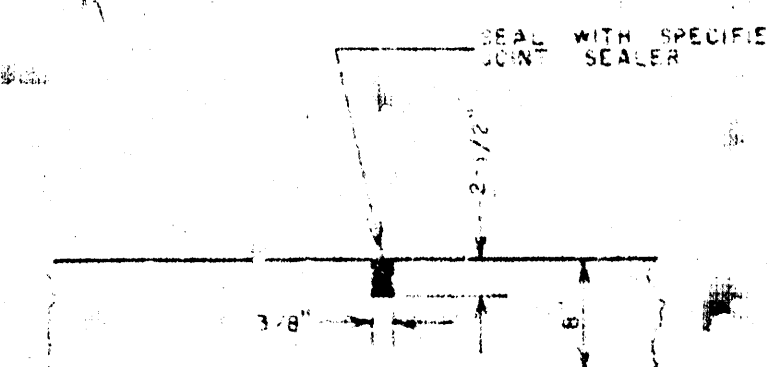


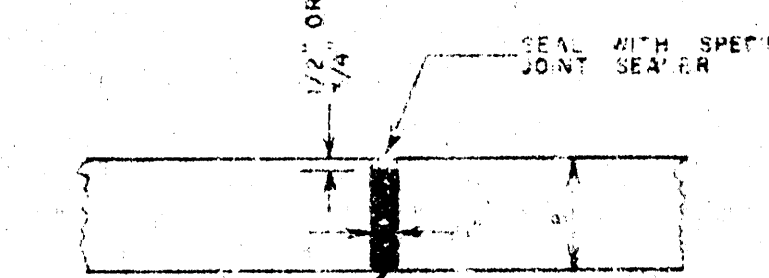
13th St.
LITTLE ARK RIVER to W.L. WACO
PROJ. NO. DAKM 572009
CITY OF WICHITA, KANSAS
R. W. LINN, CITY ENGINEER

SAWED CONTRACTION JOINTS ARE TO BE CONSTRUCTED AT 30' 0" INTERVALS EXCEPT WHERE AN EXPANSION JOINT IS USED.

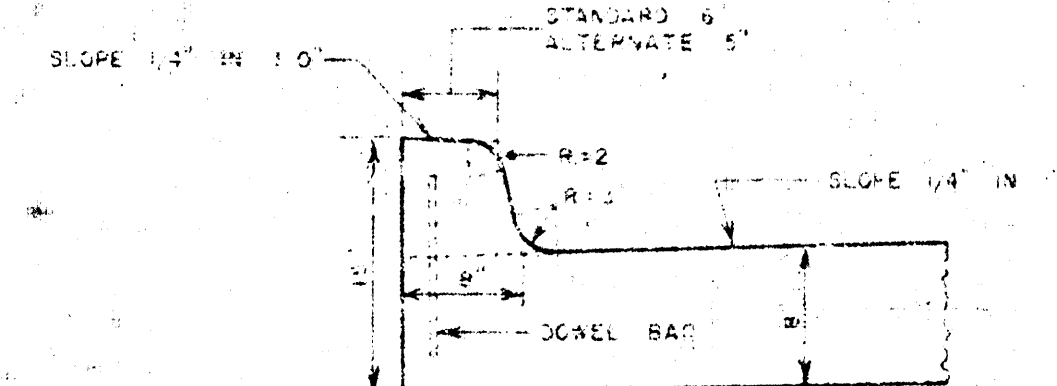


DETAIL OF SAWED CONTRACTION AND LONGITUDINAL JOINTS

EXPANSION JOINTS ARE TO BE CONSTRUCTED AT MAXIMUM INTERVALS OF 120' 0".

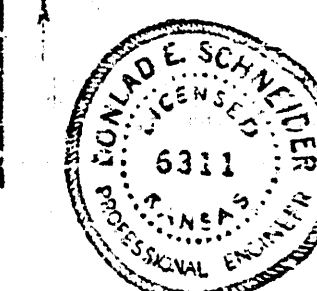
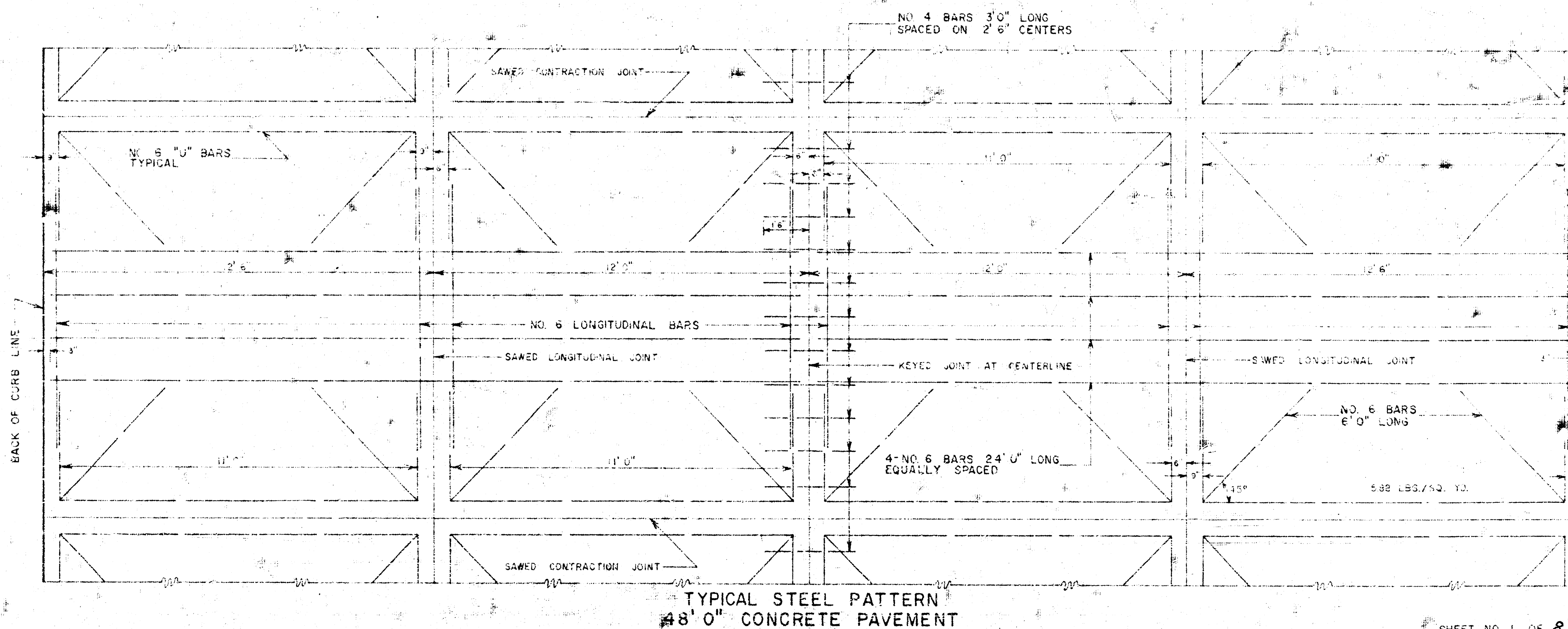
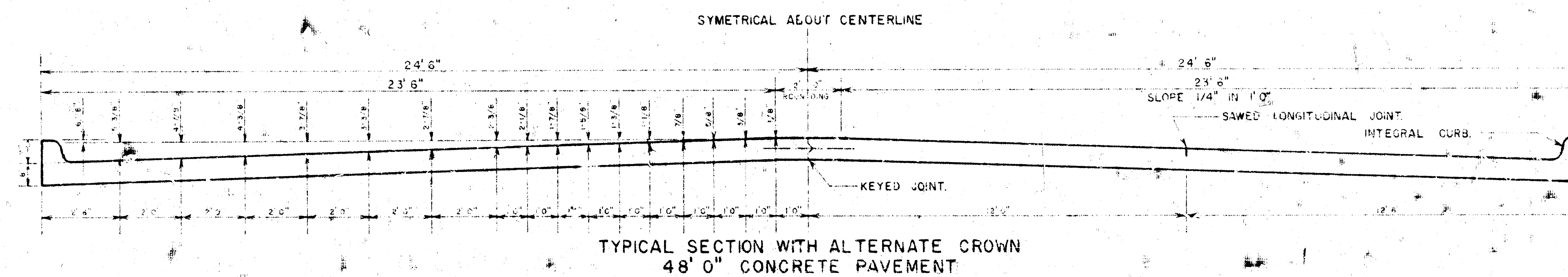
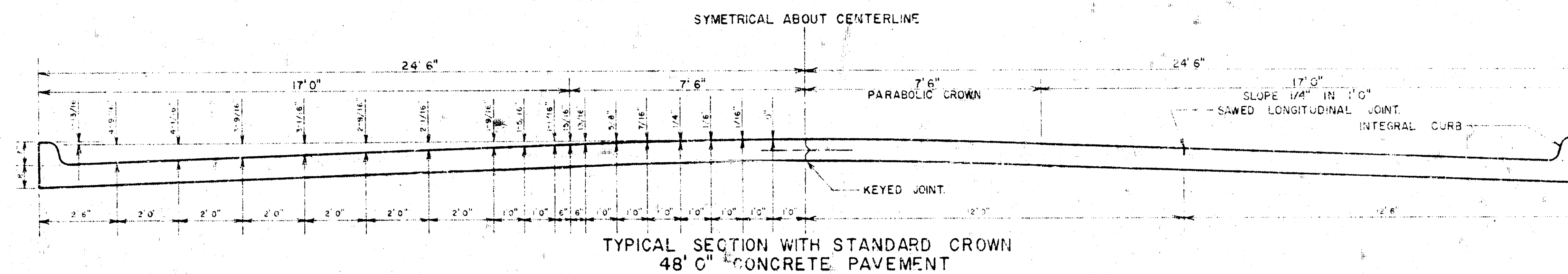


