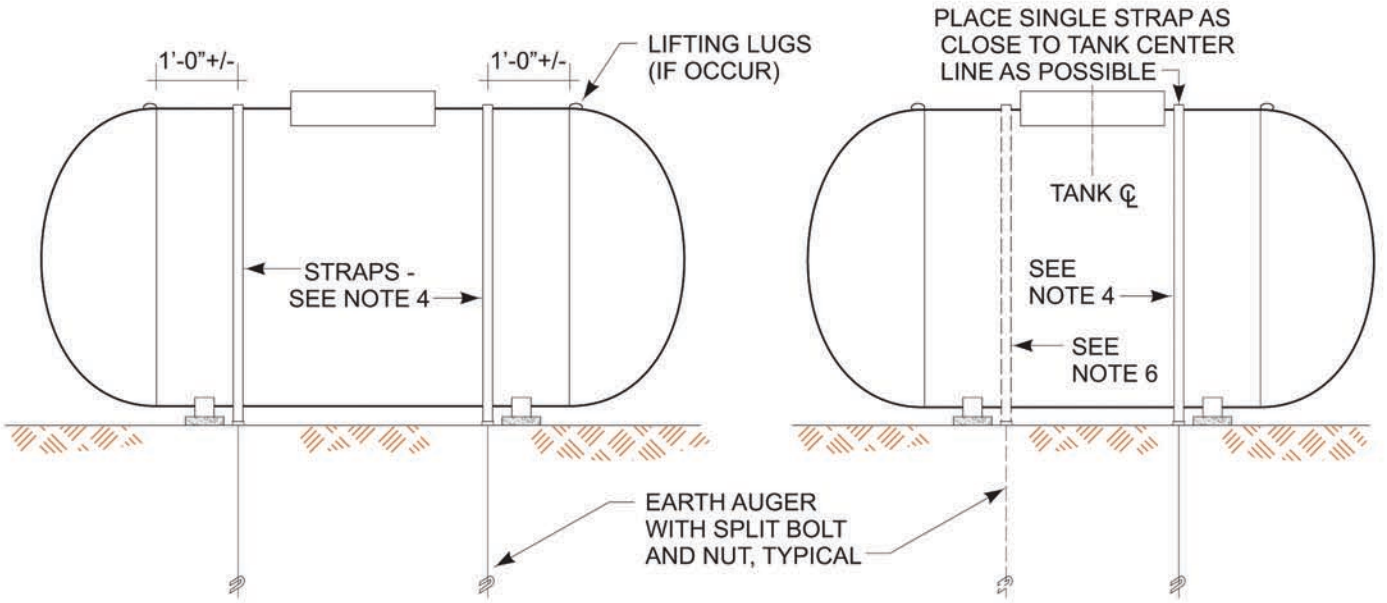
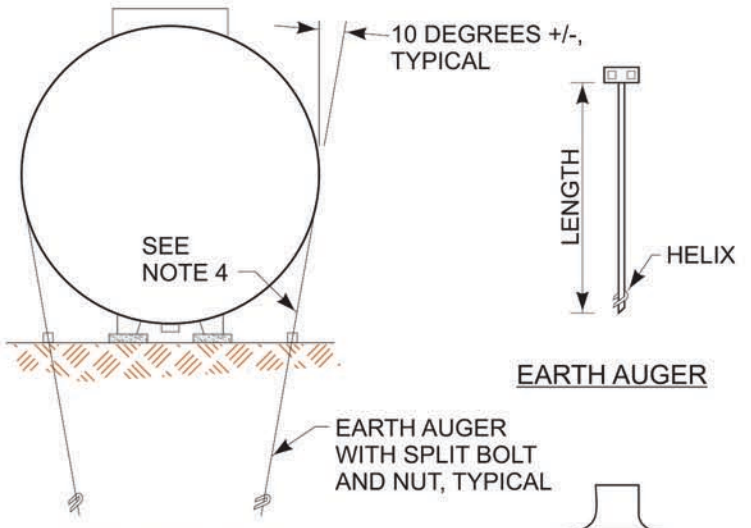


