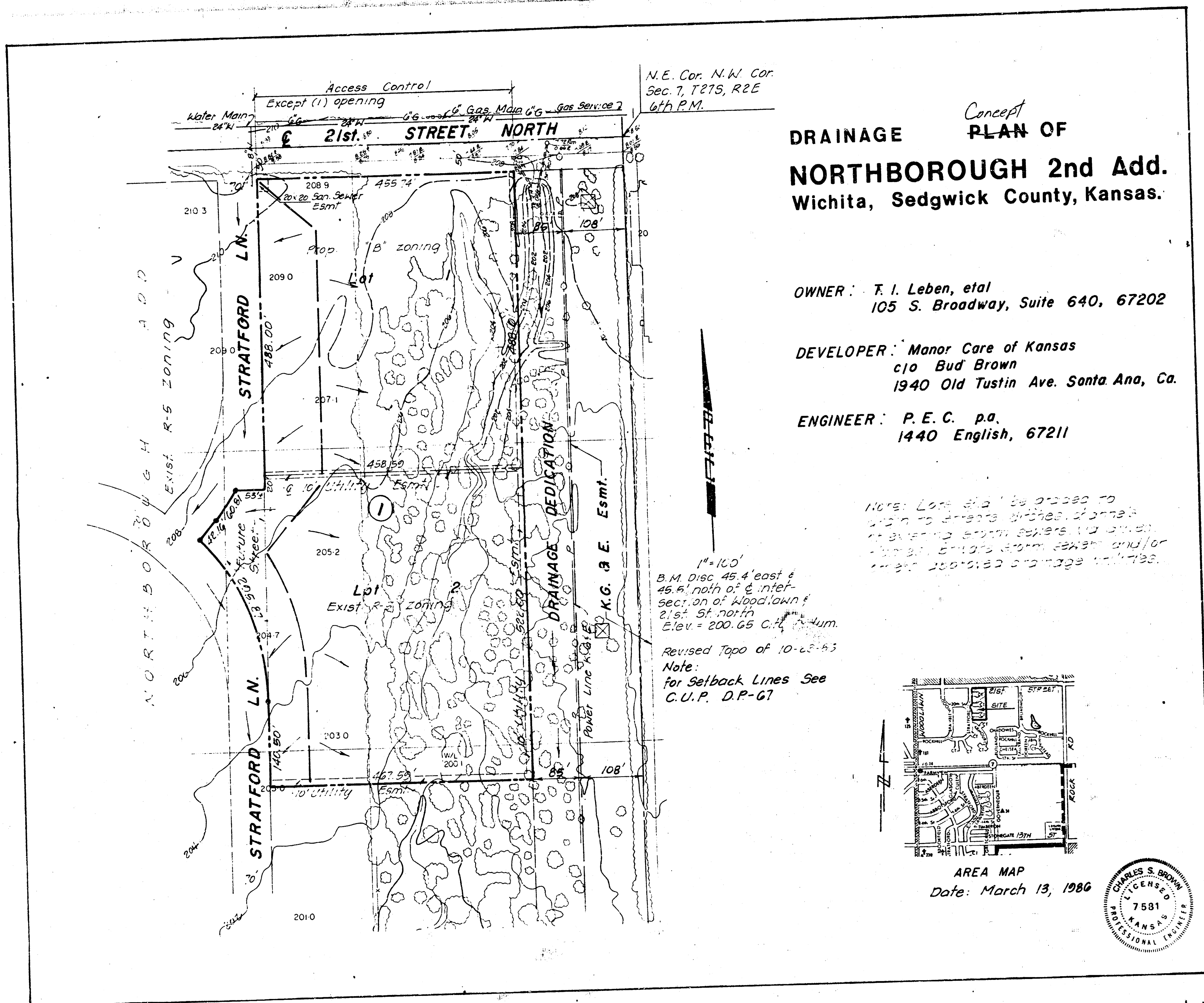




MEMO

TO: City of Wichita PROJECT NO. 36-86173-2026
PROJECT: Northborough
2nd Addition
ATTN: Chris Breitenstein, P.E. DATE: 3-18-86
FROM: Charles S. Brown, P.E.
REFERENCE: Drainage Plan Concept

COPIES TO:
Forrest Nagley, MAPD

PLEASE ADVISE IMMEDIATELY OF ANY MISCONCEPTIONS OR OMISSIONS YOU BELIEVE TO BE CONTAINED HEREIN.

Transmitted herewith are 2 prints of the Drainage Plan for the proposed Northborough 2nd Addition.

The Preliminary Plat was submitted on March 14, 1986 for hearing by the Subdivision Committee on March 27.

If you have any questions, please advise.

AGREEMENT

THIS AGREEMENT, made and entered into this 22nd day of July, 1977, by and between Theodore Gore, Trustee of the Trust created by the will of Theodore Gore, hereinafter called "Grantor," and THE CITY OF WICHITA, hereinafter called "Grantee,"

Grantor, for a good and valuable consideration, the receipt of which is hereby acknowledged, hereby grants unto Grantee an easement for the construction and maintenance of an underground storm sewer drain across the following described real property, to wit:

A strip of land 20.00 feet in width lying 10.00 feet of each side of the following described line: Beginning at a point on the east line of the 1/2 Sec. 7, T27S, R2E, 6th P.M.,

Sedgwick County, Kansas, said point being 1320.02 feet north of the S.W. corner of the tract thence west 1/4 of said east line, a distance of 140.00 feet to the end point.

The easement is to be used for the sole purpose of discharging surface water from property presently known as Lot 5, E. E. Juba's Addition to Wichita, Sedgwick Co., Ky, Kansas.

Grantee is also to construct a storm sewer to connect a surface channel for the purpose of carrying surface water from the above-described line of the storm sewer drain to the natural drainage easement shown on Grantee's plat. The location of the storm sewer shall be as shown on the following plat, to wit:

A strip of land 20.00 feet in width lying 10.00 feet of each side of the following described line: Beginning at a point on the east line of the 1/2 Sec. 7, T27S, R2E, 6th P.M.,

Sedgwick County, Kansas, said point being 1320.02 feet north of the S.W. corner of the tract thence west 1/4 of said east line, a distance of 140.00 feet to the end point.

The storm sewer shall be constructed and maintained by Grantee at all times and Grantee shall be responsible for the maintenance of the storm sewer and drainage channel on and about the above-described line.

The easement herein granted shall be binding upon the heirs, successors and assigns of both Grantor and Grantee.

Executed the day and year first above written.

Theodore Gore
Theodore Gore

Robert H. Beren
Robert H. Beren

Charles S. Brown
Charles S. Brown

Approved for Lot 3 which is 1/2 acre

STATE OF KANSAS, SEDGWICK COUNTY, ss.:
The foregoing instrument was acknowledged before me this 22nd day of July, 1977, by Theodore Gore.

