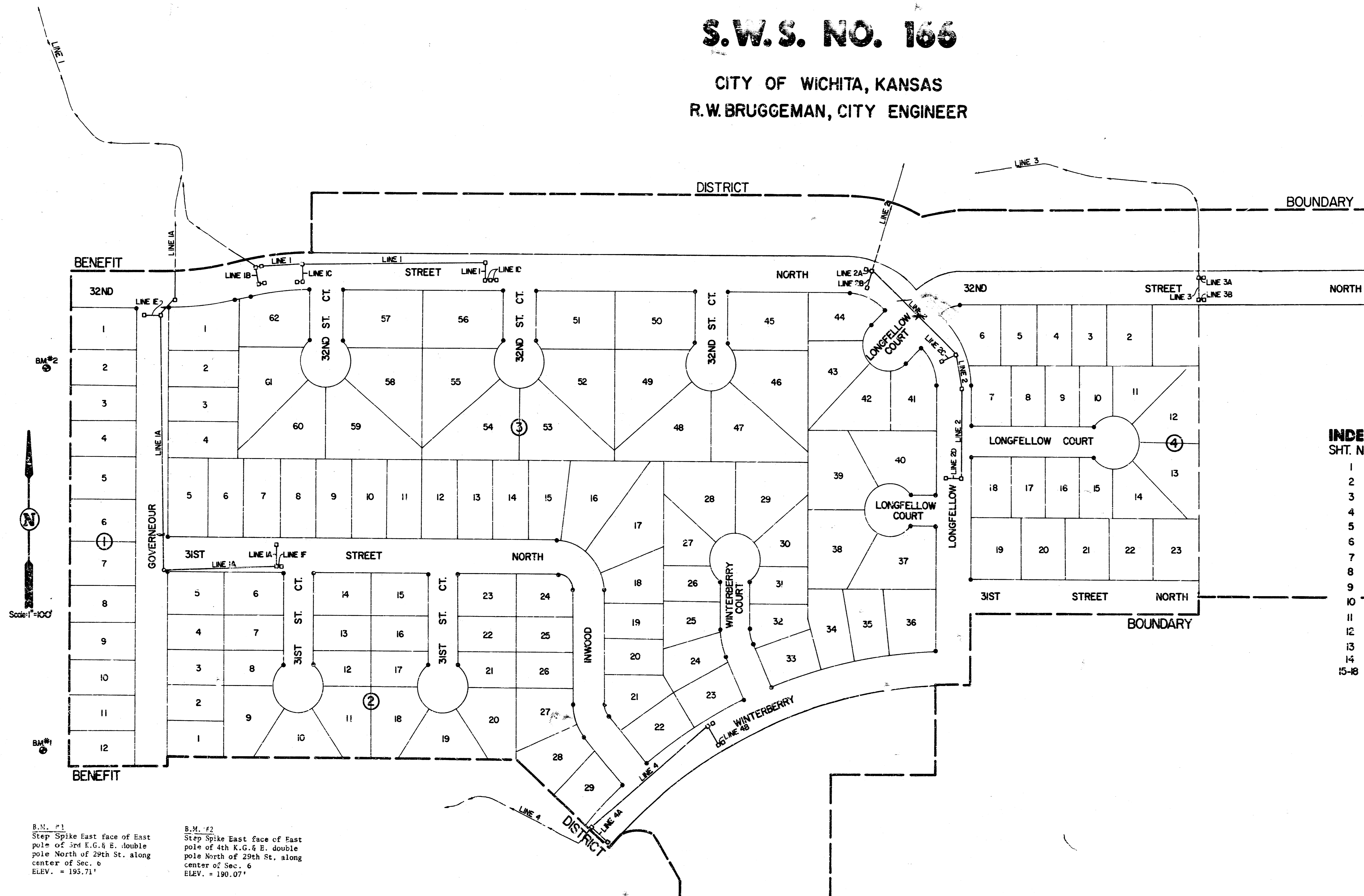


STORM SEWERS IN COTTONWOOD VILLAGE FOURTH ADDITION

PROJECT NO. 468-76-245-80793-000-000-001

S.W.S. NO. 166

CITY OF WICHITA, KANSAS
R.W. BRUGGEMAN, CITY ENGINEER



INDEX TO DRAWINGS	DESCRIPTION
1	TITLE SHEET
2	LINE 1
3	GENERAL NOTES & LINE 1 & 1B
4	LINE 1, C, & D
5	LINE 1A, E & LINE 2
6	LINE 1A
7	LINE 1A, F, LINE 3, 3A & 3B
8	LINE 2
9	LINE 2, 2A, 2B, 2C & 2D
10	LINE 3
11	LINE 4
12	LINE 4, 4A & 4B
13	TYPE 1A CURB INLET DETAIL
14	WASH CHECK
15-18	CROSS SECTIONS

B.M. #1
Step Spike East face of East pole of 3rd E.G. & E. double pole North of 29th St. along center of Sec. 6
ELEV. = 195.71'

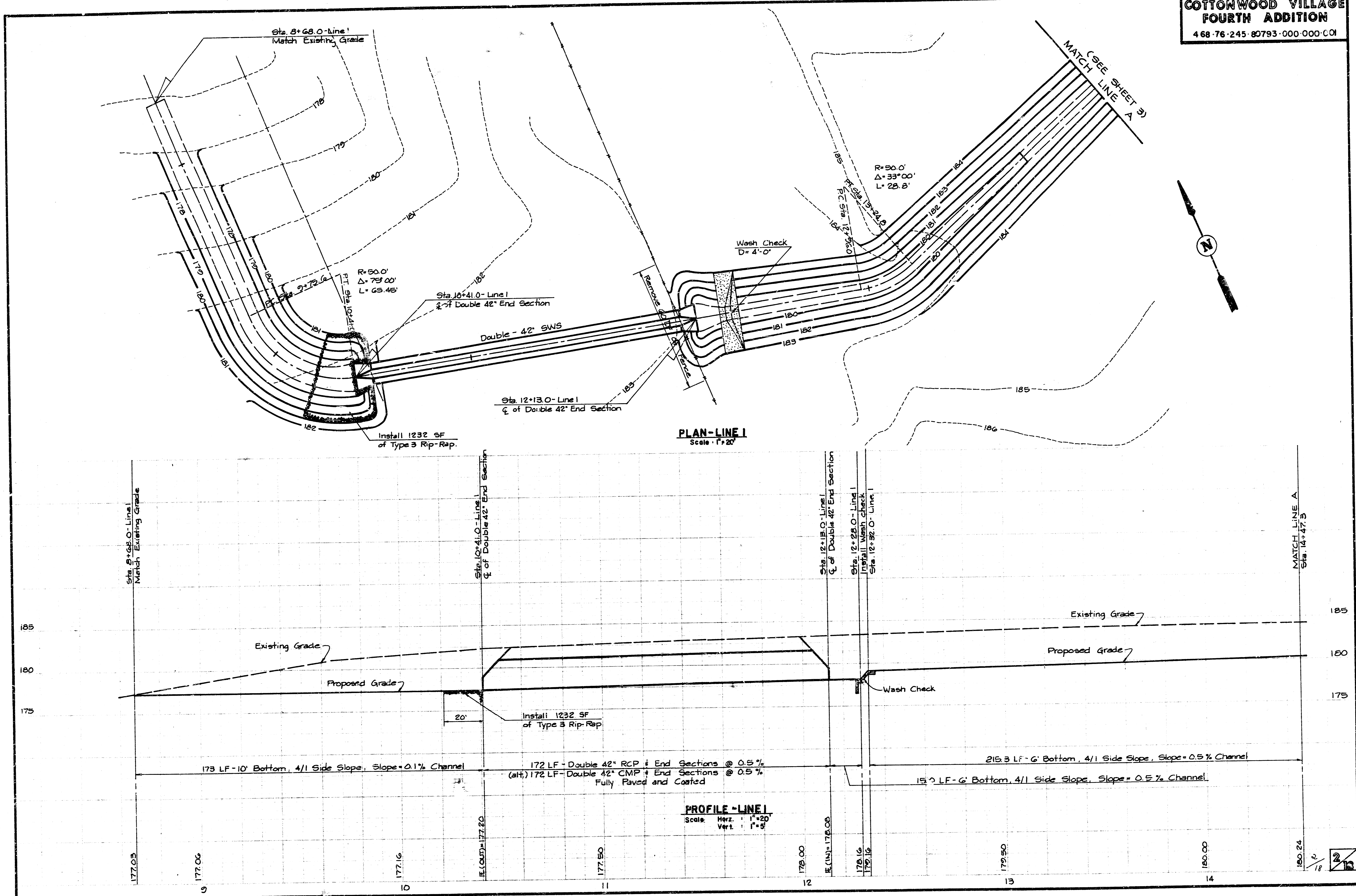
B.M. #2
Step Spike East face of East pole of 4th K.G. & E. double pole North of 29th St. along center of Sec. 6
ELEV. = 190.07'



Van Doren Hazard Stalings
Architects - Engineers - Planners
Topeka - Wichita - Minneapolis - Kansas City

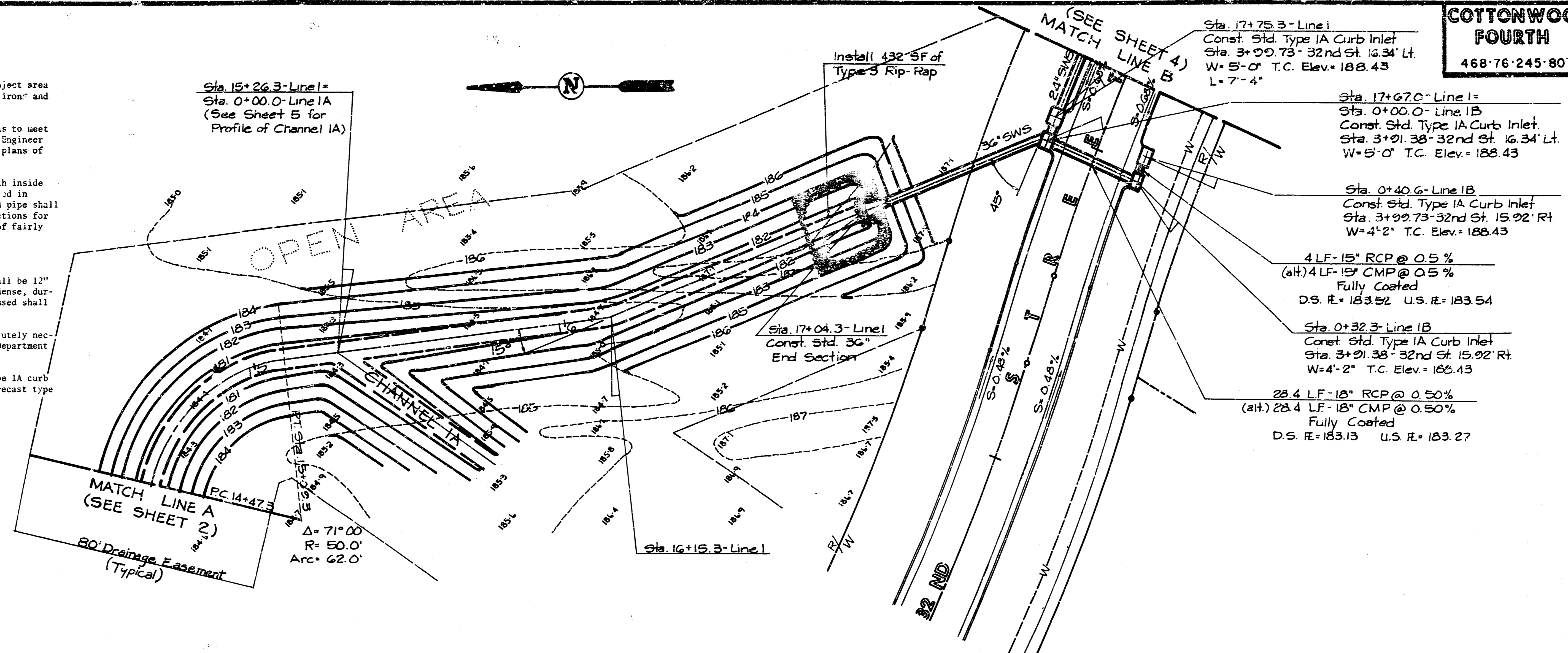
Sheet 1 of 18

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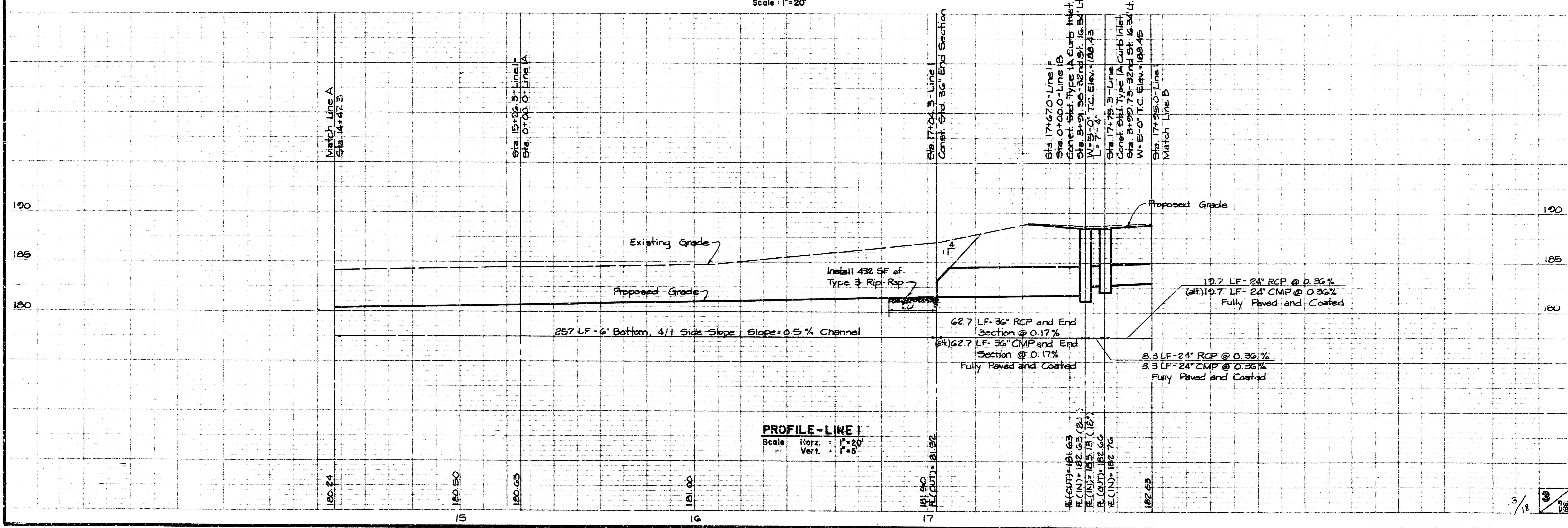


GENERAL NOTES

- Field Engineer shall take ties to all irons and thimbles in the project area before construction begins. Field Engineer shall replace all such iron and thimbles disturbed during construction.
- The tops of inlets and manholes as noted on the plans may vary so as to meet proposed top of curb elevations or pavement elevations. The Field Engineer shall locate inlets and manholes with reference to proposed paving plans of the pertinent streets.
- All metal pipes shall be helically corrugated pipe fully coated both inside and outside. The coating may be bituminous or polymeric as specified in AASHTO Designation: M246 - 78, Type B. All such coated corrugated pipe shall be smooth flow pipes for sizes 24" diameter and larger. All connections for these fully coated or fully paved and fully coated pipes shall be of fairly watertight construction using hugger type coupler or equal.
- All concrete shall be Standard Paving Mix unless otherwise noted.
- The riprap for this project shall be type 3. The type 3 riprap shall be 12" riprap. The rock for riprap and gravel protection shall be hard, dense, durable and shall be reasonably well graded. The size range of rock used shall be a maximum of one cubic foot and a minimum of 1 1/2".
- Contractor shall avoid uncovering existing water lines unless absolutely necessary. Uncovering shall be done only in the presence of a Water Department Engineer.
- Contractor shall have the option of installing precast concrete type IA curb inlets in lieu of the brick type structure. See standard detail precast type IA curb inlet, dated August, 1979.

