

PAVING PLANS FOR WILDERNESS 2ND ADDITION PROJECT NO. 472-76-245-81438-000-000-001

27TH.N.& CYPRESS -- EL. WILDERNESS TO NL. LOT 8, BLK.1
CYPRESS CIRCLE -- SE.LINE CYPRESS TO & INCL. CUL-DE-SAC
WILDERNESS CT. -- EL. WILDERNESS TO & INCL. CUL-DE-SAC

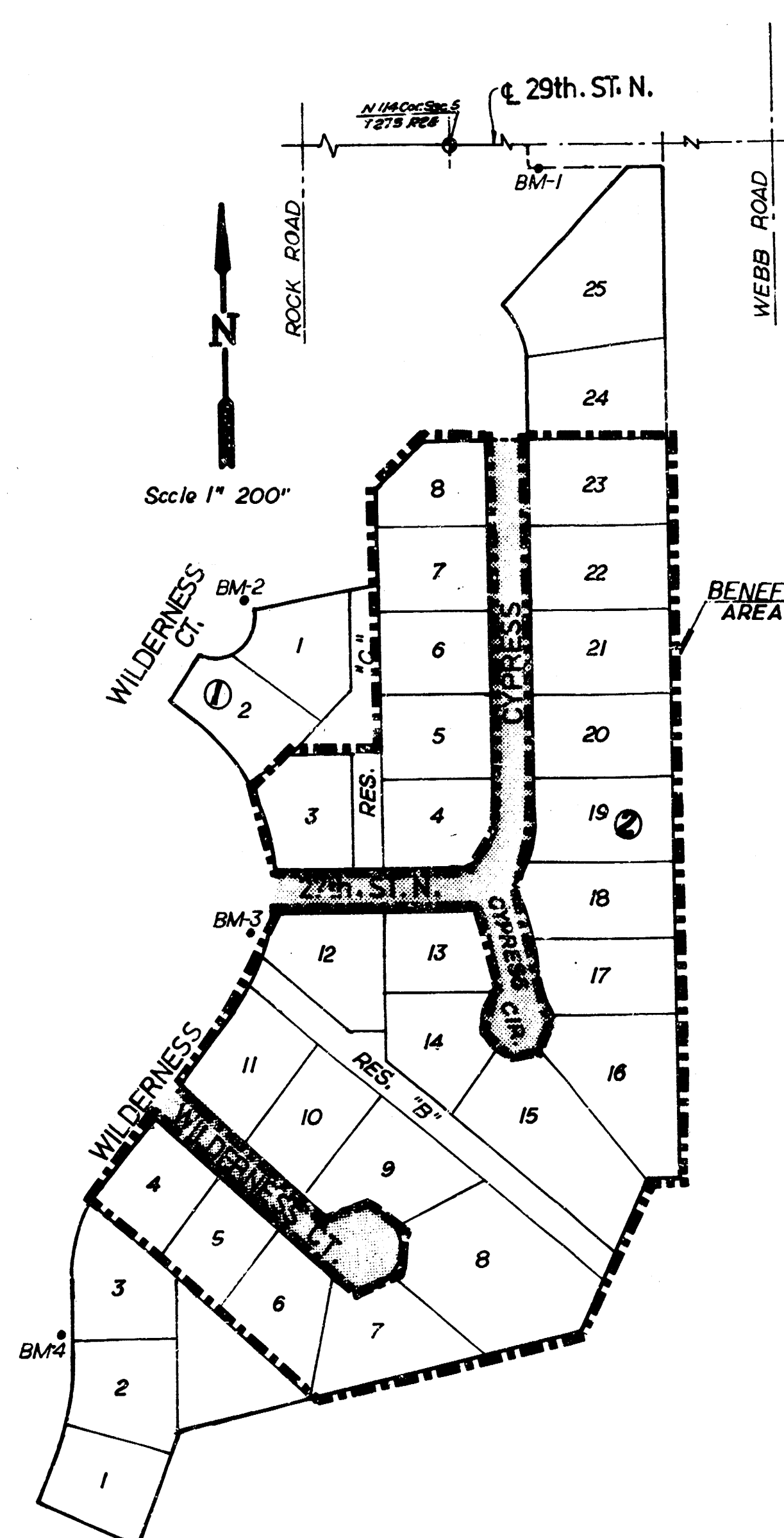
CITY OF WICHITA, KANSAS
MICHAEL E. LINDEBAK CITY ENGINEER
MAY, 1985

GENERAL NOTES

1. STORMWATER S. STRUCTURES "BY OTHERS".
2. 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 THIS CONSTRUCTION OPERATION. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR OR A LICENSED PROFESSIONAL ENGINEER IN ACCORDANCE WITH STATE LAWS.
3. PAVING CONTRACTOR TO COORDINATE WORK WITH STORM SEWER AND SANITARY SEWER CONTRACTORS AND TO CONTACT UTILITY COMPANIES FOR LOCATION OF ANY UNDERGROUND LINES.
4. TRANSITION CURBS FROM FULL HEIGHT COMBINATION CURB AND GUTTER TO ROLL TYPE COMBINATION CURB AND GUTTER IS TO BE PAID AS BID FOR LINEAL FEET COMBINED CURB AND GUTTER (3 5/8" ROLL).

NOTE: NOTIFY THE FOLLOWING COMPANIES PRIOR TO ANY EXCAVATION:

ARKLA GAS COMPANY	942-8350
BELL TELEPHONE COMPANY	268-2256
CABLEVISION	269-3340
GAS SERVICE COMPANY	263-7511
KANSAS GAS & ELECTRIC	261-6375
KANSAS ONE-CALL	1-800-344-7233

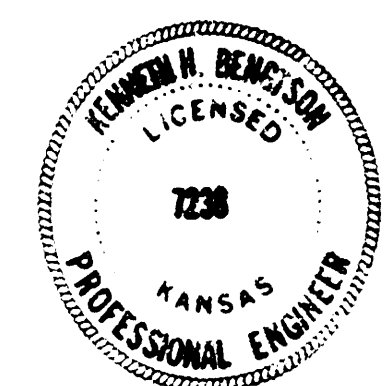


BENCH MARKS

- B.M. #1: "G" ON SOUTH TOP OF CURB - 29TH ST. NORTH AT NORTHWEST CORNER OF LOT 4, BLOCK 1, WILDERNESS ADDITION. ELEV. = 219.49
- B.M. #2: "G" CUT ON TOP OF CURB AT SOUTHWEST CORNER, LOT 7, BLOCK 2, WILDERNESS ADDITION. ELEV. = 221.55
- B.M. #3: "G" CUT ON TOP OF CURB AT NORTHWEST CORNER, LOT 12, BLOCK 2, WILDERNESS 2ND ADDITION. ELEV. = 218.35
- B.M. #4: "G" CUT ON TOP OF CURB AT NORTHWEST CORNER, LOT 2, BLOCK 2, WILDERNESS 2ND ADDITION. ELEV. = 214.77
- B.M. #5: "G" CUT ON TOP OF CURB AT SOUTHEAST CORNER, LOT 26, BLOCK 3, WILDERNESS ADDITION. ELEV. = 212.46

SHEET INDEX

SHT. NO.	DESCRIPTION
1.	TITLE SHEET
2.	TYPICAL 29 FT. PAVEMENT DETAILS
3-6.	PAVING PLANS
7-12.	CROSS-SECTIONS
12A.	FINAL PLAT



