



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE
04333-0016

JOHN ELIAS BALDACCI
GOVERNOR

DAVID A. COLE
COMMISSIONER

May 11, 2010
Subject: **Scarborough, Falmouth,
Cumberland, Yarmouth, Freeport,
South Portland & Portland**
Federal Project No: IM-1678(700)E,
IM-1705(510)E, HPP-1705(520)E,
HP-1563(400)E & IM-1779(300)E
State Pin No: 016787.00, 017055.10,
017055.20, 015634.00 & 017793.00
Amendment No. 3

Dear Sir/Ms:

Make the following changes to the bid Documents:

In the Bid Book (pages 4 thru 18), **REMOVE** the "SCHEDULE OF ITEMS", 16 pages dated 100507 (replaced in amendment #2) and **REPLACE** with the attached new "SCHEDULE OF ITEMS", 16 pages dated 100510.

In the Bid Book, pages 57 and 62, "TYPICAL SECTIONS" **CHANGE** all references to "8 FOOT LONG POSTS ..." to read "7 FOOT LONG POSTS ...". Make this change in pen and ink.

In the Bid Book (page 248), SPECIAL PROVISION, SECTION 627, PAVEMENT MARKINGS, (Temporary Pavement Marking Line, White or Yellow), **ADD "HP-1563(400)E and IM-1678(700)E"** to the list in the top right corner of the page. Make this change in pen and ink.

In the Bid Book (page 294), 4th paragraph last sentence and 5th paragraph 2nd sentence - **CHANGE** Item 627.781 to read 627.76. Make this change in pen and ink.

In the Plans for PIN 15634.00 (I-295 Exit 7), SHEET NUMBER 6 OF 76 (Replaced in amendment #2), ESTIMATED QUANTITIES and CONSTRUCTION NOTES, **CHANGE** Item 606.65 to read Item 606.651. Make this change in pen and ink.

The following questions have been received:



PRINTED ON RECYCLED PAPER

Question: The Typical Sections of the southbound off ramp refer to single thrie beam as "Modified Thrie Beam". Please explain how this guardrail is modified.

Response: Two pages were added in Amendment No.2 that dealt with this question.

Question: Will the Contractor be able to mill tapered joints as an alternative to matching up milling each shift, if the tapered joint is milled out prior to paving the adjacent lane?

Response: No. A tapered longitudinal joint will not be accepted as an alternate to matching up at the end of each shift. An exception would be on the right edge of the travel lane in the off and on ramps. In all cases, weepers or other provisions would need to be used to allow for drainage when milled surfaces are confined. Vertical edges at the shoulders are allowed for 120 hours.

Question: Would the Department entertain completing 1/3 of the project this calendar year and the final 2/3s of the project in the 2011 construction season?

Response: No. The Department will not entertain splitting the project into two seasons. There are other projects scheduled that depend on this one being completed this year.

Question: In the event that a portion of the roadway is milled and subsequently the weather does not allow for paving within the 120 hours specified in Sec 105, General Scope of Work (limitations of operations, page 2 of 2 note 8), will supplemental Liquidated Damages be assessed?

Response: No. If the paving can't be completed within the 120 hour window due to contract restrictions or weather, a violation will not be assessed. A violation of Special Provision 105, General Scope of Work, (Limitations of Operations) note 8 will not be penalized under Special Provision 105, Control of Work, (Supplemental Liquidated Damages). It will only be penalized under Special Provision 652, Maintenance of Traffic,(Traffic Control).

Question: According to Section 105 Control of Work (Supplemental Liquidated Damages) in the event the Contractor is unable to open the roadway until the next shift, the Contractor will be assessed \$1,242,000 in Supplemental Liquidated Damages. Does the Department feel these damages are punitive?

Response: No. The Department believes that the Supplemental Liquidated Damages are reasonable and defensible.

Question: Special Provision 105, note 8 states lanes will need to be matched up each shift, does this include the shoulders, in areas where shoulders are intended to be milled?

Response: Yes, The milled shoulders will have to be matched up to the travel lanes.

Question: Construction notes item 202.202 for PIN 16787.00 lists approximately 55,600 LF of shoulder milling, it appears this will cause an overrun for item 403.2081, can you provide clarification?

Response: The Department is comfortable with the quantities in the Schedule of Items.

Question: Will escalation be allowed for the Special Provision, Section 108, for the item HMA 403.2101?