My commission expires: 4/14/80

STATE OF KANSAS, SEDGWICK COUNTY, ss.:
The foregoing instrument was acknowledged before me this 22nd day of July, 1977, by Robert H. Beren.

My commission expires:

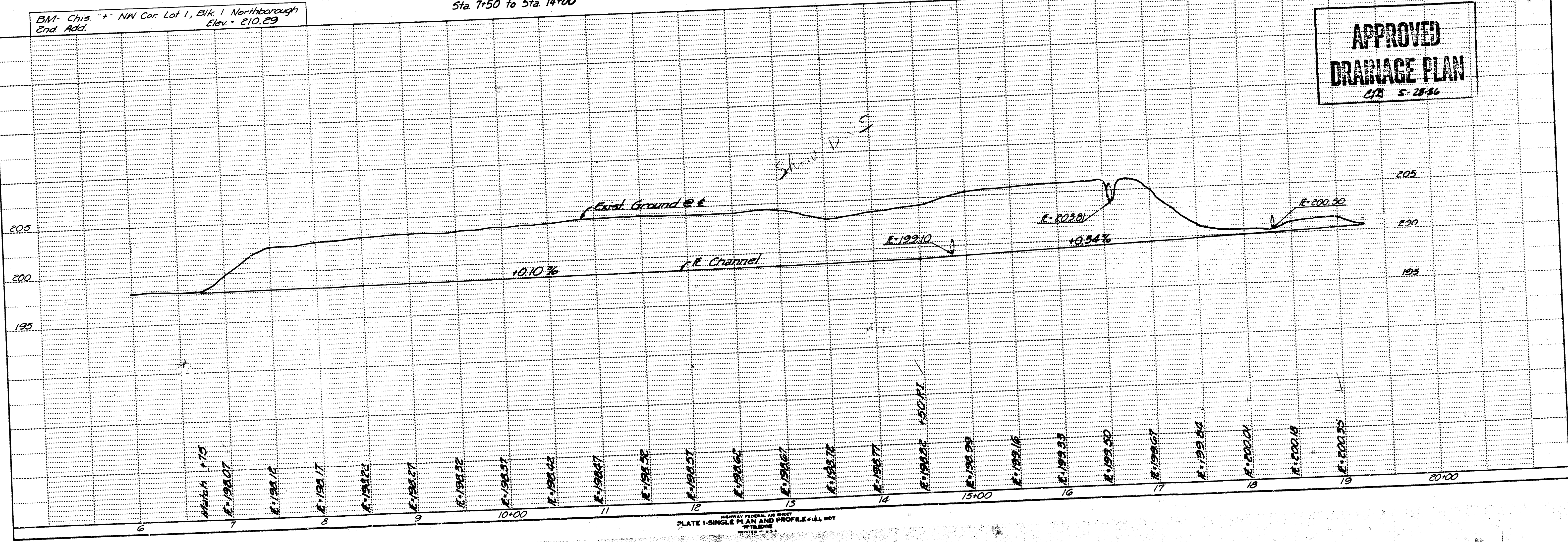
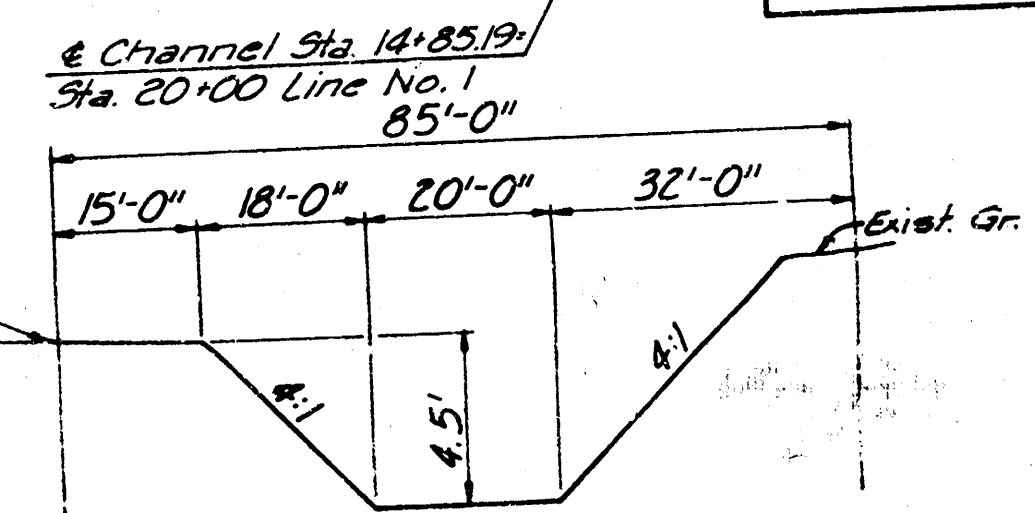
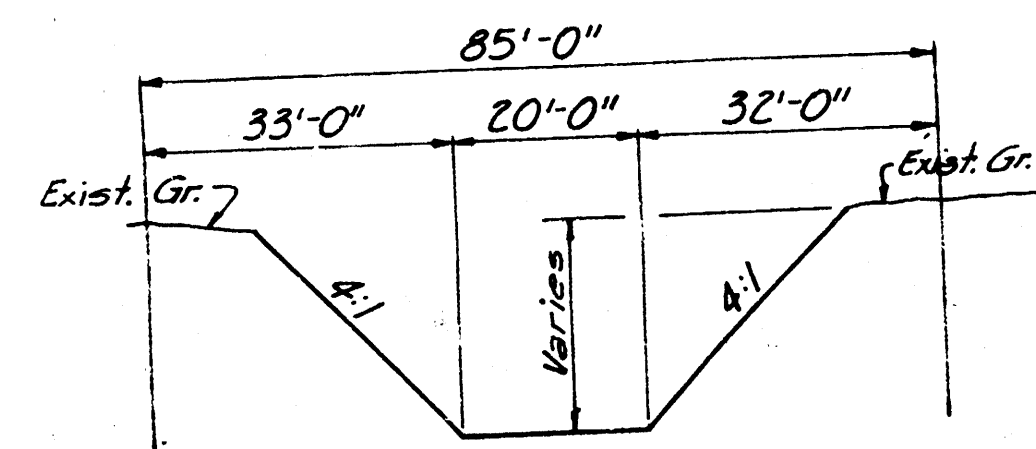
STATE OF KANSAS, SEDGWICK COUNTY, ss.:
The foregoing instrument was acknowledged before me this 22nd day of July, 1977, by Theodore Leben.

