

STORM SEWER PLANS FOR NORTHROCK BUSINESS PARK PHASE 2 S.W.S. NO. 322 PROJECT NO. 468-76-245-81623-000-000-001

CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER

GENERAL NOTES

1. ALL CONCRETE SHALL BE STANDARD PAVING MIX UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
3. TREES TO BE REMOVED ARE MARKED WITH AN "X". ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
4. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF CONSTRUCTION SCHEDULING.
5. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS UTILITY COMPANIES AND IS EITHER FROM COMPANY RECORD DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.

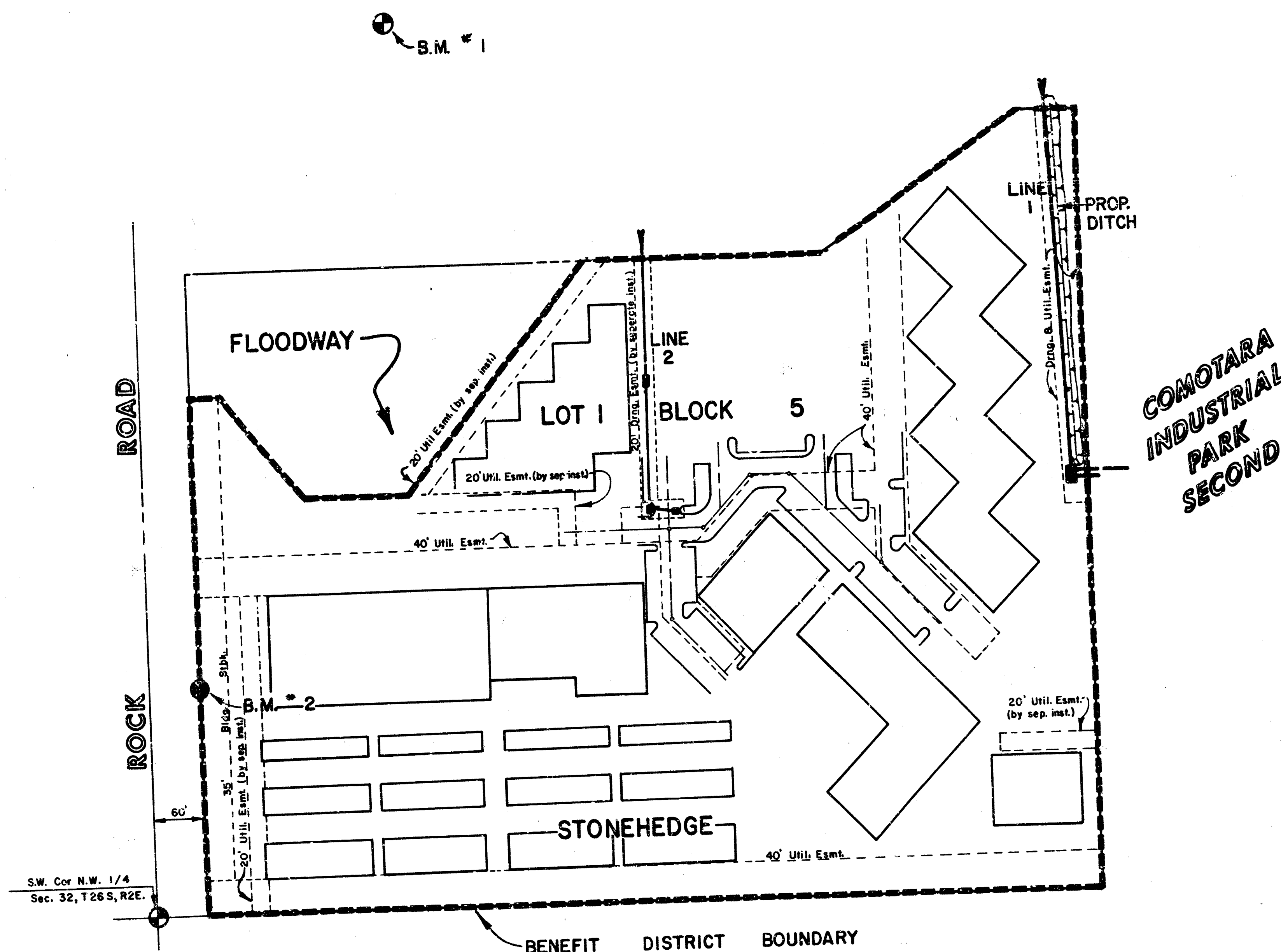
CONTRACTOR SHALL NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE	268-2256
CABLEVISION	259-3340
GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	261-6375
KANSAS ONE-CALL	1-800-344-7233
CITIES SERVICE	524-0491
KANSAS GAS SUPPLY	1-316-254-7243
CONTINENTAL PIPELINE COMPANY	1-316-691-2081
CO-OP REFINERY PIPELINE	1-316-221-2107

BENCH MARKS

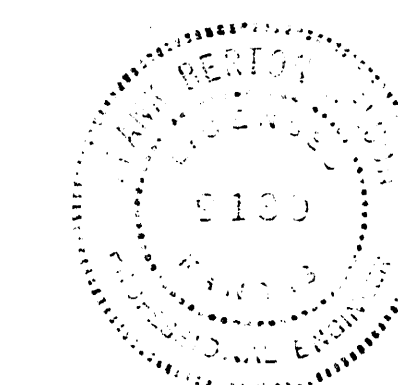
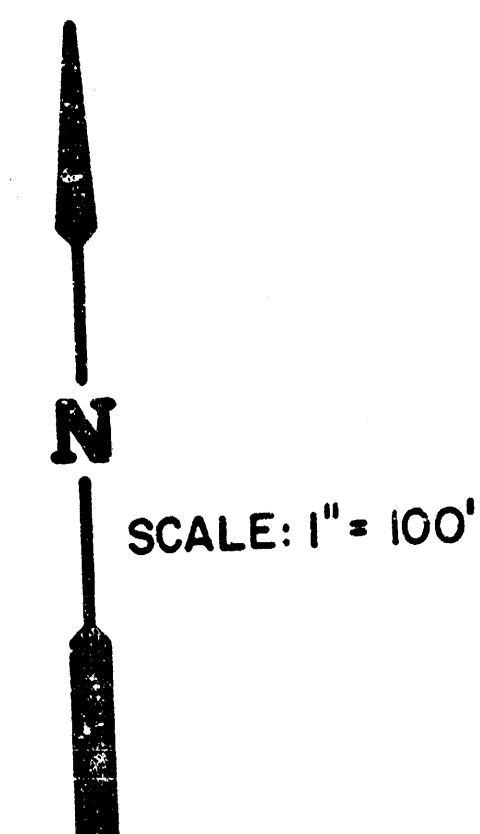
B.M. #1 " " on Northeast side of driveway, Building #600, 3500 North Rock Road.
Elev. = 204.46

B.M. #2 " + " cut on Northeast corner of concrete Driveway entrance to Storage Units. " + " cut is 60' East and 246' North of the West 1/4 corner of Section 32, T 26 S, R 2 E.
Elev. = 202.96