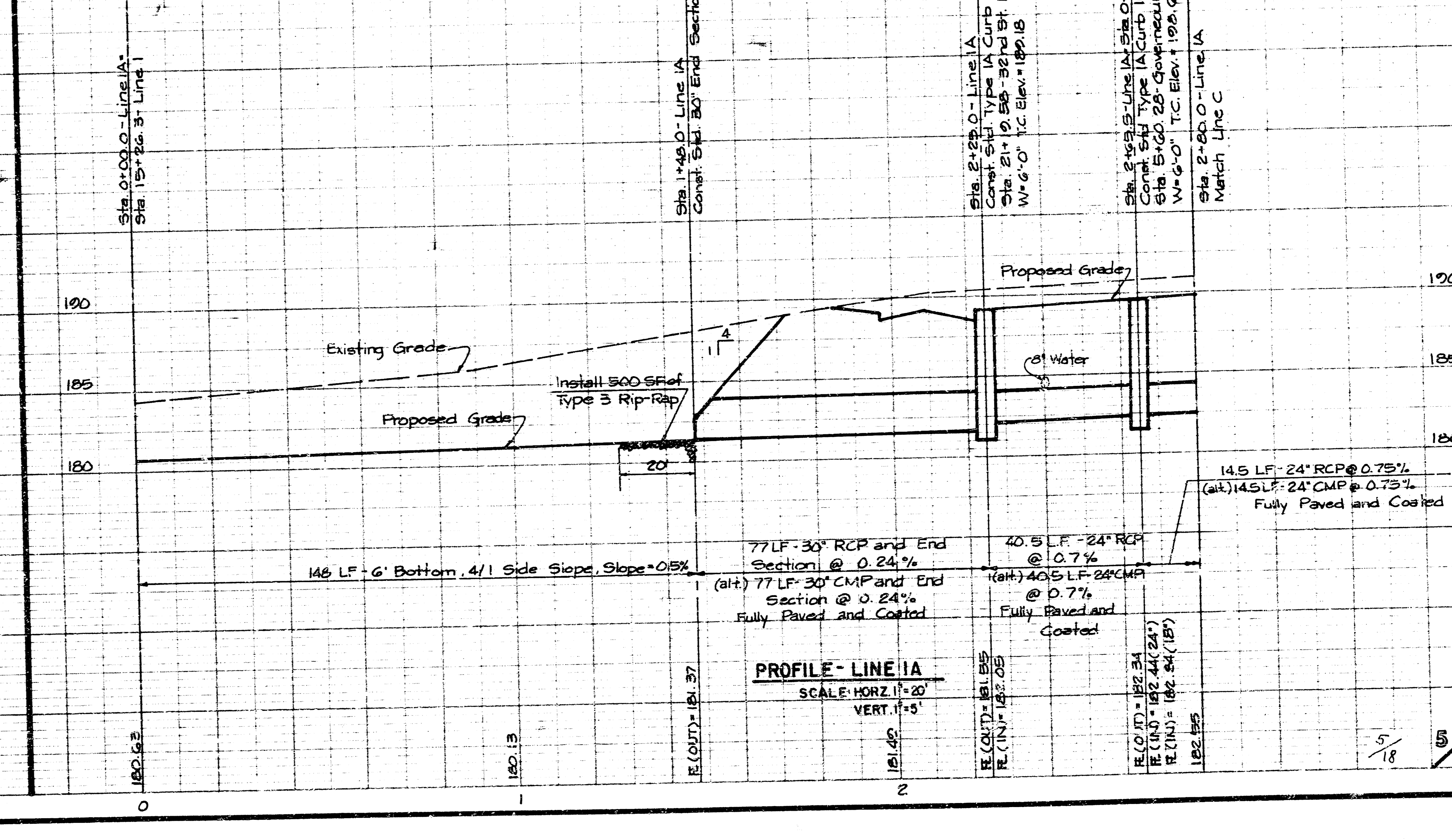
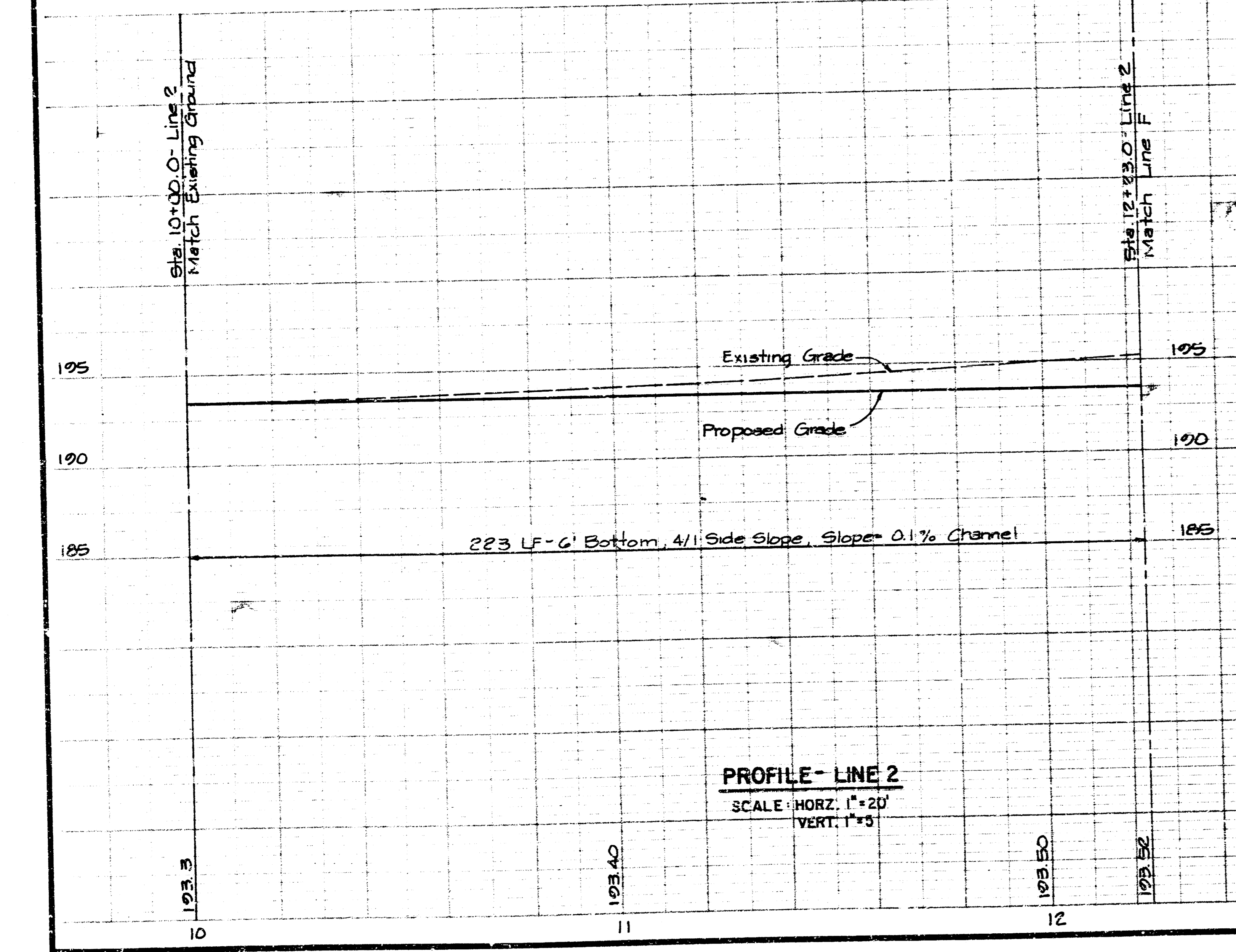
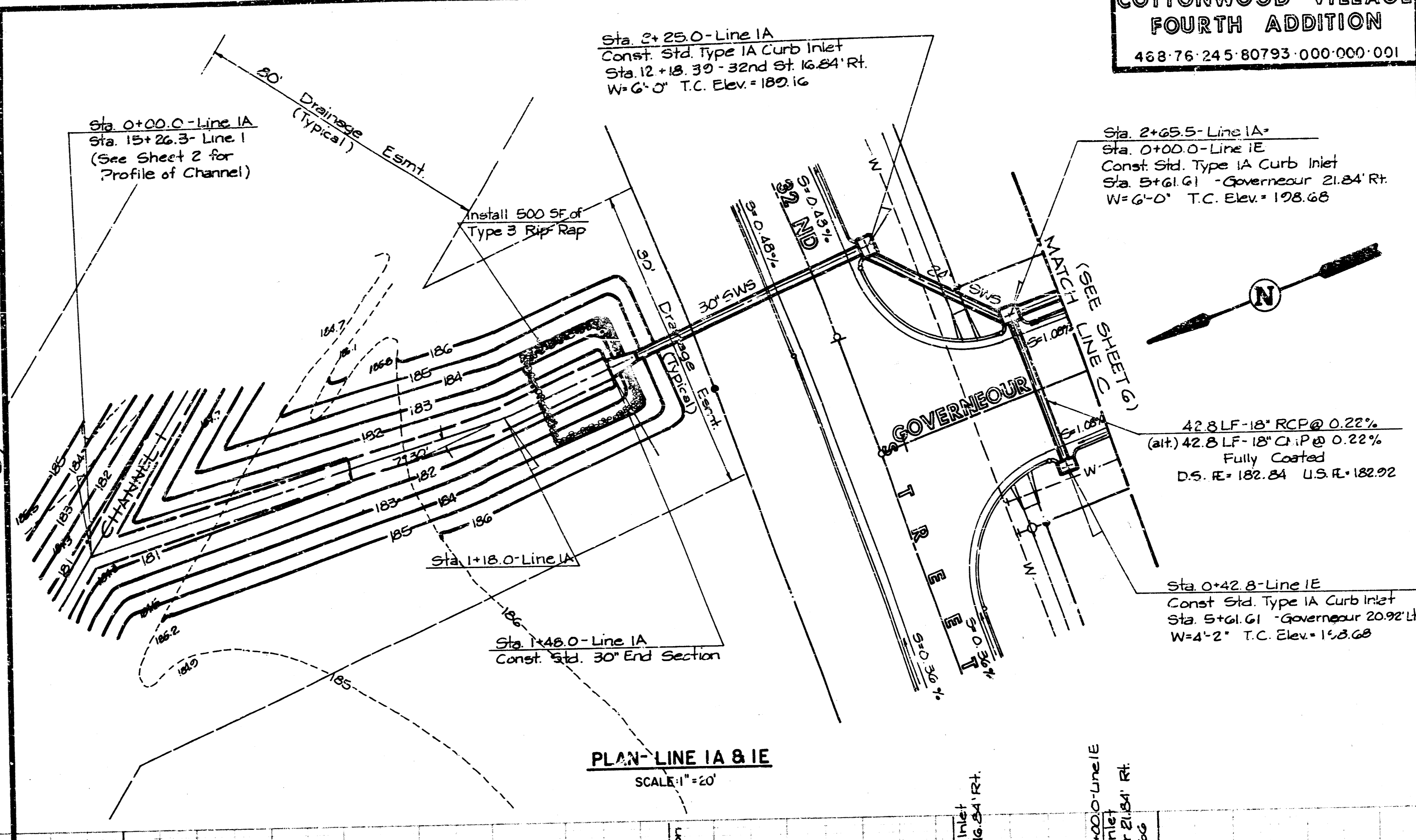
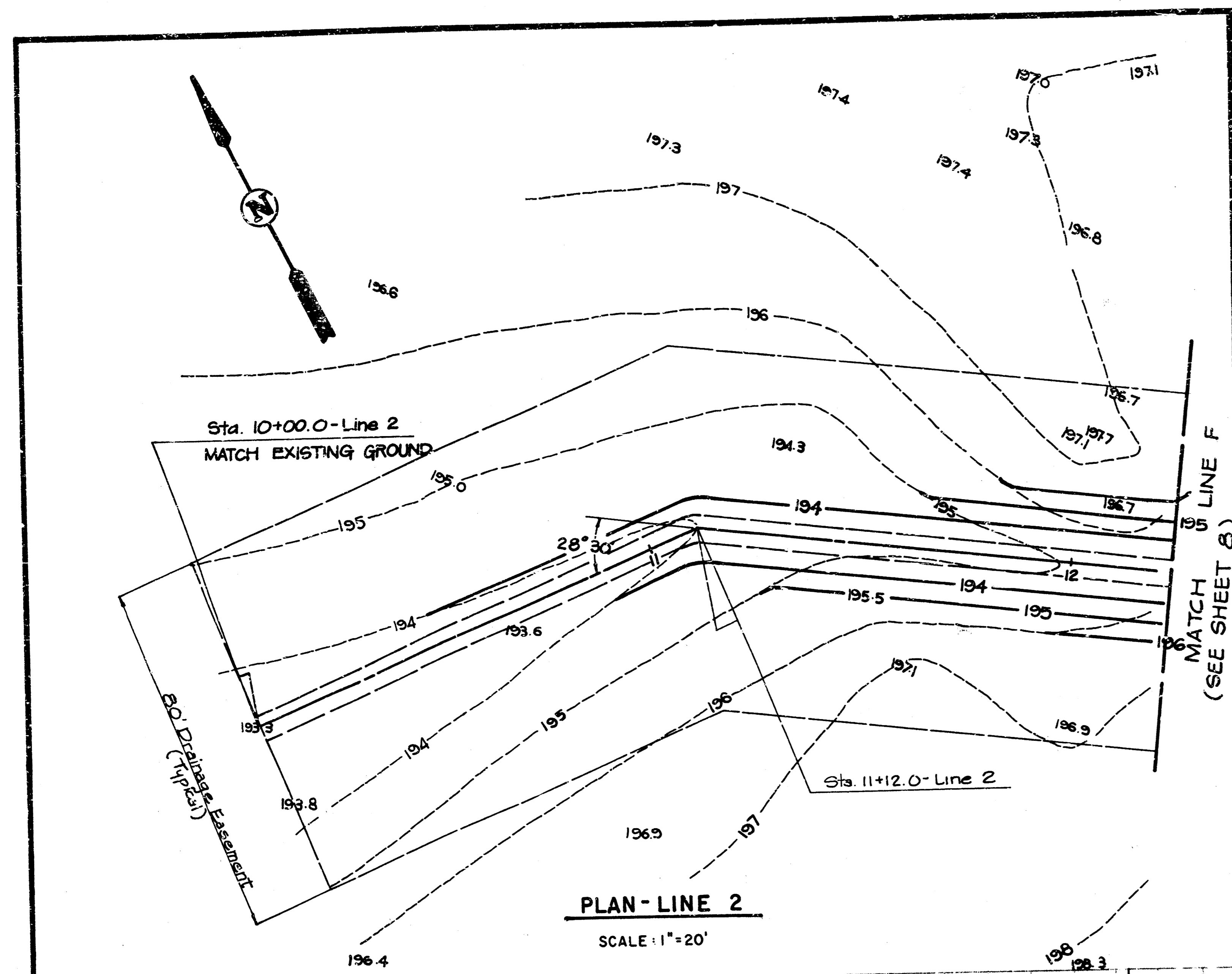


PLAN-LINE I
Scale 1"=20'

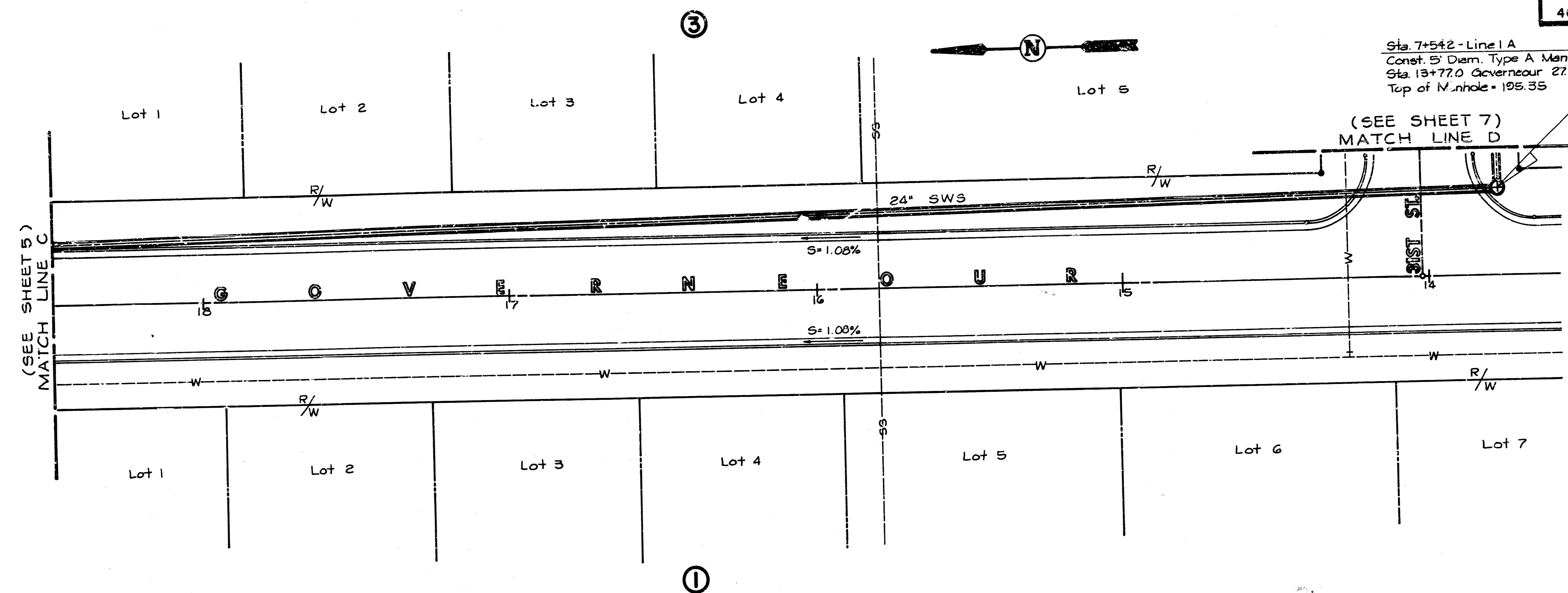


PROFILE-LINE I
Scale Horiz. 1"=20' Vert. 1"=5'

