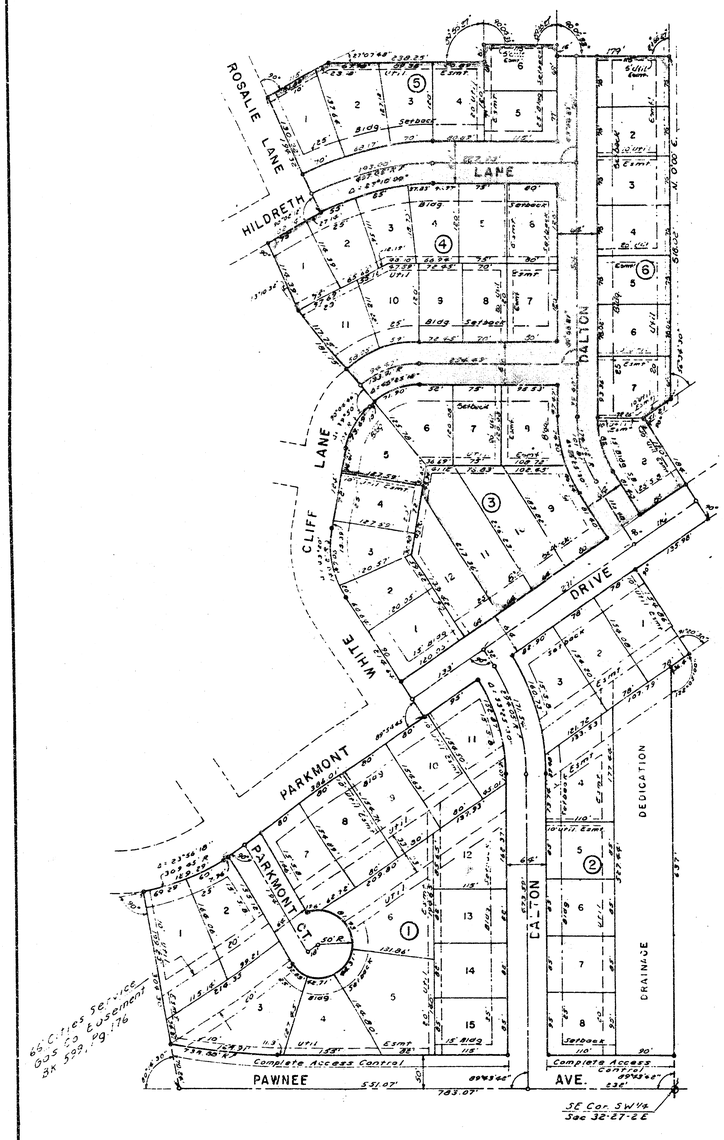


PHASE I

STREET IMPROVEMENTS FOR

FIFTH ADDITION TO CHERRY CREEK HILLS

PROJECT NO.

472-76-245-81128-000-000-001

DALTON – FROM THE N.W. LINE PARKMONT DR. TO N.L. LOT 1, BLK 6, 5TH ADDITION TO CHERRY CREEK HILLS.

HILDRETH LANE – FROM THE E.L. ROSALIE LANE TO W.L. DALTON.

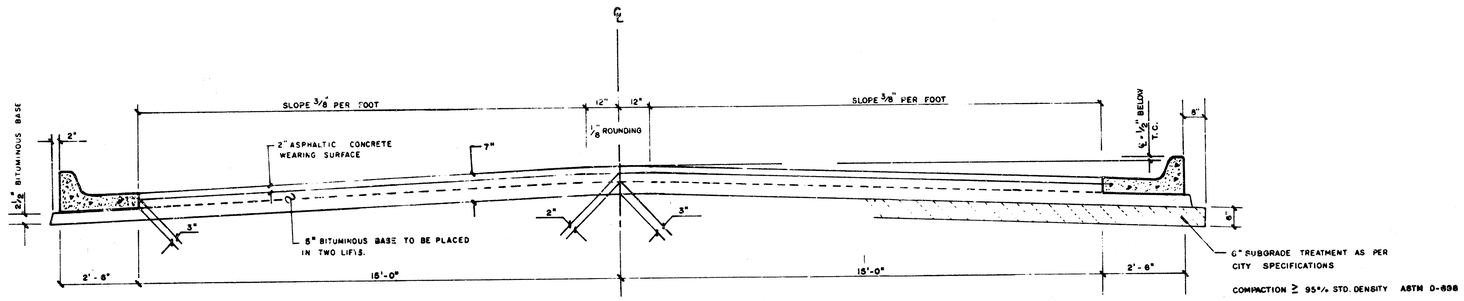
WHITE CLIFF LANE – FROM THE WESTERLY LINE LOT 6, BLK 3, & LOT 11, BLK 4, 5TH ADDITION TO CHERRY CREEK HILLS TO W.L. DALTON.

