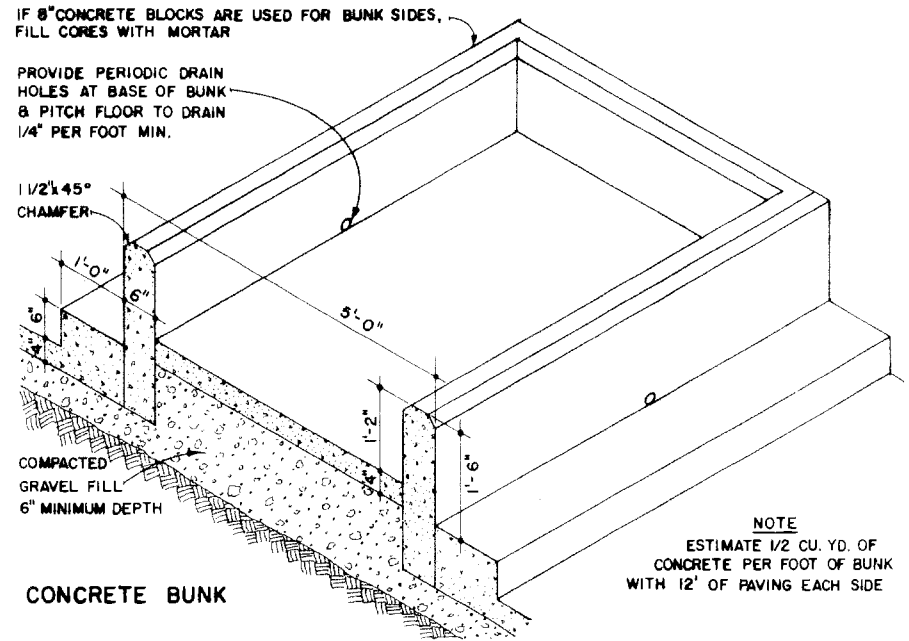


- REINFORCED CONCRETE BUNK**
1. REMOVE ALL TOPSOIL AND ORGANIC MATERIAL PRIOR TO PLACEMENT OF GRAVEL FILL.
  2. USE AIR-ENTRAINED CONCRETE TO REDUCE SCALING AND FROST ACTION ON THE SURFACE.

**BILL OF MATERIALS**  
10'-0" LONG BUNK

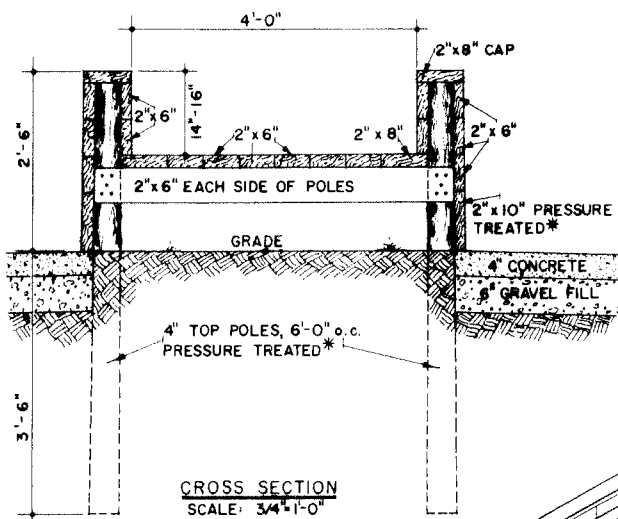
ITEM	DESCRIPTION	AMOUNT
CONCRETE	BUNK - SIDES, BOTTOM	1.4 CU. YDS.
CONCRETE PAVING	12' WIDE - BOTH SIDES	3.75 CU. YDS.
PLANK	2" x 10" x 10'-0"	2
ANGLES	1 1/2" x 1 1/2" x 2'-0"	4
REINFORCING	#3 Ø ROD	40 FEET
	#2 Ø ROD	33 FEET
BOLTS	CARRIAGE 1/2" x 3"	8



