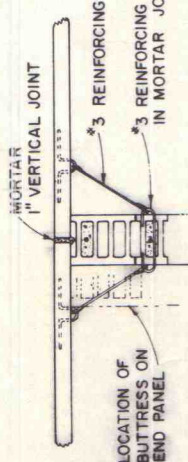


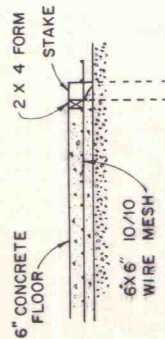
**NOTES:**

1. DIMENSIONS IN PARENTHESIS PERTAIN ONLY TO THE 14 FOOT HIGH PANEL.
2. SPECIFY MIN. 4000 PSI COMPRESSIVE STRENGTH CONCRETE.  
i.e. 6 GALLONS OF WATER PER SACK OF CEMENT, MIN. 7 SACKS OF CEMENT PER CU. YD. CONCRETE. USE 6% AIR ENTRAINMENT.
3. MINIMUM LAP FOR ALL REINFORCING SHALL BE 10"
4. CAST FLOOR IN LENGTHWISE STRIPS 10' WIDE.
5. USE POLYETHYLENE OR TREATED PAPER BOND BREAKER BETWEEN FLOOR & PANELS.
6. USE A VIBRATOR TO ELIMINATE VOIDS IN THE CONCRETE.
7. WET CURE PANELS 5 TO 7 DAYS BEFORE TILTING INTO PLACE.  
APPROXIMATE PANEL WEIGHT (10 FT. - 3460 LBS.)  
(14 FT. - 7630 LBS.)

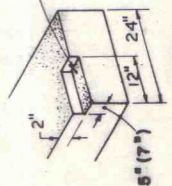
SILO CAPACITY - TONS/FT. OF LENGTH		
DEPTH	DENSITY	AVERAGE SILO WIDTH
10 FT.	40 <sup>3</sup> / <sub>FT<sup>3</sup></sub>	4 6 8 10 12
14 FT.	45 <sup>3</sup> / <sub>FT<sup>3</sup></sub>	6.3 9.4 12.6 15.8 18.9



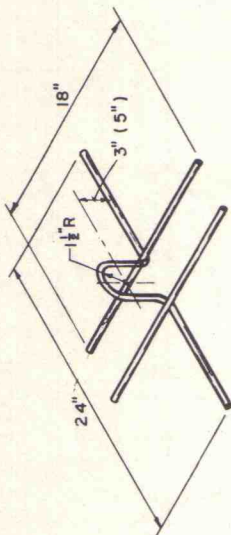
**BUTTRESS-PANEL TIE**



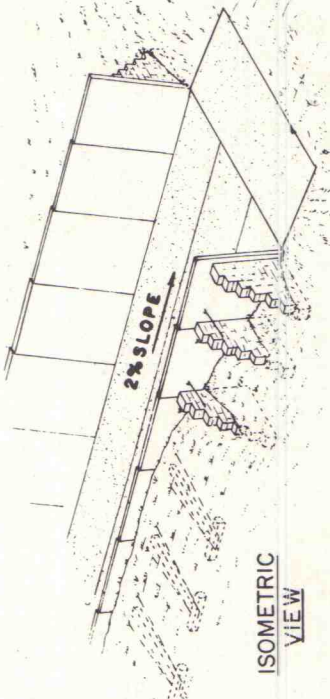
**FORMING DETAIL FOR ADJOINING FLOOR STRIPS**



