



TYPICAL SIDE ELEVATION OF SCALE INSTALLATION

CONCRETE POURING & FINISHING INSTRUCTIONS FOR SCALE DECK:

1. FINISH THE CONCRETE DECK WITH A BULL FLOAT AND HAND TROWEL OR BROOM TO THE DESIRED FINISH.
2. THE CONCRETE IS TO BE MOIST CURED FOR SEVEN DAYS OR MAY ALTERNATIVELY RECEIVE A COAT OF LIQUID CURING COMPOUND.
3. DO NOT USE OR CALIBRATE THE SCALE UNTIL THE DECK IS CURED AND HAS REACHED 4000 PSI MINIMUM COMPRESSIVE STRENGTH.

CONCRETE REQUIREMENTS		4000 P.S.I.	
AREA	QUANTITIES		
PIERS AS SHOWN	12 CU. YD.		
APPROACHES	10 CU. YD.		
FLOOR AT 2" THICK	5.5 CU. YD.		
MODULES	21.5 CU. YD.		
TOTAL	49 CU. YD.		

MODULE REINFORCING BAR SCHEDULE						ASTM A615 GRADE 60	
MARK	QTY.	SIZE	LENGTH	WT.	REMARKS		
D1	98	#6	12'-3"	1804	(7) EA. BAY, PERPENDICULAR TO TRAFFIC		
D2	196	#6	4'-6"	1325	(14) EA. BAY, PARALLEL TO TRAFFIC		
TOTAL WT: 3129							

FOUNDATION REINFORCING BAR SCHEDULE						ASTM A615 GRADE 60	
MARK	QTY.	SIZE	LENGTH	WT.	REMARKS		
HR1	30	#4	9'-6"	191	(15) EA. APPROACH		
HR2	100	#4	14'-6"	969	(16) EA. APPROACH; (17) EA. PIER TOP & BTM		
HR3	120	#4	3'-0"	241	(30) EA. PIER TOP & BTM		
VR1	60	#4	3'-0"	121	(30) EA. END WALL VERT		
TOTAL WT: 1522							

REINFORCING STEEL NOTES:

1. REINFORCING STEEL SHALL BE FREE OF ALL MUD, DEBRIS, CEMENT GROUT, LOOSE RUST, GREASE, AND OIL.
2. TACK WELDING OF BARS IS PROHIBITED.

