



# Product Guide

INTERSTATE STEEL

3616 Old Howard County Airport

Big Spring, TX 79720

(432) 263-3725 (Office)

(432) 267-4039 (FAX)

[Intestatesteeltexas.com](http://Intestatesteeltexas.com)



## **Interstate Steel**

It is the mission of Interstate Steel, through product development and product services, to actively and aggressively participate in the maintenance and development of county, state, and federal highway systems to improve motorist safety.

## Table of Contents

MASH-MSKT .....	4
MASH Diagram: .....	5
MASH MSKT Bill of Material:.....	6
MSKT PARTS: MSKT Impact Head .....	7
MSKT Parts: Guardrail.....	8
MSKT Parts: Cable Parts.....	9
MSKT Parts: First and Second Post .....	10
MSKT Hardware:.....	12
SKT-350 .....	14
SKT-350 31" Type 1.....	15
SKT-350 31" Type 2.....	16
SKT-350 31" Type 3.....	17
SKT-350 31" Steel Post.....	18
SKT-350 28" Type 1.....	19
SKT-350 28" Type 2.....	20
SKT-350 28" Type 3.....	21
SKT-350 28" Steel Post.....	22
SKT-350 28" Hinged Breakaway Post System .....	23
SKT-350 Parts: .....	24
SKT-350 Hardware:.....	33
Downstream Anchor Terminal .....	36
DAT System Diagram: .....	37
DAT System Bill of Materials: .....	38
DAT Parts: .....	39
DAT Hardware: .....	42

## Table of Contents (Continued)

BEAT-SSCC.....	43
BEAT-SSCC Diagram: .....	44
BEAT-SSCC Bill of Materials:.....	45
BEAT-SSCC Parts: Head .....	46
BEAT-SSCC Parts: .....	47
BEAT-SSCC Hardware:.....	52
Guardrail .....	55
Guide To Guardrail Measurements .....	56
Common Guardrail Lengths .....	57
Guardrail Available .....	58
Transitions and Ends.....	59
Timber Posts.....	60
Steel Posts .....	61
Composite Blocks .....	62
Contact Us.....	63

# MASH MSKT



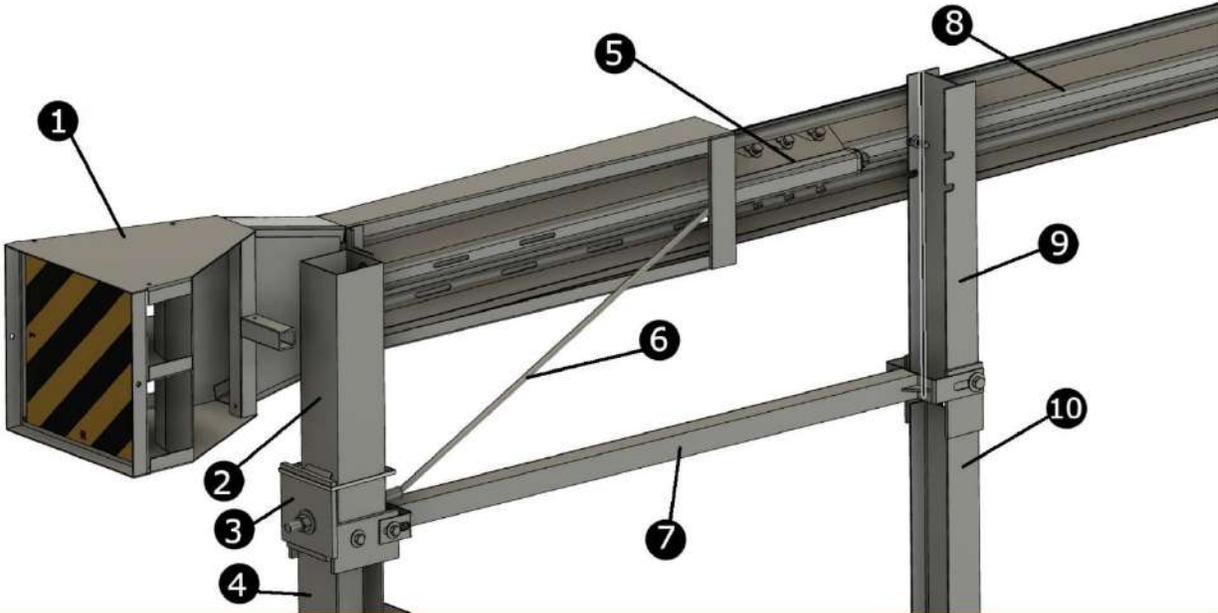
RSI's new MSKT (**MASH-compliant Sequential Kinking Terminal**) is an energy-absorbing tangent terminal that is MASH TL-3 compliant.

The MSKT is 50'-0" long and has 8 posts spaced at 6'-3" centers. During head-on impacts, the MSKT head slides over the W-beam guardrail. The rail is sequentially kinked as it moves through the impact head. The kinked guardrail exits the head and the vehicle is brought to a controlled stop.

This is the same technology that has proven to be very effective with excellent field performance seen in the NCHRP 350 SKT. When impacted along the side within the length-of-need, the MSKT functions like guardrail. The errant vehicle is contained and redirected.

In addition, all of the W-Beam and the cable anchor bracket, cable, and some of the posts are the same for the MSKT MASH system and the NCHRP 350 SKT system.

# MASH Diagram:



- 1: MS3000 Head
- 2: MTPHP1A First Post Upper
- 3: E750 Bearing Plate
- 4: MTPHP1B First Post Lower
- 5: S760 Cable Anchor Box
- 6: E770 Cable Assembly
- 7: MS785 MASH Strut

- 8: SF1303 Terminal Rail
- 9: UHP2A Second Post Upper
- 10: HP2B Second Post Lower

## MASH MSKT Bill of Material:

### Parts

Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1
E3151	Object Marker 18 x 18	1
SF1303	SKT #1 GUARDRAIL 12/12' 6"/6' 3"	1
G12025	GUARDRAIL 12/9' 4-1/2"/3' 1-1/2"	1
G1209	GUARDRAIL 12/25'/3' 1-1/2"	1
E750	BEARING PLATE - 5/8" x 8" x 8"	1
S760	CABLE ANCHOR BOX (SKT)	1
E770	CABLE ASSEMBLY	1
MS785	MASH Strut	1
MTPHP1A	MASH TWO POST HINGE POST # 1 UPPER	1
MTPHP1B	MASH TWO POST HINGE POST # 1 LOWER	1
UHP2A	UNIVERSAL HINGE POST # 2 UPPER	1
HP2B	HINGE POST # 2 LOWER	1
P621	STEEL LINE POST	6
CBSP-14	STEELCOMPOSIT BLOCK 14"	6

### Hardware

Item #:	Description:	Quantity:
B5160104A	5/16 X 1 HEX BOLT GR.5	2
B580122	5/8" x 1 1/4" HGR SPLICE BOLT	25
B580904A	5/8" x 9" HEX. HD. BOLT GR. 5	2
B340854A	3/4 X 8 1/2" HEX HEAD BOLT GR. 5	1
B581002	5/8" x 10" HGR POST BOLT	6
N0516	5/16 HEX NUTS	2
N050	5/8" HGR. NUTS	33
N030	3/4" HEX NUTS	1
W0516	5/16 WASHERS	4
W050	5/8" WASHERS	3
N100A	1" HEX NUT ( ANCHOR CABLE )	2
W100A	1" WASHER ( ANCHOR CABLE )	2
CBH	Bag of Shoulder Bolts (8 bolts,8 nuts, 8 Flatwashers)	1
CT-100 ST	STEEL CABLE TIE	1

## MSKT PARTS: MSKT Impact Head

**MS3000**

SKT Impact Head



**E3151**

Object Marker

18" X 18"



**MSKT Parts: Guardrail**



**SF 1303**

12 / 12'6" / 6'3"

**G1209**

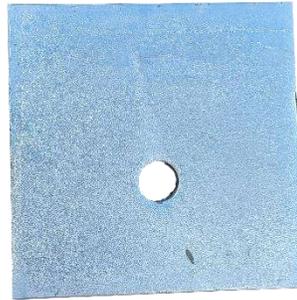
12 / 25' / 3' 1.5"



**G12025**

12 / 9' 4-1/2" / 3' 1-1/2"

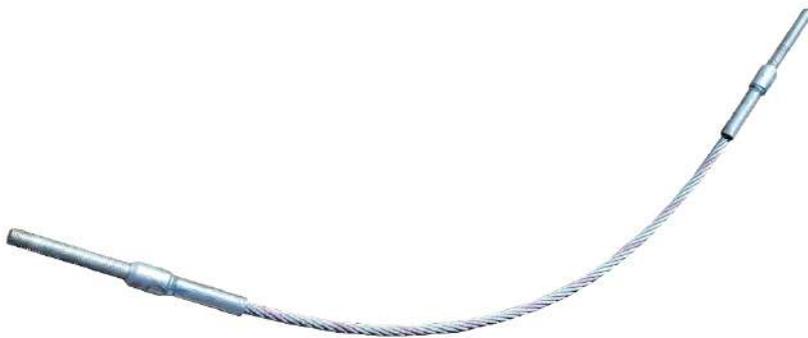
## MSKT Parts: Cable Parts



**E750**

Bearing Plate

5/8" x 8" x 8"



**E770**

Cable Assembly



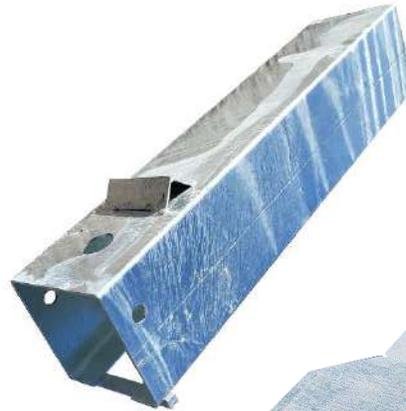
**S760**

Cable Anchor Box

## MSKT Parts: First and Second Post

### MTPHP1A

MASH Two Post Hinge Post  
#1 Upper



### MTPHP1B

MASH Two Post Hinge Post  
#1 Lower



### UHP2A

Universal Hinge Post #2  
Upper

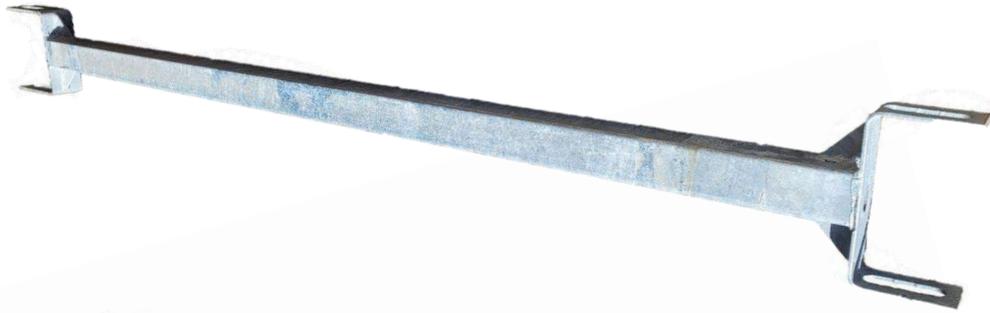


### HP2B

Hinge Post #2  
Lower



## MSKT Parts: Strut and Downline Post



**MS785**

MASH Strut



**P621**

Steel Line Post



**CBSP-14**

Steel Post Composite

Block 14"

