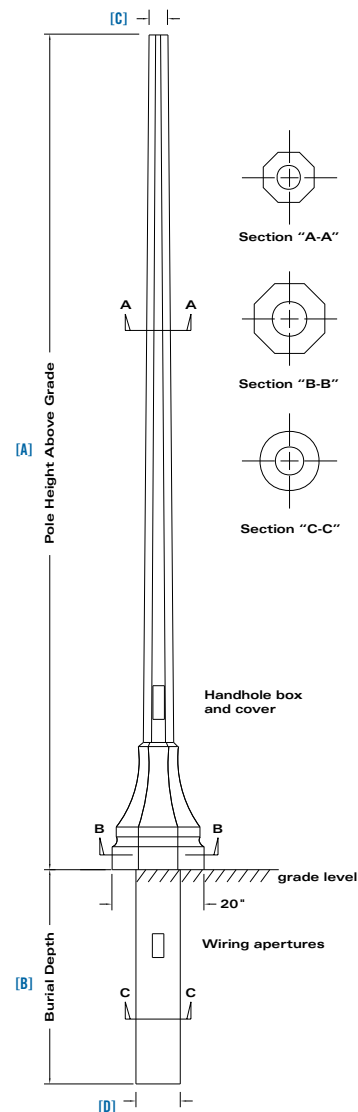


The Westmount Series

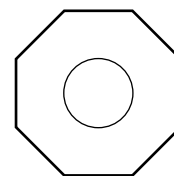


The Westmount Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



OCTAGONAL



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THE WESTMOUNT SERIES

Select SURFACE FINISH

The Westmount Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
2	Polished finish
3	Etched finish
4	Exposed finish

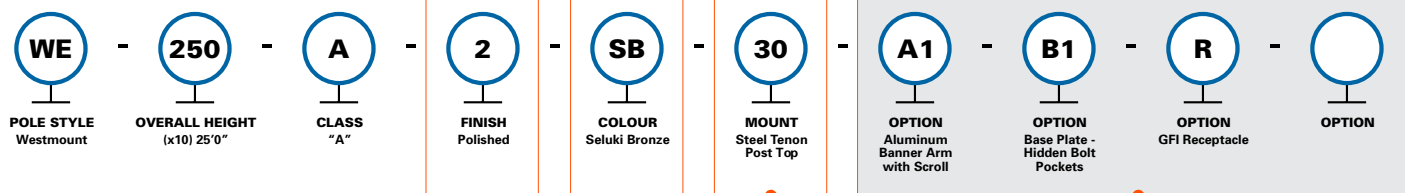
Select COLOUR

The Westmount Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Westmount Series is available with 7 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
40	Concrete Tenon/Post Top
55	Top Mount Octagonal
60	Scroll Arm
90	Custom Mount

Select OPTIONS & ACCESSORIES

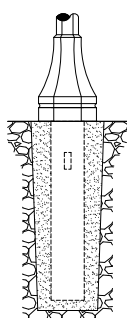
The Westmount Series has 20 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	F	Fin Cap - Octagonal
A2	Aluminum Banner Arm with Flower Pot Holder	H	Flag Holder
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L	Ladder Rest
A4	Aluminum Breakaway Banner Arm	L1	Ladder Rest with Scroll
B	Base Plate - Flush with Bolts Exposed	P	Interior Corrosion Protection
B1	Base Plate - Hidden Bolt Pockets	R	GFI Receptacle
B2	Base Plate - Below Grade Stub	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

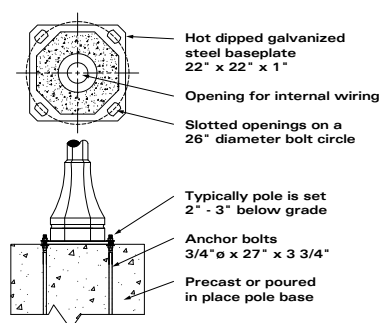
Standard and Cost Effective



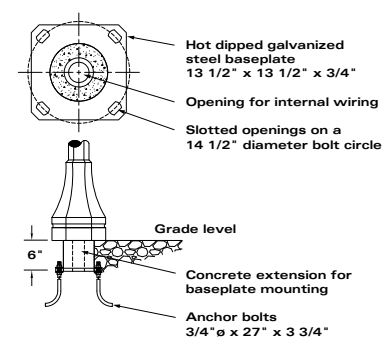
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



OPTION B2 Base Plate - Below Grade Stub



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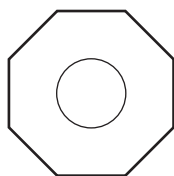


WE

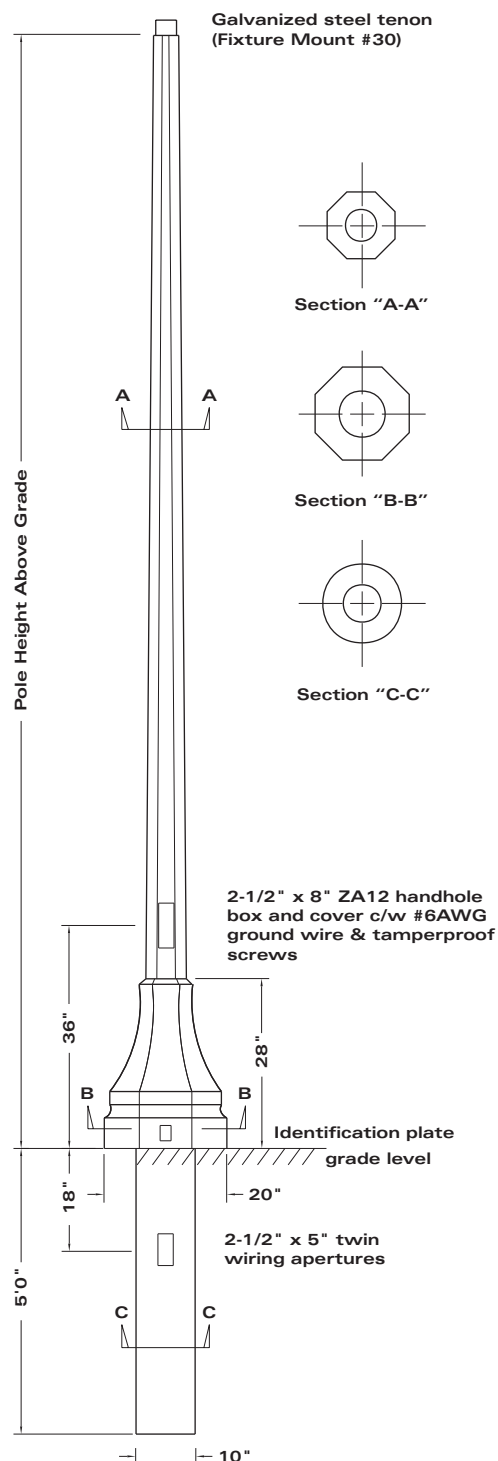
THE WESTMOUNT SERIES

TYPICAL POLE DETAIL

CROSS SECTION



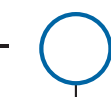
OCTAGONAL



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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PA



THE PARKDALE SERIES

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UTILITY STRUCTURES INC.



THE PARKDALE SERIES

PHYSICAL DETAILS

- Octagonal tapered symmetrical cross section with flared base.
- Standard taper of 19mm/metre (0.228"/foot).
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 18 feet to 27 feet above grade.
- Will accept a variety of luminaire mounting styles.

PARKDALE SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	PA-230-A	18	5	6 1/8	9 3/4	9600	1345
	PA-240-A	19	5	6	9 3/4	10200	1425
	PA-250-A	20	5	5 7/8	9 3/4	10800	1500
	PA-260-A	21	5	5 3/4	9 3/4	11400	1570
	PA-270-A	22	5	5 5/8	9 3/4	12000	1635
	PA-280-A	23	5	5 1/2	9 3/4	12600	1695
	PA-290-A	24	5	5 3/8	9 3/4	13200	1750
	PA-300-A	25	5	5 1/4	9 3/4	13800	1800
	PA-310-A	26	5	5 1/8	9 3/4	14400	1850
	PA-320-A	27	5	5	9 3/4	15000	1890

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. Tip dimensions are measured from flat to flat.

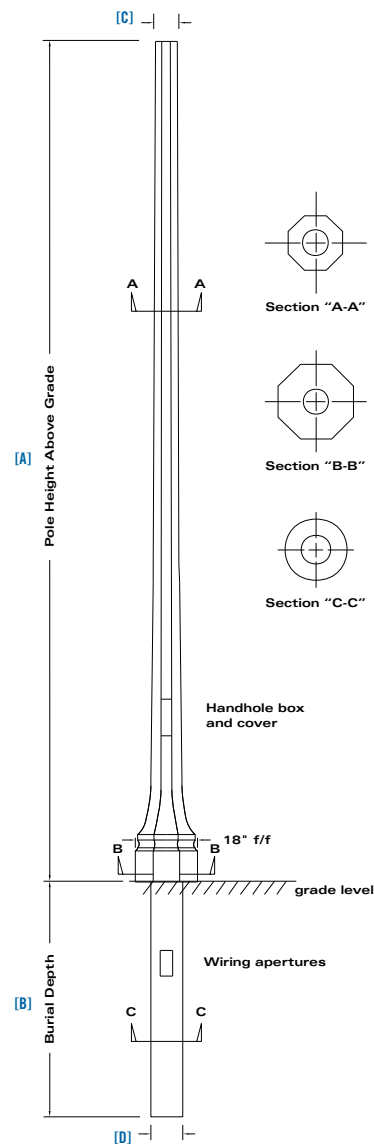


The Parkdale Series

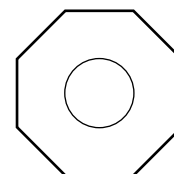


The Parkdale Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



OCTAGONAL



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THE PARKDALE SERIES

Select SURFACE FINISH

The Parkdale Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
2	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

The Parkdale Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Parkdale Series is available with 7 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
40	Concrete Tenon/Post Top
55	Top Mount Octagonal
60	Scroll Arm
90	Custom Mount

Select OPTIONS & ACCESSORIES

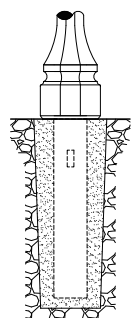
The Parkdale Series has 20 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	F	Fin Cap - Octagonal
A2	Aluminum Banner Arm with Flower Pot Holder	H	Flag Holder
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L	Ladder Rest
A4	Aluminum Breakaway Banner Arm	L1	Ladder Rest with Scroll
B	Base Plate - Flush with Bolts Exposed	P	Interior Corrosion Protection
B1	Base Plate - Hidden Bolt Pockets	R	GFI Receptacle
B2	Base Plate - Below Grade Stub	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

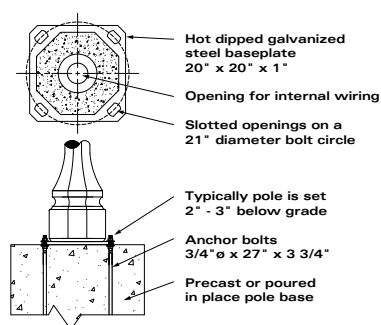
Standard and Cost Effective



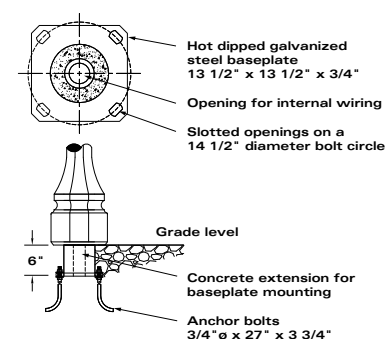
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



OPTION B2 Base Plate - Below Grade Stub



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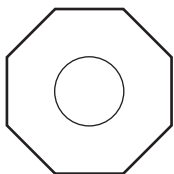
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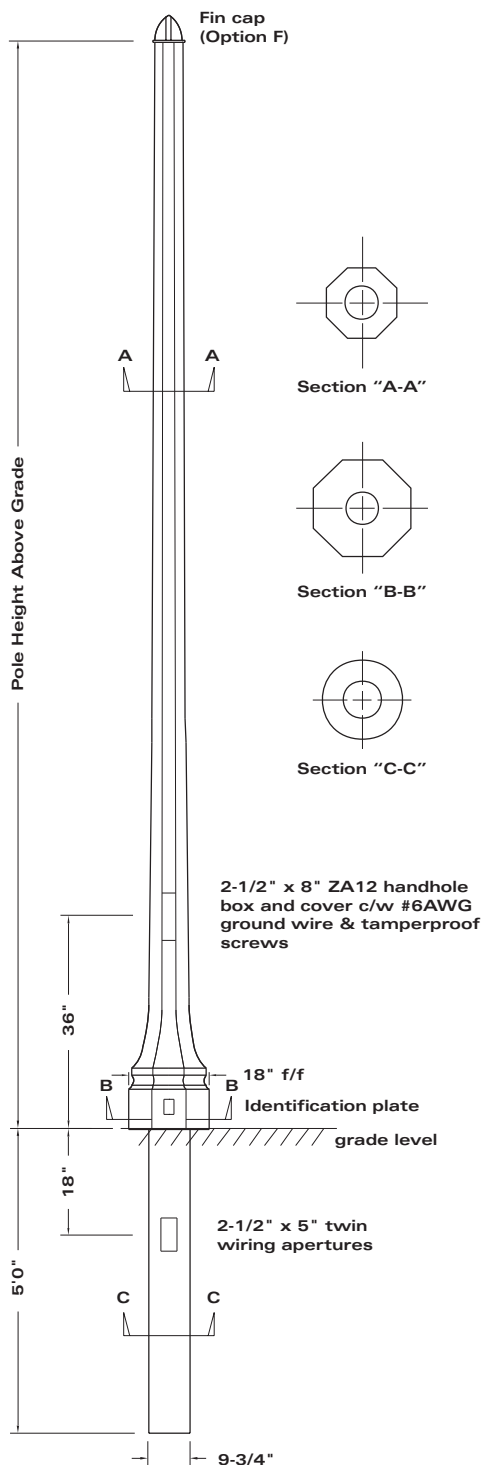
THE PARKDALE SERIES

TYPICAL POLE DETAIL











CROSS SECTION



OCTAGONAL



PLEASE FILL IN CODE

	-		-		-		-		-		-		-		-		-	
POLE STYLE		OVERALL HEIGHT		CLASS		FINISH		COLOUR		FIXTURE MOUNT		OPTION		OPTION		OPTION		OPTION

Select options as required



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OX



THE OXFORD SERIES

OF CONCRETE POLES



UTILITY STRUCTURES INC.



THE OXFORD SERIES

PHYSICAL DETAILS

- Square non-tapered (rounded edge) symmetrical cross section.
- 5 1/2 inch flat to flat cross section
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 8 1/2 feet to 25 feet above grade.
- Will accept a variety of luminaire mounting styles.
- Light Duty Pole

OXFORD SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE (Style-Height-Class)	[A] POLE HEIGHT ABOVE GRADE (ft.)	[B] DIRECT BURIAL LENGTH (ft.)	[C] POLE TIP DIMENSION (in.)	[D] POLE BUTT DIAMETER (in.)	ULTIMATE GROUND LINE MOMENT (ft.lbs.)	NOMINAL POLE WEIGHT (lbs.)
AL	OX-125-AL	8 1/2	4	5 1/2	5 1/2	3900	350
	OX-150-AL	11	4	5 1/2	5 1/2	5400	480
	OX-175-AL	13 1/2	4	5 1/2	5 1/2	6900	610
	OX-200-AL	15	5	5 1/2	5 1/2	7800	740
	OX-225-AL	17 1/2	5	5 1/2	5 1/2	9300	870
	OX-250-AL	20	5	5 1/2	5 1/2	10800	1000
	OX-275-AL	22 1/2	5	5 1/2	5 1/2	12300	1130
	OX-300-AL	25	5	5 1/2	5 1/2	13800	1270

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. **Tip and butt dimensions are measured from flat to flat.**

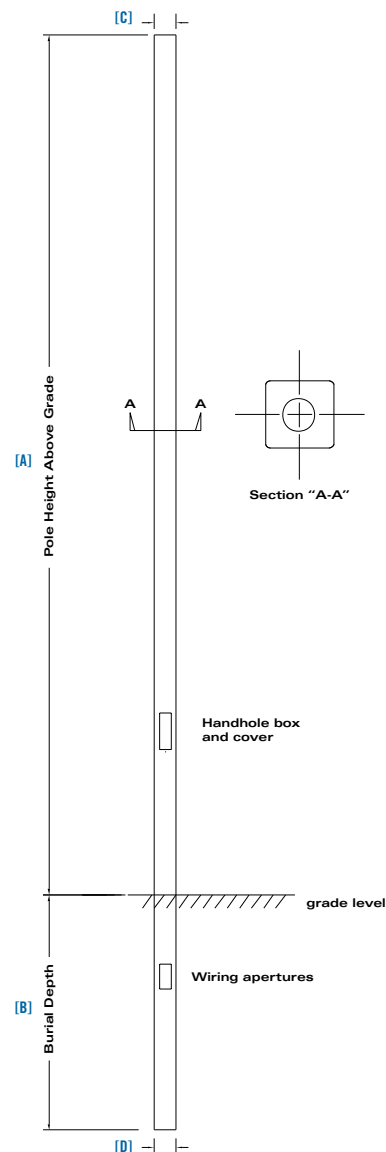


The Oxford Series

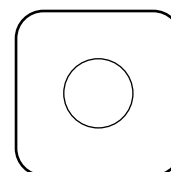


The Oxford Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



SQUARE



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THE OXFORD SERIES

Select SURFACE FINISH

The Oxford Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish (standard)
2	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

The Oxford Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

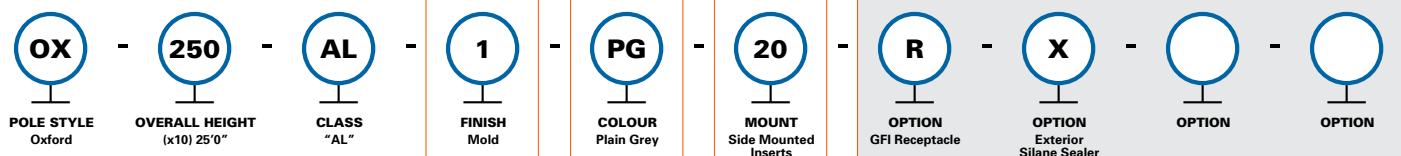
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



Plain Grey (PG) mold finish (1) is standard for all our poles.

CODE	DESCRIPTION
PG	Plain Grey (Standard)

EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Oxford Series is available with 5 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
60	Scroll Arm
90	Custom Mount

Select OPTIONS & ACCESSORIES

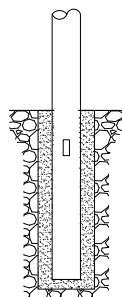
The Oxford Series has 16 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
C	Custom Accessory	S	Base Shroud - Square
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

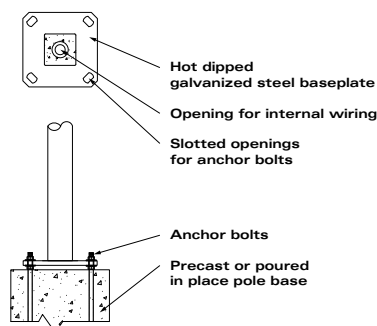
Standard and Cost Effective



1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION **B** Base Plate - Flush with Bolts Exposed



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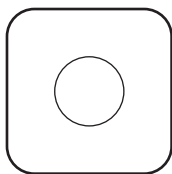
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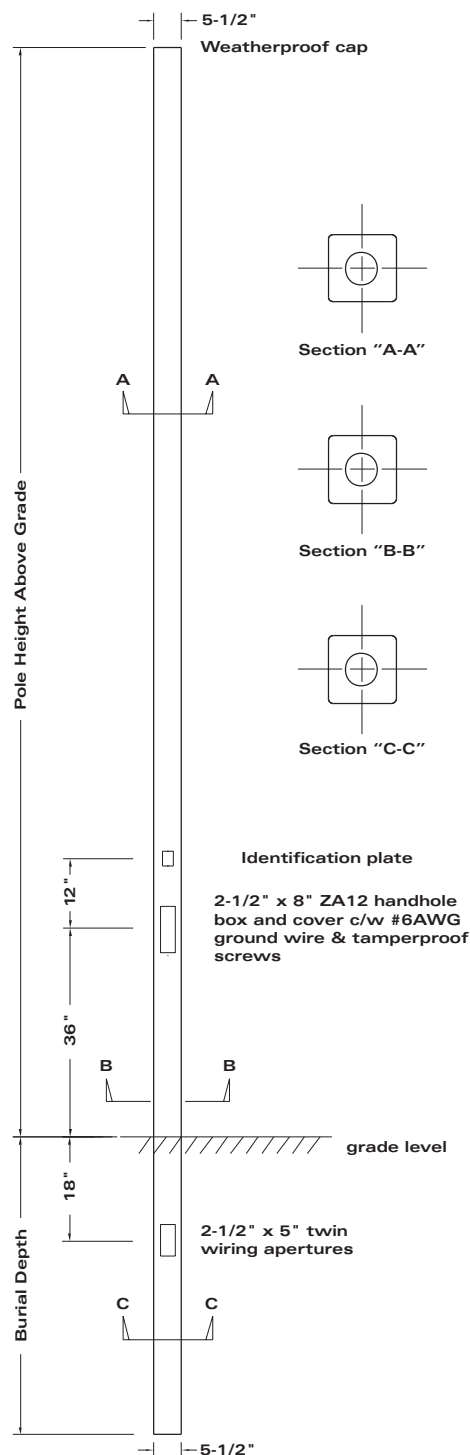
THE OXFORD SERIES

TYPICAL POLE DETAIL

CROSS SECTION



SQUARE



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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TH



THE THOMPSON SERIES

OF CONCRETE POLES



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THE THOMPSON SERIES

PHYSICAL DETAILS

- Square tapered (1" chamfered corners) symmetrical cross section.
- Standard taper of 10.4mm/metre (0.125"/foot).
- Standard mold, etched, exposed or polished finishes are available in a variety of colours.
- Available in heights from 11 feet to 39 feet above grade.
- Will accept a variety of luminaire mounting styles.

