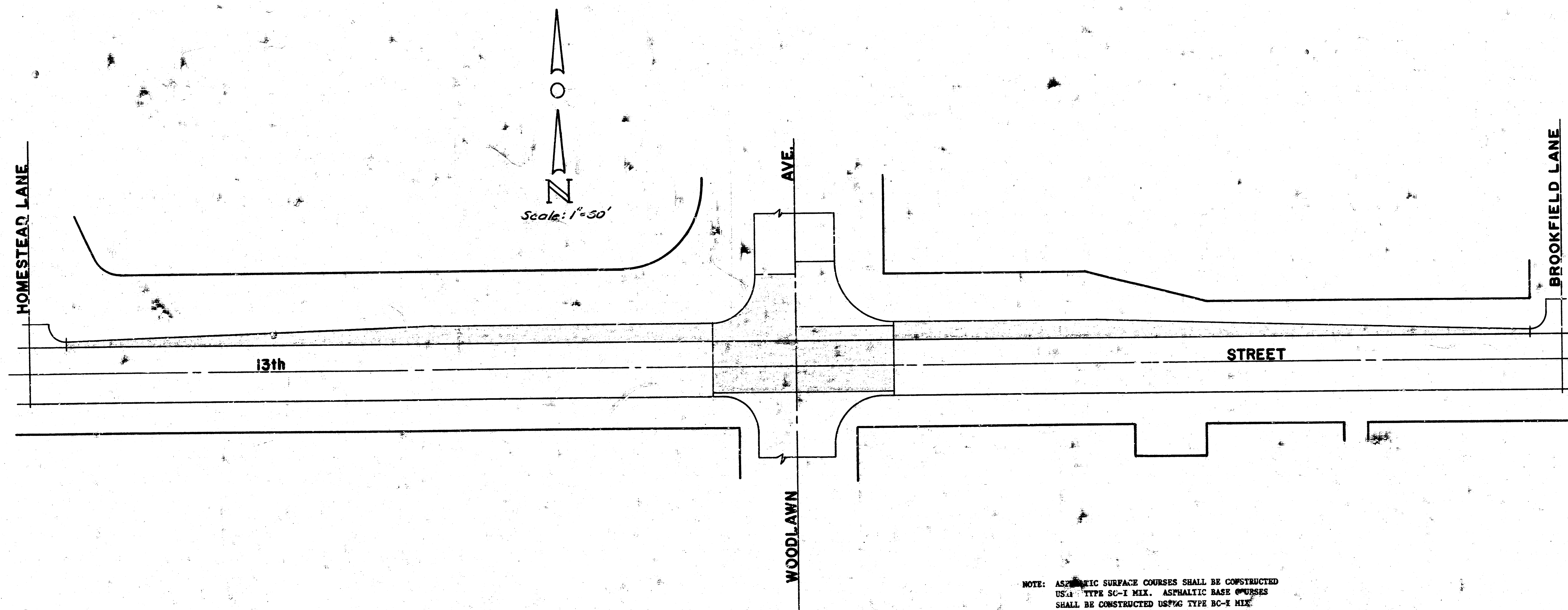


13th STREET
E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE
CITY OF WICHITA, KANSAS

R.W. BRUGGEMAN DIRECTOR OF ENGINEERING / CITY ENGINEER

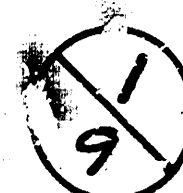
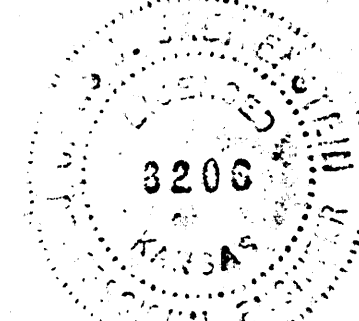
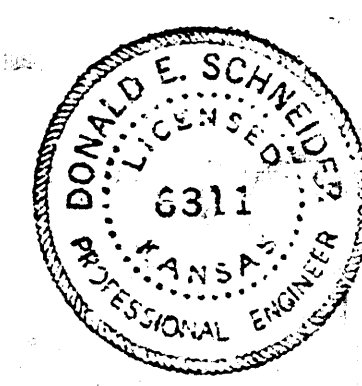
DATE:

