

S.W.S. NO. 176 STORM SEWERS IN THE PARK

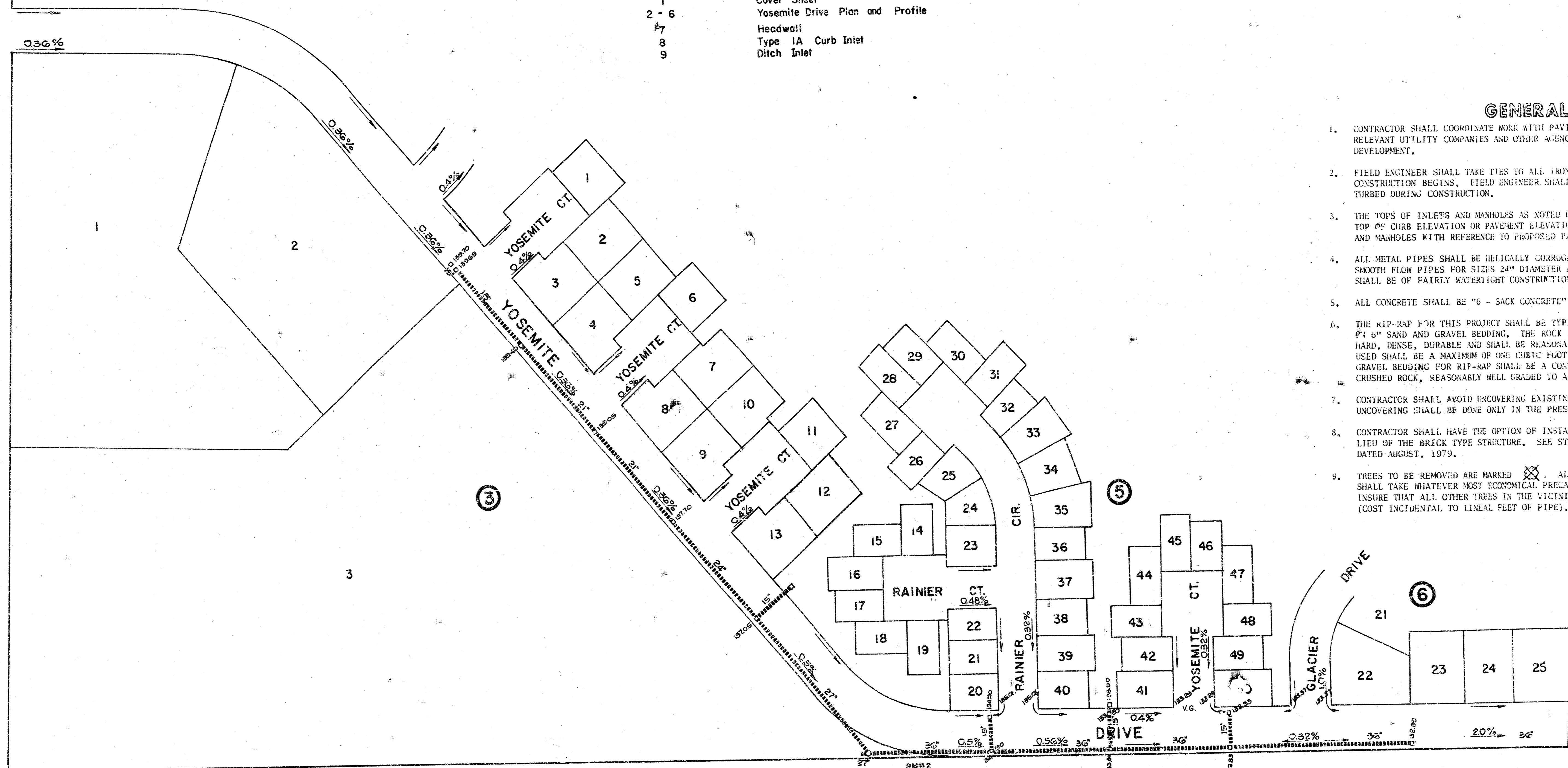
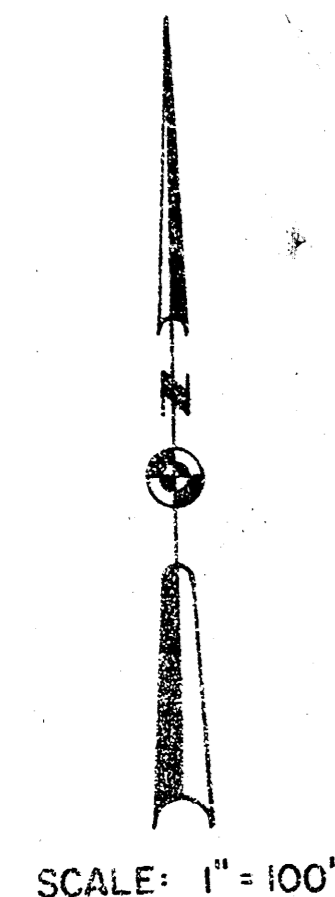
PROJECT NO.
468-76-245-80882-000-000-001

CITY OF WICHITA, KANSAS
DEAN SELLERS, ACTING CITY ENGINEER

INDEX TO DRAWINGS

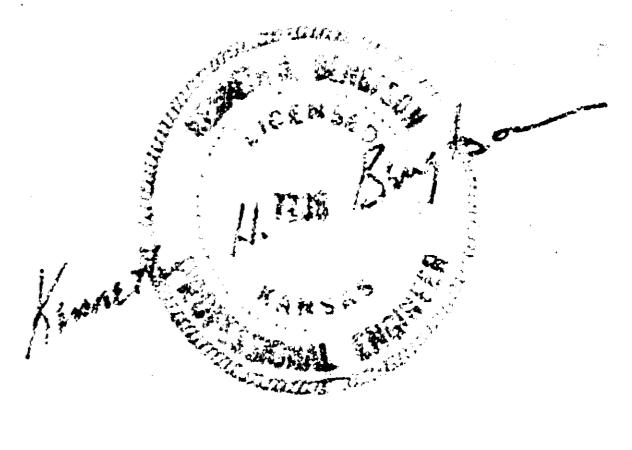
SHT. NO.	DESCRIPTION
1	Cover Sheet
2-6	Yosemite Drive Plan and Profile
7	Headwall
8	Type IA Curb Inlet
9	Ditch Inlet

DMW
R.R. Spike E. I.C. PP
E. side Maize Rd. on S. line
Sherwood Ct. Elev. = 144.01



GENERAL NOTES

- CONTRACTOR SHALL COORDINATE WITH PAVING AND SANITARY CONTRACTORS AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT SITE DEVELOPMENT.
- FIELD ENGINEER SHALL TAKE TIES TO ALL IRONS AND THUMBIES IN THE PROJECT AREA BEFORE CONSTRUCTION BEGINS. FIELD ENGINEER SHALL REPLACE ALL SUCH IRONS AND THUMBIES DISTURBED DURING CONSTRUCTION.
- THE TOPS OF INLETS AND MANHOLES AS NOTED ON THE PLANS MAY VARY SO AS TO MEET PROPOSED TOP OF CURB ELEVATION 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. ALL CORRUGATED PIPE SHALL BE SMOOTH FLOW PIPES FOR SIZES 24" DIAMETER AND LARGER. ALL CONNECTIONS FOR THESE PIPES SHALL BE OF FAIRLY WATER-TIGHT CONSTRUCTION USING HUGGER TYPE COUPLERS OR LOCAL.
- ALL CONCRETE SHALL BE "6 - SACK CONCRETE" UNLESS OTHERWISE NOTED.
- THE RIP-RAP FOR THIS PROJECT SHALL BE TYPE 3. THE TYPE 3 RIP-RAP SHALL BE 12" RIP-RAP ON 6" SAND AND GRAVEL BEDDING. THE ROCK FOR RIP-RAP 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". THE 6" SAND AND GRAVEL BEDDING FOR RIP-RAP SHALL BE A CONTINUOUS LAYER OF SAND AND GRAVEL OR SAND AND CRUSHED ROCK, REASONABLY WELL GRADED TO A MAXIMUM OF 1 1/2" IN SIZE.
- 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.
- TREES TO BE REMOVED ARE MARKED WITH AN 'X'. ALL OTHER TREES ARE TO BE SAVED. CONTRACTOR SHALL TAKE WHATEVER MOST ECONOMICAL PRECAUTIONS THE SITE ENGINEER DEEMS NECESSARY TO INSURE THAT ALL OTHER TREES IN THE VICINITY OF CONSTRUCTION ARE PROTECTED FROM INJURY (COST INCIDENTAL TO LINEAL FEET OF PIPE).

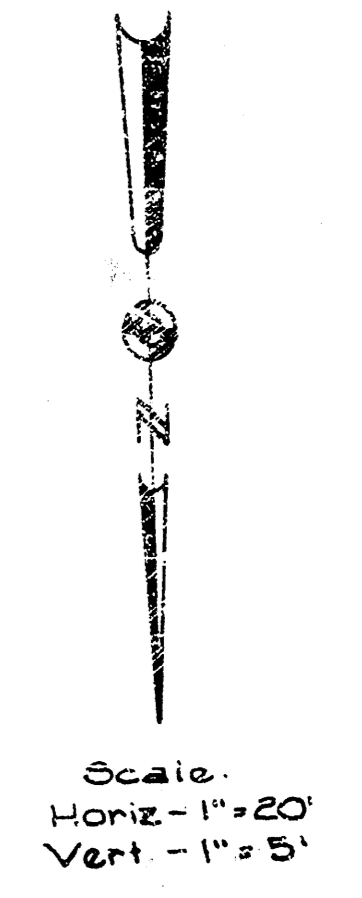
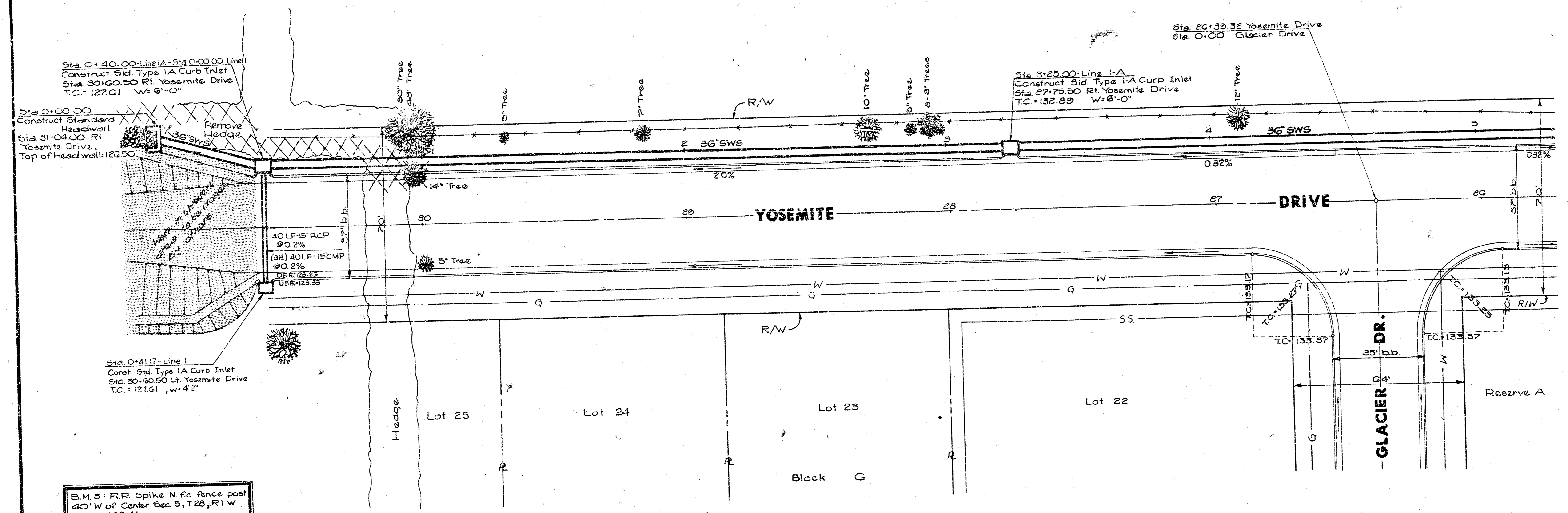


