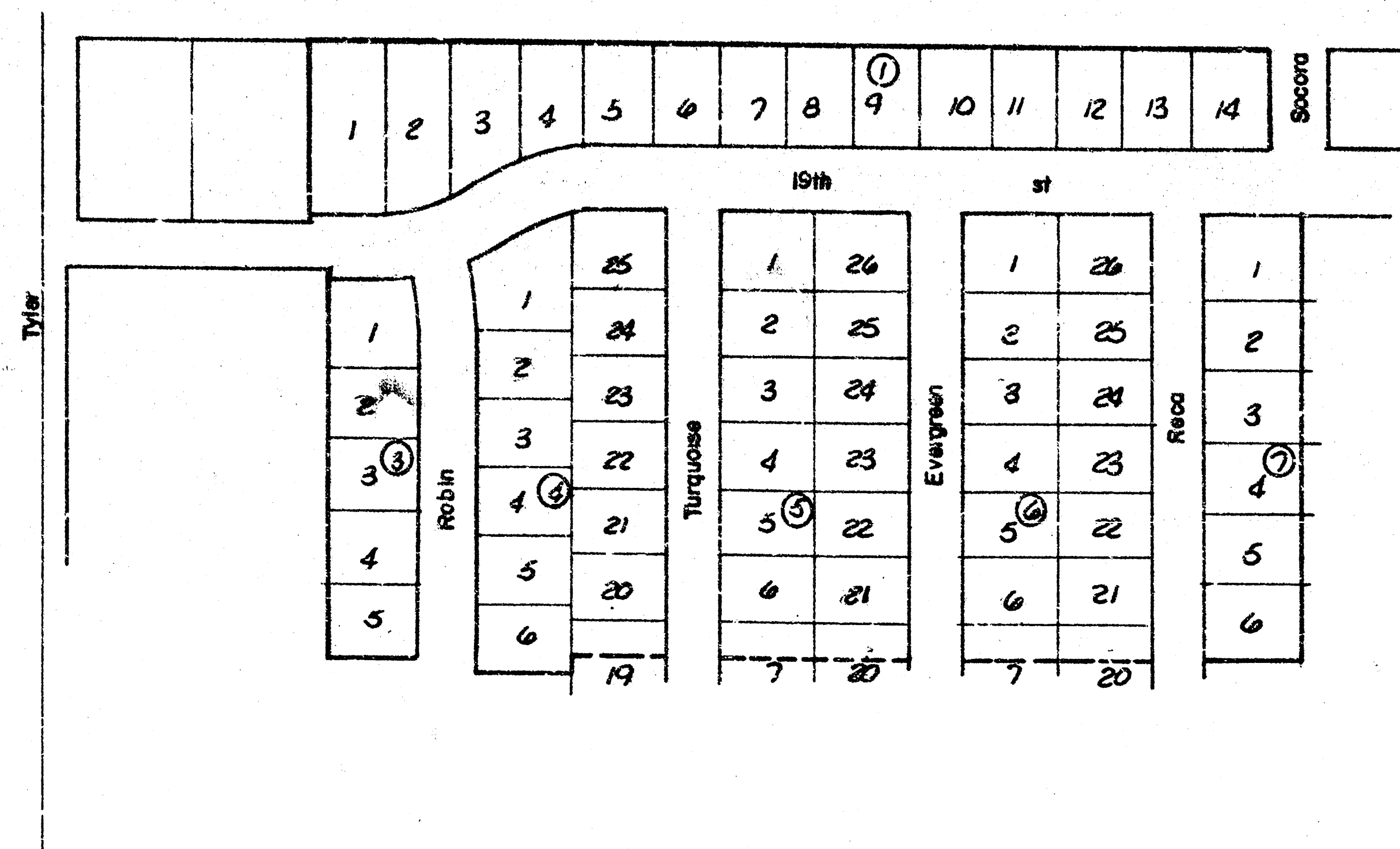
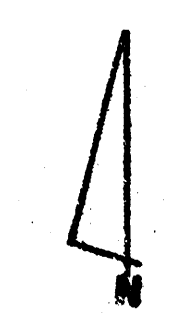


