

CITY OF WICHITA, KANSAS

STREET IMPROVEMENTS

1 - ST. PAUL, FROM THE NORTH LINE OF
WILDWOOD TO THE NORTH LINE OF 27TH STREET SOUTH
PROJECT No. 472-82878
INDEX CODE : 764548

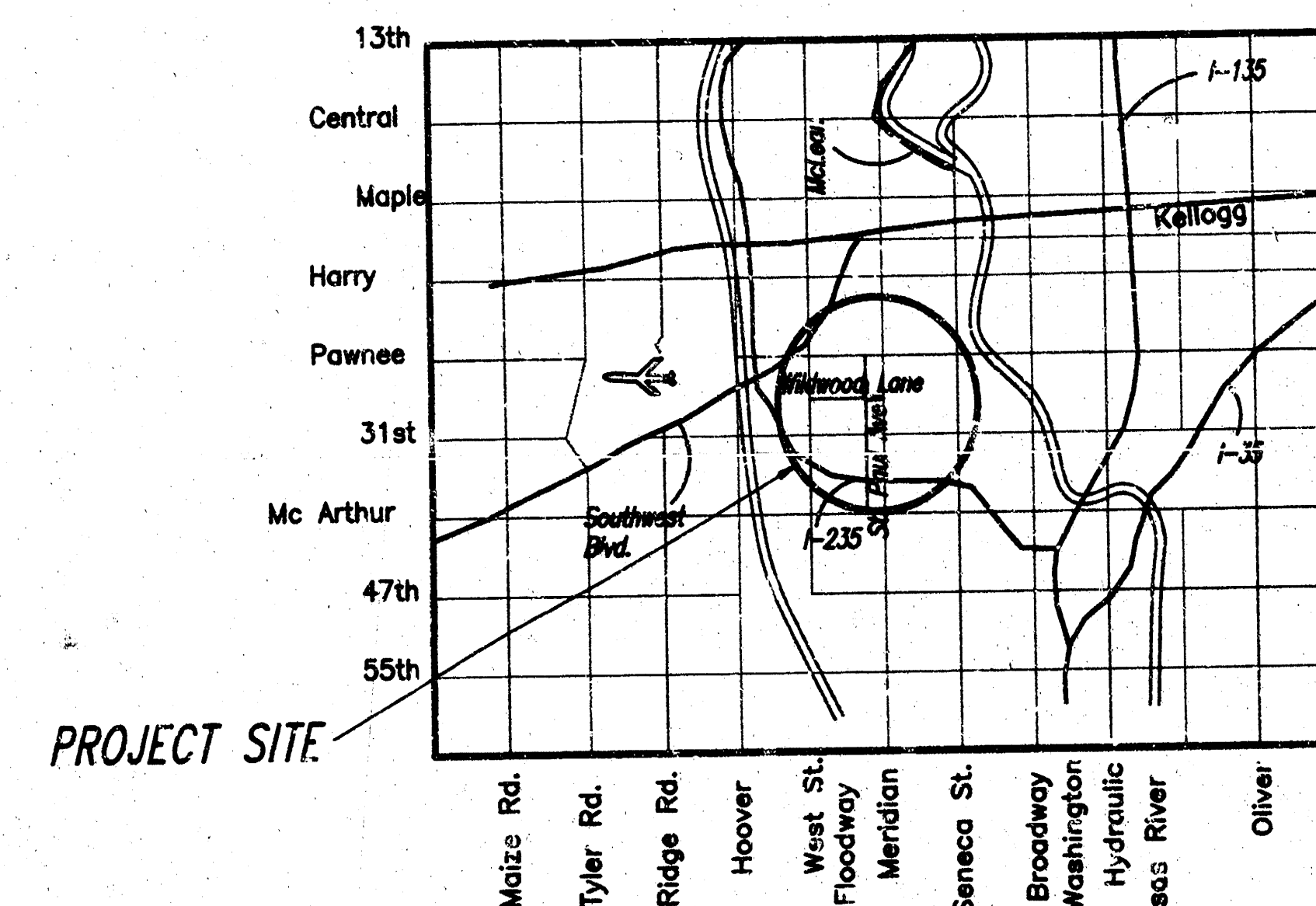
2 - WILDWOOD, FROM ST. PAUL TO RICHMOND
PROJECT No. 472-82862
INDEX CODE : 764621

INDEX:

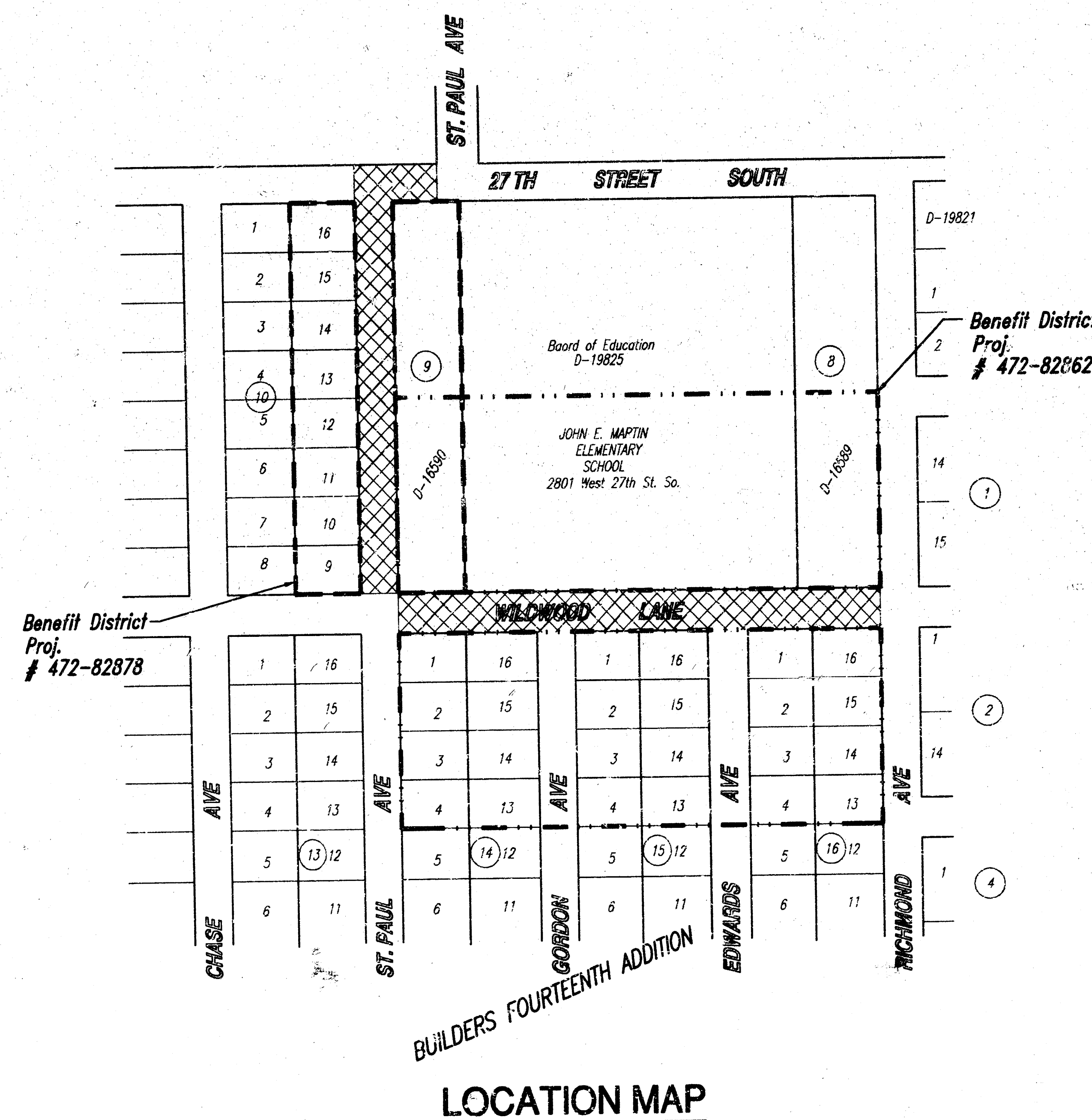
SHEET 1	TITLE SHEET
SHEET 2	TYPICAL PAVEMENT SECTION
SHEET 3-6	PLAN SHEETS
SHEET 7	INTERSECTION
SHEET 8	TYPICAL VALLEY GUTTER DETAIL SHEET
SHEET 9	DRIVE ENTRANCE DETAIL SHEET
SHEET 10-13	X-SECTIONS

PROJECT LENGTH:

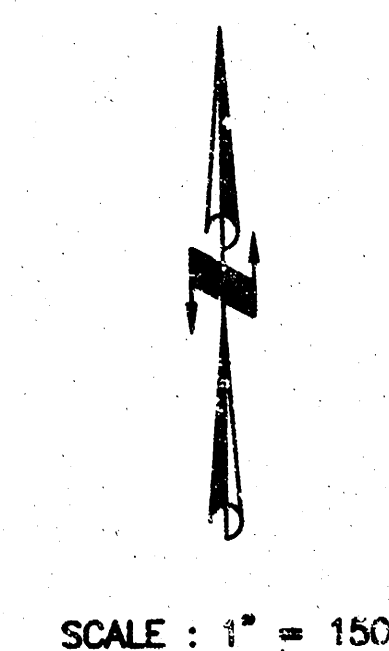
STREET	LENGTH
St. Paul Ave.	634.72'
Wildwood Lane	749.90'
27th Street South	135.47'
TOTAL	1520.09'



KEYMAP



LOCATION MAP

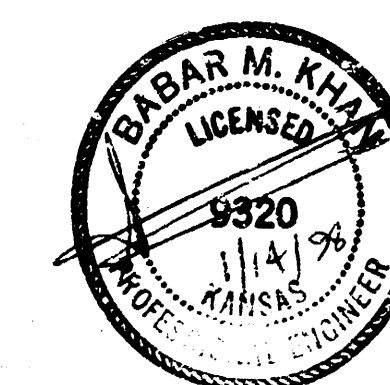


BENCH MARKS:

- BM # 1.
Square cut on B/C, 1' E. of inlet @ the E. end of the NE return at the intersection of 27th St. N. & St. Paul (N. of 27th St. N.)
Elev. = 39.49
- BM # 2.
Square cut on B/C @ W. end of SW return at the intersection of St. Paul & Wildwood.
Elev. = 100.95
- BM # 3.
Square cut on B/C @ center of SE return at the intersection of Richmond & Wildwood.
Elev. = 99.36

EARTHWORK SUMMARY

Wildwood Project # 472-82862	
Excavation	= 1,090 C.Y.
Loose Fill	= 206 C.Y.
St. Paul Project # 472-82878	
Excavation	= 1,910 C.Y.
Loose Fill	= 100 C.Y.

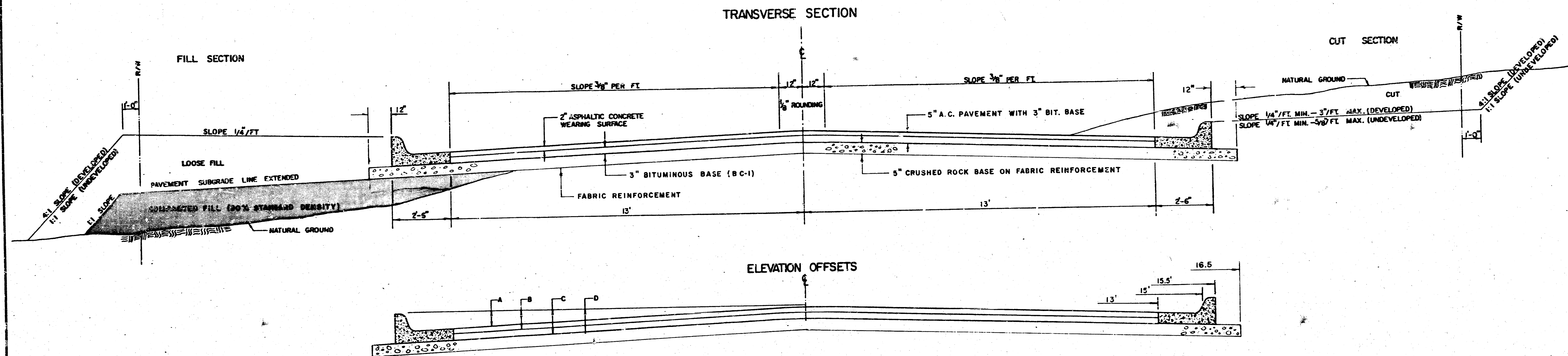


TITLE SHEET

SCALE:	APPROVED:	DRAWN BY: S.A.
DATE:		CHECKED: R.K.
PROJECT NO:		SHEET NO:
97-163 (MUNICIPAL)		1 OF 13
MUNICIPAL ENGINEERS		
254-LAURA, SUITE 201		
WICHITA, KANSAS 67211		
316-262-3842		

