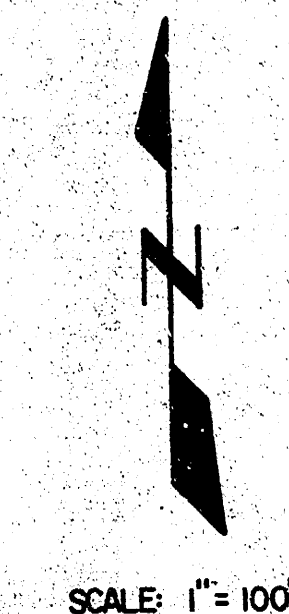
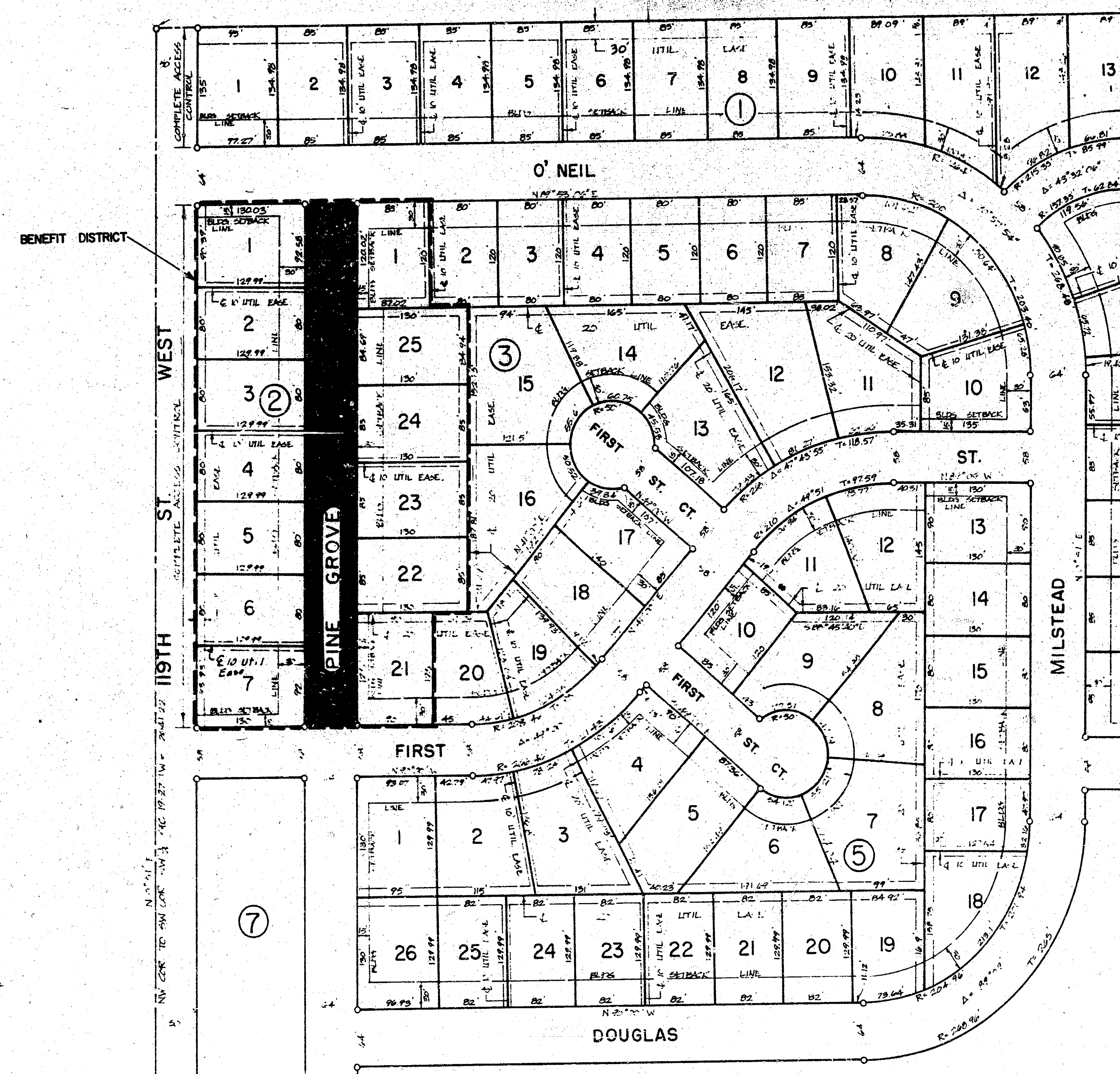


