

STREET IMPROVEMENTS

for

PINECREST STREET

From the N. Line Lot 5, UNIVERSITY GARDENS 2ND ADDN., and the
S. Line of Lot 2, WICHITA LAND ADDN. to the N. Line of LOOMAN.

PROJECT NUMBER

472-76-245- 81339-000-000-001**GENERAL NOTES**

No more than 3 drives 30 feet in width, or equivalent combinations thereof, are to be constructed with this project.

The Contractor shall be responsible for preserving property irons. The Contractor will 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.

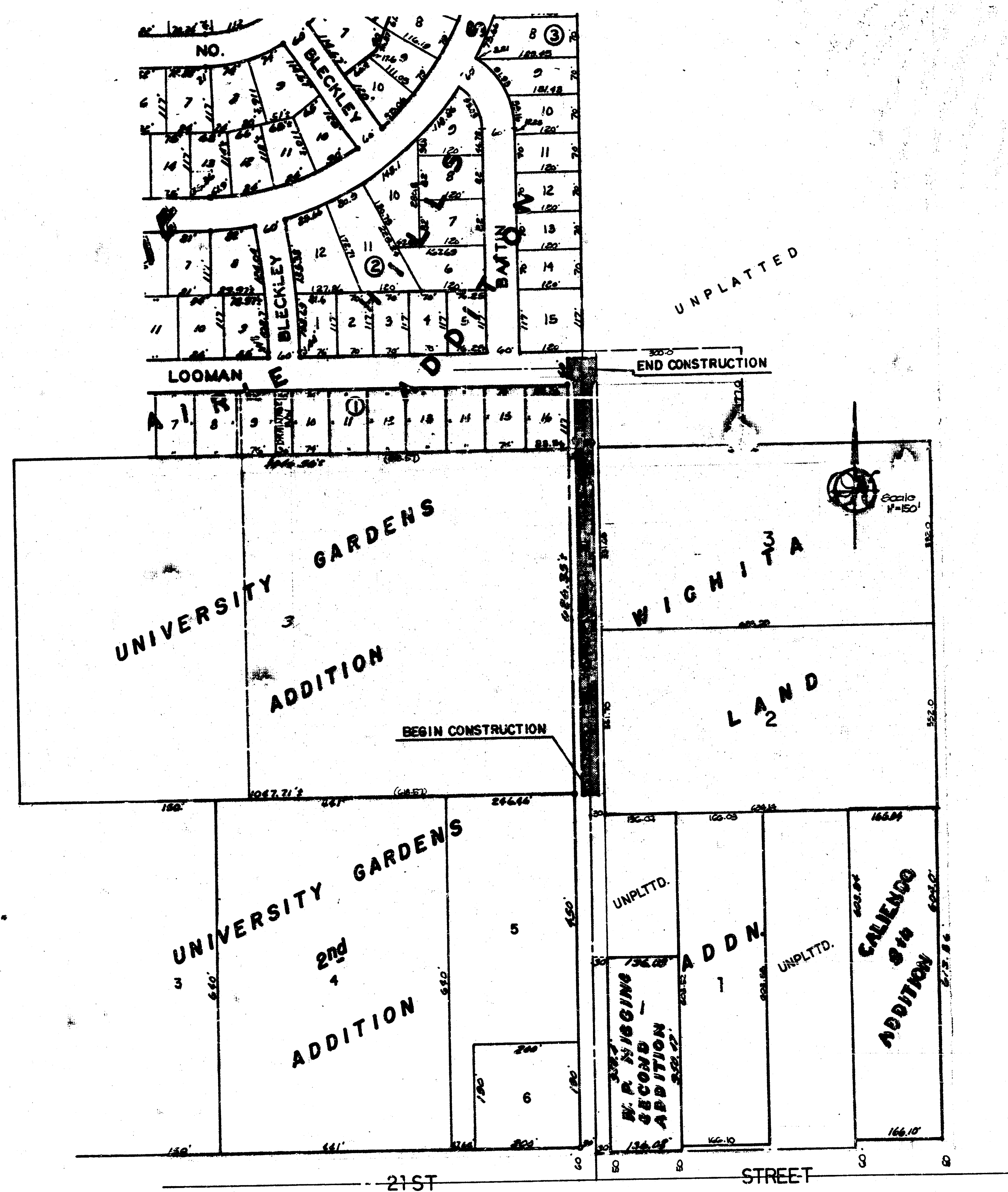
Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

The Contractor shall contact the owner(s) of Lot 16, Block 1, Prairie Hills Addition at least 14 days prior to beginning construction to allow the owner(s) the opportunity to remove and/or relocate the shed and fencing encroaching street right-of-way on his own.

Contractor shall contact Cablevision and K. G. & S. in order to make arrangements for the lowering or relocation of their underground lines prior to proceeding with construction.

BENCHMARKS

1. 33' east and 42' north of E 21st ST. and Oliver intersection. Elev. = 217.52 city datum
2. '1' cut in top of curb W. side Pinecrest, 10' south of N. Lot 5, University Gardens 2nd Addn. Elev. = 207.03
3. N. Rim manhole, STA. 3+165, 20' rt. Elev. = 192.15
4. N. Rim manhole, STA. 4+130, 20' rt. Elev. = 194.50
5. '1' cut in top of inlet, N. side Looman. Elev. = 195.51


☐ BENEFIT DISTRICT
CITY of WICHITA, KANSAS

MICHAEL E. LINDEBAK
CITY ENGINEER

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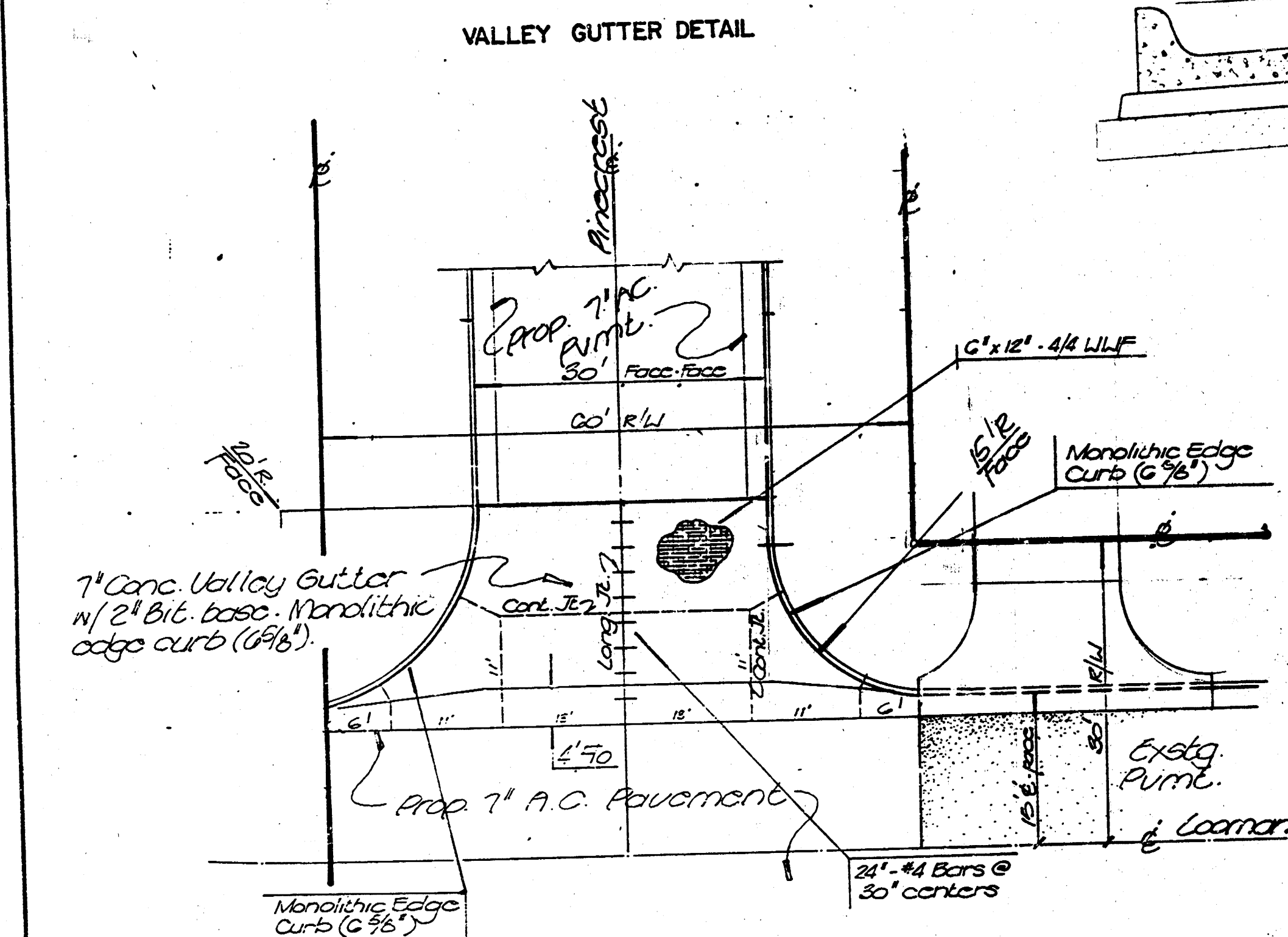
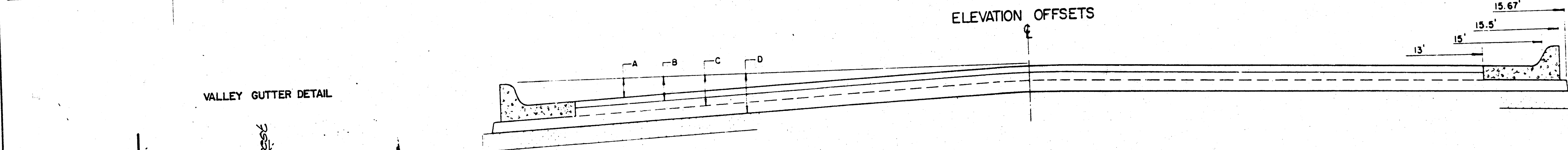
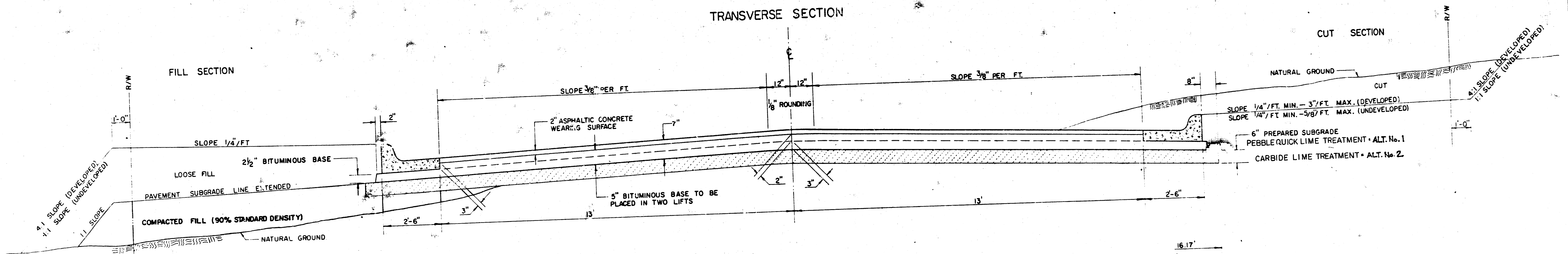
REVISED MANHOLE FROM TYPE 'B' OR 'C' TO 'A' SHALL
OCT 21-87
SHEET 6A HAS BEEN REMOVED.