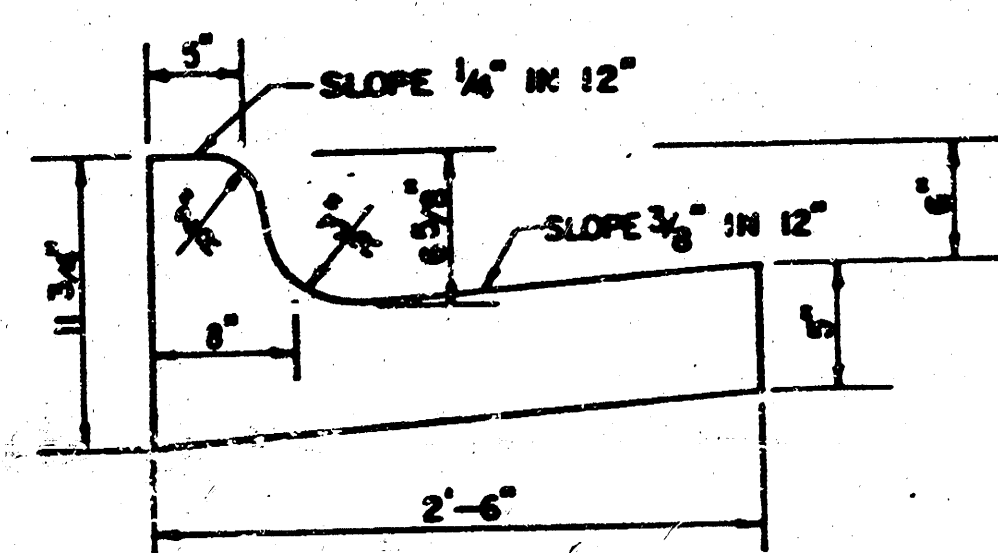
TYPICAL 31' PAVEMENT DETAILS

2
13

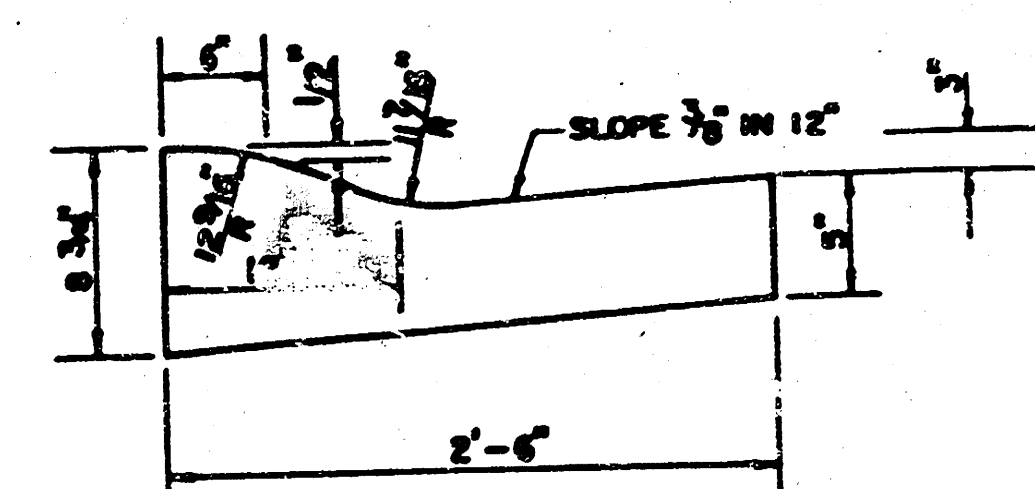


	DISTANCE FROM CENTERLINE (LT. & RT.)											
	0'	2'	4'	6'	7.5'	10'	12'	15'	15.5'	15.67'	16.17'	
A. TOP OF CURBS TO TOP OF SURFACE LIFT	.10	.14	.21	.27	.32	.39	.46	.49	---	---	---	---
B. TOP OF CURBS TO TOP OF BASE LIFT	.27	.31	.37	.44	.48	.56	.62	.65	---	---	---	---
C. TOP OF CURBS TO TOP OF ROCK BASE	.52	.56	.63	.69	.74	.81	.88	.91	.97	.98	.99	---
D. TOP OF CURBS TO TOP OF SUBGRADE												

COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

FABRIC BASE REINFORCEMENT SHALL BE 6 x 1100 BY TENSAR OR APPROVED EQUAL.
FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1-1/2\"/>

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACK COAT WILL NOT BE APPLIED TO ROCK BASE.

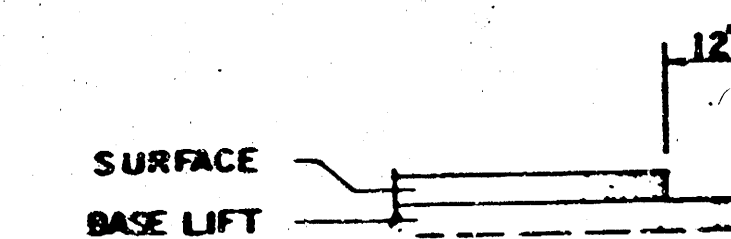
A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQUARE YARD BETWEEN EACH LIFT OF ASPHALTIC MATERIAL.

BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR LINE AND GRADE.

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.

THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 5\"/>

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 5\"/>

472-82878

472-82862

REVISED 1-3-92 JKB

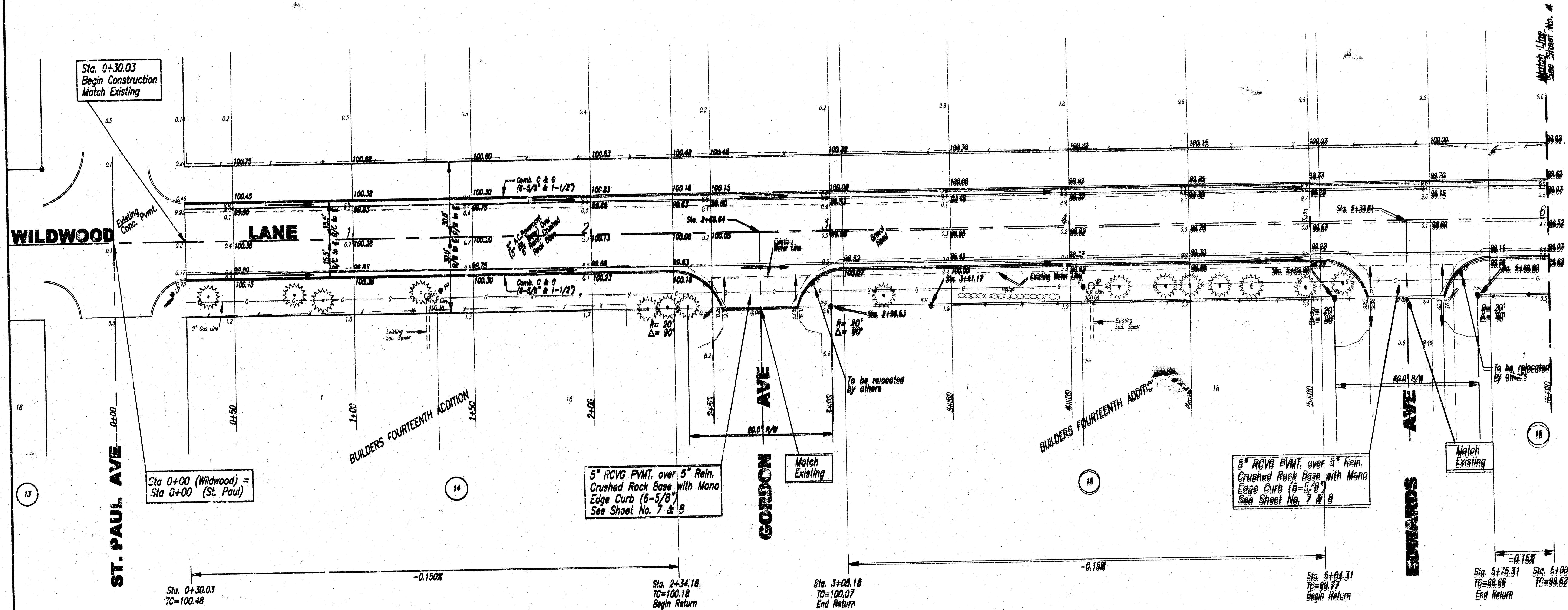
REVISED 10-31-96 JKB

5\"/>

LEGEND

- Iron Pin or Rebar
- Light Pole
- Power Pole
- Manhole
- Sign
- Bushes
- Tree
- Remove & Replace Existing Conc. Driveway
- Fence
- Gas Line
- Sewer Line
- Water Line

SCALE: 1" = 20'

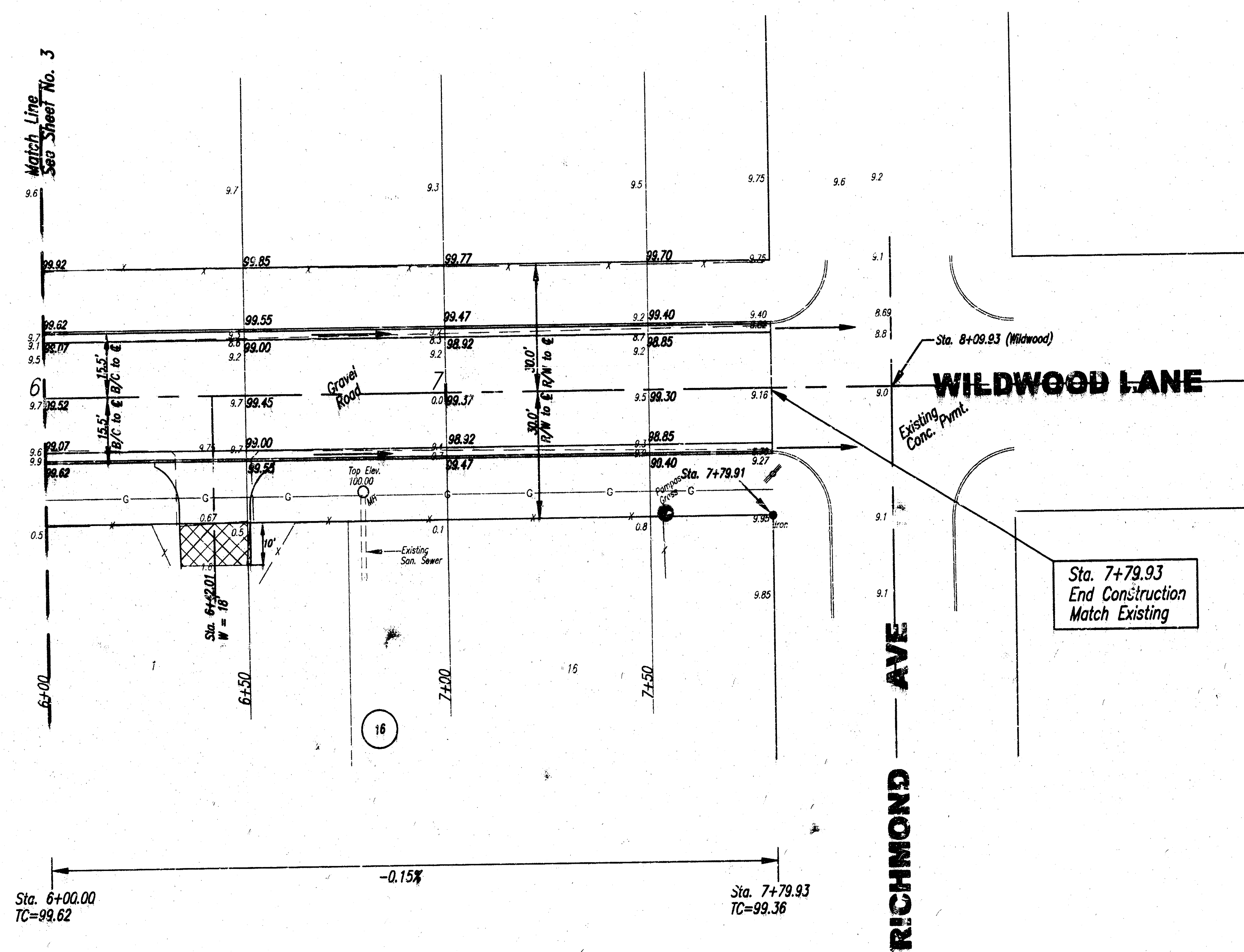


Plan Sheet Wildwood Lane

SCALE:	APPROVED:	DRAWN BY:
DATE:	CHECKED:	SHEET NO.:
PROJECT NO.:	97-162	3 OF 13

MUNICIPAL ENGINEERS
204 LAURA SUITE 801
WICHITA, KANSAS 67211
318-242-3442

SCALE: 1" = 20'



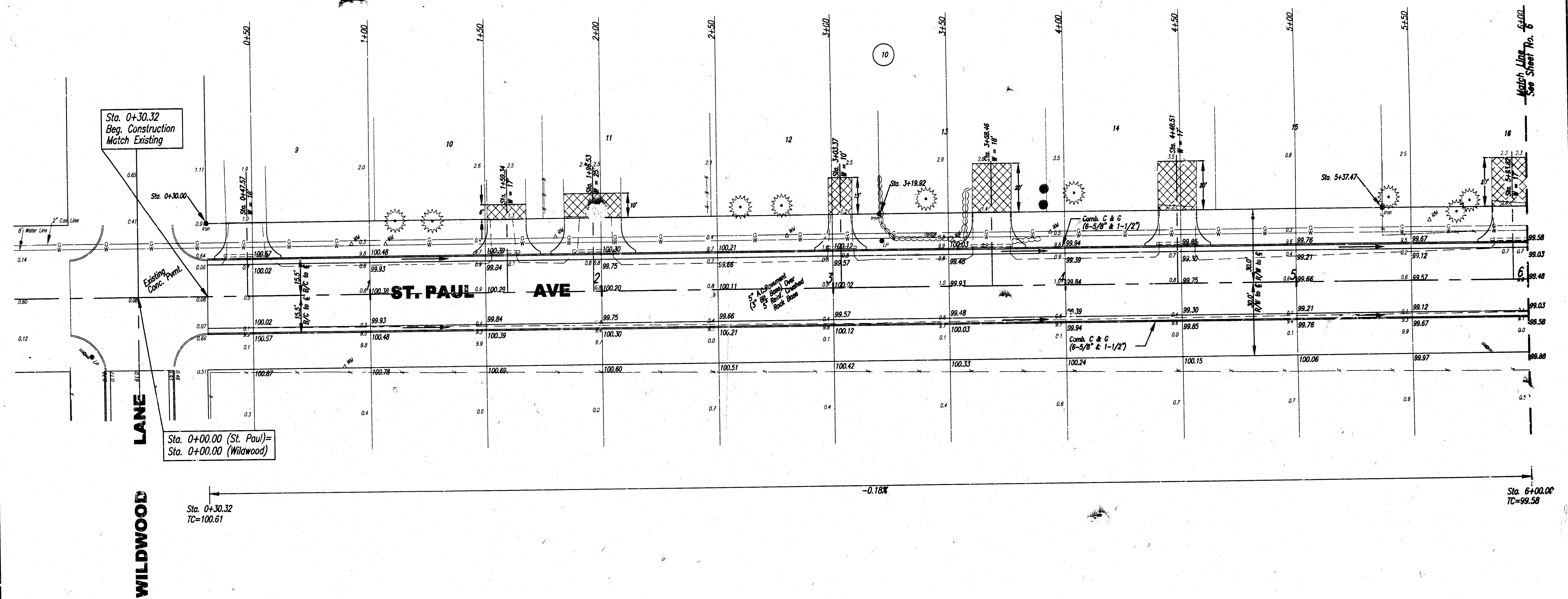
Note:
Warp pavement from full crown @ Sta.
7+50.00 to Sta. 7+79.93