My commission expires: 8-5-78

PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	

PROFILE	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
DATE	

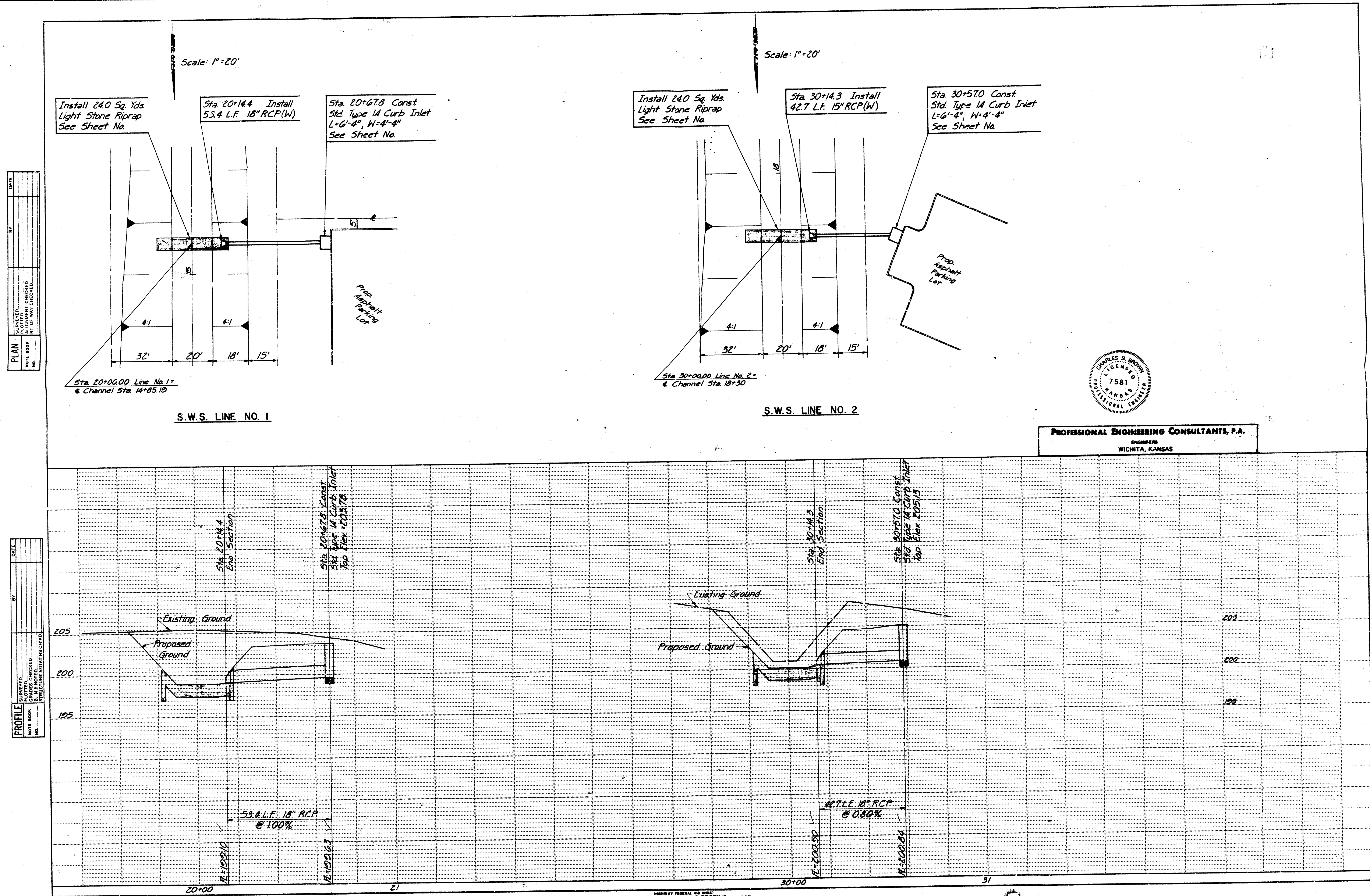
- NOTES
1. All elevations City of Wichita Datum.
 2. All construction methods & materials shall conform to City of Wichita Standard Specifications.
 3. All disturbed areas, except the channel bottom, shall be seeded, fertilized and mulched in accordance with City specifications.



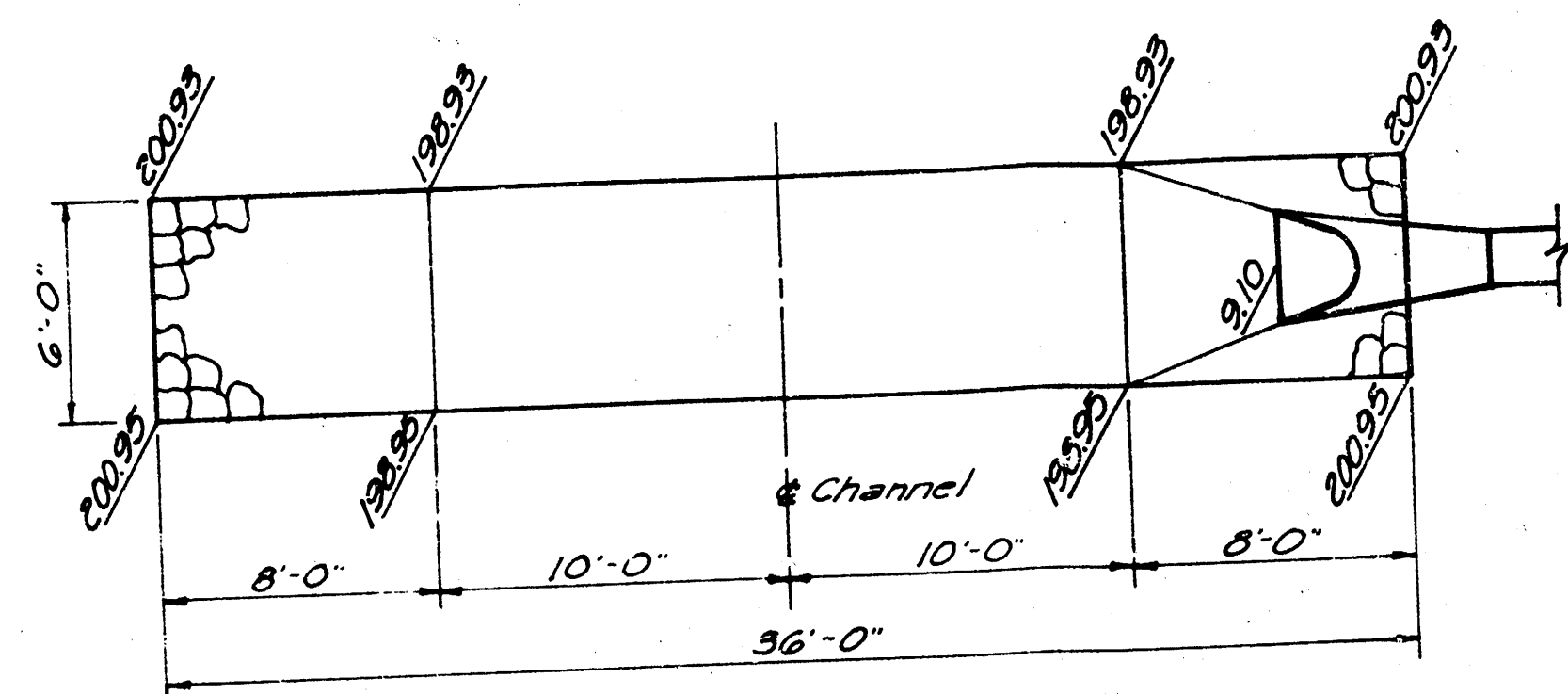
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