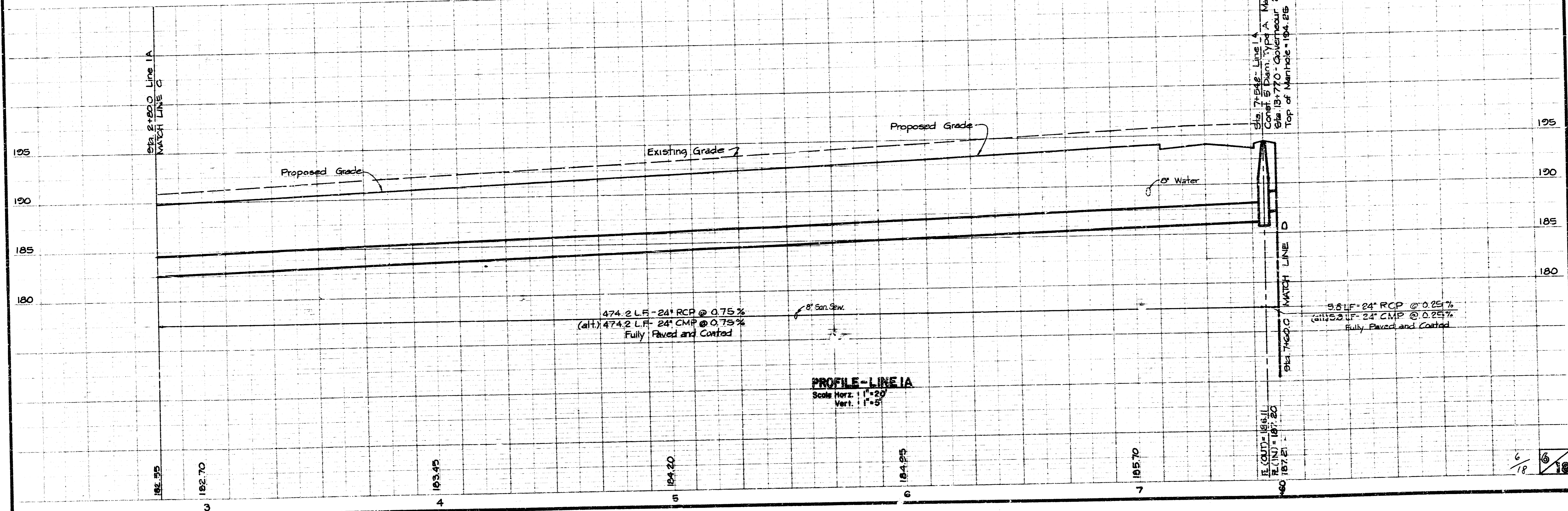
**COTTONWOOD VILLAGE
FOURTH ADDITION**
468 76 245 80793 000 000 001



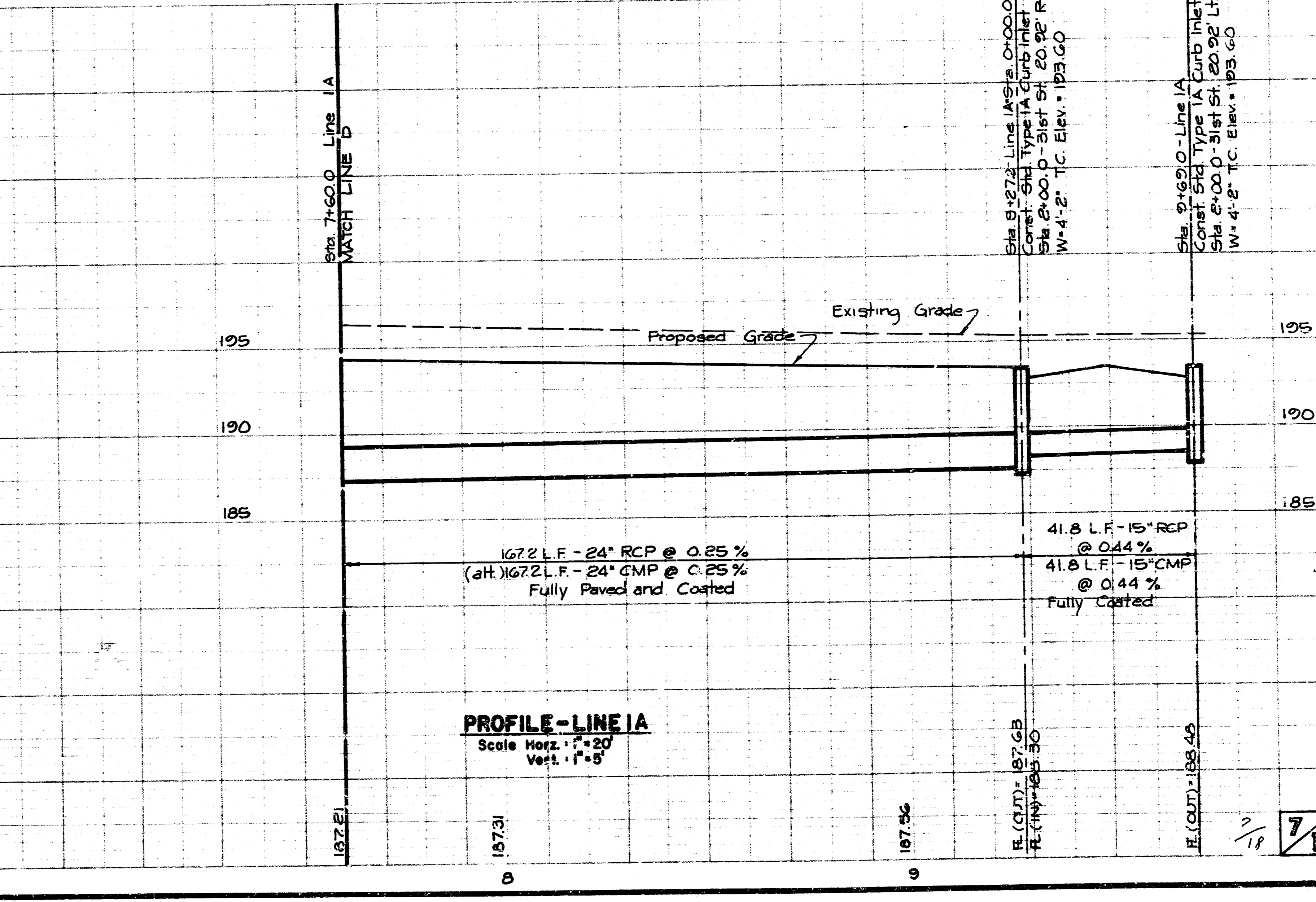
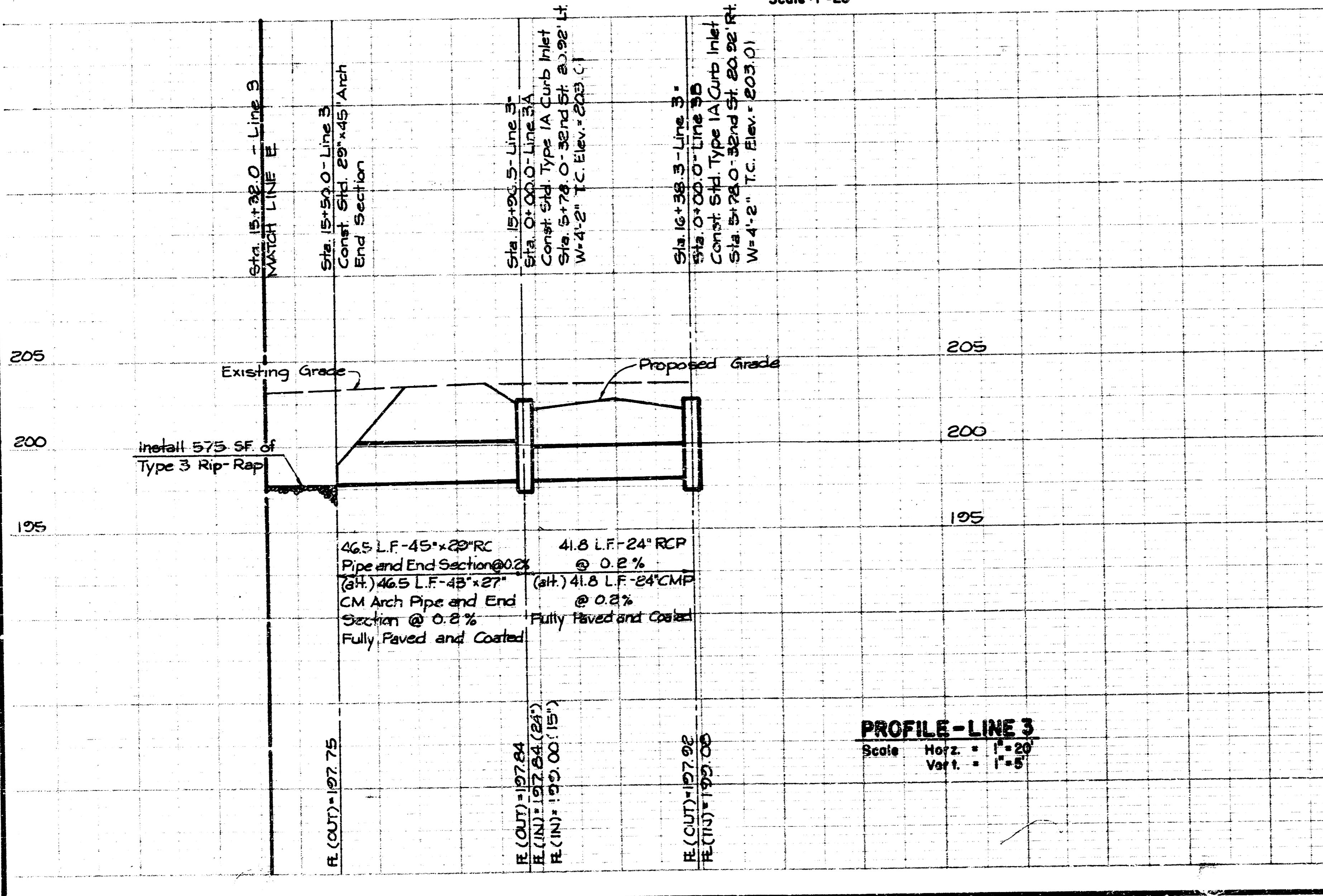
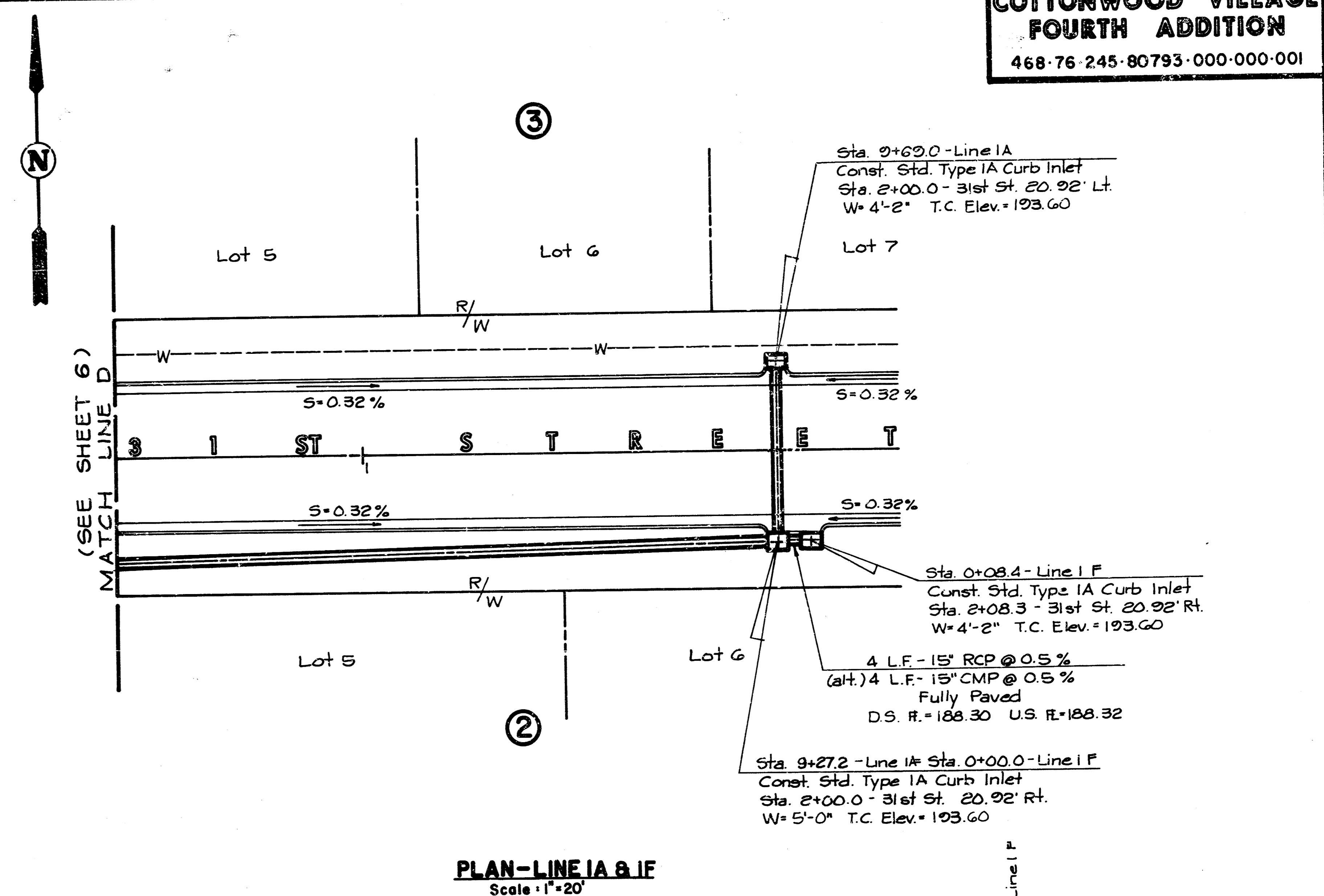
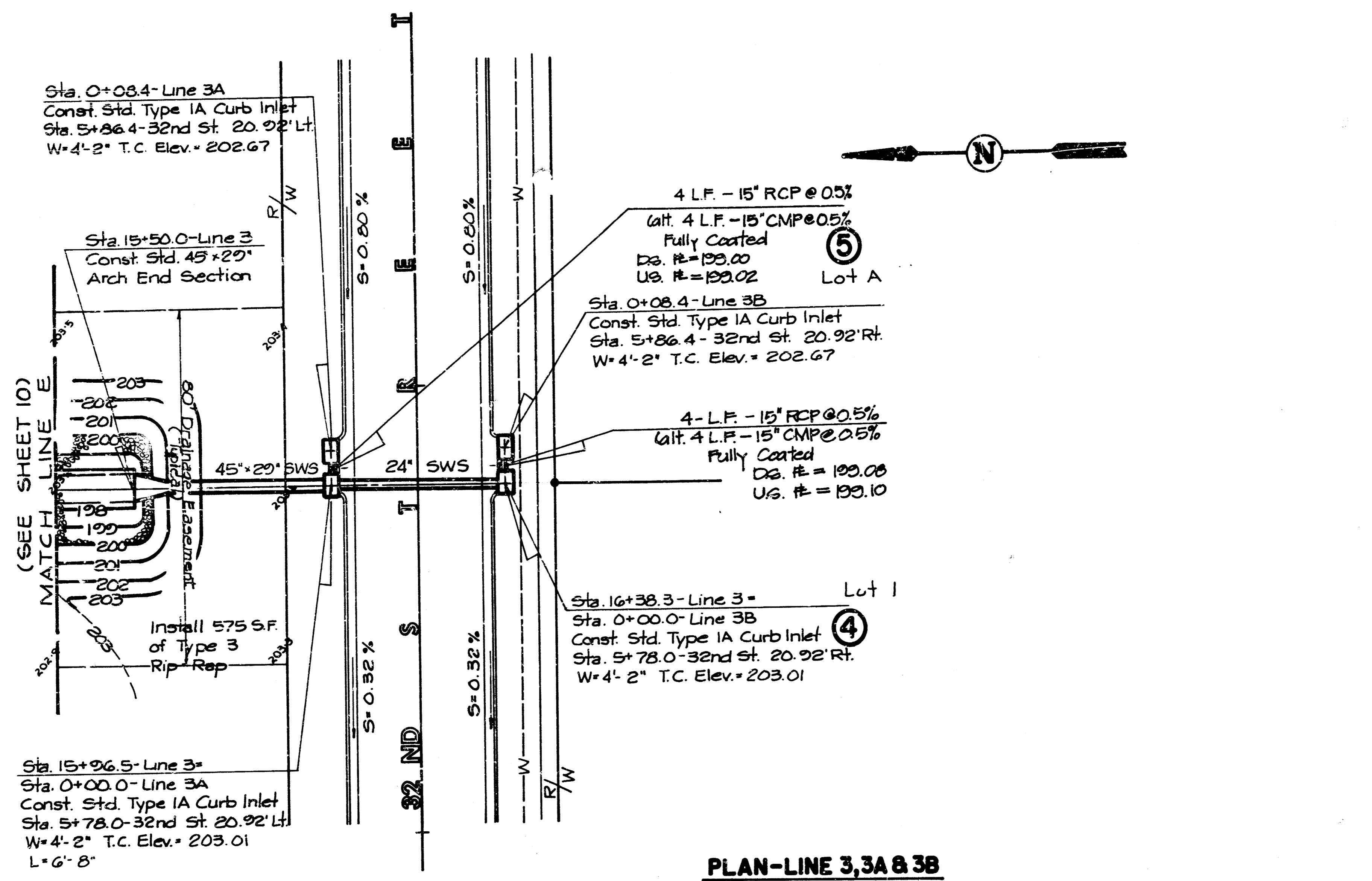
**COTTONWOOD VILLAGE
FOURTH ADDITION**
468-76-245-80793-000-000-001