BM#2
R.R. Spike top mulberry stump
In E-W L.C. 1000ft. W. of SE corner
NW 1/4 Sec. 5, T28, R1W Elev. = 139.58

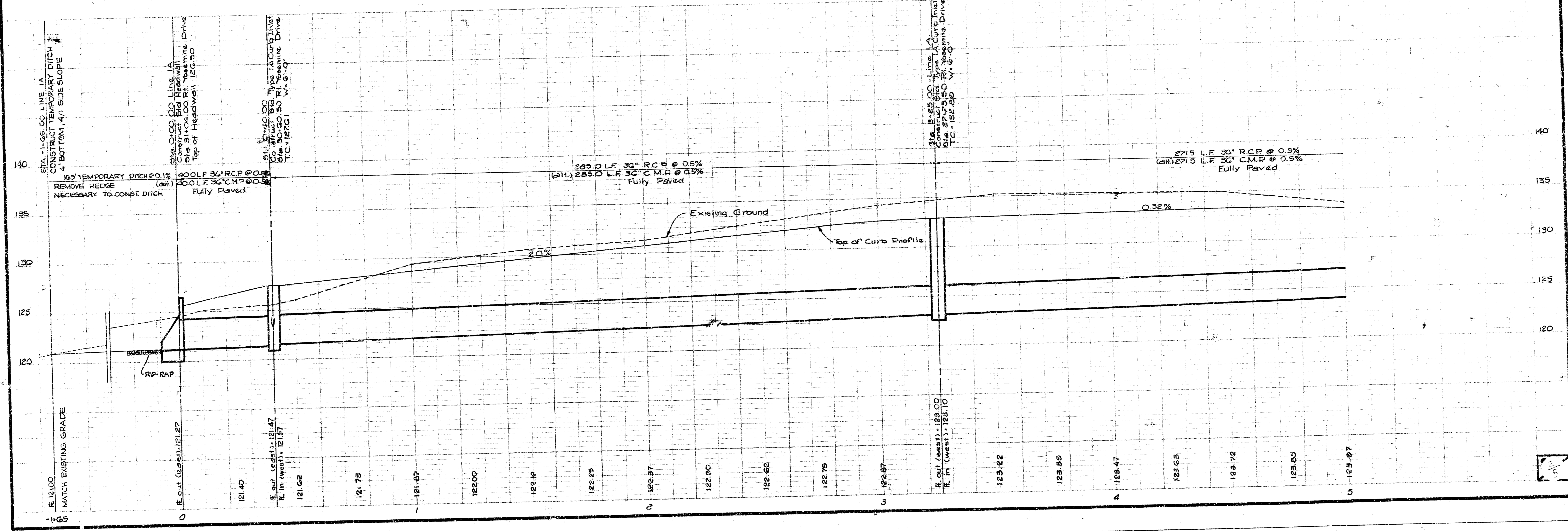
BM#3
R.R. Spike N.C. fence post
40' W. of Center Sec. 5, T28, R1W
Elev. = 128.41

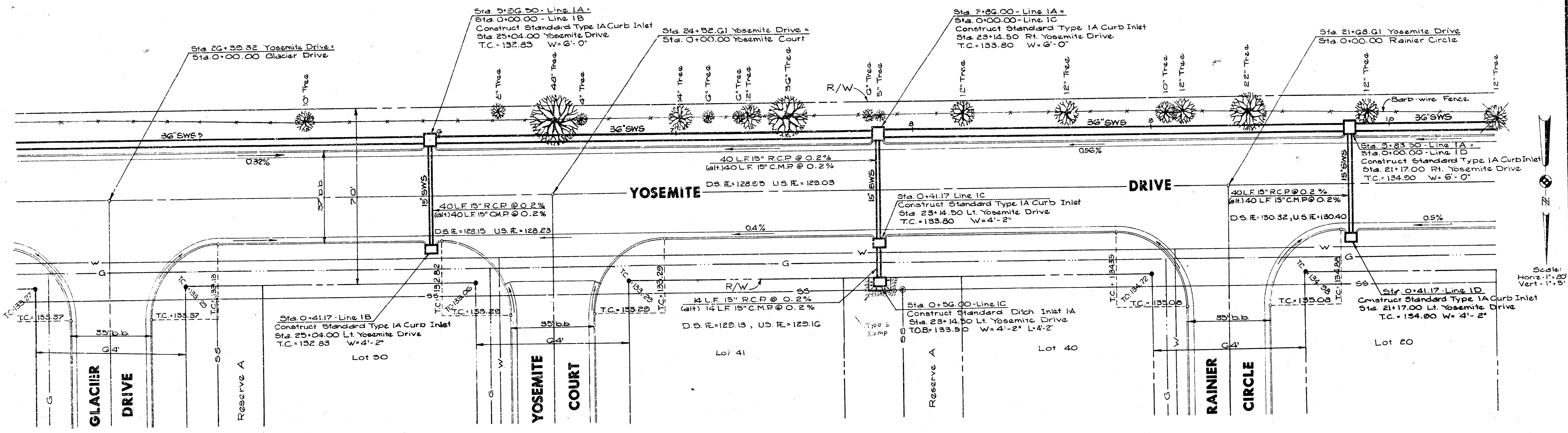
Van Doren - Hazard - Stallings
Architects - Engineers - Planners
Topeka Wichita Minneapolis

Sheet **1**
of **5**

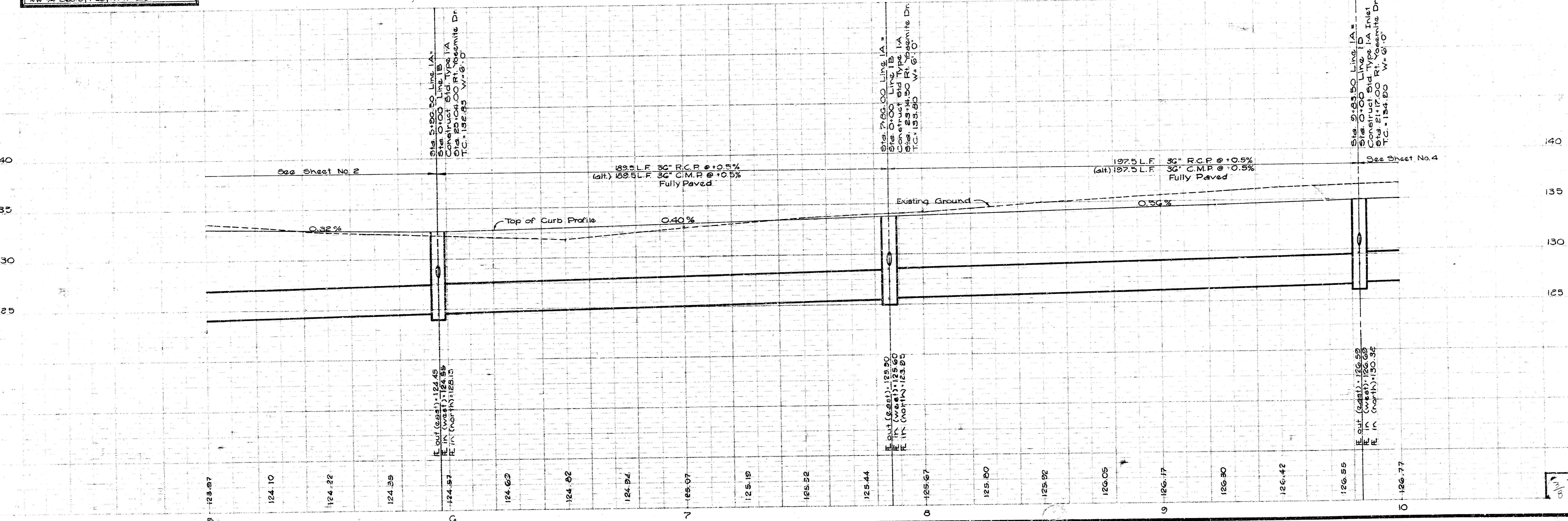


B.M. 5: R.P. Spike N. Pc. fence post
40' W of Center Sec 5, T28, R1 W
Elev = 128.41