APPROVED
DRAINAGE PLAN
C/S 5-18-86

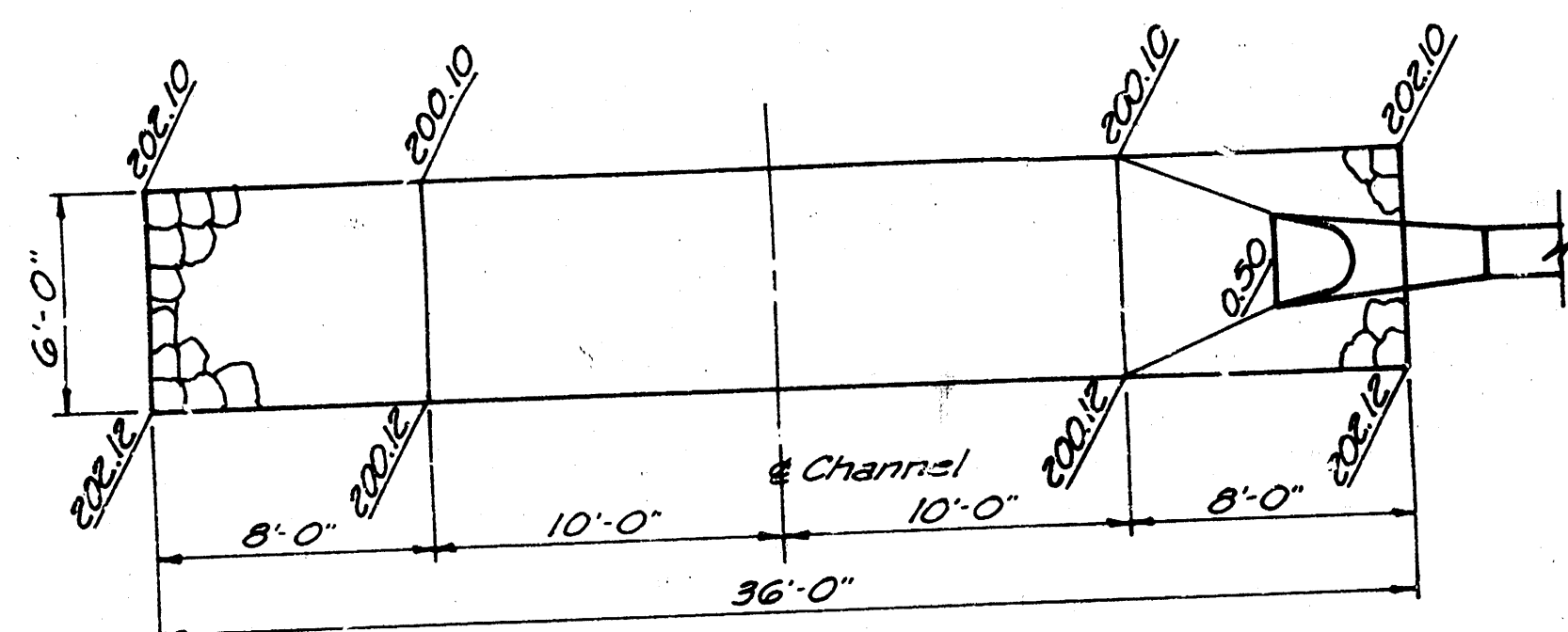
NORTHBROOK SECOND ADDITION
(Drainage)



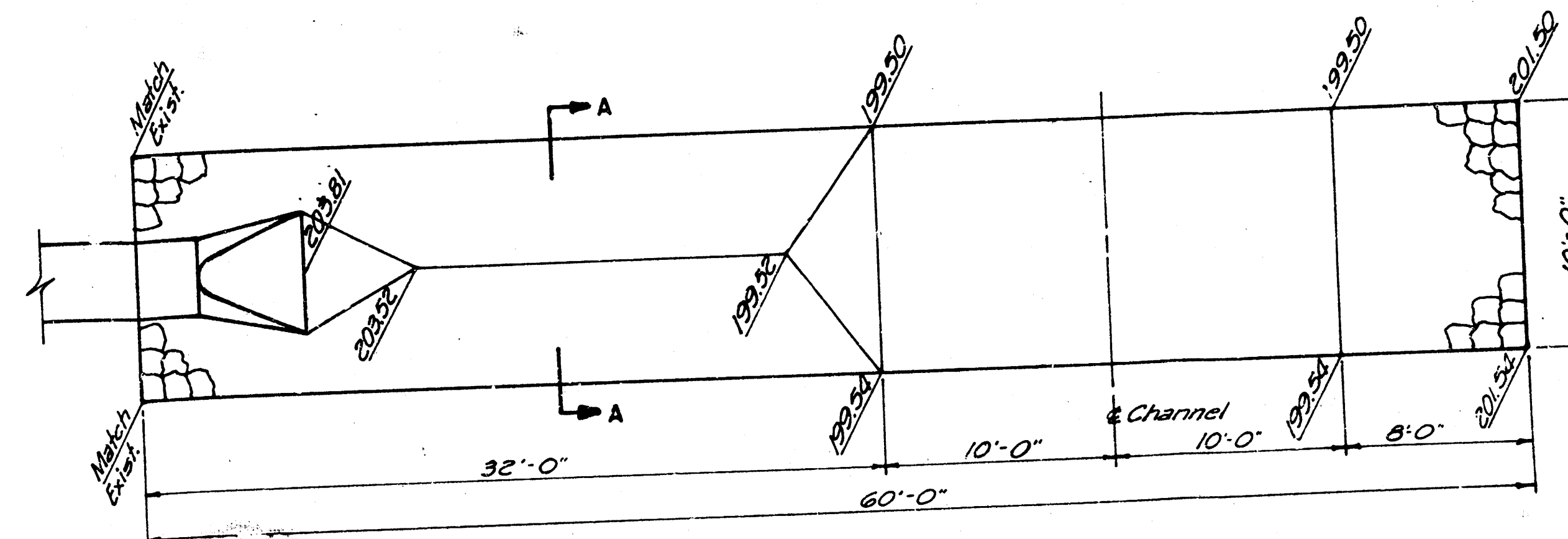
NORTHBOROUGH SECOND ADDITION
(Drainage)



