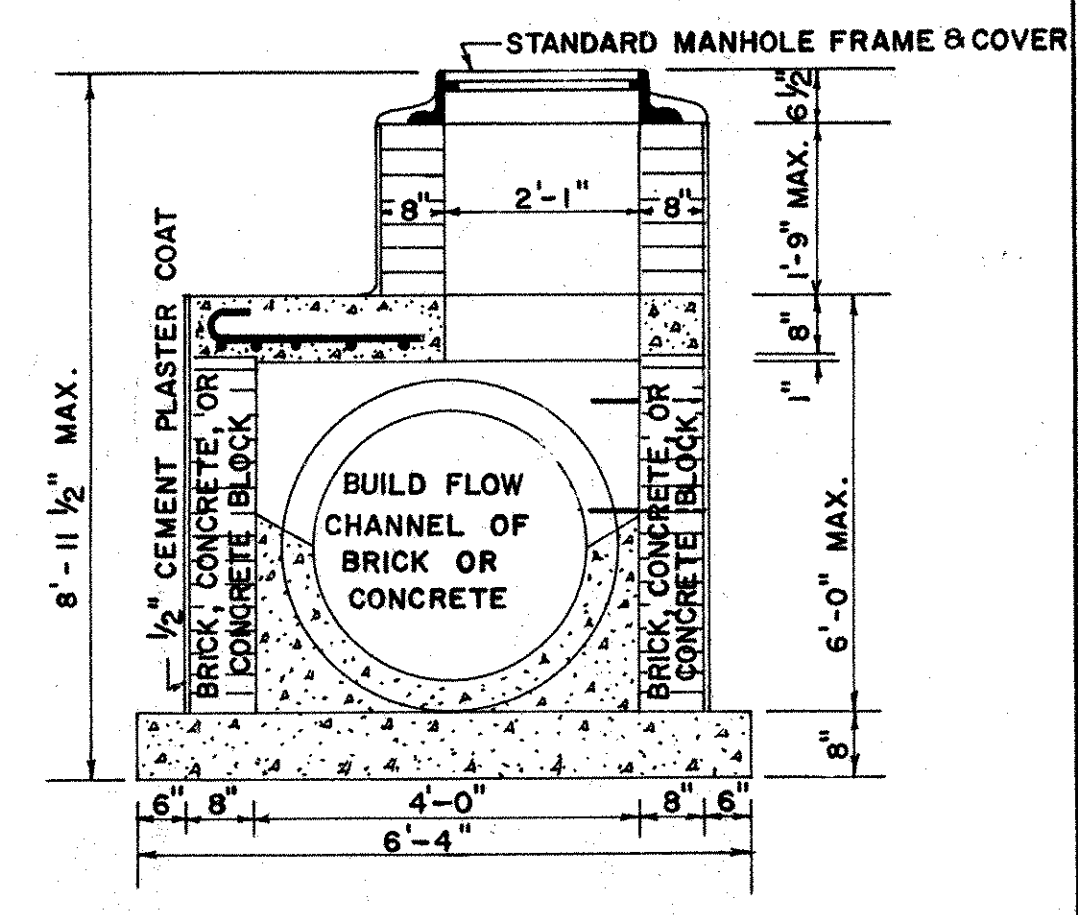
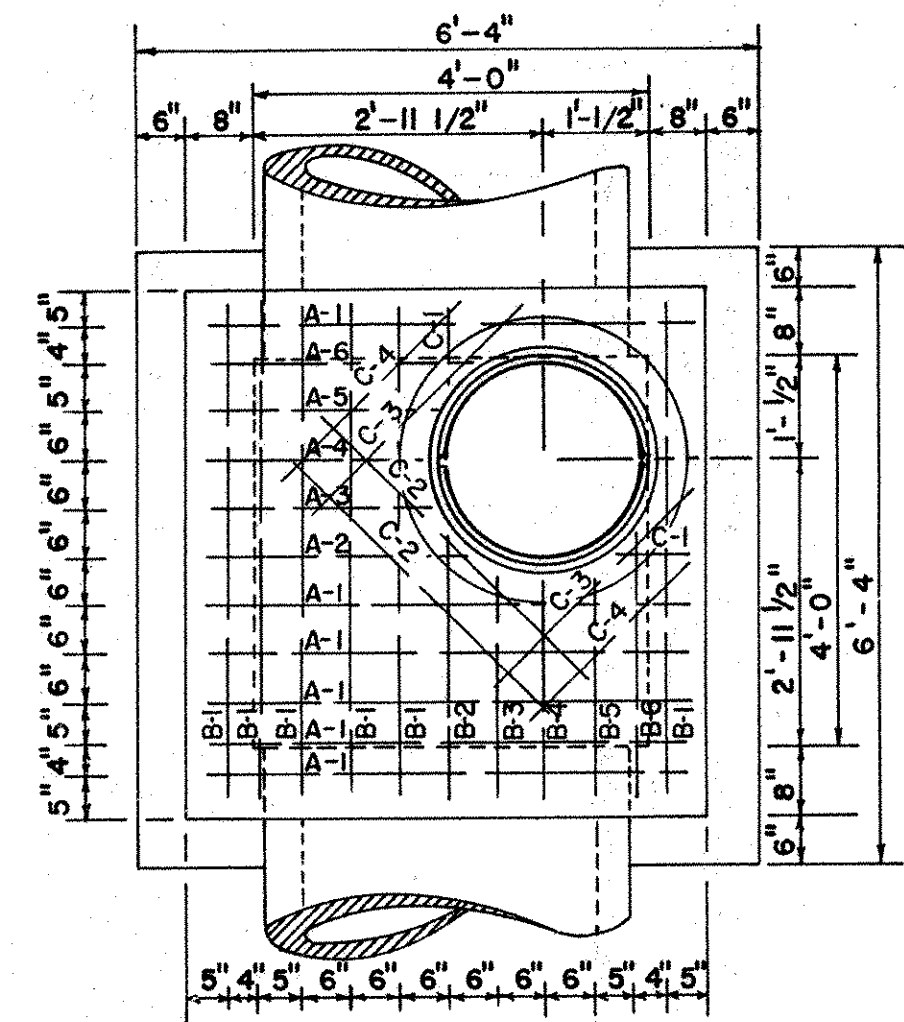


