



SQUARE FOOT®

TECHNICAL/INSTALLATION MANUAL

**BE
SMART!**



**BE
SQUARE!**

**IF YOU CAN BUILD IT,
WE CAN HOLD IT!**

*Our unique, patented **SQUARE FOOT®** design provides increased stability and bearing capacity, provides superior resistance to uplift; facilitates rebar; and, levels easier than any other footing form on the market and meets or exceeds all building code requirements. Square footings are the standard of the construction industry and have stood the test of time for thousands of years.*

SOUND FOOTINGS, LLC

37 Talcott Road

P.O. Box 818

Williston, VT 05495

MODEL SF22, SF28 AND SF32 SOUND FOOTING LLC FOOTING FORMS

US PATENT #4,673,157 (FOOTING FORM)

US PATENT #4,767,241 (METHOD FOR SIMULTANEOUS FORMING OF CONCRETE FOOTINGS AND PIERS)

US PATENT #6,543,742 (FOOTING FORM)

DOCUMENTATION

FORM DESCRIPTION

Sound Footings LLC footing form is an engineered pre-fabricated form made from Block Copolymer Pinnacle 2135H which can replace formwork for footings that support piers. The plastic footing form has a square base that tapers up to a conical shape that allow, for standard fiber construction tubes to be attached to the top of the footing form. Sound Footings LLC footing forms are available in three different sizes: Model SF22, Model SF28, and Model SF32. The footing form has a uniform height with six flanges at the top to accommodate the different sized construction tubes. The construction tube is attached to the conical section of the footing form using four $\frac{3}{4}$ inches – 1 inch (1.91 cm – 2.54 cm) wood screws. It is then set into the ground on undisturbed soil or 4 in.- 6 in. (10.16 – 15.24cm) compacted crushed stone. The footing form is then plumbed backfilled and is filled with concrete making a monolithic pier and footing unit. The construction tube and plastic footing form remain in place after the concrete is cured.

SOUND FOOTING LLC FOOTING FORMS DETAILS

Three sizes are available:

MODEL SF22 is 22 inches (55.88 cm) square at the base. It will accommodate 8 inch (20.32 cm), and 10 inch (25.4cm) construction tubes.

MODEL SF28 is 28 inches (71.12 cm) square at the base. It will accommodate 8 inch (20.32 cm), 10 inch (25.4cm), and 12 inch (30.48 cm) construction tubes.

MODEL SF32 is 32 inches (81.28 cm) square at the base. It will accommodate 12 inch (30.48 cm), 14 inch (35.56 cm), 16 inch (40.64 cm), & 18 inch (45.72 cm) and large construction tubes.

The small vent holes in the sloped sections allow the escape of air trapped inside the footing form when the footing is being poured with concrete.

The top rings of the Sound Footings LLC footing forms are designed to accept various inside diameter construction tubes from various manufacturers for each footing form model. The rings not used must be cut off at the top of the ring being used and removed before any concrete is poured.

The bottom base flange is designed to fit flat on the excavated area and provides a location at the base

where 3/8 inch (0.95 cm) holes may be drilled on a 45 degree angle to receive a minimum of 12 – 12 inch (30.50 cm) steel spikes driven in at a 45 degree inward angle. This will anchor the footing form in position for above ground use or when the unit has not been backfilled.

Refer to specific literature from Construction Tube Manufacturers for technical information on acceptable length of construction tubes. External vibration to consolidate concrete may be necessary, such as using a mechanical concrete vibrator or tapping on the outside of construction tubes for columns exceeding 8 feet (2.44 m).

INSTALLATION MANUAL

2. INTRODUCTION

The Sound Footings LLC footing forms come in three sizes: Model SF22, Model SF28, & Model SF32. Each model accepts various diameter construction tubes, as per **Table 1 & Figure 1.**

2.0 ABOVE GROUND APPLICATION (DRAWING NO. SF-101, SF-104 & SF-107)

1. Determine which model footing form and construction tube size is required for your application. Using a saw or hand snips, remove excess rings above the ring diameter required for the chosen tube.
2. Attach the required length of construction tube to the Sound Footings LLC footing form with four ¾ inches - 1 inch (1.91 cm - 2.54 cm) long wood screws.
3. If the construction tube frays inward when cut with a handsaw remove the excess frayed tube material with a utility knife for ease of application.
4. Drill 3/8 inch (0.95 cm) holes on a 45 degree angle in the footing form as indicated on the drawing to accept a minimum of 12 inch (30.48 cm) spikes.
5. Place the footing form on undisturbed soil and drive spikes at a 45 degree angle inwards to prevent footing form from movement when concrete is being poured.
6. If the combined height above ground exceeds 3 feet (0.91 m), the tube must be braced in accordance with **Drawing no. SF-103, SF-106, and SF-109.**
7. The total combined height of the footing form must not exceed 5 feet (1.52 m).

When ready to pour use a footing form inverted on top of the construction tube to act as a funnel.

2.0 BELOW GRADE APPLICATION (DRAWING NO. SF-102, SF-105, & SF-108)

1. Determine which model footing form and construction tube size is required for your application. Using a saw or hand snips, remove excess rings above the ring diameter required for the chosen tube.
2. Attach the required length of construction tube to the Sound Footings LLC footing form with four ¾ inch - 1 inch (1.91 cm - 2.54 cm) long wood screws.
3. If the construction tube frays inward when cut with a handsaw remove the excess frayed tube material with a utility knife for ease of application.

4. Place the Sound Footings LLC footing form in the excavation on top of undisturbed soil or 4 in. – 6 in. (10.16 – 15.24 cm) of compacted crushed stone. Level and have inspected by a Building Inspector if necessary. Backfill in accordance with **Drawing No. SF-102, SF-105, and SF-108. Notes 4, 5 and 6.**
5. When backfilling avoid dropping or placing heavy rocks or heavy wet clay on footing form.
6. If the tube height above grade exceeds 3 feet (0.91 m) the tube must then be braced in accordance with **Drawing No. SF-103, SF-106, and SF-109.**
7. **Height Restrictions:**
 - a) The total combined height of footing forms must not exceed 13 feet (3.96 m).
 - b) The maximum tube height for the 8 inch (20.32 cm) construction tubes must not exceed 4 feet (1.22 m) above grade and braced.
 - c) The maximum tube height for the 10 inch (25.4 cm) ,12 inch (30.48 cm), 14 inch (35.56 cm), 16 inch (40 cm), and 18 inch (45.72 cm) construction tubes must not exceed 8 feet (2.44 m) above grade and braced.
 - d) Backfill must not exceed 5 feet (1.52 m).
8. When ready to pour use a footing form inverted on top of the construction tube to act as a funnel.

2.0 CONSTRUCTION TUBE PIERS

Construction tubes exceeding 8 feet (2.44 m) in height above grade must be approved by a Professional Engineer and require external vibration. Place “top of concrete” grade line with piano wire to designed height of the piers from the batter boards.

With Above Ground Applications loosely place construction tube on the collar of the footing form and mark the concrete level. Remove the construction tube, mark the concrete level with a wrap-around template and saw off the excess construction tube squarely. If the construction tube frays inward when cut with a hand-saw, remove excess frayed tube material with a utility knife for ease of application. Lay construction tube on a level area and attach four 1 inch (2.54 cm) X 3 inch (7.62 cm) X 8 inch (20.32 cm) scab boards on the top of the construction tube on the outside at the four quarter points, with two or more screws from inside the construction tube walls (**See Drawing SF-103, SF-106, and SF-109.**) Place the construction tube on the footing form collar and attach with a minimum of four 3/4 inch – 1 inch (1.91 cm – 2.54 cm) long wood screws. Place and screw the four bracing boards to the top of the pier scab boards and to the four “2 X 4” anchor stakes. (**See Drawing SF-103, SF-106, and SF-109.**) Level and plumb the pier, check the “top of concrete” level mark, adjust if necessary, attach and secure the bracing boards. RE-CHECK!! Then fasten the Sound Footings LLC footing form to the ground as detailed in Section 1.1 (Items 4 and 5) “Above Ground Application”.

