

HOLLAND LANE E.L. SMARSH LANE TO N.L. WESTWOOD HEIGHTS SECOND ADDITION.

TONY LANE N.L. WESTPORT AVE TO E.L. HOLLAND LN.

BITTERSWEET LANE E.L. TONY LANE TO E.L. LOT 1, BLK. 7, WESTWOOD HEIGHTS SECOND ADDITION.

SMARSH LANE N.L. WESTPORT AVE TO N.L. WESTWOOD HEIGHTS SECOND ADDITION.

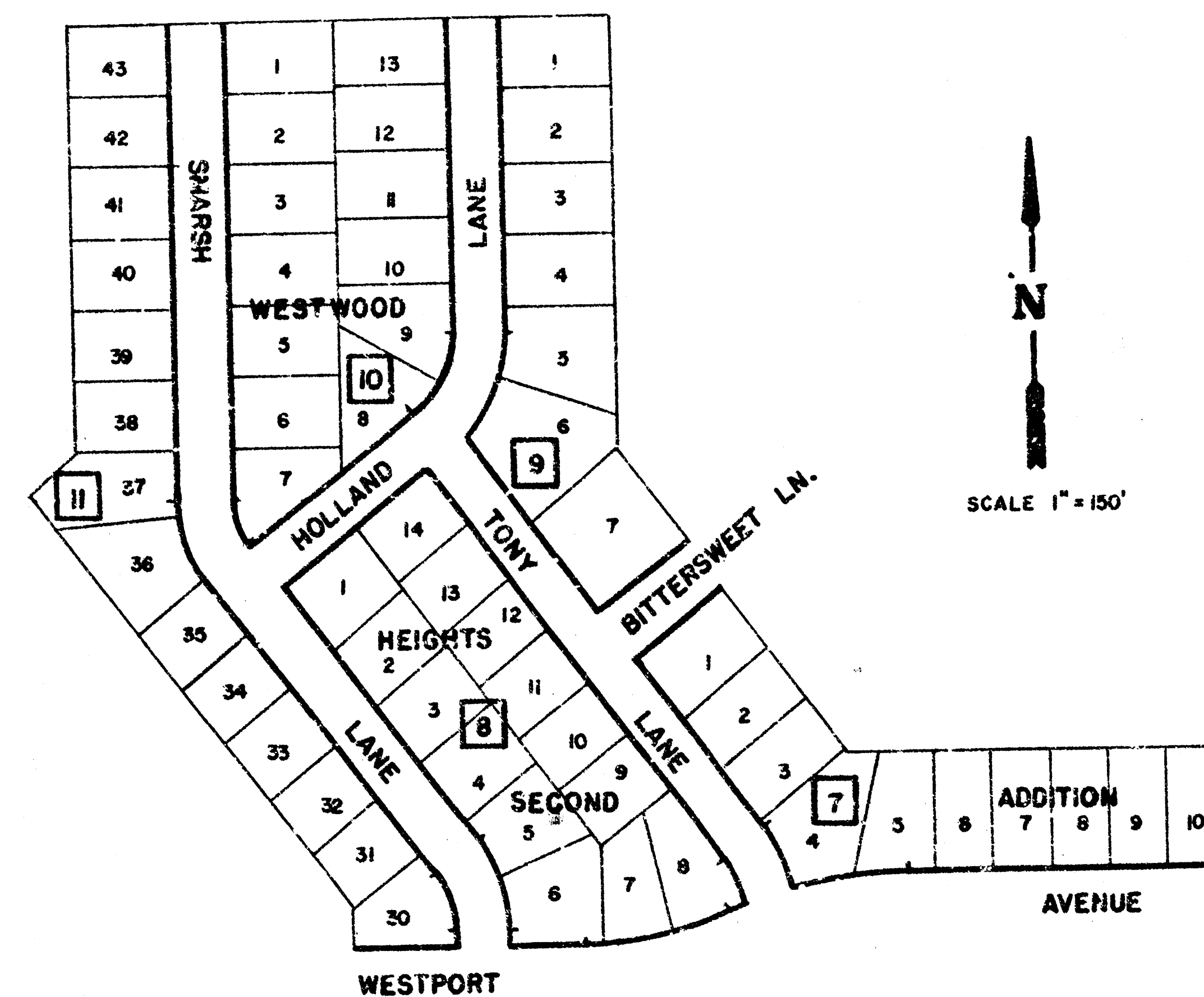
PROJECT NO. 472-76-245-80799-000-000-001

*Resolution amended 2-9-82 (in Clerk's Office)
Fractional*

Sketch - 6-81

INDEX OF SHEETS

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1	COVER SHEET
2	TYPICAL 29' PAVEMENT DETAILS
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12	CROSS SECTIONS TONY LANE
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N
SCALE 1" = 150'

ROAD
RIDGE

GENERAL NOTES

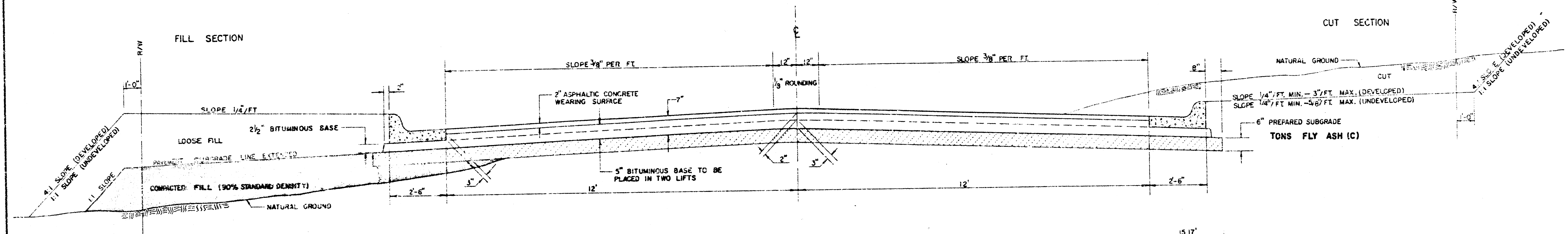
- (1) WIDENED GUTTER SECTION OF COMBINED CURB AND GUTTER AT INTERSECTIONS WILL NOT BE PAID FOR DIRECTLY, AND THIS COST SHALL BE CONSIDERED AS SUBSIDIARY TO THE OTHER PAY ITEMS OF WORK.
- (2) THE REMOVAL OF EXCESS PAVEMENT AND/OR CURB AND GUTTER PLACED DURING THE CONSTRUCTION OF WESTPORT AVENUE SHALL BE CONSIDERED INCIDENTAL TO EXCAVATION.

