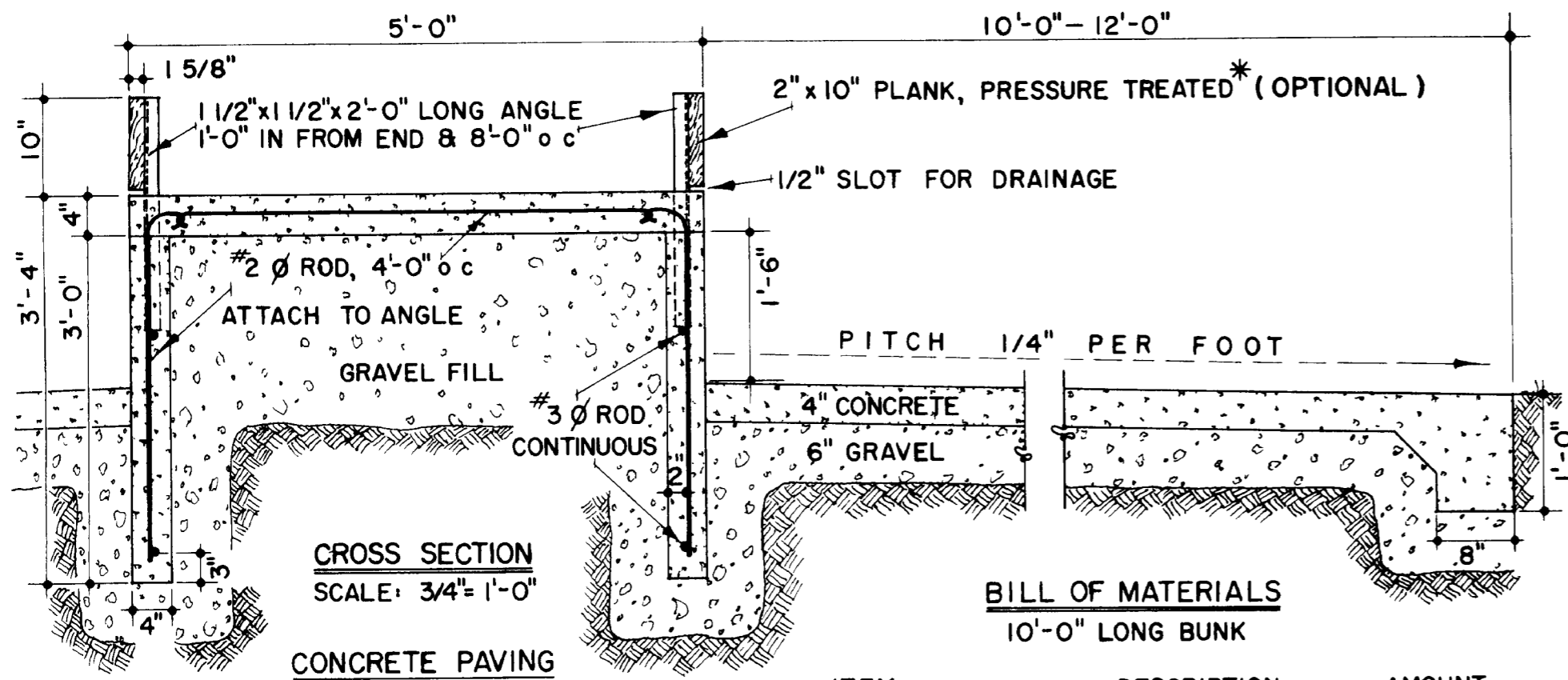


## **Important: Warranty Disclaimer for Plans**

For the convenience of our clientele, this website makes available conceptual plans that can be helpful in planning buildings, facilities, or other structures. They were developed over many years by engineers at Land Grant universities through the former USDA Cooperative Farm Buildings Plan Exchange. *Regardless of the original intent, these are older plans that provide conceptual information only, and are not to be considered or used as construction plans.*

These plans do not claim to represent the most current technology or the most recent construction techniques, standards, or codes. For example, over the years there have been changes in the National Design Specifications for Wood Construction, changes in the strengths and types of building materials, and changes in fasteners, among other things. Those changes, along with variations in climate, building codes, and other factors, make it imperative that professional services be utilized for your specific project. Suggested services include, but are not limited to, structural design, assurance of compliance with codes and regulations, site selection, construction supervision, and provision for utilities, waste management, and access. *These plans do not replace the need for competent design assistance in developing safe, legal, and well-functioning agricultural buildings and systems.*