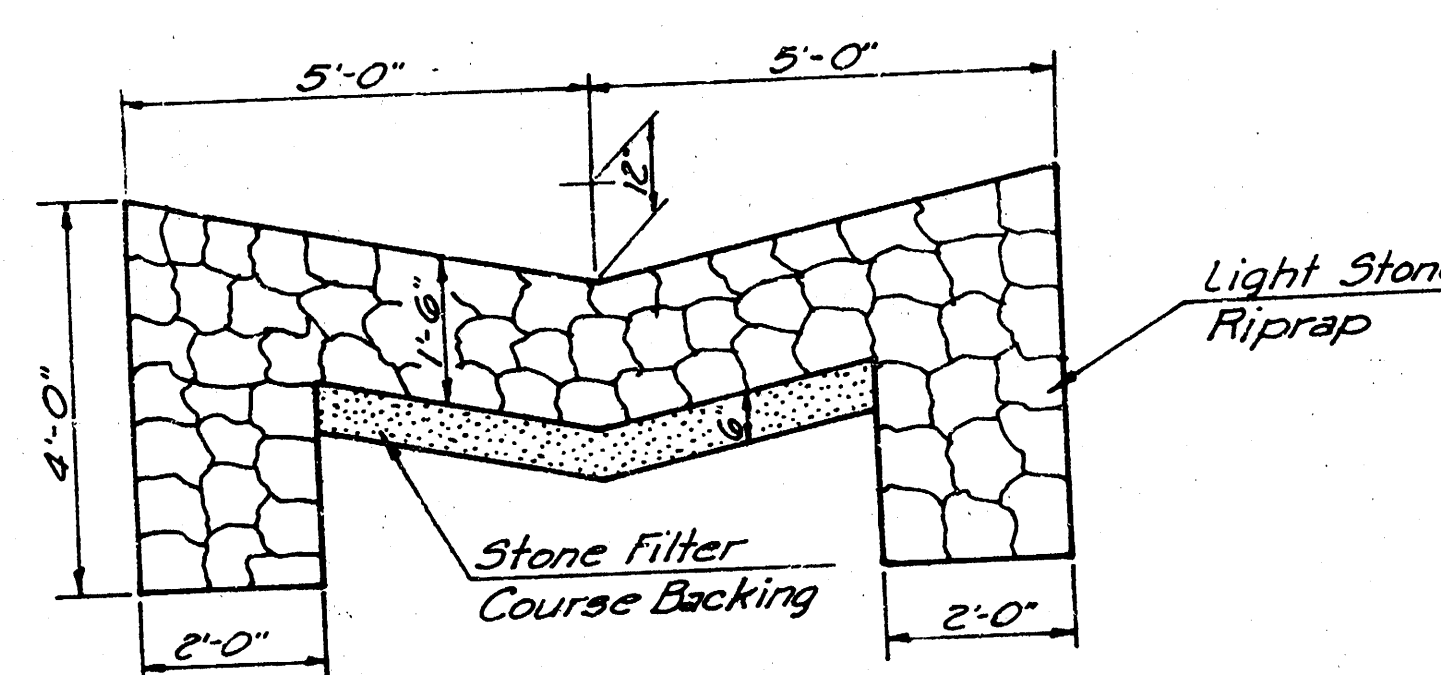
RIPRAP DETAILS
Channel Sta. 14+85.19



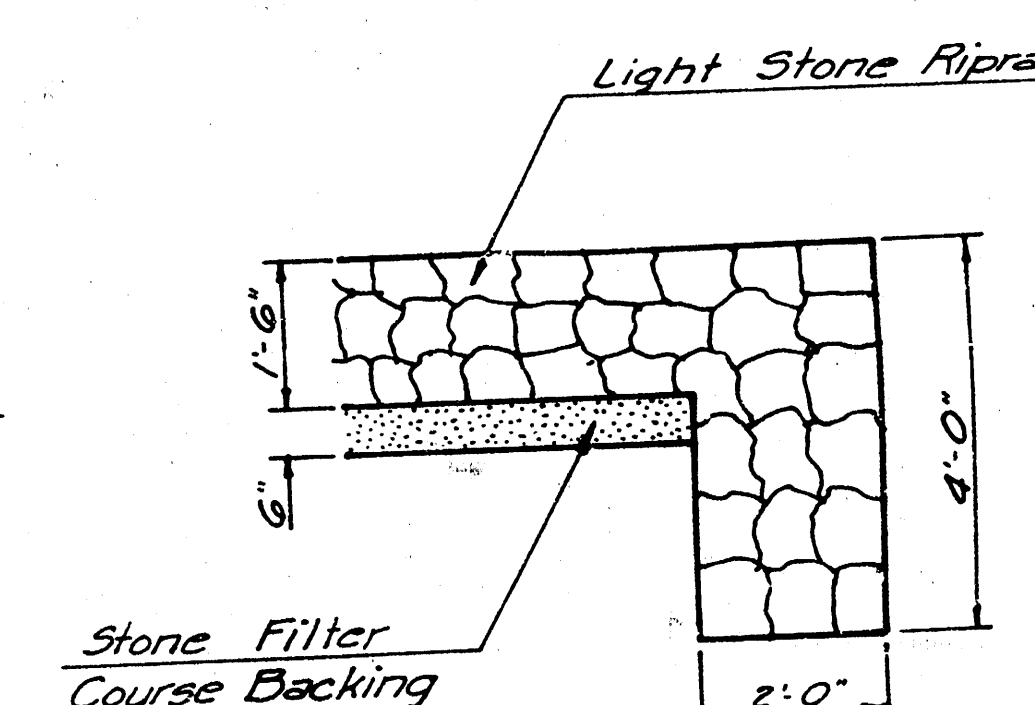
RIPRAP DETAILS
Channel Sta. 18+30



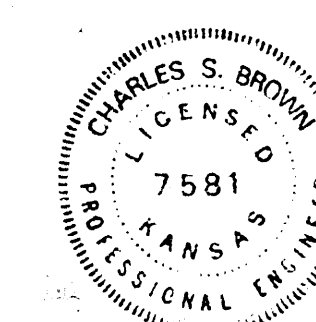
RIPRAP DETAILS
Channel Sta. 16+56



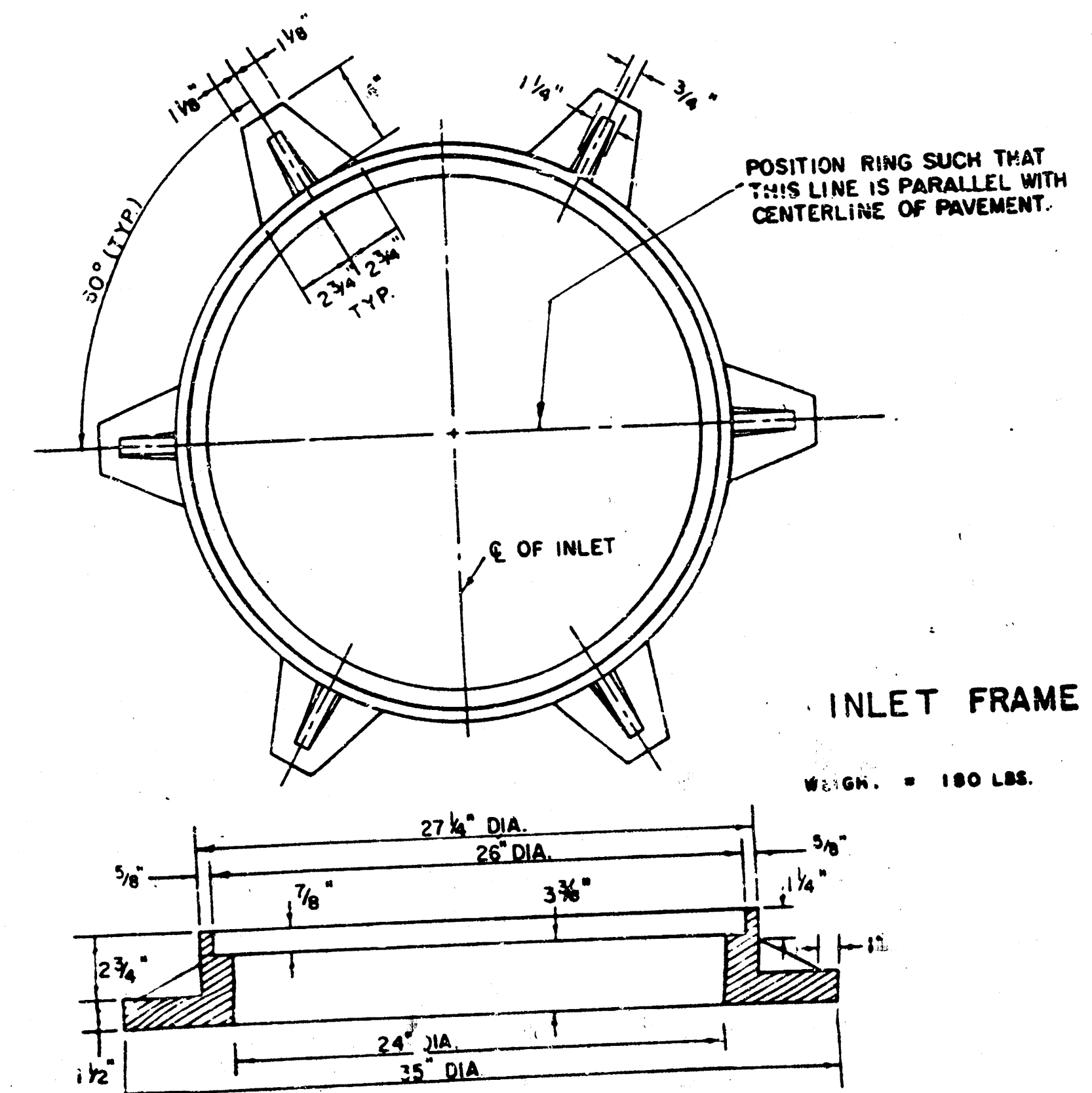
SECTION A-A



TYPICAL SECTION THRU TOEWALL
Note: Toewalls shall be installed along all edges of stone riprap.



PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS



PLAN

STEEL SCHEDULE

BAR	a ₁	a ₂	a ₃	b ₁				b ₂	b ₃	WT LBS.	
				W=4"	W=5"	W=6"	W=8"				
NUMBER	4	2	1	3	5	7	3	6	1		
SIZE	"4	"4	"4	"4	"4	"4	"4	"4	"6		
LENGTH	W=4"	5'7"	6'7"	4'0"	6'1"	—	—	1'9"	6'2"	4'8"	80"
