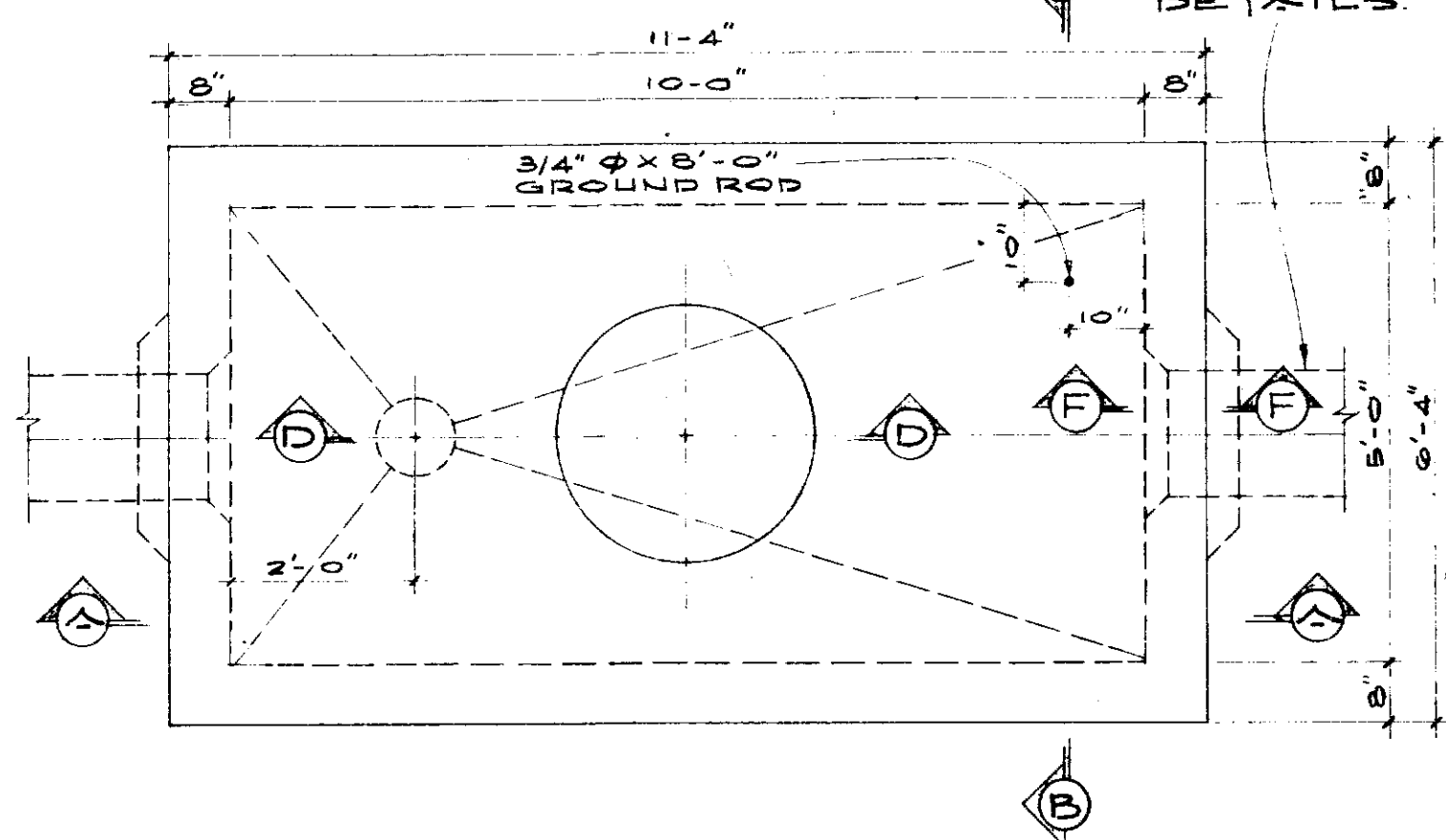
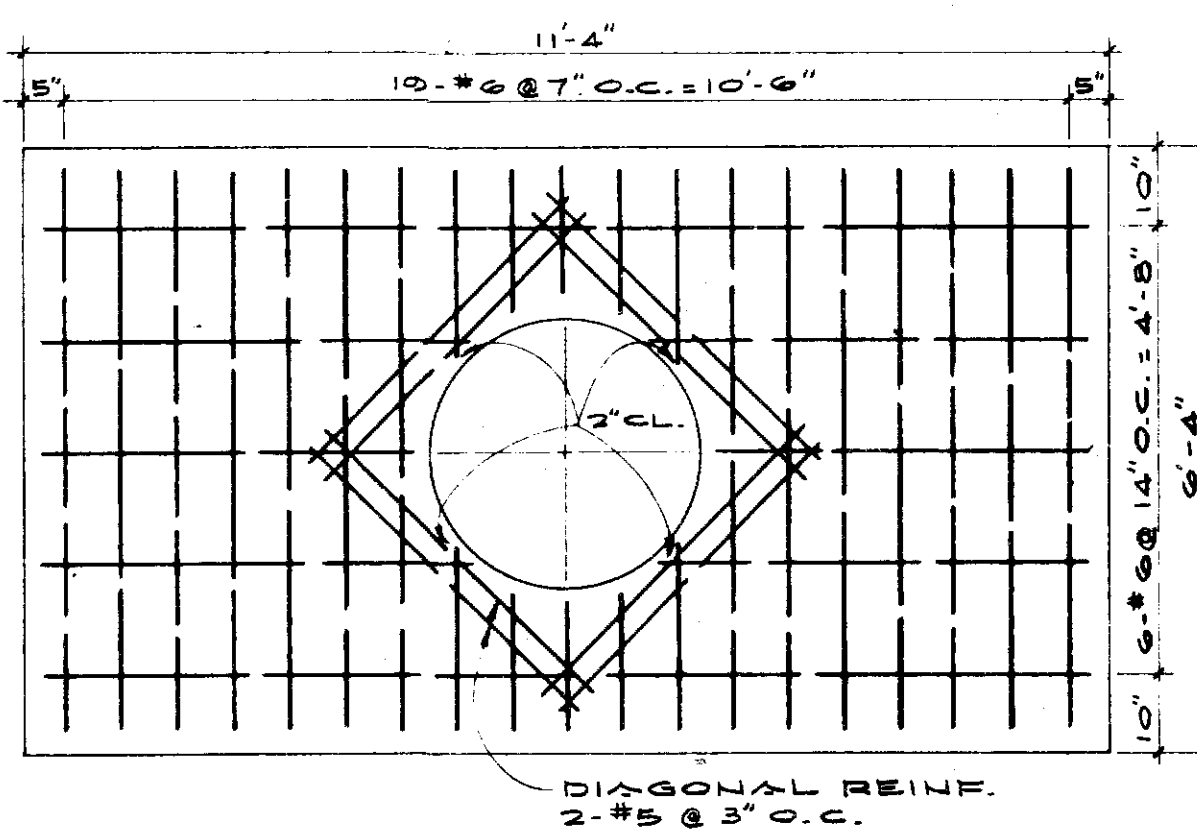


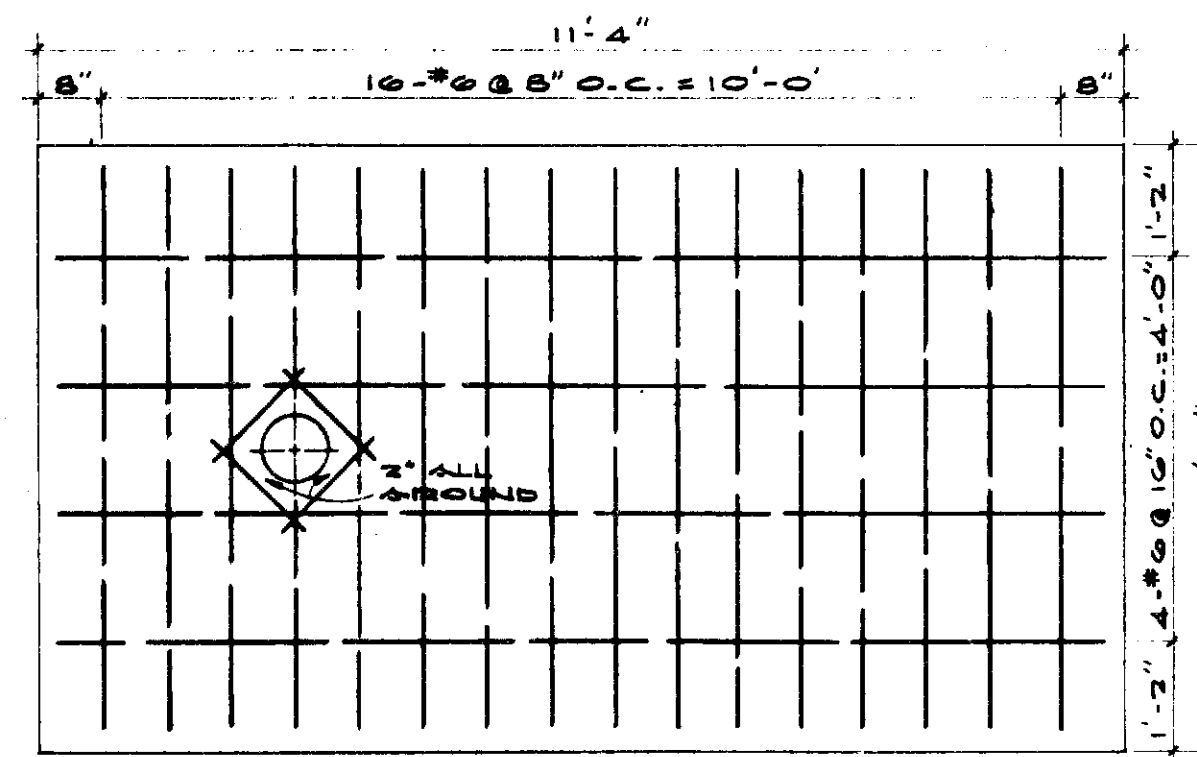
NOTE:
SEE STANDARD DUCT
DETAILS FOR ALL DUCT
DETAILS. SEE M.H.
DETAILS FOR ALL M.H.
DETAILS.