With Below Grade Applications Attach the construction tube to the Sound Footings LLC footing form with four 3/4 inch – 1 inch (1.91 cm – 2.54 cm) wood screws, and lower into the excavated hole. Level, plumb and mark the proposed concrete level on the construction tube. Remove the Sound Footings LLC footing form from the hole and lay the construction tube on supports. Mark the concrete level with a wrap-around template and saw off the excess construction tube squarely. If the construction tube frays inward when cut with a handsaw, remove excess frayed tube material with a utility knife for ease of application.

Attach the four 1 inch (2.54 cm) X 3 inch (7.62 cm) X 8 inch (20.32 cm) scab boards on the top of the con-

struction tube on the outside at four quarter points, with two or more screws from inside the tube walls. **(See Drawing SF-103, SF-106, and SF-109).** Carefully replace the assembled unit in the excavated hole, check for level, plumb, "top of concrete" level mark and then backfill as detailed in Section 4.0 "Backfill for Below Grade Applications".

3. BRACING (DRAWING NO. SF-103, SF-106, & SF-109)

Brace the construction tube with four framing boards at the top and nail to stakes and scab boards. Brace the top of construction tubes to each other with spreaders attached to the braces or the scab boards.

4. BACKFILL FOR BELOW GRADE APPLIATIONS

Place Backfill in tow lifts as shown in **Drawing SF-102, SF-105, and SF-108** and consolidate each lift with a manual plate tamper or with a "2 X 4" on end. Then continue backfilling a minimum of 2 feet (60.96 cm) to a maximum height of 5 feet (1.52 m) in 16 inch (40.64 cm) lifts as shown in **Drawing SF-102**. Re-check alignment of pier. Do not strike Sound Footings LLC footing form with the manual tamper or the "2 X 4". Do not over consolidate so as to distort the shell of the footing form. The backfill is intended to hold the footing form in place and resist concrete uplift. Mechanical plate compaction equipment may also be used to facilitate soil compaction.

5. PLACING CONCRETE

Concrete shall have a minimum of 3000 psi 28-day compressive strength and consist of not more than 3/4 inch (1.91 cm) aggregate. Place concrete with a recommended slump of 5" (12.7 cm) to 6" (15.24 cm) in 10 inch – 16 inch (25.4 cm – 40.64 cm) lifts and 'rod' or probe concrete with a #4 or #5 rebar 10 to 12 thrusts per lift. Do not strike inside the top lip of the Sound Footings LLC footing form when rodding the first lift of concrete – rod in center area NOT around perimeter. Complete pouring concrete in equal lifts and rod tamping to the perimeter of the construction tube surface. Level concrete at the top of the construction tube, screed off and place the anchor plate or anchor bolts as specified. Re-check alignment of piers and move to re-align and re-secure braces as necessary before concrete sets.

6. STRIPPING OF FORMS

Stripping of the plastic footing form is not recommended with the Sound Footings LLC footing form. Remove wooden braces, cut and remove construction tube 4 inches (10.16 cm) below the finished grade. If the footing form should need to be removed, use form oil inside the footing form before pouring concrete.

7. REINFORCING STEEL

If reinforcing steel is required it must be designed by a qualified professional engineer in accordance with the Building Codes.

8. SPACING OF FOOTINGS

Spacing of the footing forms is dependent on design loads at respective locations.

9. LOADS FOR SOUND FOOTINGS LLC FOOTING FORMS

Allowable loads for the various footing forms can be found in **Table 2**.

INSTALLATION MANUAL

2. INTRODUCTION

The Sound Footings™ footing forms come in three sizes: **MODELS SF 22, SF 28 , and SF 32** . Each model accepts various diameter construction tubes, as per Table 1, Figure 1.

TABLE 1

Ring Diameter	SF 22 in. (cm.)	SF 28 in. (cm.)	SF 32 in. (cm.)
D1	7.530 (19.126)	7.530 (19.126)	11.500 (29.210)
D2	8.025 (20.384)	8.025 (20.384)	12.000 (30.480)
D3	8.450 (21.463)	8.450 (21.463)	12.450 (31.623)
D4	9.475 (24.067)	9.475 (24.067)	14.100 (35.814)
D5	9.900 (25.146)	9.900 (25.146)	16.100 (40.894)
D6	10.400 (26.416)	10.400 (26.416)	18.100 (45.974)
D8	n/a	11.500 (29.210)	n/a
D9	n/a	12.00 (30.480)	n/a
D10	n/a	12.450 (31.623)	n/a
D7	23.500 (59.690)	30.000 (76.200)	34.500 (87.630)
D0	22.000 (55.880)	28.000 (71.120)	32.000 (81.280)

Ring Height	SF 22 in. (cm.)	SF 28 in. (cm.)	SF 32 in. (cm.)
H1	16.600 (42.164)	20.000 (50.800)	22.100 (56.134)
H2	15.431 (39.195)	19.000 (48.260)	20.850 (52.959)
H3	14.013 (35.593)	18.000 (45.720)	19.600 (49.784)
H4	12.850 (32.639)	17.000 (43.180)	18.350 (46.609)
H5	11.681 (29.670)	16.000 (40.640)	16.600 (42.164)
H6	10.263 (26.068)	15.000 (38.100)	14.600 (37.084)
H7	n/a	14.000 (35.560)	n/a
H8	n/a	13.000 (32.020)	n/a
H9	n/a	12.000 (30.480)	n/a
Wall Thickness	0.100 (0.254)	0.100 (0.254)	0.100 (0.254)

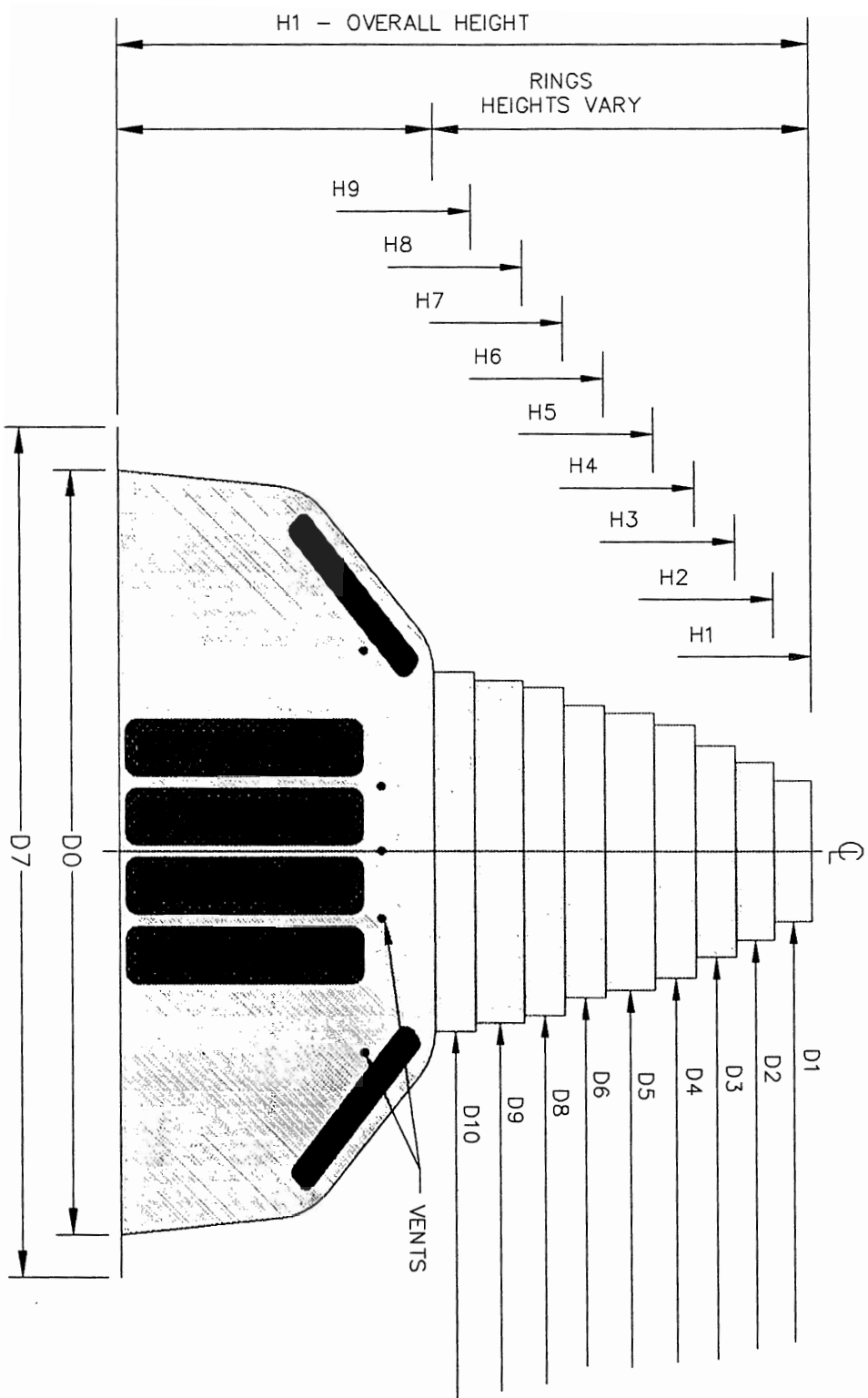


FIGURE 1 (NOT TO SCALE)