Plan Sheet
Wildwood Lane

SCALE:	APPROVED:	DRAWN BY:
DATE:	CHECKED:	SHEET NO. 1
PROJECT NO. 97-163		4 OF 13

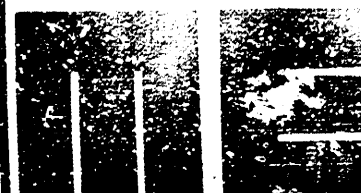
MUNICIPAL ENGINEERS
254-LAURA, SUITE 201
WICHITA, KANSAS 67211
316-262-3842

SCALE: 1" = 20'

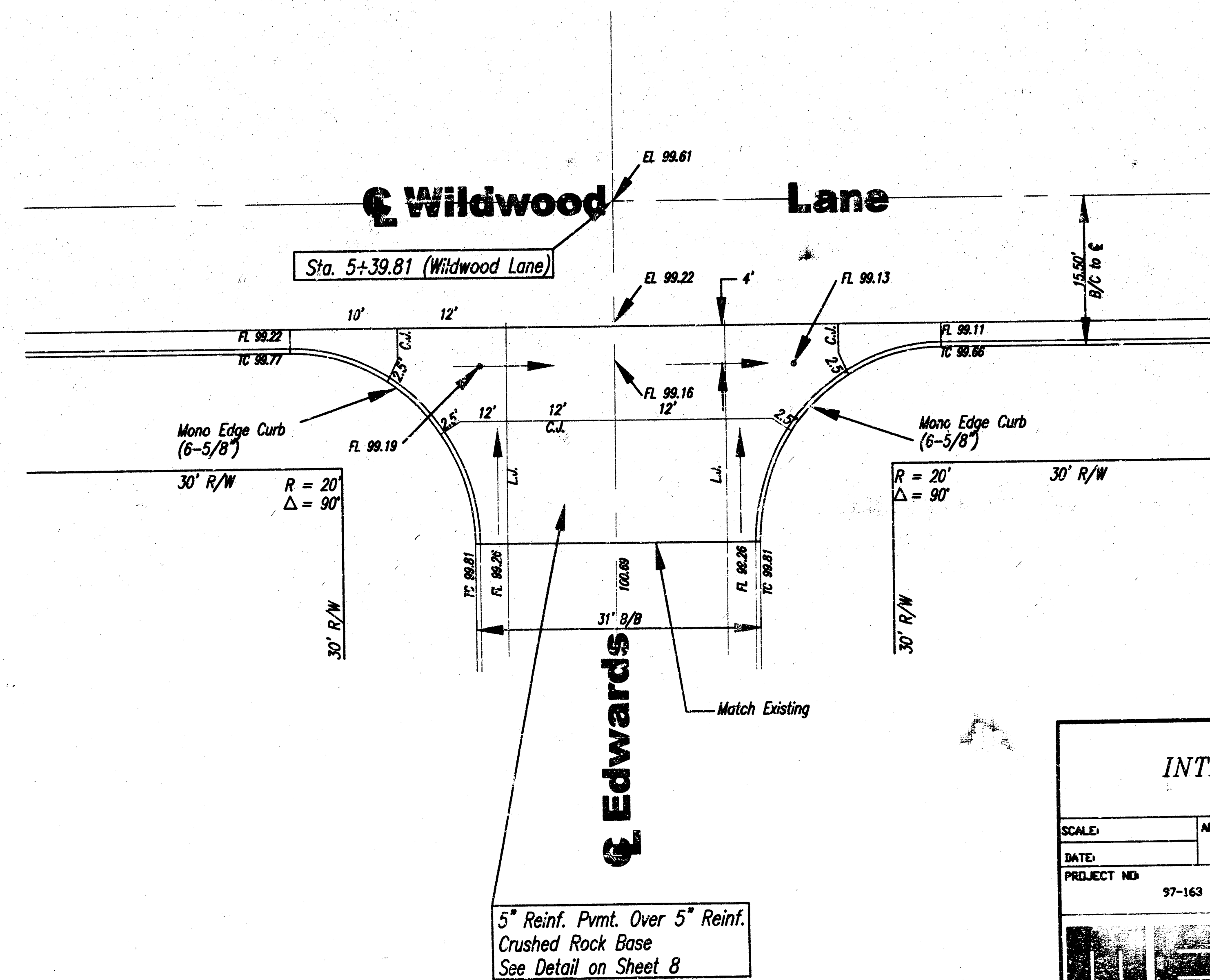
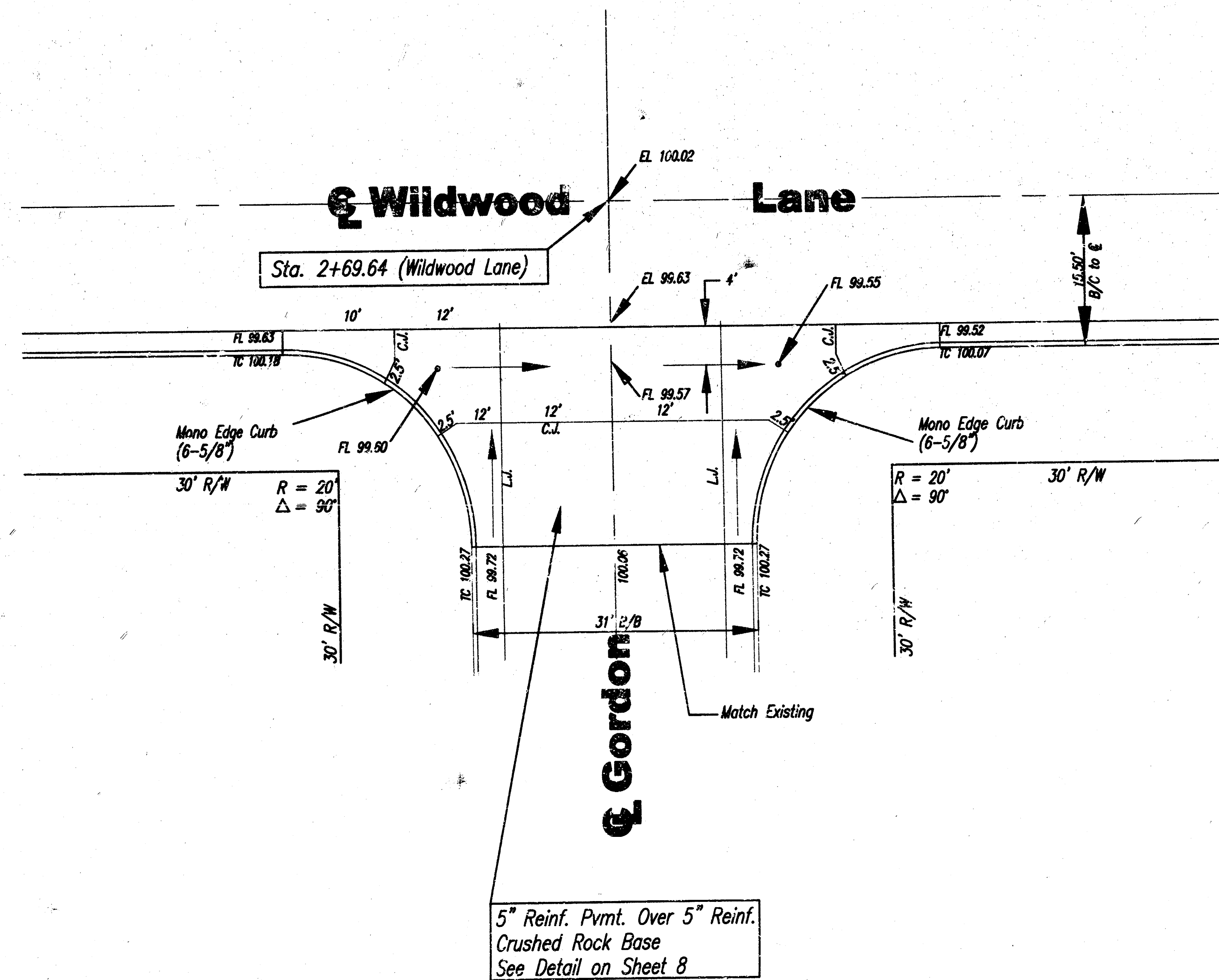
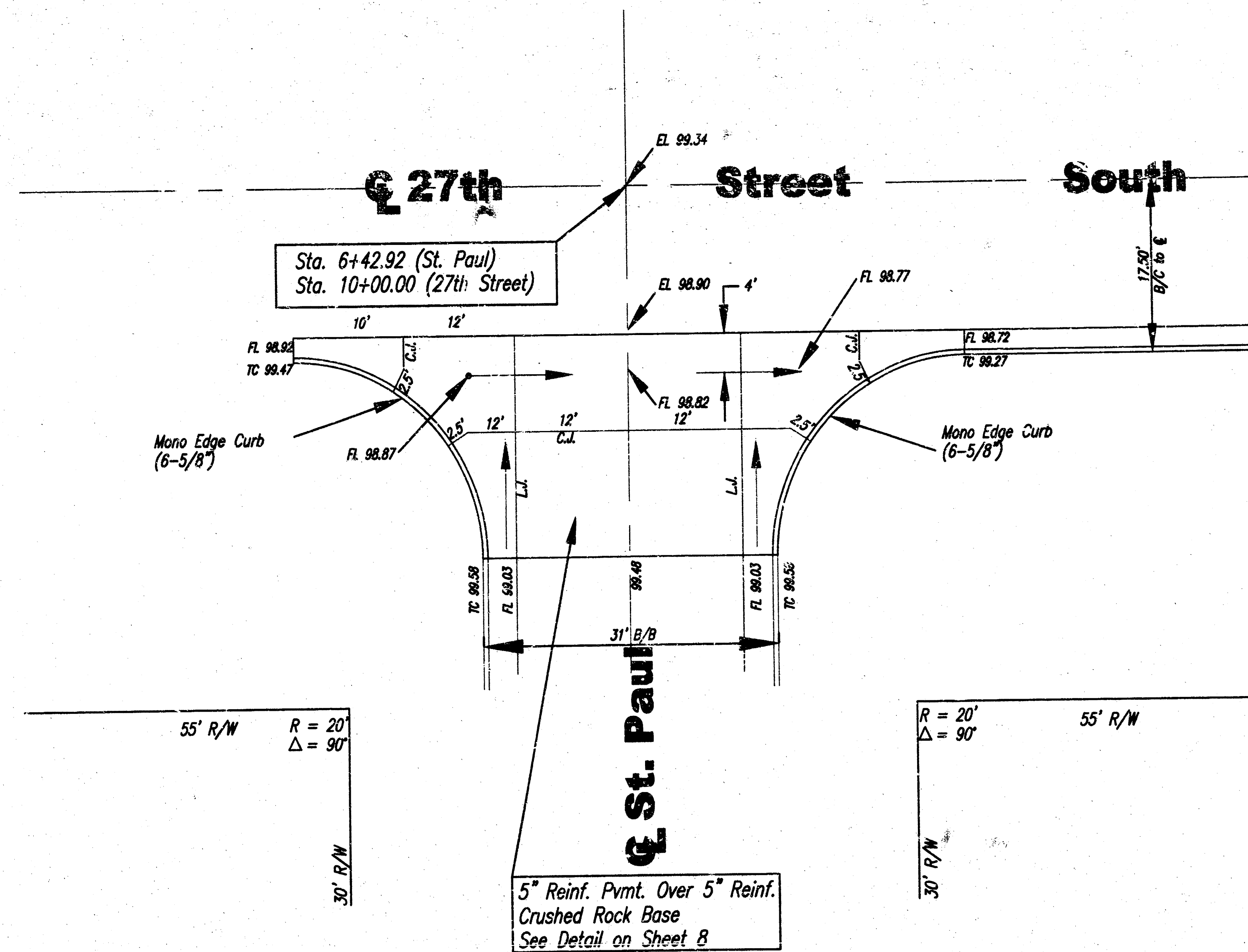


Note:
Warp Pavement from Sta. 0+30.32 to Full
Crown @ Sta. 0+80.00.

Plan Sheet
St. Paul Ave.

SCALE:	APPROVED:	DRAWN BY:
DATE:	CHECKED:	
PROJECT NO:	97-163	SHEET NO. 5 OF 13
 MUNICIPAL ENGINEERS 254-LAURA, SUITE 201 WICHITA, KANSAS 67211 316-252-3842		

SCALE: 1" = 10'



INTERSECTION DETAILS

SCALE:	APPROVED:	DRAWN BY:
DATE:	CHECKED:	
PROJECT NO:	97-163	SHEET NO. 7 OF 13

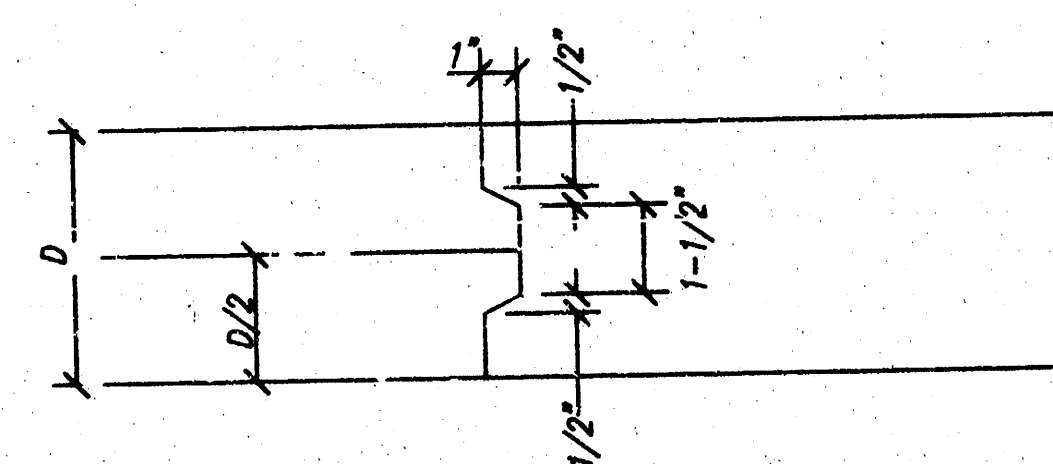
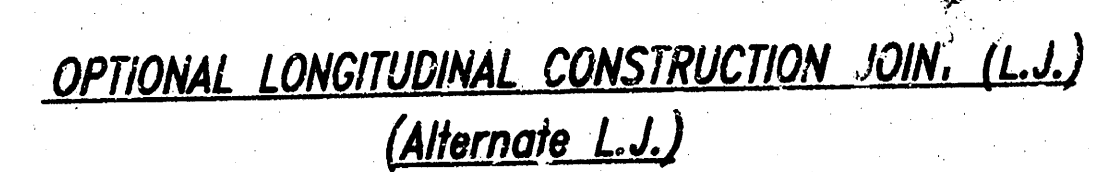
Municipal Engineers
254-Laura, Suite 201
Wichita, Kansas 67211
316-262-3842



Diagram illustrating the components and dimensions of a Hot Poured Joint Sealer (ASTM D1190) applied to a joint. The diagram shows a cross-section of the joint and the sealer application. Key components and dimensions include:

- Hot Poured Joint Sealer (ASTM D1190):** The material applied to the joint.
- Band Break Tape:** A tape applied to the joint.
- Wire Fabric:** A fabric reinforcement applied to the joint.
- Dimensions:**
 - D : Diameter of the joint.
 - $D+2$: Diameter of the sealer application.
 - $3/4"$: Thickness of the sealer application.
 - $3'$: Length of the sealer application.
 - $1"$: Non-Extruding Expansion Jt. Filler.

