CONSTRUCTION PLANS FOR STREET IMPROVEMENTS
ABERDEEN FIRST ADDITION - BRITTON ST.
TO
THE CITY OF WICHITA, KANSAS

MICHAEL E. LINDEBAK, P.E. -- CITY ENGINEER
PROJECT NO. 472-82634
INDEX CODE 764076

BRITTON from the W. Side of 119th St. W. to the E. Line of Lot 59, Block 1

INDEX

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GENERAL NOTES:

1. Utility service lines, poles, valve boxes, meters and etc. are to be adjusted as necessary by others prior to 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. The Contractor will be required to work around existing utilities within the right-of-way which do not conflict with proposed construction.

2. A saw cut of at least one-half the depth of existing surface courses or one-fourth the depth of the existing total pavement thickness shall be provided at locations where proposed construction abuts on existing surface course or pavement for which partial removal of that surface or pavement is required. Sawed joint to facilitate removal within three (3) feet of existing joints will not be permitted and for such instances the limits of removal shall extend to the existing joint. Such saw cuts will not be paid for directly and this cost shall be considered as subsidiary to the project costs.

3. 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.

   All suitable excavation shall be wasted on lots within the boundaries of this benefit district. Material shall be spread evenly in 8" maximum lifts.

   All disposal sites must be approved by the Kansas Department of Health and Environment. Material either stockpiled or disposed of in a flood plain would require a Kansas State Board of Agriculture permit. Any material dumped in waters of the United States or wetlands is subject to U.S. Corps. of Engineers permitting regulations. Any material buried or stockpiled beyond approved construction limits would require additional archaeological investigations unless buried in a previously approved borrow location.

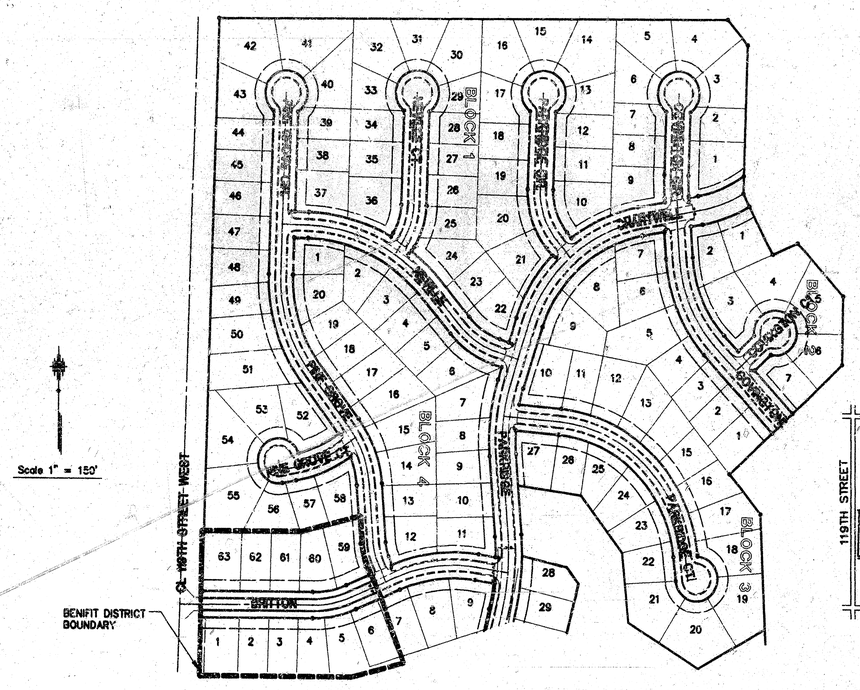
4. Trees and shrubs in public right-of-way which are in direct conflict with proposed new construction shall be removed by the Contractor with the Engineer's approval. Trees and shrubs which are not in direct conflict with proposed new construction shall be saved and protected from damage.

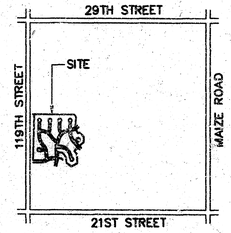
5. Limits of earthwork shall match existing ground elevations at the right-of-way line unless otherwise noted on the plans with a new finished grade elevation. When a new finished grade elevation is shown, the earthwork shall extend one foot beyond the right-of-way line and then slope up or down using permissable slopes to match the existing ground surface.

