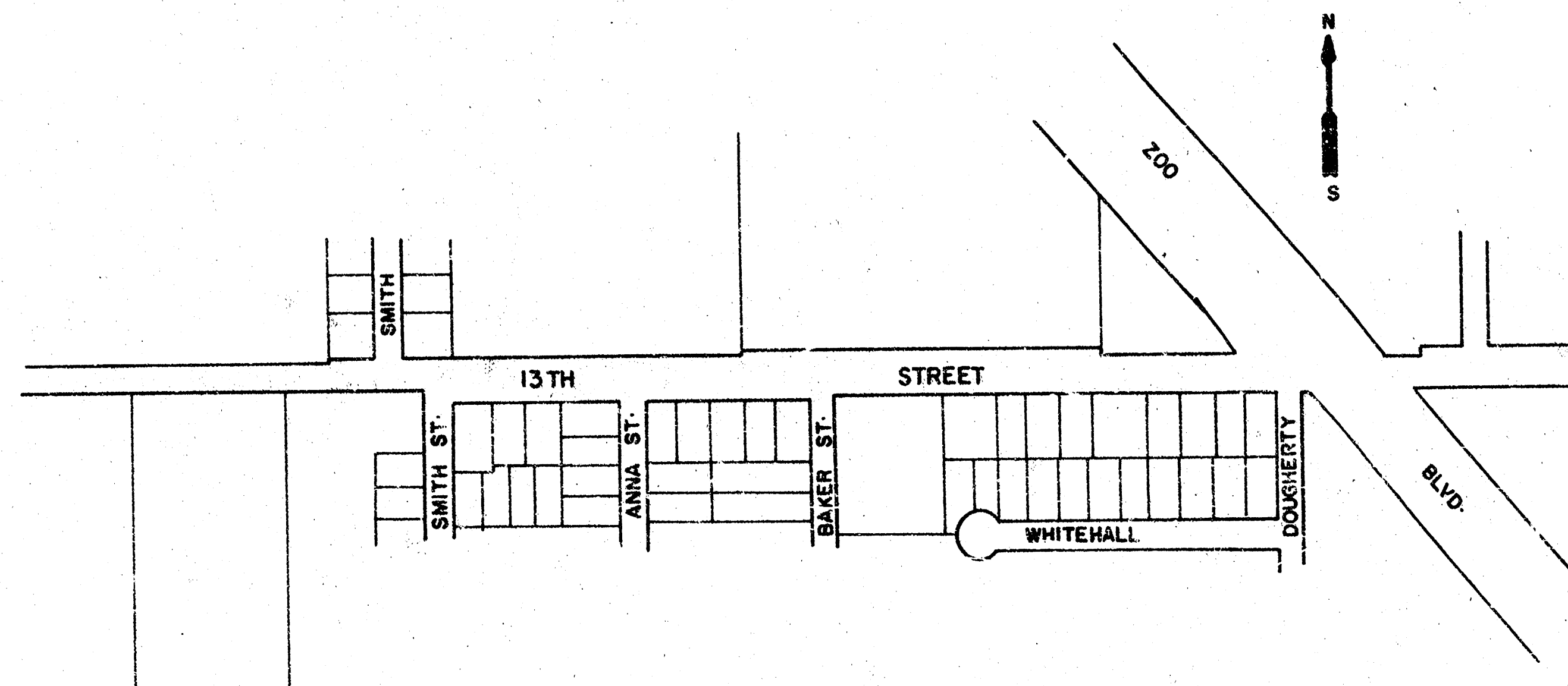


13th STREET

W.L. E1/2, Lot 5, R.A. Morris Tracts To W.L. Zoo Blvd.

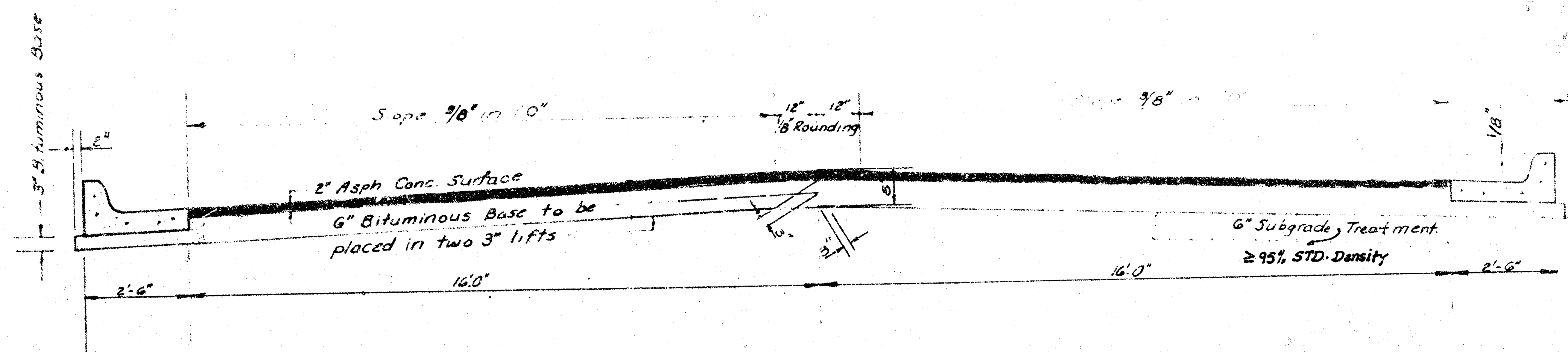
GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE WORK WITH STORM SEWER CONTRACTOR AND CONTACT RELEVANT UTILITY COMPANIES AND OTHER AGENCIES INVOLVED WITH THIS PROJECT.
2. TREES AND HEDGE ROW TO BE REMOVED ARE MARKED  ALL TREES WHICH IN THE OPINION OF THE FIELD ENGINEER CAN BE SAVED, SHALL BE SAVED.
3. STRUCTURES OF INLETS "BY OTHERS".
4. COST OF REGRADING OF DITCHES AND GRAVEL ROADS (INCLUDING 13TH AND SMITH, ANNA, BAKER) SHALL BE CONSIDERED INCIDENTAL TO EXCAVATION.
5. COST OF REMOVAL OF STONES AND CONCRETE BLOCKS AROUND PIPES SHALL BE CONSIDERED INCIDENTAL TO L.F. PIPE REMOVAL.
6. CONTRACTOR SHOULD CONSTRUCT DRIVES TO P.L. (FOR CONSTRUCTION OF DRIVES BEHIND THE PROPERTY LINE, CONTRACTOR SHOULD CONTACT PROPERTY OWNERS).
7. PAVEMENT REMOVAL.
8. NO MORE THAN 6-10', 1-18', 13-20', 1-23', 1-24', 1-27' AND 1-30' DRIVEWAY APPROACHES OR THE EQUIVALENT TO BE CONSTRUCTED.
9. REMOVE AND REPLACE ALL MAILBOXES IN THIS PROJECT.



City Of Wichita, KS.

R. W. Bruggeman Director Of Engineering/City Engineer
 Proj. No. 472-76-245-80458-000-000-001



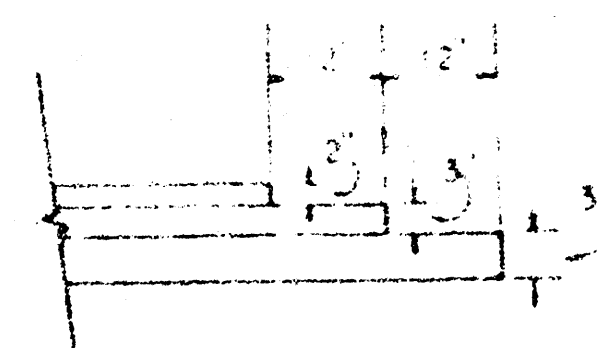
TYPICAL SECTION

37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE PAVEMENT.