**NOTE**  
ESTIMATE 1/2 CU. YD. OF CONCRETE PER FOOT OF BUNK WITH 12' OF PAVING EACH SIDE

**REINFORCED CONCRETE BUNK**

**CONCRETE BUNK**

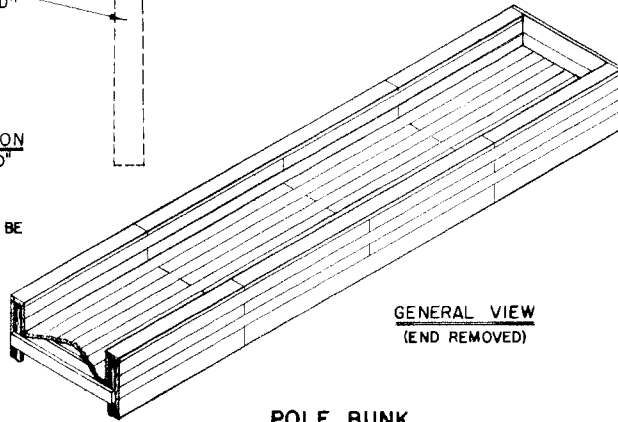


**BILL OF MATERIALS**  
60'-0" LONG BUNK

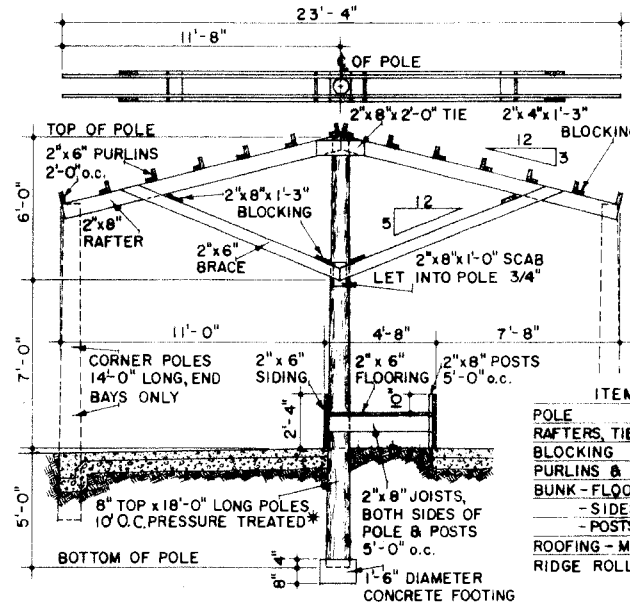
ITEM	SIZE	PCS.
POLES	4" TOP x 6'-0" LONG	22
JOISTS	2" x 6" x 5'-0"	22
FLOORING	2" x 6" x 12'-0"	30
	2'-0" o.c.	10
SIDES	2" x 6" x 12'-0"	50
	2" x 10" x 12'-0"	10
CAP	2" x 8" x 12'-0"	10
ENDS	2" x 6" x 5'-4"	4
	2" x 8" x 5'-4"	2
	2" x 10" x 5'-4"	2

\* PRESSURE TREATED MATERIAL SHALL BE CONSTRUCTION GRADE DOUGLAS FIR OR EQUAL & SHALL BE PRESSURE TREATED TO A PRESERVATIVE RETENTION OF 5-7 LBS PER CUBIC FOOT AS PER A.W.P.A. STANDARDS

**CAUTION:**  
SOME PRESSURE TREATED POSTS & LUMBER USE PRESERVATIVES THAT EPA DOES NOT ALLOW IN CONTACT WITH FEED. IN SUCH CASES PLYWOOD OR PLASTIC SHOULD BE USED AS A LINER. CHECK SUPPLIER OR LABELS FOR GUIDANCE.



**POLE BUNK**



**NOTE:**  
BUILD RAFTER-BRACE FRAME AS A UNIT BEFORE FASTENING TO POLES. BUILD ROOF PANELS AS A 12' x 10' UNIT.

**BILL OF MATERIALS**  
10'-0" LONG BUNK

ITEM	SIZE	PCS.
POLE	8" TOP x 18'-0" LONG	1
RAFTERS, TIES, SCABS	2" x 8" x 12'-0"	5
BLOCKING	2" x 4" x 16'-0"	1
PURLINS & BRACES	2" x 6" x 10'-0"	18
BUNK - FLOOR	2" x 6" x 10'-0"	7
- SIDES	2" x 6" x 10'-0"	10
- POSTS & JOISTS	2" x 8" x 14'-0"	2
ROOFING - METAL	240 SQ. FT.	
RIDGE ROLL	10 LINEAL FT.	

**CROSS SECTION**  
SCALE: 1/4" = 1'-0"

**UMBRELLA BUNK**



**SILAGE FEED BUNKS**

CONN. 67 EX. 6012 SHEET 1 OF 1

REVISED '88