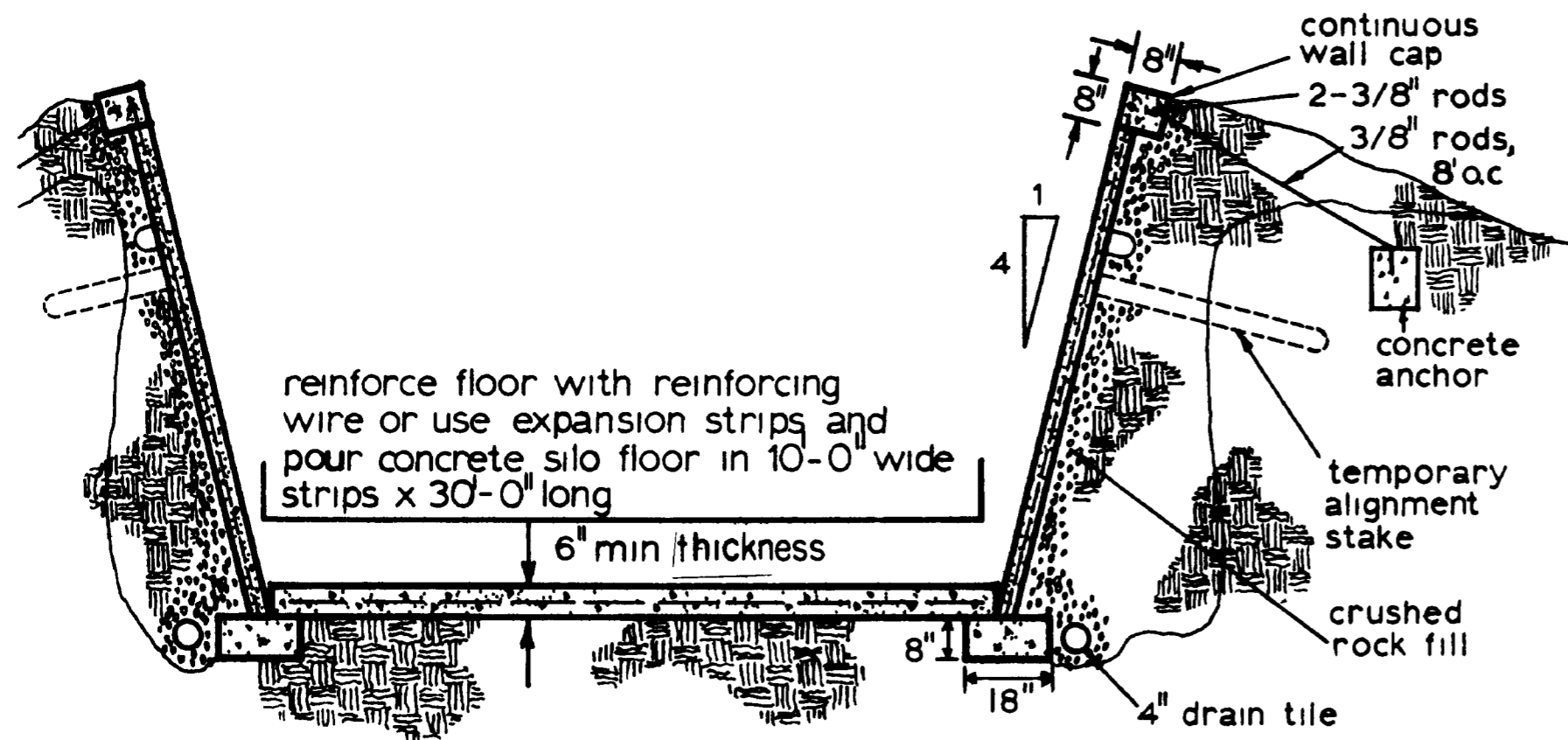


Important: Warranty Disclaimer for Plans

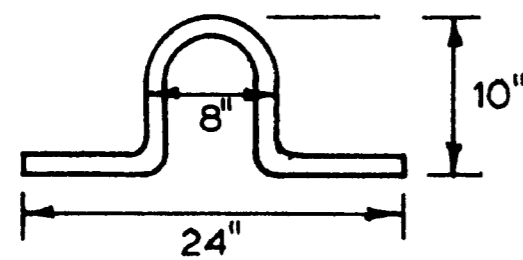
For the convenience of our clientele, this website makes available conceptual plans that can be helpful in planning buildings, facilities, or other structures. They were developed over many years by engineers at Land Grant universities through the former USDA Cooperative Farm Buildings Plan Exchange. *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 3/8"=1'
12' 6" 0' 1' 2' 3'



