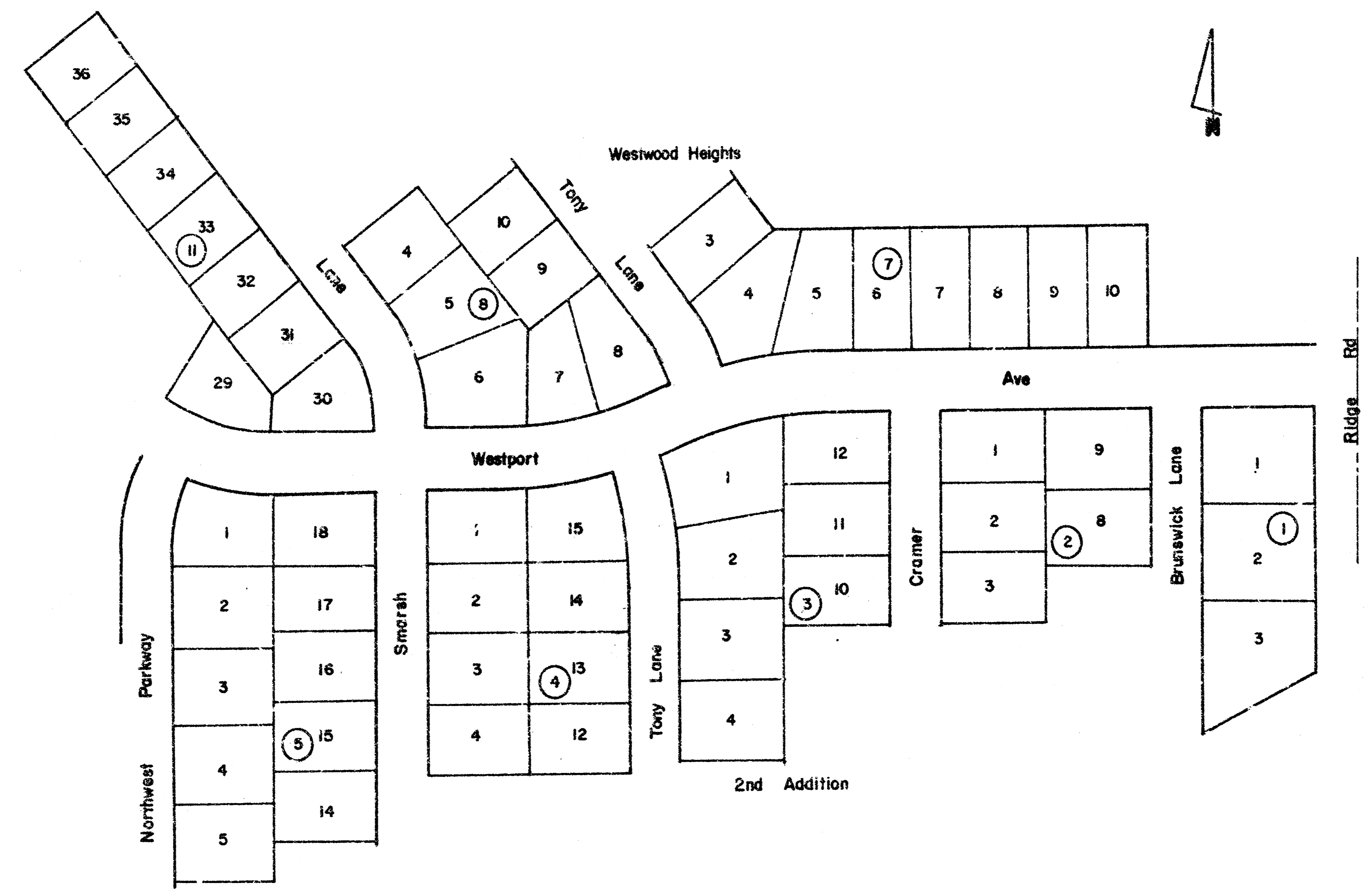
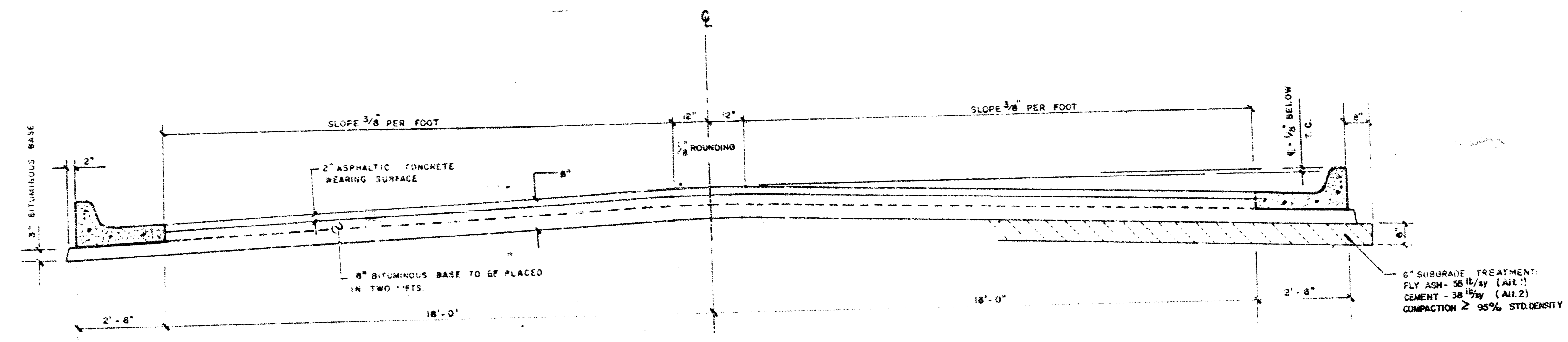