STREET IMPROVEMENTS PINE GROVE

FROM THE NORTH LINE OF FIRST STREET TO THE SOUTH
LINE OF O'NEIL, WESTLINK VILLAGE EIGHTEENTH ADDITION
PROJECT NO. 472-76-245-81662-000-000-001
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK, CITY ENGINEER
JULY, 1987

GENERAL NOTES

1. Utility service lines, poles, valve boxes, meters, and etcetera are to be adjusted as necessary by others prior to or during construction unless the plans specifically call for their adjustment by the contractor. Existing utilities and their location, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company provided field locations. The plan locations shown are not guaranteed. Additional existing utilities may also be encountered. The contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.
2. Rubble from the removal of miscellaneous structures and excess excavation which is to be wasted shall be disposed of on sites to be provided by the contractor. These sites shall be approved by the engineer as to suitability, appearance and site location. Locations that, in the opinion of the engineer, will leave an unsightly appearance will not be approved.
3. Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then sloped up or down using permissible slopes to match the existing ground surface.
4. The contractor shall be responsible for preserving property irons. The contractor will 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.



SCALE 1"=100'

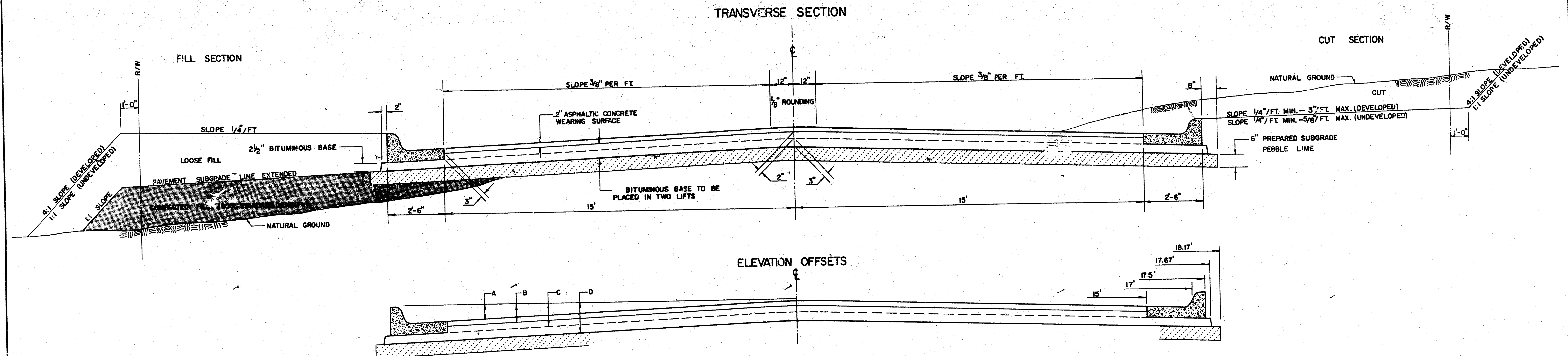
DRAWING INDEX

SHEET	TITLE
1	MAP AND BENEFIT DISTRICT
2	TYPICAL SECTIONS
3	STREET IMPROVEMENT PLANS
4	EARTHWORK SECTIONS

WICHITA, KANSAS STREET IMPROVEMENTS			
MAP AND BENEFIT DISTRICT PINE GROVE			
PROJECT NO. 472-76-245-81662-000-000-001			
	CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG JMK DR TDS CH MES	DWG FILE NO 8735-D-80,071
	DATE JULY 1987	APP RLC	SHEET NO 1 OF 4