DETAIL OF EXPANSION JOINT



DETAIL OF INTEGRAL CURB

INTEGRAL CURB SHALL BE CUT THROUGH TO THE PAVEMENT IN UNIFORM LENGTHS OF NOT MORE THAN TEN FEET INTERVALS BETWEEN EXPANSION JOINTS HAVING THE SAME THICKNESS AS THE EXPANSION JOINTS IN THE PAVEMENT SHALL BE CONSTRUCTED IN THE INTEGRAL CURB AT THE SPECIFIED LOCATIONS. NUMBER 4 OR NUMBER 6 COWELS SHALL BE INSTALLED IN THE INTEGRAL CURB AS SHOWN ON APPROXIMATELY 2' 6" CENTERS. PAVEMENT GRADES SHOWN ON PLANS ARE FOR STANDARD CROWN.



Survey: Dulles
 Station: Lacey
 Date: 10-1-72

B.M. 116.20 Brass Rod in concrete post
 37'E. and 23'S. of 13th and Broadway
 Thumbe #1, Sta. 4+00, on Section line
 Thumbe #2, Sta. 4+57, 29' S. of Section line
 Thumbe #3, Sta. 4+57, 24'S. of Thumbe #2

B.M. 124.07 NE. corner, base of signal control
 box at R.R. S. of 13th and W. of Market
 B.M. 124.07 City of Wichita bench mark, disc
 at end of N.E. wingwall of bridge.

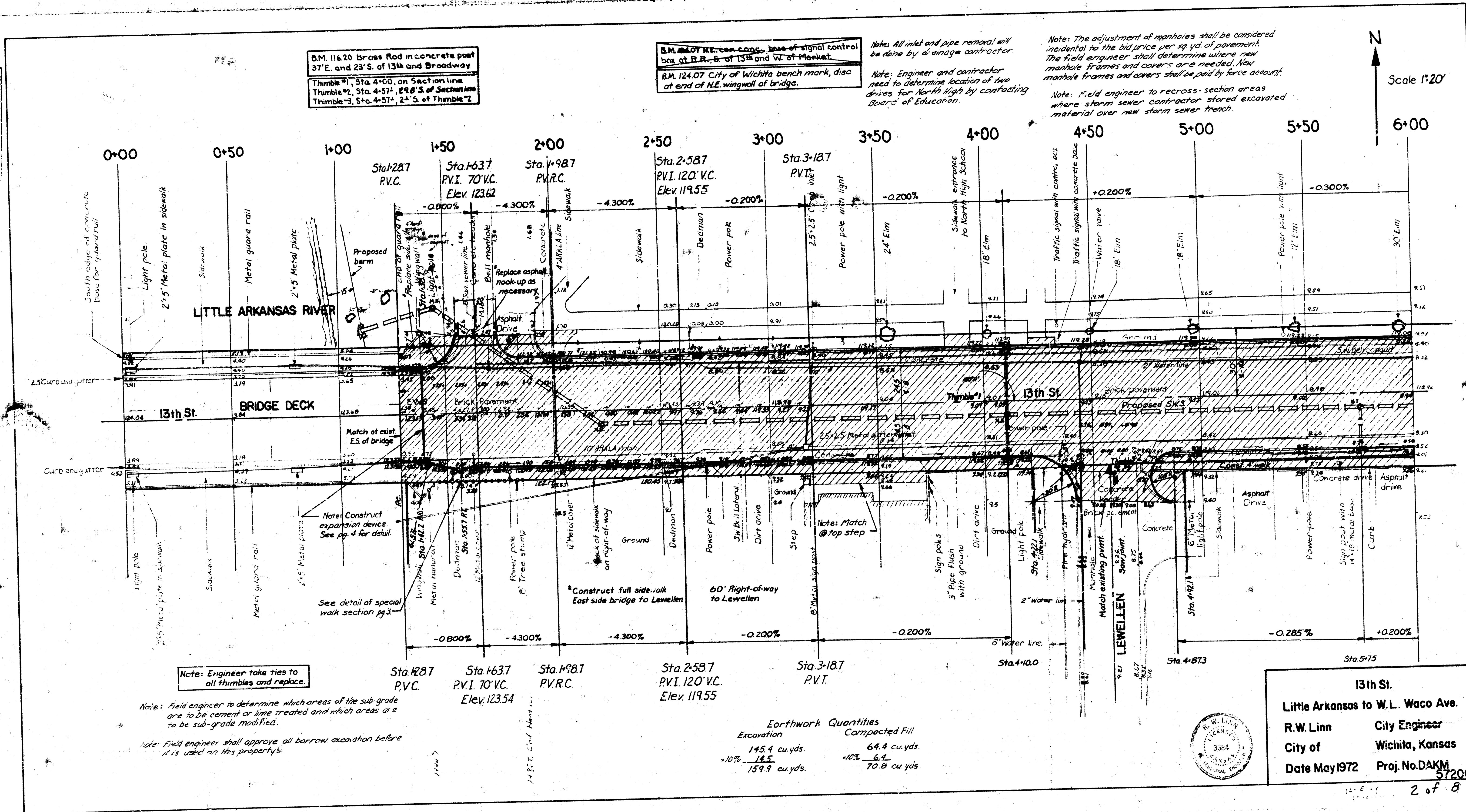
Note: All kind and pipe removal will
 be done by drainage contractor.