LOOP FOR LIFTING

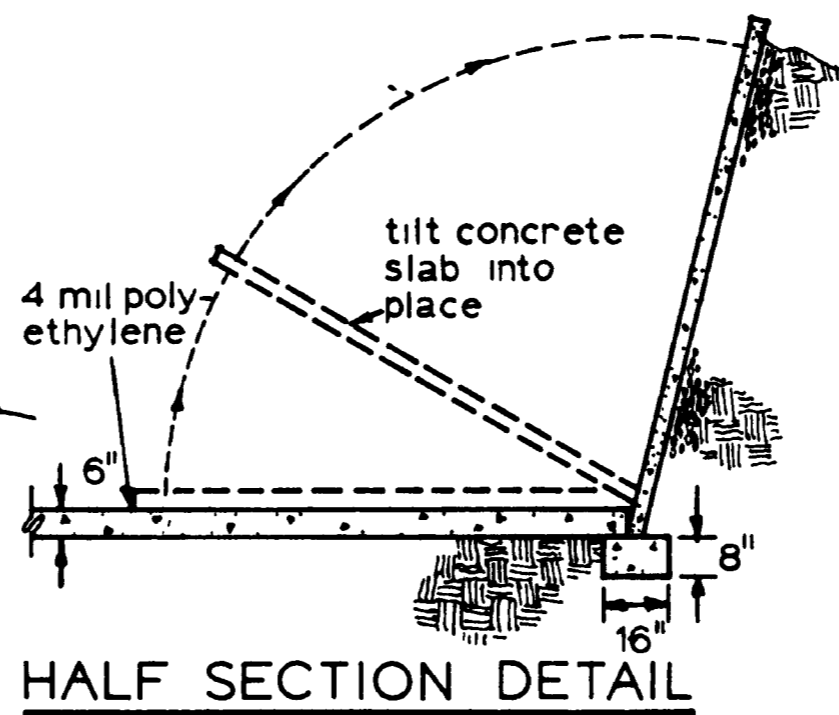
the lifting loop is formed from 3/4" diameter x 3' long steel bars