# Hardware

## MSKT Hardware:

	B5160104 A	5/16 X 1 HEX BOLT GR.5	2
	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	25
	B580904A	5/8" x 9" HEX. HD. BOLT GR. 5	2
	B340854A	3/4 X 8 1/2" HEX HEAD BOLT GR. 5	1
	B581002	5/8" x 10" HGR POST BOLT	6
	N0516	5/16 HEX NUTS	2
	N050	5/8" HGR. NUTS	33
	N030	3/4" HEX NUTS	1

## MSKT Hardware:

	W0516	5/16 WASHERS	4
	W050	5/8" WASHERS	3
	N100A	1" HEX NUT ( ANCHOR CABLE )	2
	W100A	1" WASHER ( ANCHOR CABLE )	2
	CBH	Bag of Shoulder Bolts (8 bolts,8 nuts, 8 Flatwashers)	1
	CT-100 ST	STEEL CABLE TIE	1

# SKT-350



The SKT (Sequential Kinking Terminal) is an energy absorbing tangent terminal.

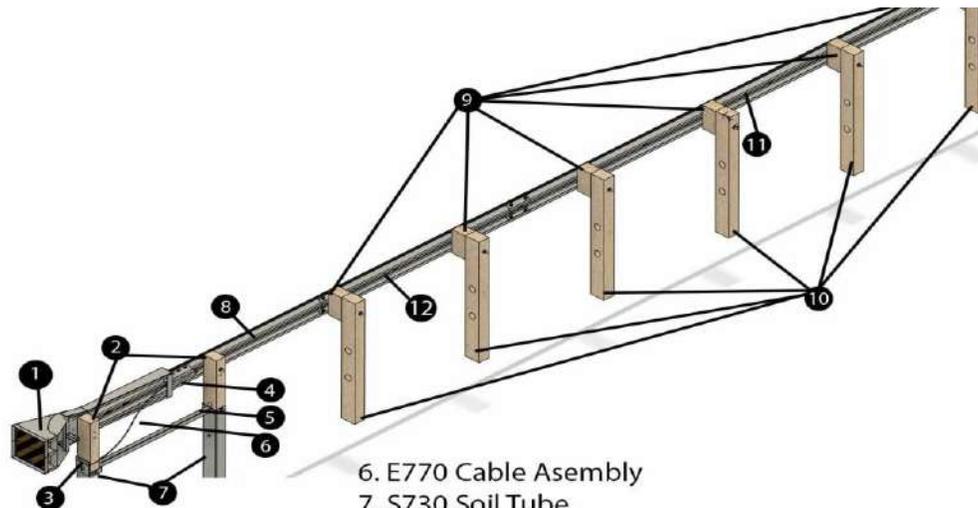
The SKT is 50'-0" long and has 8 breakaway posts. NCHRP-350 APPROVED!

During head-on impacts, the SKT head slides over the W-Beam guardrail. The rail is sequentially kinked or bent as it moves through the head. The kinked guardrail exits the head safely and the vehicle is brought to a controlled stop. When impacted along the side within the length-of-need, the SKT functions like guardrail. The errant vehicle is safely redirected back toward its original travel path.

Post options include steel posts or timber posts. Timber post options include: Type I (2 tubes), Type II (4 tubes), or Type III (8 tubes).

The MSKT's impact head can be used on existing in-place NCHRP 350 SKT systems for maintenance repairs. These systems will need to be maintained for many years to come. By being able to use the MSKT impact head for maintenance of both existing NCHRP 350 systems and new MASH installations, only the MSKT impact head will need to be inventoried. Please note, using a MSKT impact head on an older system does not make that system MASH compliant.

# SKT-350 31" Type 1



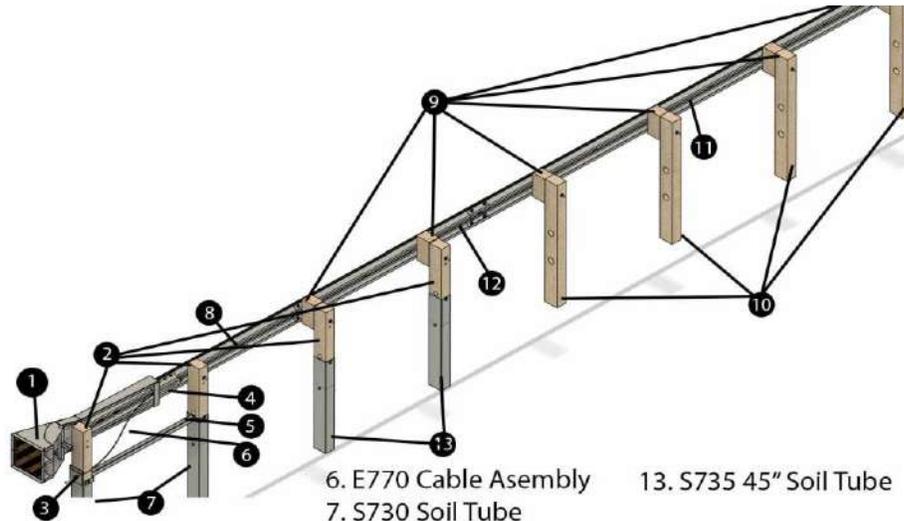
- 1. MS3000 MSKT Head
- 2. UP650 Timber Post
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. E780 Ground Strut
- 6. E770 Cable Assembly
- 7. S730 Soil Tube
- 8. SF1303 SKT Rail
- 9. P675 Timber Block
- 10. UP671 Breakaway Post
- 11. G1209 Rail
- 12. G12025 Rail

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	24
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580754	5/8" x 7 1/2" HEX. HD. BOLT	2
SF1303	GUARDRAIL 12/12' 6" <b>SKT Panel</b>	1	B581004	5/8" x 10" HEX. HD. BOLT	2
G12025	GUARDRAIL 12/9' 4-1/2/3' 1-1/2"	1	B581002	5/8" x 10" HGR POST BOLT	1
G1209	GUARDRAIL 12/25'/3' 1/2	1	B581802	5/8" x 18" HGR POST BOLT	6
S730	STEEL TUBE - 6" x 8" x 3/16" x 6'-0"	2	N050	5/8" HGR. Nut	35
E740	PIPE SLEEVE - 2" STD. PIPE x 5 1/2"	1	W050	5/8" WASHERS	11
E750	BEARING PLATE - 5/8" x 8" x 8"	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
S760	CABLE ANCHOR BOX ( <b>SKT</b> )	1	W100A	1" WASHER ( ANCHOR CABLE )	2
E770	CABLE ASSEMBLY	1	E350	3/8" x 3" LAG SCREW	2
E780	GROUNDING STRUT	1	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8 washers)	1
UP650	WOOD POSTS - 5 1/2" x 7 1/2" x 45"	2	CT-100 ST	STEEL CABLE TIE	1
UP671	WOOD CRT POSTS - 6" x 8" x 6'-0"	6			
P675	WOOD BLOCKOUTS - 6" x 8" x 14"	6			

# SKT-350 31" Type 2



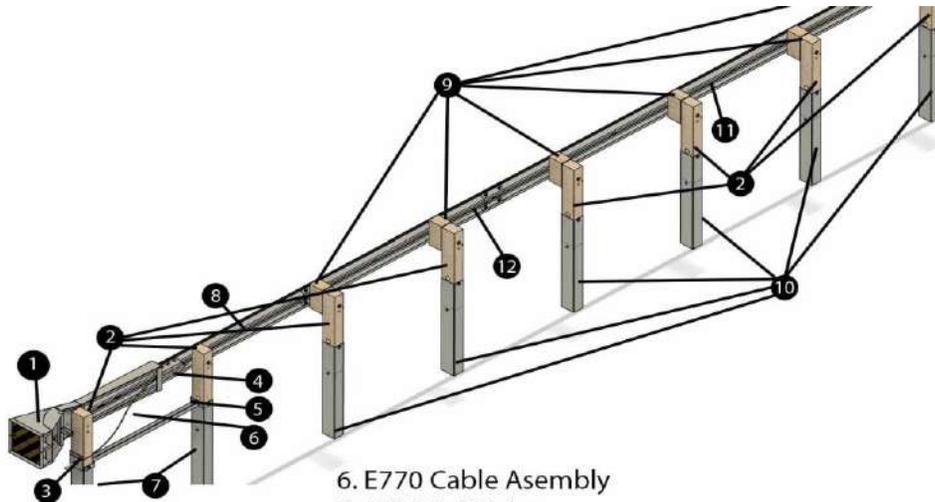
- 1. MS3000 MSKT Head
- 2. UP650 Timber Post
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. E780 Ground Strut
- 6. E770 Cable Assembly
- 7. S730 Soil Tube
- 8. SF1303 SKT Rail
- 9. P675 Timber Block
- 10. UP671 Breakaway Post
- 11. G1209 Rail
- 12. G12025 Rail
- 13. S735 45" Soil Tube