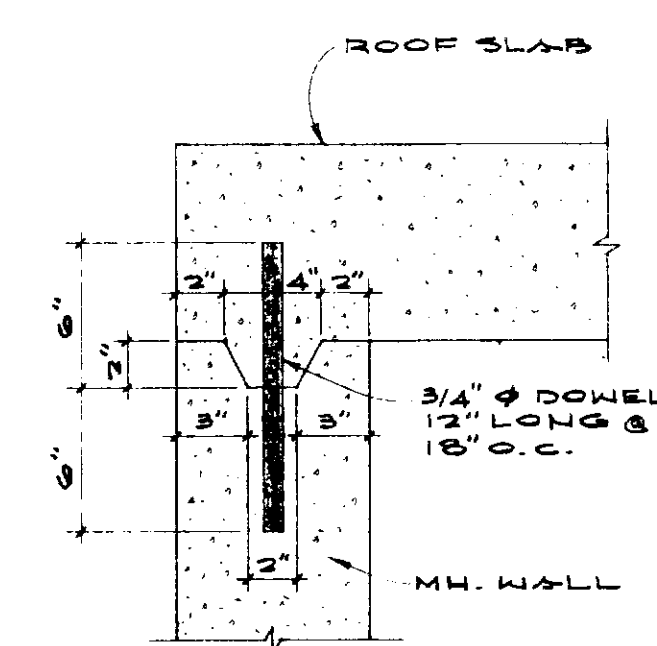
PLAN-MH. TYPE "A-3" SERIES
FOR ROADWAY & SIDEWALK AREAS
SCALE: 1/2" = 1'-0"



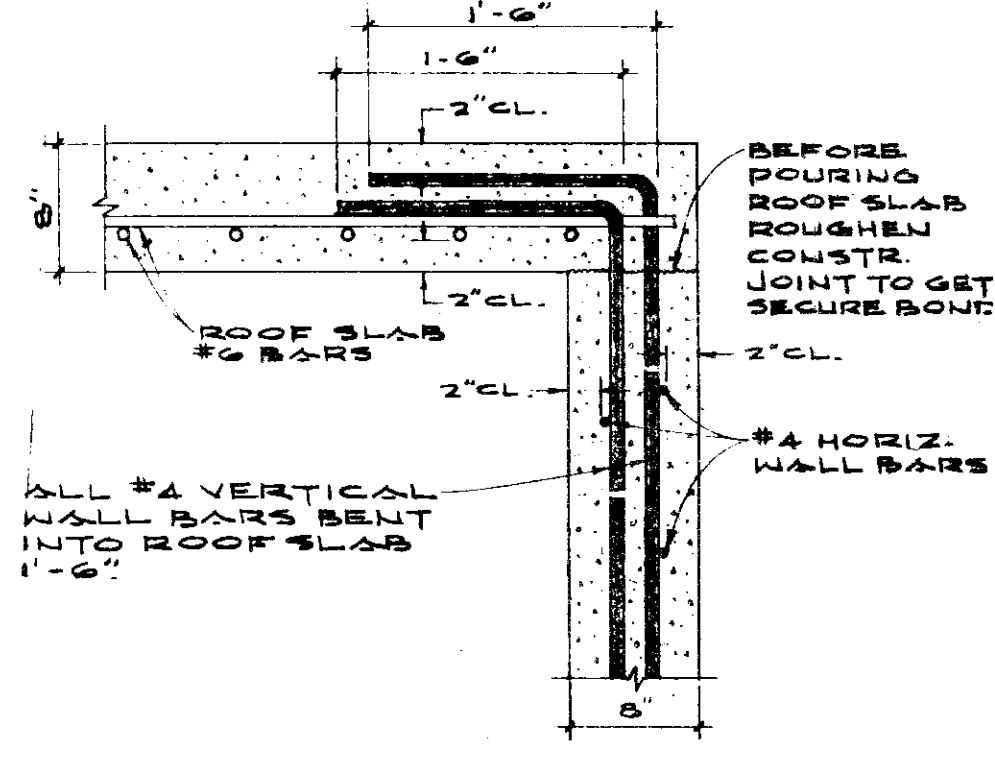
ROOF SLAB REINF. PLAN
SCALE: 1/2" = 1'-0"



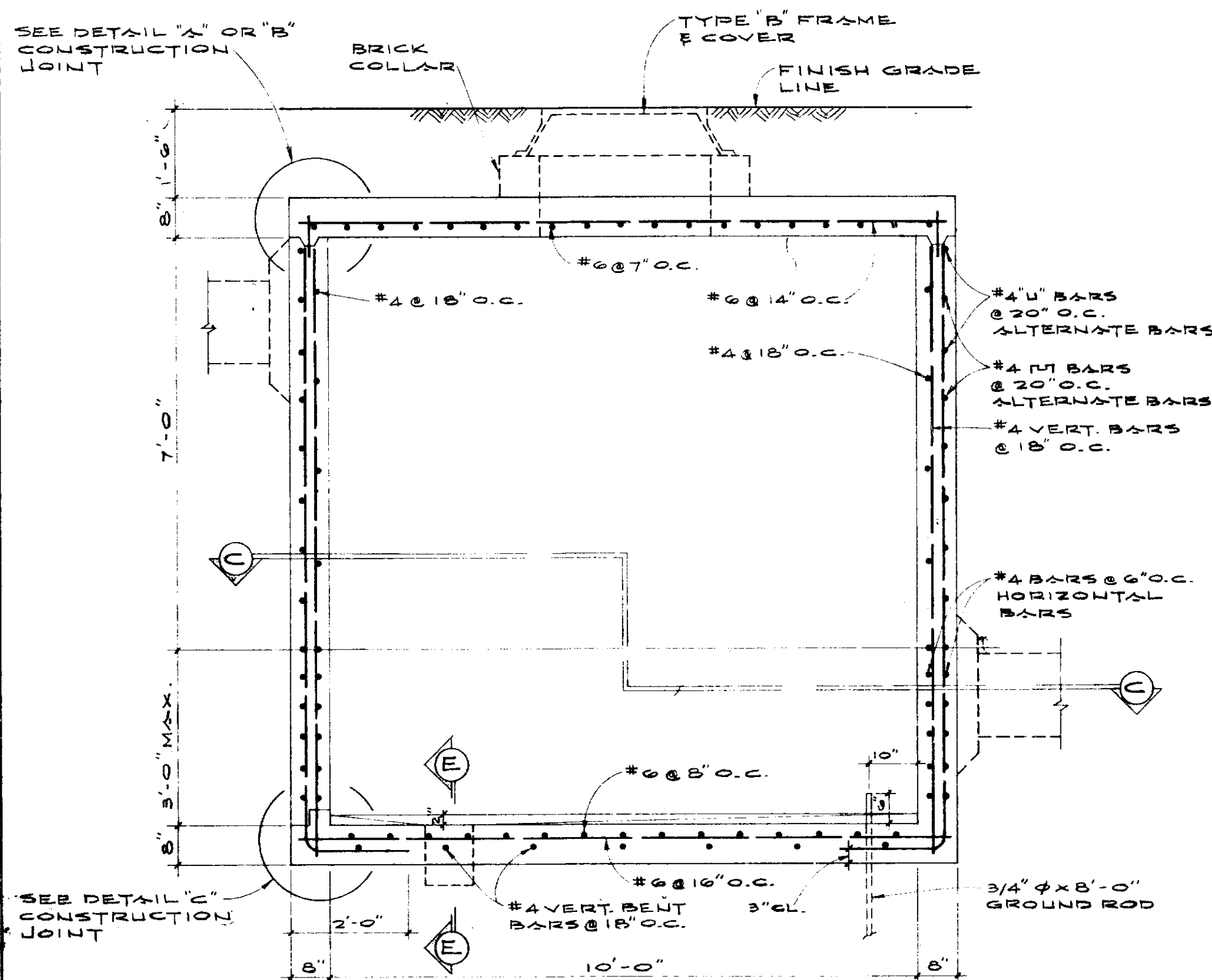
FLOOR SLAB REINF. PLAN
SCALE: 1/2" = 1'-0"



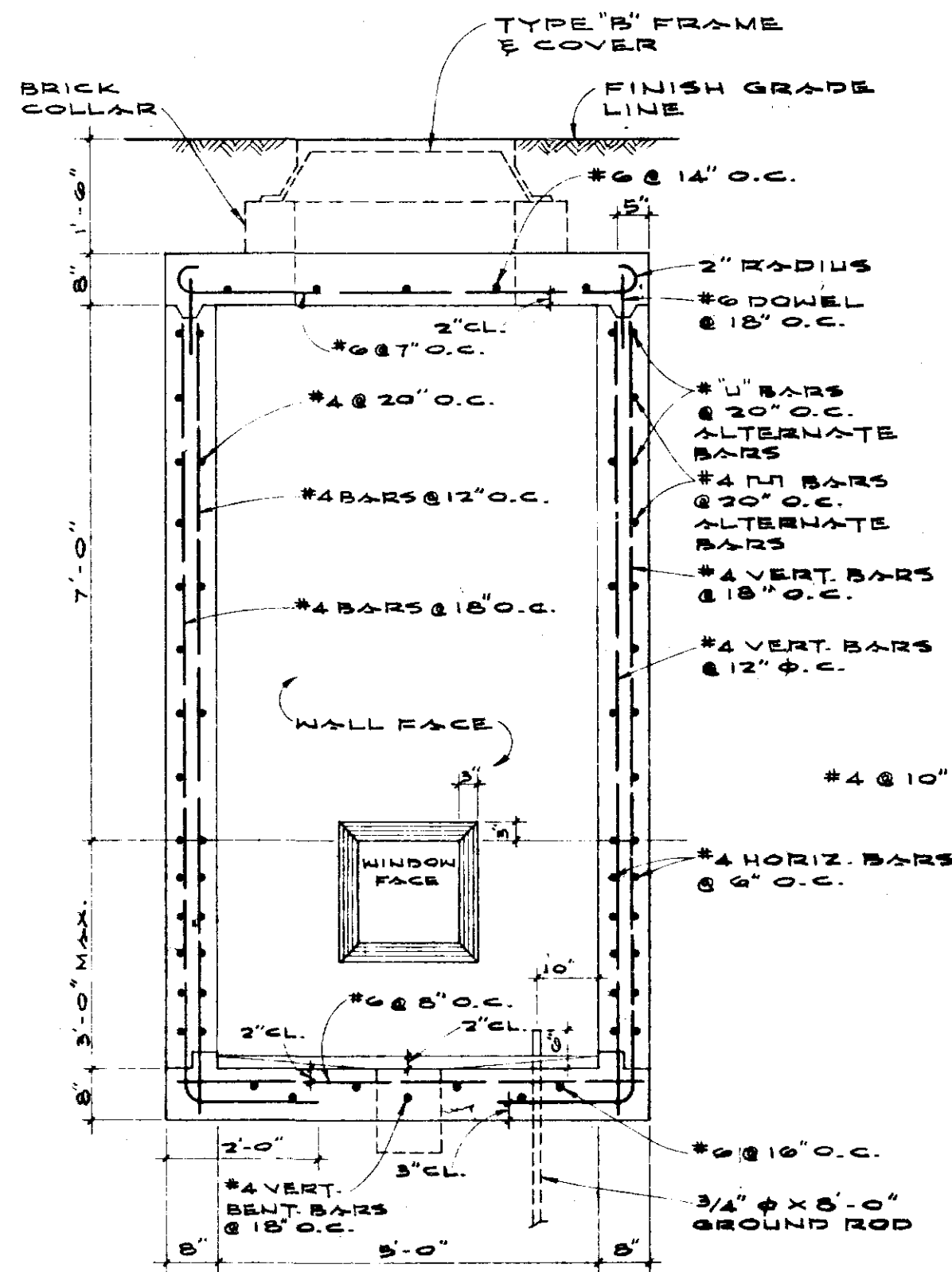
DETAIL "A"
TOP CONSTR. JOINT
SCALE: 1/2" = 1'-0"