THOMPSON SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE (Style-Height-Class)	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	TH-150-A	11	4	4 3/4	6 5/8	5400	480
	TH-175-A	13 1/2	4	4 3/4	6 1/4	6900	590
	TH-200-A	15	5	4 3/4	7 1/4	7800	700
	TH-225-A	17 1/2	5	4 3/4	7 1/2	9300	825
	TH-250-A	20	5	4 3/4	7 7/8	10800	980
	TH-275-A	22 1/2	5	4 3/4	8 1/4	12350	1120
	TH-300-A	25	5	4 3/4	8 1/2	13800	1275
B	TH-250-B	20	5	4 3/4	7 7/8	16200	1030
	TH-275-B	22 1/2	5	4 3/4	8 1/4	18450	1180
	TH-300-B	25	5	4 3/4	8 1/2	20700	1340
	TH-325-B	27 1/2	5	4 3/4	8 7/8	22950	1510
	TH-350-B	30	5	4 3/4	9 1/8	25200	1690
	TH-375-B	32 1/2	5	4 3/4	9 3/8	27450	1880
	TH-400-B	34	6	4 3/4	9 3/4	28800	2120
	TH-425-B	36 1/2	6	4 3/4	10 1/8	31050	2345
	TH-450-B	39	6	4 3/4	10 3/8	34200	2580

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. **Tip dimensions are measured from flat to flat.**

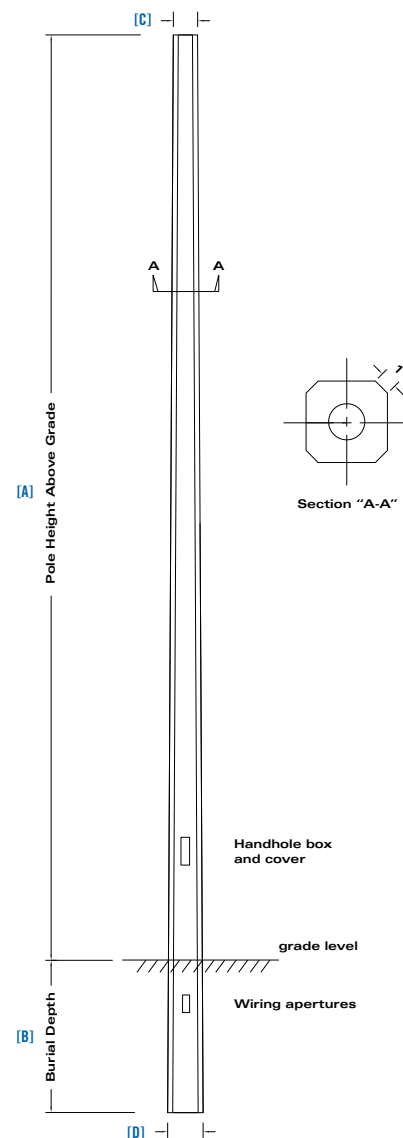


The Thompson Series

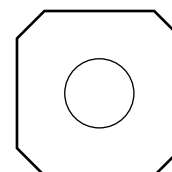


The Thompson Series

TYPICAL POLE DETAIL



CROSS SECTION



SQUARE



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THE THOMPSON SERIES

Select SURFACE FINISH

The Thompson Series is available with 4 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
2	Polished finish
3	Etched finish
4	Exposed finish

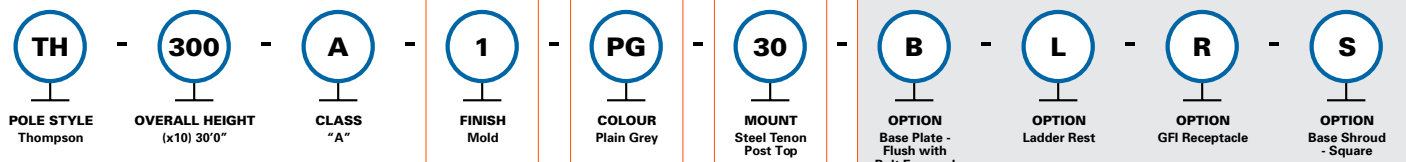
Select COLOUR

The Thompson Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Thompson Series is available with 6 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
60	Scroll Arm
80	Camera Mount
90	Custom Mount

Select OPTIONS & ACCESSORIES

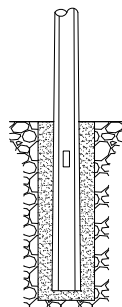
The Thompson Series has 16 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
C	Custom Accessory	S	Base Shroud - Square
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

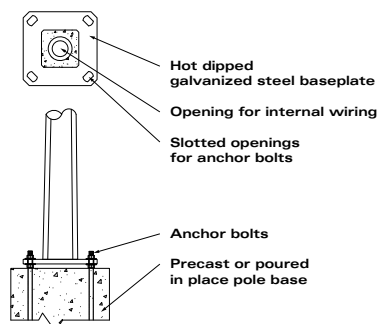
Standard and Cost Effective



1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION **B** Base Plate - Flush with Bolts Exposed



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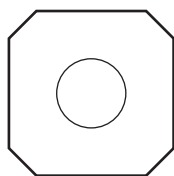


TH

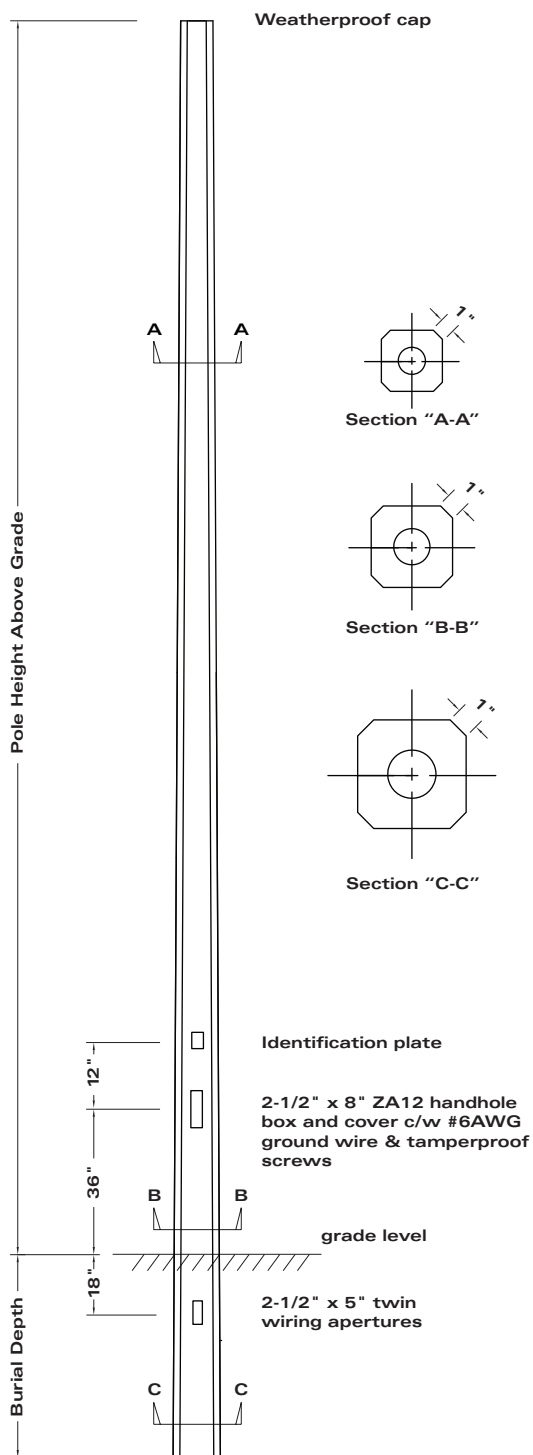
THE THOMPSON SERIES

TYPICAL POLE DETAIL

CROSS SECTION



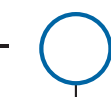
SQUARE



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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THE GRANDVIEW SERIES

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THE GRANDVIEW SERIES

PHYSICAL DETAILS

- Octagonal eight fluted symmetrical cross section.
- Standard taper of 9.5mm/metre (0.114"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 10 feet to 14 feet above grade.
- Will accept a variety of luminaire mounting styles.

GRANDVIEW SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	GR-150-A	10	5	6 1/4	9 3/4	4800	1100
	GR-160-A	11	5	6	9 3/4	5400	1175
	GR-170-A	12	5	5 3/4	9 3/4	6000	1250
	GR-180-A	13	5	5 5/8	9 3/4	6600	1325
	GR-190-A	14	5	9 1/4*	9 3/4	7200	1400

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on recommended burial depth for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. * Only the 14 feet above grade height of pole is available with the flared top.

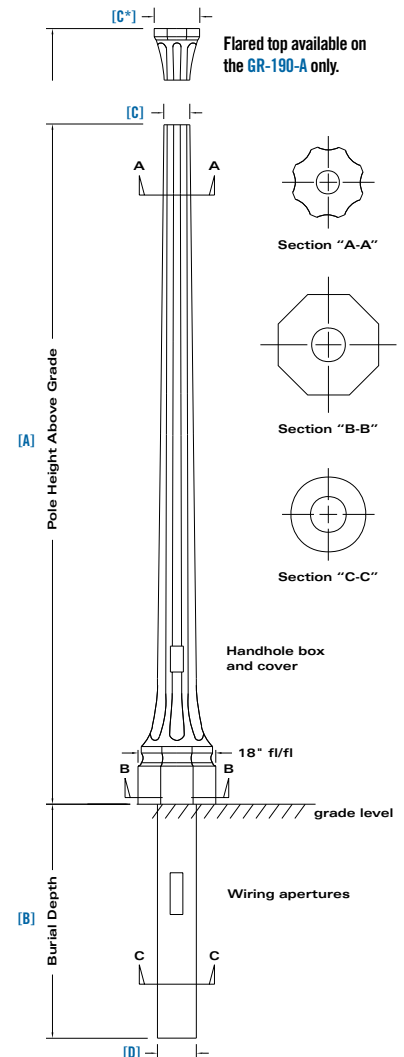


The Grandview Series

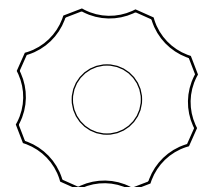


The Grandview Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



FLUTED



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THE GRANDVIEW SERIES

Select SURFACE FINISH

The Grandview Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
N/A	Polished finish
3	Etched finish
4	Exposed finish

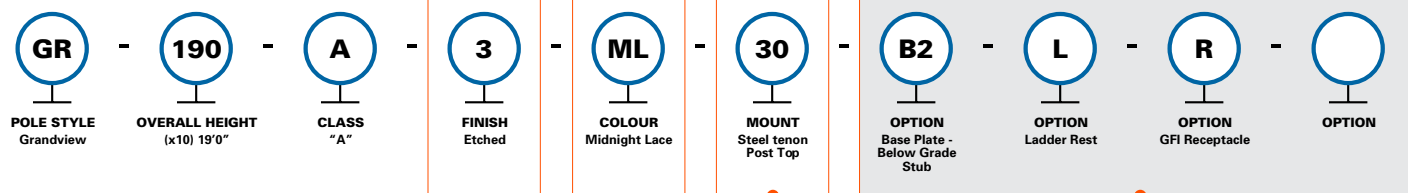
Select COLOUR

The Grandview Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Grandview Series is available with 2 fixture mount options.

CODE	DESCRIPTION
30	Steel Tenon/Post Top
90	Custom Mount

Select OPTIONS & ACCESSORIES

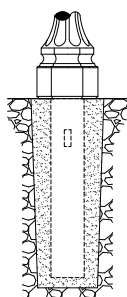
The Grandview Series has 19 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
B1	Base Plate - Hidden Bolt Pockets	S	Base Shroud - Square
B2	Base Plate - Below Grade Stub	S1	Base Shroud - Round
C	Custom Accessory	X	Exterior Silane Sealer
D	Double Handhole Box		

FOOTING DETAILS

DIRECT BURIAL

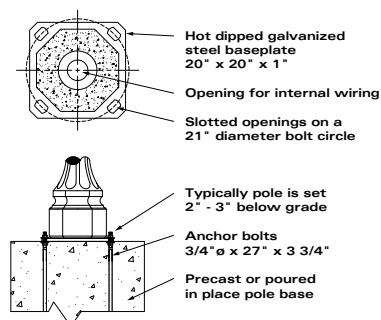
Standard and Cost Effective



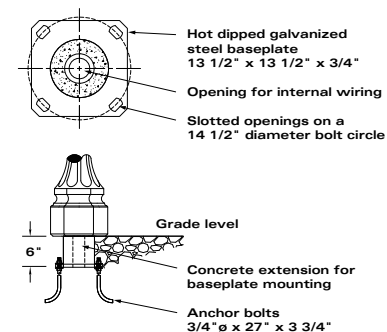
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION **B** Base Plate - Flush with Bolts Exposed



OPTION **B2** Base Plate - Below Grade Stub



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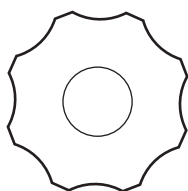


GR

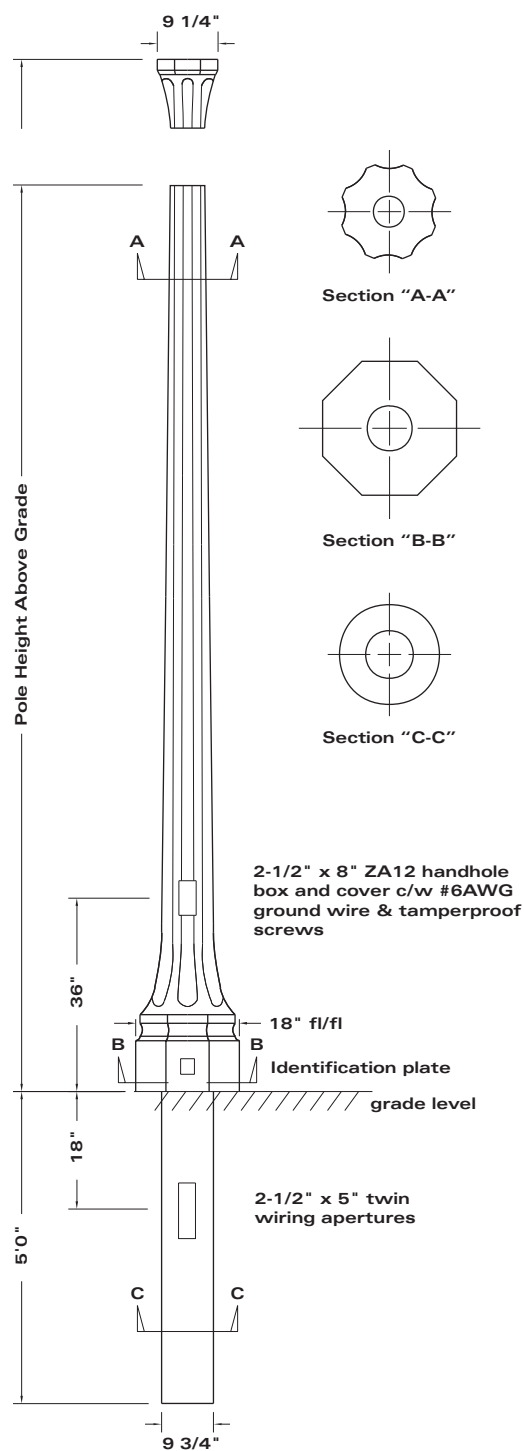
THE GRANDVIEW SERIES

TYPICAL POLE DETAIL

CROSS SECTION



FLUTED



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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WA



THE WASHINGTON SERIES

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THE WASHINGTON SERIES

PHYSICAL DETAILS

- Ten fluted symmetrical cross section.
- Standard taper of 6.2mm/metre (0.074"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 15 feet to 30 feet above grade.
- Will accept a variety of luminaire mounting styles.

WASHINGTON SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	WA-200-A	15	5	6 1/8	12	7800	1540
	WA-210-A	16	5	6 1/8	12	8400	1580
	WA-220-A	17	5	6	12	9000	1620
	WA-230-A	18	5	5 7/8	12	9600	1660
	WA-240-A	19	5	5 7/8	12	10200	1700
	WA-250-A	20	5	5 3/4	12	10800	1750
	WA-260-A	21	5	5 3/4	12	11400	1780
	WA-270-A	22	5	5 5/8	12	12000	1810
	WA-280-A	23	5	5 1/2	12	12600	1840
	WA-290-A	24	5	5 1/2	12	13200	1870
	WA-300-A	25	5	5 3/8	12	13800	1900
	WA-310-A	26	5	5 3/8	12	14400	1950
	WA-320-A	27	5	5 1/4	12	15000	2000
	WA-330-A	28	5	5 1/8	12	15600	2045
	WA-340-A	29	5	5 1/8	12	16200	2095
	WA-350-A	30	5	5	12	16800	2140

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. Tip dimensions are measured from flat to flat.

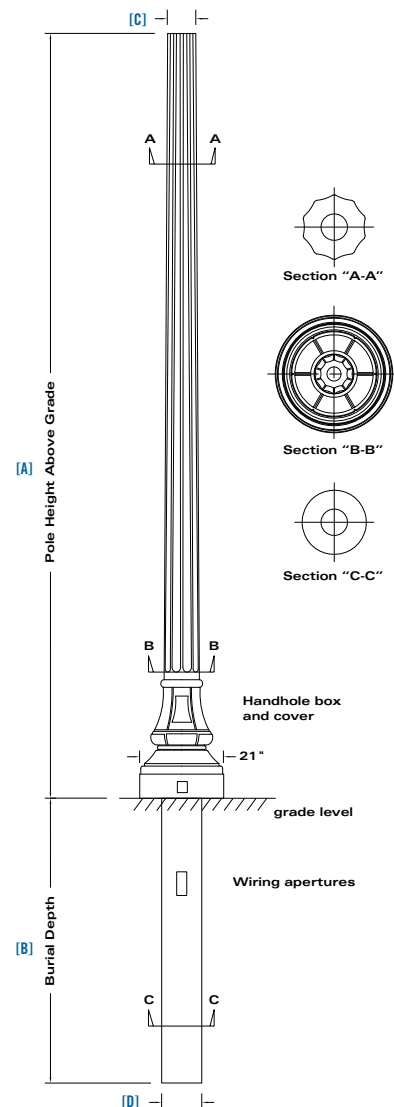


The Washington Series

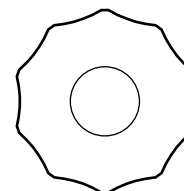


The Washington Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



FLUTED



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THE WASHINGTON SERIES

Select SURFACE FINISH

The Washington Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
N/A	Polished finish
3	Etched finish
4	Exposed finish

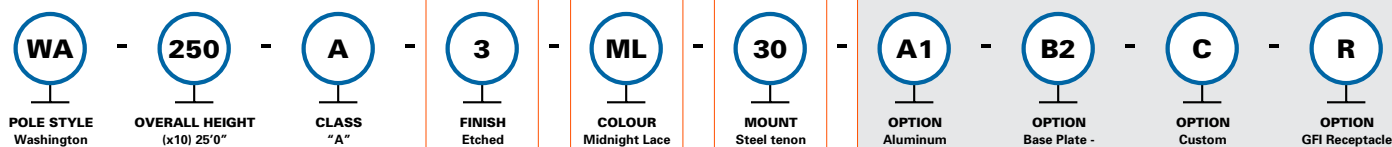
Select COLOUR

The Washington Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select options as required.

Select FIXTURE MOUNT

The Washington Series is available with 5 fixture mount options.

CODE	DESCRIPTION
10	Side Mount/Through Bolts
20	Side Mount/Inserts
30	Steel Tenon/Post Top
60	Scroll Arm
90	Custom Mount

Select OPTIONS & ACCESSORIES

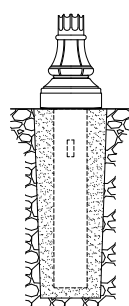
The Washington Series has 20 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	D2	Double Handhole Box with Inline Breaker
A1	Aluminum Banner Arm with Scroll	F	Fin Cap - Octagonal
A2	Aluminum Banner Arm with Flower Pot Holder	H	Flag Holder
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L	Ladder Rest
A4	Aluminum Breakaway Banner Arm	L1	Ladder Rest with Scroll
B	Base Plate - Flush with Bolts Exposed	P	Interior Corrosion Protection
B1	Base Plate - Hidden Bolt Pockets	R	GFI Receptacle
B2	Base Plate - Below Grade Stub	S	Base Shroud - Square
C	Custom Accessory	S1	Base Shroud - Round
D	Double Handhole Box	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

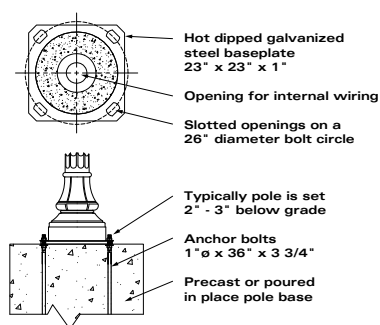
Standard and Cost Effective



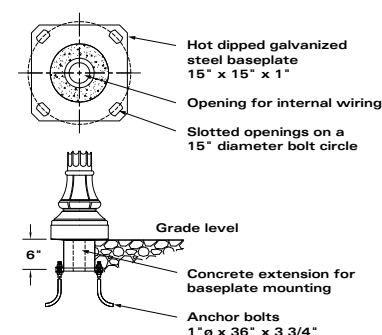
1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



OPTION B2 Base Plate - Below Grade Stub



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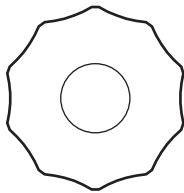
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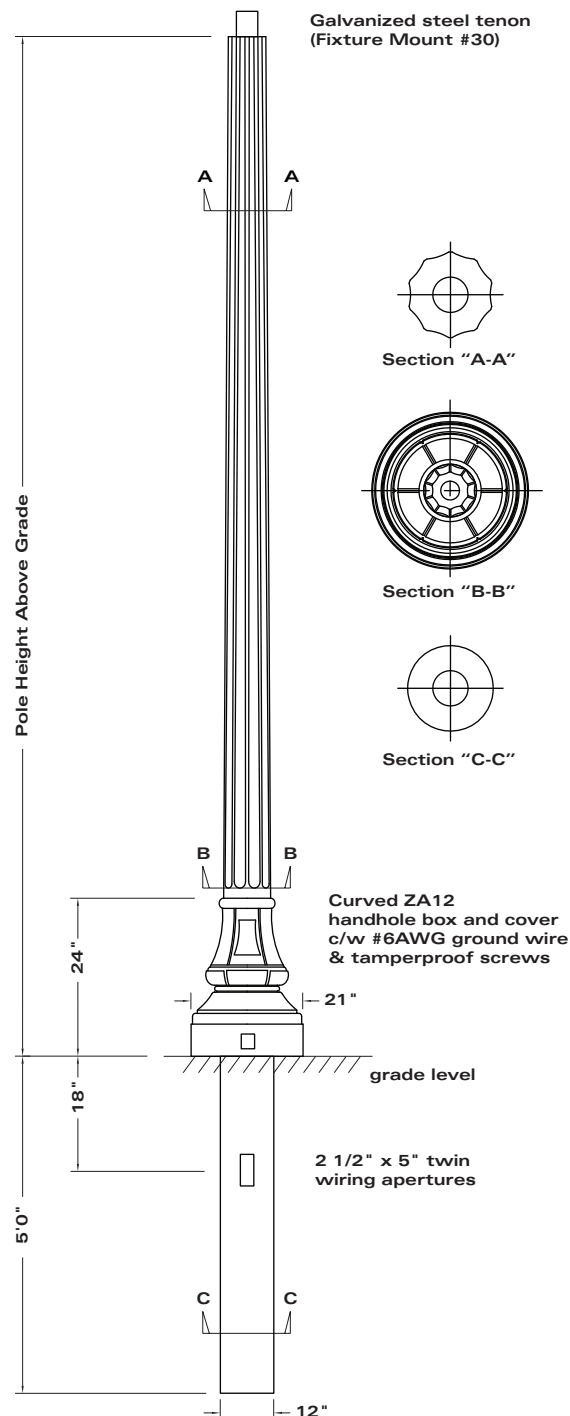
THE WASHINGTON SERIES

TYPICAL POLE DETAIL











CROSS SECTION



FLUTED



PLEASE FILL IN CODE

	-		-		-		-		-		-		-		-		-	
POLE STYLE		OVERALL HEIGHT		CLASS		FINISH		COLOUR		FIXTURE MOUNT		OPTION		OPTION		OPTION		OPTION

Select options as required



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AS



THE ASTORIA SERIES

OF CONCRETE POLES



UTILITY STRUCTURES INC.



