



## Rough Order of Magnitude (ROM)

To: ASP Ameristar Perimeter Security  
Project Name: Budget Pricing Jan 2018  
 #####

From: ASP Sales Engineer  
 USA

### ROM

### Budget Pricing Jan 2018

**Scope of Work:**

Budget pricing for Active vehicle barriers to include  
 Sentinel Wedge Barrier - with 1 or 2 zone HPU with PLC, Freedom HPU pricing TBD  
 Patriot Rising beam barrier - with 1 or 2 zone HPU with PLC, Freedom HPU pricing TBD  
 Bollards - Titan and Defender in 3, 4, and 5 Bollard sets - Globoll as a single unit in SS or Painted  
 Bollard HPU - in 1 zone or 2 zone style. Note GlodBall can have a smaller HPU that is not quoted here, Freedom HPU TBD  
 Budget Number for installation are all quoted from historical data provided using non- union Labor Figures

TYPE	DESCRIPTION	QTY	UNIT PRICE - \$
<b>Equipment Pricing - Active Vehicle Barriers (AVB) - Sentinel Wedge Barrier</b>			
Sentinel	Sentinel Wedge - Width 8', Includes, Hydraulic Cylinder, Up Limit Switch	0.00	\$32,562.61
Sentinel	Sentinel Wedge - Width 10', Includes, Hydraulic Cylinder, Up Limit Switch	0.00	\$36,308.02
Sentinel	Sentinel Wedge - Width 12', Includes, Hydraulic Cylinder, Up Limit Switch	0.00	\$40,650.36
Sentinel	Sentinel Wedge - Width 14', Includes, Hydraulic Cylinder, Up Limit Switch	0.00	\$45,589.61
HPU	Wedge HPU - 1 Zone PLC, No EFO, PWR AS SPECIFIED	0.00	\$8,487.67
HPU	Wedge HPU - 1 Zone PLC, EFO, PWR AS SPECIFIED	0.00	\$10,121.20
HPU	Wedge HPU - 2 Zone PLC, No EFO, PWR AS SPECIFIED	0.00	\$9,827.09
HPU	Wedge HPU - 2 Zone PLC, EFO, PWR AS SPECIFIED	0.00	\$11,921.96
<b>Equipment Pricing - Active Vehicle Barriers (AVB) - Patriot Rising Beam Barrier</b>			
Patriot	Patriot Rising Beam - 12', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$57,999.37
Patriot	Patriot Rising Beam - 14', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$59,171.64
Patriot	Patriot Rising Beam - 16', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$60,498.97
Patriot	Patriot Rising Beam - 18', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$62,030.01
Patriot	Patriot Rising Beam - 20', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$62,896.80
Patriot	Patriot Rising Beam - 22', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$63,890.60
Patriot	Patriot Rising Beam - 24', Includes, Hydraulic Cylinder(s), Up Limit Switch	0.00	\$64,561.75
HPU	Patriot HPU - 2 Zone PLC, No EFO, PWR AS SPECIFIED	0.00	\$9,827.09
HPU	Patriot HPU - 2 Zone PLC, EFO, PWR AS SPECIFIED	0.00	\$11,921.96
<b>Equipment Pricing - Active Vehicle Barriers (AVB) - Titan Bollards</b>			
Titan	Titan Bollard - 3 Bollard set, Includes, Hydraulic Cylinder, DN Limit Switch	0.00	\$30,583.38
Titan	Titan Bollard - 4 Bollard set, Includes, Hydraulic Cylinder, DN Limit Switch	0.00	\$40,777.85
Titan	Titan Bollard - 5 Bollard set, Includes, Hydraulic Cylinder, DN Limit Switch	0.00	\$50,972.31