BUNKER SILO CAPACITIES IN TONS/FOOT OF LENGTH

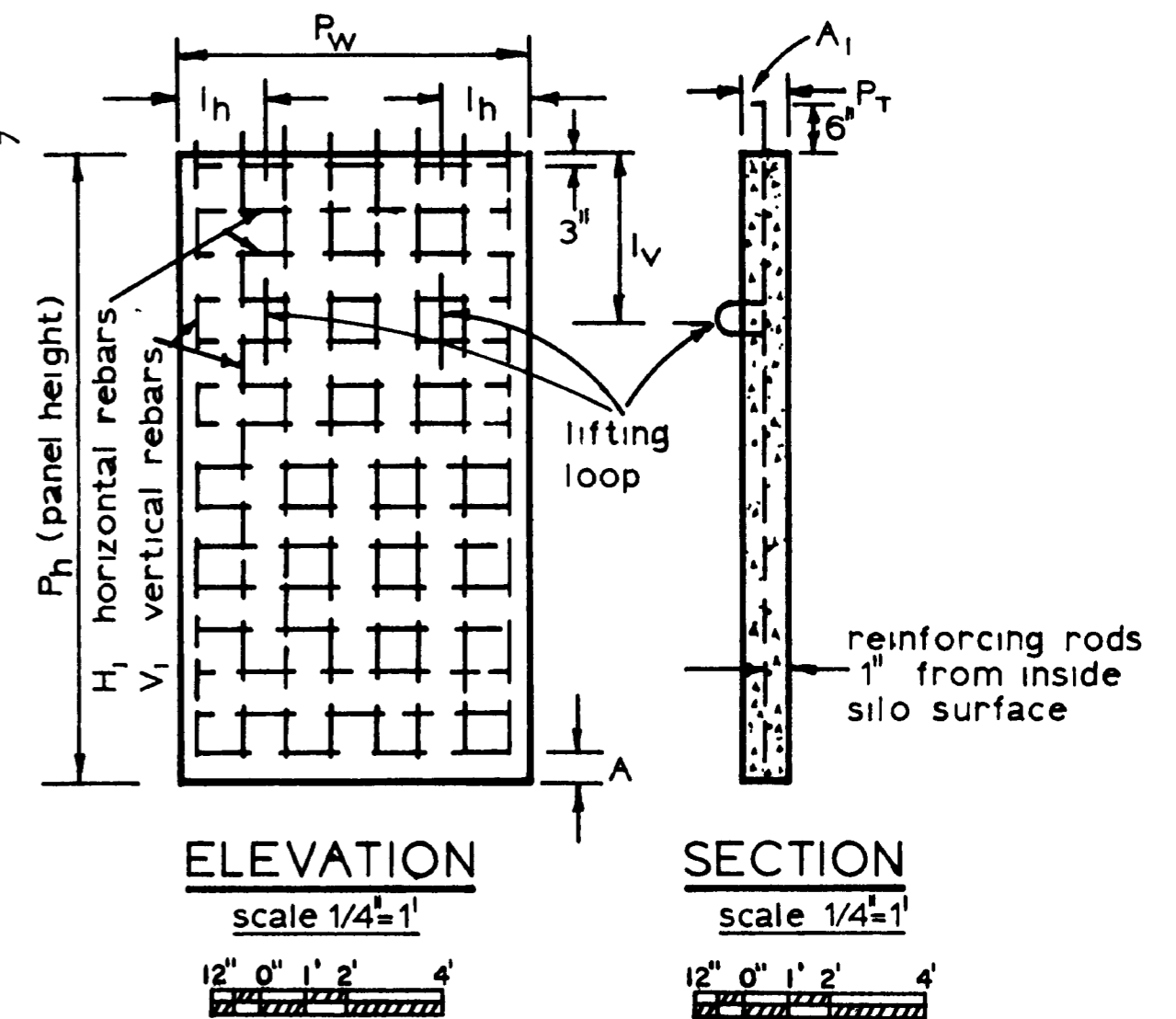
depth	width						
	20'	30'	40'	50'	60'	70'	80'
8'	35	5	65	81	100	113	130
10'	45	62	84	102	122	142	162
12'	55	75	100	123	146	170	200
14'	66	87	115	143	170	200	227
16'	75	100	131	163	200	227	260
18'	88	111	147	183	220	276	291

PANEL HT	PANEL DIMENSION			SCHEDULE		
	P _w	P _T	A	l _h	l _v	WT
8'-0"	7'-11"	3 1/2"	3"	1'-6"	2'-6"	2600
10'-0"	7'-11"	3 1/2"	3"	1'-6"	3'-0"	3200
12'-0"	7'-11"	5 1/2"	3"	1'-6"	3'-6"	6100
14'-0"	7'-11"	5 1/2"	3"	1'-6"	4'-0"	7200

	PANEL REINFORCEMENT				SCHEDULE											
	8 FOOT				10 FOOT				12 FOOT				14 FOOT			
	shape	no	size	lgth	shape	no	size	lgth	shape	no	size	lgth	shape	no	size	lgth
H ₁	—	9	1/2"	7'-6"	—	11	1/2"	7'-6"	—	13	1/2"	7'-6"	—	15	1/2"	7'-6"
V ₁	—	8	1/2"	7'-6"	—	8	1/2"	9'-6"	—	8	1/2"	11'-6"	—	8	1/2"	13'-6"
A ₁	—	2	1/2"	2'-6"	—	2	1/2"	2'-6"	—	2	1/2"	2'-6"	—	2	1/2"	2'-6"



HALF SECTION DETAIL
scale 1/4"=1'
12" 0" 1' 2' 4'