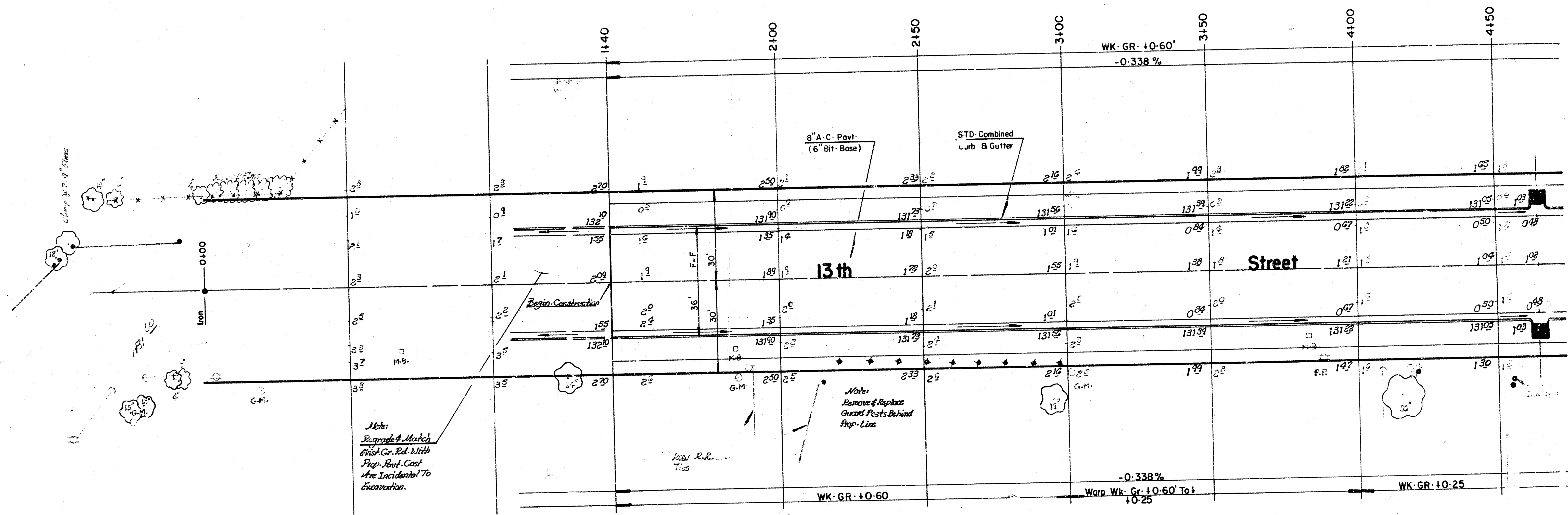
CITY OF WICHITA KANSAS
DEPARTMENT OF ENGINEERING

R. W. BRUGGEMAN
DIRECTOR OF ENGINEERING/CITY ENGINEER

DATE _____ Proj. No. _____

15

B-M=126-934 Baker & 13th ST-N City Of Wichita B-M Disc., 26'
E & 32' S. Both



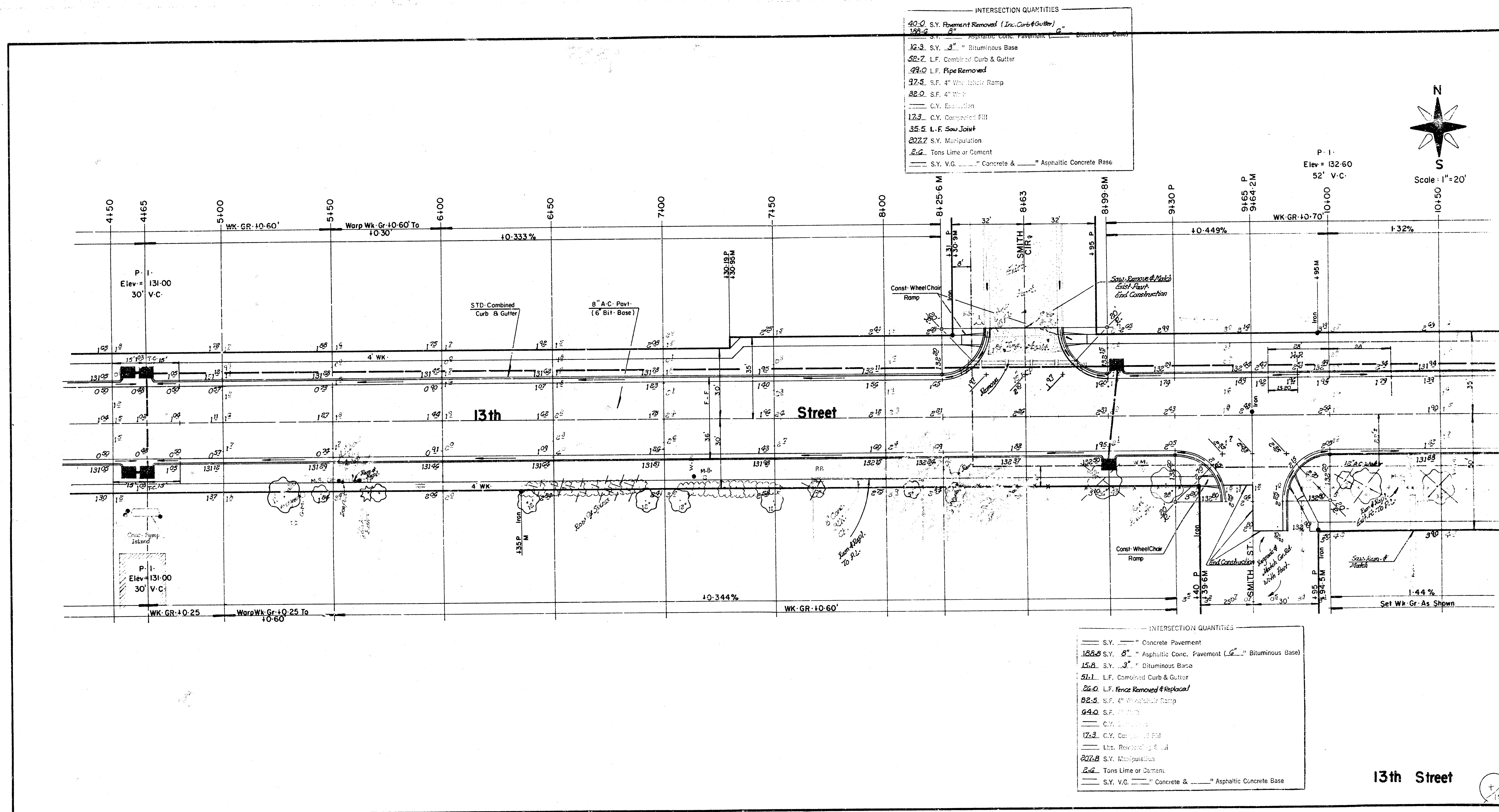
EXCAVATION	4907-90 c.y.
±10%	490-79 c.y.
TOTAL	5398-69 c.y.
Comp. Fill (wk.)	191-40 c.y.
±10%	19-14 c.y.
TOTAL	210-54 c.y.
Main. Paving	11987-20 s.y.

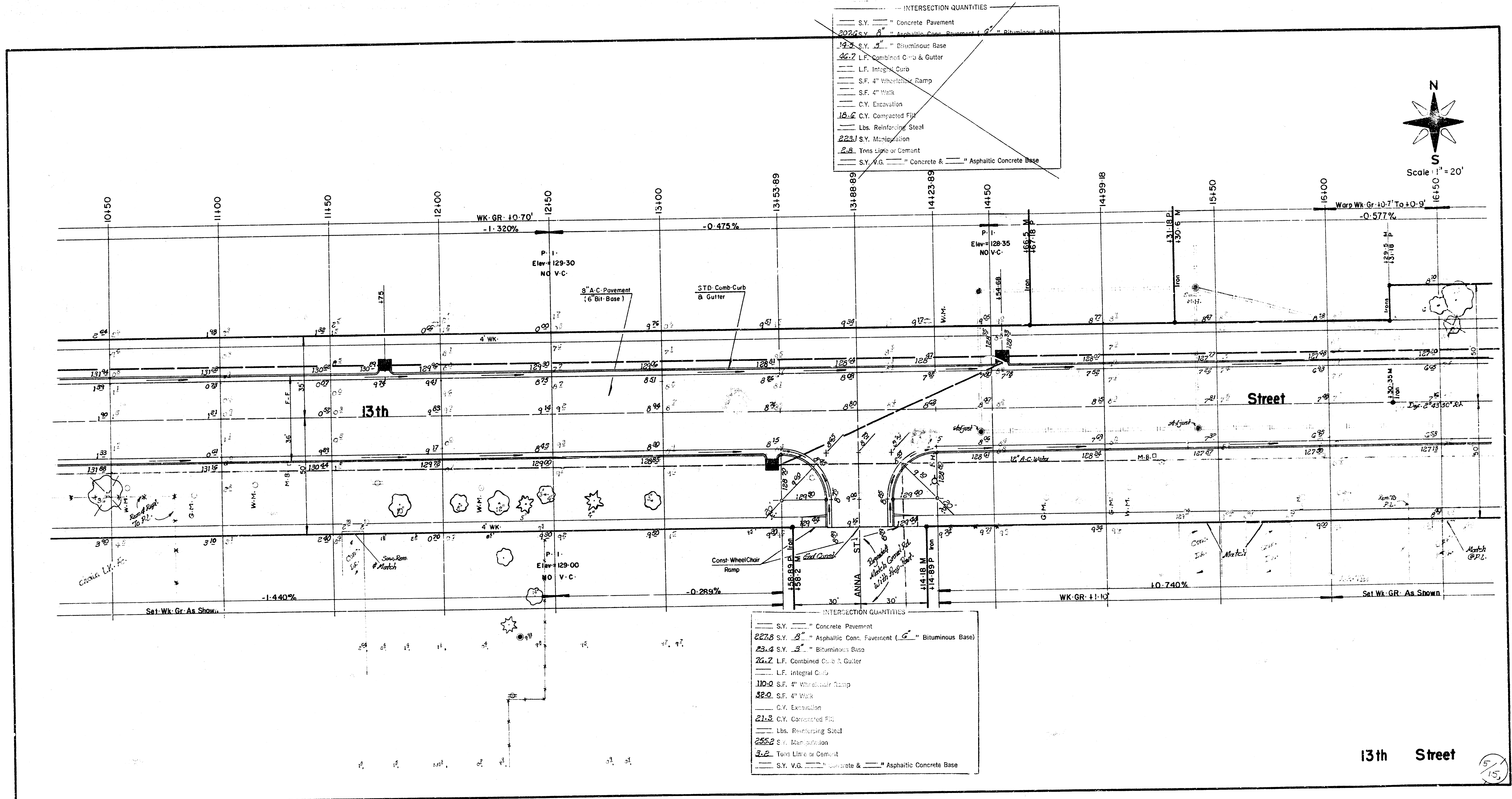
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.