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	24
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580754	5/8" x 7 1/2" HEX. HD. BOLT	4
SF1303	GUARDRAIL 12/12' 6" <b>SKT Panel</b>	1	B581004	5/8" x 10" HEX. HD. BOLT	4
G12025	GUARDRAIL 12/9' 4-1/2/3' 1-1/2"	1	B581002	5/8" x 10" HGR POST BOLT	1
G1209	GUARDRAIL 12/25'/3' 1/2"	1	B581802	5/8" x 18" HGR POST BOLT	6
S730	STEEL TUBE - 6" x 8" x 1/8" x 6'-0"	2	N050	5/8" HGR NUT	39
S735	STEEL TUBE - 6" x 8" x 1/8" x 4'-6"	2	W050	5/8" WASHERS	15
E740	PIPE SLEEVE - 2" STD. PIPE x 5 1/2"	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
E750	BEARING PLATE - 5/8" x 8" x 8"	1	W100A	1" WASHER ( ANCHOR CABLE )	2
S760	SKT CABLE ANCHOR BOX ( <b>SKT</b> )	1	E350	3/8" x 3" LAG SCREW	2
E770	CABLE ASSEMBLY	1	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8 washers)	1
E780	GROUNDING STRUT	1	CT-100 ST	STEEL CABLE TIE	1
UP650	WOOD POSTS - 5 1/2" x 7 1/2" x 45"	4			
UP671	WOOD CRT POSTS - 6" x 8" x 6'-0"	4			
P675	WOOD BLOCKOUTS - 6" x 8" x 14"	6			

# SKT-350 31" Type 3



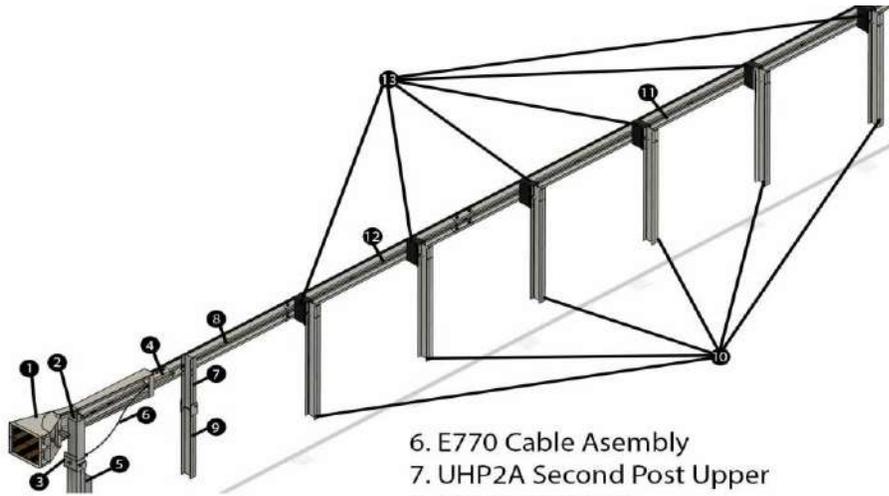
- 1. MS3000 MSKT Head
- 2. UP650 Timber Post
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. E780 Ground Strut
- 6. E770 Cable Assembly
- 7. S730 Soil Tube
- 8. SF1303 SKT Rail
- 9. P675 Timber Block
- 10. S735 45" Soil Tube
- 11. G1209 Rail
- 12. G12025 Rail

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	24
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580754	5/8" x 7 1/2" HEX. HD. BOLT	8
SF1303	GUARDRAIL 12/12' 6" <b>SKT Panel</b>	1	B581004	5/8" x 10" HEX. HD. BOLT	8
G12025	GUARDRAIL 12/9' 4-1/2/3' 1-1/2"	1	B581002	5/8" x 10" HGR POST BOLT	1
G1209	GUARDRAIL 12/25'3' 1/2"	1	B581802	5/8" x 18" HGR POST BOLT	6
S730	STEEL TUBE - 6" x 8" x 1/8" x 6'-0"	2	N050	5/8" HGR NUT	47
S735	STEEL TUBE - 6" x 8" x 1/8" x 4'-6"	6	W050	5/8" WASHERS	23
E740	PIPE SLEEVE - 2" STD. PIPE x 5 1/2"	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
E750	BEARING PLATE - 5/8" x 8" x 8"	1	W100A	1" WASHER ( ANCHOR CABLE )	2
S760	CABLE ANCHOR BOX ( <b>SKT</b> )	1	E350	3/8" x 3" LAG SCREW	2
E770	CABLE ASSEMBLY	1	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8 washers)	1
E780	GROUNDING STRUT	1	CT-100 ST	STEEL CABLE TIE	1
UP650	WOOD POSTS - 5 1/2" x 7 1/2" x 45"	8			
P675	WOOD BLOCKOUTS - 6" x 8" x 14"	6			

# SKT-350 31" Steel Post



- 1. MS3000 MSKT Head
- 2. TPHP1A First Post Upper
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. TPHP1B First Post Lower

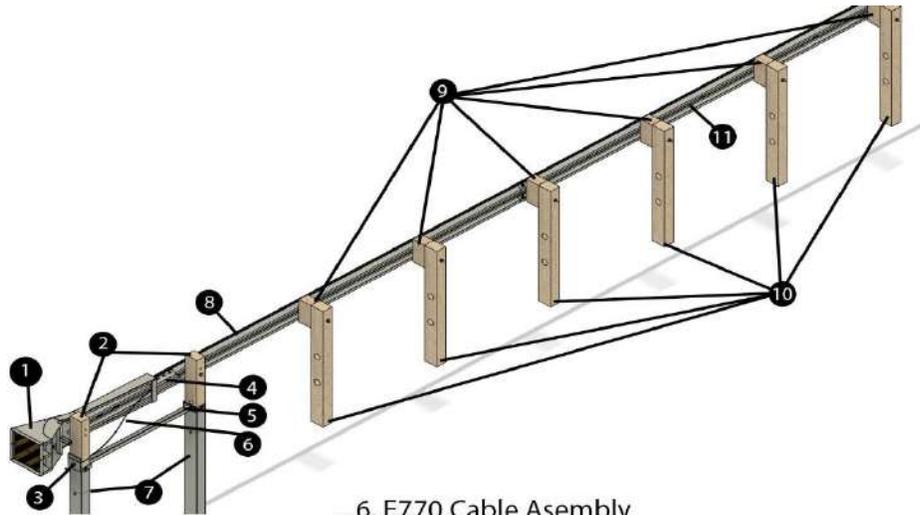
- 6. E770 Cable Assembly
- 7. UHP2A Second Post Upper
- 8. SF1303 SKT Rail
- 9. Second Post Lower
- 10. P621 Steel Post
- 11. G1209 Rail
- 12. G12025 Rail
- 13. CBSP-14 Composite Blocks

## Parts:

## Hardware:

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B5160104A	5/16 X 1 HEX BOLT GR 5	2
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	25
SF1303	GUARDRAIL 12/12' 6" <b>SKT Panel</b>	1	B580904A	5/8" x 9" HEX. HD. BOLT GR. 5	1
G12025	GUARDRAIL 12/9' 4-1/2' 3' 1-1/2"	1	B340854A	3/4 X 8 1/2" HEX HEAD BOLT GR. 5	1
G1209	GUARDRAIL 12/25' 3' 1/2	1	B581002	5/8" x 10" HGR POST BOLT	6
E750	BEARING PLATE - 5/8" x 8" x 8"	1	N0516	5/16 HEX NUTS	2
S760	CABLE ANCHOR BOX ( <b>SKT</b> )	1	N050	5/8" HGR. NUTS	31
E770	CABLE ASSEMBLY	1	N055	5/8" HEX NUTS	1
TPHP1A	TWO POST HINGE POST # 1 UPPER	1	N030	3/4" HEX NUTS	1
TPHP1B	TWO POST HINGE POST # 1 LOWER	1	W0516	5/16 WASHERS	4
UHP2A	UNIVERSAL HINGE POST # 2 UPPER	1	W050	5/8" WASHERS	9
HP3B	HINGE POST # 3 LOWER	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
P621	STEEL LINE POST	6	W100A	1" WASHER ( ANCHOR CABLE )	2
CBSP-14	STEELCOMPOSIT BLOCK 14"	6	CBH	Bag of Shoulder Bolts ( 8 bolts, 8 nuts, 8 washers)	1
			CT-100 ST	STEEL CABLE TIE	1

# SKT-350 28" Type 1



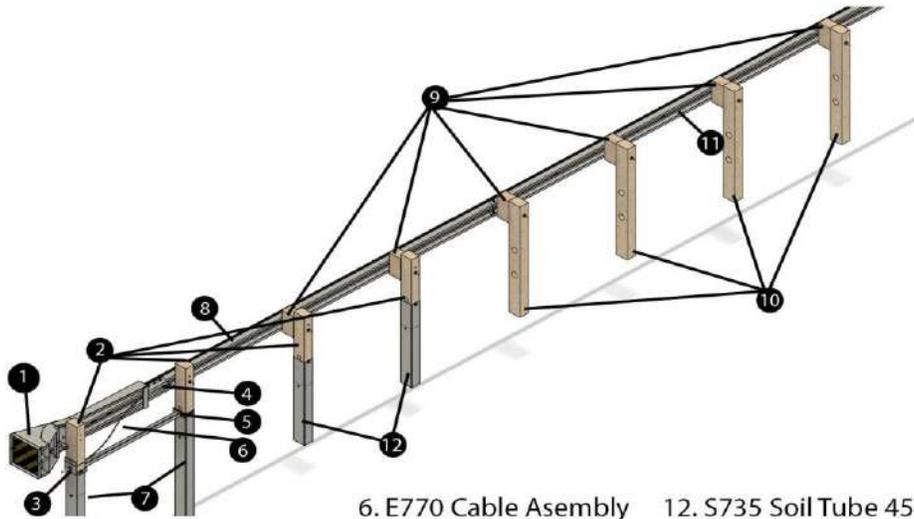
- 1. MS3000 MSKT Head
- 2. UP650 Timber Post
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. E780 Ground Strut
- 6. E770 Cable Assembly
- 7. S730 Soil Tube
- 8. SF1305 SKT Rail
- 9. P675 Timber Block
- 10. UP671 Timber Post
- 11. G1209 Rail

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	16
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580754	5/8" x 7 1/2" HEX. HD. BOLT	2
SF1305	GUARDRAIL 12//25/6' 3" SKT Panel	1	B581004	5/8" x 10" HEX. HD. BOLT	2
G1209	GUARDRAIL 12/25/6' 3"	1	B581002	5/8" x 10" HGR POST BOLT	1
S730	STEEL TUBE - 6" x 8" x 3/16" x 6'-0"	2	B581802	5/8" x 18" HGR POST BOLT	6
E740	PIPE SLEEVE - 2" STD. PIPE x 5 1/2"	1	N050	5/8" HGR. Nut	27
E750	BEARING PLATE - 5/8" x 8" x 8"	1	W050	5/8" WASHERS	11
S760	CABLE ANCHOR BOX (SKT)	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
E770	CABLE ASSEMBLY	1	W100A	1" WASHER ( ANCHOR CABLE )	2
E780	GROUNDING STRUT	1	E350	3/8" x 3" LAG SCREW	2
UP650	WOOD POSTS - 5 1/2" x 7 1/2" x 45"	2	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8 washers)	1
UP671	WOOD CRT POSTS - 6" x 8" x 6'-0"	6	CT-100 ST	STEEL CABLE TIE	1
P675	WOOD BLOCKOUTS - 6" x 8" x 14"	6			

