

# STREET IMPROVEMENTS FOR LACLEDE AVENUE

**FROM THE NORTH LINE OF TAFT TO THE SOUTH LINE OF UNIVERSITY AVENUE**

**PROJECT NUMBER**

**472-76-245-81759-000-000-001**

**CITY OF WICHITA, KANSAS**

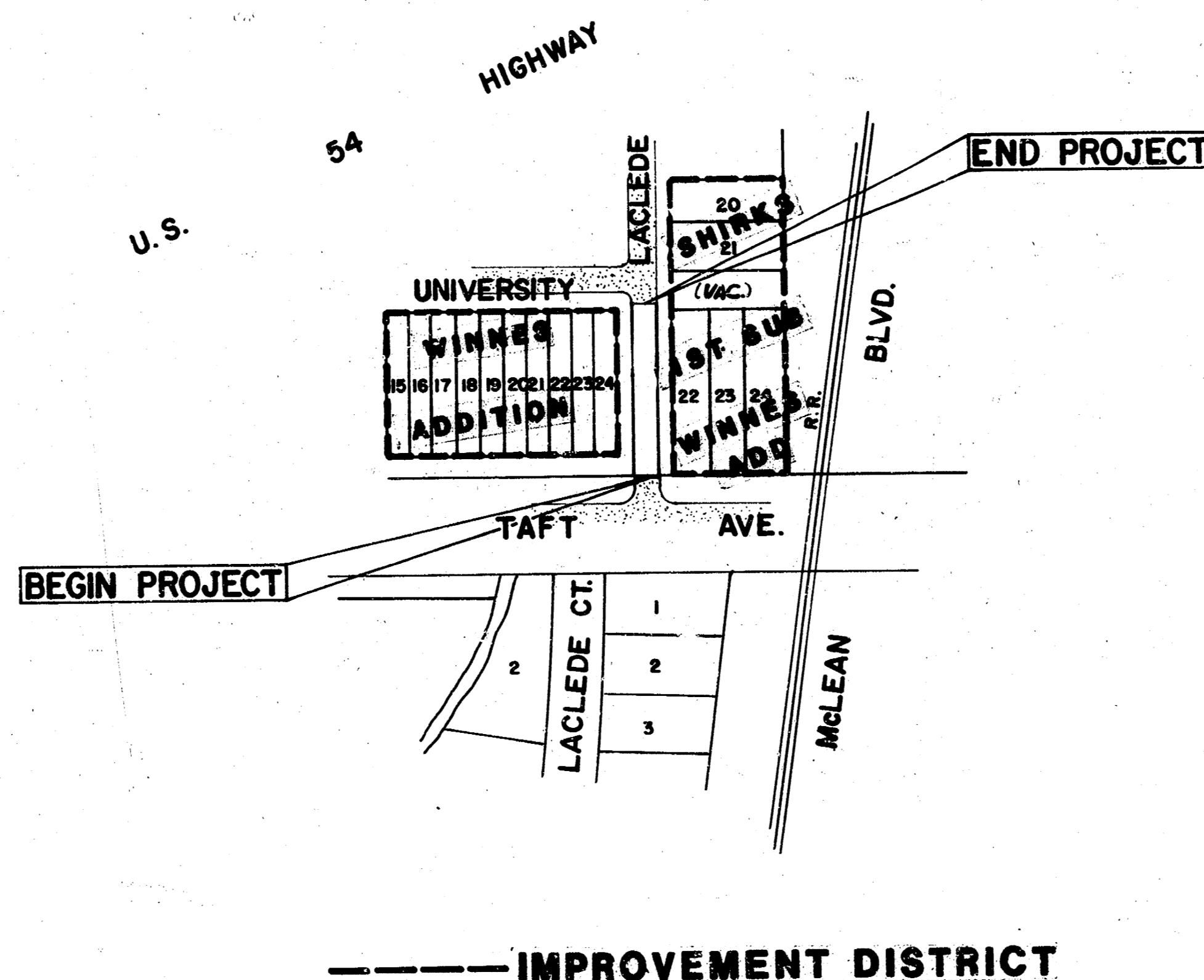
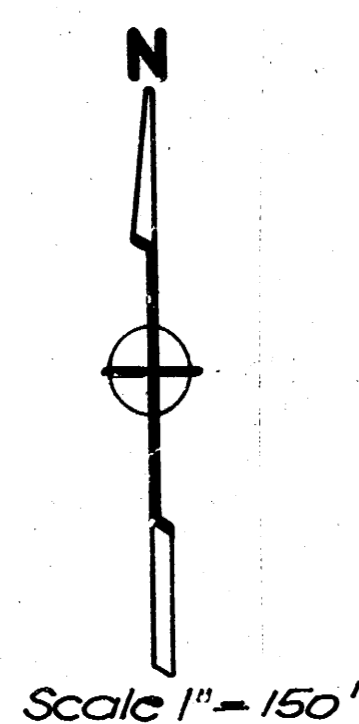
**MICHAEL E. LINDEBAK CITY ENGINEER**

## INDEX OF SHEETS

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Typical Pavement Section 7" A.C. (31')	2
Typical Pavement Section 7" A.C. (28')	3
Street Improvements; Laclede Ave	4
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## GENERAL NOTES

1. Interurban traffic generated outside the project area is not to be carried through construction. Local business or apartment traffic generated within the project area is to be carried through construction as further promulgated by project special provisions.
2. Utility service lines, poles, valve boxes, meters, and enclosures are to be adjusted as necessary by others prior to construction unless the plans specifically call for their adjustment by the Contractor or unless the plans specifically identify a utility to be adjusted by its owner during construction. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
3. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the Contractor. These sites shall be approved by the Engineer as to suitability, appearance and site location. Locations that, in the opinion of the Engineer, will leave an unsightly appearance will not be approved.
4. The City of Wichita's Sewer Maintenance Division of the Department of Meter and Water Pollution Control has televised sewers within the limits of the project and have found no defects requiring repair. The Division shall be notified and afforded the opportunity to relevel sewer lines after subgrade work has been completed and prior to pavement construction to determine if such sewer lines have been damaged by the Contractor's operations. Damaged sewer lines will be repaired by the Contractor as directed by the Engineer, at the Contractor's expense. Television logs are available for inspection by the Contractor during normal office hours at the Sewer Maintenance Division's office at City Hall.
5. No more than 14 drives 14 feet in width or equivalent combinations thereof, are to be constructed with this project.
6. 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.
7. Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.
8. 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 in accordance with state laws.
9. Driveway widths and locations shown on the plan are tentative. Contractor will be required to obtain properly executed driveway request form signed by property owner or his authorized representative verifying such driveway widths and locations. Such forms shall be submitted to the Engineer for his review and approval.
10. The Contractor shall give all property owners and/or tenants of developed property abutting the project limits a minimum of ten (10) days advance notice prior to start of construction.



## BENCH MARKS

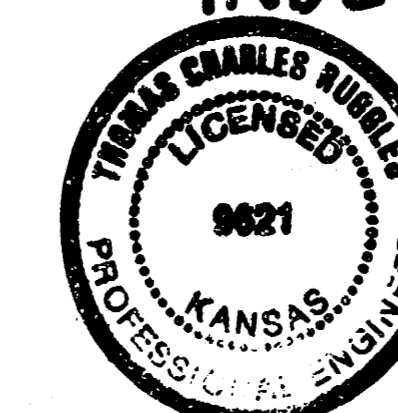
- Bench Mark: 'a' Cut Top Curb East end of Northeast Curb Return @ Taft and Laclede Avenue  
Elev. 110.00  
City Datum
- Bench Mark: 'b' Cut Top Curb North end of Curb Return, Sta. 2+27.16' @ Laclede and University Ave.  
Elev. 107.18  
City Datum

**NOTE: STORM SEWER CONSTRUCTION SHOWN ON PLANS IS BEING FUNDED AS A SEPARATE PROJ. AS S.W.S. No. 368 PROJECT No. 468-76-245-81857-000-000-001**

**INDEX # 601054**

**STREET IMPROVEMENTS FOR  
LACLEDE STREET**

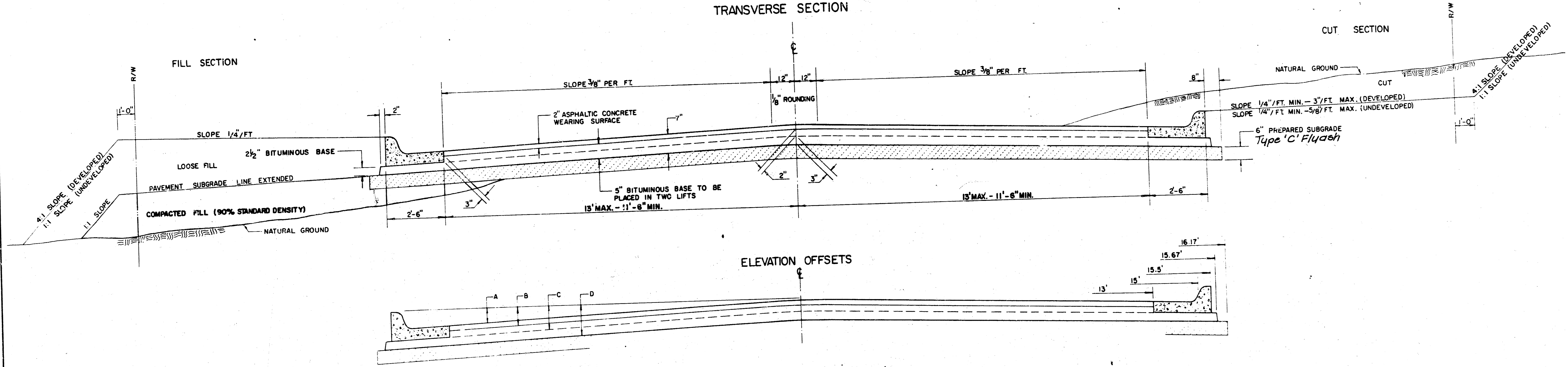
<b>BAUGHMAN COMPANY P. A.</b>		REV.
SURVEYING & ENGINEERING		1/9
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211		SHEET
PROJECT NUMBER <b>472-76-245-81759-000-000-001</b>		1
DESIGN	DRAWN R.J. Plush	OF 9
APPROVED	DATE May 10, 1988	SCALE 1" = 150'