Response: No

Question: Please provide details or specifications for item 645.306, Flexible Reflectorized Delineator Bolted.

Response: Please use the below link and the two page attachment.

http://www.safehitx.com/html/safehit/surface_mount.html

Select 'Catalog Pages'

SH248SMT-WS is a Type 2 Guide Post

SH348SMT-WS is a Type 3 Channelizer

Each uses a SMT – Surface Mount Twist Lock Base.

Consider these changes and information prior to submitting your bid on May 12, 2010.

Sincerely,



Scott Bickford

Contracts & Specifications Engineer

SCHEDULE OF ITEMS

CONTRACT ID: 015634.00

PROJECT(S): HP-1563(400)E
 IM-1678(700)E
 017055.10
 OTHERS

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
SECTION 0001 PROJECT ITEMS						
0010	201.11 CLEARING	0.500 AC				
0020	202.202 REMOVING PAVEMENT SURFACE	311190.000 SY				
0030	202.205 RUMBLE STRIPS - SHOULDER	34000.000 LF				
0040	202.30 REMOVING EXISTING CONCRETE WEARING SURFACE	LUMP	LUMP			
0050	203.20 COMMON EXCAVATION	7800.000 CY				
0060	203.24 COMMON BORROW	100.000 CY				
0070	203.25 GRANULAR BORROW	100.000 CY				
0080	205.512 WIDENING OF EXISTING SHOULDER	850.000 SY				
0090	206.061 STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	50.000 CY				

SCHEDULE OF ITEMS

REVISED:

CONTRACT ID: 015634.00

PROJECT(S): HP-1563(400)E
 IM-1678(700)E
 017055.10
 OTHERS

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0100	304.09 AGGREGATE BASE COURSE - CRUSHED	950.000 CY				
0110	304.10 AGGREGATE SUBBASE COURSE - GRAVEL	6745.000 CY				
0120	403.208 HOT MIX ASPHALT 12.5 MM HMA SURFACE	5200.000 T				
0130	403.2081 12.5 MM POLYMER MODIFIED HOT MIX ASPHALT	21075.000 T				
0140	403.209 HOT MIX ASPHALT 9.5 MM (SIDEWALKS, DRIVES, INCIDENTALS)	30.000 T				
0150	403.210 HOT MIX ASPHALT 9.5 MM	150.000 T				
0160	403.2101 9.5 MM POLYMER MODIFIED HMA	650.000 T				
0170	403.211 HOT MIX ASPHALT (SHIMMING)	2100.000 T				
0180	403.213 HOT MIX ASPHALT 12.5 MM BASE	1650.000 T				
0190	403.2131 12.5 MM POLYMER MODIFIED HMA BASE	1445.000 T				

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 IM-1678(700)E
 017055.10
 OTHERS

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0200	409.15 BITUMINOUS TACK COAT - APPLIED	15600.000 G				
0210	411.10 UNTREATED AGGREGATE SURFACE COURSE (TRUCK MEASURE)	220.000 CY				
0220	424.3331 ASPHALT LOW MODULUS CRACK SEALER, APPLIED	5000.000 LB				
0230	424.3333 LOW MODULUS JOINT SEALER, APPLIED	68000.000 LF				
0240	429.34 GRID/ FABRIC FABRIC COMPOSITE PAVEMENT INTERLAYER	1000.000 SF				
0250	502.29 STRUCTURAL CONCRETE WEARING SURFACE ON BRIDGES	LUMP	LUMP			
0260	502.70 BRIDGE DRAINS TYPE A	12.000 EA				
0270	502.70 BRIDGE DRAINS TYPE C	20.000 EA				
0280	502.701 BRIDGE DRAIN GRATE MODIFICATION	52.000 EA				
0290	504.07 CONCRETE PIPE TIES	24.000 GP				

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 IM-1678(700)E
 017055.10
 OTHERS