Note:
Extra Thickness to be subsidiary to
Price of Sq. Yds. Pavement.



The diagram illustrates a cross-section of a wire-wound pressure vessel. It shows a central core with a diameter of D_{14} . A layer of wire fabric is wound around this core. A section line A-A is indicated, with a distance of $2\frac{1}{2}$ inches from the core to the section line. The section line is labeled "Saw Cut & Seal" and "Saw Detail A". The thickness of the wire fabric layer is denoted as F^* (1/2").

C.J. Identifies Contraction Joint
L.J. Identifies Longitudinal Joint

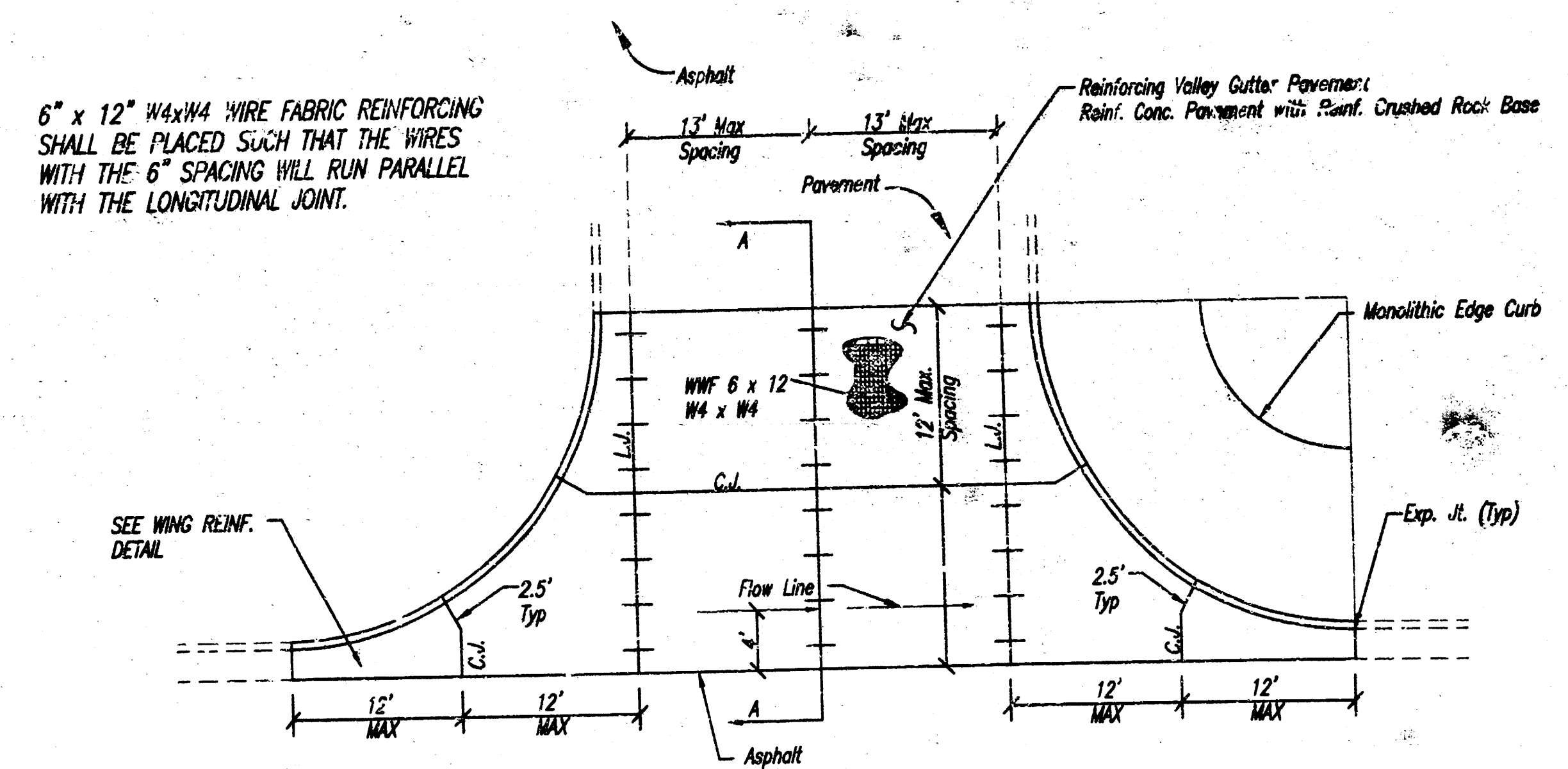


Diagram illustrating the cross-section of a valley gutter flow line. The diagram shows a cross-section of a road with a central gutter. Key components and labels include:

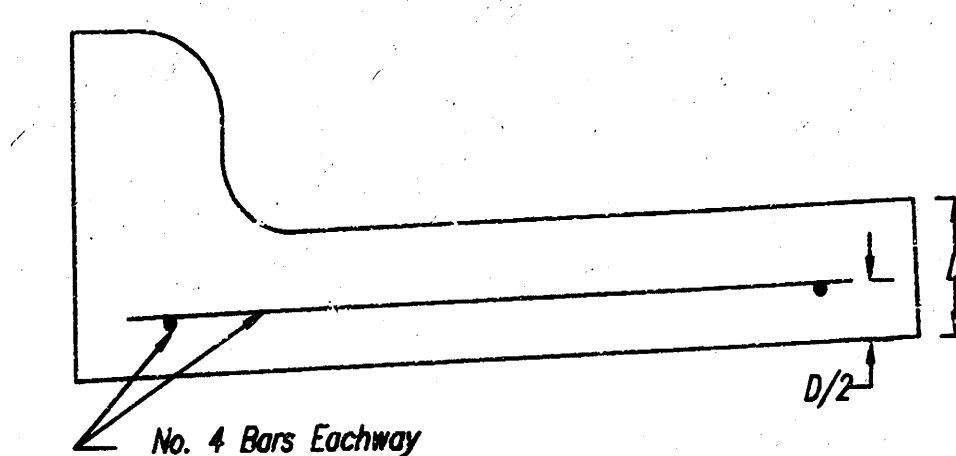
- Radius Return Radius Point**: Indicated at the top right of the diagram.
- Varies**: A dimension line indicating a variable width.
- Valley Gutter Flow Line**: The central line of the gutter.
- Concrete**: The material forming the gutter walls.
- Slope Varies**: A dimension line indicating a variable slope.
- 2-1/2" Gr.**: A dimension indicating a 2.5-inch layer of gravel.
- Reinforced Crushed Rock Base**: The base layer of the road.
- Subgrade Treatment**: The bottom layer of the road.
- W#6 6 x 12** and **#4 x W4**: Reinforcement details for the concrete.

Diagram illustrating the reinforcement details for a beam cross-section. The beam has a total width of 2'-6" and a height of 3'-0". The reinforcement includes:

