GENERAL NOTES:

1. .Notify the following companies prior to any excavation:

Arkla Gas Company	942-8350
Bell Telephone	268-2236
Cablevision	269-3340
Gas Service Company	263-7511
Kansas Gas & Electric	261-6375
Kansas One-Call	1-800-344-7233

2. 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 permissable slopes to match the existing ground surface.

3. 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.

4. Properties within the project limits may have underground sprinkler systems in public right-of-way which conflict with new construction. Contractor will be required to remove such improvements should they not be removed by their owner at the time of construction of the project. The Contractor will be required to salvage all sprinkler heads and/or valves and give such material to their owner. Portions of underground sprinkler systems not in conflict with new construction shall be protected from damage and shall remain in place. All work in connection with underground sprinkler systems shall be considered as subsidiary to the contract pay items of work.

CONSTRUCTION PLANS FOR STREET IMPROVEMENTS

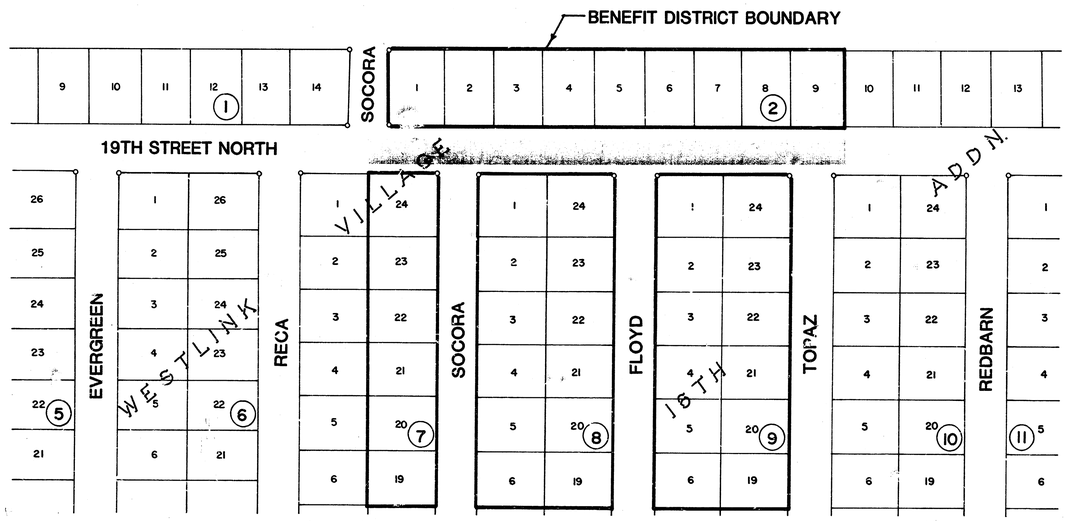
WESTLINK VILLAGE 16TH ADDITION TO THE CITY OF WICHITA, KANSAS

19TH STREET NORTH FROM W. LINE OF LOT 24 BLOCK 7 TO THE E. LINE OF LOT 9 BLOCK 2

INDEX NO. 608141

PROJECT NO. 472-76-245-81591-000-000-001

MICHAEL E. LINDEBAK, P. E. - CITY ENGINEER



NOVEMBER 1986

PLANS PREPARED BY

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 • Wichita, KS 67208 • 316/685-4114

INDEX

TITLE SHEET	SHEET 1
TYPICAL 37' PAVEMENT DETAILS	SHEET 2
19TH STREET NO.-STA. 0+00 TO 4+05	SHEET 3
19TH STREET NO.-STA. 4+05 TO 7+18.8	SHEET 4
CROSS SECTIONS STA. 0+00 TO STA. 2+00	SHEET 5
CROSS SECTIONS STA. 2+50 TO STA. 4+49	SHEET 6
CROSS SECTIONS STA. 4+93 TO STA. 7+18.8	SHEET 7
TYPE IA CURB INLET	SHEET 8

BENCH MARKS

1. B.M. 169.949 City of Wichita Standard Disk. 33' West and 90' South of Centerline Tyler and 21ST St.

2. B.M. 161.34 "□" Cut on S.E. Cor. Cb. Inlet at S.W. Cor. of 19TH and Reca.

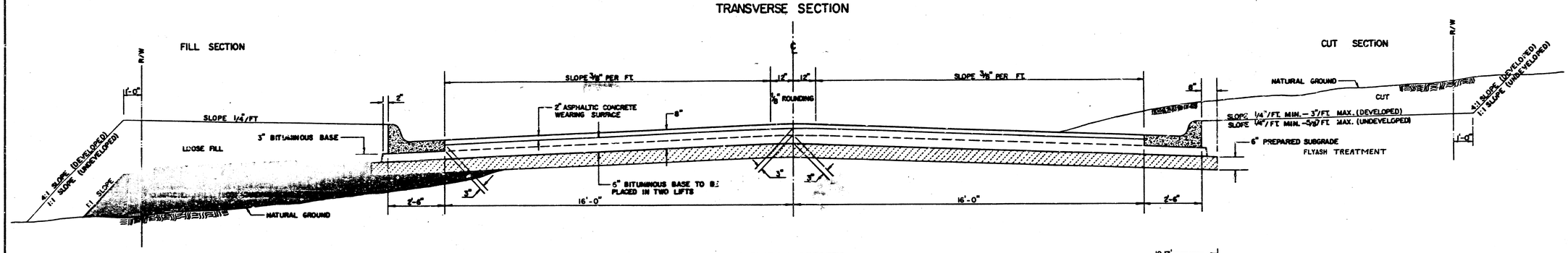
3. B.M. 159.83 "□" Cut on N.E. Cor. Cb. Inlet at N.W. Cor. 17TH and Topaz.