CONTRACTOR : _____

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0300	507.0926 FURNISH ALUMINUM BRIDGE RAIL COMPONENTS	LUMP	LUMP			
0310	507.0927 ALUMINUM BRIDGE RAIL, 2 BAR POST REPLACEMENT	EA	8.000			
0320	507.0928 ALUMINUM BRIDGE RAIL, RAIL SECTION REPLACEMENT	LF	720.000			
0330	507.30 ALUMINUM RAIL BAR SPLICE RETROFIT	EA	24.000			
0340	508.14 HIGH PERFORMANCE WATERPROOFING MEMBRANE	LUMP	LUMP			
0350	515.21 PROTECTIVE COATING FOR CONCRETE SURFACES	LUMP	LUMP			
0360	518.39 REPAIRING GRANITE CURB BEDDING MORTAR	LF	930.000			
0370	518.50 REPAIR OF UPWARD FACING SURFACES - TO REINFORCING STEEL < 7.9 IN.	SF	8070.000			
0380	518.51 REPAIR OF UPWARD FACING SURFACES - BELOW REINFORCING STEEL < 7.9 IN.	SF	2180.000			

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0390	518.52 REPAIR OF UPWARD FACING SURFACES > 7.9 IN.	21.000 CY				
0400	518.60 REPAIR OF VERTICAL SURFACES < 7.9 IN.	180.000 SF				
0410	518.61 REPAIR OF VERTICAL SURFACES > 7.9 IN.	18.000 CY				
0420	520.241 BRIDGE JOINT MODIFICATION TYPE 1	1.000 EA				
0430	520.242 BRIDGE JOINT MODIFICATION TYPE 2	17.000 EA				
0440	520.243 BRIDGE JOINT MODIFICATION TYPE 3	1.000 EA				
0450	520.244 BRIDGE JOINT MODIFICATION TYPE 4	2.000 EA				
0460	520.245 BRIDGE JOINT MODIFICATION TYPE 5	3.000 EA				
0470	520.246 BRIDGE JOINT MODIFICATION TYPE 6	1.000 EA				
0480	520.247 BRIDGE JOINT MODIFICATION TYPE 7	7.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0490	523.5304 STEEL BEARINGS, EXPANSION, ROCKER	10.000 EA				
0500	524.301 TEMPORARY STRUCTURAL SUPPORT	LUMP	LUMP			
0510	526.301 TEMPORARY CONCRETE BARRIER TYPE I	LUMP	LUMP			
0520	526.34 PERMANENT CONCRETE TRANSITION BARRIER	48.000 EA				
0530	527.301 ENERGY ABSORBING SYSTEM (C-A-T)	16.000 EA				
0540	527.34 WORK ZONE CRASH CUSHIONS	14.000 UN				
0550	603.159 12 INCH CULVERT PIPE OPTION III	32.000 LF				
0560	603.165 15 INCH REINFORCED CONCRETE PIPE CLASS III	72.000 LF				
0570	603.179 18 INCH CULVERT PIPE OPTION III	35.000 LF				
0580	603.195 24 INCH REINFORCED CONCRETE PIPE CLASS III	144.000 LF				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0590	603.7424 REMOVE & RELAY 24 INCH CONCRETE PIPE	16.000 LF				
0600	604.072 CATCH BASIN TYPE A1-C	3.250 EA				
0610	604.092 CATCH BASIN TYPE B1-C	8.000 EA				
0620	604.16 ALTERING CATCH BASIN TO MANHOLES	2.000 EA				
0630	604.18 ADJUSTING MANHOLE OR CATCH BASIN TO GRADE	6.000 EA				
0640	604.182 CLEAN EXISTING CATCH BASIN AND MANHOLE	130.000 EA				
0650	604.244 CATCH BASIN TYPE F4	1.000 EA				
0660	605.09 6 INCH UNDERDRAIN TYPE B	1210.000 LF				
0670	605.11 12 INCH UNDERDRAIN TYPE C	750.000 LF				
0680	606.1721 BRIDGE TRANSITION - TYPE 1	56.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0690	606.178 GUARDRAIL BEAM	500.000				
		LF				
0700	606.24 GUARDRAIL TYPE 3D - SINGLE RAIL	862.500				
		LF				
0710	606.265 TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	11.000				
		EA				
0720	606.352 REFLECTORIZED BEAM GUARDRAIL DELINEATORS	1500.000				
		EA				
0730	606.353 REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	127.000				
		EA				
0740	606.356 UNDERDRAIN DELINEATOR POST	35.000				
		EA				
0750	606.363 GUARDRAIL REMOVE AND DISPOSE	4480.000				
		LF				
0760	606.3651 GUARDRAIL-REMOVE, MODIFY, AND RESET EXISTING TO 3D	1400.000				
		LF				
0770	606.367 REPLACE UNUSABLE EXISTING GUARDRAIL POSTS	40.000				
		EA				
0780	606.48 SINGLE GALVANIZED STEEL POST	40.000				
		EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0790	606.561 GUARDRAIL TYPE 3 - DOUBLE RAIL WITH RUB RAIL BACK TO BACK RAIL IN MEDIAN	22700.000 LF				
0800	606.651 MODIFIED GUARDRAIL THRIE BEAM - SINGLE RAIL	2565.000 LF				
0810	606.66 TERMINAL END THRIE BEAM	1.000 EA				
0820	606.70 TRANSITION SECTION THRIE BEAM	1.000 EA				
0830	606.79 GUARDRAIL 350 FLARED TERMINAL	20.000 EA				
0840	609.31 CURB TYPE 3	1200.000 LF				
0850	609.34 CURB TYPE 5	374.000 LF				
0860	609.38 RESET CURB TYPE 1	550.000 LF				
0870	609.40 RESET CURB TYPE 5	800.000 LF				
0880	610.08 PLAIN RIPRAP	100.000 CY				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0890	610.18 STONE DITCH PROTECTION	20.000 CY				
0900	613.319 EROSION CONTROL BLANKET	2650.000 SY				
0910	615.07 LOAM	500.000 CY				
0920	618.1401 SEEDING METHOD NUMBER 2 - PLAN QUANTITY	250.000 UN				
0930	619.1201 MULCH - PLAN QUANTITY	250.000 UN				
0940	619.1401 EROSION CONTROL MIX	250.000 CY				
0950	620.58 EROSION CONTROL GEOTEXTILE	1350.000 SY				
0960	621.01 EVERGREEN TREES (8 INCH - 12 INCH)	50.000 EA				
0970	621.014 EVERGREEN TREES (18 INCH - 24 INCH) GROUP A	50.000 EA				
0980	621.025 EVERGREEN TREES (3 FOOT - 4 FOOT) GROUP A	60.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0990	621.026 EVERGREEN TREES (3 FOOT - 4 FOOT) GROUP B	50.000 EA				
1000	621.541 DECIDUOUS SHRUBS (18 INCH - 24 INCH) GROUP B	240.000 EA				
1010	626.11 PRECAST CONCRETE JUNCTION BOX	10.000 EA				
1020	626.22 NON-METALLIC CONDUIT	1850.000 LF				
1030	626.32 24 INCH FOUNDATION	2.000 EA				
1040	626.331 36 INCH FOUNDATION	1.000 EA				
1050	627.18 12 " SOLID WHITE PAVEMENT MARKING	10066.000 LF				
1060	627.744 6" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	240000.000 LF				
1070	627.75 WHITE OR YELLOW PAVEMENT & CURB MARKING	2500.000 SF				
1080	627.76 TEMPORARY PVMT. MARK LINE, W OR YELLOW	LUMP	LUMP			