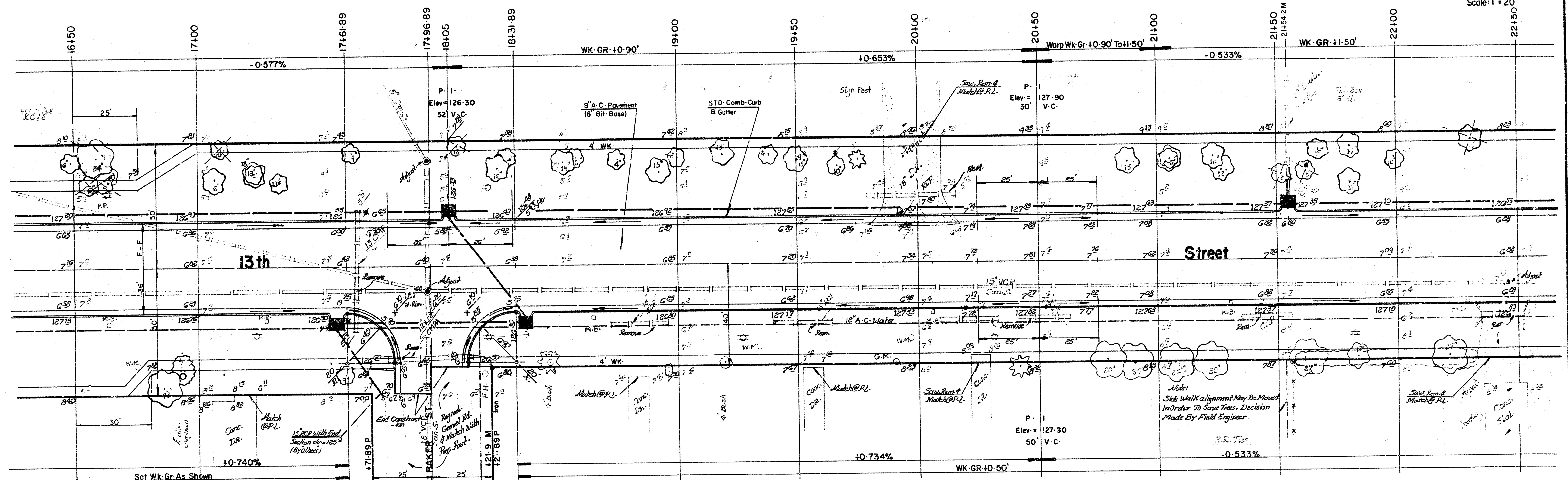
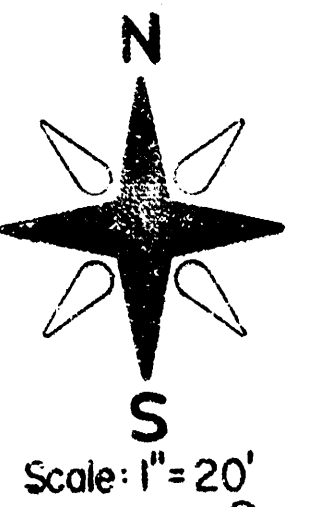
SUB-GRADE
TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.



13th Street







INTERSECTION QUANTITIES

192.1	S.Y.	8"	Concrete Pavement
172.2	S.Y.	3"	Asphaltic Conc. Pavement (6" Bituminous Base)
25.9	L.F.		Combined Curb & Gutter
35.0	L.F.		Pipe Removed
35.0	S.F.		4" Wheelchair Ramp
1			Man Hole Adjusted
			C.Y. Excavation
18.1	C.Y.		Compacted Fill
			Lbs. Reinforcing Steel
217.8	S.Y.		Manipulation
2.7	Tons		Lime or Cement
	S.Y.	V.G.	Concrete & Asphaltic Concrete Base

13th Street



Note:
Regrade Ditch (100') Cost Of Regrading
Is Incidental To L.F. Pipe

48.5' L. Sta 27+17 Const Double 24x2'
Drip Inlet, T=126.0 Install 62 RCP
USFL=123.4 DSFL=122.7
Connect Pipe To Existing M.H.
(See Detail Pg. 15)

Const. 18" RCP Pipe

200

BLVD.

Street

13th

Note:
Side Walk Alignment May Be Moved
In Order To Save Trees. Decision
Made By Field Engineer

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In Order To Save Trees. Decision
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In Order To Save Trees. Decision
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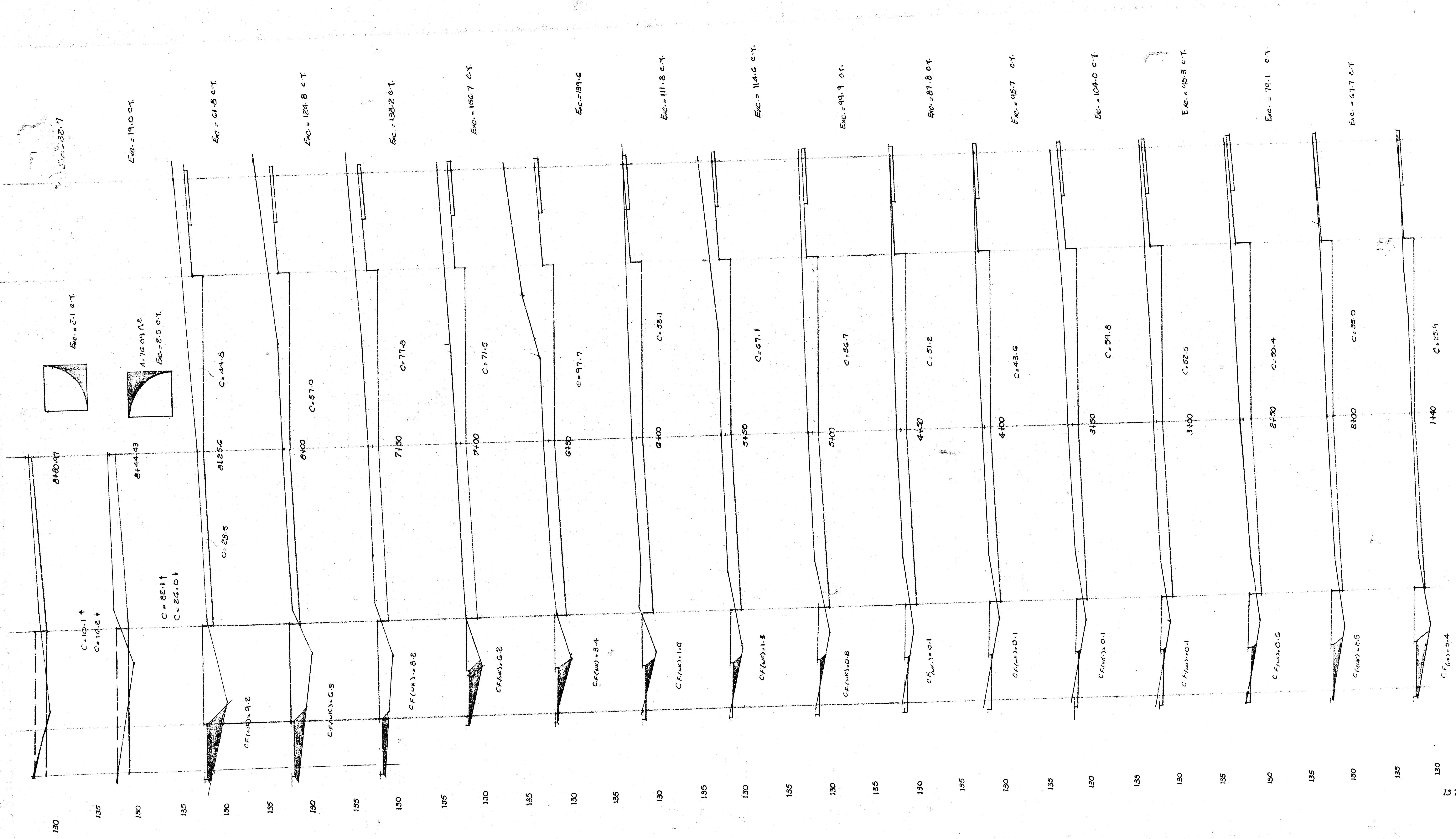
INTERSECTION QUANTITIES