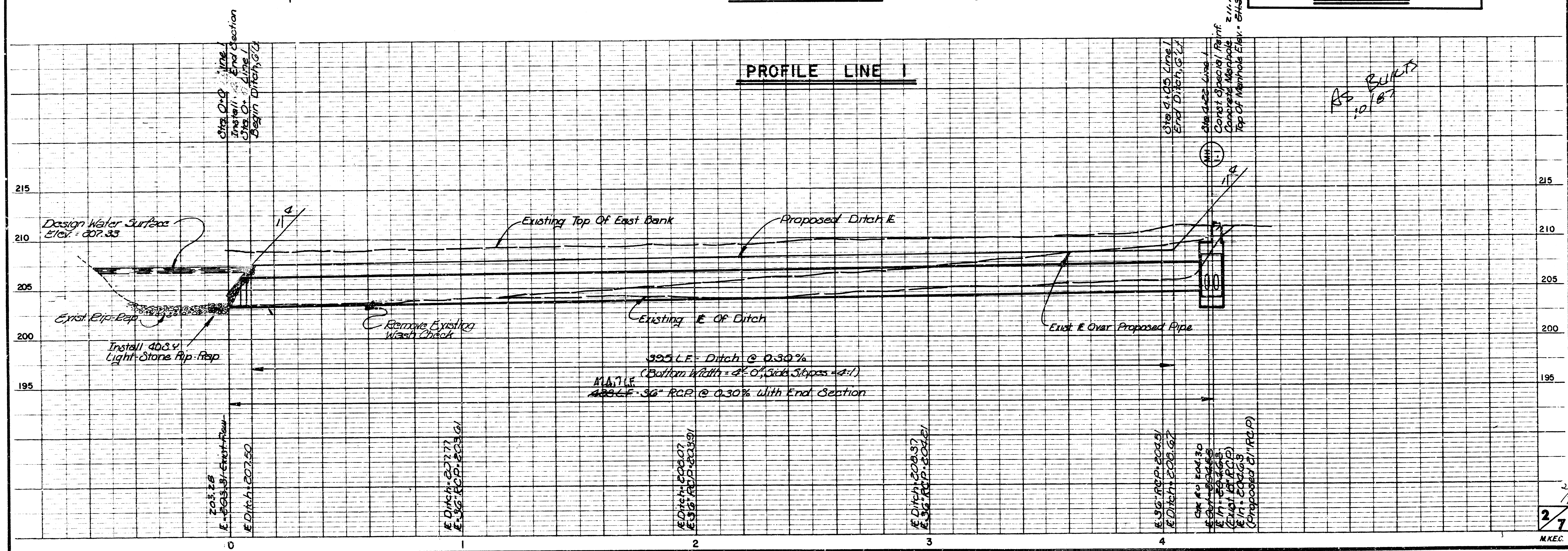
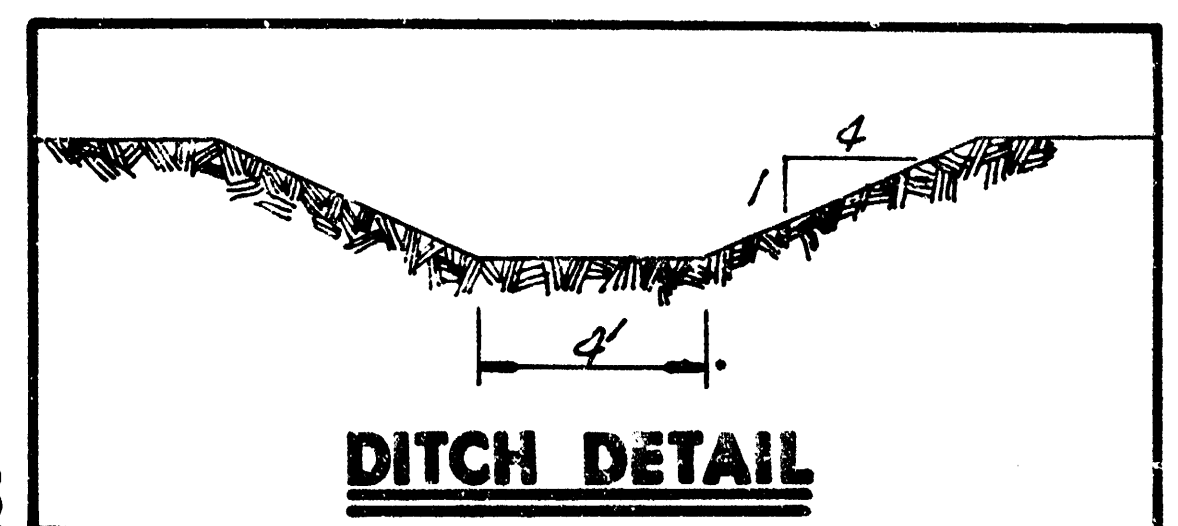
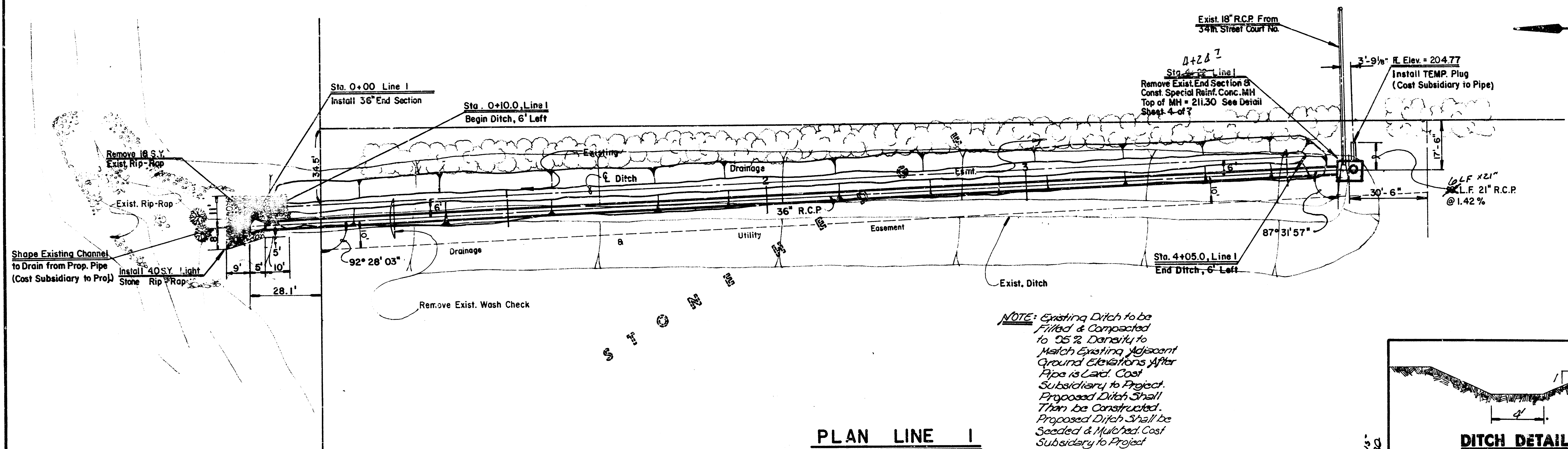
INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	PLAN LINE 1
3	PLAN LINE 2
4	STD. DETAILS - REINF. CONC. MANHOLE
5	CURB INLET DETAILS
6	DROP INLET DETAILS
7	FINAL PLAT