TITLE SHEET

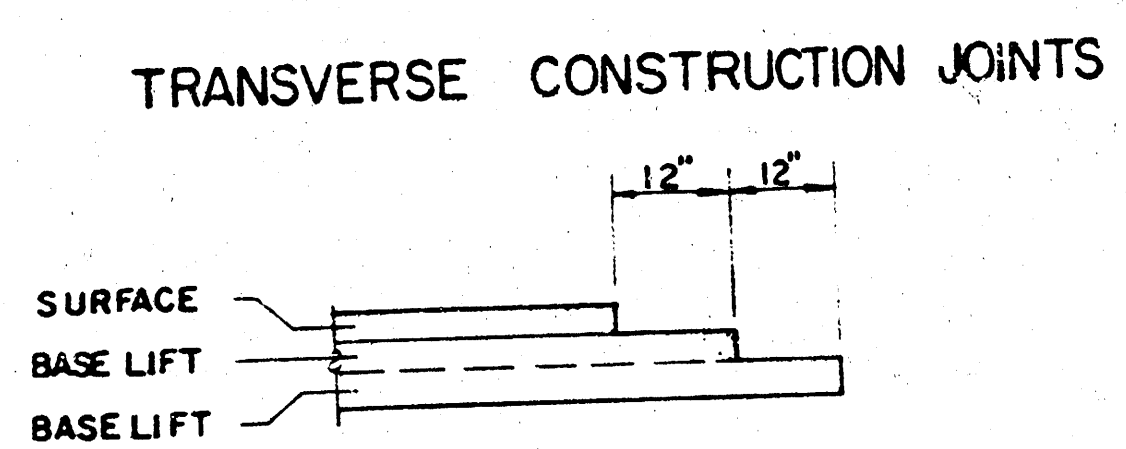
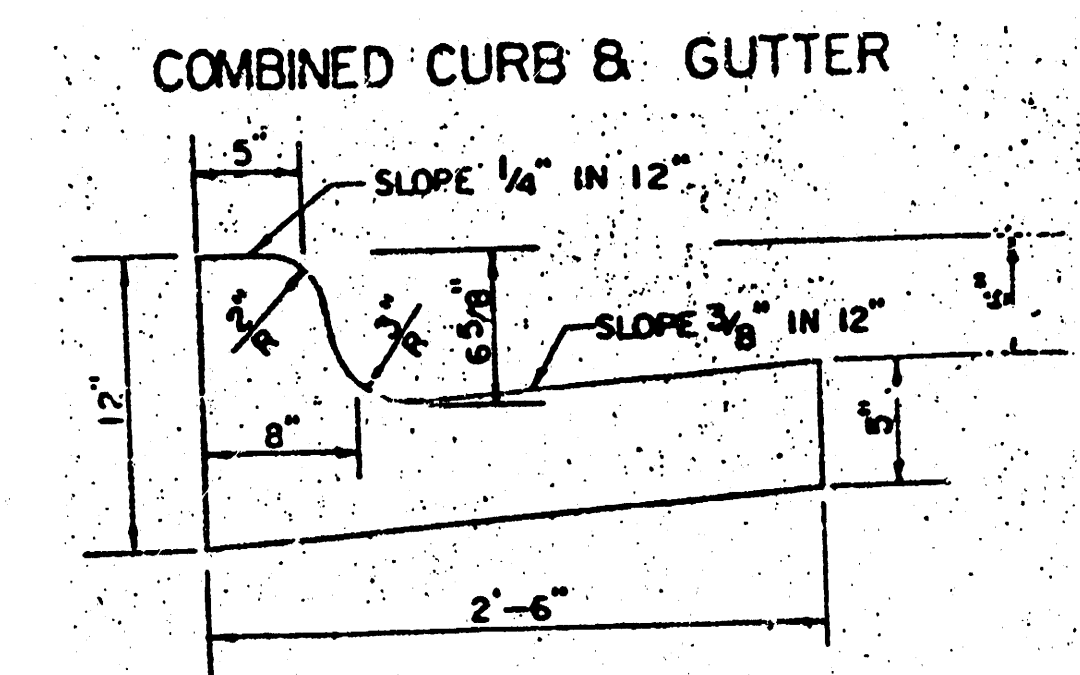
BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
310-263-7771 • 315 E. 10th • WICHITA, KANSAS 67211

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9

TYPICAL 3' PAVEMENT DETAILS



	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	13'	15'	15.5'	15.67'	16.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.10	0.14	0.21	0.27	0.32	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.27	0.31	0.38	0.44	0.49	0.56	0.63	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.44	0.49	0.57	0.64	0.70	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.69	0.73	0.80	0.87	0.93	1.01	1.08	1.12	1.19	1.21	1.21	1.23

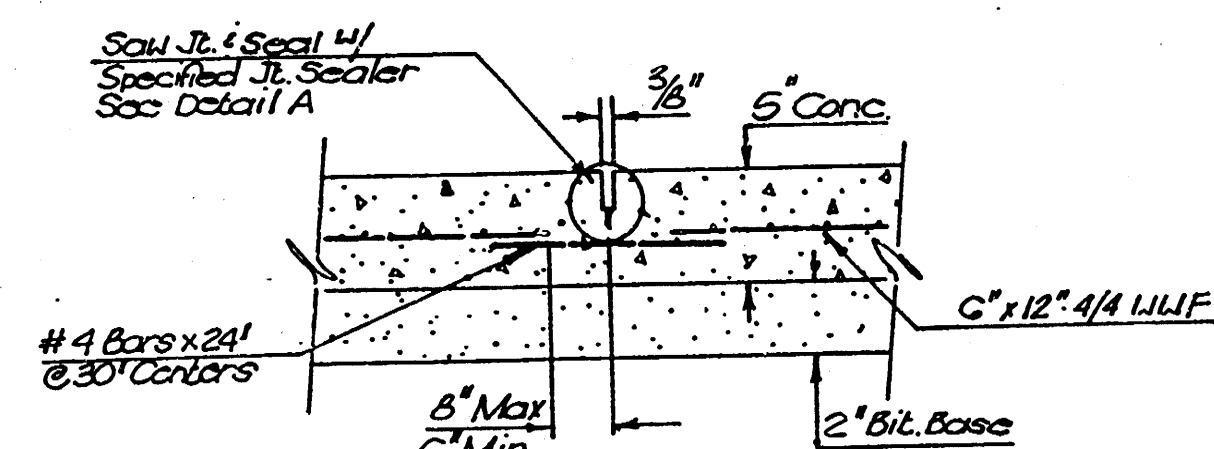


GENERAL NOTES

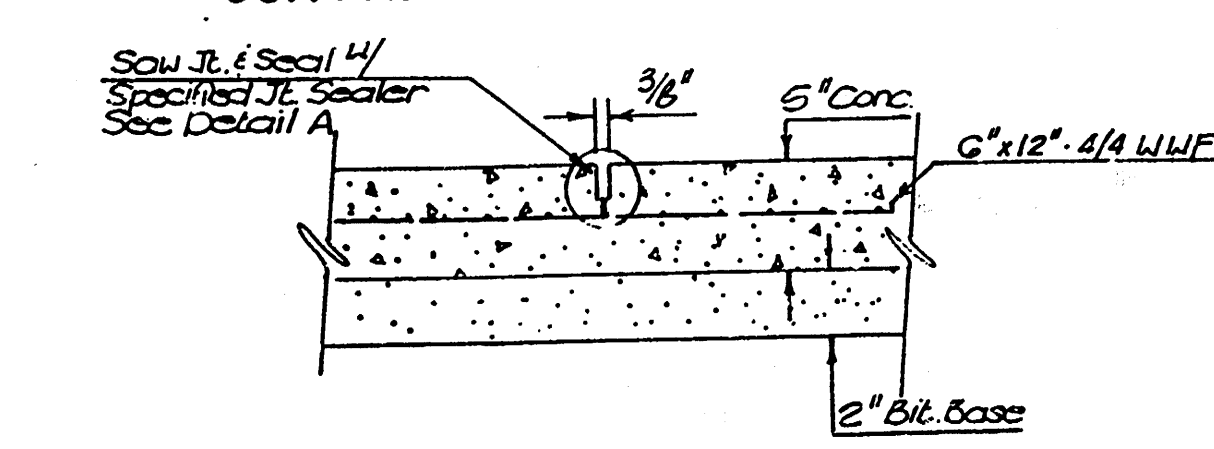
- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE UTILITY. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

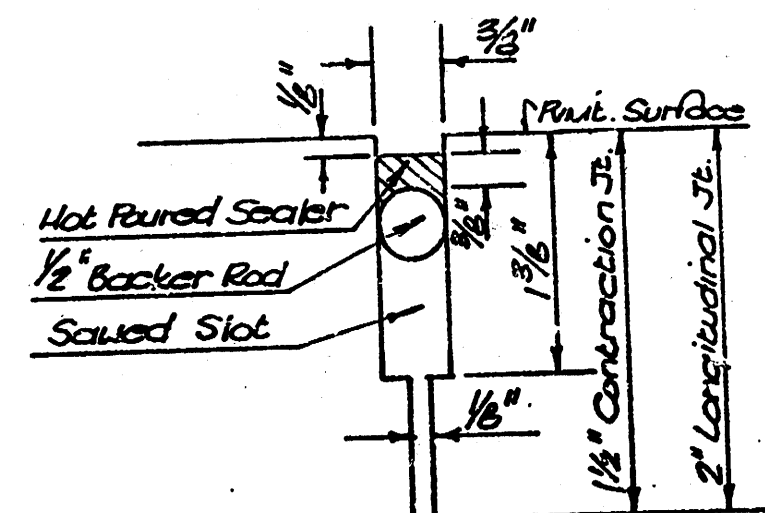
LONGITUDINAL JOINT DETAIL



CONTRACTION JOINT DETAIL



DETAIL A



PINECREST STREET

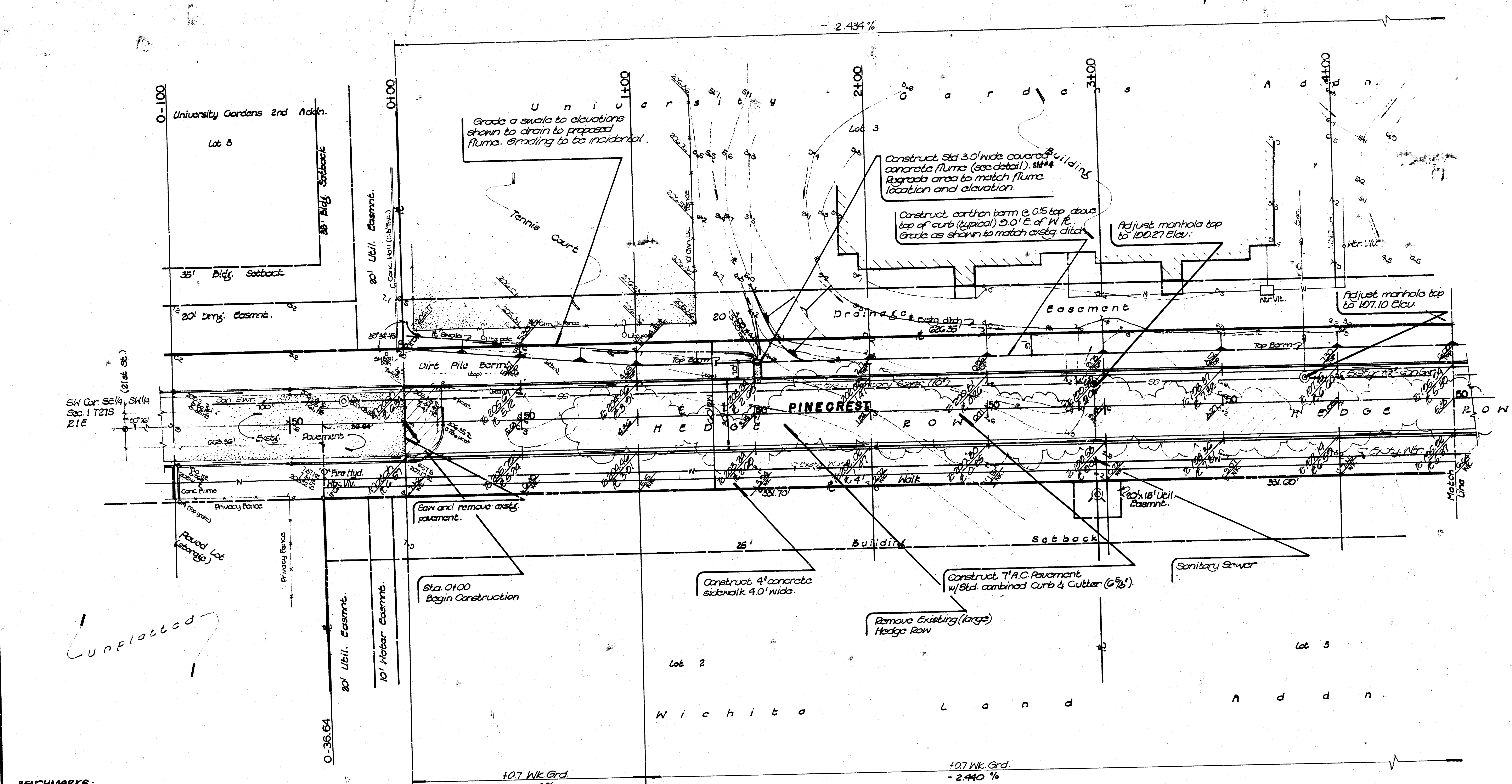
7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE

CITY OF WICHITA, KANSAS

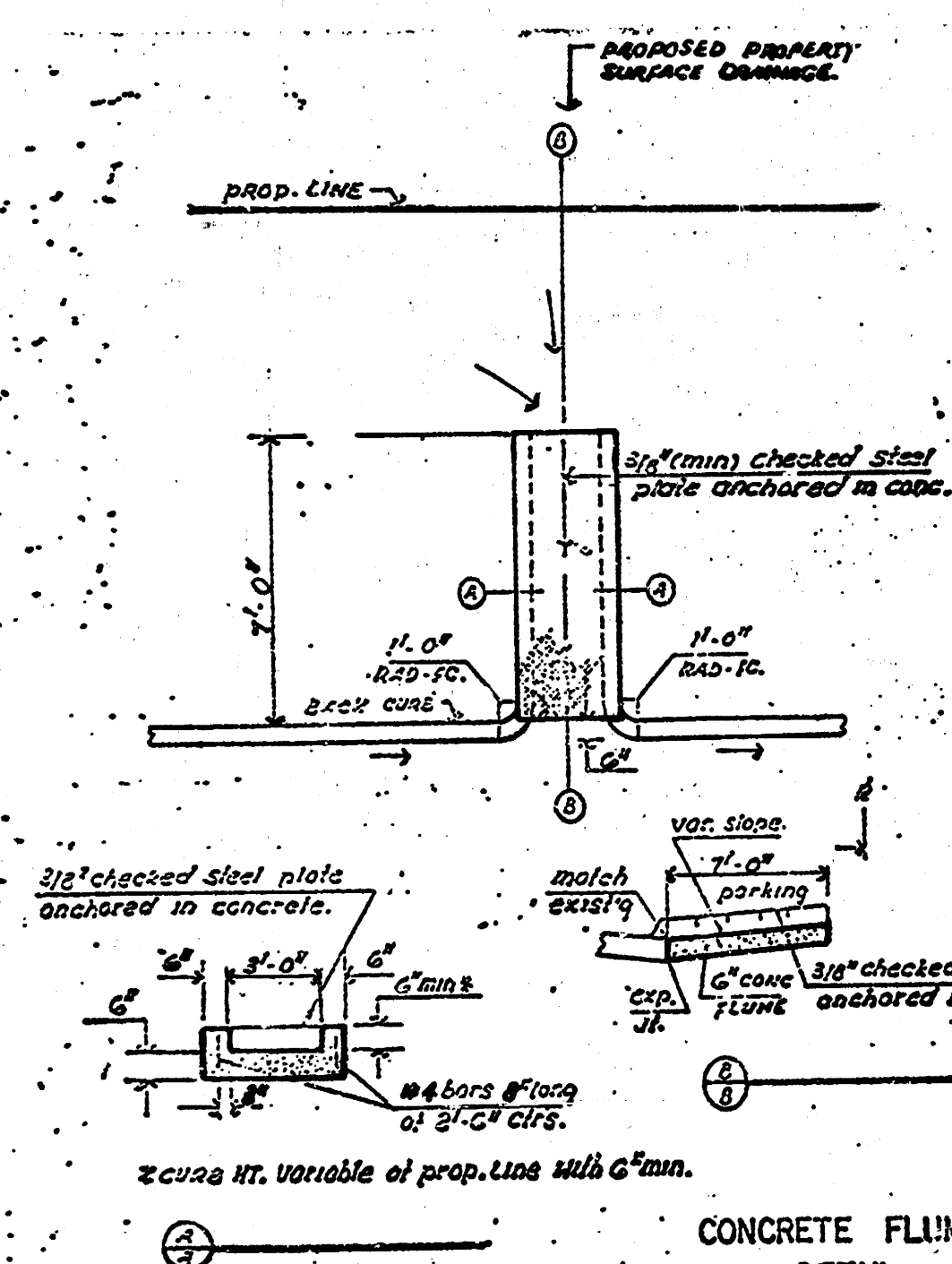
PROJECT NUMBER

472-76-245-61330-000-000-001

Scale
1"=20'



1. 33' west and 42' north of E. 21st St. and Oliver Intersection
Elev. 277.82
2. '0' out in top of curb, west side Proctor St, 10' S. of N.L. lot 5, University Gardens 2nd Addn.
Elev. = 207.05
3. N Rim M.H. Sta. 3+65, 20' rt.
Elev. = 220.15
4. N Rim M.H. Sta. 6+30, 20' rt.
Elev. = 194.50
5. '0' out in top of in let, N. side Leamon. Elev. = 186.51



THE CHECKERED STEEL PLATE SHALL HAVE A RAISED LUG PATTERN AND SHALL BE EITHER SHOP-OR FIELD PAINTED. THE ONE COAT OF ZINC RICH PRIMER SHALL BE APPLIED TO ALL OF THE SURFACES OF THE TOP AND BOTTOM. STEEL USED SHALL CONFORM WITH ASTM A-36, A-572 OR A-501.

COST OF ALL WORK INCLUDED IN THE BID PRICE FOR STD. COVERED FLUME CONSTRUCTION SHALL INCLUDE REMOVING AND RE-CONSTRUCTING EXISTING CURBS & GUTTER, COMPLETION OF SUBGRADE AND NECESSARY AREA GRADING.

COST OF STEEL PLATE & PAINTING TO BE INCLUDED IN THE PRICE FOR L.F. STD. CONC. COVERED FLUME CONSTR.

STEEL PLATE TO BE ANCHORED WITH
1/4" x 2 1/2" FLAT HEAD SCREWS WITH
EXPANSION ANCHOR ON 2'-0" MAX
CENTERS.

CONCRETE FLUME
DETAIL
(Thru Street Parking)

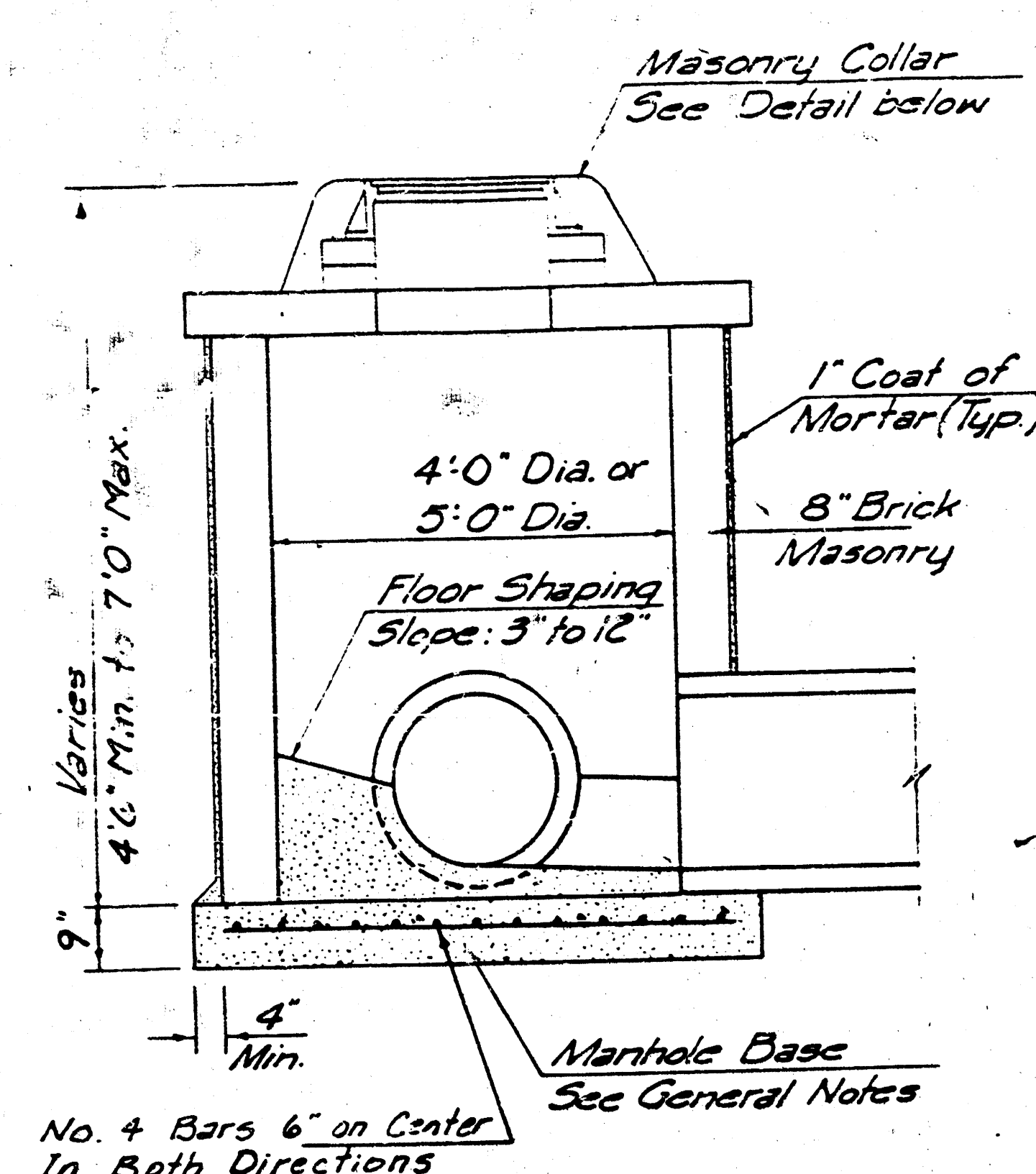
INTERSECTION QUANTITIES

S.V. " Concrete Pavement
1733 S.V. 2' " Asphaltic Conc. Pavement (S' - Bitum'nous Base)
1620 S.V. 2' " Bitum'nous Base
1640 S.V. Combining Curb & Gutter
1650 S.V. Nonalloyed Curb
S.F. 4" Wheel-hole Ramp
S.F. 4" Walk
C.V. Excavations
C.V. Deepened F#1
1 lb. Reinforcing Steel
222 S.V. Manipulations
" Lime Line or Cement
970 S.V. V.C. 2' " Concrete & 2' " Asphaltic Concrete Base