M.E. LINDEBAK - CITY ENGINEER
CITY OF WICHITA, KANSAS

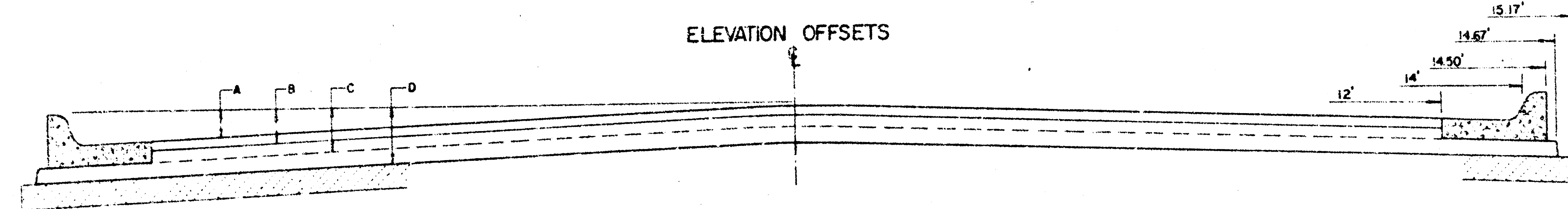


TYPICAL 29' PAVEMENT DETAILS

TRANSVERSE SECTION

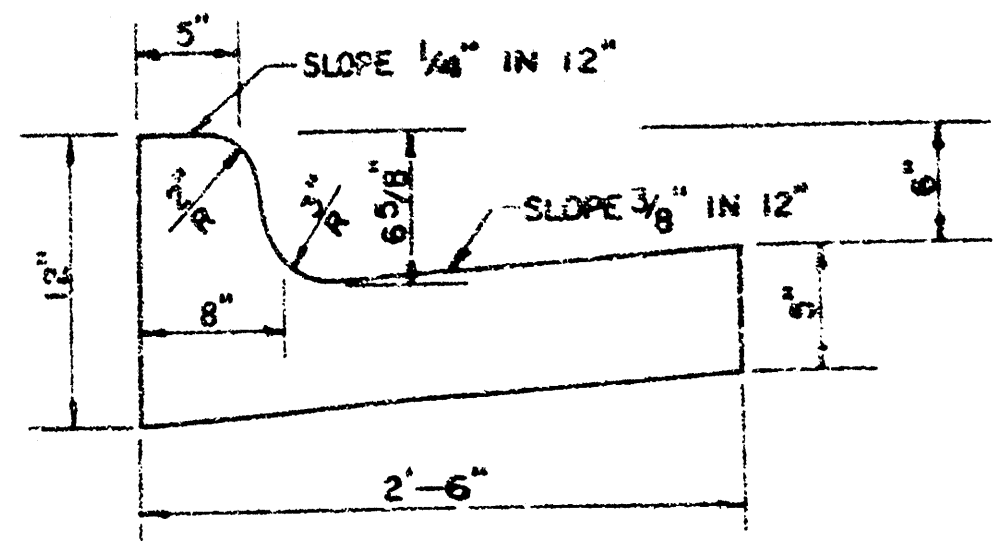


ELEVATION OFFSETS

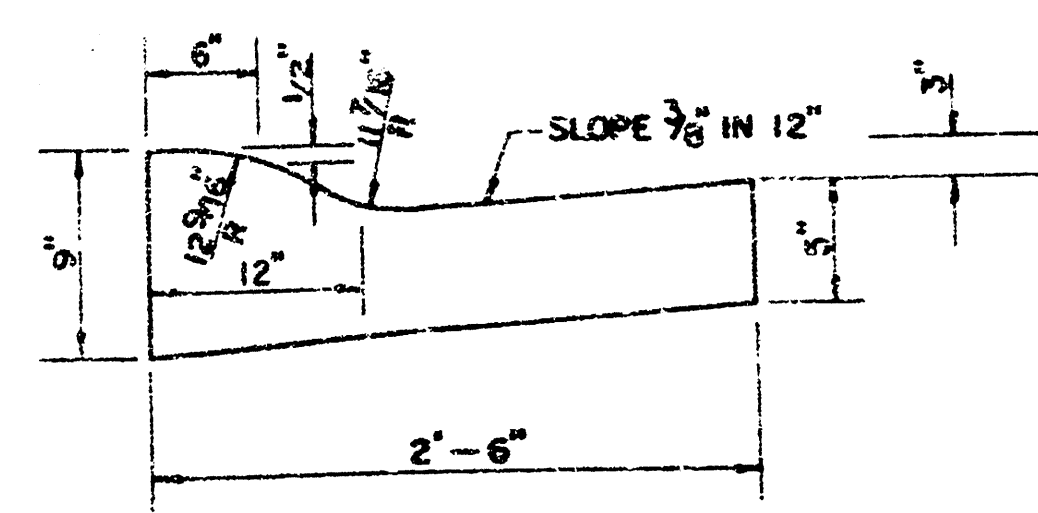


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	14.67'	15.17'
A. TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—	—
B. TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C. TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.47	0.52	0.60	0.68	0.71	0.75	0.83	0.90	0.98	1.00	1.01	—
D. TOP OF CURBS TO TOP OF SUBGRADE	0.72	0.77	0.84	0.91	0.94	0.98	1.05	1.12	1.19	1.21	1.21	1.23

COMBINED CURB & GUTTER



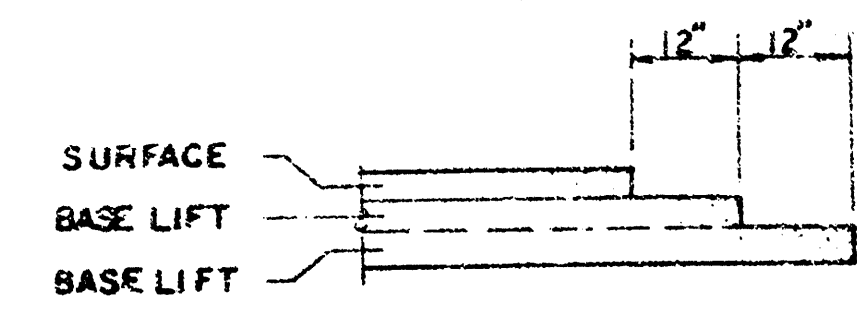
ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (50-1H OR 65-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFT AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSAL AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENTS JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).

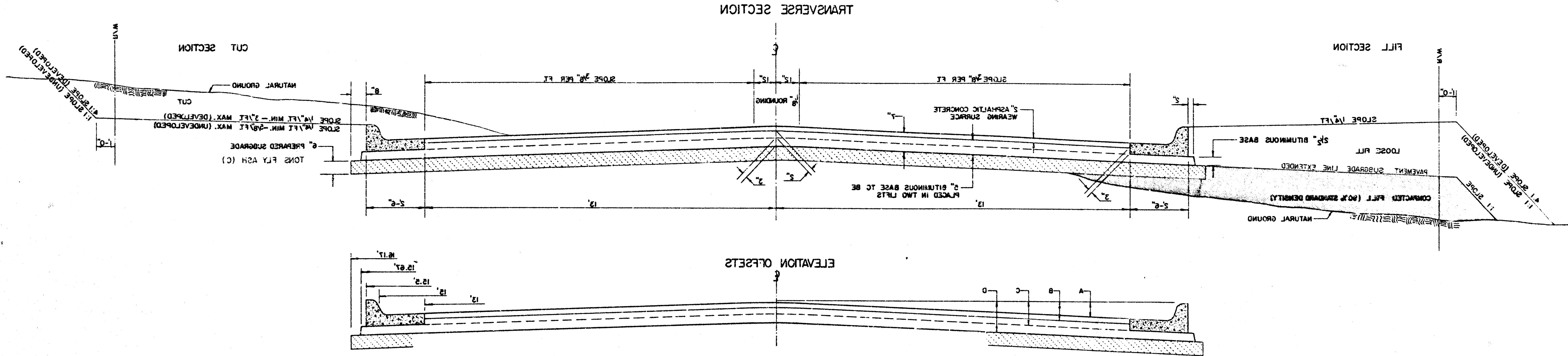
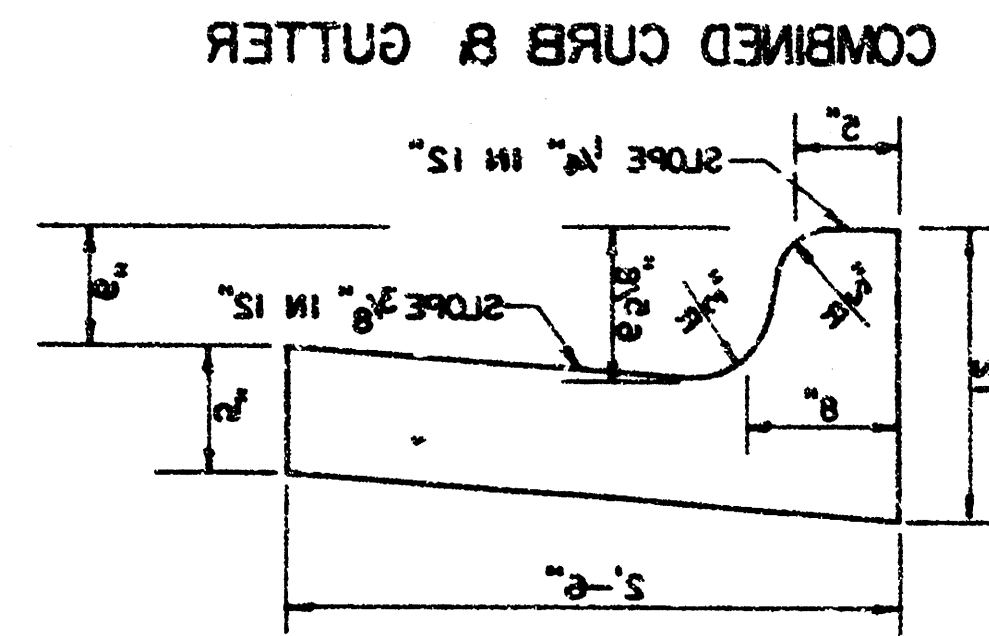
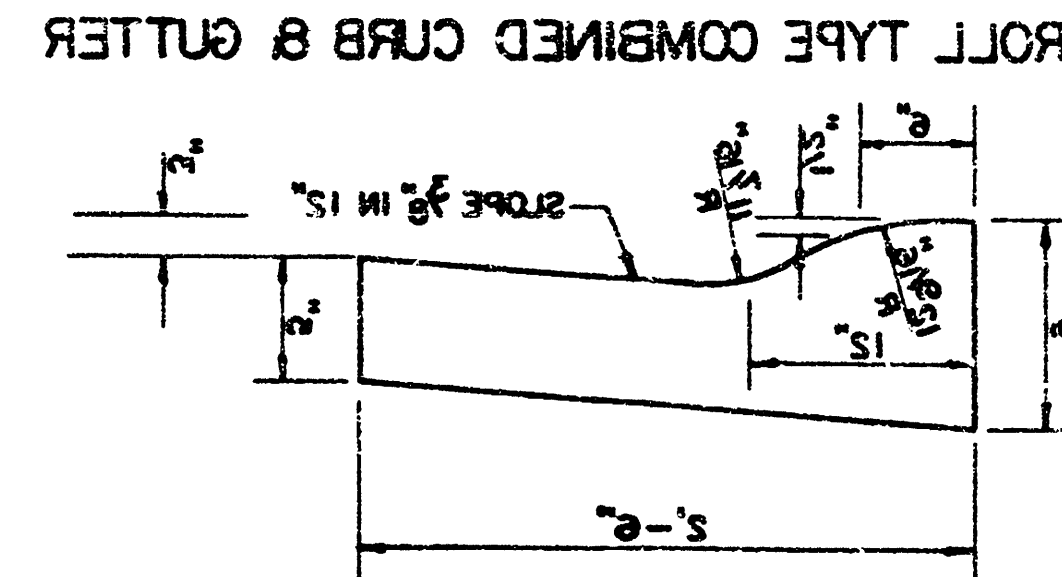
7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER
472-76-245-80799 - 000-000-001 2/4

TRANSVERSE CONSTRUCTION JOINTS
TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN
EXISTING PAVEMENT BASE PAVEMENT AT LOCATIONS WHERE PAVEMENT JOINTS
WILL BE ASSOCIATED WITH THE CONSTRUCTION OF THE TRANS-
VERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE
YARDS 2" ASPHALTIC CONCRETE (2" BITUMINOUS BASE).