KENNY E. HILL LICENSED 7690 KANSAS PROFESSIONAL ENGINEER

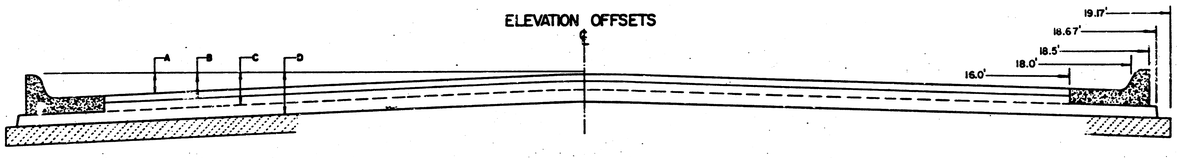
FILMED FROM THE BEST AVAILABLE COPY

TYPICAL 37' PAVEMENT DETAILS

TRANSVERSE SECTION

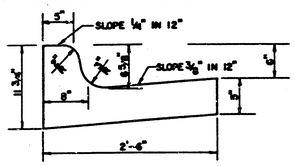


ELEVATION OFFSETS

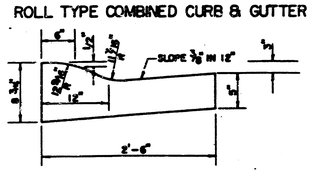


	DISTANCE FROM CENTERLINE (LT. & RT.)												
	0	2	4	6	8	10	12	14	16	18	18.5	18.67	19.17
A: TOP OF CURBS TO TOP OF SURFACE LIFT	.01	.05	.11	.18	.24	.30	.36	.43	.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	.17	.22	.28	.34	.40	.47	.53	.59	.65	—	—	—	—
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	.42	.47	.53	.59	.65	.72	.78	.84	.90	.97	.98	.99	—
D: TOP OF CURBS TO TOP OF SUBGRADE	.67	.72	.78	.84	.90	.97	1.03	1.09	1.15	1.22	1.23	1.24	1.25

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 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 3" BITUMINOUS BASE.

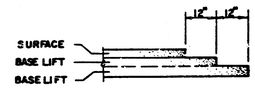
3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

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 AS 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