# WESTPORT AVE



PROJECT DESCRIPTION		
WESTPORT AVE - from the Wly corner of lot 29, Block II, Westwood Heights 2nd Addition and the Ely corner of lot 12, Block 15, Westwood Heights 2nd Addition to the West line of Ridge Road.		
PROJECT NUMBER		
472-76-245-80793-000-000-001		
BOOK NO. M3 30	APPROVED BY	DATE
DRAWN BY FLEWING		REVISED
CITY OF WICHITA DEPARTMENT OF ENGINEERING		
DIRECTOR OF ENG. CITY ENGINEER R. W. BRUGSMAN		SCALE 1" = 20'

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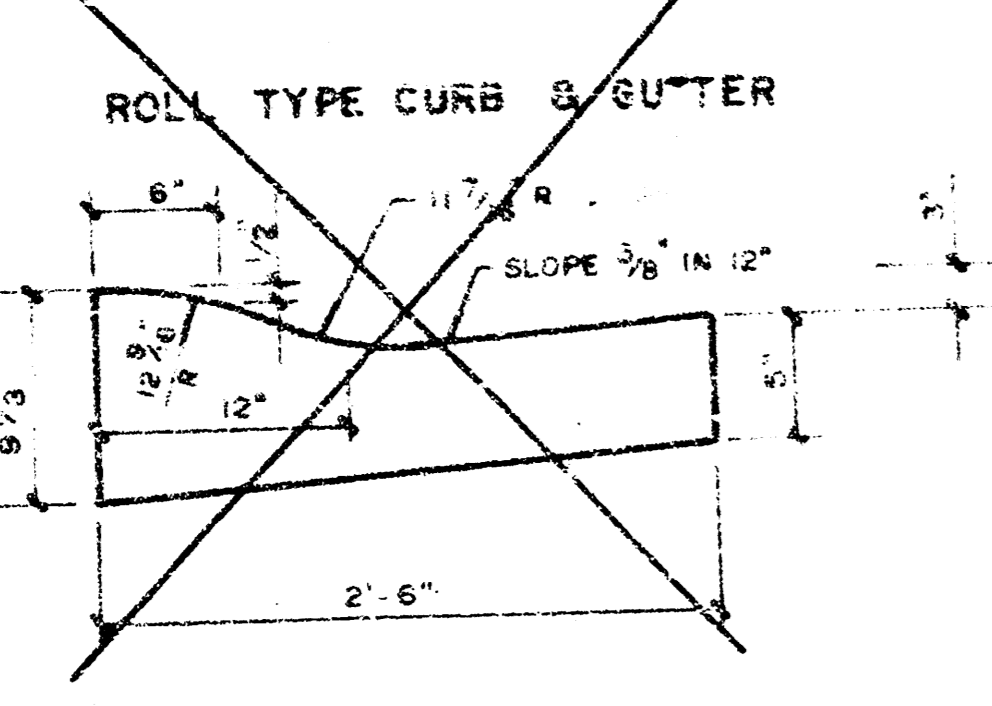
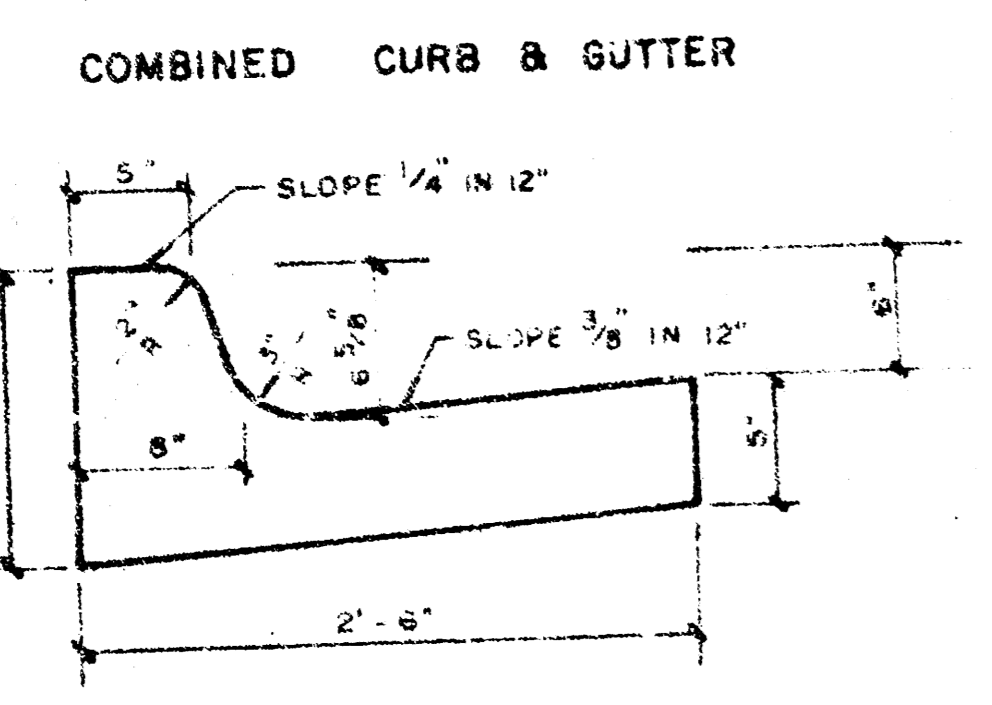
### TYPICAL SECTION