**Neither the University of Kentucky, the Midwest Plan Service, the United States Department of Agriculture, nor any of the cooperating Land Grant universities, warranty these plans. They are for conceptual use only and are not for use as construction plans.**



CROSS SECTION  
SCALE: 3/4" = 1'-0"

CONCRETE PAVING

- 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

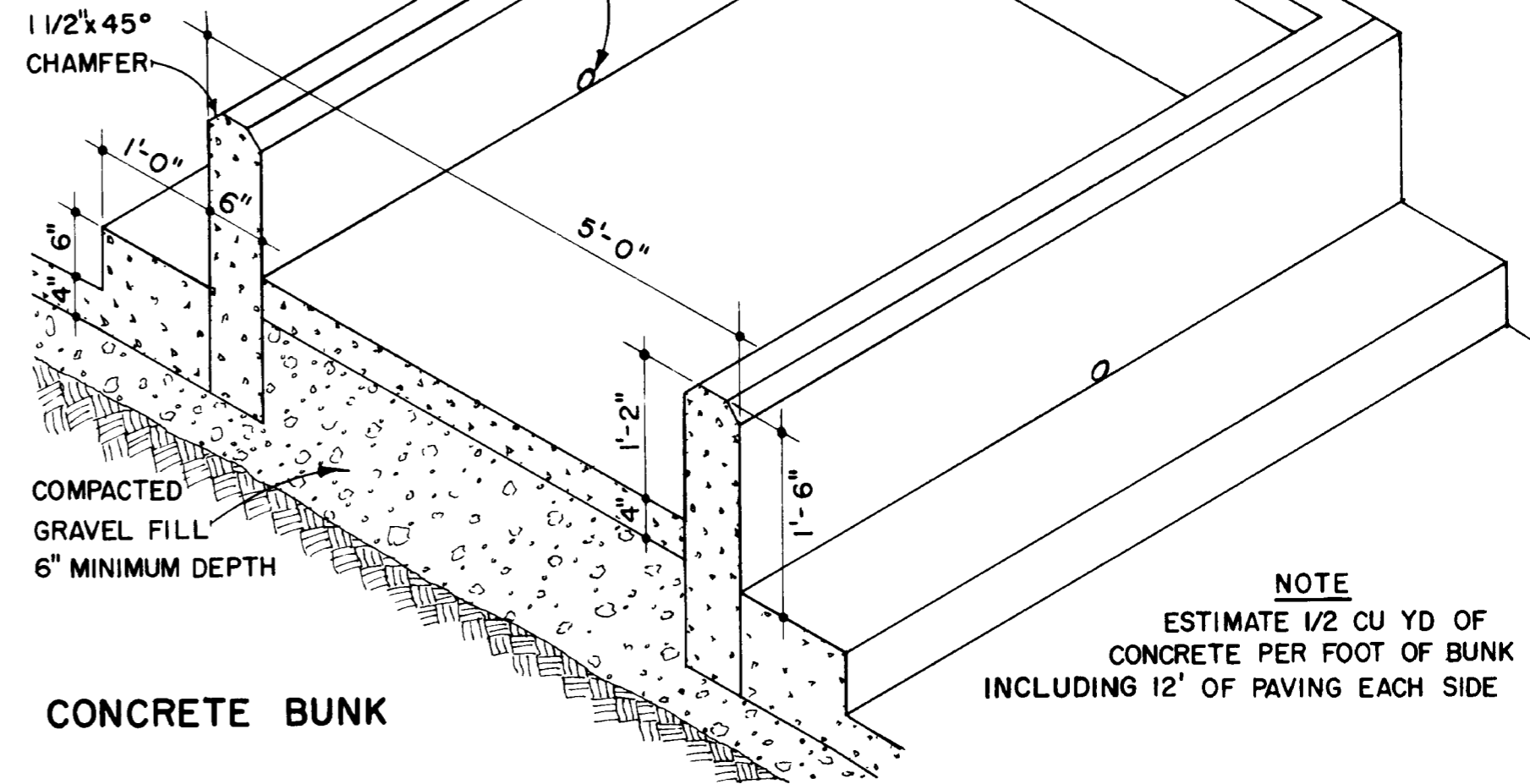
BILL OF MATERIALS  
10'-0" LONG BUNK

ITEM	DESCRIPTION	AMOUNT
CONCRETE	BUNK - SIDES, BOTTOM	14 CU YDS.
CONCRETE PAVING	12' WIDE - BOTH SIDES	375 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