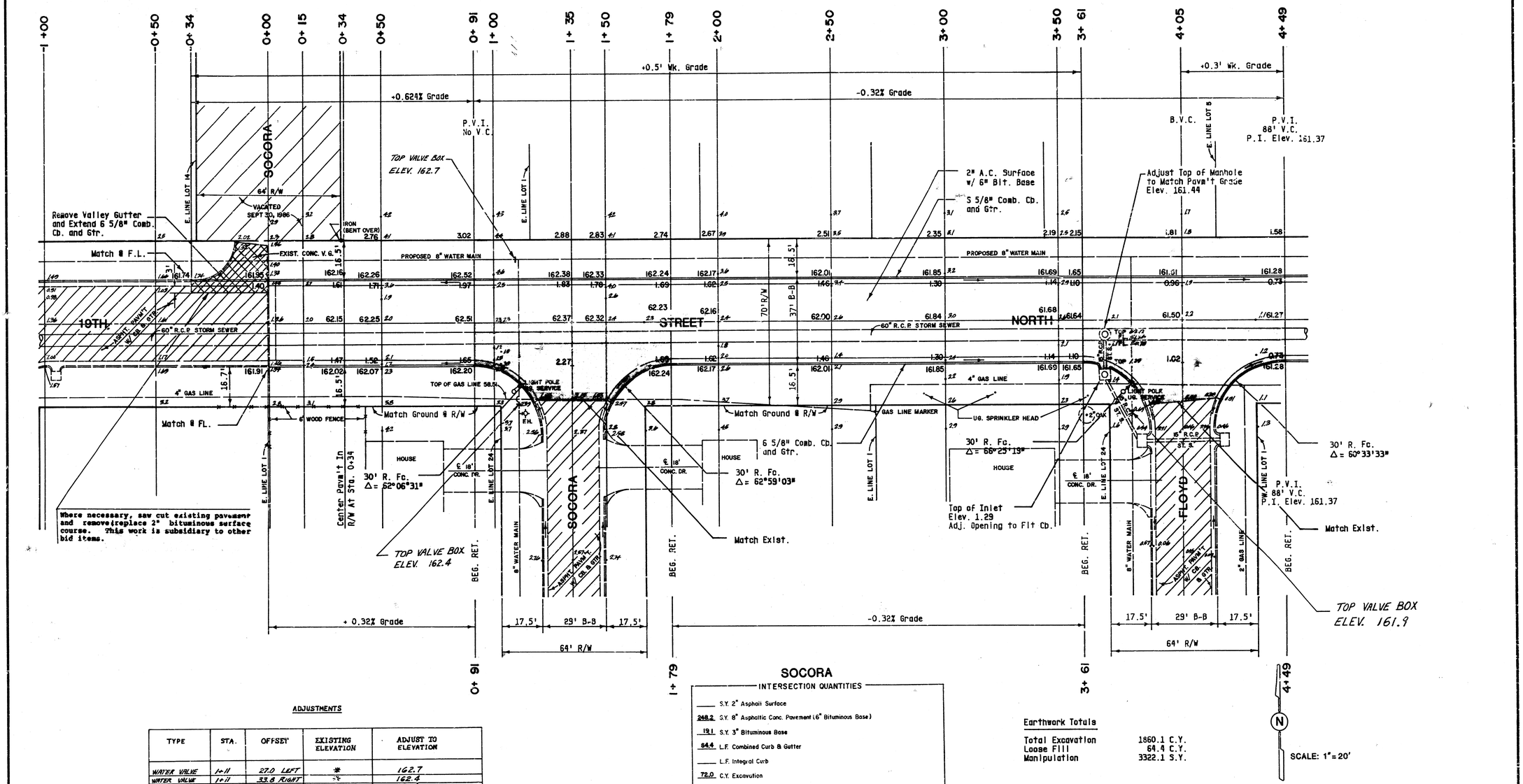


TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT JOINS EXISTING FLEXIBLE BASE PAVEMENT AS SHOWN BY THE DETAIL. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 6" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER:	8 INCH RESIDENTIAL ASPHALTIC CONCRETE PAVEMENT WITH 6 INCH BITUMINOUS BASE
ENG. TECH:	CITY OF WICHITA, KANSAS
DRAWN BY:	
DATE:	PROJECT NUMBER
SHEET 2 OF 8	472-76-245-81591-000-000-001

FILMED FROM THE BEST AVAILABLE COPY....



Where necessary, saw cut existing pavement and remove/replace 2" bituminous surface course. This work is subsidiary to other bid items.

ADJUSTMENTS

TYPE	STA.	OFFSET	EXISTING ELEVATION	ADJUST TO ELEVATION
WATER VALVE	1+11	27.0 LEFT	*	162.7
WATER VALVE	1+11	33.8 RIGHT	*	162.4
WATER VALVE	3+82.7	37.8 RIGHT	*	161.9
WATER VALVE	5+72.0	27.0 LEFT	*	160.1

SOCORA

INTERSECTION QUANTITIES

- ____ S.Y. 2" Asphalt Surface
- 248.2 S.Y. 8" Asphaltic Conc. Pavement (6" Bituminous Base)
- 19.1 S.Y. 3" Bituminous Base
- 64.4 L.F. Combined Curb & Gutter
- ____ L.F. Integral Curb
- 72.0 C.Y. Excavation
- ____ C.Y. Compacted Fill
- 270.9 S.Y. Manipulation
- 2.3 Tons Lime or 8.13 Tons Flyash
- ____ S.Y. V.G. 5" Concrete & 3" Asphaltic Concrete Base
- ____ L.F. Remove Curb
- ____ S.Y. Pavm't Removal

Earthwork Totals

Total Excavation	1860.1 C.Y.
Loose Fill	64.4 C.Y.
Manipulation	3322.1 S.Y.