CITY OF WICHITA, KS

R. W. BRUGGEMAN ——— DIRECTOR OF ENGINEERING

H. BRENT WOOTEN LICENSED 8470 KANSAS PROFESSIONAL ENGINEER

BAUGHMAN COMPANY, P.A.
SURVEYING & ENGINEERING
316/262-7271 • 330 LAURA • WICHITA, KANSAS 67211



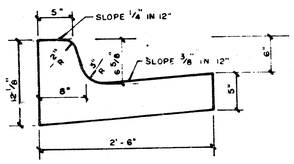
TYPICAL SECTION

35' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

A TACK COAT OF EMULSIFIED ASPH (SS-1H or CSS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID DIRECTLY AND SHALL BE CONSIDERED AS SUBSIDIARY TO PRICE BID FOR ASPHALTIC PAVEMENT.

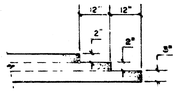
BITUMINOUS BASE AND ASPHALTIC CONCRETE WEARING SURFACE SHALL BE PLACED WITH A LAYDOWN MACHINE HAVING AUTOMATIC CONTROLS FOR CROWN AND GRADE. CONSTRUCTION JOINTS IN EACH LIFT SHALL BE STAGGERED A MINIMUM DISTANCE OF 1' WITH JOINTS IN PRECEDING LIFTS AND PLACED SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE CENTERLINE IN THE TOP LIFT.

COMBINED CURB & GUTTER



THE A.C PAVEMENT BETWEEN THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 7" A.C. PAVEMENT (5" BITUMINOUS BASE).
THE BITUMINOUS BASE UNDER THE COMBINED CURB AND GUTTER SHALL BE PAID AS SQ YDS 2½" BITUMINOUS BASE.