6. The Contractor shall be responsible for preserving property loans. The Contractor will be required to reestablish any property loans which are damaged or destroyed by his construction operations. Such loans shall be reestablished by a licensed land surveyor in accordance with state laws.

7. All transition curb paid for as Roll Type Curb.

8. All disturbed areas within street right-of-ways shall be seeded with temp. Rye grass within 14 days of disturbance at a rate of 200 lbs. per acre, except where otherwise noted on the plans. Contractor shall prepare ground per city spec. before seeding.





BENCH MARKS

(City of Wichita Datum)

1. City of Wichita Disc 67' S. of Centerline 21st Street & 46' E. of Centerline 119th Street West. Elev. 172.08
2. 80d Nail in P.P. 30' E. & 50' S. W. 1/4 Corner Section 6-T27S-R1W Elev. 172.08
3. 80d Nail in P.P. 40' W. & 40' N. of N.W. Corner Section 8-T27S-R1W Elev. 175.05
4. 80d Nail in P.P. 50' S. of N. 1/4 Corner Section 8-T27S-R1W Elev. 179.98

TOTAL PROJECT LENGTH: 458.80 L.F.= .09 Mi.

JANUARY 1997

PLANS PREPARED

BY

POE & ASSOCIATES OF KANSAS, INC.
CONSULTING ENGINEERS
5940 E. Central Suite 200 ■ Wichita KS 67208 ■ 316/685-4114

GREGORY A. MILLER LICENSED 7686 KANSAS PROFESSIONAL ENGINEER

5/1/97

EARTHWORK SUMMARY

Excavation	2440.1 C.Y.
Compacted Fill	0 C.Y.
Loose Fill	25.7 C.Y.
Waste	2414.4 C.Y.

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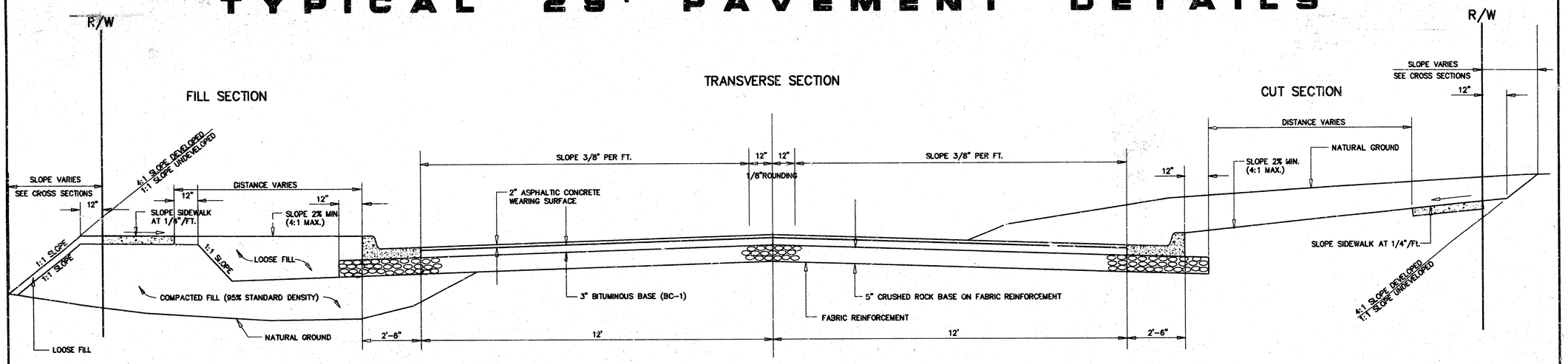
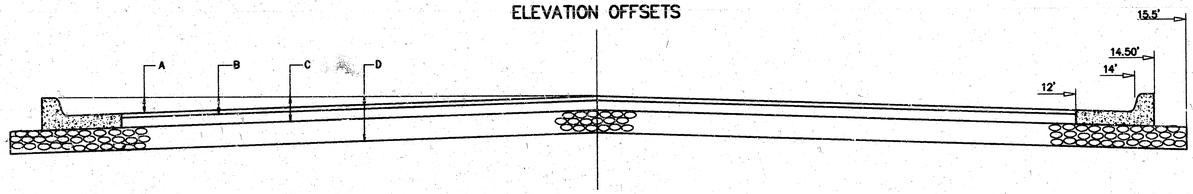
TYPICAL 29' PAVEMENT DETAILS