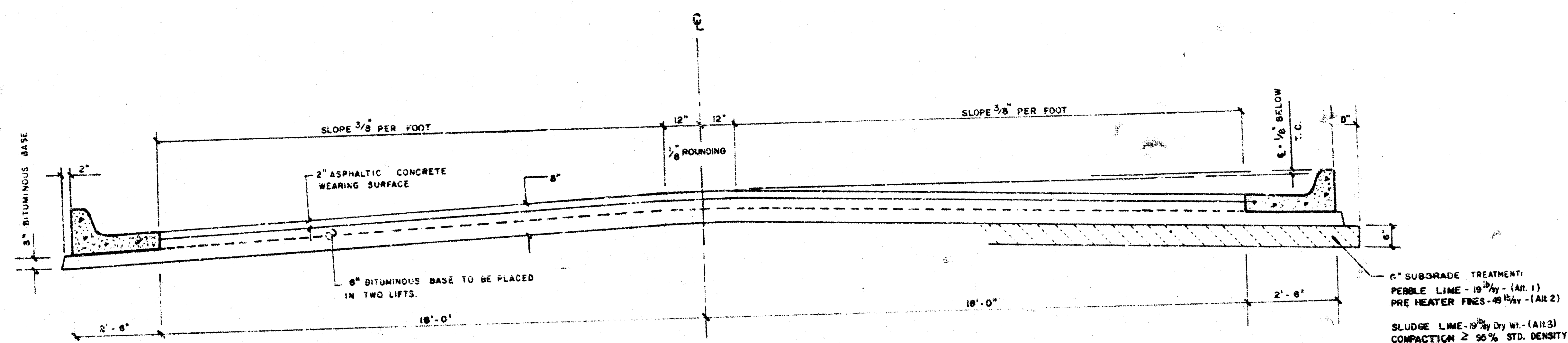
19th st North
from WL blks 1&3 to EL lot1 blk 7
Westlink Village 16th Addition

NOTE: THE FIRST ITEM OF WORK TO BE COMPLETED ON THIS PROJECT WILL BE THE CONSTRUCTION OF INLET HOOKUPS WHERE REQUIRED TO PERMIT PROPER DRAINAGE FROM EXISTING PAVEMENT TO EXISTING INLETS.