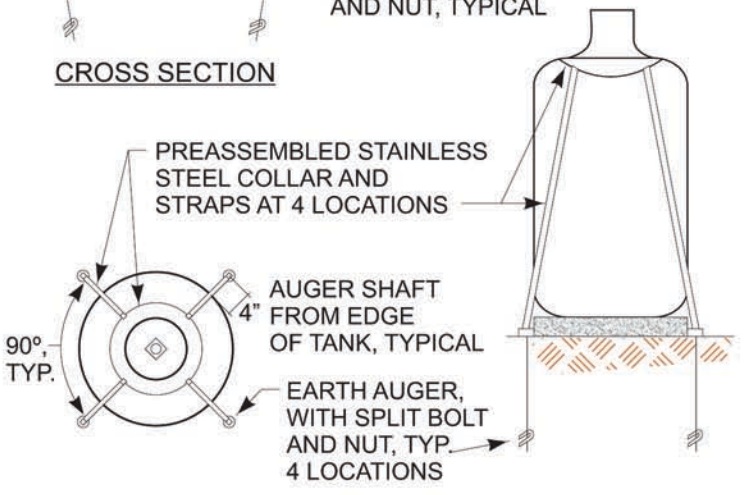
351-1500 GALLON TANK ELEVATION
2 STRAP PLACEMENT

UP TO 350 GALLON TANK ELEVATION
1 STRAP PLACEMENT



EARTH AUGER

CROSS SECTION



BOTTLE TYPE TANK
PLAN VIEW

BOTTLE TYPE TANK
ELEVATION

NOTES

1. PRIOR TO INSTALLING THE EARTH AUGERS, CHECK FOR UNDERGROUND UTILITIES.
2. THE EARTH AUGERS AND STRAPS SHOWN HEREON ARE DESIGNED TO RESIST THE BOUYANCY FORCES FROM AN EMPTY TANK FULLY SUBMERGED, AND THE LATERAL FORCES GENERATED FROM SEISMIC ZONE 4 ACTIVITY.
3. EARTH AUGER TYPES AND LENGTHS REQUIRED ARE DEPENDANT UPON THE EXISTING SOIL CONDITIONS:
   a. ALL CLASS 5 SOILS (CLAY, SANDY CLAY, SILTY CLAY AND CLAYEY SILT) AND SAND, SILTY SAND AND CLAYEY SAND OF THE CLASS 4 SOILS REQUIRE EARTH AUGERS OF MINIMUM 48 INCHES IN LENGTH AND (1) 6 INCH DIAMETER HELIX.
   b. CLASS 4 AND BETTER SOILS WITH THE EXCEPTION OF SAND, SILTY SAND, AND CLAYEY SAND REQUIRE EARTH AUGERS OF MINIMUM 32 INCHES IN LENGTH AND (2) 4 INCH DIAMETER HELIXES.
   c. EARTH AUGERS SHALL HAV A TESTED MINIMUM PULL OUT VALUE OF 6000 LBS.
4. STRAPS SHALL BE ONE OF THE FOLLOWING:
   a. 1-1/4"x0.031" STAINLESS STEEL, 301-1/4 HARD, MINIMUM TENSILE STRENGTH OF 4750 LBS
   b. 1-1/4"x0.031" GALVANIZED STEEL, CLASS B, GRADE 1, MINIMUM TENSILE STRENGTH OF 4750 LBS.
5. IN THE EVENT EARTH AUGERS ARE PRECLUDED FROM INSTALLATION, ALTERNATE TETHERING DESIGNS CAN BE SUBMITTED FOR CONSIDERATION.
6. IN ALL CASES, WHEN TANKS UP TO 350 GALLONS ARE PLACED IN AREAS OF SOIL TYPES AS DESCRIBED IN NOTE 3a, 2 STRAPS AND 4 EARTH AUGERS ARE REQUIRED. EARTH AUGER SIZE IS AS NOTED IN 3-a.
7. MINIMUM DISTANCES OF TANKS FROM STRUCTURES AND PROPERTY LINES:

CHAPTER 38 CALIFORNIA FIRE CODE
Distance from buildings and property lines based on size of LPG container capacity.

SIZE	UNDERGROUND	ABOVEGROUND
0-125	10	5 with conditions
125-500	10	10
501-2000	10	25
2001-30,000	50	50

All others see CFC Table

8. Earth Augers are required in areas subject to flooding. All others may be bolted or cable tied to a concrete slab seismic only. Per CFC

SEISMIC STABILIZATION & SEPARATIONS

FIRE SAFE STANDARDS

SONOMA COUNTY
FIRE AND EMERGENCY SERVICES DEPARTMENT
2300 COUNTY CENTER DR
Santa Rosa, California 95403
Telephone (707) 565-1152 Fax (707) 565-1172

NOT TO SCALE	F16
SCALE	
02/11/03	
REVISION DATE	DRAWING NO