	W=5"	7'7"	8'7"	5'0"	6'1"	—	—	1'9"	6'2"	4'8"	81"
	W=4"	9'7"	10'7"	6'0"	—	6'1"	—	1'9"	6'2"	4'8"	101"
	W=7"	11'7"	12'7"	7'0"	—	—	6'1"	1'9"	6'2"	4'8"	121"
	W=8"	13'7"	14'7"	8'0"	—	—	6'1"	1'9"	6'2"	4'8"	141"

* NOTE: a_2 BARS TO BE PLACED APPROX. 2" BELOW TOP OF INLET COVER

BENDING DIAGRAM

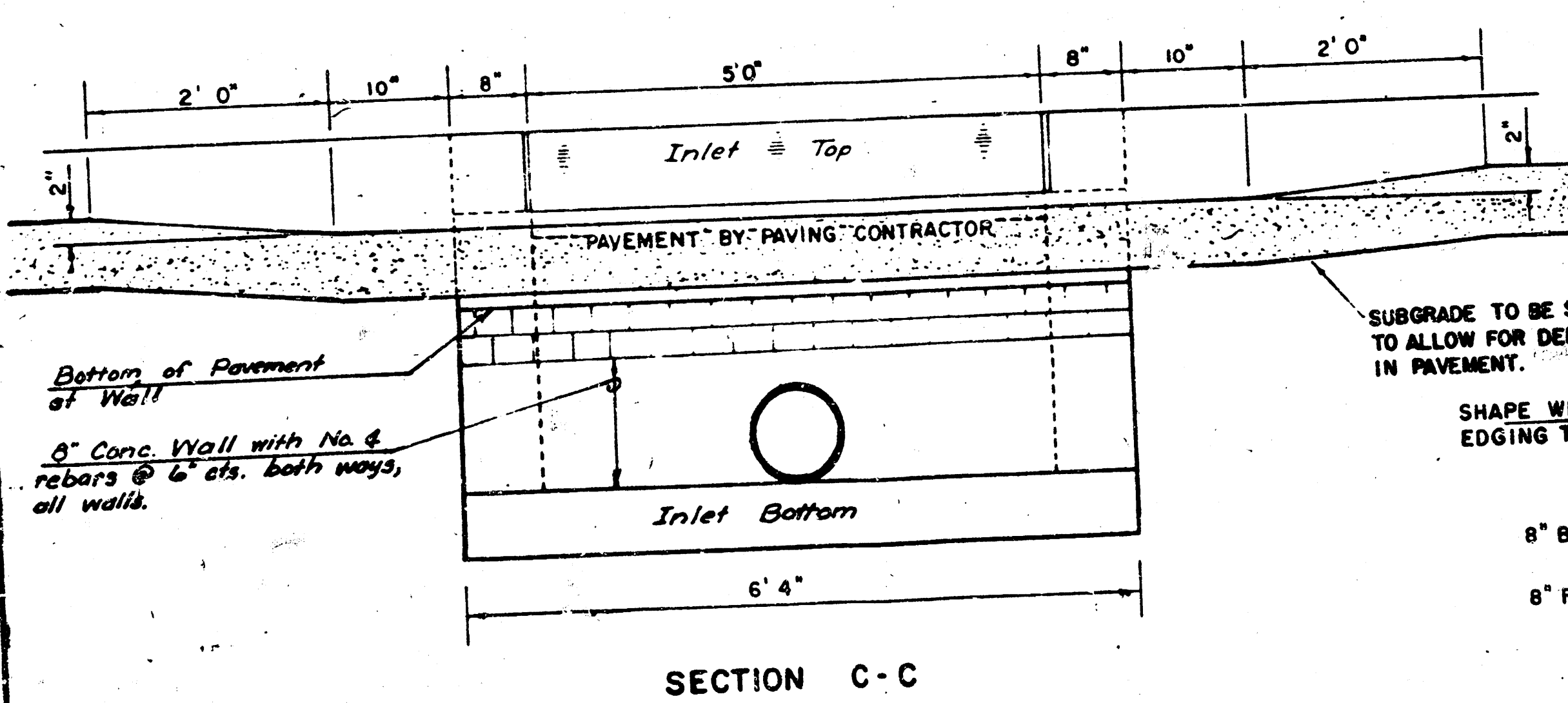
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU YD. CONC.
4' 4"	36" x 64" x 7 1/2"	21" & SMALLER	0.38 ±
5' 4"	48" x 64" x 7 1/2"	24" & 30"	0.51 ±
6' 4"	58" x 64" x 7 1/2"	36" & 42"	0.64 ±
7' 4"	68" x 64" x 7 1/2"	48" & 54"	0.77 ±
8' 4"	78" x 64" x 7 1/2"	60" & 66"	0.90 ±