PRESUMPTIVE LOADBEARING VALUES OF FOUNDATION MATERIALS

FOR

MODELS SF 22, SF 28, and SF 32

Soil Description	Allowable Soil Bearing Pressure psf (kPa)	TB 22 Allowable Load lbs. (kN)	TB28 Allowable Load lbs. (kN)	TB 32 Allowable Load lbs. (kN)
Soft Clay	1,000 psf (47.88)	3,360 (14.9)	5,440 (24.0)	7,100 (31.6)
Clay, sandy clay, silty clay & clayey silt	2,000 psf (95.76)	6,720 (29.9)	10,880 (48.4)	14,200 (63.1)
Sand, silty sand, clayey sand, silty gravel and clayey gravel	3,000 psf (143.64)	10,000 (44.5)	16,320 (72.6)	21,300 (94.7)
Sandy gravel or gravel	5,000 psf (239.40)	16,800 (74.7)	27,200 (121.0)	35,500 (157.8)
Sedimentary Rock	6,000 psf (287.28)	20,000 (88.9)	32,640 (145.2)	42,600 (189.4)
Crystalline bedrock	12,000psf (574.56)	40,300 (179.2)	65,280 (290.4)	85,200 (378.8)

- 1) The allowable loads shown conform to BOCA National Building Code, 1996 Section 1804.3.
- 2) Minimum concrete compressive strength shall be 3000 psi at 28 days.
- 3) Gravity loads include only dead loads (weight of construction materials) and service loads such as snow loads. Pier design and their ability to resist lateral and uplift loads is beyond the scope of this table.
- 4) Piers requiring design for earthquake loads shall be designed by a qualified Professional Engineer.
- 5) Maximum lift when pouring concrete is 16 inches (40.64 cm).
- 6) Sound Footing footing forms are not intended as a substitute foundation system for the full foundations commonly used under residential housing unless they have been designed to do so by a qualified professional engineer.

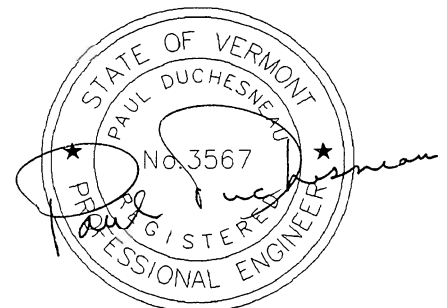
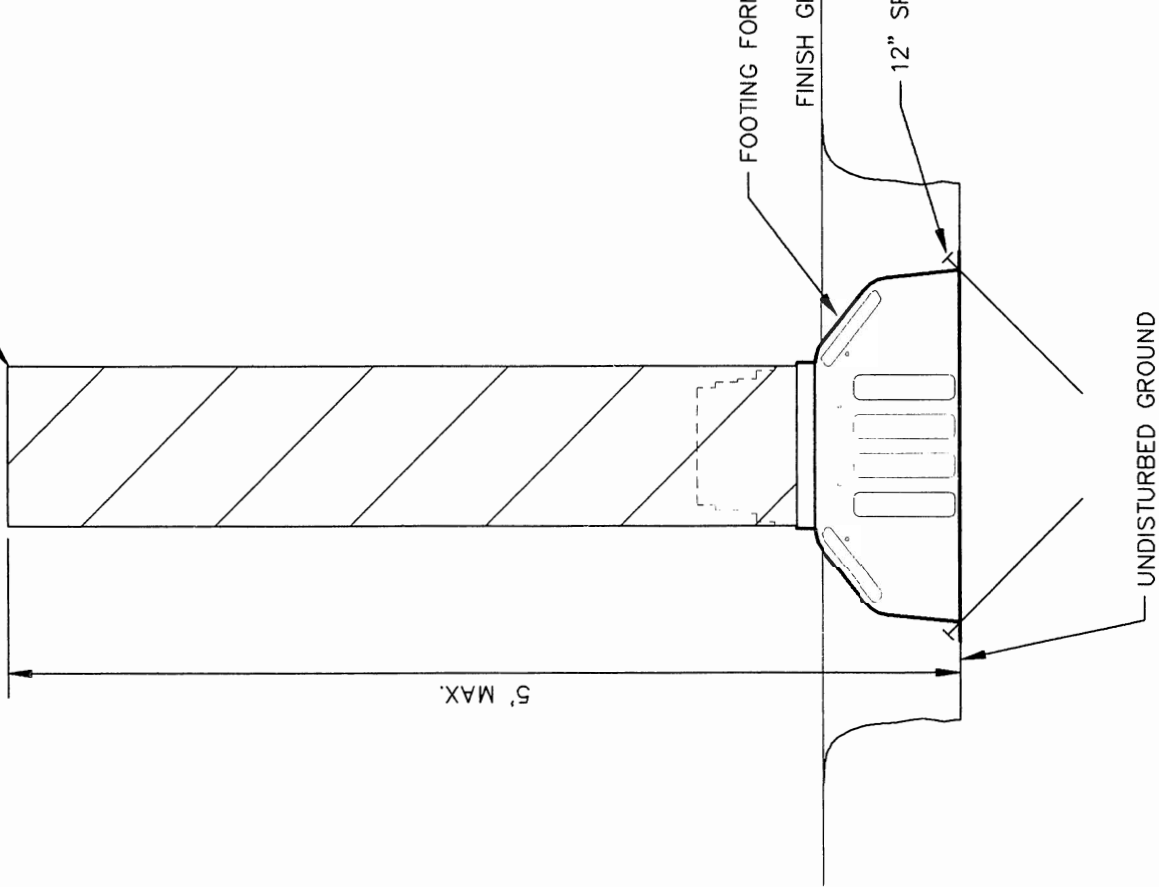


TABLE 2

CONSTRUCTION TUBE



5' MAX.

FOOTING FORM

FINISH GRADE

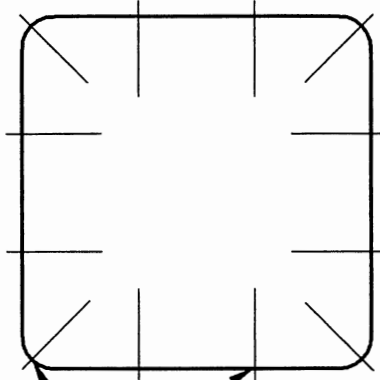
12" SPIKES @ 45° ANGLE

UNDISTURBED GROUND

NOTES: ABOVE GROUND APPLICATION

1. THE TOTAL COMBINED HEIGHT OF SOUND FOOTINGS™ FOOTING FORM MUST NOT EXCEED FIVE FEET (5').
2. DRILL 3/8" HOLE AT A 45° ANGLE AT TWELVE LOCATIONS. (SEE PATTERN BELOW)
3. DRIVE A 12" SPIKE THROUGH 3/8" HOLE AT A 45° ANGLE INWARDS.
4. TUBES MUST BE BRACED ONCE THE COMBINED HEIGHT EXCEEDS THREE FEET (3') ABOVE GROUND.
5. SCAB BOARDS ARE FASTENED TO THE CONSTRUCTION TUBE WITH 1-1/4" WOOD SCREWS FROM THE INSIDE OF THE TUBE.
6. SOUND FOOTINGS™ FOOTING FORM MUST BE PLACED ON UNDISTURBED GROUND.
7. CHECK ALIGNMENT OF CONSTRUCTION TUBE BEFORE POURING CONCRETE.