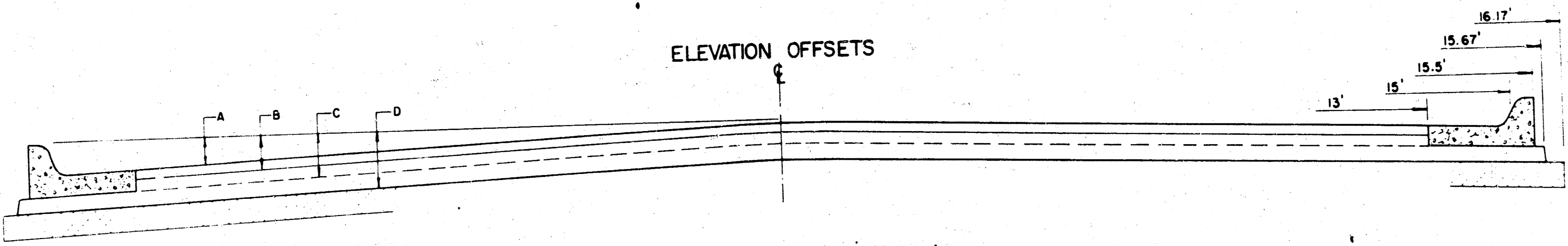
# TYPICAL 31' PAVEMENT DETAILS

Note: Width Tapers from 31' @ Sta 0+1.3 to 28' @ Sta 1+25

## TRANSVERSE SECTION



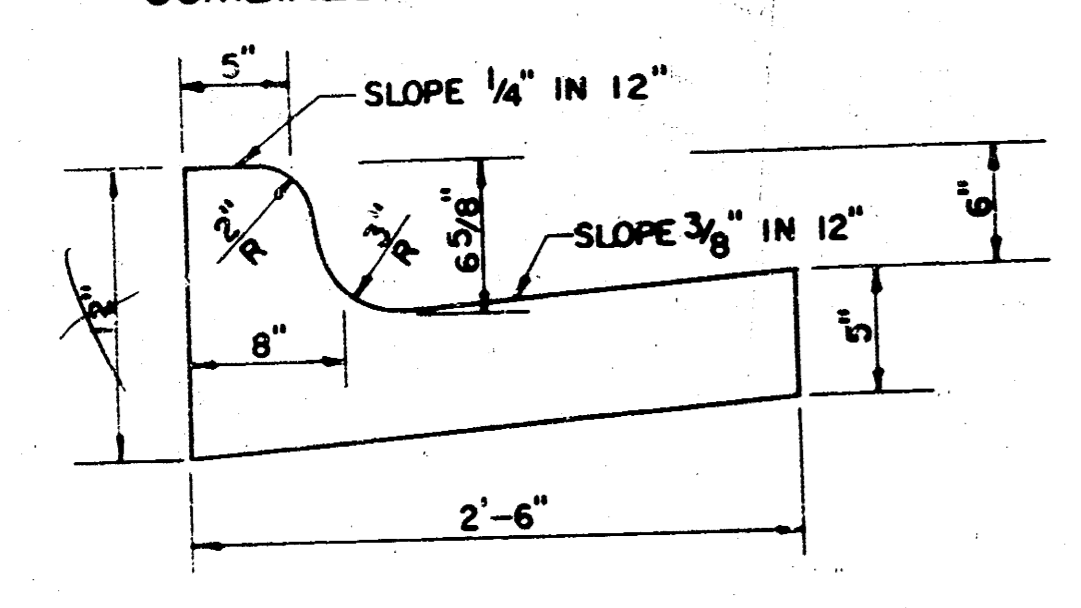
## ELEVATION OFFSETS



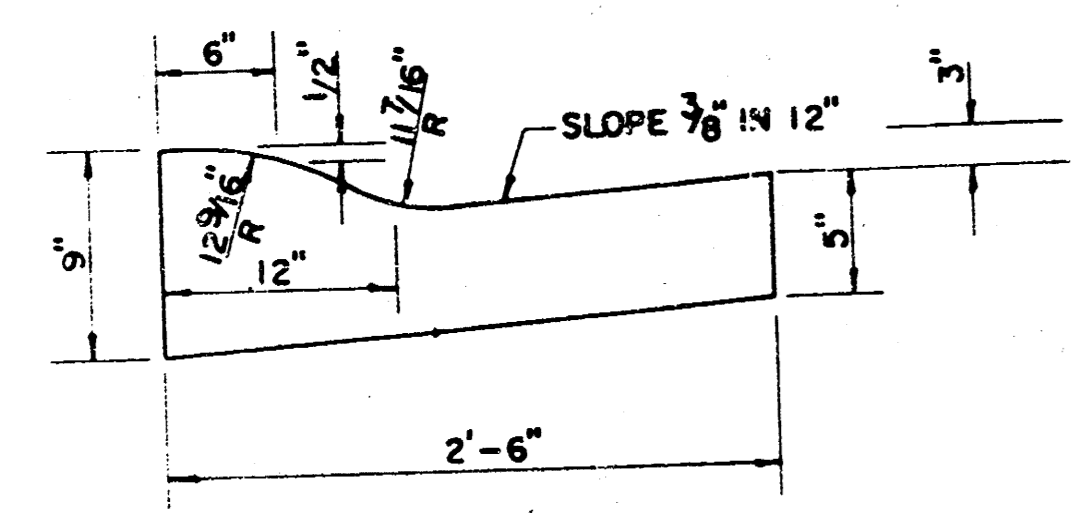
Note: Table values to be used @ 31' width only

	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

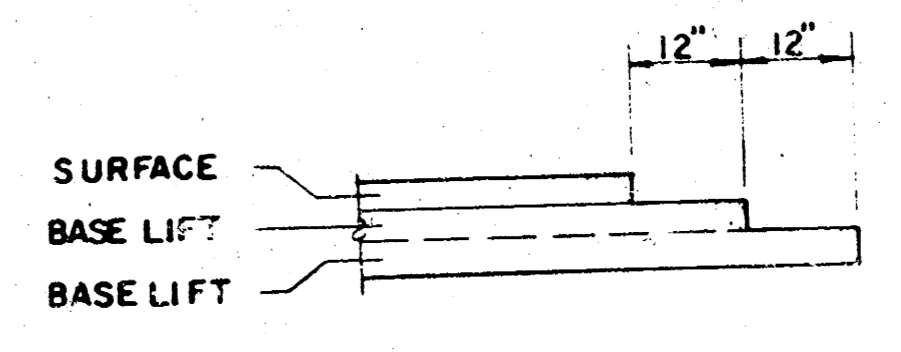
### COMBINED CURB & GUTTER



### ROLL TYPE COMBINED CURB & GUTTER



### TRANSVERSE CONSTRUCTION JOINTS



### 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.

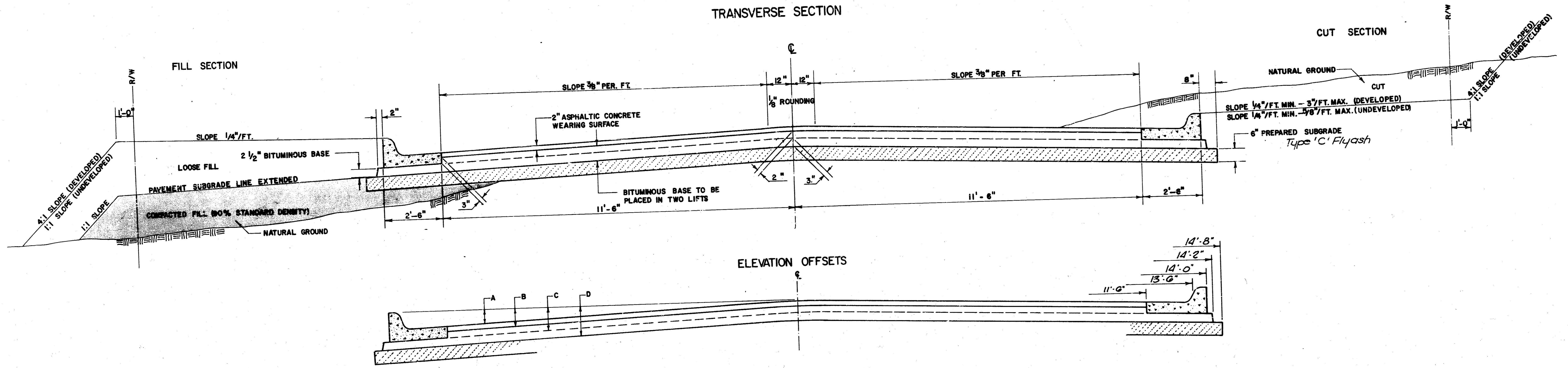
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVED EXISTING FLEXIBLE BASE PAVEMENT IS SHOWN BY THE PLANS. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF TRANSVERSE JOINT SHALL BE INCLUDED IN THE BIDDING. THE JOINT SHALL BE CONSTRUCTED IN THE SUBGRADE, TOP LIFT OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE  
**CITY OF WICHITA, KANSAS**  
 PROJECT NUMBER  
 472-76-245-81759-000-000-001

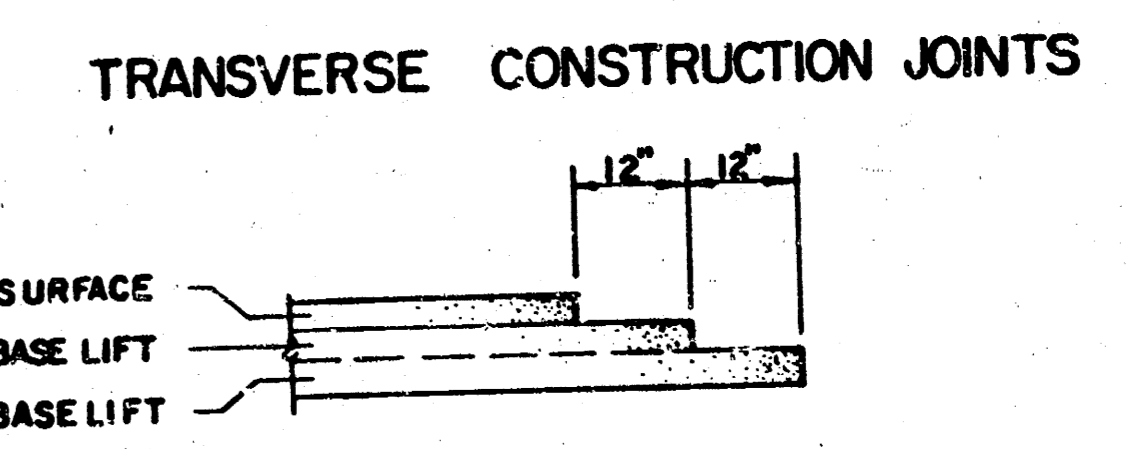
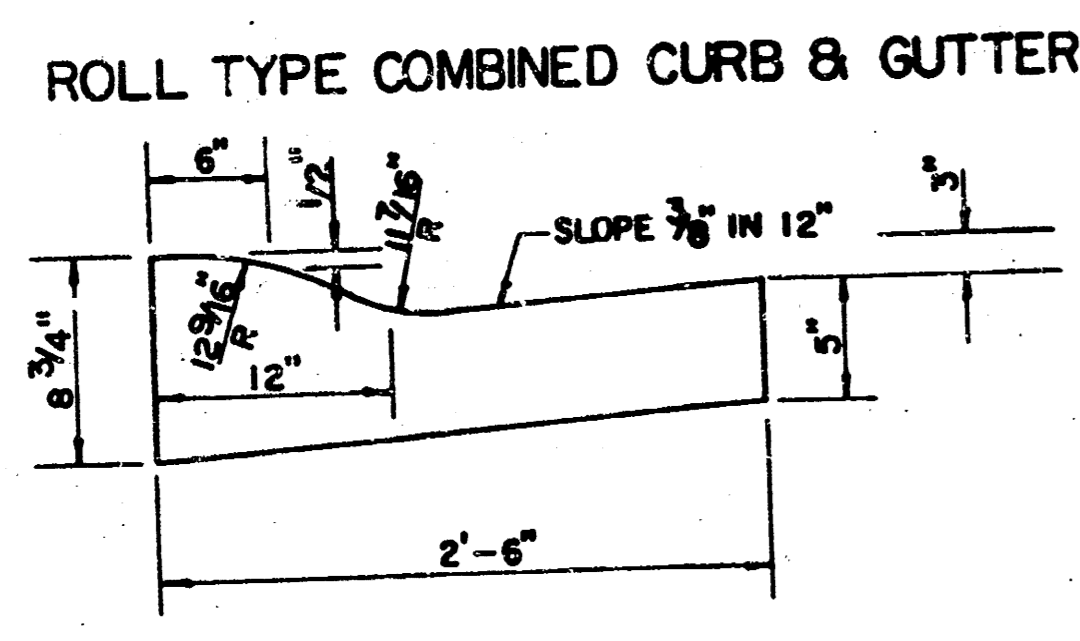
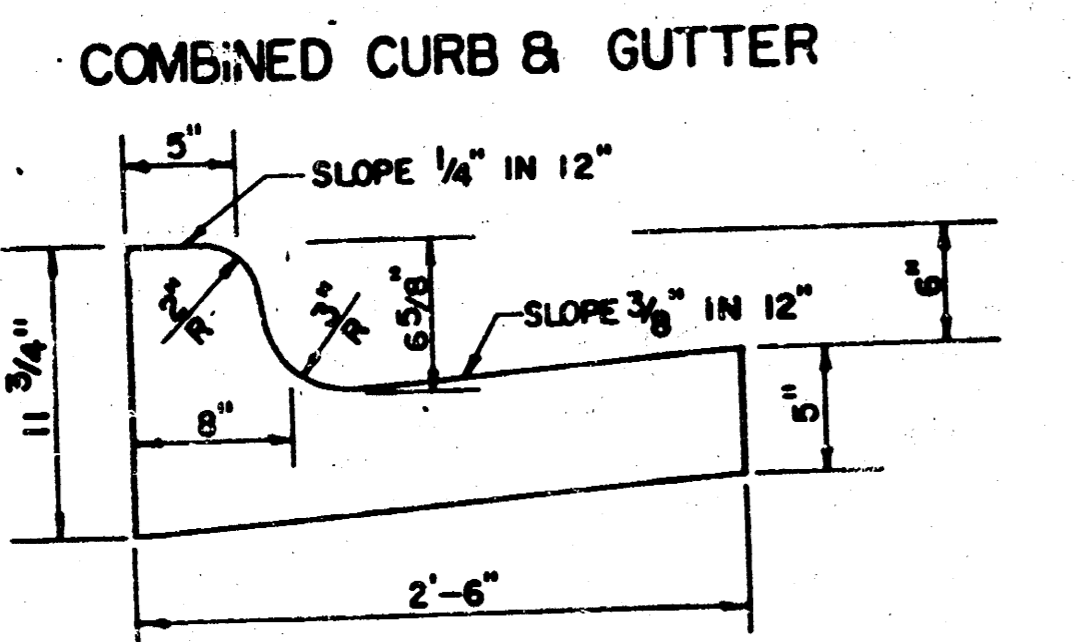
# TYPICAL 28' PAVEMENT DETAILS