REINFORCED CONCRETE BUNK

IF 8" CONCRETE BLOCKS ARE USED FOR BUNK SIDES, FILL CORES WITH MORTAR

PROVIDE PERIODIC DRAIN HOLES AT BASE OF BUNK & PITCH FLOOR TO DRAIN 1/4" PER FOOT MIN

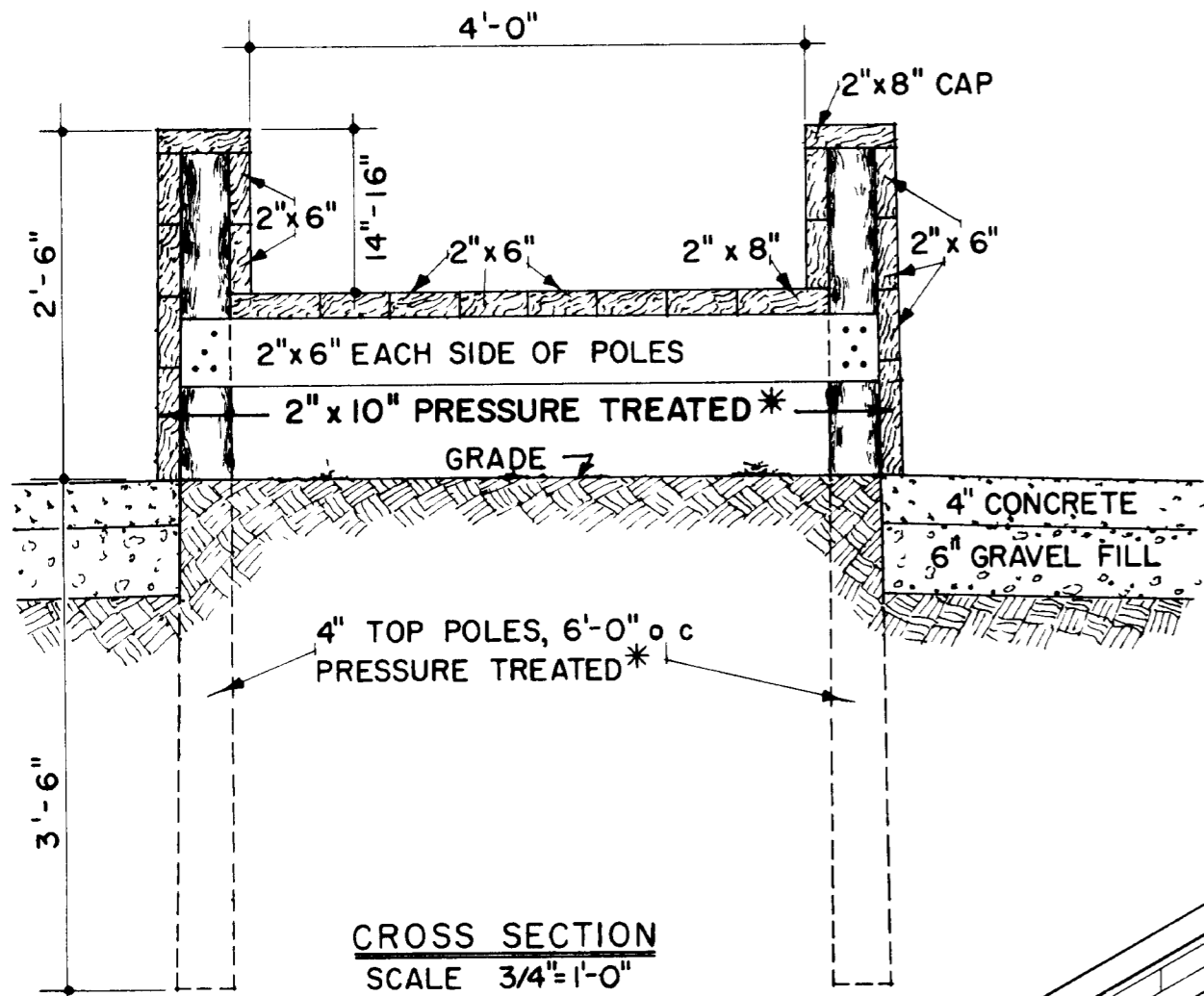


CONCRETE BUNK

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

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" x 8" x 12'-0"	10
SIDES	2" x 6" x 12'-0"	50
	2" x 10" x 12'-0"	10
CAP	2" x 6" 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