12" SPIKE LOCATIONS, TYP.



SOUND FOOTINGS™ FOOTING FORM

TITLE

ABOVE GROUND APPLICATION

SIZE **SF 22**

DWG NO. SF-101

REV.

SCALE 1" = 1'

DATE 9/24/01

SHEET

1 of 9

CONSTRUCTION TUBE

FINISH GRADE

BACKFILL
LIFT 4

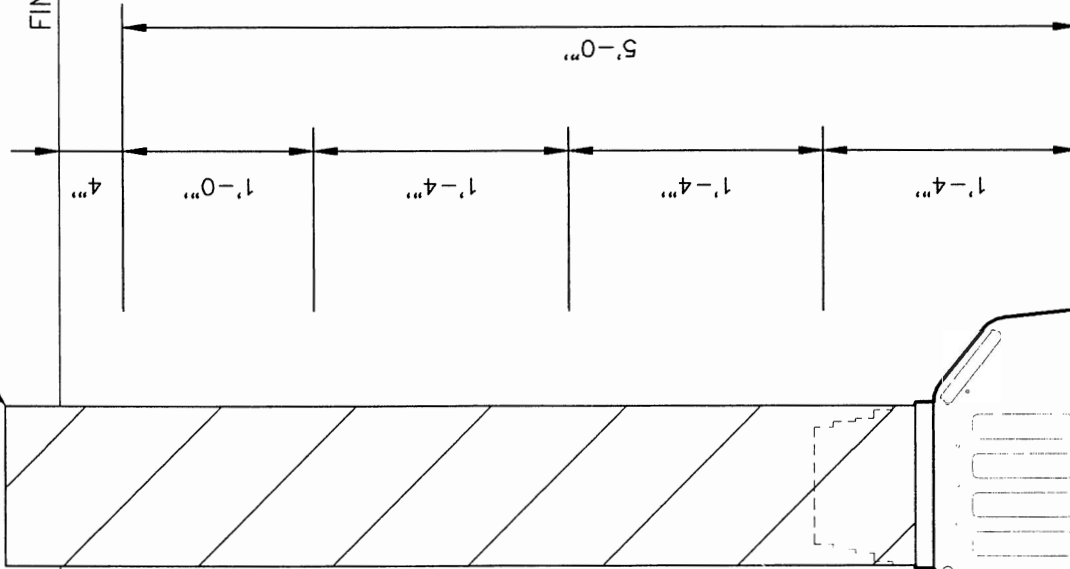
BACKFILL
LIFT 3

BACKFILL
LIFT 2

BACKFILL
LIFT 1

FOOTING FORM

UNDISTURBED GROUND OR 4" TO 6"
COMPACTED CRUSHED STONE OR GRAVEL



NOTES: BELOW GRADE APPLICATION

1. THE TOTAL COMBINED HEIGHT OF SOUND FOOTINGS™ FOOTING FORM MUST NOT EXCEED THIRTEEN FEET (13').
2. SCREW CONSTRUCTION TUBE TO FOOTING FORMS WITH A MINIMUM OF FOUR (4) 3/4" - 1" WOOD SCREWS.
3. SOUND FOOTINGS™ FOOTING FORMS MUST BE PLACED ON UNDISTURBED GROUND OR 4"-6" COMPACTED GRAVEL.
4. CHECK ALIGNMENT OF CONSTRUCTION TUBE BEFORE BACKFILLING.
5. BACKFILL MUST BE PLACED UP TO LIFT 1, APPROXIMATELY 16" OF BACKFILL FROM THE BOTTOM OF THE FOOTING FORM. BACKFILL SHOULD BE CONSOLIDATED WITH A MANUAL PLATE TAMPER OR A 2"x4" ON END. MECHANICAL PLATE COMPACTION EQUIPMENT MAY BE USED TO FACILITATE COMPACTION. DO NOT STRIKE SOUND FOOTINGS™ FOOTING FORM. DO NOT OVER CONSOLIDATE SO AS TO DISTORT THE SHELL OF FOOTING FORM.
6. COMPLETE BACKFILL OF BELOW GRADE PIERS UP TO A MAXIMUM HEIGHT OF FIVE FEET (5'). EACH LIFT SHOULD BE CONSOLIDATED WITH A MANUAL PLATE TAMPER OR A 2"x4" ON END.



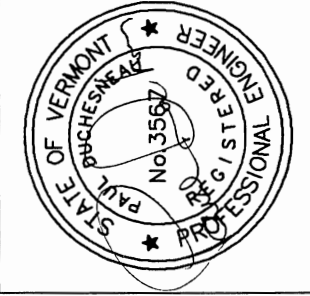
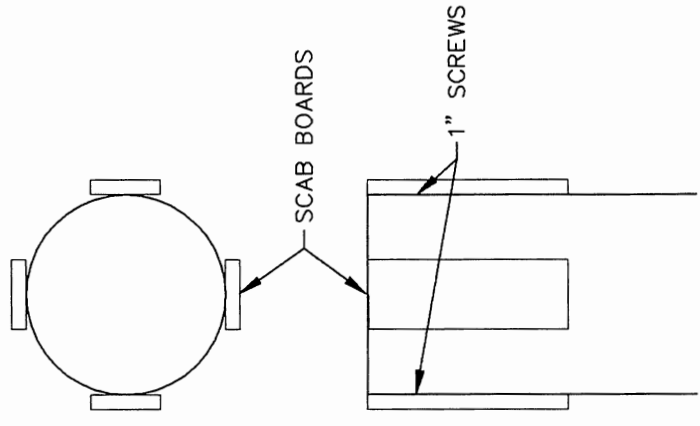
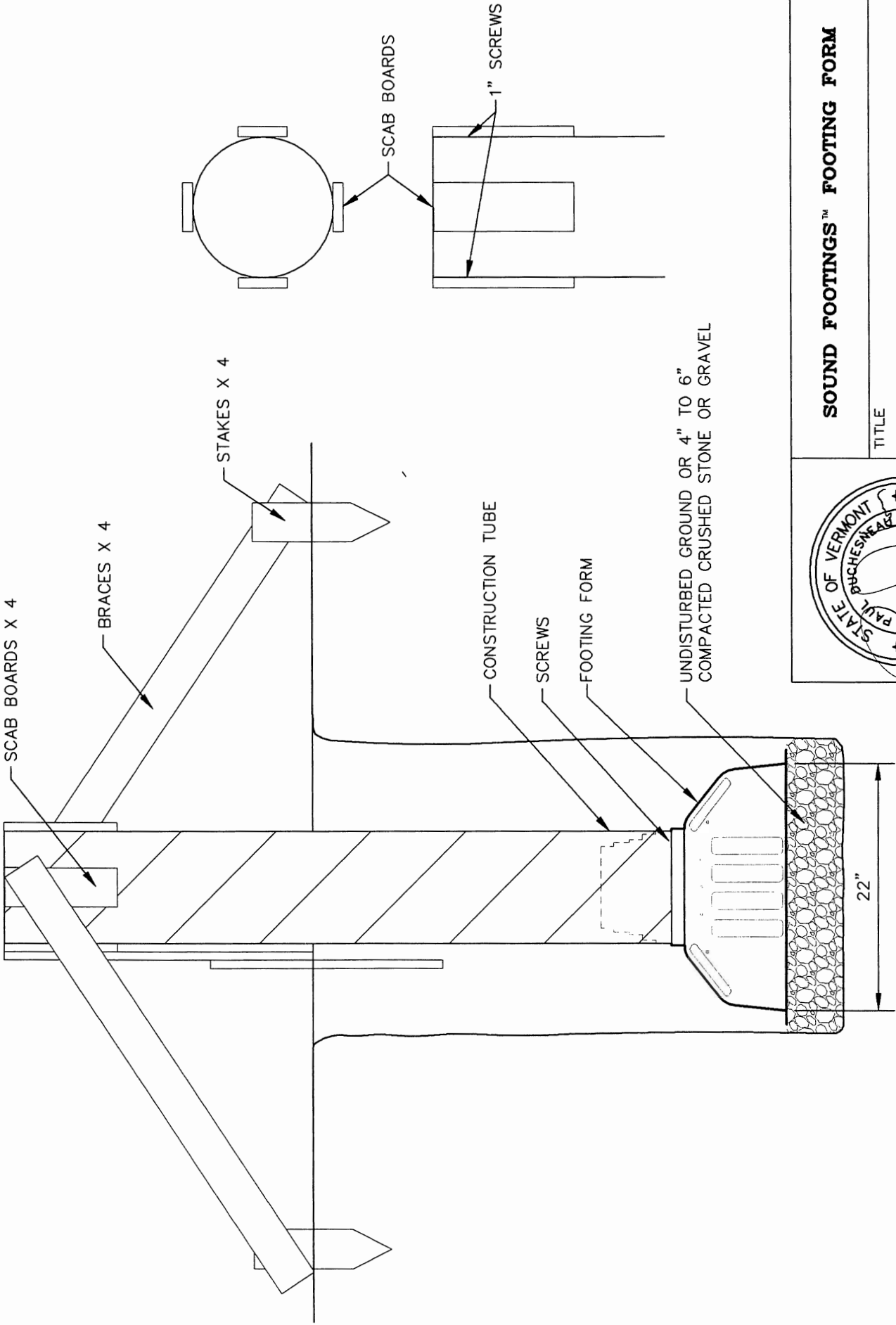
SOUND FOOTINGS™ FOOTING FORM