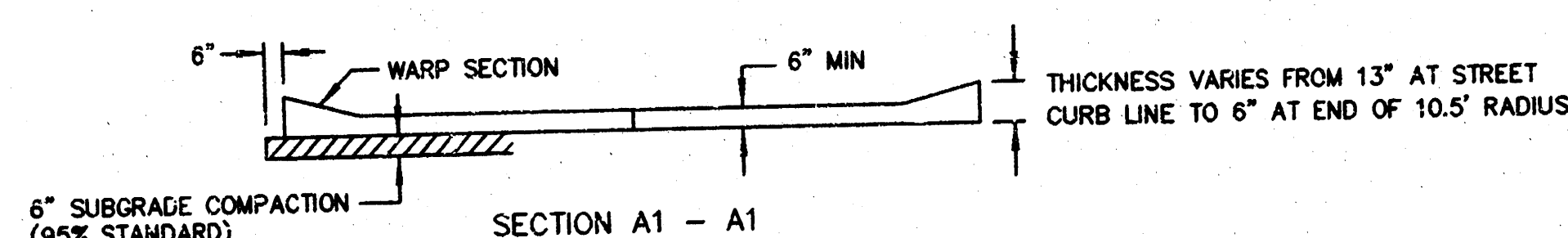
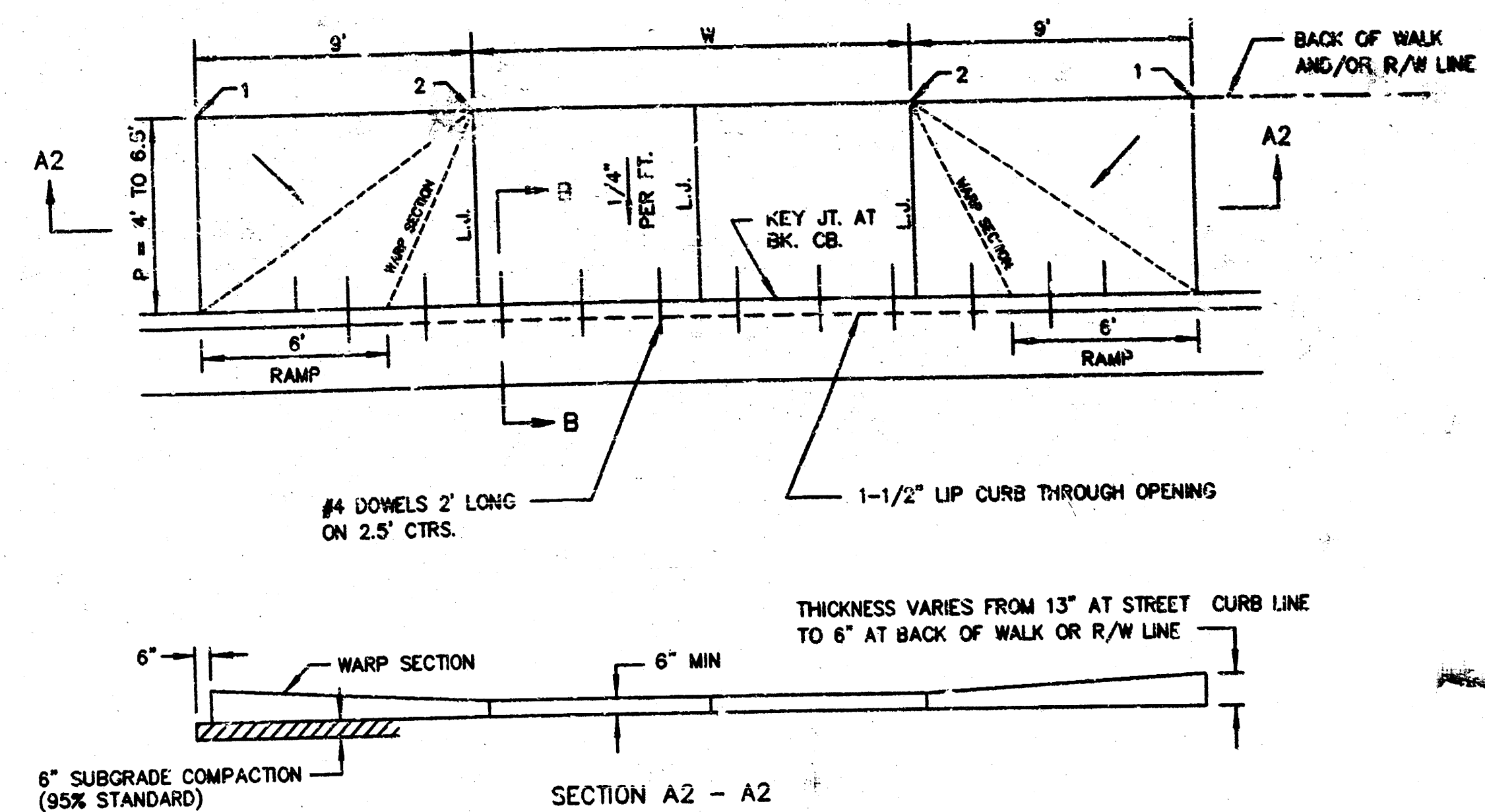
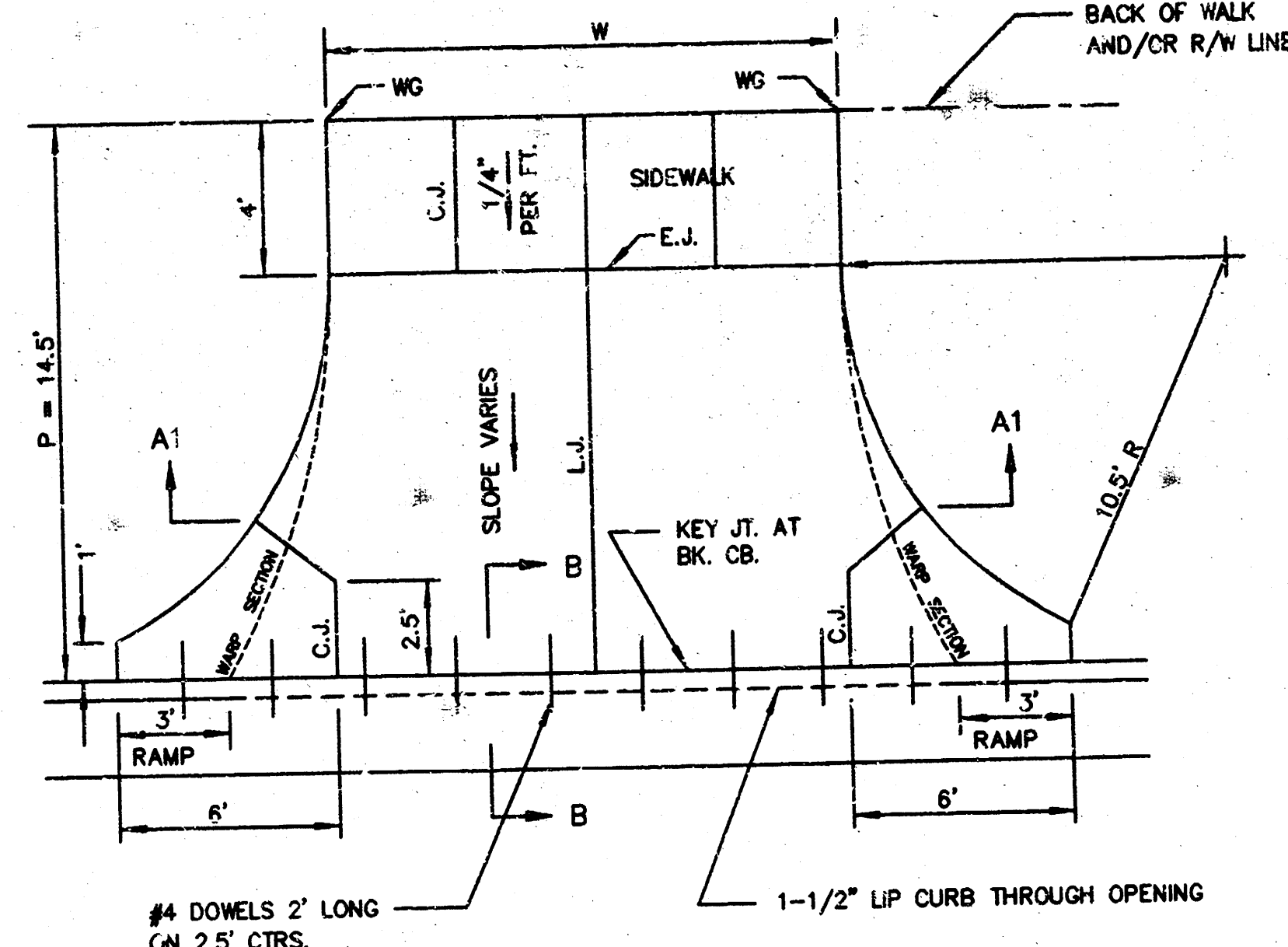
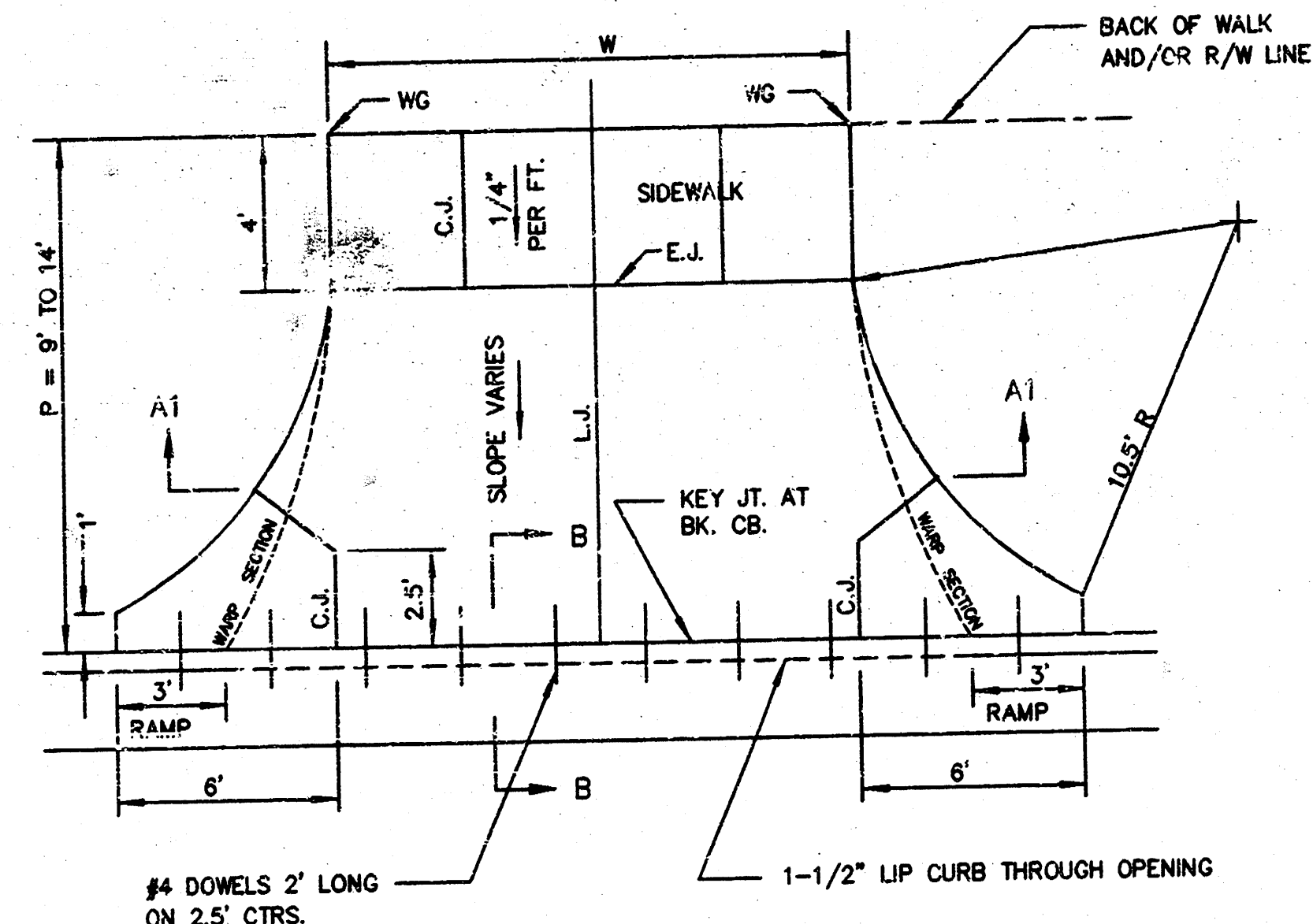
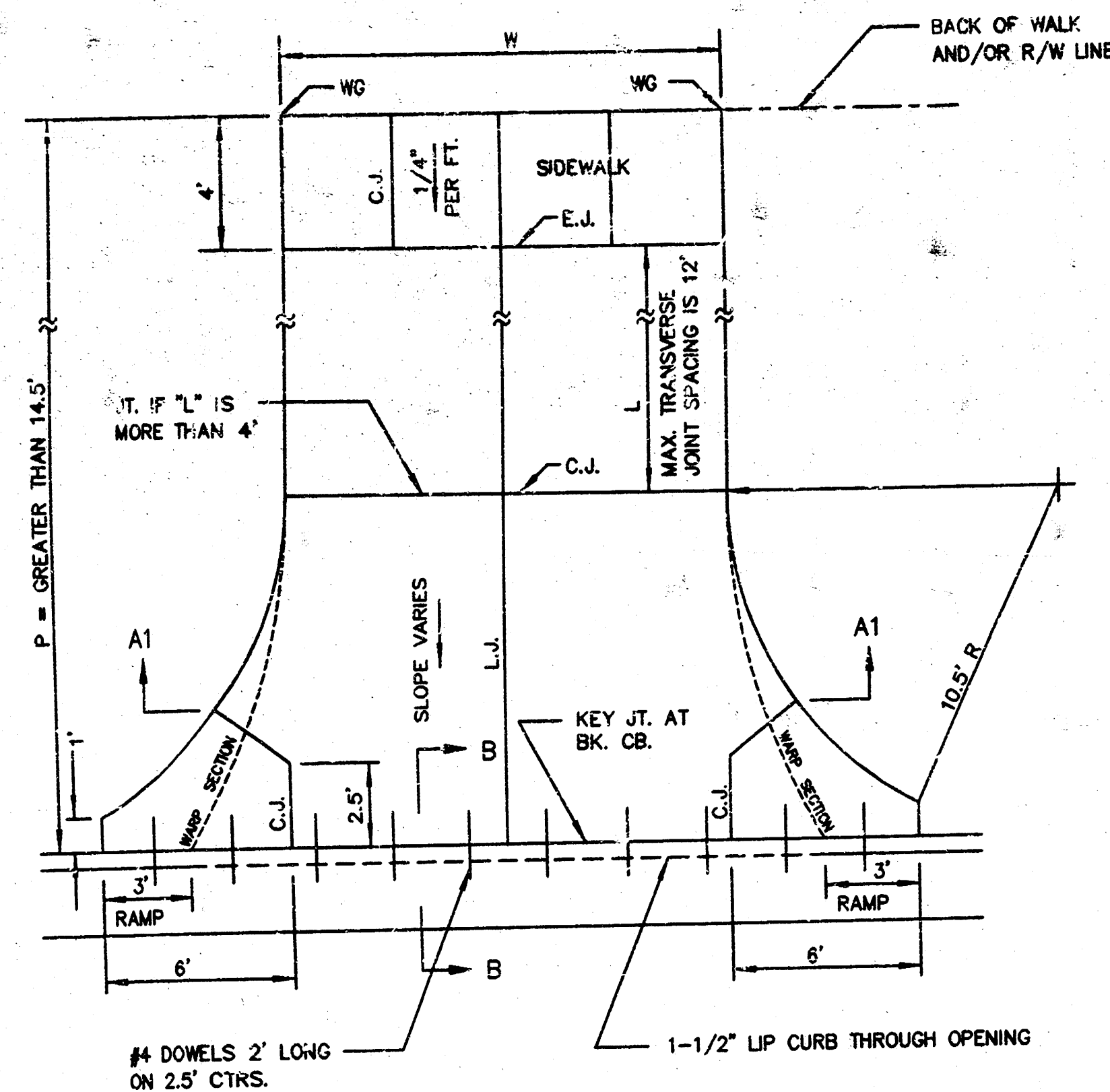
- Top reinforcement: 4 bars cut to fit.
- Top clear space: 3" Clear (Typ).
- Right side reinforcement: 3 bars.
- Bottom reinforcement: 4 bars on 12" Ctr's Cut to fit (Typ).
- Bottom clear space: 1'-1/2" Clear (Typ).

A horizontal arrow labeled **B** points to the left, and a vertical arrow labeled **R** points upwards.

Note: Omit Wire fabric reinforcing in this section.