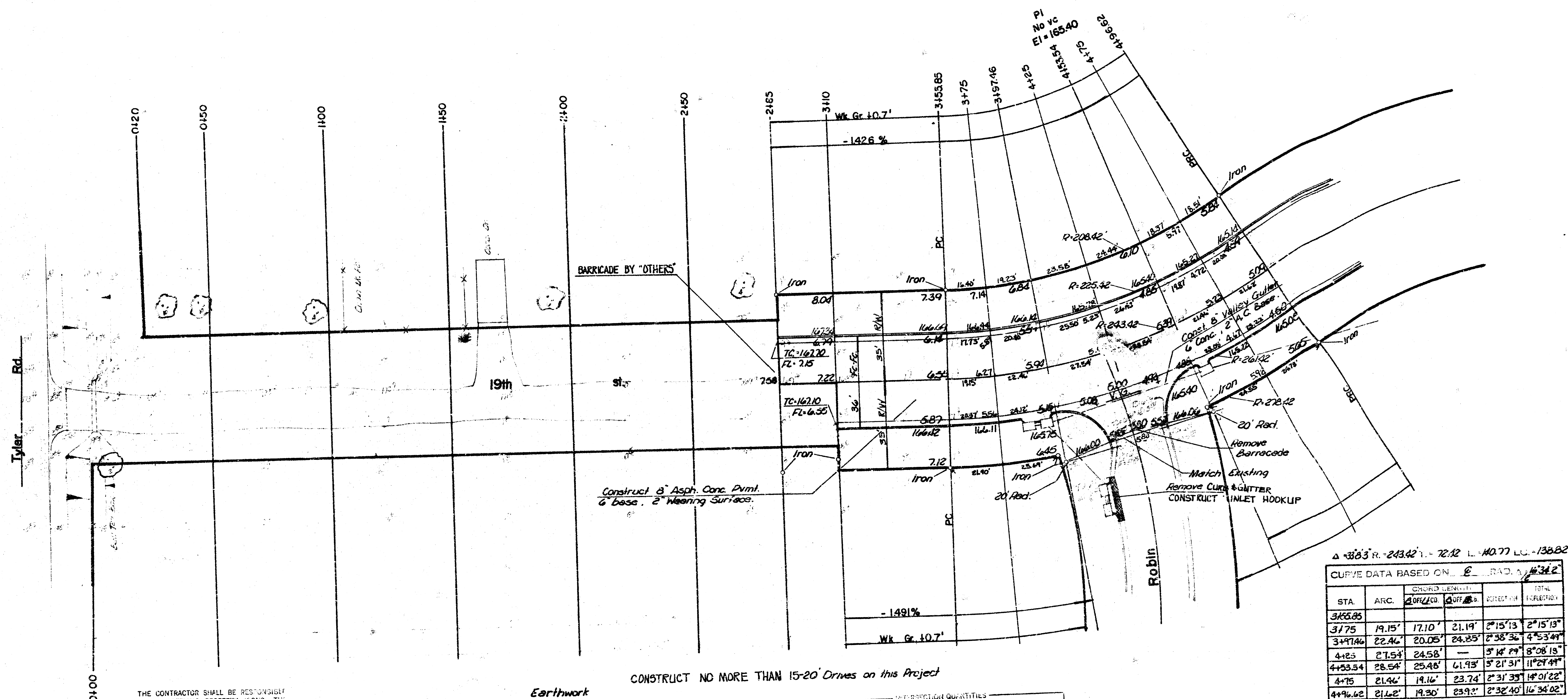


Department of Engineering
City of Wichita, Kansas
R. W. Bruggeman Director Engineering / City Engineer
Proj. no. 472-76-245-80745-000-000-00!
Date _____





BM 174.69 SW cor. conc. porch, house no. 1956 N. Tyler
 BM 172.43 City Std. 31' S. and 36' E. of 1/4 Sec. Cor. Tyler Rd. & 17th St N.
 BL is C.R.O.W.



Δ = 38.3° R. - 243.42' L. - 72.12' L. - 40.77' L. - 138.82'

CURVE DATA BASED ON E. RAD. A. 434.2'

STA.	ARC.	CHORD LENGTH	CHORD BEARING	CURVE DATA	TOTAL EXCURSION
3+55.85					