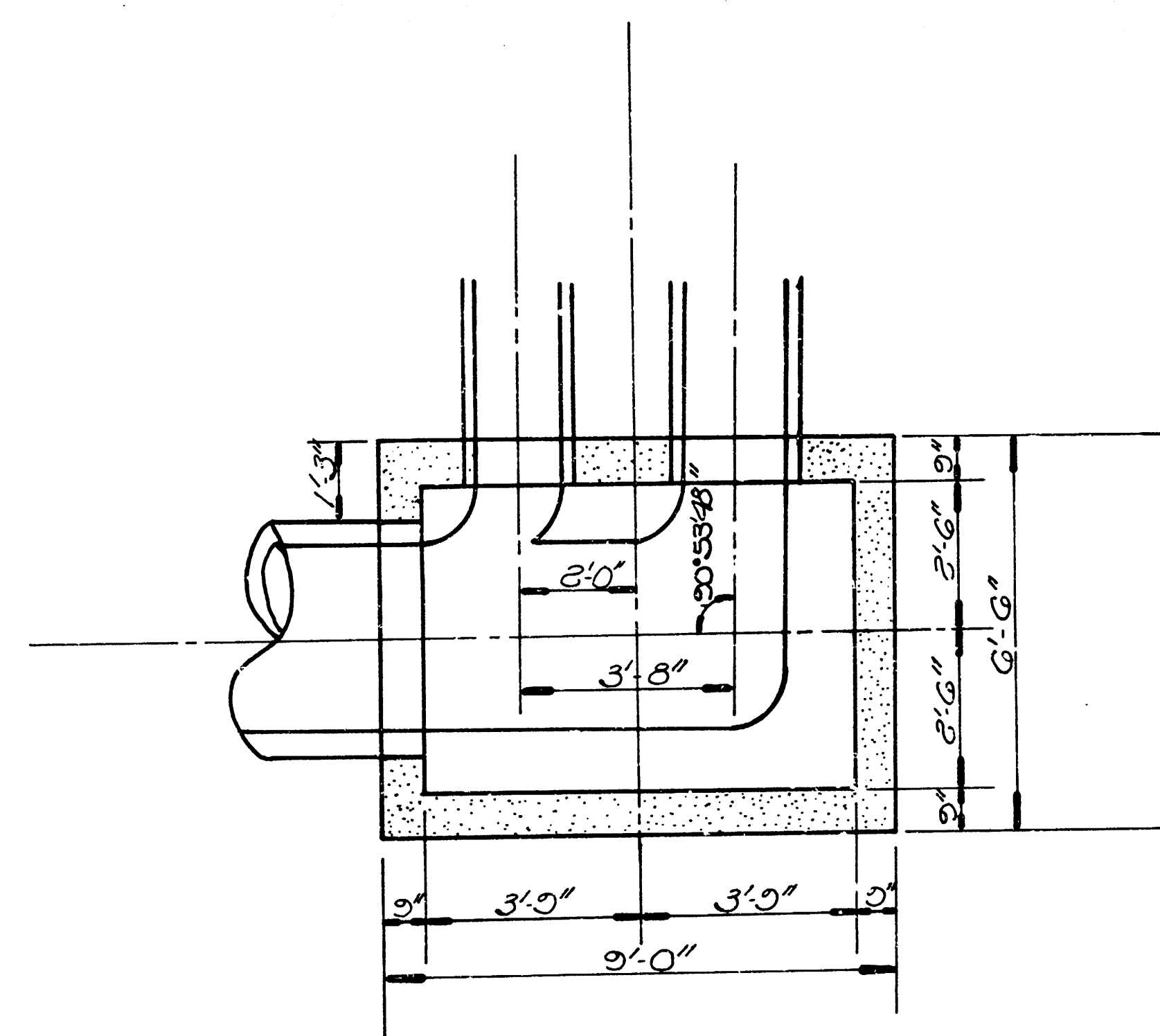


	NORTHROCK BUSINESS PARK PHASE 2 STORM WATER SEWER PLANS		Design: FBN Drawn by: DDG Checked by: Date: JAN. 5, 1987 Scale:
	MID-KANSAS ENGINEERING CONSULTANTS PA 3500 NORTH ROCK ROAD BUILDING #600 WICHITA, KANSAS 67226		Sheet: 1 of: 7
	682-6561		

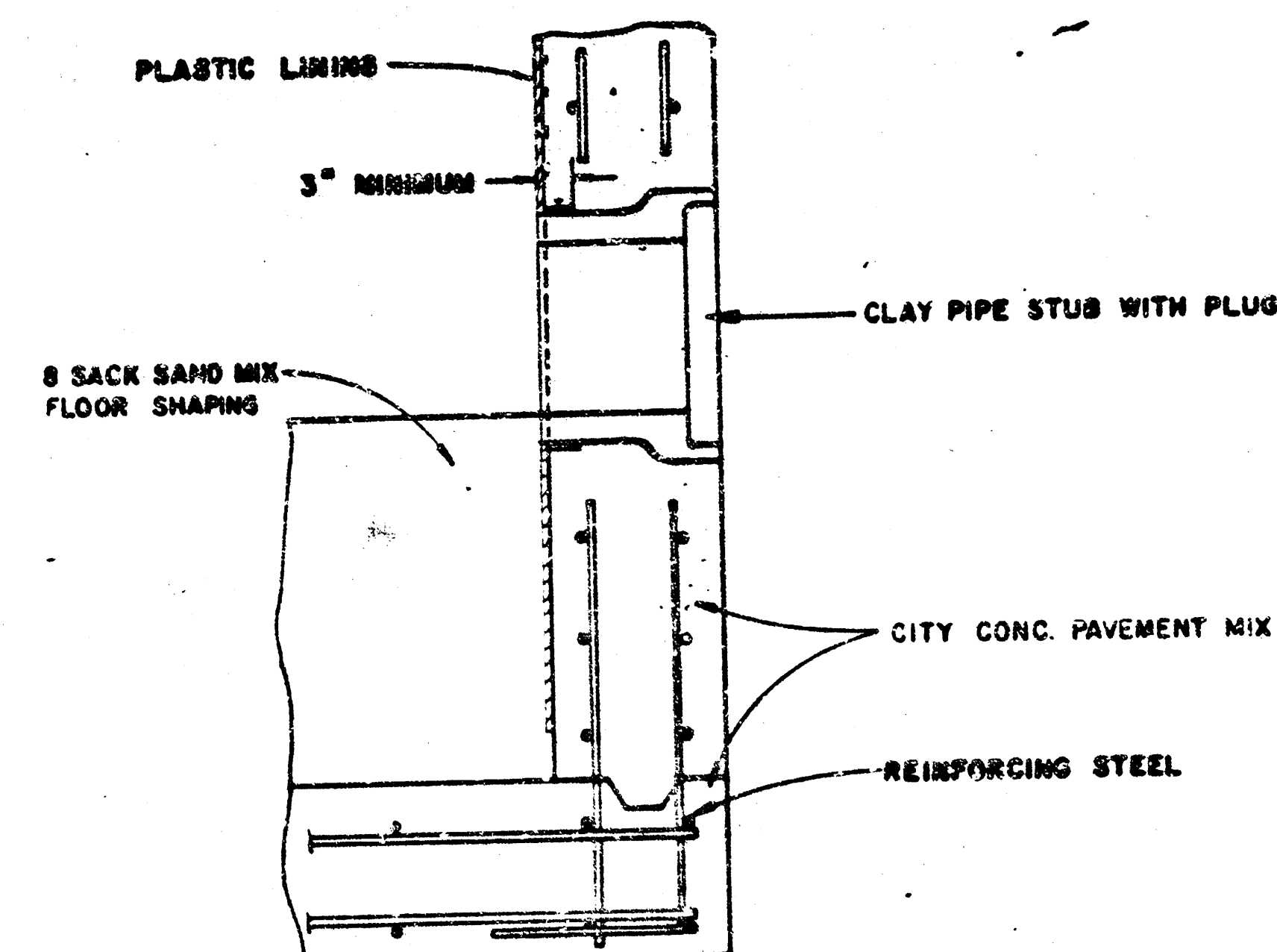
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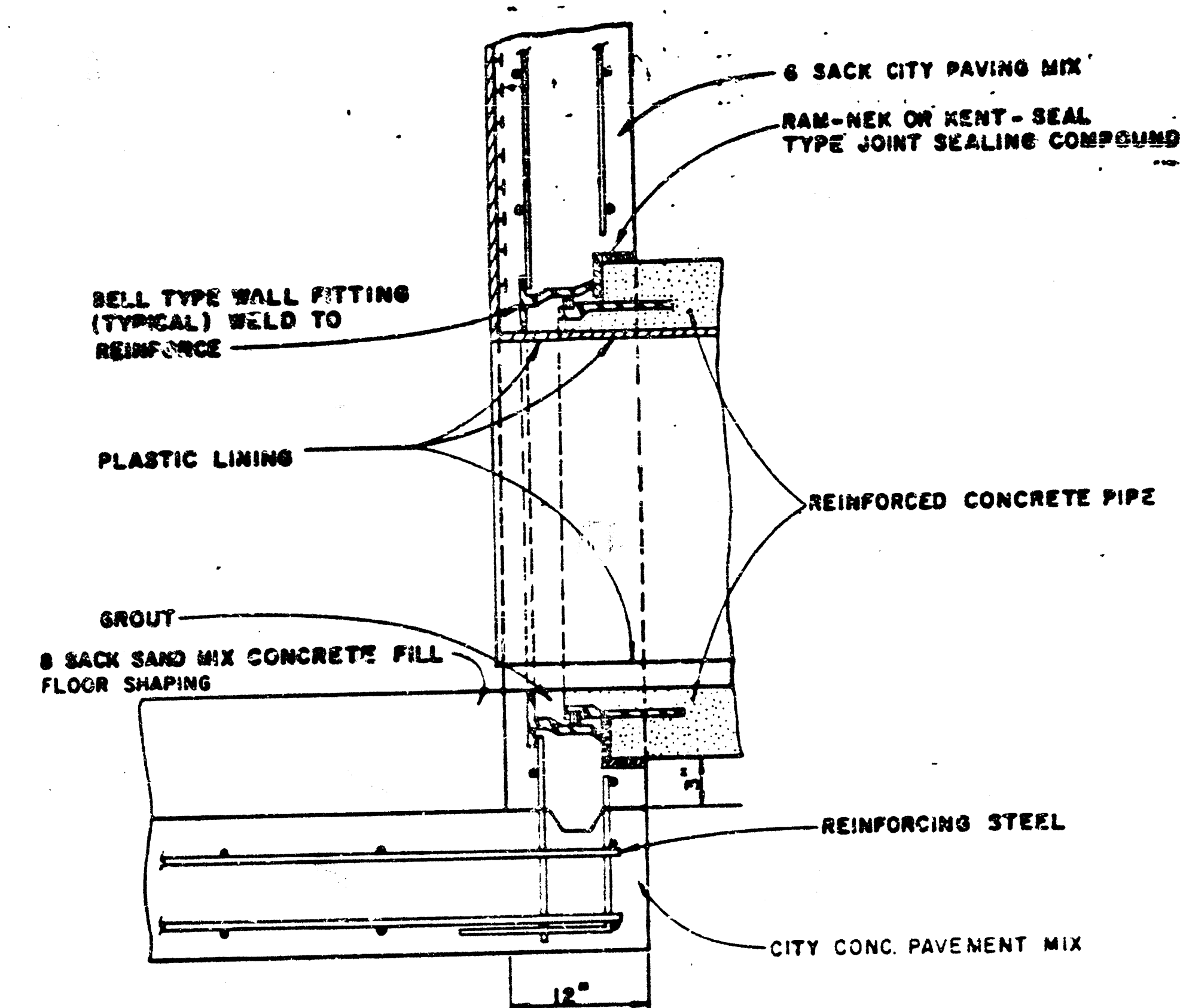