TRANSVERSE SECTION

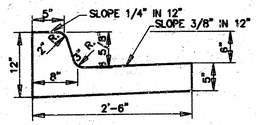


ELEVATION OFFSETS

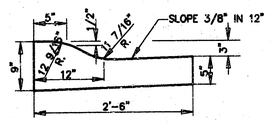


	DISTANCE FROM CENTERLINE (LT. & RT.)									
	0'	2'	4'	6'	8'	10'	12'	14'	14.5'	15.5'
A: TOP OF CURBS TO TOP OF SURFACE LIFT	0.13	0.18	0.24	0.30	0.33	0.36	0.43	0.49	–	–
B: TOP OF CURBS TO TOP OF UPPER BASE LIFT	0.30	0.35	0.41	0.47	0.50	0.53	0.60	0.66	–	–
C: TOP OF CURBS TO TOP OF LOWER BASE LIFT	0.55	0.60	0.66	0.72	0.75	0.78	0.85	0.91	0.98	1.00
D: TOP OF CURBS TO BOTTOM OF ROCK	0.97	1.02	1.08	1.14	1.17	1.20	1.27	1.33	1.40	1.42

COMBINED CURB & GUTTER



ROLL TYPE COMBINED CURB & GUTTER



GENERAL NOTES

ROCK BASE IS TO BE COMPACTED AND SMOOTHED WITH A STEEL FACED ROLLER PRIOR TO PLACEMENT OF ASPHALT. TACH 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.

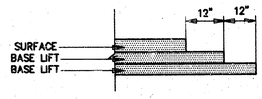
CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF ONE (1) FOOT FROM JOINTS IN PRECEDING LIFTS AND PLACED SO THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE OF THE TOP LIFT.

CRUSHED ROCK & RAP GRADATION REQUIREMENTS
Percent of Aggregate Retained

2-1/2"	0
3/4"	20 – 60
#4	50 – 80
#40	80 – 94
#200	90 – 98

ROCK QUALITY SHALL CONFORM TO THE REQUIREMENTS SPECIFIED BE THE KDOT 1990 EDITION STANDARD SPECIFICATION SUBSECTION 1102 FOR DURABILITY CLASS 1.

FABRIC BASE REINFORCEMENT SHALL BE 8 x 1100 #Y TENSAR CORP. OR APPROVED EQUAL. FABRIC BASE REINFORCEMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS. CRUSHED ROCK SHALL BE UNIFORMLY GRADED FROM 1 1/2" MAXIMUM SIZE TO NOT MORE THAN 10% PASSING A NO. 200 SIEVE. ROCK QUALITY SHALL BE THE SAME AS SPECIFIED FOR COARSE AGGREGATE FOR CONCRETE MIXES.



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" ASPHALTIC CONCRETE PAVEMENT (3" BITUMINOUS BASE)

POE & ASSOCIATES OF KANSAS, INC.
Consulting Engineers
5240 E. Central Suite 200 ■ Wichita KS 67208 ■ 316/685-4114

ENGINEER : K. Hill	5 INCH ASPHALTIC CONCRETE PAVEMENT WITH CRUSHED ROCK BASE ON FABRIC REINFORCEMENT
ENG. TECH. : D. I. Jakins	CITY OF WICHITA, KANSAS
CAD TECH: S. Schmidt	
DATE : January 1997	PROJECT NO. 472-82834
SHEET 2 of 7	INDEX CODE 764076

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GRAPHIC SCALE
20 0 10 20 40
(IN FEET)
1 INCH = 20 FT.