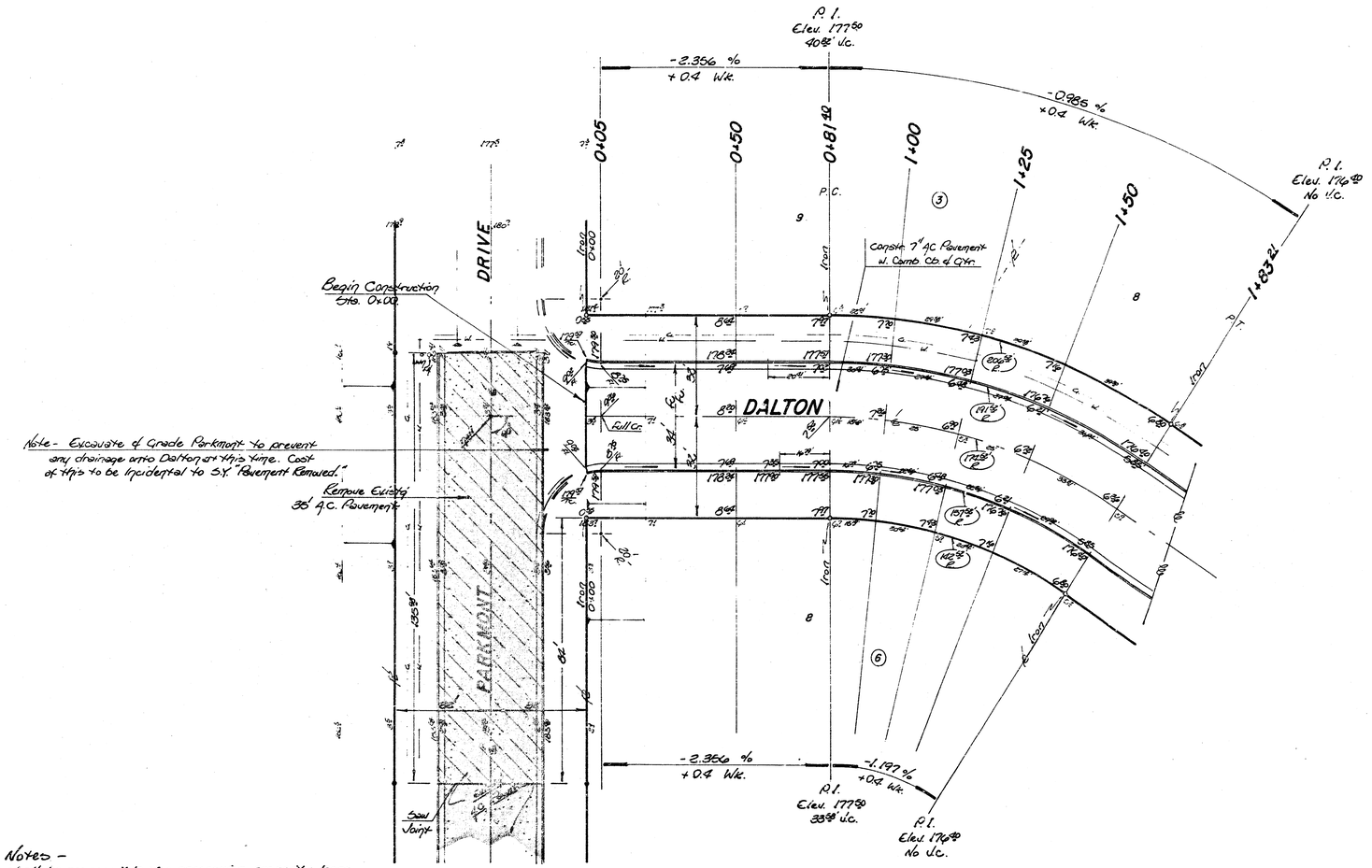
DETAIL OF TRANSVERSE CONSTRUCTION JOINTS



TRANSVERSE CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN FLEXIBLE BASE PAVEMENTS AT LOCATIONS WHERE PAVEMENT TEMPORARILY ENDS TO FACILITATE FUTURE PAVEMENT CONSTRUCTION AS SHOWN BY DETAIL. THE COST OF CONSTRUCTING THE TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE MEASURED OR PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE BID PRICE FOR SQUARE YARDS OF A.C. PAVEMENT.

CITY OF WICHITA, KANSAS

B.M. 192.20 City Std. Disc 48' S. of 2' E. 1/4 cor. 1/2 mile East Rock Rd. & Rawnee
B.M. 178.40 Top W. curb Rosalie & Cherry Creek Dr. 55' South of S. Line Cherry Creek Dr.



Scale: 1" = 20'

$\Delta = 33°25'30"$ R = 176.58' T = 52.40' L = 100.37' Lc = 101.21'

Curve Data Based on ℄ Radius. 4/2 = 16°42'45"

Sta.	Arc.	Chord length 8' off L.c.b.	Chord length 8' off R.c.b.	Defl.	Total Defl.
0+81.42	—	—	—	0°00'00"	0°00'00"
1+00	18.40'	21.25'	15.33'	3°03'12"	3°03'12"
1+25	25'	28.54'	21.40'	4°06'13"	7°09'25"
1+50	25'	28.54'	21.40'	4°06'12"	11°15'37"
1+83.21	33.21'	37.91'	28.41'	5°27'08"	16°42'45"

Defl./Ft. = 9.849148 min

General Notes -

The 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 operations. Such irons shall be re-established by a licensed land surveyor or a professional engineer in accordance with state laws.

Trees to be removed are marked this , except that any tree which in the opinion of the Engineer can be saved, shall be spared.

Contractor to co-ordinate construction with the sanitary sewer contractor for proposed sewer Cont. 72. War Industries Sewer, which will cross Hilchrety & White Cliff Cirs.