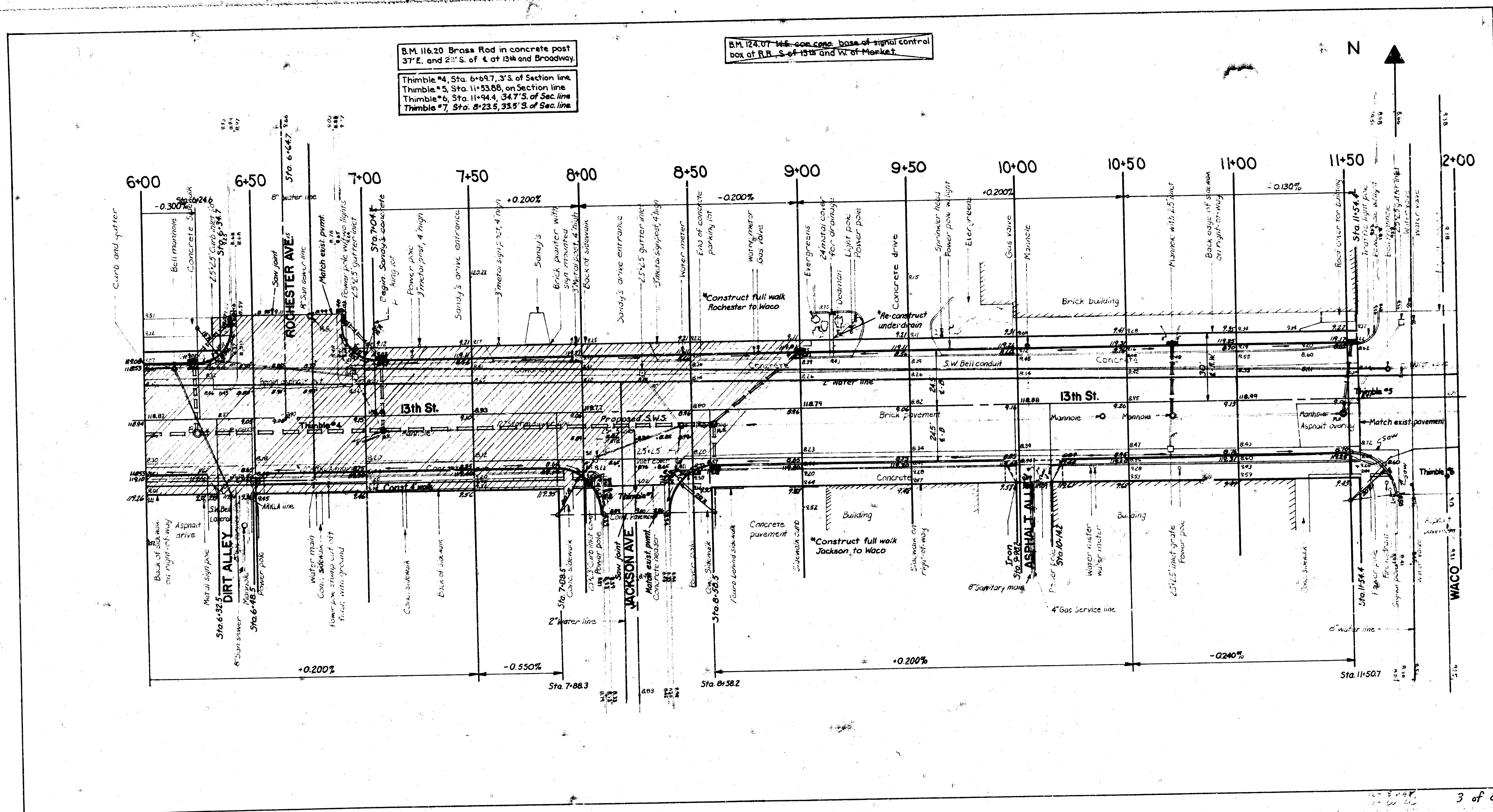
Note: Engineer and contractor
 need to determine location of two
 drives for North High by contacting
 Board of Education.

Note: The adjustment of manholes shall be considered
 incidental to the bid price per sq. yd. of pavement.
 The field engineer shall determine where new
 manhole frames and covers are needed. New
 manhole frames and covers shall be paid by force account.

Note: Field engineer to re-cross-section areas
 where storm sewer contractor stored excavated
 material over new storm sewer trench.

N
 Scale 1"=20'

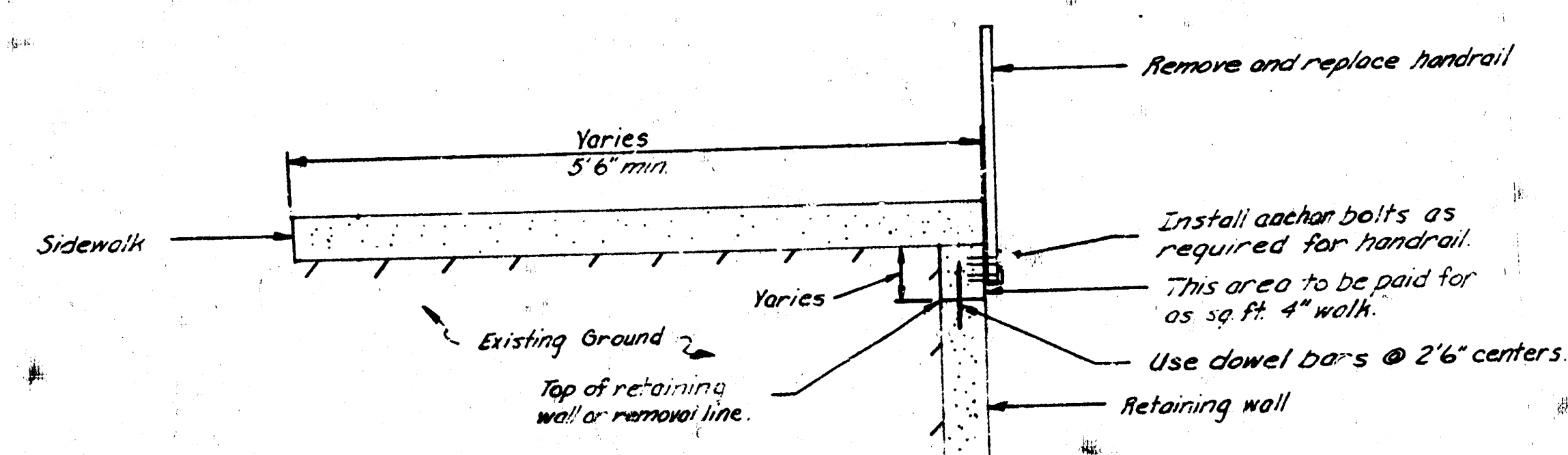
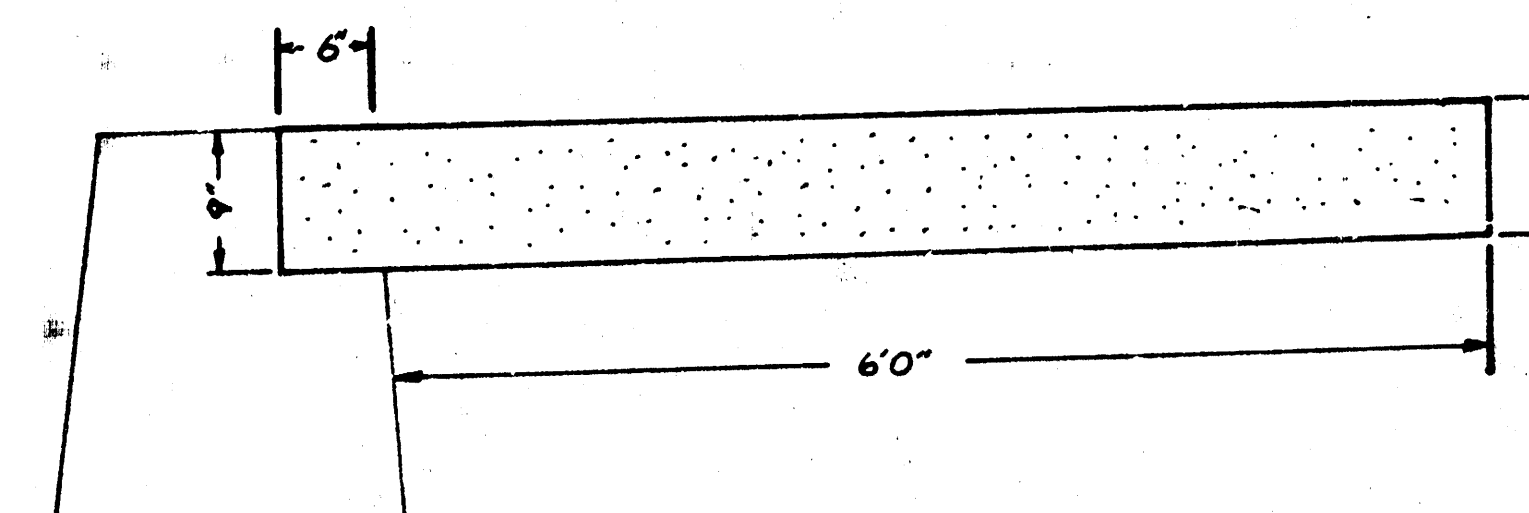
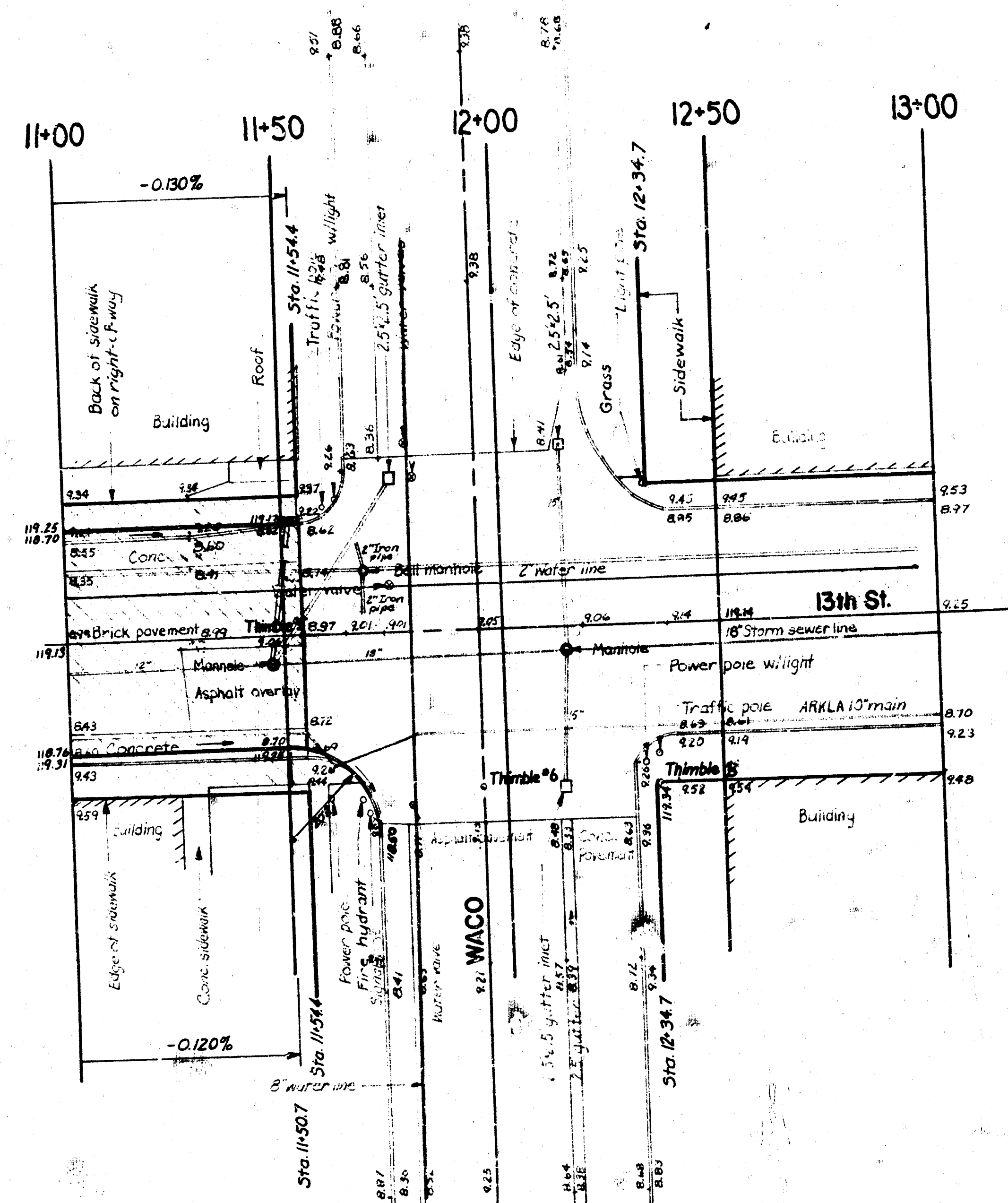