STA. 1+25 TO 1+73.5

## TRANSVERSE SECTION



	DISTANCE FROM CENTERLINE (LT. & RT.)													
	0'	2'	4'	6'	7'	8'	10'	11'-6"	13'-6"	14'-0"	14'-2"	14'-6"		
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.15	0.20	0.27	0.33	0.36	0.39	0.43	0.50	—	—	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.52	0.57	0.64	0.70	0.73	0.76	0.80	0.87	—	—	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.49	0.54	0.61	0.67	0.70	0.73	0.77	0.84	0.91	0.92	0.93	0.94	—	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.74	0.80	0.87	0.93	0.96	0.99	1.03	1.10	1.17	1.18	1.19	1.20	1.21	1.22



- ### 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.

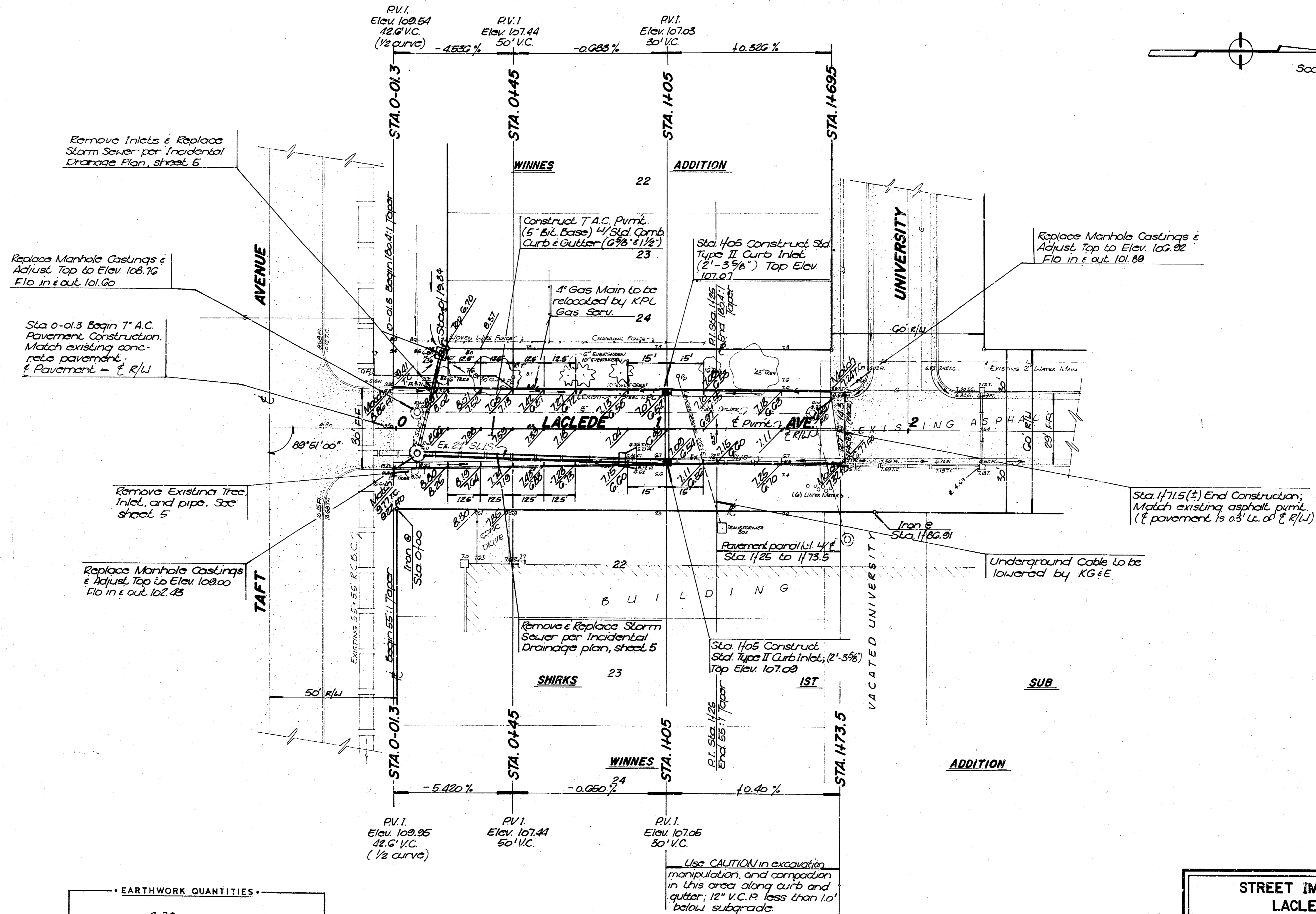
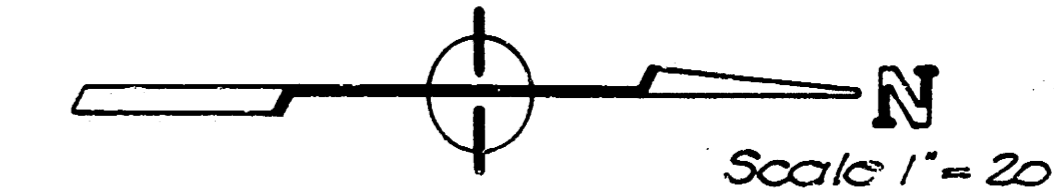
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINTS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC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

3/4

7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE	
CITY OF WICHITA, KANSAS	3
PROJECT NUMBER	
472-76-245-81759-000-000-001 9	

Bench Mark: "a" Cut Top Curb East end of Northeast Curb Return @ Taft and Laclede Ave. Elev. 110.09 City Datum

Bench Mark: "a" Cut Top Curb North end of Curb Return, Sta. 2+27.15' @ Laclede and University Ave. Elev. 107.18 City Datum