Legend

- W — Proposed Water Line
- G — Proposed Gas Line
- Property Lot Line
- Pavement Removal
- Hedgerow & Fence Removal.
- Sanitary Sewer (Proposed)

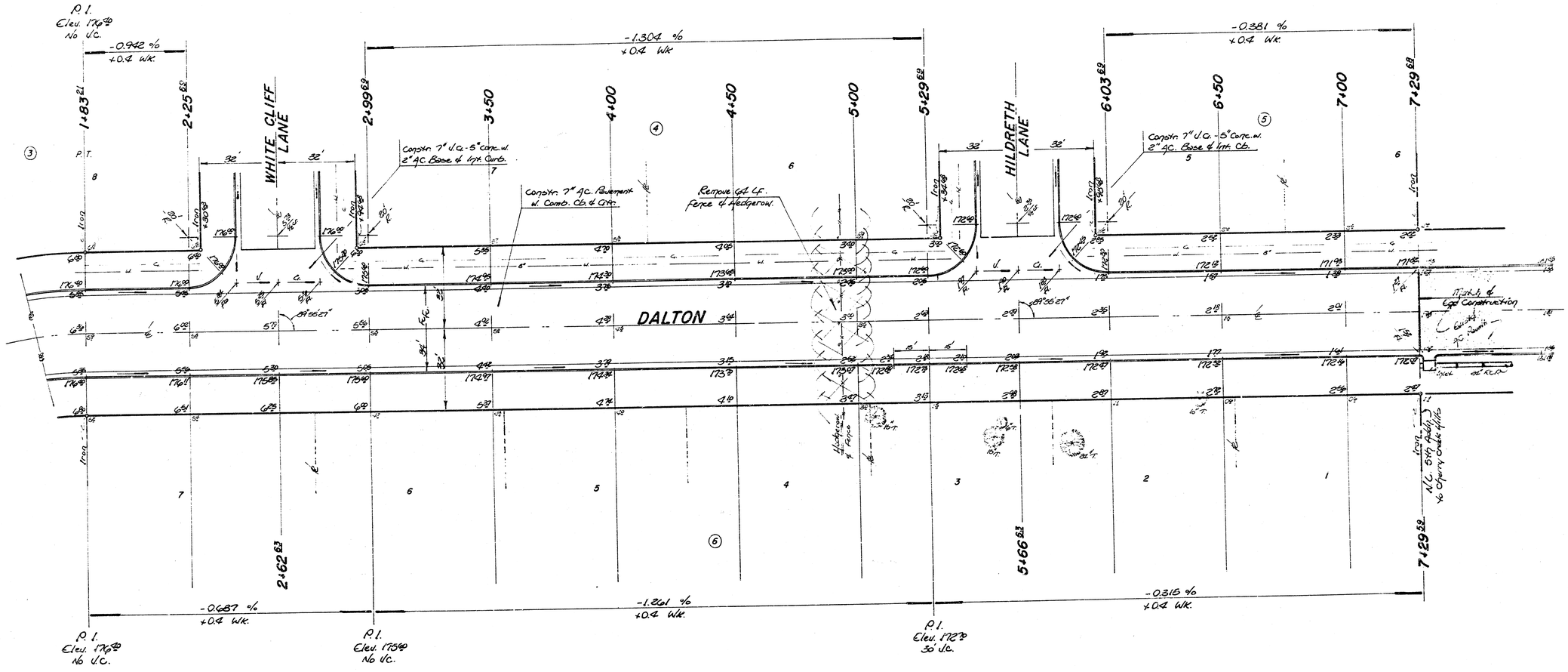
Earthwork Quantities

Property		City	
Excavation = 2839.1 C.Y.	Comp. Fill = 31.5 C.Y.	Excavation = 2302 C.Y.	Comp. Fill = 2.6 C.Y.
+10 % = 283.9 C.Y.	+10 % = 3.2 C.Y.	+10 % = 230 C.Y.	+10 % = 0.3 C.Y.
Total = 3123.0 C.Y.	Total = 34.7 C.Y.	Total = 2532 C.Y.	Total = 2.9 C.Y.
Manipulation = 5537 S.Y.		Manipulation = 404 S.Y.	