3+75	19.15'	17.10'	21.19'	2° 15' 13"	2° 15' 13"
3+97.46	22.46'	20.05'	24.25'	2° 38' 36"	4° 53' 49"
4+25	27.54'	24.58'		3° 18' 29"	8° 08' 18"
4+53.54	28.54'	25.48'	41.93'	3° 21' 31"	11° 29' 49"
4+75	21.46'	19.16'	23.74'	2° 31' 39"	14° 01' 22"
4+96.62	21.62'	19.30'	23.92'	2° 32' 40"	16° 34' 02"

DEFL. $\frac{M}{H} = 7.061348227$

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

Earthwork

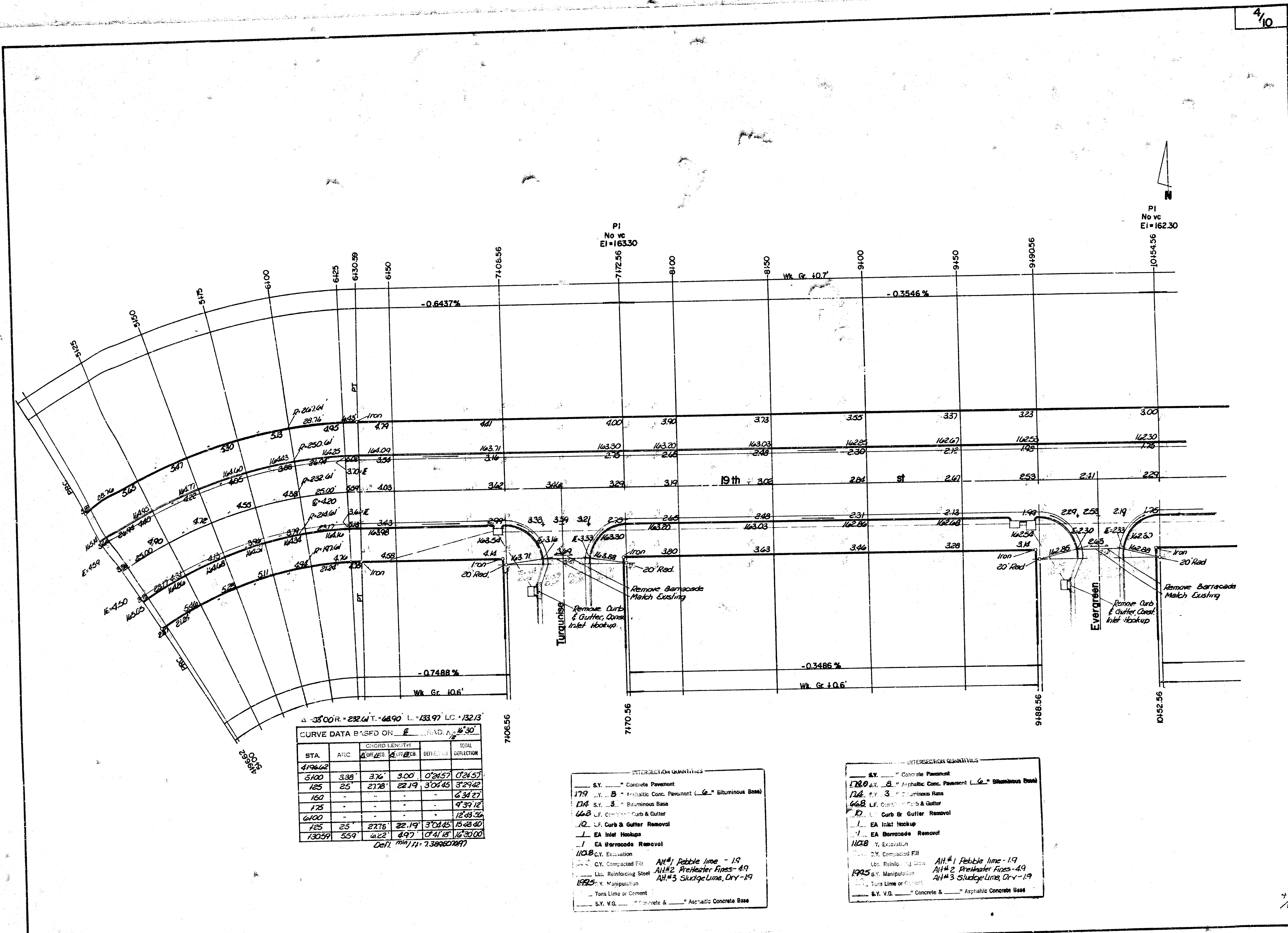
	Property	City
Excavation	2239.2 CY	616.8 CY
110%	2259 CY	617 CY
Total	2463.1 CY	678.5 CY
Manipulation	5143.4 SY	