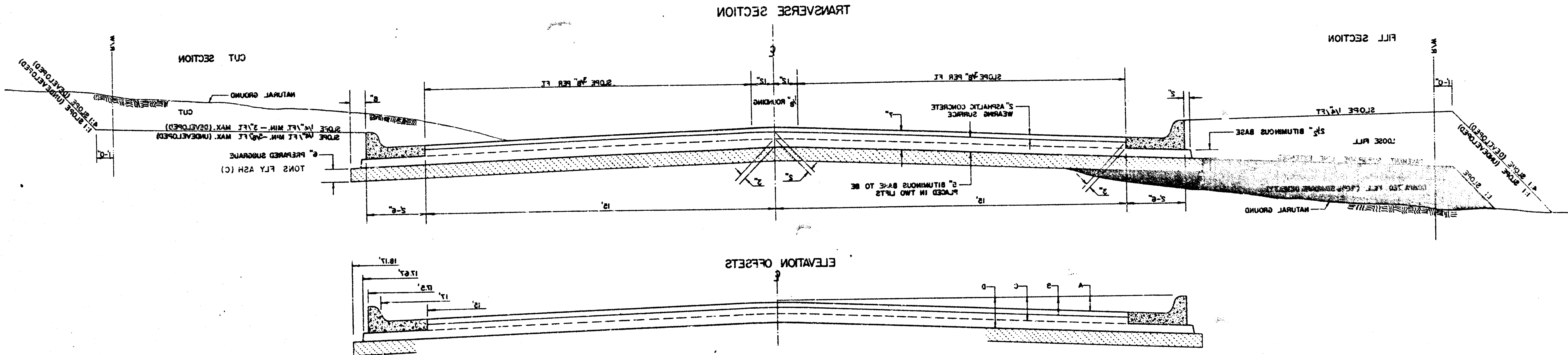
- GENERAL NOTES
- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2" ASPHALTIC CONCRETE (2" BITUMINOUS BASE).
 - 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5" BITUMINOUS BASE.
 - 3) A TACK COAT OF EMULSIFIED ASPHALT (20-14 OR 22-14) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.02 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
 - 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A RAYMOND MACHINE HAVING AUTOMATIC CONTROLS FOR LIFT AND GRADE.
 - 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM 10'-0" TAKE OF ONE LIFT JOINTS IN PRECEDING LIFTS AND PLACED 20' THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
 - 6) CONTINUATION TO BID ONLY ONE SUBGRADE TREATMENT ALTERNATE WHEN AFTER-PAVING IS PROVIDED IN THE PROPOSAL AND CONTRACT THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

DISTANCE FROM CENTERLINE (L.F. & RT.)												
0'	5'	10'	15'	20'	25'	30'	35'	40'	45'	50'	55'	60'
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91
0.10	0.14	0.21	0.28	0.35	0.42	0.49	0.56	0.63	0.70	0.77	0.84	0.91



TYPICAL 3' PAVEMENT DETAILS

TYPICAL 35' PAVEMENT DETAILS



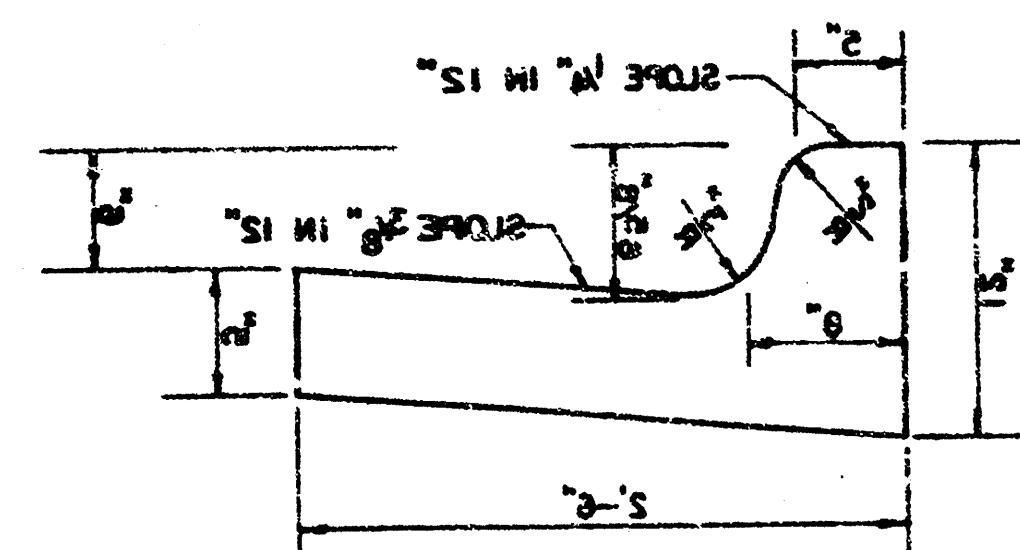
ELEVATION OFFSETS

	0'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'
0. TOP OF CURB TO TOP OF SURFACE LIFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. TOP OF CURB TO TOP OF UPPER BASE LIFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2. TOP OF CURB TO TOP OF LOWER BASE LIFT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3. TOP OF CURB TO TOP OF SUBGRADE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

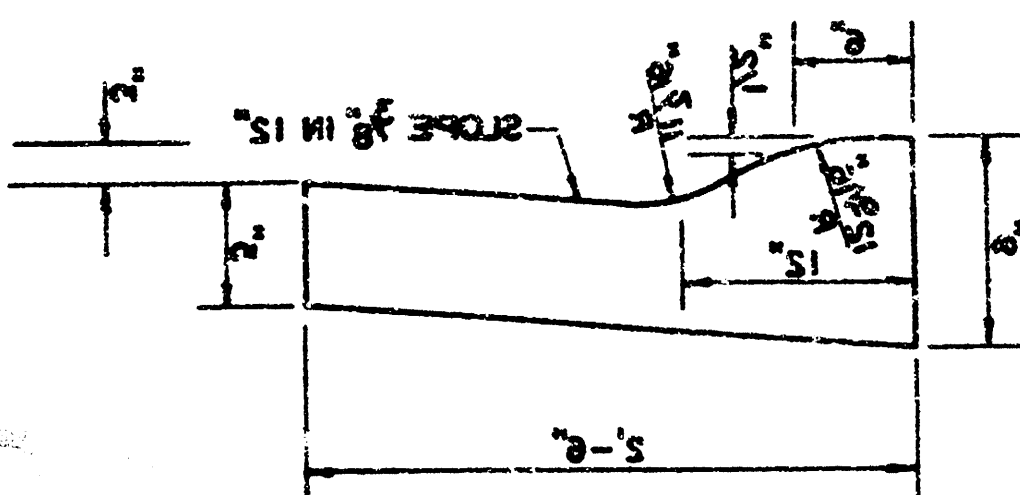
GENERAL NOTES

- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF ASPHALTIC CONCRETE (2" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2" 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (20-30) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.03 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.
- 4) BITUMINOUS BASE AND ASPHALTIC CONCRETE REMAINING SURFACE SHALL BE PLACED WITH A RANDOM WALKING MACHINE AUTOMATIC CONTROLS FOR LINE AND GRADE.
- 5) CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE FOOT JOINTS IN PRECEDING LIFT AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.
- 6) CONTRACTOR TO BID ONLY ONE SHOULDER TREATMENT ALTERNATE WHEN ALTERNATES ARE PROVIDED IN THE PROPOSED AND CONTRACT. THE ALTERNATE CHOSEN BY THE SUCCESSFUL BIDDER SHALL BE USED IN CONSTRUCTING THIS PROJECT.

COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



TRANSVERSE CONSTRUCTION JOINTS

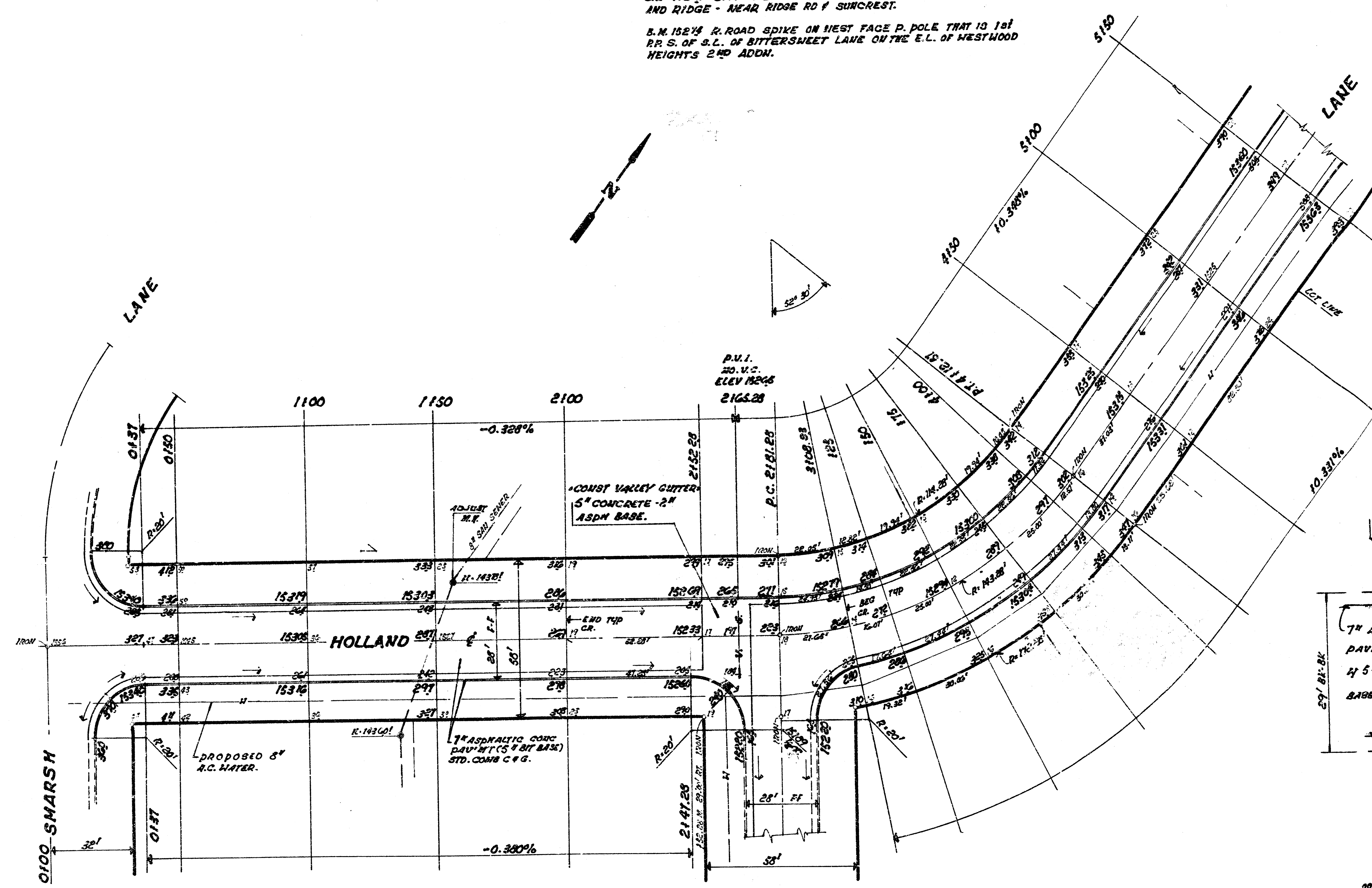


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF ASPHALTIC CONCRETE (2" BITUMINOUS BASE).

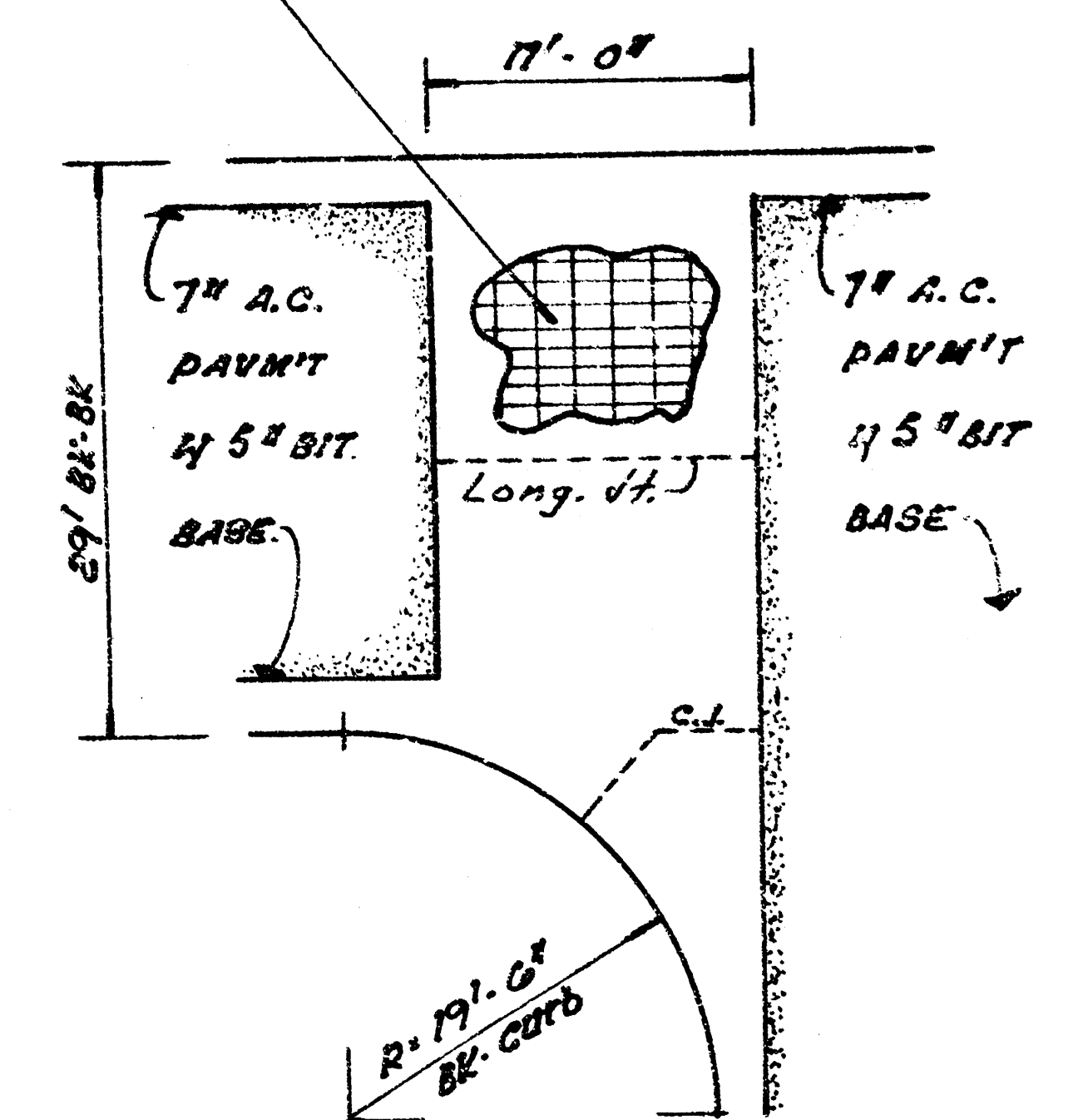
CITY OF WICHITA, KANSAS
PAVEMENT WITH 2 INCH BITUMINOUS BASE
1 INCH RESIDENTIAL ASPHALTIC CONCRETE

415-76-545-80399-000-000-001

B.M. 14281 CITY STD. 42' N. & 36.5' E. OF 1/4 SEC. COR IRON AT 77' N. AND RIDGE - NEAR RIDGE RD & SUNCREST.
 B.M. 15274 R. ROAD SPIKE ON WEST FACE P. POLE THAT IS 1st RR S. OF S.L. OF BITTERSWEET LANE ON THE E.L. OF WESTWOOD HEIGHTS 2ND ADDN.



#4 GG. 6\"/>



VALLEY GUTTER DETAIL

INTERSECTION QUANTITIES

123.5 S.Y.	Concrete Pavement
9.7 S.Y.	7\"/>
32.0 S.Y.	2 1/2\"/>
26.4 S.Y.	Concrete Curb & Gutter
105.8 S.Y.	Concrete
41.9 S.Y.	5\"/>

EXCAVATION
 330.1 CU YDS
 110% 33.6
 371.9 CU YDS

COMP FILL
 31.4 CU YDS
 110% 3.1
 34.5 CU YDS

NO MORE THAN 15'-20' DRIVES TO BE CONSTRUCTED.

2530 SQ YDS MANIPULATION.

CURVE DATA BASED ON RADIUS 143.23' Δ 52° 30'

STATION	ARC	CHORD	LENGTH	DEFLECTION	TOTAL DEFLECTION
RC 2101.28					0° 00' 00"
3108.93	27.43'	23.37'	31.85'	5° 31' 42"	5° 31' 42"
125	16.07'	13.60'	18.53'	3° 12' 41"	8° 44' 29"
120	25.00'	21.13'	28.80'	4° 39' 55"	13° 24' 24"
175					18° 24' 19"
4100	25.00'	21.13'	28.80'	4° 39' 55"	23° 44' 14"
RT 4112.57	12.57'	10.64'	14.50'	2° 30' 46"	26° 15' 00"

PROJECT DESCRIPTION
HOLLAND LANE
 E.L. SHARSH LANE TO N.L. WESTWOOD HEIGHTS 2ND ADDITION.