PAVING PLANS FOR -
WILDERNESS 2ND ADDN.
TITLE SHEET

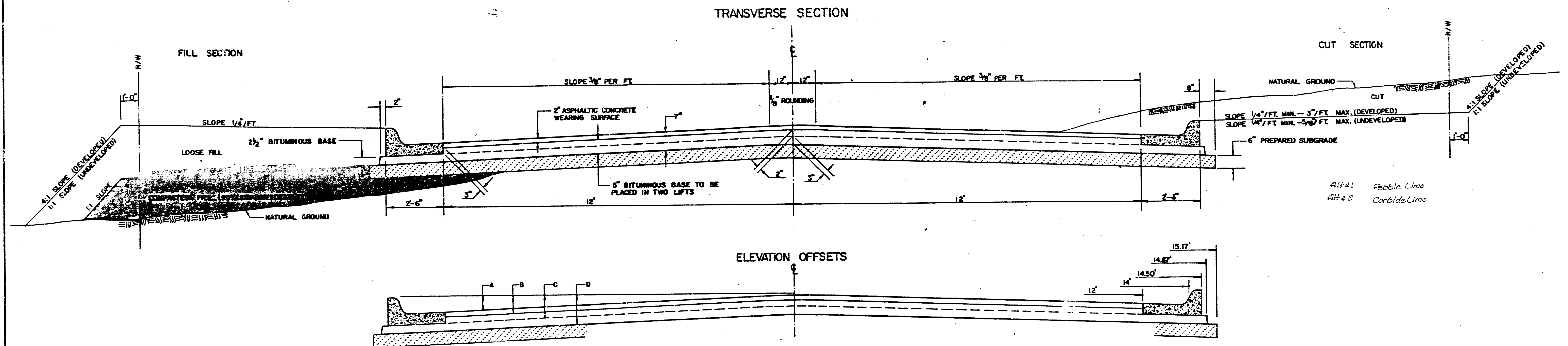
MID-KANSAS ENGINEERING CONSULTANTS PA
3500 NORTH ROCK ROAD
BUILDING #800
WICHITA, KANSAS 67226

682-6561

Design	SGS
Drawn by	SGS
Checked by	
Date	3/85
Job no.	
Sheet	1
of	12

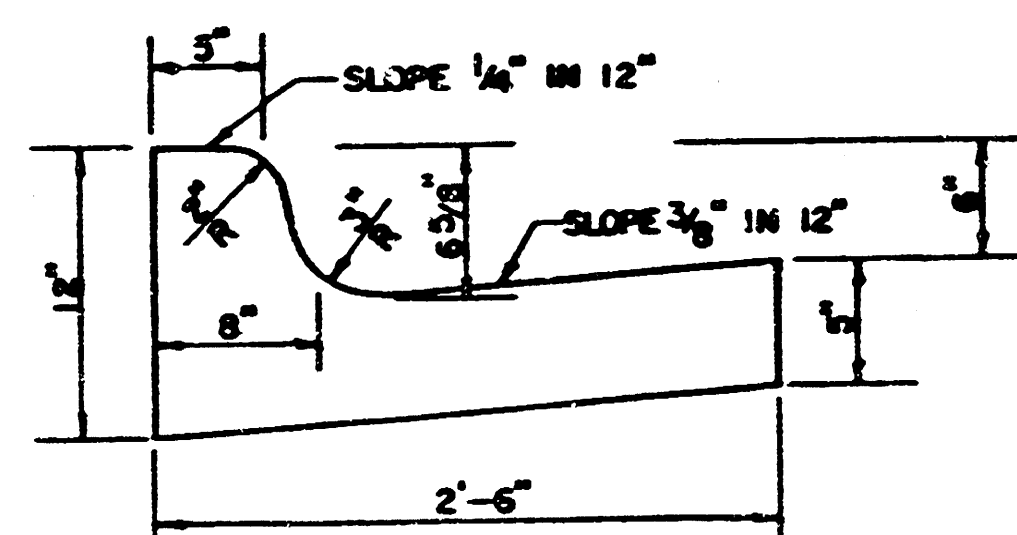
FILMED FROM THE BEST
AVAILABLE COPY

TYPICAL 29' PAVEMENT DETAILS

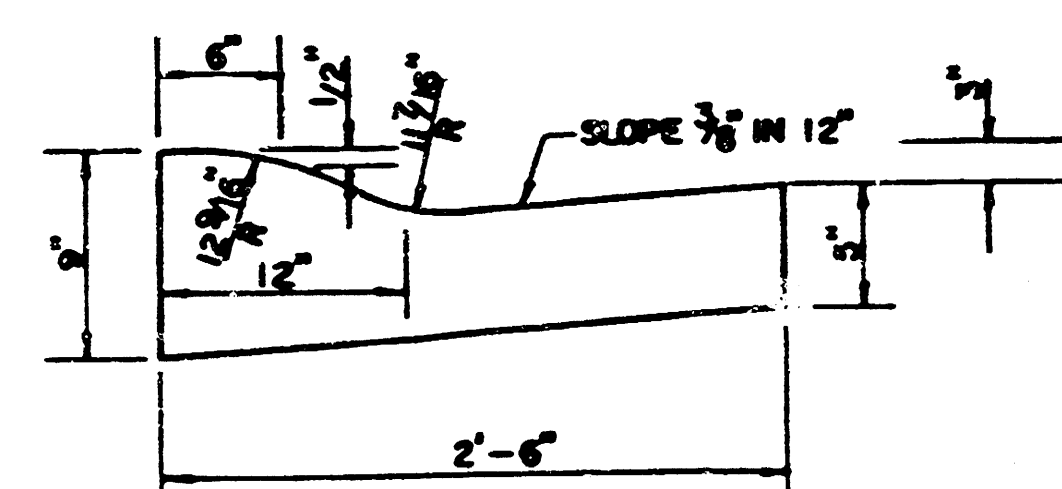


	DISTANCE FROM CENTERLINE (L. & RT.)											
	0'	2'	4'	6'	7'	8'	10'	12'	14'	14.5'	14.67'	15.17'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	—	—	—	—
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	—	—	—	—
C: TOP OF CURBS TO TOP OF 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



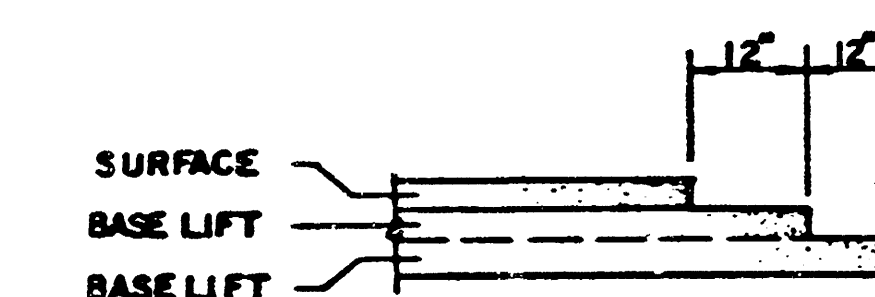
ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