TITLE

BELOW GRADE APPLICATION

SIZE	SF 22	DWG NO.	SF-102	REV.
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SCALE	1" = 1'	DATE	9/24/01	SHEET	2 of 9
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SOUND FOOTINGS™ FOOTING FORM

TITLE

BRACING

SIZE SF 22

DWG NO. SF-103

REV.

SCALE 1" = 1'

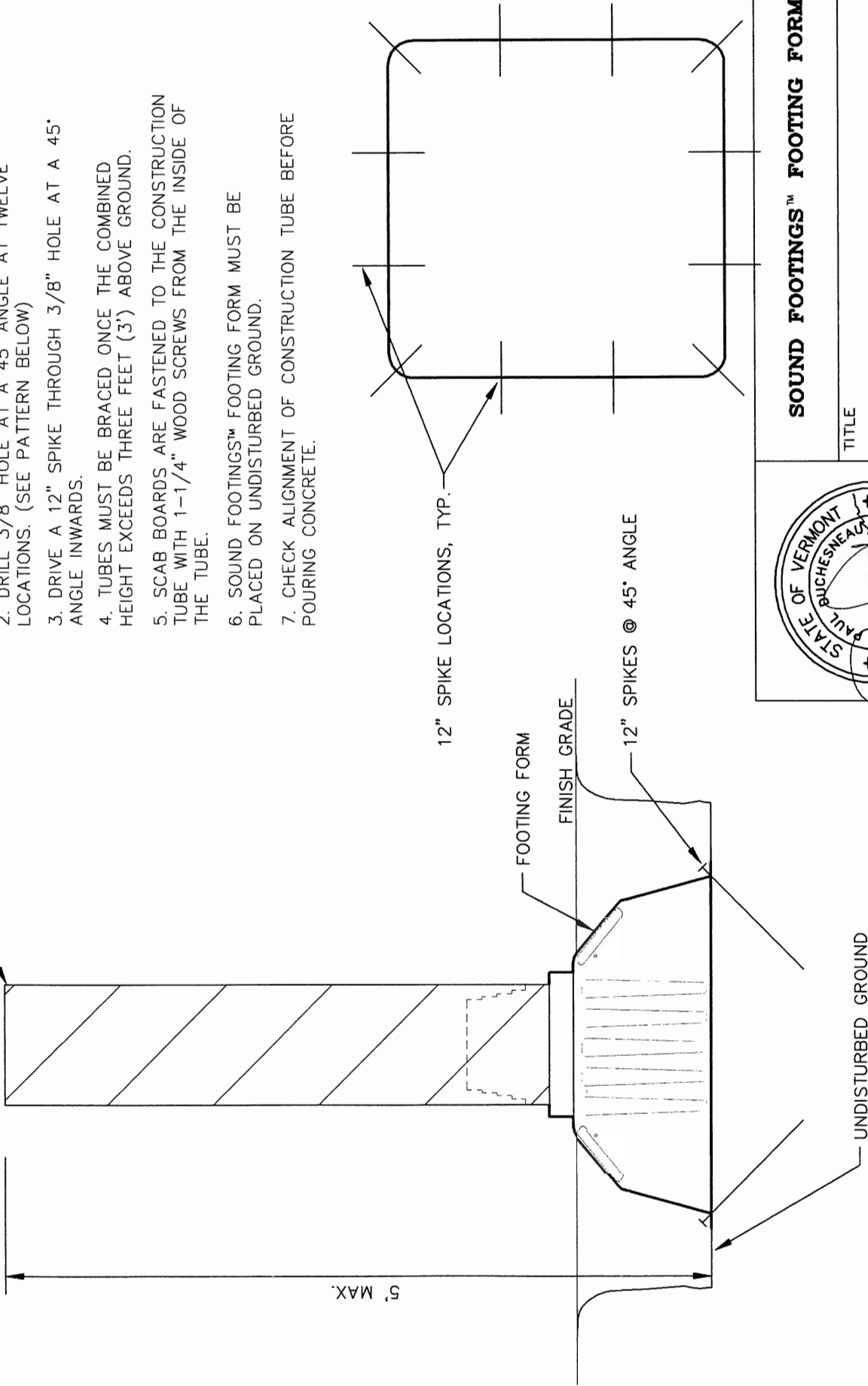
DATE 9/24/01

SHEET 3 of 9

NOTES: ABOVE GROUND APPLICATION

1. THE TOTAL COMBINED HEIGHT OF SOUND FOOTINGS™ FOOTING FORM MUST NOT EXCEED FIVE FEET (5').
2. DRILL 3/8" HOLE AT A 45° ANGLE AT TWELVE LOCATIONS. (SEE PATTERN BELOW)
3. DRIVE A 12" SPIKE THROUGH 3/8" HOLE AT A 45° ANGLE INWARDS.
4. TUBES MUST BE BRACED ONCE THE COMBINED HEIGHT EXCEEDS THREE FEET (3') ABOVE GROUND.
5. SCAB BOARDS ARE FASTENED TO THE CONSTRUCTION TUBE WITH 1-1/4" WOOD SCREWS FROM THE INSIDE OF THE TUBE.
6. SOUND FOOTINGS™ FOOTING FORM MUST BE PLACED ON UNDISTURBED GROUND.
7. CHECK ALIGNMENT OF CONSTRUCTION TUBE BEFORE POURING CONCRETE.

CONSTRUCTION TUBE



12" SPIKE LOCATIONS, TYP.