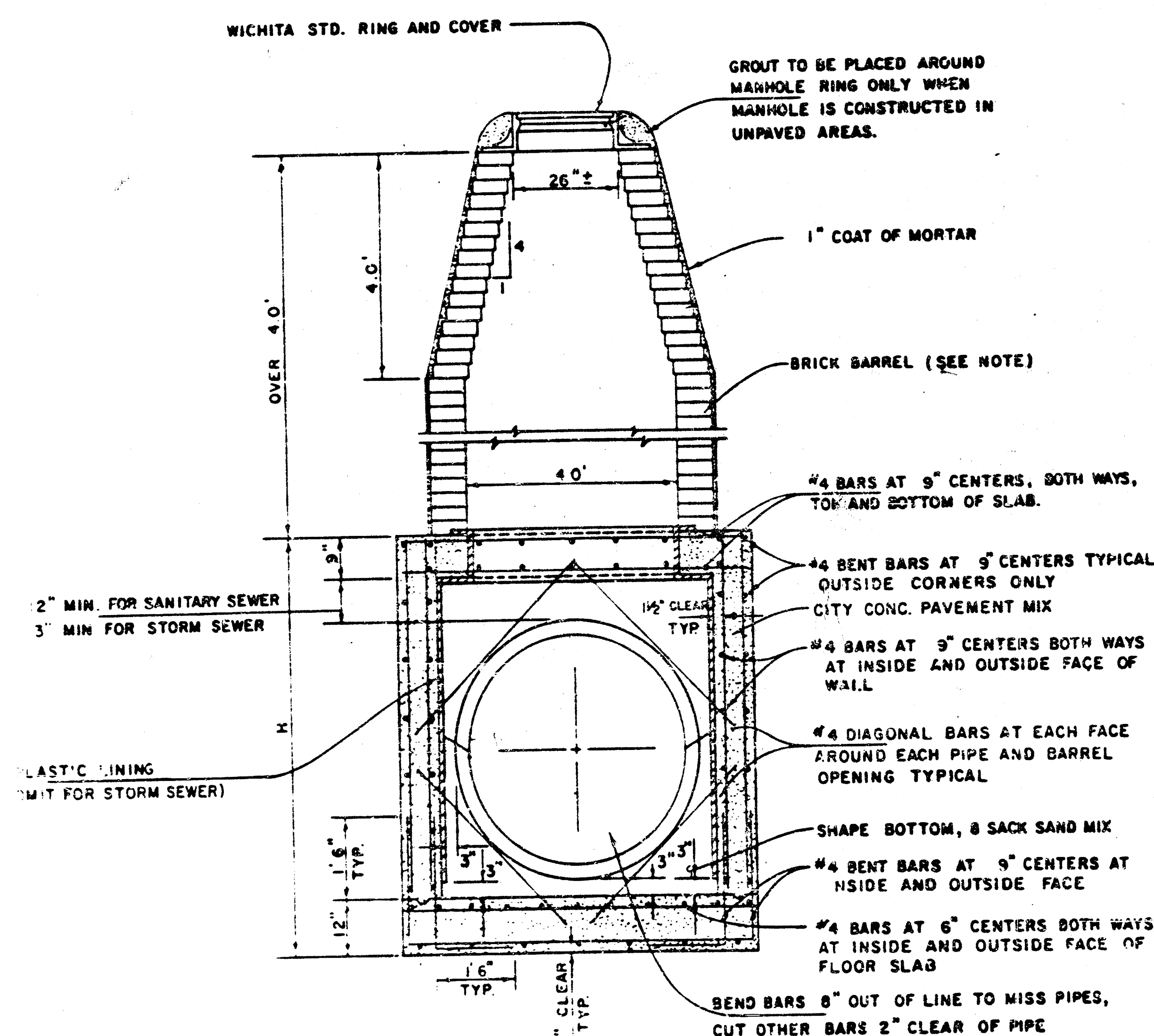
REINFORCED CONCRETE MANHOLE
(STA. 4+22.0, LINE 1)
(Reinforcing Omitted from Detail for Clarity)



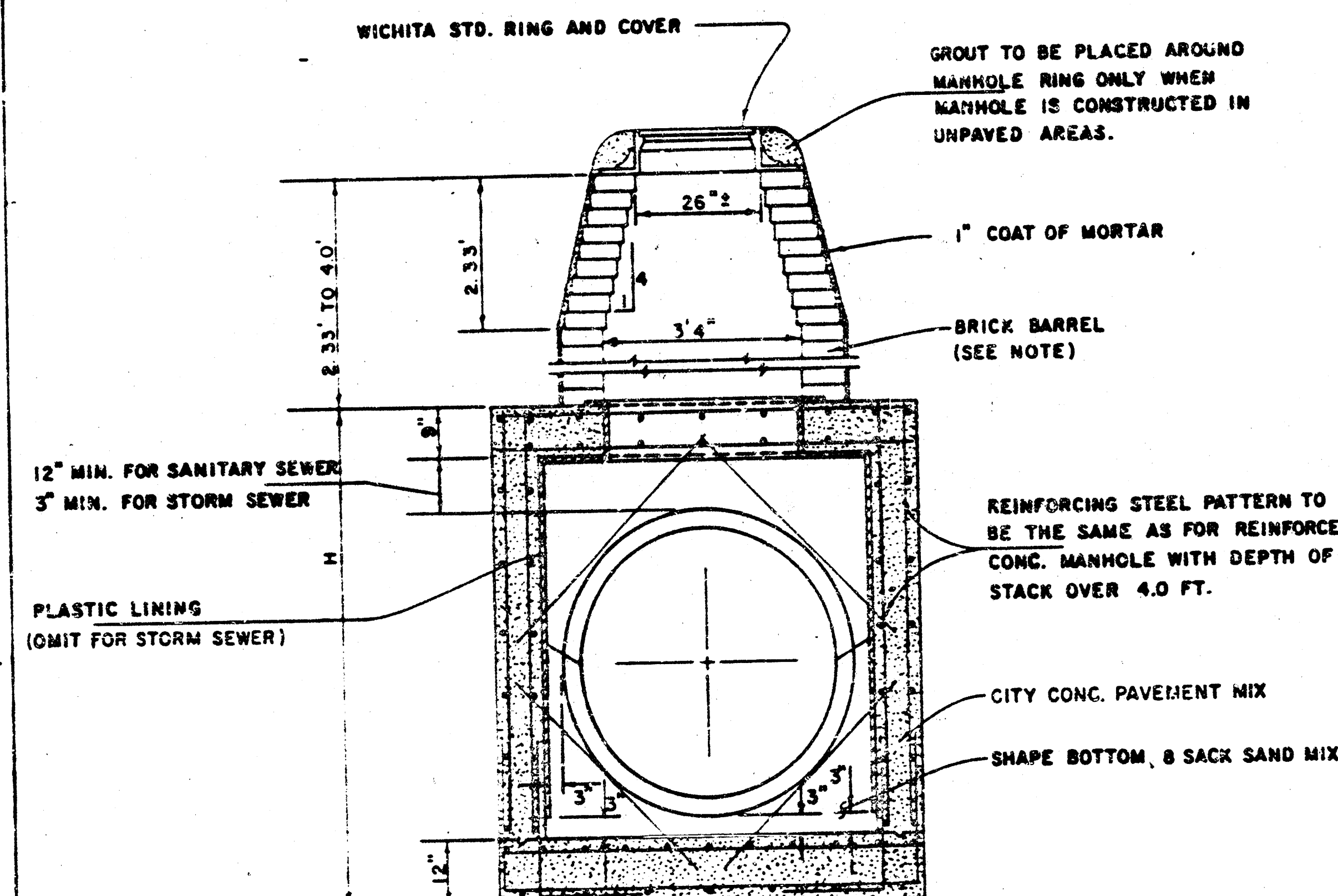
V.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY



R.C.P. CONNECTION DETAIL
SANITARY SEWER ONLY

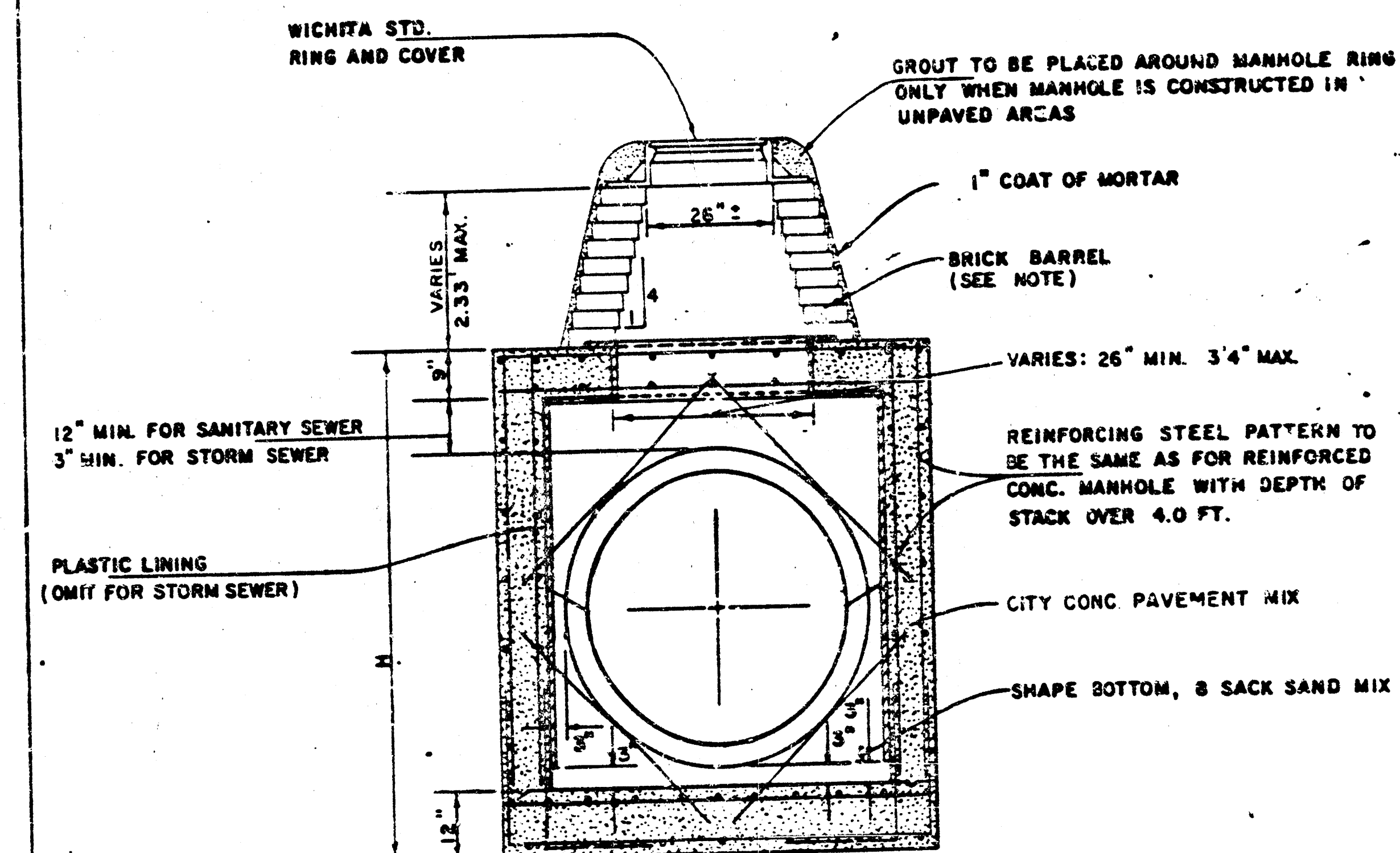


REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: OVER 4.0'
SCALE 1" = 2'



REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 2.33' TO 4.0'
SCALE 1" = 2'

NOTE:
BRICK BARRELS LESS THEN 15' DEEP SHALL HAVE 8" WALLS EXCEPT WHEN LOCATED WITHIN PUBLIC STREET OR ALLEY PAVEMENT THEN THE WALL SHALL BE 12". BRICK BARRELS MORE THEN 15' DEEP SHALL HAVE 12" WALLS. THE "L" AND "W" DIMENSIONS SHALL BE A MINIMUM OF 5' 6" FOR BRICK BARRELS WITH 8" WALLS AND 6' 2" FOR BRICK BARRELS WITH 12" WALLS WHEN THE BRICK BARRELS ARE OVER 4 FT. IN HEIGHT.



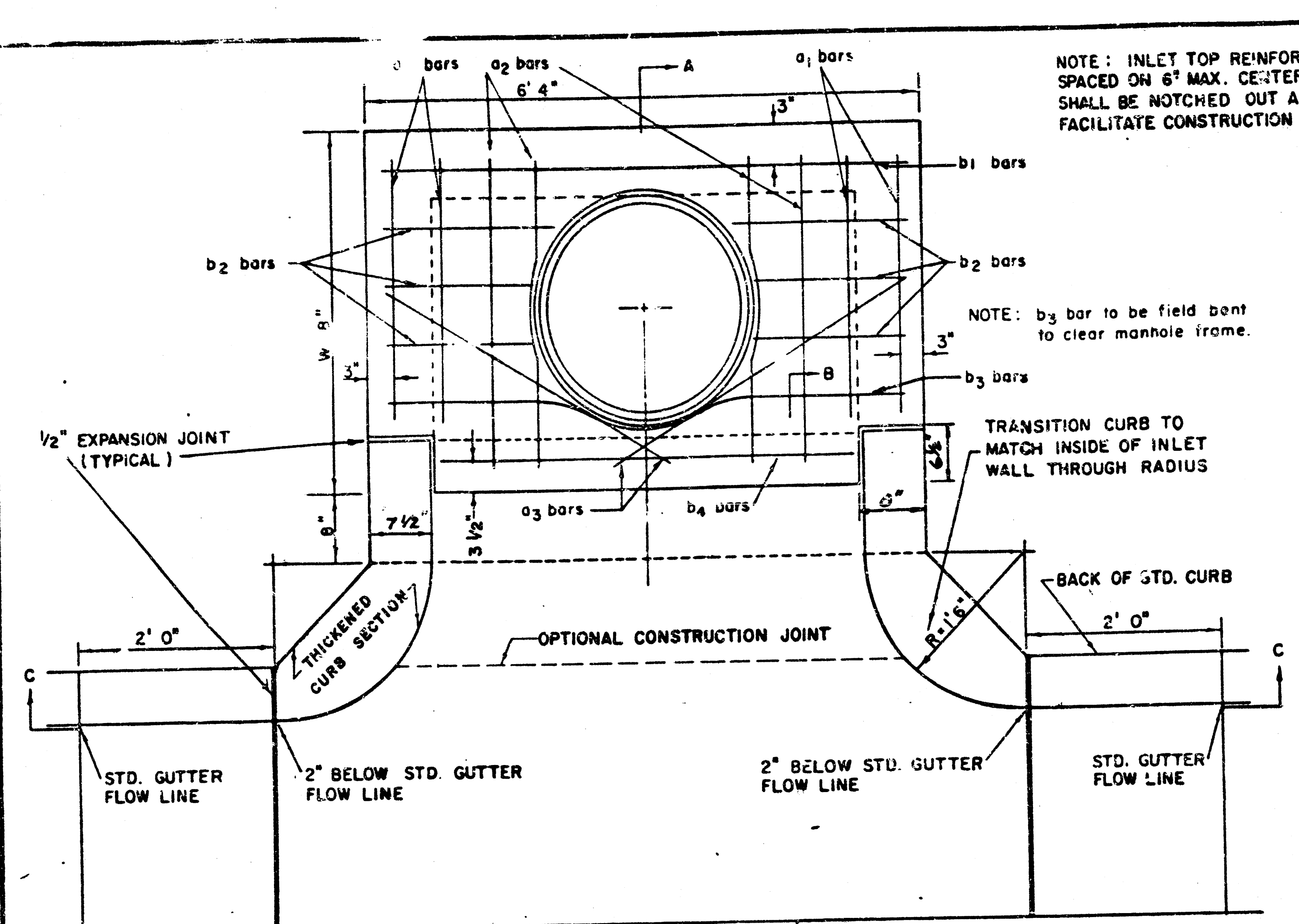
REINFORCED CONCRETE MANHOLE
DEPTH OF STACK: 0' TO 2.33'
SCALE 1" = 2'

STANDARD DETAILS
REINFORCED CONCRETE MANHOLES

CITY OF WICHITA

FEBRUARY 1984

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NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

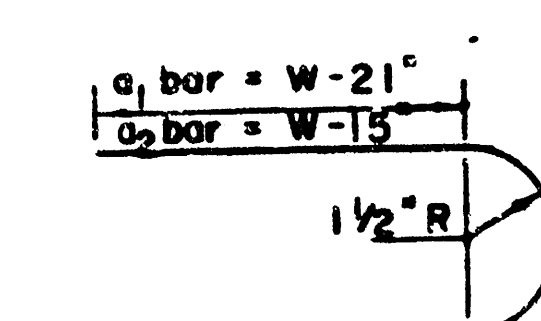
PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

NOTE: b3 bar to be field bent to clear manhole frame.