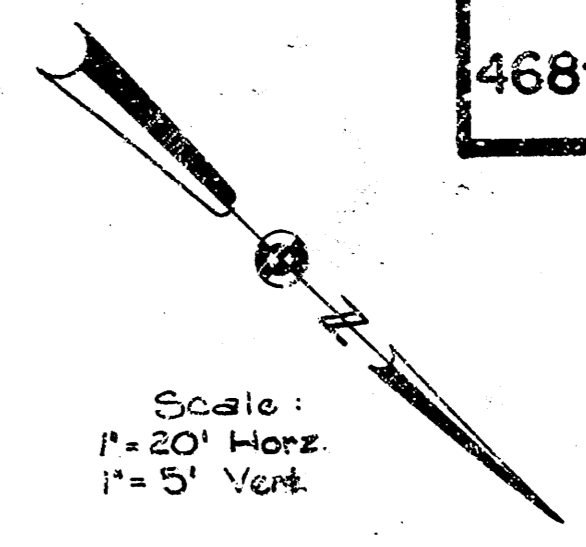




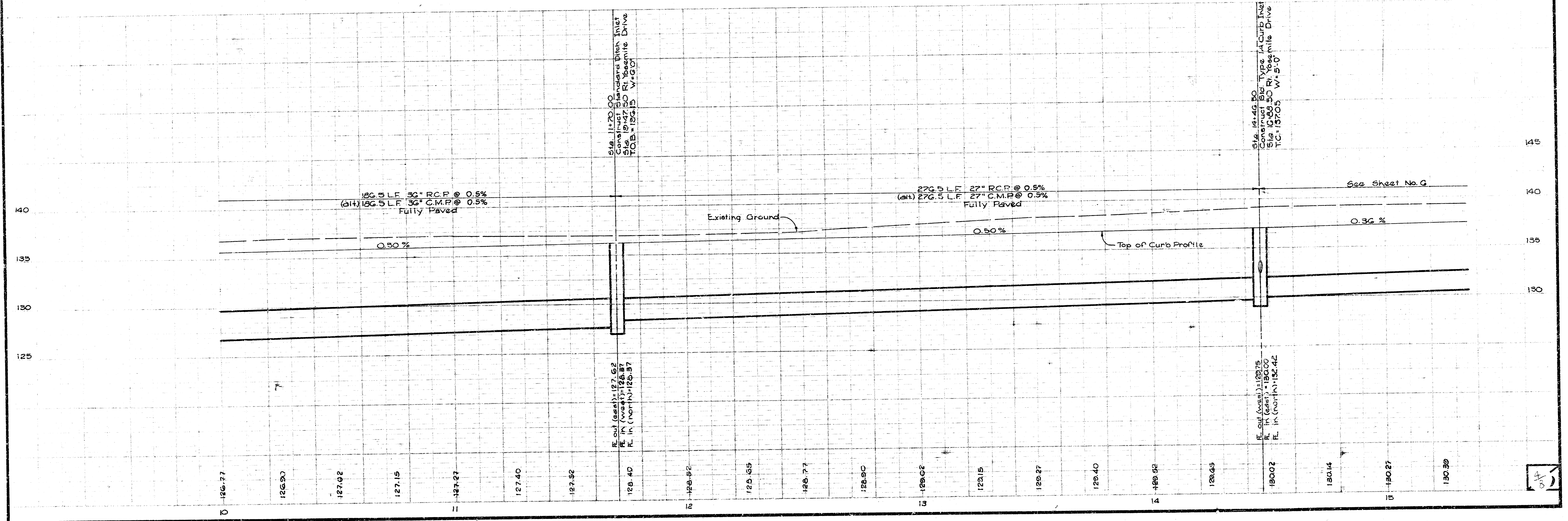
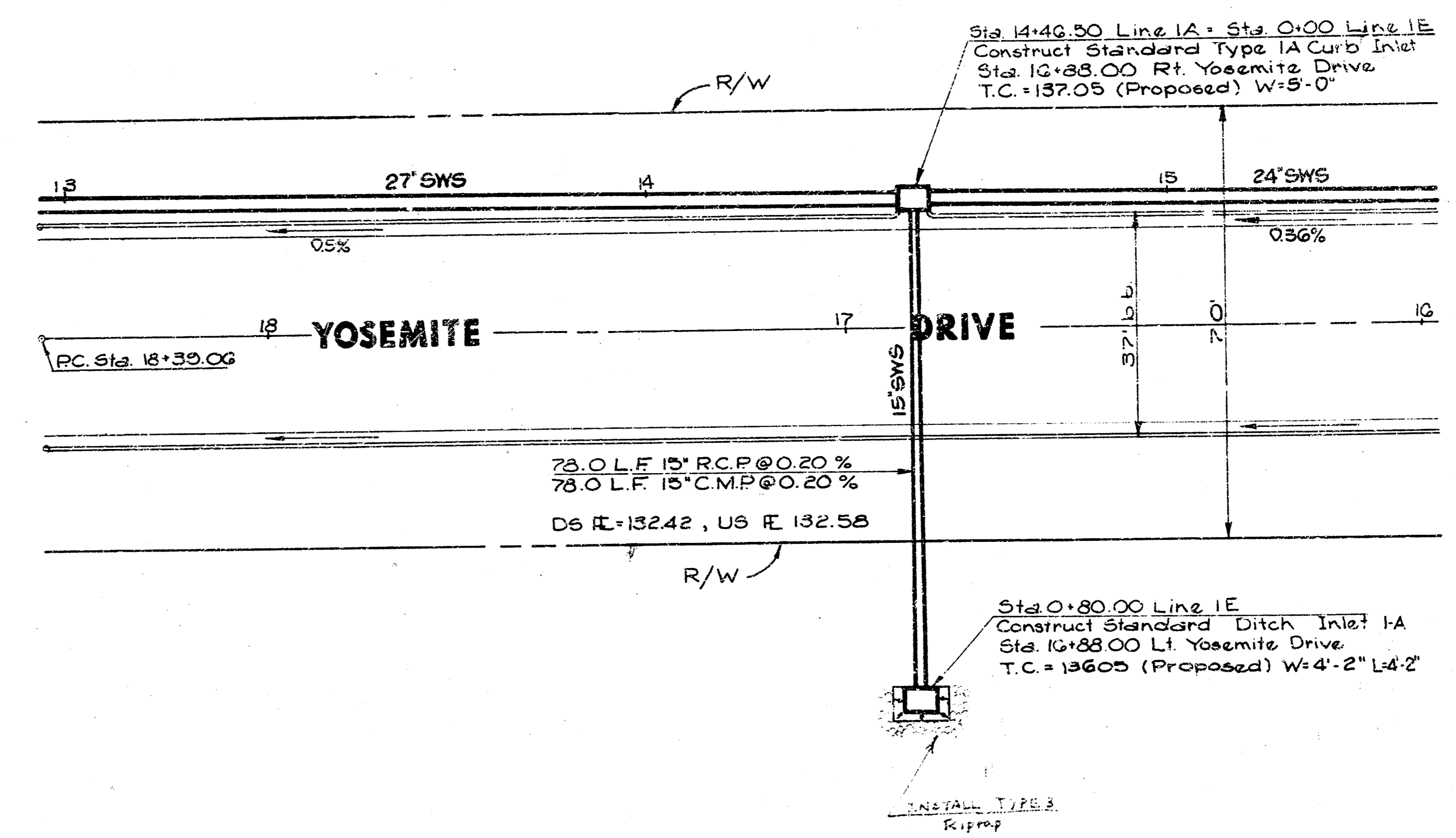
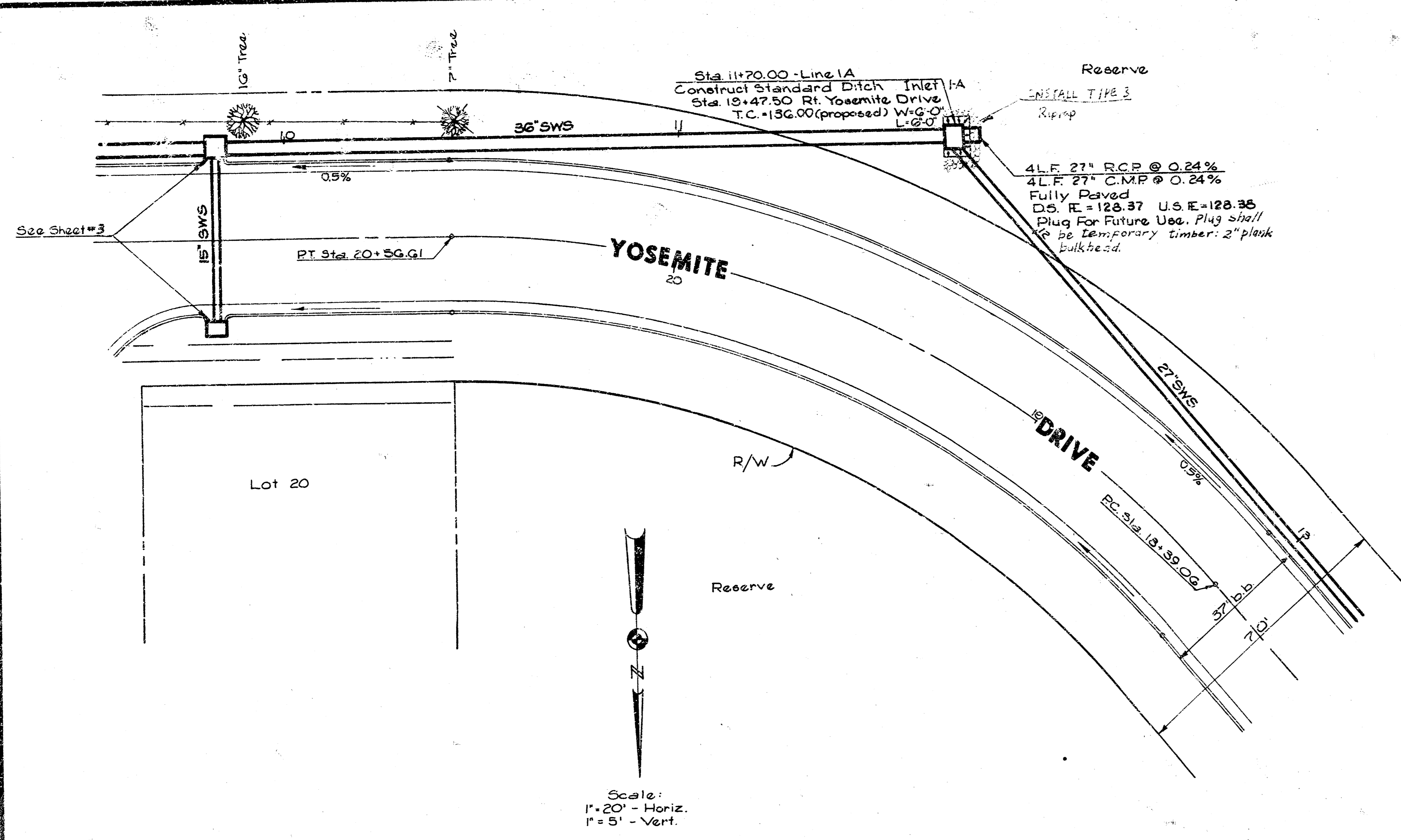
RR spike top mulberry stump
in 1/4" P.C. 1000 ft. W of SE Corner
NW 1/4 Sec. 5, T22, R1W Elev. 139.56