PROJ. NO. 472 76 245 81218 000 000 001



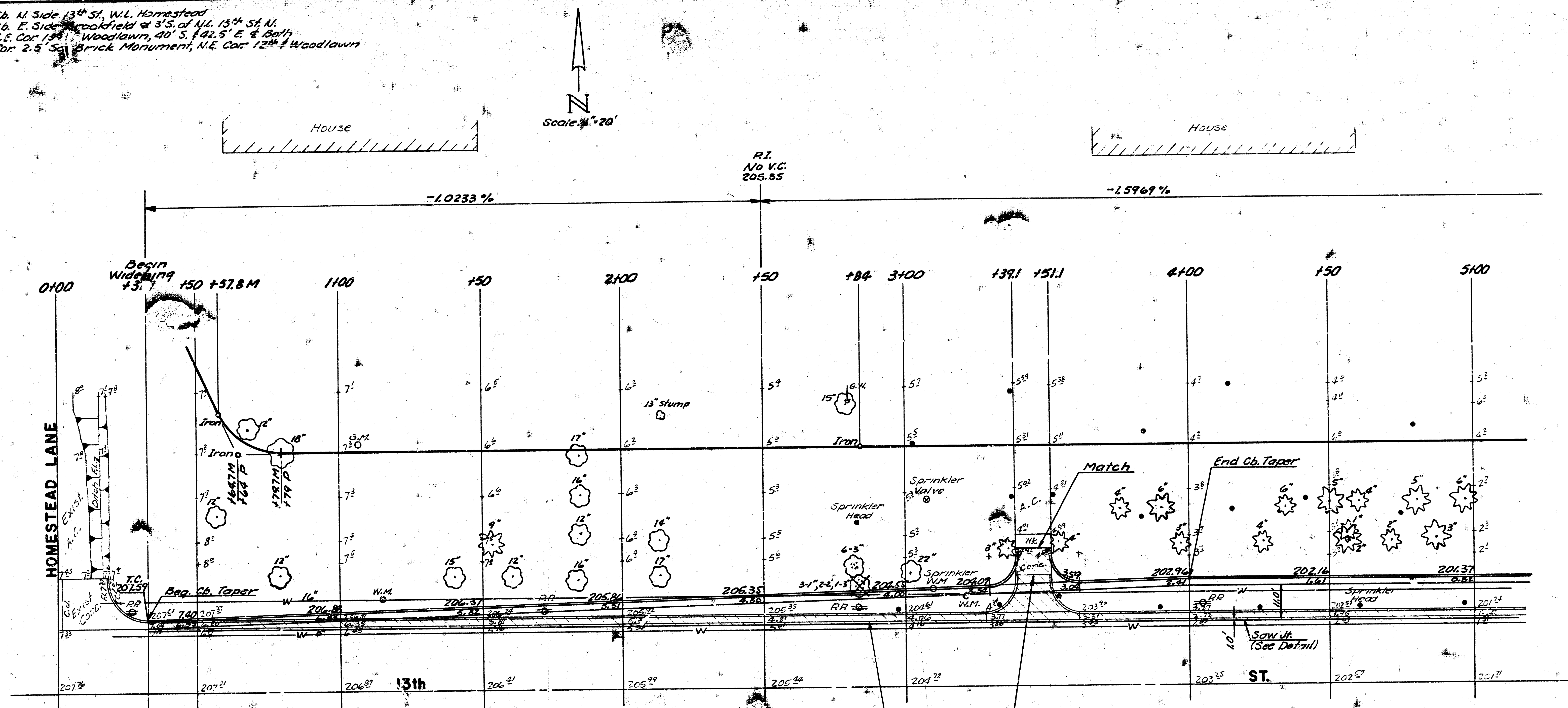
NOTE: TRAFFIC ON 13TH STREET AND ON WOODLAWN AVENUE SHALL BE CARRIED THROUGH CONSTRUCTION WITH AT LEAST ONE LANE FOR EACH DIRECTION OF TRAVEL.

NOTE: ASPHALTIC SURFACE COURSES SHALL BE CONSTRUCTED USING TYPE SC-1 MIX. ASPHALTIC BASE COURSES SHALL BE CONSTRUCTED USING TYPE BC-1 MIX.



PROJECT DESCRIPTION	
13th STREET E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE	
PROJECT NUMBER 472 76 245 81218 000 000 001	
BOOK NO. 582 76	APPROVED BY
DRAWN BY 215	DATE
CITY OF WICHITA DEPARTMENT OF ENGINEERING	
DIRECTOR OF ENG./CITY ENGINEER R. W. BRUGGEMAN	SCALE

B.M. 208.02 Top of Ch. N. Side 13th St. W.L. Homestead
 B.M. 195.76 Top of Ch. E. Side Brookfield at S.E. of N.W. 13th St. N.
 B.M. 199.40 City Sid. S.E. Cor. 13th Woodlawn, 40' S. 142.5' E. 8' 80th
 B.M. 201.74 Top S.W. Cor. 2.3' S. Brick Monument, N.E. Cor. 12th Woodlawn



Note: Ch. taper = .0298 Ft./ft.

Remove Ch. 1/4 Gr.
Match exist. P.V.

Const. Entrance drive
to new elevations

Note: When reinf. steel is installed
in driveways it shall be WWF 6x6-9/4,
58 #/100 ft.