PROJECT NUMBER
 472-76-245-80799-000-OCO-001

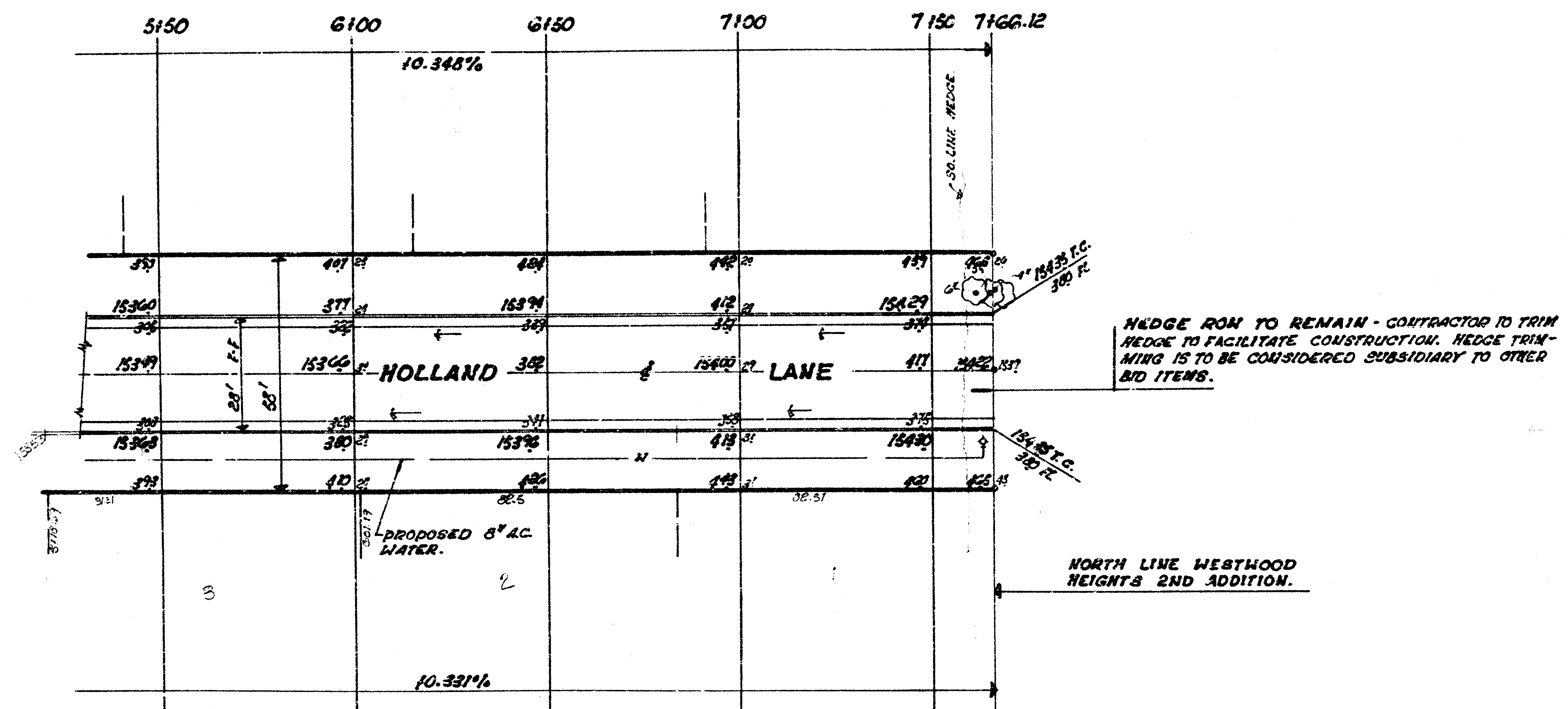
BOOK NO. JPC #21
 DRAWN BY

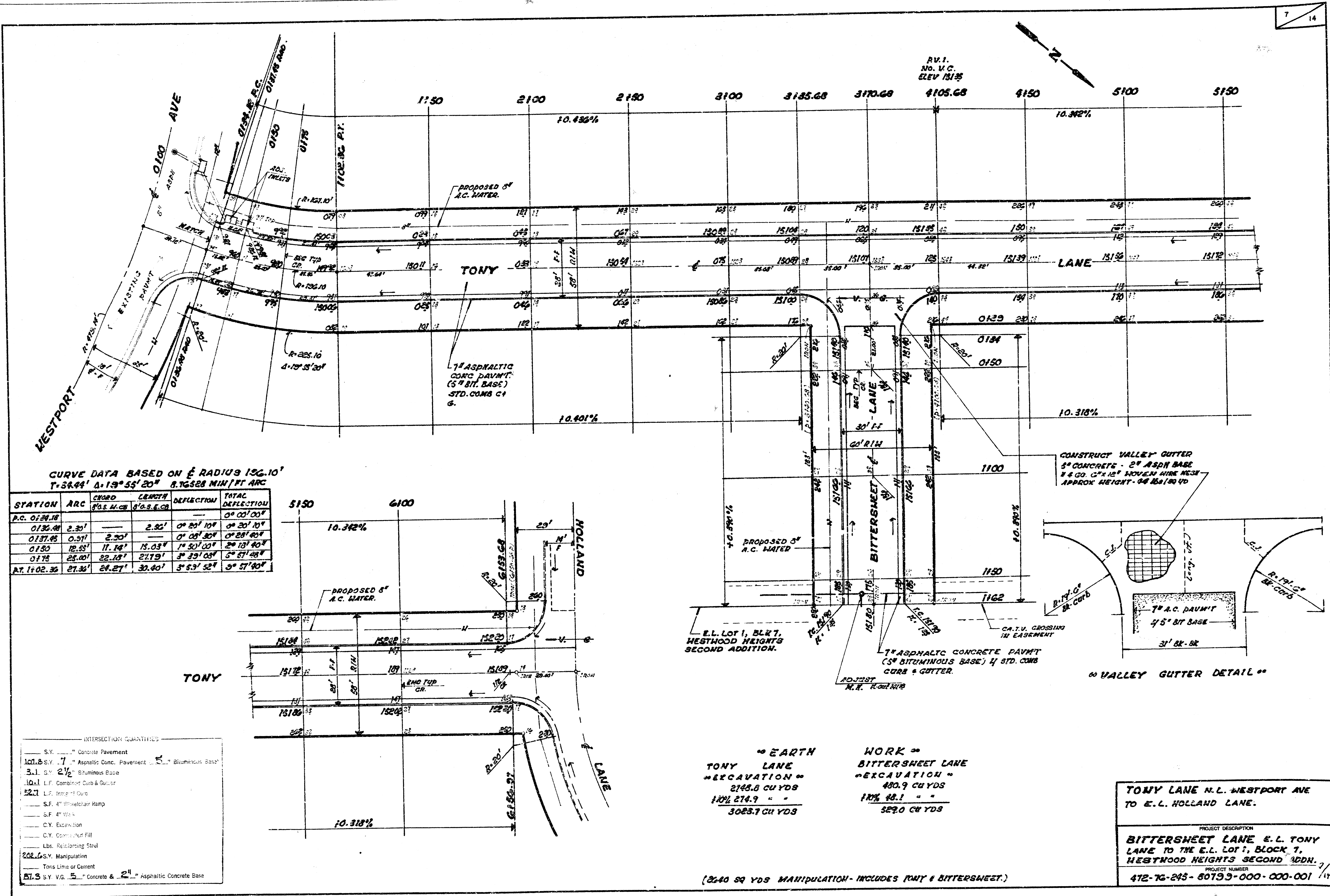
APPROVED BY
 M.E. LINDESAK - CITY ENGINEER

DATE
 REVISOR

CITY OF WICHITA

SCALE
 1" = 20'





CURVE DATA BASED ON $\bar{E}$ RADIUS 156.10'
 $T=38.44'$ $\Delta=19^\circ 55' 20''$ $S.T.G.528$ MIN/PT ARC

STATION	ARC	CHORD	LENGTH	DEFLECTION	TOTAL
					DEFLECTION
P.C. 0134.18					0° 00' 00"
0136.48	2.30'		2.32'	0° 20' 10"	0° 20' 10"
0137.45	0.97'		2.30'	0° 09' 20"	0° 29' 30"
0150	12.35'	11.14'	15.03'	1° 30' 00"	2° 10' 40"
0175	25.00'	22.15'	27.79'	3° 39' 05"	5° 51' 45"
A.T. 1402.36	27.32'	24.27'	30.40'	3° 53' 52"	9° 51' 40"

- INTERSECTION QUANTITIES
- 101.8 S.Y. 7" Concrete Pavement
 - 3.1 S.Y. 2 1/2" Bituminous Base
 - 10.1 L.F. Concrete Curb & Gutter
 - 52.1 L.F. Integral Curb
 - S.F. 4" Wheelchair Ramp
 - S.F. 4" Walk
 - C.Y. Excavation
 - C.Y. Compacted Fill
 - Lbs. Reinforcing Steel
 - 202.6 S.Y. Manipulation
 - Tons Lime or Cement
 - 51.3 S.Y. V.G. 5" Concrete & 2" Asphaltic Concrete Base