- NOTES:**
1. FOUNDATION DESIGN IS BASED ON A MINIMUM SOIL BEARING CAPACITY OF 3000 LB/SQ. FT. FOR SOIL CONDITIONS WHICH DO NOT MEET THIS SPECIFICATION, CONSULT WITH THE THURMAN SCALE COMPANY.
 2. THE FOUNDATION SHALL BE INSTALLED AT AN ELEVATION AND LOCATION TO INSURE ADEQUATE DRAINAGE AWAY FROM SCALE. A PERIMETER TRENCH AND AGGREGATE BASE MAY BE ADDED IF DRAINAGE IS NOT SUFFICIENT TO MAINTAIN 3000 LB/SQ. FT. BEARING CAPACITY.
 3. BOTTOM OF FOOTERS SHOULD EXTEND BELOW THE FROST LINE. AN 18 INCH FOOTER DEPTH IS MINIMUM.
 4. N.I.S.T. H-44 REQUIREMENTS AND LOCAL WEIGHTS AND MEASURES REGULATIONS MAY REQUIRE INSTALLATION PARAMETERS SOMEWHAT DIFFERENT THAN ILLUSTRATED ON THIS PLAN. IN ORDER TO INSURE COMPLIANCE, CONSULT THE LOCAL WEIGHTS & MEASURES OFFICE PRIOR TO CONSTRUCTION.
 5. CONCRETE OF 4000 PSI MINIMUM COMPRESSIVE STRENGTH IS REQUIRED, WITH 5-7% AIR ENTRAINMENT. VIBRATE CONCRETE WHEN POURING. FOLLOW LATEST ACI REQUIREMENTS FOR MATERIALS AND CONSTRUCTION. DO NOT CAST UNLESS TEMPERATURE IS ABOVE 40 DEGREES FAHRENHEIT.
 6. PIERS MUST BE LEVEL AND IN THE SAME PLANE WITHIN ±1/8 INCH.
 7. EXCAVATION, FORMS, REINFORCING STEEL, GUARD POSTS, AND CONCRETE FURNISHED BY OTHERS. OPTIONAL REBAR KITS (FOR THE SCALE DECK) ARE AVAILABLE FROM THURMAN.
 8. DO NOT PLACE REBAR IN CLOSE PROXIMITY OF ANCHOR BOLTS.
 9. A MINIMUM OF 2" CLEARANCE IS REQUIRED ON JUNCTION BOX SIDE OF THE SCALE NEAR THE BOX MOUNTS.
 10. CAUTION! THE MAIN GIRDERS SHOULD NEVER BE USED AS A STEP. SLIPPERY WHEN WET.
 11. POSITION LOAD CELL ASSEMBLIES IN APPROXIMATE LOCATIONS.
 12. ASSEMBLE THE GIRDERS W/ THE CHECK BLOCK AND PROVISION FOR 2 LC FIRST. LAYOUT GIRDERS & LOOSELY ATTACH CROSSBEAMS. CROSS-SQUARE AND TIGHTEN BOLTS. JACK UP & ATTACH TOP BRACKETS & PIN SEATS TO THE BOTTOM FLANGE OF THE GIRDERS.
 13. SET THE LOADCELL ASSY UNDER THE PIN SEATS OF THE BASE MODULE.
 14. ASSEMBLE REMAINING MODULES BUILDING FROM THE BASE MODULE. PLACE NEXT PAIR OF GIRDERS ON STEP PLATE OF BASE MODULE & ON LOADCELL ASSY. INSTALL THE MODULE CONNECTION BOLTS THROUGH THE CONNECTION JOINT. LOOSELY ATTACH CROSSBEAMS. REPEAT UNTIL ALL MODULES ARE BUILT.
 15. CHECK SQUARENESS OF THE SCALE & ADJUST IF NECESSARY TO BRING INTO SQUARE. MAINTAIN EQUAL DISTANCE TO PIT WALL AT EACH END.
 16. TIGHTEN ALL CROSSBEAM BOLTS ONE-HALF TURN PAST SNUG. TIGHTEN ALL MODULE CONNECTION BOLTS. SET LONGITUDINAL CHECK BOLTS. ANCHOR STANDS AFTER LOADCELL ASSY PLUMB.
- DECK REINFORCEMENT**
17. TO PREVENT PAN FROM SAGGING WHILE POURING, ADDITIONAL SHORING SUPPORT BENEATH THE CORRUGATED PAN IS REQUIRED. THURMAN OFFERS OPTION SHORING KIT FOR THIS PURPOSE.
 18. CORRUGATED PAN SHOULD HAVE THE FOLLOWING MINIMUM SPECIFICATIONS: THICKNESS: 24 GAUGE MIN, PITCH 2 1/2", HEIGHT: 5/8" MAX CUT TO LENGTH 7'-0" X 2'-6"
 19. IF SUPPLIED WITH OPTIONAL REBAR MAT, TIE ABOVE STUDS. IF REINFORCEMENT SUPPLIED BY OTHERS, FOLLOW REBAR SCHEDULE.
 20. POUR CONCRETE. SEE NOTE 5 ABOVE.

ANCHOR DETAIL

DRILL TYPE ANCHOR INFORMATION (DRILL TYPE ANCHORS PROVIDED WITH THE SCALE)

FOR THE LC STANDS (16 REQUIRED)

5/8 DIA X 6" STUD TYPE ANCHORS

DRILL DIA 5/8", DRILL DEPTH 3 1/2"

LET	BY	DATE	REVISION
2	LDC	12/11/12	ADDED OVERALL WIDTH DIMENSION TO SECTION A-A
1	JCR	11/8/12	UPDATED CROSSBEAM SIZES

THURMAN SCALE
COLUMBUS, OH

8530KD 90K CLC
70' X 12'
FOUNDATION (4 SECTION, DB LC)

DATE: 10/07/09
SCALE: N/A
DRAWN BY: NDC
CHECKED BY:
APPROVED BY:

SHEET 1 OF 1
DRAWING NUMBER: 92465-FT
REVISION: 2

THIS DRAWING IS SUPPLIED AS CHECKED BELOW:

REFERENCE (ESTIMATES ONLY, NOT FOR CONSTRUCTION)

CERTIFIED FOR CONSTRUCTION, THURMAN #

CUSTOMER: _____ DATE: _____
CUSTOMER P.O.# _____
 CUSTOMER APPROVAL, RETURN ONE COPY.
(ORDER ON HOLD UNTIL SIGNED COPY IS RETURNED)

APPROVED AS DRAWN, APPROVED BY: _____ DATE: _____
 APPROVED AS NOTED, APPROVED BY: _____ DATE: _____

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONS ±1/8" DECIMALS ±0.005 2-PLACE DECIMALS ±0.01 HOLE DIAMETERS ±1/32"

MATERIAL: A36 FINISH: N/A