DALTON

3/5

Scale: 1" = 20'



INTERSECTION QUANTITIES

___	S.Y. ___" Concrete Pavement
1067	S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
___	S.Y. ___" Bituminous Base
___	L.F. Combined Curb & Gutter
426	L.F. Integral Curb
___	S.F. 4" Wheelchair Ramp
___	S.F. 4" Walk
115.1	C.Y. Excavation
1.3	C.Y. Compacted Fill
4896	Lbs. Reinforcing Steel
2019	S.Y. Manipulation
2.5	Tons Lime or Cement
922	S.Y. V.G. 5 " Concrete & 2 " Asphaltic Concrete Base

INTERSECTION QUANTITIES

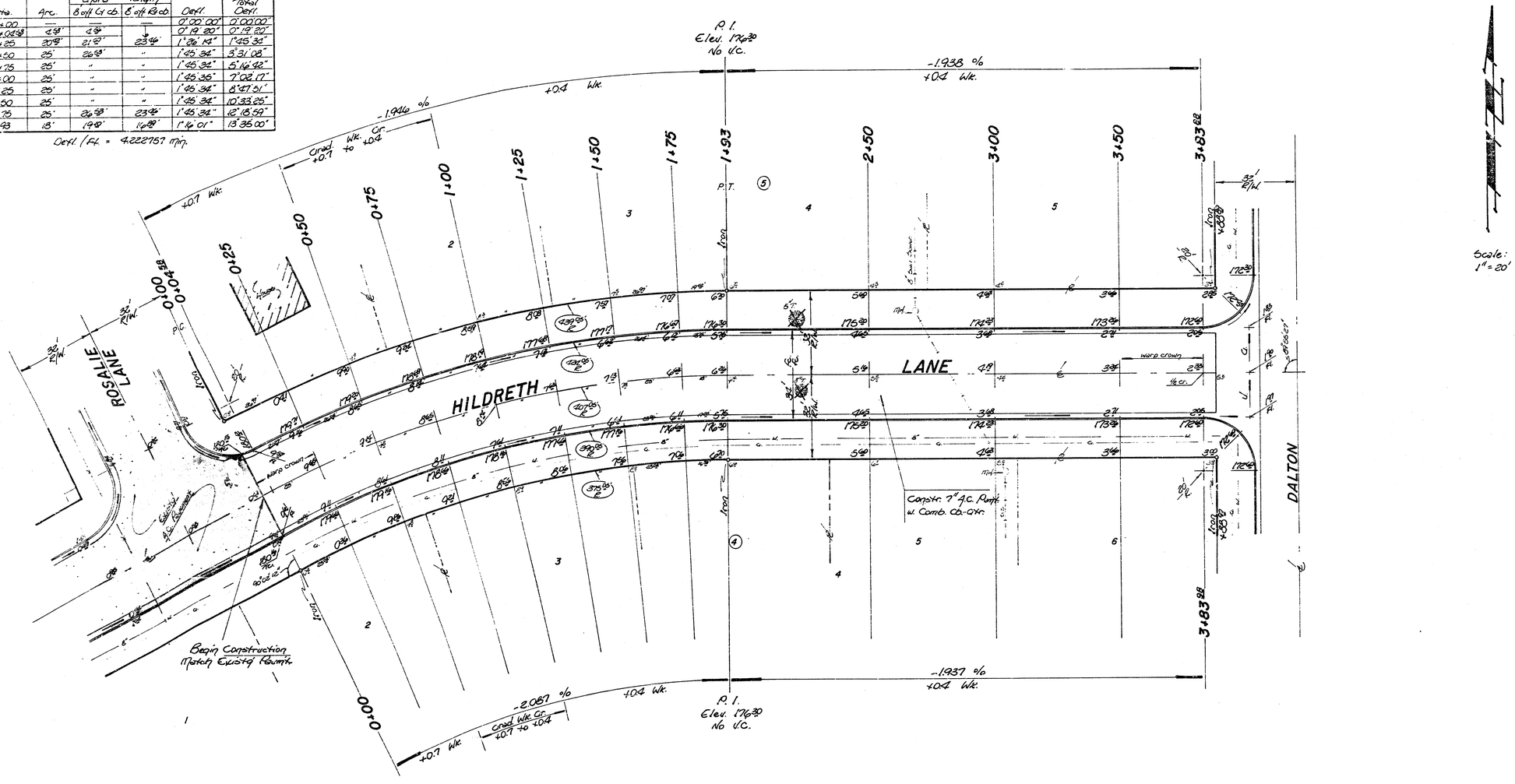
___	S.Y. ___" Concrete Pavement
1067	S.Y. 7 " Asphaltic Conc. Pavement (5 " Bituminous Base)
___	S.Y. ___" Bituminous Base
___	L.F. Combined Curb & Gutter
426	L.F. Integral Curb
___	S.F. 4" Wheelchair Ramp
___	S.F. 4" Walk
115.1	C.Y. Excavation
1.3	C.Y. Compacted Fill
4896	Lbs. Reinforcing Steel
2019	S.Y. Manipulation
2.5	Tons Lime or Cement
922	S.Y. V.G. 5 " Concrete & 2 " Asphaltic Concrete Base