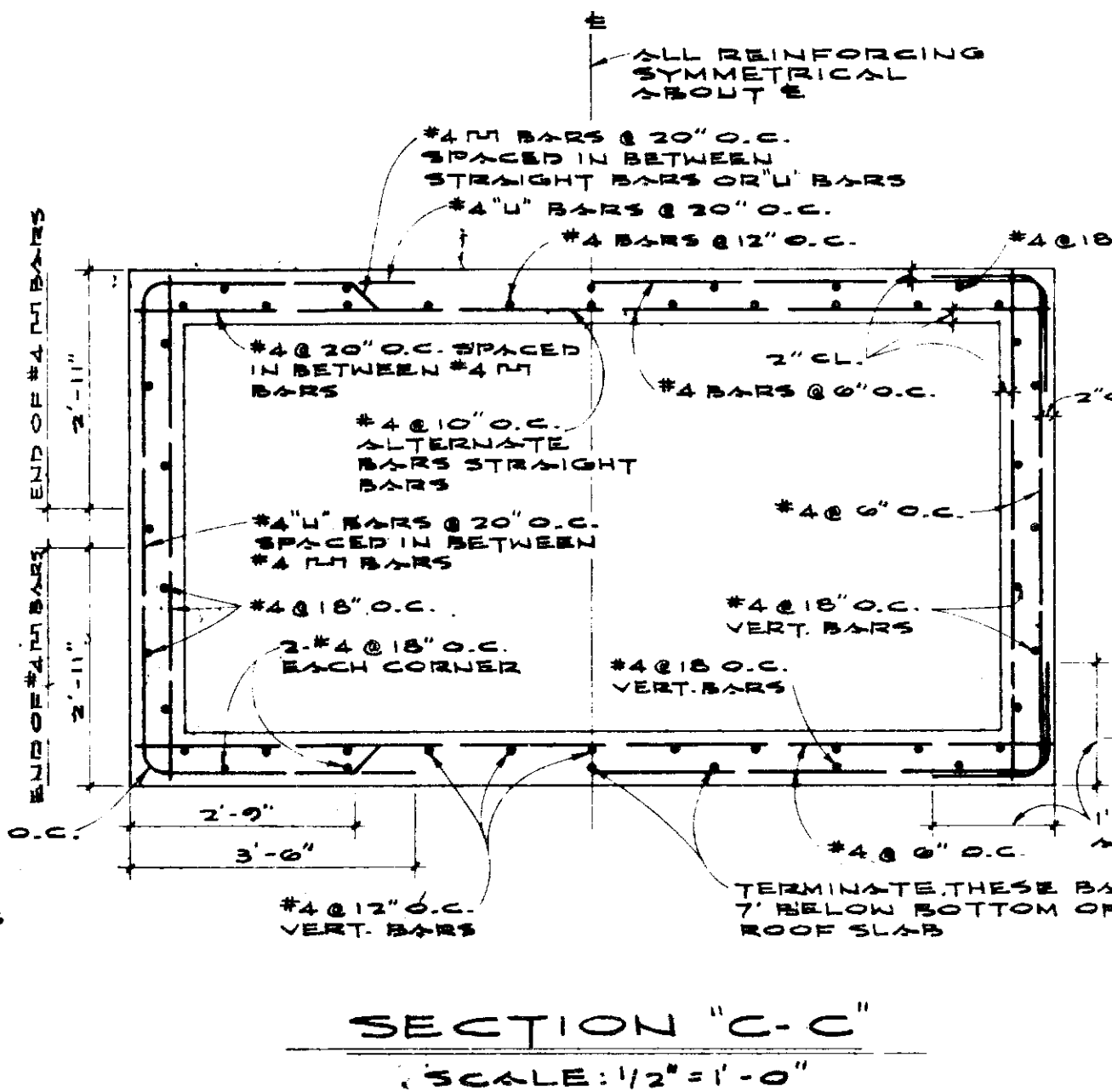
DETAIL "B"
CONSTR. JOINT
SCALE: 1" = 1'-0"



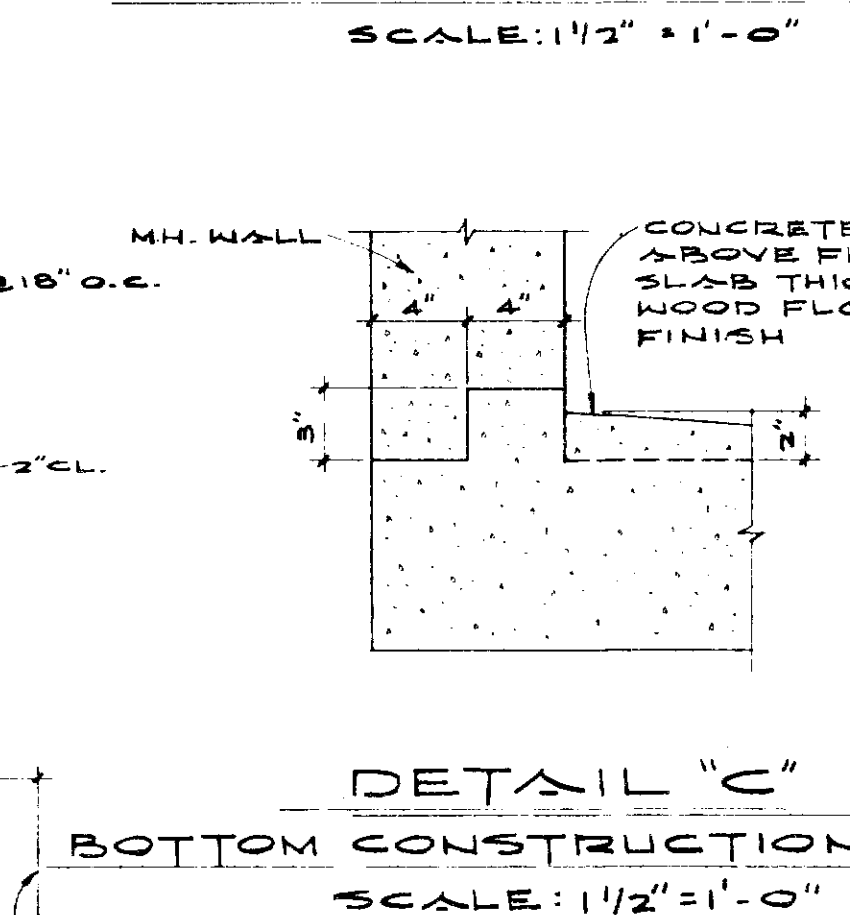
SECTION "A-A"
SCALE: 1/2" = 1'-0"



SECTION "B-B"
SCALE: 1/2" = 1'-0"



SECTION "C-C"
SCALE: 1/2" = 1'-0"



DETAIL "C"
BOTTOM CONSTRUCTION JOINT
SCALE: 1/2" = 1'-0"

FOR KALANIANA'OLE HIGHWAY
PROJECT NO. F-072-1(34) ONLY

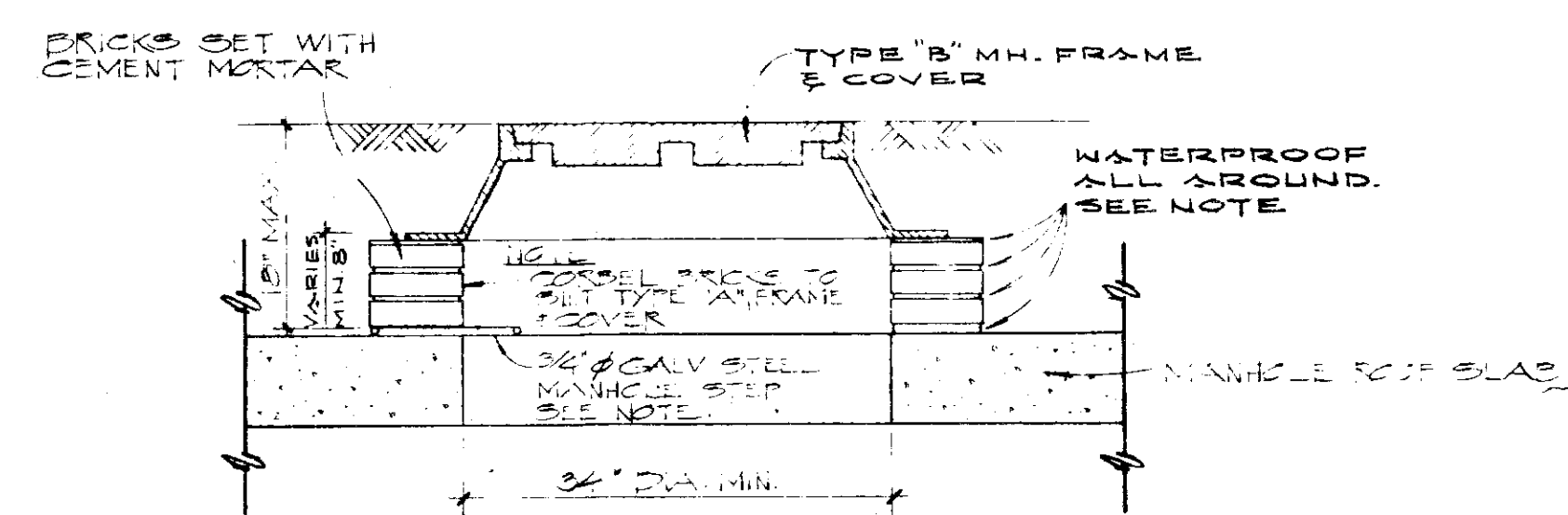
GENERAL NOTES:

- DESIGN DATA:
F_y = 20,000 PSI
F_c = 3,000 PSI, f_c = 1350 PSI
N = 10
W = EQUIV. FLUID PRESS:
30#/FT²
- ALL CONSTRUCTION JOINTS SHALL BE WATERPROOFED WITH TWO APPLICATIONS OF THORO SEAL OR EQUAL.
- FOR DUCT WINDOW LOCATION SEE PLAN PROFILE SHEETS FOR ELEVATIONS.
- DUCT WINDOW TO SUIT. SEE PLAN & PROFILE & STANDARD DUCT FORMATIONS & MANHOLE DETAILS SHEET.
- FOR DUCT WINDOW DETAILS SEE SECTION F-F, STANDARD DUCT FORMATIONS & MANHOLE DETAILS SHEET.
- STEP AND LADDER REQUIRED ONLY IN MANHOLES WITH HEADROOM OF 5'-0" OR MORE. AVAILABLE AT WESTINGHOUSE ELECTRICAL SUPPLY CO. UPON REQUEST.