THE ASTORIA SERIES

PHYSICAL DETAILS

- Eight fluted symmetrical cross section.
- Standard taper of 15mm/metre (0.18"/foot).
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Available in heights from 10 feet to 30 feet above grade.
- Will accept a variety of luminaire mounting styles.

ASTORIA SPECIFYING CHART

CLASS OF POLE	SPECIFYING POLE CODE [Style-Height-Class]	[A] POLE HEIGHT ABOVE GRADE [ft.]	[B] DIRECT BURIAL LENGTH [ft.]	[C] POLE TIP DIMENSION [in.]	[D] POLE BUTT DIAMETER [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
A	AS-150-A	10	5	4 3/4	8 11/16	4800	715
	AS-175-A	12 1/2	5	4 3/4	9 1/8	6300	840
	AS-200-A	15	5	4 3/4	9 5/8	7800	925
	AS-225-A	17 1/2	5	4 3/4	10	9300	1076
B	AS-250-B	20	5	4 3/4	10 1/2	16200	1320
	AS-275-B	22 1/2	5	4 3/4	10 15/16	18450	1520
	AS-300-B	25	5	4 3/4	11 3/8	20700	1730
	AS-325-B	27 1/2	5	4 3/4	11 7/8	22950	1970
	AS-350-B	30	5	4 3/4	12 5/16	25200	2215
C	AS-275-C	22 1/2	5	6	10 15/16	24600	1570
	AS-300-C	25	5	6	11 3/8	27600	1780
	AS-325-C	27 1/2	5	6	11 7/8	30600	2025
	AS-350-C	30	5	6	12 5/16	33600	2270

NOTES: This chart outlines typical heights and class of poles for this style. Other sizes are available upon request. Pole height above grade based on standard burial depth of 5' 0" for normal soils. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength. Tip dimensions are measured from flat to flat.

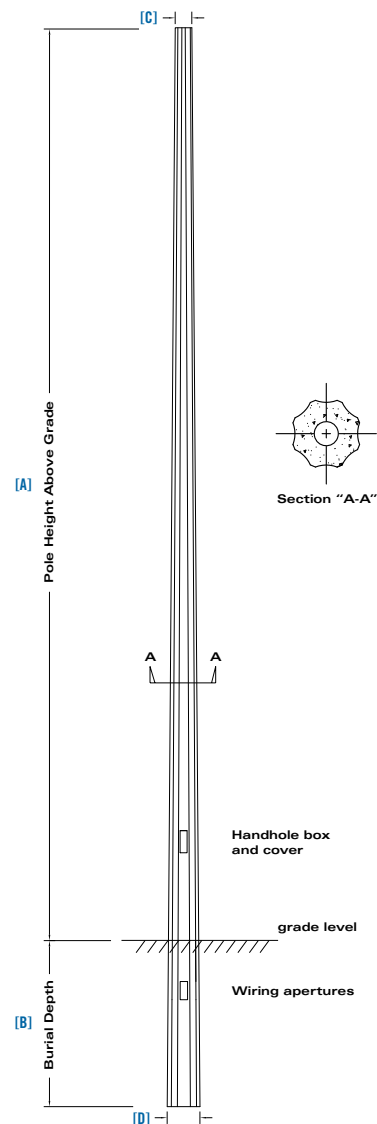


The Astoria Series

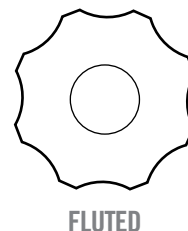


The Astoria Series base detail

TYPICAL POLE DETAIL



CROSS SECTION



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THE ASTORIA SERIES

Select SURFACE FINISH

The Astoria Series is available with 3 types of surface finishes.

CODE	DESCRIPTION
1	Mold finish
N/A	Polished finish
3	Etched finish
4	Exposed finish

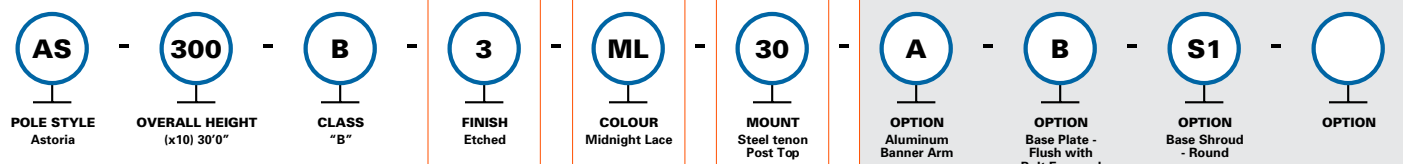
Select COLOUR

The Astoria Series is available in all 12 colours. Please visit our Colours & Finishes section for complete information. Custom colours are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
AR	Autumn Red	DR	Desert Rose	OJ	Oriental Jade
AJ	Aztec Jade	DS	Desert Sand	SP	Salt & Pepper
BE	Black Eclipse	ML	Midnight Lace	SB	Seluki Bronze
DB	Dark Bronze	NG	Natural Grey	VW	Venetian White



EXAMPLE OF TYPICAL CATALOG NUMBER



Select FIXTURE MOUNT

The Astoria Series is available with 6 fixture mount options.

CODE	DESCRIPTION
10	Side Mounted/Through Bolts
20	Side Mounted/Inserts
30	Steel Tenon/Post Top
60	Scroll Arm
80	Camera Mount
90	Custom Mount

Select OPTIONS & ACCESSORIES

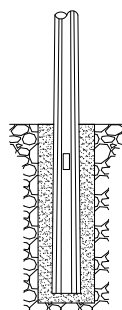
The Astoria Series has 18 standard options and accessories to choose from. Please visit our Options & Accessories section for complete information. Custom accessories are available upon request.

CODE	DESCRIPTION	CODE	DESCRIPTION
A	Aluminum Banner Arm	F	Fin Cap - Octagonal
A1	Aluminum Banner Arm with Scroll	H	Flag Holder
A2	Aluminum Banner Arm with Flower Pot Holder	L	Ladder Rest
A3	Aluminum Banner Arm with Scroll and Flower Pot Holder	L1	Ladder Rest with Scroll
A4	Aluminum Breakaway Banner Arm	P	Interior Corrosion Protection
B	Base Plate - Flush with Bolts Exposed	R	GFI Receptacle
C	Custom Accessory	S	Base Shroud - Square
D	Double Handhole Box	S1	Base Shroud - Round
D2	Double Handhole Box with Inline Breaker	X	Exterior Silane Sealer

FOOTING DETAILS

DIRECT BURIAL

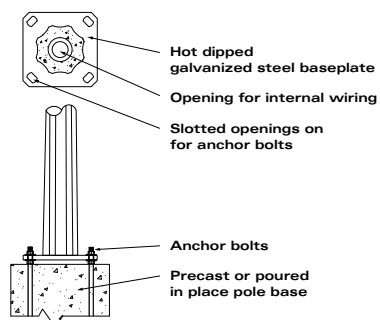
Standard and Cost Effective



1. Auger the appropriate size hole.
2. Set pole in hole and plumb straight.
3. Backfill with specified material, tamping every 6".

Note: Generally the native material can be used for backfill. Depending on site conditions, alternative materials may be required.

OPTION B Base Plate - Flush with Bolts Exposed



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THE ASTORIA SERIES

OF CONCRETE POLES



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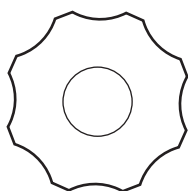


AS

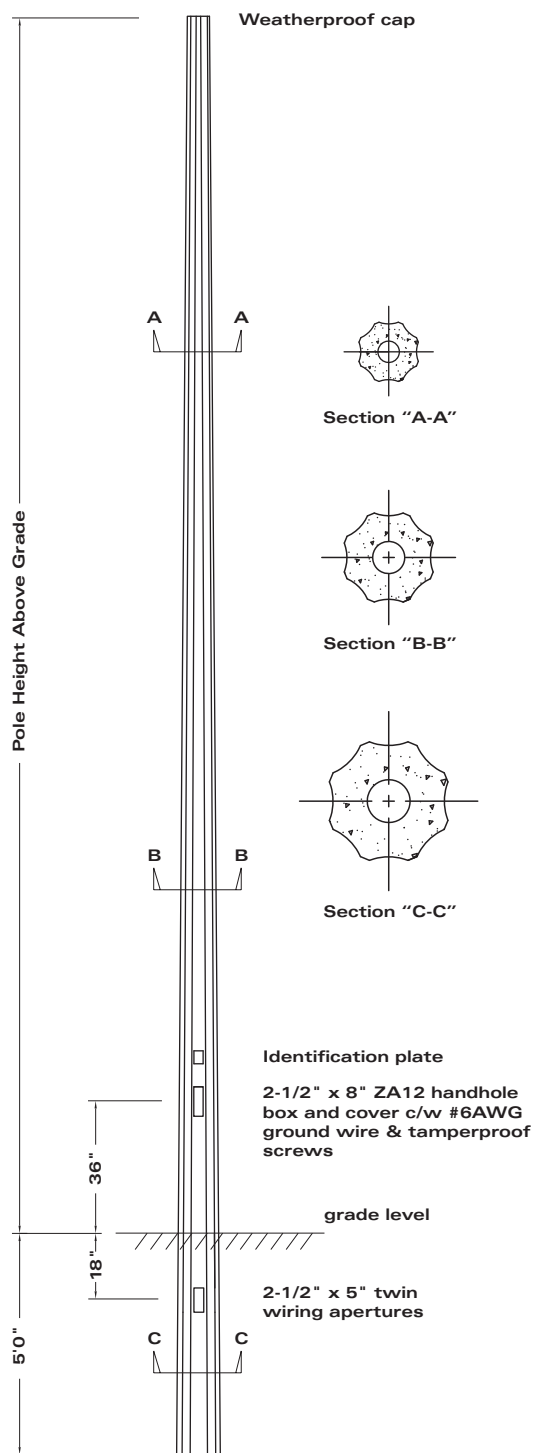
THE ASTORIA SERIES

TYPICAL POLE DETAIL

CROSS SECTION



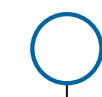
FLUTED



PLEASE FILL IN CODE



POLE STYLE



OVERALL HEIGHT



CLASS



FINISH



COLOUR



FIXTURE MOUNT

Select options as required



OPTION



OPTION



OPTION



OPTION



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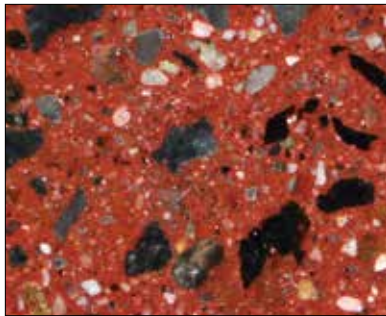
COLOURS & FINISHES

FOR CONCRETE POLES



UTILITY STRUCTURES INC.

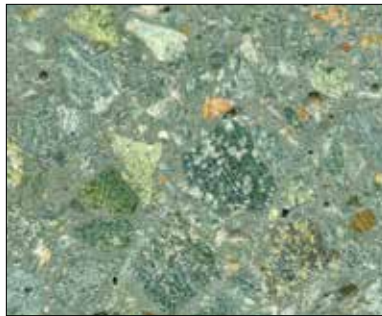
COLOURS - POLISHED FINISHES 2



Autumn Red

SELECT CODES

2 - AR



Aztec Jade

SELECT CODES

2 - AJ



Black Eclipse

SELECT CODES

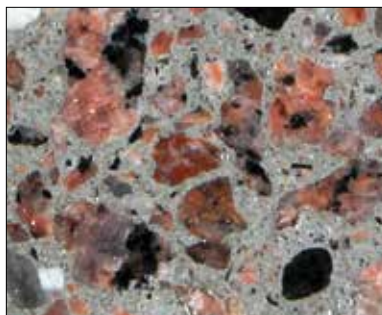
2 - BE



Dark Bronze

SELECT CODES

2 - DB



Desert Rose

SELECT CODES

2 - DR



Desert Sand

SELECT CODES

2 - DS



Midnight Lace

SELECT CODES

2 - ML



Natural Grey

SELECT CODES

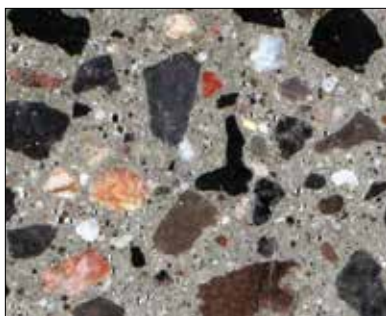
2 - NG



Oriental Jade

SELECT CODES

2 - OJ



Salt & Pepper

SELECT CODES

2 - SP



Seluki Bronze

SELECT CODES

2 - SB

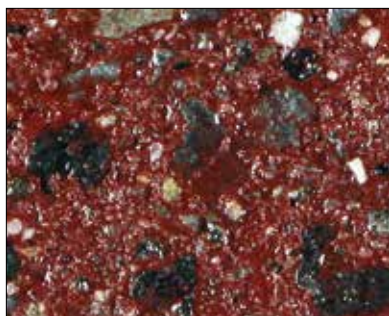


Venetian White

SELECT CODES

2 - VW

COLOURS - ETCHED FINISHES 3



Autumn Red

SELECT CODES

3 - AR



Aztec Jade

SELECT CODES

3 - AJ



Black Eclipse

SELECT CODES

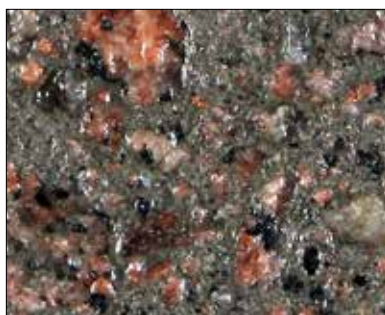
3 - BE



Dark Bronze

SELECT CODES

3 - DB



Desert Rose

SELECT CODES

3 - DR



Desert Sand

SELECT CODES

3 - DS



Midnight Lace

SELECT CODES

3 - ML



Natural Grey

SELECT CODES

3 - NG



Oriental Jade

SELECT CODES

3 - OJ



Salt & Pepper

SELECT CODES

3 - SP



Seluki Bronze

SELECT CODES

3 - SB



Venetian White

SELECT CODES

3 - VW

COLOURS - EXPOSED FINISHES 4



Autumn Red

SELECT CODES

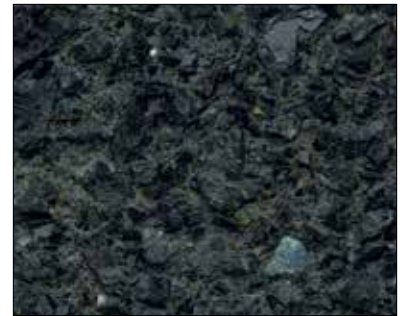
4 - AR



Aztec Jade

SELECT CODES

4 - AJ



Black Eclipse

SELECT CODES

4 - BE



Dark Bronze

SELECT CODES

4 - DB



Desert Rose

SELECT CODES

4 - DR



Desert Sand

SELECT CODES

4 - DS



Midnight Lace

SELECT CODES

4 - ML



Natural Grey

SELECT CODES

4 - NG



Oriental Jade

SELECT CODES

4 - OJ



Salt & Pepper

SELECT CODES

4 - SP



Seluki Bronze

SELECT CODES

4 - SB



Venetian White

SELECT CODES

4 - VW

FINISHES

There are four pole finishes to choose from, each offering a different texture to suit the application:

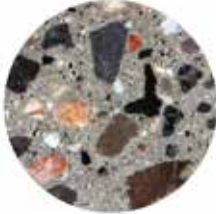
1



TYPE 1 – PLAIN GREY (PG) MOLD FINISH

Plain Grey (PG) mold finish (1) is standard for all poles. This finish is typically used in combination with plain grey (PG), non-decorative concrete poles. Natural limestone aggregates and concrete sand combined with cement, to provide a plain grey (PG), out of the mold finish (1). This is typically used on our Hampton, Newport and Oxford series poles.

2



TYPE 2 – POLISHED FINISH

This surface finish is accomplished by polishing the face of the concrete pole by mechanical means. Diamond polishing discs work the surface to an ultra smooth finish. After polishing the face of the pole, a minimum of two coats of clear sealer are applied to further enhance the natural beauty of the stone.

3



TYPE 3 – ETCHED FINISH

This surface finish, as the name suggests is a semi-rough finish. The etching of the pole surface is accomplished by sand blasting the face of the pole. The sand blasting removes the outer layer of mortar, exposing the decorative aggregates beneath. As with the polished finish, a sealer is applied to enhance the look.

4



TYPE 4 – EXPOSED FINISH

This surface finish is a two-stage process. Initially the pole form is coated with a “surface retarder”, which delays the hardening of the thin outer layer of the concrete. After the pole is cured, the pole surface is pressure washed with water to expose the aggregate. This finish is a rough finish, with large portions of the aggregate showing. No sealers are typically applied to this pole.

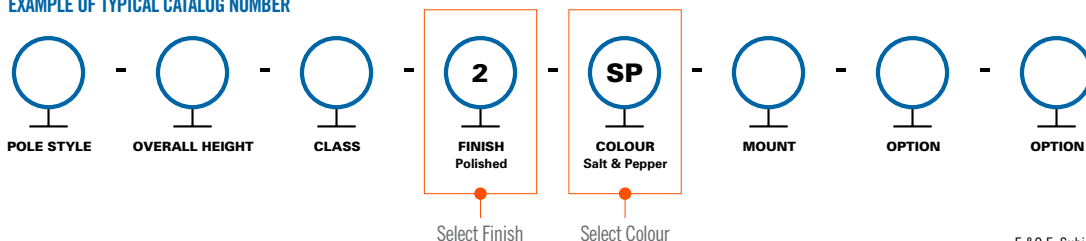


ABOUT OUR COLOURS & FINISHES

The decorative pole finish is not a veneer or a painted finish. The entire concrete matrix is a combination of specialty decorative colored aggregates, pigments, and cement. The entire pole is spun cast with this concrete mix. The combination of various concrete mix designs and surface finishes provides the client with over 36 standard finishes (custom colours available upon request) to choose from.

POSITION REFERENCE OF COLOUR AND FINISH CODE IN TYPICAL CATALOGUE NUMBER

EXAMPLE OF TYPICAL CATALOG NUMBER





CODE: 4 - AJ



CODE: 3 - VW



CODE: 2 - BE

COLOURS & FINISHES

FOR CONCRETE POLES



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FIXTURE MOUNT - OPTIONS

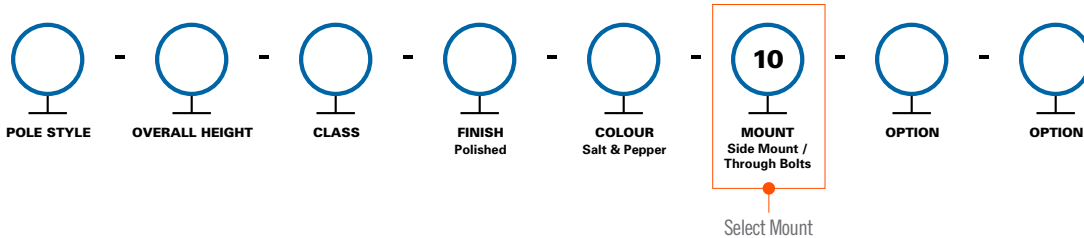
Concrete poles offer the flexibility to accommodate all types of fixture/arm mounts. Following are the most commonly used in the industry. If a style is not shown, tag Style 90 (custom mount) and contact our sales department. Mounting hardware and fixtures are not included with the pole and must be ordered separately.

FIXTURE MOUNT CODES AND DESCRIPTIONS

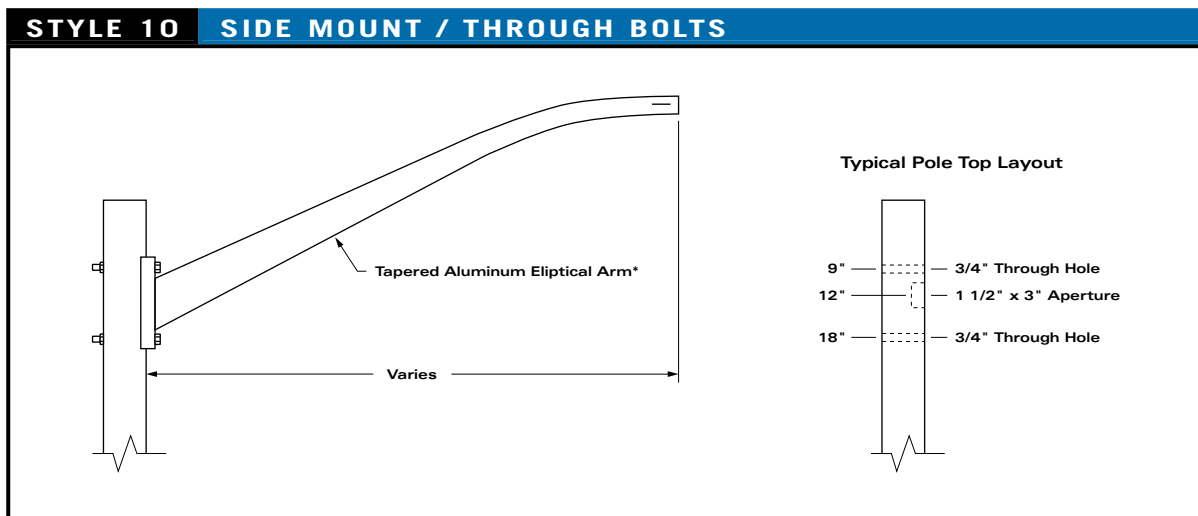
CODE	DESCRIPTION
10	Side Mount / Through Bolts
20	Side Mount / Inserts
30	Steel Tenon / Post Top
40	Concrete Tenon / Post Top
50	Top Mount / Round
55	Top Mount / Octagonal
60	Scroll Arm
70	Clamp On
80	Camera Mount
90	Custom Mount - as per client needs

POSITION REFERENCE OF FIXTURE MOUNT CODE IN TYPICAL CATALOGUE NUMBER

EXAMPLE OF TYPICAL CATALOG NUMBER



FIXTURE MOUNT DIAGRAMS



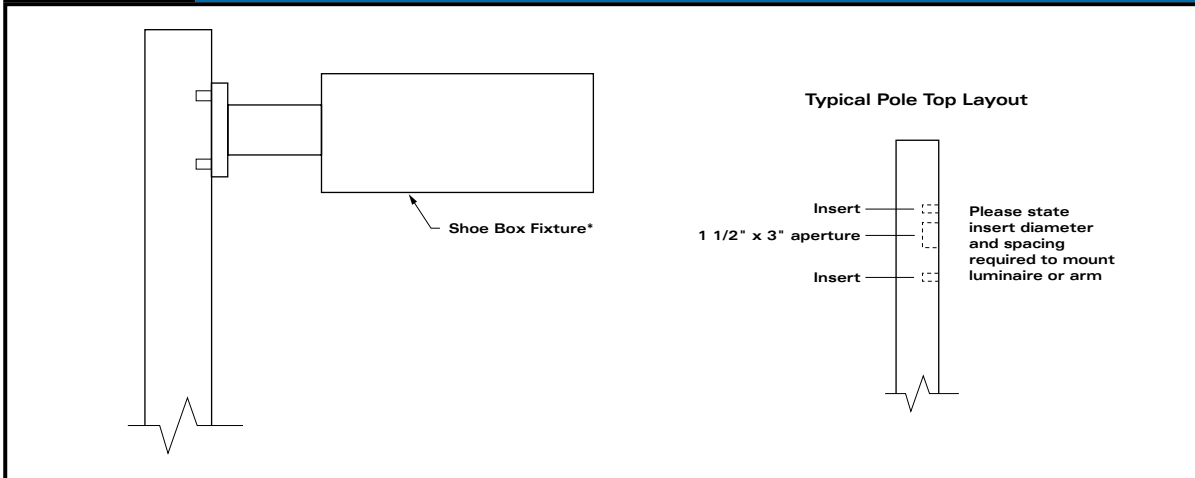
* Mounting hardware, arms and fixtures are not included with pole.