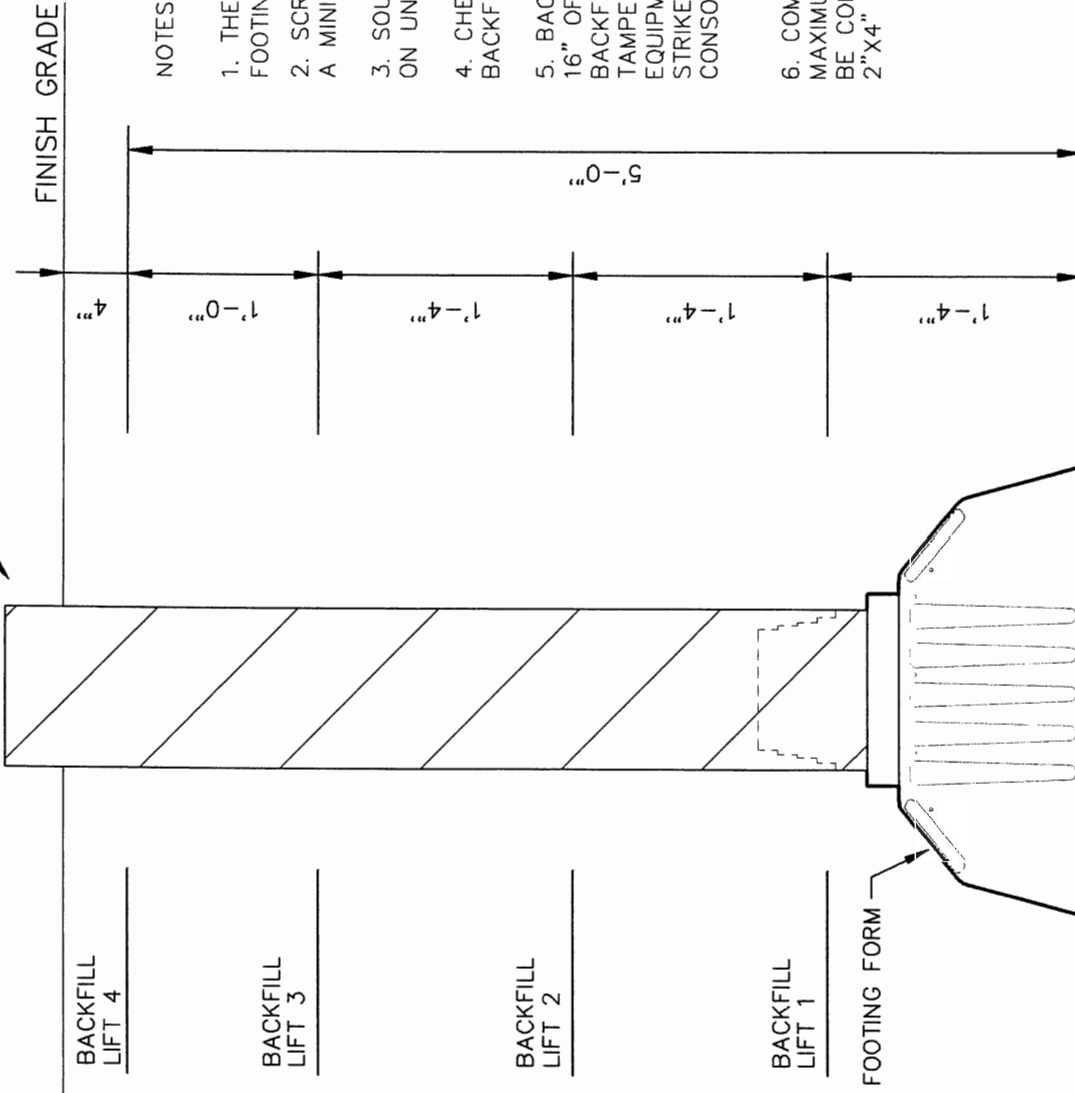
12" SPIKES @ 45° ANGLE



SOUND FOOTINGS™ FOOTING FORM

TITLE		ABOVE GROUND APPLICATION	
SIZE	DWG NO.	REV.	
SF 28	SF-104		
SCALE	DATE	SHEET	4 of 9
1" = 1'	2/27/02		

CONSTRUCTION TUBE



BACKFILL
LIFT 4

BACKFILL
LIFT 3

BACKFILL
LIFT 2

BACKFILL
LIFT 1

FOOTING FORM

UNDISTURBED GROUND OR 4" TO 6"
COMPACTED CRUSHED STONE OR GRAVEL

NOTES: BELOW GRADE APPLICATION

1. THE TOTAL COMBINED HEIGHT OF SOUND FOOTINGS™ FOOTING FORM MUST NOT EXCEED THIRTEEN FEET (13').
2. SCREW CONSTRUCTION TUBE TO FOOTING FORMS WITH A MINIMUM OF FOUR (4) 3/4" - 1" WOOD SCREWS.
3. SOUND FOOTINGS™ FOOTING FORMS MUST BE PLACED ON UNDISTURBED GROUND OR 4"-6" COMPACTED GRAVEL.
4. CHECK ALIGNMENT OF CONSTRUCTION TUBE BEFORE BACKFILLING.
5. BACKFILL MUST BE PLACED UP TO LIFT 1, APPROXIMATELY 16" OF BACKFILL FROM THE BOTTOM OF THE FOOTING FORM. BACKFILL SHOULD BE CONSOLIDATED WITH A MANUAL PLATE TAMPER OR A 2"x4" ON END. MECHANICAL PLATE COMPACTION EQUIPMENT MAY BE USED TO FACILITATE COMPACTION. DO NOT STRIKE SOUND FOOTINGS™ FOOTING FORM. DO NOT OVER CONSOLIDATE SO AS TO DISTORT THE SHELL OF FOOTING FORM.
6. COMPLETE BACKFILL OF BELOW GRADE PIERS UP TO A MAXIMUM HEIGHT OF FIVE FEET (5'). EACH LIFT SHOULD BE CONSOLIDATED WITH A MANUAL PLATE TAMPER OR A 2"x4" ON END.



SOUND FOOTINGS™ FOOTING FORM

TITLE

BELOW GRADE APPLICATION

SIZE **SF 28**

DWG NO.

SF-105

REV.

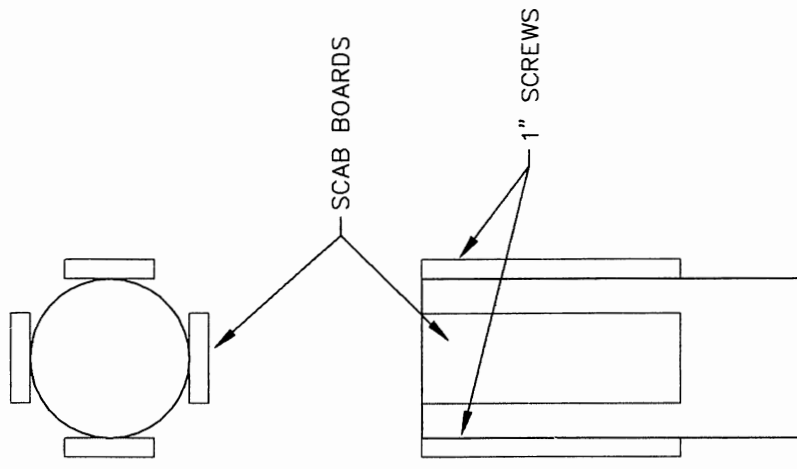
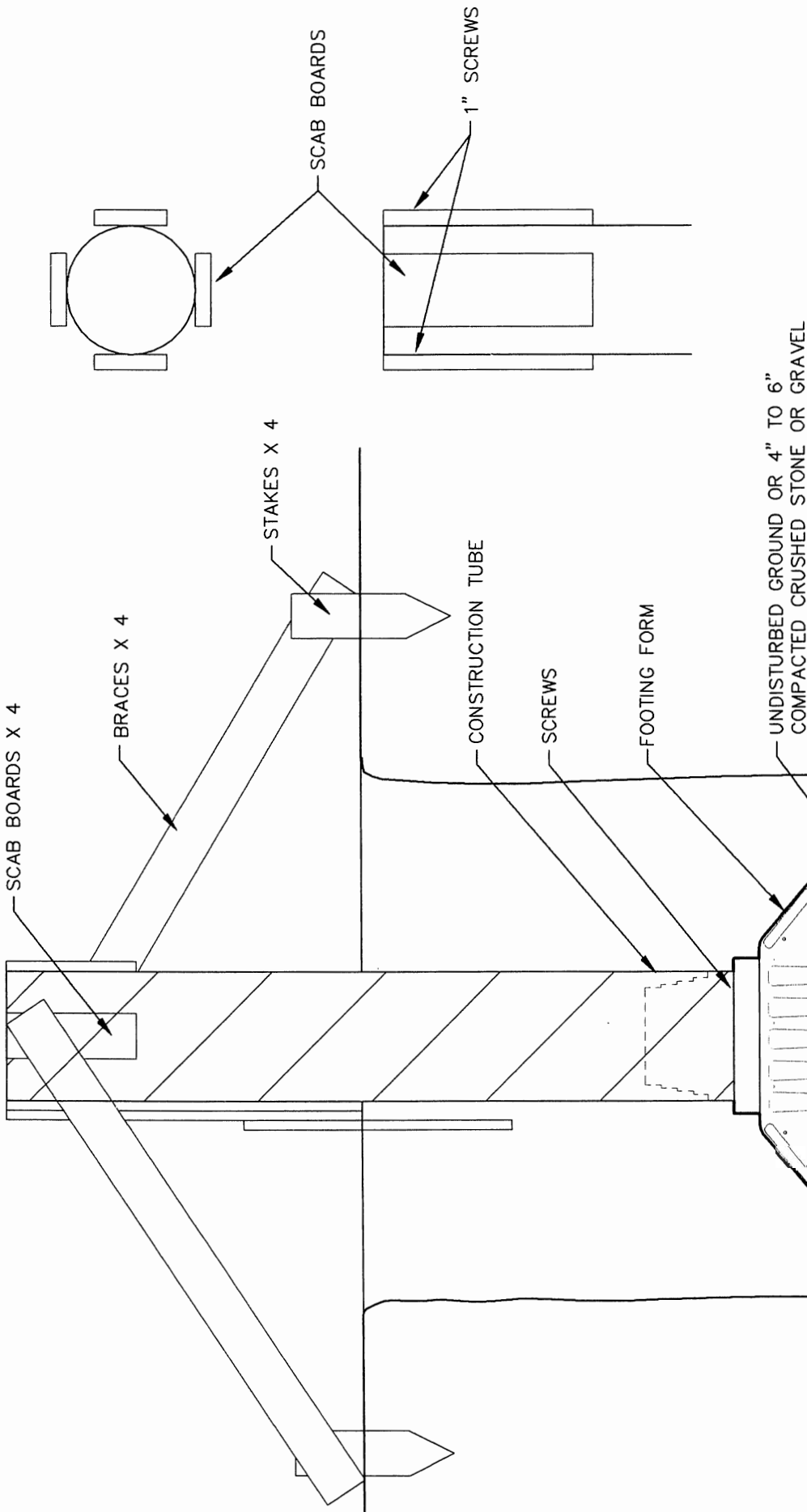
SCALE 1" = 1'

