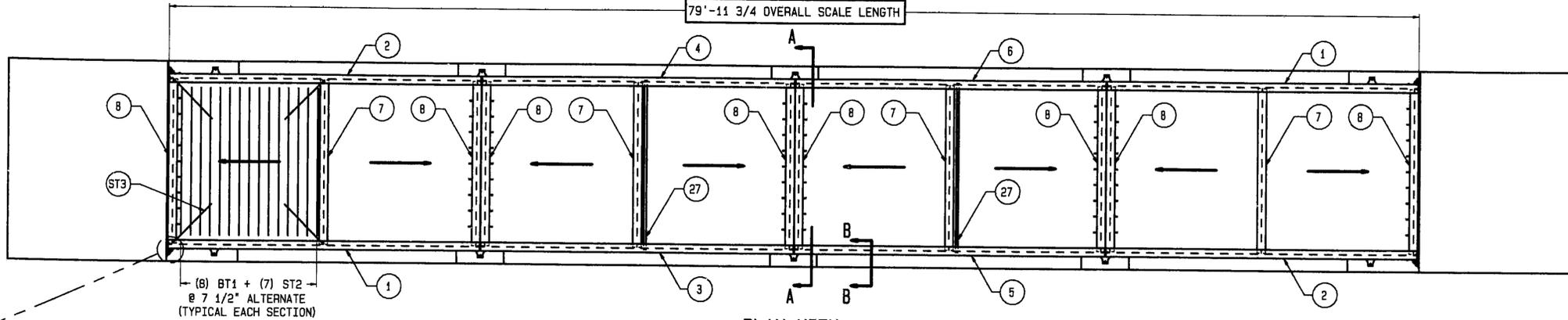
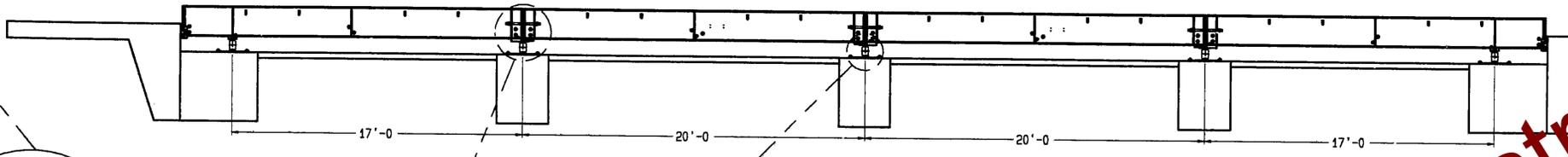