- 453.7 S.Y. 8" Concrete Pavement
- 142.4 S.Y. 8" Asphaltic Conc. Pavement (6" Bituminous Base)
- 23.6 S.Y. 8" Bituminous Base
- 80.1 L.F. Combined Curb & Gutter
- 105.8 L.F. Integral Curb
- 473.9 S.Y. Pavement Removed (Inc. Cb.)
- L.F. Integral Curb Rem.
- C.Y. Excavation
- 52.9 C.Y. Connected Fill
- 23.0 L.F. Saw Joint
- 634.7 S.Y. Municipal
- 7.9 Tons Lime or Cement
- 54.0 L.F. Pipe Removed

- 1 Manhole Adjusted
- 444.0 S.F. Walk
- 35.0 S.F. Wheelchair Ramp

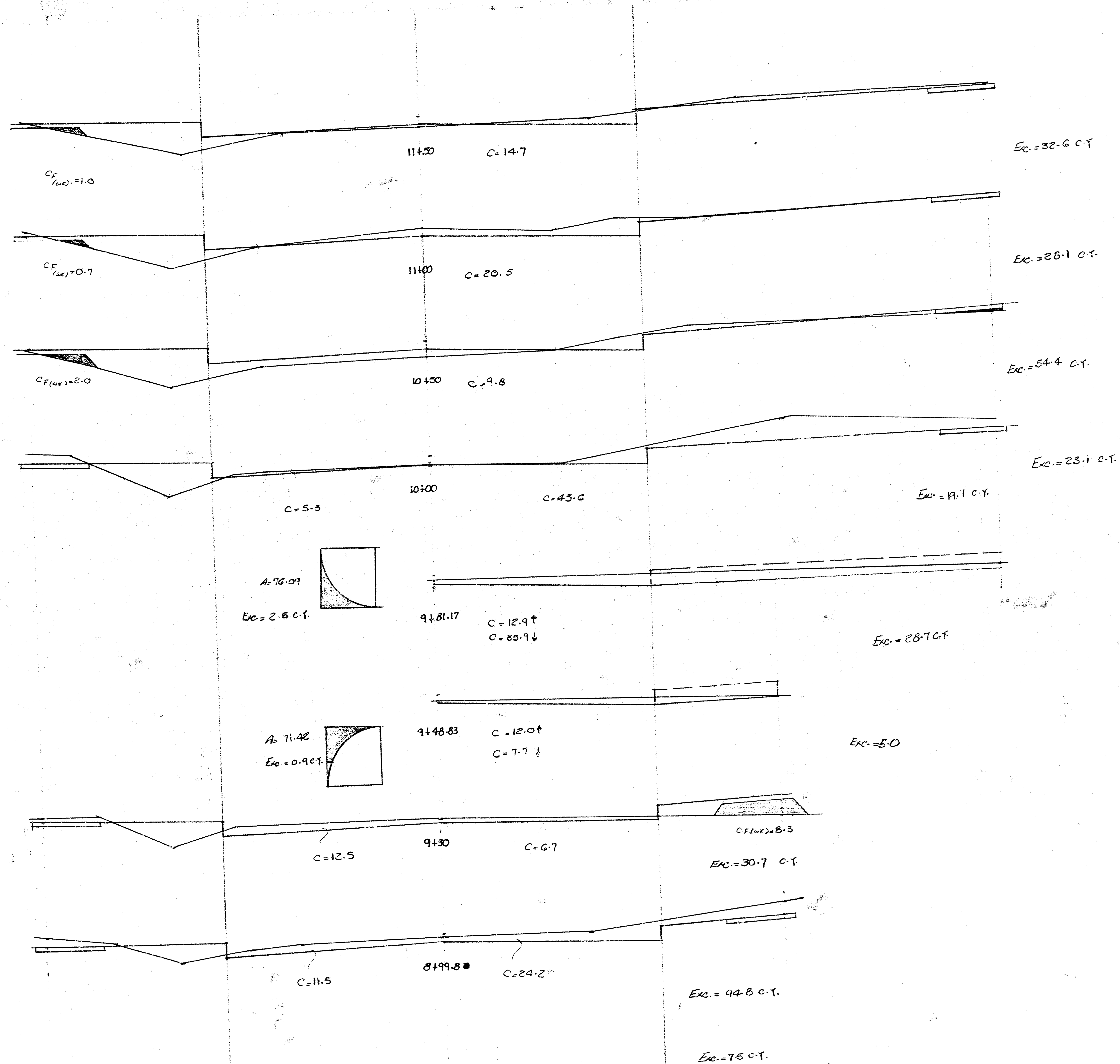
13th Street

7/15

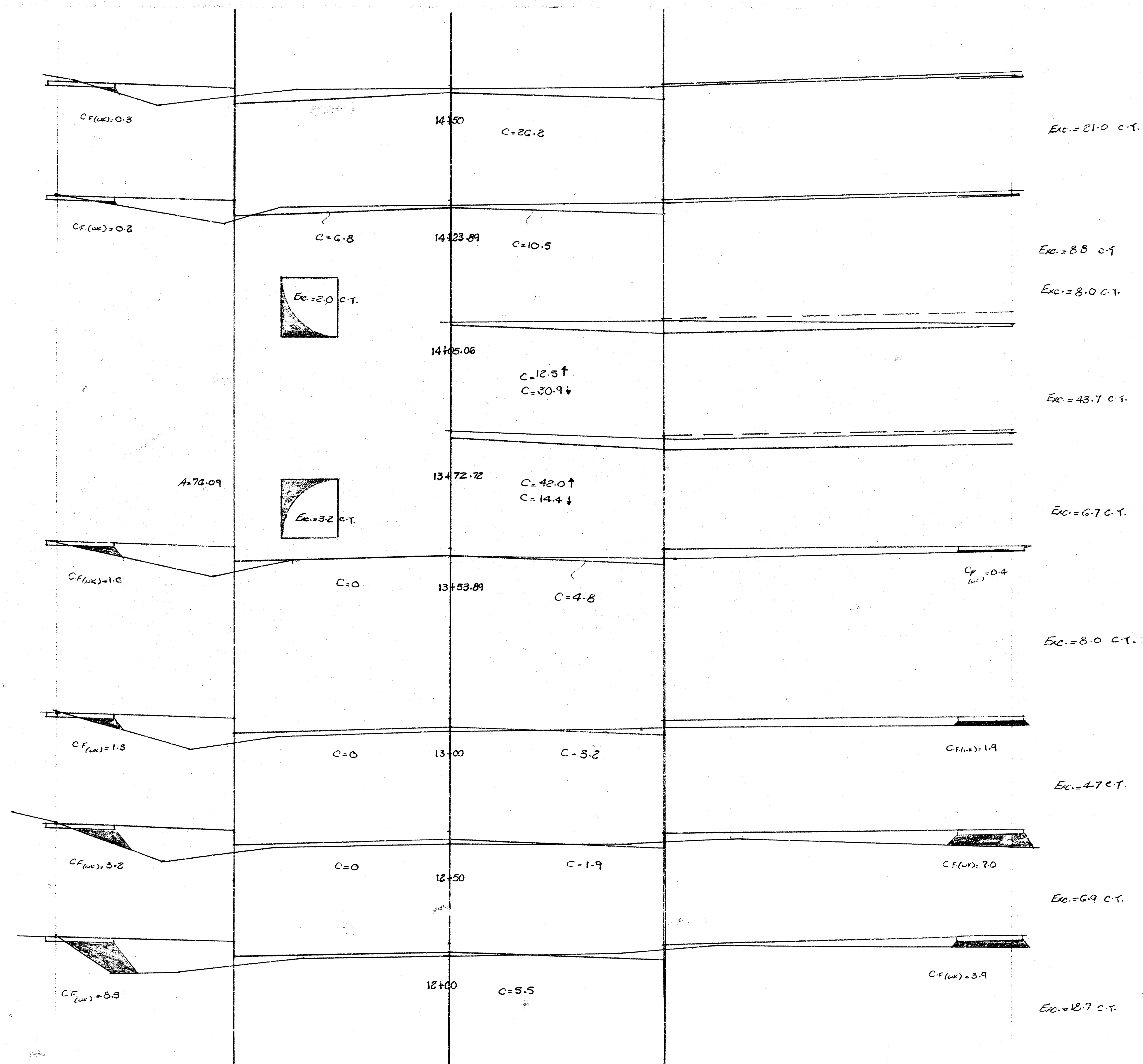


$E_{c, Total} = 4907.4 \text{ c.Y.}$
 $E_{c, Total} = 191.4 \text{ c.Y.}$

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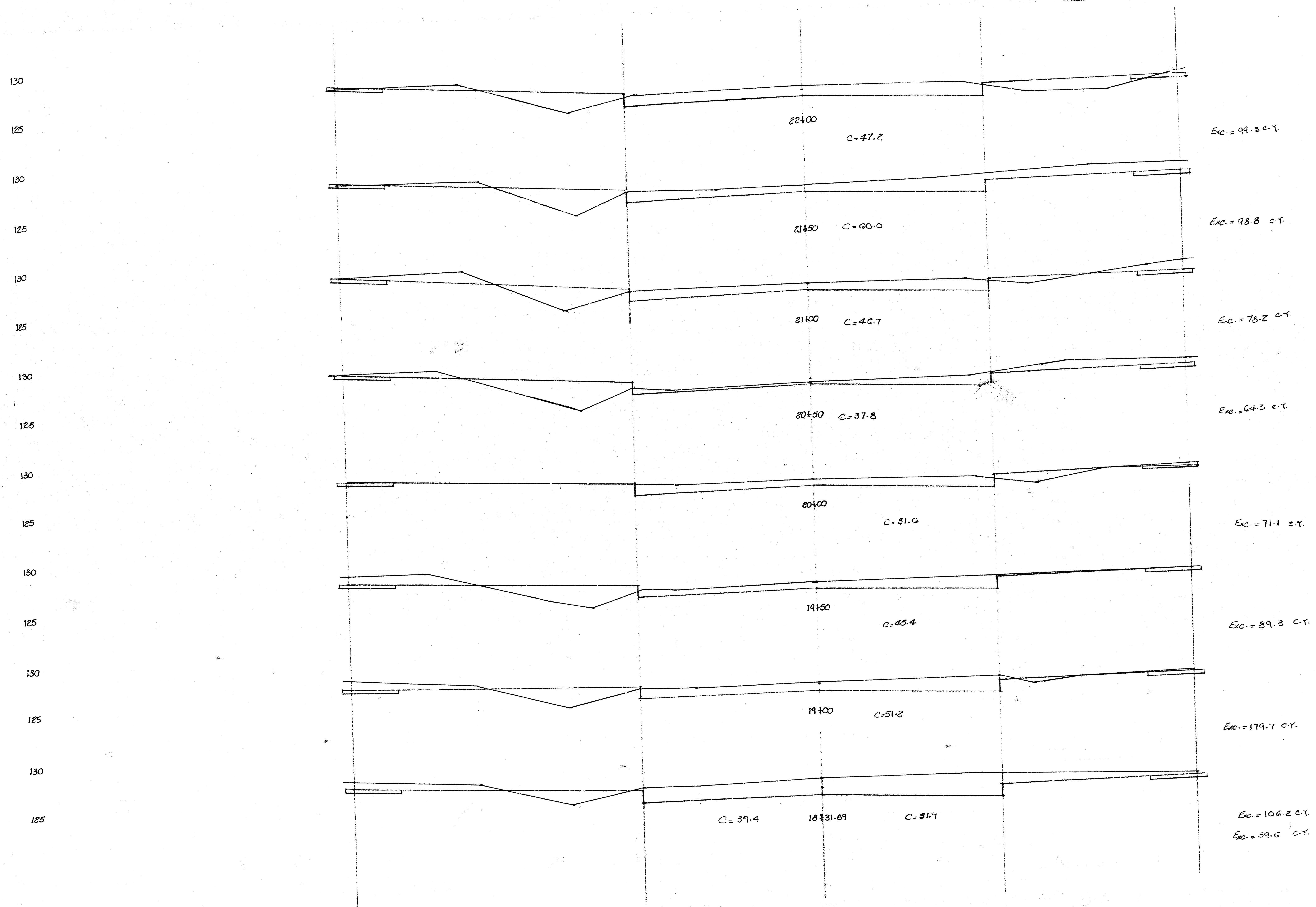


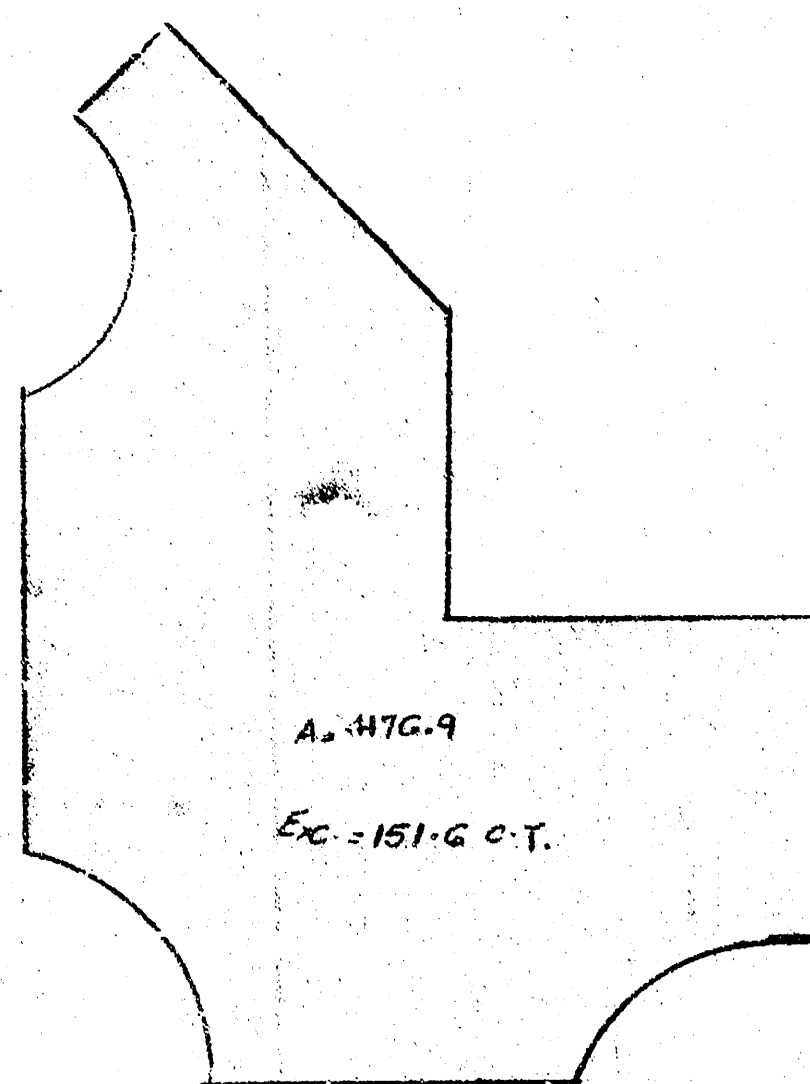
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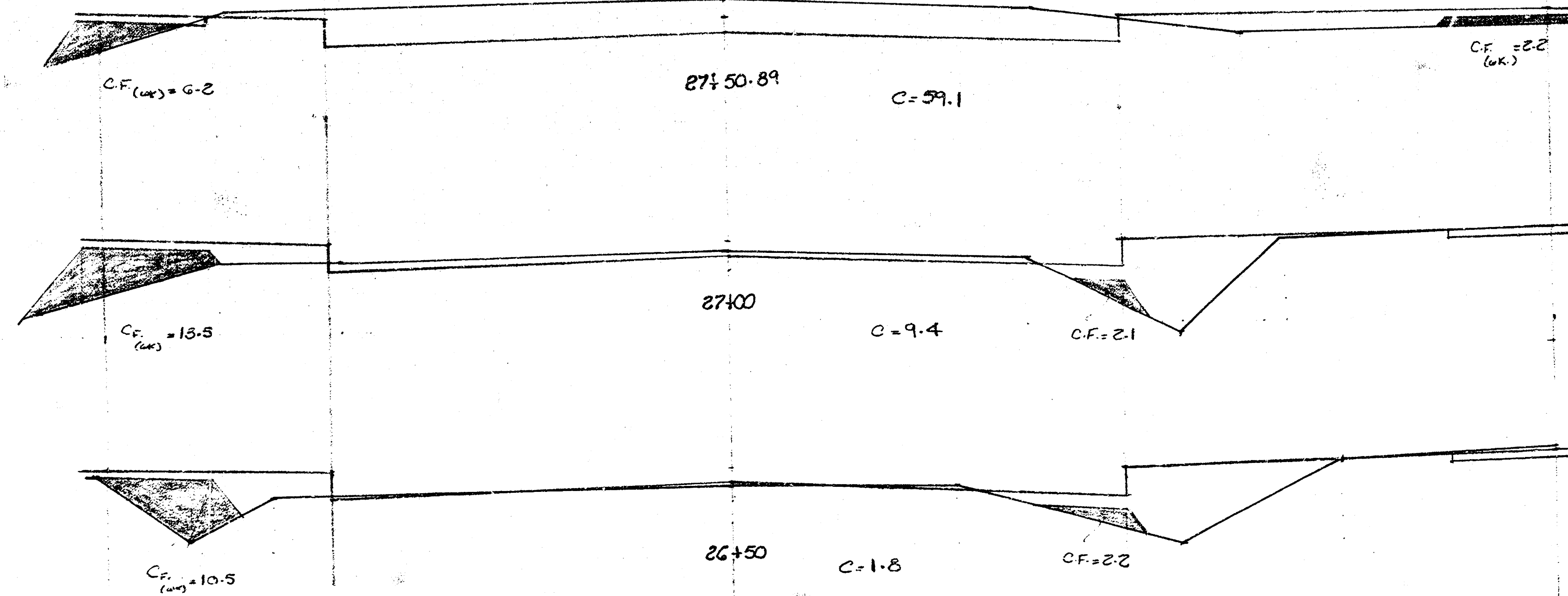
137th Street

