

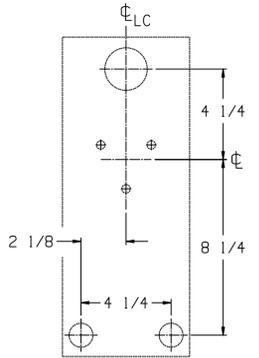
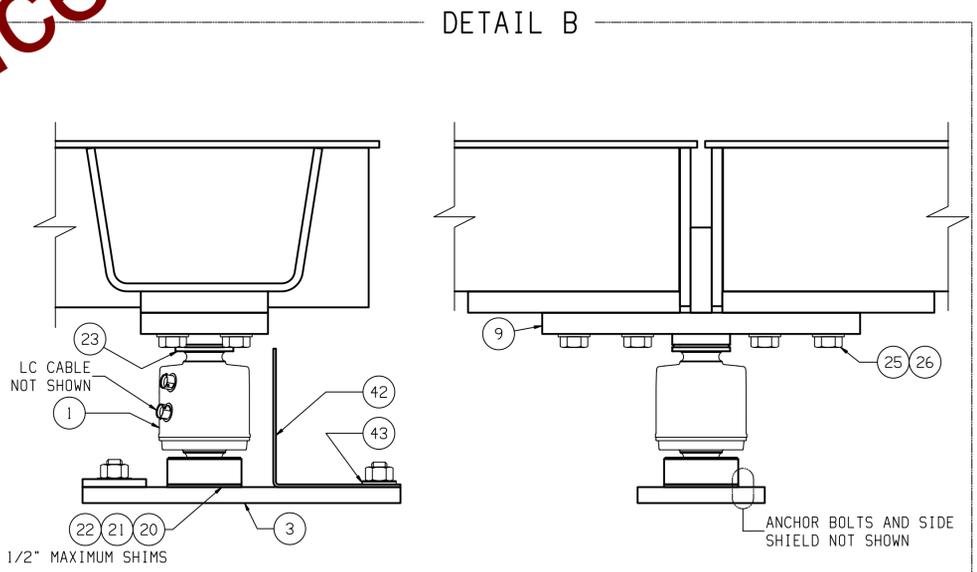
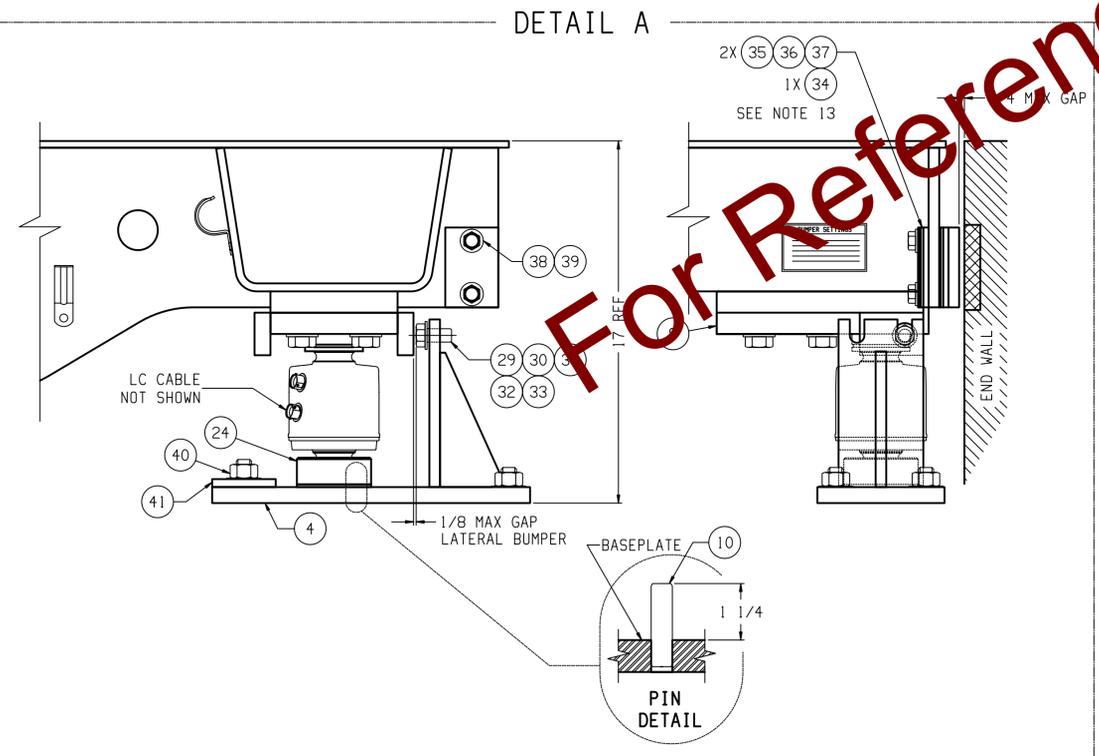
OPTIONAL MANHOLE
(TYPICAL PLACEMENT SHOWN)
(14\"/>