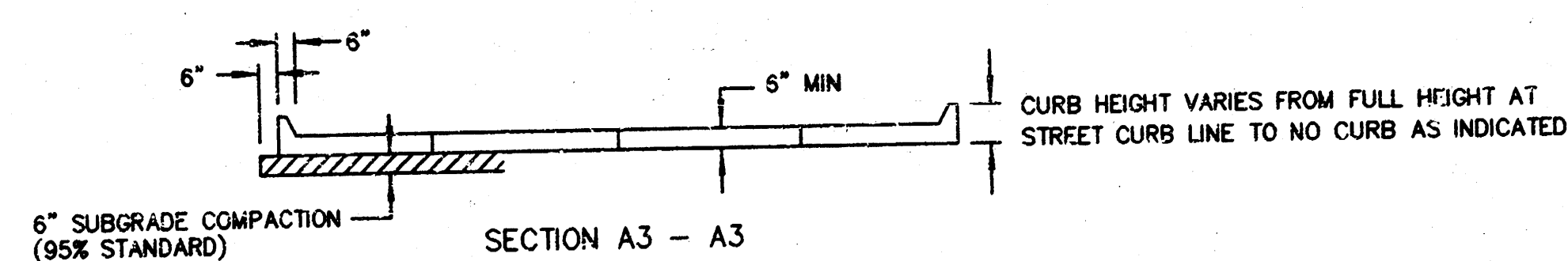
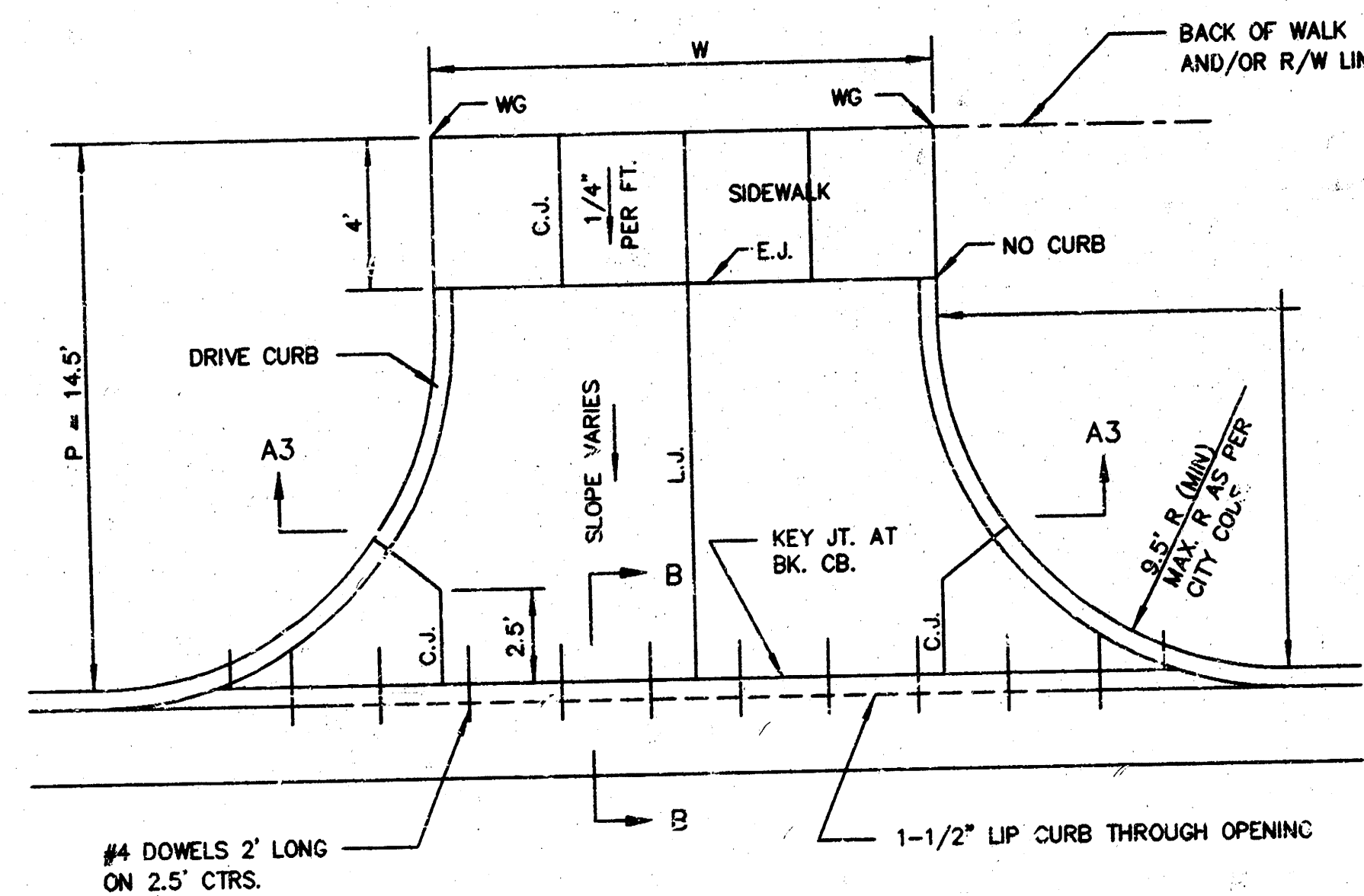
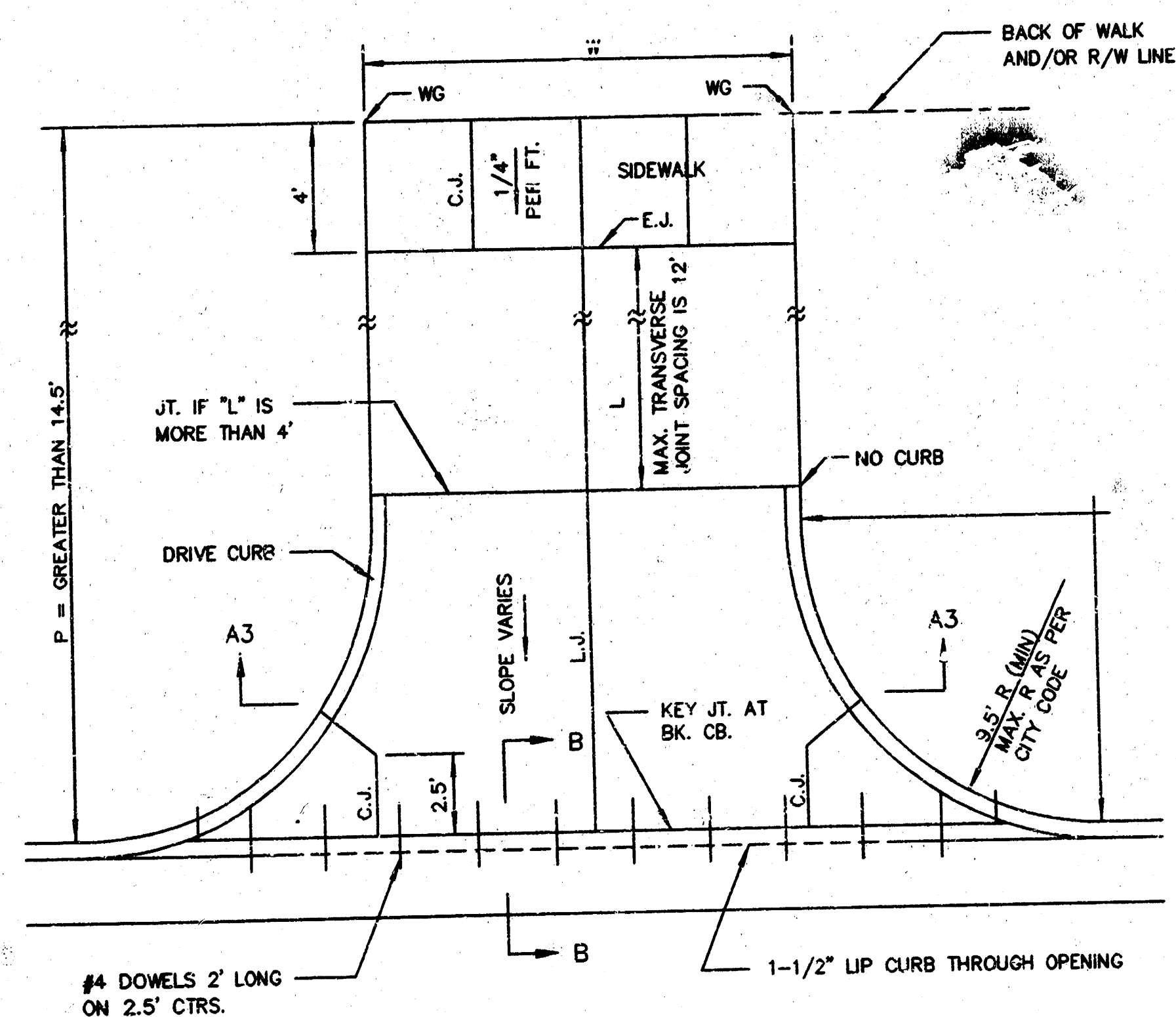

$$D = 5''$$

VALLEY GUTTER DETAILS



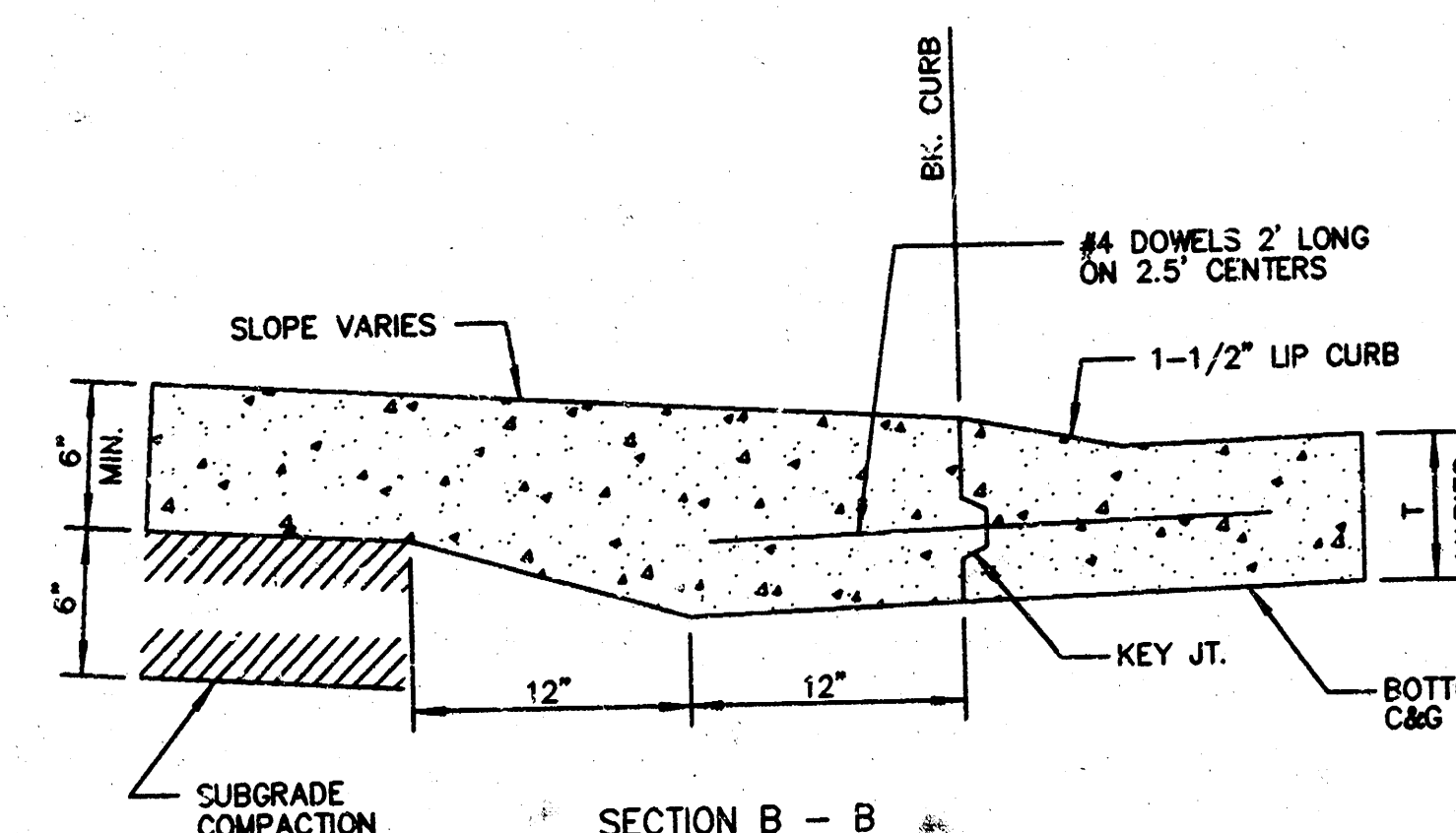
PARKING WIDTH "P"	9'	10'	11'	12'	13'	14.5'	20'	25'	30'	35'	40'	45'	50'
ABSOLUTE MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.27'	0.27'	0.32'	0.37'	0.52'	0.80'	1.35'	1.85'	2.35'	2.85'	3.35'	3.85'	4.35'
OPTIMUM MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.27'	0.27'	0.32'	0.37'	0.52'	0.80'	1.35'	1.85'	2.35'	2.85'	3.35'	3.85'	4.35'
OPTIMUM MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.19'	0.21'	0.23'	0.25'	0.30'	0.42'	0.52'	0.62'	0.72'	0.82'	0.92'	1.02'	1.02'
ABSOLUTE MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	-0.19'	-0.16'	-0.13'	-0.10'	-0.06'	0.00'	0.00'	0.15'	0.25'	0.35'	0.45'	0.55'	0.65'

RADIUS RAMP DRIVES (P = 9.0' & GREATER)

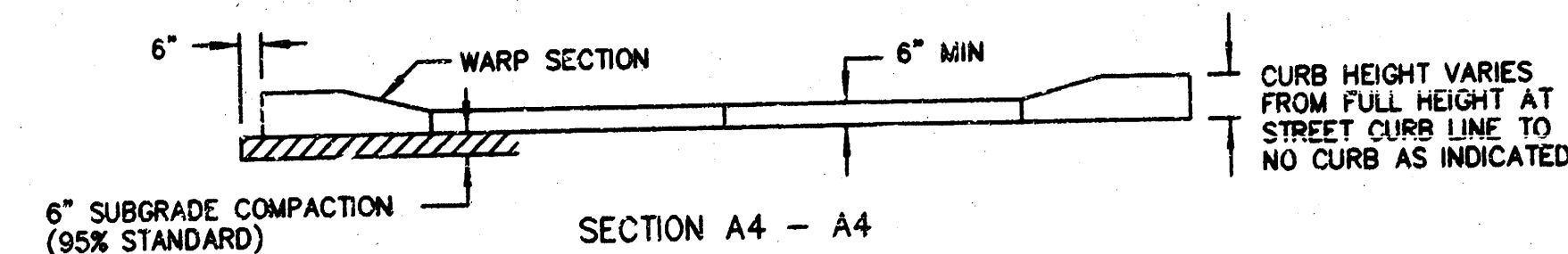
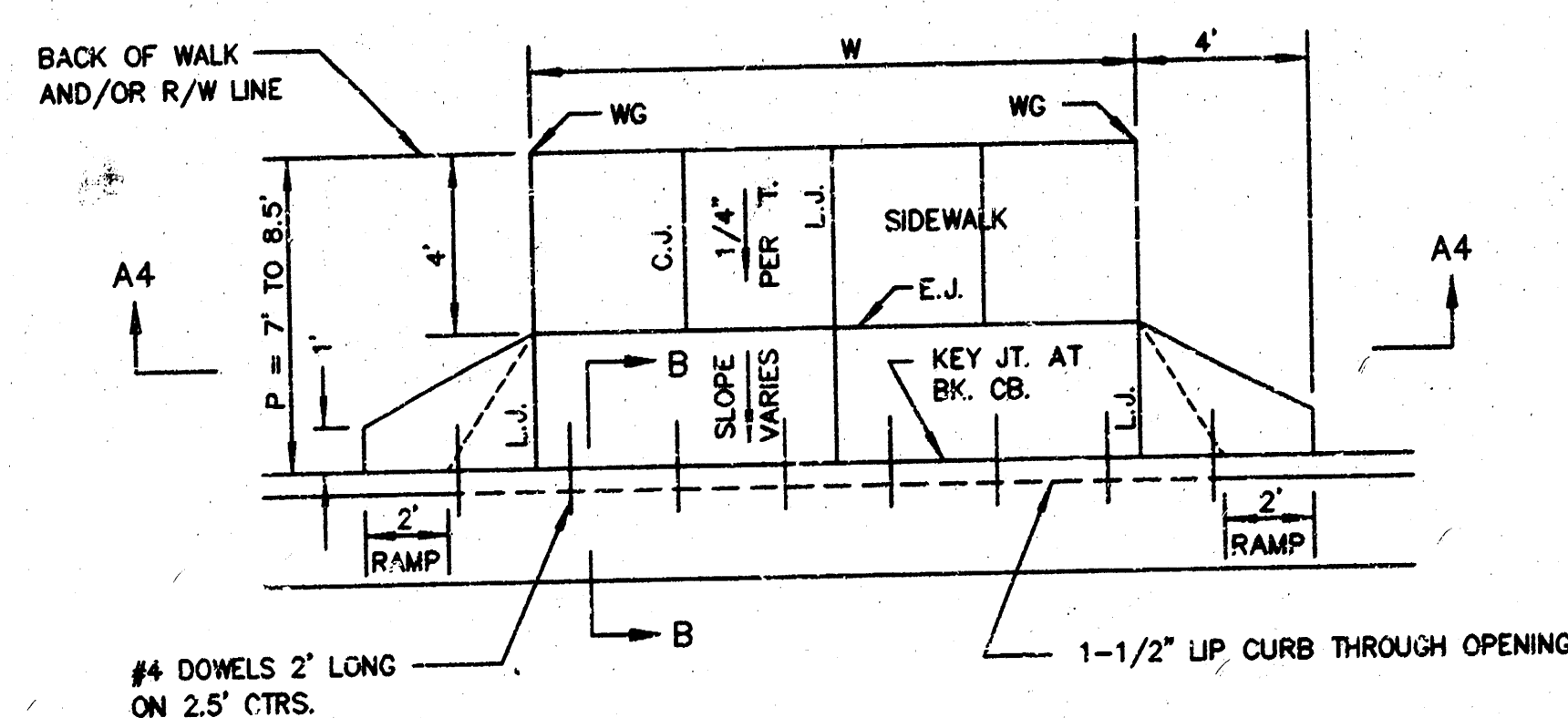
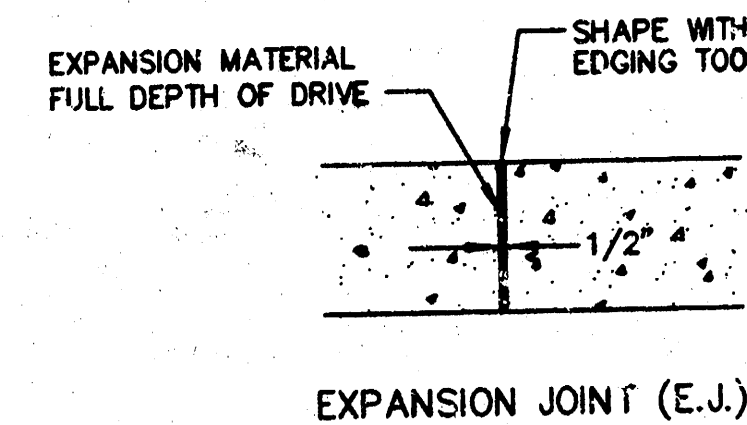
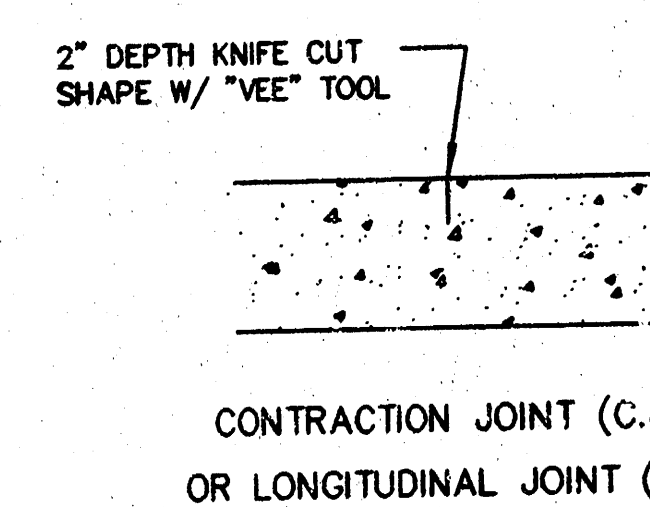