TRANSITION CURB TO MATCH INSIDE OF INLET WALL THROUGH RADIUS

BACK OF STD. CURB

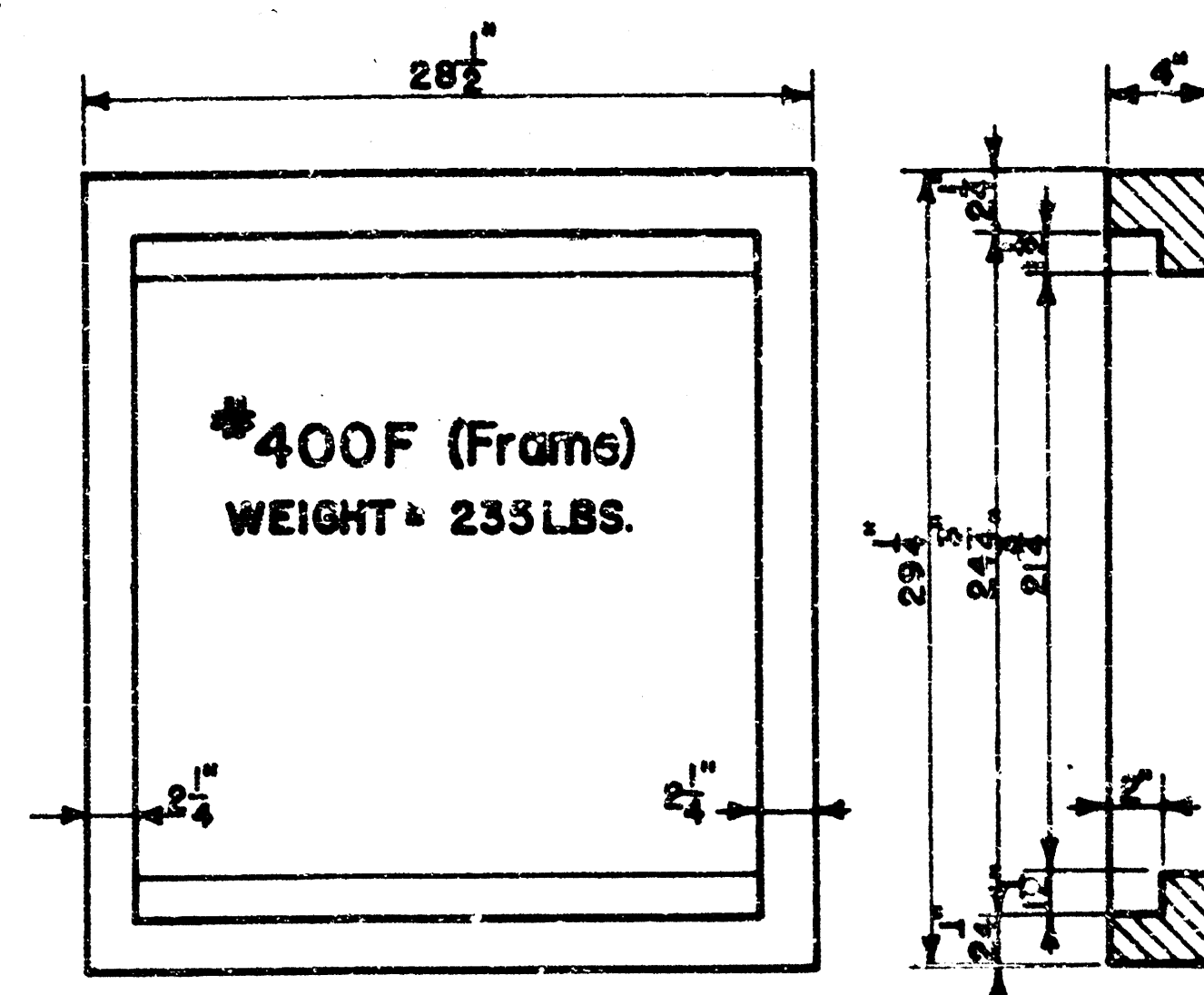


BENDING DIAGM

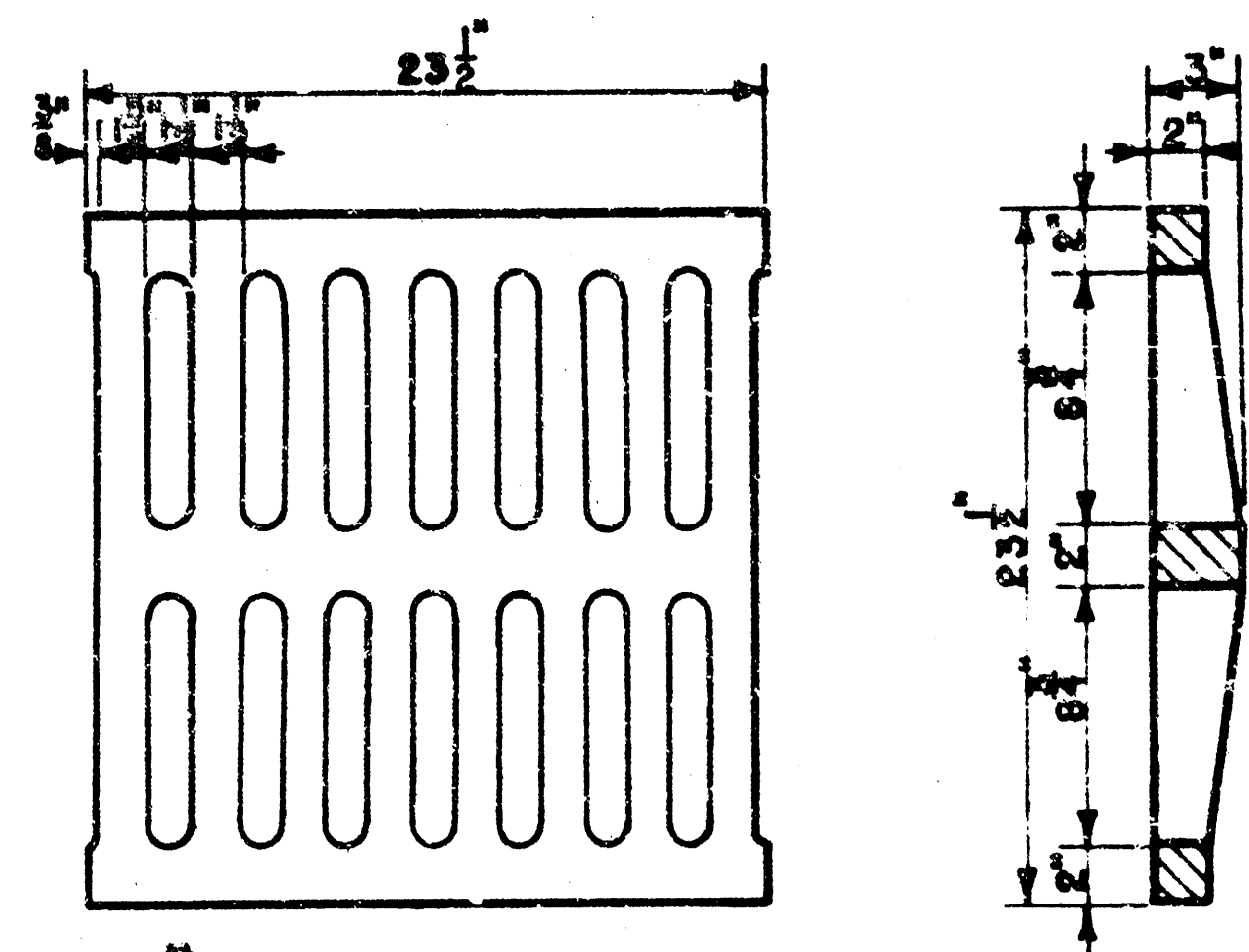
STEEL SCHEDULE

STEEL SCHEDULE												
BAR	a ₁	a ₂	a ₃	b ₁				b ₂	b ₃	b ₄	WT. LBS.	
				W=4'4"	W=5'4"	W=6'4"	W=7'4"	W=8'4"				
NUMBER	4	4	2	1	3	5	7	9	6	1	1	
SIZE	"4	"4	"4	"4	"4	"4	"4	"4	"4	"4	"6	
LENGTH	W=4'4"	5'7"	6'7"	4'0"	6'1"	—	—	—	1'9"	6'2"	4'6"	60 ±
	W=5'4"	7'7"	8'7"	5'0"	6'1"	—	—	—	1'9"	6'2"	4'8"	81 ±
	W=6'4"	9'7"	10'7"	6'0"	—	—	6'1"	—	1'9"	6'2"	4'8"	101 ±
	W=7'4"	11'7"	12'7"	7'0"	—	—	6'1"	—	1'9"	6'2"	4'8"	121 ±
	W=8'4"	13'7"	14'7"	8'0"	—	—	—	6'1"	1'9"	6'2"	4'8"	141 ±

NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.