### 37' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

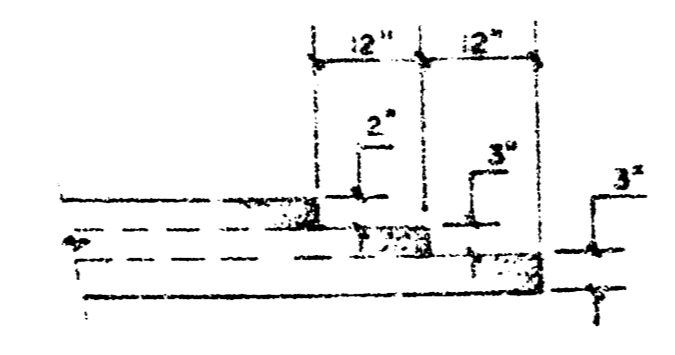
A TACK COAT OF EMULSIFIED ASPH (SS-1H or CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

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.

THE A.C. PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 8" A.C. PAVEMENT (8" BITUMINOUS BASE).  
 THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 3" BITUMINOUS BASE.



### 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 A.C. PAVEMENT.

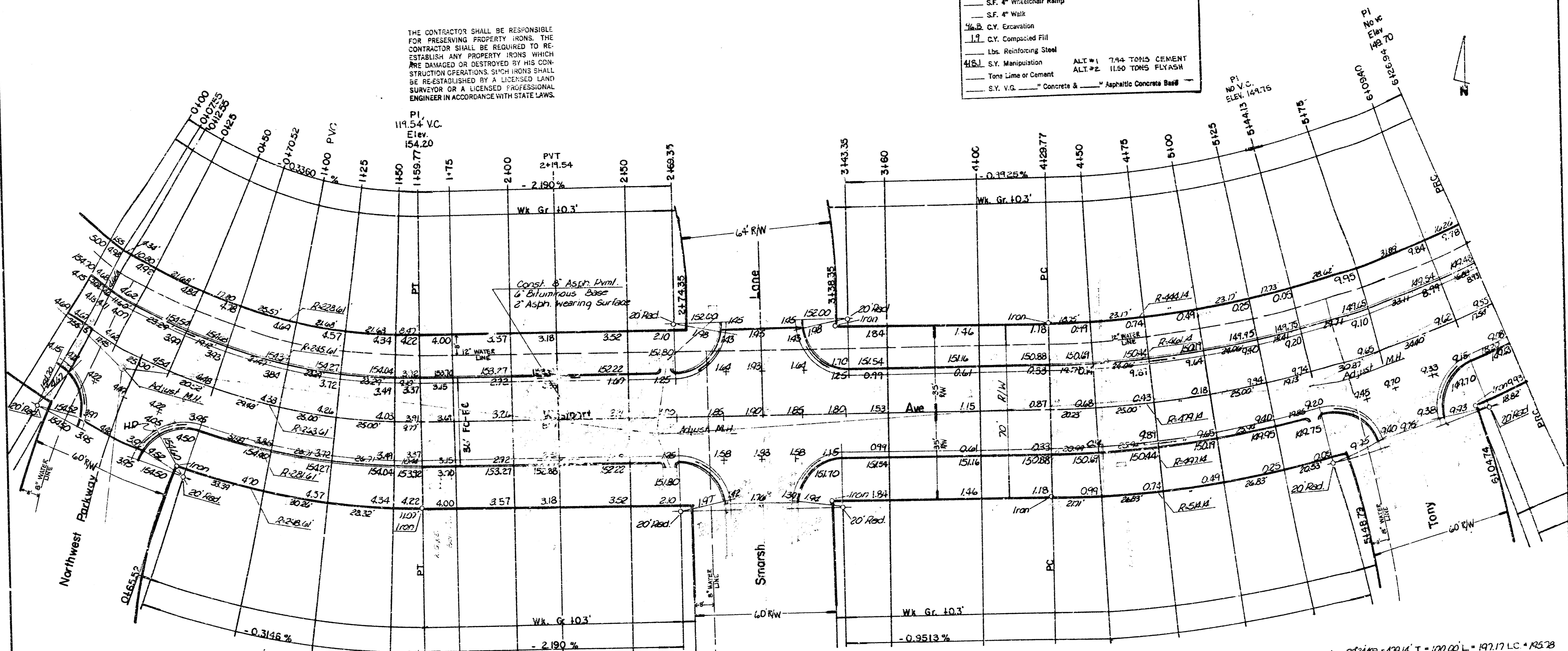
BM 142.807 Ridge Rd & 17th st No., City Std. Disc. 42'N. & 38.5'E of 1/4 sec. cor.  
 BM 149.82 R.R. spike SW face of p.pole on NW cor. of Westport & Ridge Rd.  
 BM 152.02 '□' S. side expansion on S. return of SW cor. Smarsh & Westport  
 BL is @ Westport Ave.

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.