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.

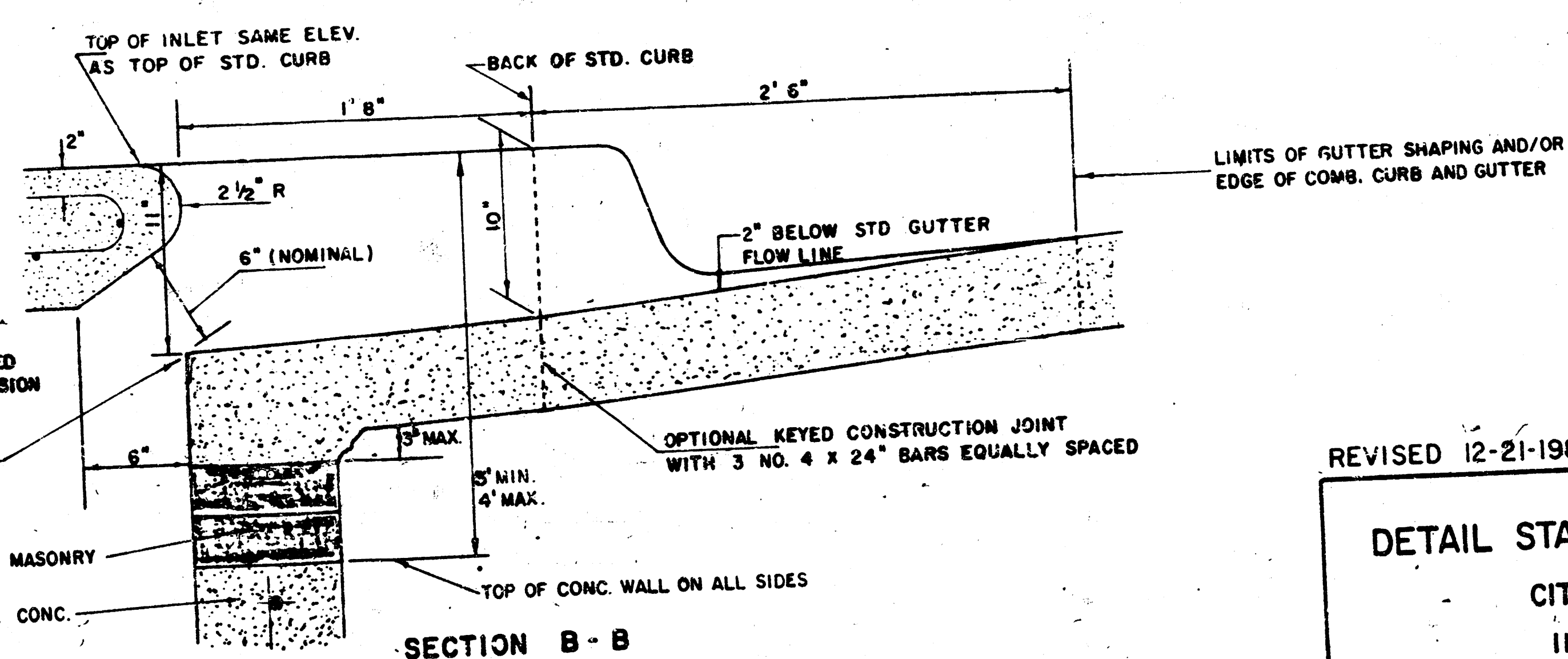
ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-
BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR
EACH INLET HOOKUP.

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
FLUSH WITH THE INSIDE FACE OF THE INLET WALL.