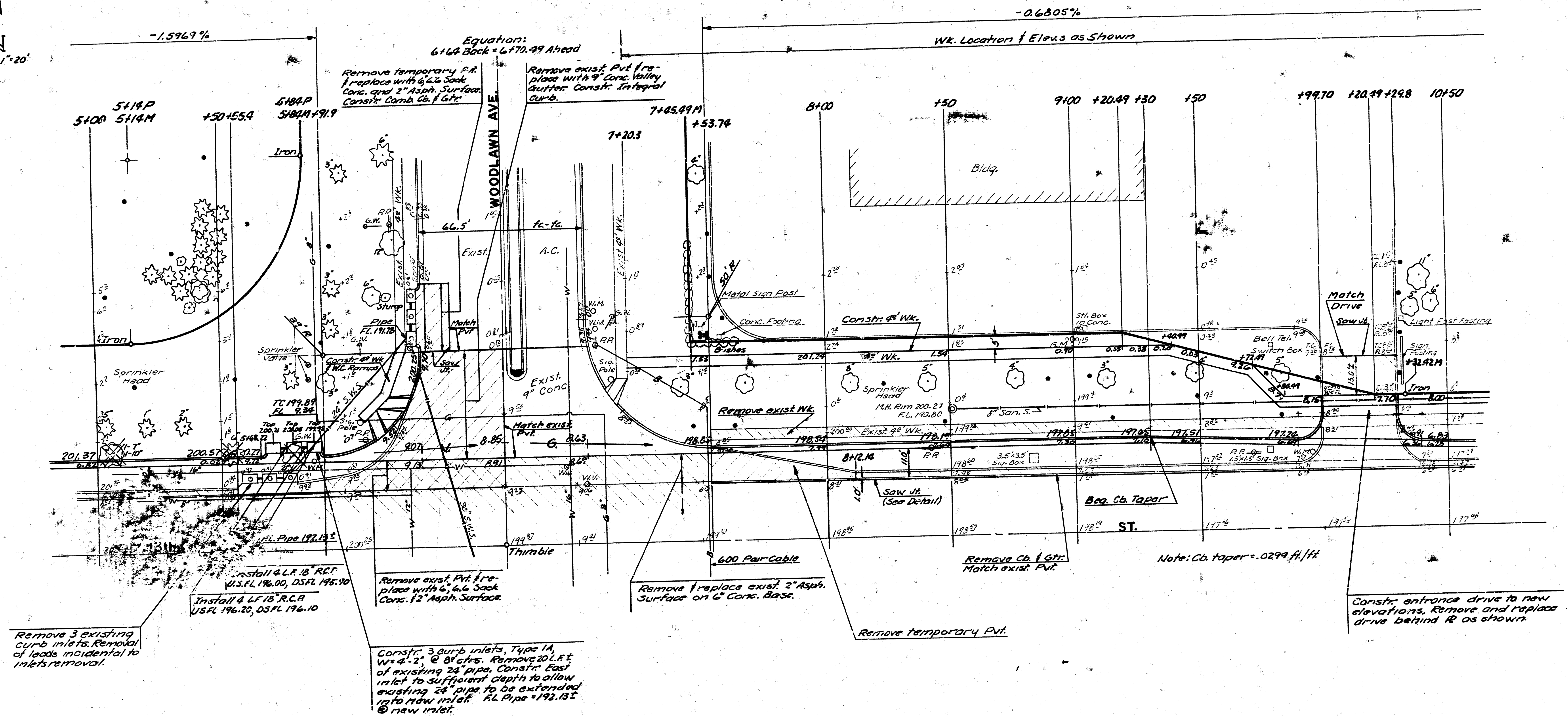
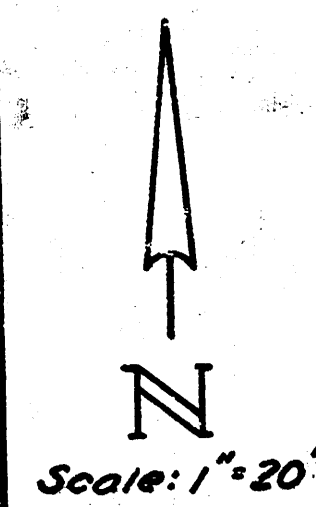
NOTE: PROPERTIES WITHIN THE PROJECT LIMITS WHICH HAVE UNDERGROUND
SPRINKLER SYSTEMS ON PUBLIC RIGHT OF WAY WHICH CONFLICT WITH NEW
CONSTRUCTION HAVE BEEN NOTIFIED TO REMOVE SUCH IMPROVEMENTS.
CONTRACTOR WILL BE REQUIRED TO REMOVE SUCH IMPROVEMENTS SHOULD
THEY NOT BE REMOVED BY THEIR OWNER AT THE TIME OF CONSTRUCTION.
THE CONTRACTOR WILL BE REQUIRED TO SALVAGE ALL SPRINKLER HEADS
AND/OR VALVES AND GIVE SUCH MATERIAL TO THEIR OWNER. PORTIONS
OF UNDERGROUND SPRINKLER SYSTEMS NOT IN CONFLICT WITH NEW
CONSTRUCTION SHALL BE PROTECTED FROM DAMAGE AND SHALL REMAIN IN
PLACE. ALL WORK IN CONNECTION WITH UNDERGROUND SPRINKLER
SYSTEMS SHALL BE CONSIDERED AS SUBSIDIARY TO THE CONTRACT PAY
ITEMS OF WORK.

Total Earthwork
Excavation
601.5 C.Y.
+10% 60.2
Total 661.7 C.Y.

Note: Trees to be removed are marked thus . Except
that any tree marked for removal, which in the opinion
of the Engineer can be saved, shall be spared.

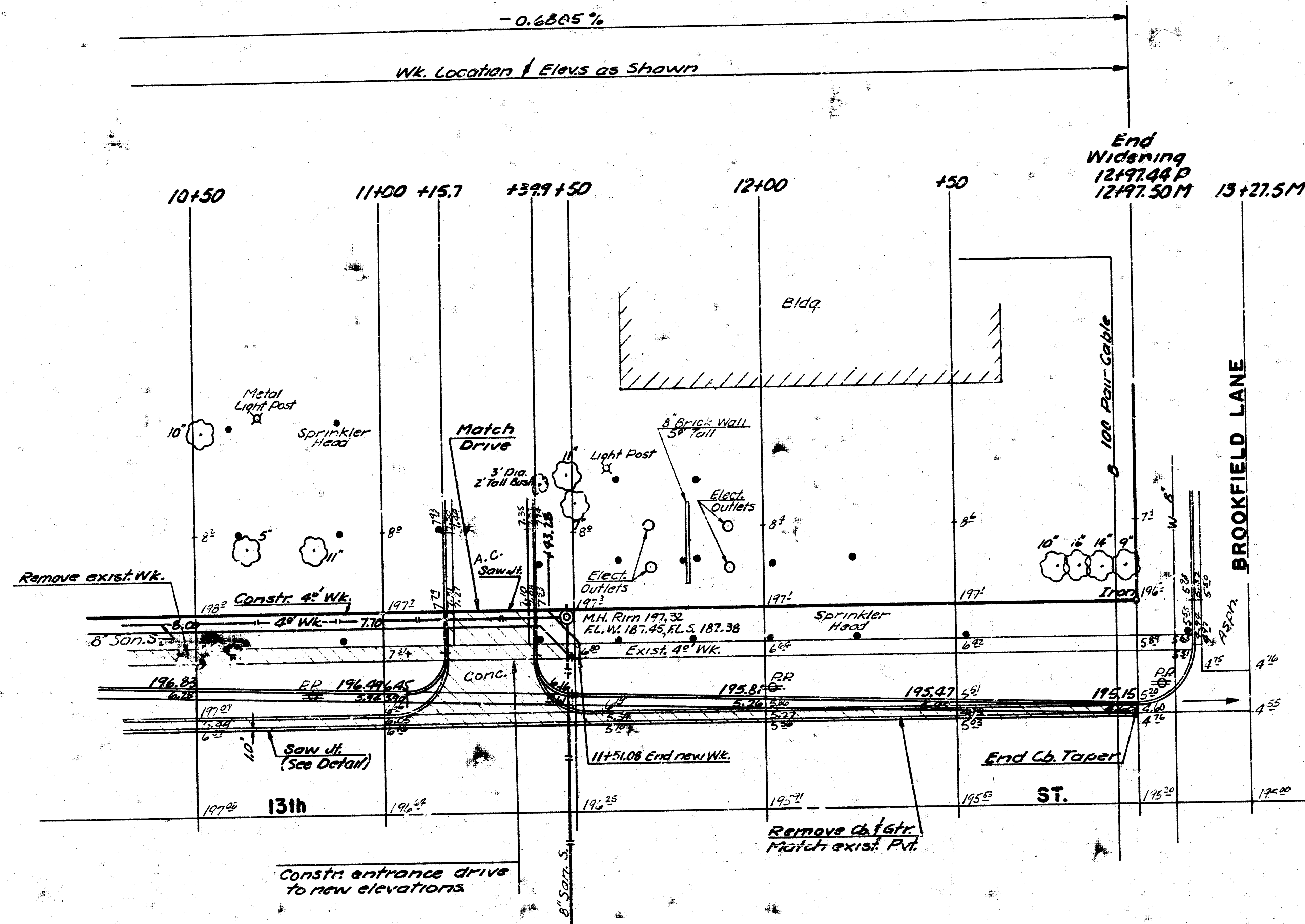
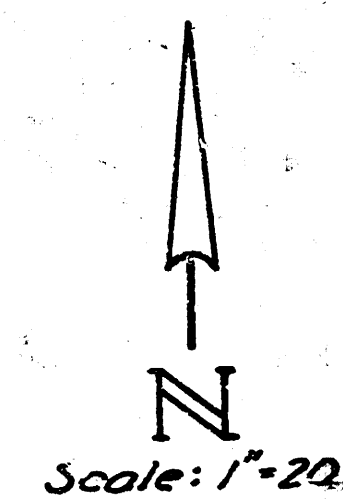
PROJECT DESCRIPTION
 13th STREET
 E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE
 PROJECT NUMBER
 472 76 245 81218 000 000 001