# SKT-350 28" Type 2



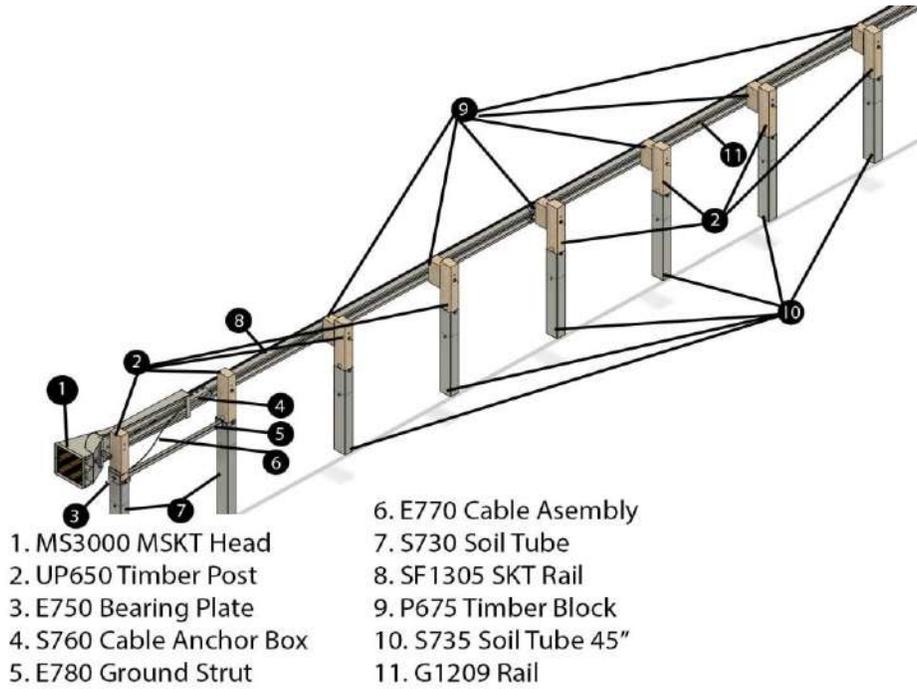
- 1. MS3000 MSKT Head
- 2. UP650 Timber Post
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. E780 Ground Strut
- 6. E770 Cable Assembly
- 7. S730 Soil Tube
- 8. SF1305 SKT Rail
- 9. P675 Timber Block
- 10. UP671 Timber Post
- 11. G1209 Rail
- 12. S735 Soil Tube 45"

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	16
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580754	5/8" x 7 1/2" HEX. HD. BOLT	4
SF1305	GUARDRAIL 12//25/6' 3" SKT Panel	1	B581004	5/8" x 10" HEX. HD. BOLT	4
G1209	GUARDRAIL 12/25/6' 3"	1	B581002	5/8" x 10" HGR POST BOLT	1
S730	SOIL TUBE - 6" x 8" x 3/16" x 6'-0"	2	B581802	5/8" x 18" HGR POST BOLT	6
S735	SOIL TUBE - 6" x 8" x 1/8" x 4' 6"	2	N050	5/8" HGR. Nut	31
E740	PIPE SLEEVE - 2" STD. PIPE x 5 1/2"	1	W050	5/8" WASHERS	15
E750	BEARING PLATE - 5/8" x 8" x 8"	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
S760	CABLE ANCHOR BOX (SKT)	1	W100A	1" WASHER ( ANCHOR CABLE )	2
E770	CABLE ASSEMBLY	1	E350	3/8" x 3" LAG SCREW	2
E780	GROUNDING STRUT	1	CBH	Bag of Shoulder Bolts ( 8 bolts, 8 nuts, 8 washers)	1
UP650	WOOD POSTS - 5 1/2" x 7 1/2" x 45"	4	CT-100 ST	STEEL CABLE TIE	1
UP671	WOOD CRT POSTS - 6" x 8" x 6'-0"	4			
P675	WOOD BLOCKOUTS - 6" x 8" x 14"	6			

# SKT-350 28" Type 3



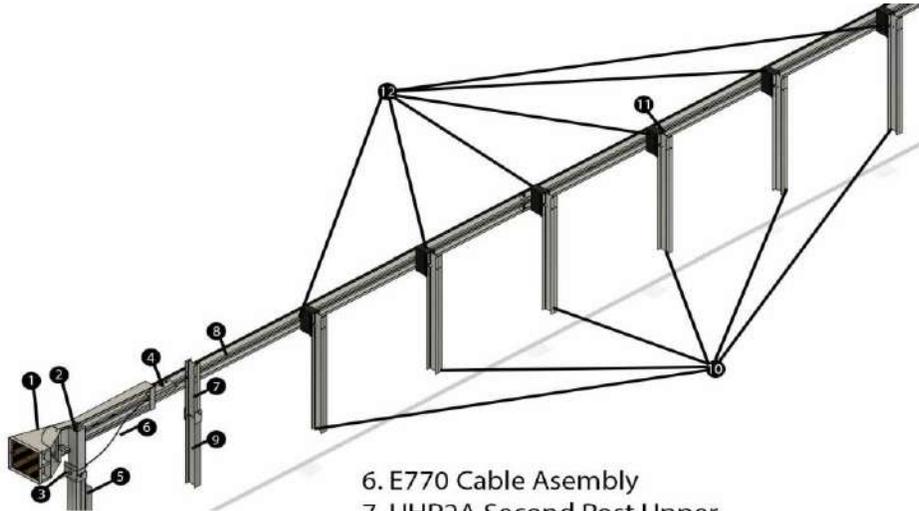
- 1. MS3000 MSKT Head
- 2. UP650 Timber Post
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. E780 Ground Strut
- 6. E770 Cable Assembly
- 7. S730 Soil Tube
- 8. SF1305 SKT Rail
- 9. P675 Timber Block
- 10. S735 Soil Tube 45"
- 11. G1209 Rail

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	16
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580754	5/8" x 7 1/2" HEX. HD. BOLT	8
SF1305	GUARDRAIL 12//25/6' 3" <b>SKT Panel</b>	1	B581004	5/8" x 10" HEX. HD. BOLT	8
G1209	GUARDRAIL 12/25/3' 1/2"	1	B581002	5/8" x 10" HGR POST BOLT	1
S730	SOIL TUBE - 6" x 8" x 3/16" x 6'-0"	2	B581802	5/8" x 18" HGR POST BOLT	6
S735	SOIL TUBE - 6" x 8" x 1/8" x 4' 6"	6	N050	5/8" HGR. Nut	39
E740	PIPE SLEEVE - 2" STD. PIPE x 5 1/2"	1	W050	5/8" WASHERS	23
E750	BEARING PLATE - 5/8" x 8" x 8"	1	N100A	1" HEX NUT ( ANCHOR CABLE )	2
S760	CABLE ANCHOR BOX (SKT)	1	W100A	1" WASHER ( ANCHOR CABLE )	2
E770	CABLE ASSEMBLY	1	E350	3/8" x 3" LAG SCREW	2
E780	GROUNDING STRUT	1	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8	1
UP650	WOOD POSTS - 5 1/2" x 7 1/2" x 45"	8	CT-100 ST	STEEL CABLE TIE	1
P675	WOOD BLOCKOUTS - 6" x 8" x 14"	6			

# SKT-350 28" Steel Post



- 1. MS3000 MSKT Head
- 2. TPHP1A First Post Upper
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. TPHP1B First Post Lower

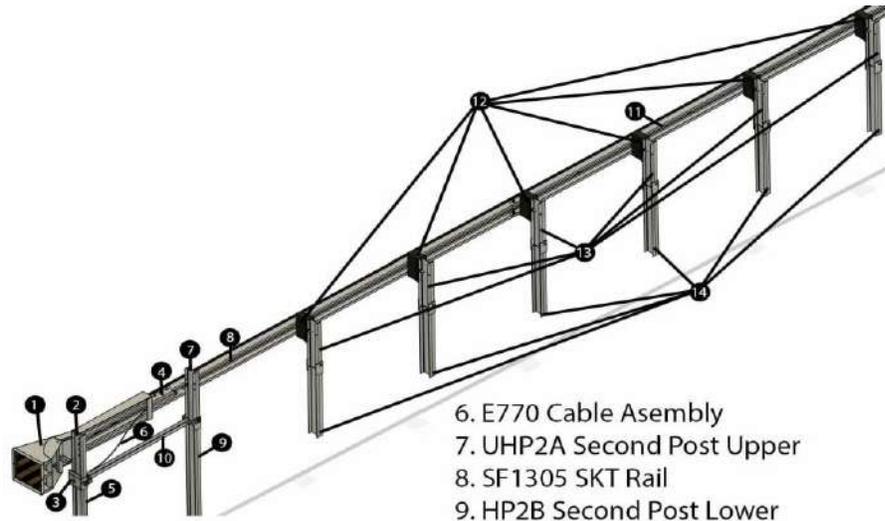
- 6. E770 Cable Assembly
- 7. UHP2A Second Post Upper
- 8. SF1305 SKT Rail
- 9. Second Post Lower
- 10. P621 Steel Post
- 11. G1209 Rail
- 12. CBSP-14 Composite Block

**Parts:**

**Hardware:**

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B5160104A	5/16 X 1 HEX BOLT GR.5	2
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	17
SF1305	GUARDRAIL 12//25/6' 3" <b>SKT Panel</b>	1	B580904A	5/8" x 9" HEX. HD. BOLT GR. 5	1
G1209	GUARDRAIL 12/25/3' 1/2"	1	B340854A	3/4 X 8 1/2" HEX HEAD BOLT GR. 5	1
E750	BEARING PLATE - 5/8" x 8" x 8"	1	B581002	5/8" x 10" HGR POST BOLT	6
S760	CABLE ANCHOR BOX ( <b>SKT</b> )	1	N0516	5/16 HEX NUTS	2
E770	CABLE ASSEMBLY	1	N050	5/8" HGR. NUTS	23
TPHP1A	TWO POST HINGE POST # 1 UPPER	1	N055	5/8" HEX NUTS	1
TPHP1B	TWO POST HINGE POST # 1 LOWER	1	N030	3/4" HEX NUTS	1
UHP2A	UNIVERSAL HINGE POST # 2 UPPER	1	W0516	5/16 WASHERS	4
HP3B	HINGE POST # 3 LOWER	1	W050	5/8" WASHERS	9
P621	STEEL LINE POST	6	N100A	1" HEX NUT ( ANCHOR CABLE )	2
CBSP-14	STEELCOMPOSIT BLOCK 14"	6	W100A	1" WASHER ( ANCHOR CABLE )	2
			CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8	1
			CT-100 ST	STEEL CABLE TIE	1