BM 11620 Brass Rod in concrete post
37' E. and 29' S. of E 13th and Broadway.

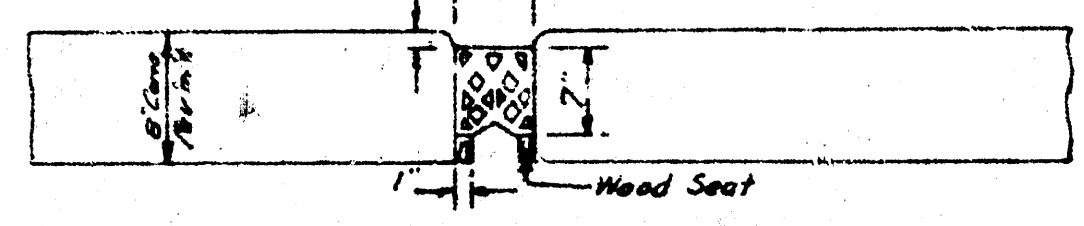
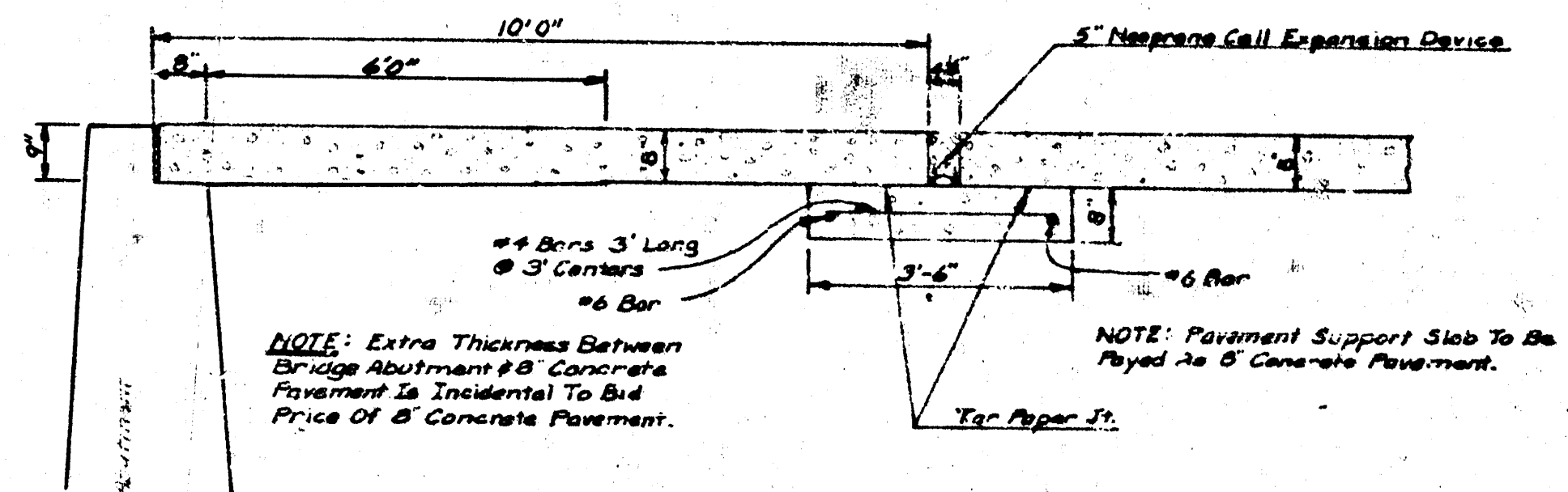
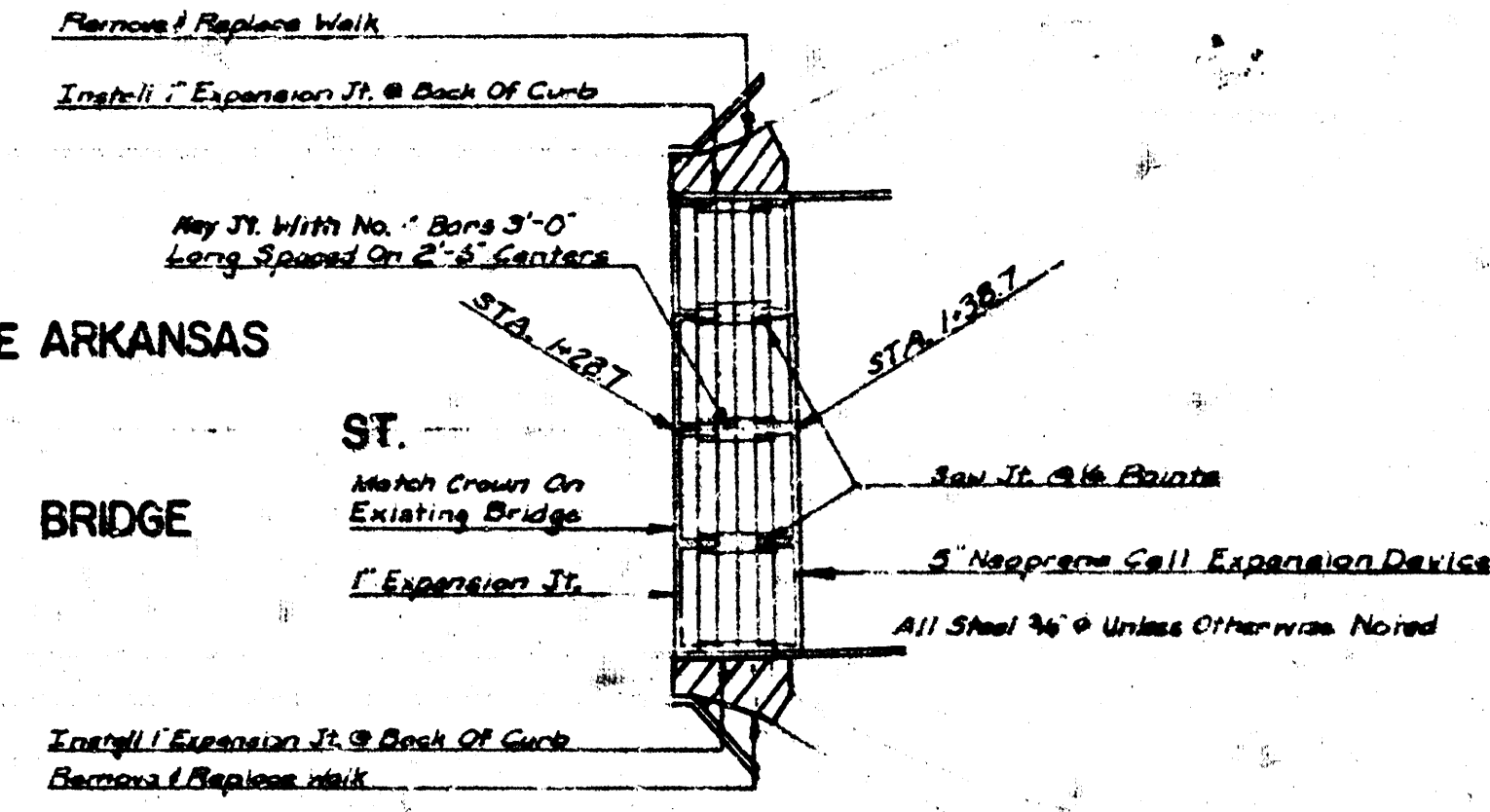
Thimble #5, Sta. 11+53.66, on Section line
Thimble #6, Sta. 11+94.4, 347.5 of Sec. line
Thimble #8, Sta. 12+34.7, 346.5 of Sec. line