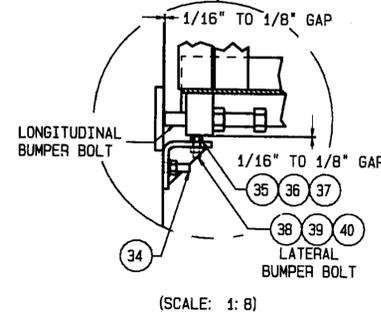
79'-11 3/4" OVERALL SCALE LENGTH



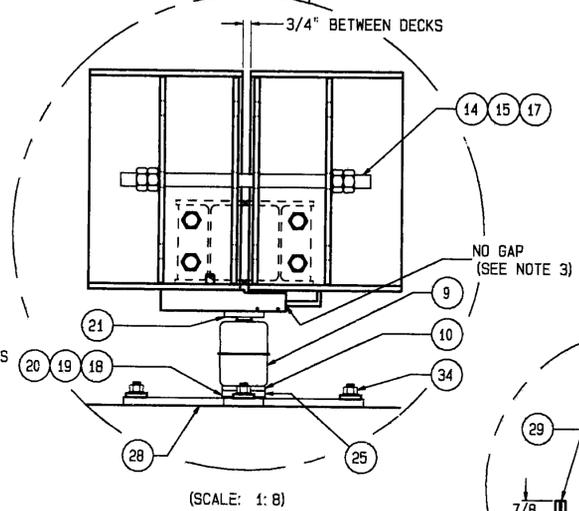
PLAN VIEW



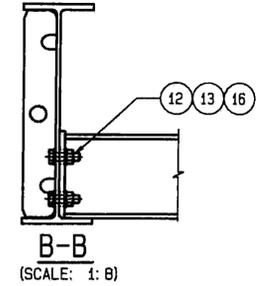
SIDE VIEW



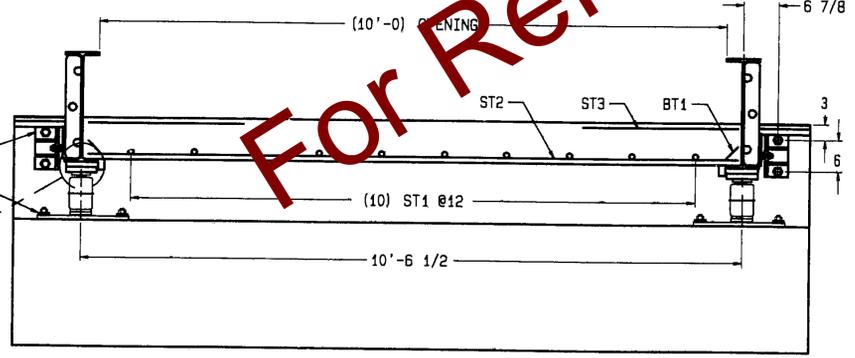
LONGITUDINAL BUMPER BOLT (SCALE: 1:8)



BASEPLATE ROLL PIN DETAIL (REF.) (SCALE: 1:8)



B-B (SCALE: 1:8)



A-A (SCALE: 1:16)

NOTES

- INSTALL THE PROVIDED ROLL PINS INTO THE LOAD CELL BASEPLATES AS SHOWN IN THE BASEPLATE ROLL PIN DETAIL. PLACE THE BASEPLATES IN POSITION (REFER TO FOUNDATION DRAWING). PLACE 3/16" OF RECEIVER SHIMS ON THE BASEPLATES AND THEN INSERT THE LOWER RECEIVERS AND LOCATING TOOLS. INSERT THE UPPER RECEIVERS INTO THE MAIN BEAMS, MAKING SURE TO GREASE THE UPPER RECEIVER O-RING USING THE PROVIDED LUBRICANT.
- PLACE SHORING ON THE FLOOR OF THE FOUNDATION. SET MAIN BEAMS ON SHORING AT THEIR APPROXIMATE LOCATIONS AND THEN PLACE CROSS BEAMS ACCORDINGLY. IF THE SCALE IS COMPRISED OF MORE THAN ONE MODULE, BE SURE THAT THE MAIN BEAM WITH THE TRANSFER BAR IS PLACED FIRST AT EACH JOINT.
- LOOSELY ATTACH THE CROSS BEAMS TO THE MAIN BEAMS USING THE HARDWARE PROVIDED (SEE B-8 & PLAN VIEW).
- IF THE SCALE IS COMPRISED OF MORE THAN ONE MODULE, LOOSELY INSTALL THE TIE RODS BETWEEN MODULES. BE SURE TO PULL THE MODULES TOGETHER SUCH THAT THE TRANSFER BAR ENDS COME INTO CONTACT WITH THE MATING BEAM'S ALIGNMENT BAR, BUT DO NOT FULLY TIGHTEN THE TIE ROD NUTS.
- ONCE ALL BEAMS HAVE BEEN PLACED AND LOOSELY ASSEMBLED, CHECK SQUARENESS OF THE SCALE AND MAKE NECESSARY ADJUSTMENTS TO BRING THE SCALE INTO SQUARE. MAINTAIN AN EQUAL DISTANCE TO THE PIT WALL AT EACH END.
- TIGHTEN ALL CROSS BEAM BOLTS (SEE NOTE 11).
- IF THE SCALE IS COMPRISED OF MORE THAN ONE MODULE, INSTALL THE TRANSFER BAR SIDE SHIMS AT EACH JOINT AS REQUIRED TO ALIGN THE MODULES AND PREVENT LATERAL MOVEMENT (SEE A-A).