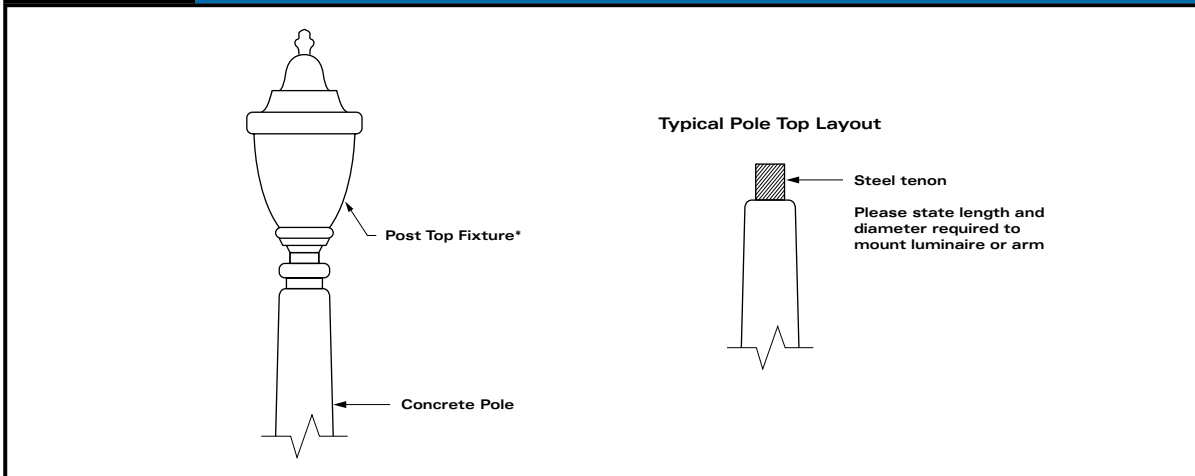
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FIXTURE MOUNT - OPTIONS

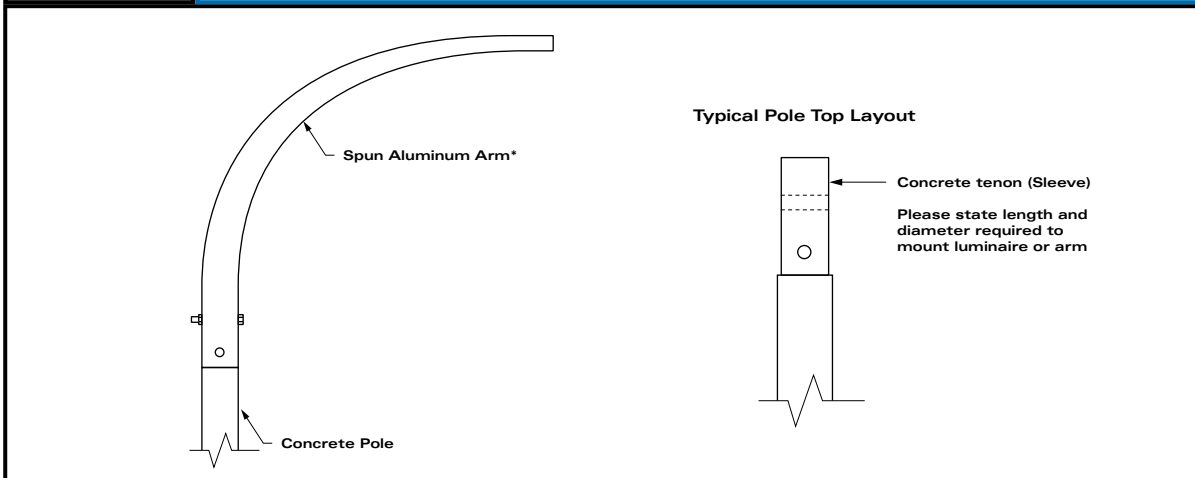
STYLE 20 SIDE MOUNT / INSERT



STYLE 30 STEEL TENON / POST TOP



STYLE 40 CONCRETE TENON / POST TOP



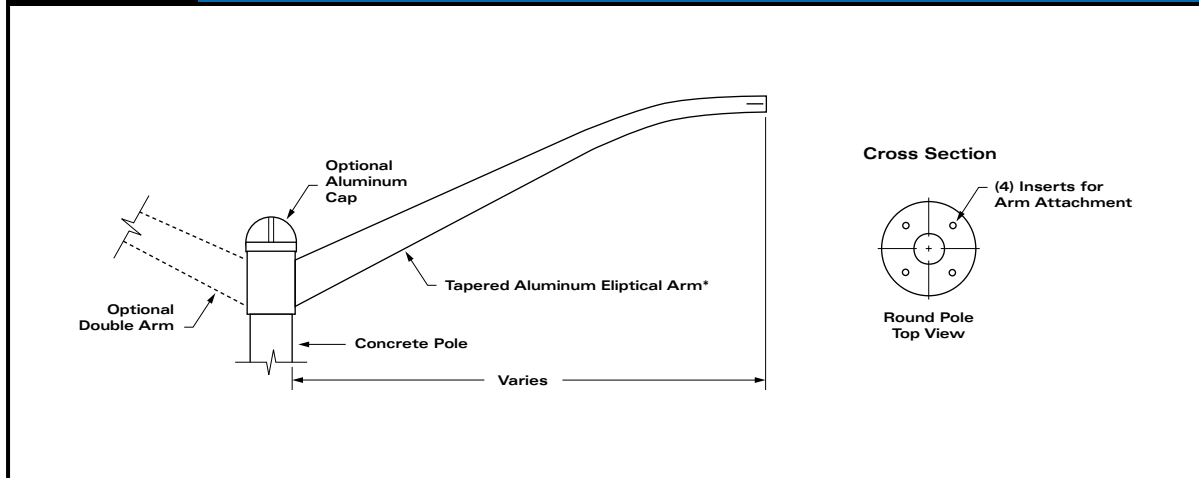
* Mounting hardware, arms and fixtures are not included with pole.



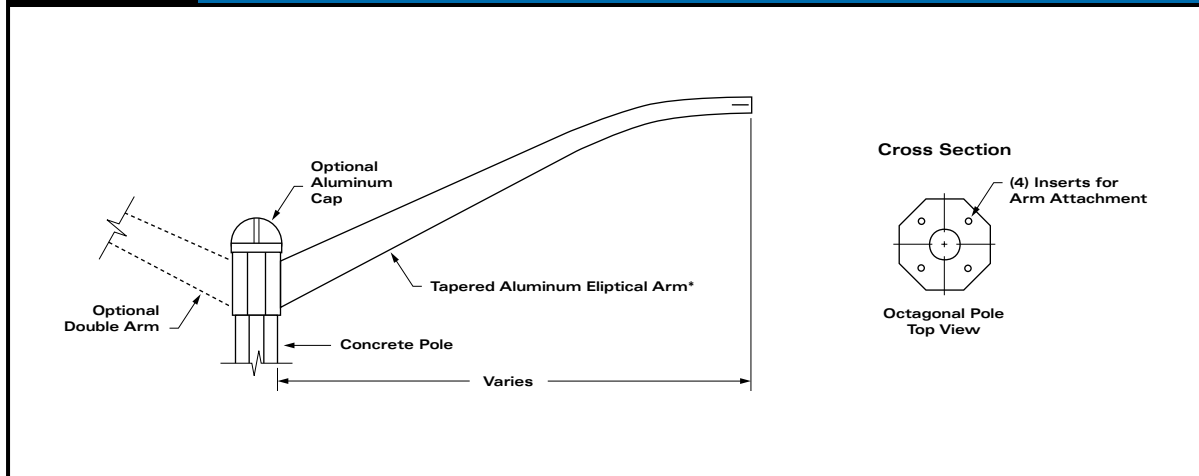
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FIXTURE MOUNT - OPTIONS

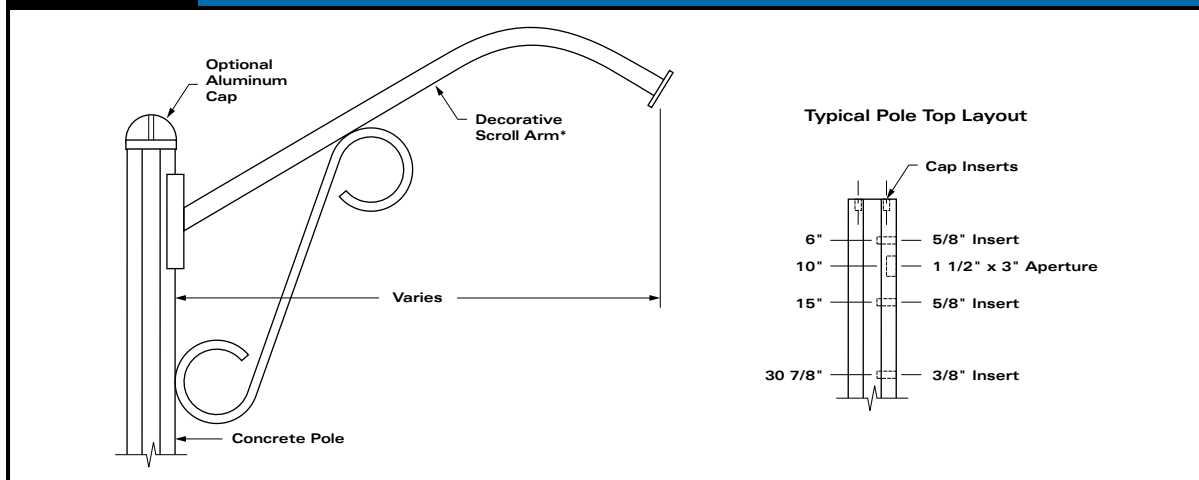
STYLE 50 TOP MOUNT - ROUND



STYLE 55 TOP MOUNT - OCTAGONAL



STYLE 60 SCROLL ARM



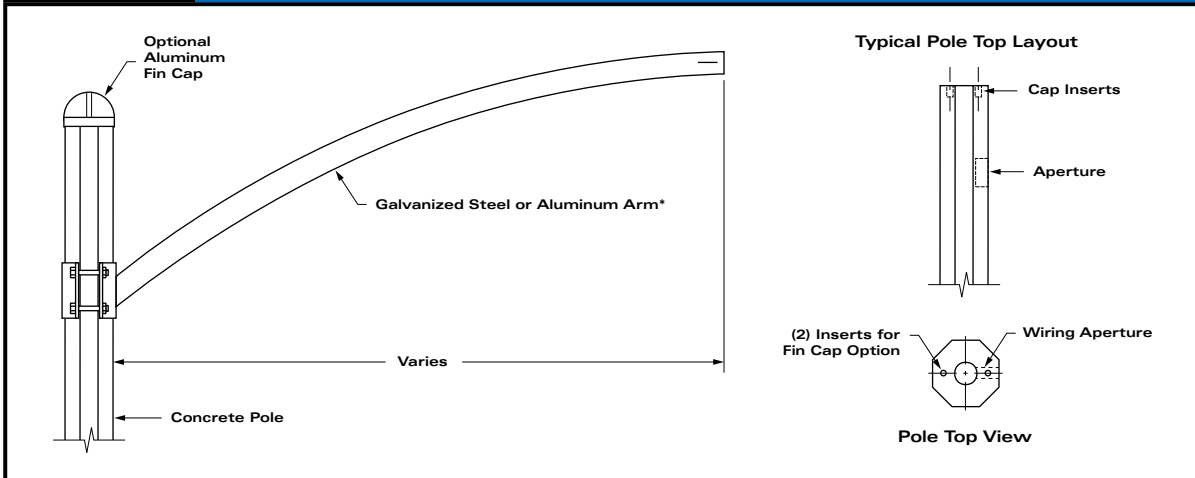
* Mounting hardware, arms and fixtures are not included with pole.



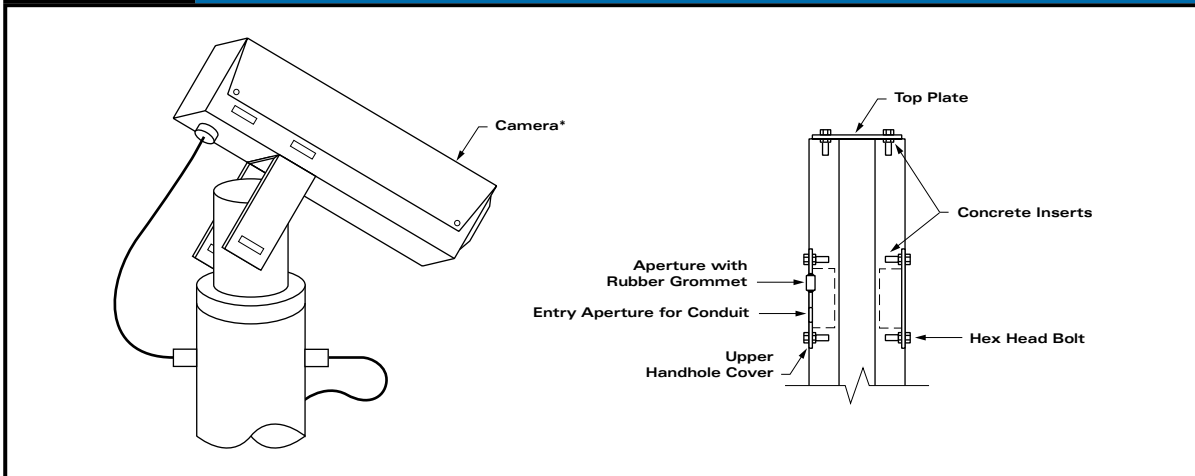
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FIXTURE MOUNT - OPTIONS

STYLE 70 CLAMP ON



STYLE 80 CAMERA MOUNT



STYLE 90 CUSTOM MOUNT

**USI can accommodate any style of fixture or arm.
If the style you require is not shown,
please tag Style 90 and contact our sales department.**

** Mounting hardware, arms and fixtures are not included with pole.*



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OPTIONS & ACCESSORIES

Decorative Arm Options

USI Product Code	Description
A	Banner Arm
A1	Banner Arm with Scroll
A2	Banner Arm with Flower Pot Holder
A3	Banner Arm with Scroll and Flower Pot Holder
A4	Breakaway Banner Arm
L	Ladder Arm Rest
L1	Ladder Arm Rest with Scroll

We offer you a greater selection of options and accessories.

Once you've selected the concrete pole you're looking for, relax knowing that we can help make your vision a reality and get the results you want, with our options and accessories. If you're thinking of adding a banner arm, a flower pot holder, or any other custom accessory, we've got you covered.

Base Plate Options

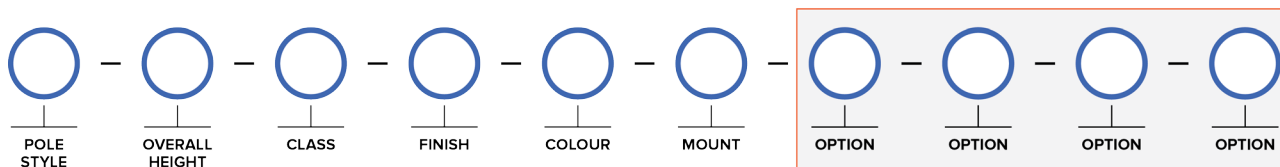
USI Product Code	Description
B	Base Plate - Flush with Bolts Exposed
B1	Base Plate - Hidden Bolt Pockets
B2	Base Plate - Below Grade Stub
S	Base Plate Shroud - Square
S1	Base Plate Shroud - Round

Miscellaneous Options

USI Product Code	Description
C	Custom Accessory
D	Double Handhole Box
D2	Double Handhole Box with In-Pole Breaker
F	Fin Caps - Octagonal
H	Flag Holder
P	Admixture Corrosion Protection
R	GFI Receptacle
W	Wire Entry
X	Exterior Silane Sealer



Position reference of **OPTIONS CODE** in typical catalogue number



More than one option may be selected by adding the code(s) to the catalogue number.

Select option(s) as required



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Decorative Arm Options

A

Banner Arm

Select code: **A**



A1

Banner Arm
with Scroll

Select code: **A1**



A2

Banner Arm
with Flower Pot
Holder

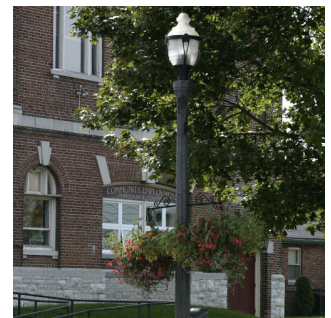
Select code: **A2**



A3

Banner Arm
with Scroll and
Flower Pot
Holder

Select code: **A3**



A4

Breakaway
Banner Arm

Select code: **A4**



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Decorative Arm Options



Ladder Arm
Rest

Select code: **L**



Ladder Arm
Rest with Scroll

Select code: **L1**



Base Plate Options



Base Plate –
Flush with
Bolts Exposed

Select code: **B**



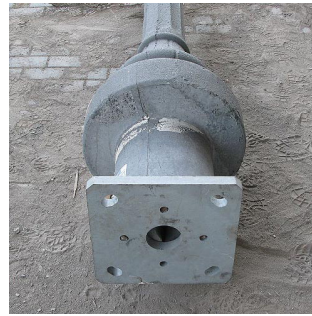
Base Plate –
Hidden Bolt
Pockets

Select code: **B1**



Base Plate –
Below Grade
Stub

Select code: **B2**



Base Plate Shroud –
Square

Select code: **S**



Base Plate Shroud –
Round

Select code: **S1**



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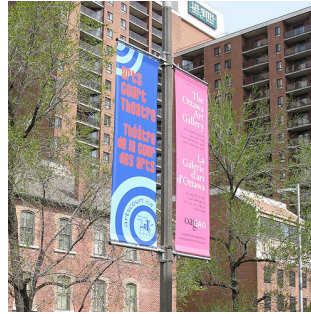
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Miscellaneous Options



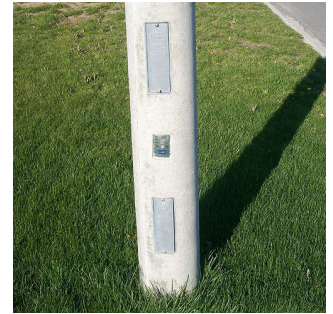
Custom Accessory

Select code: **C**



Double Handhole Box

Select code: **D**



Double Handhole Box with In-Pole Breaker

Select code: **D2**



Fin Caps - Octagonal

Select code: **F**



Flag Holder

Select code: **H**



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Miscellaneous Options



Admixture Corrosion Protection

Extend the life of reinforced concrete, with this proven migratory corrosion inhibitor. It's a liquid concrete admixture that protects steel reinforcing and other metals embedded in concrete from corrosion induced carbonation, chloride and atmospheric attack. When incorporated into the concrete mix it forms a protective layer on all metals.



Select code: **P**



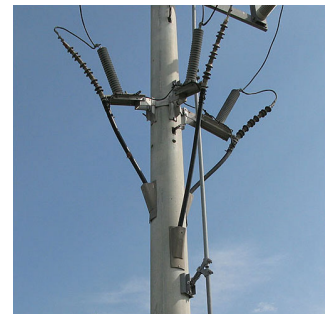
GFI Receptacle



Select code: **R**



Wire Entry

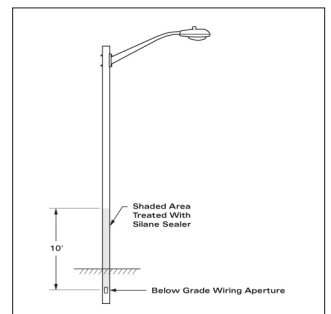


Select code: **W**



Exterior Silane Sealer

Typically applied to plain grey streetlighting poles (ie HAMPTON SERIES) this Silane Sealer is a premium high performance, breathable, VOC penetrating, clear water repellent sealer. Treated surfaces still have a totally natural appearance. This sealer is very effective in stopping the intrusion of water, salt, chemicals and acids. Typically applied 10 feet above the wiring aperture, but special arrangements can be made for severe environments. Can only be used when acrylic sealer is not applied.



Select code: **X**



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SPORTSLIGHTING

C O N C R E T E P O L E S



UTILITY STRUCTURES INC.