BM 12407 NE corner concrete base signal control
box at R.R. S. of 13th and W. of Market.



Note: Cost of furnishing and installing anchor bolts to be included in bid price for removing and replacing handrail.

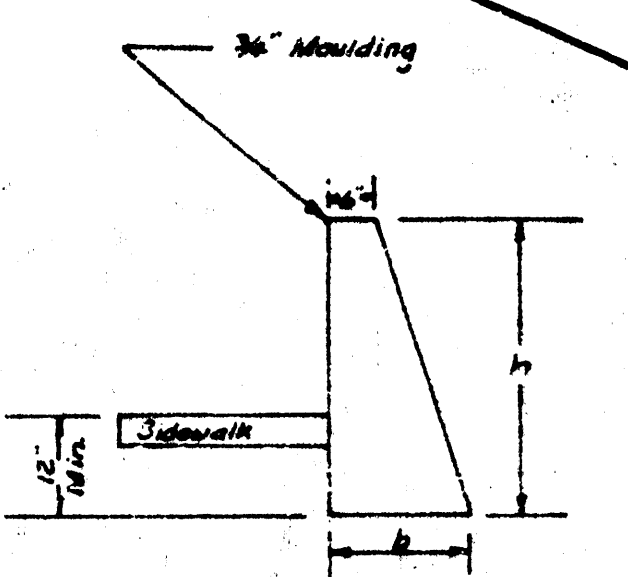
LITTLE ARKANSAS 13th RIVER BRIDGE



Install 5' Wide Prefabricated Open Cell Neoprene Joint Seal. Use "H" Series Delectic Bridge Seal Catalog No. H-5000, D.S. Brown Co. Or An Approved Equal.

The Neoprene Joint Material Shall Be Machine Installed With Equipment Capable Of Placing The Strips At The Specified Depth Without Increasing Or Decreasing The Length As Taken From The Roll Or Box By More Than 5%. No Splices Will Be Permitted Across The Roadway. 6' Long Sections Are To Be Installed Vertical In The Curb Section Of The Roadway Pavement. The Seals Shall Be Secured In Place With An Approved Lubricant Adhesive Which Shall Cover Both Sides Of The Seal Over The Full Contact Area. The Seals And Installation Shall Not Be Paid For Directly, But Shall Be Subordinate To The Bid Item Of 8' Concrete Pavement.

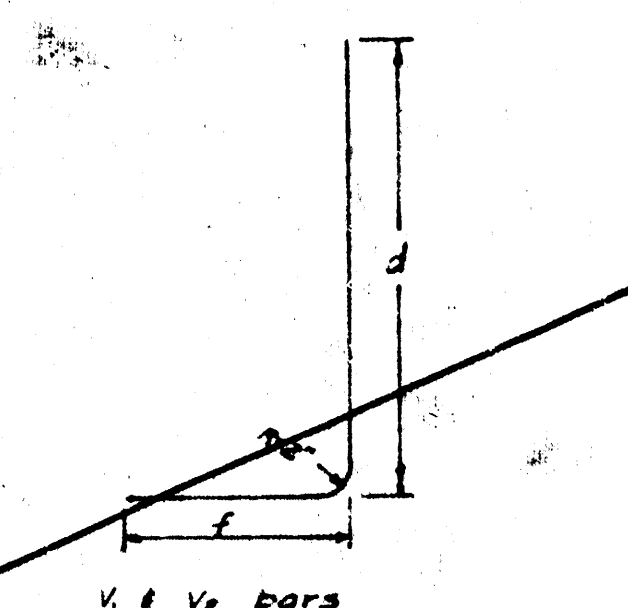
EXPANSION DEVICE DETAILS



CLASS	HEIGHT	WIDTH	WEIGHT
A	1'-0"	1'-0"	100
B	2'-0"	1'-0"	200
C	3'-0"	1'-0"	300

GRAVITY TYPE
(Concrete)

Construct Top Paper & Keyed Construction Joints @ 60' Intervals. Discontinue Reinf. Steel In L-Type Retaining Walls



TYPE A STEP DETAIL

CLASS	HEIGHT	WIDTH	WEIGHT
A	1'-0"	1'-0"	100
B	2'-0"	1'-0"	200
C	3'-0"	1'-0"	300

1/4" Bars Alternately @ 18" o.c.

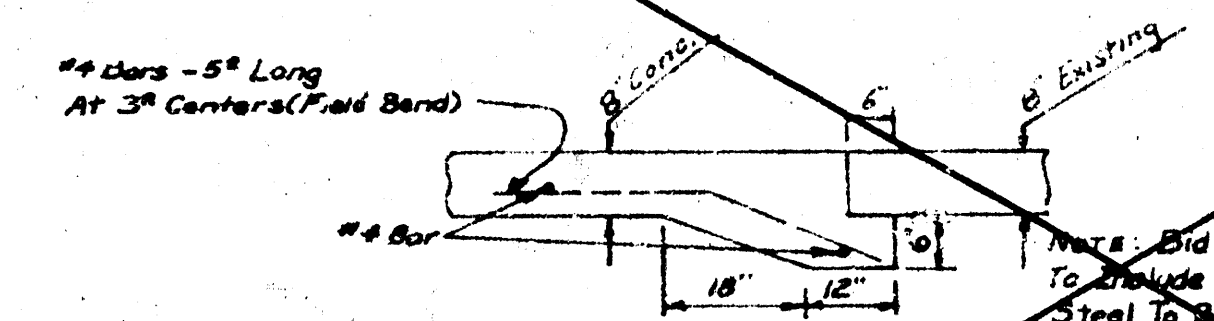
Expansion Joints @ 100' Maximum Spacing. 1' Preplaced Expan. Jt. Material. Discontinue Reinf. Steel.