# SKT-350 28" Hinged Breakaway Post System



- 1. MS3000 MSKT Head
- 2. TPHP1A First Post Upper
- 3. E750 Bearing Plate
- 4. S760 Cable Anchor Box
- 5. TPHP1B First Post Lower

- 6. E770 Cable Assembly
- 7. UHP2A Second Post Upper
- 8. SF1305 SKT Rail
- 9. HP2B Second Post Lower
- 10. S785
- 11. G1209 Rail
- 12. CBSP-14 Composite Block
- 13. HP3A Hinge Post 3 Upper
- 14. HP3B Hinge Post 3 Lower

## Parts:

## Hardware:

Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
MS3000	SKT IMPACT HEAD	1	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	17
E3151	OBJECT MARKER - ( 18" x 18" )	1	B580904A	5/8" x 9" HEX. HD. BOLT GR. 5	1
SF1305	GUARDRAIL 12//25/6' 3" <b>SKT Panel</b>	1	B581002	5/8" x 10" HGR POST BOLT	6
G1209	GUARDRAIL 12/25/6' 3"	1	B340854A	3/4" x 8 1/2" HEX HEAD BOLT GR. 5	7
E750	BEARING PLATE - 5/8" x 8" x 8"	1	B5160304A	5/16" x 3" HEX HEAD BOLT GR. 5	2
S760	CABLE ANCHOR BOX ( <b>SKT</b> )	1	N050	5/8" HGR. NUT	23
E770	CABLE ASSEMBLY	1	N055	5/8" HEX NUT	1
S785	GROUNDING STRUT FOR HINGE POST	1	W050	5/8" WASHERS	9
UHP1A	HINGE POST #1 UPPER	1	N030	3/4" HEX NUT	7
HP1B	HINGE POST #1 LOWER	1	W030	3/4" WASHER	2
UHP2A	UNIVERSAL HINGE POST #2 UPPER	1	N014	1/4" NUT	2
HP2B	HINGE POST #2 LOWER	1	W014	1/4" WASHER	4
HP3A	HINGE POST #3 UPPER	6	N100A	1" HEX NUT ( ANCHOR CABLE )	2
HP3B	HINGE POST #3 LOWER	6	W100A	1" WASHER ( ANCHOR CABLE )	2
CBSP-14	COMPOSITE PLOCK FOR STEEL POST	6	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8 washers)	1
			CT-100 ST	STEEL CABLE TIE	1

**SKT-350 Parts:**

**MS3000**

SKT Impact Head



**E3151**

Object Marker

18" X 18"



## SKT-350 Parts:

Guardrail for 31" Standard			Guardrail for 28" Standard		
Item	Length	Hole Spacing	ITEM	Length	Hole Spacing
SF1303	12' 6"	6' 3"	SF1305	25'	6' 3"
G12025	9' 4.5"	3' 1.5"	G1209	25'	3' 1.5"
G1209	25'	3' 1.5"	G1205	25'	6' 3"



**SF 1303**

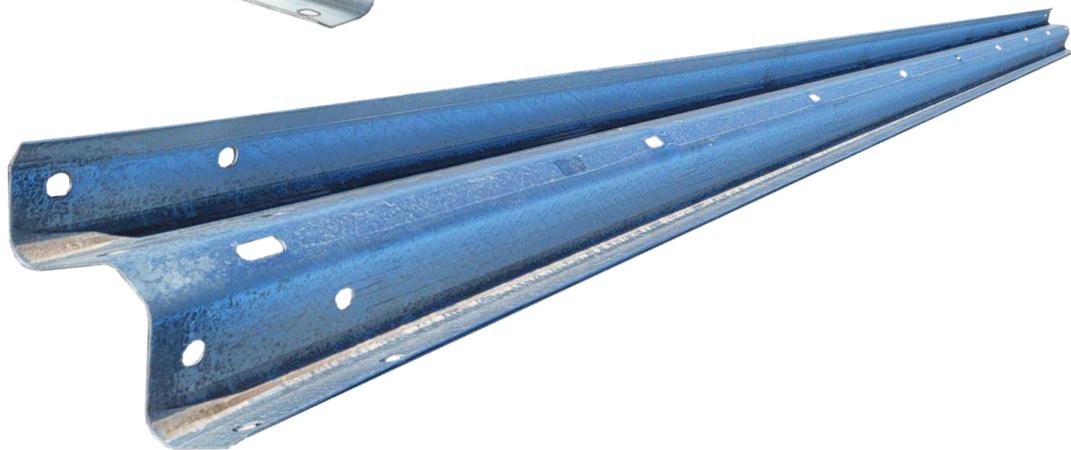
**SF1305**

12 / 12'6" / 6'3"

12 / 25' / 6'3"

**G1209**

12 / 25' / 3' 1.5"



**G12025**

12 / 9' 4-1/2" / 3' 1-1/2"



**SKT-350 Parts:**



**E740**

Pipe Sleeve

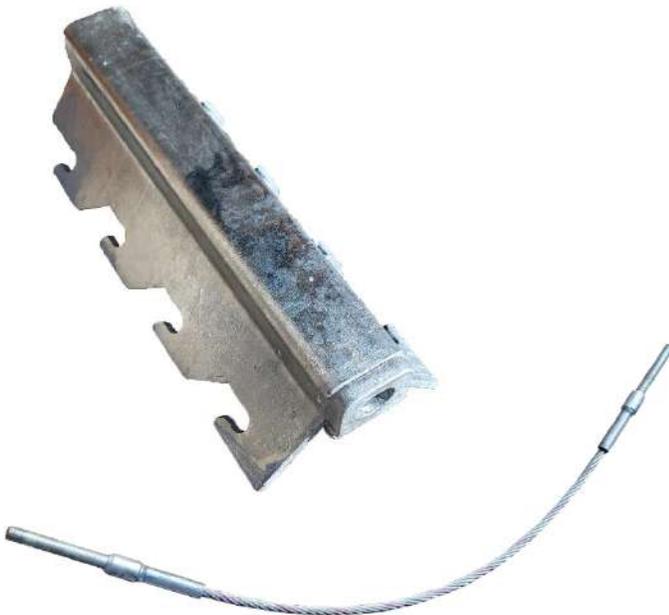
**E750**

Bearing Plate

5/8" x 8" x 8"

**S760**

Cable Anchor Box



**E770**

Cable Assembly

**SKT-350 Parts:**

**UP650**

Universal BCT Post  
45"



**UP671**

Universal CRT Post  
6'

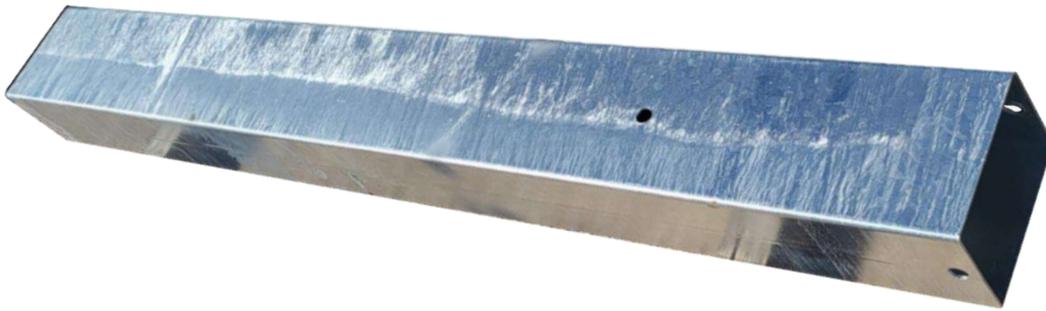


**P675**

Timber Block  
6x8x14"



**SKT-350 Parts:**



**S730**

Soil Tube  
6x8x1/8" x 6'

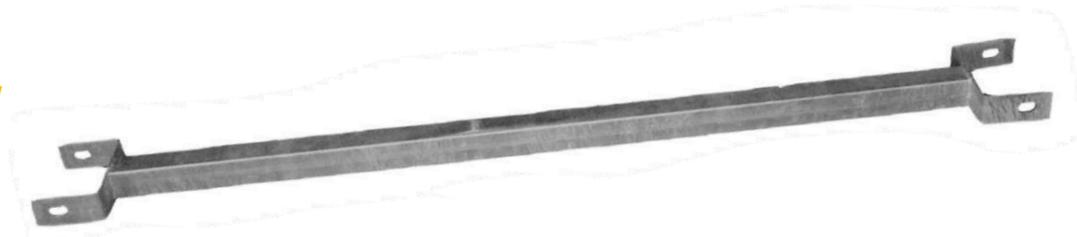


**S735**

Soil Tube  
6x8x1/8" x 4'6"

**E780**

Ground Line Strut



**S785**

Steel Hinge Post  
Strut



**SKT-350 Parts:**

**TPHP1A**

Two Post Hinge Post  
#1 Upper



**TPHP1B**

Two Post Hinge Post  
#1 Lower



SKT-350 Parts:

**UHP1A**

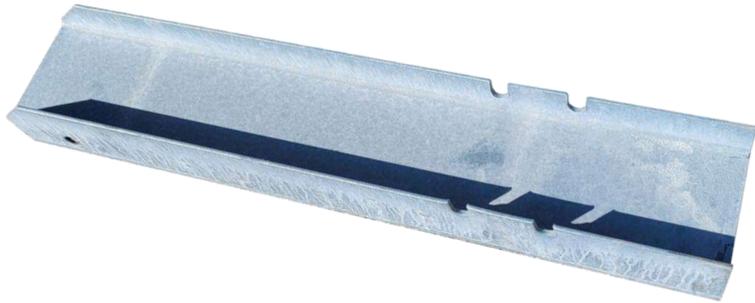
Universal Hinge Post  
#1 Upper

**HP1B**

Hinge Post Hinge Post  
#1 Lower



**SKT-350 Parts:**



**UHP2A**  
Universal Hinge Post  
#2 Upper



**HP2B\***  
Hinge Post  
#2 Lower



**HP3A\***  
Hinge Post  
#3 Upper



**HP3B**  
Hinge Post  
#3 Lower

\* Used Only in Maintenance Jobs

**SKT-350 Parts:**



**P621**

Steel Line Post



**CBSP-14**

Steel Post Composite

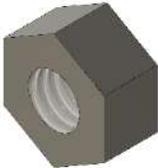
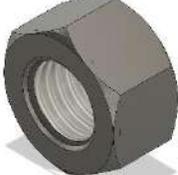
Block 14"

