

HALLOWELL GUARDRAIL INSTALLATION DETAILS

General Instructions

1. Check material received against the packing list. Check the number of packages received and then check the contents of each package.
2. Check the material received for damage. If damage has occurred, secure a “damage notation” from the carrier
3. Identify each part as it is unpacked and put like parts together as close as possible to the working area where they are to be assembled.
4. Be careful to use the correct hardware as specified in the assembly instructions.

CAUTION

In the interest of safety, all lockers must be securely anchored to the floor and/or wall. For safety, handle all components carefully and wear work gloves when assembling lockers. Install all units plumb and tighten all hardware securely. Retain instructions for future reference.



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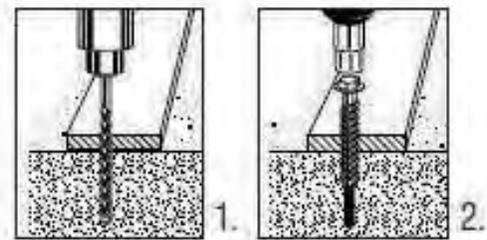
GUARDRAIL FLOOR ANCHORING INSTRUCTIONS

Hardware Needed:

- 5/8" X 4" Self Threading Anchor for Concrete (included)
- 17mm SDS drill bit (sold separately - available from Hallowell)
- Wrench or Impact Wrench

Installation Steps for Concrete, Lightweight Concrete and Metal Deck:

1. Using the 17mm drill bit, drill a hole at least 1" deeper than anchor embedment.
2. Using an impact wrench or manual socket wrench, insert anchor into hole and tighten anchor until fully seated. If installation torque exceeds 50 ft. lbs. using an impact wrench, remove anchor from hole. Reinstall with a new anchor using a manual socket wrench.



Caution:

Observe torque values particularly when installing anchor in higher compressive strength concrete with an impact wrench. Over-torquing may result in lower tension and/or shear performance of the anchor.

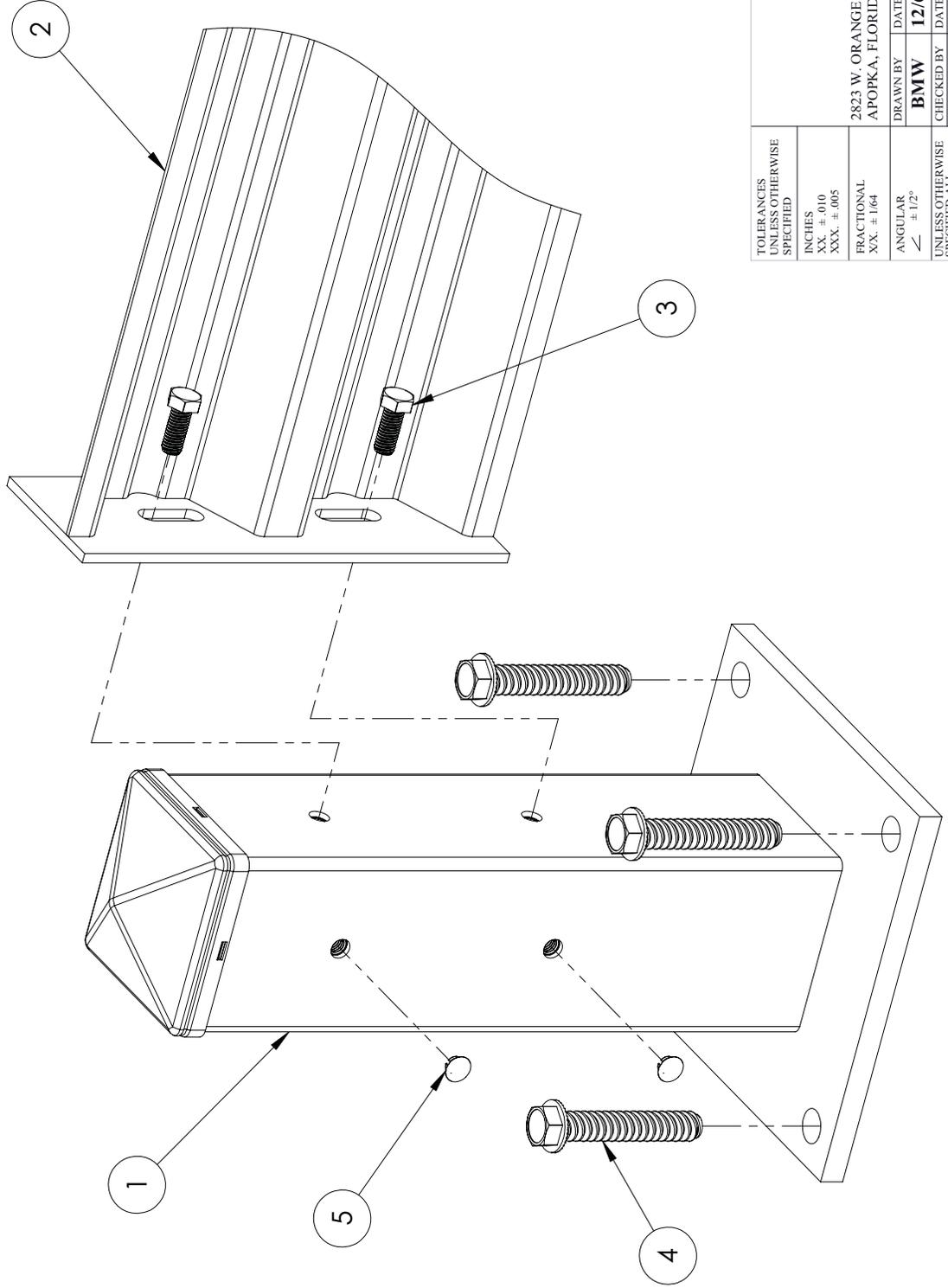
Use of core drills is not recommended to drill holes with this anchor.