N

Install R1 Stop Sign
Install Street Name Sign
Existing Dirt Road
(70.20) EOR
(70.26) EOR
Sta. 0+00.00
10TH ST. WEST
(0.16%)
Existing Dirt Road
Exist. 8" Sanitary Sewer
Place 163.0 S.Yds. Road Gravel. Cost is subsidiary to project.
+0.5' Wk. Grade
-0.61% CL Grade
0+50 1+00 1+50 2+00 2+50 3+00 3+12.43 P.C. 3+25 3+50 3+75 4+00.69 P.T. 4+50 4+58.80
63 62 61 60 59
171.68 171.37 171.0 171.07 171.3 170.76 171.4 170.46 171.7 170.15 172.3 170.08 172.5 170.00 172.5 169.85 172.7 169.70 172.9 169.54 173.0 169.39 173.0
171.43 171.12 170.82 170.51 170.21 169.90 169.83 169.75 169.60 169.45 169.30 169.20 L=11.80' 169.05 L=23.48' 168.90 L=23.48' 169.05 169.16 169.31
170.9 170.57 170.27 169.98 169.68 169.35 169.28 169.20 169.62 172.6 169.77 172.6 169.70 172.6 165.47 172.9 169.92 173.1 169.16 169.31
170.59 171.1 170.69 171.2 170.30 171.4 170.08 171.7 L=13.33' L=28.52' 168.90 L=24.52' 169.05 169.16 169.31
BRITTON
58' R/W
29' B-B
14.50'
14.50'
Exist. 8" Waterline
Roll Type Comb. Cb. & Gtr. (3 5/8" and 1 1/2")
1 2 3 4 5 6 7
R = 201.00'
R = 216.00' Fc.
Remove Exist. End of Road Signs
5" A.C. Pavement w/5" Crushed Rock on Fabric Reinforcement
Existing Pavement
Sta. 4+92.80
Saw Cut & Match Exist. Pavement & Fl. Both Sides
Δ = 23°13'57"
R = 230.00'
T = 47.28'
L = 93.26'
R = 244.00' Fc.
R = 259.00'
-0.61% CL Grade
+0.5' Wk. Grade
PINE GROVE
ABERDEEN 1ST ADDITION

Δ =23°13'57" L=93.26' R=230.00' T=47.28'

CURVE TABLE BASED ON CL RADIUS

STATION	CL ARC	CHORD LENGTH @ LT.	CHORD LENGTH CL	CHORD LENGTH @ RT.	DEFLECTION	TOTAL DEFLECTION
3+12.43 P.C.						
3+25.00	12.57'	11.37'	12.57'	13.77'	1°33'58"	1°33'58"
3+50.00	25.00'	22.60'	24.99'	27.38'	3°05'50"	4°40'36"
3+75.00	25.00'	22.60'	24.99'	27.38'	3°05'50"	7°47'36"
4+00.00	25.00'	22.60'	24.99'	27.38'	3°05'50"	10°54'27"
4+00.69 P.T.	3.89'	3.19'	3.89'	4.61'	0°27'30"	11°21'57"
DEFLECTION/FOOT =.124558042 DEGREES					7.473382545	MINUTES

POE & ASSOCIATES OF KANSAS, INC.
Consulting Engineers
5940 E. Central Suite 200 ■ Wichita KS 67208 ■ 316/685-4114

ENGINEER : K. Hill	Street Improvements BRITTON ST.
ENG. TECH. : D. Haskins	CITY OF WICHITA, KANSAS
CAD TECH: S. Schmidt	
DATE : January 1997	Project No. 472-82634
SHEET 3 of 7	Index Code 784076