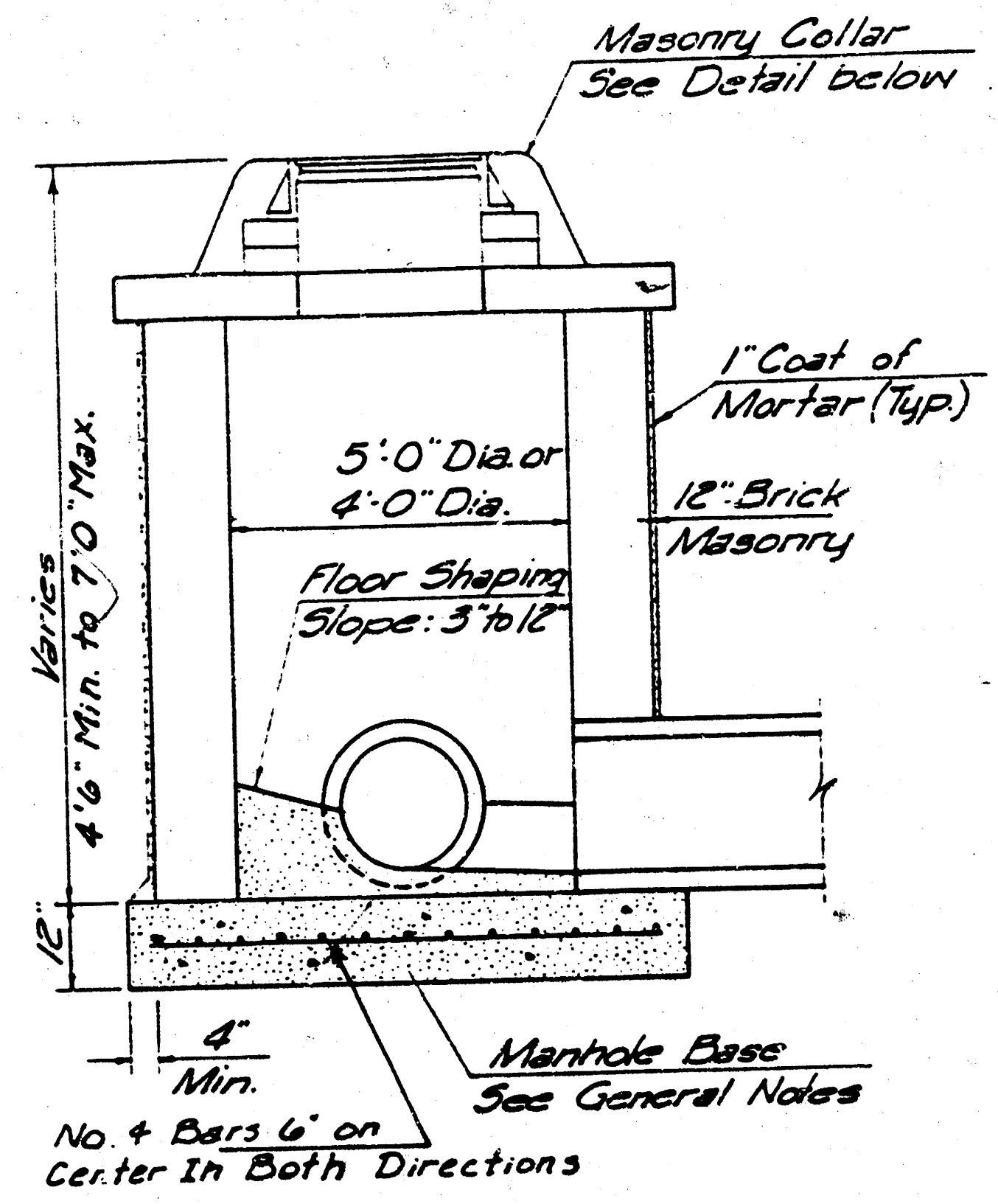
PINECREST

Project No.
472 76 245 81339 000 000 001

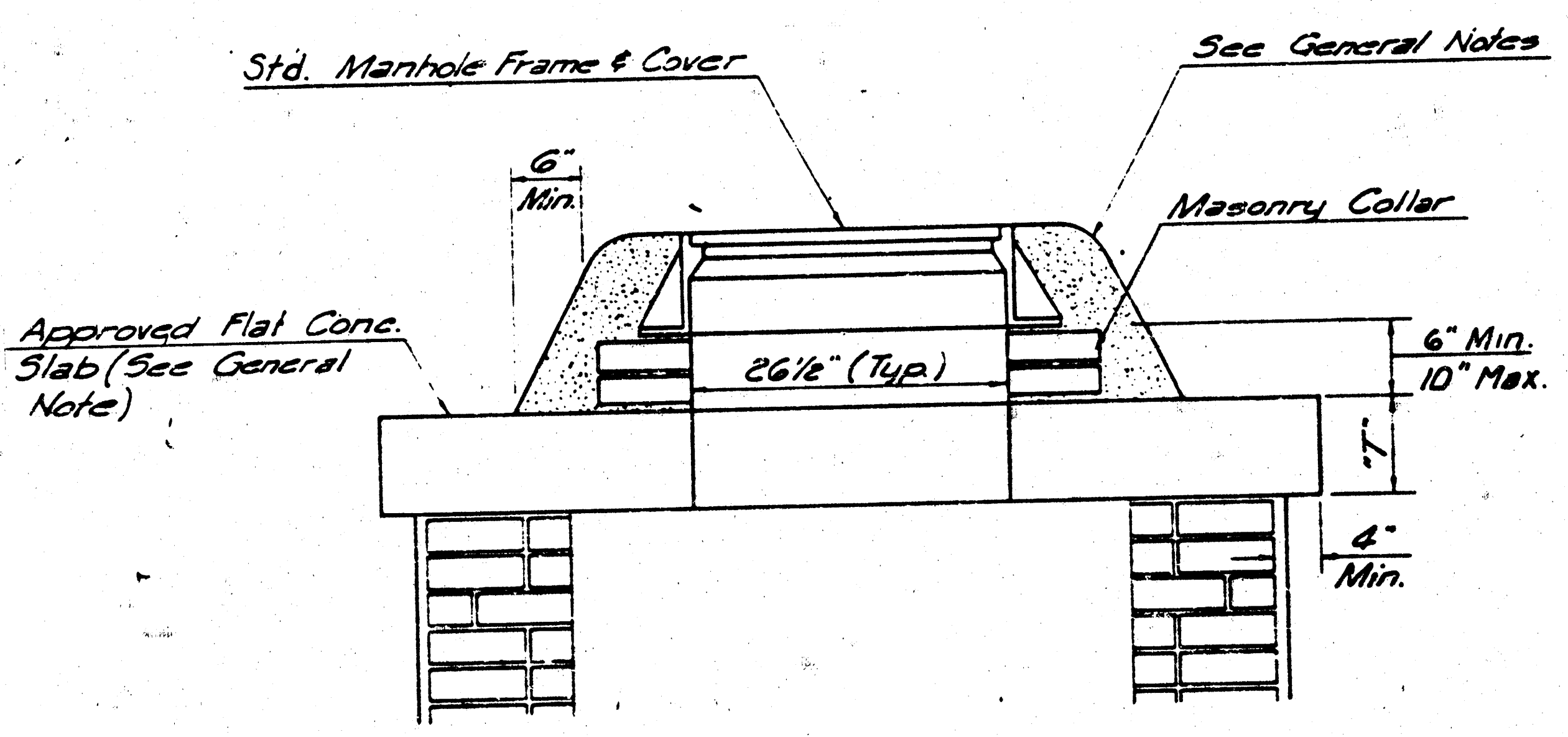
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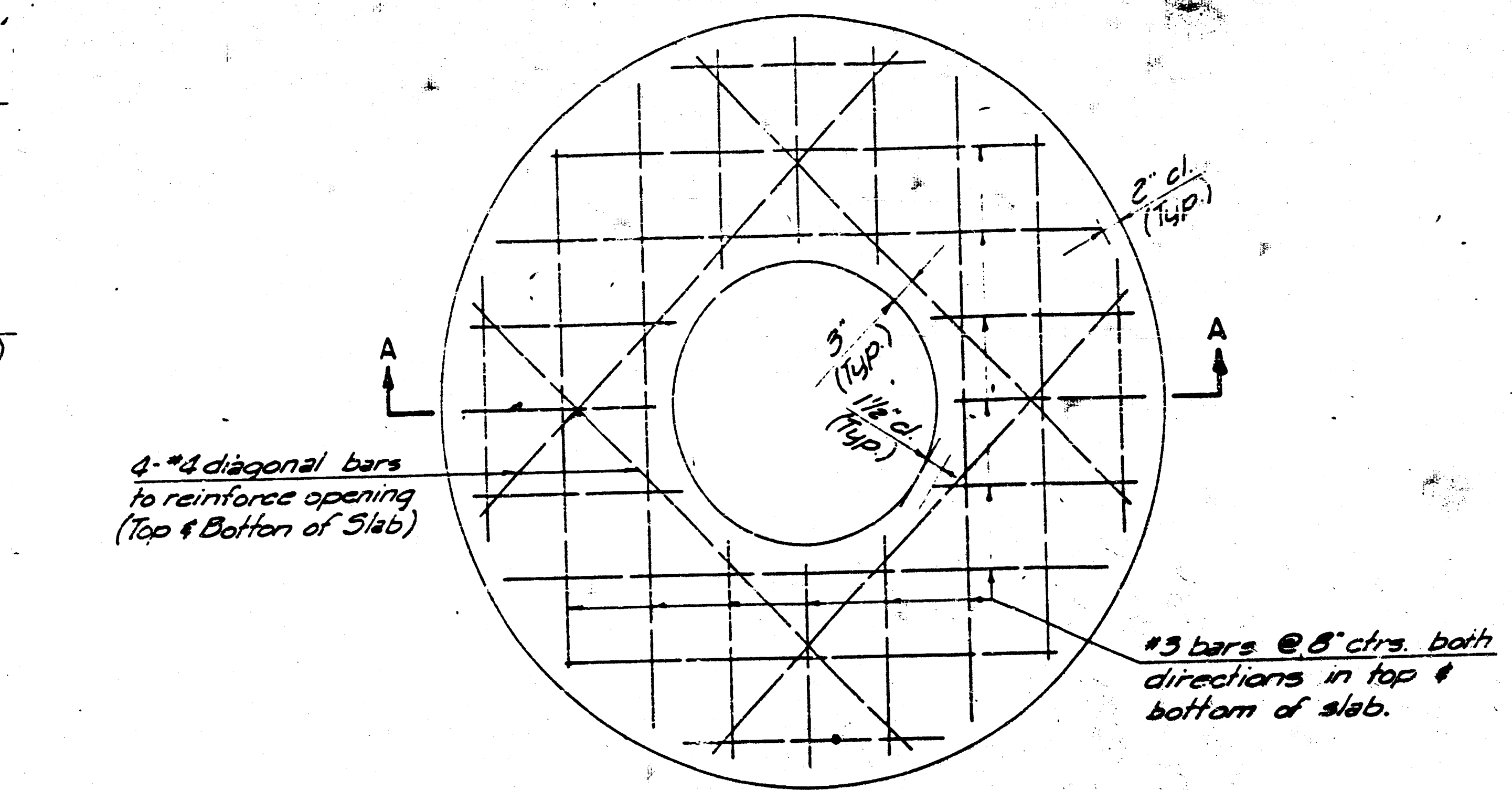
SHALLOW TYPE "A" MANHOLE