10
15





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 125
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 125
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 125



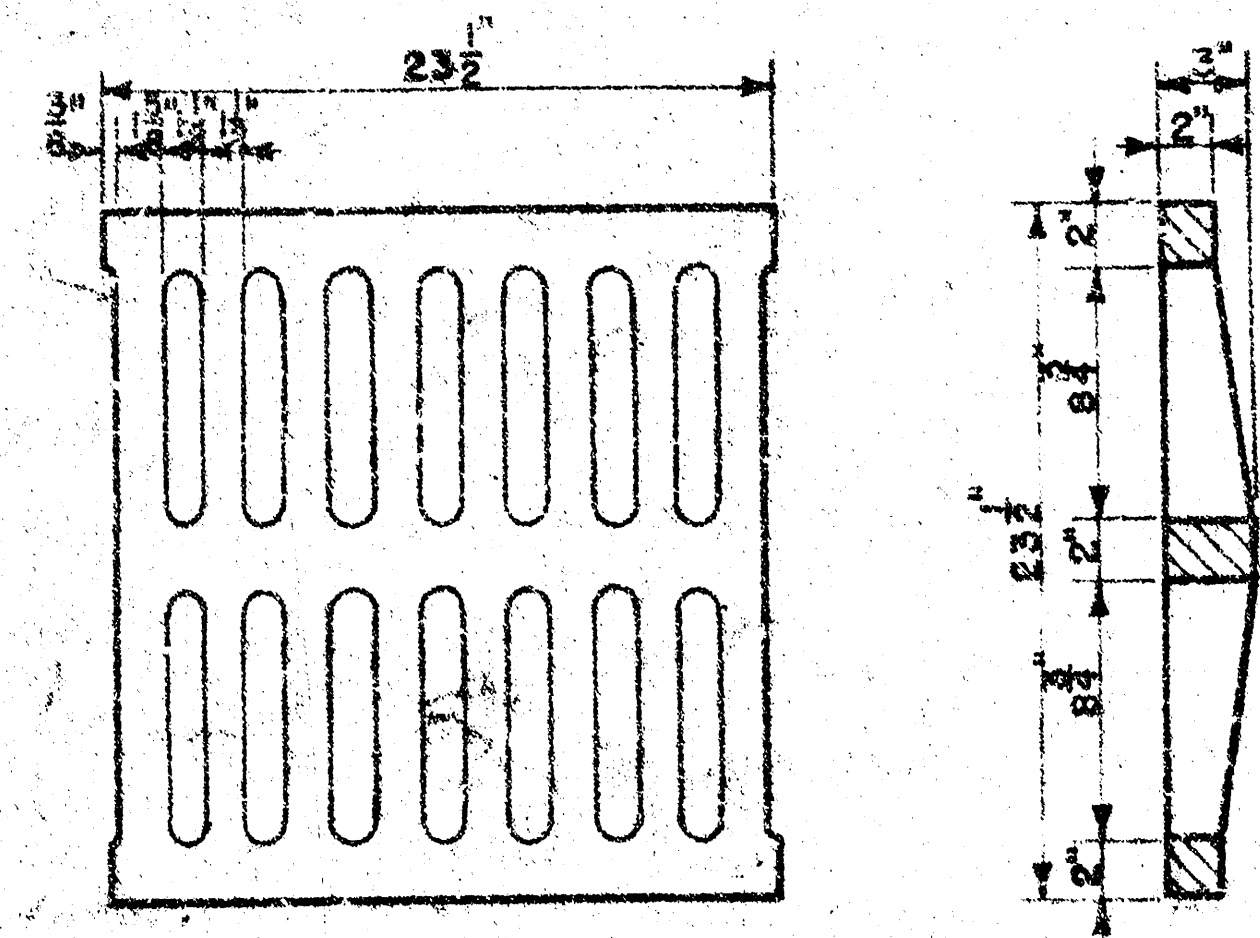
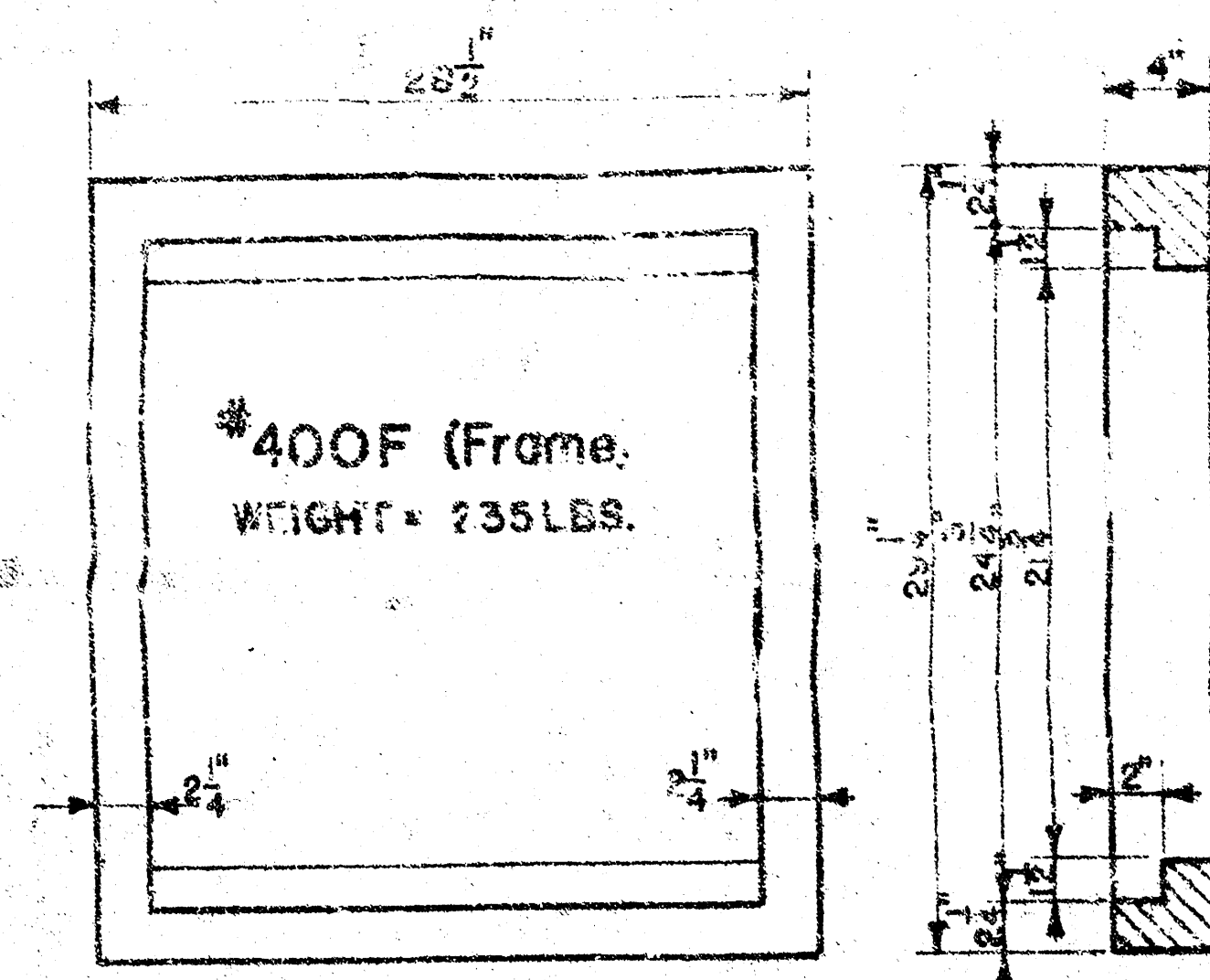
$Exc = 64.6 \text{ c.y.}$
 $Exc = 10.4 \text{ c.y.}$
 $Exc = 14.7 \text{ c.y.}$