SPORTSLIGHTING

PHYSICAL DETAILS

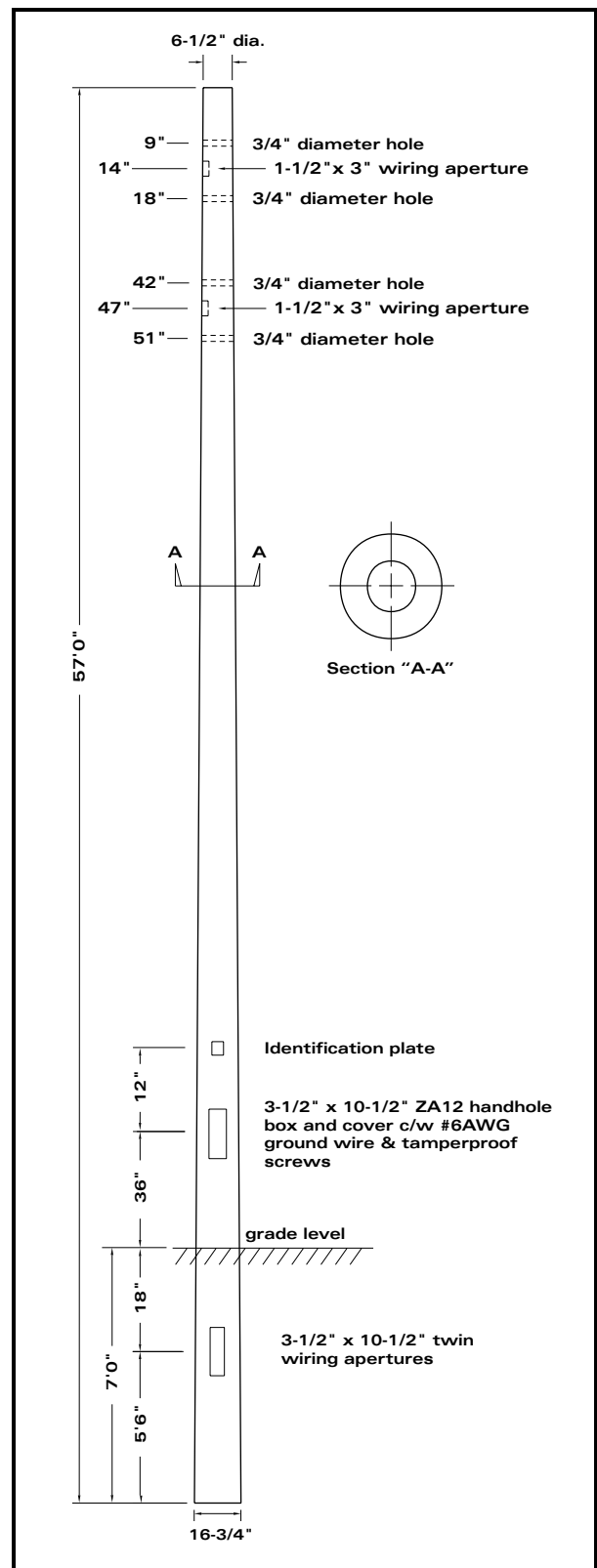
- Hampton series pole is a typical standard.
- Round symmetrical cross section.
- Standard taper of 15mm/metre (0.18"/foot).
- Standard mold finish, but etched decor finishes are available upon request.
- Available in heights from 10 feet to 85 feet overall.
- Will accept a variety of luminaire mounting styles and crossarm mounting configurations.

STANDARD FEATURES

- Pole adapts to fit most crossarms and accessories. Refer to our crossarms and accessories sections for typical details
- 3 1/2" x 10 1/2" standard handhole box is cast into pole at 36" above grade. Box and coverplate are both high density ZA12 Zinc Alloy material.
- Stainless steel coverplate screws with various drives in either Robertson #3, Allen key, or Tamperproof.
- Ground feature of either an external ground lug or an internal copper ground wire. Various sizes/gauges are available.
- Zinc inserts in 1/4", 3/8", 1/2", 5/8" or 3/4" are available.
- Above and below grade wiring apertures are available in a number or various sizes. 1 1/2" x 3" is typical for above grade, and 3 1/2" x 10 1/2" is typical for below grade.
- Through holes for arms, fixtures, and accessories are available in a variety of diameters. 1/2", 3/4" and 1" are typical.

INSTALLATION DETAILS

- Pole is generally direct buried in the ground, eliminating the need for the more costly base mounted design.
- A good rule of thumb for burial depth is 10% of pole length plus 2 feet.
- In most cases the native material can be used for backfill material. If the soil is poor or there are heavy loads on the poles, select backfill may be required. Refer to the technical data sheets.



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S P O R T S L I G H T I N G P O L E S

CLASS OF POLE	MIN. ULT. TRANSVERSE LOAD (lb.)	POLE CATALOGUE NUMBER	OVERALL POLE LENGTH [ft.]	POLE HEIGHT ABOVE GRADE [ft.]	SUGGESTED BURIAL DEPTH [ft.]	POLE TIP DIA. [in.]	POLE BUTT DIA. [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	Max EPA			NOMINAL POLE WEIGHT [lbs.]
									80 mph (sq.ft.)	90 mph (sq.ft.)	100 mph (sq.ft.)	
C	1200	HA-410-C-1-PG	41' 0"	35' 0"	6' 0"	6 1/2"	13 7/8"	39600	22	16	12	2750
	1200	HA-460-C-1-PG	46' 0"	40' 0"	6' 0"	6 1/2"	14 3/4"	45600	21	15	11	3350
	1200	HA-520-C-1-PG	52' 0"	45' 0"	7' 0"	6 1/2"	15 7/8"	51600	20	14	10	4150
D	1500	HA-410-D-1-PG	41' 0"	35' 0"	6' 0"	6 1/2"	13 7/8"	49500	29	22	16	2780
	1500	HA-460-D-1-PG	46' 0"	40' 0"	6' 0"	6 1/2"	14 3/4"	57000	28	21	15	3360
	1500	HA-520-D-1-PG	52' 0"	45' 0"	7' 0"	6 1/2"	15 7/8"	64500	27	19	14	4180
	1500	HA-570-D-1-PG	57' 0"	50' 0"	7' 0"	6 1/2"	16 3/4"	72000	22	15	10	4920
	1500	HA-630-D-1-PG	63' 0"	55' 0"	8' 0"	6 1/2"	17 13/16"	79500	20	14	9	5870
	1500	HA-680-D-1-PG	68' 0"	60' 0"	8' 0"	8"	20 1/4"	87000	19	13	8	6000
E	1900	HA-410-E-1-PG	41' 0"	35' 0"	6' 0"	6 1/2"	13 7/8"	62700	38	29	22	2790
	1900	HA-460-E-1-PG	46' 0"	40' 0"	6' 0"	6 1/2"	14 3/4"	72200	37	28	21	3370
	1900	HA-520-E-1-PG	52' 0"	45' 0"	7' 0"	6 1/2"	15 7/8"	81700	36	27	20	4190
	1900	HA-570-E-1-PG	57' 0"	50' 0"	7' 0"	6 1/2"	16 3/4"	91200	30	22	16	4930
	1900	HA-630-E-1-PG	63' 0"	55' 0"	8' 0"	8"	19 5/16"	100700	29	20	15	7140
	1900	HA-680-E-1-PG	68' 0"	60' 0"	8' 0"	8"	20 1/4"	110200	27	19	13	8020
F	2400	HA-410-F-1-PG	41' 0"	35' 0"	6' 0"	6 1/2"	13 7/8"	79200	50	38	30	3150
	2400	HA-460-F-1-PG	46' 0"	40' 0"	6' 0"	6 1/2"	14 3/4"	91200	49	37	29	3770
	2400	HA-520-F-1-PG	52' 0"	45' 0"	7' 0"	6 1/2"	15 7/8"	103200	48	36	28	4580
	2400	HA-570-F-1-PG	57' 0"	50' 0"	7' 0"	8"	18 1/4"	115200	40	30	22	6200
	2400	HA-630-F-1-PG	63' 0"	55' 0"	8' 0"	8"	19 5/16"	127200	39	29	21	7160
	2400	HA-680-F-1-PG	68' 0"	60' 0"	8' 0"	8"	20 1/4"	139200	38	27	20	8050
G	3000	HA-460-G-1-PG	46' 0"	40' 0"	6' 0"	8"	16 1/4"	114000	63	48	38	4500
	3000	HA-520-G-1-PG	52' 0"	45' 0"	7' 0"	8"	17 3/8"	129000	60	45	35	5420
	3000	HA-570-G-1-PG	57' 0"	50' 0"	7' 0"	8"	18 1/4"	144000	51	38	29	6220
	3000	HA-630-G-1-PG	63' 0"	55' 0"	8' 0"	8"	19 5/16"	159000	49	36	27	7240
	3000	HA-680-G-1-PG	68' 0"	60' 0"	8' 0"	8"	20 1/4"	174000	48	35	26	8120
	3000	HA-740-G-1-PG	74' 0"	65' 0"	9' 0"	8***	19 9/16"	189000	46	33	24	8600
	3000	HA-790-G-1-PG	79' 0"	70' 0"	9' 0"	8***	20 5/16"	204000	45	32	23	9700
H	3700	HA-520-H-1-PG	52' 0"	45' 0"	7' 0"	8"	17 3/8"	159100	76	58	45	5450
	3700	HA-570-H-1-PG	57' 0"	50' 0"	7' 0"	8"	18 1/4"	177600	65	49	38	6250
	3700	HA-630-H-1-PG	63' 0"	55' 0"	8' 0"	8"	19 5/16"	196100	64	48	36	7250
	3700	HA-680-H-1-PG	68' 0"	60' 0"	8' 0"	8"	20 1/4"	233100	62	46	35	8200
	3700	HA-740-H-1-PG	74' 0"	65' 0"	9' 0"	8**	19 9/16"	233100	61	45	33	9000
	3700	HA-790-H-1-PG	79' 0"	70' 0"	9' 0"	8***	20 5/16"	251600	59	43	32	10200
J	4500	HA-520-J-1-PG	52' 0"	45' 0"	7' 0"	8"	17 3/8"	193500	95	73	57	5500
	4500	HA-570-J-1-PG	57' 0"	50' 0"	7' 0"	8"	18 1/4"	216000	82	62	48	6300
	4500	HA-630-J-1-PG	63' 0"	55' 0"	8' 0"	8"	19 5/16"	238500	80	61	47	7300
	4500	HA-680-J-1-PG	68' 0"	60' 0"	8' 0"	8"	20 1/4"	261000	79	59	45	8250
	4500	HA-740-J-1-PG	74' 0"	65' 0"	9' 0"	8***	19 9/16"	283500	77	58	44	9400
	4500	HA-790-J-1-PG	79' 0"	70' 0"	9' 0"	8***	20 5/16"	306000	76	56	42	10700
K	5400	HA-680-K-1-PG	68' 0"	60' 0"	8' 0"	9 1/2"	21 3/4"	313200	96	73	56	9150
	5400	HA-740-K-1-PG	74' 0"	65' 0"	9' 0"	9 1/2***	21 1/16"	340200	94	71	54	10700

NOTES: This chart outlines typical heights and class of poles. Other sizes are available upon request. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.
Pole tip diameters indicated with an asterisk (*) have a taper of 13mm/m. Standard taper on all other poles is 15mm/m.

SPORTSLIGHTING

ACCESSORIES CODES

HOW TO SPECIFY A SPORTS LIGHT POLE

Products such as crossarms, platforms, polesteps, and GFI receptacles are standard accessories available with our sportslighting poles. The poles can be manufactured to suit these products, or made to suit products supplied by others. To specify a pole with the accessories supplied by Utility Structures, include the "USI" code following the pole cata-

logue number. Then follow the "USI" code with the specific codes required for the accessories. Refer to the chart on accessories for the specific items you wish to include. If you want the pole to be designed for a particular accessories but do not want Utility Structures to supply, just leave out the "USI" code.

	CODE	DESCRIPTION OF OPTIONS
OPTIONS	R	GFI Receptacle
	PS	5/8" x 8" galvanized steel pole steps
	LP	Lighting Platform

	CODE	DESCRIPTION
SURFACE FINISHES	1	Mold finish
	3	Etched and acrylic applied
	4	Exposed aggregate

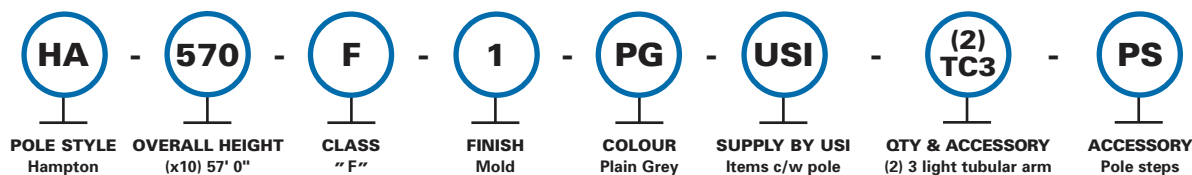
	CODE	DESCRIPTION OF COLOR
COLOR MATRIX	PG	Plain Grey
	ML	Midnight Lace
	BE	Black Eclipse
	SB	Seluki Bronze
	AJ	Aztec Jade
	OJ	Oriental Jade
	DS	Desert Sand

	CODE	DESCRIPTION OF OPTIONS
OPTIONS	TC2	2 light 4" x 4" tubular crossarm
	TC3	3 light 4" x 4" tubular crossarm
	TC4	4 light 4" x 4" tubular crossarm
	TC5	5 light 4" x 4" tubular crossarm

	CODE	DESCRIPTION OF OPTIONS
OPTIONS	AC2	2 light 4" structural angle crossarm
	AC3	3 light 4" structural angle crossarm
	AC4	4 light 4" structural angle crossarm
	AC5	5 light 4" structural angle crossarm

	CODE	DESCRIPTION OF OPTIONS
OPTIONS	BB2	2 light bullhorn bracket (straight)
	BB3	3 light bullhorn bracket (straight)
	BB3A	3 light bullhorn bracket (120 degree)
	BB4	4 light bullhorn bracket (straight)
	BB4A	4 light bullhorn bracket (90 degree)

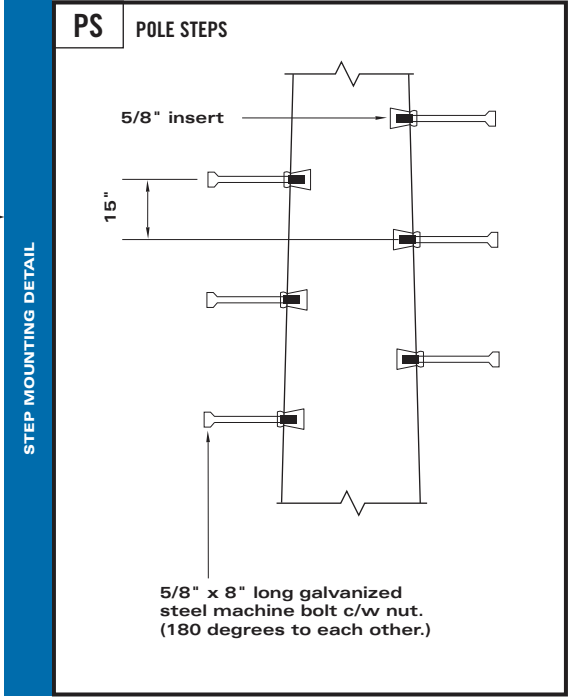
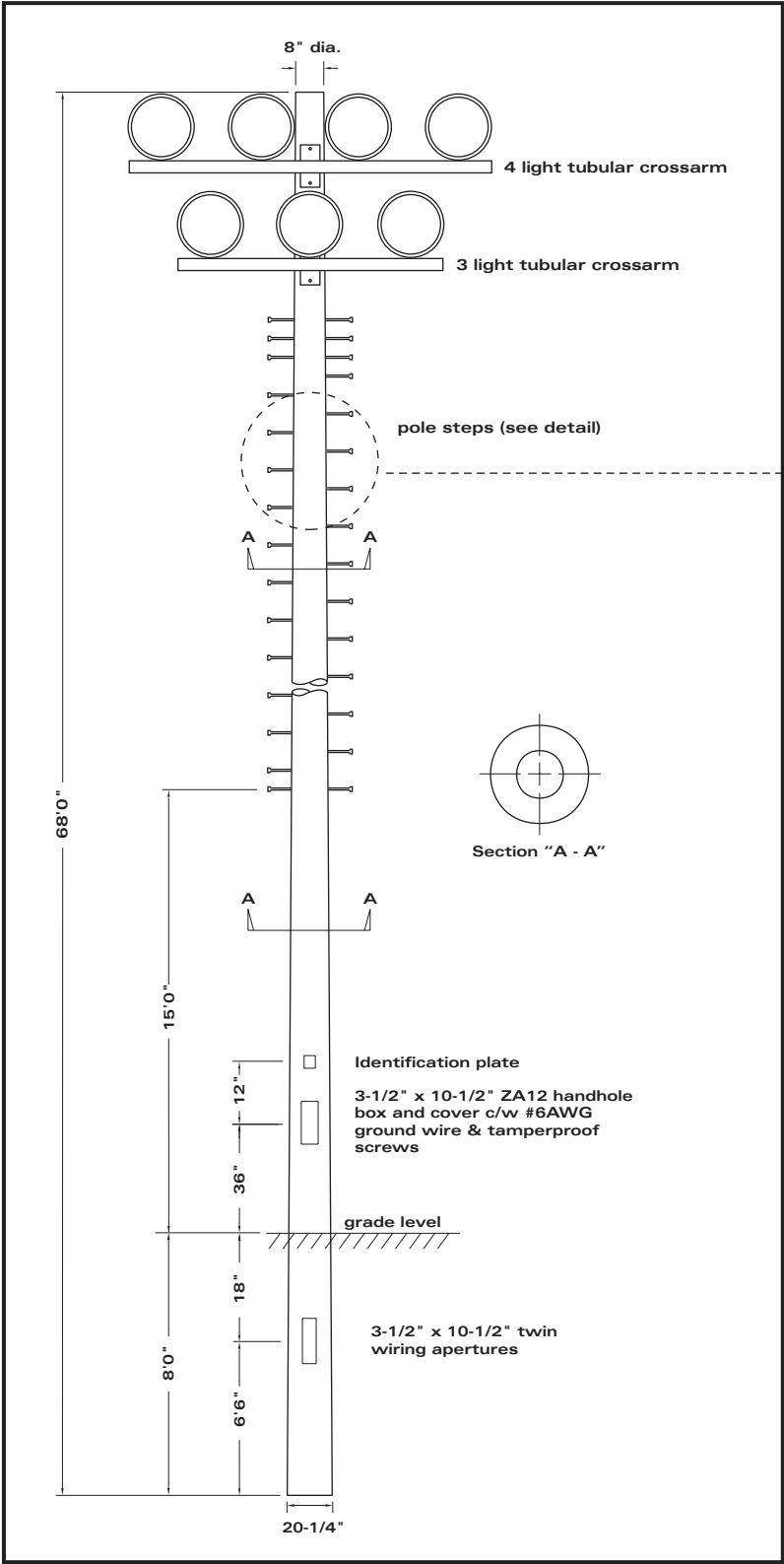
TYPICAL CATALOGUE NUMBER



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TYPICAL POLE ACCESSORIES

68' 0" CLASS "H" POLE



LENGTH VS STEPS	OVERALL POLE LENGTH		TOTAL NUMBER OF STEPS	
	41' 0"		16	
	46' 0"		20	
	52' 0"		24	
	57' 0"		28	
	63' 0"		32	
	68' 0"		36	
	74' 0"		40	
	79' 0"		44	

NOTES: This number of poles steps is approximate only, as the quantity will vary slightly depending on the configuration of the crossarm mount and burial depth of pole. This should be used as a guideline only.

CATALOGUE NUMBER FOR POLE SHOWN

HA

POLE STYLE
Hampton

-

680

OVERALL HEIGHT
(x10) 68'0"

-

H

CLASS
"H"

-

1

FINISH
Mold

-

PG

COLOUR
Plain Grey

-

USI

SUPPLY BY USI
Items c/w pole

-

(1) TC4

ACCESSORY
4 light tubular arm

-

(1) TC3

ACCESSORY
3 light tubular arm

-

PS

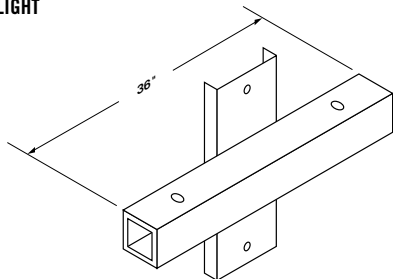
ACCESSORY
Pole steps

FLOODLIGHT CROSSARMS

TUBULAR CROSSARMS – 4" x 4" x 1/4" GALVANIZED STEEL

TC2

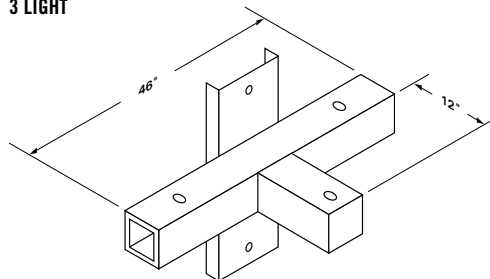
2 LIGHT



EPA: 1.0 ft² Wt: 50 lbs.

TC3

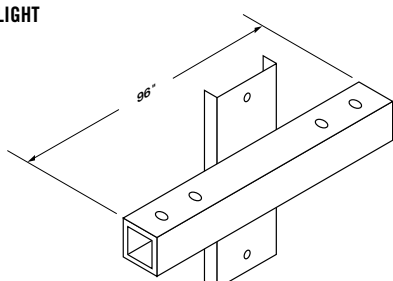
3 LIGHT



EPA: 1.3 ft² Wt: 70 lbs.

TC4

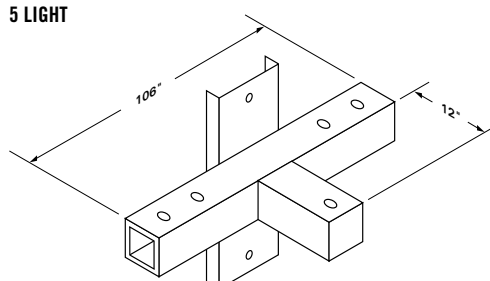
4 LIGHT



EPA: 2.7 ft² Wt: 110 lbs.

TC5

5 LIGHT

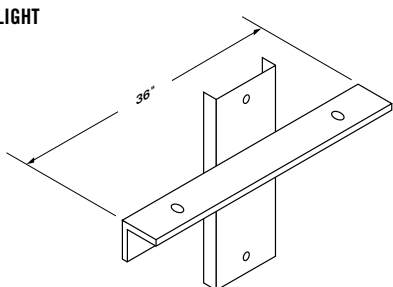


EPA: 3.0 ft² Wt: 130 lbs.

ANGLE IRON CROSSARMS – 4" x 4" x 1/4" GALVANIZED STEEL

AC2

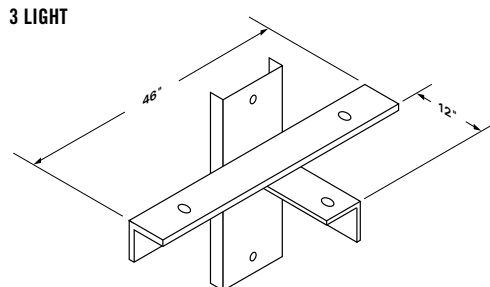
2 LIGHT



EPA: 1.0 ft² Wt: 30 lbs.

AC3

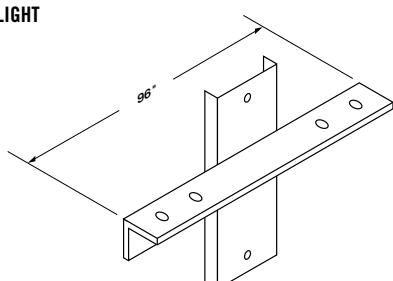
3 LIGHT



EPA: 1.3 ft² Wt: 40 lbs.

AC4

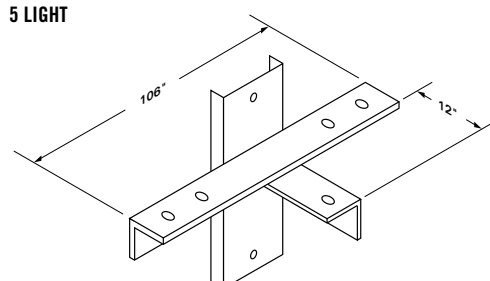
4 LIGHT



EPA: 2.7 ft² Wt: 65 lbs.