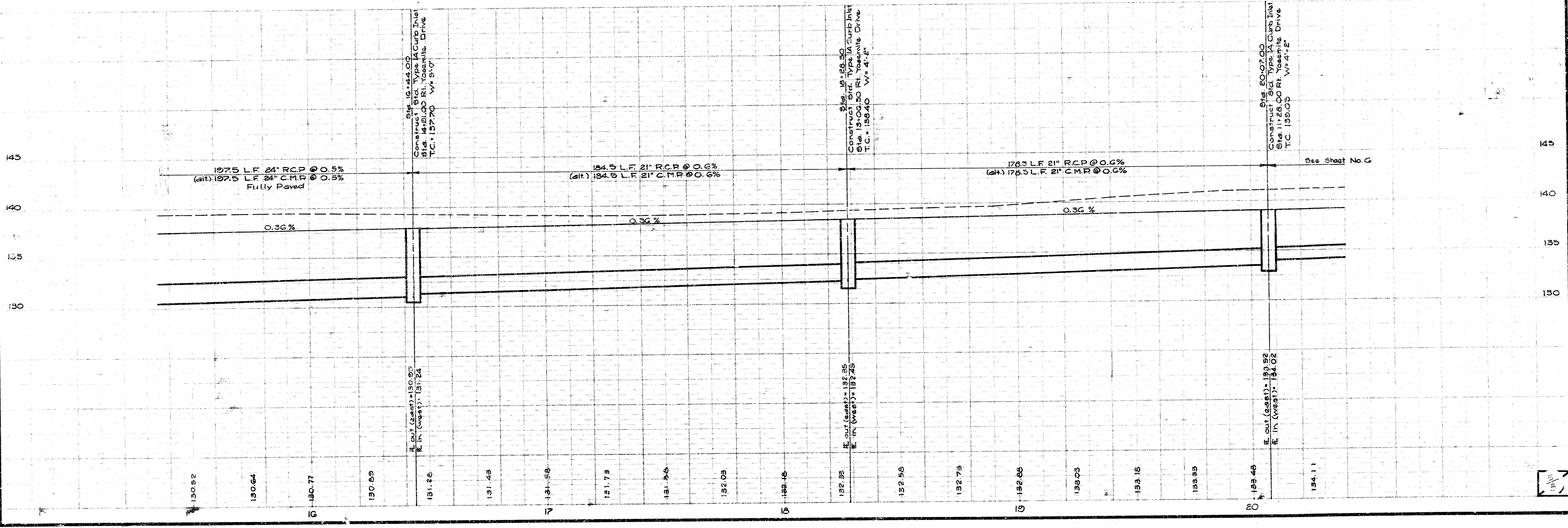
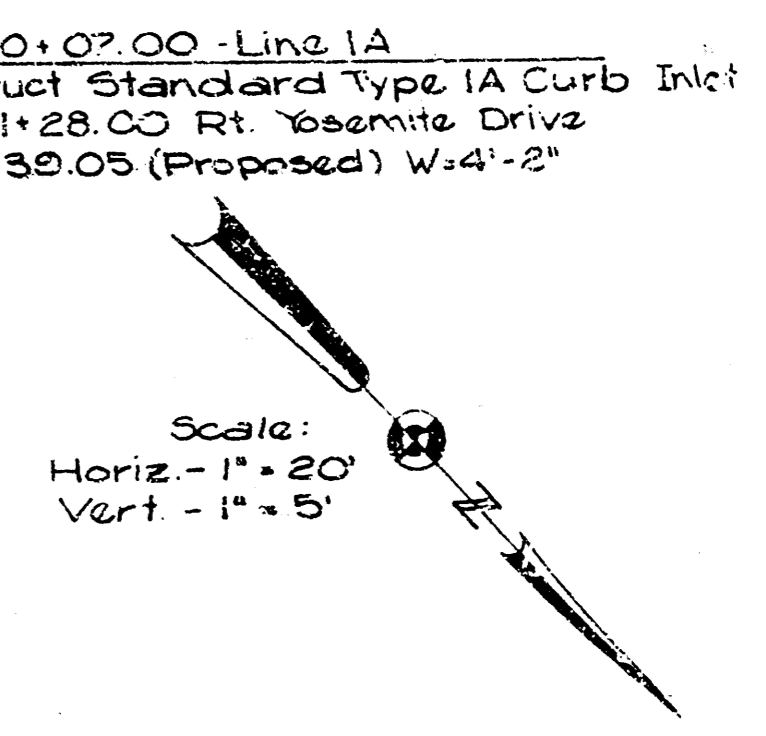
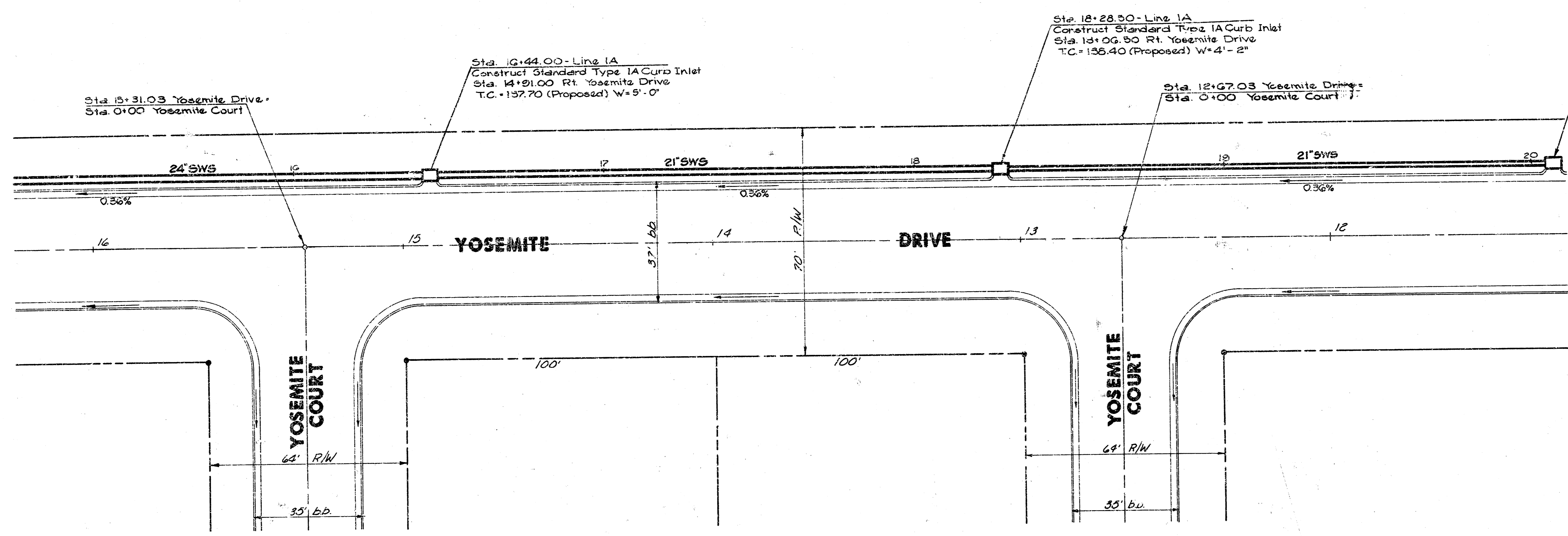


1/10/02

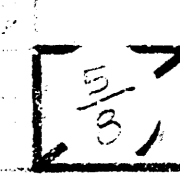


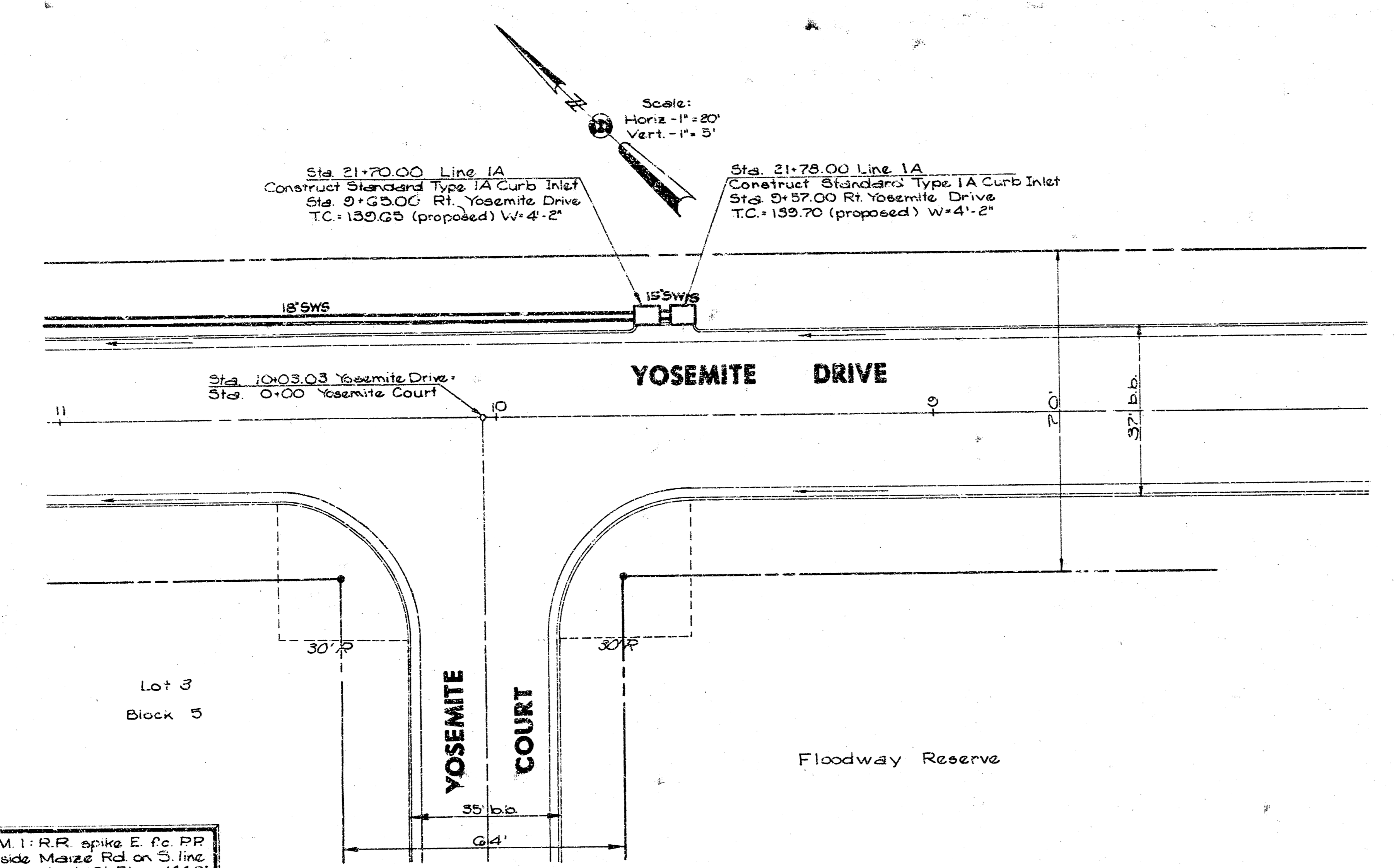
Scale:
1" = 20' Horiz.
1" = 5' Vert.