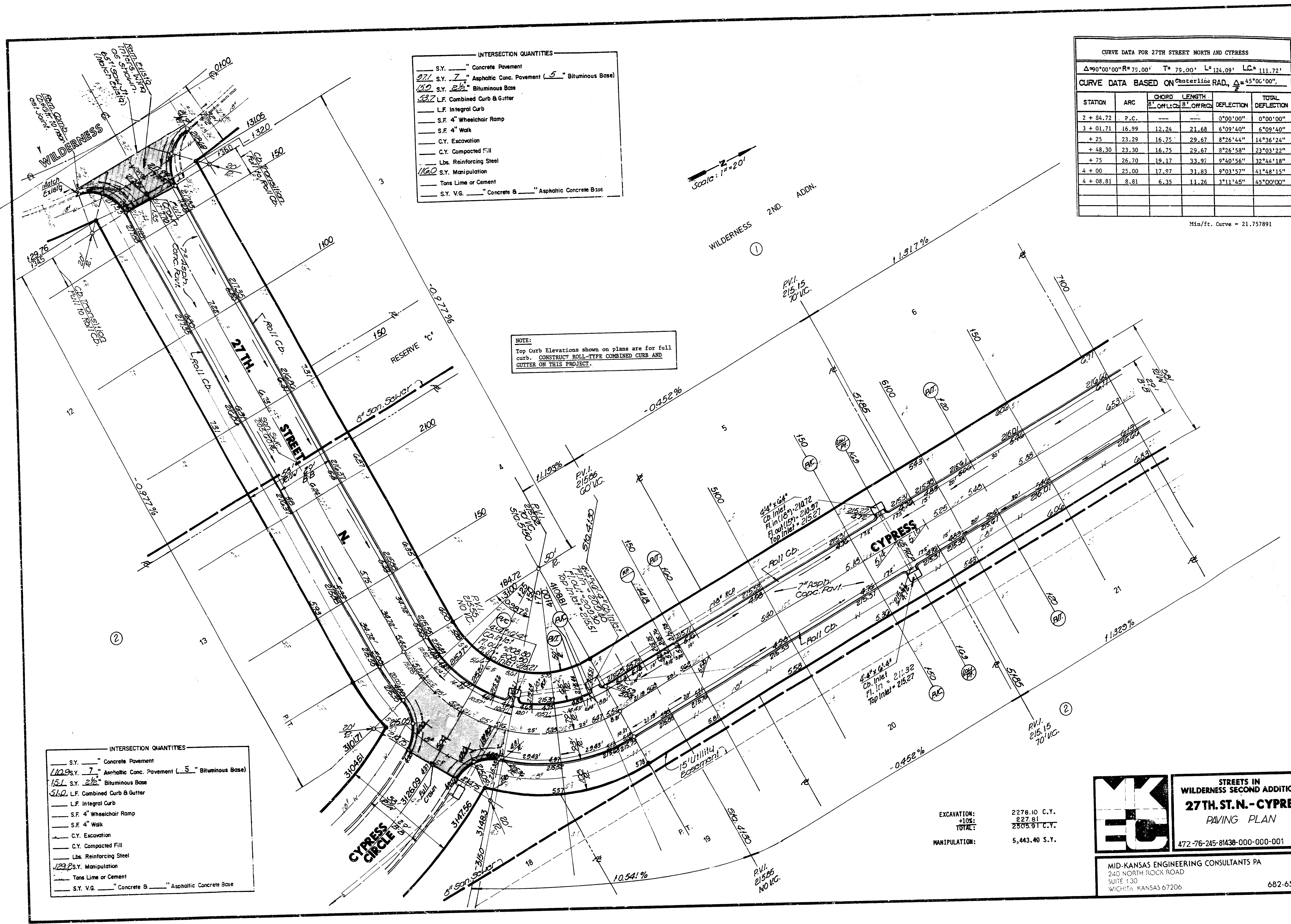
- 1) THE ASPHALTIC CONCRETE PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 7" ASPHALTIC CONCRETE (5" BITUMINOUS BASE).
- 2) THE BITUMINOUS BASE UNDER AND BEHIND THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQUARE YARDS OF 2 1/2" BITUMINOUS BASE.
- 3) A TACK COAT OF EMULSIFIED ASPHALT (SC-1H OR CSS-1H) 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 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 THE EXISTING FLEXIBLE BASE PAVEMENT AT LOCATIONS WHERE PAVEMENTS JOIN. ALL COSTS ASSOCIATED WITH THE CONSTRUCTION OF THE TRANSVERSE JOINT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS 8" ASPHALTIC CONCRETE (6" BITUMINOUS BASE).

7 INCH RESIDENTIAL ASPHALTIC CONCRETE
PAVEMENT WITH 5 INCH BITUMINOUS BASE
CITY OF WICHITA, KANSAS
PROJECT NUMBER 472-76-245-81438-000-000-001



INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
27.1	S.Y. Asphaltic Conc. Pavement (5" Bituminous Base)
15.2	S.Y. 2 1/2" Bituminous Base
53.7	L.F. Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
	C.Y. Excavation
	C.Y. Compacted Fill
	Lbs. Reinforcing Steel
116.0	S.Y. Manipulation
	Tons Lime or Cement
S.Y. V.G.	Concrete & Asphaltic Concrete Base

CURVE DATA FOR 27TH STREET NORTH AND CYPRESS

$\Delta=90^{\circ}00'00''$ $R=79.00'$ $T=79.00'$ $L=124.09'$ $LC=111.72'$

CURVE DATA BASED ON CENTERLINE RAD, $\Delta=45^{\circ}00'00''$

STATION	ARC	CHORD	CHORD	DEFLECTION	TOTAL
		CHORD	CHORD		DEFLECTION
2 + 84.72	P.C.			0°00'00"	0°00'00"
3 + 01.71		16.99	12.24	21.68	6°09'40"
+ 25		23.29	16.75	29.67	8°26'44"
+ 48.30		23.30	16.75	29.67	8°26'58"
+ 75		26.70	19.17	33.97	9°40'56"
4 + 00		25.00	17.97	31.83	9°03'57"
4 + 08.81		8.81	6.35	11.26	3°11'45"
					45°00'00"

Min./ft. Curve = 21.757891

NOTE:
Top Curb Elevations shown on plans are for full curb. CONSTRUCT ROLL-TYPE COMBINED CURB AND GUTTER ON THIS PROJECT.

INTERSECTION QUANTITIES

S.Y.	Concrete Pavement
112.9	S.Y. Asphaltic Conc. Pavement (5" Bituminous Base)
15.1	S.Y. 2 1/2" Bituminous Base
51.0	L.F. Combined Curb & Gutter
	L.F. Integral Curb
	S.F. 4" Wheelchair Ramp
	S.F. 4" Walk
	C.Y. Excavation
	C.Y. Compacted Fill
	Lbs. Reinforcing Steel
123.8	S.Y. Manipulation
	Tons Lime or Cement
S.Y. V.G.	Concrete & Asphaltic Concrete Base

EXCAVATION: 2278.10 C.Y.
+10%: 227.81
TOTAL: 2505.91 C.Y.
MANIPULATION: 5,443.40 S.Y.



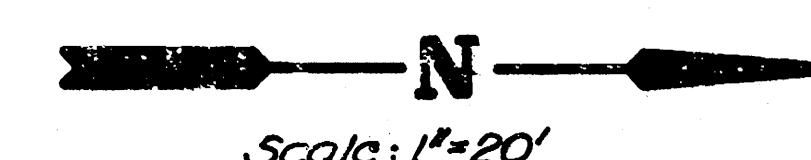
STREETS IN
WILDERNESS SECOND ADDITION
27TH ST. N. - CYPRESS
PAVING PLAN
472-76-245-81438-000-000-001