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 IM-1678(700)E
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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1090	627.77 REMOVING PAVEMENT MARKINGS	17600.000 SF				
1100	629.05 HAND LABOR, STRAIGHT TIME	290.000 HR				
1110	631.10 AIR COMPRESSOR (INCLUDING OPERATOR)	154.000 HR				
1120	631.11 AIR TOOL (INCLUDING OPERATOR)	154.000 HR				
1130	631.12 ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	75.000 HR				
1140	631.122 MINI ALL-PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40.000 HR				
1150	631.133 SKID STEER (INCLUDING OPERATOR)	50.000 HR				
1160	631.14 GRADER (INCLUDING OPERATOR)	30.000 HR				
1170	631.172 TRUCK - LARGE (INCLUDING OPERATOR)	110.000 HR				
1180	631.18 CHAIN SAW RENTAL (INCLUDING OPERATOR)	30.000 HR				

SCHEDULE OF ITEMS

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1190	631.22 FRONT END LOADER (INCLUDING OPERATOR)	10.000 HR				
1200	631.32 CULVERT CLEANER (INCLUDING OPERATOR)	40.000 HR				
1210	639.18 FIELD OFFICE TYPE A	1.000 EA				
1220	643.71 TRAFFIC SIGNAL MODIFICATION	LUMP	LUMP			
1230	643.83 VIDEO DETECTION SYSTEM NORTHBOUND	LUMP	LUMP			
1240	643.83 VIDEO DETECTION SYSTEM SOUTHBOUND	LUMP	LUMP			
1250	643.86 TRAFFIC SIGNAL LOOP DETECTORS	4.000 EA				
1260	643.92 PEDESTAL POLE	2.000 EA				
1270	645.103 DEMOUNT GUIDE SIGN	5.000 EA				
1280	645.106 DEMOUNT REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGN	1.000 EA				