CONTRACTOR TO BID ONLY 1 ALTERNATE FOR SURGRADE TREATMENT. ALTERNATE CHOSEN BY SUCCESSFUL BIDDER SHALL BE USED TO CONSTRUCT THIS PROJECT.

INTERSECTION QUANTITIES

103	S.V. 8"	Asphaltic Concrete Pavement (6" Bituminous Base)
221	S.V. 3"	Asphaltic Concrete Pavement
221	S.V. 3"	Asphaltic Concrete Pavement
567	S.V. 3"	Asphaltic Concrete Pavement
2	EA Inlet Hookups	
1	EA Remove Barricade	
103.3	S.V. 3"	Asphaltic Concrete Pavement
20	LF Curb & Gutter Removal	
1870	S.V. Manipulation	
772	S.V. 6"	Concrete & 2" Asphaltic Concrete Base

19th St. North
 from WL Blocks 183, Westlink Village 16th Addition
 to EL Lot 1, Block 7, Westlink Village 16th Addition



Δ 3500R = 232.61T = 4890 L = 133.97 LC = 132.13

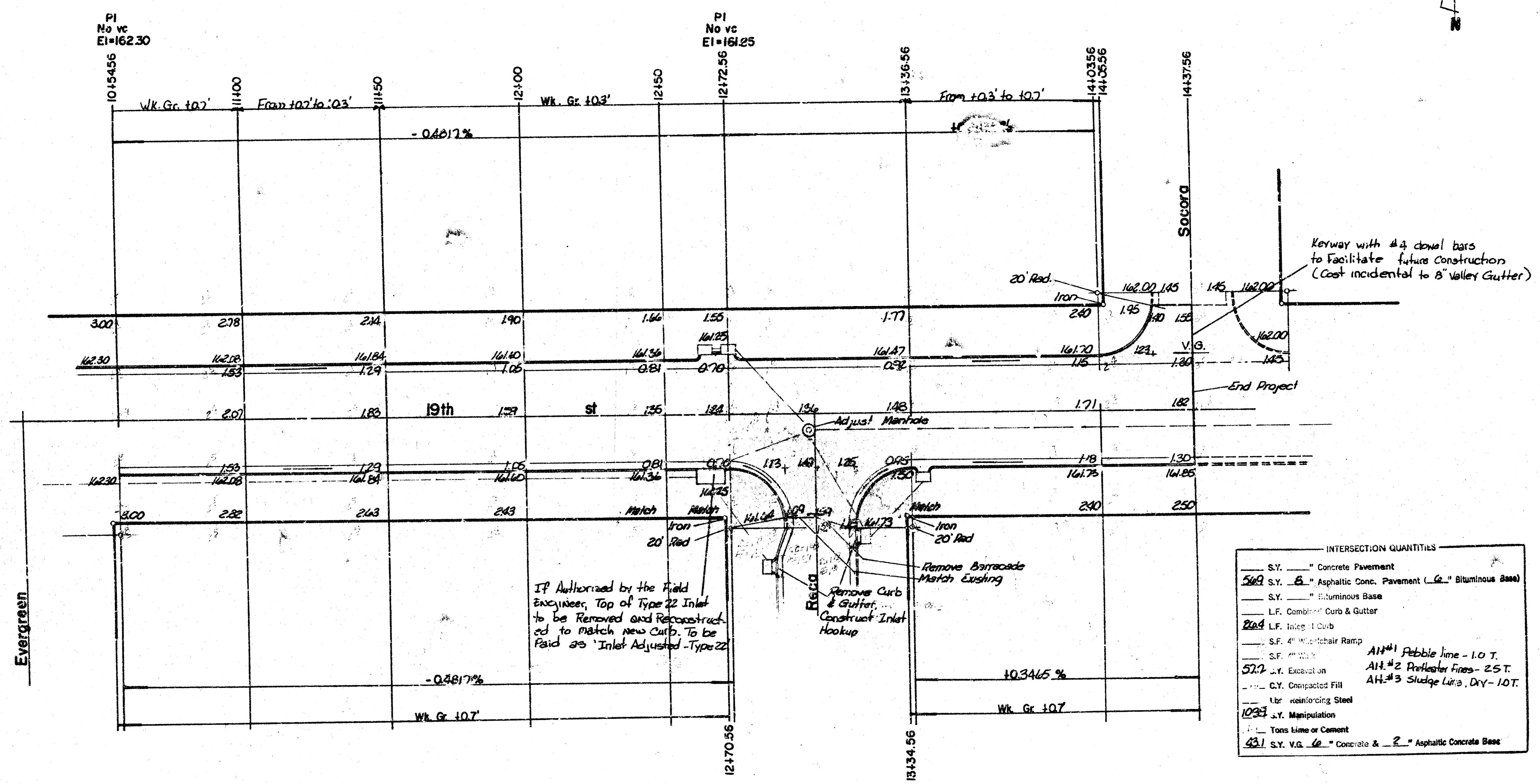
CURVE DATA BASED ON $\frac{1}{2}$ IN. RAD. Δ $\frac{1}{2}$ IN. 30'

STA.	ARC	CHORD LENGTH	CHORD BEARING	DEFLECTION	TOTAL DEFLECTION
4196.62					
5100	338	376	9.00	0°24'57"	0°24'57"
125	25	2728	22.19	3°04'45"	3°29'42"
160					6°34'27"
175					9°39'12"
6100					12°43'54"
125	25	2728	22.19	3°04'45"	15°48'40"
13059	559	622	4.97	0°41'18"	16°30'00"