MID-KANSAS ENGINEERING CONSULTANTS PA
240 NORTH ROCK ROAD
SUITE 130
WICHITA, KANSAS 67206

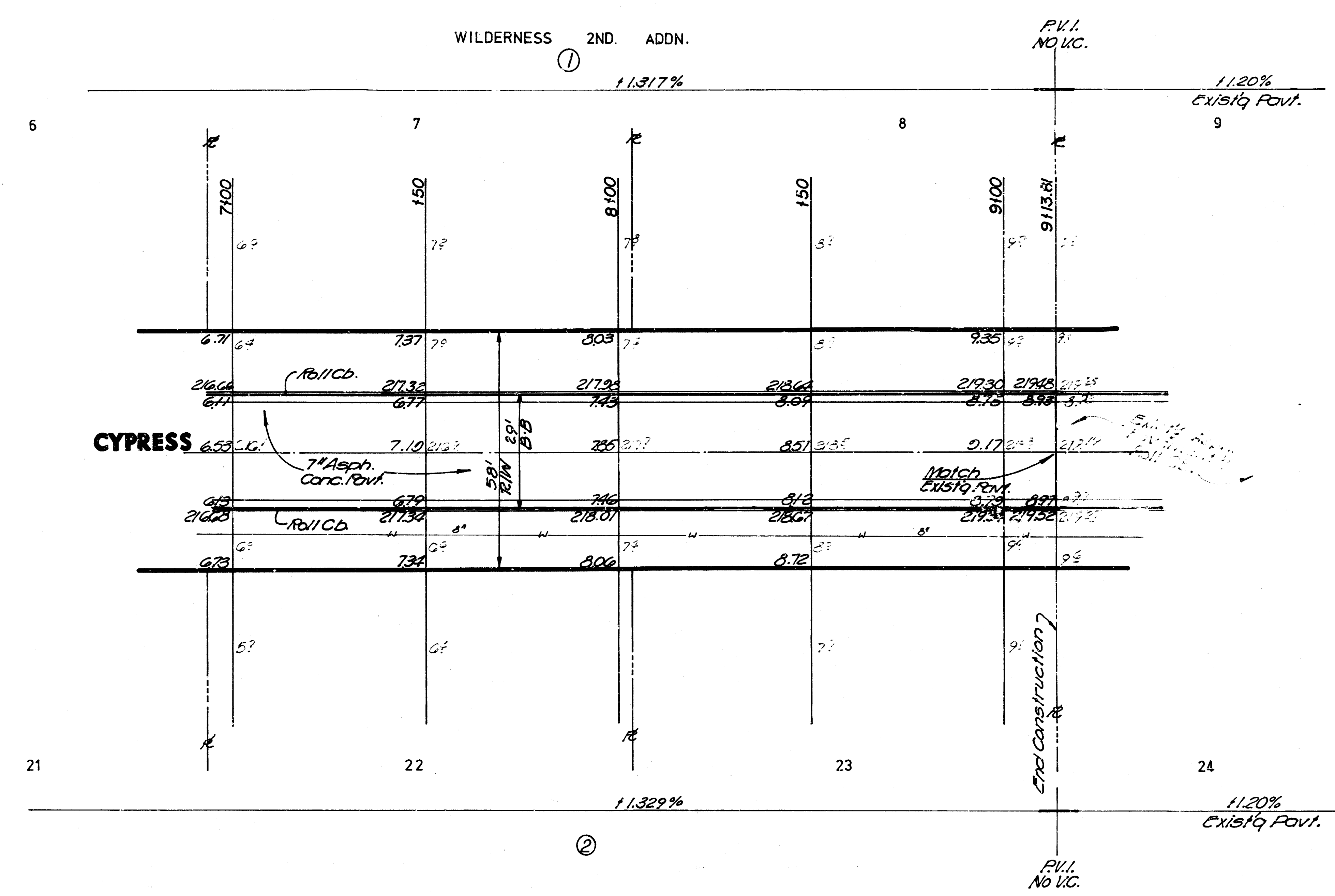
682-6561

Design: 863
Drawn by: 56.S.
Checked by:
Date: 3-85
Scale:
Sheet: 3
of 12

FILMED FROM THE BEST
AVAILABLE COPY....



NOTE:
Top Curb Elevations shown on plans are for full
curb. CONSTRUCT ROLL-TYPE COMBINED CURB AND
GUTTER ON THIS PROJECT.



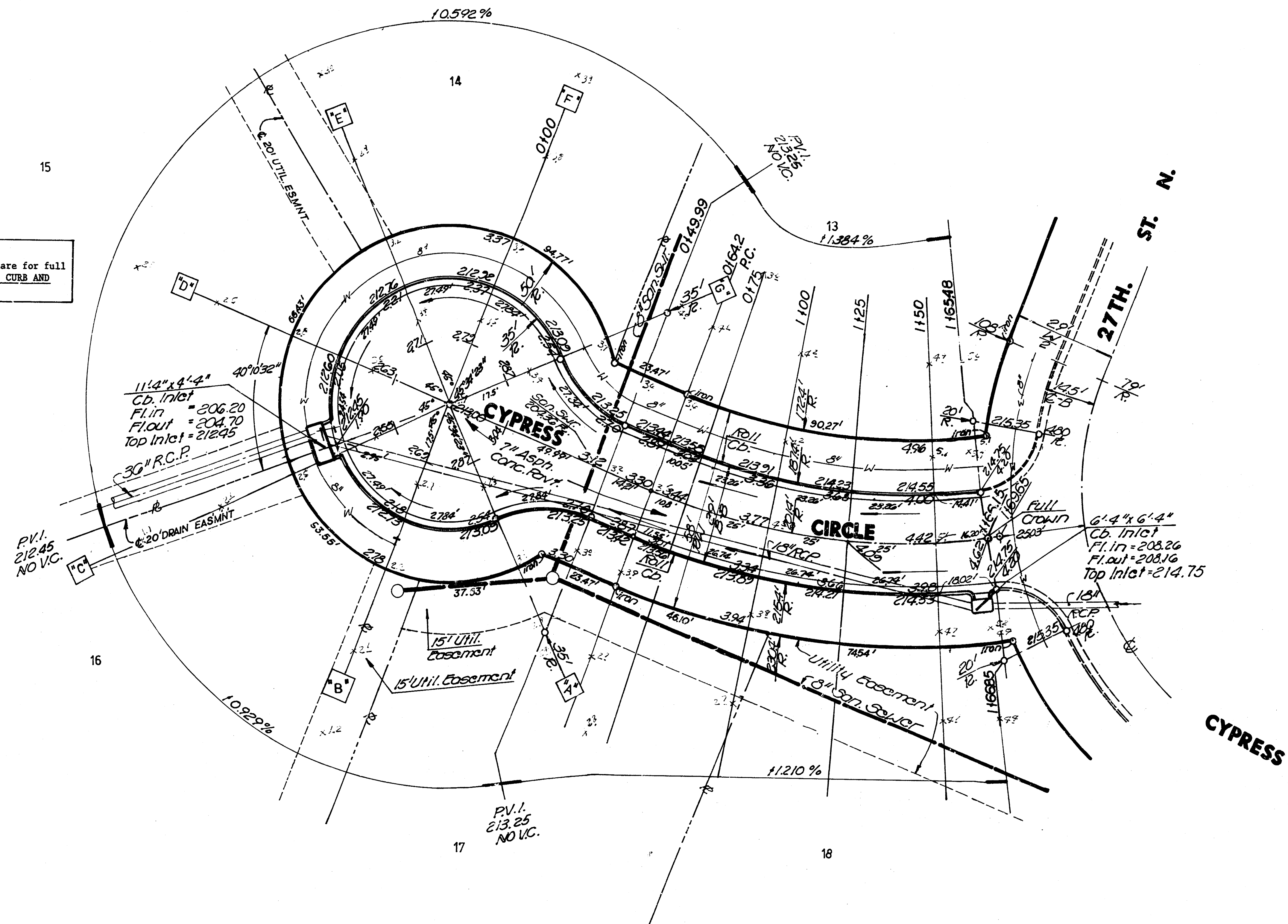
	STREETS IN WILDERNESS SECOND ADDITION	Design SGS
	27TH.ST.N. - CYPRESS	Drawn by SGS
	PAVING PLAN	Checked by
	468-76-245-81438-000-001	Date 3-85
MID-KANSAS ENGINEERING CONSULTANTS PA 240 NORTH ROCK ROAD SUITE 130 WICHITA, KANSAS 67206		Sheet 4 of 12

FILMED FROM THE BEST
AVAILABLE COPY

WILDERNESS 2ND. ADDN.

(2)

NOTE:
Top Curb Elevations shown on plans are for full
curb. CONSTRUCT ROLL-TYPE COMBINED CURB AND
GUTTER ON THIS PROJECT.