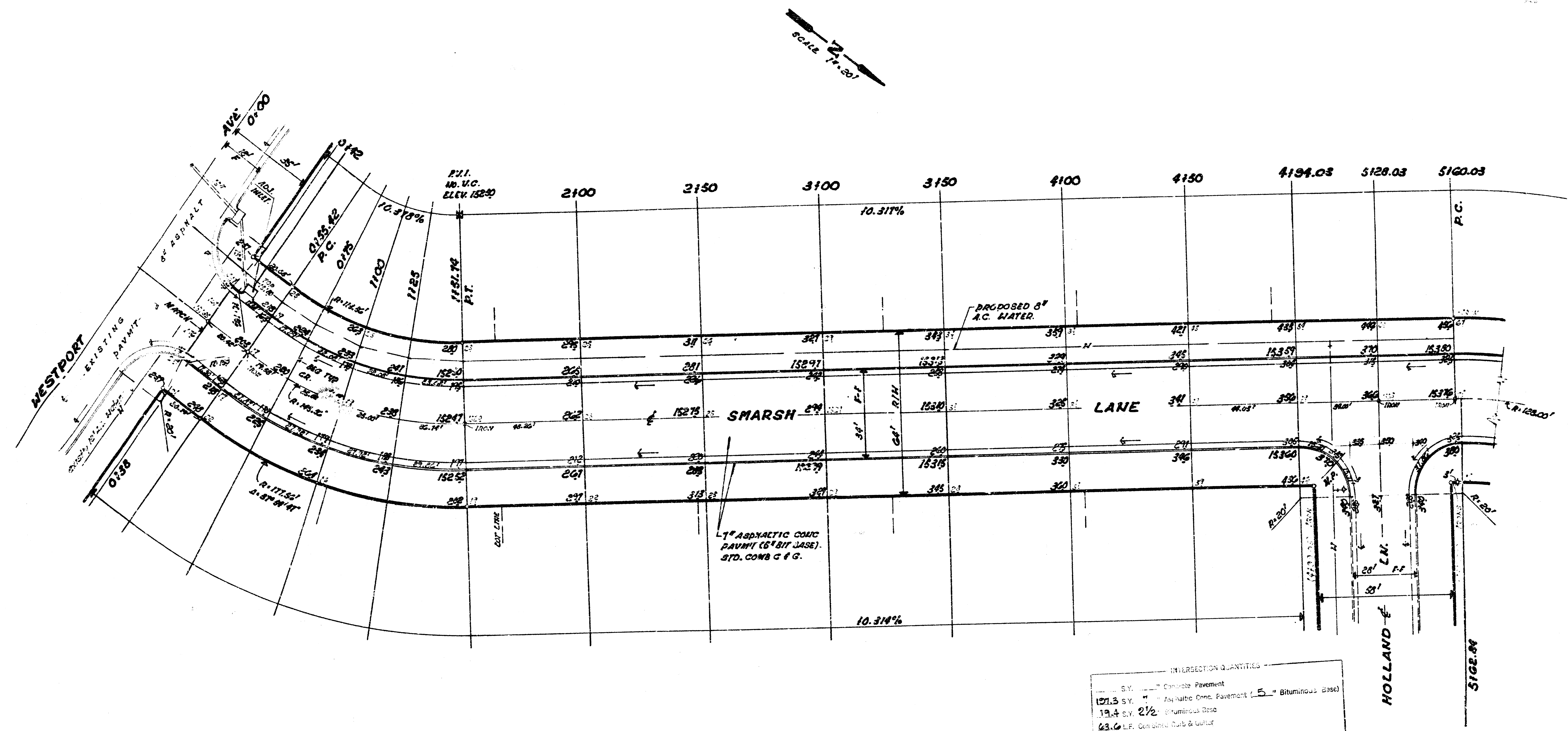
"EARTH WORK"
 TONY LANE
 EXCAVATION = 2745.8 CU YDS
 10% 274.9 " "
 3025.7 CU YDS

"EARTH WORK"
 BITTERSHEET LANE
 EXCAVATION = 480.9 CU YDS
 10% 48.1 " "
 529.0 CU YDS

TONY LANE N.E. WESTPORT AVE
 TO E.L. HOLLAND LANE.

PROJECT DESCRIPTION
 BITTERSHEET LANE E.L. TONY
 LANE TO THE E.L. LOT 1, BLOCK 7,
 WESTWOOD HEIGHTS SECOND ADDN.
 PROJECT NUMBER
 412-76-245-80793-000-000-001

(2640 SQ YDS MANIPULATION - INCLUDES TONY & BITTERSHEET.)



CURVE DATA BASED ON $\frac{1}{2}$ RADIUS 143.92' - Δ 37°54'47"
TAN = 90.00' 11.3069 MIN/FT ARC. - ARC 92.32'

STATION	ARC	CHORD		DEFLECTION	TOTAL DEFLECTION
		S.O.S. H.C.B.	E.O.S. E.C.B.		
PC 0155.42					0° 00' 00"
0175	19.58'	15.20'	22.92'	3° 51' 13"	3° 51' 13"
1100	25.00'	20.68'	29.26'	4° 55' 13"	8° 46' 26"
1125	25.00'	20.68'	29.26'	4° 55' 13"	13° 41' 39"
PT 1151.74	25.74'	22.11'	31.29'	5° 15' 45"	18° 57' 24"

INTERSECTION QUANTITIES

121.3 S.Y.	Concrete Pavement
19.4 S.Y.	Asphaltic Conc. Pavement (5" Bituminous Base)
63.6 S.Y.	2 1/2" Bituminous Base
	L.F. Concrete Curb & Gutter
	L.F. Manhole
	S.F. 42" Water Main Ramp
	S.F. 42" Manhole
	C.Y. Excavation
	C.Y. Compacted Fill
	Line Relocating Road
215.9 S.Y.	Manipulation
	Tons Lime or Cement
	S.Y. V.C. 100% Asphalite & 100% Asphaltic Concrete Base

EXCAVATION
 1978.1 CU YDS
 10% 197.8 " "
 2175.9 CU YDS

COMP FILL
 1767.1 CU YDS
 10% 176.8 " "
 1944.5 CU YDS

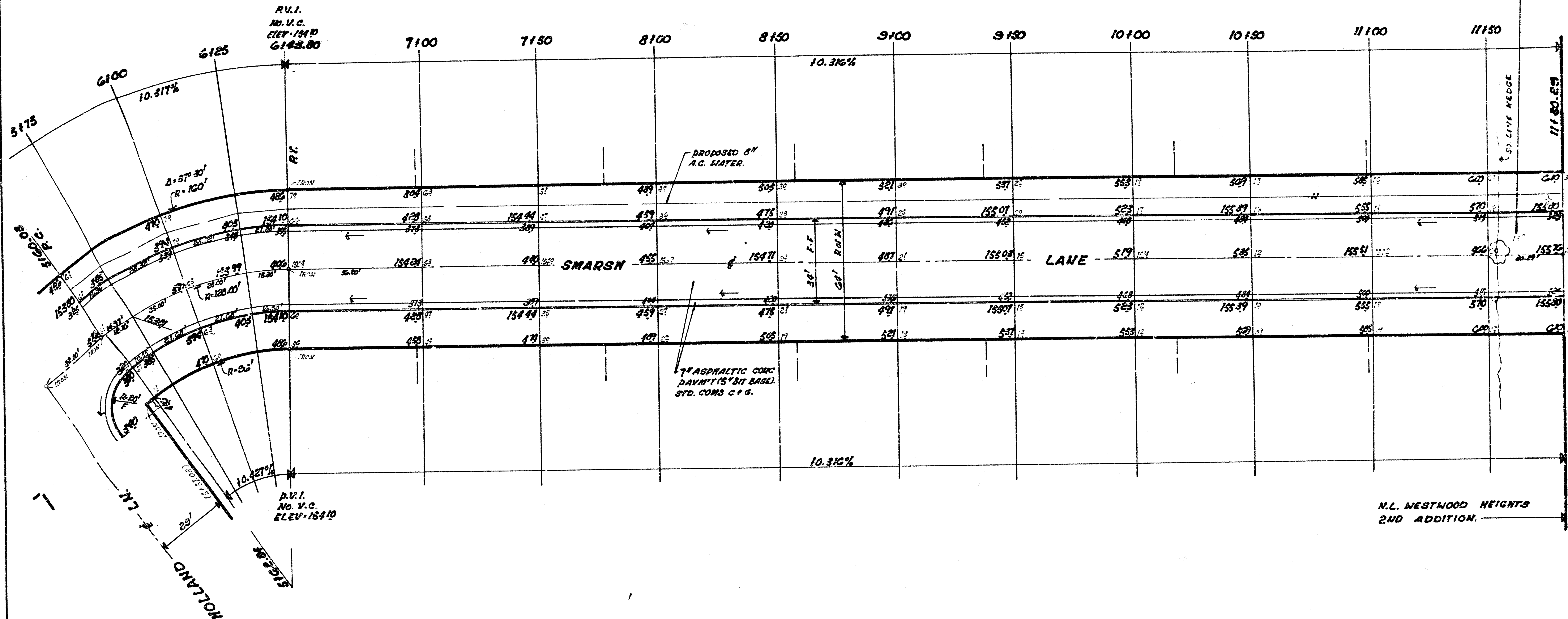
4703 59 YDS MANIPULATION

PROJECT DESCRIPTION
SMARSH LANE
 N.L. WESTPORT AVE TO N.L. WESTWOOD
 HEIGHTS 2ND ADDITION.