2
9

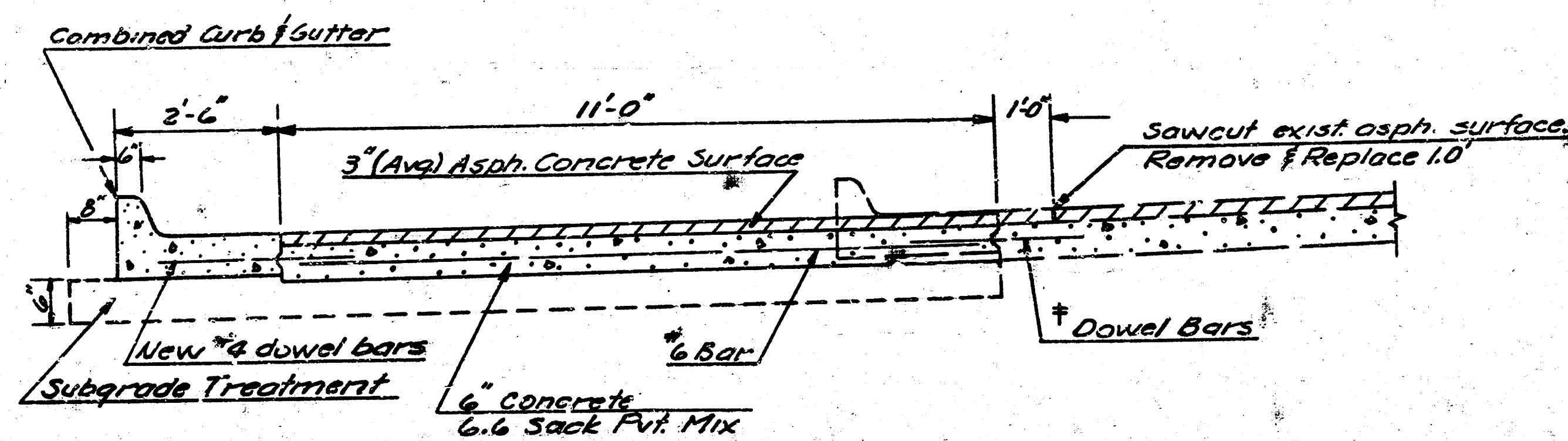


3/9

PROJECT DESCRIPTION	
13th STREET	
E. L. HOMESTEAD LANE TO W. L. BROOKFIELD LANE	
PROJECT NUMBER	
472 76 245 61218 000 000 001	3/9