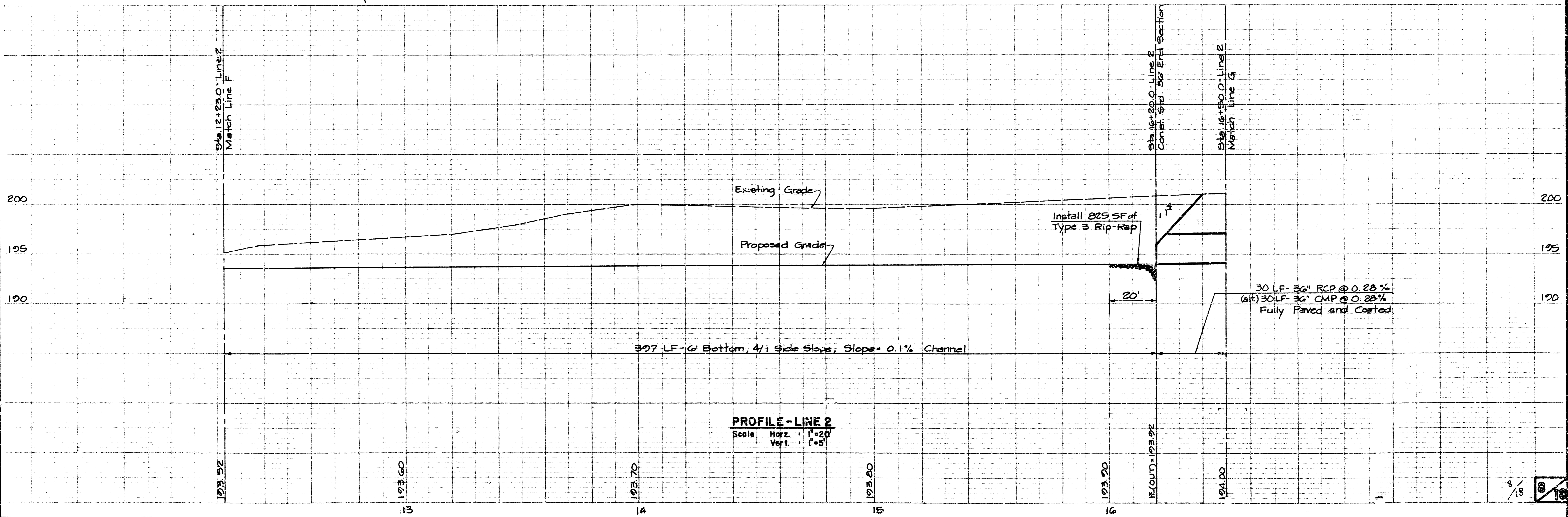
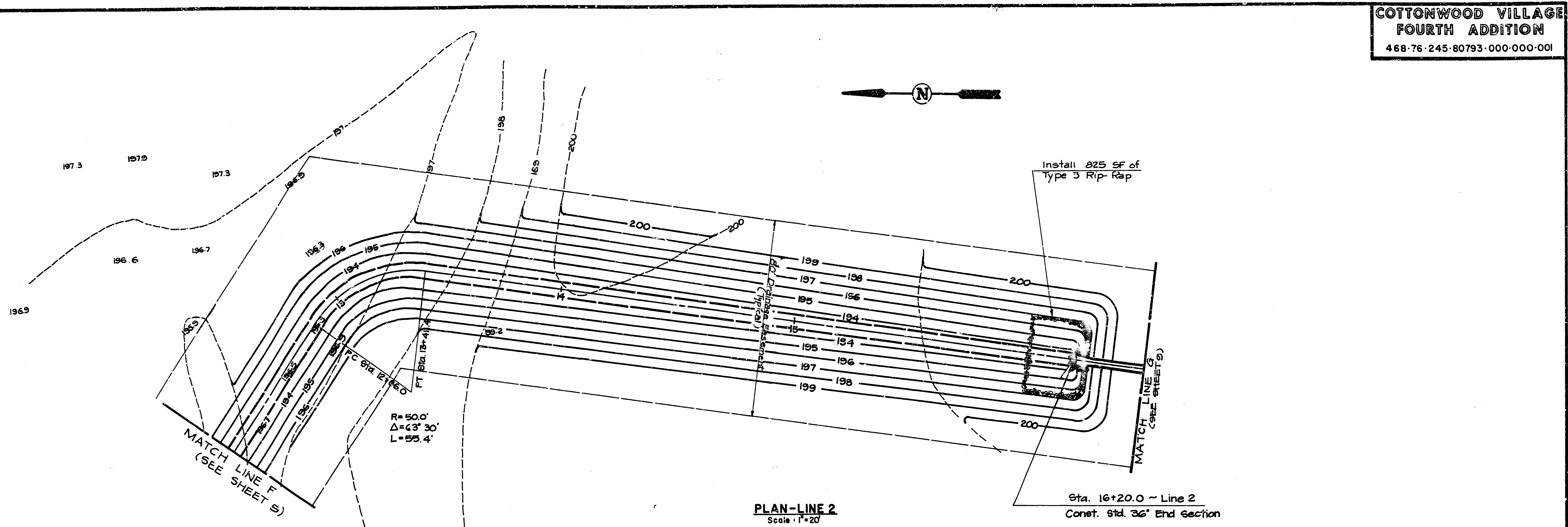


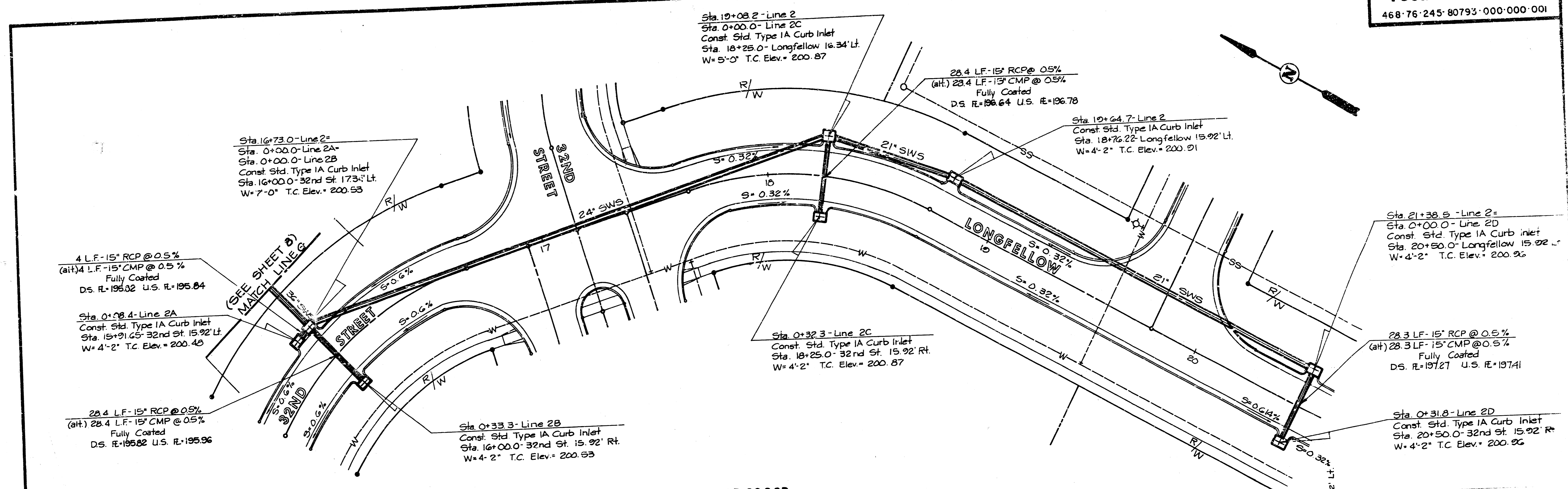
PLAN-LINE IA
Scale: 1" = 20'



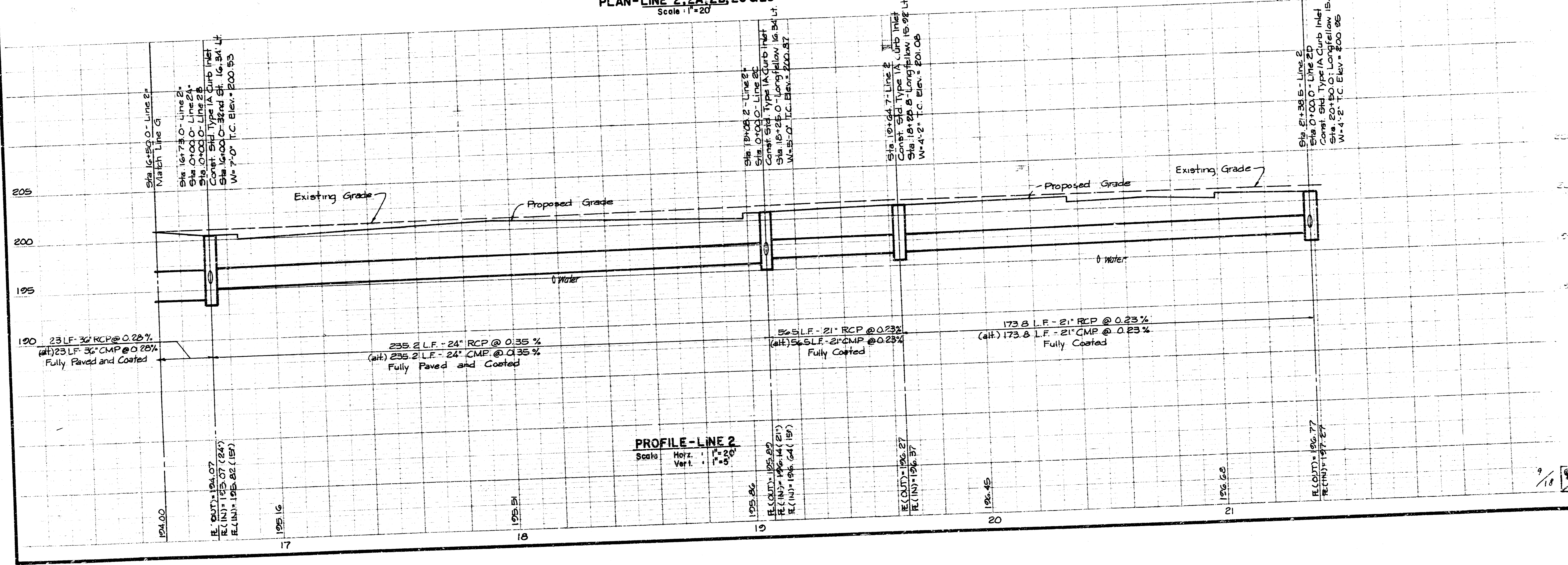
PROFILE-LINE IA
Scale: Horz. 1" = 20'
Vert. 1" = 5'



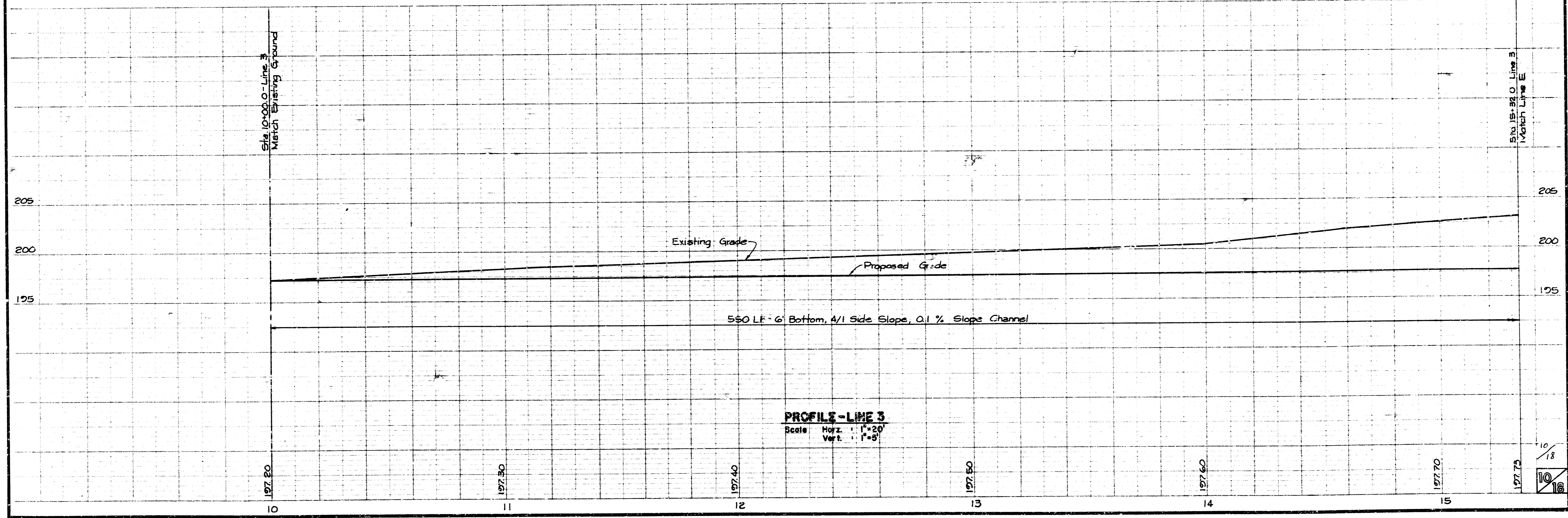
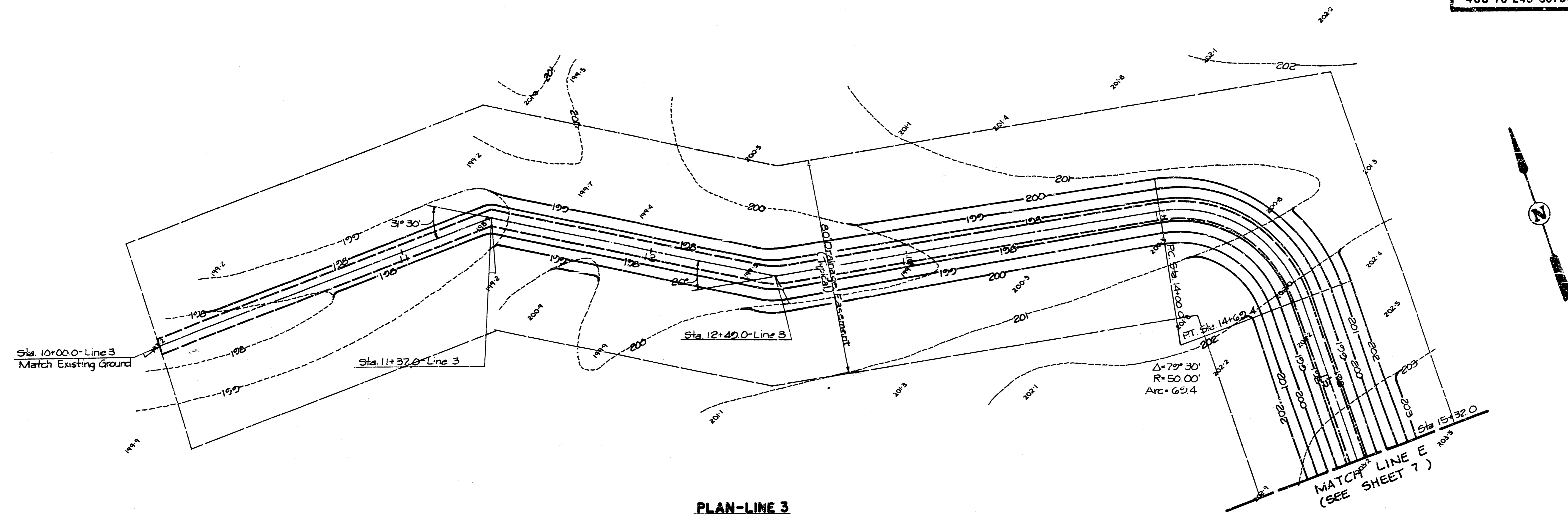