# Hardware

## SKT-350 Hardware:

	B5160104A	5/16 X 1 HEX BOLT GR.5
	B580122	5/8" x 1 1/4" HGR SPLICE BOLT
	B580754	5/8" x 7 1/2" HEX. HD. BOLT
	B580904A	5/8" x 9" HEX. HD. BOLT GR. 5
	B581004	5/8" x 10" HEX. HD. BOLT
	B581002	5/8" x 10" HGR POST BOLT
	B581802	5/8" x 18" HGR POST BOLT
	B340854A	3/4" x 8 1/2" HEX HEAD BOLT GR. 5

## SKT-350 Hardware:

	B5160304A	5/16" x 3" HEX HEAD BOLT GR. 5
	N0516	5/16 HEX NUTS
	W0516	5/16 WASHERS
	N050	5/8" HGR. NUT
	N055	5/8" HEX NUT
	W050	5/8" WASHERS
	N030	3/4" HEX NUT

## SKT-350 Hardware:

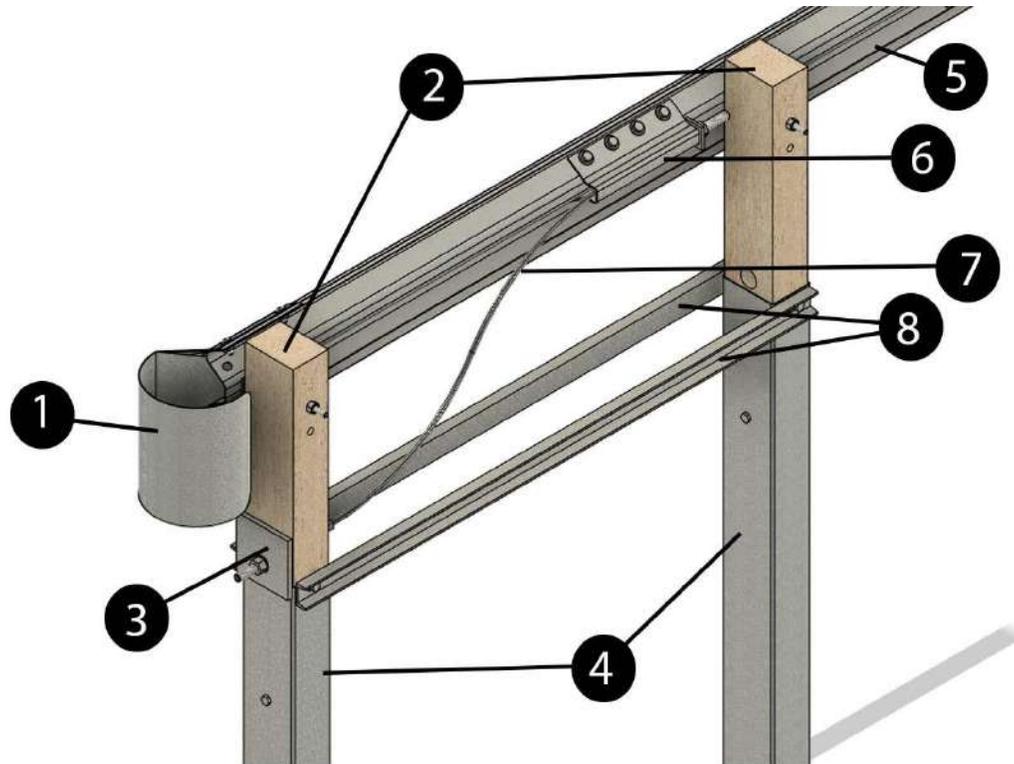
	W030	3/4" WASHER
	N014	1/4" NUT
	W100A	1" WASHER (ANCHOR CABLE)
	E350	3/8" x 3" LAG SCREW
	CBH	Bag of Shoulder Bolts (8 bolts, 8 nuts, 8 washers)
	CT-100 ST	STEEL CABLE TIE

# Downstream Anchor Terminal



The Downstream Anchor Terminal (DAT) system is a non-proprietary design for anchoring 31" rail. It is not intended to be hit head on and therefore should only be used on the trailing end of a piece of guardrail.

## DAT System Diagram:



- |                              |                           |
|------------------------------|---------------------------|
| 1. T503 Buffered end Section | 5. G12025TR Terminal Rail |
| 2. UP650 45" Wood Posts      | 6. D760 Dat Anchor Box    |
| 3. E750 Bearing Plate        | 7. E770 Cable Assembly    |
| 4. S730 Soil Tube            | 8. D780 Channel Struts    |

## DAT System Bill of Materials:

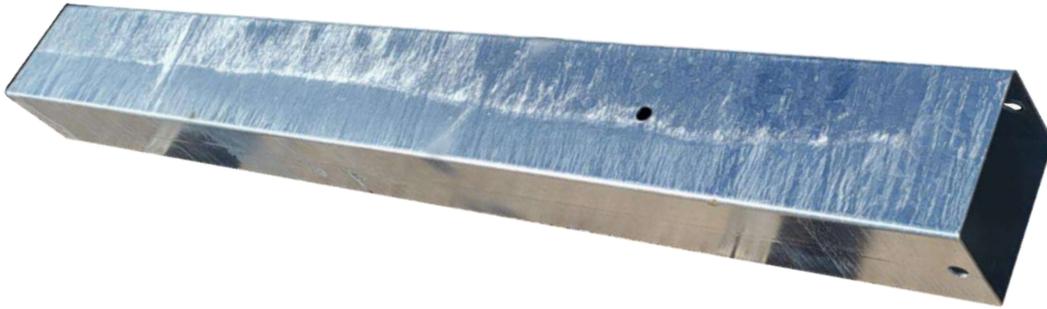
### Parts:

<b>Item #:</b>	<b>Description:</b>	<b>Quantity:</b>
S730	SOIL TUBE 6'	2
UP650	UNIVERSAL TIMBER POST 45"	2
G12025TR	TERMINAL RAIL ELEMENT	1
DAT-SB	SHELF ANGLE BRACKET	1
E740	PIPE SLEEVE	1
E750	BEARING PLATE	1
D760	CABLE ANCHOR BRACKET	1
E770	CABLE ASSEMBLY	1
D780	CHANNEL STRUT	2
T503	BUFFER END SECTION	1

### Hardware:

<b>Item #:</b>	<b>Description</b>	<b>Quantity:</b>
B580122	5/8" x 1 1/4" HGR SPLICE BOLT	12
B580204	5/8" X 2" HEX HD. BOLT	8
B580754	5/8" x 7 1/2" HEX HD. BOLT	2
B581004	5/8" X 10" HEX HD BOLT	2
B581002	5/8" x 10" HGR POST BOLT	2
N050	5/8 HGR NUTS	26
W050	5/8 WASHERS	16
N100A	1" NUTS	2
W100A	1" WASHERS	2

**DAT Parts:**



**S730**

Soil Tube  
6x8x1/8" x 6'

**UP650**

Universal Timber Post  
45"



**G12025TR**

12 / 9' 4-1/2" / 3' 1-1/2"

**DAT-SB**

Shelf Angle Bracket



## DAT Parts:

**E740**

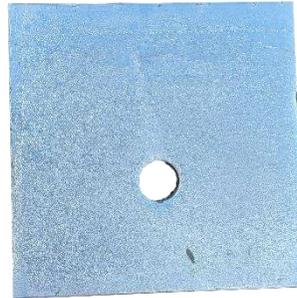
Pipe Sleeve



**E750**

Bearing Plate

5/8" x 8" x 8"



**D760**

Cable Anchor Bracket



**E770**

Cable Assembly



**DAT Parts:**

**D780**

Channel Strut



**T503**

Buffered End Section



# Hardware

## DAT Hardware:

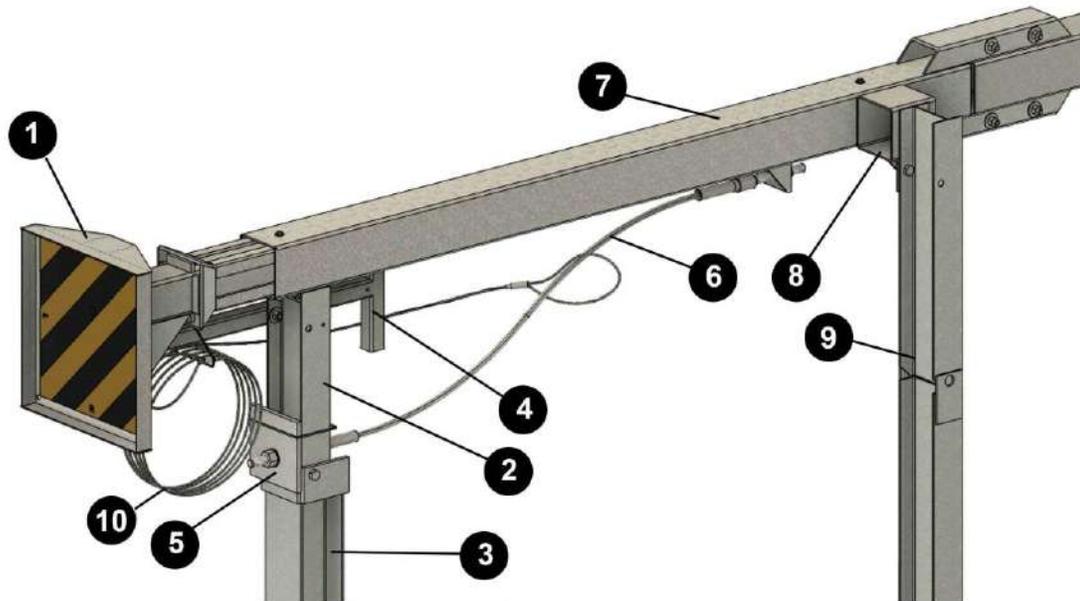
	B580122	5/8" x 1 1/4" HGR SPLICE BOLT	12
	B580204	5/8" X 2" HEX HD. BOLT	8
	B580754	5/8" x 7 1/2" HEX HD. BOLT	2
	B581004	5/8" X 10" HEX HD BOLT	2
	B581002	5/8" x 10" HGR POST BOLT	2
	N050	5/8 HGR NUTS	26
	W050	5/8 WASHERS	16
	N100A	1" NUTS	2
	W100A	1" WASHERS	2