AC5

5 LIGHT



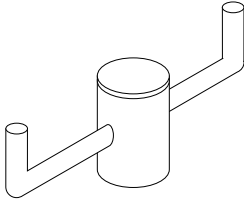
EPA: 3.0 ft² Wt: 75 lbs.

NOTE: All crossarms will be custom drilled to suit flood mount requirement.

BRACKETS & PLATFORMS

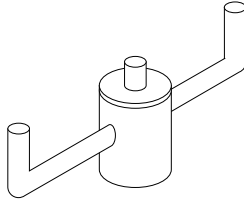
BULLHORN BRACKETS – 2 3/8" x 3" O.D. GALVANIZED STEEL

BB2 2 LIGHT



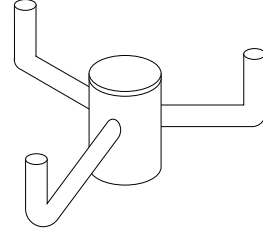
EPA: 1.0 ft² Wt: 22 lbs.

BB3 3 LIGHT



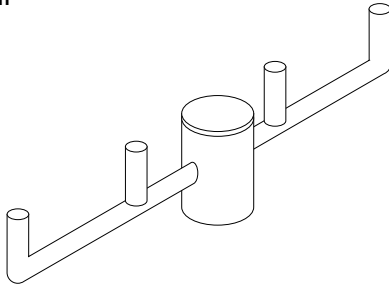
EPA: 1.2 ft² Wt: 35 lbs.

BB3A 3 LIGHT @ 120°



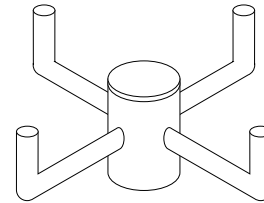
EPA: 1.8 ft² Wt: 40 lbs.

BB4 4 LIGHT



EPA: 1.6 ft² Wt: 47 lbs.

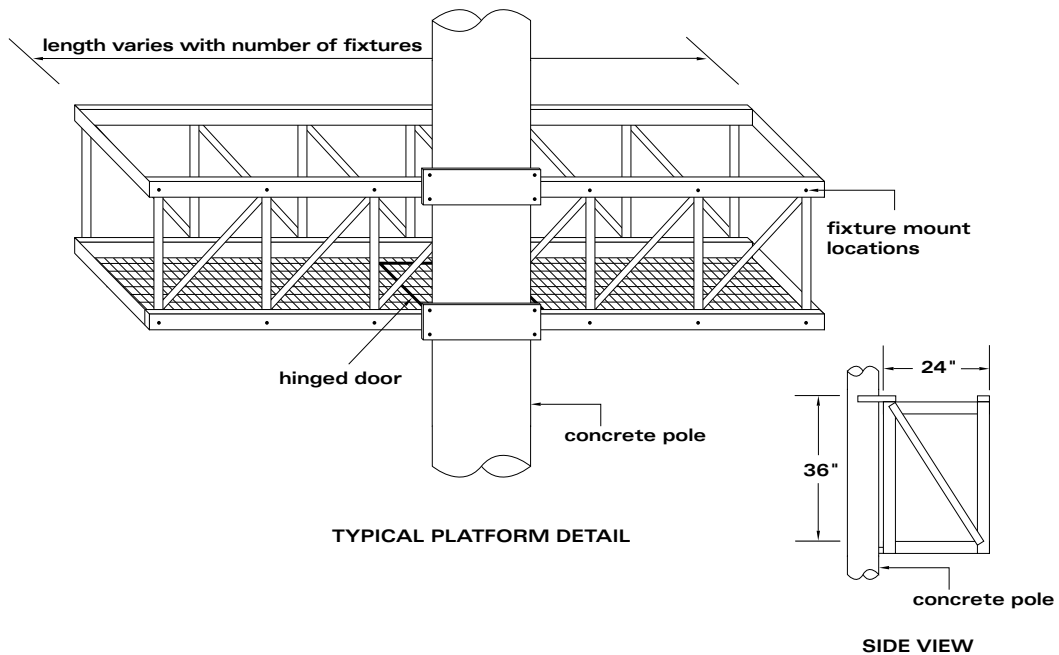
BB4A 4 LIGHT @ 90°

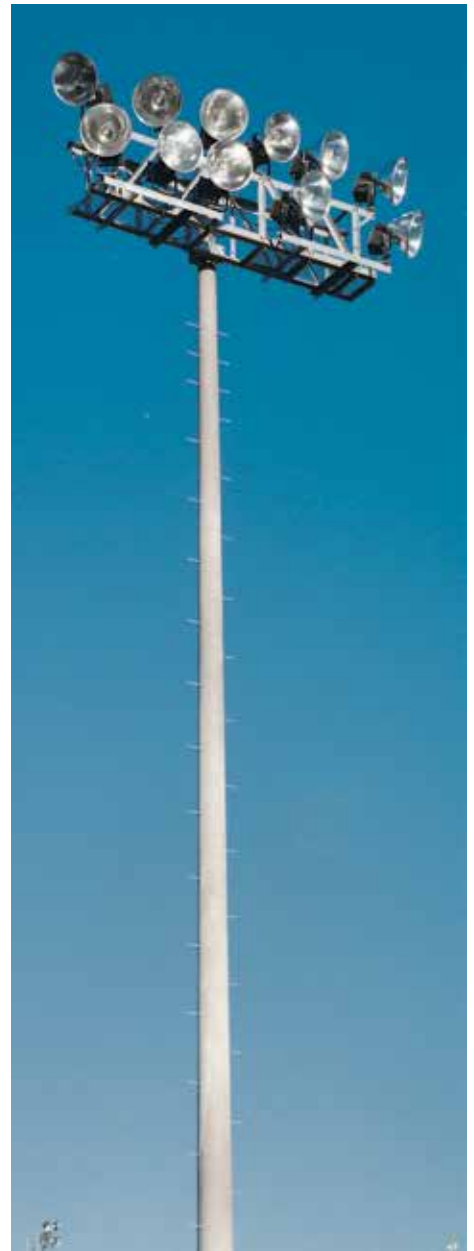


EPA: 2.5 ft² Wt: 50 lbs.

PLATFORMS – GALVANIZED STEEL

LP LIGHTING PLATFORM





SPORTSLIGHTING

CONCRETE POLES



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C O N C R E T E P O L E S



UTILITY STRUCTURES INC.

PRESTRESSED CONCRETE UTILITY POLES

CLASS OF POLE	MIN. ULT. TRANSVERSE LOAD (lb.)	EQUIVALENT WOOD POLE CLASS	POLE CATALOGUE NUMBER	OVERALL POLE LENGTH [ft.]	SUGGESTED BURIAL DEPTH [ft.]	POLE TIP DIA. [in.]	POLE BUTT DIA. [in.]	ULTIMATE GROUND LINE MOMENT [ft.lbs.]	NOMINAL POLE WEIGHT [lbs.]
C	1200	5	HA-250-C-1-PG-X	25' 0"	4' 6"	6 1/2"	11' 0"	22200	1515
			HA-300-C-1-PG-X	30' 0"	5' 0"	6 1/2"	11 7/8"	27600	1985
			HA-350-C-1-PG-X	35' 0"	5' 5"	6 1/2"	12 3/4"	33000	2535
			HA-400-C-1-PG-X	40' 0"	6' 0"	6 1/2"	13 11/16"	38400	3180
			HA-450-C-1-PG-X	45' 0"	6' 6"	6 1/2"	14 5/8"	43800	3925
D	1500	4	HA-300-D-1-PG-X	30' 0"	5' 0"	6 1/2"	11 7/8"	34500	2085
			HA-350-D-1-PG-X	35' 0"	5' 5"	6 1/2"	12 3/4"	41250	2635
			HA-400-D-1-PG-X	40' 0"	6' 0"	6 1/2"	13 11/16"	48000	3280
			HA-450-D-1-PG-X	45' 0"	6' 6"	6 1/2"	14 5/8"	54750	4025
			HA-500-D-1-PG-X	50' 0"	7' 0"	6 1/2"	15 1/2"	61500	4800
E	1900	3	HA-350-E-1-PG-X	35' 0"	5' 5"	6 1/2"	12 3/4"	52250	3135
			HA-400-E-1-PG-X	40' 0"	6' 0"	6 1/2"	13 11/16"	60800	3780
			HA-450-E-1-PG-X	45' 0"	6' 6"	6 1/2"	14 5/8"	69350	4525
			HA-500-E-1-PG-X	50' 0"	7' 0"	6 1/2"	15 1/2"	77900	5200
			HA-550-E-1-PG-X	55' 0"	7' 6"	6 1/2"	16 3/8"	86450	5690
F	2400	2	HA-400-F-1-PG-X	40' 0"	6' 0"	6 1/2"	13 11/16"	76800	4030
			HA-450-F-1-PG-X	45' 0"	6' 6"	6 1/2"	14 5/8"	87600	4775
			HA-500-F-1-PG-X	50' 0"	7' 0"	6 1/2"	15 1/2"	98400	5450
			HA-550-F-1-PG-X	55' 0"	7' 6"	6 1/2"	16 3/8"	109200	5940
			HA-600-F-1-PG-X	60' 0"	8' 0"	6 1/2"	17 1/4"	120000	6775
			HA-650-F-1-PG-X	65' 0"	8' 6"	6 1/2"	18 3/16"	130800	7990
G	3000	1	HA-450-G-1-PG-X	45' 0"	6' 6"	8"	16 1/8"	109500	5090
			HA-500-G-1-PG-X	50' 0"	7' 0"	8"	17"	123000	6100
			HA-550-G-1-PG-X	55' 0"	7' 6"	8"	17 7/8"	136500	7200
			HA-600-G-1-PG-X	60' 0"	8' 0"	8"	18 3/4"	150000	8430
			HA-650-G-1-PG-X	65' 0"	8' 6"	8"	19 5/8"	163500	9785
			HA-700-G-1-PG-X	70' 0"	9' 0"	8"	20 1/2"	177000	11280
			HA-750-G-1-PG-X	75' 0"	9' 6"	8"	19 3/4" *	190500	11480
H	3700	H1	HA-500-H-1-PG-X	50' 0"	7' 0"	8"	17"	151700	6190
			HA-550-H-1-PG-X	55' 0"	7' 6"	8"	17 7/8"	168350	7325
			HA-600-H-1-PG-X	60' 0"	8' 0"	8"	18 3/4"	185000	8300
			HA-650-H-1-PG-X	65' 0"	8' 6"	8"	19 5/8"	201650	9855
			HA-700-H-1-PG-X	70' 0"	9' 0"	8"	20 1/2"	218300	11360
			HA-750-H-1-PG-X	75' 0"	9' 6"	8"	19 3/4" *	234950	11680
			HA-800-H-1-PG-X	80' 0"	10' 0"	8"	20 1/2" *	251600	12550
J	4500	H2	HA-600-J-1-PG-X	60' 0"	8' 0"	8"	18 3/4"	225000	8650
			HA-650-J-1-PG-X	65' 0"	8' 6"	8"	19 5/8"	245250	10000
			HA-700-J-1-PG-X	70' 0"	9' 0"	8"	20 1/2"	265500	11510
			HA-750-J-1-PG-X	75' 0"	9' 6"	8"	19 3/4" *	285750	11780
			HA-800-J-1-PG-X	80' 0"	10' 0"	8"	20 1/2" *	306000	12700
K	5400	H3	HA-600-K-1-PG-X	60' 0"	8' 0"	9 1/2"	20 1/4"	270000	10350
			HA-650-K-1-PG-X	65' 0"	8' 6"	9 1/2"	19 5/8" *	294300	10550
			HA-700-K-1-PG-X	70' 0"	9' 0"	9 1/2"	20 3/8" *	318600	11850
L	6400	H4	HA-600-L-1-PG-X	60' 0"	8' 0"	10 1/4"	19 5/8" *	320000	10500
			HA-650-L-1-PG-X	65' 0"	8' 6"	10 1/4"	20 3/8" *	348800	10700
			HA-700-L-1-PG-X	70' 0"	9' 0"	10 1/4"	21 1/8" *	377600	12840

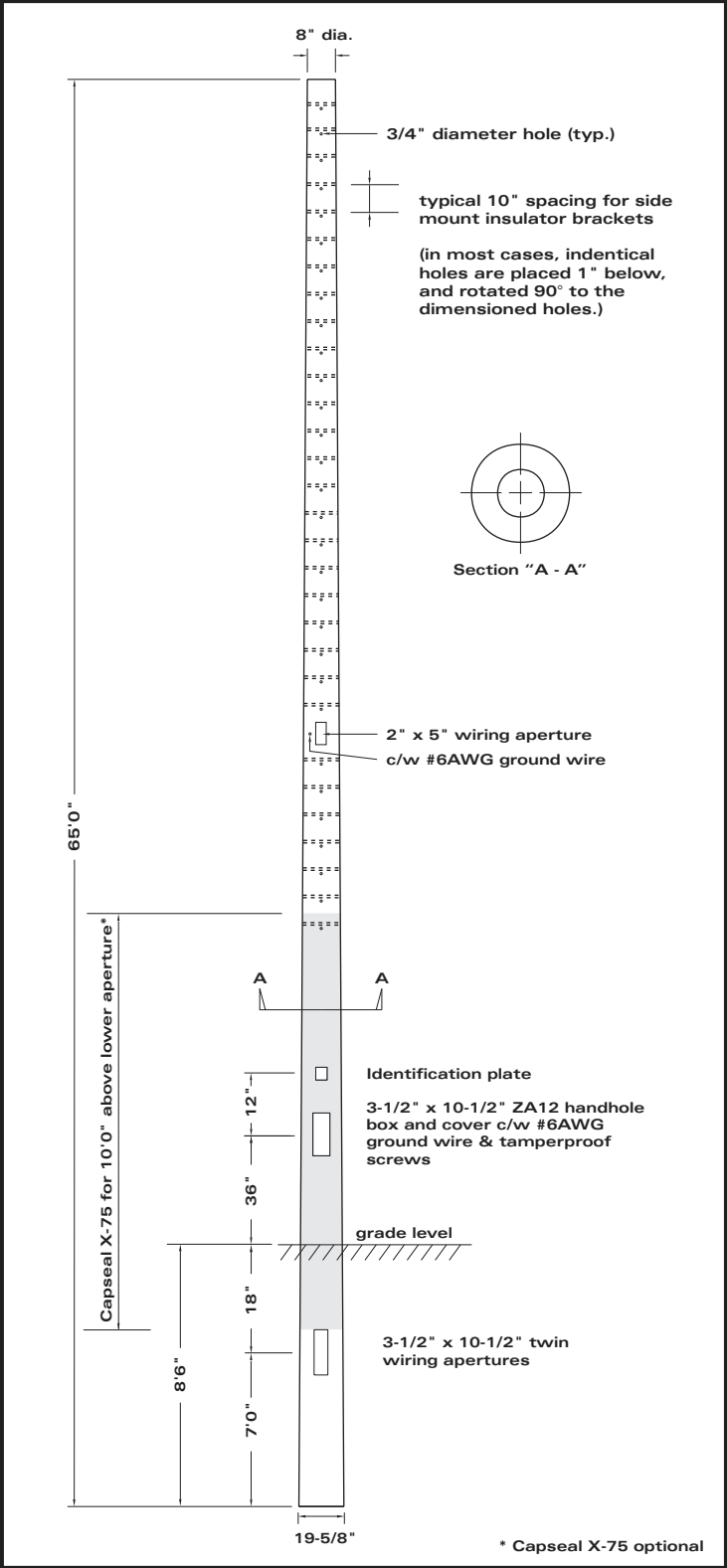
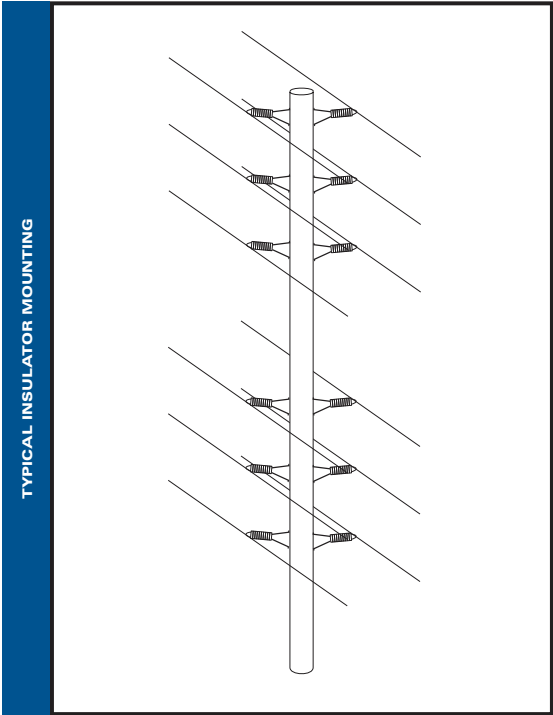
NOTES: This chart outlines typical heights and class of poles. Other sizes are available upon request. Ultimate ground line moment is calculated as follows: Height above grade minus 2 ft. times transverse bending strength.
Pole tip diameters indicated with an asterisk (*) have a taper of 13mm/m. Standard taper on all other poles is 15mm/m.



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TYPICAL DISTRIBUTION POLE DETAILS

65' 0" CLASS "H" POLE



TYPICAL CATALOGUE NUMBER

HA	-	650	-	H	-	1	-	PG	-	X
POLE STYLE Hampton		OVERALL HEIGHT (x10) 65'0"		CLASS "H"		FINISH Mold		COLOUR Plain Grey		OPTION Silane Sealer

UTILITY POLES

FEATURES

Utility poles are grey, tapered, round prestressed spun concrete. The Hampton Series pole is the style utilized for distribution and transmission purposes.

This specification is intended to outline the requirement of CSA A.14-07, as they pertain to prestressed concrete distribution and utility poles.

Poles are manufactured in accordance with CSA A.14-07, as well as those amendments which are specified by the clients.

Poles are designed in accordance with CSA Standard CAN3-A23.3M1984, Code for Design of Concrete Structures for Buildings. The poles are tested to confirm these designs for both bending and torsional resistance.

Utility poles have a provision for grounding which consists of either a stranded jumper copper wire (size and length specified by the client) or an insert and ground connector. Both grounding systems are connected to the continuous ground bar (embedded in the concrete) with CSA specifications. C22.2 No 0-M - General Requirements - Canadian Electrical Code, Part II, C22.2 No 0.4-M - Bonding and Grounding of Electrical Equipment (Protective Grounding), and C22.2 No 206-M - Lighting Poles.

The pole strengths are defined by the classes listed in the accompanying table. Poles for which no specific

mounting instructions are given, may be assumed, for design and testing purposes, to be clamped at the butt over a length equal to 10 per cent of the length of the pole, plus 2 feet. When a pole is mounted in accordance with this recommendation, it shall be capable of sustaining a transverse ultimate load (applied at two feet from the tip of the pole) equal to or greater than the value shown in the table. The same parameters applied for the axial ultimate torque.

The pole design and selection process involves determining the load magnitudes and locations for the given pole height. The classes of the poles specify the minimum ultimate transverse load the pole must withstand. The loads are tabulated and ground line moment is calculated. If the client has the pole pre-engineered, we simply classify the pole by the letter designation. Alternatively, if the pole has not been designed and the client is unaware of it's strength classification, we will assist the client with design, and determine the strength classification for them.

Traditionally utilities have utilized wood poles for their systems. The poles were readily available and were inexpensive. Many of these existing wooden utility poles are aging, and the utilities are choosing to replace them with concrete poles because of their performance and durability. The accompanying table provides a useful comparison of the classes of wood versus concrete to assist in your selection.

SPECIAL FEATURES

- Long maintenance free life span.
- Resistance to insects, fire, woodpeckers, rot, and corrosion.
- Low cost direct burial design.
- Pleasing color and lines.
- Variety of sizes and strengths (class).
- Manufactured product with consistent quality and strengths.
- Hollow raceway for internal wiring and components.
- Factory made raceways, handholes, wiring apertures, and bolt holes.
- Extremely rigid product with low vibration.
- 10 year limited warranty on product.



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BWA - WASHINGTON LIGHTING BOLLARD

LIGHTING BOLLARDS

C O N C R E T E B O L L A R D S



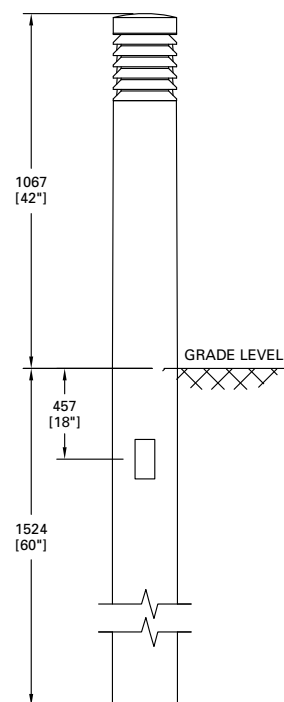
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THE HAMPTON LIGHTING BOLLARD



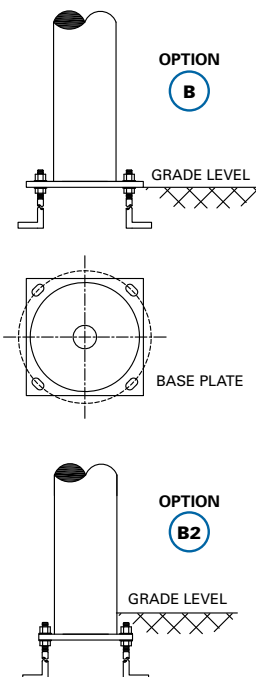
BHA-042-3-AJ-AR-HPS-120V

TYPICAL BOLLARD DETAIL



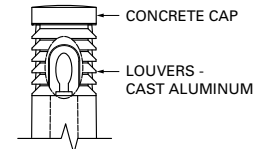
INSTALLATION OPTIONS

Direct buried is standard.

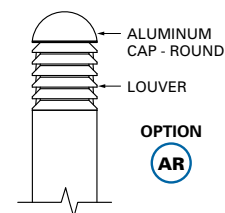


CAP DETAIL

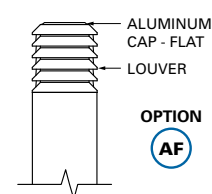
Concrete cap is standard.



CAP DETAIL (OPTION)



CAP DETAIL (OPTION)



EXAMPLE OF TYPICAL CATALOG NUMBER

Select options as required.

BHA - **042** - **3** - **AJ** - **B** - **S1**

BOLLARD STYLE
Hampton Bollard

ABOVE GRADE
(inches) 42"

FINISH
Etched

COLOUR
Aztec Jade

OPTION
Base Plate - Flush with Bolt Exposed

OPTION
Base Shroud - Round

Select BOLLARD STYLE

USI concrete bollards are available in 4 different styles.

CODE	DESCRIPTION
BHA	Hampton Bollard
BMA	Madison Bollard
BST	Stratford Bollard
BWA	Washington Bollard

Select SURFACE FINISH

USI concrete bollards are available with 2 types of surface finishes.

CODE	DESCRIPTION
N/A	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

Our bollards are available in all 12 colours. Please visit our Colours & Finishes section for complete information.

CODE	DESCRIPTION
AJ	Aztec Jade
BE	Black Eclipse
DB	Dark Bronze
SP	Salt & Pepper

Select OPTIONS

The Hampton bollard has 6 standard options to choose from.