**EARTHWORK QUANTITIES**

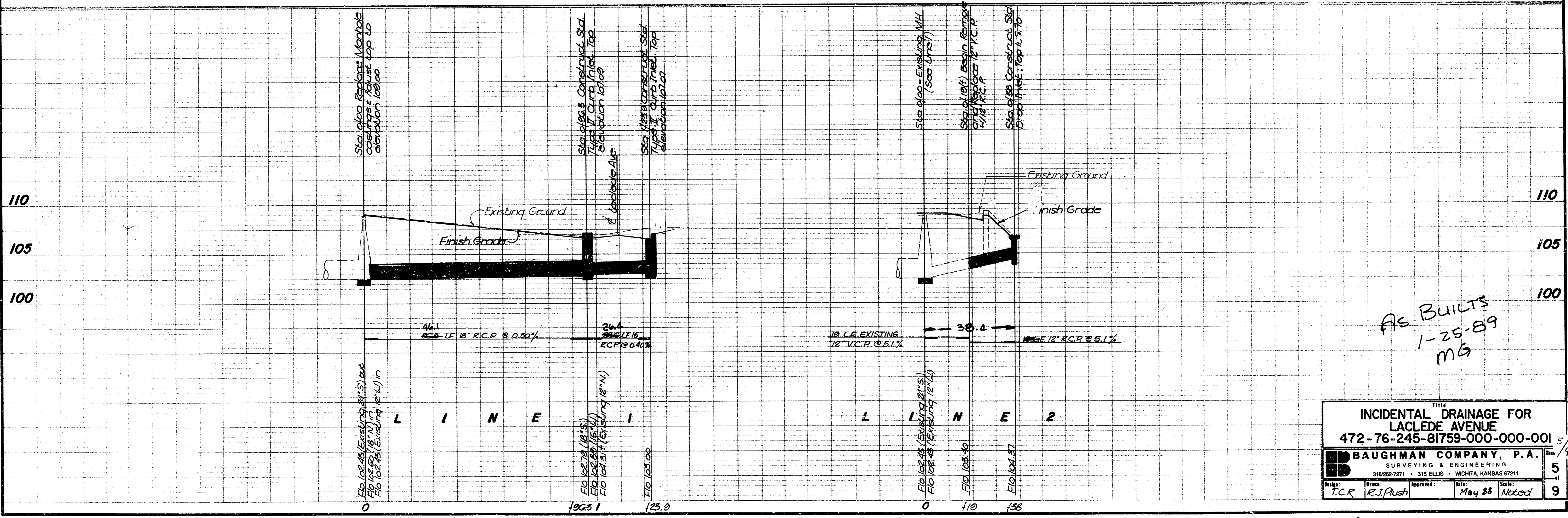
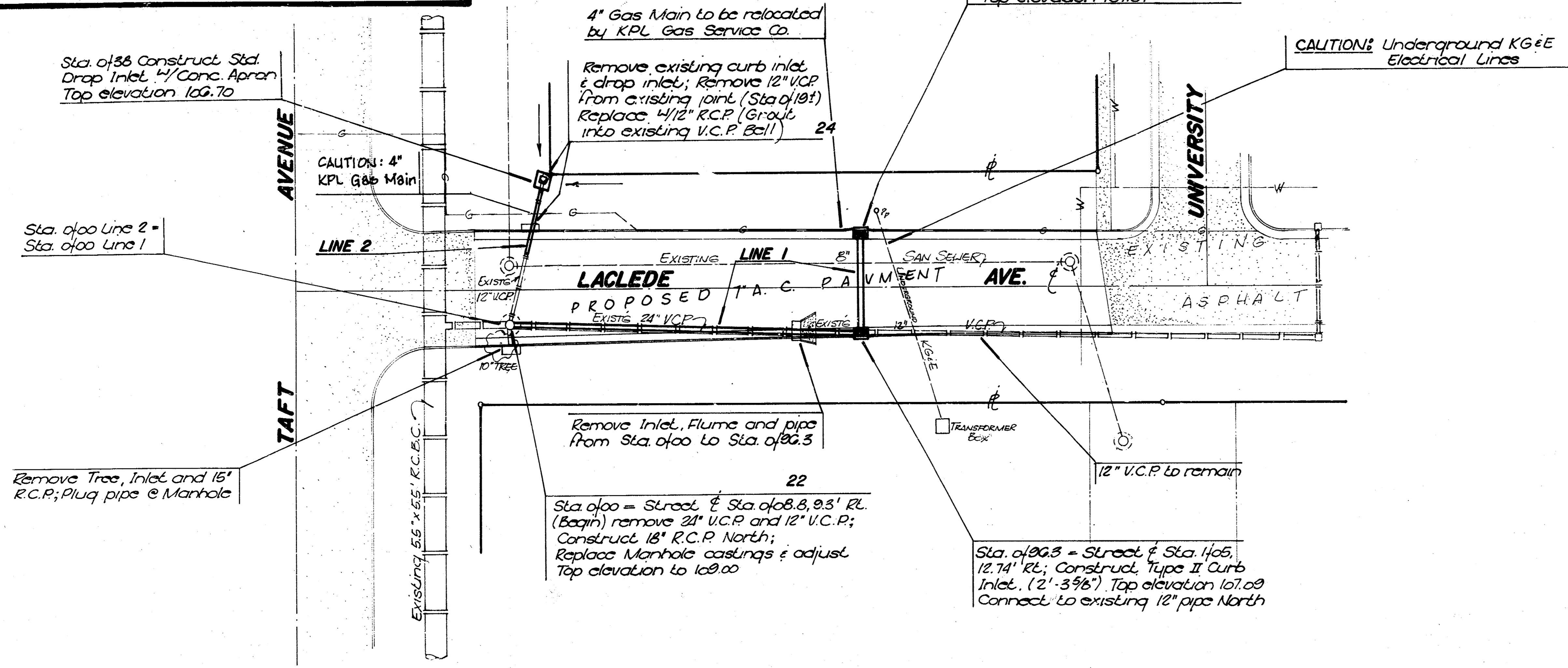
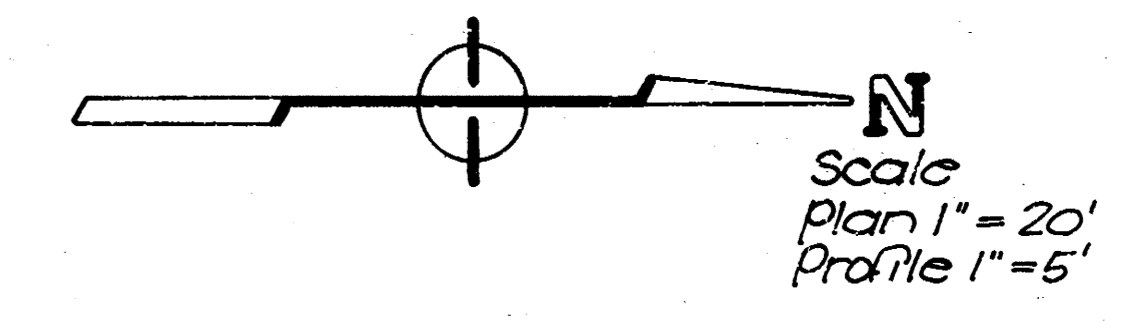
Excavation	207.3 cy	Compacted Fill	0 cy
+10%	20.7	+10%	0
Total	228.0 cy	Total	0 cy
Subgrade Manipulation	581.2 sy		
Borrow Material	0 cy		

**NOTE:** Any sawing of existing pavement to facilitate new construction will not be paid for directly and is to be considered as subsidiary to the pay items of work identified in the proposal.

STREET IMPROVEMENTS FOR LACLEDE AVENUE				
		<b>BAUGHMAN COMPANY P. A.</b> SURVEYING & ENGINEERING 315/282-7271 • 315 ELLIS • WICHITA, KANSAS 67211		
PROJECT NUMBER				
<b>472-76-245-81759-000-000-001</b>				
DESIGN	DRAWN	APPROVED	DATE	SCALE
T.C.R.	R.J.Plush		May 88	1" = 20'
				SHEET <b>4</b> / 9 OF <b>9</b>

Bench Mark: '0' Cut, Top Curb East end of Northeast Curb Return @ Taft and Laclede Ave. Elev. 110.69 City Datum

Bench Mark: '0' Cut, Top Curb North end of Curb Return, Sta. 2+27.15' @ Laclede and University Ave. Elev. 107.18 City Datum

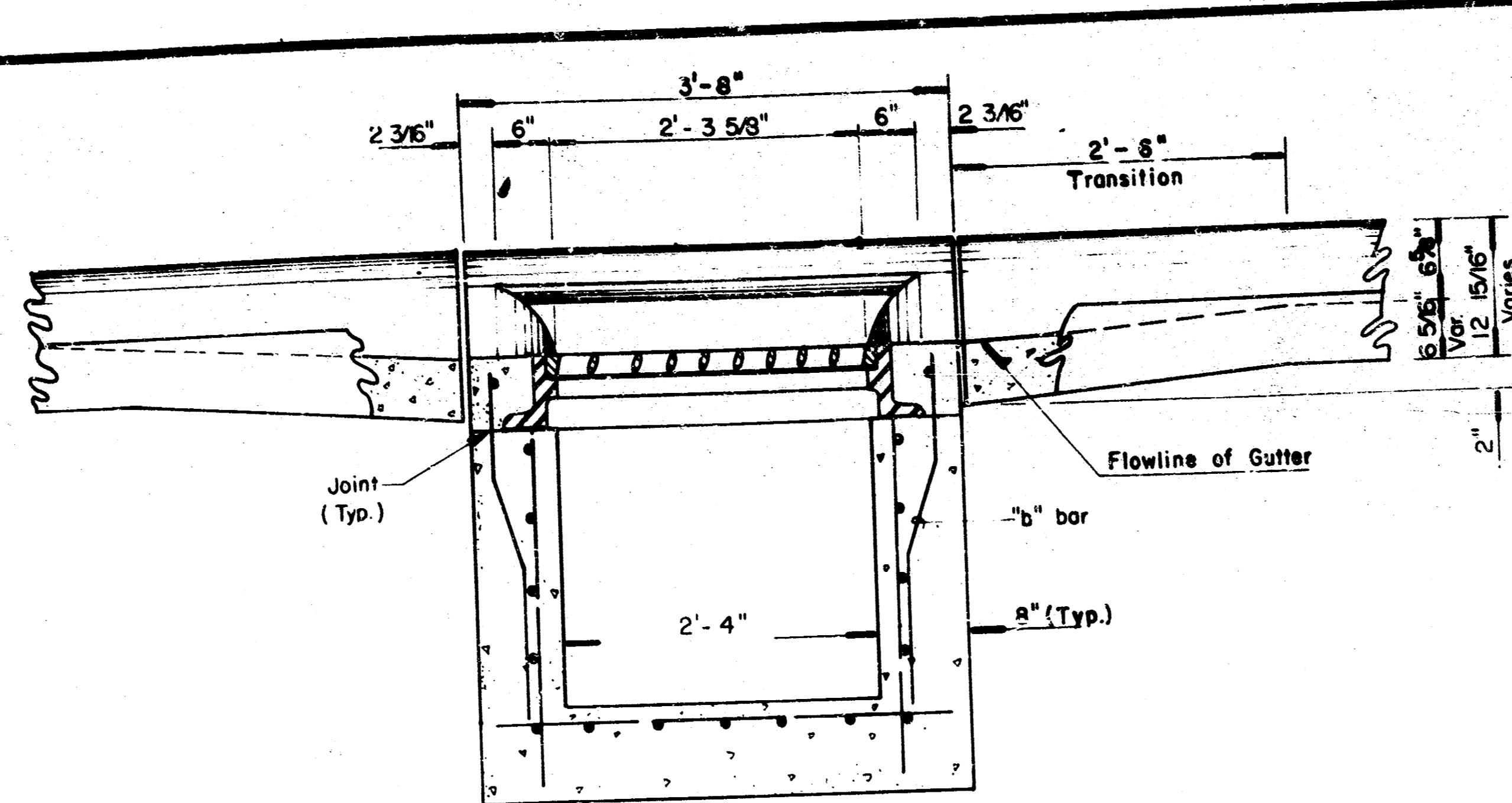


AS BUILTS  
1-25-89  
MG

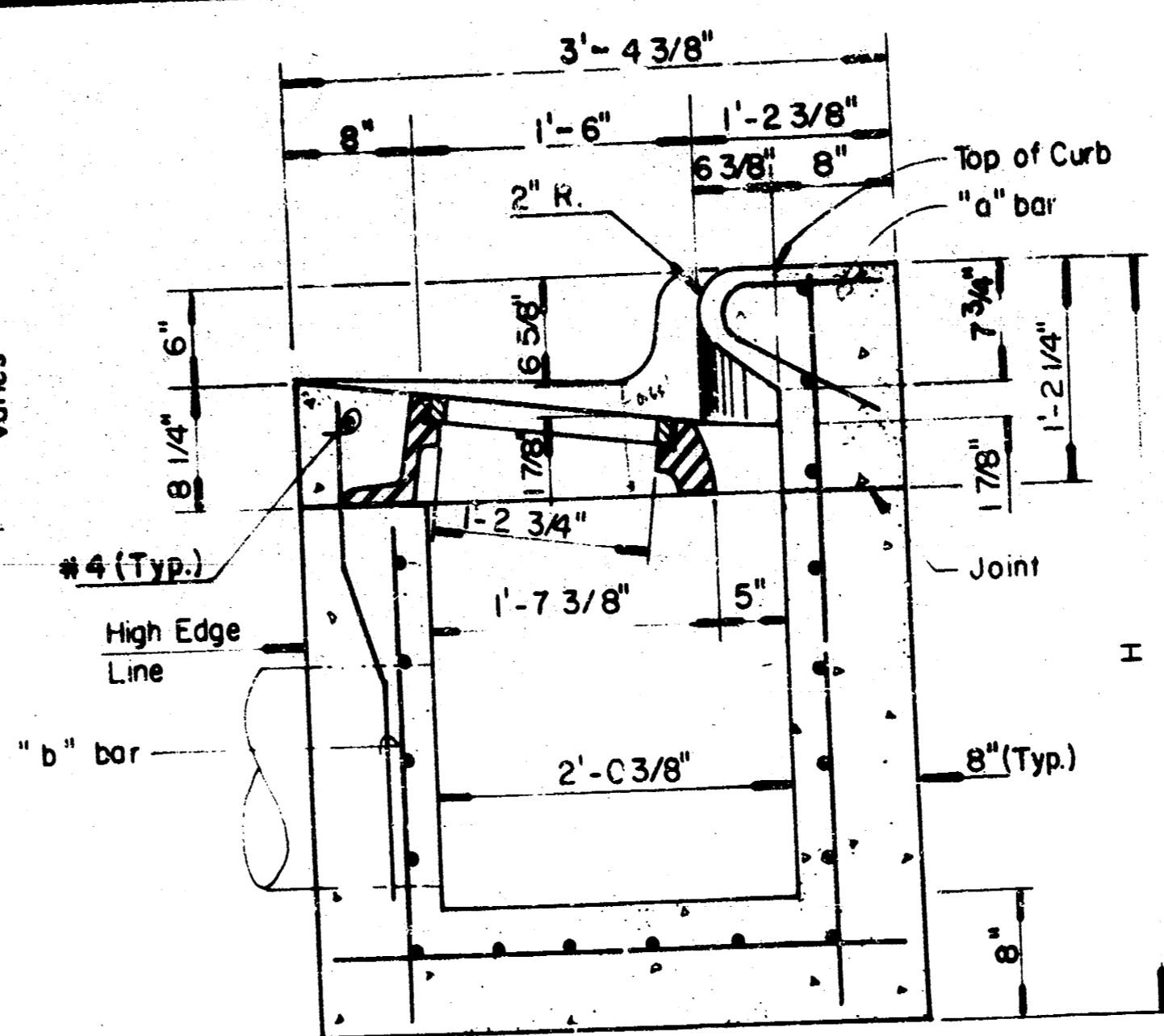
INCIDENTAL DRAINAGE FOR  
LACLEDE AVENUE  
472-76-245-81759-000-001