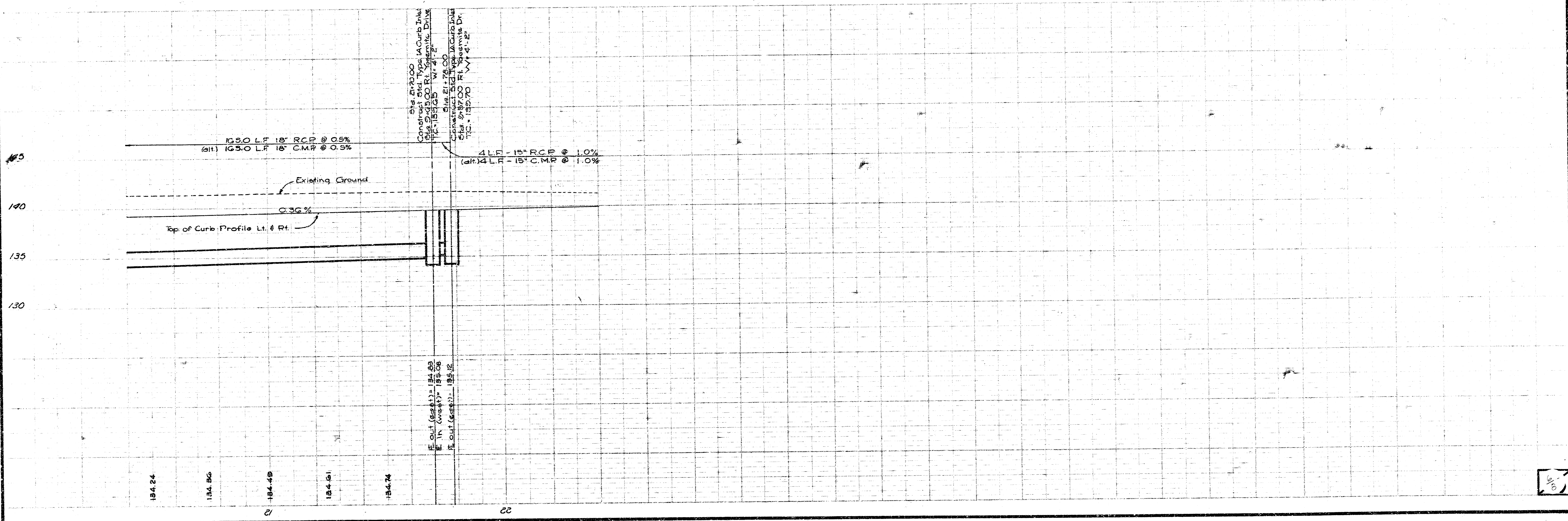


See Sheet No. G

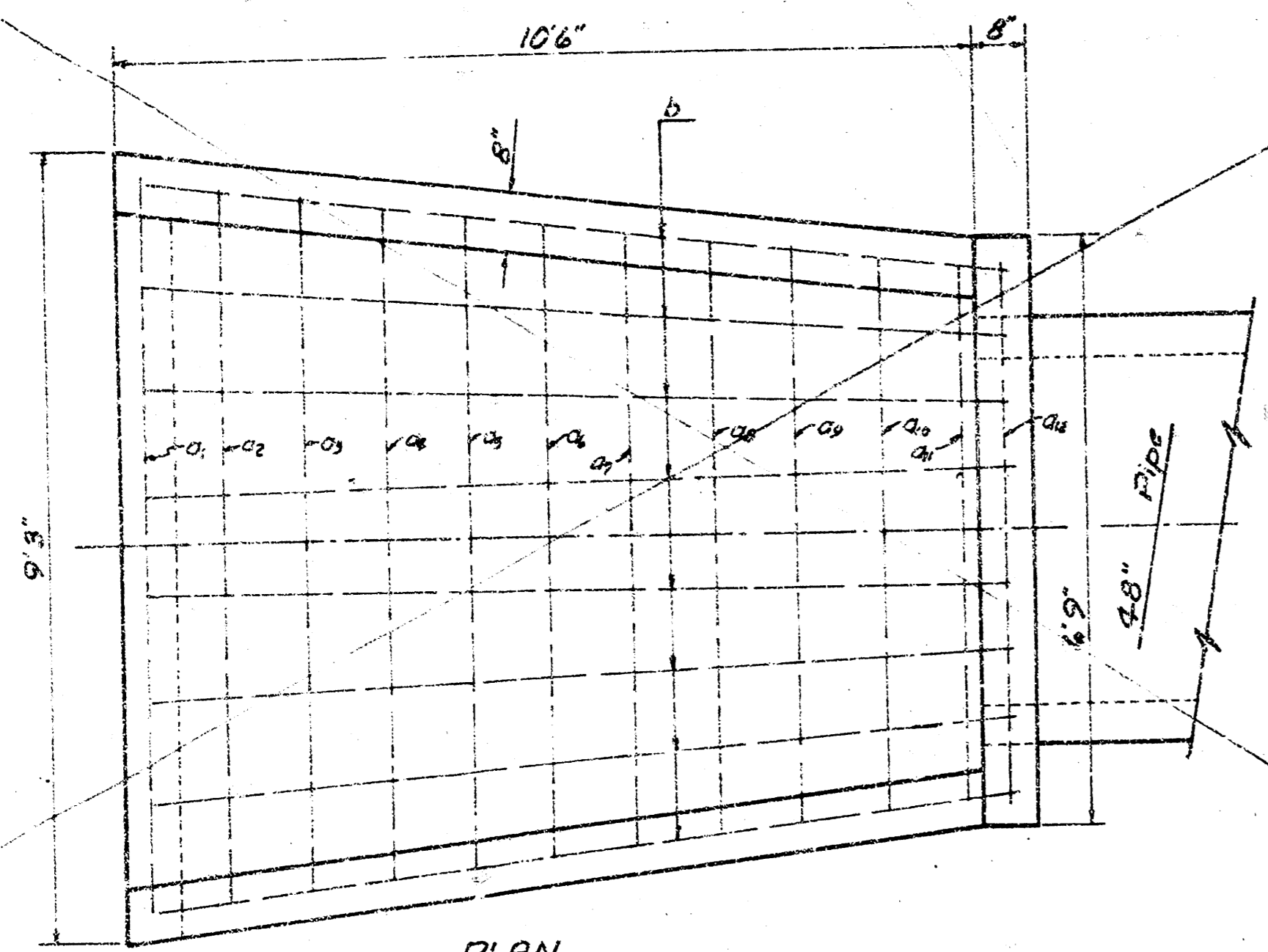




B.M. 1: R.R. spike E. of RR
E. side Maize Rd. on S. line
Shenandoah Ct. Elev. +144.0'



0.5%

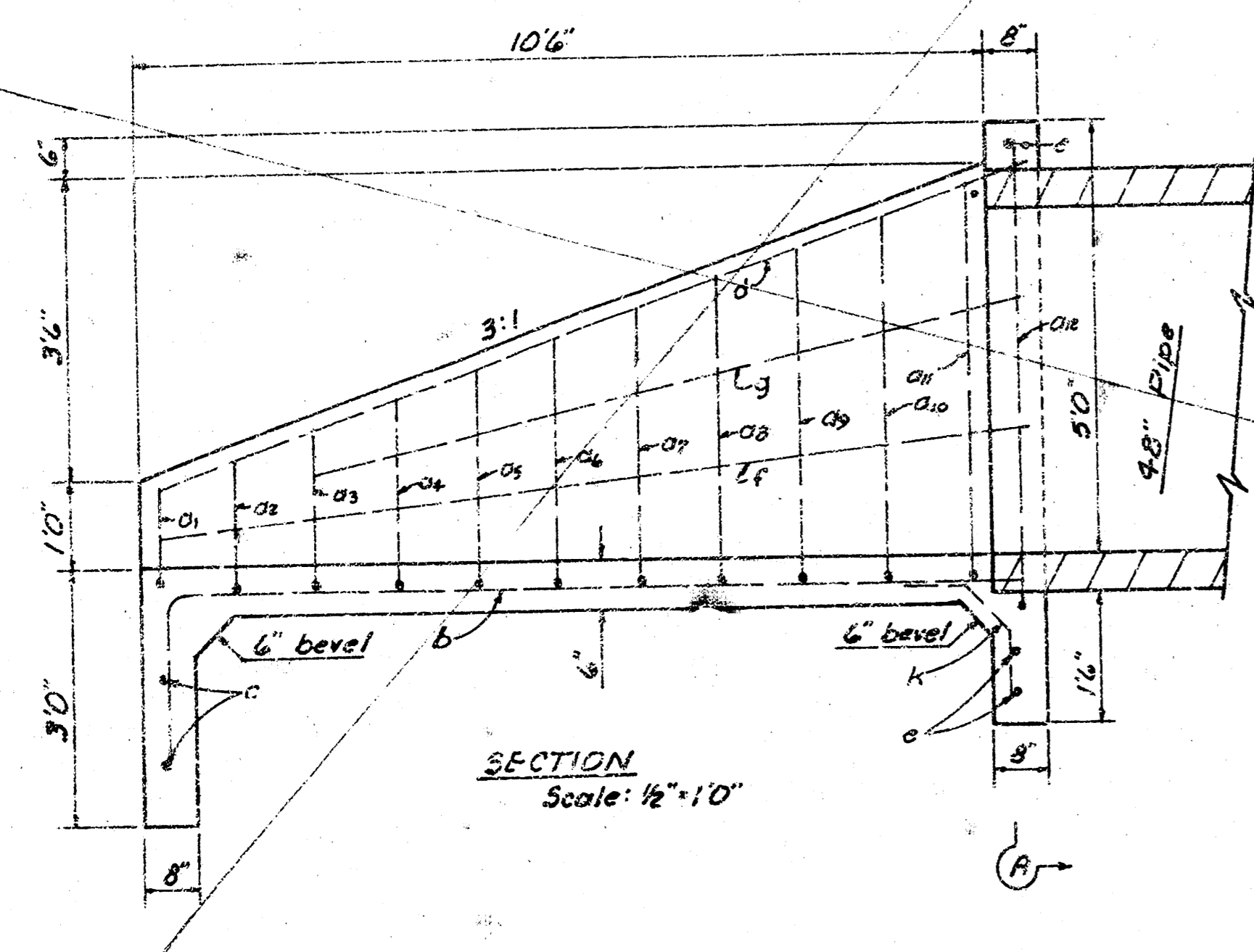


PLAN
Scale: 1/2"=10'

TABLE OF QUANTITIES			
BAR	NUMBER	LENGTH	WEIGHT
a1	1	10'10"	7.24
a2	1	11'3"	7.52
a3	1	11'8"	7.79
a4	1	12'1"	8.07
a5	1	12'6"	8.35
a6	1	13'0"	8.63
a7	1	13'5"	8.91
a8	1	14'0"	9.19
a9	1	14'5"	9.47
a10	1	15'0"	9.75
a11	1	15'5"	10.03
a12	1	16'0"	10.31
b	2	10'7"	11.24
c	2	10'7"	11.24
d	2	8'4"	6.72
e	2	8'4"	6.72
f	2	8'4"	6.72
g	2	8'4"	6.72
h	4	1'2"	3.12
i	4	1'2"	3.12
j	4	1'2"	3.12
k	7	2'6"	11.69
Rebars (lbs)			265.07
Concrete (C.Y.)			4.75

All rebar to be #4

All exposed edges to have 1/8" bevel.