DALTON

Δ = 27°10'00" R = 407.05' T = 98.35' L = 193.99' LC = 191.94'

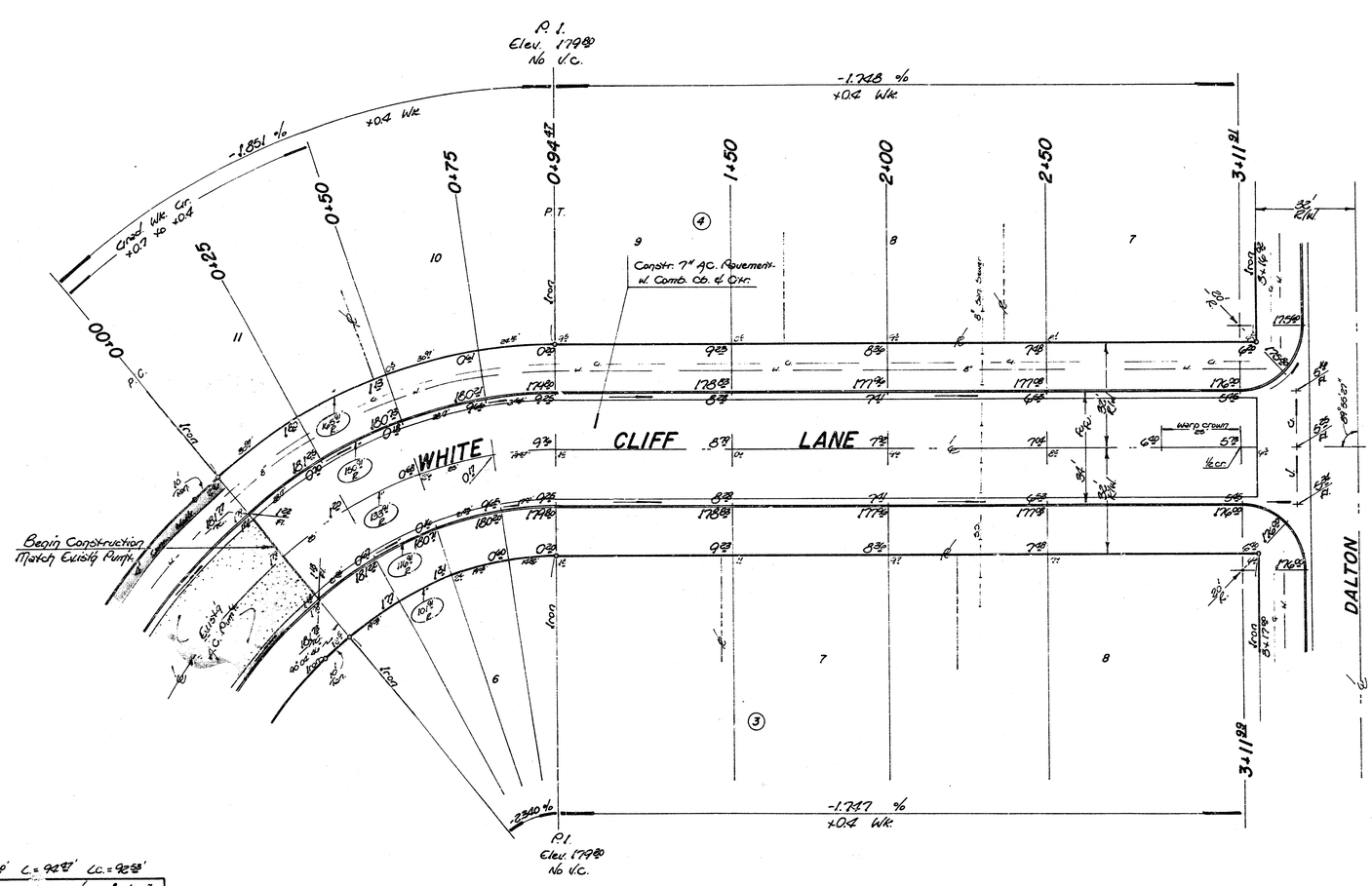
Curve Data Based on ℄ Radius					1/2 = 13°35'00"
		chord	length		
Sta.	Arc.	δ off Ch.	δ off Rad.	Defl.	Total Defl.
0+00	—	—	—	0°00'00"	0°00'00"
0+04.58	4.58'	4.58'	↓	0°19'20"	0°19'20"
0+25	20.58'	21.58'	23.46'	1°26'14"	1°45'34"
0+50	25	26.58'	"	1°45'34"	3°31'08"
0+75	25'	"	"	1°45'34"	5°16'42"
1+00	25'	"	"	1°45'35"	7°02'17"
1+25	25'	"	"	1°45'34"	8°47'51"
1+50	25'	"	"	1°45'34"	10°33'25"
1+75	25'	26.58'	23.46'	1°45'34"	12°18'59"
1+93	18'	19.08'	16.88'	1°16'01"	13°35'00"