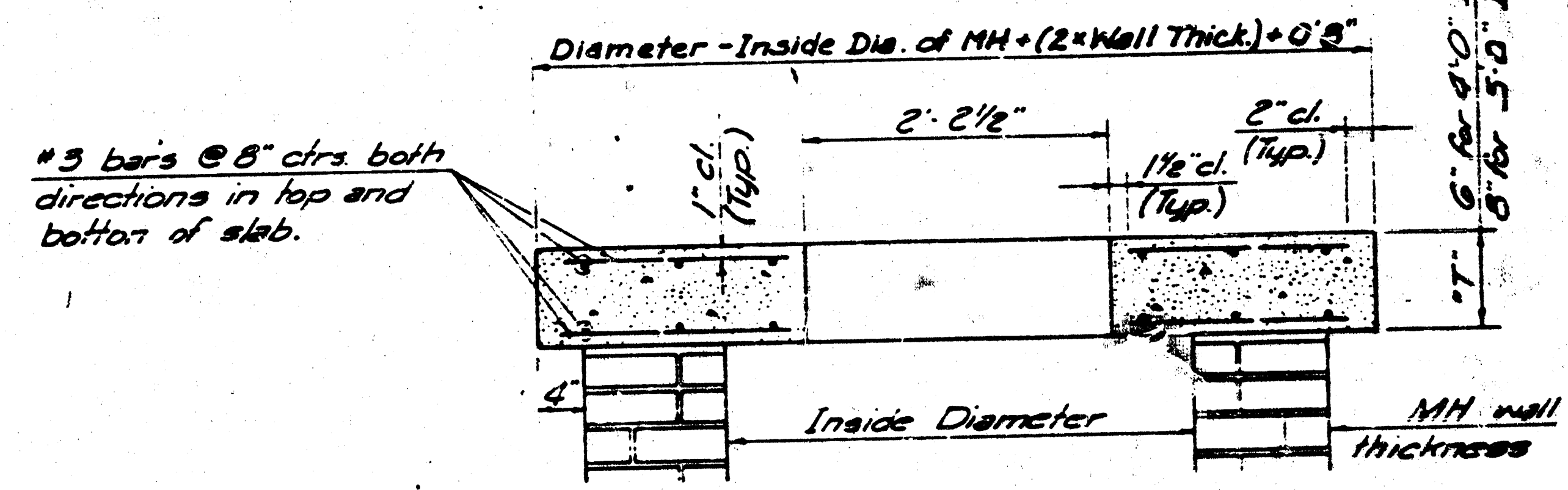
SHALLOW TYPE "B" MANHOLE



MASONRY COLLAR DETAIL



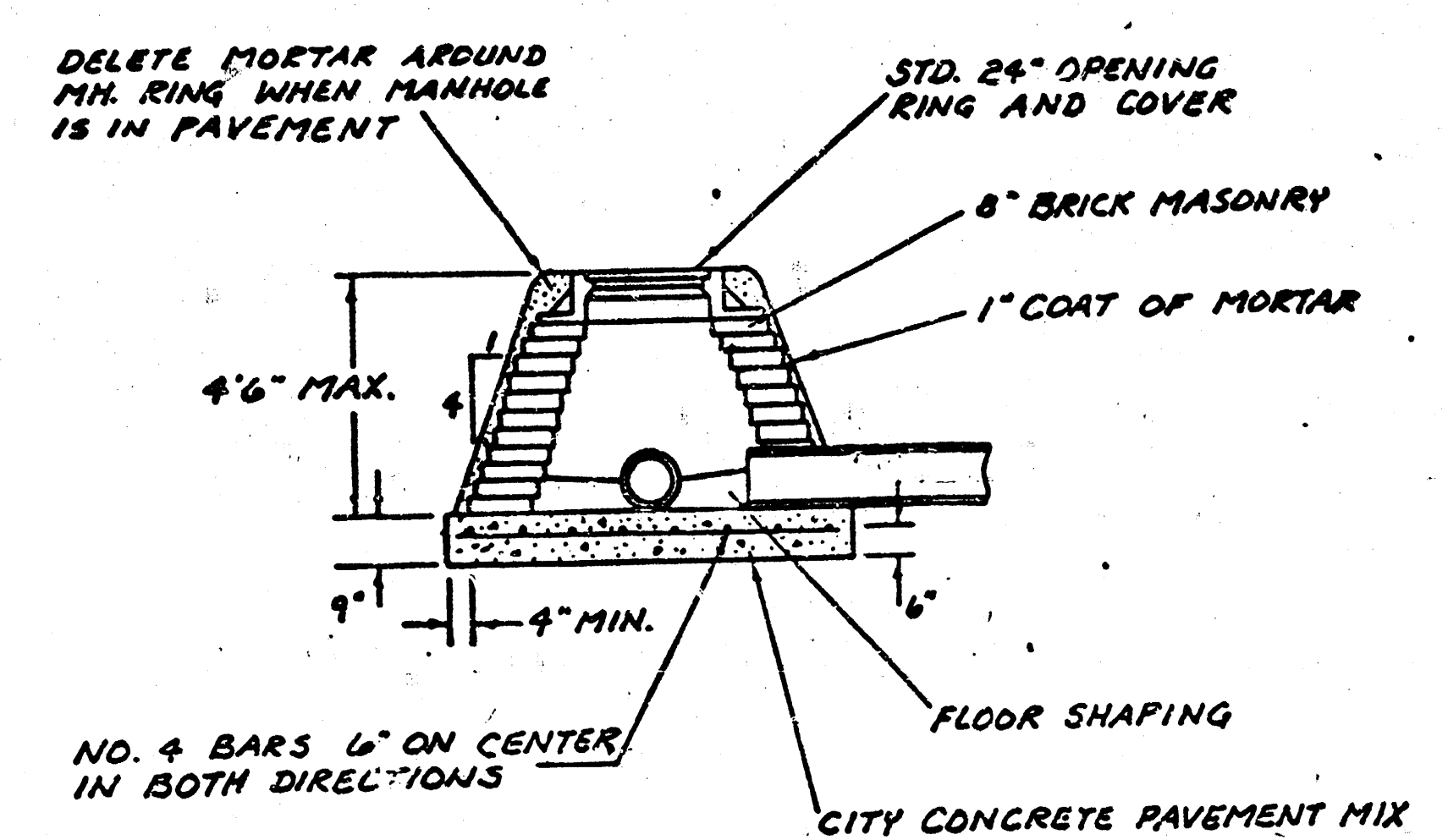
PLAN



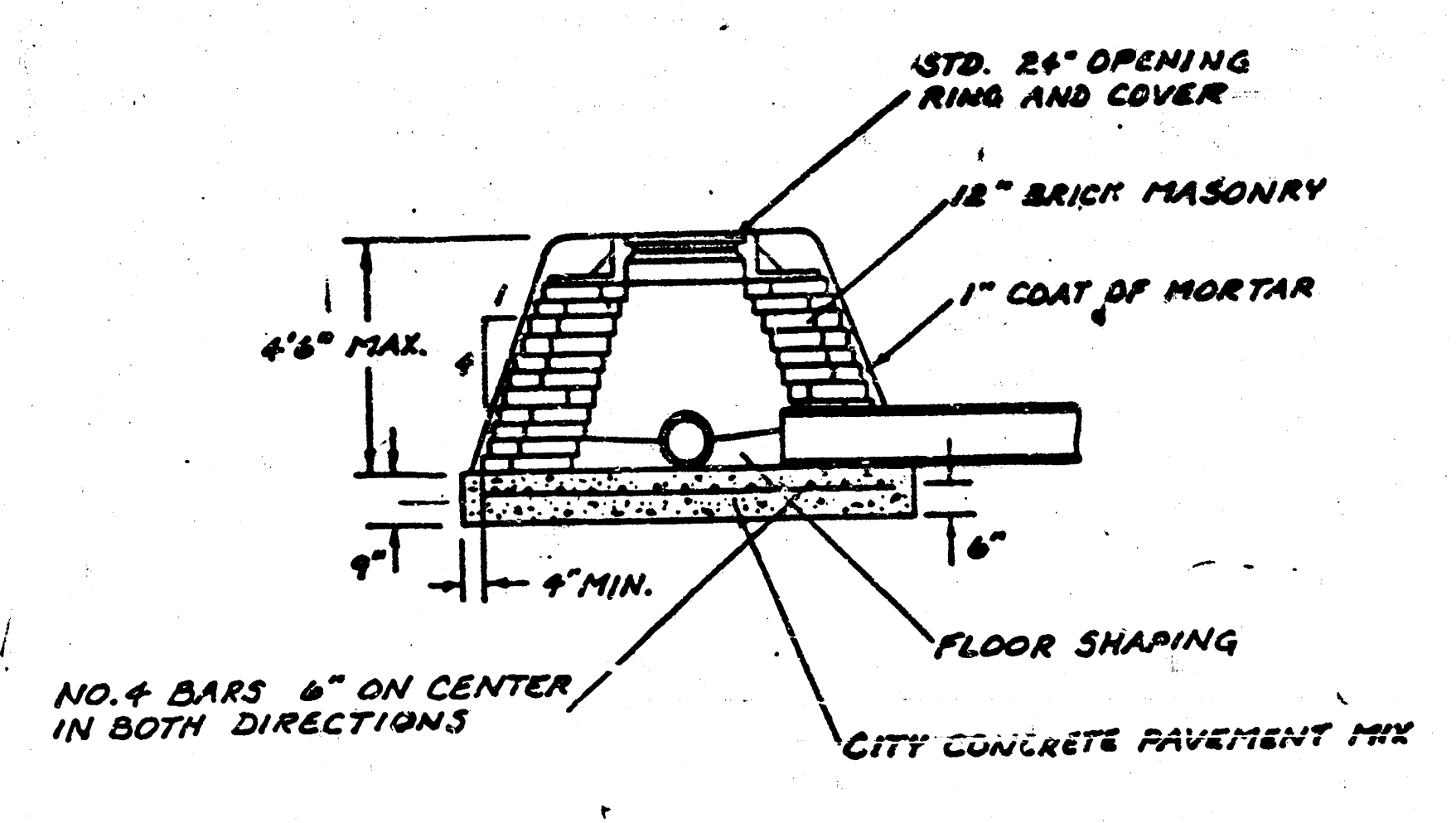
SECTION A-A

FLAT CONCRETE SLAB DETAILS

- GENERAL NOTES
1. MORTAR USED IN MASONRY CONSTRUCTION SHALL CONTAIN 8 BAGS OF CEMENT PER CUBIC YARD. CONCRETE USED IN MANHOLE BASES SHALL CONFORM TO THE REQUIREMENTS OF CONCRETE FOR CONCRETE PAVEMENT CONSTRUCTION AS SPECIFIED IN THE CITY STANDARD PAVING SPECIFICATIONS USING CITY LOW-CONCRETE CEMENT MIX WITHOUT AIR ENTRAINING ADMIXTURE. MORTAR SHALL BE PLACED AROUND THE MANHOLE RING AS SHOWN ON THE DRAWINGS WHEN MANHOLES ARE CONSTRUCTED IN UNPAVED AREAS. TYPE "A" SHALLOW MANHOLES CAN BE USED ON SEWERS WHEN THE MANHOLE IS NOT LOCATED WITHIN PUBLIC STREET PAVEMENT. MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE SMALLER THAN 24" SHALL HAVE AN INSIDE DIAMETER OF 4". MANHOLES CONSTRUCTED WHERE PIPE SIZES ARE 24" OR LARGER SHALL HAVE AN INSIDE DIAMETER OF 5". COMPLETED MANHOLE SHALL BE WITHOUT LEAKS AND WATER TIGHT.
 2. REINFORCING STEEL SHALL BE INSTALLED IN THE MANHOLE BASES AND SHALL CONSIST OF NO. 4 BARS PLACED ON 6" CENTERS IN BOTH DIRECTIONS. THE MANHOLE BASE REINFORCEMENT SHALL BE PLACED 6" ABOVE THE BOTTOM OF THE MANHOLE BASE. ALL COSTS FOR FURNISHING AND INSTALLING REINFORCING STEEL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
 3. THE FLOORS OF ALL MANHOLES SHALL BE SHAPED WITH FLOW CHANNELS SUCH THAT THE MANHOLES WILL BE SELF-CLEANING AND FREE OF AREAS WHERE SOLIDS COULD BE DEPOSITED AS SEWAGE FLOWS THROUGH THE MANHOLE FROM ALL INLET PIPES TO THE OUTLET PIPE. FLOW CHANNELS SHALL BE FORMED TO MATCH THE BOTTOM HALVES OF THE INFLOWING PIPES AND THE OUTFLOWING PIPE AS SHOWN BY THE DRAWINGS. MANHOLE FLOORS SHALL HAVE SLOPES OF 3 INCHES PER FOOT IN THE AREAS OUTSIDE OF THE FLOW CHANNELS SLOPED TOWARD THE FLOW CHANNELS. PIPES LAID THROUGH MANHOLES SHALL HAVE THE TOP HALF REMOVED TO REVEAL LINES FOR THE FULL INSIDE DIAMETER OF THE MANHOLE. MANHOLE FLOORS SHALL THEN BE SHAPED AROUND THE BOTTOM HALF OF THE PIPE WHICH FORMS THE FLOW CHANNEL.