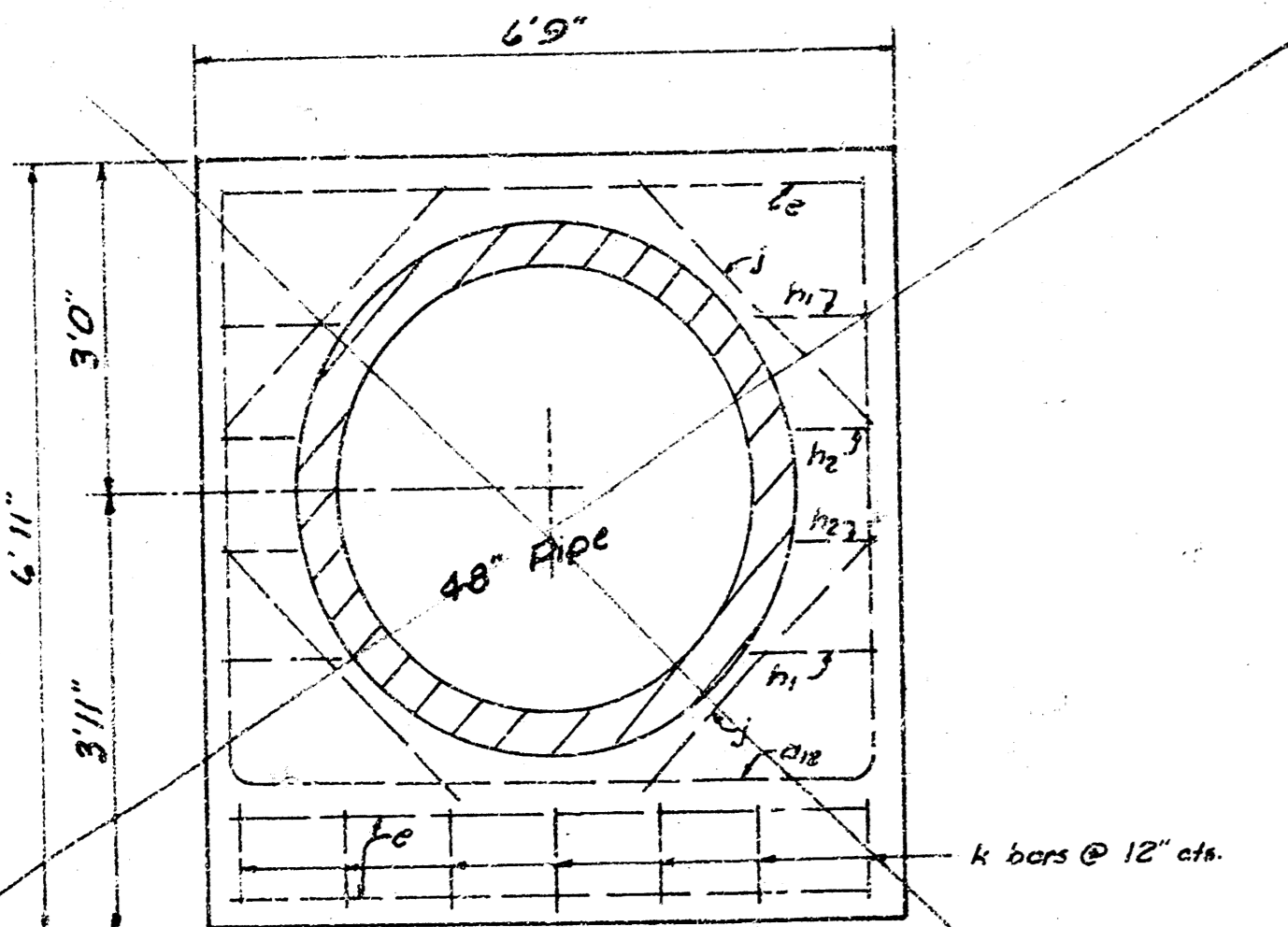


SECTION
Scale: 1/2"=10'

a bars	
a1	8'6"
a2	8'3"
a3	8'0"
a4	7'9"
a5	7'5"
a6	7'3"
a7	7'1"
a8	6'10"
a9	6'7"
a10	6'4"
a11	6'2"
a12	6'2"

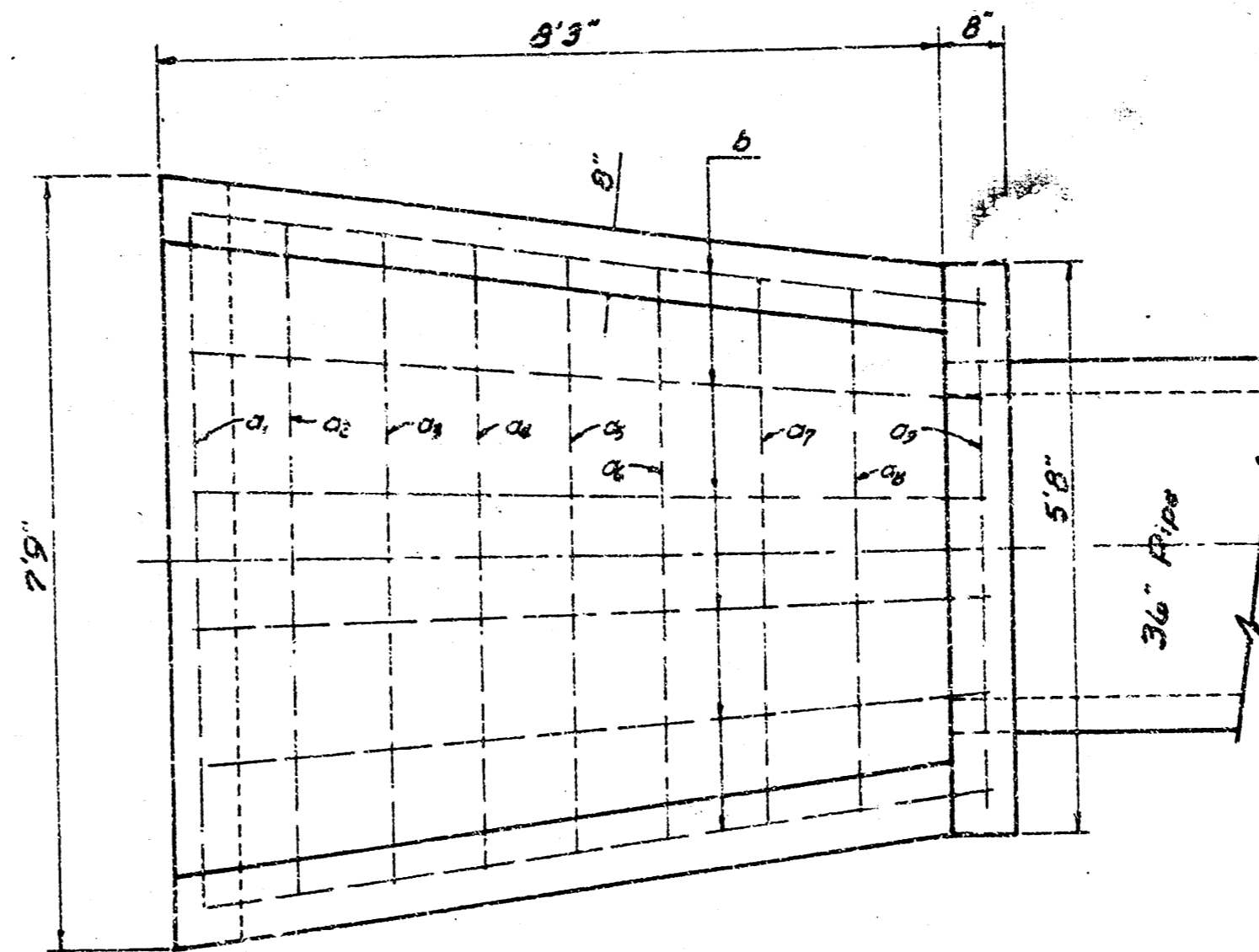
b bars	
b	10'7"

k bars



SECTION A-A
Scale: 1/2"=10'

HEADWALL FOR 48" PIPE

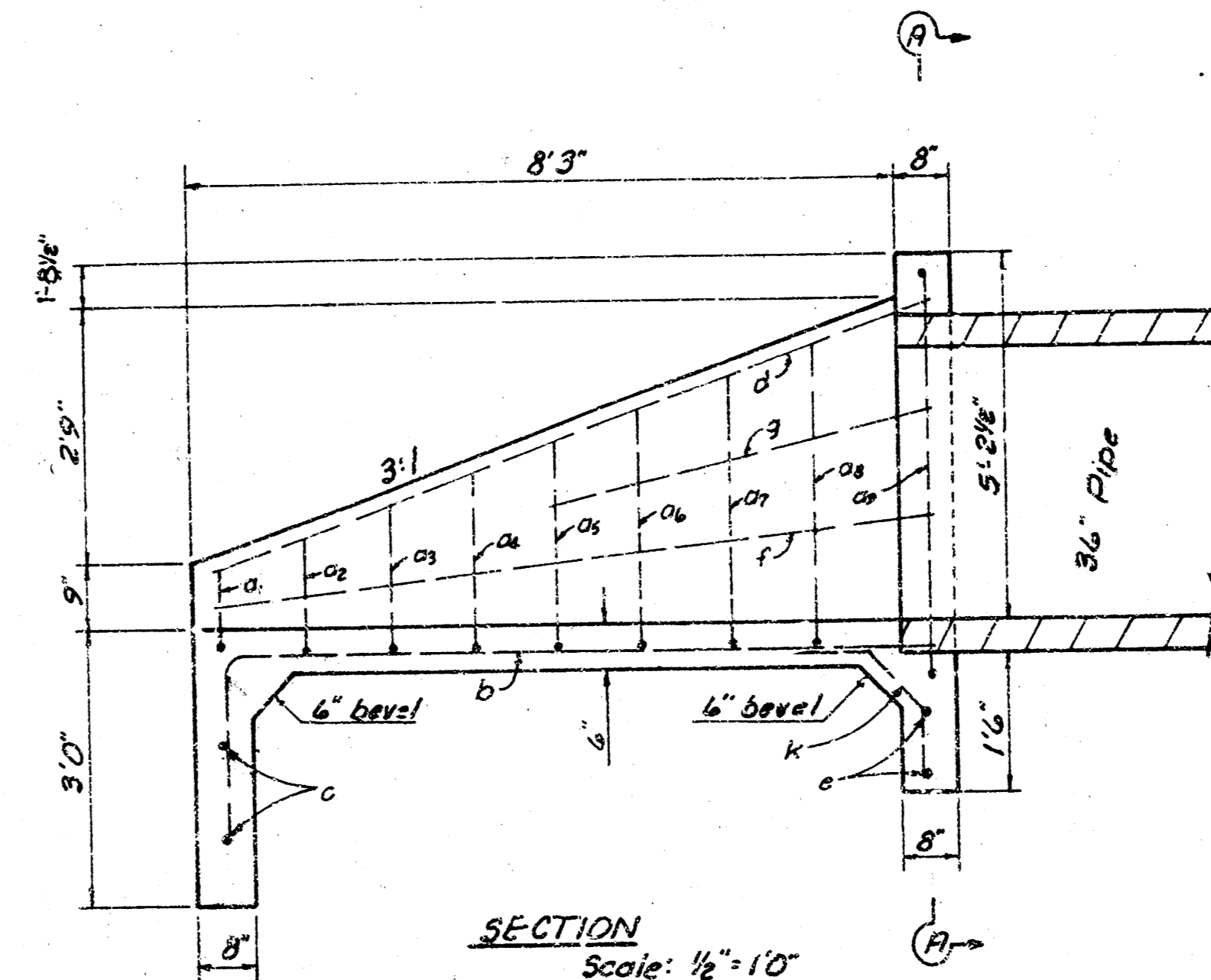


All exposed edges to have 1/8" bevel.