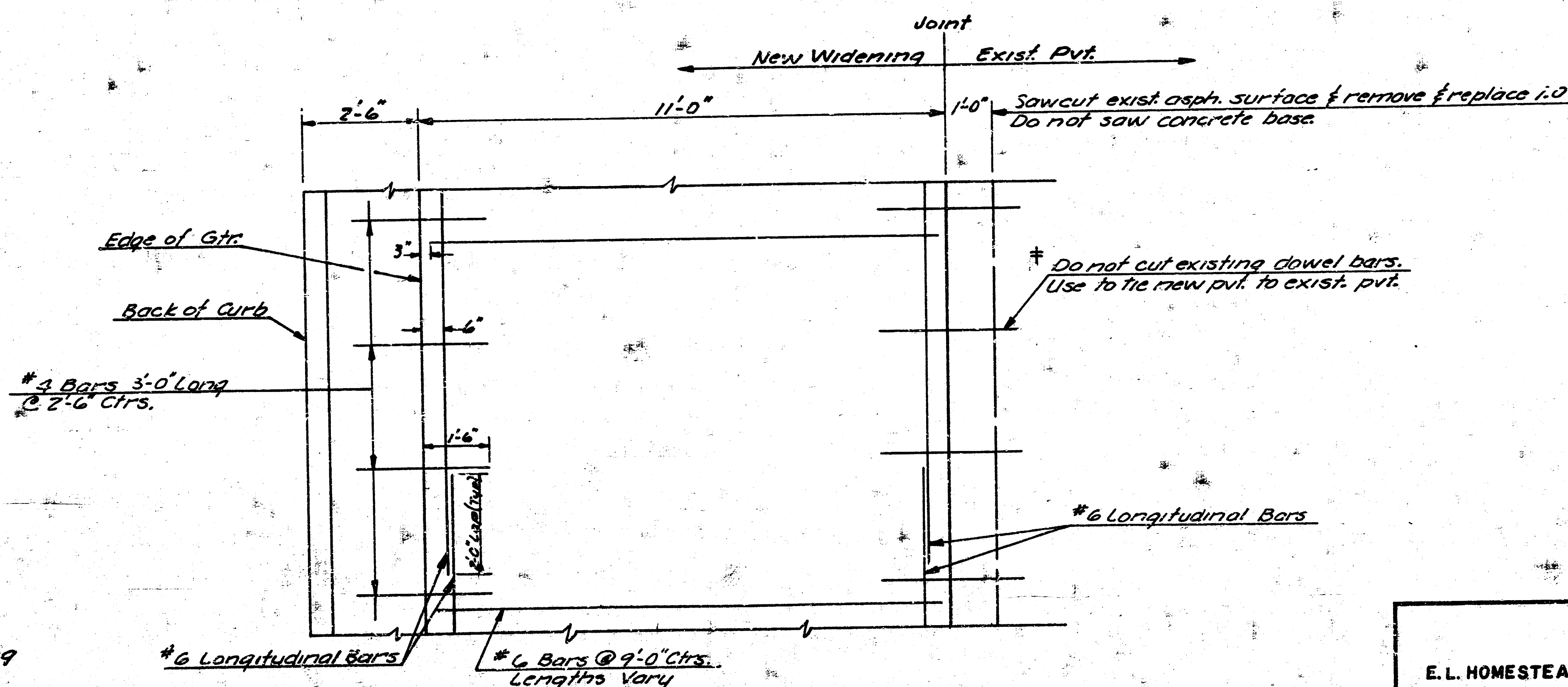


† Note: For exist. reinf. steel to be used it must be at least 20' long and clean of concrete debris. Any missing bars must be replaced with 3.0 ft long bars drilled and grouted in place.



TYPICAL WIDENING SECTION

Note: Reinf. Steel & Dowel Bars subsidiary to Concrete Widening

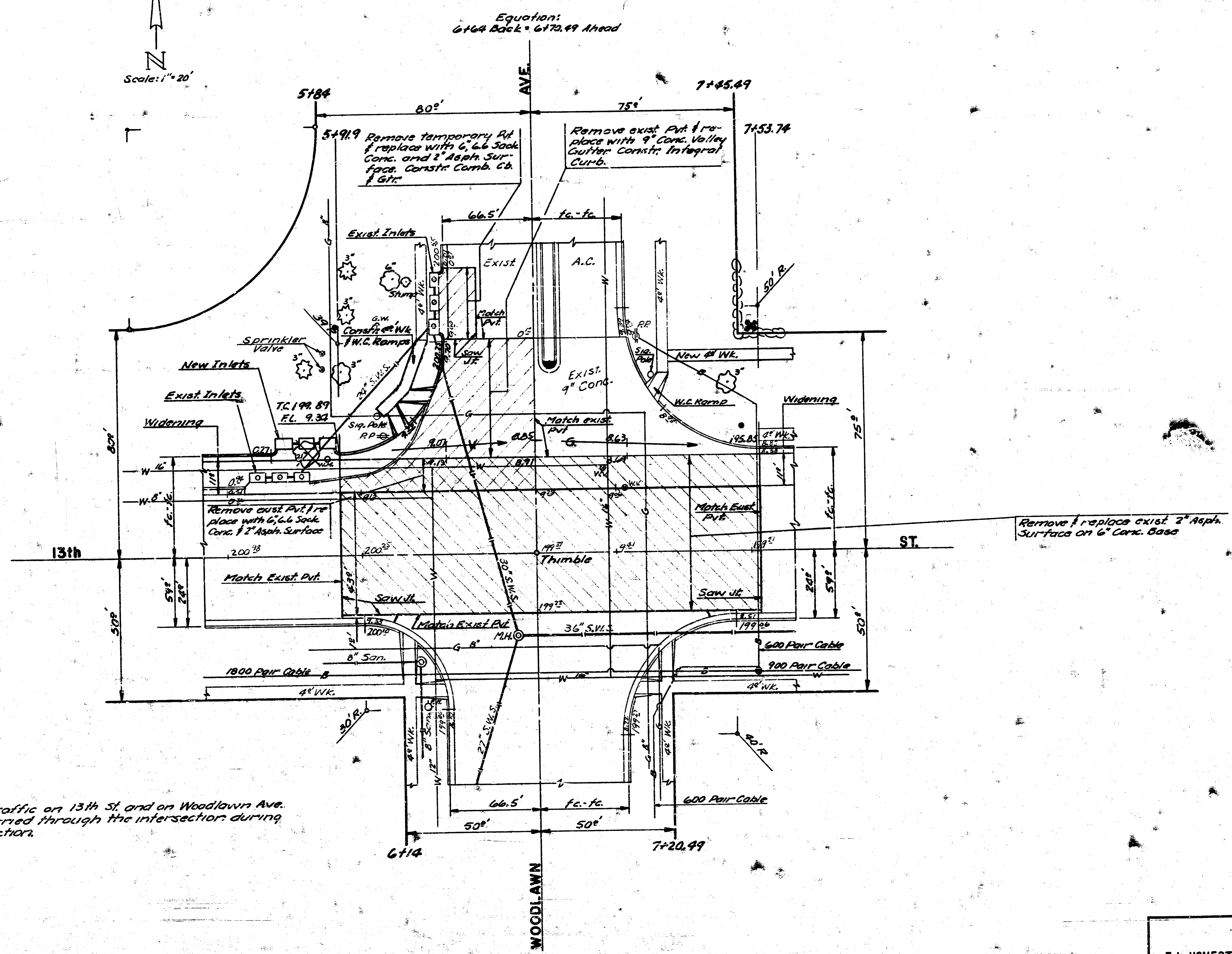


STEEL & JOINT PATTERN

PROJECT DESCRIPTION	
13th STREET	
E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE	
PROJECT NUMBER	
472 76 245 81218 000 000 001	