PROJECT NUMBER
 412-76-245-80199-000-000-001

SCALE 1"=80'

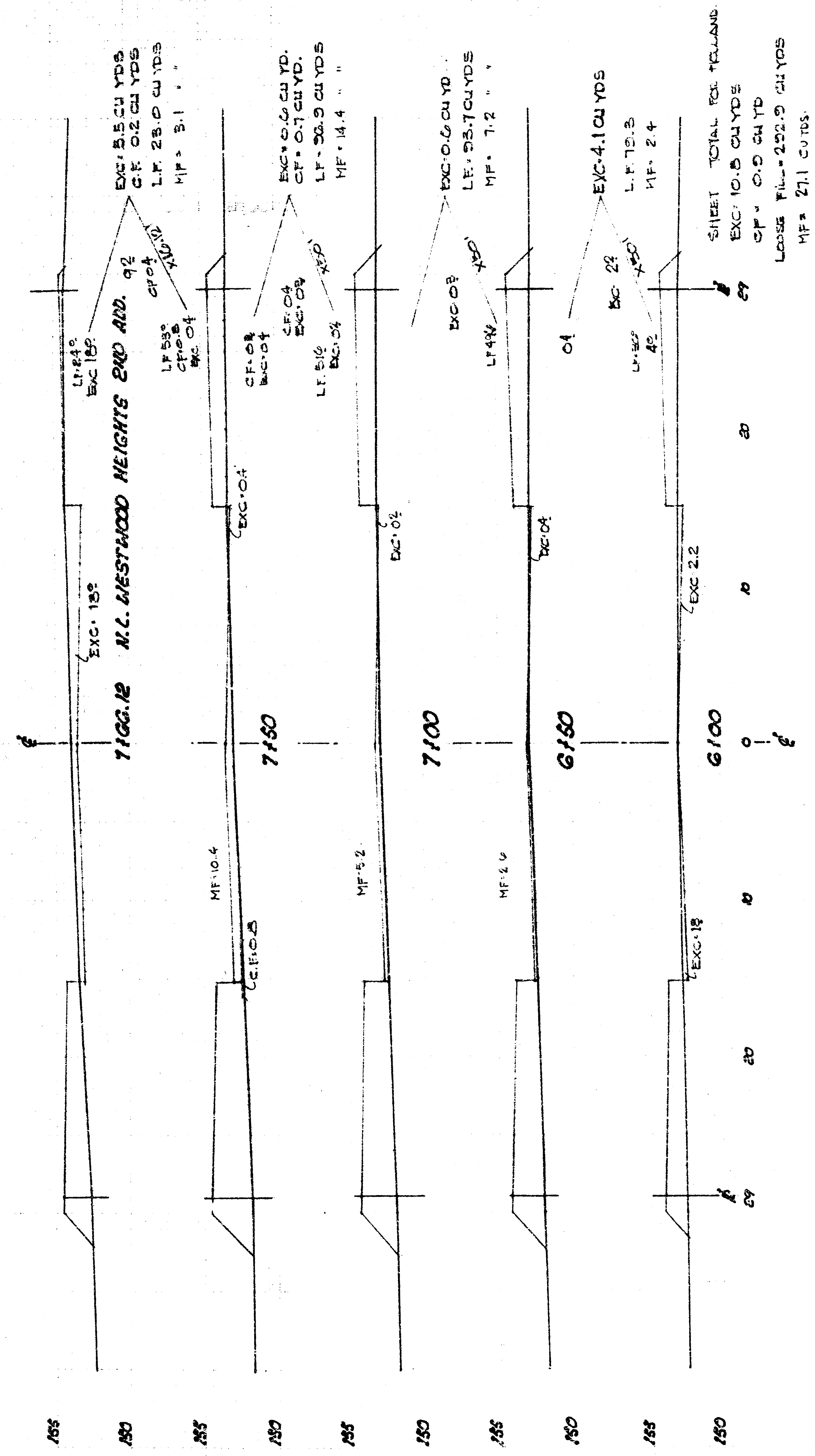
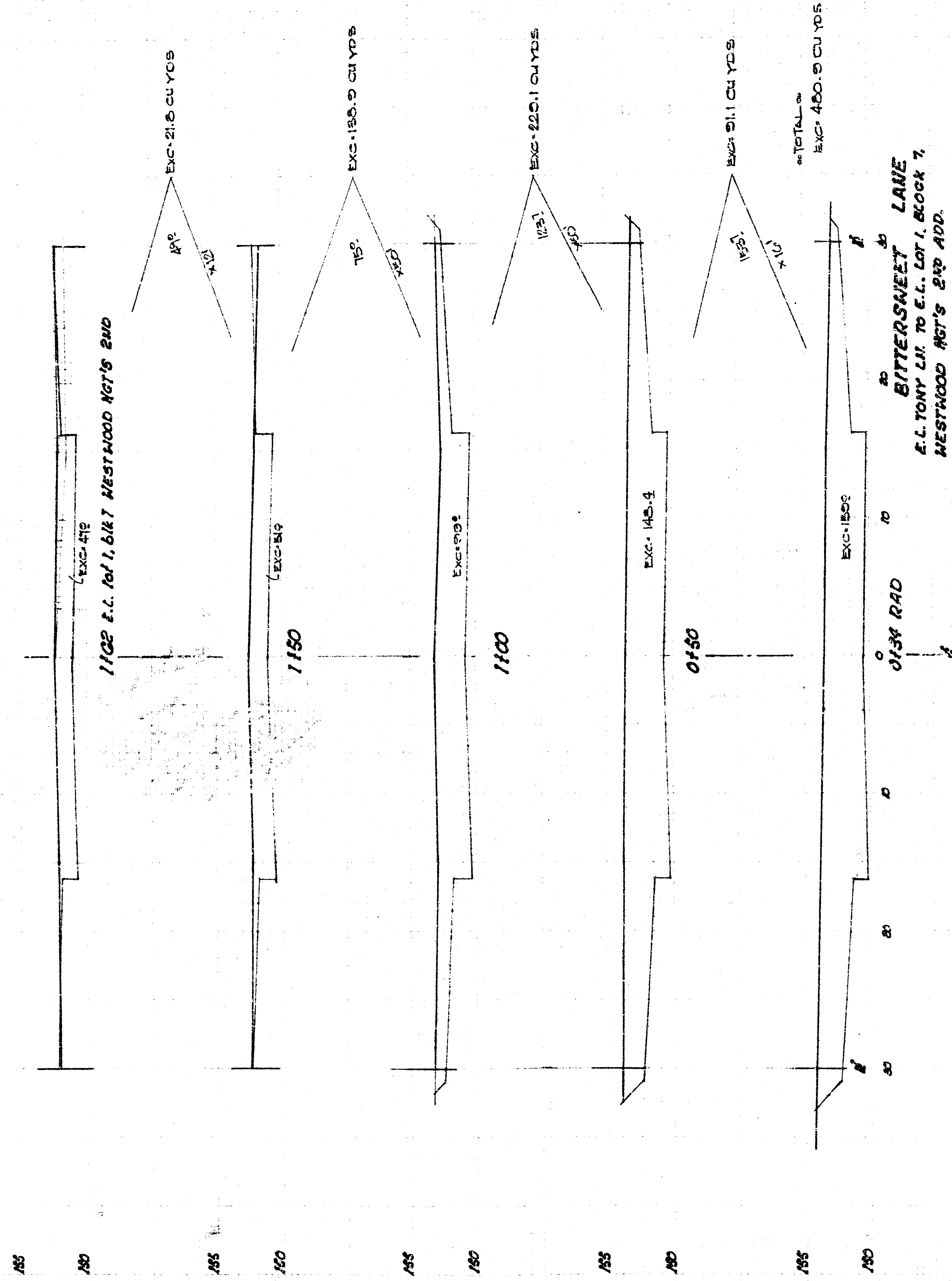
HEDGE ROW TO REMAIN. CONTRACTOR TO TRIM HEDGE TO FACILITATE CONSTRUCTION. HEDGE TRIMMING IS TO BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.