$\Delta = 30^{\circ}00'00''$ $R = 201.40'$ $T = 116.28'$ $L = 105.45'$ $LC = 104.25'$ Centerline CURVE DATA BASED ON $\Delta = 15^{\circ}00'00''$ $R = 100.70'$					
STATION	ARC	CHORD	LENGTH	DEFLECTION	TOTAL
		8' ON L.C.	8' ON R.C.		DEFLECTION
0 + 64.20	P.C.	---	---	0°00'00"	0°00'00"
+ 75	10.80'	9.62'	11.98'	1°32'10"	1°32'10"
1 + 00	25.00'	22.25'	27.71'	3°33'22"	5°05'32"
+ 25	"	"	"	"	8°38'54"
+ 50	25.00'	22.25'	27.71'	3°33'23"	12°12'17"
+ 65.48	15.48'	13.79'	17.17'	2°12'02"	14°24'19"
+ 66.85	1.37'	1.22'	1.52'	0°11'42"	14°36'06"
1 + 69.65	2.80'	2.49'	3.11'	0°23'54"	15°00'00"

Mina/ft. Curve = 8.5346246

STREETS IN
WILDERNESS SECOND ADDITION
CYPRESS CIRCLE
PAVING PLAN

472-76-245-81438-000-000-001

Design: SGS
Drawn by: SGS
Checked by:
Date: 3/85
Job No:

MID-KANSAS ENGINEERING CONSULTANTS PA
240 NORTH ROCK ROAD
SUITE 130
WICHITA, KANSAS 67206

682-6561

Sheet: 5
of 12 5/13

FILMED FROM THE BEST
AVAILABLE COPY

②
WILDERNESS 2nd. ADDN.

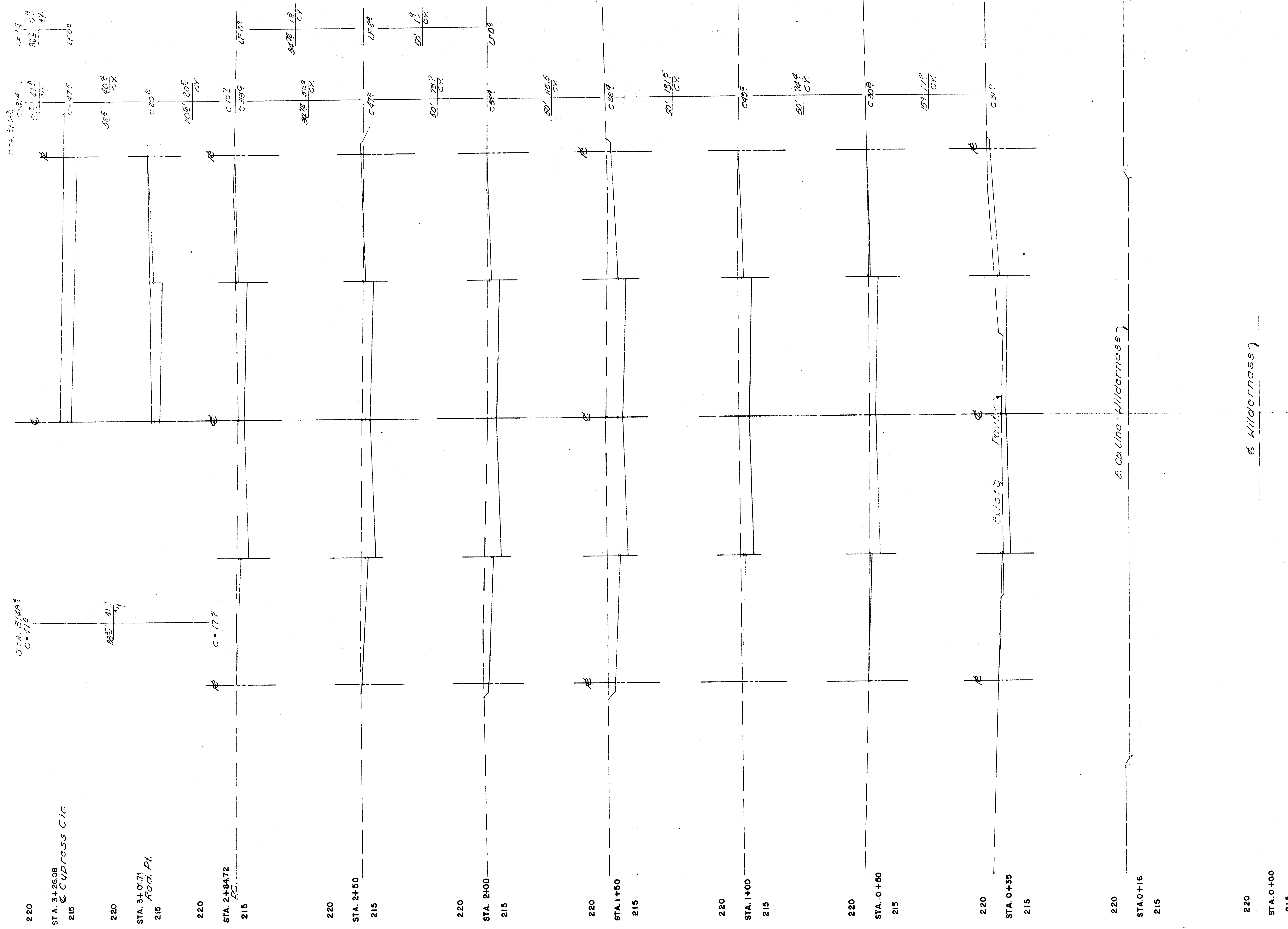


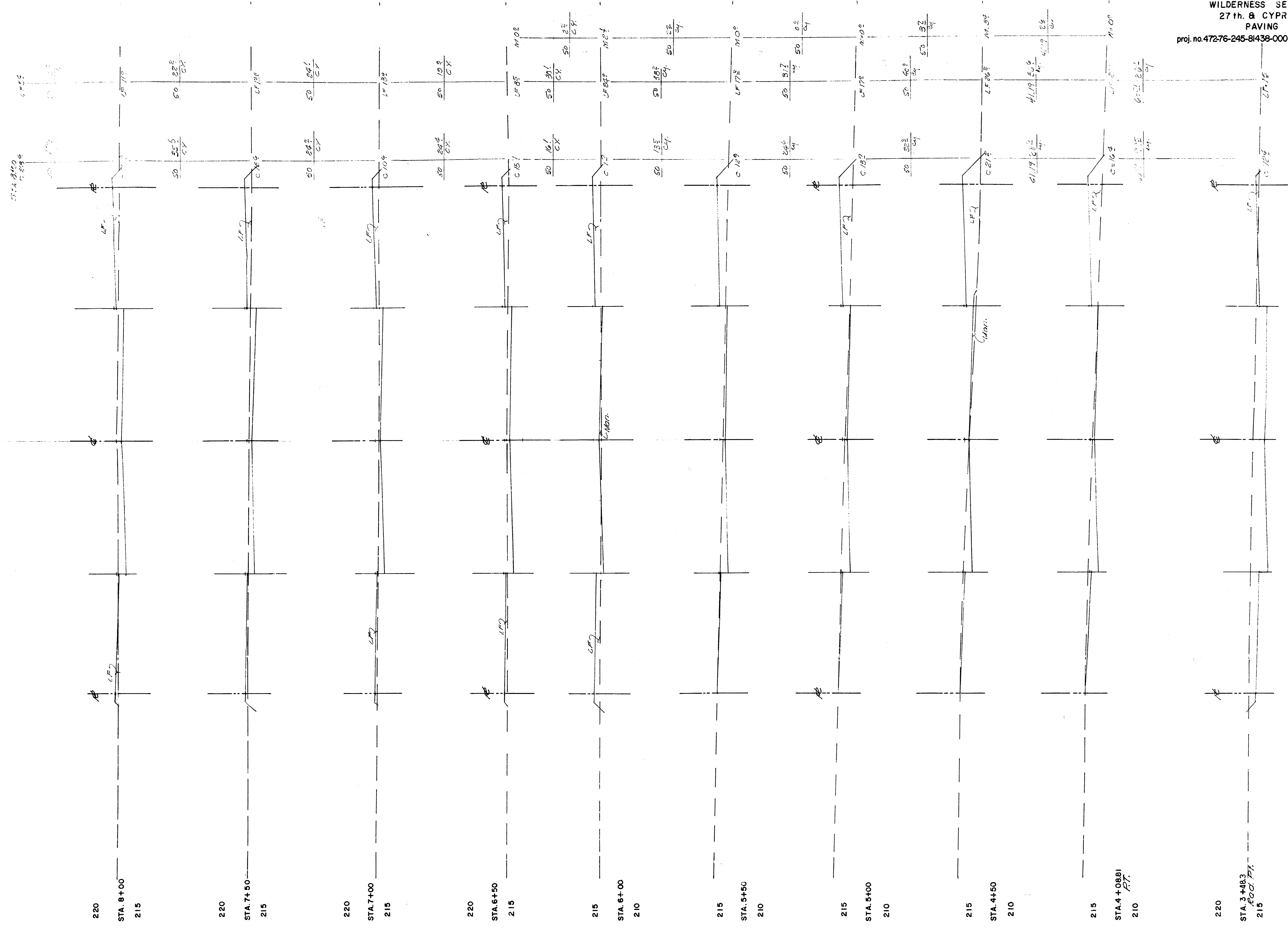
**FILMED FROM THE BEST
AVAILABLE COPY.....**