B.M. 208.02 Top of Ch. N. Side 13th St. W.L. Homestead
 B.M. 195.76 Top of Ch. E. Side Brookfield 3' S. of N.L. 13th St. N.
 B.M. 199.40 City Sid. S.E. Cor. 13th & Woodlawn, 40' S. & 42.5' E. of Bath
 B.M. 204.74 Top S.W. Cor. 25' Sq. Brick Monument, N.E. Cor. 12th & Woodlawn

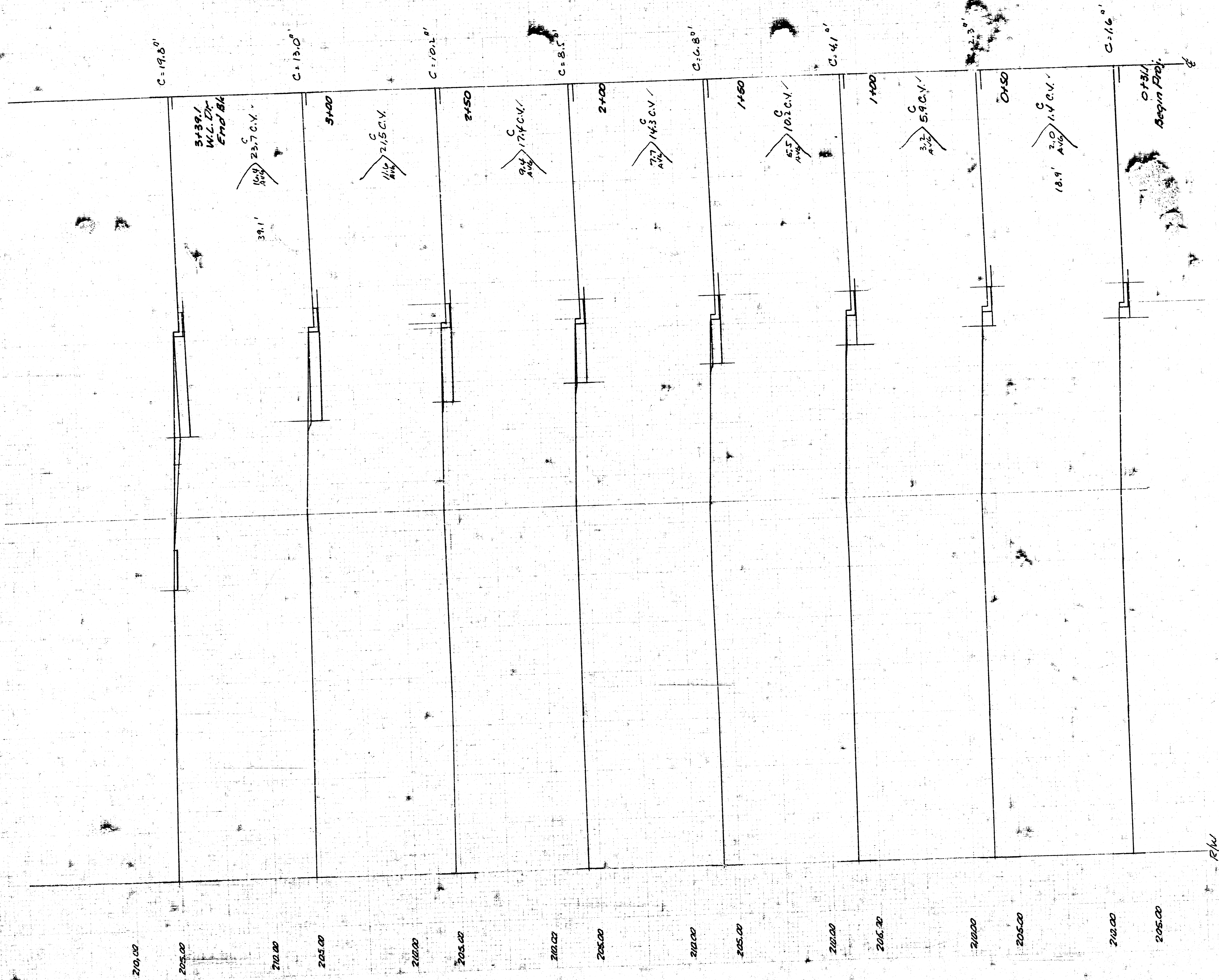
Scale: 1" = 20'



NOTE: Traffic on 13th St and on Woodlawn Ave. to be carried through the intersection during construction.