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

DESIGNED BY	K.H.
DRAWN BY	B.H.
CHECKED BY	
DATE	NOV. 1986
SHEET	3 OF 8

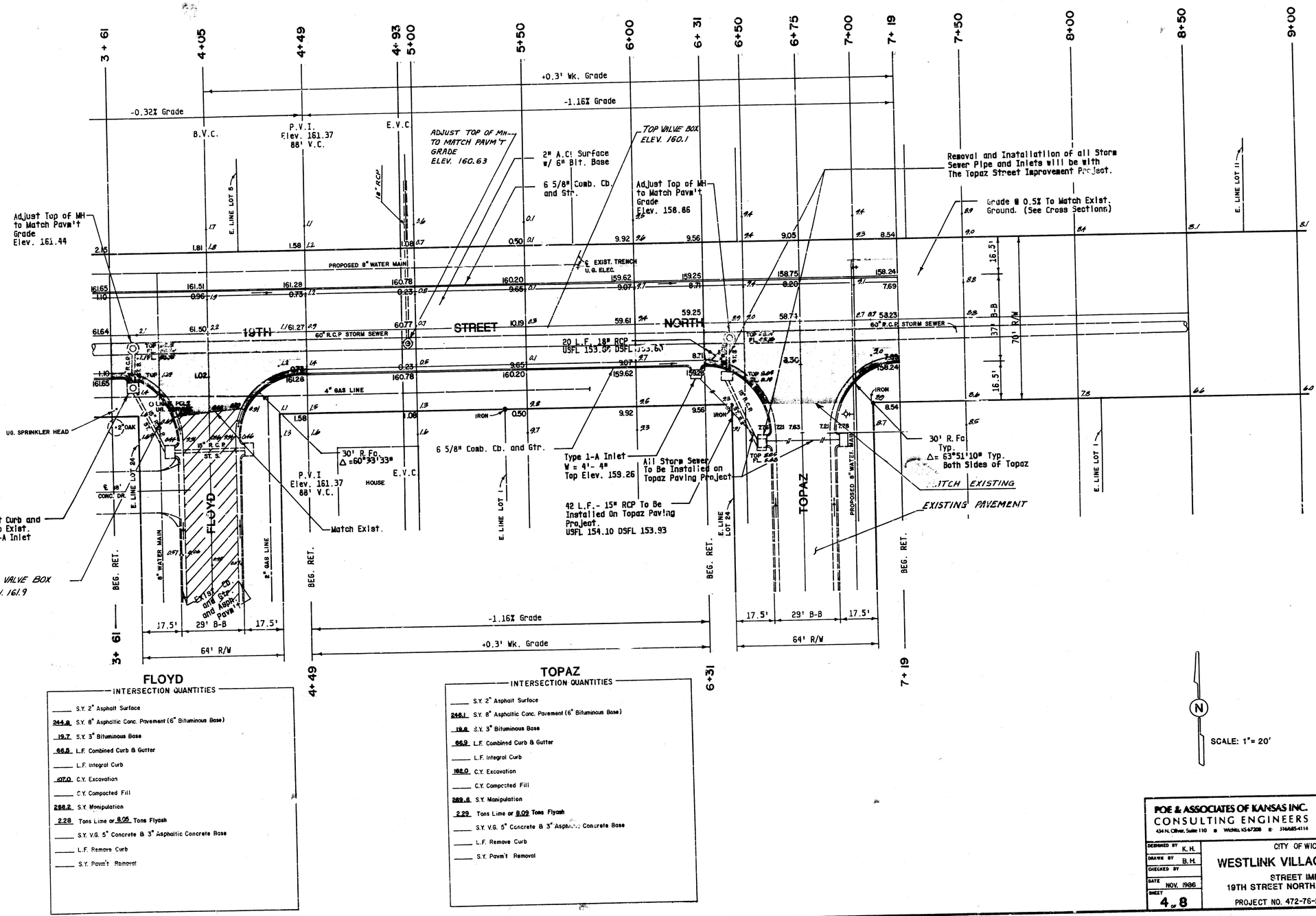
CITY OF WICHITA, KANSAS

WESTLINK VILLAGE 16TH ADDITION

STREET IMPROVEMENTS
19TH STREET NORTH STA. 0+00 TO STA. 4+05

PROJECT NO. 472-76-245-8159I-000-000-00I

FILMED FROM THE BEST AVAILABLE COPY



FLOYD
INTERSECTION QUANTITIES

____	S.Y. 2" Asphalt Surface
244.8	S.Y. 8" Asphaltic Conc. Pavement (6" Bituminous Base)
19.7	S.Y. 3" Bituminous Base
66.5	L.F. Combined Curb & Gutter
____	L.F. Integral Curb
107.0	C.Y. Excavation
____	C.Y. Compacted Fill
286.2	S.Y. Manipulation
2.28	Tons Lime or 8.05 Tons Flyash
____	S.Y. V.G. 5" Concrete & 3" Asphaltic Concrete Base
____	L.F. Remove Curb
____	S.Y. Pavm't Removal

TOPAZ
INTERSECTION QUANTITIES

____	S.Y. 2" Asphalt Surface
246.1	S.Y. 8" Asphaltic Conc. Pavement (6" Bituminous Base)
19.8	S.Y. 3" Bituminous Base
86.9	L.F. Combined Curb & Gutter
____	L.F. Integral Curb
162.0	C.Y. Excavation
____	C.Y. Compacted Fill
289.6	S.Y. Manipulation
2.29	Tons Lime or 8.09 Tons Flyash
____	S.Y. V.G. 5" Concrete & 3" Asphaltic Concrete Base
____	L.F. Remove Curb
____	S.Y. Pavm't Removal

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

DESIGNED BY K. H.
DRAWN BY B. H.
CHECKED BY
DATE NOV. 1986
SHEET 4 OF 8

CITY OF WICHITA, KANSAS

WESTLINK VILLAGE 16TH ADDITION

STREET IMPROVEMENTS
19TH STREET NORTH STA. 4+05 TO STA. 7+18.8

PROJECT NO. 472-76-245-8159I-000-000-001

FILMED FROM THE BEST AVAILABLE COPY

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	STRUCTURE NOTATNS CHKD		

	STATE		FISCAL YEAR	SHEET NO.	TOTAL SHEETS

SHEET TOTAL
C = 478.9 C.Y.
F = 8.1 C.Y.

C = 52.4 C.Y.
F = 8.1 C.Y.

C = 362 C.Y.

C = 77.0 C.Y.

C = 76.7 C.Y.

C = 44.1 C.Y.

C = 122.6 C.Y.