Def. $\frac{1}{16}$ IN. = 7.38960777

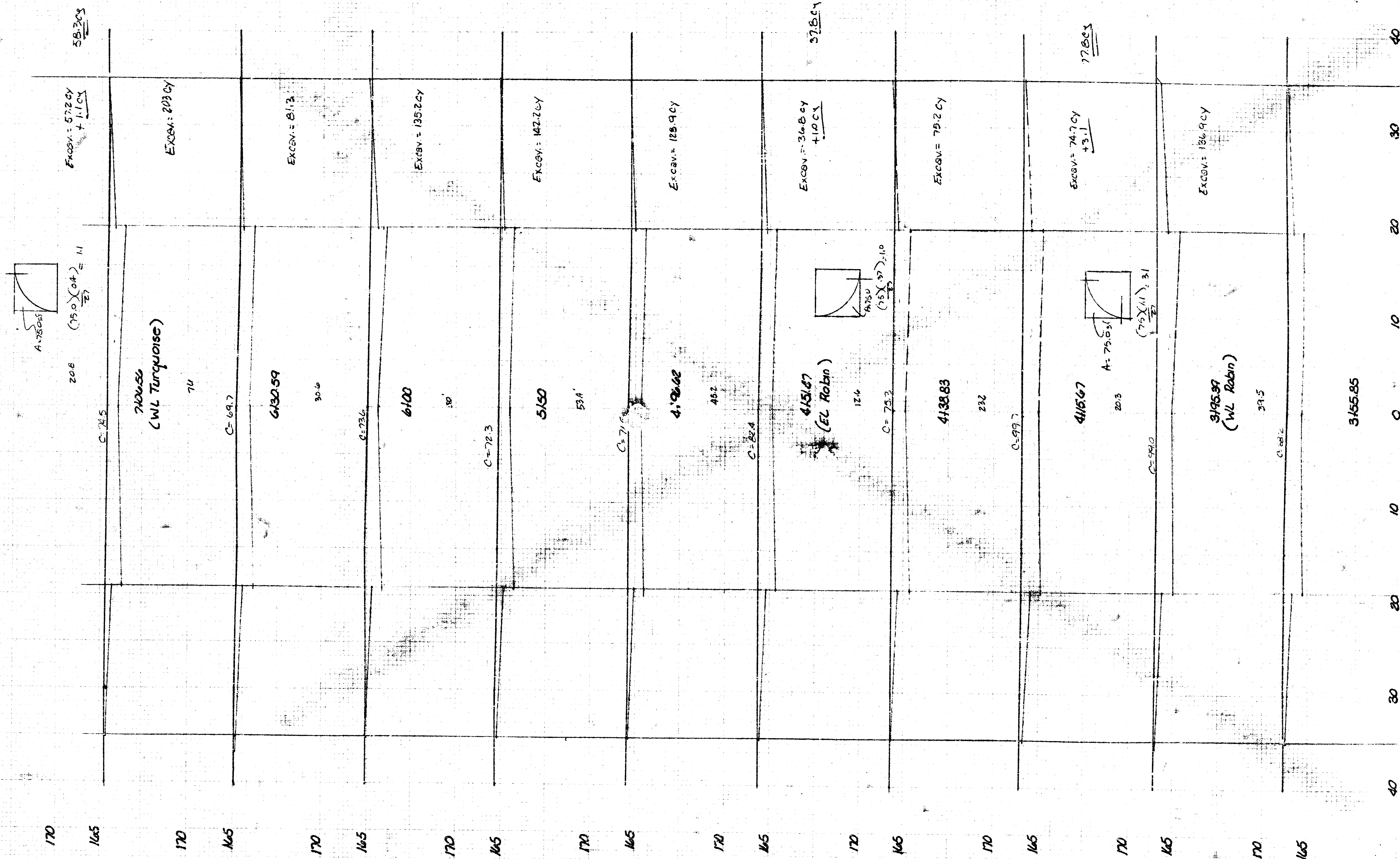
- INTERSECTION QUANTITIES
- S.Y. Concrete Pavement
 - 179 S.Y. Asphaltic Conc. Pavement (6" Bituminous Base)
 - 114 S.Y. Bituminous Base
 - 468 L.F. Concrete Curb & Gutter
 - 10 L.F. Curb & Gutter Removal
 - 1 EA Inlet Hookup
 - 1 EA Barricade Removal
 - 110.8 C.Y. Excavation
 - 100 C.Y. Compacted Fill
 - 100 Lbs. Reinforcing Steel
 - 1995 Y. Manipulation
 - Tons Lime or Cement
 - S.Y. V.G. Concrete & Asphaltic Concrete Base
- Alt #1: Pebble Lime - 1.9
Alt #2: Preheated Fines - 4.9
Alt #3: Sludge Lime, Dry - 1.9

- INTERSECTION QUANTITIES
- S.Y. Concrete Pavement
 - 1780 S.Y. Asphaltic Conc. Pavement (6" Bituminous Base)
 - 114 S.Y. Bituminous Base
 - 468 L.F. Concrete Curb & Gutter
 - 10 L.F. Curb & Gutter Removal
 - 1 EA Inlet Hookup
 - 1 EA Barricade Removal
 - 110.8 Y. Excavation
 - 100 C.Y. Compacted Fill
 - 100 Lbs. Reinforcing Steel
 - 1995 S.Y. Manipulation
 - Tons Lime or Cement
 - S.Y. V.G. Concrete & Asphaltic Concrete Base
- Alt #1: Pebble Lime - 1.9
Alt #2: Preheated Fines - 4.9
Alt #3: Sludge Lime, Dry - 1.9