NOTE: SEE STANDARD SHEET D-1 FOR MANHOLE FRAME AND COVER. APPLIES TO ALL MANHOLES ON THIS SHEET.  
STEPS ARE TO BE PLACED IN ALL CATCH BASINS AND MANHOLES OVER 4' DEEP. SEE STANDARD SHEET D-1. COST OF STEPS TO BE INCLUDED IN COST OF MANHOLES.

### A MANHOLE



SECTION



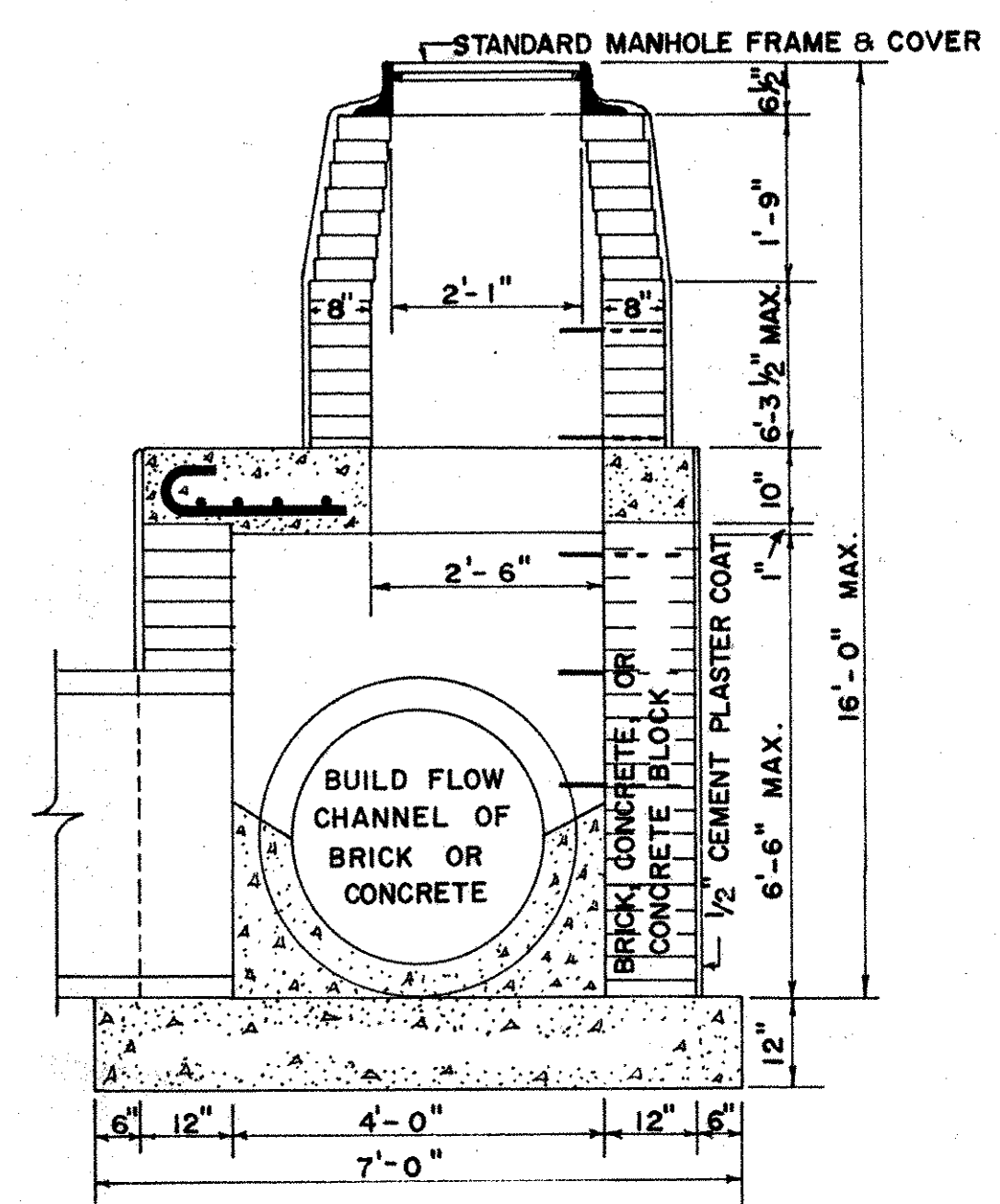
PLAN

#### BILL OF MATERIALS

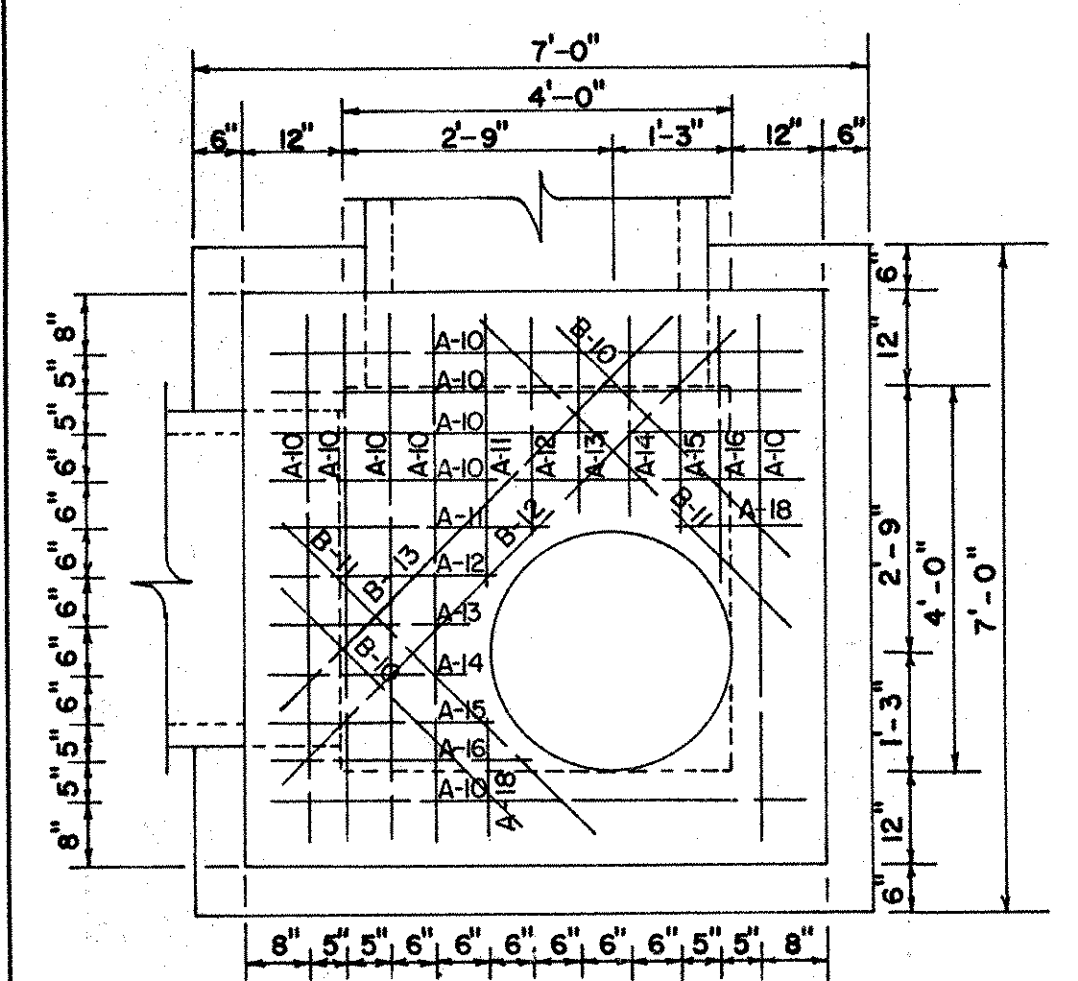
REIN. STEEL	BENT BARS	BENDING DIAGRAM
NO.	SIZE L'GTH. MARK	(ALL DIMENSIONS ARE OUT-OUT)
6	5/8" φ 6'-2" A-1	
6	5/8" φ 6'-2" B-1	
1	5/8" φ 3'-5" A-2	
1	5/8" φ 3'-0" A-3	
1	5/8" φ 2'-11" A-4	
1	5/8" φ 3'-0" A-5	
1	5/8" φ 3'-5" A-6	
1	5/8" φ 3'-5" B-2	
1	5/8" φ 3'-0" B-3	
1	5/8" φ 2'-11" B-4	
1	5/8" φ 3'-0" B-5	
1	5/8" φ 3'-0" B-6	
1	5/8" φ 3'-5" B-6	
STRAIGHT BARS		
NO.	SIZE LENGTH MARK	
2	5/8" φ 0'-10" C-1	
2	5/8" φ 3'-10" C-2	
2	5/8" φ 3'-0" C-3	
2	5/8" φ 2'-4" C-4	

NOTE: ALL REINFORCING STEEL TO BE INCLUDED IN UNIT PRICE BID FOR MANHOLE.