- TIGHTEN AND LOCK NUT ALL TIE RODS (SEE NOTE 11).
- INSTALL (3) EXPANSION ANCHORS AND WASHERS AT EACH BASEPLATE.
- SET LONGITUDINAL BUMPER BOLT GAP (SEE PLAN VIEW DETAIL). LOCATE THE LATERAL BUMPER BRACKET EXPANSION ANCHORS USING THE BRACKET AS A TEMPLATE AND INSTALL. SET THE LATERAL BUMPER GAP AS SHOWN, AND THEN TIGHTEN ALL BUMPER BOLT LOCKNUTS (SEE NOTE 11).
- THE "TURN OF THE NUT METHOD" (TIGHTENING NUTS AN ADDITIONAL ONE-HALF TURN PAST SNUG TIGHT) IS TO BE USED WHEN INSTALLING HARDWARE.
- FORM THE SCALE DECK BY USING 28 GA. MIN. CORRUGATED DECKING OR EQUIVALENT MATERIAL (CORRUGATION TO RUN LONGITUDINALLY). BE SURE DECKING IS RESTING SOLIDLY ON THE SHORING.
- PLACE THE REINFORCING STEEL AS SHOWN. REBAR MINIMUM DEPTH OF COVER SHOULD BE IN ACCORDANCE WITH THE LATEST ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318 - SECTION 7.7), UNLESS OTHERWISE SPECIFIED. INSTALL LATERAL CONDUIT ASSEMBLIES WHERE SHOWN.
- POUR CONCRETE. USE 4000 PSI CONCRETE AT A 28 DAY CURE WITH 5-7% AIR ENTRAINMENT. THE CONCRETE SHALL BE PLACED ACCORDING TO THE LATEST ACI CODE BOOK. SLOPE CONCRETE AS SHOWN BY ARROWS IN THE PLAN VIEW.
- AFTER THE CONCRETE HAS CURED, RECHECK BUMPER GAPS.
- INSTALL THE LOAD CELLS AS SHOWN, USING SHIMS AS REQUIRED TO BRING THE MODULES TO THE SAME HEIGHT. DURING POWER CELL INSTALLATION, GREASE THE INTERIOR BEARING SURFACES OF ALL RECEIVERS WITH SUPPLIED LUBRICANT. REFER TO THE WIRING DIAGRAM FOR CABLE AND J-BOX INSTALLATIONS.
- CORRUGATED DECKING, SHORING, REBAR, AND CONCRETE TO BE FURNISHED BY OTHERS. FOR MORE DETAIL ABOUT THE INSTALLATION OF THIS SCALE, REFER TO THE 7531 MANUAL.
- OVERALL SCALE DIMENSION SHOWN IS NOMINAL, ACTUAL TOLERANCE IS -0 +1".