# BEAT - SSCC

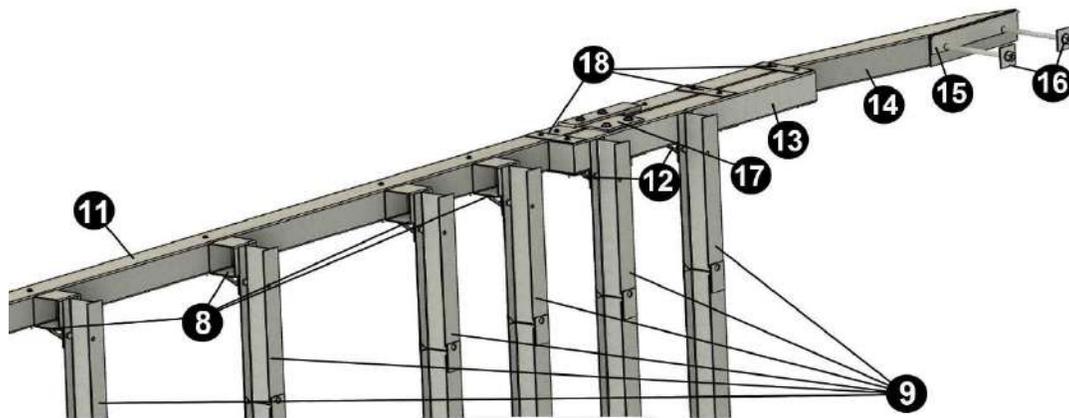


Box Beam Bursting Energy Absorbing Terminal – Single-Sided Crash Cushion The BEAT-SSCC offers a low cost option to protect the ends of rigid barriers. There is an option for driven ground mounted posts or surface mounted posts anchored to a concrete foundation. Variable lengths of 28', 32', 36', 40, 44' for sites needing additional length-of-need are available upon request.

## BEAT-SSCC Diagram:



- |                             |  |
|-----------------------------|--|
| 1: B3000 BEAT Head          | 7. B-SS102 End Tube Rail                     |
| 2. BEAT-UP First Post Upper | 8. B-SS104 Support Bracket with 6x6 Blockout |
| 3. BEAT-LP First Post Lower | 9. PB621 Breakaway Line Post                 |
| 4. BEAT-PB Post Breaker     | 10. C3820 Galvanized Cable                   |
| 5. E750 Bearing Plate       |  |
| 6. E770 Cable Assembly      |  |



- |  |                          |
|--|--------------------------|
| 8. B-SS104 Support Bracket             | 17. B-SS116 Splice Plate |
| 9. PB621 Breakaway Line Post           | 18. B-SS120 Tie Plate    |
| 11. B-SS106 Second Post                |                          |
| 12. B-SS110 Transition Support Bracket |                          |
| 13. B-SS108 Transition Blockout        |                          |
| 14. B-SS114 Anchor Rail                |                          |
| 15. B-SS122 Spacer                     |                          |
| 16. B-SS112 Square Washer              |                          |

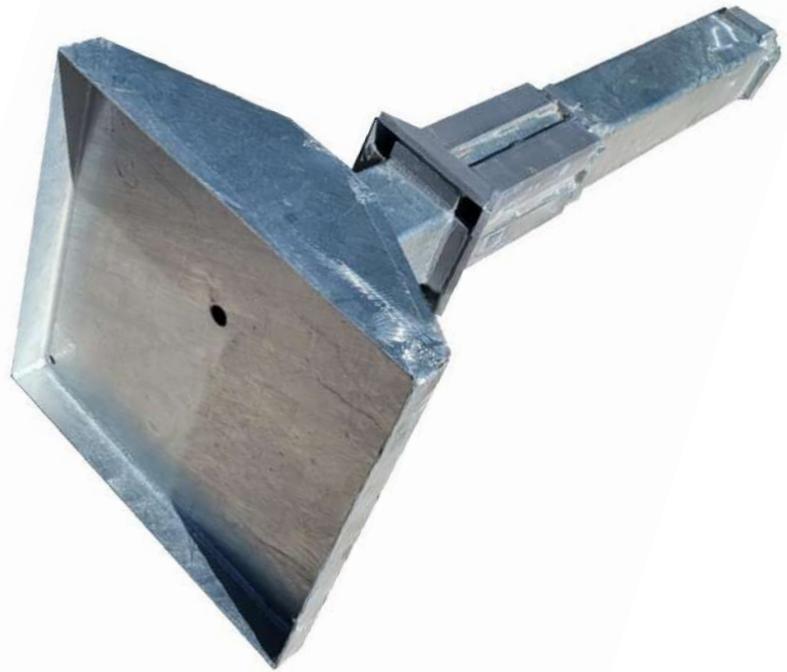
## BEAT-SSCC Bill of Materials:

Parts:			Hardware:		
Item #:	Description:	Quantity:	Item #:	Description:	Quantity:
B3000	BEAT Impact Head	1	B51607504A	5/16" X 7 1/2" HEX HD. BOLT Gr.5	14
E3151	Object Marker	1	B140304	1/4" X 3" HEX HD BOLT	1
BEAT-UP	Upper End Post W6x9 x 1'-9 1/2" LG.	1	B120204A	1/2" X 2" HEX HD BOLT Gr.5 Full Thread	1
BEAT-LP	Lower End Post W6x15 x 8'0" LG.	1	B120504A	1/2" X 5" HEX HD BOLT Gr.5	1
BEAT-SB	Support Bracket 10ga.bent plate	1	B580154	5/8" X 1 1/2" HEX HD BOLT Gr.2	7
BEAT-PB	Post Breaker	1	B580204A	5/8" X 2" HEX HD BOLT Gr.5	4
E750	Bearing Plate - 5/8" x 8" x 8"	1	B580304A	5/8" X 3" HEX HD BOLT Gr.5	1
E770	Cable Assembly	1	B580604A	5/8" x 6" HEX HD BOLT Gr. 5	4
PB621	Steel Breakaway Line Post	7	B580804A	5/8" X 8" HEX HD BOLT Gr.5	1
B-SS102	End Tube Rail TS 6x6x1/8 x 8'-0" LG.	1	B580904A	5/8" X 9" HEX HD BOLT Gr.5	4
B-SS104	Support Bracket with Blockout TS 6x6x3/16 w/bent plt.	5	B101604A	1" x 16 HEX HD BOLT GR.5	2
B-SS106-16	Second Rail TS 6x6x3/16--16'-2 1/2" LG.	1	N0516	5/16" HEX NUT	14
B-SS108	Transition Blockout TS 6x6x3/16--5'-6"	1	N014	1/4" HEX NUT	1
B-SS110	Transition Support Bracket bent plate w/ gusset	2	N012	1/2" HEX NUT	2
B-SS112	1" Square Washer 4x4x1/4"	2	N050	5/8" DR NUT	7
B-SS114	Anchor Rail TS 6x6x3/16--8'-6 13/16" LG.	1	N055	5/8" HEX NUT	18
B-SS116	Splice Plate 10x10x3/8" plate	2	N100A	1" HEAVY HEX NUT Gr. 5	4
B-SS120	Tie Plate 11 1/2 x 3 1/2 x 3/16" plate	6	W0516	5/16" WASHER	28
B-SS122	Spacer	1	W014	1/4" WASHER	1
BP-SC	End Section Splice Channel	2	W012	1/2" WASHER	2
C3820	3/8 galvanized cable x 20'	1	W050	5/8" WASHER	33
			W100A	1" HEAVE WASHER Gr. 5	4
			CT-100 ST	Cable Tie - Steel	2

## BEAT-SSCC Parts: Head

B3000

Impact Head



Object Marker

18" x 18"

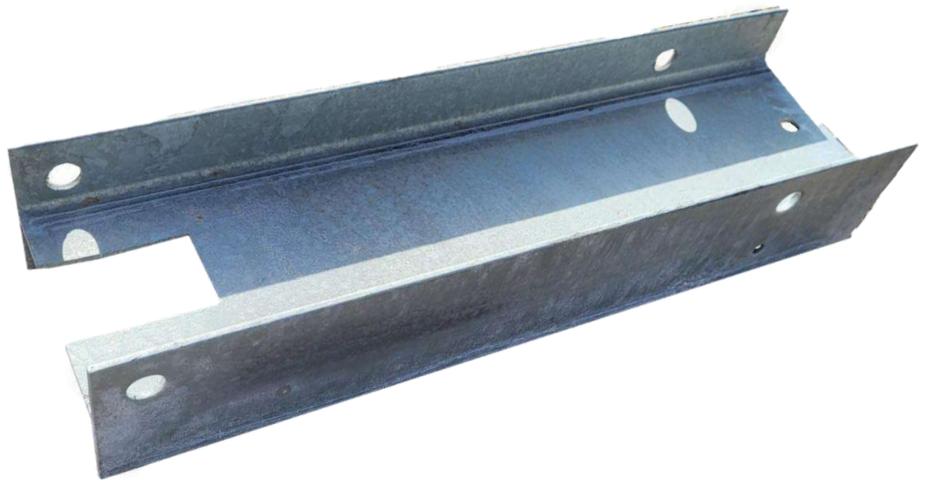


**BEAT-SSCC Parts:**

**BEAT-UP**

Upper End Post

W6x9 x 1' 9.5"



**BEAT-LP**

Lower End Post

W6x15 x 8'



**BEAT-SB**

Support Bracket

10 ga bent plate

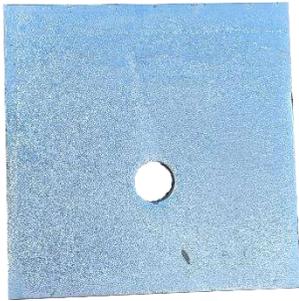


**BEAT-PB**

Post Breaker



BEAT-SSCC Parts:



E750

Bearing Plate

5/8" x 8" x 8"



E770

Cable Assembly



PB621

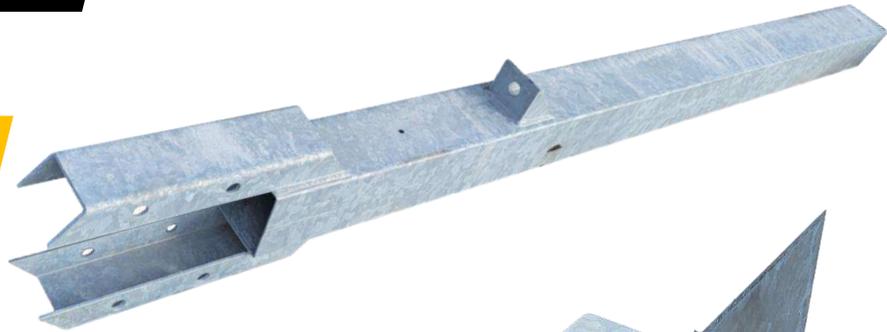
Breakaway Line Post

## BEAT-SSCC Parts:

B-SS102

End Tube Rail

6x6x1/8" 8'