BAUGHMAN COMPANY, P.A.  
SURVEYING & ENGINEERING  
316/262-7271 • 315 ELLIS • WICHITA, KANSAS 67211

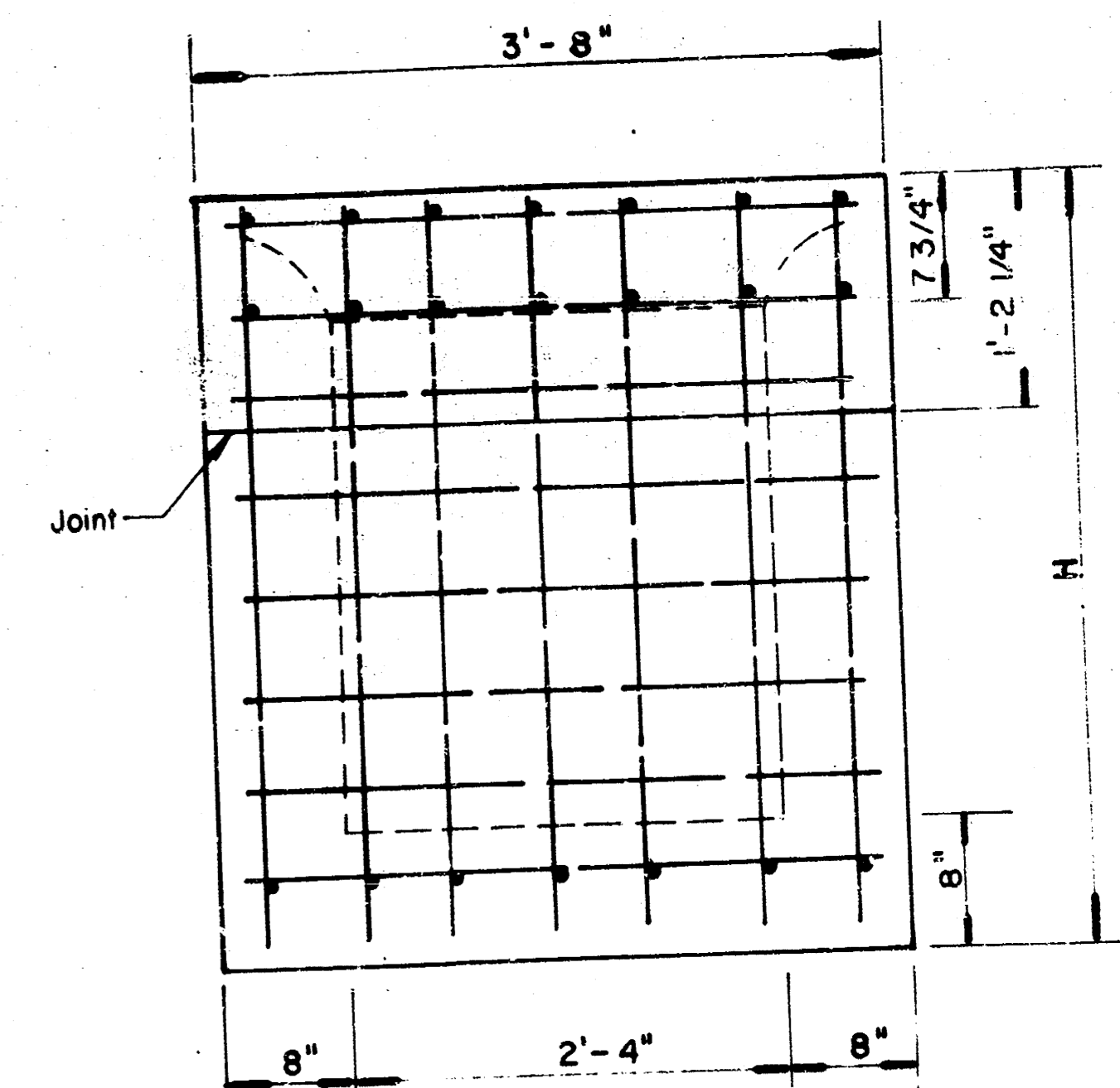
Design: T.C.R. Drawn: R.J. Plush Approved: Date: May 88 Scale: Noted