C = 17.4

C = 65.8

C = 13.9

C = 12.1

C = 19.2

L = 12.8

C = 19.2

C = 20.2

C = 66.1

C = 38.3

C = 65.8

R/W

R/W

0+00 0+34 0+50 0+91 1+55 1+79 2+00

0 5 10 15 20 25 30 35

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, KS 67208 ■ 316/685-4114

ENGINEER	K. H.
ENG. TECH.	
DRAWN BY	B. H.
DATE	NOV. 1988
SHEET	5 OF 8

CITY OF WICHITA, KANSAS

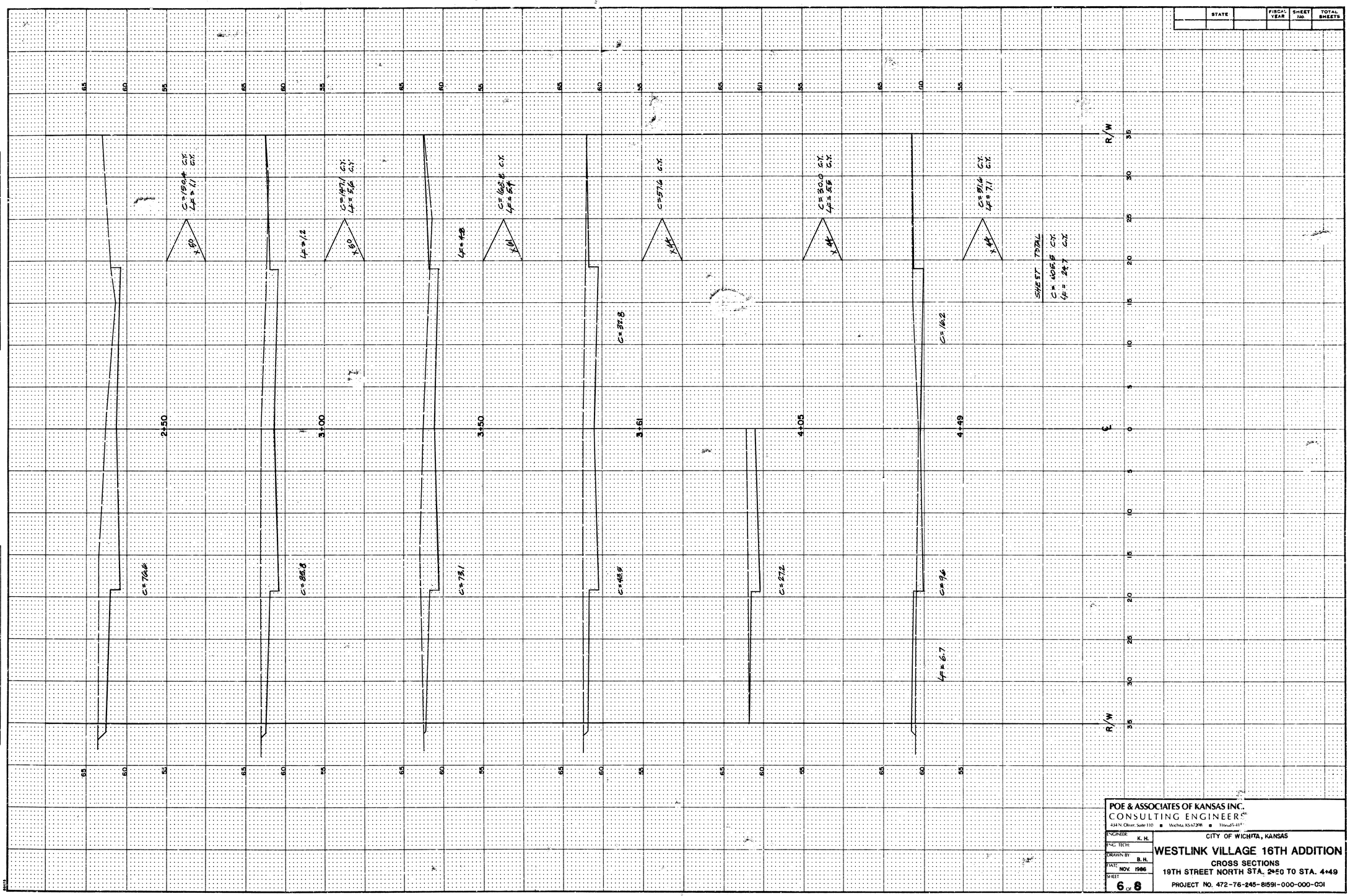
WESTLINK VILLAGE 16TH ADDITION

CROSS SECTIONS
19TH STREET NORTH STA. 0+00 TO STA. 2+00

PROJECT NO. 472-76-245-8159.-000-000-001

FILMED FROM THE BEST AVAILABLE COPY

	STATE		FISCAL YEAR	SHEET NO	TOTAL SHEETS



PLAN

SURVEYED
PLOTTED
NOTE BOOK
NO.
ALIGNMENT CHECKED
RT. OF WAY CHECKED
BY
DATE

PROFILE

SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
R.P.'S SET
STRUCTURE NOTATNS CHKD
BY
DATE

POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, Ks 67208 ■ Hinesville, Ga