13th Street

14/15

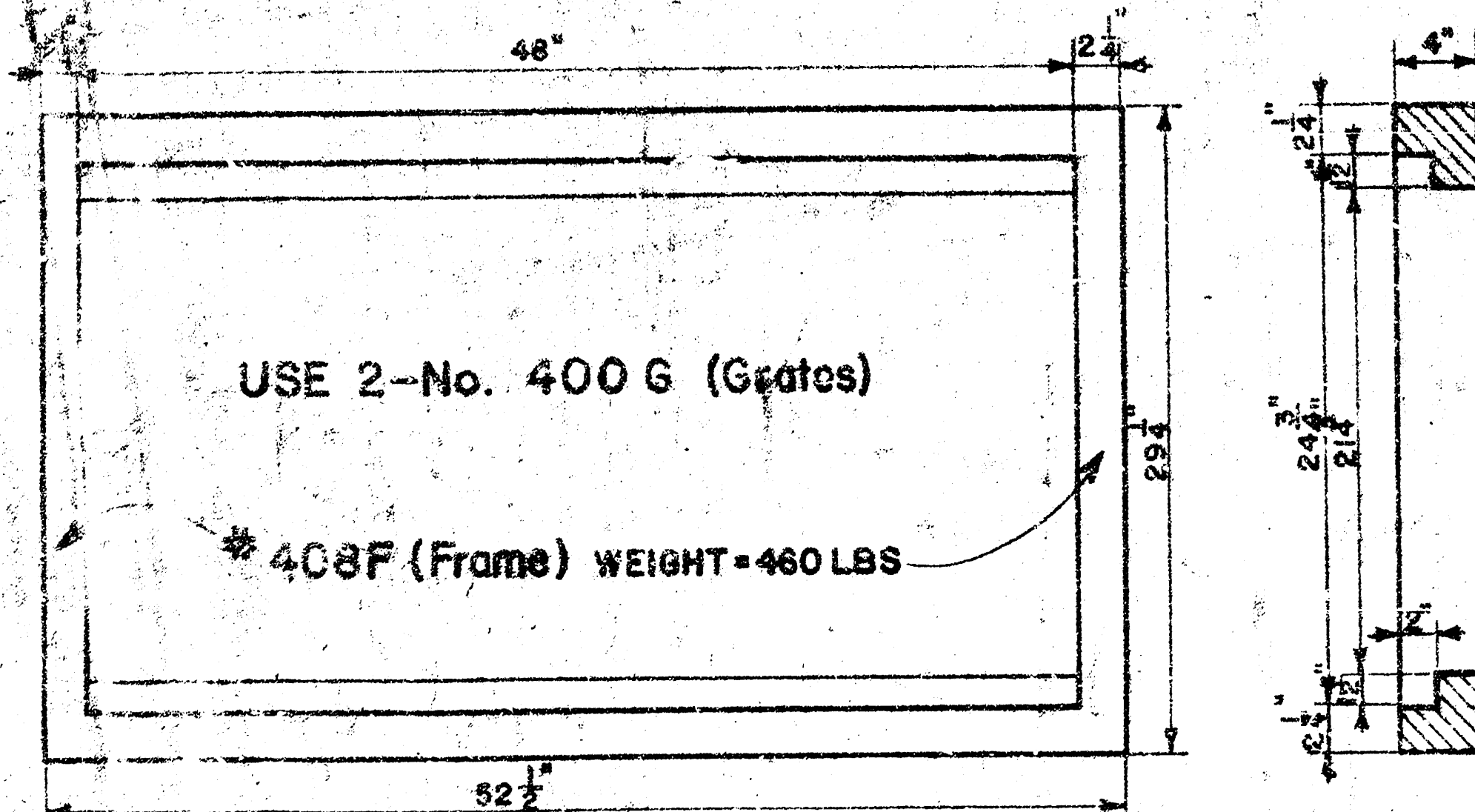
14/15

NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be used only if approved by the engineer.