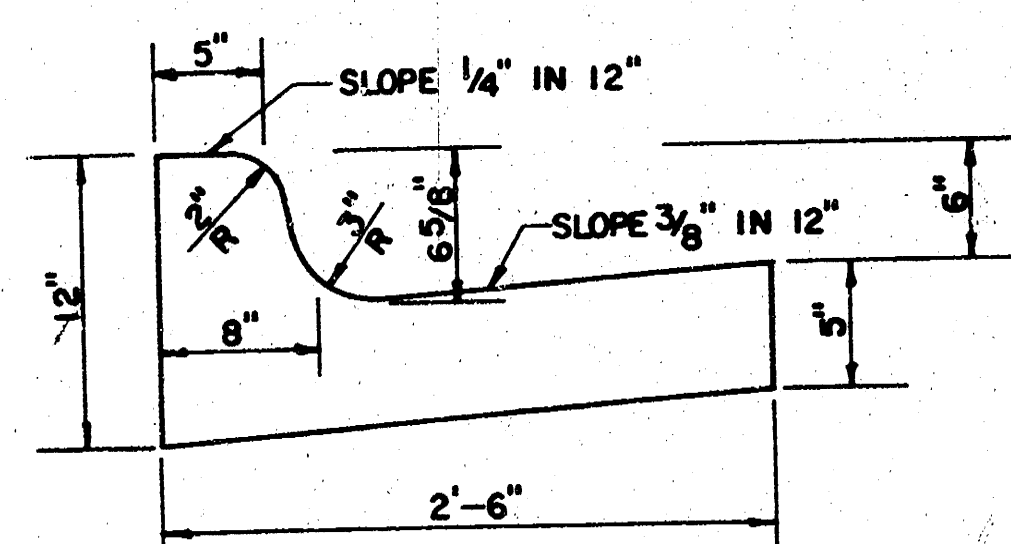
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TYPICAL 35' PAVEMENT DETAILS

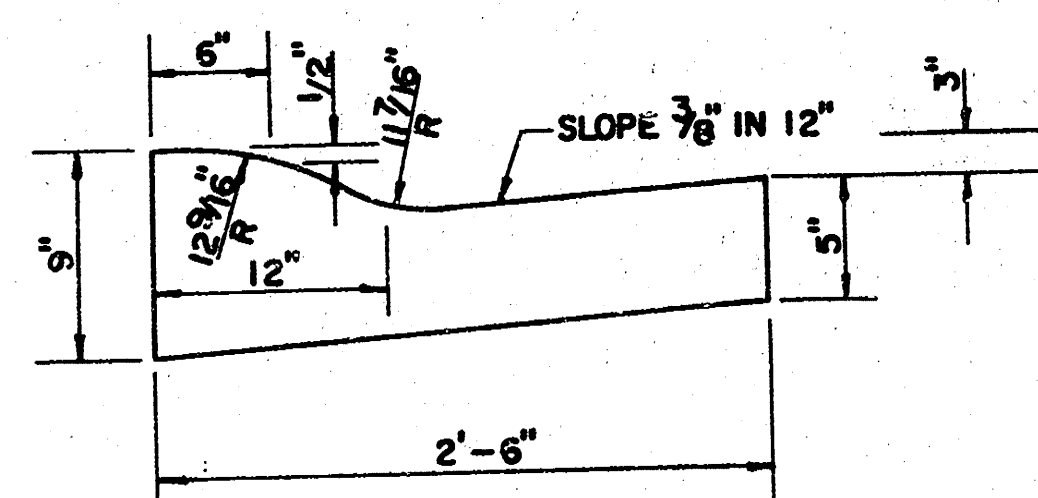


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0'	2'	4'	6'	8.5'	10'	12'	14'	15'	17'	17.5'	17.67'	18.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.04	0.08	0.14	0.21	0.29	0.33	0.39	0.46	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.21	0.25	0.31	0.37	0.45	0.50	0.56	0.62	0.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.37	0.43	0.50	0.57	0.67	0.72	0.79	0.87	0.90	0.98	1.00	1.00	—
D: TOP OF CURBS TO TOP OF SUBGRADE	0.62	0.67	0.74	0.81	0.90	0.95	1.02	1.08	1.12	1.19	1.21	1.21	1.23