L-TYPE RETAINING WALL FOR DRIVEWAYS

REINF. STEEL SCHEDULE									
L-TYPE RETAINING WALL FOR DRIVEWAYS									
CLASS	HEIGHT	WIDTH	WEIGHT	REMARKS					
A	1'-0"	1'-0"	100	L Shape					
B	2'-0"	1'-0"	200	L Shape					
C	3'-0"	1'-0"	300	L Shape					
D	4'-0"	1'-0"	400	L Shape					
E	5'-0"	1'-0"	500	L Shape					
F	6'-0"	1'-0"	600	L Shape					
G	7'-0"	1'-0"	700	L Shape					
H	8'-0"	1'-0"	800	L Shape					
I	9'-0"	1'-0"	900	L Shape					
J	10'-0"	1'-0"	1000	L Shape					
K	11'-0"	1'-0"	1100	L Shape					
L	12'-0"	1'-0"	1200	L Shape					
M	13'-0"	1'-0"	1300	L Shape					
N	14'-0"	1'-0"	1400	L Shape					
O	15'-0"	1'-0"	1500	L Shape					
P	16'-0"	1'-0"	1600	L Shape					
Q	17'-0"	1'-0"	1700	L Shape					
R	18'-0"	1'-0"	1800	L Shape					
S	19'-0"	1'-0"	1900	L Shape					
T	20'-0"	1'-0"	2000	L Shape					
U	21'-0"	1'-0"	2100	L Shape					
V	22'-0"	1'-0"	2200	L Shape					
W	23'-0"	1'-0"	2300	L Shape					
X	24'-0"	1'-0"	2400	L Shape					
Y	25'-0"	1'-0"	2500	L Shape					
Z	26'-0"	1'-0"	2600	L Shape					
AA	27'-0"	1'-0"	2700	L Shape					
AB	28'-0"	1'-0"	2800	L Shape					
AC	29'-0"	1'-0"	2900	L Shape					
AD	30'-0"	1'-0"	3000	L Shape					
AE	31'-0"	1'-0"	3100	L Shape					
AF	32'-0"	1'-0"	3200	L Shape					
AG	33'-0"	1'-0"	3300	L Shape					
AH	34'-0"	1'-0"	3400	L Shape					
AI	35'-0"	1'-0"	3500	L Shape					
AJ	36'-0"	1'-0"	3600	L Shape					
AK	37'-0"	1'-0"	3700	L Shape					
AL	38'-0"	1'-0"	3800	L Shape					
AM	39'-0"	1'-0"	3900	L Shape					
AN	40'-0"	1'-0"	4000	L Shape					
AO	41'-0"	1'-0"	4100	L Shape					
AP	42'-0"	1'-0"	4200	L Shape					
AQ	43'-0"	1'-0"	4300	L Shape					
AR	44'-0"	1'-0"	4400	L Shape					
AS	45'-0"	1'-0"	4500	L Shape					
AT	46'-0"	1'-0"	4600	L Shape					
AU	47'-0"	1'-0"	4700	L Shape					
AV	48'-0"	1'-0"	4800	L Shape					
AW	49'-0"	1'-0"	4900	L Shape					
AX	50'-0"	1'-0"	5000	L Shape					
AY	51'-0"	1'-0"	5100	L Shape					
AZ	52'-0"	1'-0"	5200	L Shape					
BA	53'-0"	1'-0"	5300	L Shape					
BB	54'-0"	1'-0"	5400	L Shape					
BC	55'-0"	1'-0"	5500	L Shape					
BD	56'-0"	1'-0"	5600	L Shape					
BE	57'-0"	1'-0"	5700	L Shape					
BF	58'-0"	1'-0"	5800	L Shape					
BG	59'-0"	1'-0"	5900	L Shape					
BH	60'-0"	1'-0"	6000	L Shape					
BI	61'-0"	1'-0"	6100	L Shape					
BJ	62'-0"	1'-0"	6200	L Shape					
BK	63'-0"	1'-0"	6300	L Shape					
BL	64'-0"	1'-0"	6400	L Shape					
BM	65'-0"	1'-0"	6500	L Shape					
BN	66'-0"	1'-0"	6600	L Shape					
BO	67'-0"	1'-0"	6700	L Shape					
BP	68'-0"	1'-0"	6800	L Shape					
BQ	69'-0"	1'-0"	6900	L Shape					
BR	70'-0"	1'-0"	7000	L Shape					
BS	71'-0"	1'-0"	7100	L Shape					
BT	72'-0"	1'-0"	7200	L Shape					
BU	73'-0"	1'-0"	7300	L Shape					
BV	74'-0"	1'-0"	7400	L Shape					
BW	75'-0"	1'-0"	7500	L Shape					
BX	76'-0"	1'-0"	7600	L Shape					
BY	77'-0"	1'-0"	7700	L Shape					
BZ	78'-0"	1'-0"	7800	L Shape					
CA	79'-0"	1'-0"	7900	L Shape					
CB	80'-0"	1'-0"	8000	L Shape					
CC	81'-0"	1'-0"	8100	L Shape					
CD	82'-0"	1'-0"	8200	L Shape					
CE	83'-0"	1'-0"	8300	L Shape					
CF	84'-0"	1'-0"	8400	L Shape					
CG	85'-0"	1'-0"	8500	L Shape					
CH	86'-0"	1'-0"	8600	L Shape					
CI	87'-0"	1'-0"	8700	L Shape					
CJ	88'-0"	1'-0"	8800	L Shape					
CK	89'-0"	1'-0"	8900	L Shape					
CL	90'-0"	1'-0"	9000	L Shape					
CM	91'-0"	1'-0"	9100	L Shape					
CN	92'-0"	1'-0"	9200	L Shape					
CO	93'-0"	1'-0"	9300	L Shape					
CP	94'-0"	1'-0"	9400	L Shape					
CQ	95'-0"	1'-0"	9500	L Shape					
CR	96'-0"	1'-0"	9600	L Shape					
CS	97'-0"	1'-0"	9700	L Shape					
CT	98'-0"	1'-0"	9800	L Shape					
CU	99'-0"	1'-0"	9900	L Shape					
CV	100'-0"	1'-0"	10000	L Shape					
CA	101'-0"	1'-0"	10100	L Shape					
CB	102'-0"	1'-0"	10200	L Shape					
CC	103'-0"	1'-0"	10300	L Shape					
CD	104'-0"	1'-0"	10400	L Shape					
CE	105'-0"	1'-0"	10500	L Shape					
CF	106'-0"	1'-0"	10600	L Shape					
CG	107'-0"	1'-0"	10700	L Shape					
CH	108'-0"	1'-0"	10800	L Shape					
CI	109'-0"	1'-0"	10900	L Shape					
CJ	110'-0"	1'-0"	11000	L Shape					
CK	111'-0"	1'-0"	11100	L Shape					
CL	112'-0"	1'-0"	11200	L Shape					
CM	113'-0"	1'-0"	11300	L Shape					
CN	114'-0"	1'-0"	11400	L Shape					
CO	115'-0"	1'-0"	11500	L Shape					
CP	116'-0"	1'-0"	11600	L Shape					
CQ	117'-0"	1'-0"	11700	L Shape					
CR	118'-0"	1'-0"	11800	L Shape					
CS	119'-0"	1'-0"	11900	L Shape					
CT	120'-0"	1'-0"	12000	L Shape					
CU	121'-0"	1'-0"	12100	L Shape					
CV	122'-0"	1'-0"	12200	L Shape					
CW	123'-0"	1'-0"	12300	L Shape					
CX	124'-0"	1'-0"	12400	L Shape					
CY	125'-0"	1'-0"	12500	L Shape					
CZ	126'-0"	1'-0"	12600	L Shape					
DA	127'-0"	1'-0"	12700	L Shape					
DB	128'-0"	1'-0"	12800	L Shape					
DC	129'-0"	1'-0"	12900	L Shape					
DD	130'-0"	1'-0"	13000	L Shape					
DE	131'-0"	1'-0"	13100	L Shape					
DF	132'-0"	1'-0"	13200	L Shape					
DG	133'-0"	1'-0"	13300	L Shape					
DH	134'-0"	1'-0"	13400	L Shape					
DI	135'-0"	1'-0"	13500	L Shape					
DJ	136'-0"	1'-0"	13600	L Shape					
DK	137'-0"	1'-0"	13700	L Shape					
DL	138'-0"	1'-0"	13800	L Shape					
DM	139'-0"	1'-0"	13900	L Shape					
DN	140'-0"	1'-0"	14000	L Shape					
DO	141'-0"	1'-0"	14100	L Shape					
DP	142'-0"	1'-0"	14200	L Shape					
DQ	143'-0"	1'-0"	14300	L Shape					
DR	144'-0"	1'-0"	14400	L Shape					
DS	145'-0"	1'-0"	14500	L Shape					
DT	146'-0"	1'-0"	14600	L Shape					
DU	147'-0"	1'-0"	14700	L Shape					
DV	148'-0"	1'-0"	14800	L Shape					
DW	149'-0"	1'-0"	14900	L Shape					
DX	150'-0"	1'-0"	15000	L Shape					
DY	151'-0"	1'-0"	15100	L Shape					
DZ	152'-0"	1'-0"	15200	L Shape					
EA	153'-0"	1'-0"	15300	L Shape					
EB	154'-0"	1'-0"	15400	L Shape					
EC	155'-0"	1'-0"	15500	L Shape					
ED	156'-0"	1'-0"	15600	L Shape					
EE	157'-0"	1'-0"	15700	L Shape					
EF	158'-0"	1'-0"	15800	L Shape					
EG	159'-0"	1'-0"	15900	L Shape					
EH	160'-0"	1'-0"	16000	L Shape					
EI	161'-0"	1'-0"	16100	L Shape					
EJ	162'-0"	1'-0"	16200	L Shape					
EK	163'-0"	1'-0"	16300	L Shape					
EL	164'-0"	1'-0"	16400	L Shape					
EM	165'-0"	1'-0"	16500	L Shape					
EN	166'-0"	1'-0"	16600	L Shape					
EO	167'-0"	1'-0"	16700	L Shape					
EP	168'-0"	1'-0"	16800	L Shape					
EQ	169'-0"	1'-0"	16900	L Shape					
ER	170'-0"	1'-0"	17000	L Shape					
ES	171'-0"	1'-0"	17100	L Shape					
ET	172'-0"	1'-0"	17200	L Shape					
EU	173'-0"	1'-0"	17300	L Shape					
EV	174'-0"	1'-0"	17400	L Shape					
EW	175'-0"	1'-0"	17500	L Shape					
EX	176'-0"	1'-0"	17600	L Shape					
EY	177'-0"	1'-0"	17700	L Shape					
EZ	178'-0"	1'-0"	17800	L Shape					
FA	179'-0"	1'-0"	17900	L Shape					
FB	180'-0"	1'-0"	18000	L Shape					
FC	181'-0"	1'-0"	18100	L Shape					
FD	182'-0"	1'-0"	18200	L Shape					
FE	183'-0"	1'-0"	18300	L Shape					
FF	184'-0"	1'-0"	18400	L Shape					
FG	185'-0"	1'-0"	18500	L Shape					
FH	186'-0"	1'-0"	18600	L Shape					
FI	187'-0"	1'-0"	18700	L Shape					
FJ	188'-0"	1'-0"	18800	L Shape					
FK	189'-0"	1'-0"	18900	L Shape					
FL	190'-0"	1'-0"	19000	L Shape					
FM	191'-0"	1'-0"	19100	L Shape					
FN	192'-0"	1'-0"	19200	L Shape					
FO	193'-0"	1'-0"	19300	L Shape					
FP	194'-0"	1'-0"	19400	L Shape					
FO	195'-0"	1'-0"	19500	L Shape					
FP	196'-0"	1'-0"	19600	L Shape					
FO	197'-0"	1'-0"	19700	L Shape					
FP	198'-0"	1'-0"	19800	L Shape					
FO	199'-0"	1'-0"	19900	L Shape					
FP	200'-0"	1'-0"	20000	L Shape					
GA	201'-0"	1'-0"	20100	L Shape					
GB	202'-0"	1'-0"	20200	L Shape					
GC	203'-0"	1'-0"	20300	L Shape					
GD	204'-0"	1'-0"	20400	L Shape					
GE	205'-0"	1'-0"	20500	L Shape					
GF	206'-0"	1'-0"	20600	L Shape					
GG	207'-0"	1'-0"	20700	L Shape					
GH	208'-0"	1'-0"	20800	L Shape					
GI	209'-0"	1'-0"	20900	L Shape					
GJ	210'-0"	1'-0"	21000	L Shape					
GK	211'-0"	1'-0"	21100	L Shape					
GL	212'-0"	1'-0"	21200	L Shape					
GM	213'-0"	1'-0"	21300	L Shape					
GN	214'-0"	1'-0"	21400	L Shape					
GO	215'-0"	1'-0"	21500	L Shape					
GP	216'-0"	1'-0"	21600	L Shape					
GO	217'-0"	1'-0"	21700	L Shape					
GP	218'-0"	1'-0"	21800	L Shape					
GO	219'-0"	1'-0"	21900	L Shape					
GP	220'-0"	1'-0"	22000	L Shape					
HA	221'-0"	1'-0"	22100	L Shape					
HB	222'-0"	1'-0"	22200	L Shape					
HC	223'-0"	1'-0"	22300	L Shape					
HD	224'-0"	1'-0"	22400	L Shape					
HE	225'-0"	1'-0"	22500	L Shape					
HF	226'-0"	1'-0"	22600	L Shape					
HG	227'-0"	1'-0"	22700	L Shape					
HH	228'-0"	1'-0"	22800	L Shape					
HI	229'-0"	1'-0"	22900	L Shape					
HJ	230'-0"	1'-0"	23000	L Shape					
HK	231'-0"	1'-0"	23100	L Shape					
HL	232'-0"	1'-0"	23200	L Shape					
HM	233'-0"	1'-0"	23300	L Shape					
HN	234'-0"	1'-0"	23400	L Shape					
HO	235'-0"	1'-0"	23500	L Shape					
HP	236'-0"	1'-0"	23600	L Shape					
HO	237'-0"	1'-0"	23700	L Shape					
HP	238'-0"	1'-0"	23800	L Shape					
HO	239'-0"	1'-0"	23900	L Shape					
HP	240'-0"	1'-0"	24000	L Shape					
IA	241'-0"	1'-0"	24100						