Not recommended with use in new concrete which has not had sufficient time to cure.

Carbide drill bits are recommended for the installation of this anchor.

NOTES:
 1) USE PHC100 AT ALL UNUSED LOCATIONS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CS-1	18IN STANDARD COLUMN	1
2	GR-XX	GUARD RAIL SECTION	1
3	CS103	1/2-13 X 1-1/4 GRADE 5 HEX CAP SCREW	4
4	LDT100	5/8 X 4 LDT SELF THREADING ANCHOR	4
5	PHC100	PLASTIC HOLE COVER	6



TOLERANCES UNLESS OTHERWISE SPECIFIED
 INCHES
 XX. ± .010
 XXX. ± .005
 FRACTIONAL
 XX. ± 1/64
 ANGULAR
 < ± 1/2°
 UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. DIMENSIONS WITHIN [XX] WILL BE WITHIN [XX]

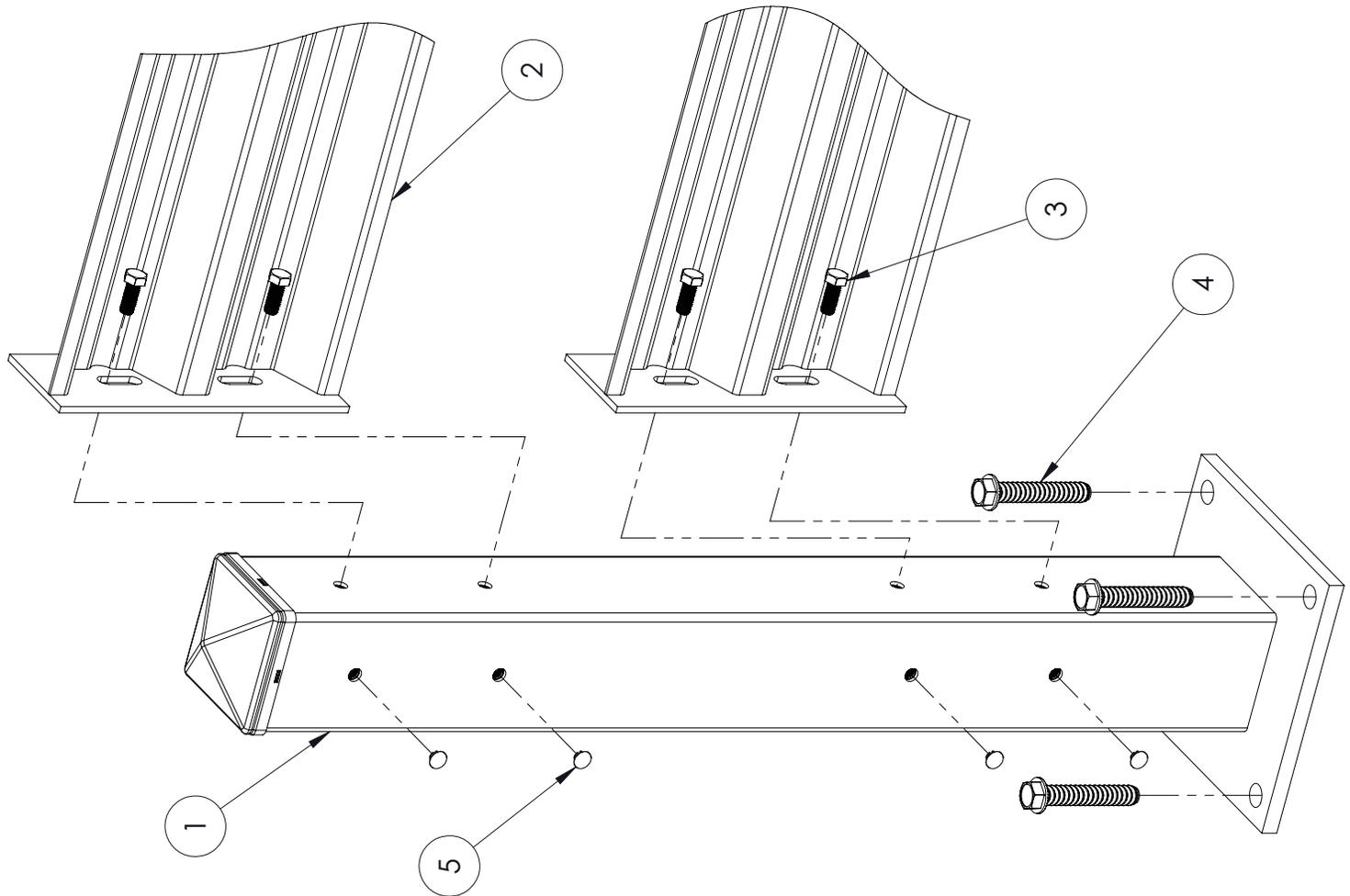
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 Tel (866) 566-0500
 Fax (407) 464-3610