PLAN
Scale: 1/2"=10'

TABLE OF QUANTITIES			
BAR	NUMBER	LENGTH	WEIGHT
a1	1	8'7"	5.73
a2	1	9'0"	6.01
a3	1	9'7"	6.40
a4	1	10'0"	6.68
a5	1	10'5"	6.96
a6	1	10'10"	7.24
a7	1	11'3"	7.52
a8	1	11'10"	7.90
a9	1	12'0"	8.18
b	6	10'4"	41.48
c	2	7'0"	9.35
d	2	9'0"	12.02
e	3	5'4"	10.69
f	2	8'3"	11.24
g	2	4'7"	6.12
h	4	1'5"	4.01
i	4	1'0"	2.23
j	4	3'0"	8.02
k	6	2'4"	10.02
Total Rebars, lbs			178.91
Conc. C.Y.			3.20

All Rebars to be #4

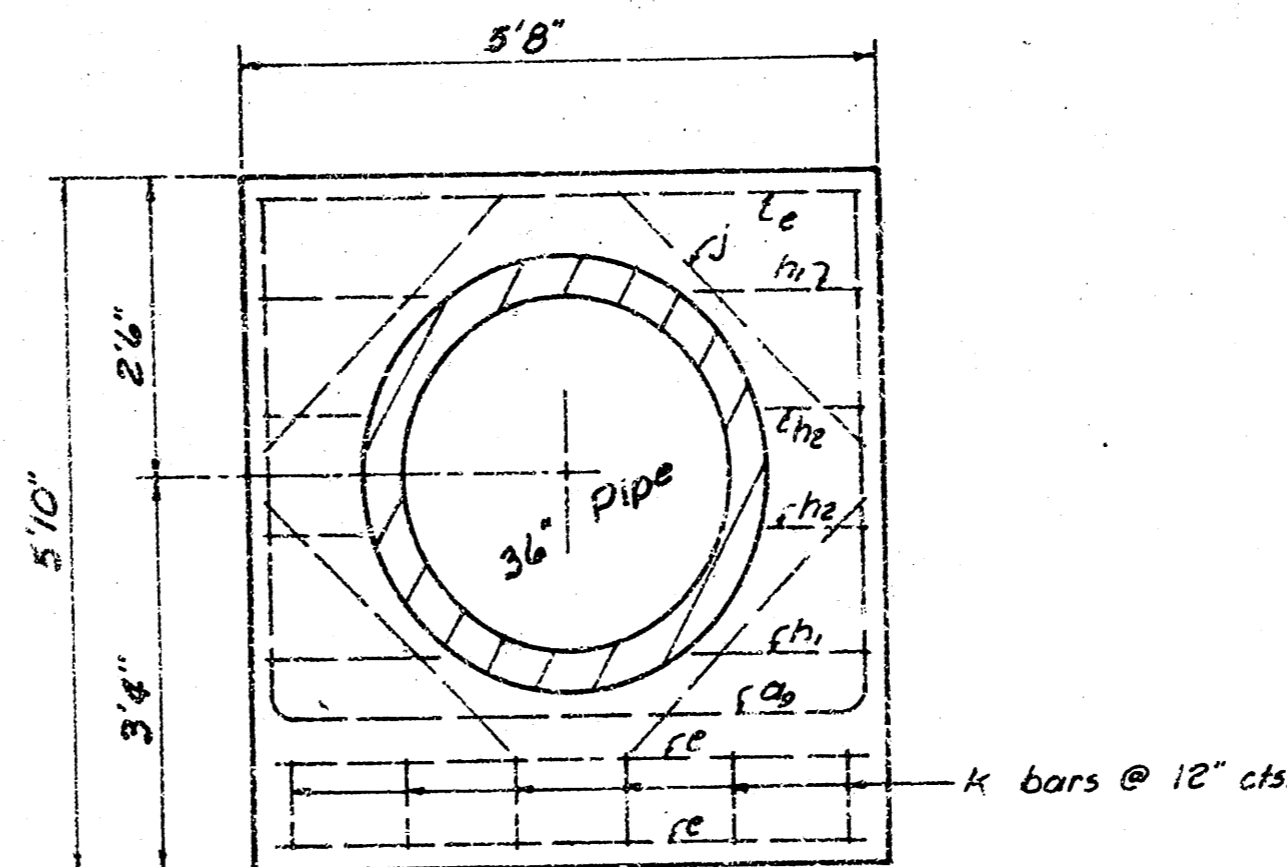


SECTION
Scale: 1/2"=10'

a bars	
a1	6'11"
a2	6'8"
a3	6'5"
a4	6'2"
a5	5'11"
a6	5'8"
a7	5'5"
a8	5'2"
a9	5'2"

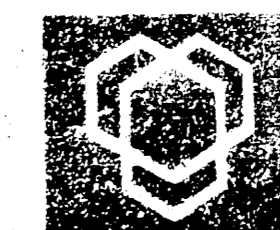
b bars	
b	8'4"

k bars



SECTION A-A
Scale: 1/2"=10'

HEADWALL FOR 36" PIPE



Van Doren - Hazard - Stallings

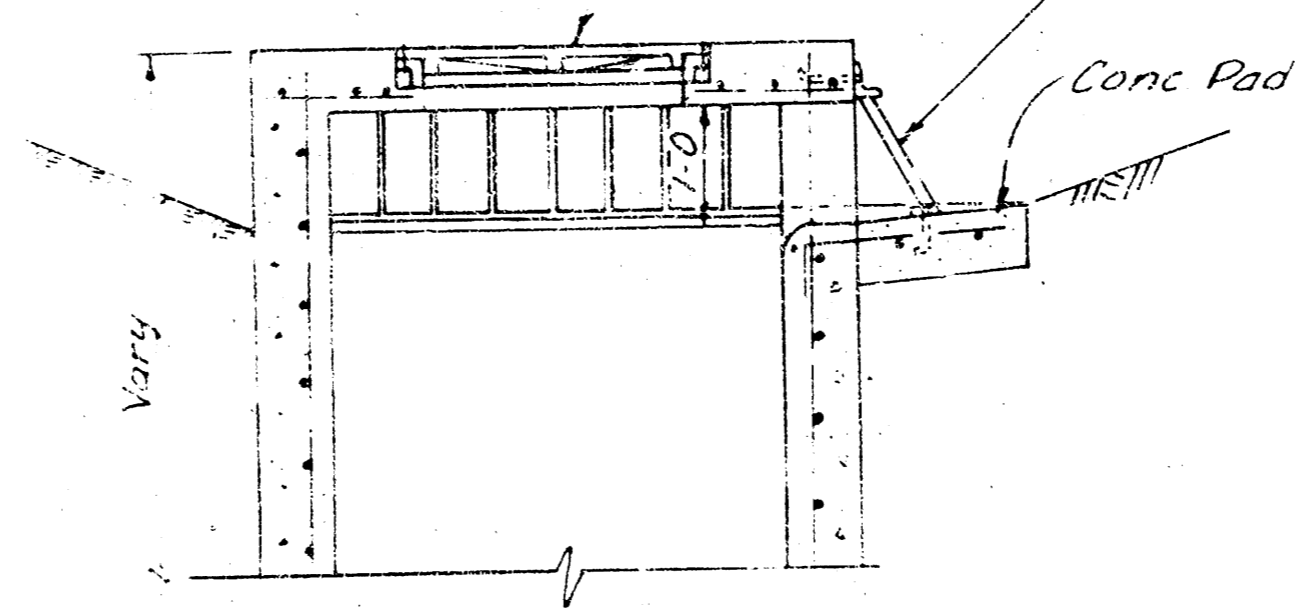
Architects • Engineers • Planners
Topeka Wichita Minneapolis