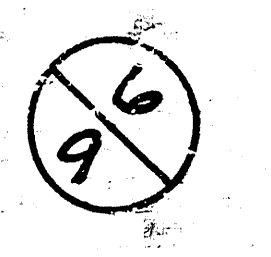
PROJECT DESCRIPTION	
13th STREET S.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE	
PROJECT NUMBER 472 75 245 81218 000 000 001	
BOOK NO. S.R. 78	APPROVED BY: DATE
DRAWN BY G.B.C.	REVIS
CITY OF WICHITA DEPARTMENT OF ENGINEERING	
DIRECTOR OF ENG. OR ENGINEER H. W. BRIDGEMAN	SCALE

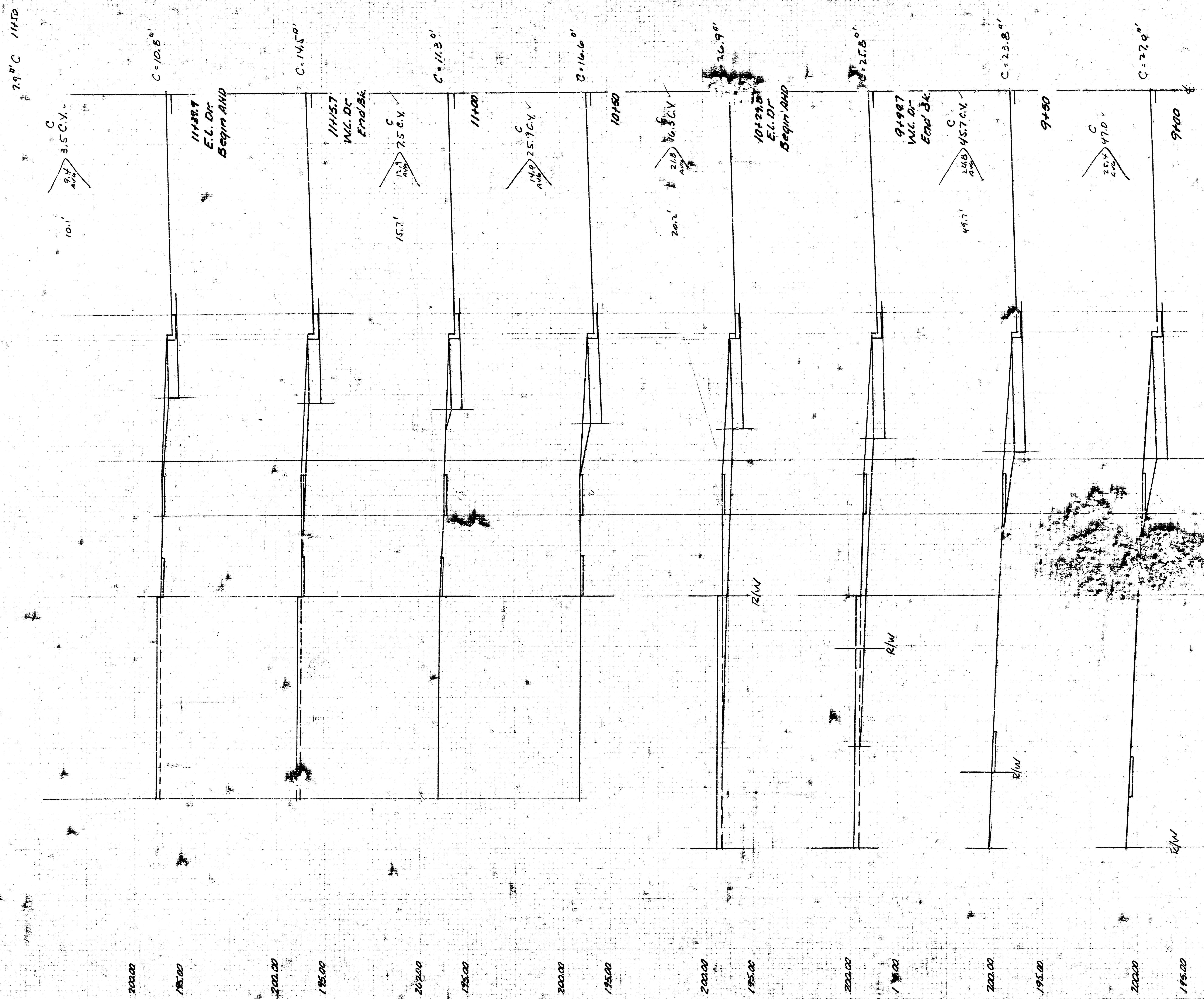
5/9



EARTHWORK - THIS SHEET
 EXCAV 94.4 C.V.
 EARTHWORK - Σ ALL SHEETS
 EXCAV 601.5 C.V.

13th STREET
 E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE
 PROJ. NO. 472 76 245 81218 000 000 001