NOTE: All excavation for retaining walls shall be included in the bid price per Lin. Ft. of retaining wall. The 4' file washpans & crushed rock or coarse gravel for drainage, shall be included in the bid price per Lin. Ft. of retaining wall.

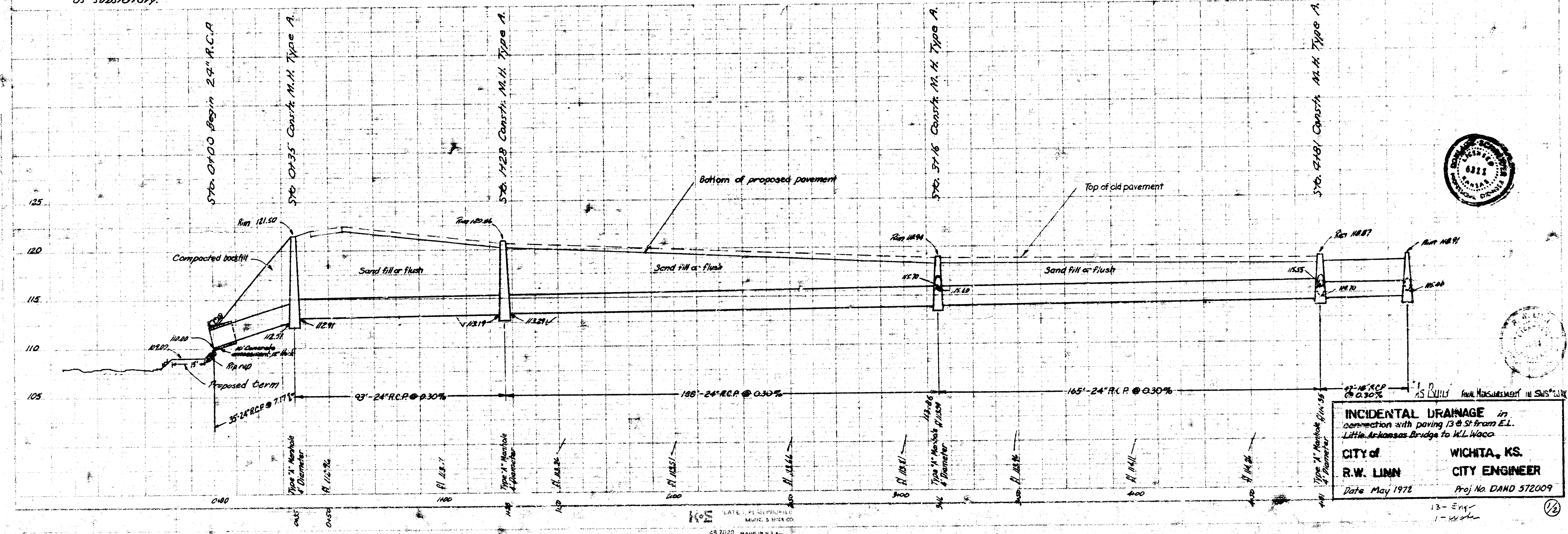
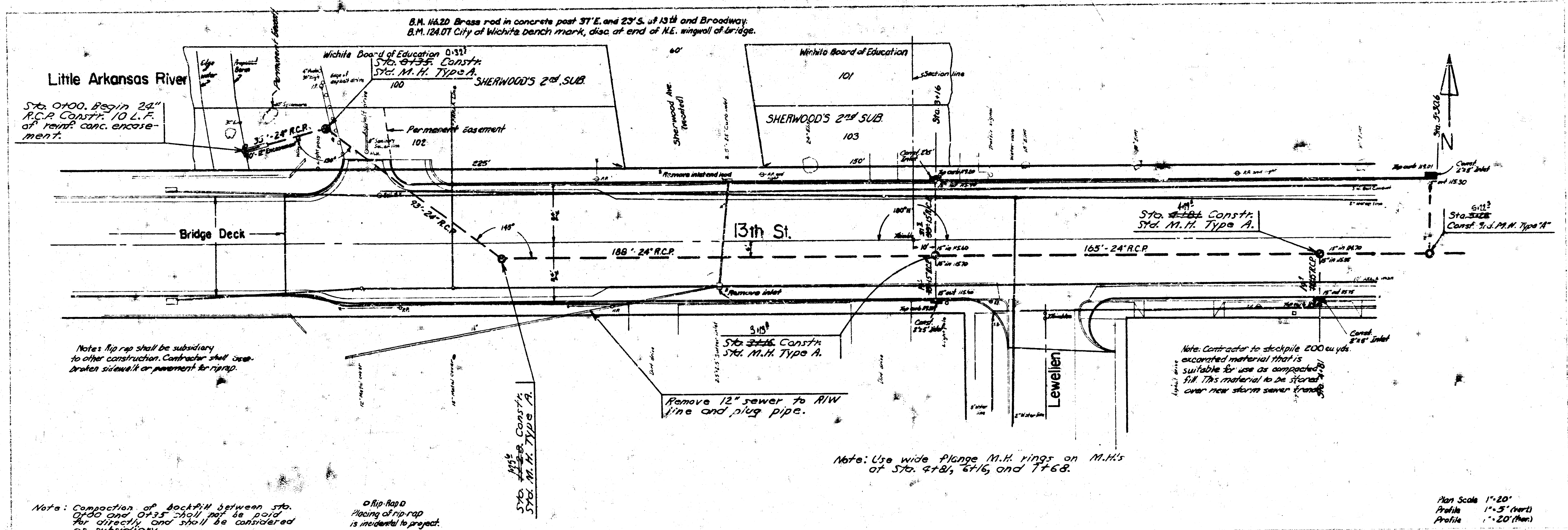
Note: The Field Engineer shall final measure retaining walls prior to backfill operations