ENGINEER: K. H.
ENG. TECH:
DRAWN BY: B. H.
DATE: NOV. 1986
SHEET: 6 OF 8

CITY OF WICHITA, KANSAS

WESTLINK VILLAGE 16TH ADDITION

CROSS SECTIONS

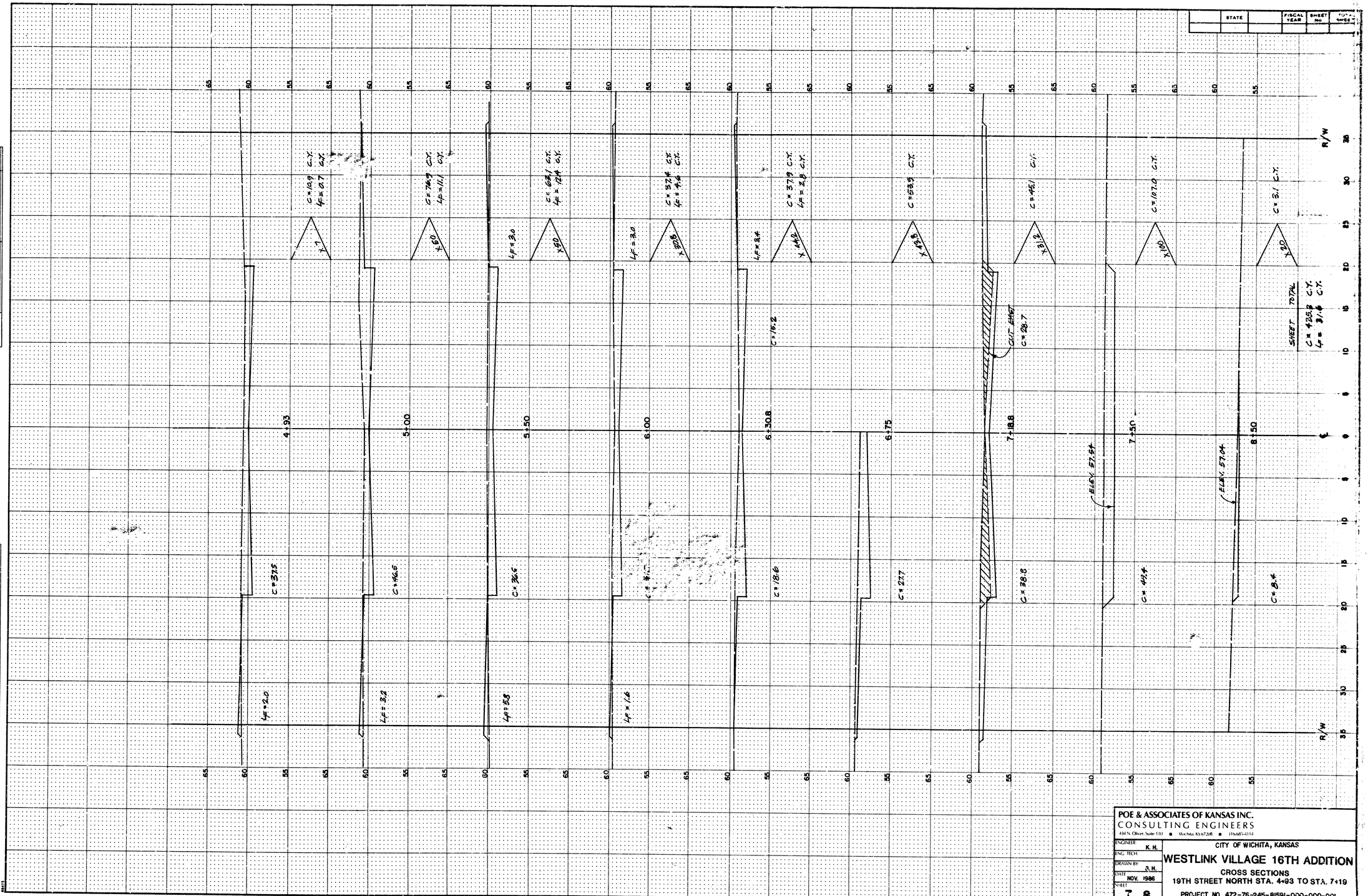
19TH STREET NORTH STA. 2+50 TO STA. 4+49

PROJECT NO. 472-76-245-8159-000-000-001

FILMED FROM THE BEST AVAILABLE COPY

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	GRADES CHECKED		
	BOOK NO.		
	STN., ELEV. & NOTATIONS CH'KD		



POE & ASSOCIATES OF KANSAS INC.
CONSULTING ENGINEERS
434 N. Oliver, Suite 110 ■ Wichita, Ks 67208 ■ (316) 685-4112