DATE

2/27/02

SHEET

5 of 9



SOUND FOOTINGS™ FOOTING FORM

TITLE

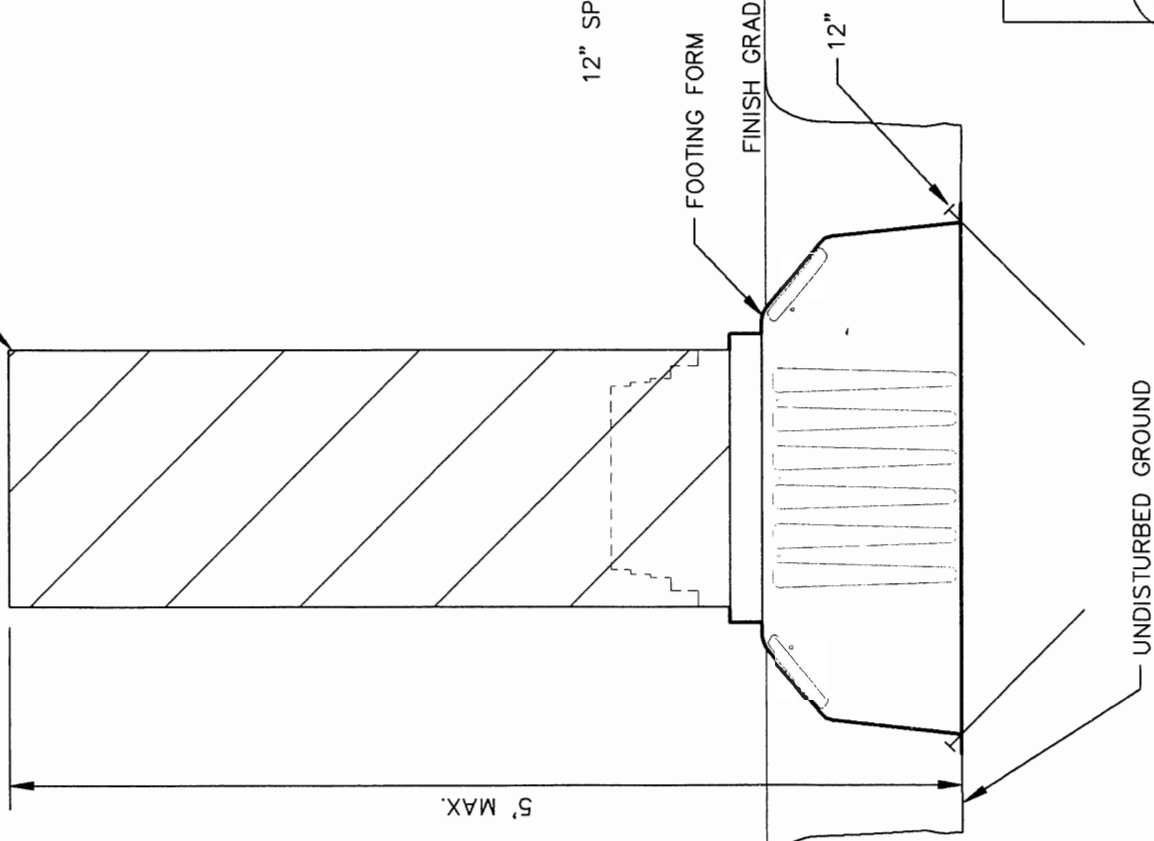
BRACING

SIZE	SF 28	DWG NO.	SF-106	REV.
SCALE	1" = 1'	DATE	2/27/02	SHEET 6 of 9

NOTES: ABOVE GROUND APPLICATION

1. THE TOTAL COMBINED HEIGHT OF SOUND FOOTINGS™ FOOTING FORM MUST NOT EXCEED FIVE FEET (5').
2. DRILL 3/8" HOLE AT A 45° ANGLE AT TWELVE LOCATIONS. (SEE PATTERN BELOW)
3. DRIVE A 12" SPIKE THROUGH 3/8" HOLE AT A 45° ANGLE INWARDS.
4. TUBES MUST BE BRACED ONCE THE COMBINED HEIGHT EXCEEDS THREE FEET (3') ABOVE GROUND.
5. SCAB BOARDS ARE FASTENED TO THE CONSTRUCTION TUBE WITH 1-1/4" WOOD SCREWS FROM THE INSIDE OF THE TUBE.
6. SOUND FOOTINGS™ FOOTING FORM MUST BE PLACED ON UNDISTURBED GROUND.
7. CHECK ALIGNMENT OF CONSTRUCTION TUBE BEFORE POURING CONCRETE.

CONSTRUCTION TUBE



12" SPIKE LOCATIONS, TYP.

12" SPIKES @ 45° ANGLE

5' MAX.

UNDISTURBED GROUND



SOUND FOOTINGS™ FOOTING FORM

TITLE

ABOVE GROUND APPLICATION

SIZE **SF 32**

DWG NO. SF-107

REV.

SCALE 1" = 1'