SMARSH INTERSECTION QUANTITIES

— S.Y. —	Concrete Pavement
384.3 S.Y.	Asphaltic Conc. Pavement ( 6" Bituminous Base)
22.6 S.Y.	Bituminous Base
93.6 L.F.	Combined Curb & Gutter
—	L.F. Integral Curb
—	S.F. 4" Wheelchair Ramp
—	S.F. 4" Walk
16.8 C.Y.	Excavation
1.9 C.Y.	Compacted Fill
—	Lbs. Reinforcing Steel
416.1 S.Y.	Manipulation
—	Tons Lime or Cement
—	S.Y. V.G. — Concrete & — Asphaltic Concrete Base

ALT #1 7.94 TONS CEMENT  
 ALT #2 11.50 TONS FLYASH



△ = 344334R = 263.61 T. = 82.42 L. = 159.77 LC. = 157.34

CURVE DATA BASED ON  $\frac{1}{2}$  RAD. Δ = 172.87

STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
0100				0°00'00"
107.55	755	4.81	8.21	0°49'14"
012.55	5.00	4.51	5.49	0°32'36"
0125	1245	11.23	13.28	1°21'11"
0150	2500	22.53	27.46	2°43'01"
0170	2052	18.49	22.54	2°13'48"
1100	2948	26.56	32.37	3°12'13"
1125	2500	22.53	27.46	2°43'01"
1150	2500	22.53	27.46	2°43'01"
1159.77	9.77	8.81	10.73	1°03'42"

Defl.  $\frac{172.87}{172.87} = 1.0000$

PI 119.54' VC Elev. 154.20 N.W. PARKWAY INTERSECTION QUANTITIES

— S.Y. —	Concrete Pavement
170.7 S.Y.	Asphaltic Conc. Pavement ( 6" Bituminous Base)
14.5 S.Y.	Bituminous Base
46.8 L.F.	Combined Curb & Gutter
—	L.F. Integral Curb
—	S.F. 4" Wheelchair Ramp
—	S.F. 4" Walk
1 EA	Adjust Manhole
434 C.Y.	Excavation
0.8 C.Y.	Compacted Fill
—	Lbs. Reinforcing Steel
107.6 S.Y.	Manipulation
—	Tons Lime or Cement
—	S.Y. V.G. — Concrete & — Asphaltic Concrete Base

ALT #1 3.10 TONS CEMENT  
 ALT #2 5.16 TONS FLYASH

Earthwork

Excavation	1501.9 CY	COMPACTED FILL	28.9 CY
110%	150.2 CY	10%	2.9 CY
Total	1652.1 CY	TOTAL	31.8 CY

Manipulation 6489.0 SY

TONY INTERSECTION QUANTITIES

— S.Y. —	Concrete Pavement
176.4 S.Y.	Asphaltic Conc. Pavement ( 6" Bituminous Base)
14.3 S.Y.	Bituminous Base
46.8 L.F.	Combined Curb & Gutter
—	L.F. Integral Curb
—	S.F. 4" Wheelchair Ramp
—	S.F. 4" Walk
44.3 C.Y.	Excavation
0.9 C.Y.	Compacted Fill
—	Lbs. Reinforcing Steel
193.4 S.Y.	Manipulation
—	Tons Lime or Cement
—	S.Y. V.G. — Concrete & — Asphaltic Concrete Base

ALT #1 3.10 TONS CEMENT  
 ALT #2 5.32 TONS FLYASH

△ = 28344R = 479.14 T. = 100.00 L. = 197.17 LC. = 195.78

CURVE DATA BASED ON  $\frac{1}{2}$  RAD. Δ = 117.22

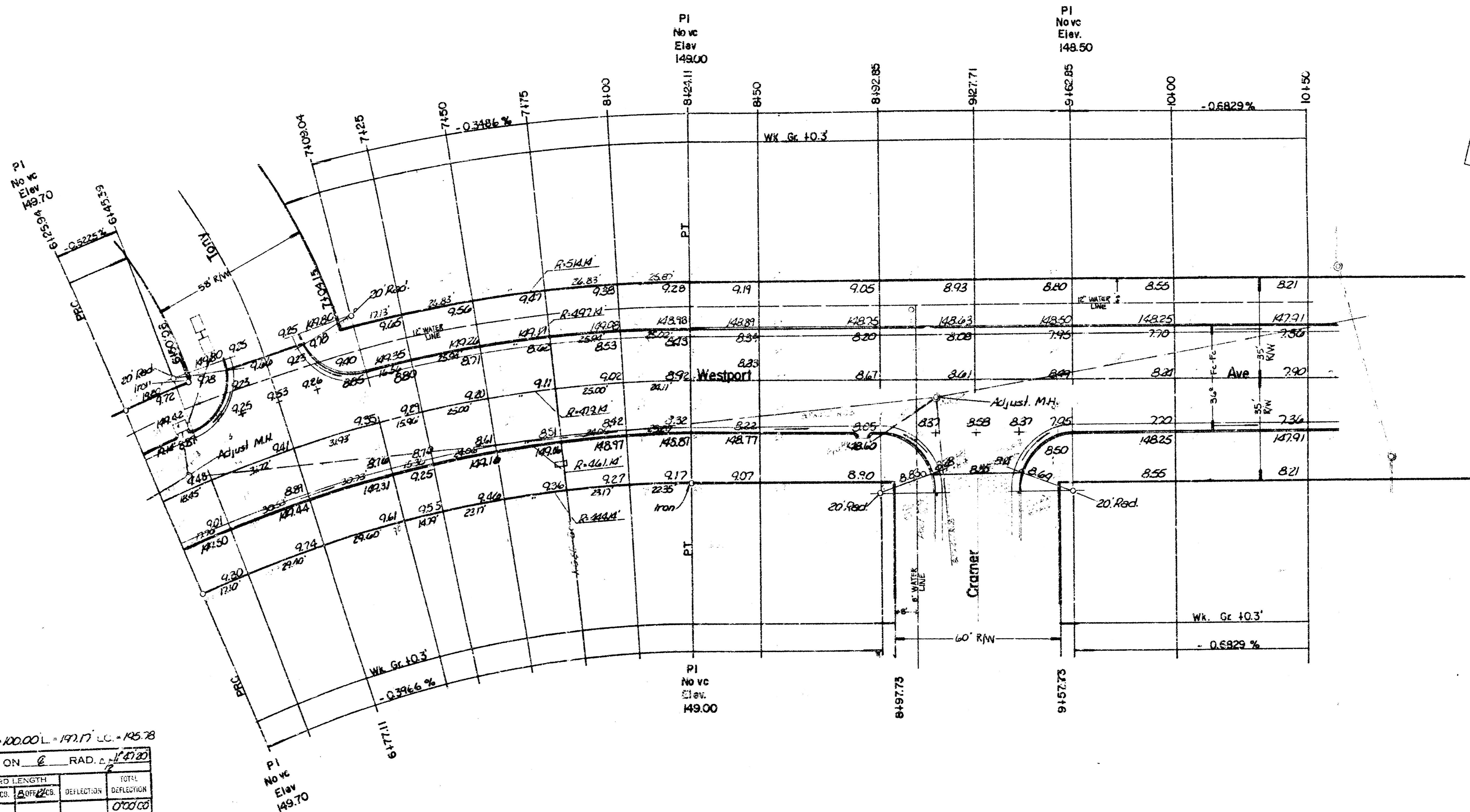
STA.	ARC.	CHORD LENGTH	DEFLECTION	TOTAL DEFLECTION
4159.77				0°00'00"
4150	2023	19.13	21.33	1°12'34"
175	2500	23.64	26.36	1°29'41"
5100				2°41'56"
125	2500	23.64	26.36	1°29'41"
144.13	19.13	18.09	20.17	1°08'38"
175	3087	29.20	32.53	1°50'45"
6109.40	31.80	32.33	36.27	2°03'25"
6126.94	17.54	16.59	18.49	1°02'55"