INSTALLATION INSTRUCTIONS

- USE BASEPLATES AS TEMPLATES TO DRILL INSIDE (LARGE) ANCHOR HOLES PER FOUNDATION DRAWING DIMENSIONS, WHICH ARE ALSO DUPLICATED IN THE TABLE TO THE LEFT OF THESE NOTES. SET BASEPLATES IN PLACE. INSTALL INSIDE ANCHOR WITH CLAMP BAR, TIGHTEN TO SET ANCHOR, AND THEN LOOSEN SO THAT BASEPLATE CAN BE FREELY MOVED. INSTALL LOWER RECEIVER PINS AND BOTTOM HEX RECEIVERS. PLACE LOCATING TOOLS (AVAILABLE FROM METTLER TOLEDO) ON LOWER RECEIVERS.
- INSTALL COUPLER/RECEIVER PLATES, END RECEIVER PLATES, AND TOP RECEIVERS ON FIRST MODULE. FASTENERS SHOULD BE SEATED AND SNUG BUT NOT TIGHTENED.
- SET THE FIRST MODULE ON LOCATING TOOLS AT END OF FOUNDATION.
- INSTALL COUPLER/RECEIVER PLATES AND TOP RECEIVERS ON THE NEXT (MIDDLE) MODULE, OPPOSITE THE END THAT WILL CONNECT TO THE PREVIOUS MODULE.
- PLACE THE MODULE ON LOCATING TOOLS AND THE COUPLER/RECEIVER PLATES OF THE PREVIOUS MODULE. PULL THE MODULES TOGETHER, AND THEN INSTALL BOLTS IN THE COUPLER/RECEIVER PLATES (BUT DO NOT TIGHTEN).
- REPEAT STEPS 4 AND 5 UNTIL ALL MIDDLE MODULES HAVE BEEN PLACED.
- INSTALL END RECEIVER PLATES AND TOP RECEIVERS ON THE TERMINAL MODULE, OPPOSITE OF THE END THAT WILL CONNECT TO THE PREVIOUS MODULE. AGAIN, THE BOLTS SHOULD ONLY BE SNUGGED.
- PLACE THE TERMINAL MODULE ON LOCATING TOOLS AND THE COUPLER/RECEIVER PLATES OF THE PREVIOUS MODULE. PULL THE MODULES TOGETHER, AND THEN INSTALL BOLTS IN THE COUPLER/RECEIVER PLATES (BUT DO NOT TIGHTEN).
- ADJUST THE POSITIONS OF THE BASEPLATES AND MODULES AS NECESSARY TO SEAT THE LOCATING TOOL FLANGES ON THE RECEIVER FLANGES. USE RECEIVER SHIMS IF NECESSARY. CENTER THE SCALE WITHIN THE FOUNDATION.
- AT THIS POINT, COUPLER SHIMS MAY BE USED IF NECESSARY TO FILL ANY GAP BETWEEN THE COUPLER/RECEIVER PLATES AND MODULES.
- INSTALL AND TIGHTEN REMAINING BASEPLATE ANCHORS. APPLY LOCTITE TO COUPLER/RECEIVER PLATE AND END RECEIVER PLATE BOLTS AND TORQUE TO 100 lb-ft.
- GREASE THE BEARING SURFACES AT THE ENDS OF THE LOAD CELLS WITH THE SUPPLIED LUBRICANT. INSTALL LOAD CELLS.
- INSTALL END BUMPER COMPONENTS. ADJUST END BUMPER GAPS AS REQUIRED. WHEN ADJUSTING THE END BUMBERS, ALL SHIMS MUST REMAIN WITH THE ASSEMBLY. RELOCATE SHIMS FROM ONE SIDE OF THE ENDPATE TO THE OTHER TO ADJUST THE END GAP. COMPLETE REMOVAL OF ANY SHIMS FROM THE ASSEMBLY WILL RESULT IN DAMAGE TO THE BUMPER ASSEMBLY. NOTE THAT SEASONAL BUMPER ADJUSTMENTS MAY BE REQUIRED.
- LOCATE THE LATERAL BUMPER BOLTS, WASHERS, AND NUTS AND INSTALL. SET THE LATERAL BUMPER GAP AS SHOWN IN DETAIL A. TIGHTEN ALL LATERAL BUMPER FASTENERS.
- LOCATE SIDE SHIELDS ON ALL MIDDLE BASEPLATES. REMOVE THE NUTS AND WASHERS FROM THE TWO OUTER ANCHORS AND PLACE THE SIDE SHIELDS IN POSITION. NEXT PLACE A 3/4\"/>

VTS100 ONLY
VTS100 ONLY

MODULE COMBINATIONS				DIMENSIONAL CHART					
SCALE SIZE	FIRST "D" DIM	MIDDLE "E" DIM	TERMINAL "F" DIM	"A" FDN LENGTH	"B" OVERALL LENGTH	"C"	"D"	"E"	"F"
52.5'	17.5'	17.5'	17.5'	52'-8 1/4" -0/+1	52'-6 3/8"	52'-0 1/4"	17'-3"	17'-6 1/4"	17'-3"
55'	17.5'	20'	17.5'	55'-2 1/4" -0/+1	55'-0 3/8"	54'-6 1/4"	17'-3"	20'-1/4"	17'-3"
60'	20'	20'	20'	60'-2 1/4" -0/+1	60'-0 3/8"	59'-6 1/4"	19'-9"	20'-1/4"	19'-9"
70'	23.3'	23.3'	23.3'	70'-2 1/4" -0/+1	70'-0 3/8"	69'-6 1/4"	23'-1"	23'-4 1/4"	23'-1"



DETAIL C
REFERENCE ANCHOR LOCATIONS.
USE BASEPLATE AS TEMPLATE.
OTHER SIDE IS OPPOSITE.