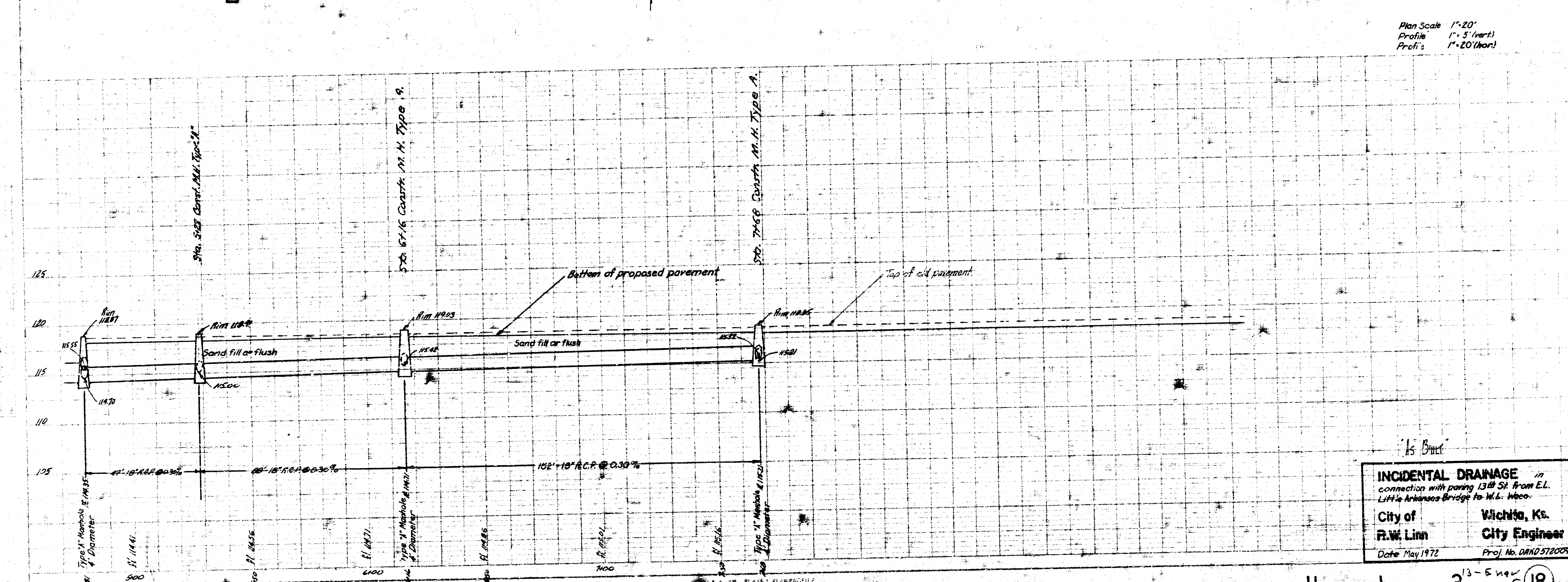
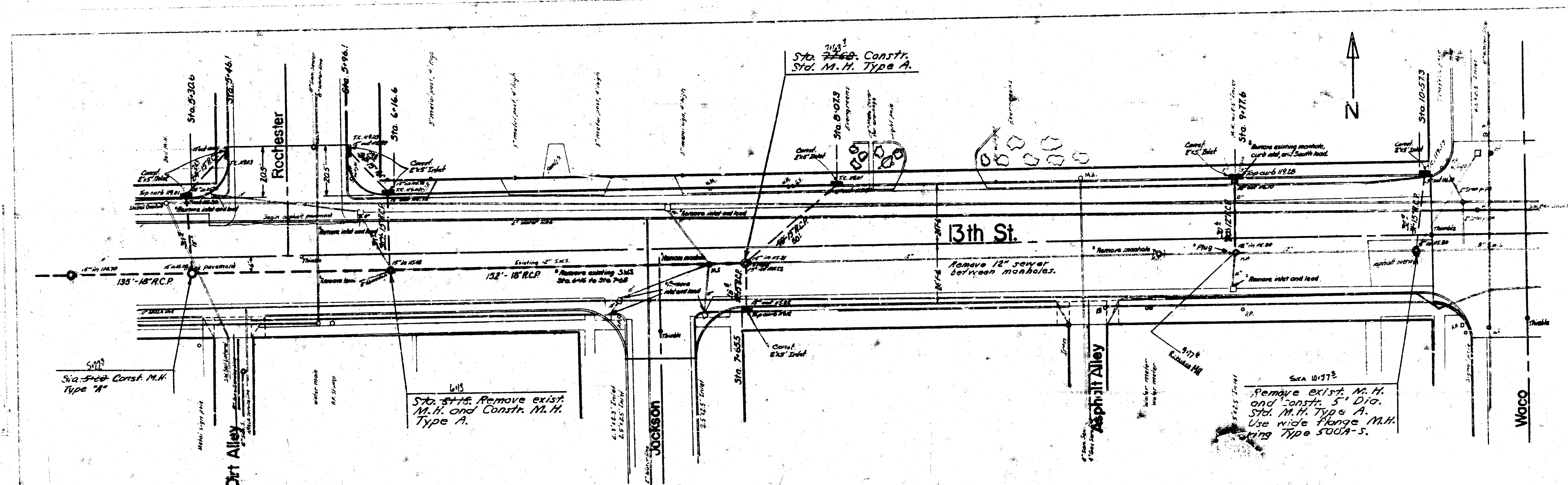
"UNDER-PINNING
DETAIL"

Note: Bid Item For "L.F. Under-Pinning To Bridge Cast Of Concrete & Excavation. Steel To Be Paid As Lbs. Of Reinf. Steel.

Surveyed by: [illegible]
 Date: [illegible]
 Checked: [illegible]



Survey Data
 Plan
 Date
 Scale



Plan Scale 1"=20'
 Profile 1"=5' (vert)
 Profile 1"=20' (horiz)

INCIDENTAL DRAINAGE
 connection with paving 13th St. from E.L.
 L.H. Arkansas Bridge to Waco.
 City of **Wichita, Ks.**
R.W. Linn City Engineer
 Date May 1972 Proj. No. DND 578009