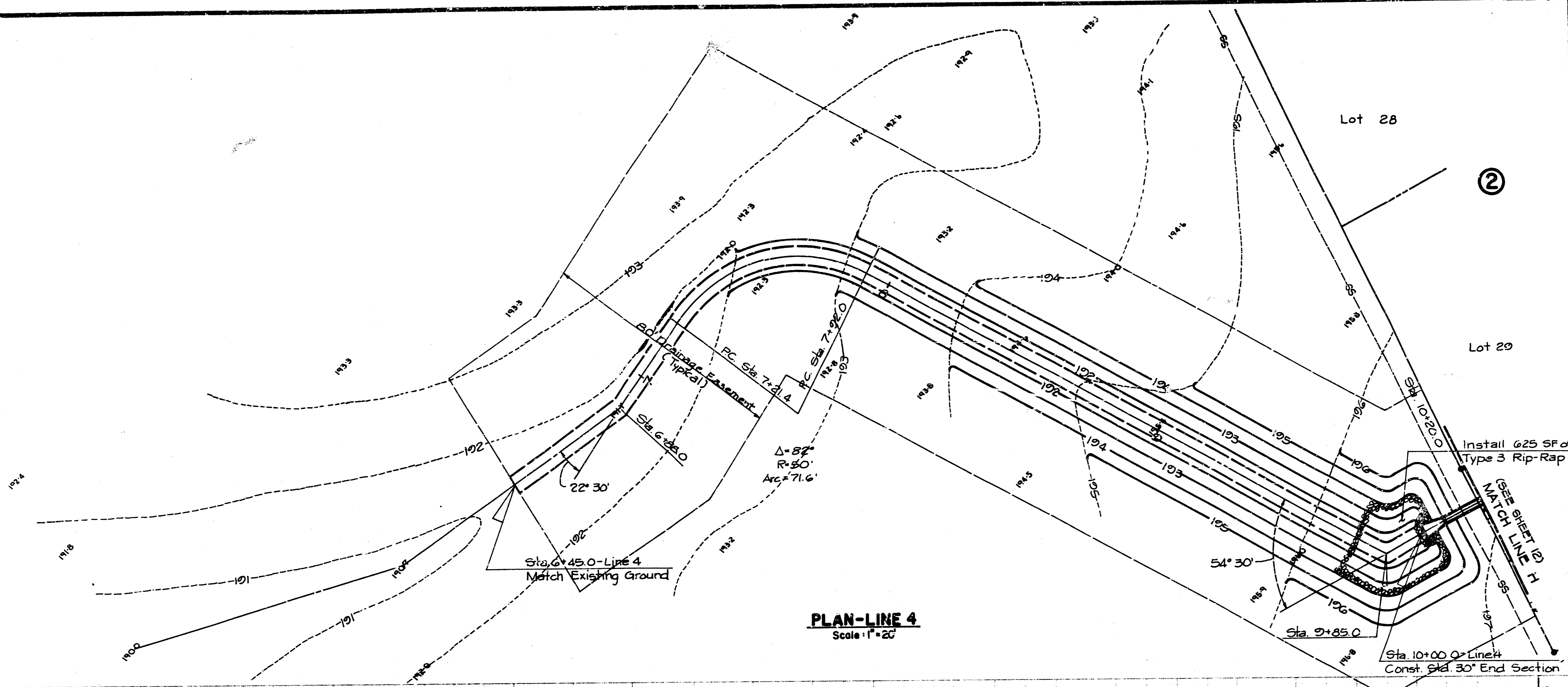
PLAN-LINE 2, 2A, 2B, 2C & 2D
Scale: 1"=20'



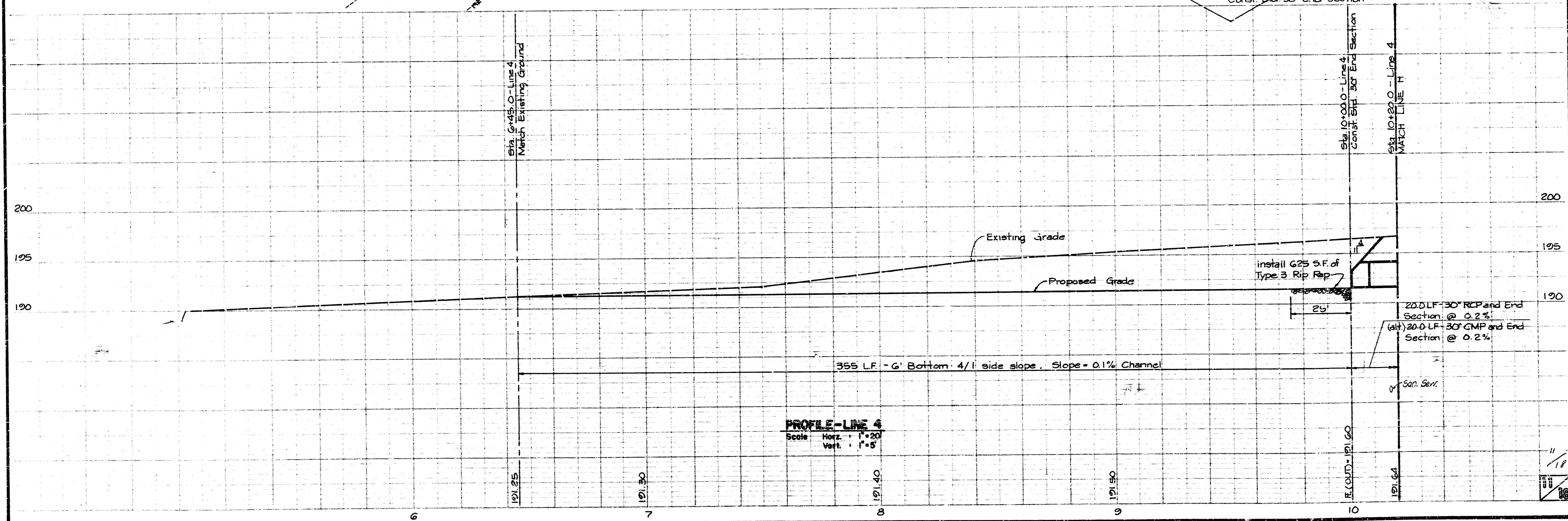
PROFILE-LINE 2
Scale: Horiz. 1"=20', Vert. 1"=5'



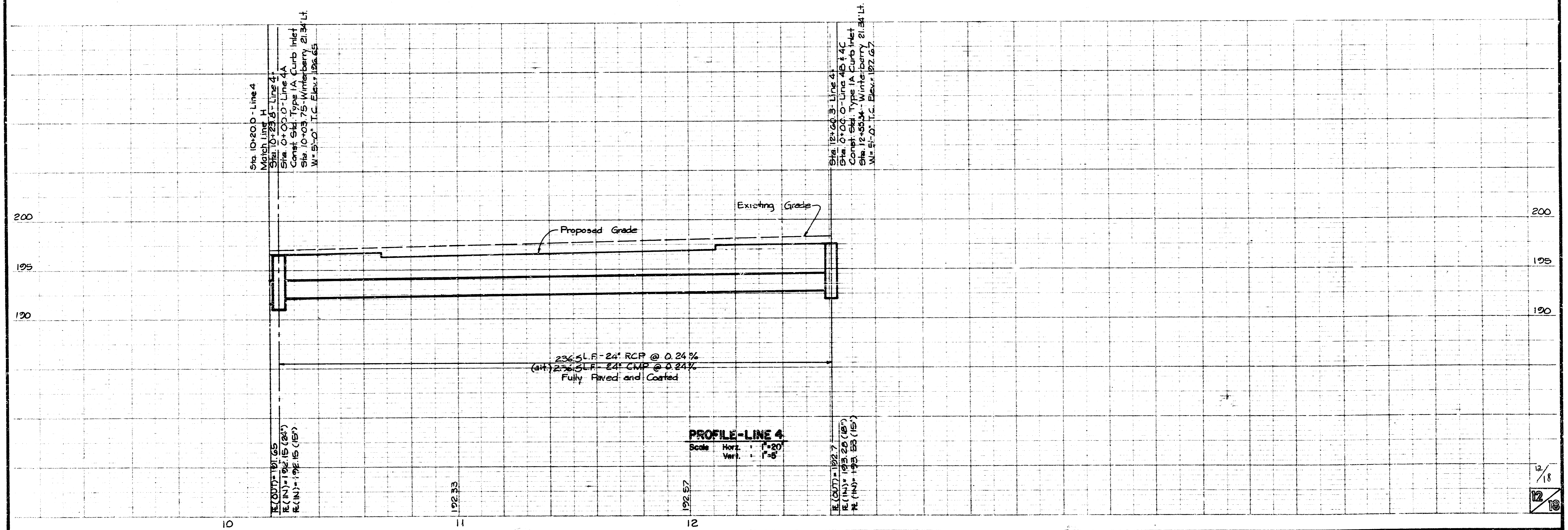
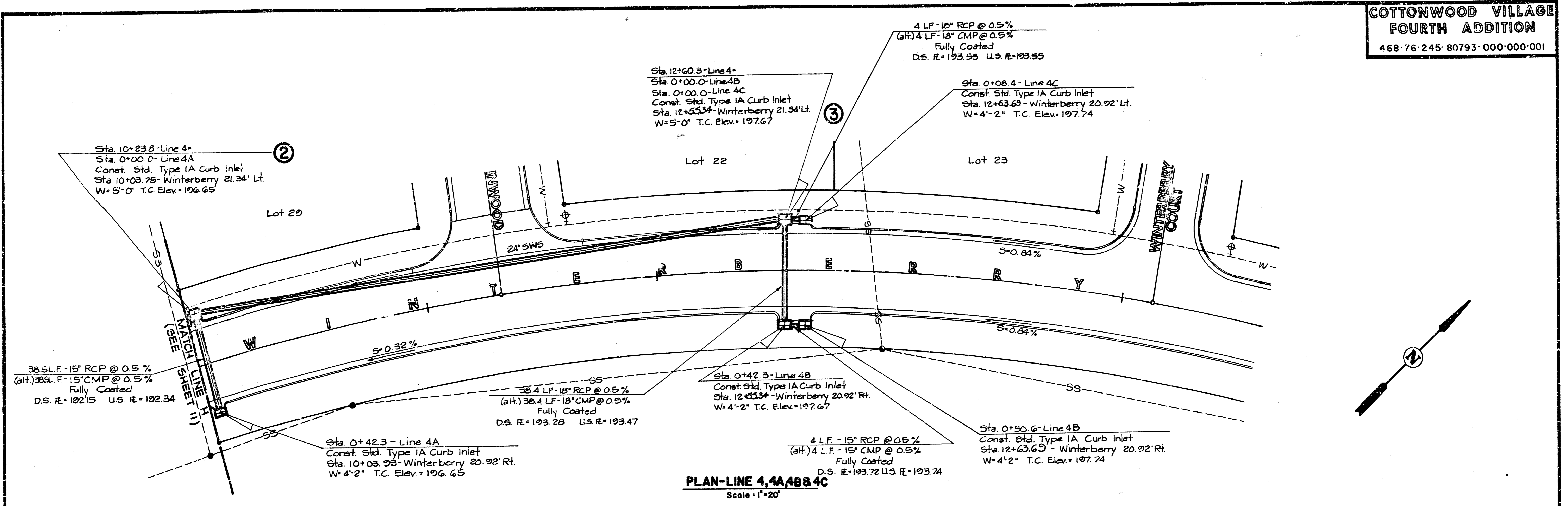
**COTTONWOOD VILLAGE
FOURTH ADDITION**
468-76-245-80793-000-000-001