DRAWN BY	DATE	DESCRIPTION
BMW	12/6/2012	CS-1 CONNECTION DETAIL
CHECKED BY	DATE	
APPROVED BY	DATE	
SCALE	SHEET	PART NO.
	1 of 1	SA-1559
		REV.

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CS-2	42IN STANDARD COLUMN	1
2	GR-xx	GUARD RAIL SECTION	2
3	CS103	1/2-13 X 1-1/4 GRADE 5 HEX CAP SCREW	8
4	LDT100	5/8 X 4 LDT SELF THREADING ANCHOR	4
5	PHC100	PLASTIC HOLE COVER	12

NOTES:
1) USE PHC100 AT ALL UNUSED LOCATIONS



TOLERANCES
UNLESS OTHERWISE
SPECIFIED

INCHES
XX. ± .010
XXX. ± .005

FRACTIONAL
XX. ± 1/64

ANGULAR
∠ ± 1/2°

UNLESS OTHERWISE
SPECIFIED ALL
DIMENSIONS ARE IN
INCHES UNLESS
OTHERWISE NOTED
DIMENSIONS WILL BE
WITHIN [XX]

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DRAWN BY	DATE	DESCRIPTION
BMW	12/10/2012	CS-2 CONNECTION DETAIL
CHECKED BY	DATE	
APPROVED BY	DATE	