Defl.  $\frac{117.22}{117.22} = 1.0000$

CONTRACTOR TO BID ONLY 1 SUBGRADE TREATMENT ALTERNATE.  
 ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED FOR CONSTRUCTION ON THIS PROJECT.  
 NOTE: NO MORE THAN 25'-20' DRIVES TO BE CONSTRUCTED ON THIS PROJECT.

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Δ = 23340R - 47914 T - 100.00 L - 197.17 LC - 195.78

CURVE DATA BASED ON  $\frac{L}{R}$  RAD. C. = 1/100

STA.	ARC.	CHORD LENGTH		DEFLECTION	
		BLUFF 2ES	ADJ. 2ES	DEFLECTION	TOTAL DEFLECTION
61426.94				1'06.11"	1'06.11"
61453.8	18.45'	19.45'	17.45'	1'53.48"	2'59.59"
6177.11	31.72'	33.66'	30.00'	1'54.33"	4'53.92"
7109.02	31.93'	33.66'	30.20'	0'57.15"	5'51.07"
125	15.46'	16.83'	13.09'	1'29.41"	7'21.28"
150	25.00'	26.36'	23.64'	1'26.30"	8'51.09"
175					
8100	25.00'	26.36'	23.64'	1'26.30"	10'20.50"
121.11	24.11'	25.42'	22.80'	1'26.30"	11'47.20"