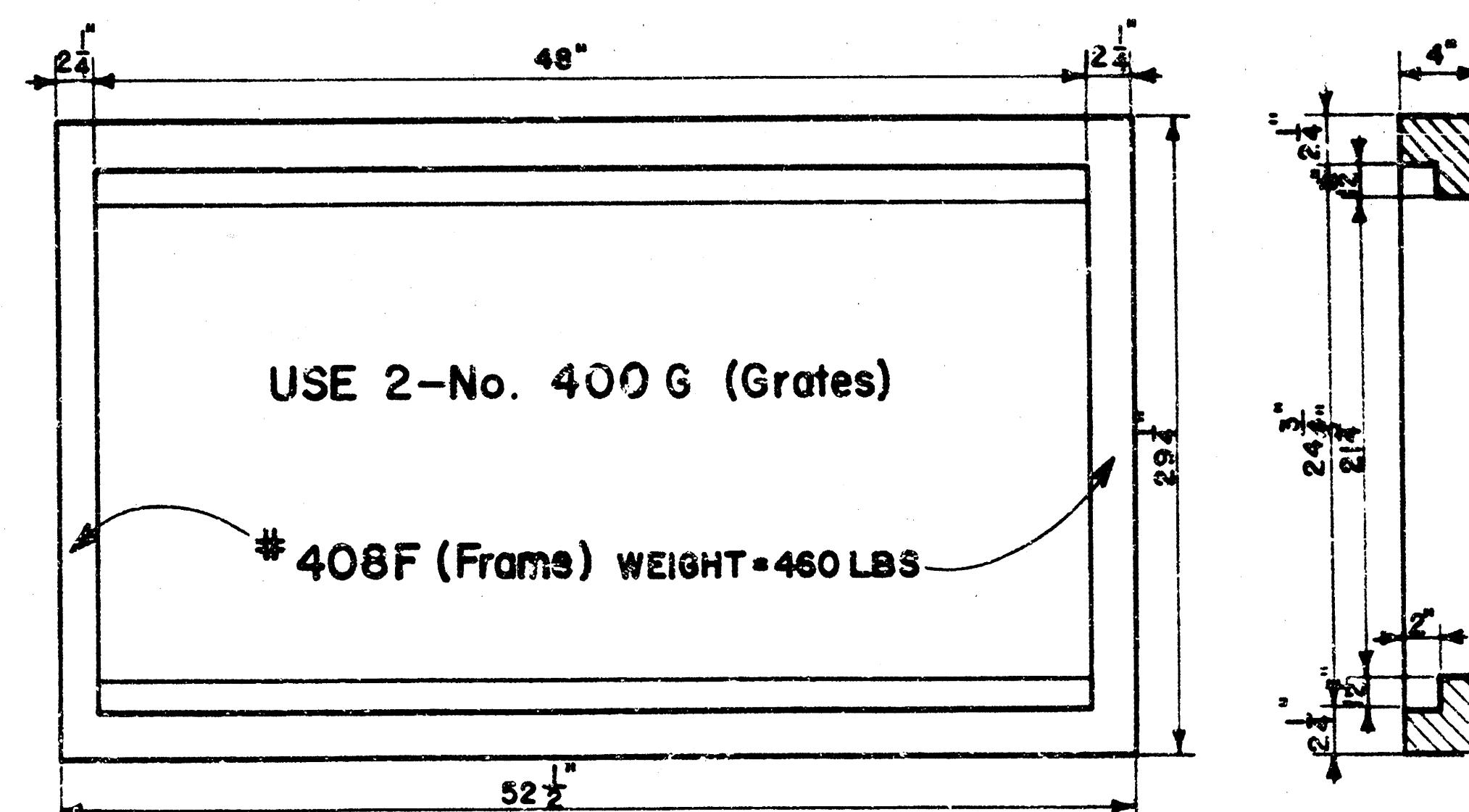


*400F (Frame)
WEIGHT = 235 LBS.