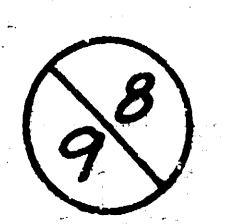


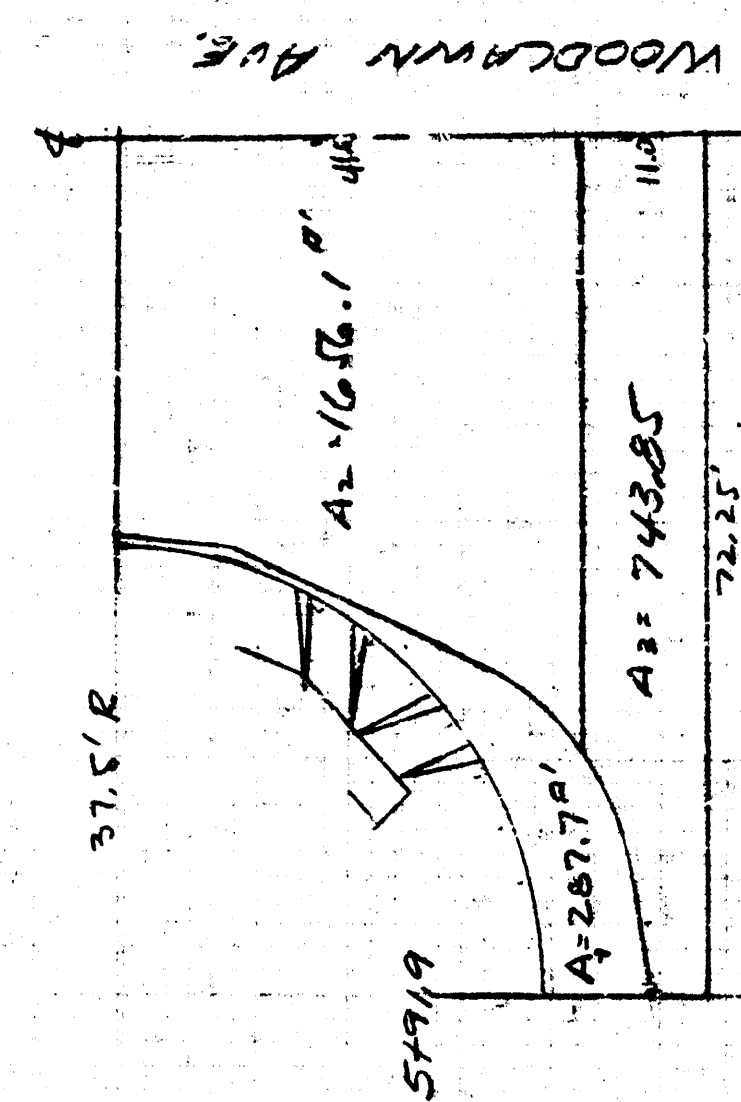


EARTHWORK - THIS SHEET
EXCAV.
145.9 C.V.

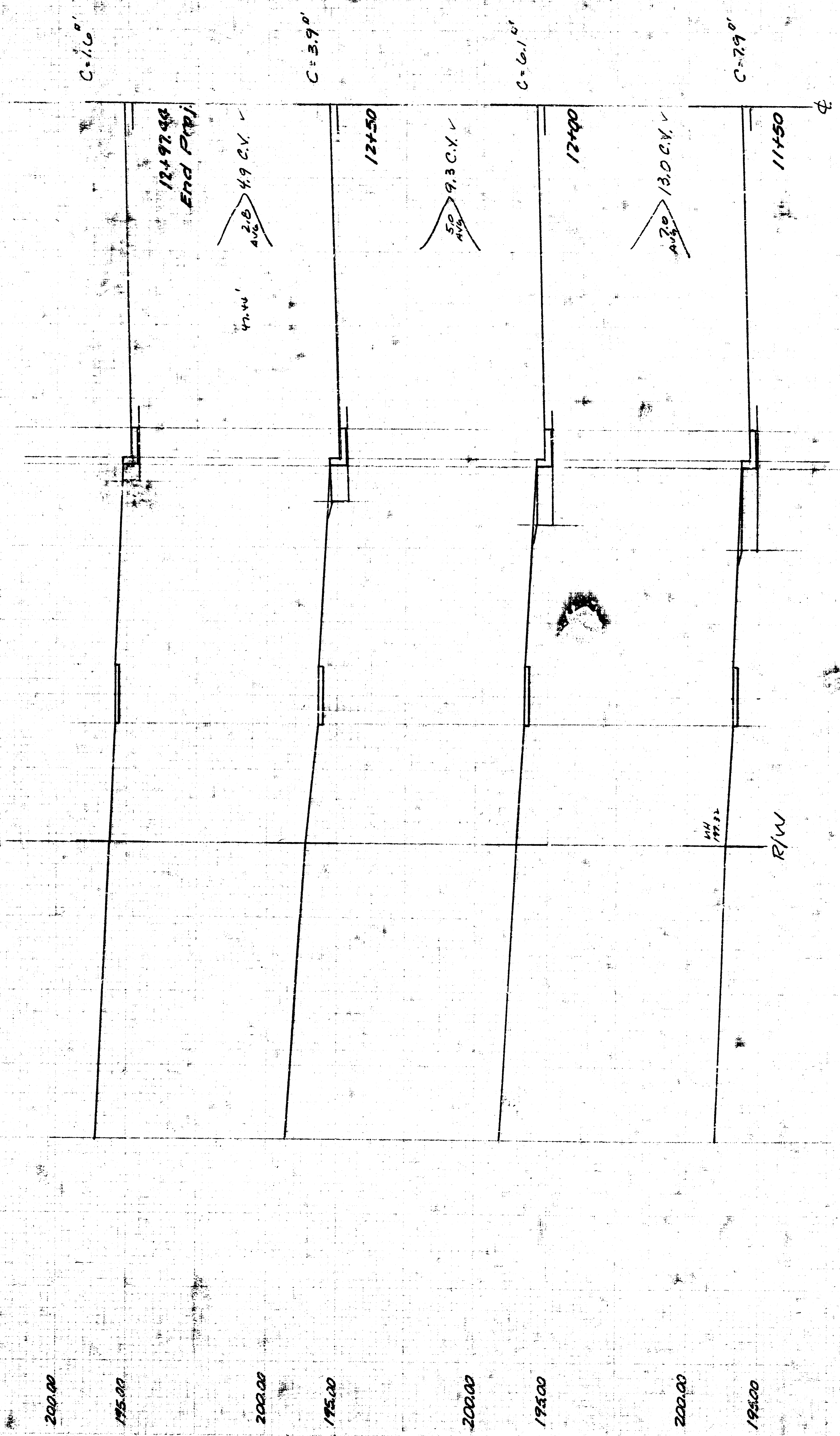
5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

13th STREET
E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE
PROJ. NO. 472 76 245 81213 000 000 001





$Vol. A_1 = 155 \times 20.7 = 10.5 \text{ C.Y. C}$
 $Vol. A_2 = 178.0 - 198.82 (\frac{1056.1}{2}) = 11.7 \text{ C.Y. C}$
 $Vol. A_3 = 192.0 - 192.0 (\frac{1056.1}{2}) = 2.3 \text{ C.Y. C}$



10 15 20 25 30 35 40 45 50 55 60 65 70
 175.00 175.00 200.00 175.00 200.00 175.00 200.00 175.00
 R/W

EARTHWORK - THIS SHEET
 EXCAV 63.7 C.Y.

13th STREET
 E.L. HOMESTEAD LANE TO W.L. BROOKFIELD LANE
 PROJ. NO. 472 76 245 81218 000 000 001

10 3 1 13