 4. PIPES INSTALLED WITHIN THE EXCAVATION MADE FOR THE MANHOLE SHALL BE CRADLED WITH CONCRETE TO THE LIMITS OF THE MANHOLE EXCAVATION. WHEN CLAY PIPE IS USED, THE CRADLE SHALL EXTEND TO THE FIRST JOINT OUTSIDE THE MANHOLE. THE CRADLE SHALL BE TERMINATED AT THE CLAY PIPE JOINT IN A MANNER WHICH WILL MAINTAIN THE FLEXIBILITY OF THE JOINT. COST OF CRADLE WITHIN MANHOLE EXCAVATION OR TO CLAY PIPE JOINTS ADJACENT TO MANHOLE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE MANHOLE.
 5. MANHOLE COVER CASTINGS AND MANHOLE FRAME CASTINGS SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE STANDARD SPECIFICATIONS AND AS SHOWN IN THE STANDARD DETAIL DRAWINGS.
 6. THE CROOKS OF INFLOWING PIPES SHALL NEVER BE SET LOWER THAN THE CROWN OF THE OUTFLOWING PIPE.
 7. STANDARD SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE AND DIAMETER INDICATED. STANDARD SPECIAL SHALLOW MANHOLES TYPE "A" AND "B" SHALL BE PAID FOR AT THE UNIT PRICE BID PER EACH FOR THE TYPE INDICATED. ALL STANDARD SHALLOW MANHOLE DIAMETERS WILL BE 4' UNLESS INDICATED OTHERWISE.



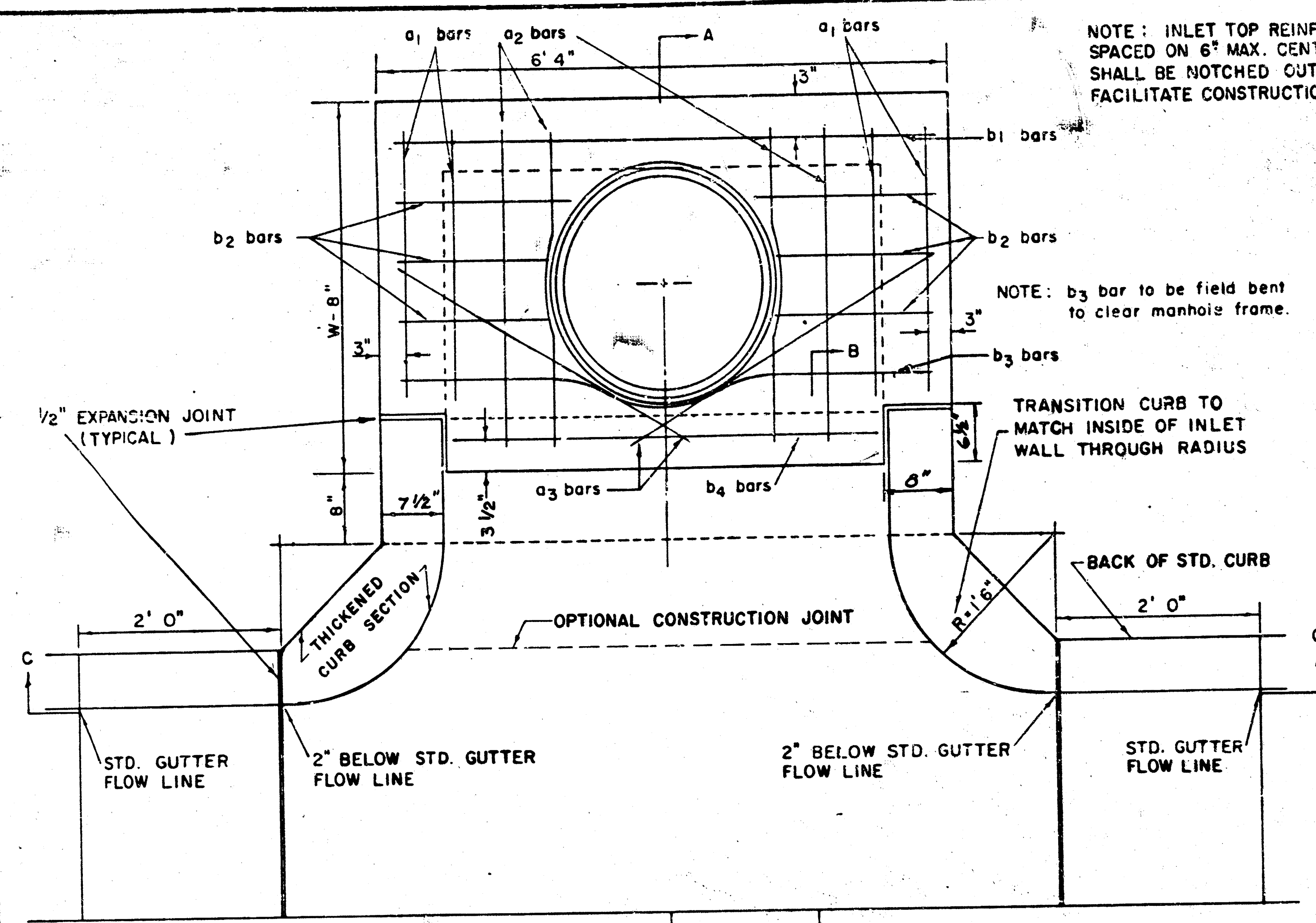
SPECIAL SHALLOW TYPE "A" MANHOLE



SPECIAL SHALLOW TYPE "B" MANHOLE

CITY OF WICHITA, KANSAS
STANDARD SHALLOW MANHOLES
TYPE "A" AND TYPE "B"

972 76 246 81335 000 000 001
Designed by _____ Checked by _____
Date _____ Job No. _____



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

PLAN

STEEL SCHEDULE

BAR	a ₁	a ₂	a ₃	b ₁	b ₂	b ₃	b ₄	WT. LBS.
NUMBER	4	4	2	1	3	5	7	9
SIZE	"4	"4	"4	"4	"4	"4	"4	"4
W=4'4"	5'7"	4'0"	6'1"	-	-	-	-	-
W=5'4"	7'7"	8'7"	5'0"	-	-	-	-	-
W=6'4"	9'7"	10'7"	6'0"	-	-	-	-	-
W=7'4"	11'7"	12'7"	7'0"	-	-	-	-	-
W=8'4"	13'7"	14'7"	8'0"	-	-	-	-	-

* NOTE: a₃ BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 4"	3' 8" x 6' 4" x 7' 1/2"	21" & SMALLER	0.38 ±
5' 4"	4' 8" x 6' 4" x 7' 1/2"	24" & 30"	0.51 ±
6' 4"	5' 8" x 6' 4" x 7' 1/2"	36" & 42"	0.64 ±
7' 4"	6' 8" x 6' 4" x 7' 1/2"	48" & 54"	0.77 ±
8' 4"	7' 8" x 6' 4" x 7' 1/2"	60" & 66"	0.90 ±

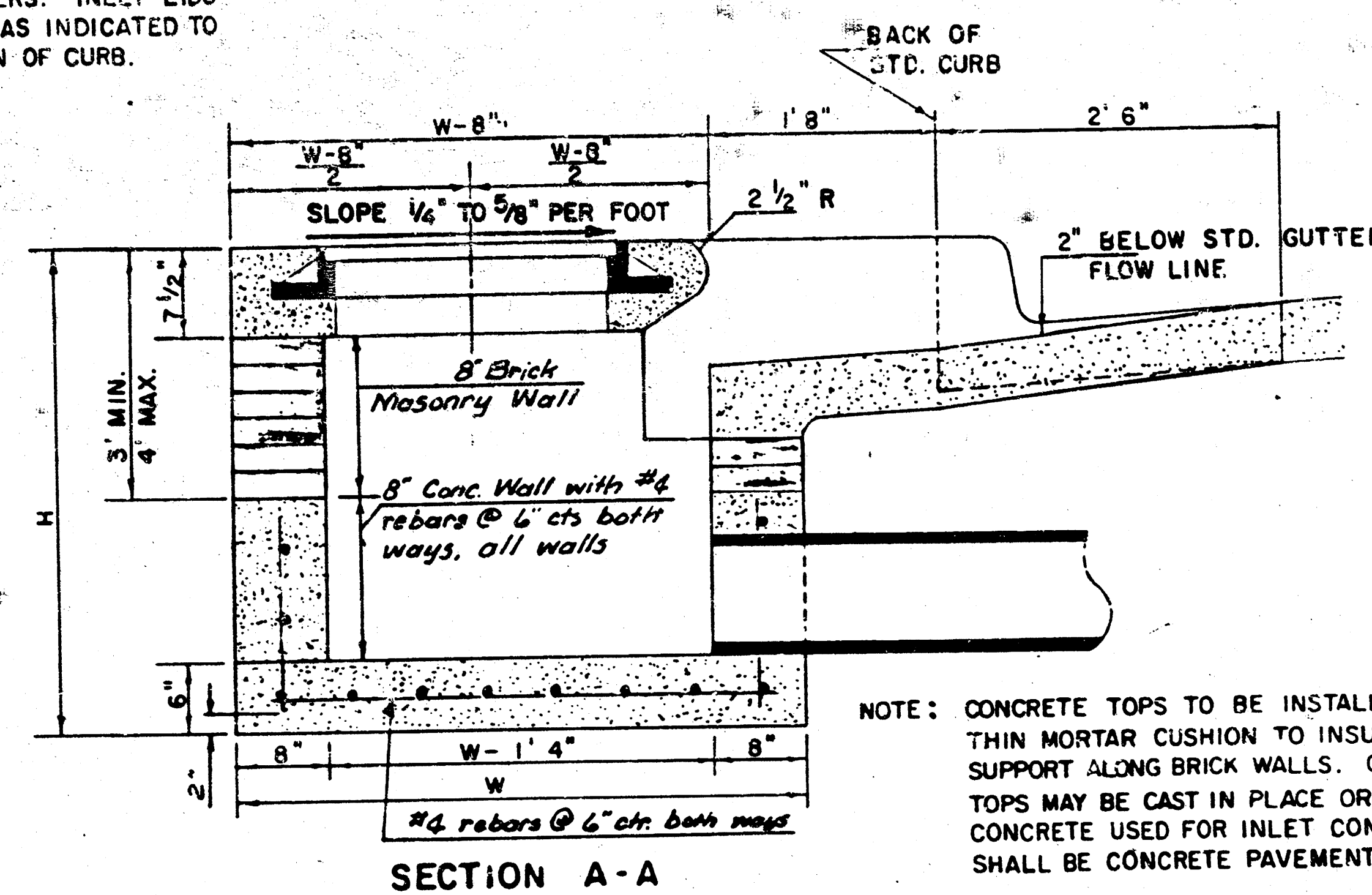
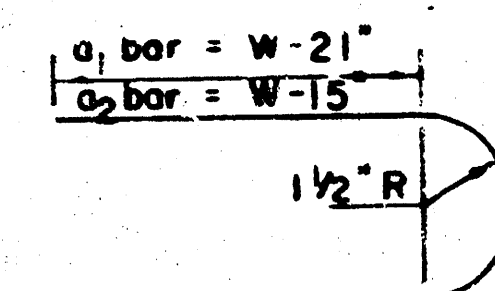
NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.

