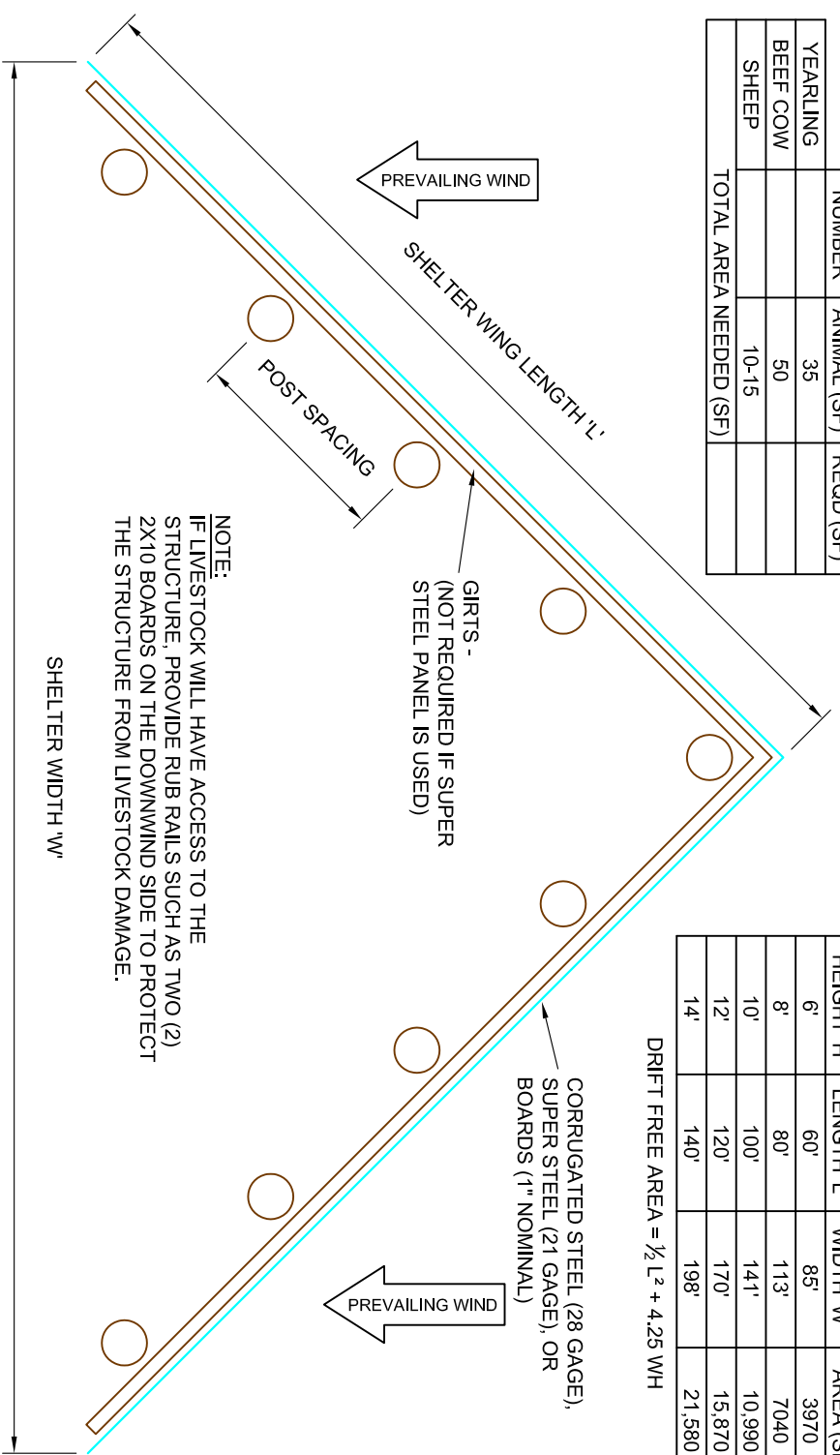


LIVESTOCK NUMBER	AREA PER ANIMAL (SF)	AREA REQD (SF)
YEARLING	35	
BEEF COW	50	
SHEEP	10-15	
TOTAL AREA NEEDED (SF)		

BARRIER HEIGHT 'H'	WING LENGTH 'L'	SHELTER WIDTH 'W'	DRIFT FREE AREA (SF)
6'	60'	85'	3970
8'	80'	113'	7040
10'	100'	141'	10,990
12'	120'	170'	15,870
14'	140'	198'	21,580