SHEET TOTALS
Exc. = 614¹/₂ Lbs. GOOSE FILL = 4¹/₂ Lbs.

2278.10Y	EXC	GRAND TOTAL	5.00
366.6CY	L.FILL		
102CY	MAN.		

**FILMED FROM THE BEST
AVAILABLE COPY**

 $\frac{7}{13}$ $\frac{7}{12}$



WILDERNESS SECOND
27th. & CYPRESS
PAVING
proj. no. 472-76-245-81438-000-000-001

Station
210.00
215.00
220.00

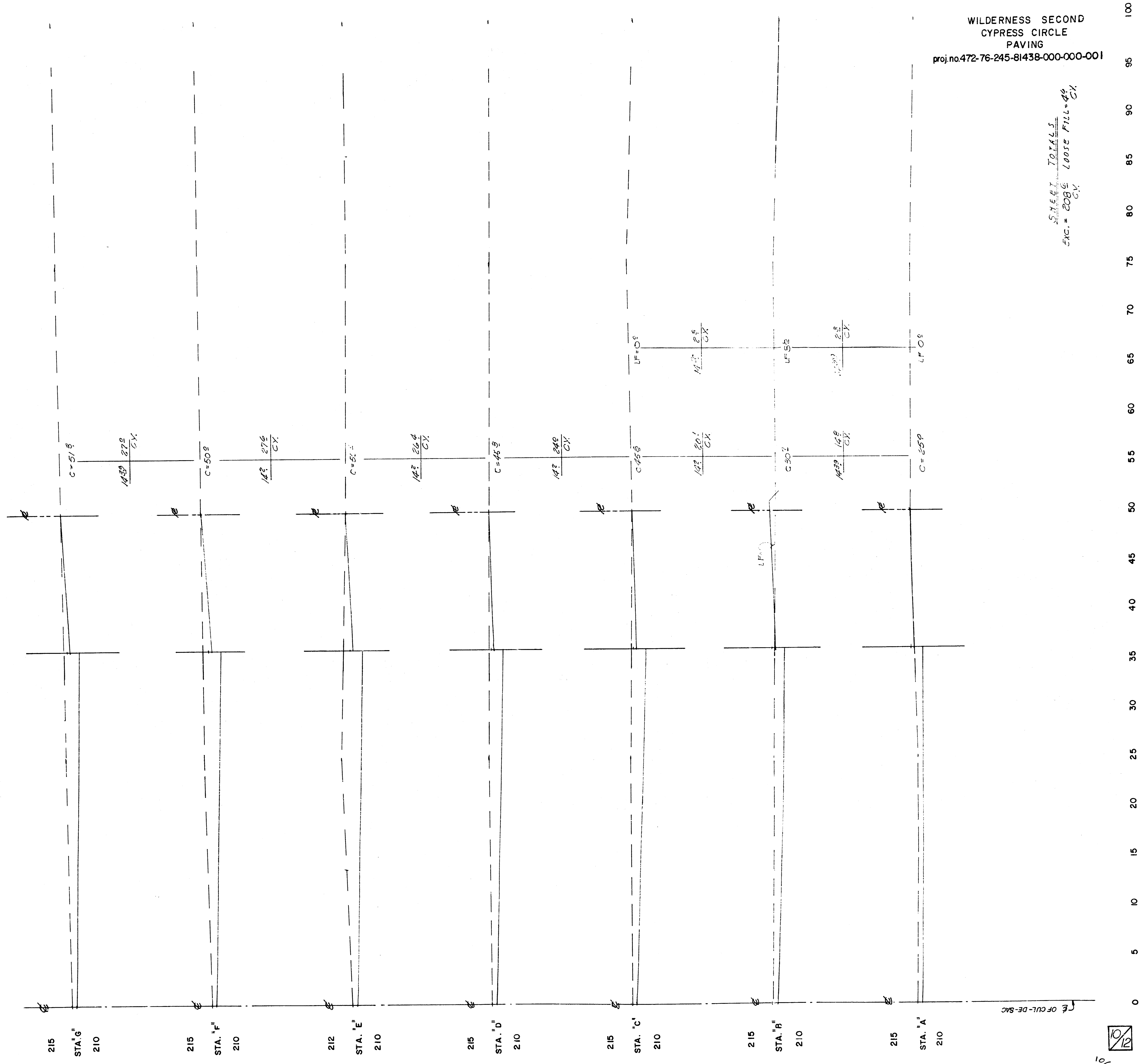
FILMED FROM THE BEST
AVAILABLE COPY.....