Defl.  $\frac{100}{R} = 3.587413669$

TONY INTERSECTION QUANTITIES

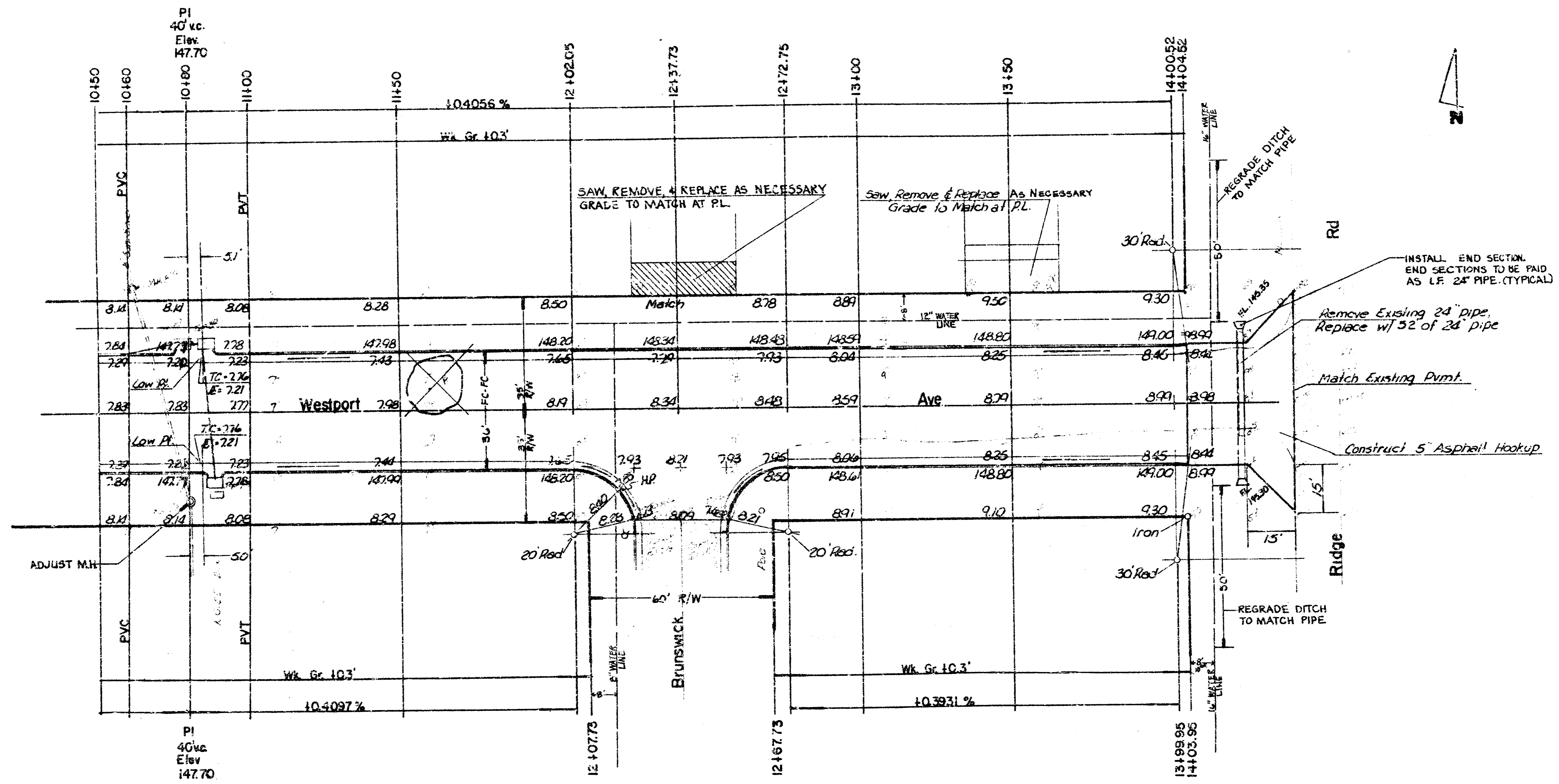
- S.Y. Concrete Pavement
- 468.9 S.Y. Asphaltic Conc. Pavement (6" Bituminous Base)
- 14.3 S.Y. Bituminous Base
- 46.8 L.F. Combined Curb & Gutter
- L.F. Integral Curb
- S.F. 4" Wheelchair Ramp
- S.F. 4" Walk
- 43.0 C.Y. Excavation
- 0.8 C.Y. Compacted Fill
- Lbs. Reinforcing Steel
- 185.8 S.Y. Manipulation ALT. #1 3.53 TONS CEMENT ALT. #2 5.11 TONS FLY ASH
- Tons Lime or Cement
- S.Y. V.G. Concrete & Asphaltic Concrete Base

CRAMER INTERSECTION QUANTITIES

- S.Y. Concrete Pavement
- 164.4 S.Y. Asphaltic Conc. Pavement (6" Bituminous Base)
- 14.3 S.Y. Bituminous Base
- 46.8 L.F. Combined Curb & Gutter
- L.F. Integral Curb
- S.F. 4" Wheelchair Ramp
- 1 E.A. Adjust. Manhole
- 4.6 C.Y. Excavation
- 0.9 C.Y. Compacted Fill
- Lbs. Reinforcing Steel
- 204.9 S.Y. Manipulation ALT. #1 3.82 TONS CEMENT ALT. #2 5.54 TONS FLY ASH
- Tons Lime or Cement
- S.Y. V.G. Concrete & Asphaltic Concrete Base

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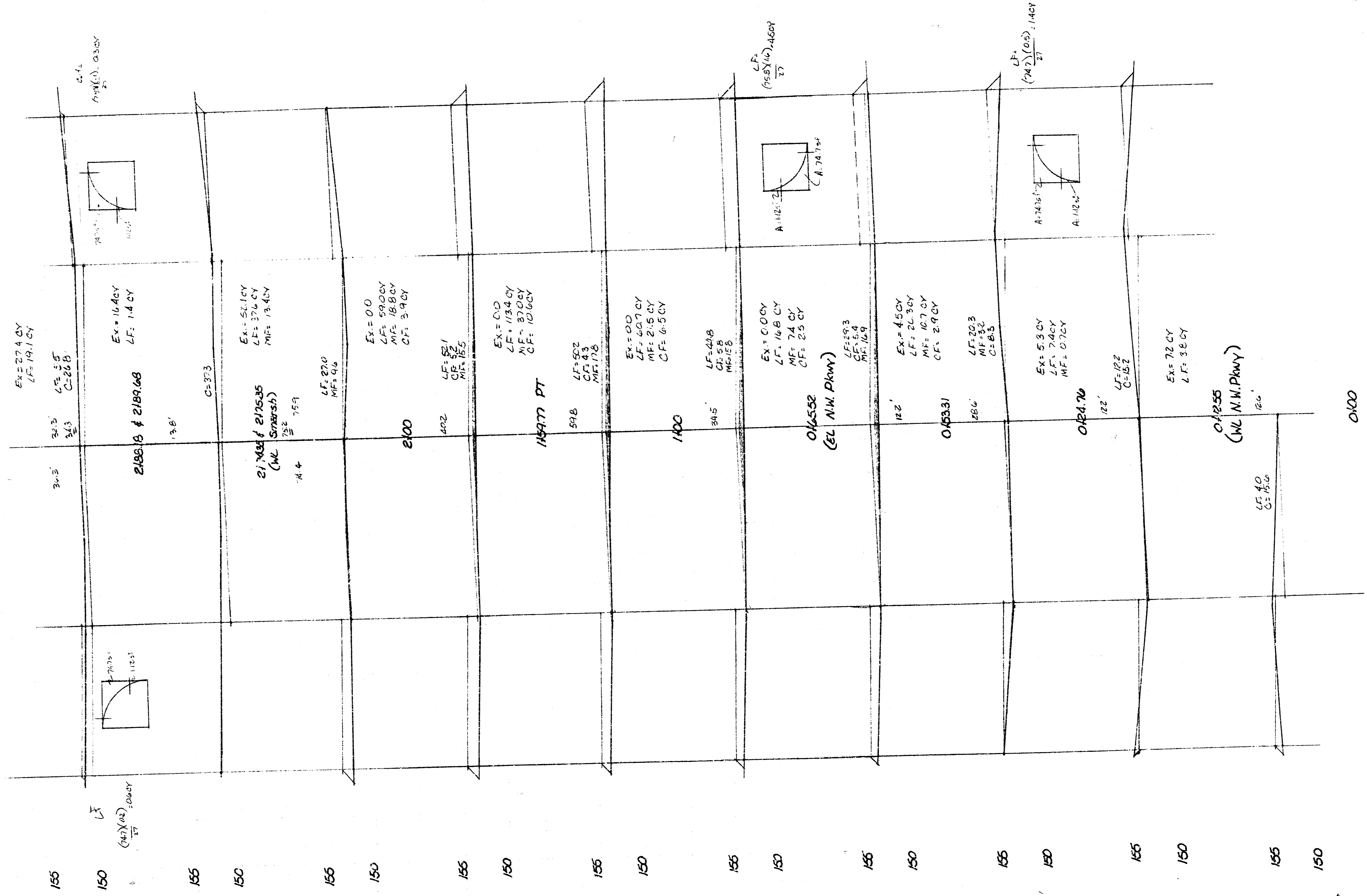
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**BRUNSWICK  
INTERSECTION QUANTITIES**