| MATERIAL SUMMARY | | QUANTITY |
|------------------------------|--|----------|
| CONCRETE (CU. YD.) | | 20 |
| REINFORCING STEEL (LB) | | 3066 |
| CORRUGATED DECKING (SQ. FT.) | | 825 |

| REINFORCING STEEL SCHEDULE (A.S.T.M. A-615 GRADE 60) | | | | | |
|--|-----|------|---------------------|------------|------|
| SYM | QTY | SIZE | LOCATION, DIRECTION | LENGTH | WGT |
| ST1 | 80 | #5 | LONGITUDINAL | 9'-5" | 786 |
| ST2 | 56 | #7 | LATERAL | 10'-2" | 1165 |
| ST3 | 32 | #5 | CORNER TOP DECK | 3'-6" | 117 |
| BT1 | 64 | #6 | BENT LATERAL | 10'-4 1/2" | 998 |

| ITEM | QTY | PART NUMBER | DESCRIPTION |
|------|-----|--------------|---------------------------------|
| 41 | 2 | TN203217 | LUBRICANT, LOADCELL RECEIVER |
| 40 | 12 | MZ0901030062 | 5/8" FLAT WASHER F436 |
| 39 | 4 | MZ0901020066 | 5/8-11 HEX NUT GR8 ZN |
| 38 | 4 | MZ0901010506 | 5/8-11 X 1-3/4 HHCS A-325 ZN |
| 37 | 4 | TA200357-3 | SLOTTED SHIM 22 GA (.031) |
| 36 | 4 | TA200357-2 | SLOTTED SHIM 16 GA (.062) |
| 35 | 4 | TA200357-1 | SLOTTED SHIM 11 GA (.125) |
| 34 | 38 | TN203216 | ANCHOR BOLTS |
| 33 | 1 | TN203056 | CONNECTOR DIELECTRIC COMPOUND |
| 32 | 1 | TB202627 | CONNECTOR CLEANER |
| 31 | 1 | ** | TOUCHUP PAINT KIT |
| 30 | 30 | MZ0901030111 | 3/4" PLAIN WASHER ZINC PLATED |
| 29 | 10 | MZ0904000063 | 1/2 X 1-1/2 LG. ROLL PIN |
| 28 | 10 | TA203619 | POWER CELL BASE PLATE |
| 27 | 2 | TA201886-1 | EMT CONDUIT ASSEMBLY, 129" LONG |
| 26 | 4 | TA203669 | SIDE BUMPER BRACKET ASSY. |
| 25 | 10 | TA200814 | LOWER RECEIVER |
| 24 | 6 | TA200801-3 | SIDE SHIM 16 GA |
| 23 | 6 | TA200801-2 | SIDE SHIM 11 GA |
| 22 | 6 | TA200801-1 | SIDE SHIM 1/4 |
| 21 | 10 | TA200764 | UPPER RECEIVER |
| 20 | 10 | TA200712-3 | RECEIVER SHIM 7 GA |
| 19 | 20 | TA200712-2 | RECEIVER SHIM 16 GA |
| 18 | 20 | TA200712-1 | RECEIVER SHIM 11 GA |
| 17 | 6 | MZ0901050006 | TIE ROD 1 1/4-7 X 24 |
| 16 | 98 | MZ0901030109 | 1" WASHER F436 ZN |
| 15 | 12 | MZ0901030015 | 1 1/4 FLAT WASHER |
| 14 | 24 | MZ0901020068 | 1 1/4-7 HEX NUT |
| 13 | 50 | MZ0901020062 | 1-8 HEX NUT GR8 ZN |
| 12 | 50 | MZ0901010505 | 1-8 X 3 HHCS GR8 ZN |
| 11 | 14 | MZ0901010239 | 10-32 X 3/4 SS SCREW |
| 10 | 10 | TN203173 | GASKET |

KIT OF PARTS: #C203659-1

| ITEM | QTY | PART NUMBER | DESCRIPTION |
|------|-----|--------------|-------------------------------------|
| -- | 1 | #C203659-1 | INSTALLATION KIT |
| -- | 1 | TC100495-4 | WIRING KIT |
| 9 | 10 | *14002500A | 22.5t CMOS POWER CELL |
| 8 | 8 | #A203614 | CROSS BEAM END |
| 7 | 4 | #A203615 | CROSS BEAM MIDDLE |
| 6 | 1 | #B203631 | 20'X11' MAIN BEAM, MID, RIGHT, TBAR |
| 5 | 1 | #B203630 | 20'X11' MAIN BEAM, MID, LEFT, TBAR |
| 4 | 1 | #B203623 | 20'X11' MAIN BEAM, MID, RIGHT |
| 3 | 1 | #B203622-00A | 20'X11' MAIN BEAM, MID, LEFT |
| 2 | 2 | #B203625-00B | 20'X11' MAIN BEAM, END, RIGHT |
| 1 | 2 | #B203624-00B | 20'X11' MAIN BEAM, END, LEFT |

MAJOR BILL OF MATERIAL

* LETTER PREFIX REPRESENTS PRODUCT REVISION LEVEL.
LETTER PREFIX DEPENDS ON THE TYPE OF FINISH.
** PART NUMBER DEPENDS ON THE TYPE OF FINISH.

| REV | CHANGE | BY | DATE |
|-----|--|-----|----------|
| 1 | ITEM 30 WAS TN201244, ITEM 35 QTY WAS 8 | DAH | 2/2/99 |
| 2 | STANDARDIZED NOTES, UPDATED DETAIL VIEWS | MT | 03/20/00 |

METTLER TOLEDO

TITLE 7531KD, B, 80' X 10', GENERAL LAYOUT AND KOP

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES, AND DIMENSIONAL TOLERANCES ARE:
FRACTIONAL .XX ±.02
DECIMAL .XXX ±.005
ANGULAR .5°

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TC203659 REV B