8/12

WILDERNESS SECOND
CYPRESS CIRCLE
PAVING
proj.no.472-76-245-81438-000-000-001

SHEET TOTALS
Exc. = 2086 Loose Fill = 44
CY

IRREGULAR AREA IN TIE-UP - SAC.
1657.18 x 123 = 60.10



FILMED FROM THE BEST
AVAILABLE COPY

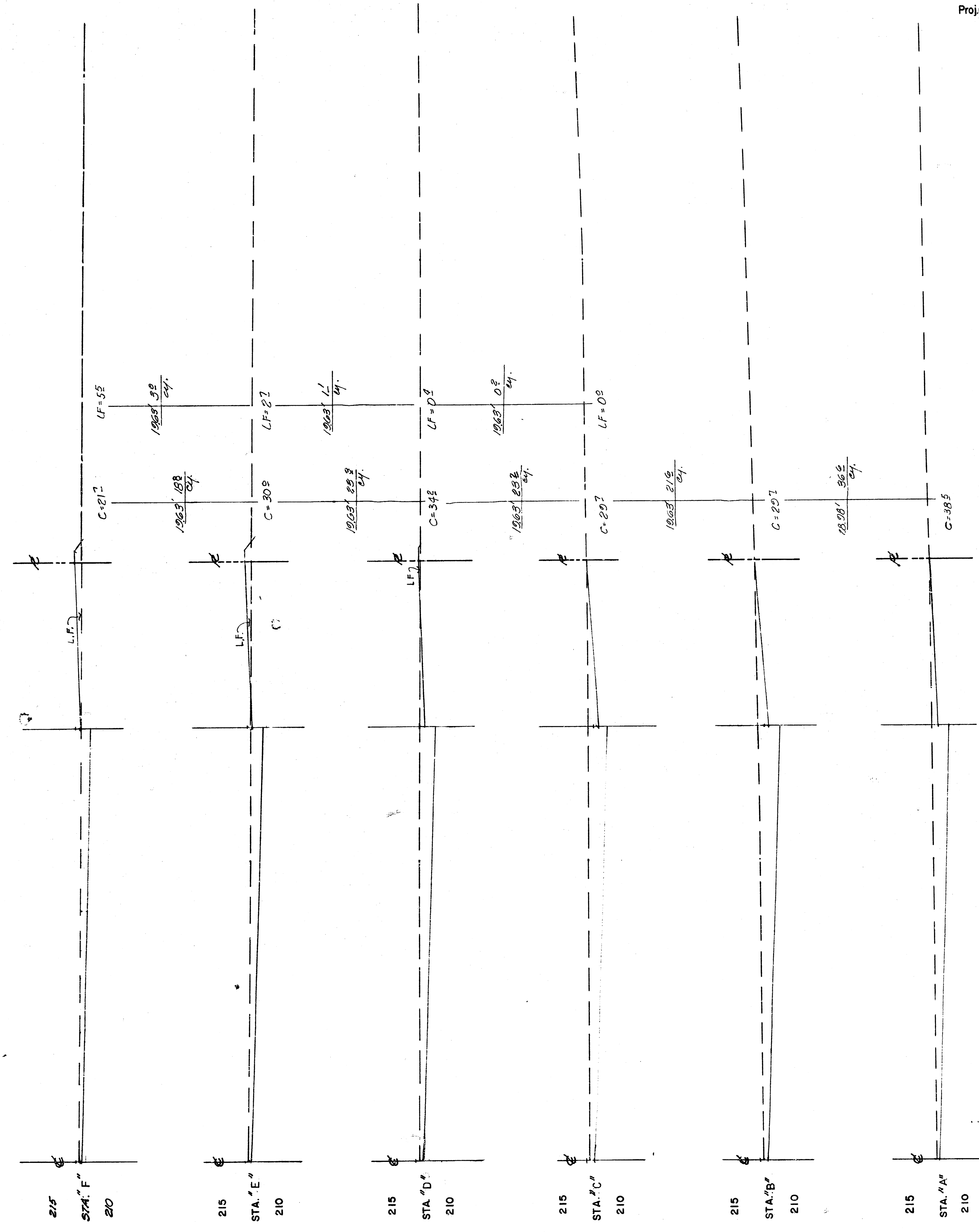
10/13

Year	1995	2000	2005	2010	2015	2020	2025	2030	2035	2040	2045	2050
Population (millions)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3
GDP (trillion USD)	0.5	0.8	1.2	1.8	2.5	3.5	4.8	6.5	8.5	10.5	12.5	14.5
Life expectancy (years)	72	75	78	80	82	84	86	88	90	92	94	96
Urban population (%)	35	45	55	65	75	85	90	92	94	96	98	100
Renewable energy (%)	10	15	20	25	30	35	40	45	50	55	60	65
Forest cover (%)	25	28	30	32	34	36	38	40	42	44	46	48
CO2 emissions (Gt)	0.5	0.8	1.2	1.8	2.5	3.5	4.8	6.5	8.5	10.5	12.5	14.5
Water stress (%)	10	15	20	25	30	35	40	45	50	55	60	65
Healthcare spending (GDP %)	5	6	7	8	9	10	11	12	13	14	15	16
Education spending (GDP %)	3	4	5	6	7	8	9	10	11	12	13	14
Gender inequality index	0.75	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98
Corruption index	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
Trust in government (%)	40	45	50	55	60	65	70	75	80	85	90	95
Environmental index	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
Quality of life index	1.0	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2
Peace index	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0	4.2
Human development index	0.65	0.70	0.75	0.80	0.85	0.90	0.92	0.94	0.96	0.98	1.00	1.00

11/13

WILDERNESS SECOND
WILDERNESS COURT
PAVING
Projno.472-76-245-81438-000-000-001

SHEET TOTALS
EXCAV. 1233 CY
LOSSES FILL 43 CY



OF CUL-DE-SAC

12/13

FILMED FROM THE BEST
AVAILABLE COPY.....

I, Michael D. Harding, a Civil Engineer in Kansas, do hereby certify that I have been in responsible charge of surveying and platting of "WILDERNESS SECOND ADDITION", an addition to Wichita, Sedgwick County, Kansas, into Lots, Blocks, Streets and Reserves, the same being accurately set forth in the accompanying plat and described herein:

A tract of land lying within the northeast quarter of Section 5, Township 27 South, Range 2 east of the 6th Principal Meridian, more particularly described as follows:

Beginning at the north corner of "Wilderness", an addition to Wichita, Sedgwick County, Kansas; thence along the north line of said addition, extended easterly bearing N 89° 06' 39" E, 49.90 feet to a point on the west line of Government Lot 1; thence south along said west line bearing S 00° 54' 07" E, 1330.25 feet; thence S 89° 06' 39" E, 50.00 feet; thence S 24° 37' 53" W, 216.63 feet; thence S 76° 37' 53" W, 578.64 feet; thence S 21° 37' 53" W, 161.38 feet; thence N 68° 22' 07" W, 150.00 feet to the southeast corner of said "Wilderness", addition; thence northerly along the east line of said addition bearing N 21° 37' 53" E, 70.17 feet to the beginning of a curve to the left, having a radius of 308.50 feet, a central angle of 22° 30' 00", and a long chord bearing N 10° 22' 53" E, 120.37 feet; thence along said curve an arc length of 121.15 feet; thence N 00° 52' 07" W, 110.91 feet to the beginning of a curve to the right, having a radius of 174.06 feet, a central angle of 40° 00' 00", and a long chord bearing N 19° 07' 53" E, 119.06 feet; thence along said curve an arc length of 121.52 feet; thence N 39° 07' 53" E, 304.68 feet to the beginning of a curve to the left, having a radius of 262.88 feet, a central angle of 94° 33' 15", and a long chord bearing N 08° 08' 44" W, 386.25 feet; thence along said curve an arc length of 433.83 feet; thence N 55° 25' 22" W, 43.85 feet; thence N 5° 34' 38" E, 80.00 feet to the beginning of a curve to the left, having a radius of 50.00 feet, a central angle of 126° 03' 03", and a long chord bearing N 52° 20' 42" E, 89.12 feet; thence along said curve an arc length of 110.00 feet; thence N 79° 19' 10" E, 183.57 feet; thence N 00° 53' 21" W, 126.72 feet; thence N 44° 06' 39" E, 87.95 feet; thence N 89° 06' 39" E, 145.82 feet; thence N 00° 53' 21" W, 99.00 feet to the beginning of a curve to the left, having a radius of 109.00 feet, a central angle of 45° 00' 00", and a long chord bearing N 23° 23' 21" W, 83.43 feet; thence along said curve an arc length of 85.61 feet; thence N 44° 06' 39" E, 257.28 feet to the point of beginning containing 18.63 acres more or less.

I hereby certify that the details of this plat are correct to the best of my knowledge and belief this 5th day of November, 1984.

Michael D. Harding
Michael D. Harding
Mid-Kansas Engineering Consultants, P.A.
240 N. Rock Road, Suite 130
Wichita, KS 67206

Know all men by these presents that we the undersigned property owners of the land as above set forth in the Civil Engineers Certificate, have caused the same to be surveyed and platted into lots, blocks, streets and reserves, the same to be known as "WILDERNESS SECOND ADDITION", an addition to Wichita, Sedgwick County, Kansas. The streets are hereby dedicated to and for the use of the public. Easements for the construction and maintenance of public utilities and drainage are hereby granted as indicated. The reserves are being platted for construction and maintenance of public utilities, landscaping, irrigation, cart paths, recreation buffer zones, open space, and drainage. Reserve "D" is also reserved for a screen wall. Reserves shall be owned and maintained by the Homeowners Association. All abutters rights of access to or from 29th Street North over and across the north line of Lot 25 Block 2, "WILDERNESS SECOND ADDITION", is hereby granted to the City of Wichita. The building setbacks shall be in accordance with the Tallgrass Community Unit Plan (D.P. - 96) on file in the City of Wichita, Sedgwick County Metropolitan Area Planning Department Office.