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TYPE	DESCRIPTION	QTY	UNIT PRICE - \$
<b>Equipment Pricing - Active Vehicle Barriers (AVB) - Defender Bollards</b>			
Defender	Defender Bollard - 3 Bollard set, Includes, Hyd Cylinder, DN Limit Switch	0.00	\$15,842.55
Defender	Defender Bollard - 4 Bollard set, Includes, Hyd Cylinder, DN Limit Switch	0.00	\$21,123.40
Defender	Defender Bollard - 5 Bollard set, Includes, Hyd Cylinder, DN Limit Switch	0.00	\$26,404.25
<b>Equipment Pricing - Active Vehicle Barriers (AVB) - GloBall Bollards</b>			
GloBall	GloBall Bollard - Single Bollard, Stainless Steel, lights, White tape	0.00	\$6,398.98
GloBall	GloBall Bollard - Single Bollard, Painted Black, lights, White tape	0.00	\$5,302.46
<b>Equipment Pricing - Active Vehicle Barriers (AVB) -Bollard HPU Options</b>			
HPU	Bollard HPU - 1 Zone PLC, No EFO, PWR AS SPECIFIED	0.00	\$9,269.92
HPU	Bollard HPU - 1 Zone PLC, EFO, PWR AS SPECIFIED	0.00	\$11,364.78
HPU	Bollard HPU - 2 Zone PLC, No EFO, PWR AS SPECIFIED	0.00	\$11,904.84
HPU	Bollard HPU - 2 Zone PLC, EFO, PWR AS SPECIFIED	0.00	\$13,999.70
<b>Equipment Pricing - Active Vehicle Barriers (AVB) -M530 Drop Arm Electric Operation</b>			
M530_SM	M530 Drop Arm - 12', Shallow Foundation, Electric, Galvanized	0.00	\$23,510.93
M530_SM	M530 Drop Arm - 14', Shallow Foundation, Electric, Galvanized	0.00	\$23,921.01
M530_SM	M530 Drop Arm - 16', Shallow Foundation, Electric, Galvanized	0.00	\$24,638.63
M530_SM	M530 Drop Arm - 18', Shallow Foundation, Electric, Galvanized	0.00	\$25,151.23
M530_SM	M530 Drop Arm - 20', Shallow Foundation, Electric, Galvanized	0.00	\$25,561.31
M530_SM	M530 Drop Arm - 22', Shallow Foundation, Electric, Galvanized	0.00	\$26,483.97
M530_DM	M530 Drop Arm - 12',Deep Foundation, Electric, Galvanized	0.00	\$24,228.56



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TYPE	DESCRIPTION	QTY	UNIT PRICE - \$
<b>Equipment Pricing - Active Vehicle Barriers (AVB) -M530 Drop Arm Electric Operation - Continued</b>			
M530_DM	M530 Drop Arm - 14',Deep Foundation, Electric, Galvanized	0.00	\$24,638.63
M530_DM	M530 Drop Arm - 16',Deep Foundation, Electric, Galvanized	0.00	\$25,356.26
M530_DM	M530 Drop Arm - 18',Deep Foundation, Electric, Galvanized	0.00	\$25,868.86
M530_DM	M530 Drop Arm - 20',Deep Foundation, Electric, Galvanized	0.00	\$26,278.93
M530_DM	M530 Drop Arm - 22',Deep Foundation, Electric, Galvanized	0.00	\$27,201.60
<b>Equipment Pricing - Active Vehicle Barriers (AVB) -M530 Drop Arm Manual Operation</b>			
M530M_SM	M530 Drop Arm - 12',Shallow Foundation, Manual, Galvanized	0.00	\$17,359.81
M530M_SM	M530 Drop Arm - 14',Shallow Foundation, Manual, Galvanized	0.00	\$17,769.89
M530M_SM	M530 Drop Arm - 16',Shallow Foundation, Manual, Galvanized	0.00	\$18,385.00
M530M_SM	M530 Drop Arm - 18',Shallow Foundation, Manual, Galvanized	0.00	\$19,000.11
M530M_SM	M530 Drop Arm - 20',Shallow Foundation, Manual, Galvanized	0.00	\$20,262.79
M530M_SM	M530 Drop Arm - 22',Shallow Foundation, Manual, Galvanized	0.00	\$20,332.86
M530M_DM	M530 Drop Arm - 12',Deep Foundation, Manual, Galvanized	0.00	\$18,077.44
M530M_DM	M530 Drop Arm - 14',Deep Foundation, Manual, Galvanized	0.00	\$18,487.51
M530M_DM	M530 Drop Arm - 16',Deep Foundation, Manual, Galvanized	0.00	\$19,102.62
M530M_DM	M530 Drop Arm - 18',Deep Foundation, Manual, Galvanized	0.00	\$19,717.74
M530M_DM	M530 Drop Arm - 20',Deep Foundation, Manual, Galvanized	0.00	\$20,980.41
M530M_DM	M530 Drop Arm - 22',Deep Foundation, Manual, Galvanized	0.00	\$21,050.48