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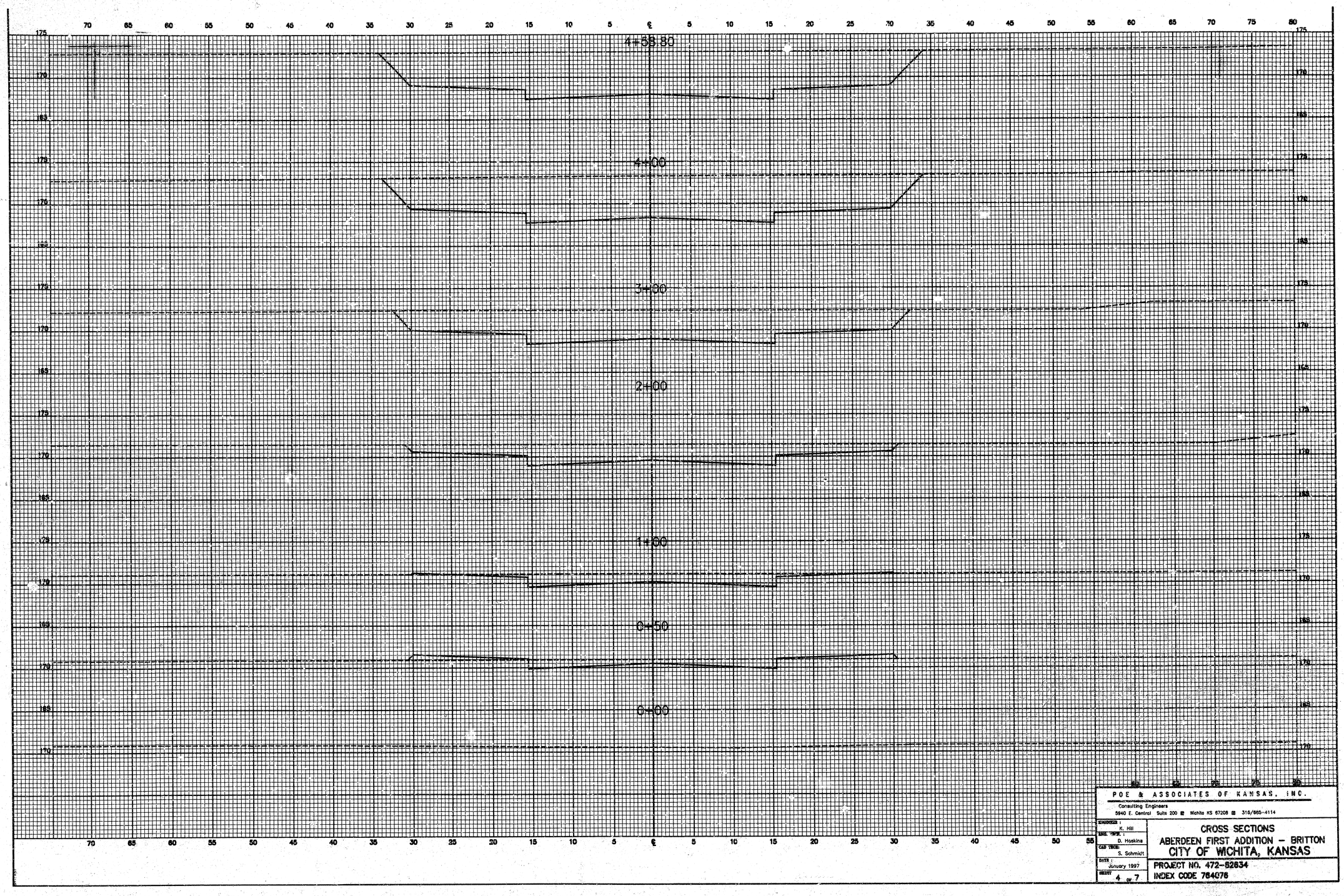

POE & ASSOCIATES OF KANSAS, INC.
Consulting Engineers
5940 E. Central Suite 200 ■ Wichita KS 67208 ■ 316/665-4114

ENGINEER : K. Hill	CROSS SECTIONS
ENG. TECH. : D. Hoskins	ABERDEEN FIRST ADDITION – BRITTON
CAD TECH. : S. Schmidt	CITY OF WICHITA, KANSAS
DATE : January 1997	PROJECT NO. 472-82634
SHEET 4 OF 7	INDEX CODE 764076

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BRITTON

STATION	AREAS Square Feet			VOLUMES Cubic Yards			CUMULATIVE VOLUMES Cubic Yards		
	CUT	LOOSE FILL	COMPACTED FILL	CUT	LOOSE FILL	COMPACTED FILL	CUT	LOOSE FILL	COMPACTED FILL
0+00.00	0.00	0.00	0.00						
0+50.00	22.94	11.06	0.00	21.24	10.26	0.00	21.24	10.26	0.00
1+00.00	41.81	0.85	0.00	59.85	10.66	0.00	81.19	21.12	0.00
2+00.00	87.92	0.00	0.00	258.76	1.20	0.00	339.95	22.32	0.00
3+00.00	194.61	0.00	0.00	531.72	0.00	0.00	871.68	22.32	0.00
4+00.00	295.32	0.00	0.00	907.28	0.00	0.00	1788.95	22.32	0.00
4+58.80	302.69	0.00	0.00	651.17	0.00	0.00	2440.12	22.32	0.00
				0.00	0.00	0.00	2440.12	22.32	0.00

EARTHWORK SUMMARY

STREET	CUT CU. YDS.	LOOSE FILL CU. YDS.	COMPACTED FILL CU. YDS.
BRITTON	2440.1	22.3	0
TOTAL	2440.1	22.3	0
15% SHRINKAGE		3.4	0
PROJECT TOTAL	2440.1	25.7	0
WASTE 2414.4 C. YDS.			