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

2" BELOW STD. GUTTER FLOW LINE



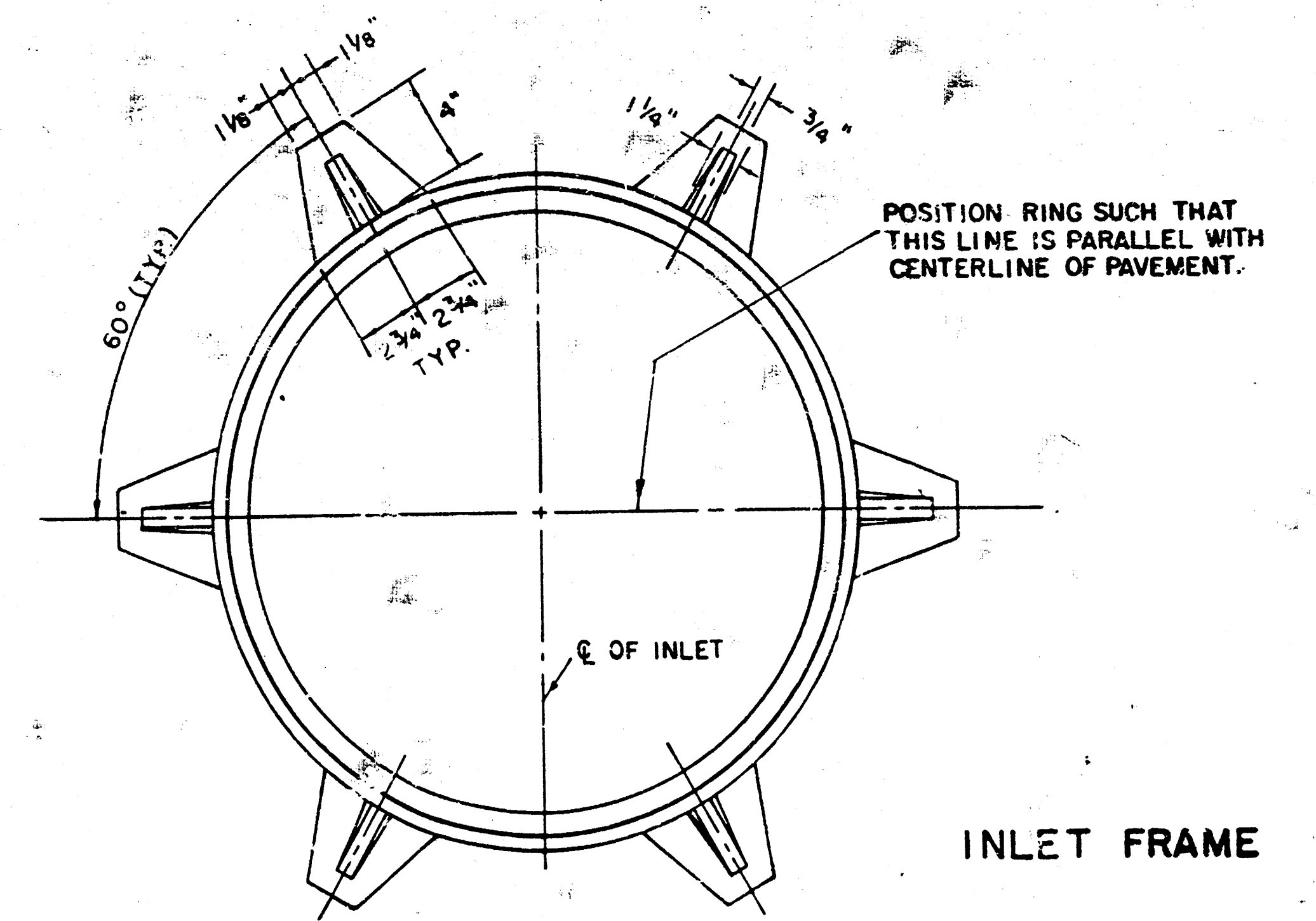
NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX.

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6' 4" AND H = 7' 0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

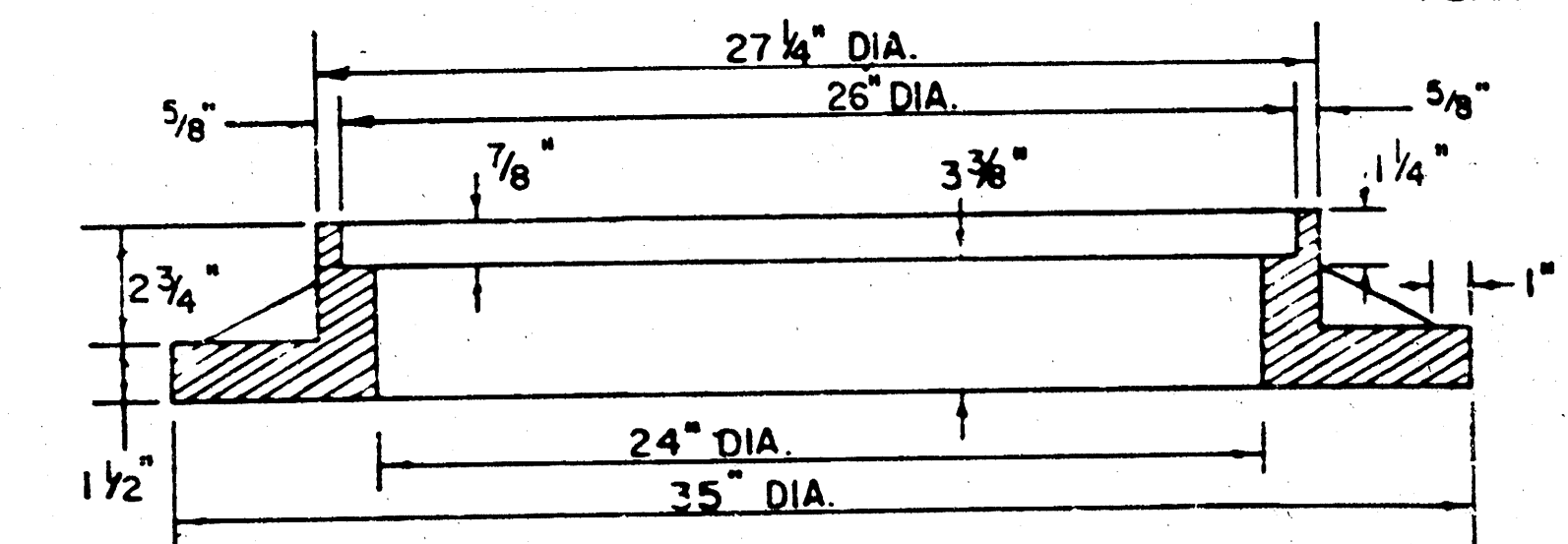
INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