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TYPE	DESCRIPTION	QTY	UNIT PRICE - \$
<b>Budgetary Installation Numbers (AVB)- (Ameristar does not provide install services)</b>			
<b>Travel Labor Installallation Estimates - Out of State Contractor</b>			
TL_Sentinel	Sentinel Wedge - Estimate for Travel Labor Install - Width 8'	0.00	\$17,838.15
TL_Sentinel	Sentinel Wedge - Estimate for Travel Labor Install - Width 10'	0.00	\$18,031.15
TL_Sentinel	Sentinel Wedge - Estimate for Travel Labor Install - Width 12'	0.00	\$18,224.15
TL_Sentinel	Sentinel Wedge - Estimate for Travel Labor Install - Width 14'	0.00	\$18,417.15
TL_Titan	Titan Bollard - 3 Bollard set, Travel Labor Install Estimate	0.00	\$24,155.70
TL_Titan	Titan Bollard - 4 Bollard set, Travel Labor Install Estimate	0.00	\$30,077.65
TL_Titan	Titan Bollard - 5 Bollard set, Travel Labor Install Estimate	0.00	\$35,999.60
TL_Defender	Defender Bollard - 3 Bollard set, Travel Labor Install Estimate	0.00	\$20,953.95
TL_Defender	Defender Bollard - 4 Bollard set, Travel Labor Install Estimate	0.00	\$25,815.15
TL_Defender	Defender Bollard - 5 Bollard set, Travel Labor Install Estimate	0.00	\$30,676.35
TL_Patriot	Patriot Rising Beam - 12', Travel Labor Install Estimate	0.00	\$20,530.00
TL_Patriot	Patriot Rising Beam - 14', Travel Labor Install Estimate	0.00	\$21,417.50
TL_Patriot	Patriot Rising Beam - 16', Travel Labor Install Estimate	0.00	\$22,305.00
TL_Patriot	Patriot Rising Beam - 18', Travel Labor Install Estimate	0.00	\$23,135.00



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TYPE	DESCRIPTION	QTY	UNIT PRICE - S
<b>Travel Labor Installallation Estimates - Out of State Contractor - Continued</b>			
TL_Patriot	Patriot Rising Beam - 20', Travel Labor Install Estimate	0.00	\$23,965.00
TL_Patriot	Patriot Rising Beam - 22', Travel Labor Install Estimate	0.00	\$24,795.00
TL_Patriot	Patriot Rising Beam - 24', Travel Labor Install Estimate	0.00	\$25,717.00
TL_M530_SM	M530E Drop Arm - 12', Shallow, Travel Labor Install Estimate	0.00	\$10,417.50
TL_M530_SM	M530E Drop Arm - 14', Shallow, Travel Labor Install Estimate	0.00	\$10,926.00
TL_M530_SM	M530E Drop Arm - 16', Shallow, Travel Labor Install Estimate	0.00	\$11,434.50
TL_M530_SM	M530E Drop Arm - 18', Shallow, Travel Labor Install Estimate	0.00	\$11,943.00
TL_M530_SM	M530E Drop Arm - 20', Shallow, Travel Labor Install Estimate	0.00	\$12,451.50
TL_M530_SM	M530E Drop Arm - 22', Shallow, Travel Labor Install Estimate	0.00	\$12,960.00
TL_M530_DM	M530E Drop Arm - 12', Deep, Travel Labor Install Estimate	0.00	\$15,073.75
TL_HPU	Wedge HPU - 1 Zone PLC, Travel Labor Install Estimate	0.00	\$3,362.50
TL_HPU	Patriot HPU - 1 Zone PLC, Travel Labor Install Estimate	0.00	\$3,362.50
TL_HPU	Bollard HPU - 1 Zone PLC, Travel Labor Install Estimate	0.00	\$3,362.50



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TYPE	DESCRIPTION	QTY	UNIT PRICE - \$
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Note:

Ameristar does not provide installation services, Installation estimates are for budgetary purposes only and are based on Historical Data from Non-Union wage locations nation wide. If you have to utilize Union Labor please adjust the estimate accordingly.

Installation Estimates do not include Demolition of existing barriers, concrete roadways, moving or interference by utilities or others, also do not include permits that may be necessary.

Exclusions

- \* Conduits
- \* Conductors
- \* Vehicle detector ground loop wire
- \* Hydraulic oil
- \* Hydraulic hoses and fittings from the point of connection at barriers/bollards to HPUs.
- \* Maintenance
- \* Rebar
- \* Concrete
- \* Any and all site: labor, installation, materials and equipment
- \* Anchor bolts
- \* Off-loading
- \* Installation performed by others
- \* Network provided by others
- \* Power provided by others
- \* Communications wire provided by others