CODE	DESCRIPTION
B	Base Plate - Flush with Bolts Exposed
B2	Base Plate - Below Grade Stub
AR	Aluminum Cap - Round
AF	Aluminum Cap - Flat
R	GFI Receptacle
S1	Base Shroud - Round

LAMPING OPTIONS

CODE	DESCRIPTION
HPS	High Pressure Sodium
MH	Metal Halide
LED	LED

ELECTRICAL OPTIONS

CODE	DESCRIPTION
120V	120 volts
277V	277 volts
347V	347 volts

Note: Consult USI for additional voltages.



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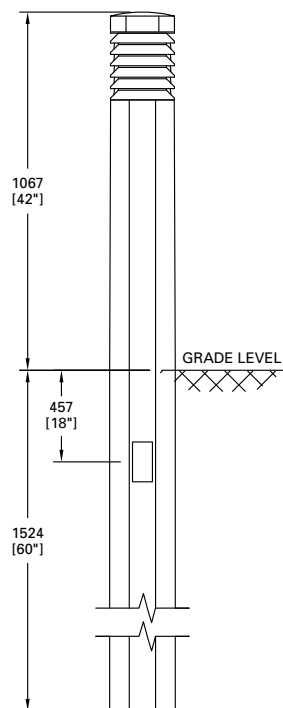


THE MADISON LIGHTING BOLLARD



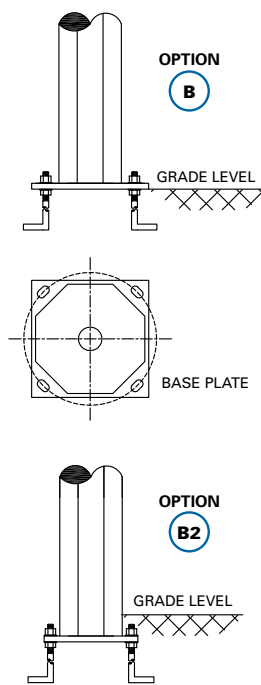
BMA-042-2-DB-AR-MH-277V

TYPICAL BOLLARD DETAIL



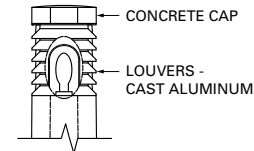
INSTALLATION OPTIONS

Direct buried is standard.

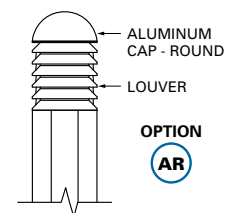


CAP DETAIL

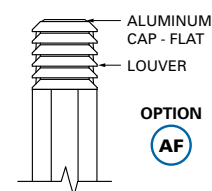
Concrete cap is standard.



CAP DETAIL (OPTION)



CAP DETAIL (OPTION)



EXAMPLE OF TYPICAL CATALOG NUMBER

Select options as required.

BMA - **042** - **2** - **DB** - **B** - **AR**

BOLLARD STYLE
Madison Bollard

ABOVE GRADE
(inches) 42"

FINISH
Polished

COLOUR
Dark Bronze

OPTION
Base Plate - Flush with Bolt Exposed

OPTION
Aluminum Cap - Round

Select BOLLARD STYLE

USI concrete bollards are available in 4 different styles.

CODE	DESCRIPTION
BHA	Hampton Bollard
BMA	Madison Bollard
BST	Stratford Bollard
BWA	Washington Bollard

Select SURFACE FINISH

USI concrete bollards are available with 3 types of surface finishes.

CODE	DESCRIPTION
2	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

Our bollards are available in all 12 colours. Please visit our Colours & Finishes section for complete information.

CODE	DESCRIPTION
AJ	Aztec Jade
BE	Black Eclipse
DB	Dark Bronze
SP	Salt & Pepper

Select OPTIONS

The Madison bollard has 6 standard options to choose from.

CODE	DESCRIPTION
B	Base Plate - Flush with Bolts Exposed
B2	Base Plate - Below Grade Stub
AR	Aluminum Cap - Round
AF	Aluminum Cap - Flat
R	GFI Receptacle
S1	Base Shroud - Round

LAMPING OPTIONS

CODE	DESCRIPTION
HPS	High Pressure Sodium
MH	Metal Halide
LED	LED

ELECTRICAL OPTIONS

CODE	DESCRIPTION
120V	120 volts
277V	277 volts
347V	347 volts

Note: Consult USI for additional voltages.



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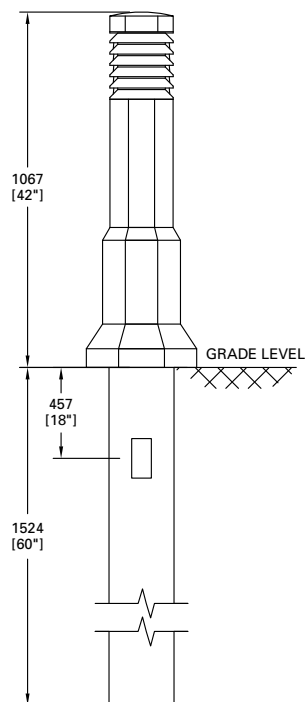


THE STRATFORD LIGHTING BOLLARD



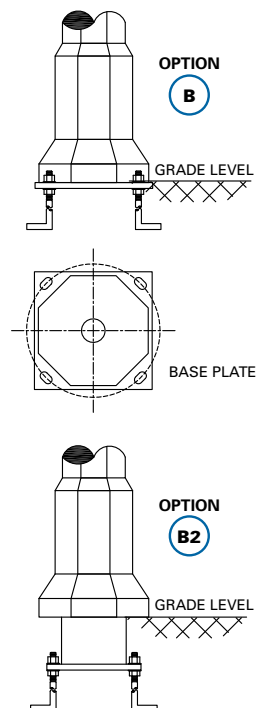
BST-042-2-AJ-MH-120V

TYPICAL BOLLARD DETAIL



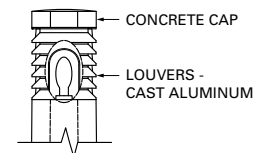
INSTALLATION OPTIONS

Direct buried is standard.

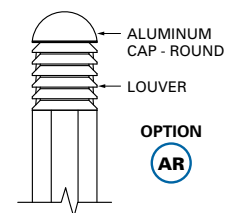


CAP DETAIL

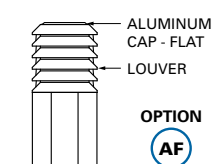
Concrete cap is standard.



CAP DETAIL (OPTION)



CAP DETAIL (OPTION)



EXAMPLE OF TYPICAL CATALOG NUMBER

Select options as required.

BST - **042** - **2** - **AJ** - **B** - **AR**

BOLLARD STYLE
Stratford Bollard

ABOVE GRADE
(inches) 42"

FINISH
Polished

COLOUR
Aztec Jade

OPTION
Base Plate - Flush with Bolt Exposed

OPTION
Aluminum Cap - Round

Select BOLLARD STYLE

USI concrete bollards are available in 4 different styles.

CODE	DESCRIPTION
BHA	Hampton Bollard
BMA	Madison Bollard
BST	Stratford Bollard
BWA	Washington Bollard

Select SURFACE FINISH

USI concrete bollards are available with 3 types of surface finishes.

CODE	DESCRIPTION
2	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

Our bollards are available in all 12 colours. Please visit our Colours & Finishes section for complete information.

CODE	DESCRIPTION
AJ	Aztec Jade
BE	Black Eclipse
DB	Dark Bronze
SP	Salt & Pepper

Select OPTIONS

The Stratford bollard has 5 standard options to choose from.

CODE	DESCRIPTION
B	Base Plate - Flush with Bolts Exposed
B2	Base Plate - Below Grade Stub
AR	Aluminum Cap - Round
AF	Aluminum Cap - Flat
R	GFI Receptacle

LAMPING OPTIONS

CODE	DESCRIPTION
HPS	High Pressure Sodium
MH	Metal Halide
LED	LED

ELECTRICAL OPTIONS

CODE	DESCRIPTION
120V	120 volts
277V	277 volts
347V	347 volts

Note: Consult USI for additional voltages.



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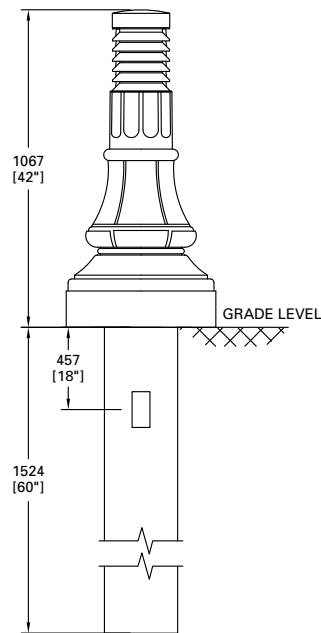


THE WASHINGTON LIGHTING BOLLARD



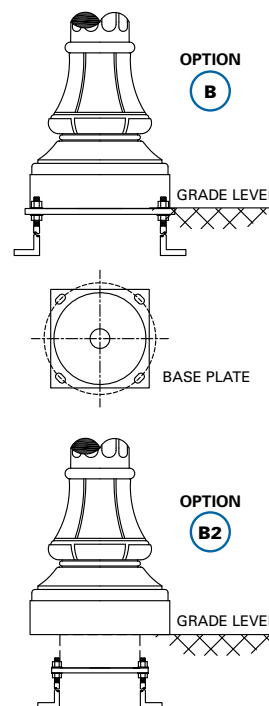
BWA-042-3-BE-LED

TYPICAL BOLLARD DETAIL



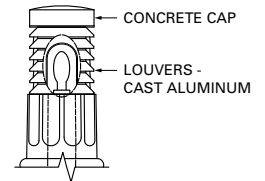
INSTALLATION OPTIONS

Direct buried is standard.

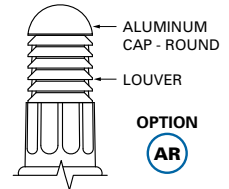


CAP DETAIL

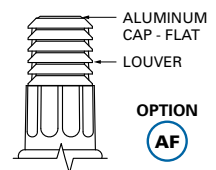
Concrete cap is standard.



CAP DETAIL (OPTION)



CAP DETAIL (OPTION)



EXAMPLE OF TYPICAL CATALOG NUMBER

Select options as required.

BWA - **042** - **3** - **BE** - **B2** - **AR**

BOLLARD STYLE
Washington Bollard

ABOVE GRADE
(inches) 42"

FINISH
Etched

COLOUR
Black Eclipse

OPTION
Base Plate - Below Grade Stub

OPTION
Aluminum Cap - Round

Select BOLLARD STYLE

USI concrete bollards are available in 4 different styles.

CODE	DESCRIPTION
BHA	Hampton Bollard
BMA	Madison Bollard
BST	Stratford Bollard
BWA	Washington Bollard

Select SURFACE FINISH

USI concrete bollards are available with 2 types of surface finishes.

CODE	DESCRIPTION
N/A	Polished finish
3	Etched finish
4	Exposed finish

Select COLOUR

Our bollards are available in all 12 colours. Please visit our Colours & Finishes section for complete information.

CODE	DESCRIPTION
AJ	Aztec Jade
BE	Black Eclipse
DB	Dark Bronze
SP	Salt & Pepper

Select OPTIONS

The Washington bollard has 5 standard options to choose from.

CODE	DESCRIPTION
B	Base Plate - Flush with Bolts Exposed
B2	Base Plate - Below Grade Stub
AR	Aluminum Cap - Round
AF	Aluminum Cap - Flat
R	GFI Receptacle

LAMPING OPTIONS

CODE	DESCRIPTION
HPS	High Pressure Sodium
MH	Metal Halide
LED	LED

ELECTRICAL OPTIONS

CODE	DESCRIPTION
120V	120 volts
277V	277 volts
347V	347 volts

Note: Consult USI for additional voltages.



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BHA - HAMPTON LIGHTING BOLLARD



BMA - MADISON LIGHTING BOLLARD



BHA - HAMPTON LIGHTING BOLLARD

USI LIGHTING BOLLARDS

Our decorative bollards facilitate traffic control and can complement the aesthetics of almost any landscape.

- Available in a variety of cross sections.
- Available in direct buried or base mounted.
- Available in a variety of colours and finishes.
- Applications include security and architectural uses.
- Will accept a variety of luminaire mounting styles.



BST - SRATFORD LIGHTING BOLLARD



BHA - HAMPTON LIGHTING BOLLARD

LIGHTING BOLLARDS

CONCRETE BOLLARDS



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SPECIALTY POLES

C O N C R E T E P O L E S



UTILITY STRUCTURES INC.



TELECOMMUNICATIONS



SECURITY



COMMUNICATIONS



WINDMILLS

USI SPECIALTY POLES

We can manufacture any style of pole to your specifications. Applications for our specialty poles include surveillance poles, communication bases, and camera lowering devices.

- Available in a variety of cross sections.
- Available in direct buried or base mounted.
- Standard mold, etched, exposed finishes are available in a variety of colours.
- Applications include telecommunication, security, communication and windmill.
- Will accept a variety of fixture mount styles.



PARK LIGHTING



SURVEILLANCE

SPECIALTY POLES

CONCRETE POLES



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TECHNICAL INFORMATION

U S I C O N C R E T E P O L E S



UTILITY STRUCTURES INC.

THE BENEFITS OF CONCRETE

WHY SPUN CONCRETE POLES?

Unlike conventional cast poles, prestressed spun concrete poles are centrifugally cast. This process involves spinning the poles at a very high rpm, which produces poles with the highest density and strength to weight ratio of any concrete available. As a result they are more durable; longer lasting and resistant to freeze/thaw cycles and chemical agents.

All our concrete poles are prestressed with high-tensile steel that is stretched before the concrete is cast, then released to maintain concrete compression. Prestressing greatly increases both the strength and resilience of the pole, providing far greater longevity than non-prestressed concrete poles.

In addition, the centrifugal (spinning) process creates a smooth, hollow raceway, tunnel inside the pole. This allows for internal routing of electrical cables.



CONSIDER THE ADVANTAGES

- Cost effective direct buried design
- Long maintenance free life span
- Variety of heights and classes
- Minimal vibration and deflection
- Resistant to corrosion
- High resistance to sulfate attack
- Environmentally friendly
- Variety of colours and finishes
- Resistant to rot, fire, and insects
- Hollow internal raceway



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DESIGN

Our prestressed spun concrete poles meet design criteria of the latest revisions of CSA A14 and ASTM C1089 standards. We are also an accredited CSA A23.1 certified precast plant.

MATERIALS

Cement

Shall be high early (HE) strength and shall meet all physical requirements of CSA Standard A23.1.

Reinforcing and Stressing Strands

Deformed reinforcing bars shall conform shall conform to CSA G30.12 and ASTM A615. Prestressing steel reinforcement shall conform to CSA G279 and ASTM A416. Helical reinforcing wire shall conform to ASTM A82. Galvanized or epoxy coated rebar is available upon request.

Aggregates

Coarse and fine aggregates shall meet all physical requirements of CSA standard A23.1. Aggregates shall be washed to achieve optimum quality.

Admixtures

Air entrainment, water reducers, corrosion inhibitors and accelerators shall conform to CSA A23.1. Air entrainment shall be used to produce 5-8% air content in the mix, which will improve the resistance to freeze/thaw.

Water

Shall be clear and free of any acid, alkali, sediment or organic matter.

Hardware

All Hardware and accessories shall be plated, hot dipped galvanized or stainless steel. Handhole frames & covers shall be manufactured using a high density zinc alloy.

All hardware such as inserts, fasteners, crossarms, pole steps, fin caps, and base plates shall be plated, hot dipped galvanized or stainless steel.

Pole Tops

All pole tops will be equipped with a weatherproof cap, except those with a tenon top or optional fin cap.



INSTALLATION

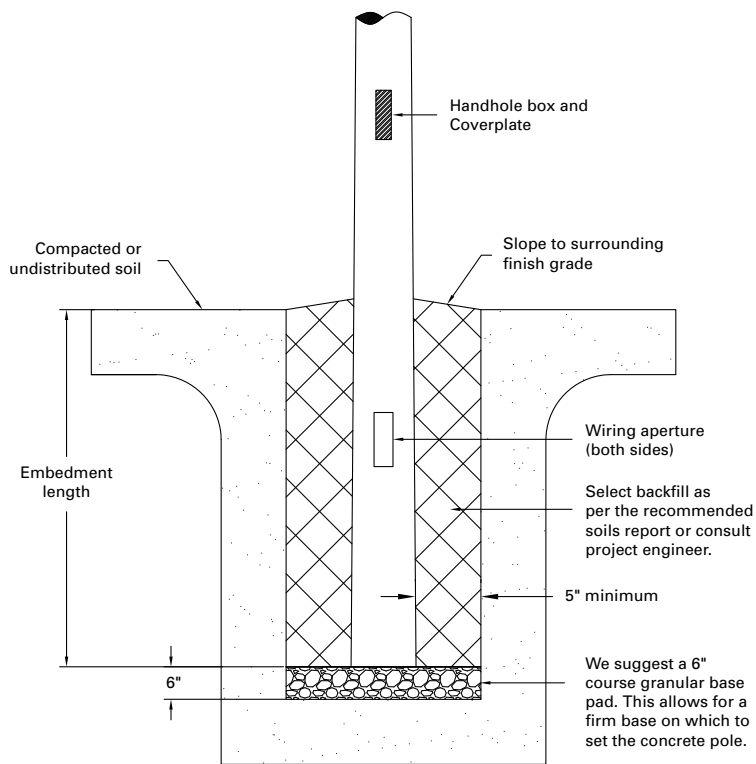
DIRECT EMBEDMENT

Simple and cost effective! The most common method and biggest advantage for installing a concrete pole is by direct embedment. The pole is placed into an augured hole lined with gravel then back filled with native soils, stone dust or cement. Depending on the soil conditions.

Advantages of direct embedment:

- **Monetary** – Eliminates the need for a costly anchor pole base footing.
- **Time Savings** – Faster installation, allowing more poles to be installed.
- **Simple** – No reliance on weather, form work, or pouring schedules.
- **Appearance** – No exposed base plates, or anchors bolts.
- **Engineered** – The pole and footing are continuous, forming a stronger structure.
- **Environmental** – Does not contaminate the soil, unlike direct buried wood poles which contain chemical treatments.
- **Landscaping** – Whether it be grass, concrete or asphalt, the surrounding ground is finished right up to the pole.
- **Maintenance free** – Can be placed into the ground without the fear of rust or rot.

Typical Burial Details



Embedment Length:

The embedment length is generally 10% of pole plus two feet. Poles in poor or questionable soils or poles with highly imbalanced loads require special design considerations. Consult your project engineer.

Installation Guidelines

Calculating the Depth of the Pole

Poles are typically set into the ground: 10% of the overall height + 2 feet, except in questionable soil conditions.

Example: Overall pole height: 30 feet, the pole should be buried: 3 feet + 2 feet = 5 feet below grade, and 25 feet above grade.

Note: always consult an engineer and review the soils report.

Calculating the Diameter and the Length of the Hole

Auger hole minimum 10 inches larger than the butt diameter of the pole, and an extra 6 inches deeper than the depth requirement.

Example: Overall pole height is: 35 feet and butt diameter is 14 inches, auger the hole Min: 24 inches in diameter and the depth 6 feet.

Depth Calculation:

35 feet X 10% = 3 feet, 6 inches
plus 2 feet = 5 feet, 6 inches
plus 6 inches for GA base =
a total of 6 feet of augured depth



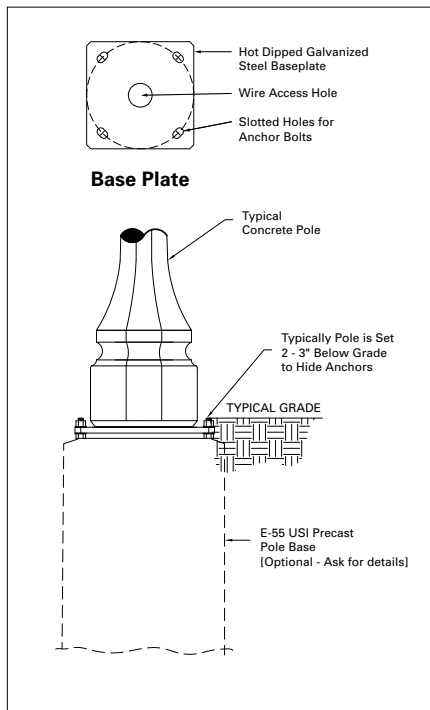
INSTALLATION

OTHER INSTALLATION METHODS

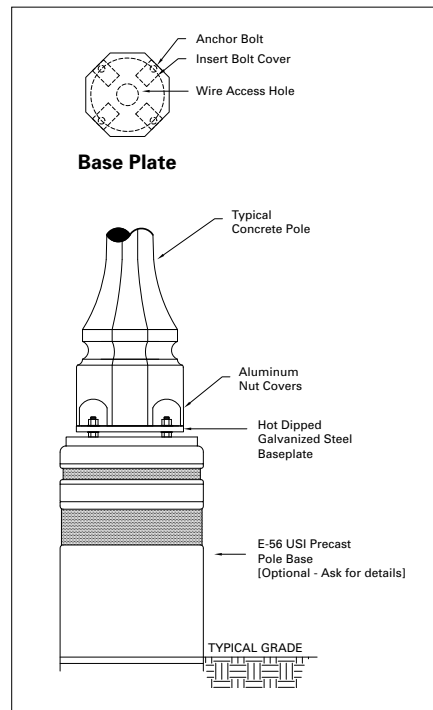
The simple direct embedment method may not be suitable for all applications. When poles are in unstable soil conditions, or with large or unbalanced loads, either an engineered base or special backfill (i.e. concrete) may be required. USI can also supply concrete poles for either the Base Plate or Socket Mounting methods.

BASE PLATE MOUNTING

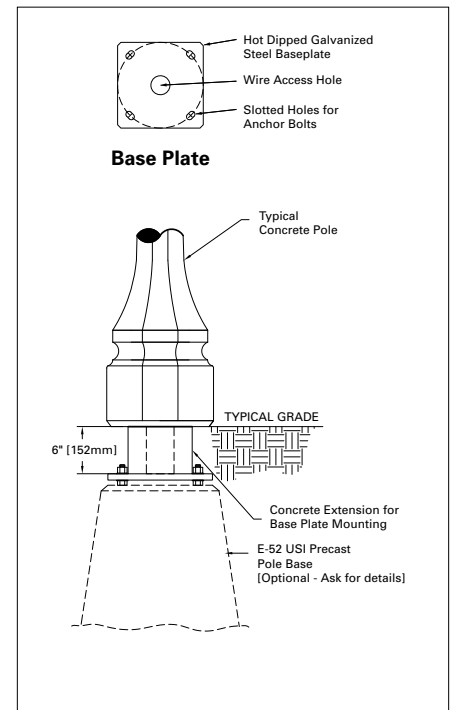
OPTION B: Base Plate – Flush with Bolts Exposed



OPTION B1: Base Plate – Hidden Bolt Pockets

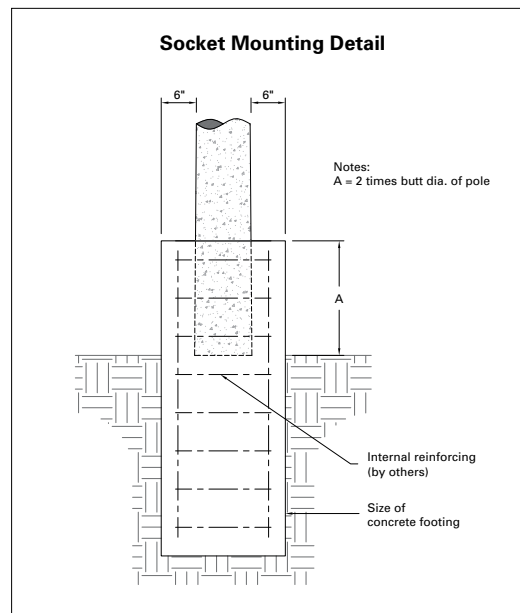


OPTION B2: Base Plate – Below Grade Stub



SOCKET MOUNTING

Socket Mounting may be installed flush to grade or poured at a desired height to act as extra protection from impact.