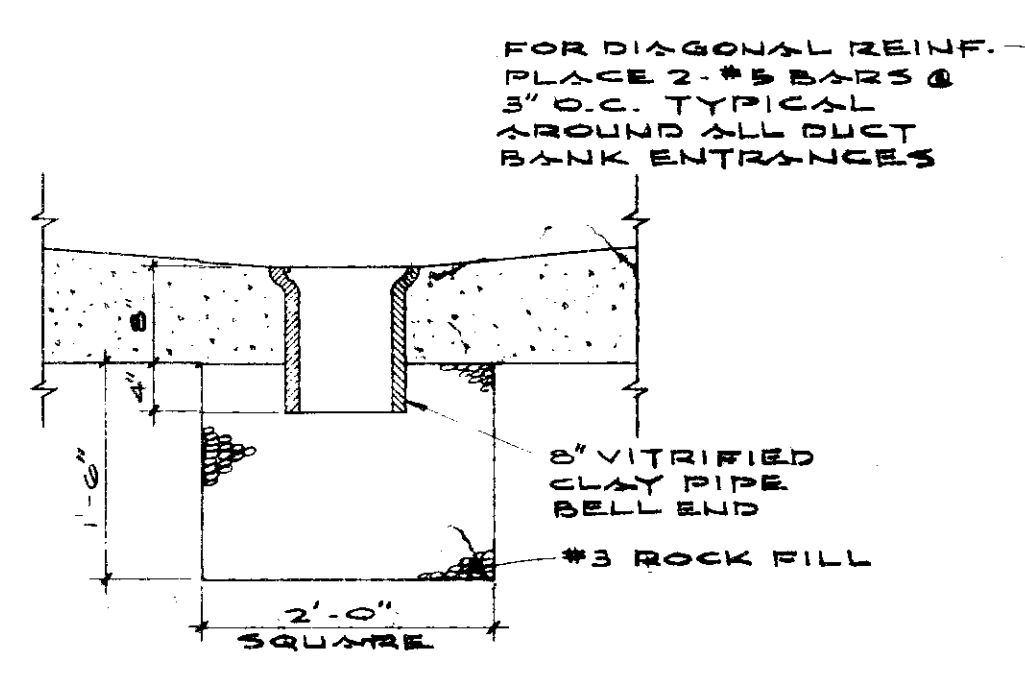
ITEM
STEP
LADDER W/ PERMA-
NENTLY RIVETED
HOOKS

STOCK NO.
H-6000
H-6001
H-6002
H-6003

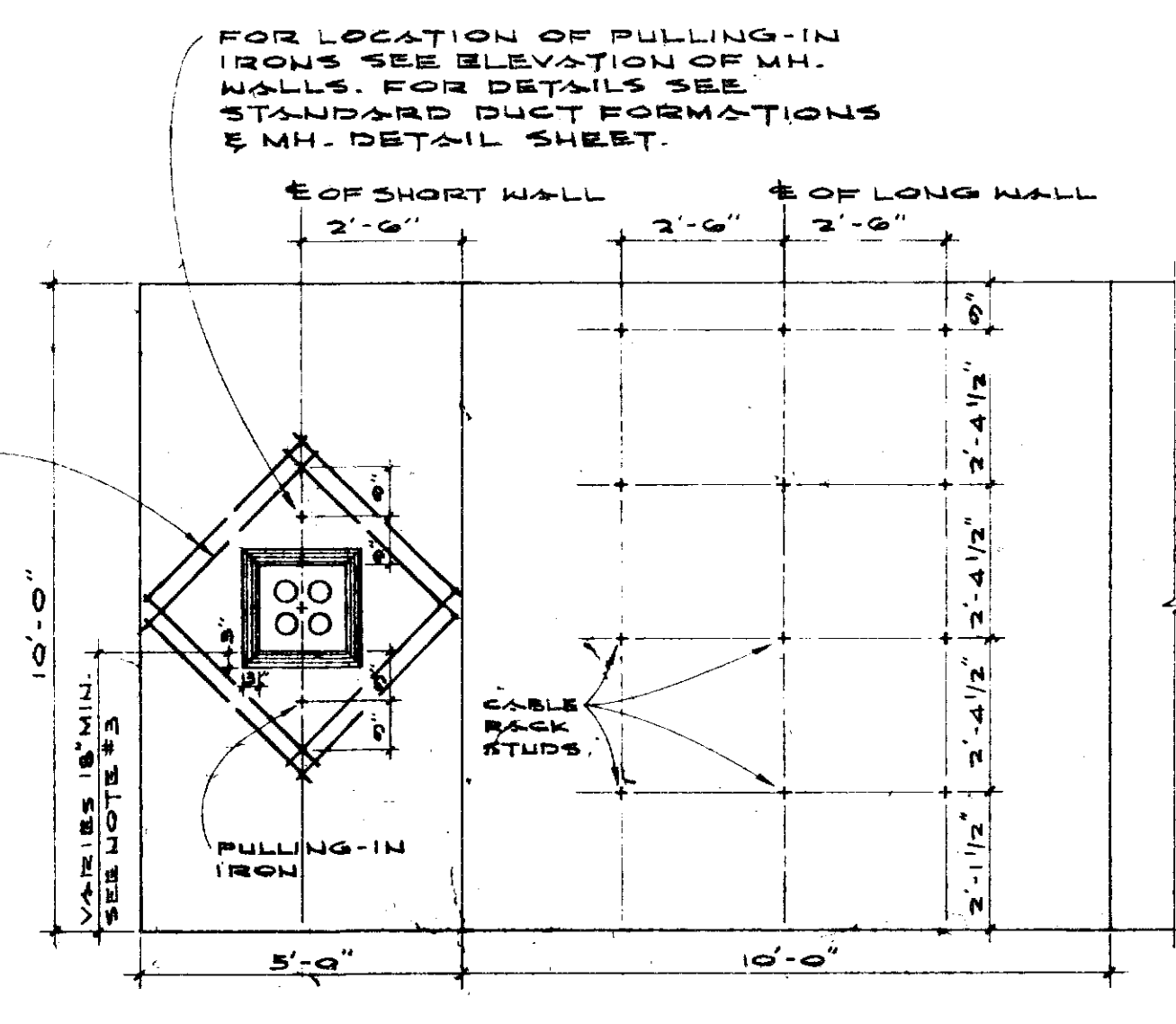
MANHOLE CLASSIFICATION TYPE A-3-7.5
WIDTH & LENGTH DESIGNATION
12'-0" x 12'-0"



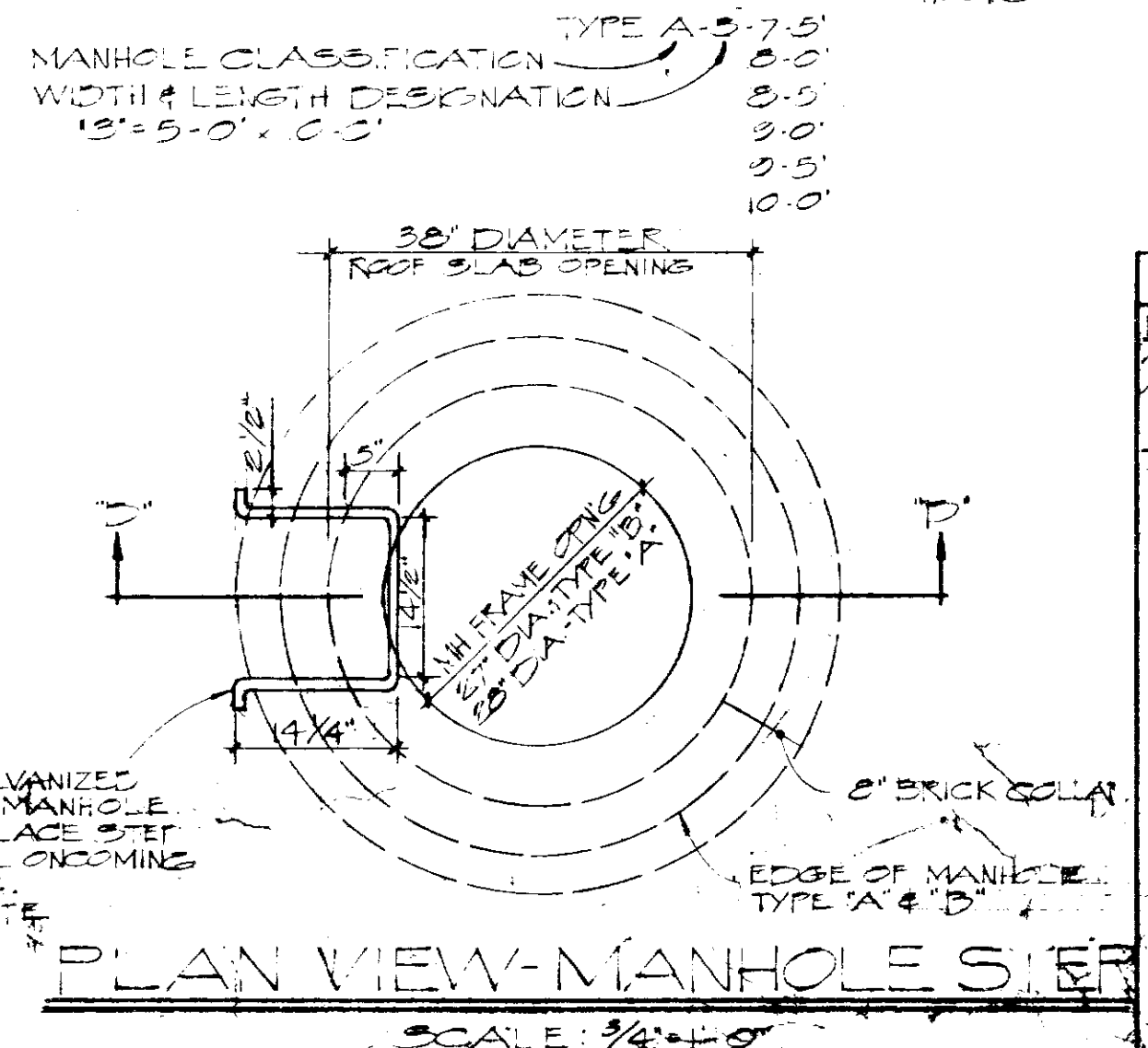
SECTION "D-D"
MH. COVER DETAIL
SCALE: 3/4" = 1'-0"