SECTION C - C



SECTION B - B

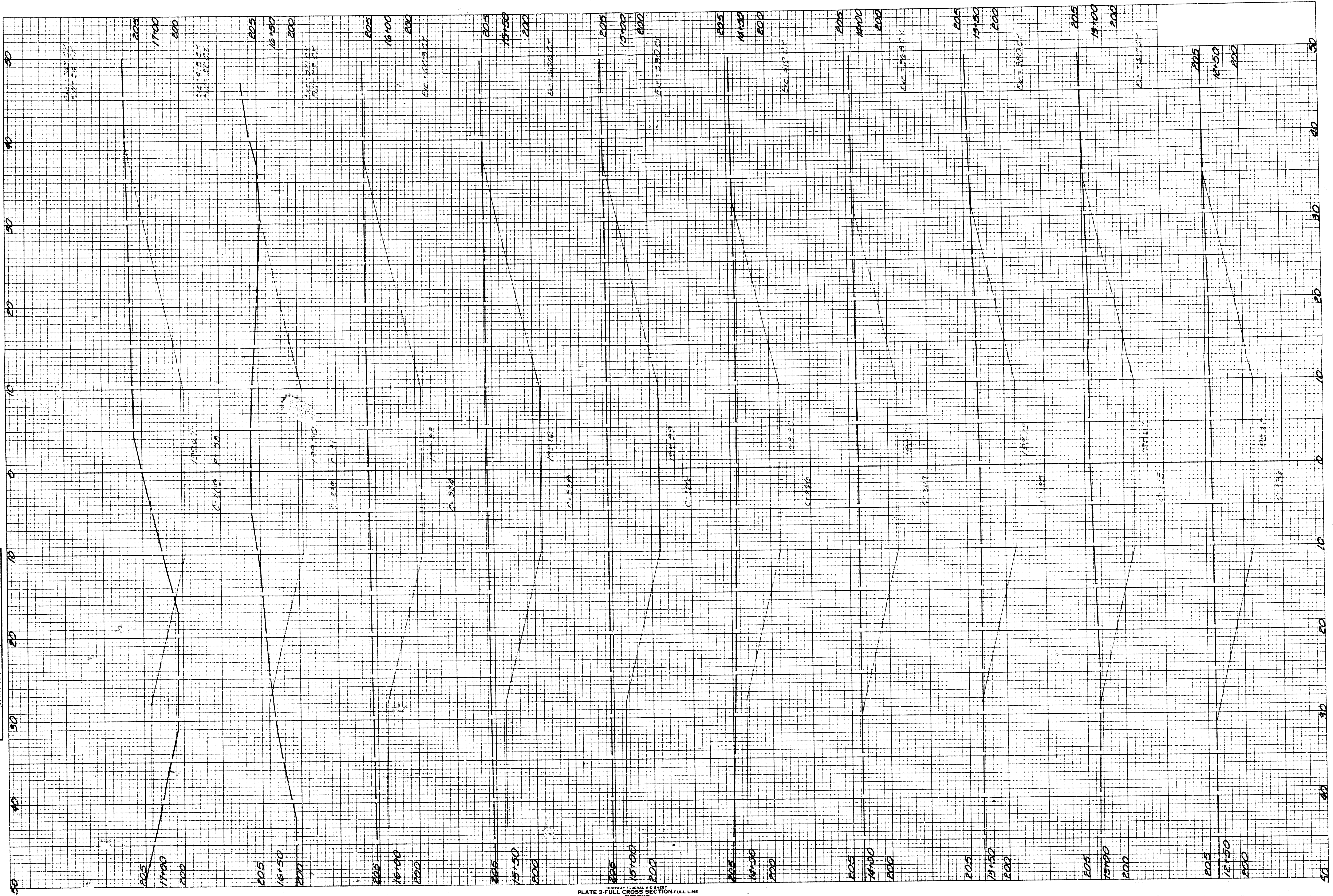
REVISED 12-21-1984

DETAIL STANDARD TYPE 1A CURB INLET
CITY OF WICHITA, KANSAS
INLET OPENING = 6" x 5' 0"

JUNE 1984

ORIGINAL SURVEY	DATE
NOTED BY	DATE

FINAL SURVEY	DATE
NOTED BY	DATE



NORTHBOROUGH SECOND ADDITION
(Drainage)

NORTHBOROUGH SECOND ADDITION
(Drainage)

FINAL SURVEY
SERVED
FOOTED
NOTE: BROWN AREA
NOT TO SCALE

ORIGINAL SURVEY
SERVED
FOOTED
NOTE: BROWN AREA
NOT TO SCALE

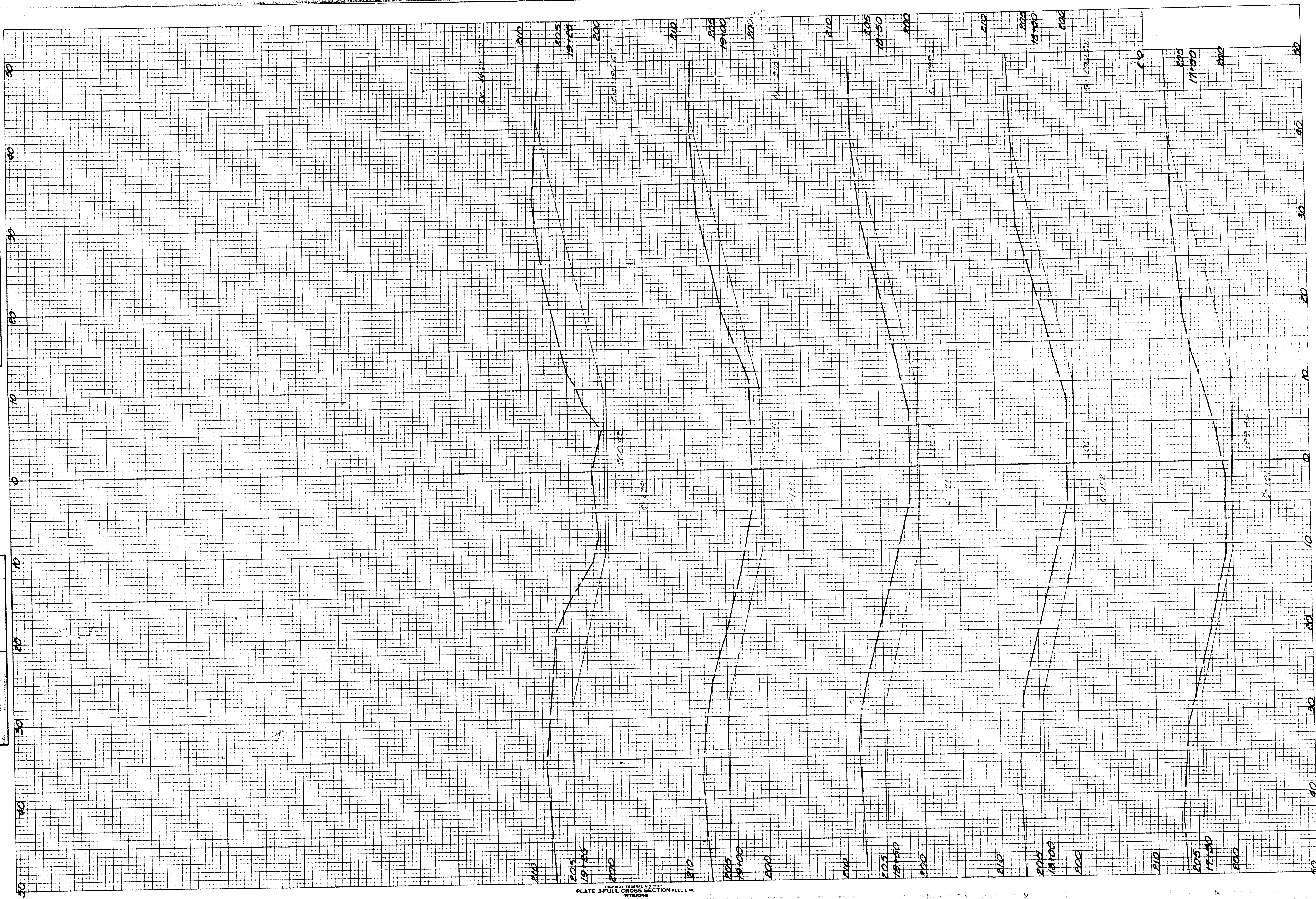


PLATE 3-FULL CROSS SECTION-FULL LINE
WITH LINE