POE & ASSOCIATES OF KANSAS, INC.
Consulting Engineers
5940 E. Central Suite 200 ■ Wichita KS 67208 ■ 316/685-4114

ENGINEER: K. Hill
ENG. TECH.: D. Haskins
CAD TECH.: S. Schmidt
DATE: January 1997
SHEET 5 of 7

SUMMARY OF EARTHWORK
ABERDEEN FIRST ADDITION – BRITTON
CITY OF WICHITA, KANSAS

Project No. 472-82634
Index Code 784076

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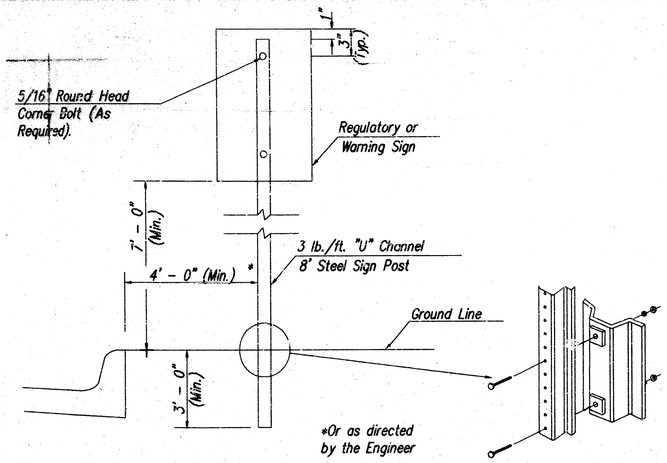
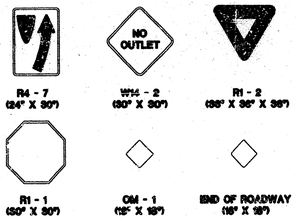
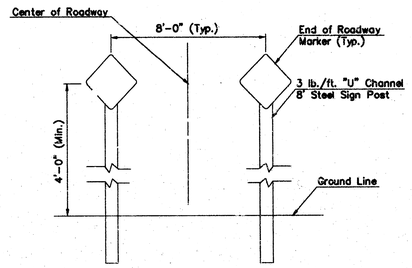
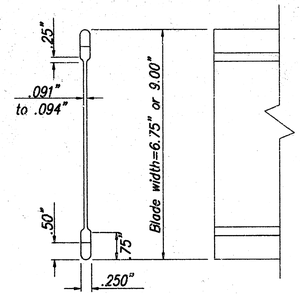