ENGINEER	K. H.
ENG. TECH.	
DRAWN BY	S. H.
DATE	NOV. 1986
SHEET	7 OF 8

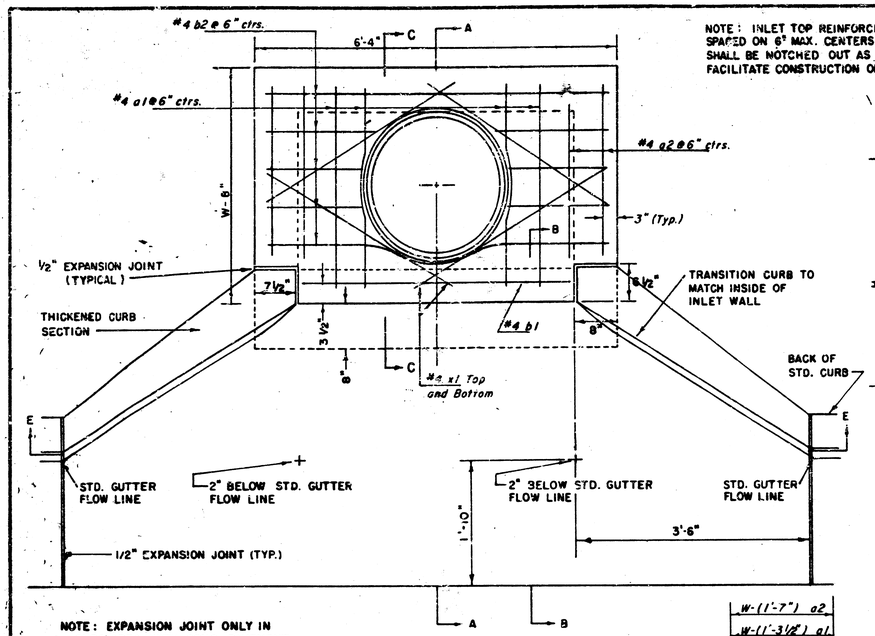
CITY OF WICHITA, KANSAS

WESTLINK VILLAGE 16TH ADDITION

CROSS SECTIONS
19TH STREET NORTH STA. 4+93 TO STA. 7+19

PROJECT NO. 472-76-245-81591-000-000-001

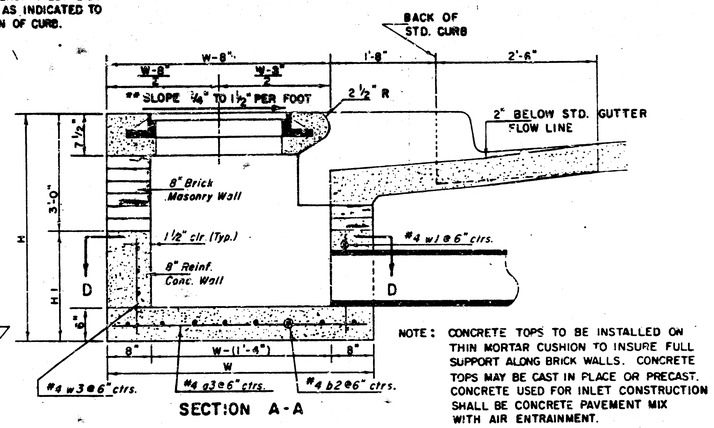
FILMED FROM THE BEST AVAILABLE COPY



NOTE: EXPANSION JOINT ONLY IN CURB AREA WITH CONC. PAVEMENT.

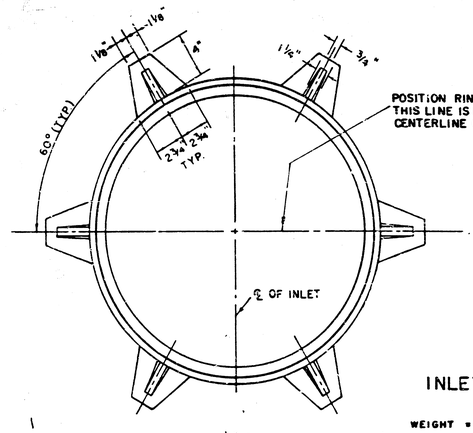
PLAN

NOTE: INLET TOP REINFORCING SHALL BE SPACED ON 6" MAX. CENTERS. INLET LIDS SHALL BE NOTCHED OUT AS INDICATED TO FACILITATE CONSTRUCTION OF CURB.



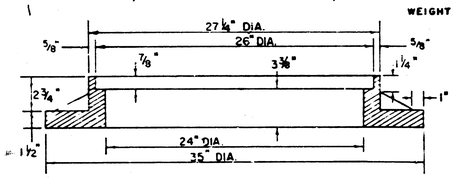
SECTION A-A

NOTE: CONCRETE TOPS TO BE INSTALLED ON THIN MORTAR CUSHION TO INSURE FULL SUPPORT ALONG BRICK WALLS. CONCRETE TOPS MAY BE CAST IN PLACE OR PRECAST. CONCRETE USED FOR INLET CONSTRUCTION SHALL BE CONCRETE PAVEMENT MIX WITH AIR ENTRAINMENT.

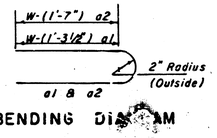


INLET FRAME

WEIGHT = 180 LBS.



SEE CITY OF WICHITA STANDARD MANHOLE FRAME AND COVER DETAIL SHEET FOR COVER DETAILS TO BE USED WITH INLET FRAME.



BENDING DIAGRAM

NOTE: CONTRACTOR SHALL HAVE THE OPTION OF CONSTRUCTING 8" BRICK MASONRY WALLS BETWEEN THE CONCRETE INLET BASE AND TOP ON THIS INLET WHEN W = 6'4" AND H = 7'0" OR LESS.

ADDITIONAL CURB AND GUTTER CONSTRUCTION NECESSARY TO CONNECT SET-BACK INLET TO PAVEMENT WILL BE PAID FOR AT THE UNIT PRICE BID FOR EACH INLET HOOKUP.

INLET INVERT SHALL BE SHAPED WITH 8 SACK SAND MIX CONCRETE TO CREATE FLOW CHANNELS AND TO INCREASE HYDRAULIC EFFICIENCY SUCH THAT THE INLET WILL BE SELF CLEANING BETWEEN ALL INLET AND/OR OUTLET PIPES.