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1290	645.12 OVERHEAD GUIDE SIGN: LOCATION 1: I-295 AT EXIT 7	LUMP	LUMP			
1300	645.12 OVERHEAD GUIDE SIGN: LOCATION 2: I-295 AT EXIT 7	LUMP	LUMP			
1310	645.271 REGULATORY, WARNING, CONFIRMATION AND ROUTE MARKER ASSEMBLY SIGNS, TYPE I	SF	20.000			
1320	645.306 FLEXIBLE REFLECTORIZED DELINEATOR BOLTED	EA	290.000			
1330	645.306 FLEXIBLE REFLECTORIZED DELINEATOR DRIVEN	EA	310.000			
1340	652.30 FLASHING ARROW BOARD	EA	7.000			
1350	652.31 TYPE I BARRICADE	EA	25.000			
1360	652.311 TYPE II BARRICADE	EA	25.000			
1370	652.312 TYPE III BARRICADE	EA	80.000			
1380	652.32 BATTERY OPERATED LIGHT	EA	15.000			

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1390	652.33 DRUM	800.000 EA				
1400	652.34 CONE	1000.000 EA				
1410	652.35 CONSTRUCTION SIGNS	6600.000 SF				
1420	652.36 MAINTENANCE OF TRAFFIC CONTROL DEVICES	186.000 CD				
1430	652.38 FLAGGER	5125.000 HR				
1440	652.381 TRAFFIC OFFICER	225.000 HR				
1450	652.41 PORTABLE CHANGEABLE MESSAGE SIGN	12.000 EA				
1460	656.75 TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	LUMP	LUMP			
1470	658.20 ACRYLIC LATEX COLOR FINISH, GREEN	150.000 SY				
1480	659.10 MOBILIZATION	LUMP	LUMP			

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LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
	SECTION 0001 TOTAL					
	TOTAL BID					



Safe-Hit's 2 1/4" (57.2mm) diameter posts are constructed of durable linear low density, co-extruded polyethylene with UV inhibitors. They are designed with an innertube to help withstand vehicular impacts and are available in heights ranging from 18 inches (457.2mm) to 54 inches (1.3716m). Safe-Hit posts come standard with high intensity reflective sheeting. Decals can be used instead of reflective sheeting if desired. See page 11 for details.

SURFACE MOUNT SYSTEMS

Safe-Hit surface mount channelizers and tubular markers are easy to install and come standard with a convenient Surface Mount Pin Lock Base that allows post replacement in 30 seconds. The surface mount posts can be installed on asphalt or concrete using epoxy kits, butyl pads or mechanical anchors. Bases installed using a butyl pad or mechanical anchors can be re-used.

Specify post color and reflective sheeting colors when ordering.

- Standard Post Colors: White, Yellow or Orange
- Custom Colors: Light Gray, Dark Gray, Green, Blue, Black, Brown or Red
- Reflective Sheeting: Standard is high-intensity Silver, Amber or Orange (see page 12 for other reflective options)
- Custom Base Colors: Yellow or Orange



TYPE 1 HAZARD MARKER

Round post, flattened on top with black oval cap, three 3"(76.2m) x 3"(76.2m) reflective patches and Surface Mount Pin Lock Base.



Size		Part No.
48"	1219mm	SH148SMA-YS

TYPE 3 CHANNELIZER

Round post with recessed cap, one 6" (152.4mm) reflective wrap and Surface Mount Pin Lock Base.



Size		Part No.
48"	1219mm	SH348SMA--WS
42"	1066mm	SH342SMA--WS
36"	914.4mm	SH336SMA--WS
28"	711.2mm	SH328SMA--WS
24"	609.6mm	SH324SMA--WS
18"	457.2mm	SH318SMA--WS

TYPE 2 GUIDE POST

Round post, flattened on top with black oval cap, one 3" (76.2mm) x 9" (228.6mm) reflective strip and Surface Mount Pin Lock Base.