### B MANHOLE



SECTION



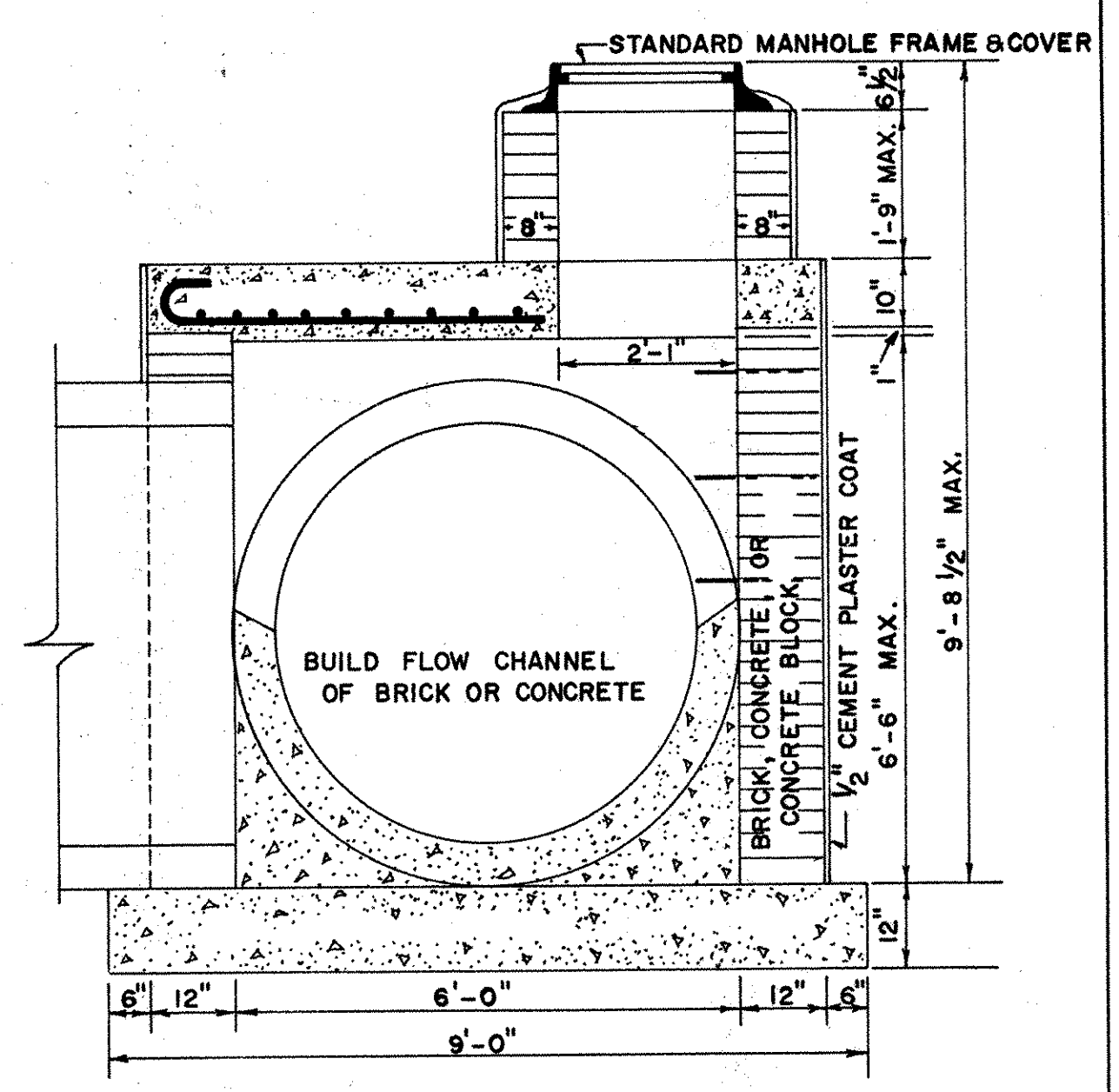
PLAN

#### BILL OF MATERIALS

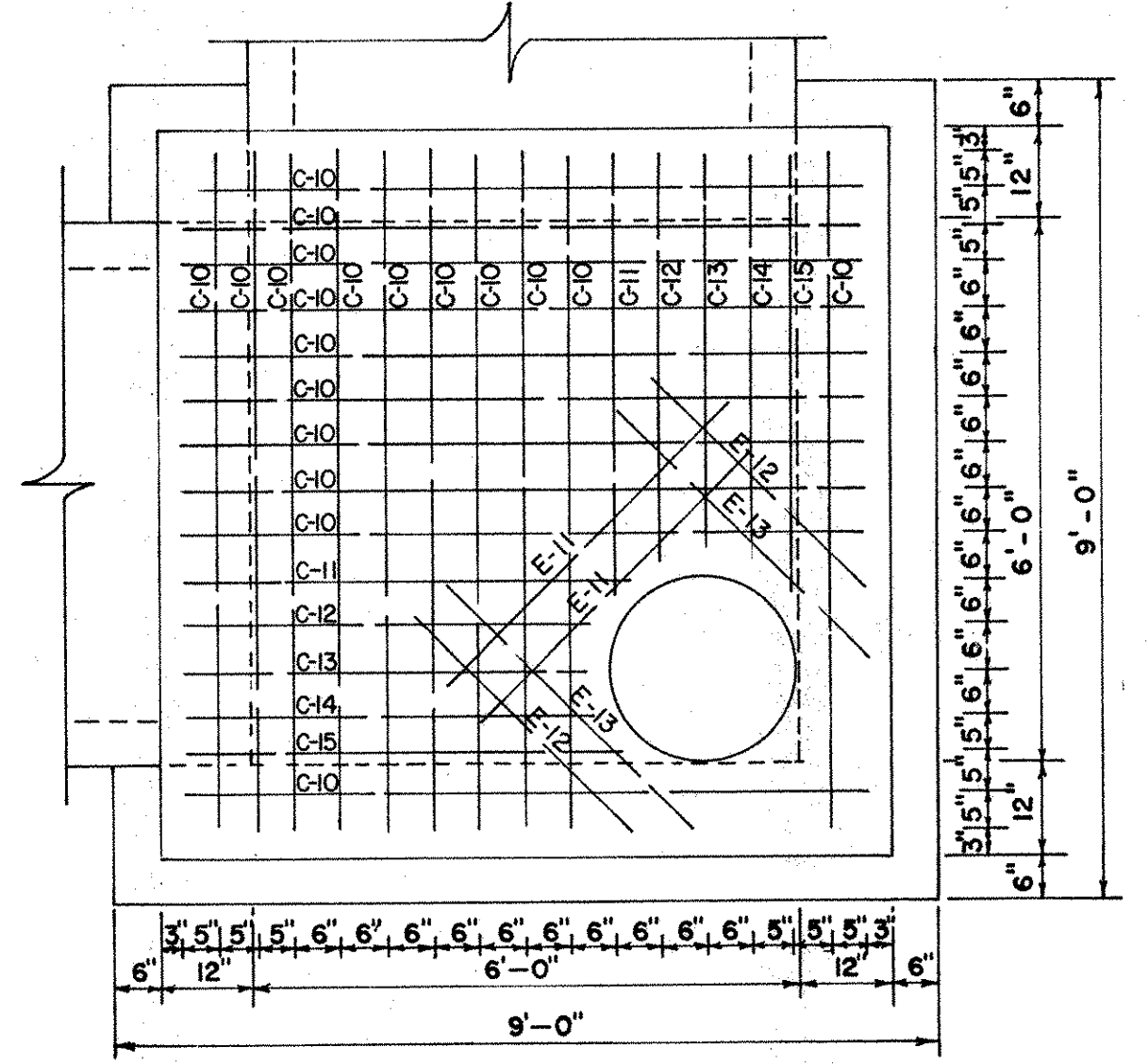
REIN. STEEL	BENT BARS	BENDING DIAGRAM
NO.	SIZE L'GTH. MARK	(ALL DIMENSIONS ARE OUT-OUT)
10	3/4" φ 6'-10" A-10	
2	3/4" φ 3'-6" A-11	
2	3/4" φ 3'-0" A-12	
2	3/4" φ 2'-9" A-13	
2	3/4" φ 2'-9" A-14	
2	3/4" φ 3'-0" A-15	
2	3/4" φ 3'-6" A-16	
2	3/4" φ 3'-6" A-16	
STRAIGHT BARS		
NO.	SIZE LENGTH MARK	
2	3/4" φ 1'-4" A-18	
2	3/4" φ 3'-6" B-10	
2	3/4" φ 4'-6" B-11	
1	3/4" φ 6'-9" B-12	
1	3/4" φ 5'-9" B-13	
2	3/4" φ 4'-4" E-11	
2	3/4" φ 3'-5" E-12	
2	3/4" φ 3'-10" E-13	

NOTE: ALL REINFORCING STEEL TO BE INCLUDED IN UNIT PRICE BID FOR MANHOLE.