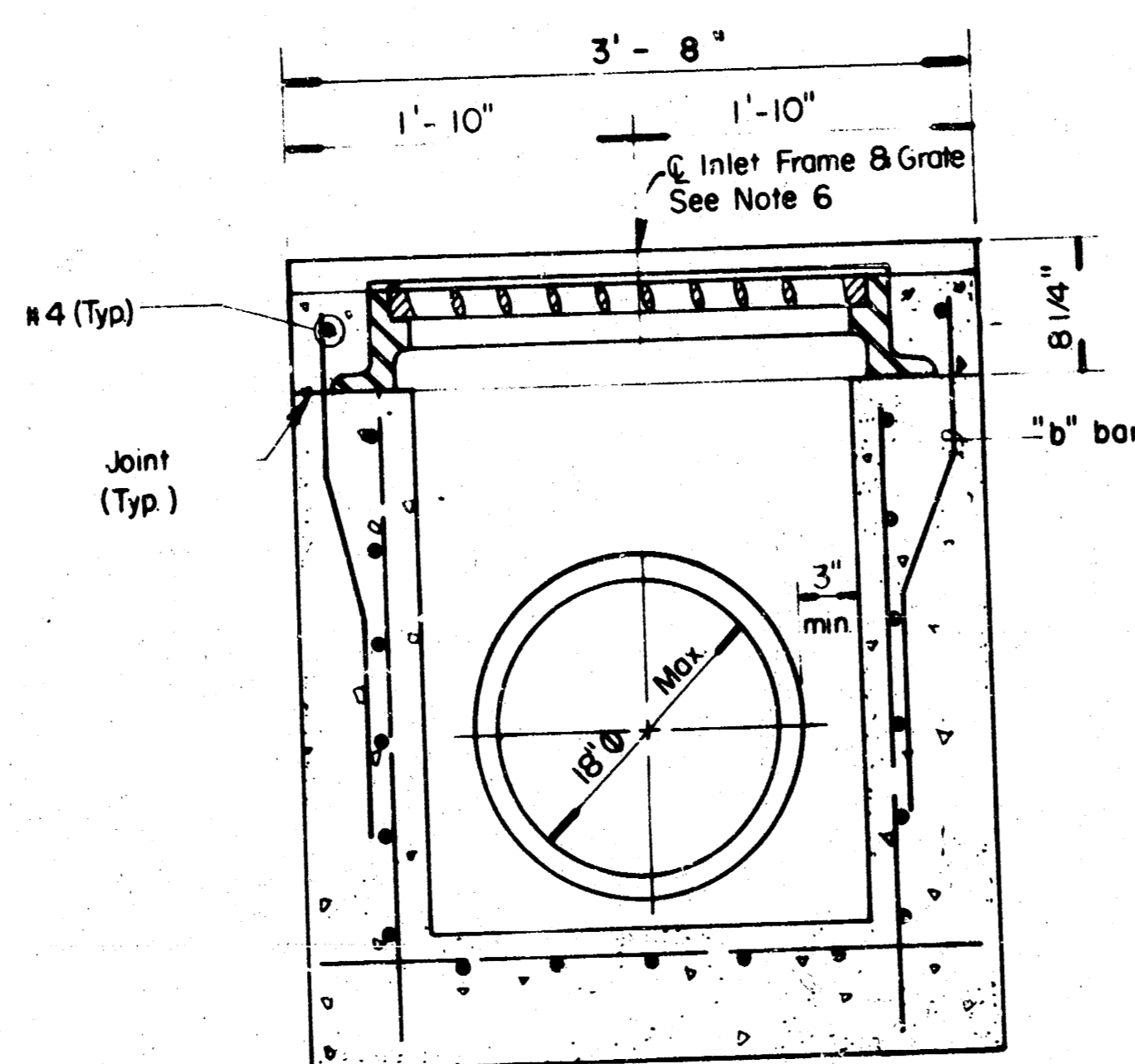
SECTION C-C



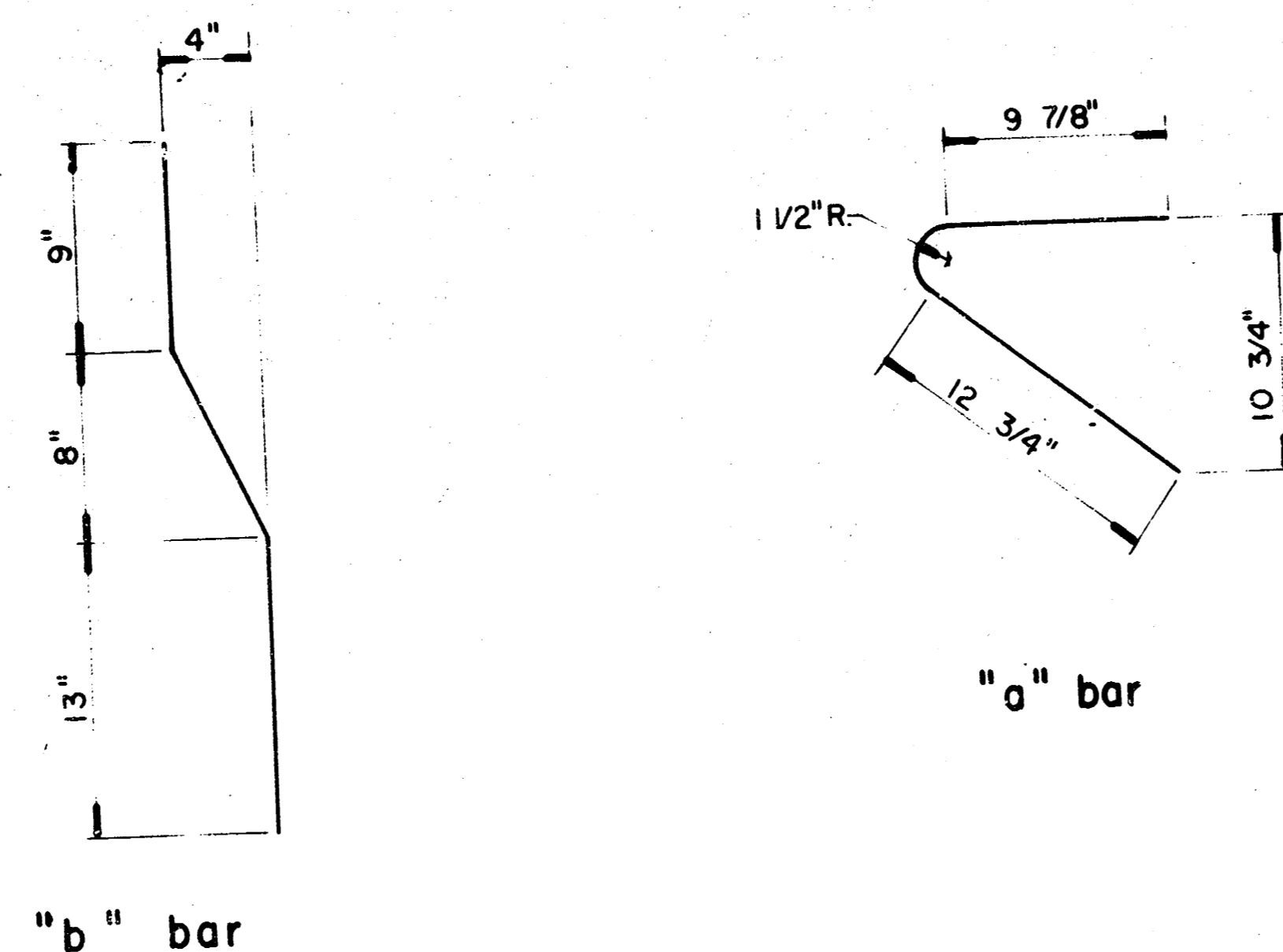
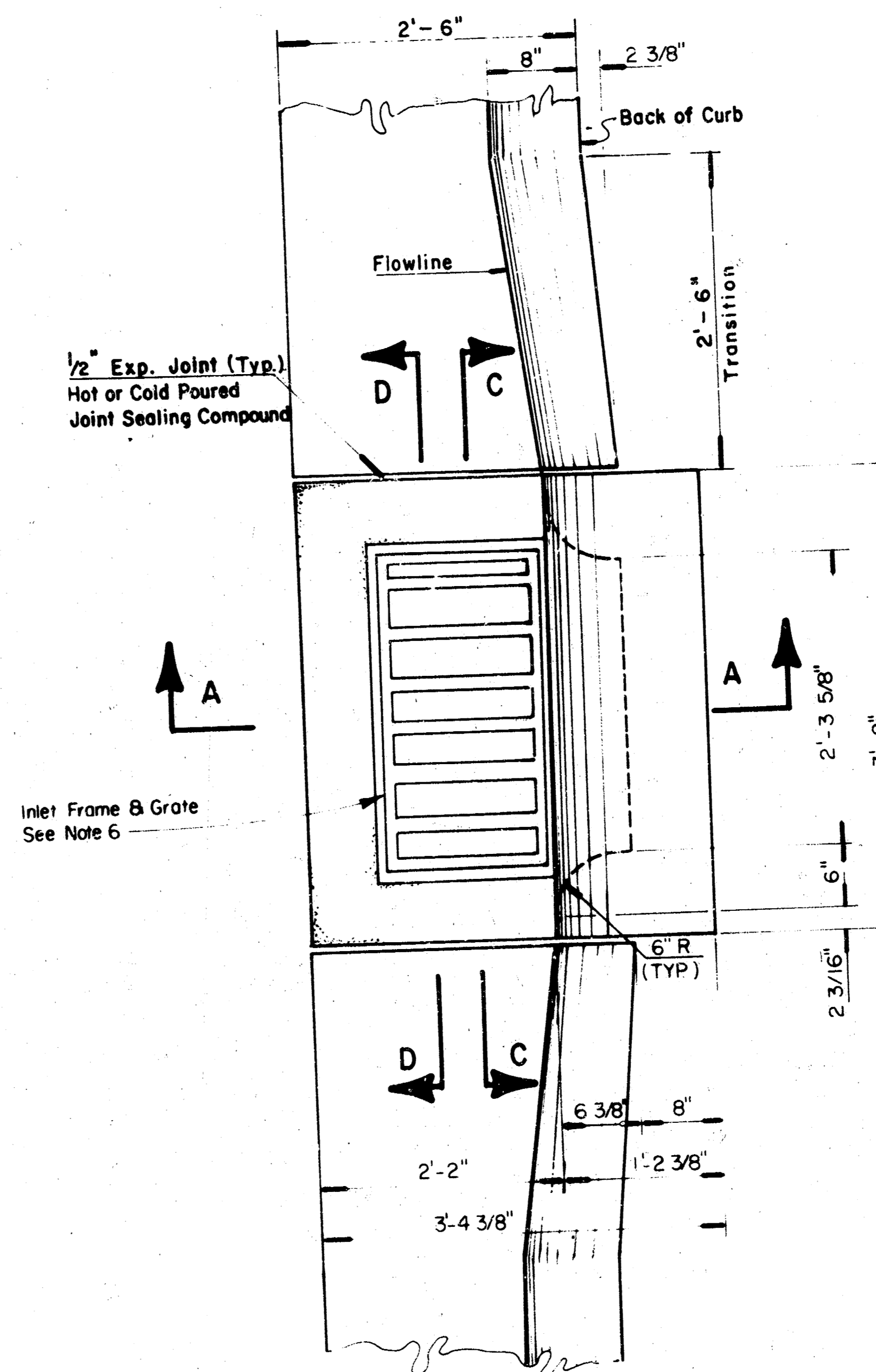
SECTION A-A



REAR WALL



SECTION D-D



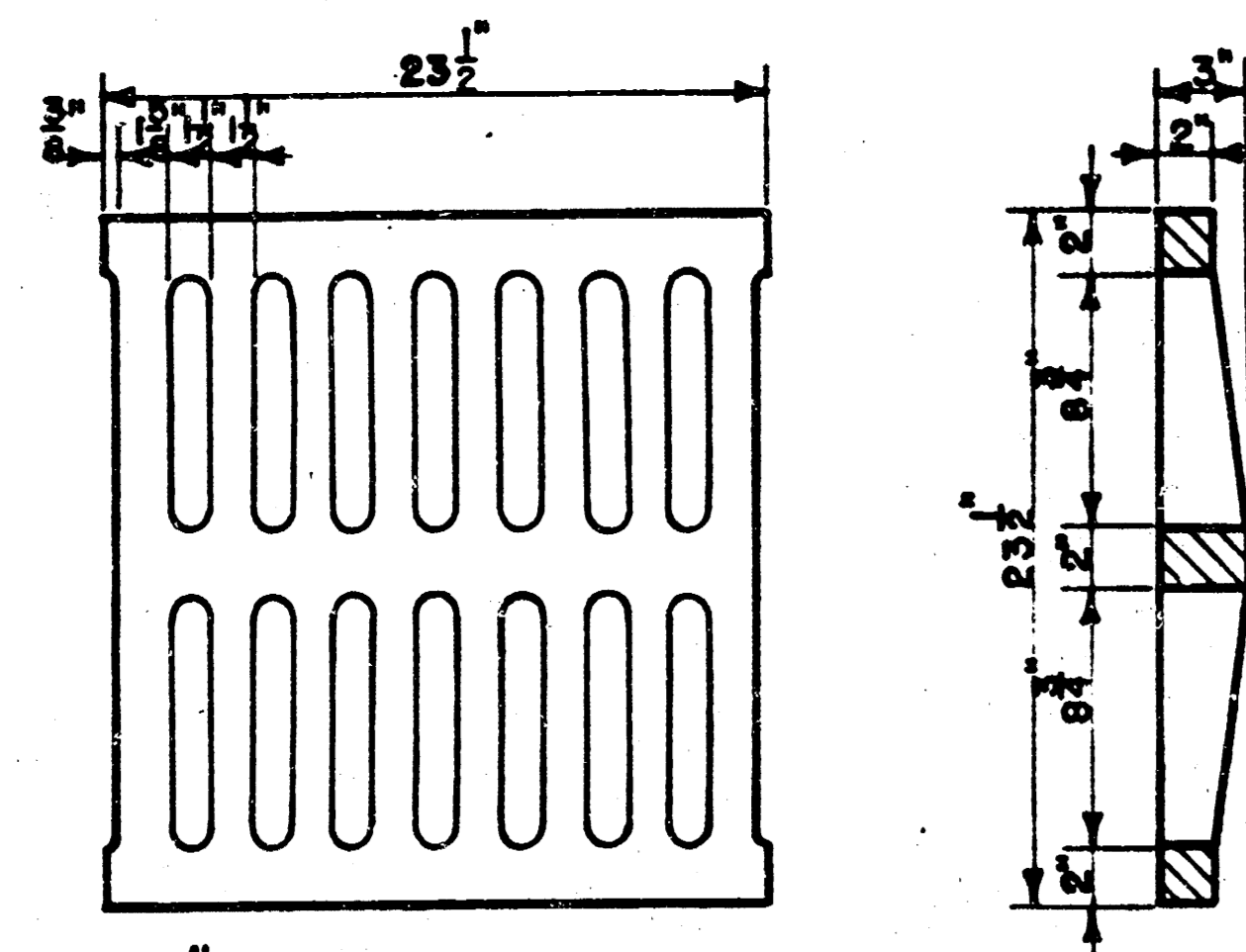
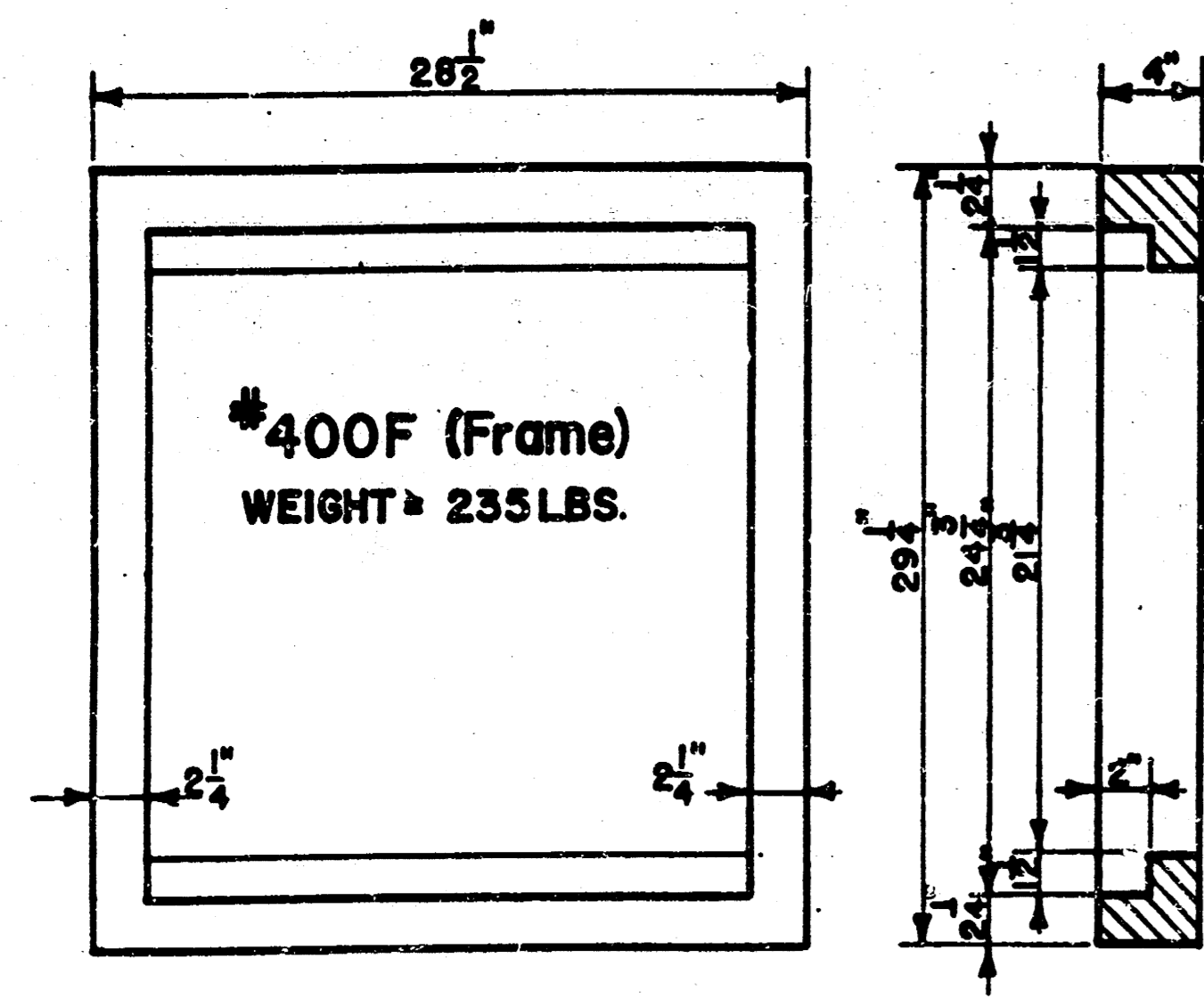
BENDING DIAGRAM