*** NOTE**

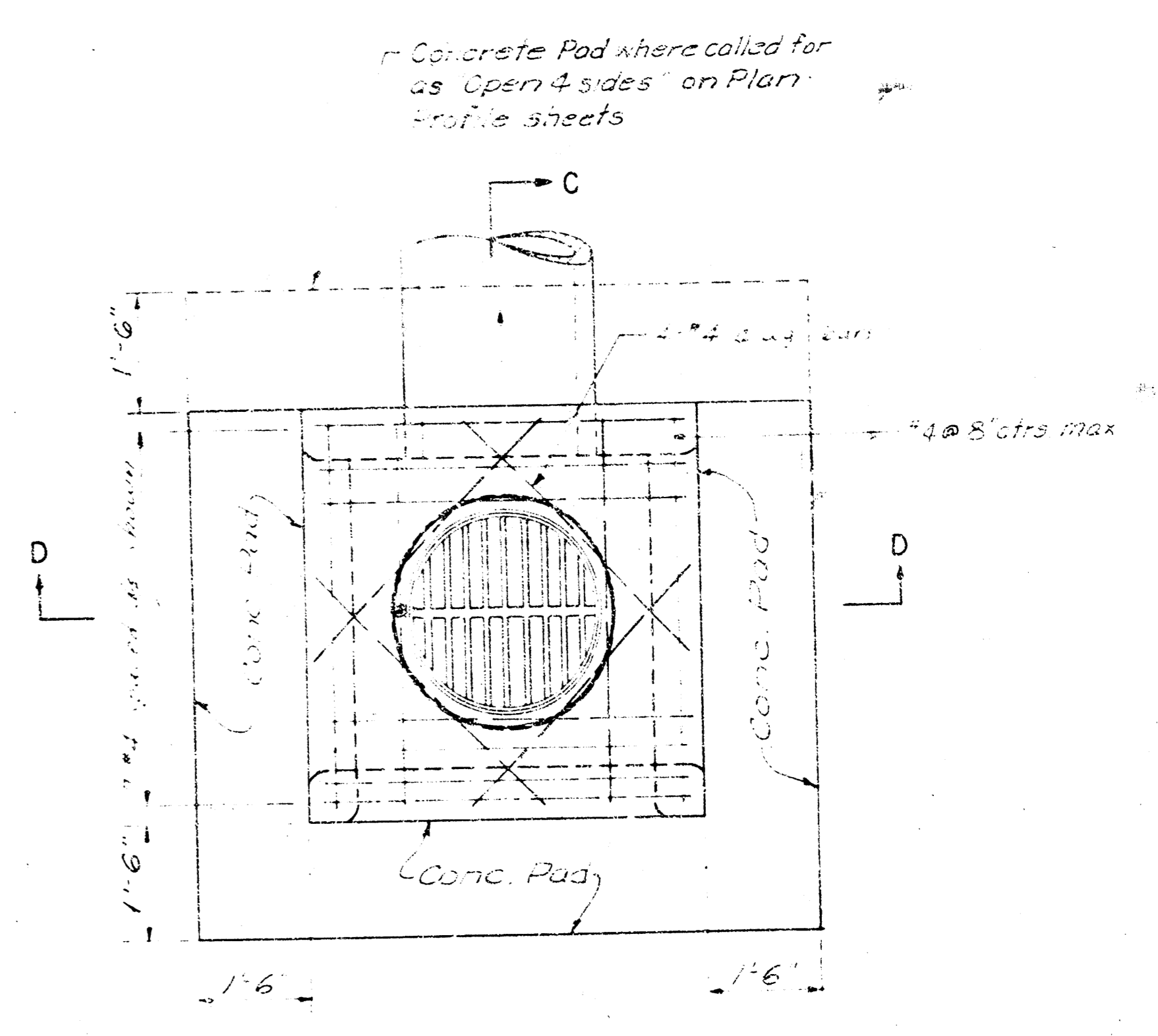
Typical Trash Rack Construction
 Top Bars 2" x 2" x 4 L.L.V.
 Verticals 1/2" Rod - 6 ctrs.
 Bot. Bar 1/2" x 2"
 Anchors 1/2" x 3" Bolts Bent Galv.
 Hot Dip Galvanize after fabrication

Cast Iron Manhole Rings Cover (Bolted Lid)
 Neenah Foundry No. R-1315-52
 or Approved Equal

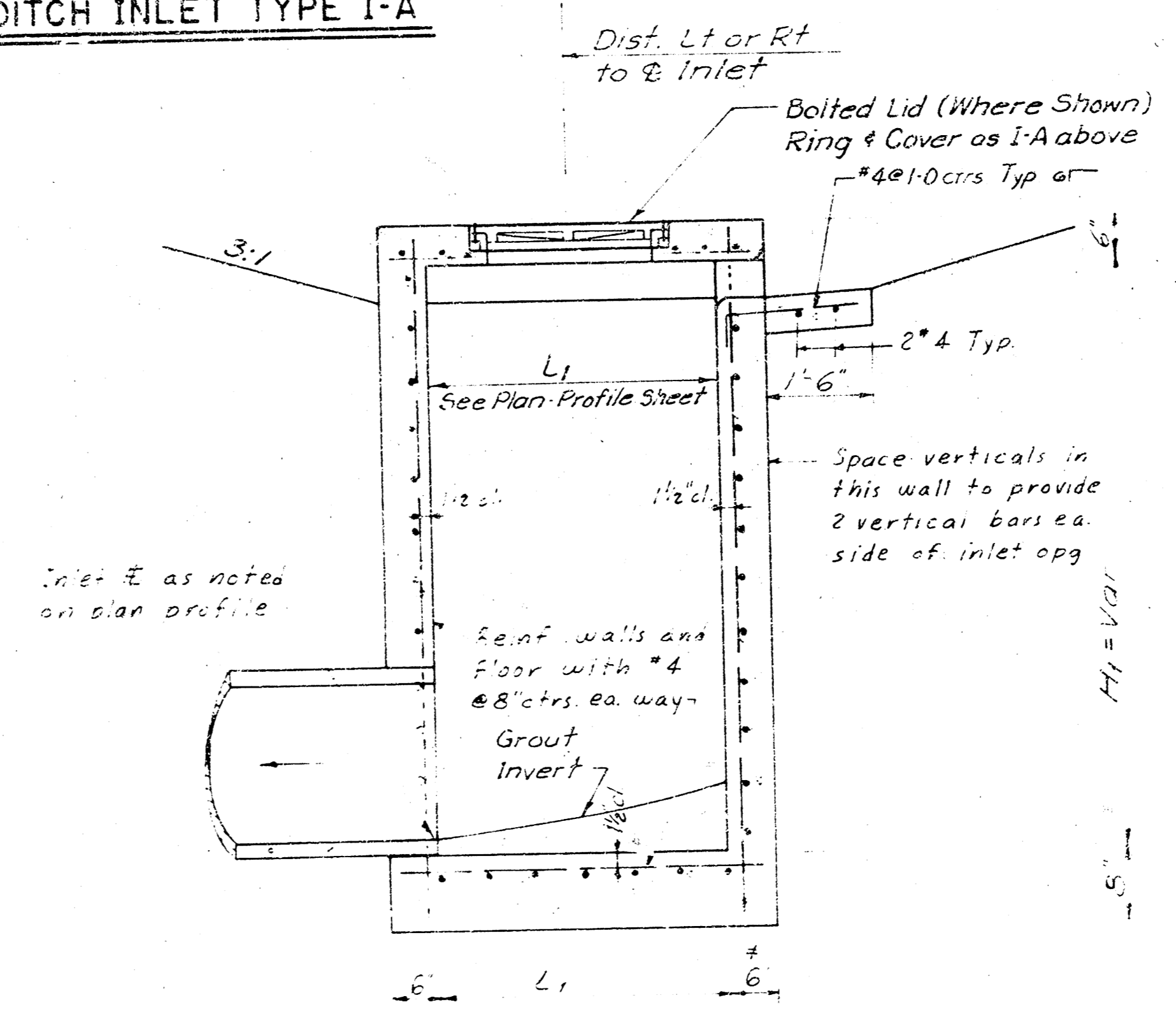
Trash Rack
 on 3 Sides



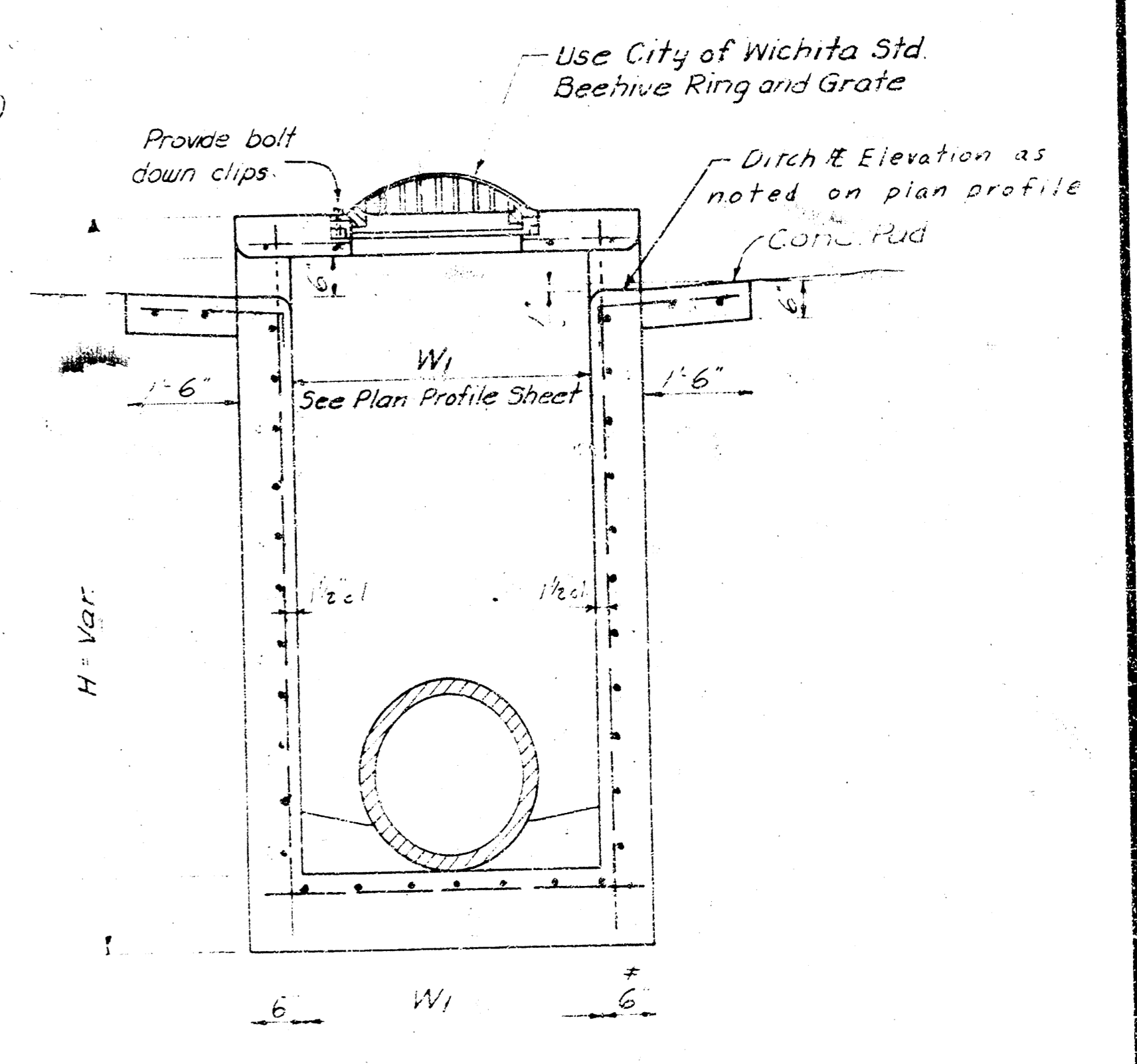
SECTION C-C
for
DITCH INLET TYPE I-A



PLAN



SECTION C-C
INLET-I



SECTION D-D

DITCH INLET TYPE I

* Where dimension 'H' is greater than 6', use 8" wall thickness.

DESIGN
DATE
BY
CHECKED
DATE
BY

DITCH INLET TYPE I & IA AND
 BEHIVE CONCRETE MANHOLE
 VAN DOREN - HAZARD - STALLINS
 ARCHITECTS - ENGINEERS - PLANNERS
 SHEET 9
 OF 35