### C MANHOLE



SECTION



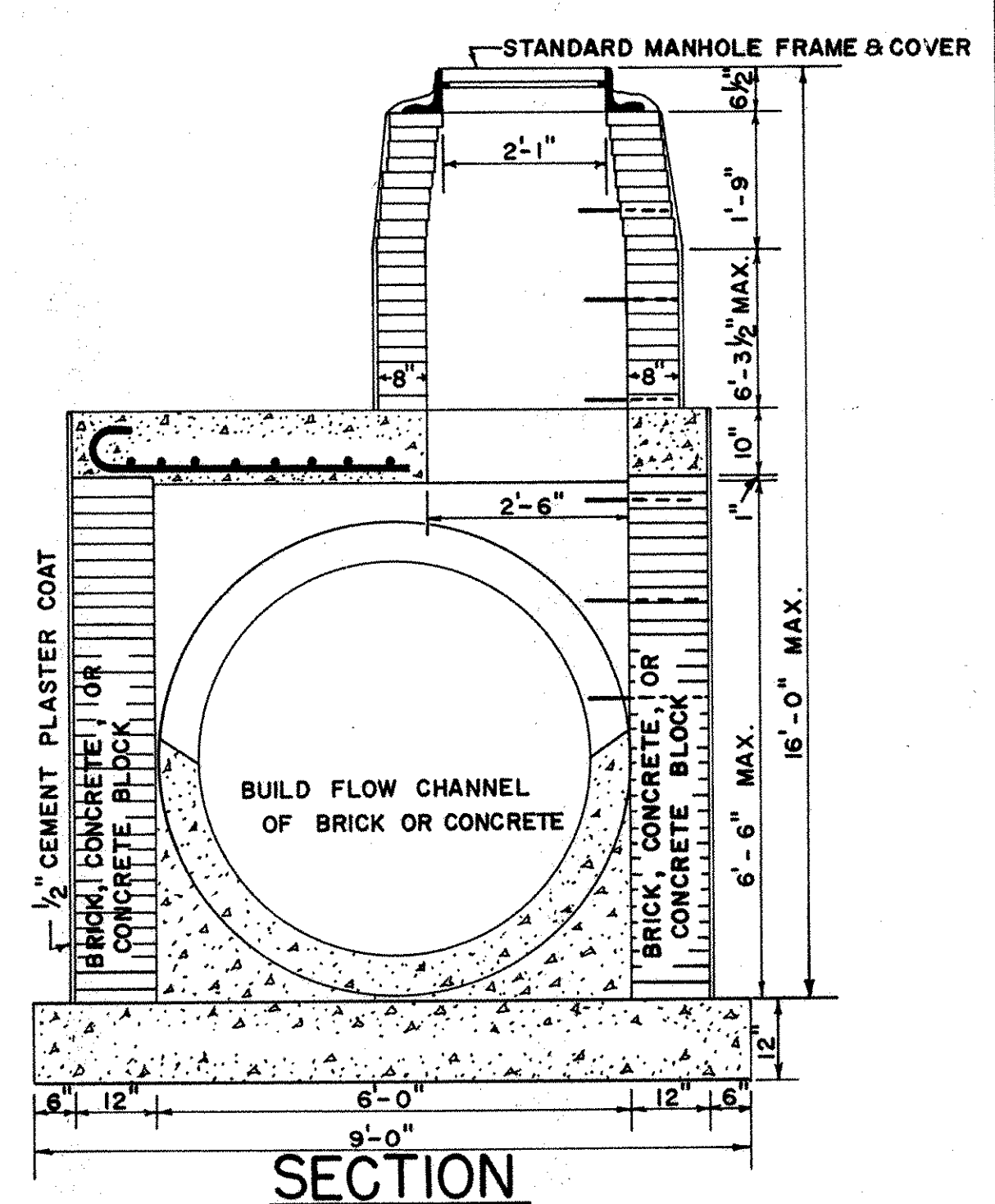
PLAN

#### BILL OF MATERIALS

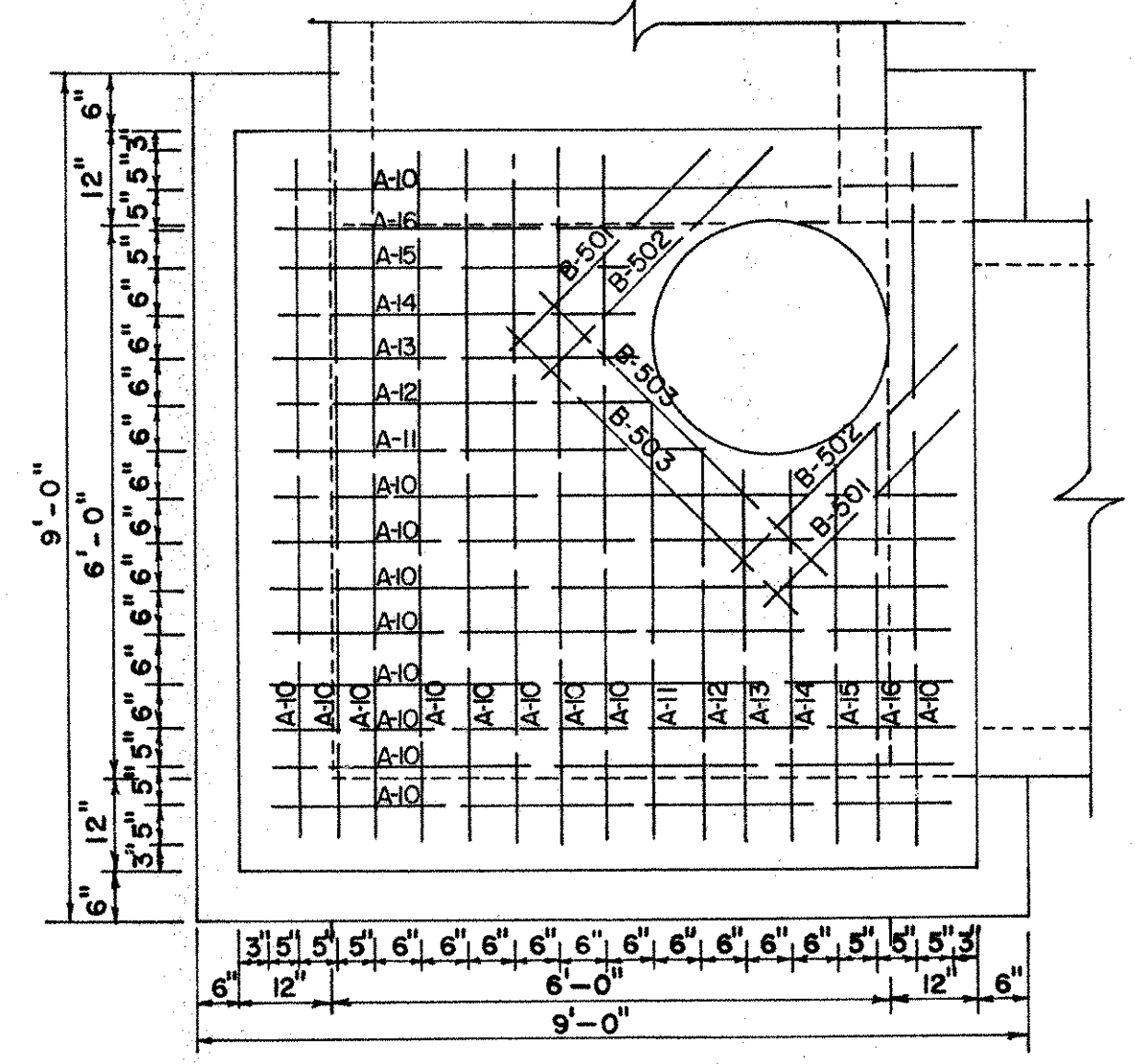
REIN. STEEL	BENT BARS	BENDING DIAGRAM
NO.	SIZE L'GTH. MARK	(ALL DIMENSIONS ARE OUT-OUT)
20	3/4" φ 8'-10" C-10	
2	3/4" φ 5'-8" C-11	
2	3/4" φ 5'-3" C-12	
2	3/4" φ 5'-2" C-13	
2	3/4" φ 5'-3" C-14	
2	3/4" φ 5'-8" C-15	
2	3/4" φ 5'-8" C-15	
2	3/4" φ 5'-8" C-15	
STRAIGHT BARS		
NO.	SIZE LENGTH MARK	
2	3/4" φ 4'-4" E-11	
2	3/4" φ 3'-5" E-12	
2	3/4" φ 3'-10" E-13	

NOTE: ALL REINFORCING STEEL TO BE INCLUDED IN UNIT PRICE BID FOR MANHOLE.