184.4	S.Y.	Concrete Pavement	
14.3	S.Y.	Asphaltic Conc. Pavement (.6" Bituminous Base)	
46.2	S.Y.	Bituminous Base	
	LF.	Combined Curb & Gutter	
	LF.	Integral Curb	
	S.F.	4" Wheelchair Ramp	
	S.F.	4" W. x	
46.6	C.Y.	Excavation	
0.1	C.Y.	Compacted Fill	
	Lbs.	Reinforcing Steel	
201.3	S.Y.	Manipulation	ALT. #1 3.82 TONS CEMENT
	Tons	Line of Cement	ALT. #2 5.54 TONS FLYASH
	S.Y.	W. x	Concrete & Asphaltic Concrete Base

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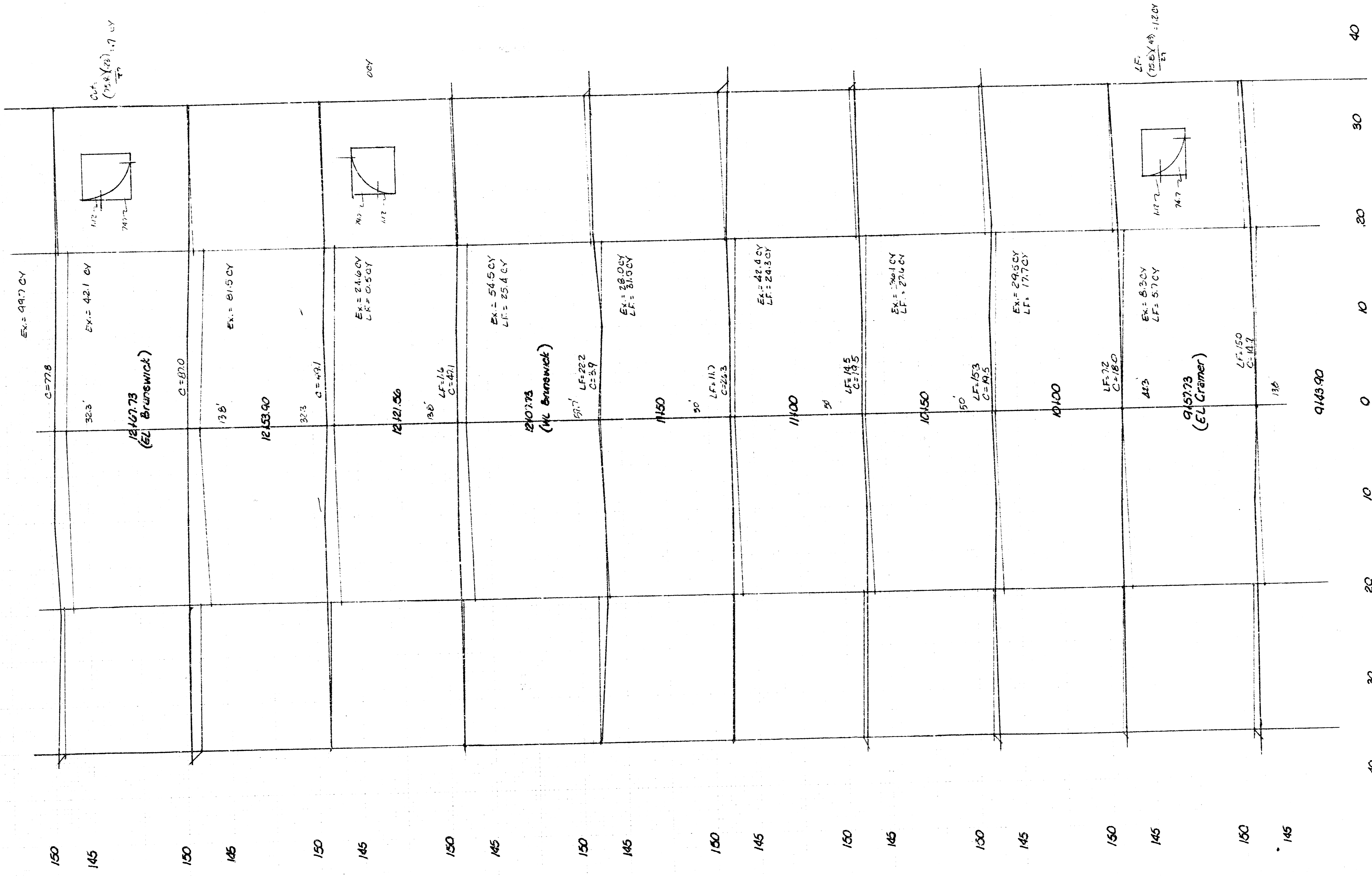