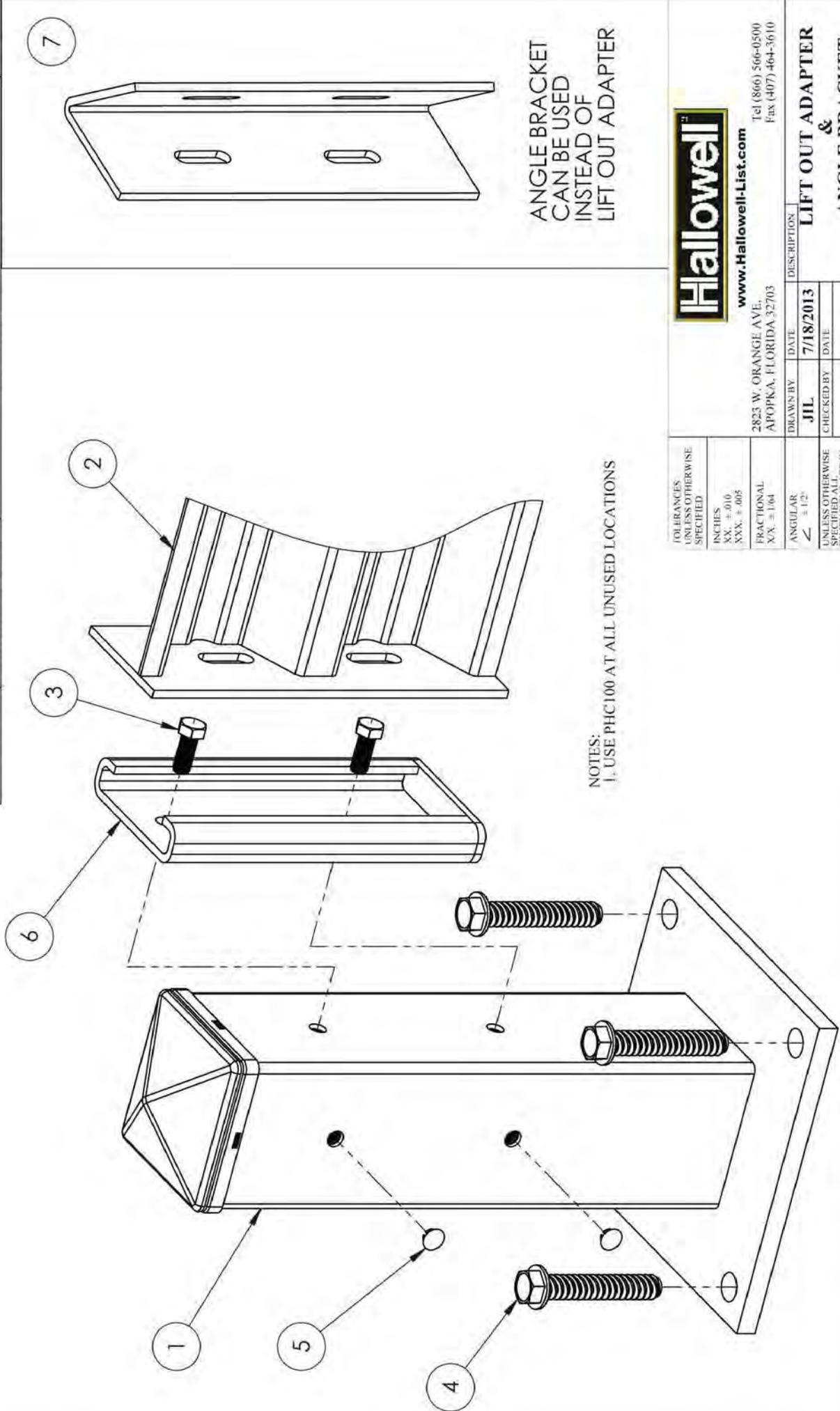
SCALE | SHEET | PART NO. | DRAWING NO. | REV.

: 1 of 1 : SA-1560

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OPTIONAL COMPONENTS

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CS-1	18IN STANDARD COLUMN	1
2	GR-xx	GUARD RAIL SECTION	1
3	CS103	1/2 X 1-1/4 GRADE 5 EX CAP SCREW	4
4	LDT100	5/8 X 4 LDT SELF THREADING ANCHOR	4
5	PHC100	PLASTIC HOLE COVER	6
6	LOA	LIFT OUT ADAPTER	1
7	45-BRACKET	ANGLE BRACKET	--



NOTES:
1. USE PHC100 AT ALL UNUSED LOCATIONS

ANGLE BRACKET
CAN BE USED
INSTEAD OF
LIFT OUT ADAPTER



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TOLERANCES UNLESS OTHERWISE SPECIFIED	INCHES XX. = 0.10 XXX. = .005	FRACTIONAL XX. = 1/64	ANGULAR ∠ = 1/2°	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES, METRIC DIMENSIONS WILL BE WITHIN (X)	
DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
JIL	7/18/2013				
DESCRIPTION				LIFT OUT ADAPTER & ANGLE BRACKET	
SCALE	SHEET	PART NO.	DRAWING NO.		
	1 OF 1		SA1642		

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