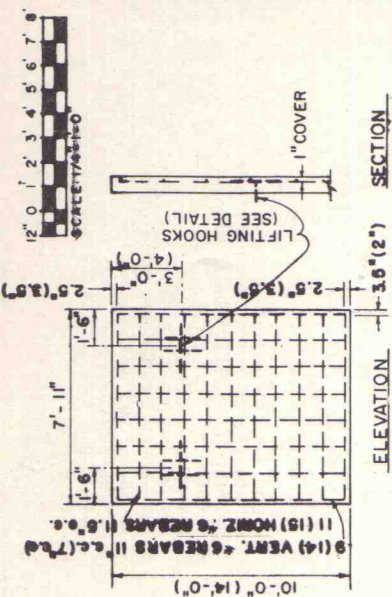
**FOOTING DETAIL**



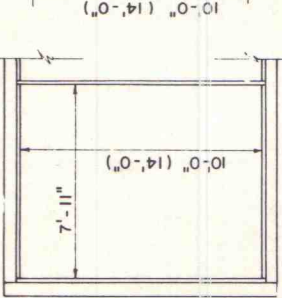
**LIFTING HOOK (\*5 REINFORCING BARS)**



**ISOMETRIC VIEW**



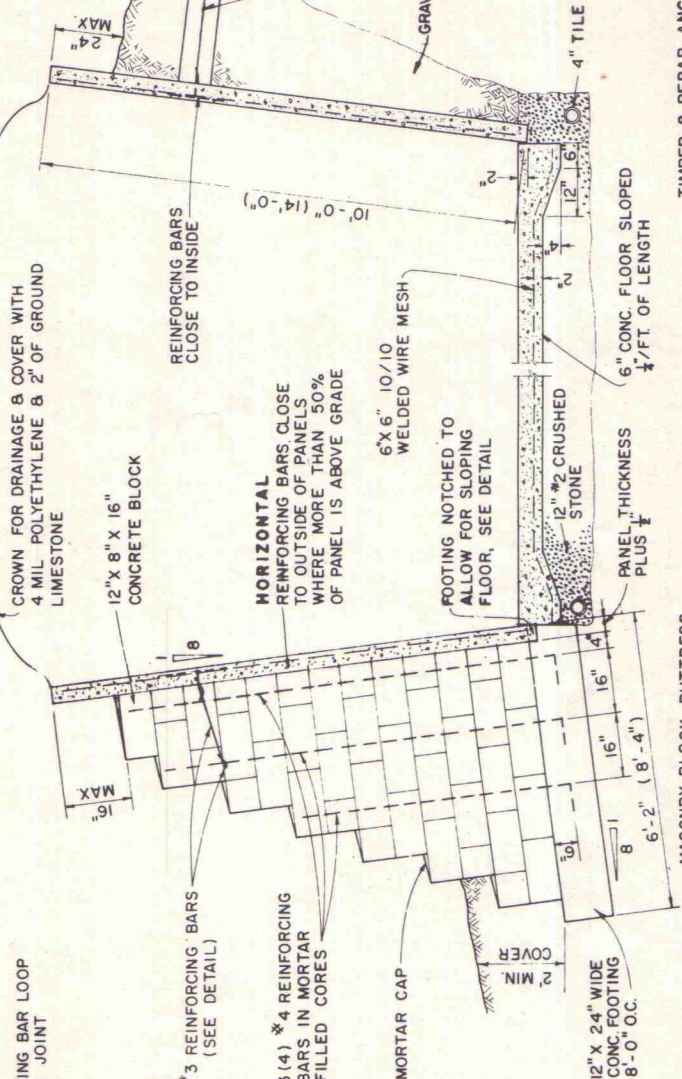
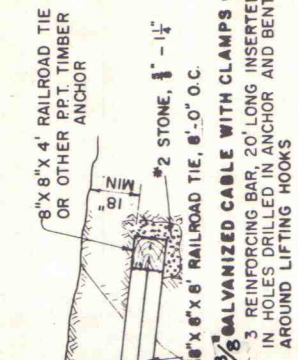
**PANEL DETAIL**



**PLAN**

**SECTION**

**PANEL FORM**



**CROSS SECTION**

**MASONRY BLOCK BUTTRESS ABOVE GRADE & ENDS**

**TIMBER & REBAR ANCHOR BELOW GRADE**

BASED ON: CORNELL UNIV. PLAN NO. 838  
 COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS  
 STATE OF TENNESSEE  
 UNIVERSITY OF TENNESSEE  
 AGRICULTURAL ENGINEERING DEPARTMENT  
 UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

**HORIZONTAL SILO**  
 TILT-UP, BELOW GRADE  
 N.Y. '73 EX. 6175 SHEET 1 OF 1