SECTION "E-E"
MH. SUMP DETAIL
SCALE: 3/4" = 1'-0"



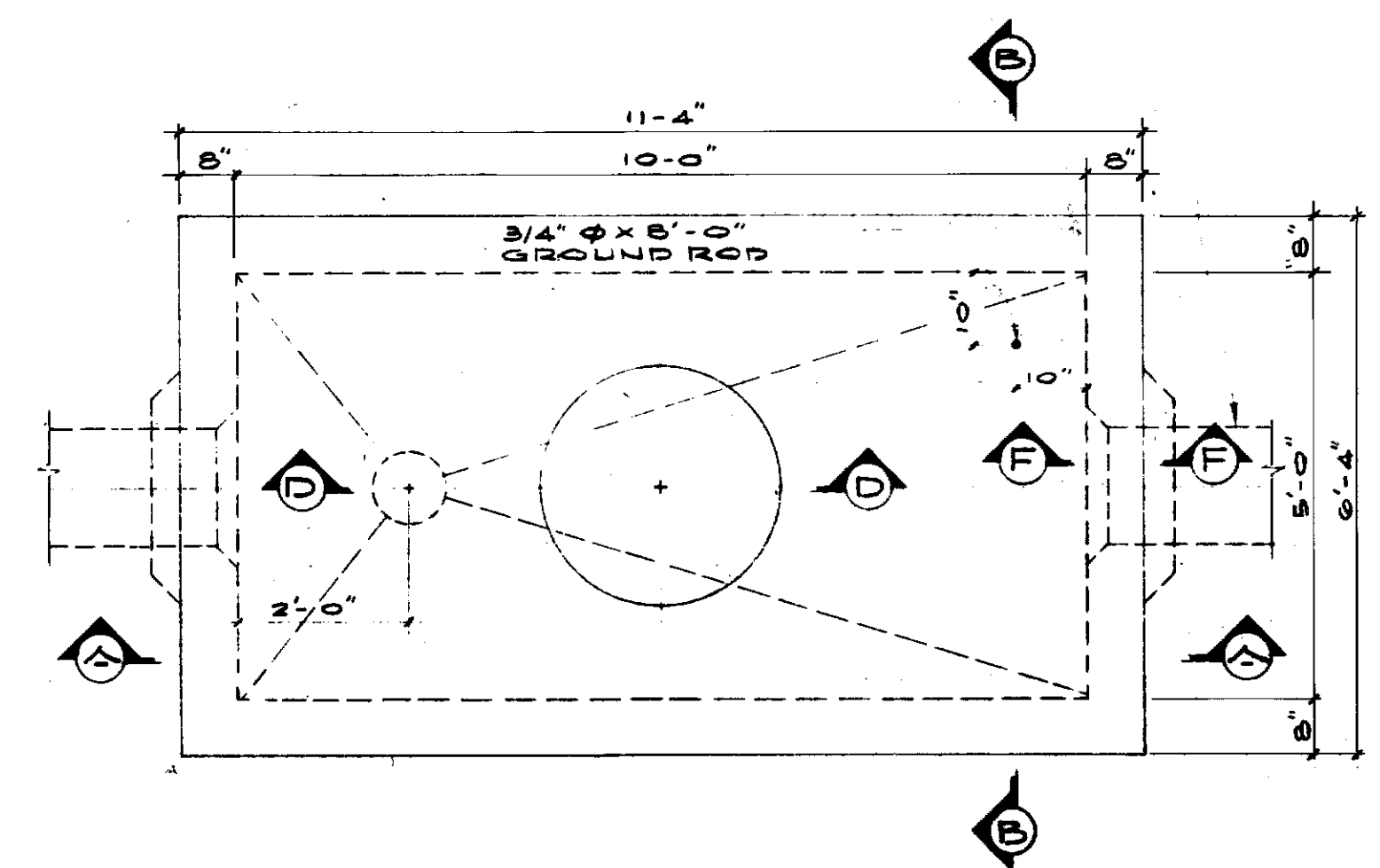
ELEVATION OF MH. WALLS TYPE "A-3" SERIES
(OPPOSITE FACES SIMILAR)
SCALE: 1/8" = 1'-0"



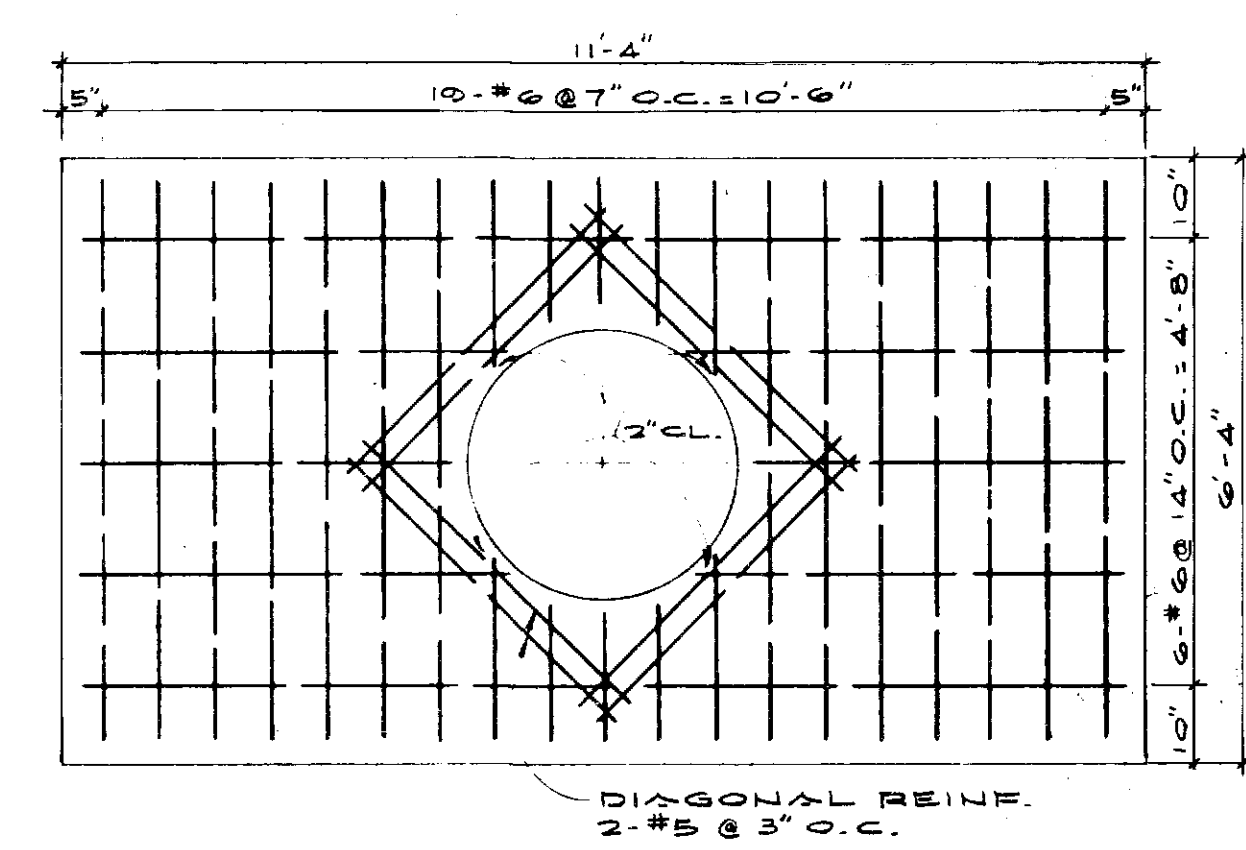
PLAN VIEW-MANHOLE SUMP
SCALE: 3/4" = 1'-0"