* 400G (Grate)
WEIGHT = 235 LBS

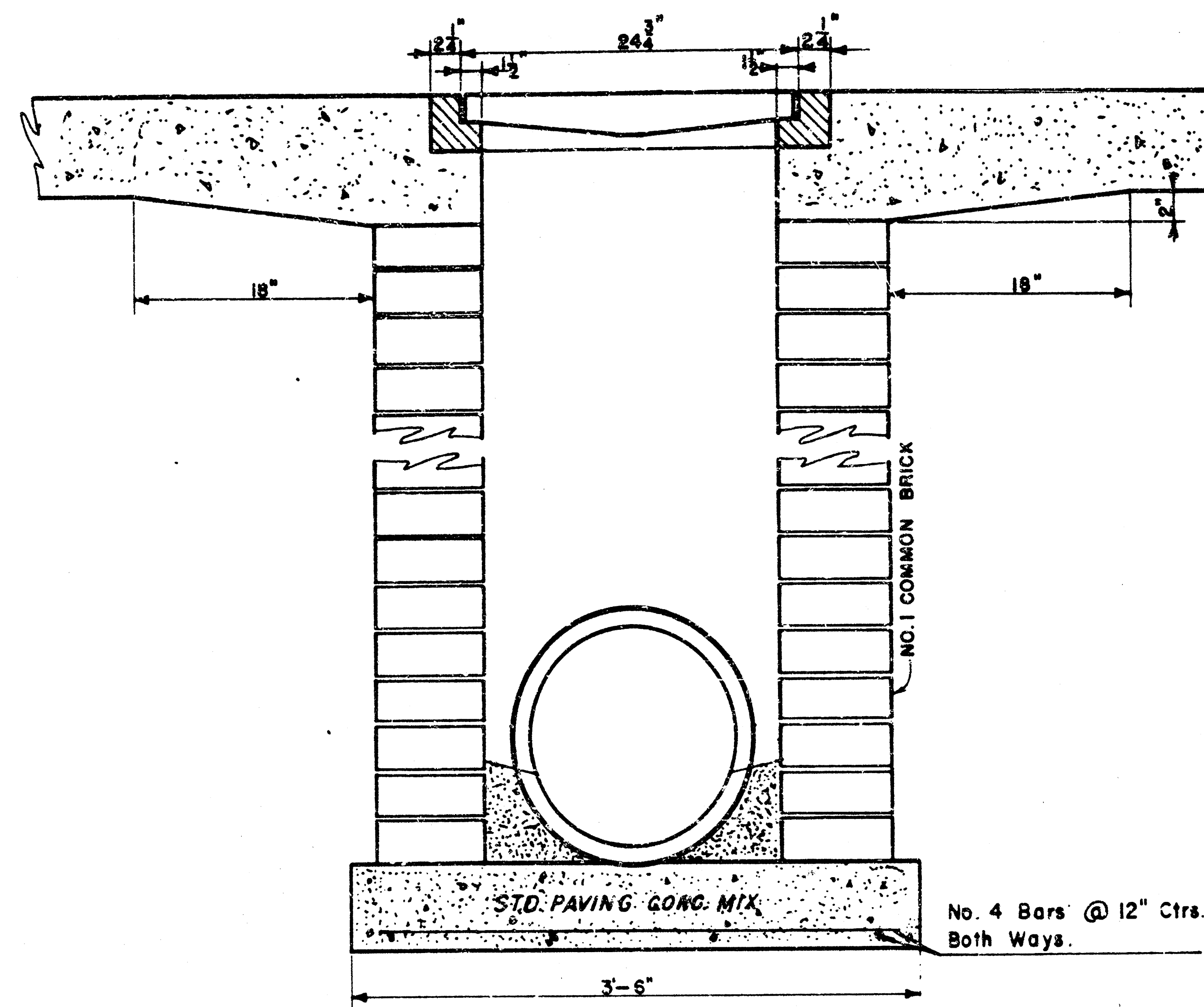
24"x24" Frame & Grate Detail



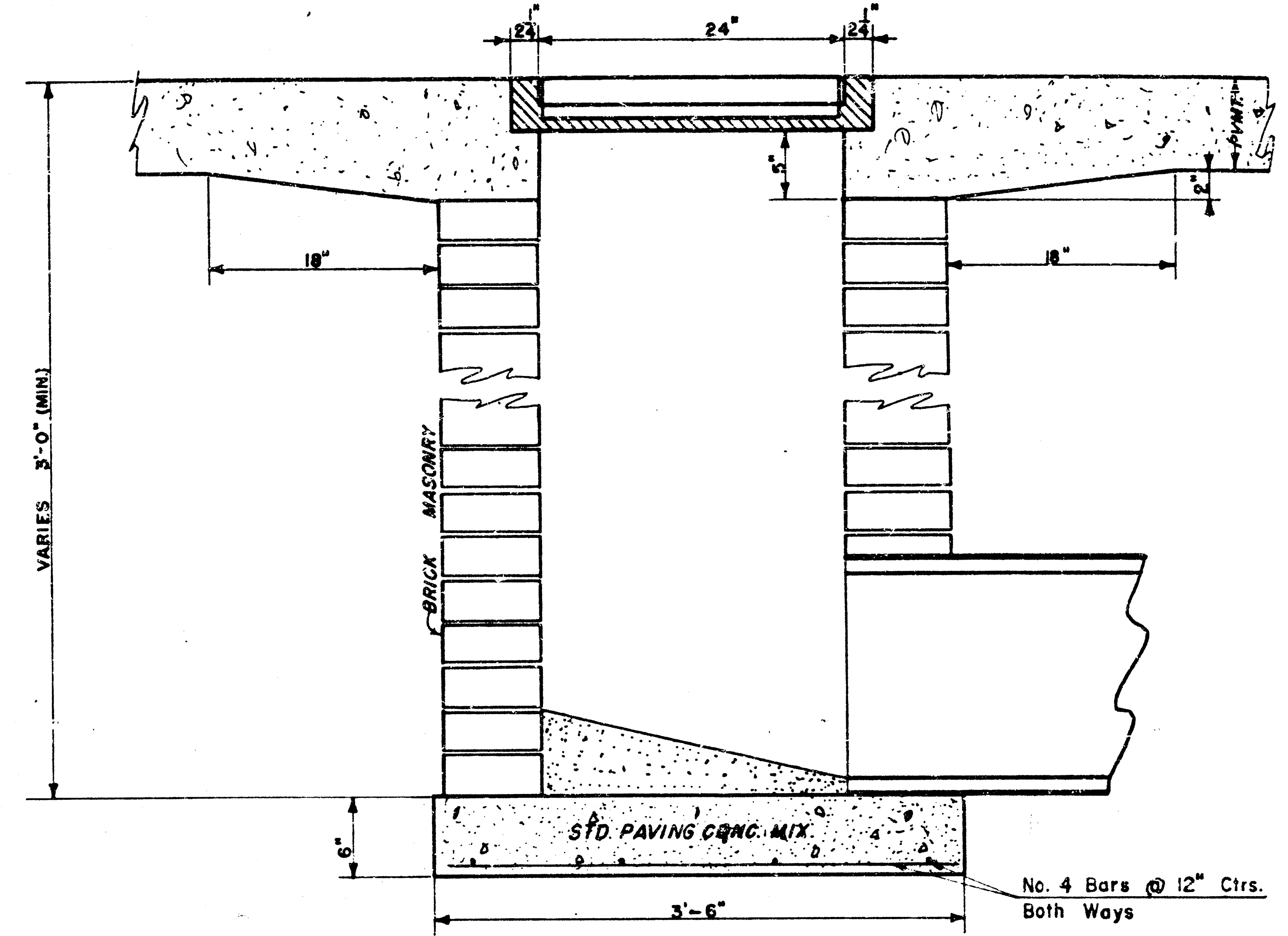
USE 2-No. 400G (Grates)

*408F (Frame) WEIGHT = 460 LBS

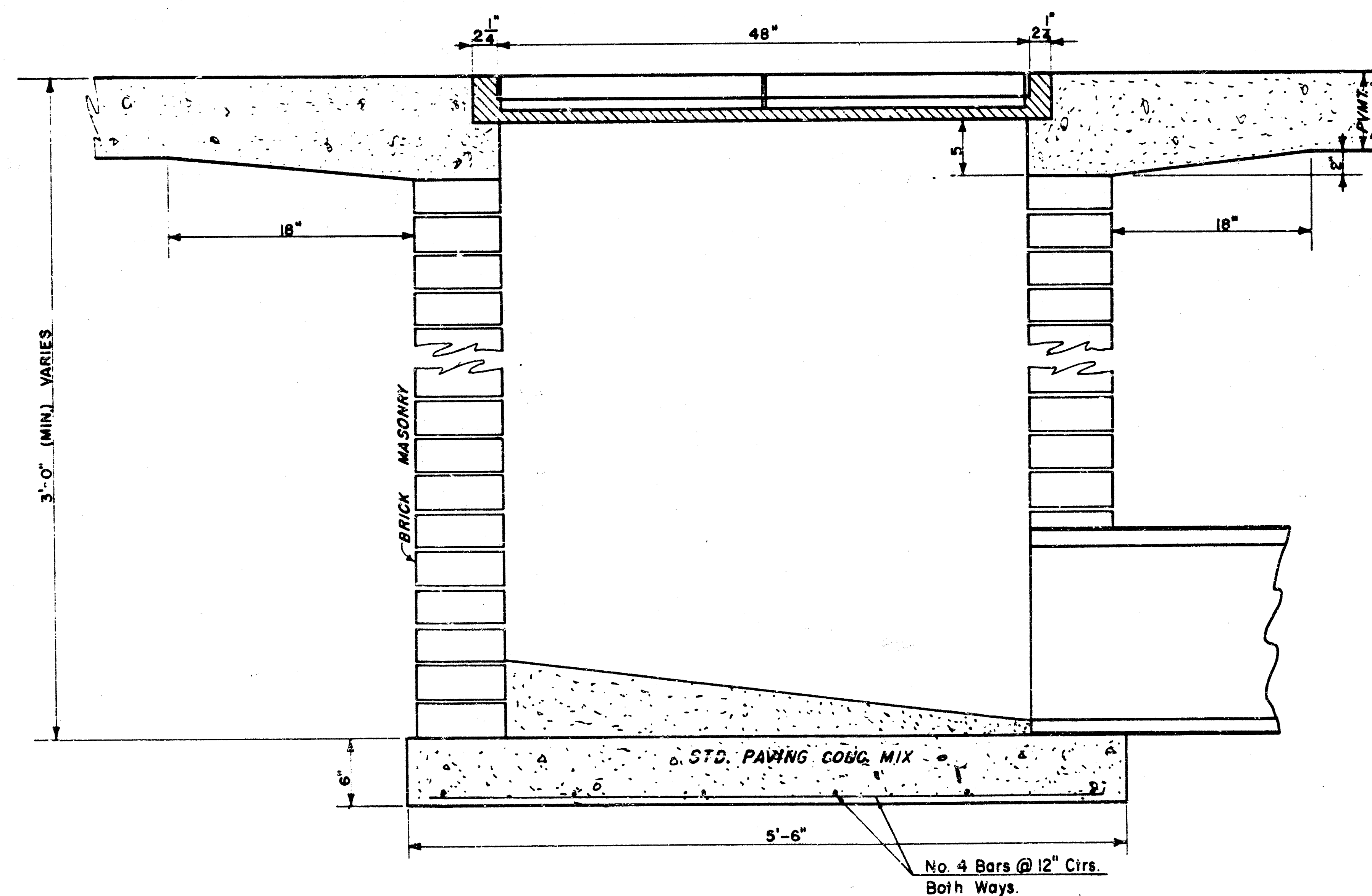
Double 24"x24" Frame Detail



No. 4 Bars @ 12" Ctrs.
Both Ways.



No. 4 Bars @ 12" Ctrs.
Both Ways



No. 4 Bars @ 12" Ctrs.
Both Ways.

DROP INLET DETAILS

M.E. Lindebak, City Engineer

City of Wichita, Kansas

Project: NORTHROCK BUSINESS PARK Ph2

Project No. 468-76-245-81623-000-000-001

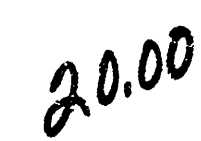
Date: January, 1987

Scale: 1-1/2" = 1'-0"

6/7

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AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS



Pat Kettler, Deputy
Pat Kettler

#521634

SW CORNER LOT 13
COMOTARA IND. PARK 2nd ADD.