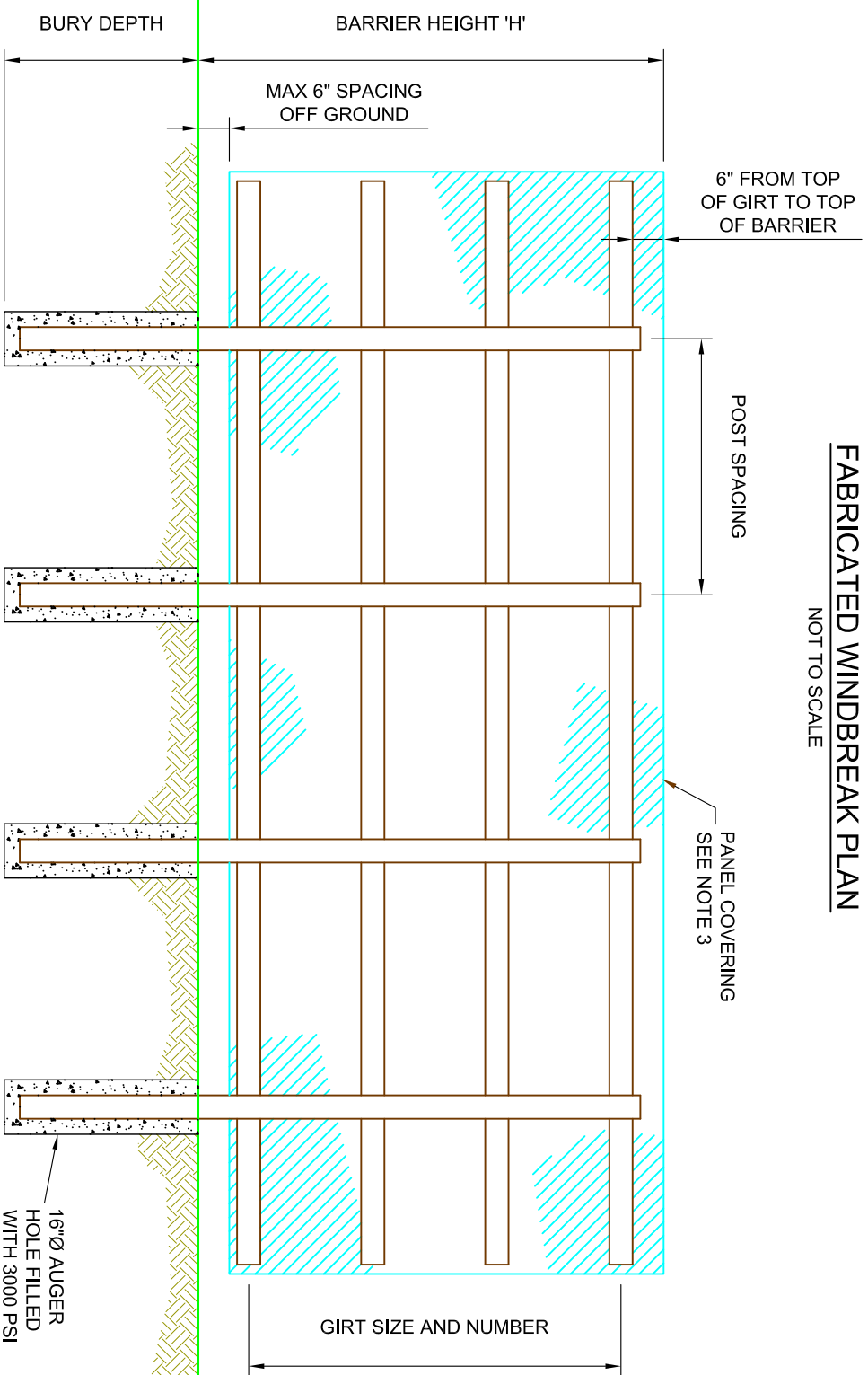
DRIFT FREE AREA = $\frac{1}{2} L^2 + 4.25 WH$



NOTE:
IF LIVESTOCK WILL HAVE ACCESS TO THE STRUCTURE, PROVIDE RUB RAILS SUCH AS TWO (2) 2X10 BOARDS ON THE DOWNWIND SIDE TO PROTECT THE STRUCTURE FROM LIVESTOCK DAMAGE.

FABRICATED WINDBREAK PLAN

NOT TO SCALE

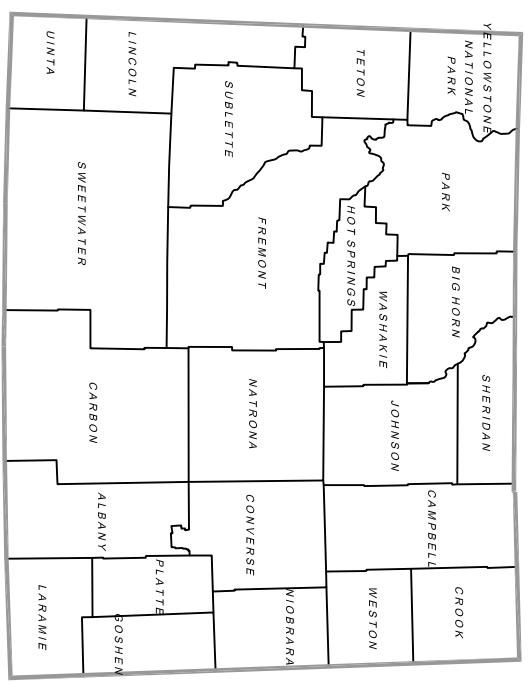


FABRICATED WINDBREAK ELEVATION

NOT TO SCALE

LOCATION MAP OF SECTION

Section _____, T _____, R _____



INDEX OF DRAWINGS

- C-1 COVER SHEET
- C-2 MATERIAL, SIZING, AND SPACING SELECTION CHARTS (125 PCF SOIL)