GENERAL NOTES:

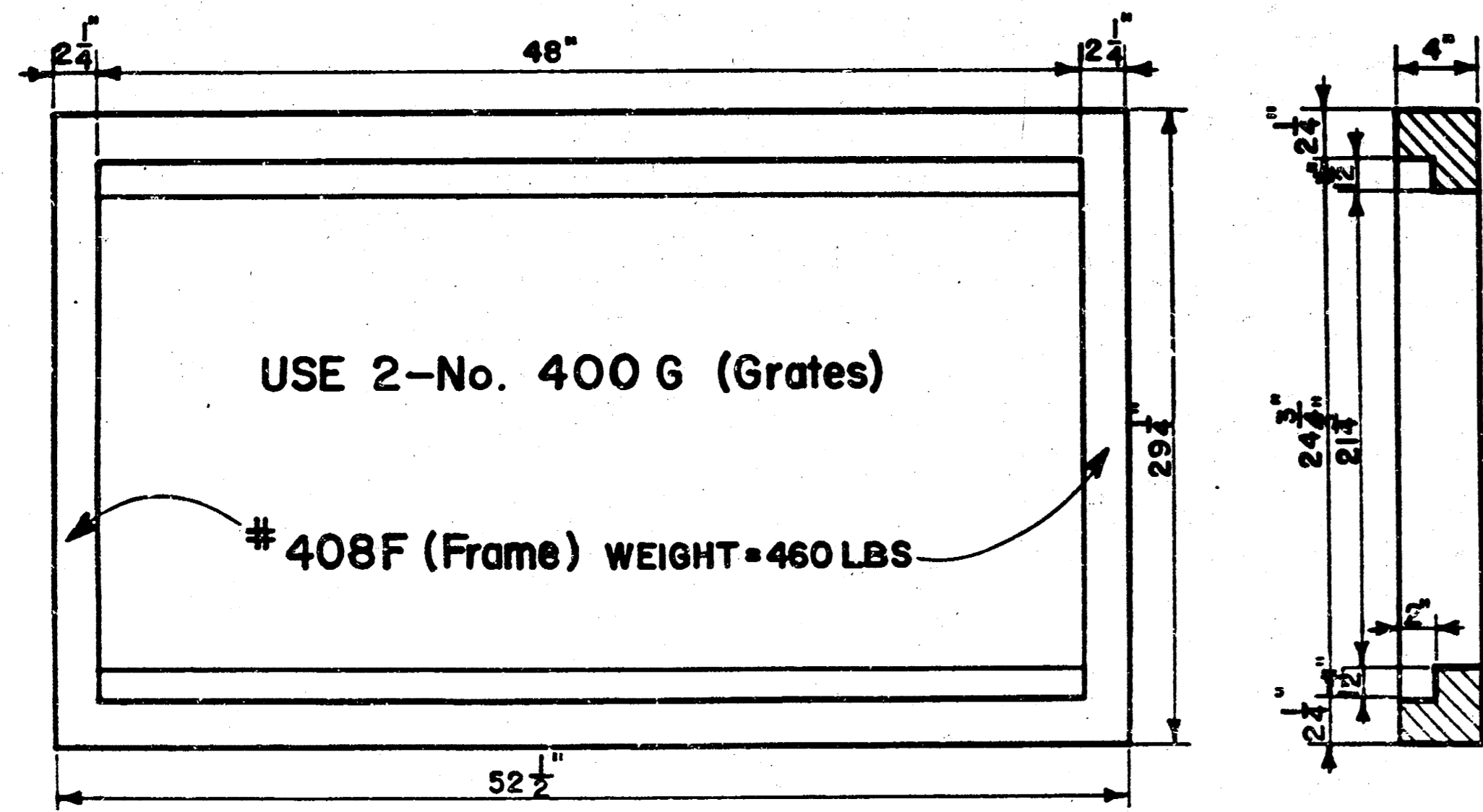
1. Use the concrete mix specified for the City of Wichita concrete pavement throughout. All exposed edges shall be finished with an edging tool. Reinforcing bars shall be bent around pipe.
2. Inlet invert shall be shaped with 8 sack mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
3. All bars are #4 with 6" spacing and shall have a minimum clearance of 1 1/2 inches unless otherwise noted on the plans.
4. When directed by the Engineer, a small opening may be required in the back of the inlet in order to drain a low area. Reinforcing bars will extend through the openings. No deductions in concrete quantities will be made for these openings.
5. No deductions will be made in pay length of curb, gutter, or curb and gutter through the inlet area.
6. Use Neenah R-3289 HV Single Inlet Frame and Grate or approved equal. Inlet frame to be proof load tested to 40,000 lbs on unsupported side.
7. Reinforcing bars shall be cut or bent around pipes. No deduction in concrete quantities shall be made for pipe openings.
8. The vanes of the grate shall be oriented with respect to the flow arrows shown on the plans.

DETAIL STANDARD TYPE II CURB INLET  
 CITY OF WICHITA, KANSAS  
 INLET OPENING = 6"x2'-3 5/8"  
 472-76-245-81759-000-000-001  
 JANUARY, 1987