Defl./FL = 4.222757 min.



HILDRETH LANE

5/10



Scale: 1" = 20'

Δ = 40°26'18" R = 133.91' T = 49.39' L = 94.47' LC = 92.53'

Curve Data Based on ℄ Radius 4/℄ = 20°12'39"					
Sta.	Arc	Chord 6 off (x cb)	Length 6 off (x cb)	Defl.	Total Defl.
0+00	—	—	—	0°00'00"	0°00'00"
0+25	25'	24.92'	20.39'	5°20'54"	5°20'54"
0+50	25'	24.92'	20.39'	5°20'54"	10°41'48"
0+75	25'	24.92'	20.39'	5°20'54"	16°02'42"
0+94.92	14.92'	23.59'	15.82'	4°09'36"	20°12'39"

Defl. / Ft. = 12.83603 min.

WHITE CLIFF LANE

Sheet No. 1 % CITY-PROP SPLIT

Project No. 81128

F-192-066

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

STREET NAME DALTON FROM _____ TO _____ CONTRACTOR NUD-KAISER KIND OF PAVEMENT 7" P.C.

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
SQ YDS -		AC			
0+00	30.0	720'	30.0		
7+20	30.0				
	-	2x15.0x		64.0	
	+	2x0.26			
		19,966	30.0		2,218.5 SY
SQ YDS. 7"		VG (PROP)			
		4x13.58			
		54.32'			6.0 SY
SQ YDS.		FINIP			
		1x19,966		9.00	
		2.17x1,311.0			
		1x54.32			
		0.67x20.0			
		24,190.51'			2,687.8 SY
SQ YDS. 2 1/2"		BIT. BASE			
		2.67x1,311.0+8			
				=	388.9 SY
SQ YDS.		PVMT REM. (INSP. OD)			
		35°x140.0÷9			
				=	544.4 SY

End Area At Station	End Area Area	Dist.	Av. Area	Volume	Cubic Yards Excavation

81 LF HEDGE REM (INSP. OND)

TOT LIME (@ 12#/SY)
CALC ~ 35.6 (USE 36)
TICKETS ~ 37

Measured By	PARM
Date	OCT 82
Book No.	12-K
Finaled By	TATE

Eng. Est. 1

	MENIP	LIME	2 1/2 BIT	SY 1"	Square Yards 7" Pavement P.C.	Int. Cb.	C & G	6" Dr.	Cubic Yards Excavation	COMP FILL	PVMT REM.	HEDGE REM	SAW CT	FE MOV				
CITY & Property	2,687.8		388.9	184.4	2,218.5	20.0	1,311.0	0										
INTERS	403.8		0.0	6.0	213.4	85.2	0.0	0	1,057.8	34.1'	544.4	81	35	64				
Totals	3,091.6		388.9	190.4	2,431.9	105.2	1,311.0	0										

7/12

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Sheet No. 3

Project No. 51128

Form 192-066

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

STREET NAME WHITE WOLFF FROM _____ TO _____ CONTRACTOR MID-KANSAS KIND OF PAVEMENT 7" REINFORCED CONC.