GENERAL NOTES AND SPECIFICATIONS:

1. UNINTERRUPTED SHELTER WIDTH 'W' SHALL BE 10 TO 15 TIMES SHELTER HEIGHT 'H'.
2. PREVAILING WIND DIRECTION SHALL BE DETERMINED BY FIELD INVESTIGATION.
3. PANEL COVERING SHALL BE 100% SOLID AND SHALL BE A MINIMUM NOMINAL 1" BOARDS, 28 GAGE COATED CORRUGATED STEEL, OR SIMILAR DURABILITY MATERIAL AS APPROVED BY NRCS ENGINEER. BOARDS OR PANELS SHALL BE ATTACHED TO THE WINDWARD SIDE OF THE SHELTER. IF PANEL COVERING IS MINIMUM 21 GAGE CORRUGATED SUPER STEEL, THEN HORIZONTAL BRACES OR GIRTS ARE NOT REQUIRED.
4. ALL WOOD MATERIAL SHALL BE SOUND, NEW WOOD FREE FROM DECAY AND DISEASE DAMAGE, AND SHALL BE STRAIGHT AND NOT CRACKED OR CHECKED. ALL POLES, POSTS, AND GIRTS SHALL BE PRESSURE TREATED BY ONE OF THE FOLLOWING PRESERVATIVES: CREOSOTE, PENTACHLOROPHENOL, OR WATERBORNE PRESERVATIVES (ARSENICALS) TREATED TO 0.4 POUNDS PER CUBIC FOOT RETENTION. WOOD USED IN PERMANENT CONTACT WITH EARTH SHALL BE TREATED TO A RETENTION LEVEL OF AT LEAST 0.6 POUNDS PER CUBIC FOOT. STEEL SHALL BE MALLEABLE, WELDABLE CARBON STEEL, AND SHALL BE GALVANIZED ACCORDING TO ASTM A123. BOLTS, RODS, NUTS, WASHERS, AND OTHER HARDWARE SHALL BE AN APPROPRIATE GRADE OF STEEL AND SHALL BE GALVANIZED.
5. STRUCTURES SHALL BE INSTALLED ACCURATELY TO THE DIMENSIONS SHOWN ON THE DRAWINGS. NAILS AND SPIKES SHALL BE DRIVEN IN WOOD WITH JUST SUFFICIENT FORCE TO SET THE HEADS FLUSH WITH THE SURFACE OF THE WOOD. BOLT HOLES SHALL BE DRILLED FOR SNUG FIT. HOLES FOR LAG SCREWS SHALL BE BORED WITH A BIT NOT LARGER THAN THE SHAFT OF THE SCREW AT THE BASE OF THE THREADS. WASHERS SHALL BE USED IN CONTACT WITH ALL BOLT HEADS AND NUTS THAT WOULD BE OTHERWISE IN CONTACT WITH WOOD. STEEL WELDS SHALL BE HEAVY DUTY WITH OBVIOUS STRENGTH EQUAL TO THE STRENGTH OF THE STRUCTURAL STEEL.
6. WINDBREAKS ARE DESIGNED TO FACE INTO THE PREVAILING WIND WITH PANELS SET AT APPROXIMATELY A 45-DEGREE ANGLE. TABLES AND CHARTS ARE CALCULATED BASED ON WIND SPEEDS AND PRESSURES NORMAL TO WALL SURFACE.
7. SOIL BEARING CAPACITIES ARE BASED ON SOIL DENSITY OF 125 LB/FT³ AND ALL POSTS BEING SET IN 16"Ø AUGER HOLES THAT ARE FILLED WITH 3,000 PSI LOW-SLUMP CONCRETE.
8. TABLES DO NOT SHOW DIMENSIONS FOR POSTS WHERE CALCULATED POST SPACING IS LESS THAN 6'-0".
9. TABLES SHOW MAXIMUM POST SPACING OF 12'-0" DUE TO LIMITATIONS OF GIRT OR PURLIN SPAN LENGTH SO THAT REASONABLY SIZED GIRTS OR PURLINS CAN BE USED.
10. POST SPACINGS FOR WOOD POSTS ARE BASED ON USING TREATED NOT SELECT GRADE DOUGLAS FIR WITH A FIBER STRENGTH OF F_b = 1200 PSI. IF SOME OTHER WOOD IS USED, THE TABLE WILL NEED TO BE ADJUSTED BASED ON THE RELATIVE STRENGTH OF THE WOOD SELECTED. RECOGNIZED LUMBER ASSOCIATION STAMPS OR DOCUMENTATION SHOWING STRUCTURAL PROPERTIES SHALL BE PROVIDED.
- 11.



FABRICATED WINDBREAK PLAN, ELEVATION, LOCATION MAP, AND GENERAL NOTES

FABRICATED WINDBREAKS

DESIGNED	DATE
DRAWN	DATE
CHECKED	DATE
APPROVED	DATE