DATE 9/24/01

SHEET 7 of 9

CONSTRUCTION

FINISH GRADE

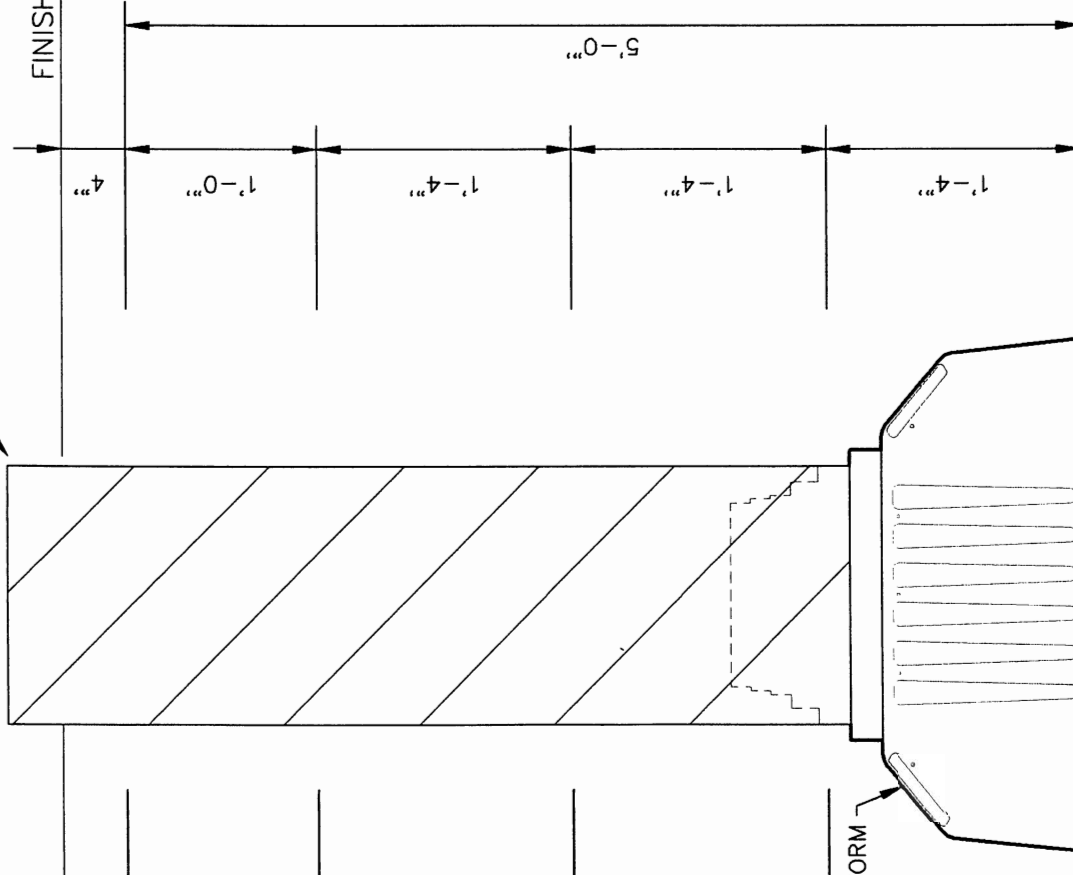
BACKFILL LIFT 4

BACKFILL LIFT 3

BACKFILL LIFT 2

BACKFILL LIFT 1

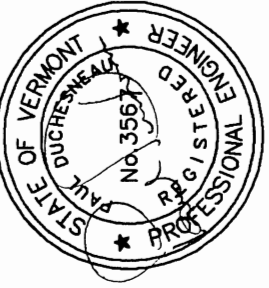
FOOTING FORM



NOTES: BELOW GRADE APPLICATION

1. THE TOTAL COMBINED HEIGHT OF SOUND FOOTINGS™ FOOTING FORM MUST NOT EXCEED THIRTEEN FEET (13').
2. SCREW CONSTRUCTION TUBE TO FOOTING FORMS WITH A MINIMUM OF FOUR (4) 3/4"- 1" WOOD SCREWS.
3. SOUND FOOTINGS™ FOOTING FORMS MUST BE PLACED ON UNDISTURBED GROUND OR 4"-6" COMPACTED GRAVEL.
4. CHECK ALIGNMENT OF CONSTRUCTION TUBE BEFORE BACKFILLING.
5. BACKFILL MUST BE PLACED UP TO LIFT 1, APPROXIMATELY 16" OF BACKFILL FROM THE BOTTOM OF THE FOOTING FORM. BACKFILL SHOULD BE CONSOLIDATED WITH A MANUAL PLATE TAMPER OR A 2"x4" ON END. MECHANICAL PLATE COMPACTION EQUIPMENT MAY BE USED TO FACILITATE COMPACTION. DO NOT STRIKE SOUND FOOTINGS™ FOOTING FORM. DO NOT OVER CONSOLIDATE SO AS TO DISTORT THE SHELL OF FOOTING FORM.
6. COMPLETE BACKFILL OF BELOW GRADE PIERS UP TO A MAXIMUM HEIGHT OF FIVE FEET (5'). EACH LIFT SHOULD BE CONSOLIDATED WITH A MANUAL PLATE TAMPER OR A 2"x4" ON END.

UNDISTURBED GROUND OR 4" TO 6" COMPACTED CRUSHED STONE OR GRAVEL



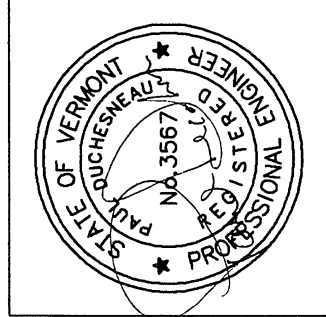
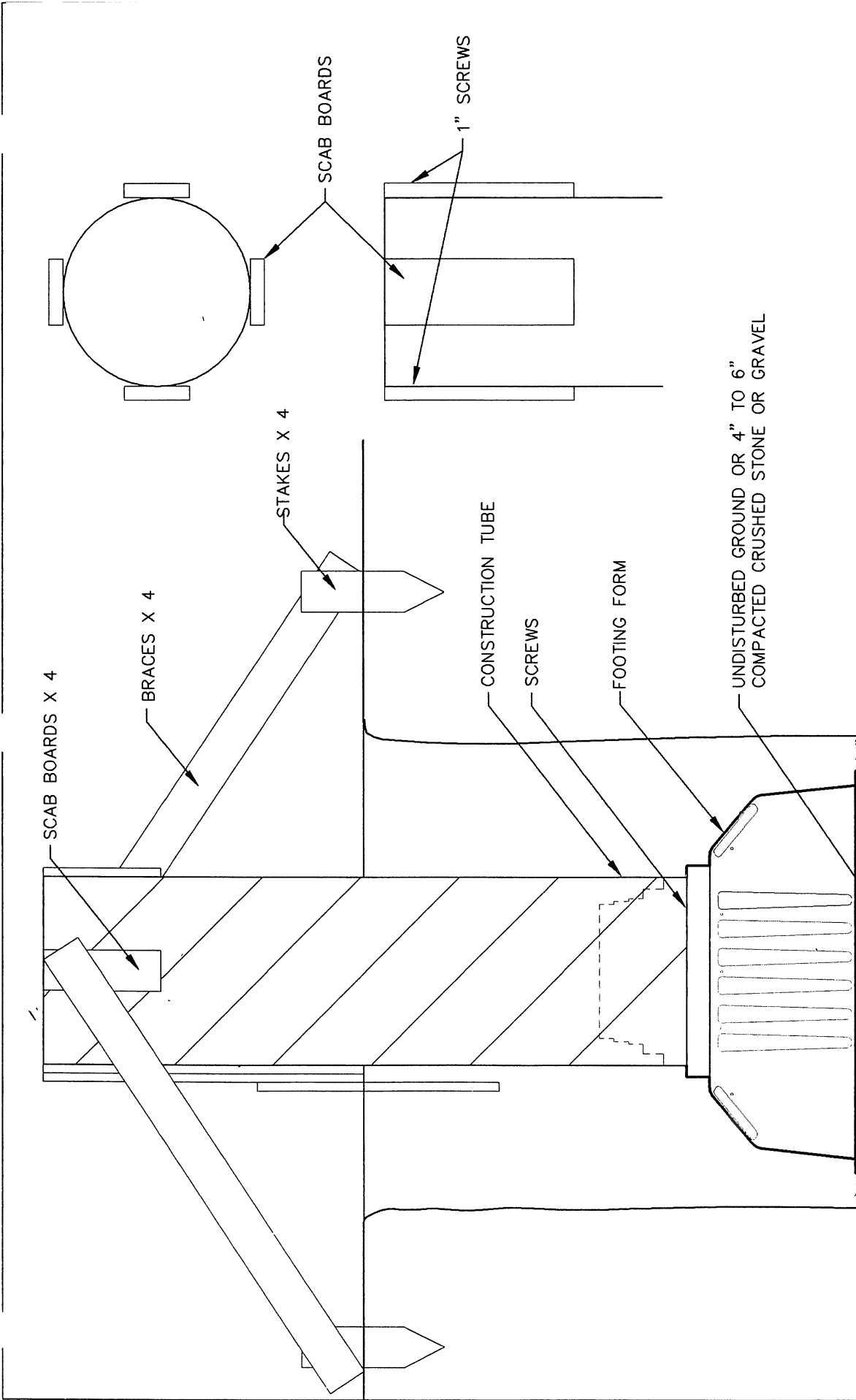
SOUND FOOTINGS™ FOOTING FORM

TITLE

BELOW GRADE APPLICATION

SIZE	DWG NO.	REV.
SF 32	SF-108	

SCALE	DATE	SHEET
1" = 1'	9/24/01	8 of 9



SOUND FOOTINGS™ FOOTING FORM		
TITLE	BRACING	
SIZE	DWG NO.	REV.
SF 32	SF-109	
SCALE	DATE	SHEET
1" = 1'	9/24/01	9 of 9