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MOLDS

Only steel molds shall be used, with dimensions and cross sections as shown in our product catalogue. The reinforcing steel cage shall be centered and positioned in the mold by means of plastic spacers, to ensure a minimum concrete coverage of $\frac{3}{4}$ ". The prestressing steel shall be stressed to a maximum of 70% of its ultimate capacity.

CONCRETE

The minimum 28-day cylinder strength for concrete used in poles shall be 50 MPa (7250 psi) for standard grey structural concrete, and 45 MPa (6525 psi) for architectural decorative concrete. The compressive strength of concrete mixes shall be established in accordance with CAN/CSA-A23.2-9C.

CENTRIFUGAL SPINNING PROCESS

The entire steel mold shall be spun utilizing the "Vibraspun" process, which is a four stage vibration spinning cycle. The length of time and speed required will vary based on the style of concrete pole.



STORAGE AND HANDLING

USI spun poles are made of high strength prestressed concrete, making them extremely durable and flexible. USI spun concrete poles are designed to withstand specific service loads and handling loads – with safety factors considered. But storage and handling practices are easily overlooked. Attention to the following details can help minimize damage.



STORAGE

1. Always store concrete poles on wood, ideally 2 x 6 hardwood, or similar wood which is finished enough to have opposite sides flat and parallel (no logs or branches). Never stack poles without proper spacing, a sufficient thickness should allow the placing of slings in between layers.
2. The location of wood supports shall be placed 1/5 of the total length from each end. Minimum two wood supports for poles under 30 feet, and min. three (3) wood supports for poles over 30 feet.
3. When poles are stored in more than one layer, each piece of wood support must be placed one above the other, so that the weight of the poles above is transmitted directly downward through each wood support and does not induce bending stresses on the poles.
4. Store on a level surface. If the surface is not level, place extra supports to offset and balance the load properly.
5. Place wedges on each of the wood supports, on round poles only, to prevent them from rolling.
6. Poles should be aligned on top of each other to form a straight line.

HANDLING

1. We only recommend nylon slings when handling concrete poles.
2. In lifting the pole from a single pick-up point, use either a choker sling or a loop sling with one complete extra turn around the pole just above the balance point.
3. We recommend using two pick-up points for poles over 40 feet, and choker-type attachment should be used on the pole.



CROSS SECTIONS

CROSS SECTIONS

USI concrete poles are available with four (4) basic cross sections. The cross sections available are round, octagonal, square, and fluted. Shown below are the cross sections and the pole styles associated with each.

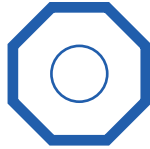
ROUND



POLE STYLES

The Hampton Series
The Rockcliffe Series
The Newport Series
The Edinburgh Series

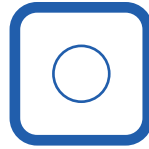
OCTAGONAL



POLE STYLES

The Madison Series
The Cambridge Series
The Stratford Series
The Westmount Series
The Parkdale Series

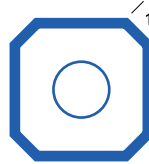
SQUARE



ROUNDED
EDGE

POLE STYLES

The Oxford Series



1"
CHAMFERED
CORNERS

POLE STYLES

The Thompson Series

FLUTED



EIGHT FLUTED

POLE STYLES

The Grandview Series
The Astoria Series
The Victorian Series



TEN FLUTED

POLE STYLES

The Washington Series



THE HAMPTON SERIES



THE MADISON SERIES



THE THOMPSON SERIES



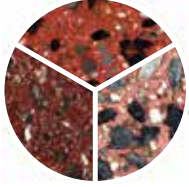
THE GRANDVIEW SERIES



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COLOURS AND FINISHES

COLOURS



Autumn Red
COLOUR CODE: AR



Aztec Jade
COLOUR CODE: AJ



Black Eclipse
COLOUR CODE: BE



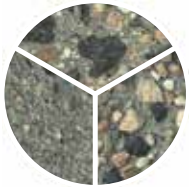
Dark Bronze
COLOUR CODE: DB



Desert Rose
COLOUR CODE: DR



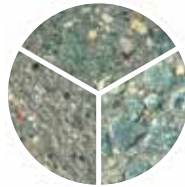
Desert Sand
COLOUR CODE: DS



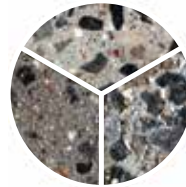
Midnight Lace
COLOUR CODE: ML



Natural Grey
COLOUR CODE: NG



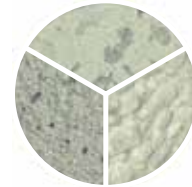
Oriental Jade
COLOUR CODE: OJ



Salt & Pepper
COLOUR CODE: SP



Seluki Bronze
COLOUR CODE: SB



Venetian White
COLOUR CODE: VW

FINISHES

The decorative pole finish is not a veneer or a painted finish. The entire concrete matrix is a combination of specialty decorative colored aggregates, pigments, and cement. The entire pole is spun cast with this concrete mix. The combination of various concrete mix designs and surface finishes provides the client with over 36 standard finishes (custom colours available upon request) to choose from.

Below are USI's three (3) finish types:

Polished Finish

FINISH CODE: 2

This surface finish is accomplished by polishing the face of the concrete pole by mechanical means. Diamond polishing discs work the surface to an ultra smooth finish. After polishing the face of the pole, a minimum of two coats of clear sealer are applied to further enhance the natural beauty of the stone.

Etched Finish

FINISH CODE: 3

This surface finish, as the name suggests is a semi-rough finish. The etching of the pole surface is accomplished by sand blasting the face of the pole. The sand blasting removes the outer layer of mortar, exposing the decorative aggregates beneath. As with the polished finish, a sealer is applied to enhance the look.

Exposed Finish

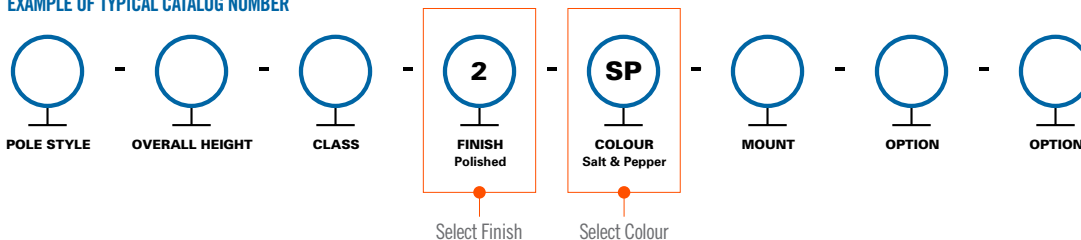
FINISH CODE: 4

This surface finish is a two-stage process. Initially the pole form is coated with a "surface retarder", which delays the hardening of the thin outer layer of the concrete. After the pole is cured, the pole surface is pressure washed with water to expose the aggregate. This finish is a rough finish, with large portions of the aggregate showing. No sealers are typically applied to this pole.



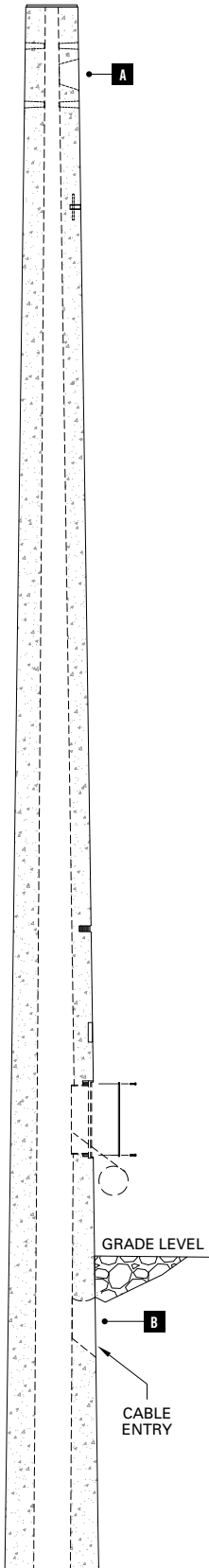
POSITION REFERENCE OF COLOUR AND FINISH CODE IN TYPICAL CATALOGUE NUMBER

EXAMPLE OF TYPICAL CATALOG NUMBER



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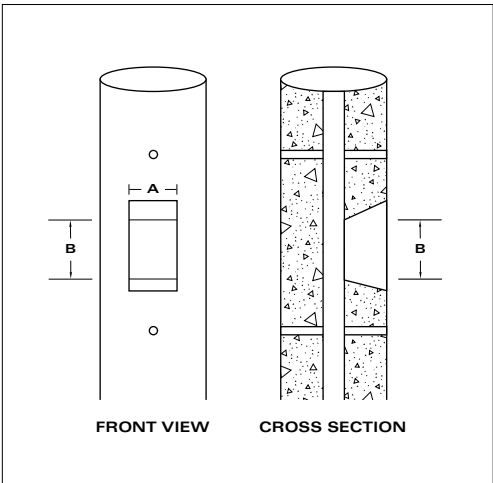
E.&O.E. Subject to change without notice. Printed in Canada. ©2014



WIRING APERTURES

Through the centrifugal casting process, our spun concrete poles achieve a hollow raceway ideal for placing wiring. Access holes (top & bottom) can be cast in for getting the wires in and out of this naturally formed conduit. One end of the holes is typically sloped to provide clear access and the other is rounded to protect the wire during installation.

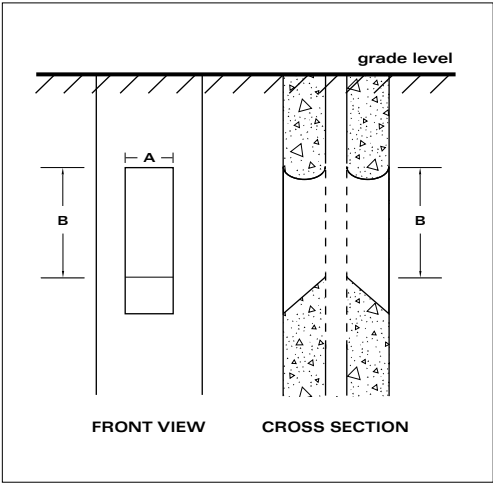
POLE TOP APERTURE **A**



Size is standard, but location will vary with fixture mount style.

WIRING APERTURE	INSIDE CLEAR DIMENSIONS	
	A	B
1 1/2" x 3"	38mm [1 1/2"]	75mm [3"]

BELOW GRADE APERTURE **B**



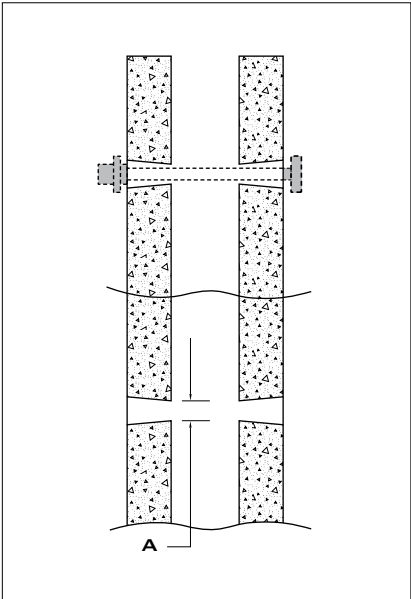
Standard location is 18" below grade level and is available in two sizes.

WIRING APERTURE	INSIDE CLEAR DIMENSIONS	
	A	B
2 1/2" x 5"	63mm [2 1/2"]	125mm [5"]
3 1/2" x 10 1/2"	88mm [3 1/2"]	263mm [10 1/2"]



THROUGH HOLES **C**

Through holes for bolts are formed directly in the concrete. Size and position will vary according to fixture.



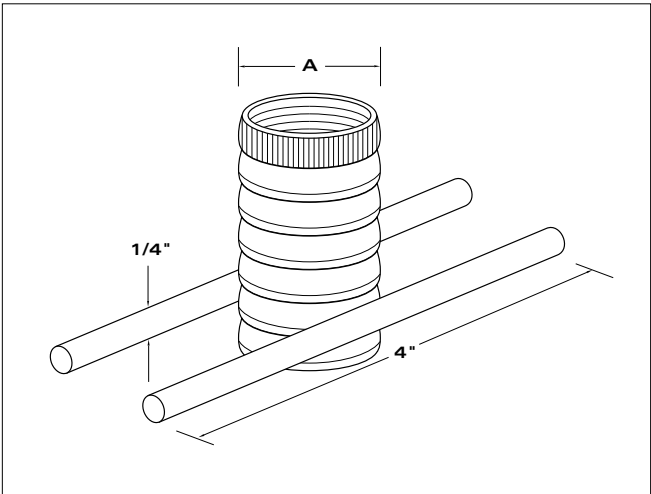
Standard diameter holes sizes:

DIMENSION	DIAMETER HOLE SIZES
A	13mm [1/2"]
	16mm [5/8"]
	20mm [3/4"]
	25mm [1"]

*Note: Inside clear dimensions – through holes are tapered 1mm [1/16"]
Additional sizes are available upon request.*

CAST IN THREADED INSERTS **D**

Inserts shall be cast directly into the concrete pole when required for threaded bolts or attachments. All inserts shall be hot dipped galvanized, or zinc alloy for maximum protection. Inserts are designed to accept standard UNC bolts.



Standard inserts:

DIMENSION	INSERT DIAMETERS
A	6mm [1/4"]
	9mm [3/8"]
	13mm [1/2"]
	16mm [5/8"]
	20mm [3/4"]

*Note: Inserts are designed to accept standard UNC bolts.
Additional sizes are available upon request.*

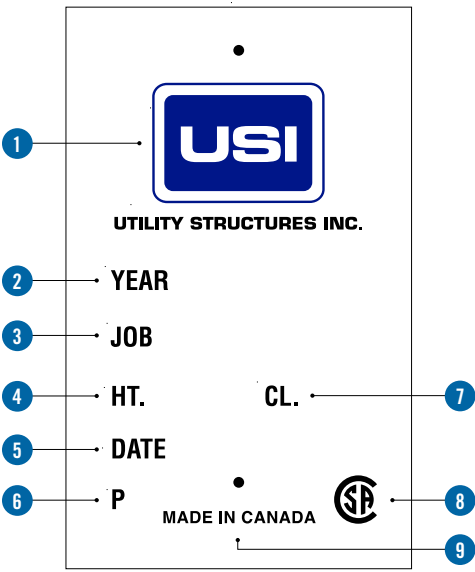
Pole attachments with inserts

All lighting bracket arms, pole steps and scroll arm attachments that are mounted to the pole using inserts, can only be torqued to a maximum of 20 ft. - lbs.



IDENTIFICATION PLATE **E**

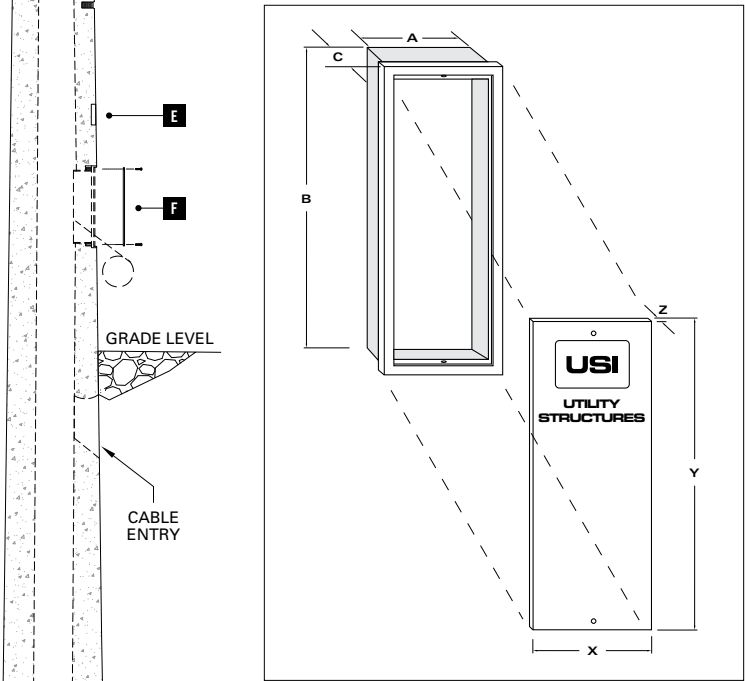
Concrete poles are built to CSA Standard A.14. All poles come equipped with this nameplate, which also outlines nine important features of each pole.



- 1. USI – Utility Structures Inc. company logo
- 2. YEAR – the year of manufacture
- 3. JOB – Special ID tracking number
- 4. HT. – the **overall height** of the pole
- 5. DATE – day of manufacture
- 6. P – Signifies the pole is prestressed
- 7. CL. – Pole Class (the strength of the pole)
- 8. CSA – the use of the C.S.A. logo states that the pole is manufactured to Canadian Standards Association A.14.
- 9. MADE IN CANADA – the country in which the pole was manufactured

HANDHOLE BOXES and COVER PLATES **F**

Handhole boxes are typically 36" above grade. Our Handhole boxes and covers are comprised of a die cast (ZA 12) zinc alloy. The cover is form fitting to the box which allows for ease of access.



HANDHOLE BOXES

BOX NUMBER	DIMENSIONS		
	A	B	C
1	50mm [2"]	200mm [8"]	45mm [1 3/4"]
2	63mm [2 1/2"]	200mm [8"]	50mm [2"]
3	81mm [3 1/2"]	263mm [10 1/2"]	63mm [2 1/2"]

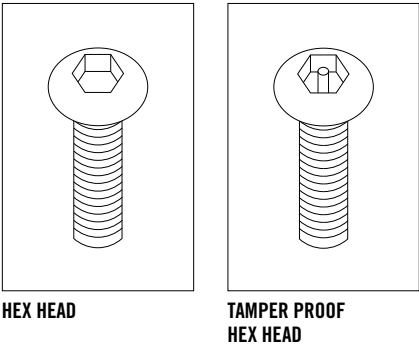
COVER PLATES

COVER NUMBER	DIMENSIONS		
	X	Y	Z
1	56mm [2 1/4"]	225mm [9"]	3mm [1/4"]
2	70mm [2 3/4"]	225mm [9"]	3mm [1/4"]
3	170mm [3 3/4"]	288mm [11 1/2"]	3mm [1/4"]



STAINLESS STEEL SCREWS **G**

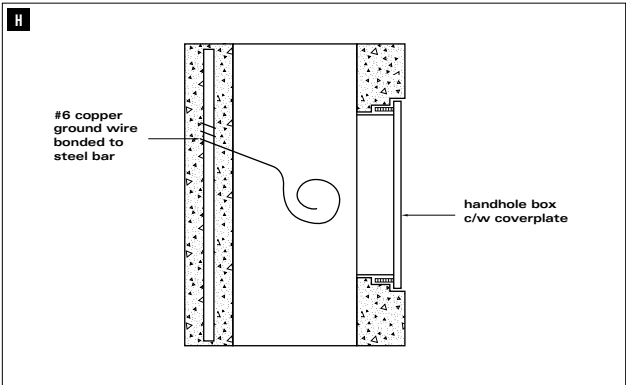
Handhole Covers are fastened with stainless steel (18-8), button head cap screws. They are available in the following two head styles; Hex head, and Tamper proof hex head.



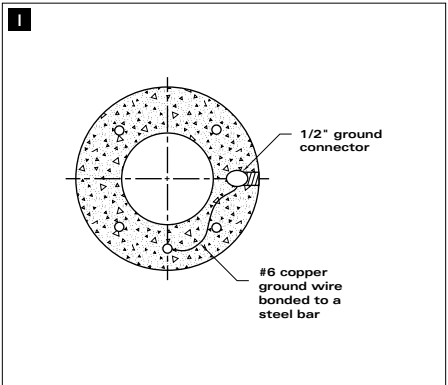
SCREW TYPE	DIMENSIONS	
	DIAMETER	LENGTH
HEX HEAD	6mm [1/4"] - 20	20mm [3/4"]
TAMPER PROOF HEX HEAD	6mm [1/4"] - 20	20mm [3/4"]

ELECTRICAL GROUNDING **H + I**

CSA requires at least one ground connection providing adequate electrical contact to one steel rod. The ground bar is continuous throughout the length of the pole and metallically connected to all other reinforcing rods. Grounding will consist of a #6 bare copper strand. The following two methods are approved by CSA:



STANDARD WIRE GROUND



OPTIONAL 1/2" GROUND CONNECTOR INSERT





QUALITY CONTROL

Through our fifty plus years in the precast industry USI has developed a reputation for high quality products. As an accredited CSA A23.1 certified plant, we must maintain a quality control program. This compliance control program assures the product is inspected through shop drawing, production practices and record keeping.

Every pole carries a unique ID numbered tagging system, which ensures traceability of all components and manufacturing procedures for that pole. The concrete mix shall be tested regularly to CSA standards. A Quality Control technician shall inspect and approve the pole through each stage. A final inspection and stamp are required after the entire manufacturing process is completed.



Over fifty years and still testing strong (circa 1960).

UTILITY STRUCTURES INC. 10-YEAR WARRANTY

Utility Structures Inc. warrants its products against defects in material and workmanship. Without charge Utility Structures Inc. will either repair or replace any properly installed Utility Structures Inc. product which fails under normal operating conditions within a ten (10) year period from the date of shipment, providing our inspection determines it to be defective under the terms of this warranty. Utility Structures Inc. reserves the right in its sole discretion to decide between repair and replacement.

This warranty covers only products manufactured by Utility Structures Inc. and does not extend to transportation or installation charges, nor does it apply to any equipment of another manufacturer used in conjunction with Utility Structures Inc. products. This express warranty is in lieu of all other representations, warranties or conditions expressed or implied. In no event shall Utility Structures Inc's liability under this warranty exceed the amount paid by the customer to Utility Structures Inc. and in no event shall Utility Structures Inc. be liable for any special, indirect or consequential damages.

We currently expect our spun concrete poles to have a life expectancy of fifty (50) years or more. Through new concrete technology, advanced manufacturing processes, and stringent quality control we can assure the client of this long life.



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