B-SS104

Support Bracket w/ Blockout

6x6x3/16"



B-SS106-16

Second Rail

6x6x3/16" 16' 2.5"



B-SS108

Transition Blockout

6x6x3/16" 5' 6"

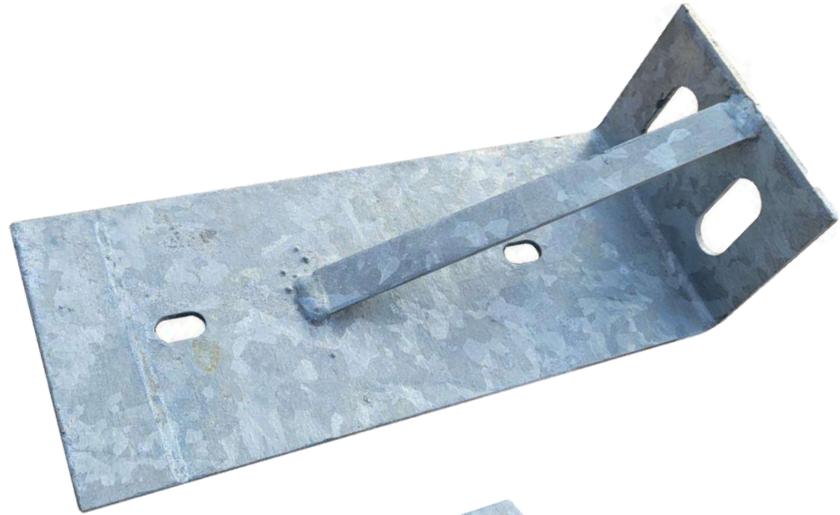


**BEAT-SSCC Parts:**

**B-SS110**

Transition Support Bracket

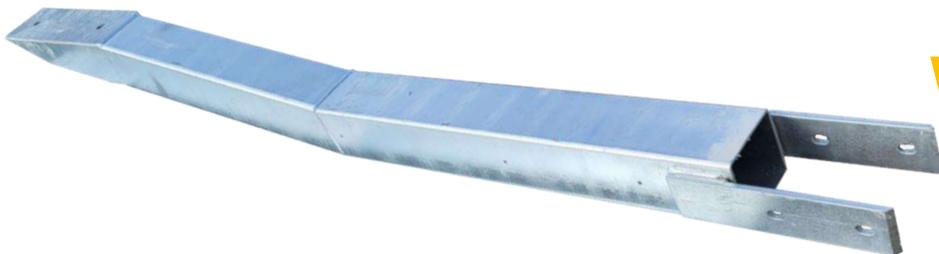
Bent plate w/ gusset



**B-SS112**

1" Square Washer

4x4x1/4"



**B-SS114**

Anchor Rail

6x6x3/16" 8' 6.1875"



**B-SS116**

Splice Plate

10x10x3/8"

**BEAT-SSCC Parts:**



**B-SS120**

**Tie Plate**

**11.5 x 3.5 x 3/16"**



**B-SS122**

**Spacer**

**BP-SC**

**Splice Channel**



**C3820**

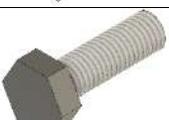
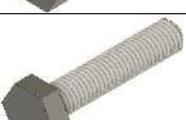
**3/8 Galvanized Cable**

**20'**

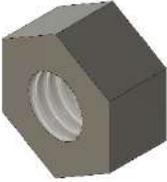
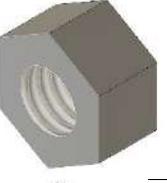
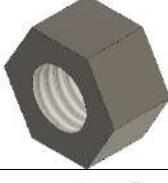
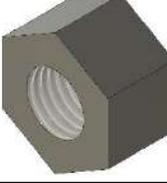


# Hardware

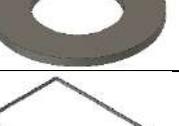
## BEAT-SSCC Hardware:

	B51607504A	5/16" X 7 1/2" HEX HD. BOLT Gr.5	14
	B140304	1/4" X 3" HEX HD BOLT	1
	B120204A	1/2" X 2" HEX HD BOLT Gr.5 Full Thread	1
	B120504A	1/2" X 5" HEX HD BOLT Gr.5	1
	B580154	5/8" X 1 1/2" HEX HD BOLT Gr.2	7
	B580204A	5/8" X 2" HEX HD BOLT Gr.5	4
	B580304A	5/8" X 3" HEX HD BOLT Gr.5	1
	B580604A	5/8" x 6" HEX HD BOLT Gr. 5	4
	B580804A	5/8" X 8" HEX HD BOLT Gr.5	1
	B580904A	5/8" X 9" HEX HD BOLT Gr.5	4

## BEAT-SSCC Hardware:

	B101604A	1" x 16 HEX HD BOLT GR.5	2
	N0516	5/16" HEX NUT	14
	N014	1/4" HEX NUT	1
	N012	1/2" HEX NUT	2
	N050	5/8" DR NUT	7
	N055	5/8" HEX NUT	18
	N100A	1" HEAVY HEX NUT Gr. 5	4

## BEAT-SSCC Hardware:

	W0516	5/16" WASHER	28
	W014	1/4" WASHER	1
	W012	1/2" WASHER	2
	W050	5/8" WASHER	33
	W100A	1" HEAVE WASHER Gr. 5	4
	CT-100 ST	Cable Tie - Steel	2

# Guardrail

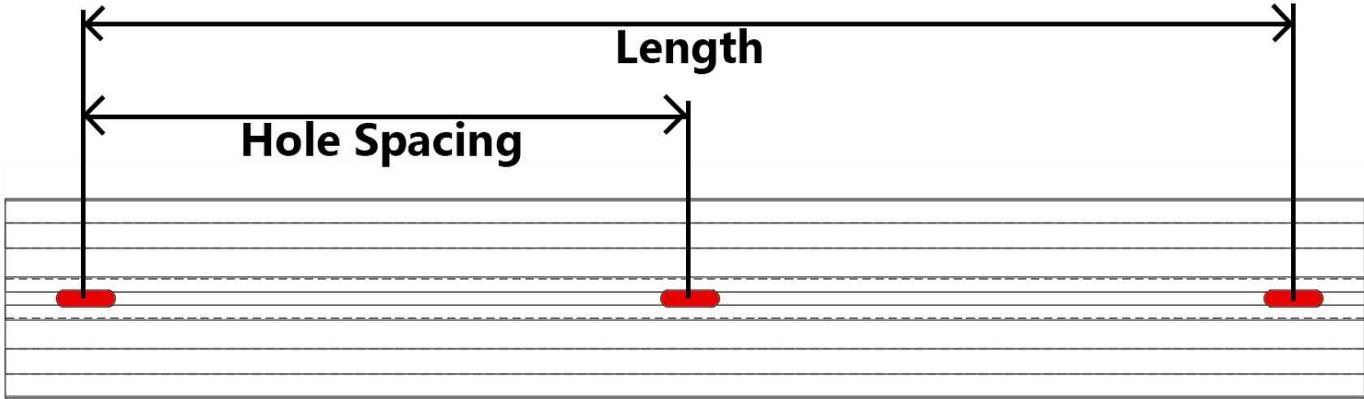


We have a large inventory of guardrail and guardrail components available for quick deliveries.

Specialty components can be fabricated upon request

- W-Beam Rail Sections
- Thrie Beam Rail Sections
- Steel or Timber Posts
- Plastic Composite Blocks
- Transition Sections
- Bridge Rails
- Various End Anchors
- Attachment Hardware

# Guide To Guardrail Measurements



## Common Guardrail Lengths

<b>Guardrail</b>		
<b>Item #</b>	<b>Length</b>	<b>Hole Spacing</b>
G1201	6'3"	6'3"
G1201A	6'3"	3'1-1/2"
G12025	9'4-1/2"	3'1-1/2"
G1203	12'6"	6'3"
G1203A	12'6"	3'1-1/2"
G1205	25'	6'3"
G1207	T101 Transition	7 Hole
G1209	25'	3'1-1/2"

<b>Thrie Beam Guardrail</b>		
<b>Item #</b>	<b>Length</b>	<b>Hole Spacing</b>
GTB1001	3'1-1/2"	3'1-1/2"
GTB1003	6'3"	3'1-1/2"
GTB1209	12'6"	1'6-3/4"

<b>SKT Guardrail</b>		
<b>Item #</b>	<b>Length</b>	<b>Hole Spacing</b>
SF1303	12'6"	6'3"
SF1305	25'	6'3"

Type 1 and Type 2 rail available

Hot Dipped and Powder Coated options available

**Guardrail Available**



**Standard Rail**

Various lengths available

**SKT Rail**

SF1303

SF1305



**Thrie Beam**

GTB1001

GTB1209



**Radius Rail**

Sizes from  
5° to 149°



## Transitions and Ends

**GTB1203**

Thrie Beam Transition  
Symmetrical



**GTB1003**

Thrie Beam Transition  
Non Symmetrical  
Left and Right Available



**T501**

End Shoe



**T502**

End Flare

**T504**

Thrie Beam  
End Shoe



## Timber Posts



**TP60**

Timber Post 6'0"

1 hole



**TP60-BM**

Timber Post 6'0"

2 holes



**TP73-AM**

Timber Post 7'3"

2 holes

## Steel Posts

**P621**

Steel Post 6'

**SP6B**

6' Steel Post  
Thrie Beam

**SP7A**

7' Steel Post  
Thrie Beam



## Composite Blocks

### CBSP-14/CBSP-18

Composite Block  
For Steel Post



### CBTP-14/CBTP-18

Composite Block  
For Rounded Timber Post

# Contact Us

If you have any questions or need to place an order, don't hesitate to contact our office.

Phone: (432) 263-3725

Fax: (432) 267-4039

Email:

[info@interstatesteeltexas.com](mailto:info@interstatesteeltexas.com)

[www.interstatesteeltexas.com](http://www.interstatesteeltexas.com)



Kothmann Enterprises  
DBA Interstate Steel  
3616 Old Howard County Airport  
Big Spring, TX 79720