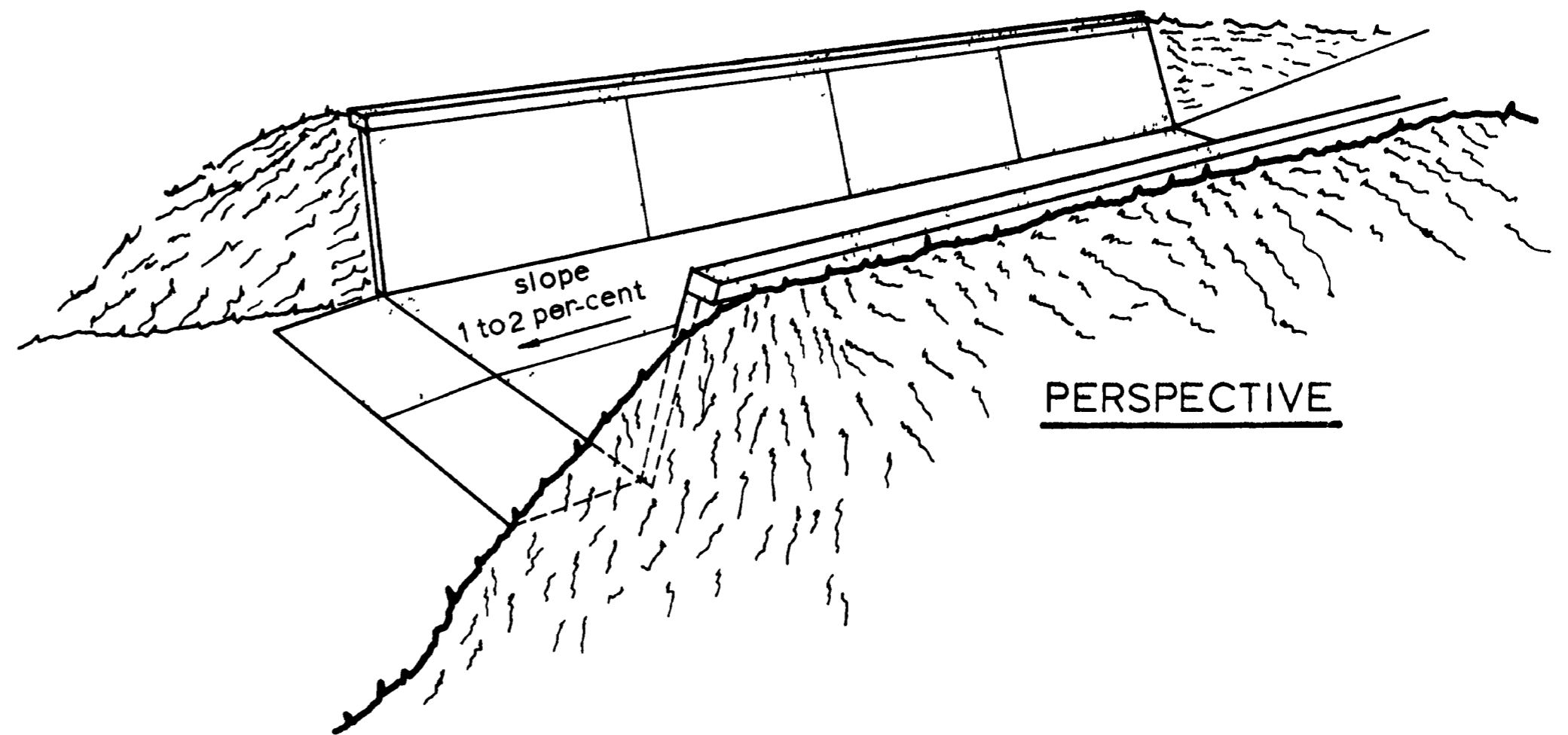


ELEVATION
scale 1/4"=1'
12" 0" 1' 2' 4'

SECTION
scale 1/4"=1'
12" 0" 1' 2' 4'

NOTES

- 1 Capacity is based on 40 pounds per cubic foot
- 2 A daily use rate of 4" of silage is recommended in warm weather to keep silage fresh
- 3 The aggregate should contain 40% sand, 60% gravel, and not more than 6 gallons of water per sack of cement
- 4 Set grade so water will drain away from silo



PERSPECTIVE

Modification of USDA Plan No. 6110

USDA Plan No. 6347

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

AND UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

CONCRETE TRENCH SILO

SC' 81 EX 6347 SHEET 1 OF 1