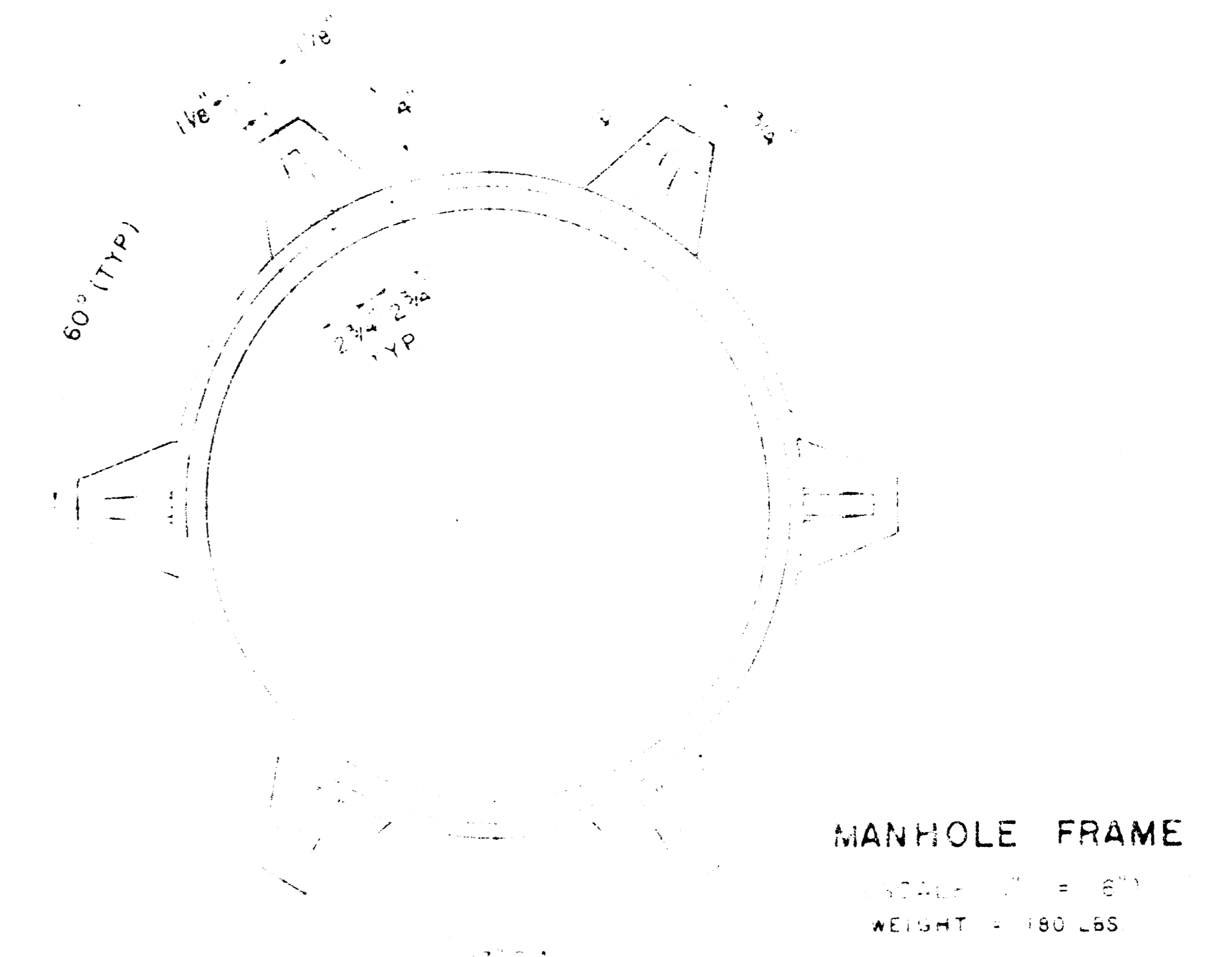
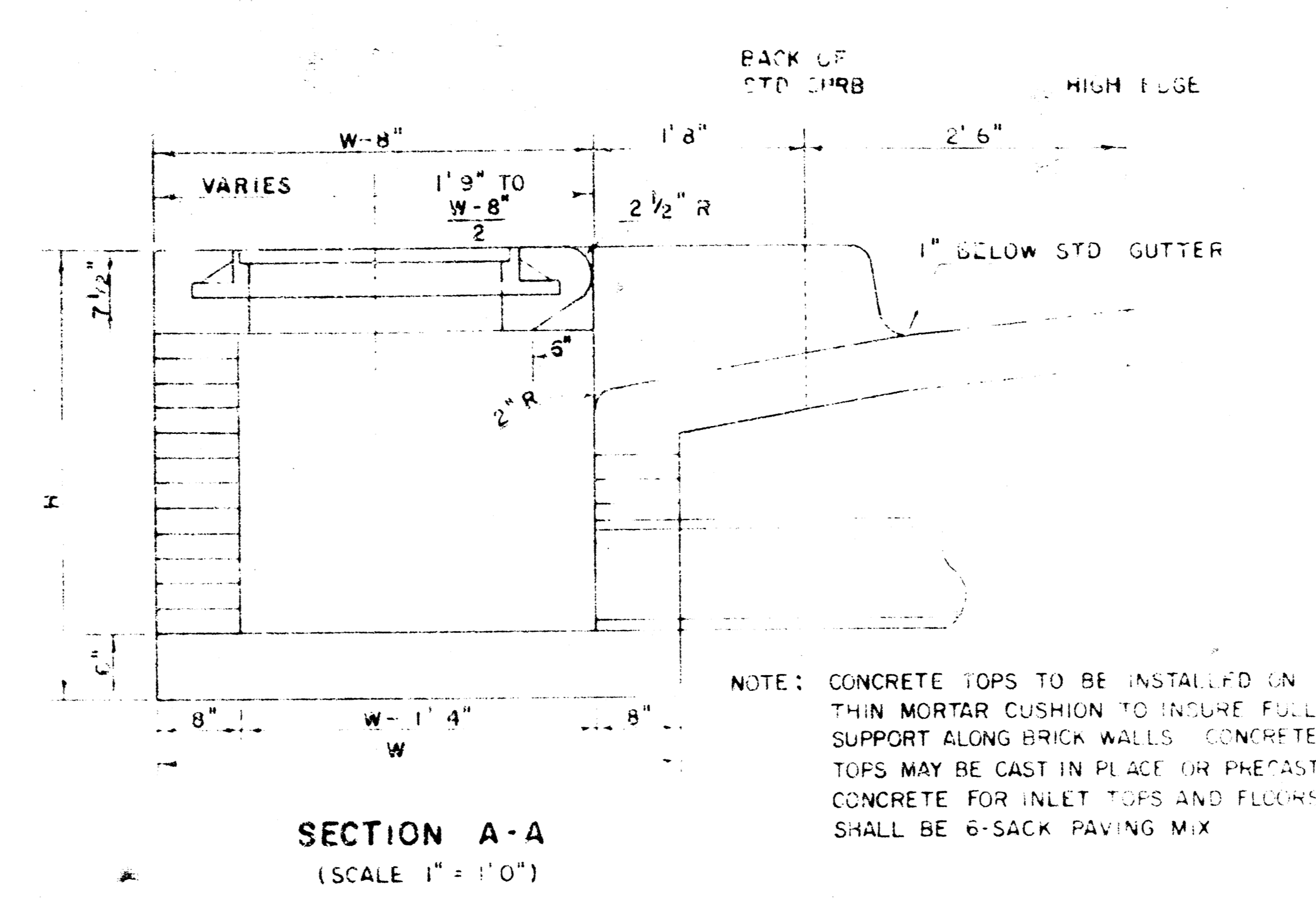
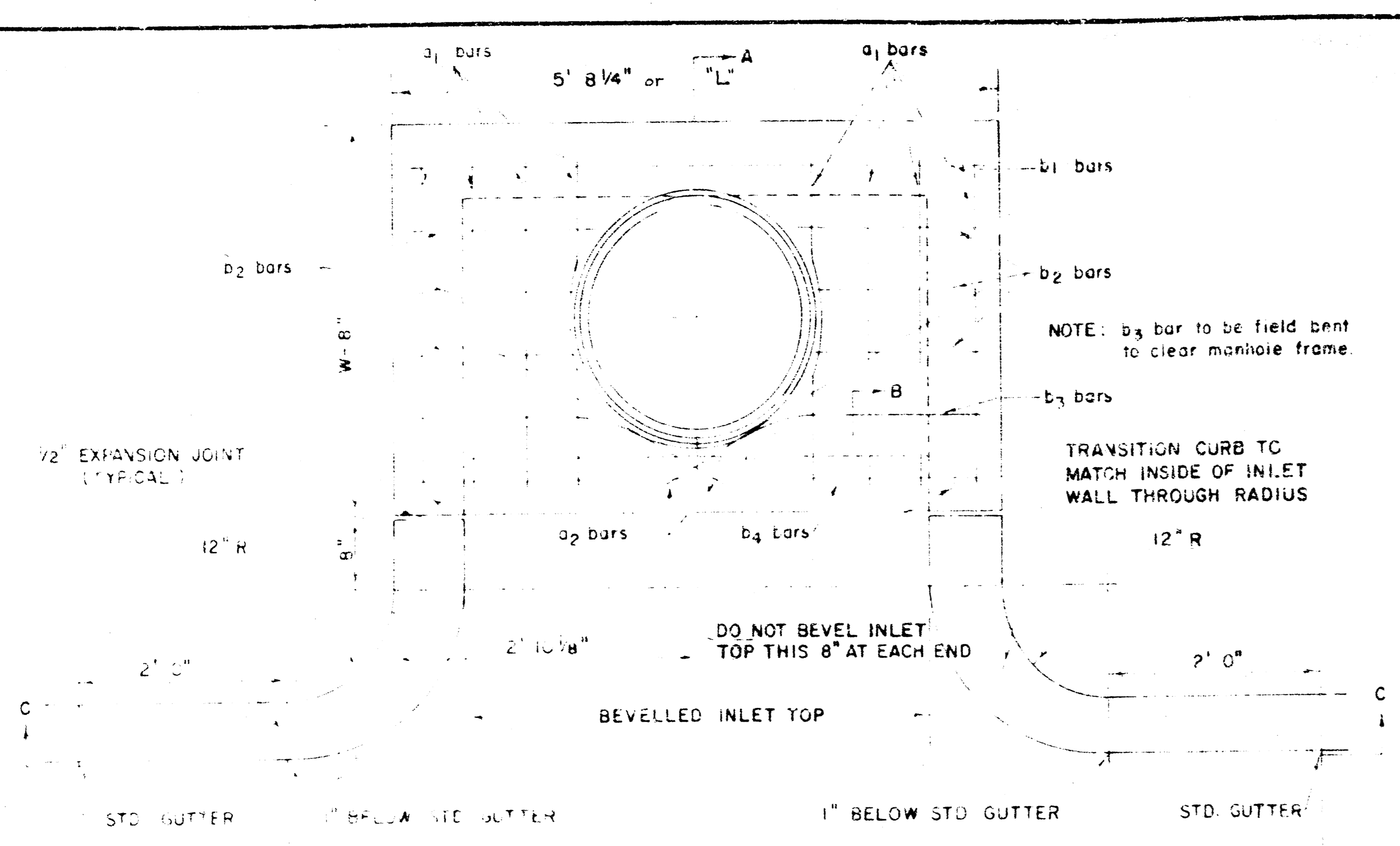


PLAN-LINE 4
Scale: 1"=20'



PROFILE-LINE 4
Scale: Horiz. 1"=20'
Vert. 1"=5'





STEEL SCHEDULE

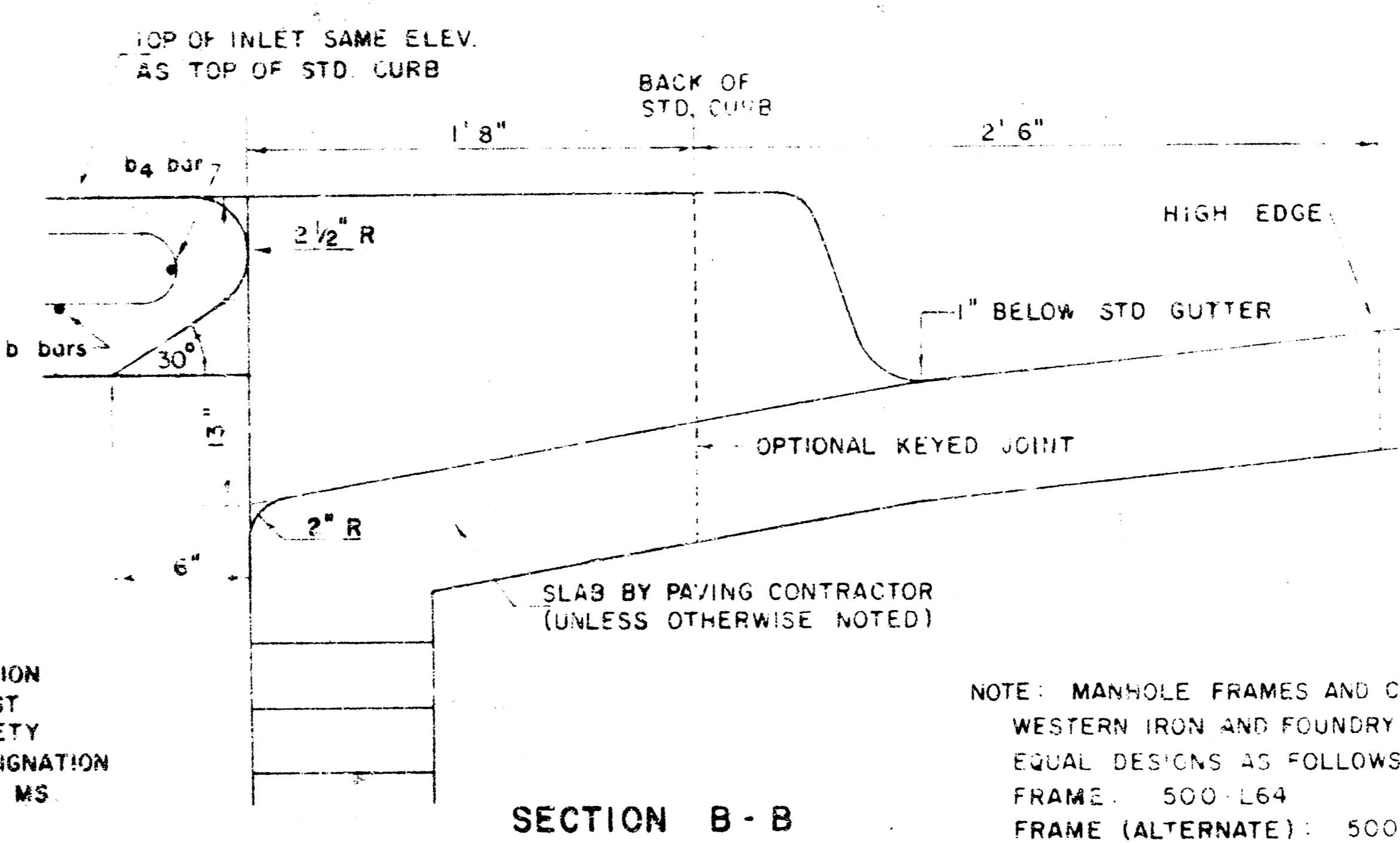
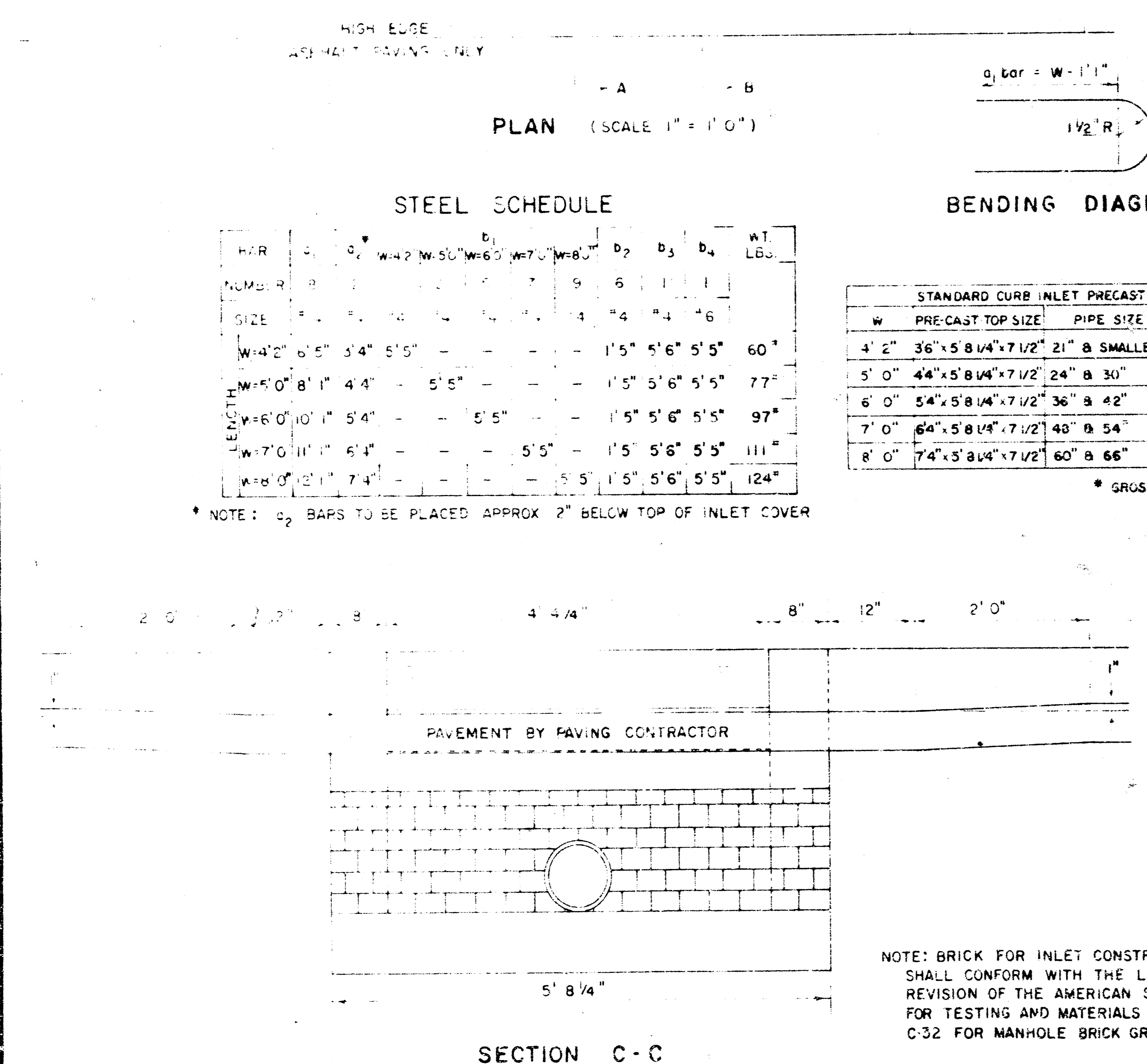
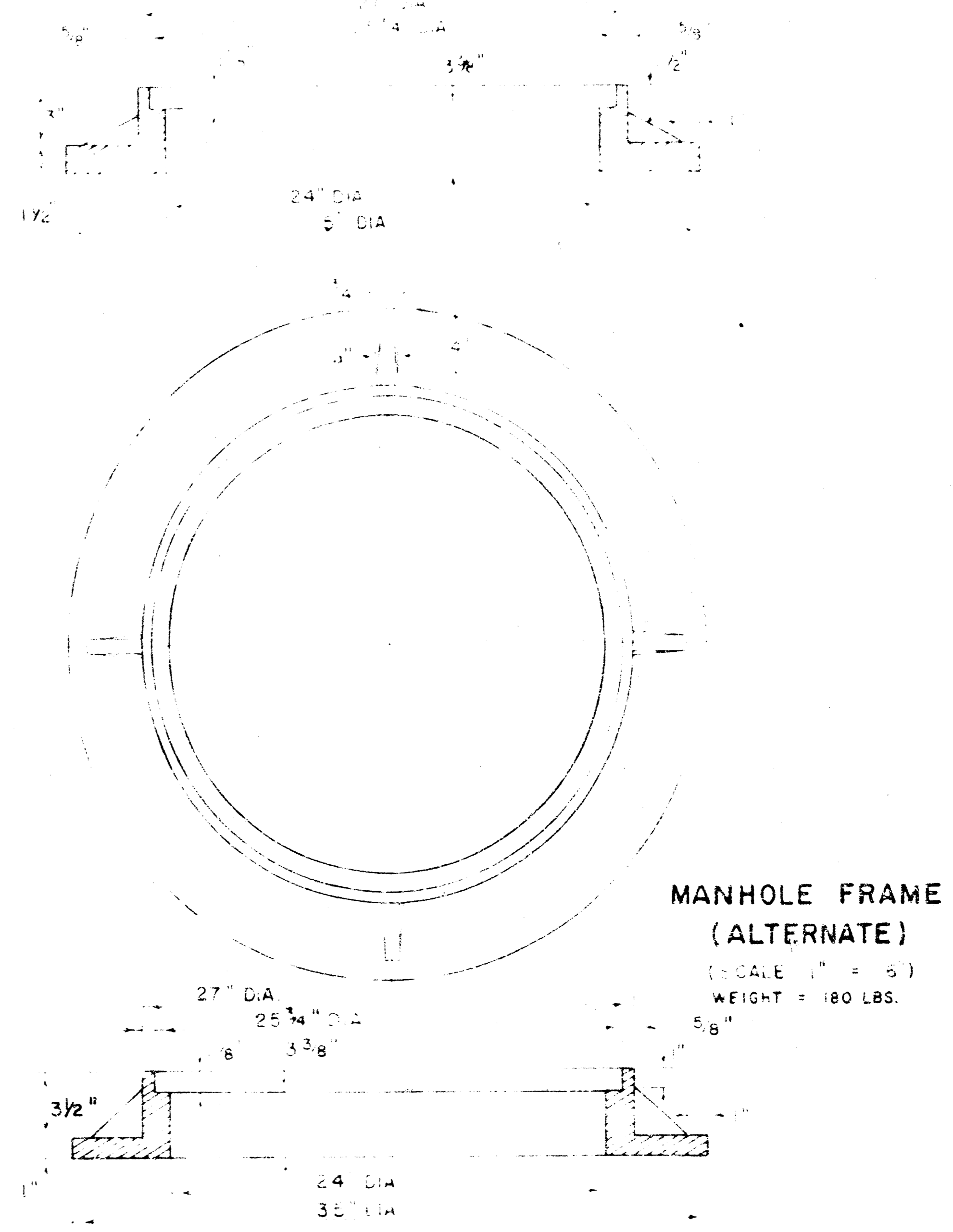
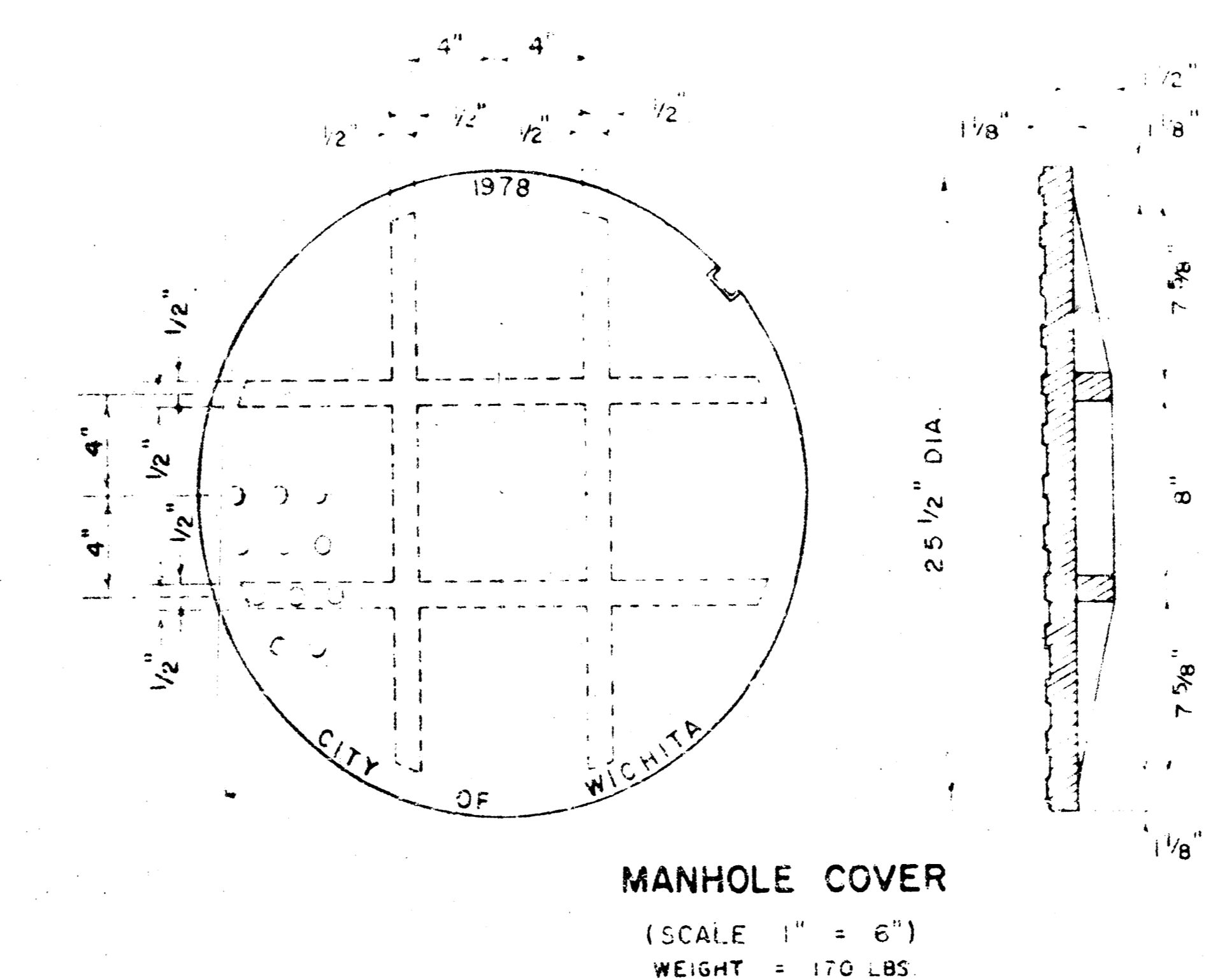
BAR	NO.	W-42	W-50	W-60	W-70	W-80	D ₂	D ₃	D ₄	W1
NUMB.	1	2	3	4	5	6	1	1	1	
SIZE	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	4"	4"	6"	
W	4'2"	6'5"	3'4"	5'5"			1'5"	5'6"	5'5"	60"
L	5'0"	8'1"	4'4"	5'5"			1'5"	5'6"	5'5"	77"
W	6'0"	10'1"	5'4"	5'5"			1'5"	5'6"	5'5"	97"
L	7'0"	11'1"	6'4"	5'5"			1'5"	5'6"	5'5"	111"
W	8'0"	12'1"	7'4"	5'5"			1'5"	5'6"	5'5"	124"