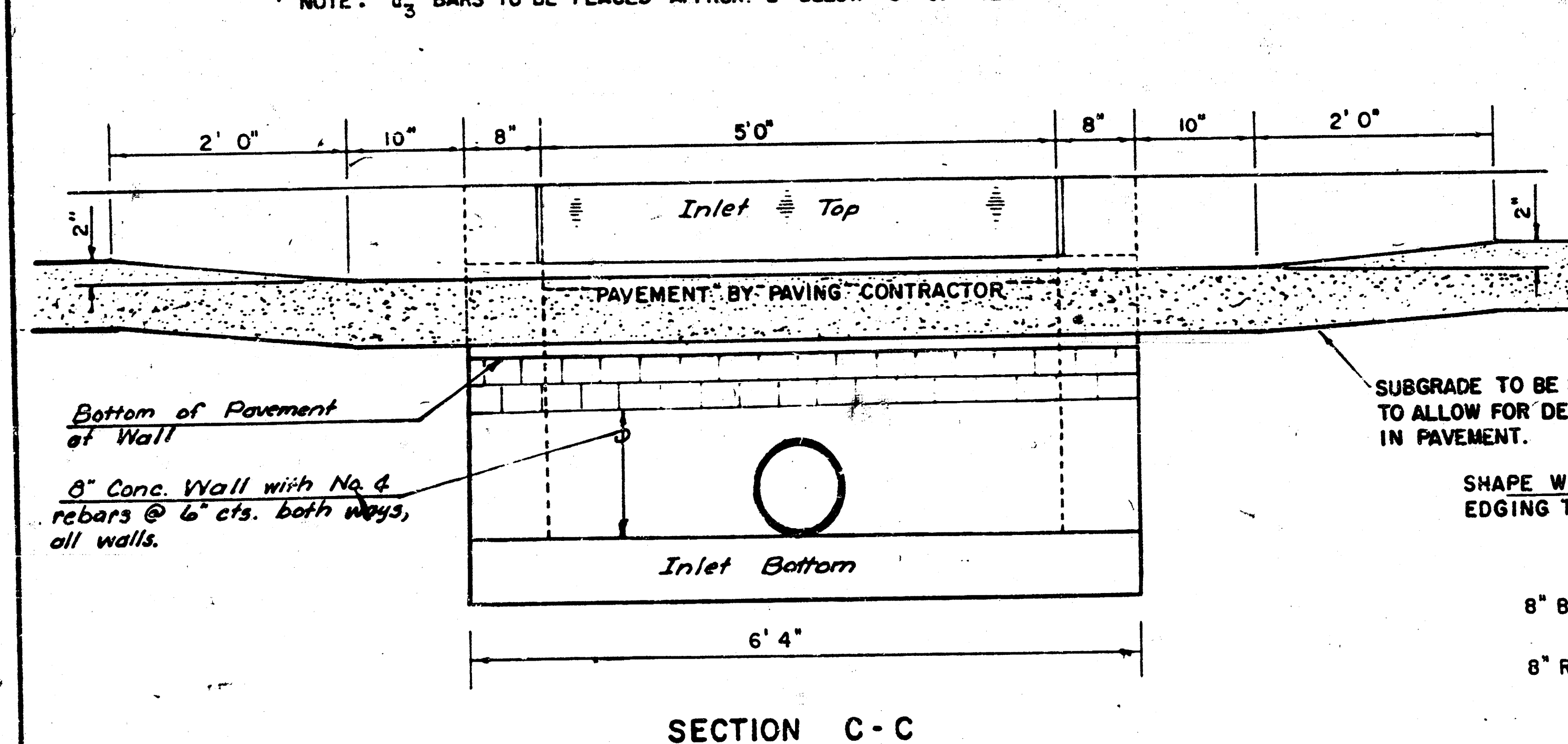


INLET FRAME

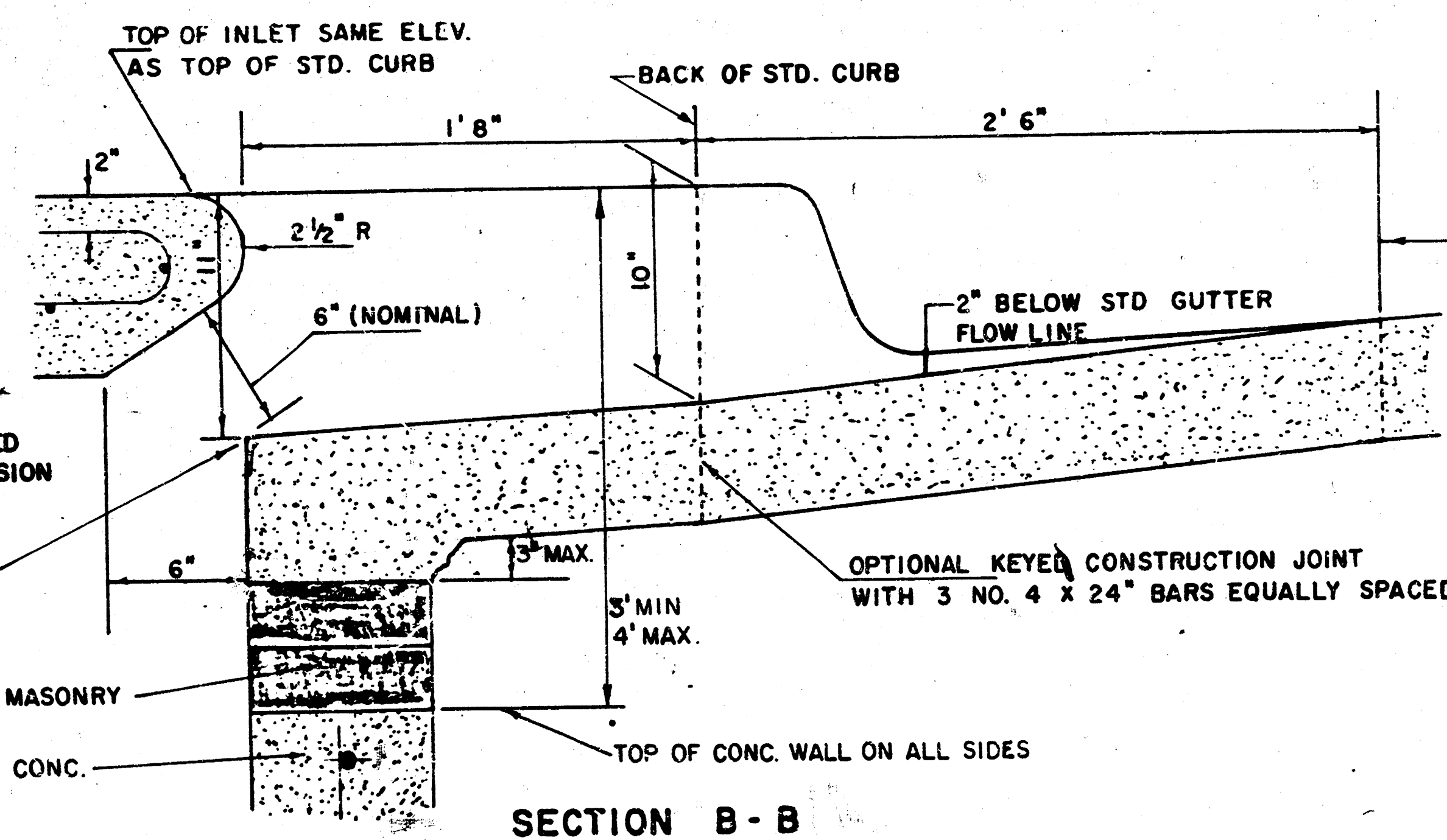
WEIGHT = 160 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



SECTION C-C



SECTION B-B

LIMITS OF GUTTER SHAPING AND/OR EDGE OF COMB. CURB AND GUTTER

REVISED 12-21-1984

DETAIL STANDARD TYPE IA CURB INLET

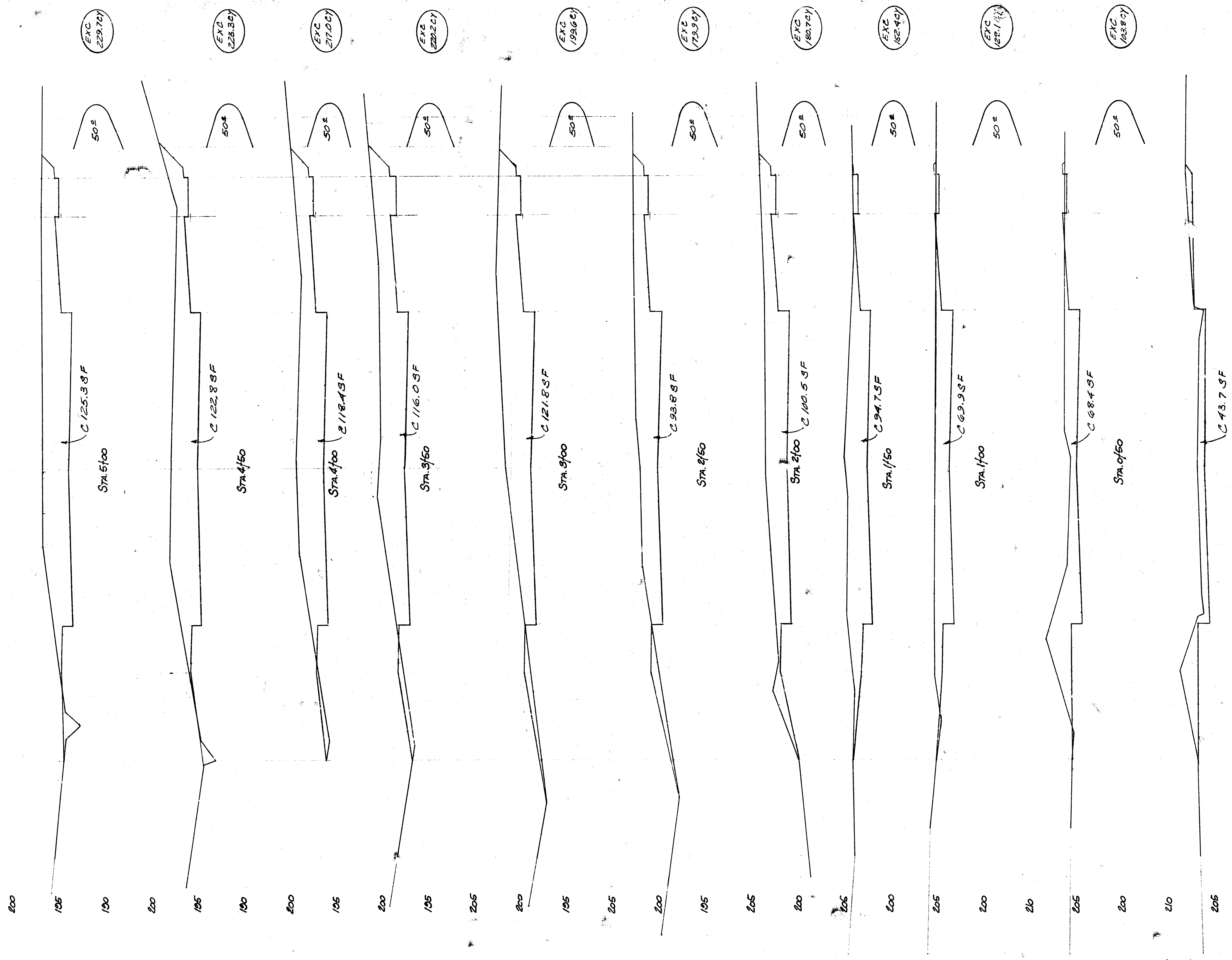
CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5' 0"

JUNE 1984

7/9 (7/9)

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Sheet Total
Exc = 1834.7 CY

Project Total
Exc = 3439.2 CY
CF = 56 CY

Sta. 40 30 20 10 0 10 20 30 40

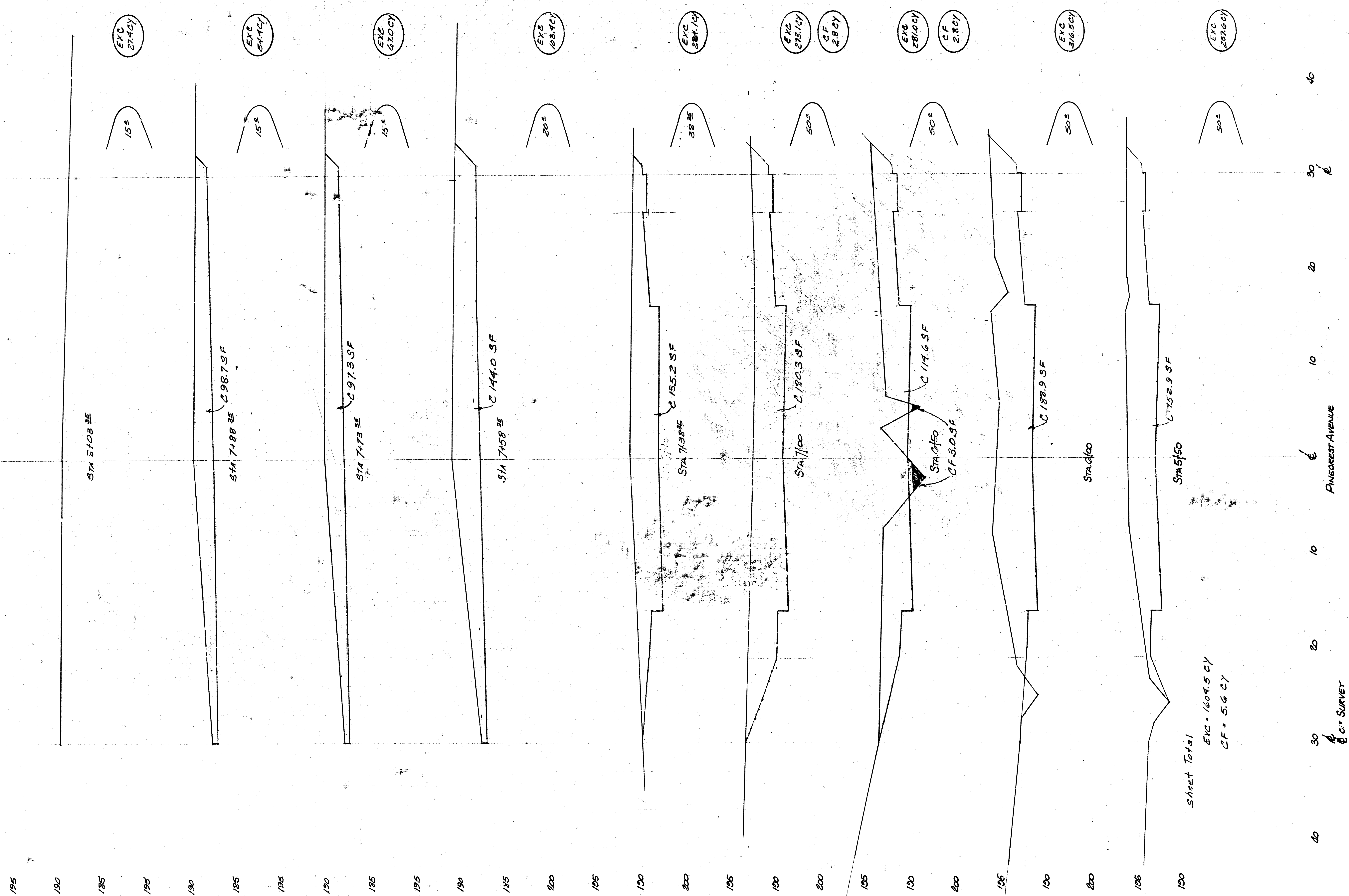
PINECREST AVENUE

8/9

Project # 472-76-245-8/330-000-000-001

Earthwork Sections
Pinecrest Avenue

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Sheet Total
 EXC = 1604.5 CY
 CF = 5.6 CY

Earthwork Sections
 Pinecrest Avenue
 Stationing 7400.00 to 7450.00
 9/9

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