REVISED
REVISED: 7-23-70
ADDED MH STEP
AND NOTE
REVISED: 7-27-74 R.S.
REMOVED CHAMFER
FROM CORNERS

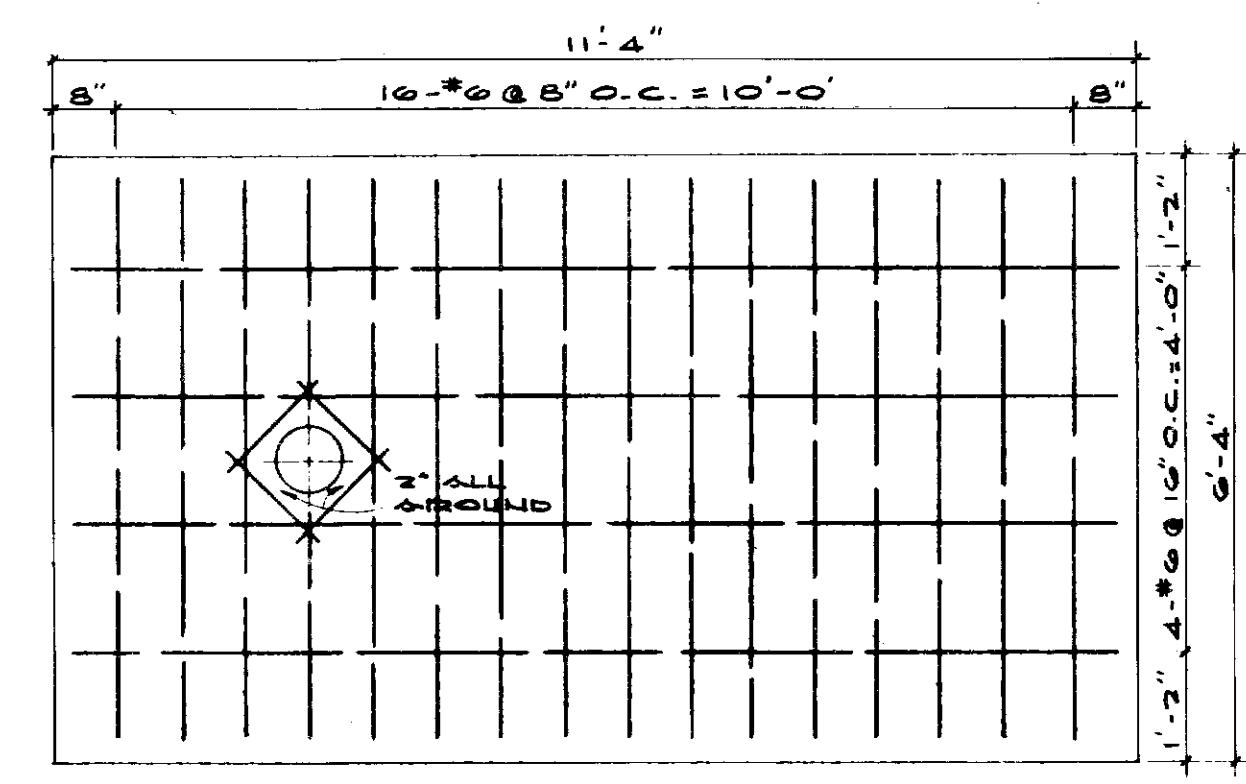
FILE	DR. IN	ENG.	34065
APPROVAL	CHK.	TEL.	
CONSTRUCTION	INDEX	APP'D.	
MAINTENANCE			
ACCOUNTING			
CONTRACTOR			
TOTAL PRINTS			



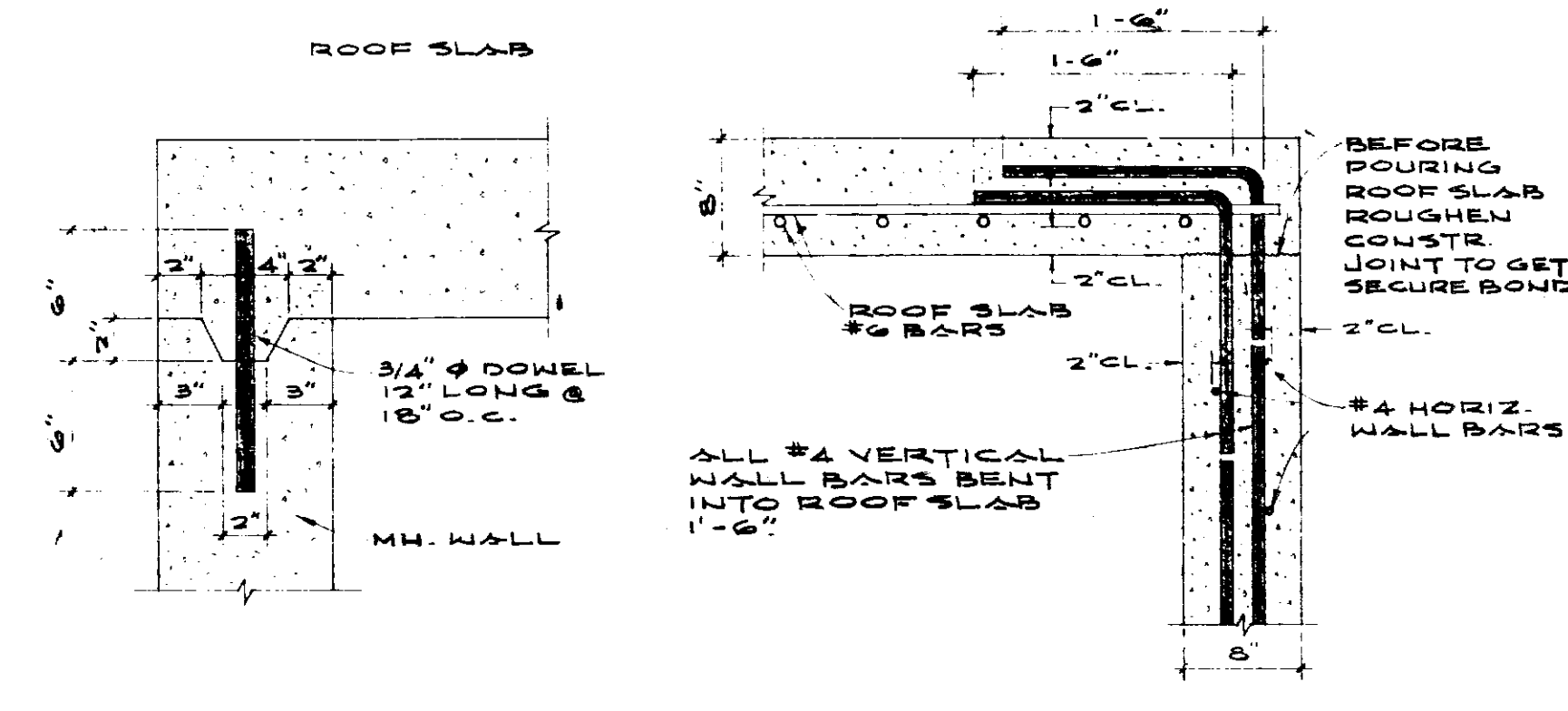
PLAN-MH. TYPE 'A-3' SERIES
FOR ROADWAY & SIDEWALK AREAS
SCALE: 1/2" = 1'-0"



ROOF SLAB REINF. PLAN
SCALE: 1/2" = 1'-0"

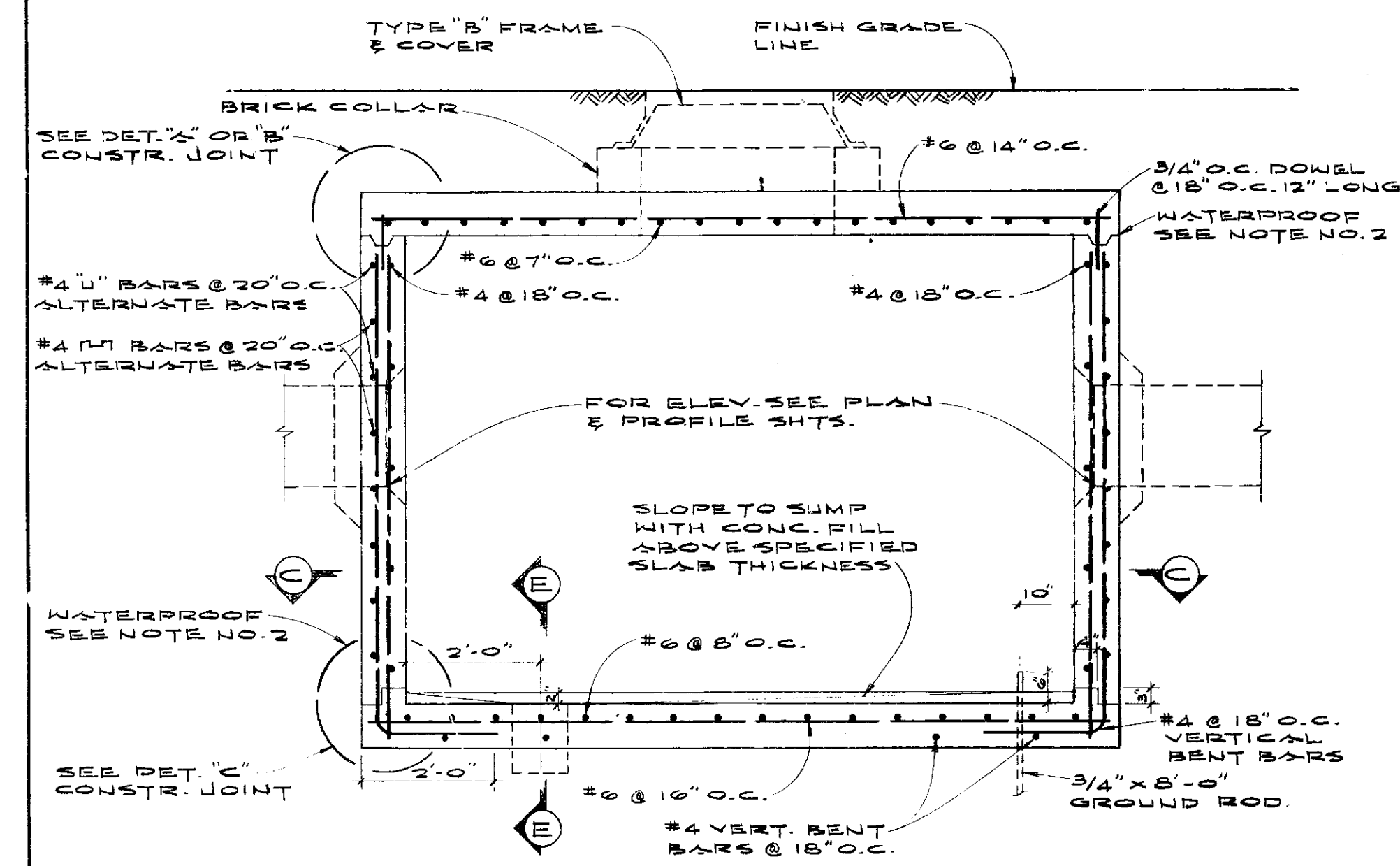


FLOOR SLAB REINF. PLAN
SCALE: 1/2" = 1'-0"