* NOTE: b_2 BARS TO BE PLACED APPROX 2" BELOW TOP OF INLET COVER

STANDARD CURB INLET PRECAST TOPS

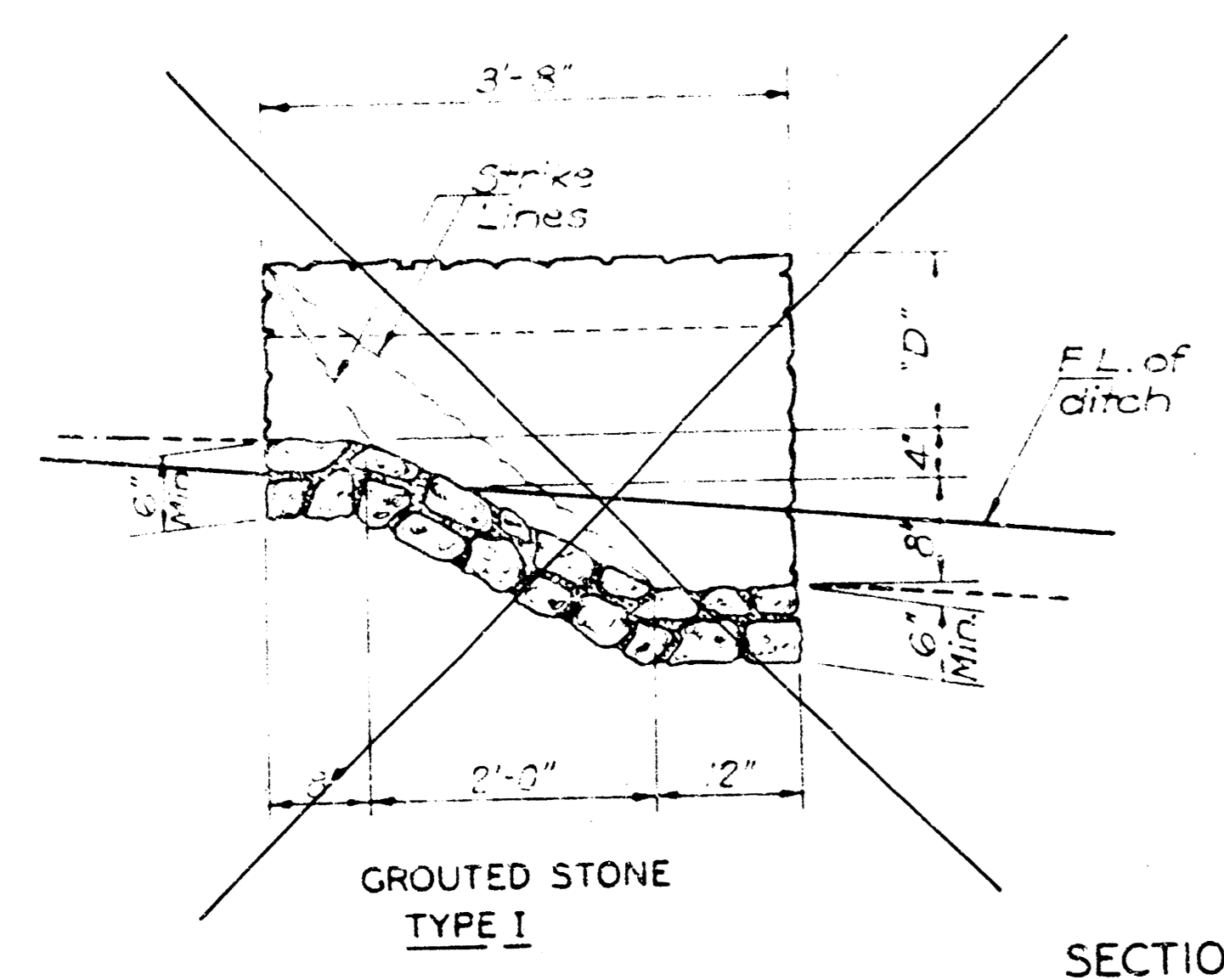
W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4' 2"	36" x 5' 8 1/4" x 7 1/2"	21" Ø SMALLER	0.46 *
5' 0"	44" x 5' 8 1/4" x 7 1/2"	24" Ø 30"	0.57 *
6' 0"	54" x 5' 8 1/4" x 7 1/2"	36" Ø 42"	0.71 *
7' 0"	64" x 5' 8 1/4" x 7 1/2"	40" Ø 54"	0.84 *
8' 0"	74" x 5' 8 1/4" x 7 1/2"	60" Ø 66"	0.97 *

* GROSS VOLUME

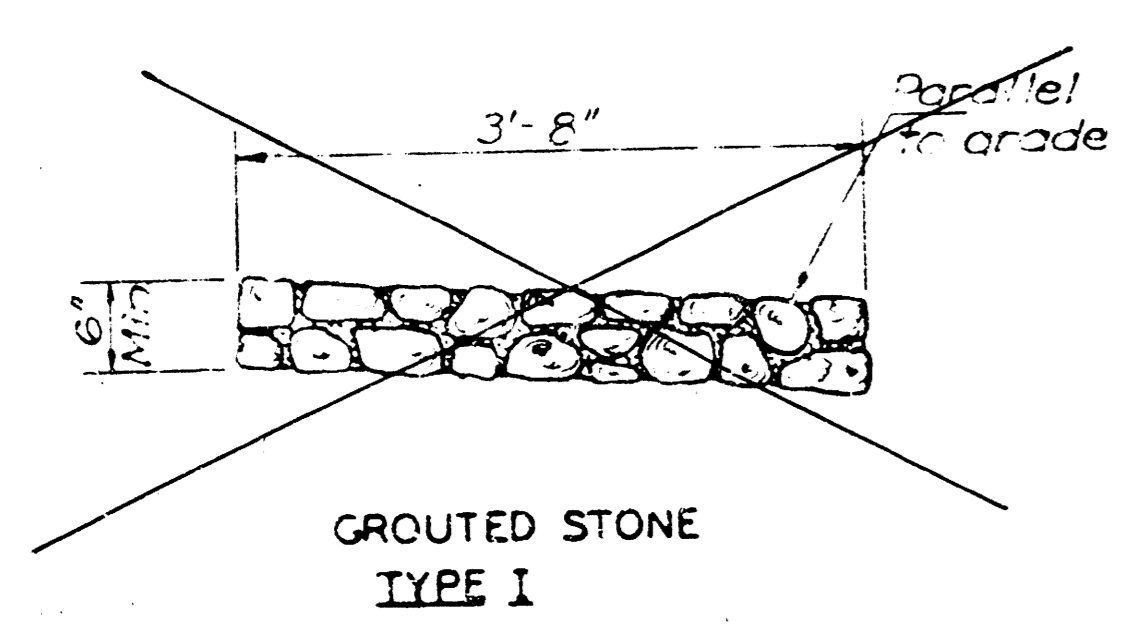


DETAIL STANDARD TYPE IA CURB INLET
 CITY OF WICHITA, KANSAS
 R. W. LINN - CITY ENGINEER
 OCTOBER 1978

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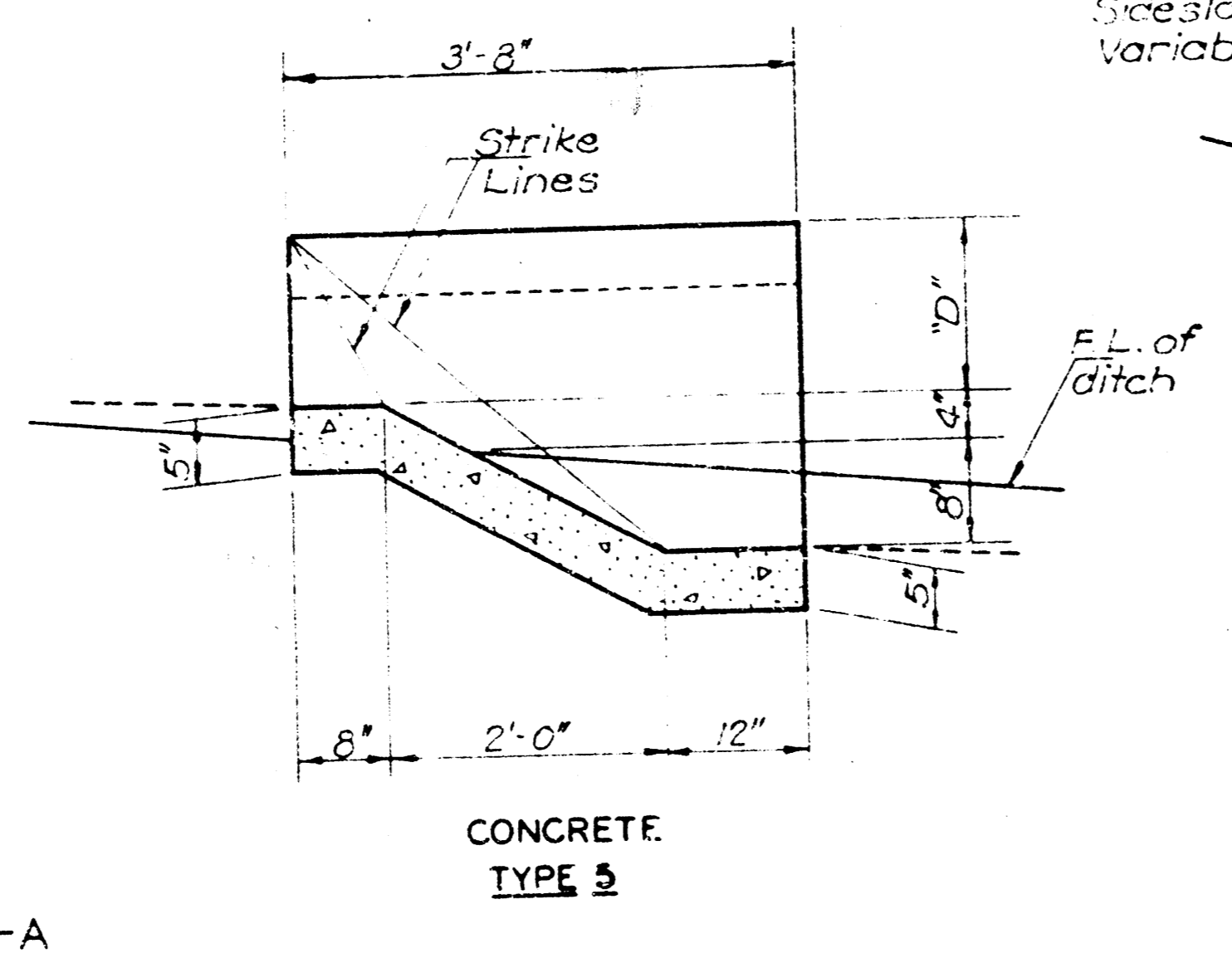


SECTION A-A
Without Toe Wall.