Tallgrass Company, a partnership

By: Jack D. Ritchie, partner

STATE OF KANSAS
COUNTY OF SEDGWICK

Be it remembered that on this 5th day of November, 1984, before me, a Notary Public in and for said State and County, came Jack D. Ritchie, partner on behalf of Tallgrass Company, a partnership to me personally known to be the same person who executed the foregoing instrument of writing and duly acknowledged the execution of the same. In testimony whereof I have hereunto set my hand and affixed my notarial seal the day and year above written.

Susan G. Davidson, Notary Public

My Appointment Expires: 1-9-86

Susan G. Davidson
NOTARY PUBLIC
STATE OF KANSAS
My Comm. Exp. 1-9-86

FINAL PLAT OF

WILDERNESS SECOND ADDITION

AN ADDITION TO WICHITA, SEDGWICK COUNTY, KANSAS

This plat of "Wilderness second addition" has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas.

Dated this 18th day of October, 1984.

Wichita-Sedgwick County Metropolitan Area Planning Commission

James C. Wilson, Chairman

Robert A. Lakin, Secretary

This plat approved and all dedications shown hereon, if any, accepted by the City Commission of the City of Wichita, Kansas, this 17th day of November, 1984.

Robert G. Knight, Mayor

Donald C. Glick, City Clerk

This plat approved and all dedications shown hereon, if any, accepted by the Board of County Commissioners of Sedgwick County, Kansas, this 13th day of December, 1984.

Jack Spratt, Chairman

Donald E. Grays, Commissioner

Tom Scott, Commissioner

Attest: Michael T. Sawyer, County Clerk

Entered on transfer record this 12th day of December, 1984.

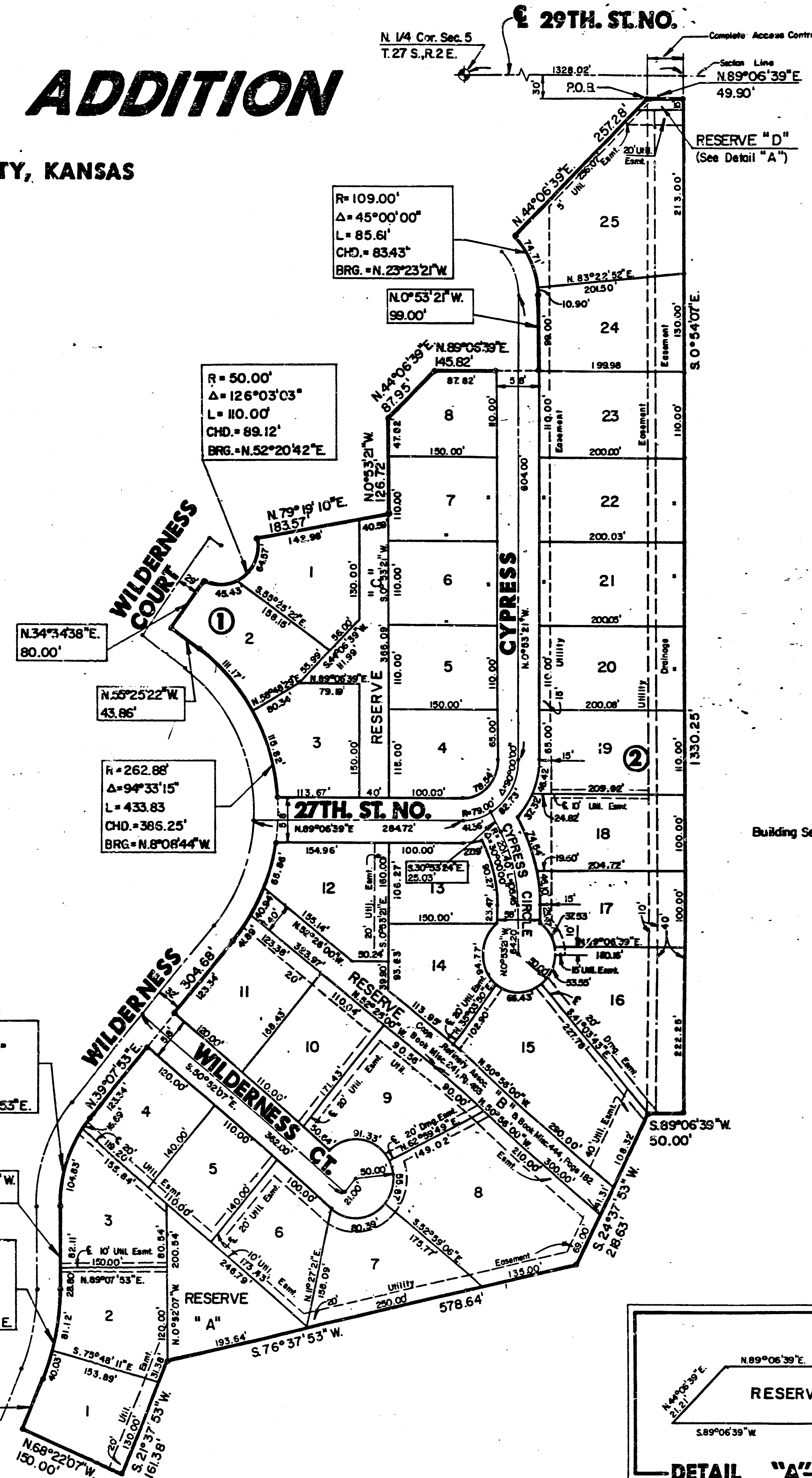
Michael T. Sawyer, County Clerk

STATE OF KANSAS
COUNTY OF SEDGWICK

This is to certify that this instrument was filed for record in the Register of Deeds Office at 8:00AM on the 13th day of DECEMBER, 1984.

Bette F. McCart, Register of Deeds

Pat Kettler, Deputy

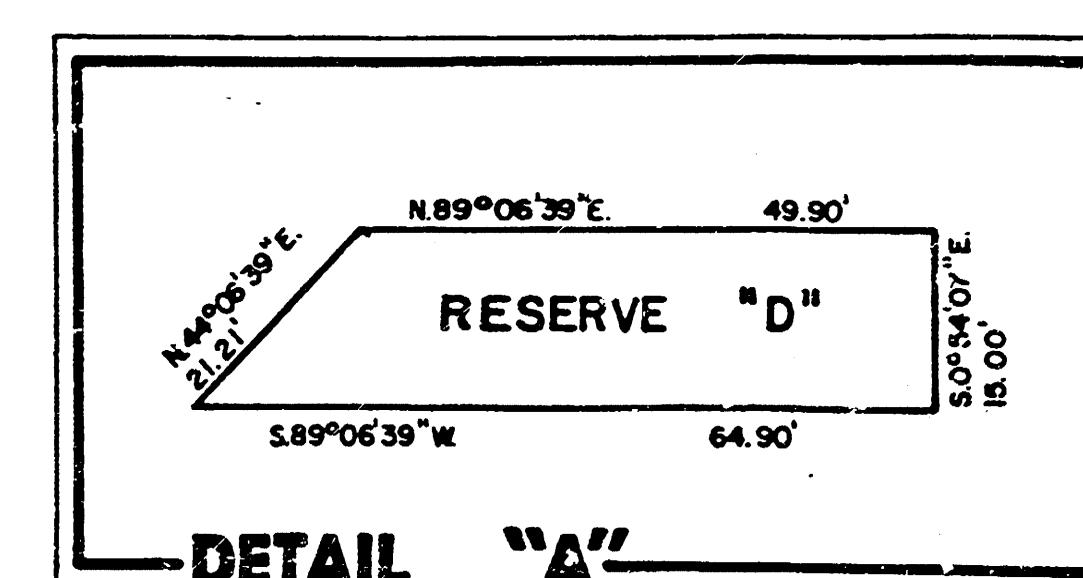


Scale: 1" = 100'

LEGEND

• • Iron

Building Setbacks As Per (D.P. - 96)



DETAIL "A"

FILMED FROM THE BEST AVAILABLE COPY.....