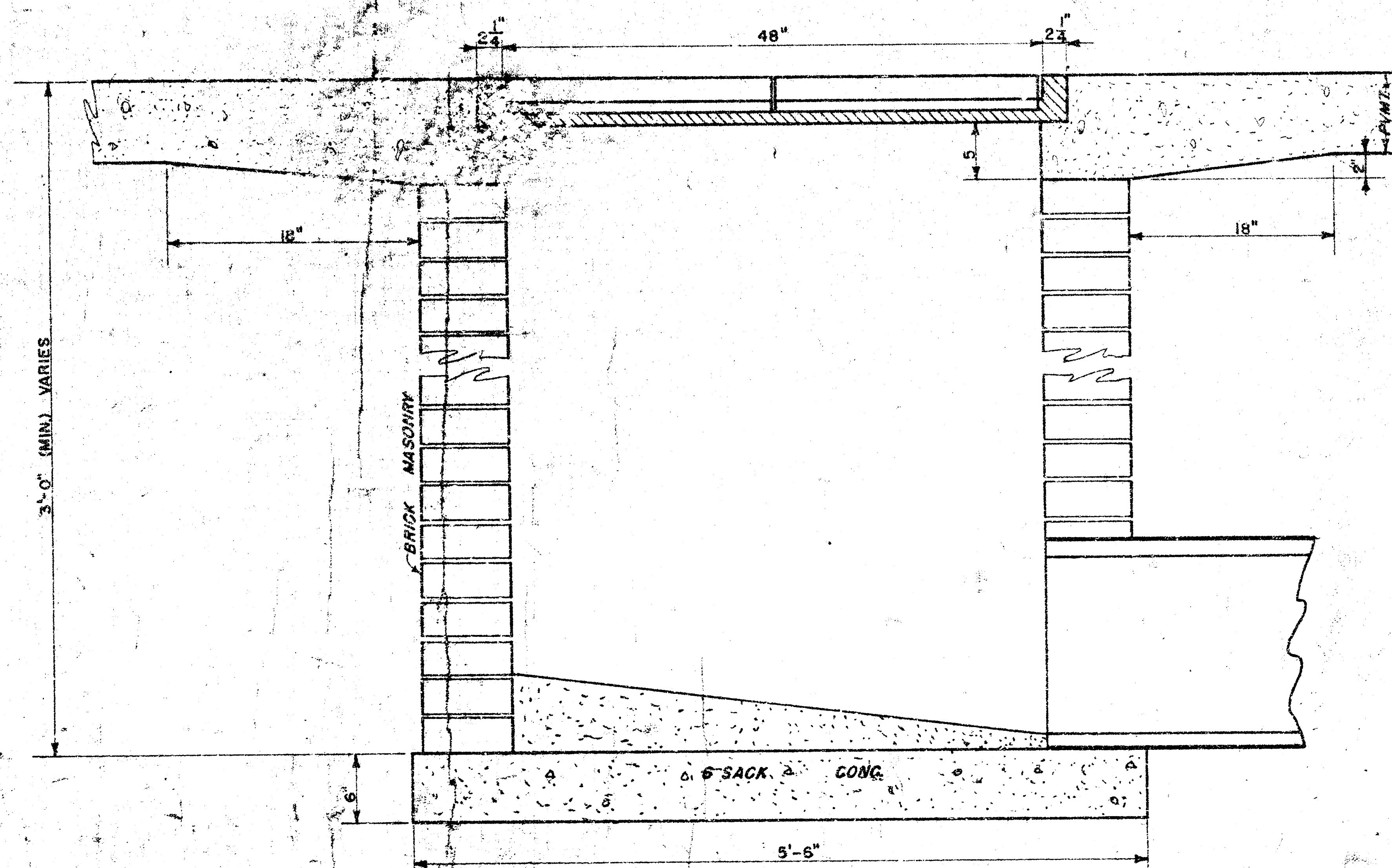
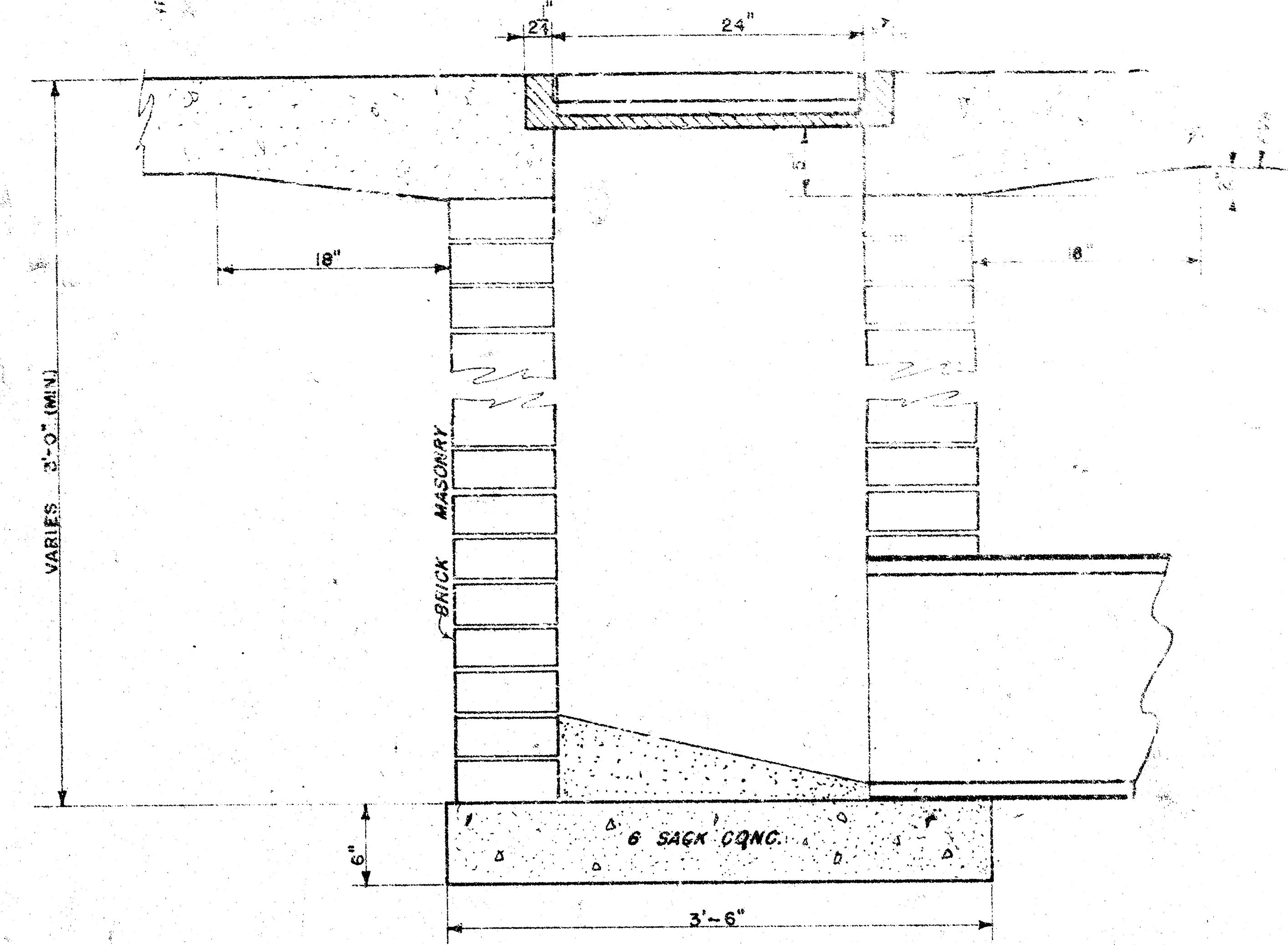
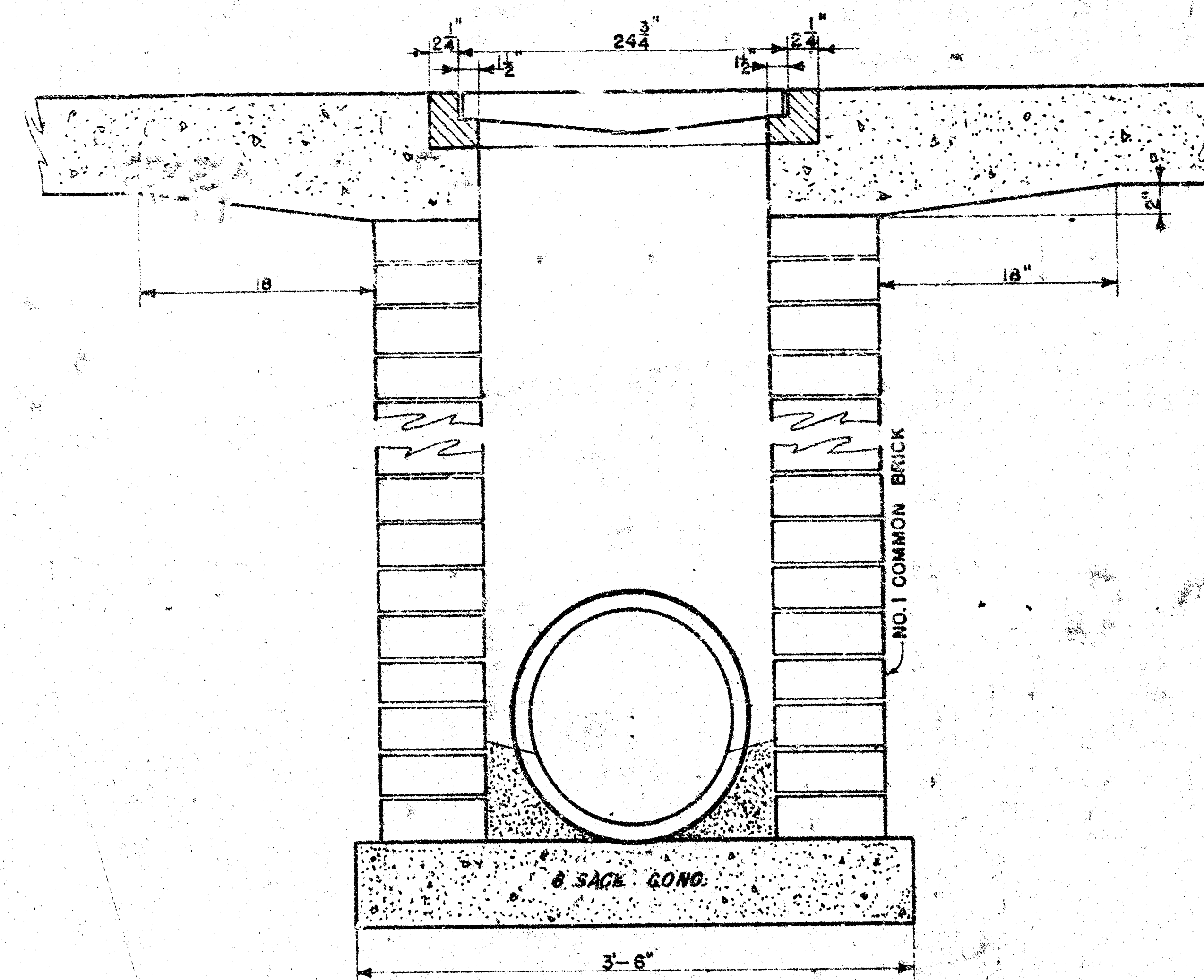


400G (Grate)
WEIGHT = 235 LBS

24"x24" Frame & Grate Detail



Double 24"x24" Frame Detail



DROP INLET DETAILS

R.W. Bruggeman, City Engineer

City of Wichita, Kan.

Project

Project No.

Date:

Scale: 1-1/2" = 1'-0"

10 10 1 10