Size		Part No.
48"	1219mm	SH248SMA--WS
42"	1066mm	SH242SMA--WS
36"	914.4mm	SH236SMA--WS
28"	711.2mm	SH228SMA--WS
24"	609.6mm	SH224SMA--WS
18"	457.2mm	SH218SMA--WS

TYPE 5 MARKER POST

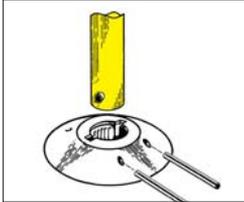
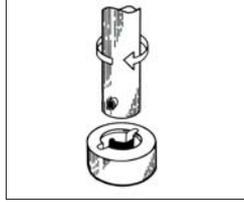
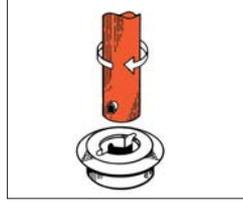
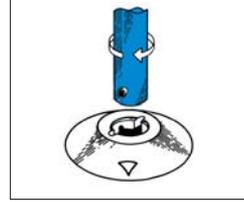
Round post with recessed cap, two 3" (76.2mm) reflective wraps and Surface Mount Pin Lock Base.



Size		Part No.
48"	1219mm	SH548SMA--OS
42"	1066mm	SH542SMA--OS
36"	914.4mm	SH536SMA--OS
28"	711.2mm	SH528SMA--OS
24"	609.6mm	SH524SMA--OS
18"	457.2mm	SH518SMA--OS

BASE OPTIONS

Safe-Hit's flexible surface mount posts come standard with a Surface Mount Pin Lock Base. You may substitute other bases.

SMA SURFACE MOUNT PIN LOCK BASE	SLT SUB-LEVEL TWIST LOCK BASE	SST SUB-SURFACE TWIST LOCK BASE	SMT SURFACE MOUNT TWIST LOCK BASE	PSB PORTABLE BASE
<p>Ideal for permanent installations.</p>	<p>Used when it is desirable to have the base level with the concrete or asphalt surface.</p>	<p>Used when a low profile is desired due to vehicular or pedestrian traffic.</p>	<p>Used when posts must be installed, removed and re-installed periodically.</p>	<p>No anchor or adhesive required. Ideal for temporary applications. Base is 18 lbs. (8.165kg)</p>
				
<p>Part No.</p> <p>SHSMA-1---BL</p>	<p>Part No.</p> <p>SHSLT-1---BL</p>	<p>Part No.</p> <p>SHSST-1---BL</p>	<p>Part No.</p> <p>SHSMT-1---BL</p>	<p>Part No.</p> <p>SHPSB-1---BL</p>

SAFE-HIT BASES WITH REFLECTIVE

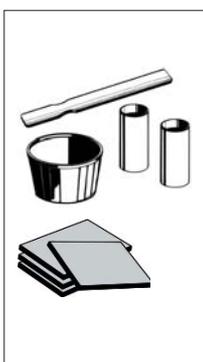


Safe-Hit base reflectors provide an extra level of visual warning. They are especially effective in high impact areas and twist lock applications that are frequently removed. Available in High Intensity or Diamond Grade, Amber and Silver reflective.



Part No.	Description
SHSMAxx1- -BL	Pin Lock base, Front Only
SHSMAxx2- -BL	Pin Lock base, Front & Back
SHSMAxx4- -BL	Pin Lock base, All Around
SHSMTxx1- -BL	Twist Lock base, Front only
SHSMTxx2- -BL	Twist Lock base, Front & Back
SHSMTxx4- -BL	Twist Lock base, All Around

ADHESIVES, HARDWARE & ACCESSORIES

	Epoxy Kit	For installing one base.	Part No. SHEPX-13--KI		Accessory Part	Part No.
	Case Epoxy Kit	For installing 25 bases.	SHEPX-25-CA		Oval Cap Black for Type 1 and Type 2 Posts	2023060-0006
	Butyl Pad	For installing one base.	SHBTL-23--KI		Oval Cap White for Type 1 and Type 2 Posts	2023060-0000
	Case Butyl Pads	For installing 40 Units.	SHBTL-24-CA		Round Cap	2023060-0000
	Lag Screws and Lag Anchors	Lag Screws can be used as a semi-permanent method of mounting the Safe-Hit surface mount bases.	SHSMALAG--01		Twist Lock Base Plug	SHBP--04TBL
	Hex Bolts and Drop-In Anchors	Bolts and Anchors can be used as a semi-permanent method of mounting the Safe-Hit surface mount bases.	SHSMADRI--01			
	Punch Pin Tool	For easy pin lock removal.	SHTOL----DRP			