IMPORTANT
INTERIOR SURFACE OF ALL LOAD CELL RECEIVERS (BOTH TOP AND BOTTOM) MUST BE GREASED WITH 68004326 DURING CELL INSTALLATION.

ITEM	QTY	PART NUMBER	DESCRIPTION	
--	1	68004258	CONNECTOR CLEANER	
--	3	61038104	LOCTITE #262 THREADLOCKER	
--	2	68004326	LUBRICANT, LOADCELL-RECEIVER	
--	2	61077016	COUPLER SHIM (.062)	
--	2	61077015	COUPLER SHIM (.125)	
VTS100 ONLY	43	8	61038102	WASHER, 3/4, ZN
VTS100 ONLY	42	4	61038101	SIDE SHIELD, 304SS
	41	8	69034087	CLAMP BAR, FOR BASEPLATE LARGE HOLE
	40	24	68004325	ANCHOR BOLT, 3/4
	39	8	61037252	1/2 WASHER NI
	38	8	61038099	1/2-13 X 2 HHCS NI
	37	8	61037796	END BUMPER SHIM (.062)
	36	8	61037795	END BUMPER SHIM (.125)
	35	8	61037794	END BUMPER SHIM (.25)
	34	4	61037793	END BUMPER
	33	12	68004062	WASHER, 5/8x1.31 OD F436
	32	4	61037989	BOLT, 5/8-11x1 3/4 A325
	31	4	68004109	SLOTTED SHIM 22 GA (.031)
	30	4	68004108	SLOTTED SHIM 16 GA (.062)
	29	4	61038115	NUT, 5/8-11, HEX, ZN
	28	--	--	--
	27	--	--	--
	26	48	68004065	WASHER, 3/4 A325
	25	48	61038114	BOLT, 3/4-10x2 Gr8 ZN
	24	8	61043498 30283111 61046447	BOTTOM HEX RECEIVER (FOR PDX) BOTTOM HEX RECEIVER (FOR GDD) BOTTOM HEX RECEIVER (FOR 0782)
	23	8	61043499 30283112 61046446	TOP RECEIVER WITH O-RING (FOR PDX) TOP RECEIVER WITH O-RING (FOR GDD) TOP RECEIVER WITH O-RING (FOR 0782)
	22	16	61043491	RECEIVER SHIM 16 GA (.062)
	21	8	61043490	RECEIVER SHIM 11 GA (.125)
	20	8	61043489	RECEIVER SHIM 1/4"

KIT OF PARTS: 61082856
30291233
61082857

ITEM	QTY	PART NUMBER	DESCRIPTION
--	1	61082856	HARDWARE KIT OF PARTS, PDX (VTS101)
--	1	30291233	HARDWARE KIT OF PARTS, GDD (VTS100)
--	1	61082857	HARDWARE KIT OF PARTS, 0782 (VTS100)
--	1	**	WIRING KIT, PDX
--	1	30283748	WIRING KIT, GDD
--	1	61080731	WIRING KIT, ANALOG
--	1	61043158	TOUCHUP PAINT KIT
10	24	61043497	LOWER RECEIVER MOUNTING PIN
9	4	61046440	COUPLER/RECEIVER PLATE
8	4	61077682	END RECEIVER PLATE
7	1	**	TERMINAL MODULE
6	1	**	MIDDLE MODULE
5	1	**	FIRST MODULE
4	4	61046448	BASEPLATE, END
3	4	61045779	BASEPLATE, MID
2	1	61071325	DATA PLATE (NOT SHOWN)
1	8	42904891 72236271 71201709	LOAD CELL, PDX, 50+ LOAD CELL, GDD, 30+ LOAD CELL, 0782, ANALOG, 30+

MAJOR BILL OF MATERIAL

** PART NUMBER VARIES

REV	CHANGE	BY	DATE	SCALE	DATE	DATE	DATE
A	ADDED 70" CONFIG.; REMOVED DIELECTRIC COMP.	JLB	04/01/10	.25	12/08/09		
B	ADDED GDD OPTION AND N109 (WAS TC207943)	CAK	10/09/15				

TITLE VTS10X, GENERAL LAYOUT AND KOP, 3-MOD, ABOVE-GROUND INSTALLATION

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES, AND DIMENSIONAL TOLERANCES ARE:

FRACTIONAL	DECIMAL	ANGULAR
+1/32	.XX ±.02	±.5°
	.XXX ±.005	

61803001 B

For Reference Only. Not for Construction.