PARKING WIDTH "P"	14.5'	20'	25'	30'	35'	40'	45'	50'
ABSOLUTE MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.72'	1.27'	1.77'	2.27'	2.77'	3.27'	3.77'	4.27'
OPTIMUM MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.70'	1.04'	1.30'	1.56'	1.82'	2.08'	2.34'	2.60'
OPTIMUM MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.30'	0.42'	0.52'	0.62'	0.72'	0.82'	0.92'	1.02'
ABSOLUTE MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	0.00'	0.00'	0.15'	0.25'	0.35'	0.45'	0.55'	0.65'

FULL RADIUS DRIVES (P = 14.5' & GREATER)



BACK OF CURB DETAIL

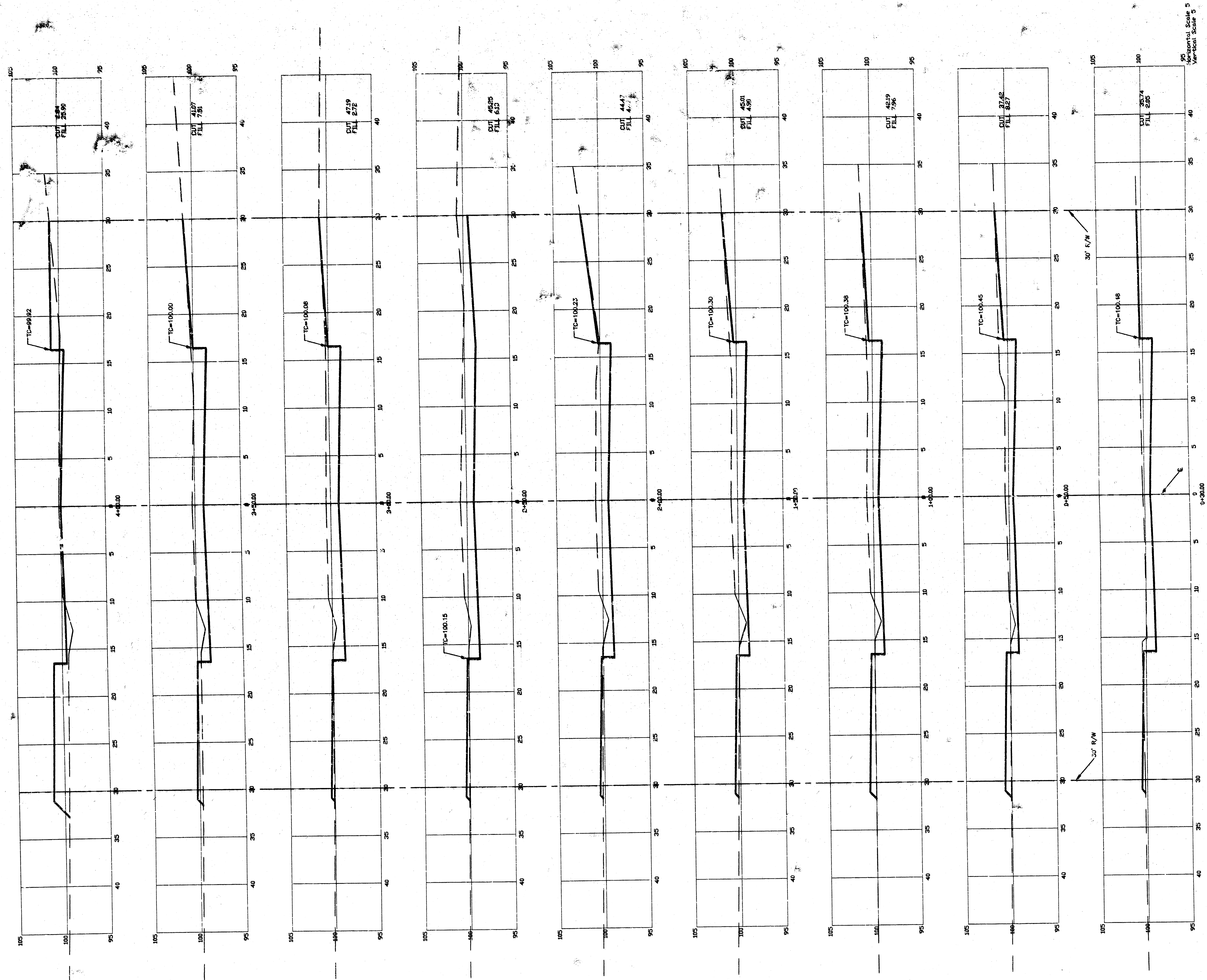


PARKING WIDTH "P"	7'	7.5'	8'	8.5'
ABSOLUTE MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	-0.08'	0.02'	0.18'	0.22'
OPTIMUM MAX. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	-0.08'	0.02'	0.18'	0.22'
OPTIMUM MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	-0.15'	-0.16'	-0.17'	-0.17'
ABSOLUTE MIN. DIST. OF PT. "WG" ABOVE OR BELOW TOP OF FULL CURB	-0.25'	-0.20'	-0.20'	-0.20'

FULL RAMP DRIVE (P = 7.0' TO 8.5')

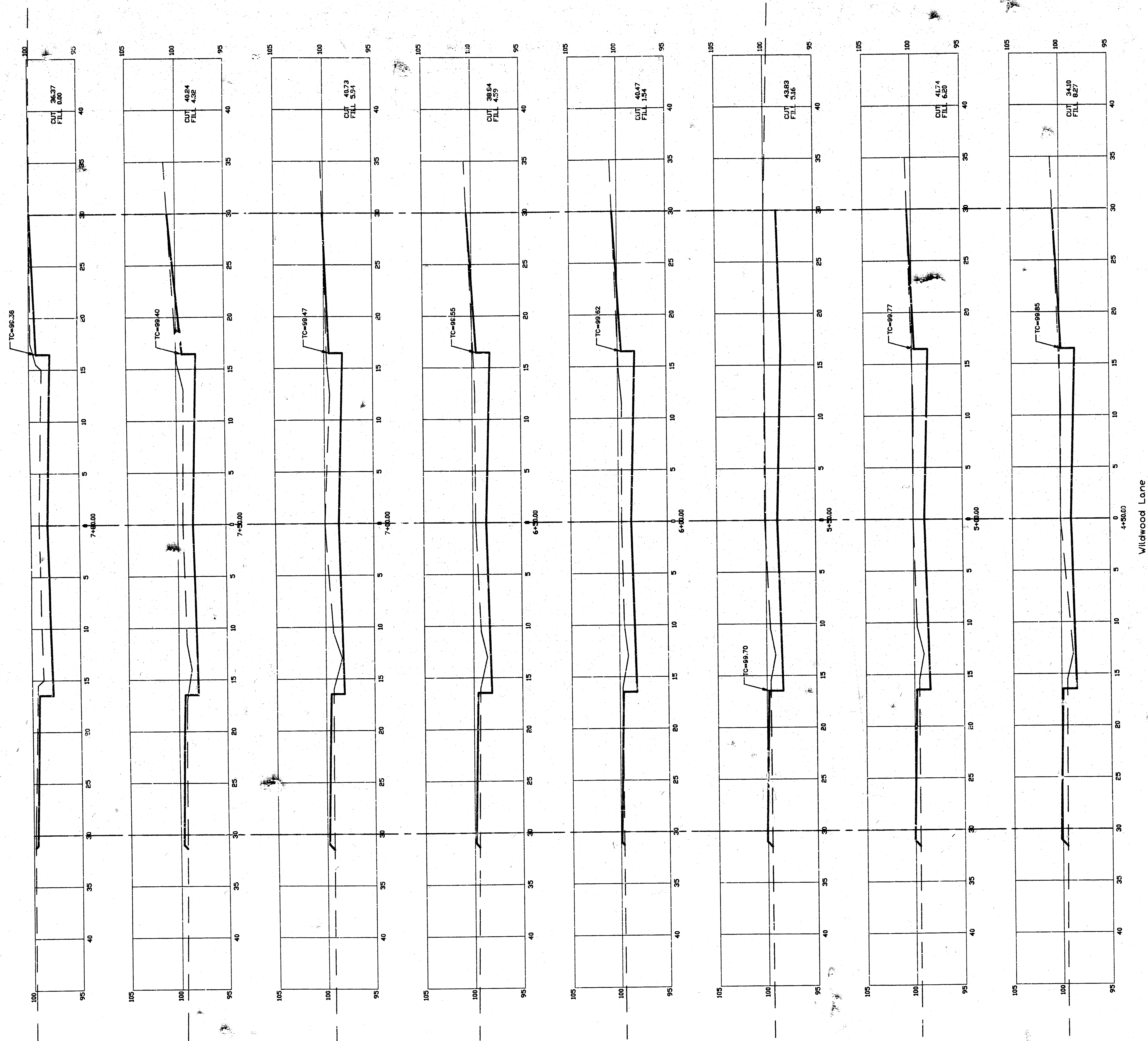
- GENERAL NOTES**
- DRIVEWAY CONSTRUCTION DETAILED ON THIS SHEET IS FOR USE WITH FULL HEIGHT STREET CURBS AND IN AREAS WITHOUT FULL WALK CONSTRUCTION IN THE PARKING. SEE OTHER DETAIL SHEETS FOR DRIVEWAY CONSTRUCTION WITH ROLL CURB AND/OR FULL WALK.
 - ONE LONGITUDINAL JOINT SHALL BE CONSTRUCTED ALONG THE CENTERLINE OF DRIVES HAVING A "W" DIMENSION OF 24' OR LESS. TWO LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITH EQUAL SPACINGS NOT TO EXCEED 10' FOR DRIVES WITH A "W" DIMENSION GREATER THAN 24'.
 - DRIVEWAY WIDTH DENOTED AS "W" ON THE DETAIL DRAWINGS SHALL BE A MINIMUM OF 10' AND A MAXIMUM OF 30'. THE MAXIMUM OPENING FOR RADIUS TYPE DRIVES WITH CURBS THROUGH THE RADIUS SHALL NOT EXCEED 52' AT THE STREET CURB LINE.
 - CONTRACTION JOINT SPACING IN THE DRIVEWAY WALK SECTION SHALL BE A MINIMUM OF 3' AND A MAXIMUM OF 6'. AND ARE TO BE EQUALLY SPACED WITHIN THIS RANGE. WALK SECTION SHALL BE CONSTRUCTED TO THE SAME THICKNESS AS THE DRIVEWAY.
 - DOWEL BARS SHALL BE OMITTED FROM THE KEYED CONSTRUCTION JOINT ALONG THE BACK OF THE STREET CURB LINE WHEN DRIVEWAYS ARE CONSTRUCTED IN CONJUNCTION WITH NEW CONCRETE PAVEMENT CONSTRUCTION.
 - ADDITIONAL THICKNESS OF DRIVE AS INDICATED IN THE DRAWINGS WILL NOT BE PAID FOR DIRECTLY AND THIS COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE DRIVEWAY CONSTRUCTION.
 - ONE HALF INCH EXPANSION JOINTS SHALL BE INSTALLED WHEREVER DRIVE CONSTRUCTION ABUTS SIDEWALK. ONE HALF INCH EXPANSION JOINTS SHALL ALSO BE INSTALLED ALONG THE PROPERTY LINE AND/OR BACK OF WALK LINE WHEN DRIVE CONSTRUCTION ALONG THIS LINE ABUTS CONCRETE PARKING LOTS OR CONCRETE DRIVE EXTENSION.
 - ALL DRIVEWAYS SHALL BE A MINIMUM OF 6" IN THICKNESS AND SHALL BE WITHOUT REINFORCEMENT. DRIVEWAYS MAY BE CONSTRUCTED THICKER THAN 6" AND MAY BE REINFORCED WITH 6"x12" W4-W6 WELDED WIRE FABRIC WHEN PROPERLY AUTHORIZED BY THE PROPERTY OWNER WITH THE ENGINEER'S CONCURRENCE.
 - OPTIMUM DRIVEWAY ELEVATIONS SHOWN IN THE TABLES ARE TO BE USED WHEREVER POSSIBLE. ABSOLUTE MAXIMUM AND MINIMUM ELEVATIONS ARE TO BE USED ONLY WHEN THESE VALUES WILL PERMIT NEW CONSTRUCTION TO MATCH EXISTING DRIVES OR PARKING LOTS. VALUES SHOWN IN THE TABLES ARE BASED ON A FULL CURB HEIGHT ELEVATION OF 0.55' ABOVE THE GUTTER FLOW LINE AND MUST BE ADJUSTED ACCORDINGLY FOR OTHER CURB HEIGHTS. VALUES SHOWN IN THE TABLES WITH MINUS SIGNS INDICATE ELEVATIONS BELOW TOP OF FULL HEIGHT CURB.

THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 265 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 266-4200 (316) 266-6116 FAX		STANDARD DRIVE ENTRANCES FULL HEIGHT CURB M. E. LINDEBAK P.E. - CITY ENGINEER PROJECT NUMBER _____ INDEX CODE _____ DATE _____ MAR 96	
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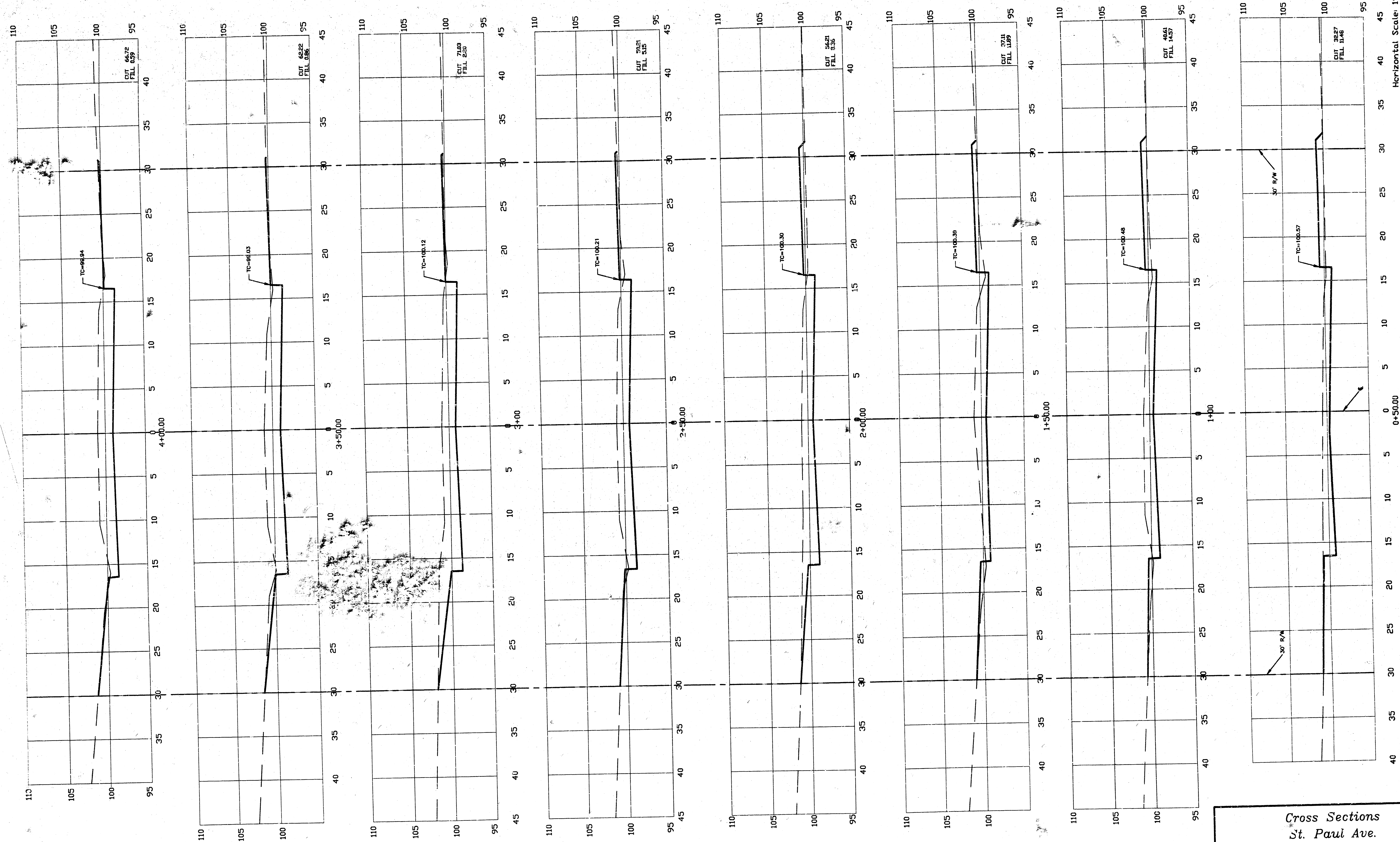


Wildwood Lane

Cross Sections Wildwood Lane		
SCALE	APPROVED	DRAWN BY
DATE	CHECKED	SHEET NO.
PROJECT NO.	97-163	10 OF 13
 MUNICIPAL ENGINEERS 254-LAURA, SUITE 201 WICHITA, KANSAS 67211 316-262-3842		



Cross Sections Wildwood Lane		
SCALE:	APPROVED:	DRAWN BY:
DATE:	CHECKED:	CHECKED:
PROJECT NO:	SHEET NO. 11 OF 13	
 MUNICIPAL ENGINEERS 254-LAURA, SUITE 201 WICHITA, KANSAS 67211 316-262-3842		



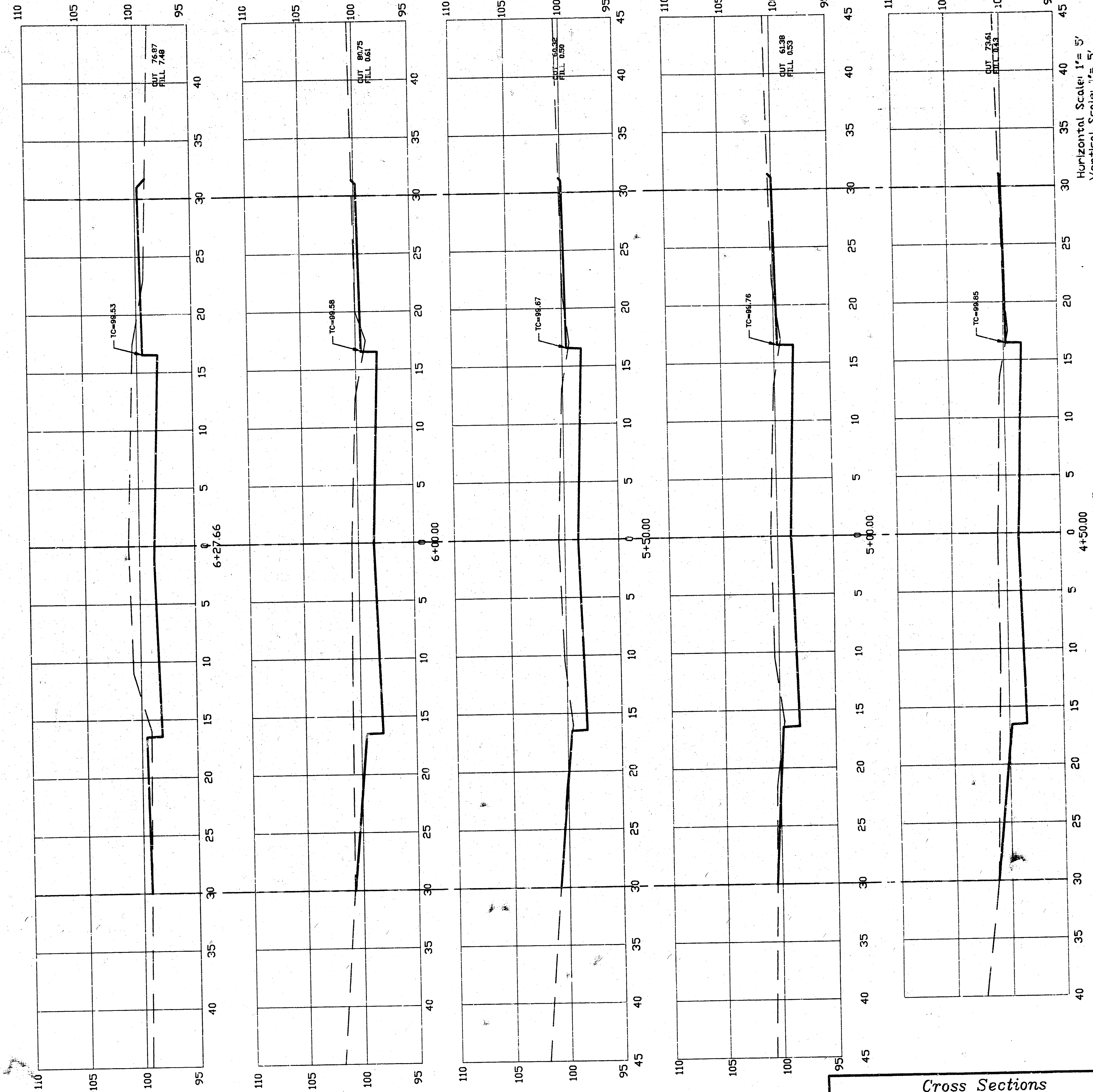
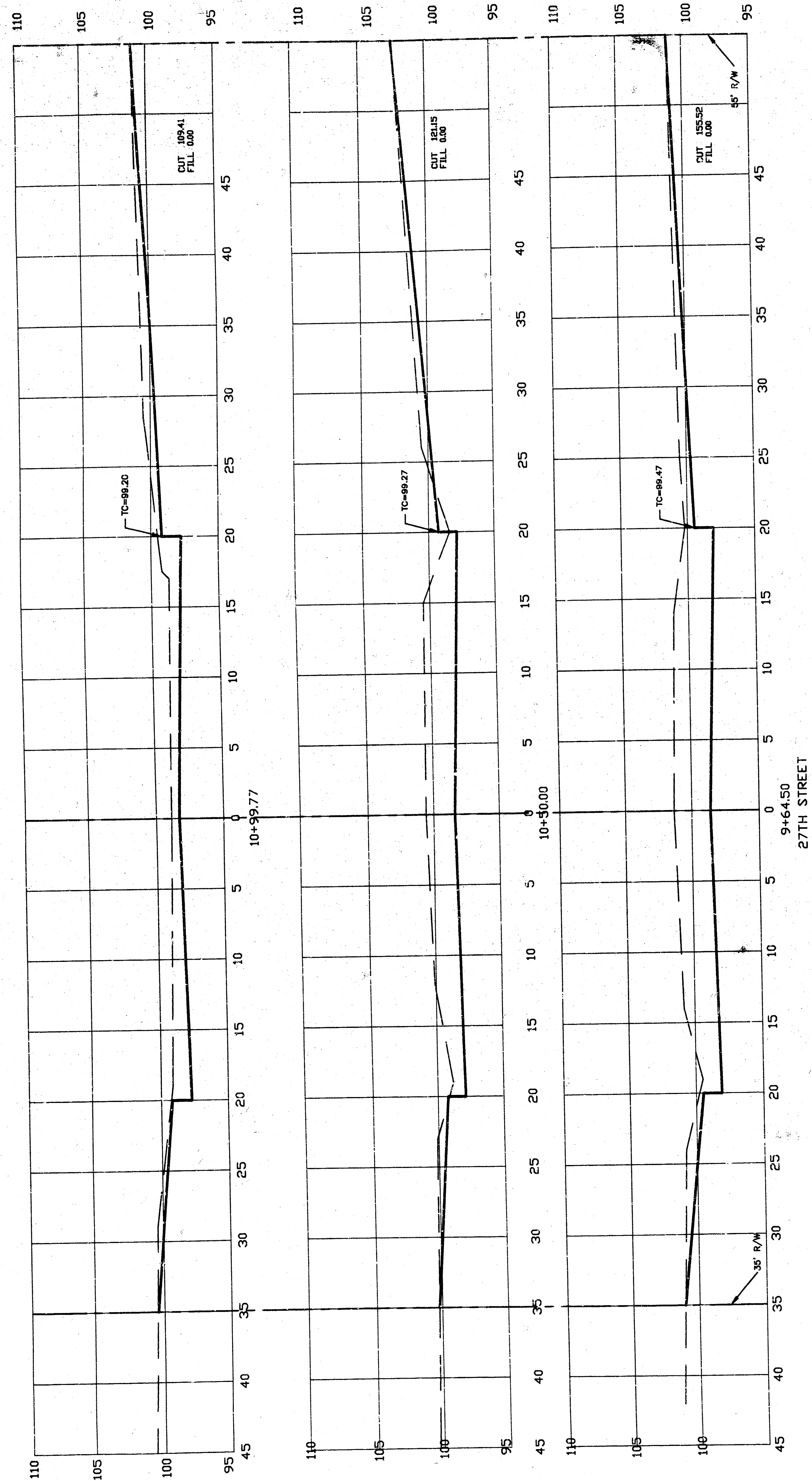
Cross Sections
St. Paul Ave.

SCALE:	APPROVED:	DRAWN BY:
DATE:	CHECKED:	
PROJECT NO:	97-163	SHEET NO. 12 OF 13

MUNICIPAL ENGINEERS
264-LAURA, SUITE 201
WICHITA, KANSAS 67211
316-282-3842

Horizontal Scale: 1"= 5'
Vertical Scale: 1"= 5'

ST. PAUL AVE.



Cross Sections St. Paul Ave & 27th Street	
SCALE:	APPROVED:
DATE:	DRAWN BY:
PROJECT NO:	CHECKED:
97-163	13 OF 13
MUNICIPAL ENGINEERS	
254-LAURA, SUITE 201	
WICHITA, KANSAS 67211	
316-262-3842	

14-03-03-04