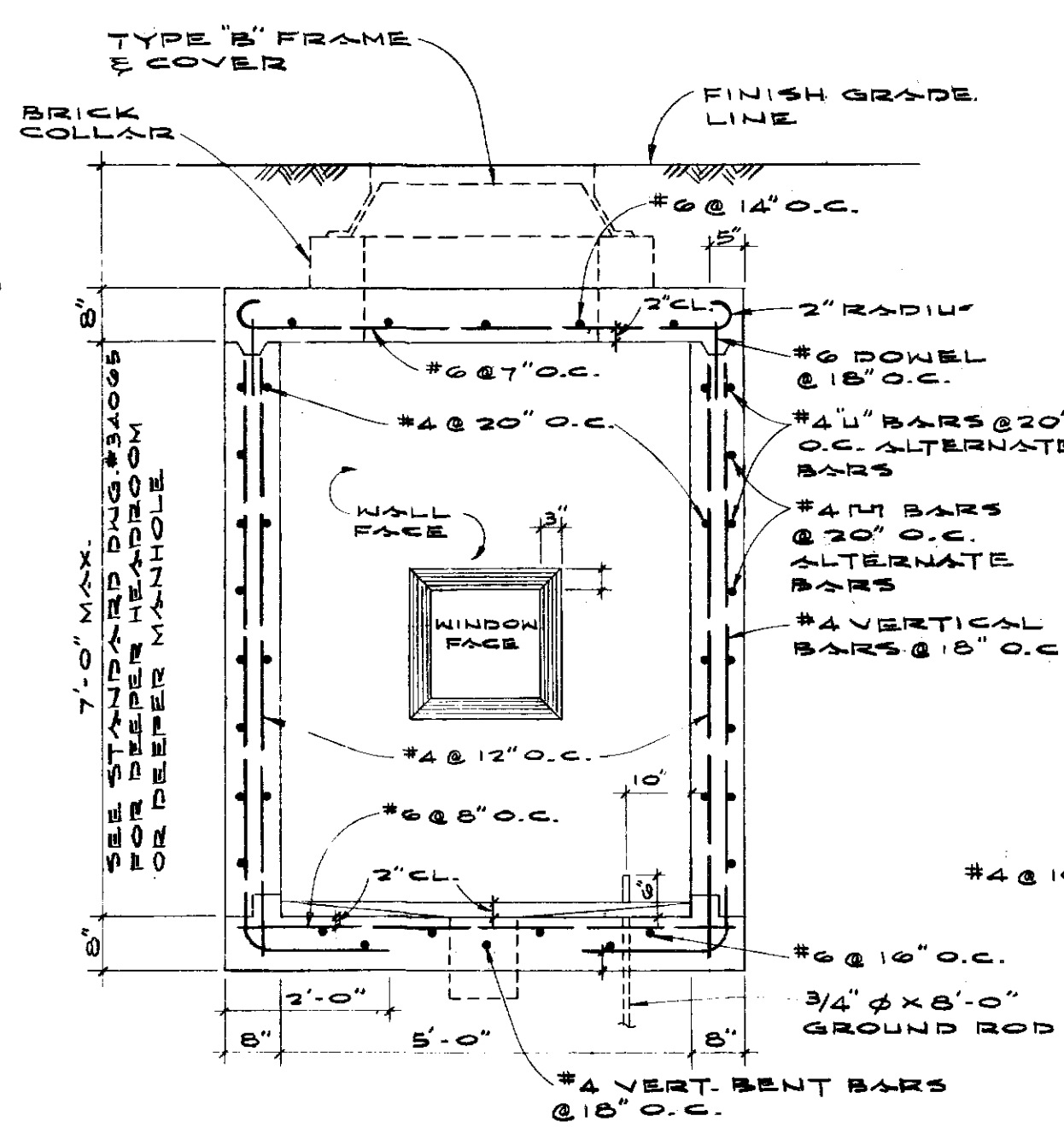


DETAIL "A" TOP CONSTR. JOINT
OPTIONAL FOR CAST-IN-PLACE CONSTR.
REQUIRED FOR PRECAST CONSTR.
SCALE: 1 1/2" = 1'-0"

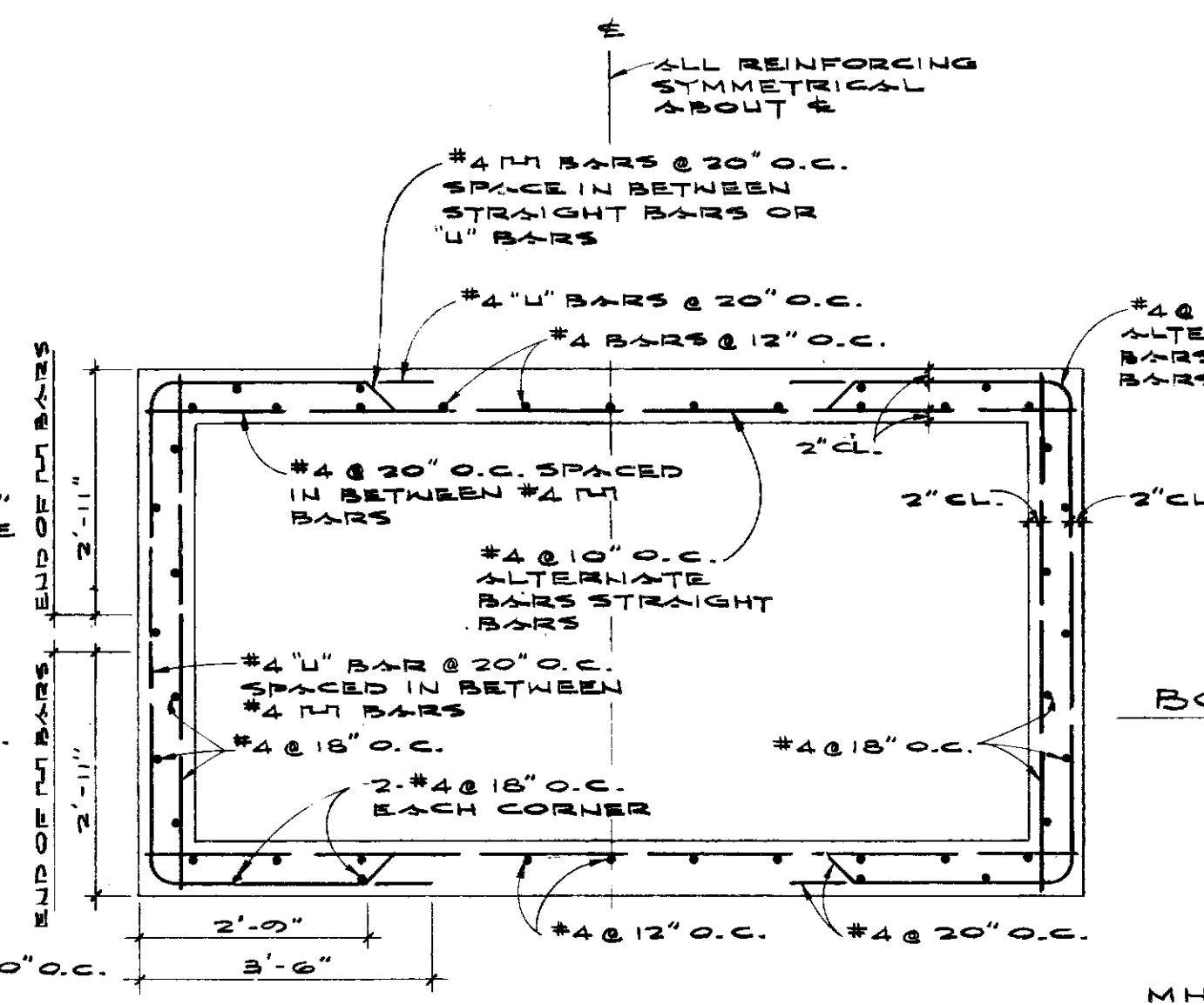
DETAIL "B" CONSTR. JOINT
USE FOR CAST-IN-PLACE CONSTR.
SCALE: 1" = 1'-0"



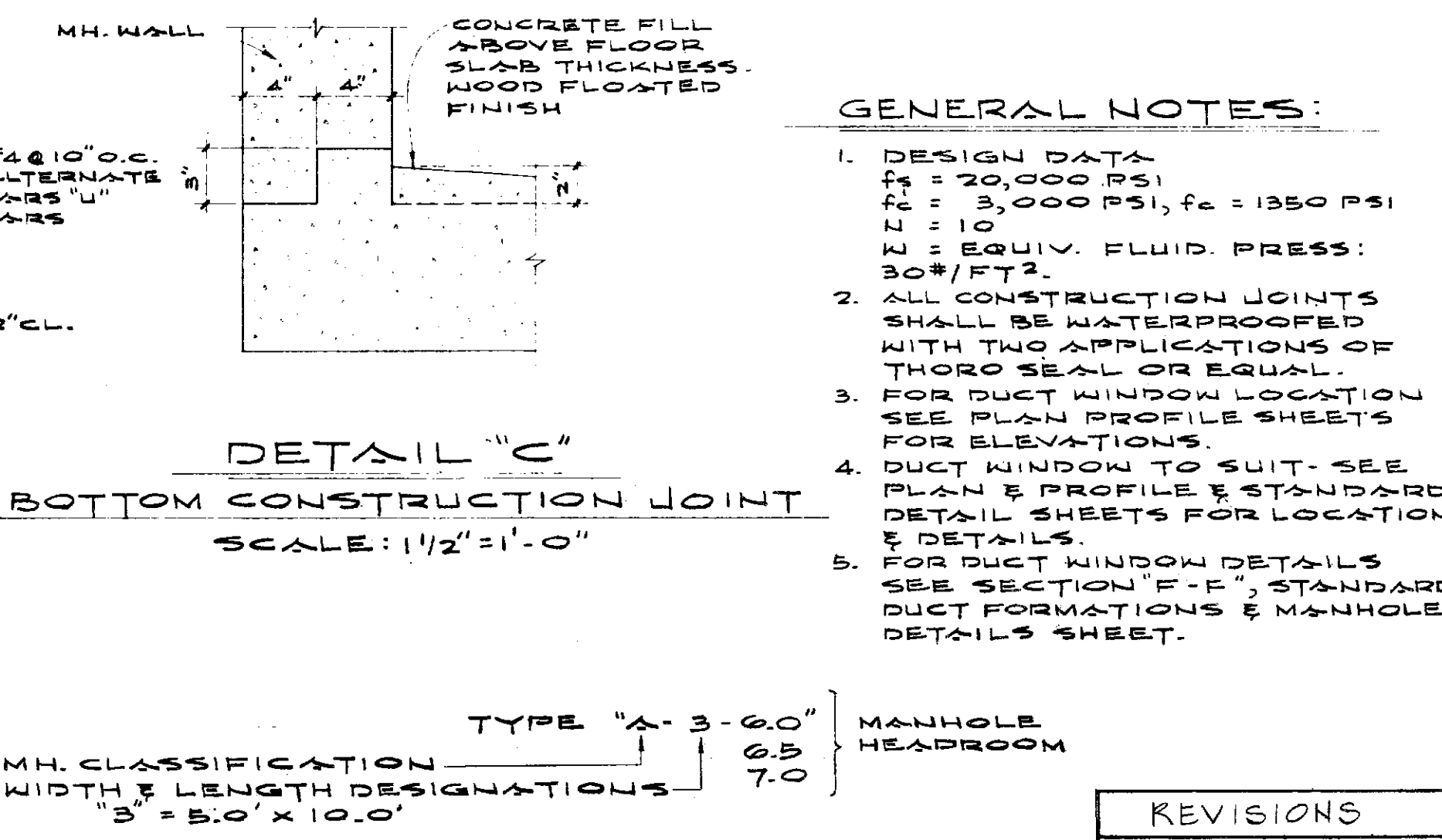
SECTION "A-A"
SCALE: 1/2" = 1'-0"