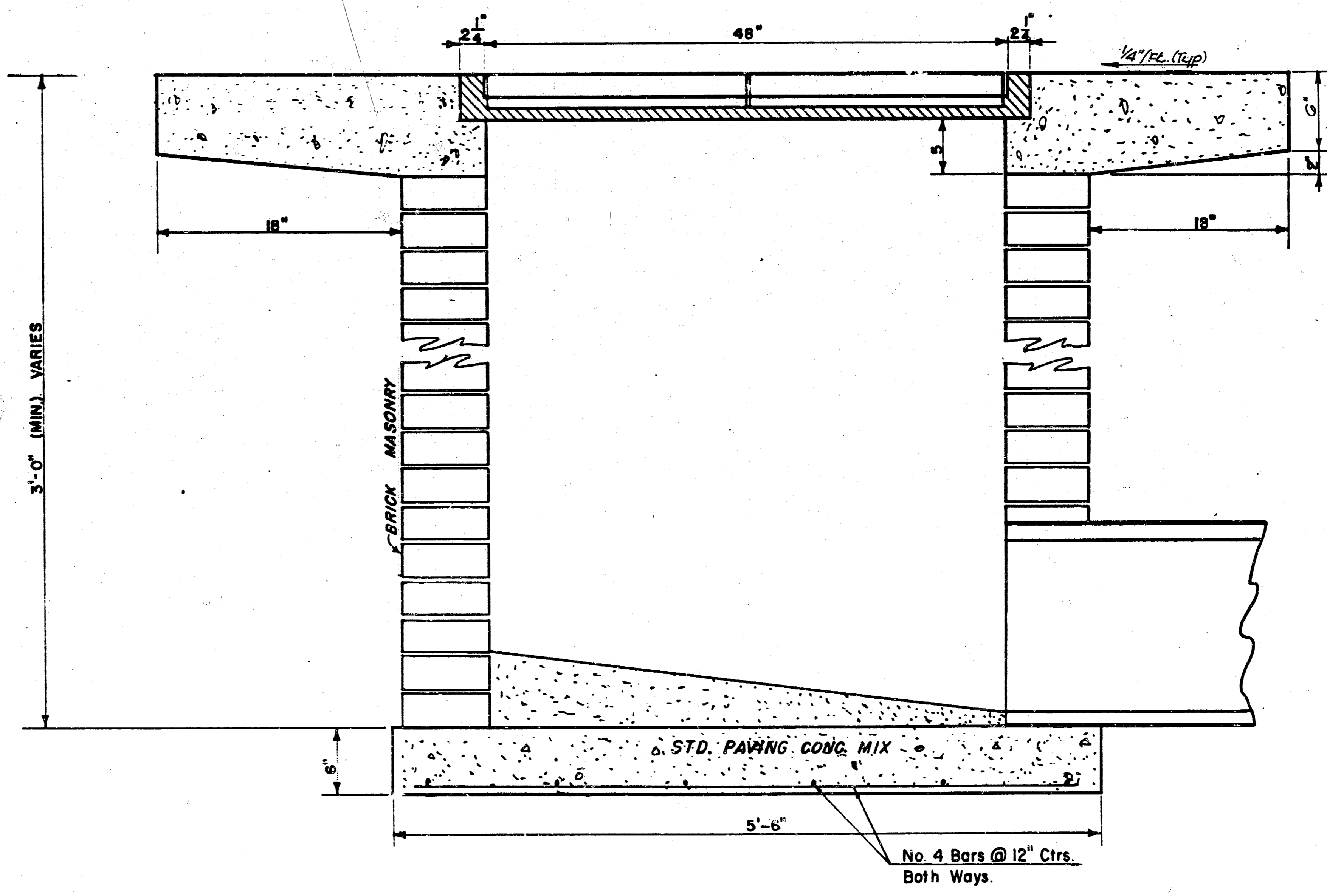
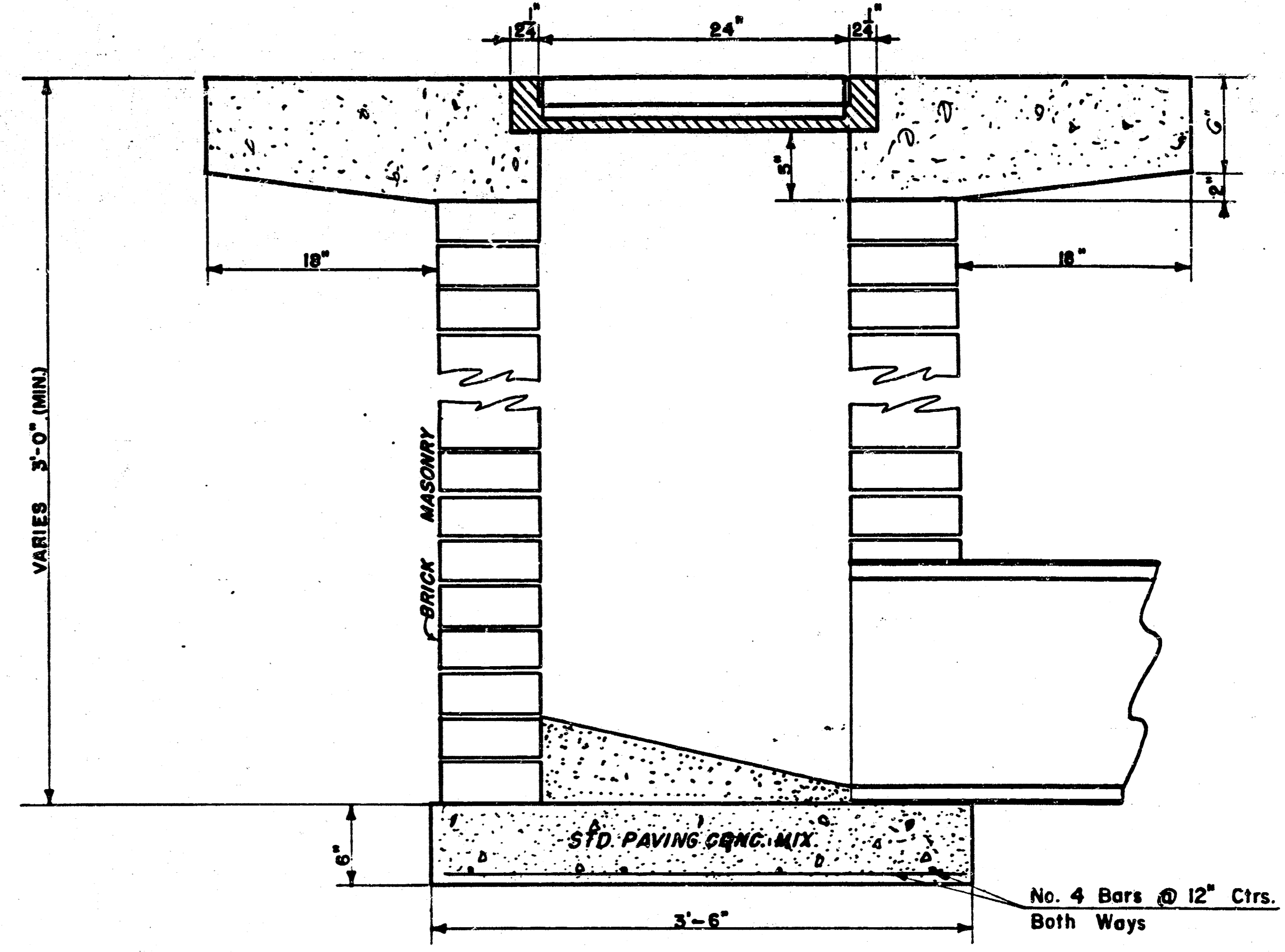
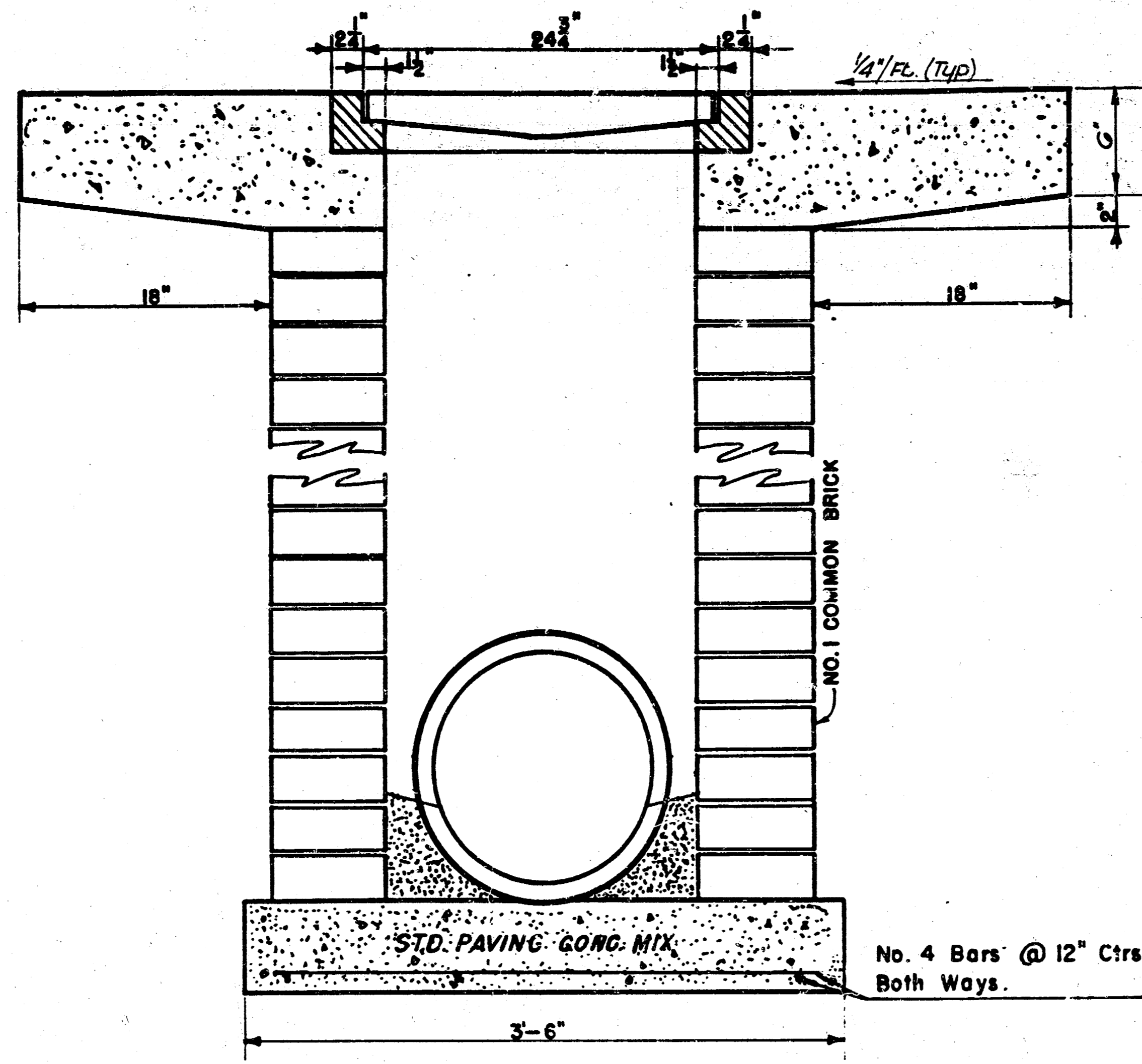
6/9  
 6  
 9



24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail

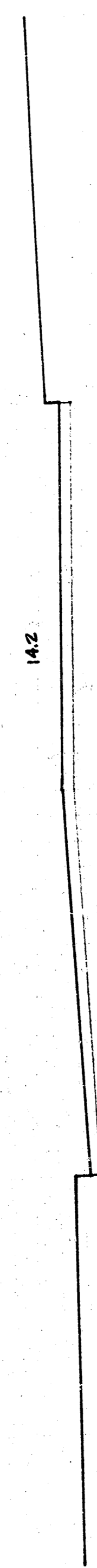


**DROP INLET DETAILS**

M.E. Lindebak, City Engineer  
 City of Wichita, Kansas  
 Project  
 Project No. 472-76-245-81759-000-000-001  
 Date:  
 Scale: 1-1/2" = 1'-0"



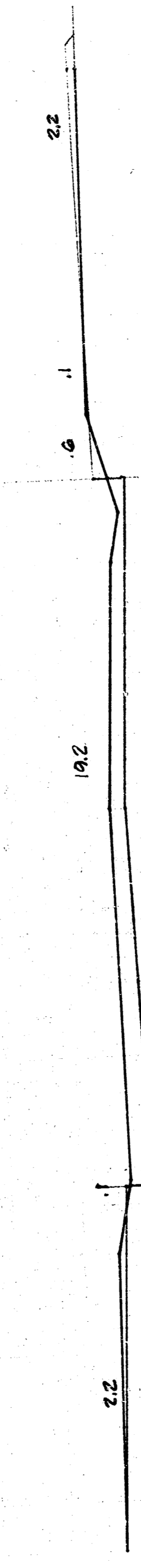
Earthwork Sections  
Lacade Ave.



Sta. 1171.5

2/15

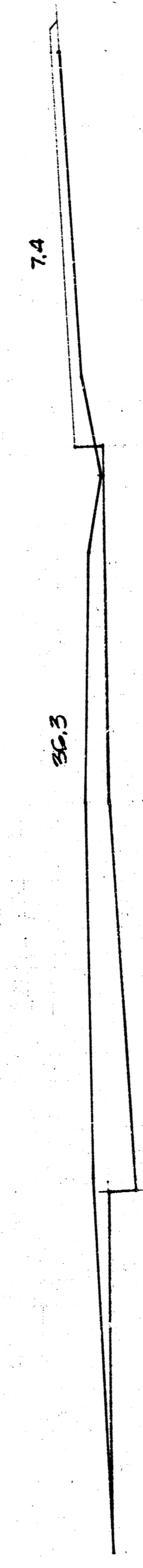
Exc. 14.2  
L. Fill 1.2



Sta. 1150

45

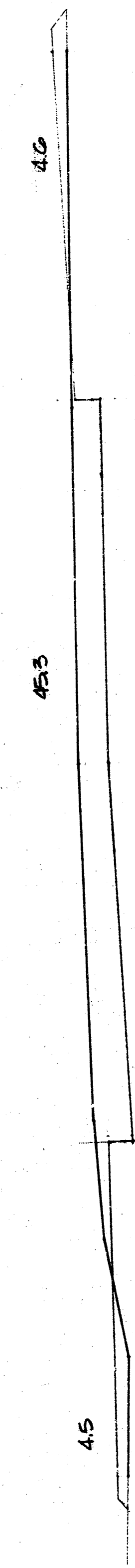
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L. Fill 6.6



Sta. 1105

60

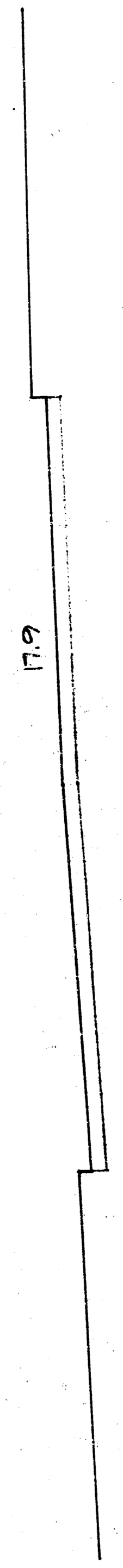
Exc. 90.7  
L. Fill 18.3



Sta. 11045

40.3

Exc. 54.2  
L. Fill 11.8



Sta. 1104.3

40  
30  
20  
10  
0  
10  
20  
30  
40  
Lacade Ave

PAGE TOTAL  
Exc. 207.3  
L. FILL 35.9