COMBINED CURB & GUTTER



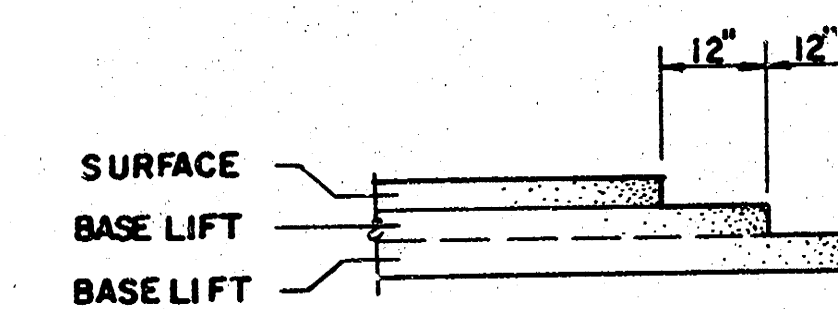
ROLL TYPE COMBINED CURB & GUTTER



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 (SC-1H OR CSS-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 LIFTS 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 PAVEMENT JOINTS 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).

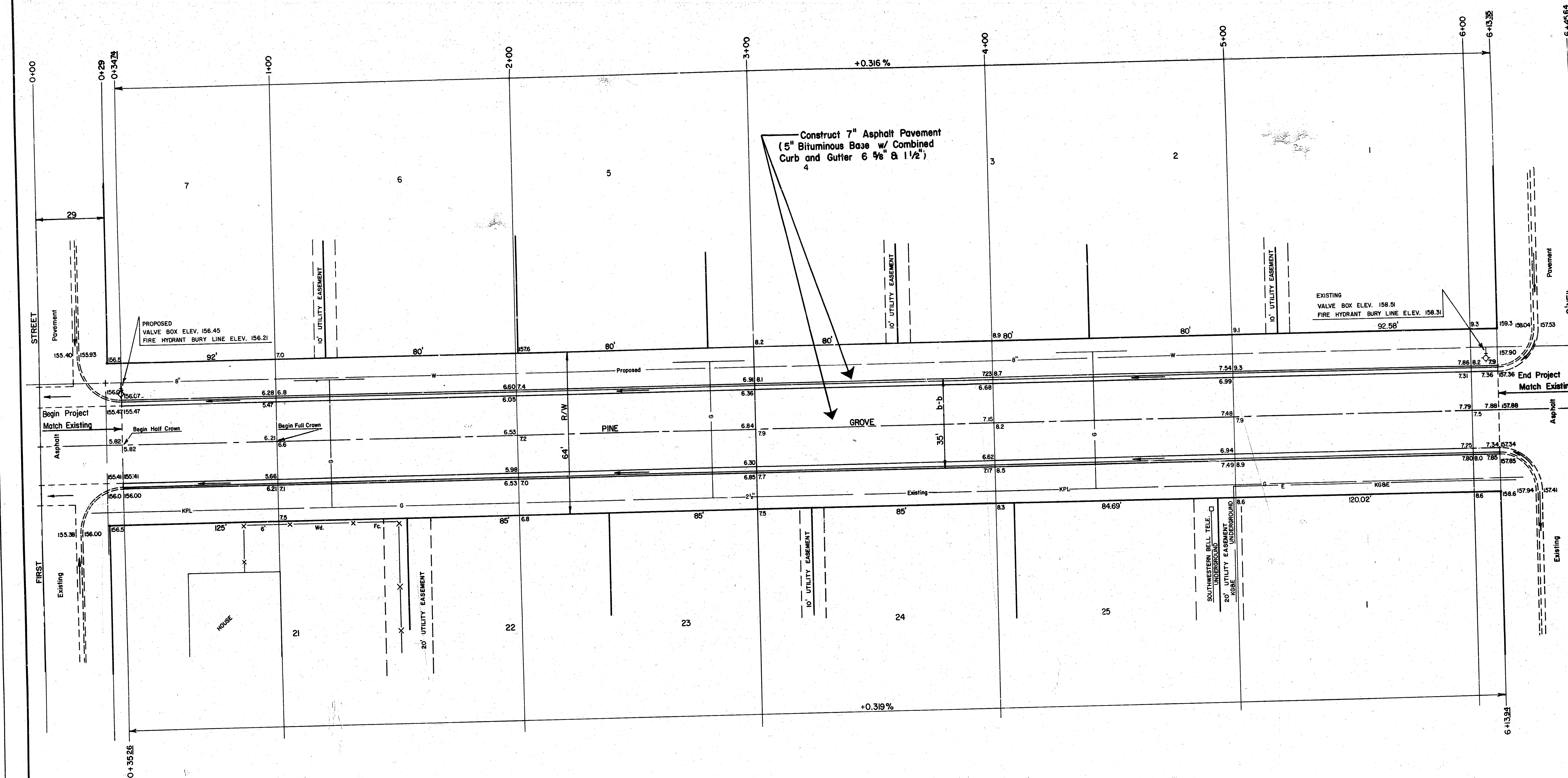
WICHITA, KANSAS STREET IMPROVEMENTS	
7 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 5 INCH BITUMINOUS BASE PROJECT NO. 472-76-245-81662-000-000-001	
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DWG. FILE NO. 6735-D-80,072 DATE JULY 1987
DATE JULY 1987	SHEET NO. 2 OF 4