### D MANHOLE



SECTION



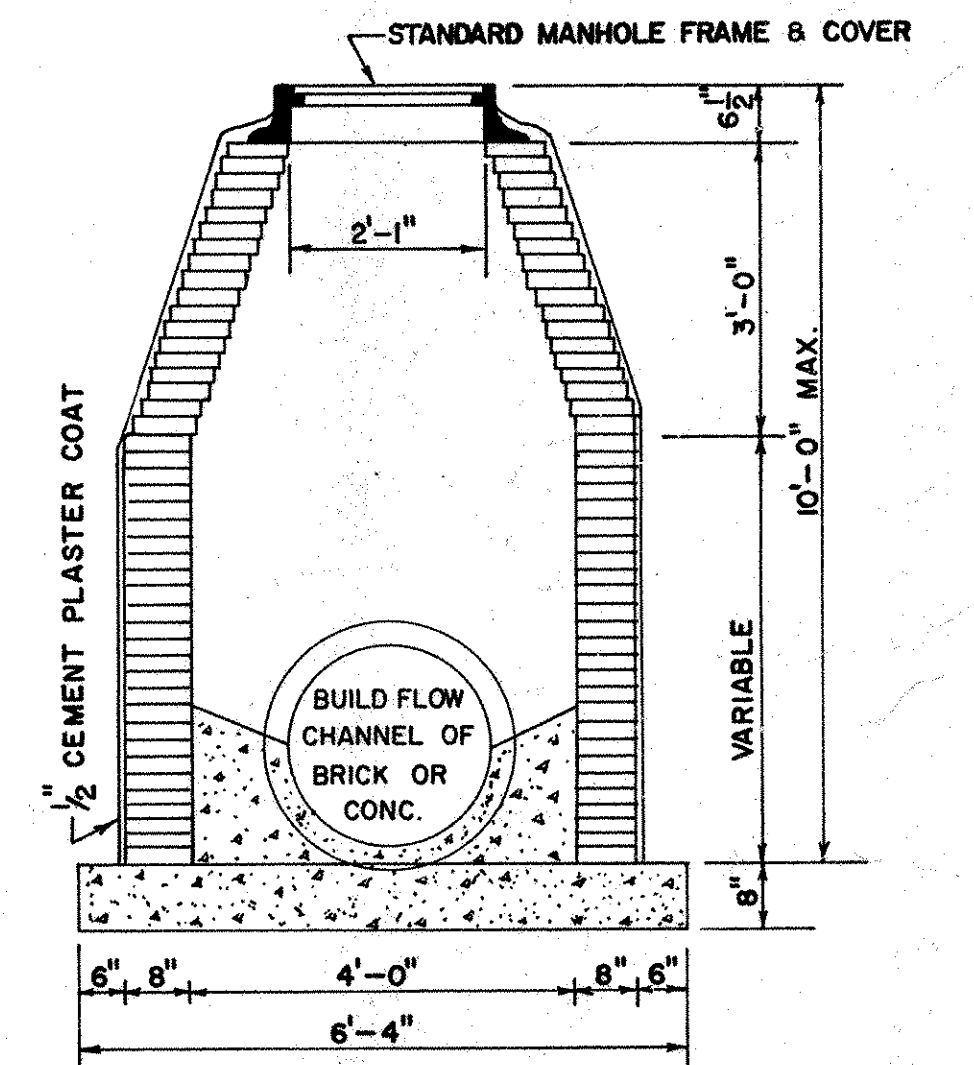
PLAN

#### BILL OF MATERIALS

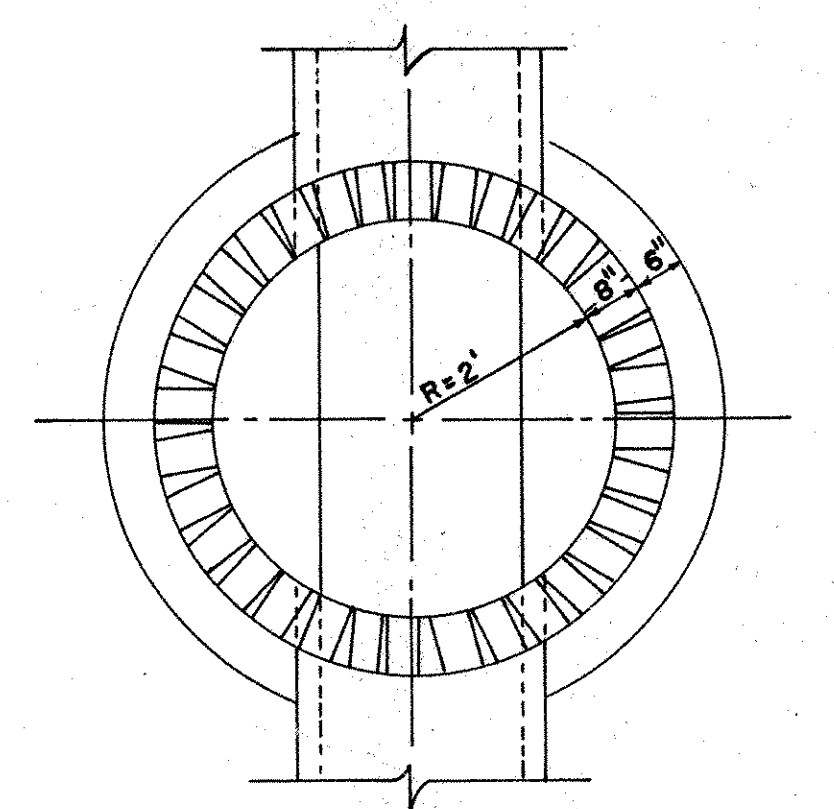
REIN. STEEL	BENT BARS	BENDING DIAGRAM
NO.	SIZE L'GTH. MARK	(ALL DIMENSIONS ARE OUT-OUT)
18	3/4" φ 8'-10" A-10	
2	3/4" φ 5'-6" A-11	
2	3/4" φ 5'-0" A-12	
2	3/4" φ 4'-9" A-13	
2	3/4" φ 4'-9" A-14	
2	3/4" φ 5'-0" A-15	
2	3/4" φ 5'-6" A-16	
2	3/4" φ 5'-6" A-16	
STRAIGHT BARS		
NO.	SIZE LENGTH MARK	
2	3/4" φ 3'-0" B-501	
2	3/4" φ 3'-6" B-502	
2	3/4" φ 4'-6" B-503	
2	3/4" φ 4'-6" B-503	

NOTE: ALL REINFORCING STEEL TO BE INCLUDED IN UNIT PRICE BID FOR MANHOLE.

### STANDARD MANHOLE



SECTION



PLAN

SCALE FOR ALL MANHOLES