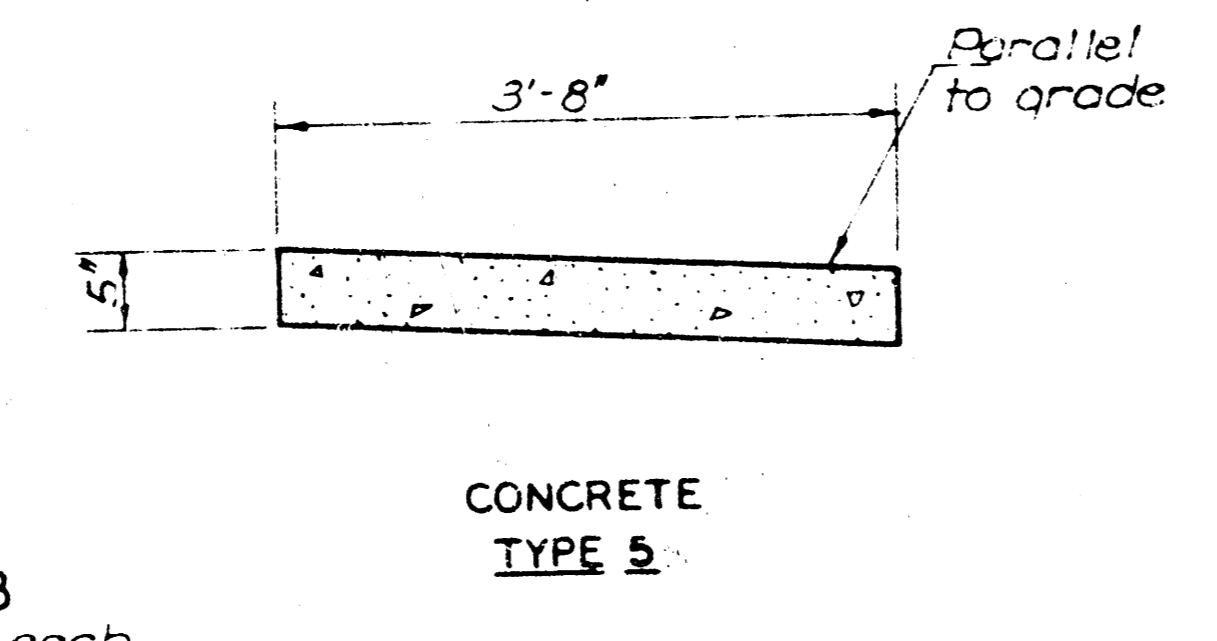


SECTION B-B
Same section at each
end of unit.
Without Toe Wall.

Note: The stone in all stone wash checks shall be laid in a 3" mortar bed and the spaces between stones shall be filled with mortar.

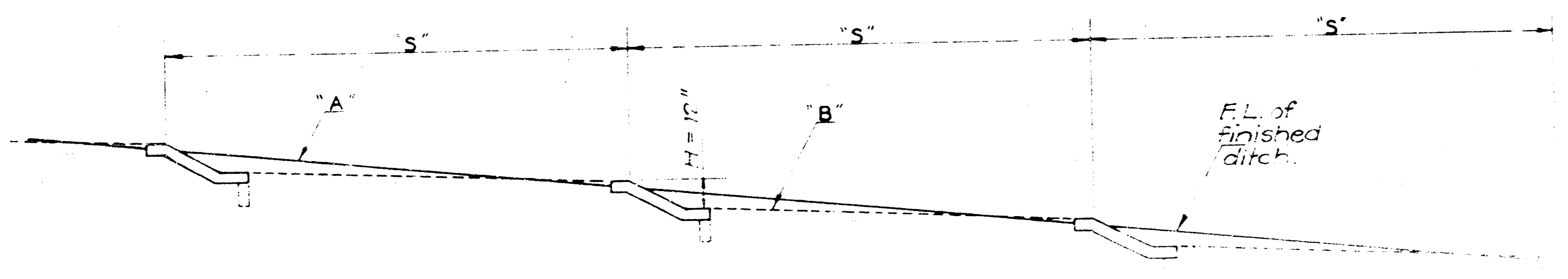


CONCRETE
TYPE 5



CONCRETE
TYPE 5

Note: Use Class "A" concrete thru it for Type 5 & 5-T Wash Checks.

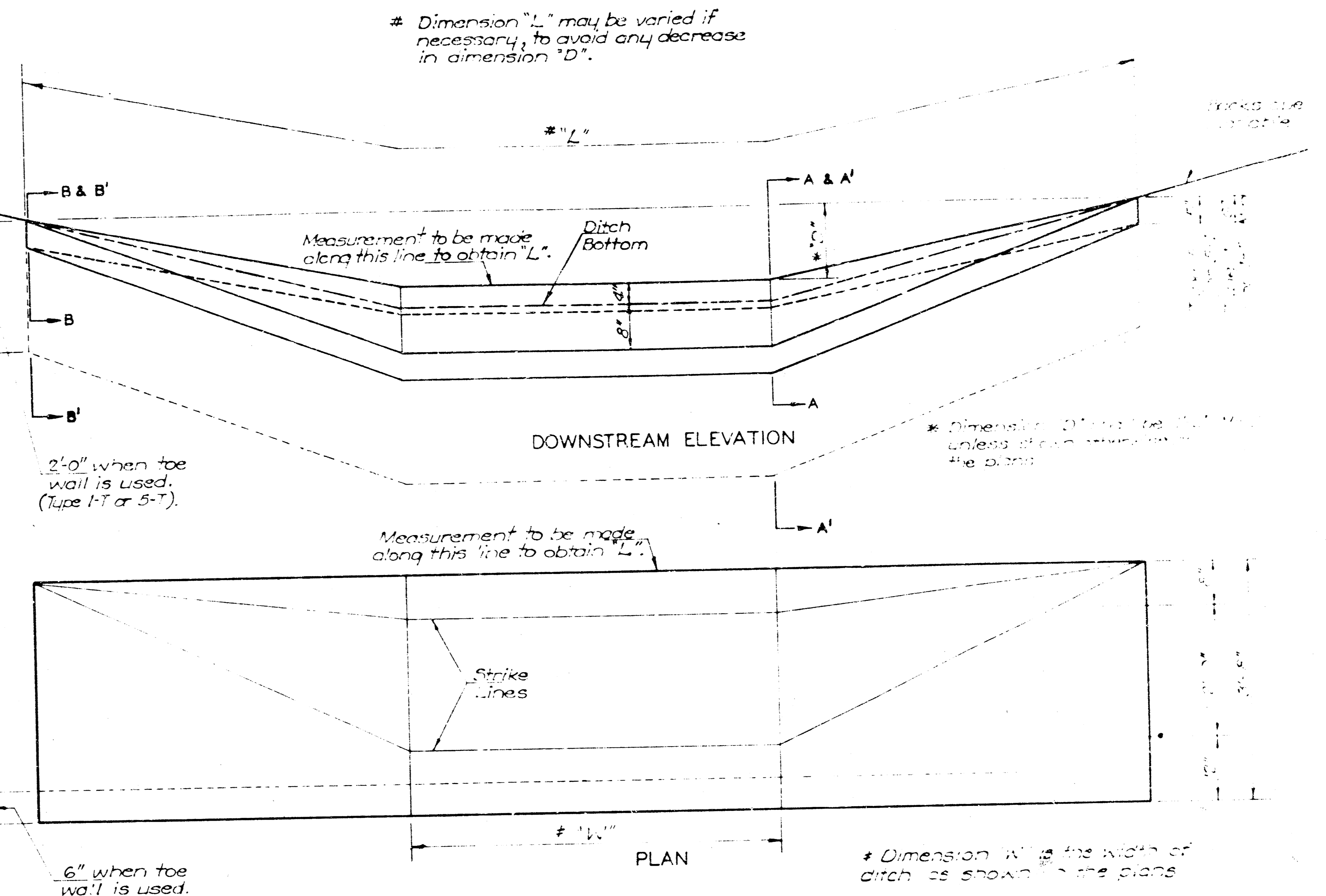


SPACING DIAGRAM
Same spacing as shown

- C = Level of ditch in feet
- A = Top width of ditch in feet
- B = Bottom width of ditch in feet
- D = Length of ditch in feet
- E = Weight of stone in cubic feet
- F = Weight of concrete in cubic feet

$$Q = \frac{22.5 \times (A^2 - B^2) \times D}{74.8 \times E + F}$$

FORMULA



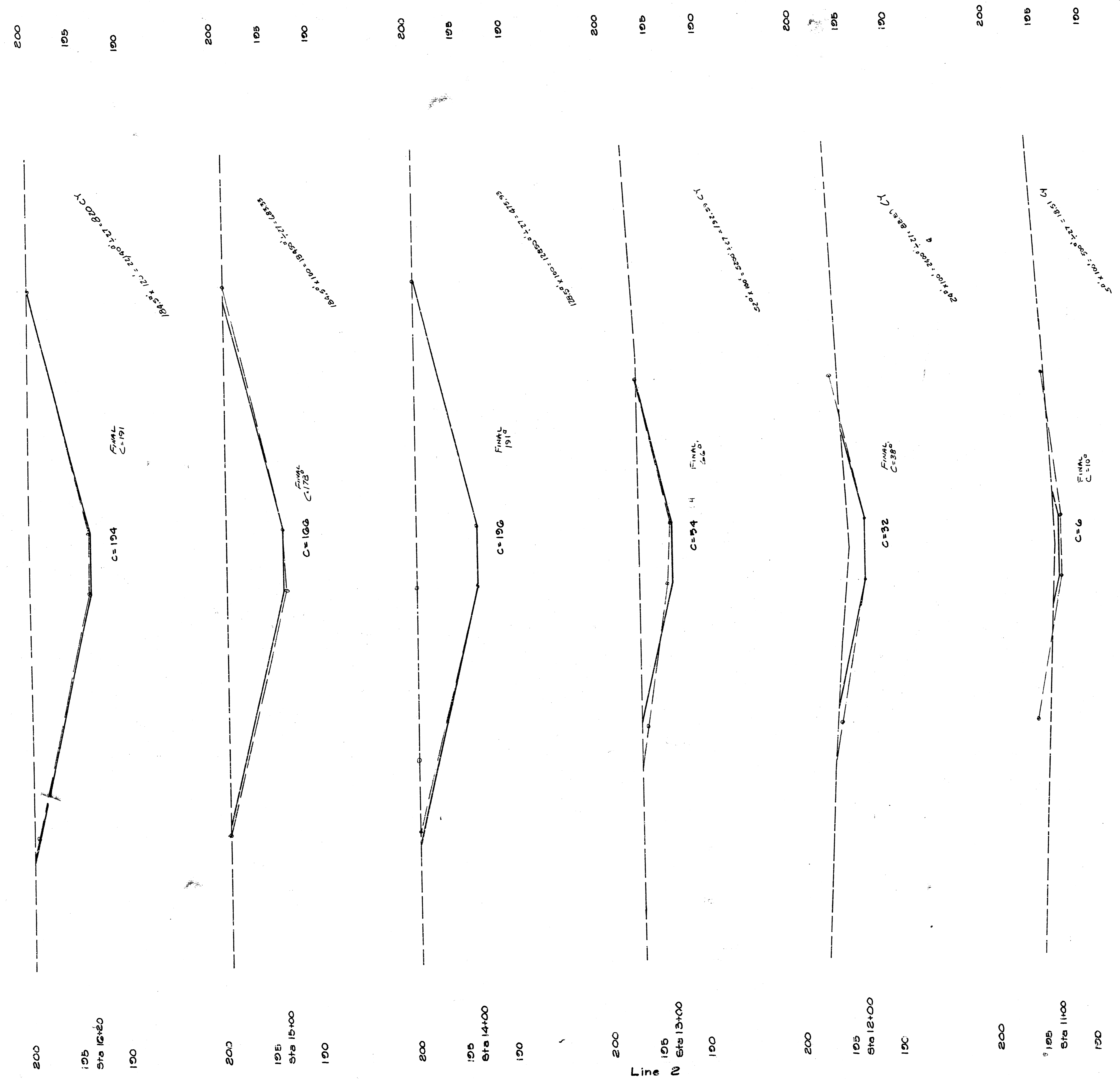
DOWNSTREAM ELEVATION

PLAN

* Dimension "W" is the width of ditch as shown in the plans

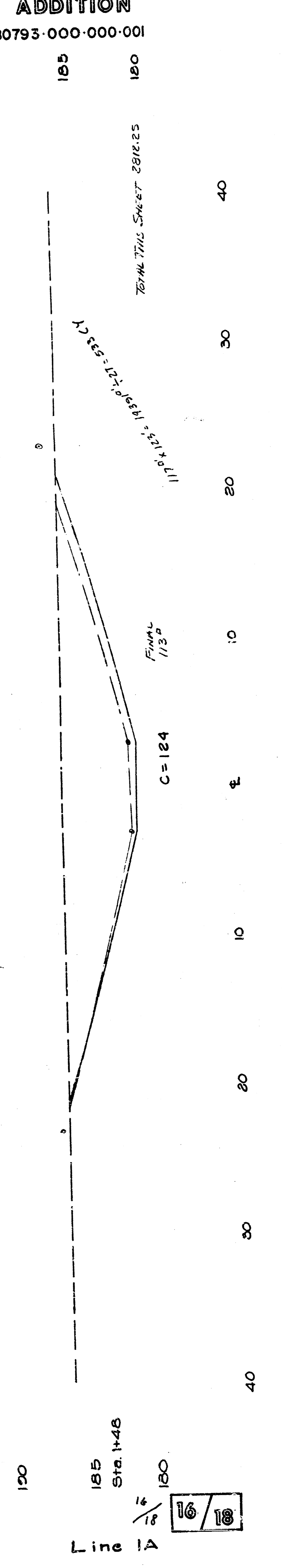
Match Existing Grade

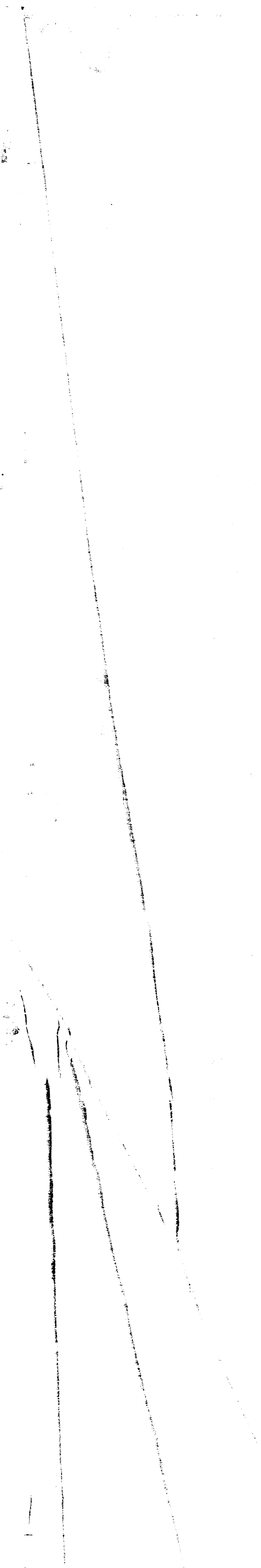
Line C
 Sta 10+00



Match Existing Grade

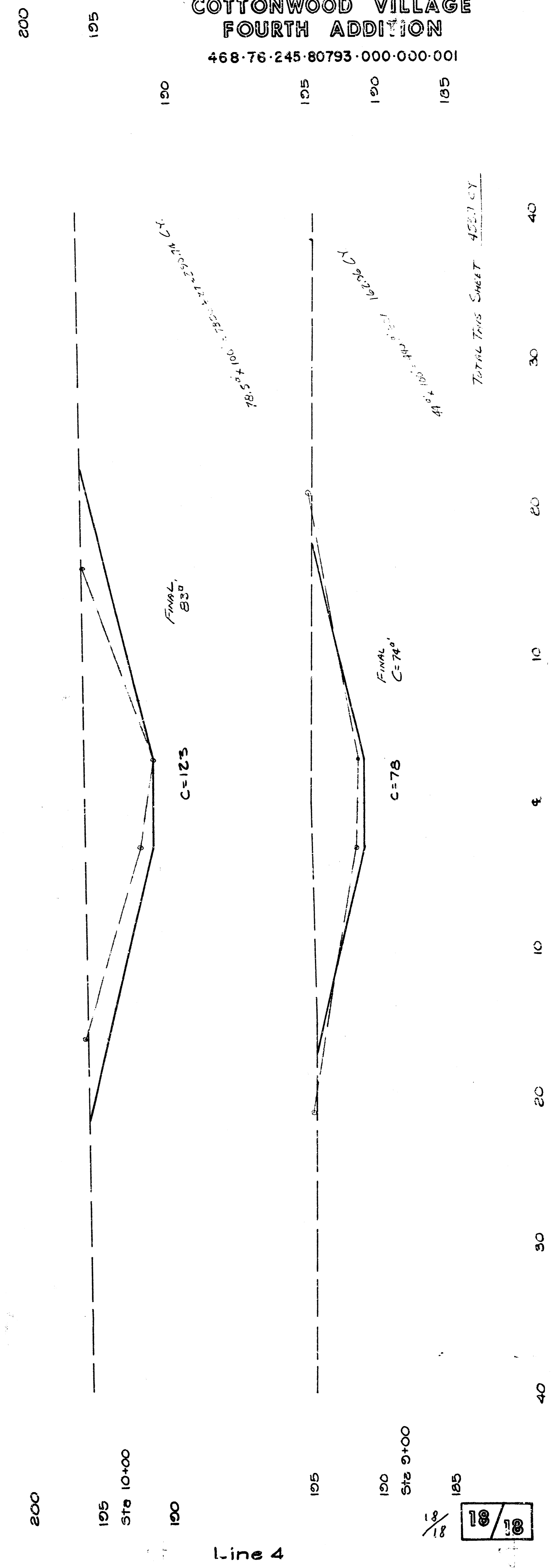
Line A
 Sta 10+00





**COTTONWOOD VILLAGE
FOURTH ADDITION**

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