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EARTHWORK PLOTTER - J.M.K.

DRAFTSPERSON - J.M.K.

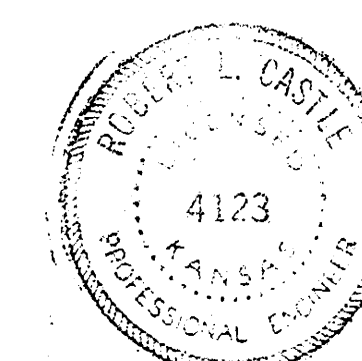
8735 SURVEYOR - L.J.K.



- BM.1 "□" Cut on top of curb 18' east and 35' south of the C.C.'s of First Street and Pine Grove. Elev. 155.75
- BM.2 "□" Cut on top of curb 4' south and 18' west of the C.C.'s of Douglas and Milstead. Elev. 151.64
- BM.3 City of Wichita disc 40' east and 46' south of the L's of Central Avenue and 119TH Street west. Elev. 156.93

Excavation	1612.93 c.y.
+10%	161.29 c.y.
Total	1774.22 c.y.

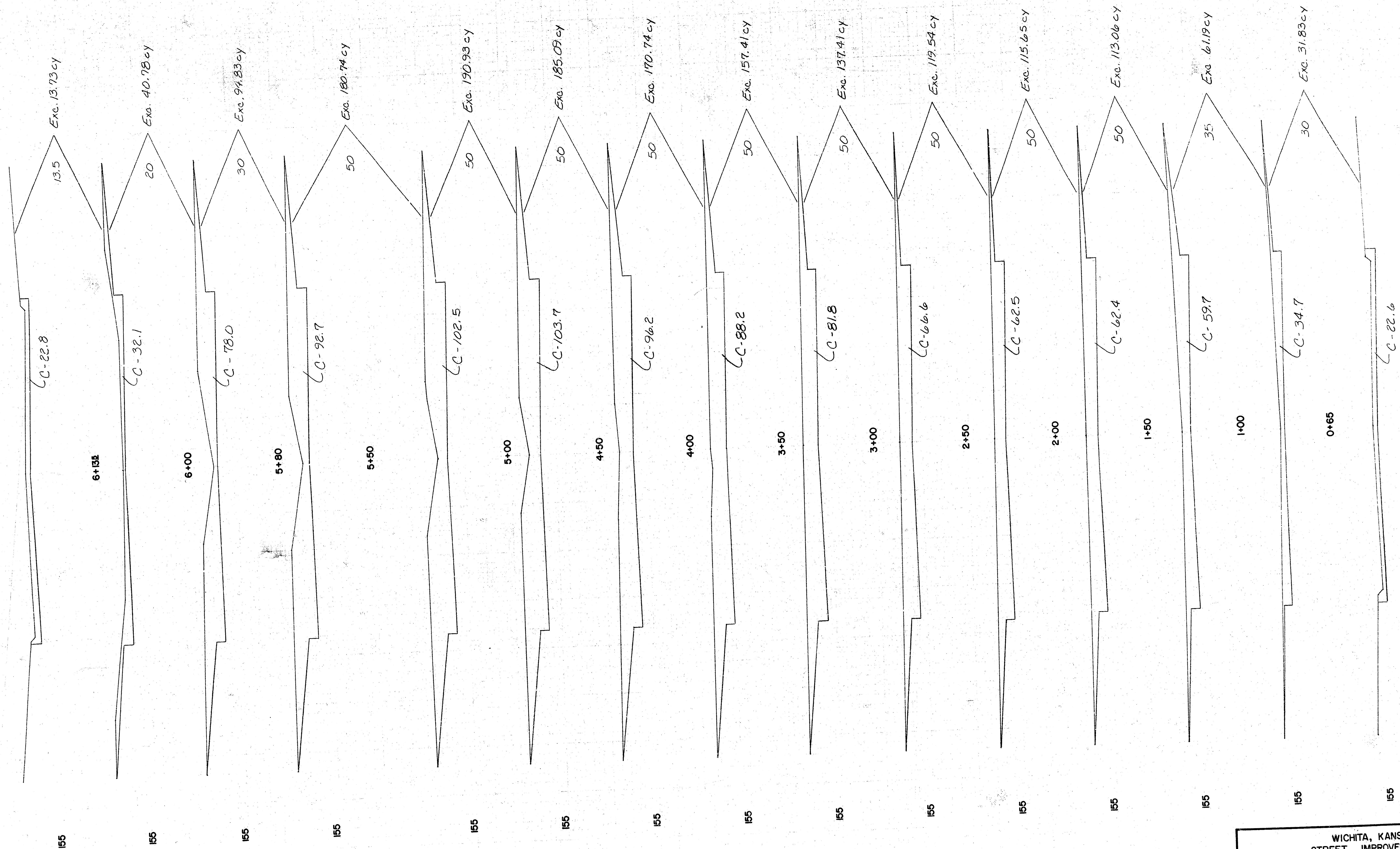
Manipulation 2336 s.y.



WICHITA, KANSAS	
STREET IMPROVEMENTS	
PLAN	
PINE GROVE	
PROJECT NO. 472-76-245-81662-000-000-001	
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG JMK DR JMK CH MES APP RLC
DATE JULY 1987	DWG FILE NO 8735-D-80,073 SHEET NO 3 OF 4

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8735
JMK
JMK
6/15/87
7/2/87



WICHITA, KANSAS STREET IMPROVEMENTS			
CROSS SECTIONS PINE GROVE PROJECT NO. 472-76-245-81662-000-000-001			
CASTLE & ASSOCIATES ENGINEERS WICHITA, KANSAS	DSG JMK DR JMK CH MES	DWG FILE NO. 8735-D-80,074	
	DATE JULY 1987	APP RLC	SHEET NO. 4 OF 4

Sheet Total
1612.93 cy Excavation
1779.82 cy Excavation

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