SECTION "B-B"
SCALE: 1/2" = 1'-0"

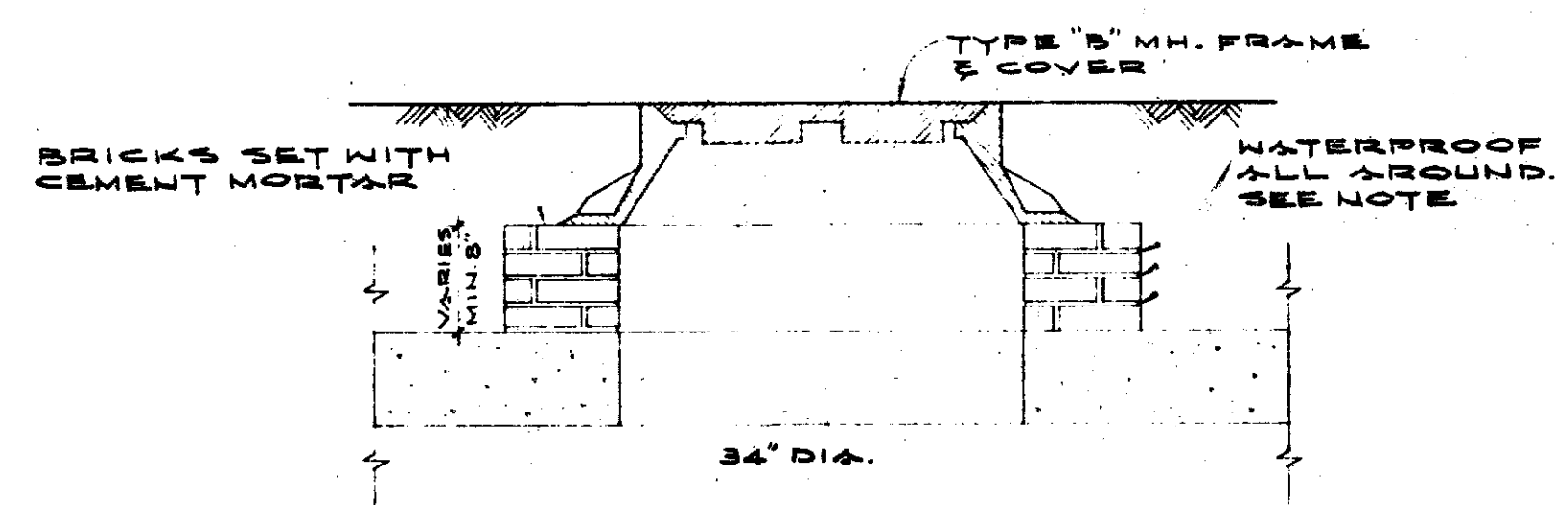


SECTION "C-C"
SCALE: 1/2" = 1'-0"

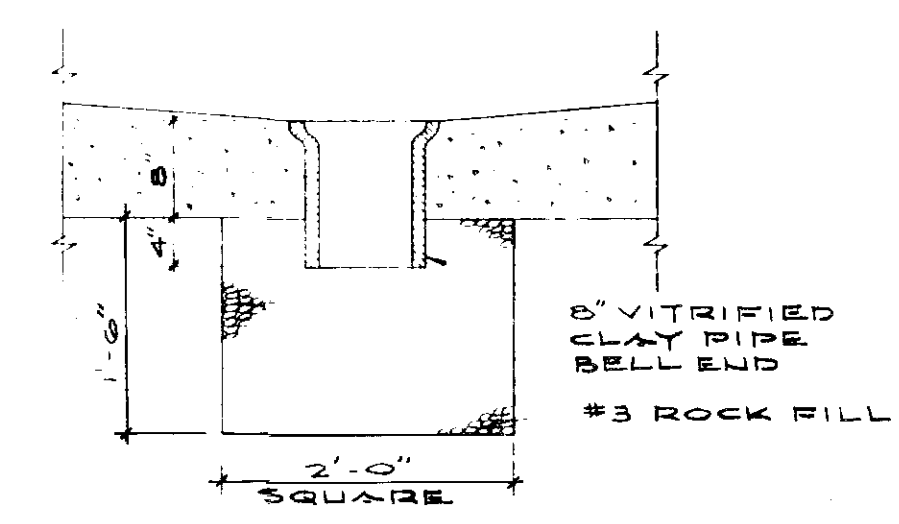


DETAIL "C" BOTTOM CONSTRUCTION JOINT
SCALE: 1 1/2" = 1'-0"

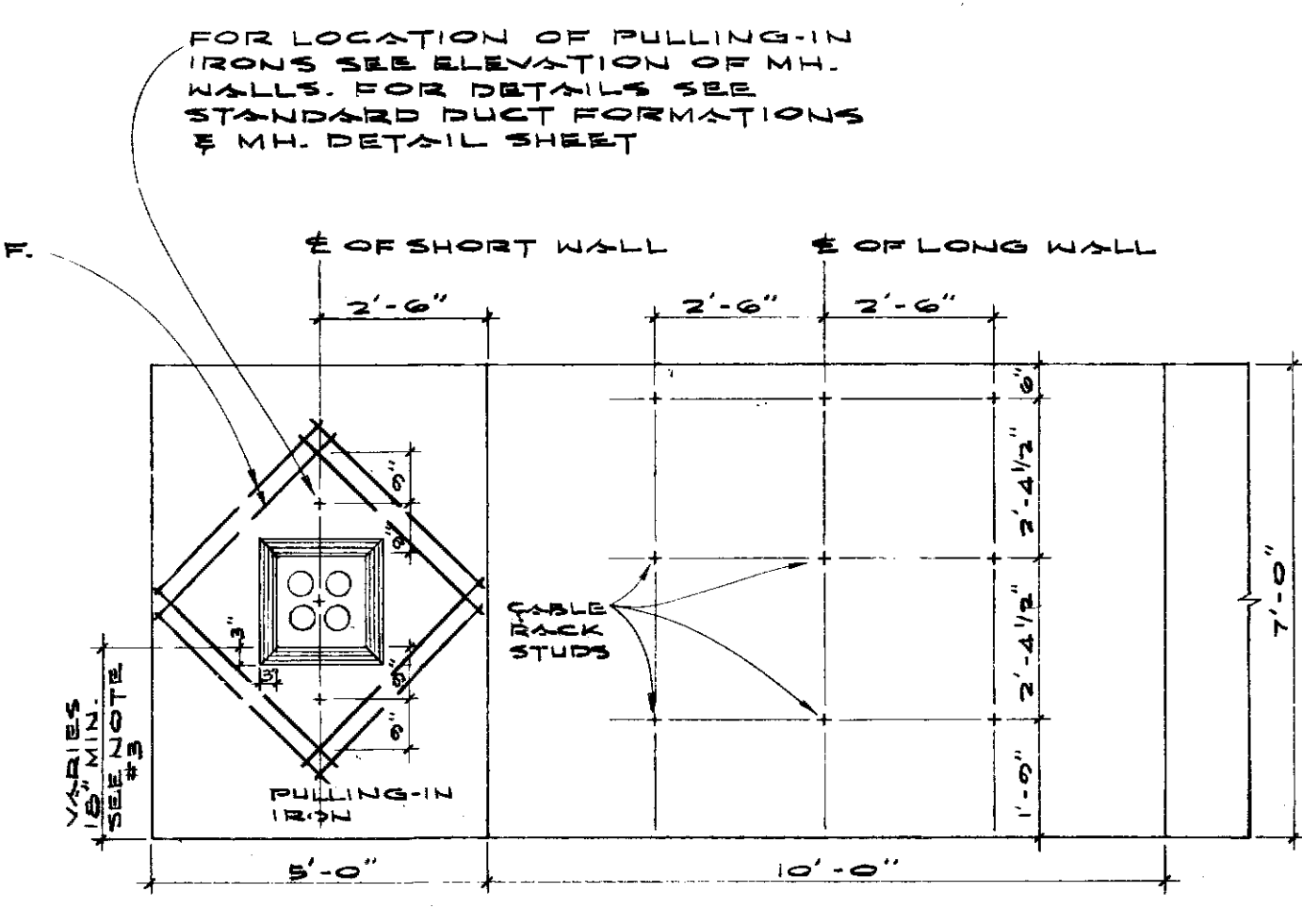
- GENERAL NOTES:**
- DESIGN DATA
f_s = 20,000 PSI
f_c = 3,000 PSI, f_c = 1350 PSI
W = EQUIV. FLUID PRESS:
30#/FT²
 - ALL CONSTRUCTION JOINTS SHALL BE WATERPROOFED WITH TWO APPLICATIONS OF THORO SEAL OR EQUAL.
 - FOR DUCT WINDOW LOCATION SEE PLAN PROFILE SHEETS FOR ELEVATIONS.
 - DUCT WINDOW TO SUIT. SEE PLAN & PROFILE & STANDARD DETAIL SHEETS FOR LOCATION & DETAILS.
 - FOR DUCT WINDOW DETAILS SEE SECTION "F-F", STANDARD DUCT FORMATIONS & MANHOLE DETAILS SHEET.



SECTION "D-D"
MH. COVER DETAIL
SCALE: 3/4" = 1'-0"



SECTION "E-E"
MH. SUMP DETAIL
SCALE: 3/4" = 1'-0"



ELEVATION OF MH. WALLS TYPE "A-3" SERIES
(OPPOSITE FACES SIMILAR)
SCALE: 3/8" = 1'-0"

FOR KALANIANA'OLE HIGHWAY
PROJECT NO. F-072-1(34) ONLY

REVISIONS
REVISED: 7-5-74 RS. REMOVED CHAMFER FROM CORNERS.

FILE	DR. IN	ENG.	TYPE "A-3" MANHOLES
CONSTRUCTION	CHK.	TEL.	FOR 6'-0" TO 7'-0" HEADROOM
MAINTENANCE	INDEX	APP'D.	
ACCOUNTING			
CONTRACTOR			
TOTAL PRINTS			
SHEET		DATE	