TYPICAL TRAFFIC CONTROL SIGN MOUNTING INSTALLATION
CURB AND GUTTER SECTION





TYPICAL END OF ROADWAY SIGN MOUNTING INSTALLATION

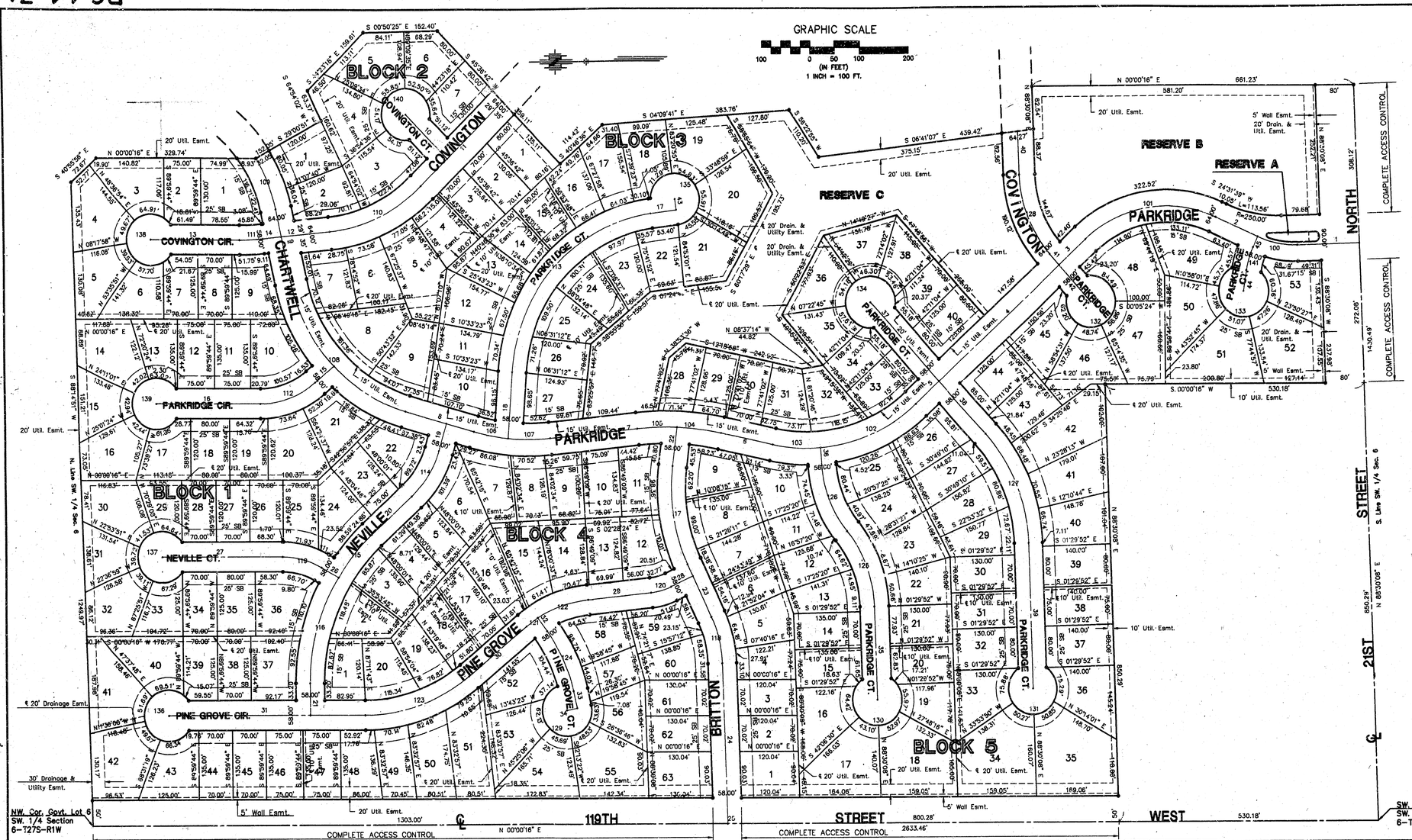


STREET NAME SIGN
BLADE DETAILS

SIGN ASSEMBLY TABLE

STATION	OFFSET	SIGN	QUANTITY*
0+33	24' LT.	ST.NAME	1
0+35	24' LT.	R1-1	1

PC 44-7A



KENNY E. HILL LICENSED LAND SURVEYOR

3-28-94

LINE	DIRECTION	DISTANCE
1	N 01°29'52" W	129.31'
2	N 24°31'39" E	92.19'
3	N 42°11'04" W	74.42'
4	N 42°11'04" W	333.56'
5	N 42°11'04" W	64.58'
6	N 12°18'58" E	108.19'
7	N 05°57'26" W	179.25'
8	N 16°04'17" E	144.65'
9	N 78°14'52" E	145.41'
10	S 45°36'42" W	120.75'
11	N 44°23'16" W	235.08'
12	N 05°49'15" W	97.45'
13	N 00°00'16" E	180.73'
14	N 05°49'15" W	38.26'
15	N 40°34'25" W	48.98'
16	N 00°00'16" E	213.82'
17	S 07°33'11" E	53.40'
18	S 86°12'54" E	130.53'
19	N 73°55'43" W	55.43'
20	N 41°59'59" W	110.67'
21	N 89°59'44" W	62.20'
22	S 82°52'30" E	76.10'
23	N 65°16'11" E	87.11'
24	N 88°30'08" E	312.43'
25	N 00°00'16" E	2633.46'
26	N 30°05'39" E	38.69'
27	N 00°00'16" E	249.03'
28	N 24°43'49" W	49.49'
29	N 05°45'46" W	130.62'
30	N 38°45'21" W	153.66'
31	N 00°00'16" E	403.41'
32	S 53°41'59" W	32.06'
33	S 78°04'41" W	33.44'
34	N 11°55'19" W	21.00'
35	N 88°30'08" E	181.49'
36	N 86°19'34" E	34.77'
37	N 47°48'56" E	207.91'
38	N 47°48'56" E	138.84'
39	N 88°30'08" E	282.84'
40	N 88°30'08" E	65.56'
41	N 47°48'56" E	28.97'
42	N 47°48'56" E	95.93'
43	N 82°26'49" E	21.00'
44	N 81°10'36" W	40.73'
45	N 65°28'21" W	22.80'