THE ENDS OF ALL PIPES INSTALLED IN INLETS SHALL BE CUT OFF FLUSH WITH THE INSIDE FACE OF THE INLET WALL.

**NOTE: Slope of Inlet Tops to match Sidewalk or Parking Slopes within Limits indicated.

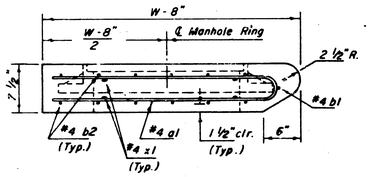
PRECAST SLAB AND FLOOR REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
a1	#4	6	6'-7"	6	8'-7"	6	10'-7"	6	12'-7"	6	14'-7"
a2	#4	4	6'-0"	4	8'-0"	4	10'-0"	4	12'-0"	4	14'-0"
a3	#4	13	4'-1"	13	5'-1"	13	6'-1"	13	7'-1"	13	8'-1"
b1	#4	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"	1	4'-9"
b2	#4	23	6'-1"	29	6'-1"	35	6'-1"	41	6'-1"	47	6'-1"
x1	#4	8	3'-10"	8	4'-2"	8	4'-6"	8	4'-10"	8	5'-2"
WALL REINFORCING											
		W=4'-4"		W=5'-4"		W=6'-4"		W=7'-4"		W=8'-4"	
Mark	Size	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
w1	#4	(1)	6'-1"	(1)	6'-1"	(1)	6'-1"	(1)	6'-1"	(1)	6'-1"
w2	#4	(1)	4'-1"	(1)	5'-1"	(1)	6'-1"	(1)	7'-1"	(1)	8'-1"
w3	#4	32	(2)	36	(2)	40	(2)	44	(2)	48	(2)

* Field bend or cut Reinforcing as required for clearance.

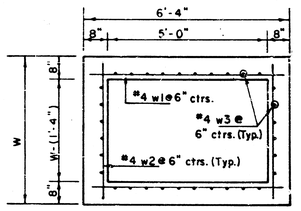
(1) 4(H1-12"); (H1-12") Round down to nearest 0.5'

(2) H1-3"

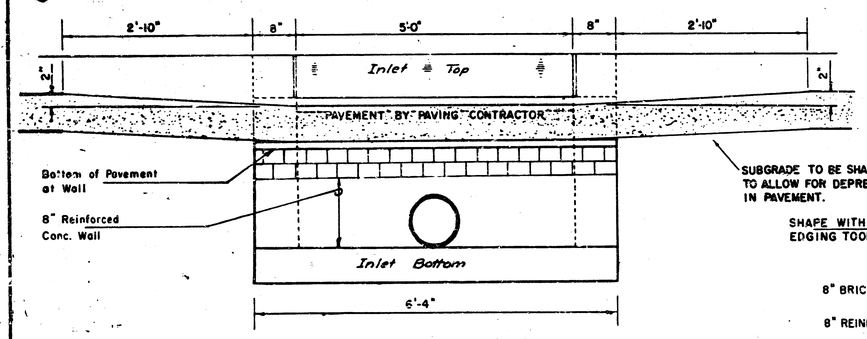
STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	PIPE SIZE	CU.YD. CONC.
4' 4"	5'8"x 6'4" x7 1/2"	21" & SMALLER	0.38 ±
5' 4"	4'8"x 6'4" x7 1/2"	24" & 30"	0.51 ±
6' 4"	5'8"x 6'4" x7 1/2"	36" & 42"	0.64 ±
7' 4"	6'8"x 6'4" x7 1/2"	48" & 54"	0.77 ±
8' 4"	7'8"x 6'4" x7 1/2"	60" & 66"	0.90 ±



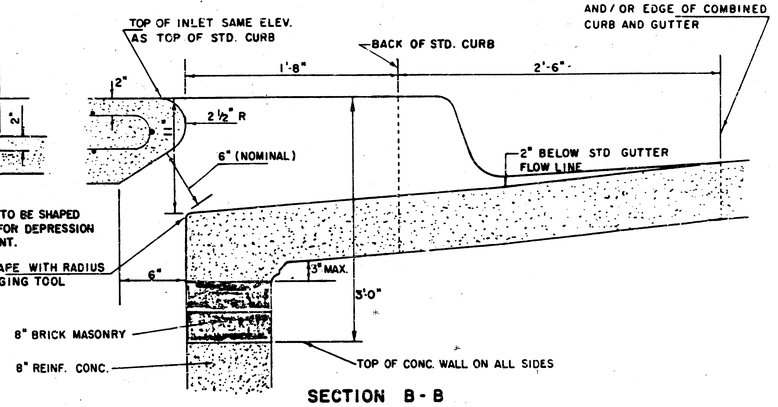
SECTION C-C



SECTION D-D



SECTION E-E



SECTION B-B

~~REVISED 11-30-1988~~

~~REVISED 12-31-1984~~

Revised 2-16-1989

SHEET 8 of 8

DETAIL STANDARD TYPE IA CURB INLET

CITY OF WICHITA, KANSAS

INLET OPENING = 6" x 5'0"

JUNE 1984

FILMED FROM THE BEST AVAILABLE COPY....