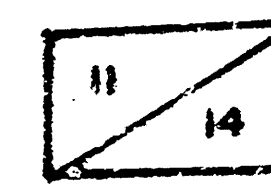
CURVE DATA BASED ON Δ RADIUS 128.00' $\Delta=37^{\circ}30'$
 TAN=43.45' 18.4282 MIN/FT ARC ARC=83.77'

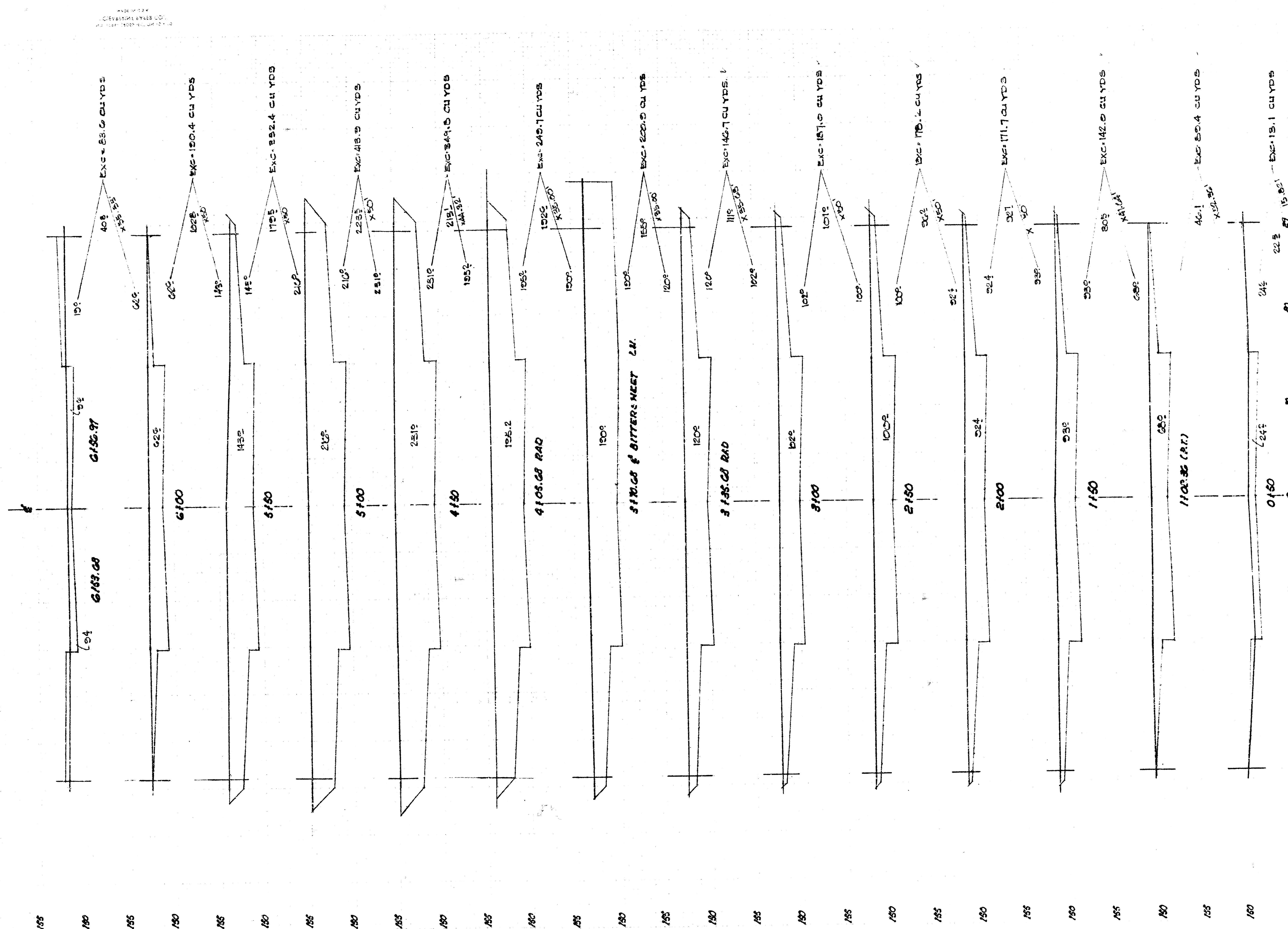
STATION	ARC	CHORD		DEFLECTION	TOTAL DEFLECTION
		S.O.S.M.C.B	E.O.S.E.C.B		
P.C. 5160.03					0° 00' 00"
5162.84	2.81'		2.82'	0° 31' 44"	0° 31' 44"
5175	12.15'	17.80'	3.78'	2° 43' 18"	3° 21' 02"
6100	28.00'	29.54'	20.09'	5° 35' 22"	0° 50' 45"
6125	25.00'	23.83'	20.09'	5° 35' 23"	18° 32' 23"
P.E. 6143.80	18.80'	22.45'	15.11'	4° 12' 32"	18° 45' 00"

PROJECT DESCRIPTION
SMARSH LANE
 N.L. WESTPORT AVE TO N.L. WESTWOOD
 HEIGHTS 2ND ADDITION
 PROJECT NUMBER
 412-76-245-80199-000-000-001

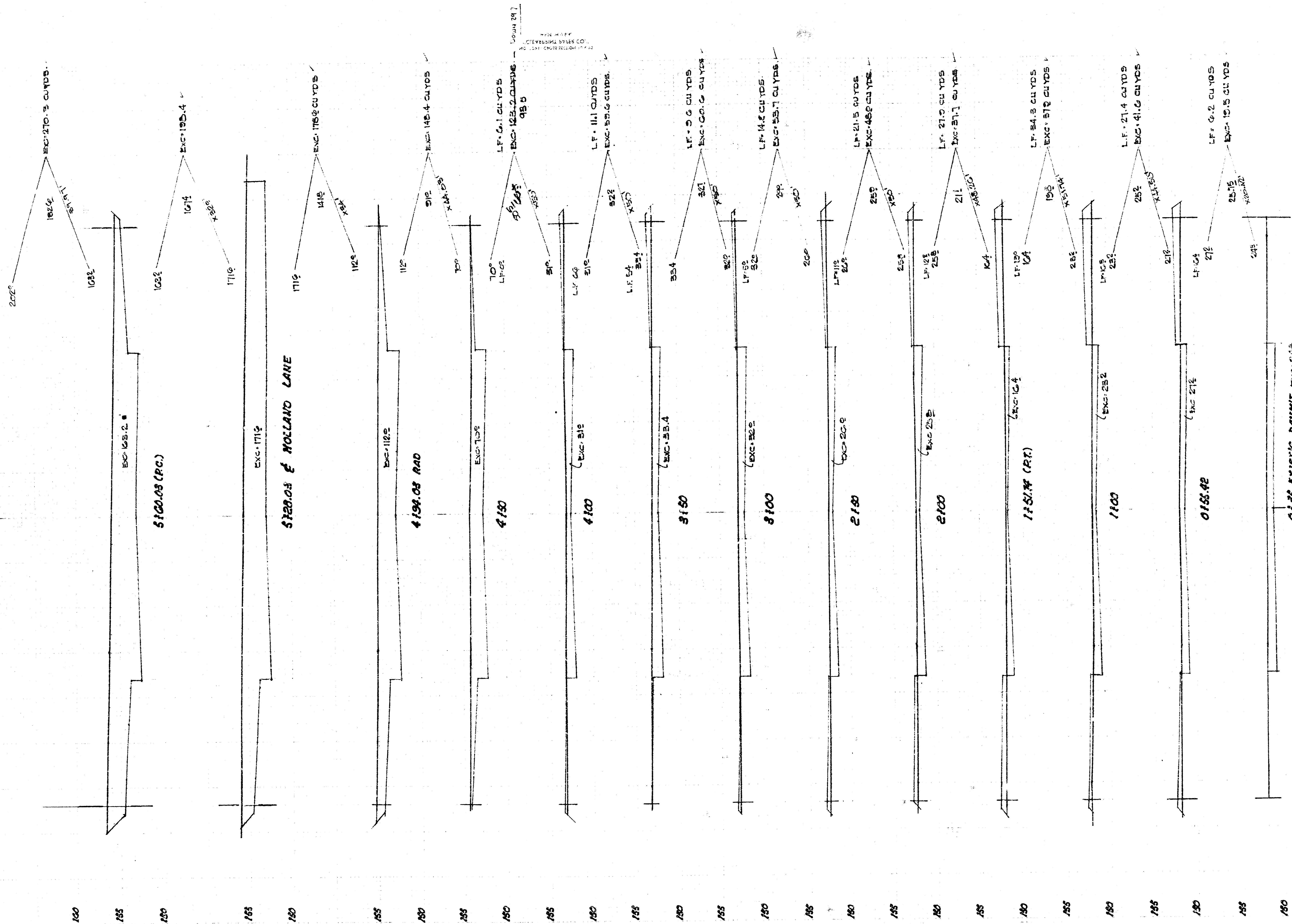


HOLLAND LAKE
 E.L. SMARSH LN TO N.L. WESTWOOD HT'S
 SECOND ADDITION.
 PROJ. NO. 412-X-245-20139-000-030-001





TONY LANE
 N.L. WESTPORT AVE TO E.L. ROLLAND LN.
 PROJ. NO. 472-78-245-80795-000-000-001
 SHEET TOTAL
 EXC. 2748.5 cu yds



1" = 10' SHEET TOTAL 20'
 1" = 10' FILL - 150.0 CU YDS
 1" = 10' EXCAVATION - 1241.8 CU YDS

SMARSH LANE
 N.L. WESTPORT TO N.L. WESTWOOD HGT'S
 SECOND ADDITION.
 PROJ. NO. 51E-W3-245 80153-000-000-001

TOTALS:
 EXC. FILL - 150.0 CU YDS
 EXC. - 1241.8
 OF - 1761.7