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
100	183.00'	83.12'	42.29'	82.41'	S 11°30'54" W	26°01'31"
101	245.00'	265.26'	161.28'	269.42'	N 05°49'42" W	66°42'43"
102	330.00'	214.44'	111.16'	210.69'	S 23°34'06" E	37°13'56"
103	330.00'	99.46'	50.11'	99.08'	S 03°40'55" W	17°16'05"
104	540.00'	90.16'	45.19'	90.06'	N 07°31'58" E	09°34'00"
105	540.00'	82.06'	41.11'	81.98'	N 01°36'14" W	08°42'23"
106	415.00'	72.49'	36.34'	72.40'	S 11°04'03" W	10°00'29"
107	415.00'	87.07'	43.69'	86.91'	S 00°03'11" W	12°01'14"
108	332.00'	360.28'	200.18'	342.86'	S 47°09'35" W	62°10'35"
109	296.32'	107.35'	54.27'	106.77'	N 67°52'08" E	20°45'28"
110	315.00'	212.04'	110.21'	208.08'	S 29°06'16" E	38°34'03"
111	480.00'	48.80'	24.42'	48.78'	S 02°56'29" E	05°49'31"
112	171.00'	121.11'	63.22'	118.59'	S 20°17'05" E	40°34'41"
113	331.00'	454.43'	271.22'	419.58'	N 46°53'02" W	78°39'43"
114	190.00'	105.88'	54.35'	104.52'	S 57°57'51" E	31°55'43"
115	388.00'	108.59'	54.65'	108.24'	N 50°01'04" W	16°02'10"
116	388.00'	216.43'	111.11'	213.63'	N 74°00'57" W	31°57'35"
117	352.00'	195.71'	100.45'	193.19'	S 81°11'50" W	31°51'19"
118	230.00'	93.26'	47.28'	92.62'	N 76°53'09" E	23°13'57"
119	156.00'	81.93'	41.93'	80.99'	N 15°02'58" E	30°05'23"
120	128.00'	42.37'	21.38'	42.18'	S 15°14'47" E	18°58'04"

CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
121	240.00'	28.83'	14.43'	28.81'	N 35°18'53" W	06°52'57"
122	240.00'	109.37'	55.65'	108.43'	N 18°49'05" W	26°06'38"
123	340.00'	230.01'	119.60'	225.65'	S 19°22'33" E	38°45'37"
124	303.42'	129.10'	65.54'	128.13'	N 65°53'20" E	24°22'42"
125	245.17'	158.29'	82.01'	155.56'	N 70°00'22" E	36°59'32"
126	228.82'	139.04'	71.74'	136.91'	S 68°55'05" W	34°48'57"
127	329.00'	233.63'	121.98'	228.75'	N 68°09'32" E	40°41'12"
128	240.00'	170.43'	88.99'	166.87'	S 68°09'32" W	40°41'12"
129	50.00'	227.12'				260°15'41"
130	50.00'	252.29'				289°05'56"
131	50.00'	252.29'				289°05'56"
132	50.00'	252.29'				289°05'56"
133	50.00'	252.29'				289°05'56"
134	50.00'	252.29'				289°05'56"
135	50.00'	227.61'				260°49'10"
136	50.00'	252.29'				289°05'56"
137	50.00'	252.29'				289°05'56"
138	50.00'	252.29'				289°05'56"
139	50.00'	252.29'				289°05'56"
140	50.00'	252.29'				289°05'56"
141	170.84'	46.82'	23.56'	46.68'	N 73°19'28" W	15°42'15"

BENCH MARKS

City of Wichita Bench Mark Disc, 67' south of centerline 21st St. & 79' south of section line, and 46' east of centerline 119th St. Elevation 172.02

80d nail in power pole, 30' east and 50' south of Northwest Corner of Government Lot 6 in SW Quarter of Section 6-T27S-R1W. Elevation 172.08

80d nail in power pole 50' south of NE Corner of of Government Lot 3 in NW Quarter of Section 6-T27S-R1W. Elevation 179.98

All Easements are either 10 feet wide or 20 feet wide Utility Easements unless otherwise noted.

The Minimum Low Opening Elevation of the homes built in this addition shall be 167.5 (City of Wichita Datum).(1354.9 MSL)

Front yard Building Setback Lines are 25 feet and Sideyard Building Setback Lines are 15 feet unless otherwise shown.

ABERDEEN FIRST ADDITION

TO WICHITA, SEDGWICK COUNTY, KANSAS

WICHITA-SEDGWICK COUNTY METROPOLITAN AREA PLANNING COMMISSION SEAL KANSAS

SHEET NO. 7 OF 7

M:\RPCSYDCA\PLS\1311ABER3 Thu Mar 31 09:08:25 1994 Steve Schmidt

18-8-1-PC 44-7A