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 COMB. FILL 26.40  
 LOOSE FILL 35.14

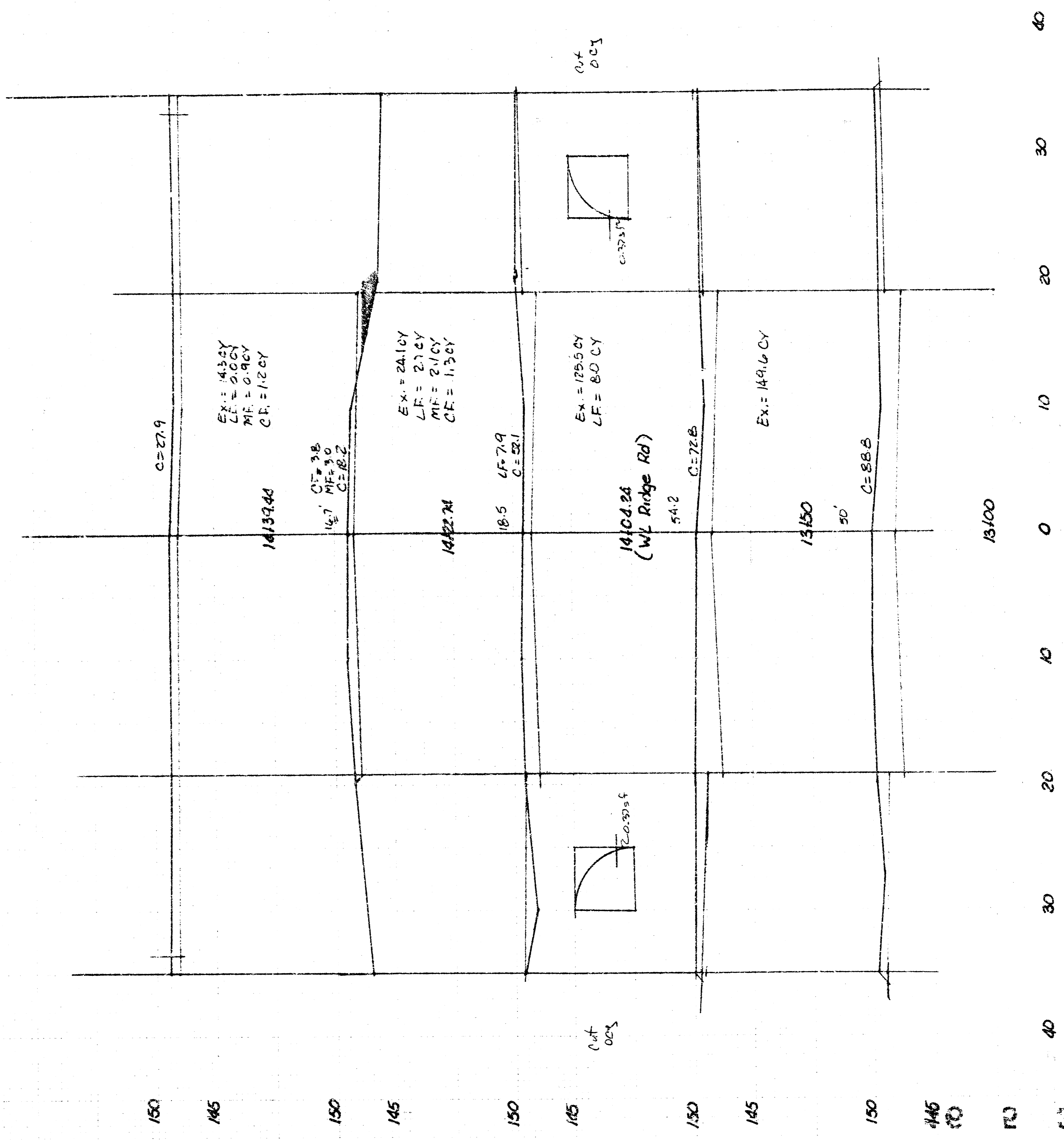
40  
 30  
 20  
 10  
 0  
 10  
 20  
 30  
 40  
 6/10  
 Earthwork (Total)  
 Excavation 1501.4 CY  
 COMBATED FILL 26.4 CY







Earthwork (This Sheet)  
 Exc. 447.4 CY  
 Vol. Full 135.7



Estimate (This Sheet)

Exc. 313.5 CY  
Loose Fill 10.7  
Compacted Fill 2.5