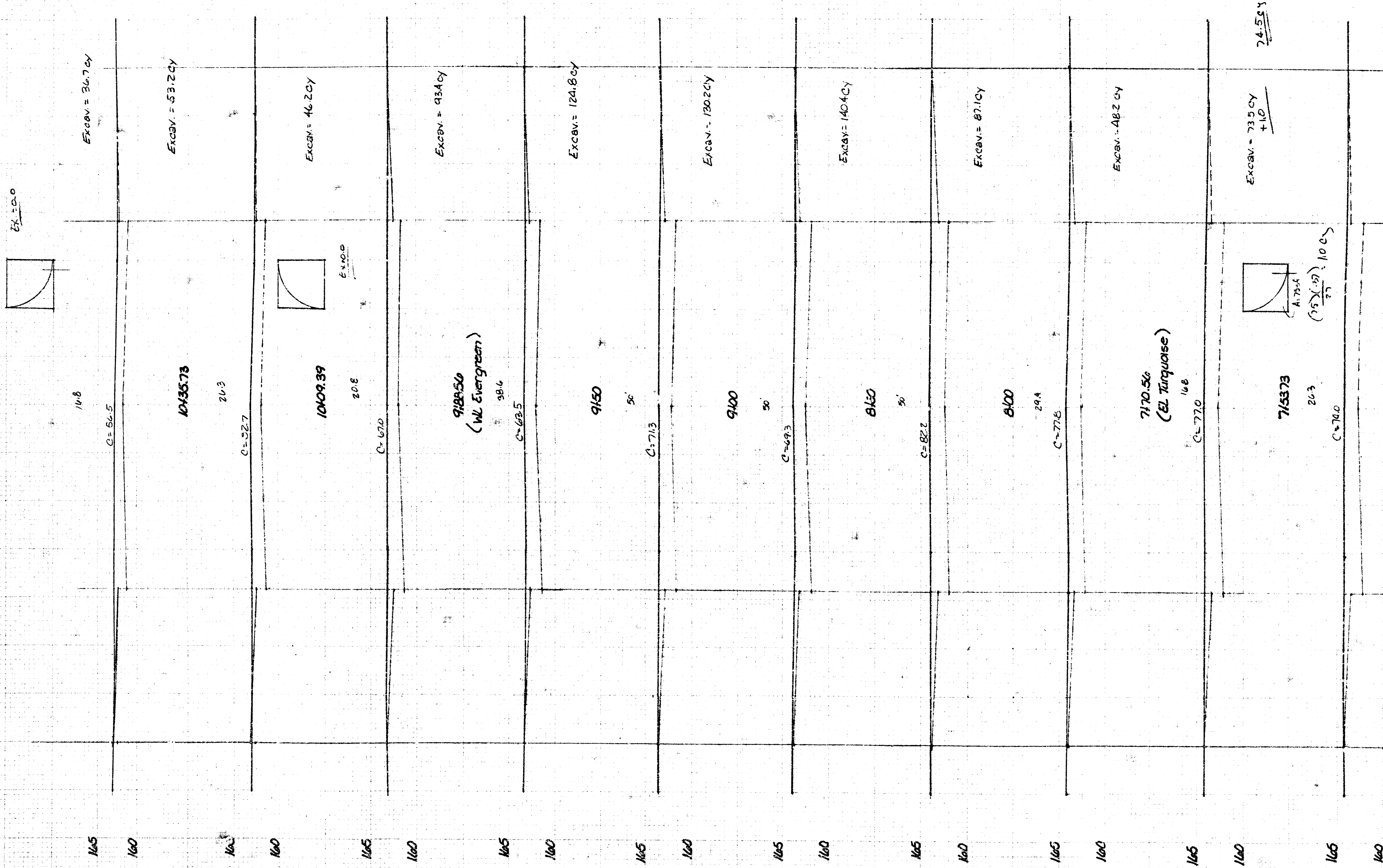


INTERSECTION QUANTITIES	
S.Y.	Concrete Pavement
569 S.Y.	Asphaltic Conc. Pavement (1.6" Bituminous Base)
S.Y.	Bituminous Base
L.F.	Combined Curb & Gutter
20.4	L.F. Inlet Curb
S.F.	Manhole Ramp
S.F.	Manhole
57.7	S.Y. Excavation
C.Y.	Compacted Fill
Lbs.	Reinforcing Steel
1093	S.Y. Manipulation
Tons	Line or Cement
431 S.Y.	V.G. 6" Concrete & 2" Asphaltic Concrete Base

INTERSECTION QUANTITIES	
S.Y.	Concrete Pavement
4790 S.Y.	Asphaltic Conc. Pavement (1.6" Bituminous Base)
134 S.Y.	Bituminous Base
26.8	L.F. Combined Curb & Gutter
20	L.F. Curb & Gutter Removal
1	EA Adjust Manhole
1	EA Barricade Removal
1108	S.Y. Excavation
4.4	C.Y. Compacted Fill
2	EA Inlet Hookup
1895	S.Y. Manipulation
Tons	Line or Cement
S.Y.	V.G. 6" Concrete & 2" Asphaltic Concrete Base