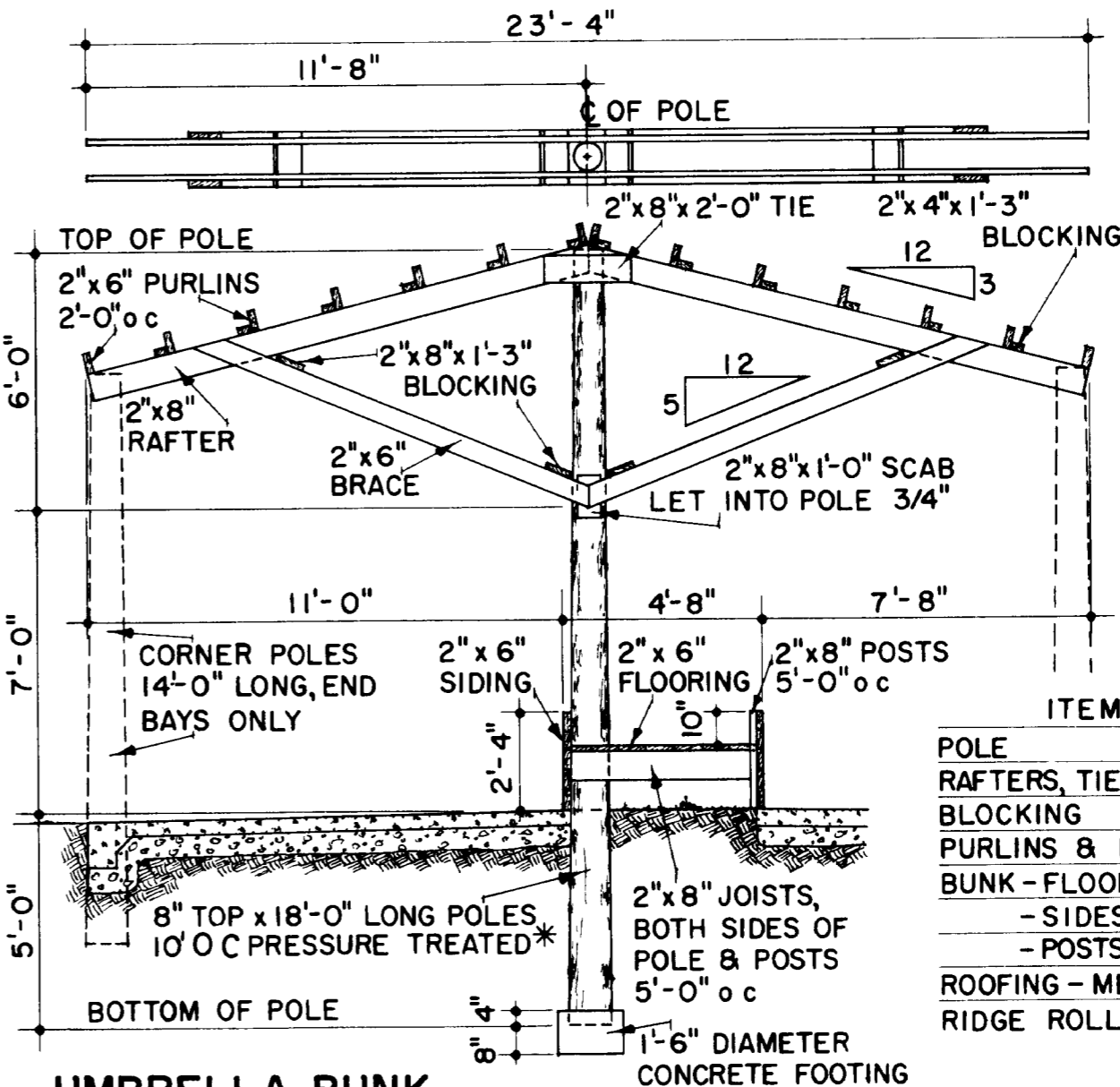


CROSS SECTION  
SCALE 3/4" = 1'-0"

GENERAL VIEW  
(END REMOVED)

\* 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 AWPA STANDARDS

POLE BUNK



UMBRELLA BUNK

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

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 8" 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	

COOPERATIVE EXTENSION WORK IN  
AGRICULTURE AND HOME ECONOMICS  
UNIVERSITY OF AGRICULTURAL ENGINEERING  
COLLEGE OF AGRICULTURE  
UNIVERSITY OF KENTUCKY  
AND  
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

SILAGE FEED BUNKS

CONN '67 EX 6012 SHEET 1 OF 1

7511FWET 1972