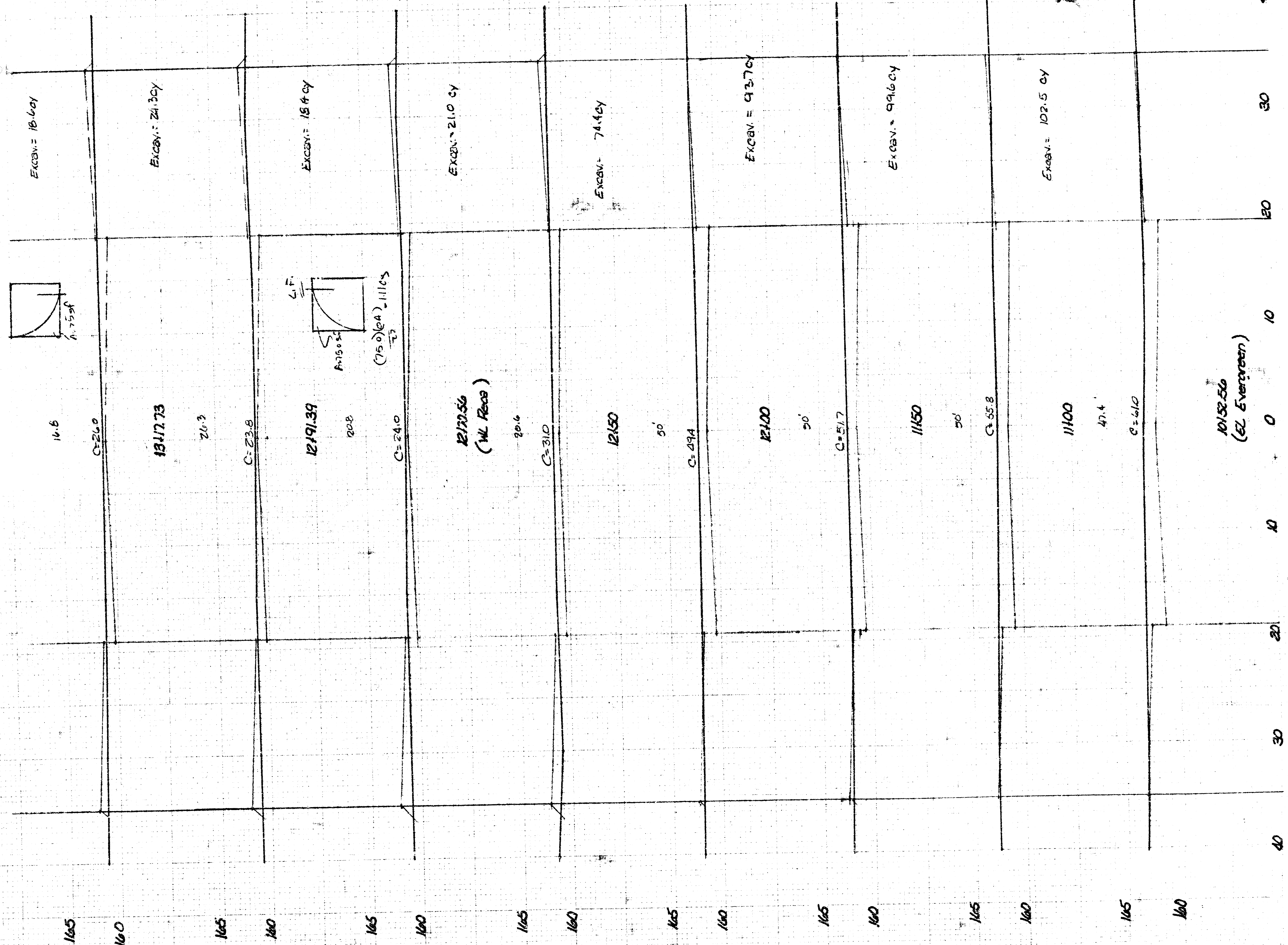
Earthwork (This Sheet)
Excavation 107.6cy



Earthwork (This sheet)
Excavation 834.7 cy

MADE IN U.S.A.
 CO. 8398 (11/11/11)
 NO. 1111-1111-1111-1111

$$\frac{L.F.}{(75)(.375)} = 0.965$$



Earthwork (This Sheet)
 Excavation 452

Earthwork (7705 Feet)
 Excavation 2339 cy