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement	End Area At Station	End Area Area	Dist.	Av. Area	Volume	Cubic Yards Excavation
BEG. SPUR 7" REINF. CONC. (BITT)											
STA. 5	30.0										
		8.67	30.0								
STA. 6	30.0										
		9.50	30.0		1,055.7 SY						
BEG. DEL 1" HMIP											
		1X9,501.0									
		2.17X623.4									
		11,508.678			1,278.5 SY						
BEG. SPUR 2½" BIT. STREET											
		2.67X623.4=3									
				=	187.9 SY						

Measured By	FFRH
Date	OCT 82
Book No.	12-K
Finaled By	FATE

Eng. Est. 5

	HMIP		2½" BIT		Steel	Square Yards 7" Pavement	Int. Cb.	C & G	6" Dr.	Cubic Yards Excavation									
Property									0										
City																			
Totals	1,278.8'		187.9			1,055.7		623.4	0	1,274.6'									8/12

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Project No. 81128

Sheet No. 3

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

Form 192-066

STREET NAME [illegible] FROM _____ TO _____ CONTRACTOR MID-KANSAS KIND OF PAVEMENT 7" [illegible]

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
30+00					
34+55	30.0				
34+52	20.0	3869	30.0		
		11,607.0			1,289.7 SY
MANIPULATION					
		1X11,607.0			
		3.17X773.8			
		14,059.95			1,562.2 SY
SQ YDS 2 1/2" BIT BASE					
		2.67X773.8			
			=		229.6 SY

End Area At Station	End Area Area	Dist.	Av. Area	Volume	Cubic Yards Excavation

	MANIP		2 1/2" BIT		Steel	Square Yards 7" Pavement	Int. Cb.	C & G	6" Dr.	Cubic Yards Excavation						Eng. Est.			
Property																				
City																	2			9/12
Totals	1,562.2		229.6			1,289.7		773.8		736.3										

Measured By	PARM
Date	OCT 82
Book No.	12-K
Finaled By	TATE

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Sheet No 4

Project No. 472-Ke-245-81128-000-000-001

Form 192-066

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

STREET NAME DALTON FROM N.W. Line Parkmoor Dr. TO N.L. Lot 1, Blk. 6, Sth Addn. CONTRACTOR MID-KANSAS KIND OF PAVEMENT

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
EXCAVATION					
[illegible]	[illegible]				
[illegible]	[illegible]	10	[illegible]		4.37
[illegible]	[illegible]	15	[illegible]		6.78
[illegible]	[illegible]	20	–		–
[illegible]	[illegible]	50.40	–		–
[illegible]	[illegible]	40.00	[illegible]		1.97
14+00	[illegible]	[illegible]	1.85		30.15
[illegible]	[illegible]	42.44	[illegible]		20.55
[illegible]	[illegible]				
FILLET (2.12 x 2.12)		(1.06 x 1.06)			4.60
24+38.67	[illegible]				
24+44.50	[illegible]	19.00	[illegible]		5.07
[illegible]	[illegible]	19.00	21.25		60.46
[illegible]	[illegible]	19.19	17.65		15.55
[illegible]	[illegible]	18.35	19.20		13.24
34+44.64	[illegible]				
FILLET (1.62 x 1.62)		(1.62 x 1.62)			4.31
[illegible]	[illegible]				
[illegible]	[illegible]	30.04	[illegible]		14.62
[illegible]	[illegible]	39.01	[illegible]		16.24
[illegible]	[illegible]				
[illegible]	[illegible]	30.31	50.35		71.46
5+50	42.3	60	42.60		42.32
4+00	57.3	50	49.65		1,116.34
4+50	[illegible]	50	55.50		117.64
5+00	56.0	39.69	41.25		45.24
5+32.68	24.8				
FILLET (2.12 x 2.12)		(1.62 x 1.62)			4.79
[illegible]	[illegible]				
5+24.00	18.3	18.83	20.35		14.14
5+46.52	21.6	18.17	23.00		25.66
5+65.13	24.0				

End Area At Station	Area
5+61.61	[illegible]
5+74.64	[illegible]
6+08.64	[illegible]
FILLET (2.12 x 2.12)	
5+31.64	[illegible]
5+60.64	[illegible]
6+03.41	[illegible]
[illegible]	[illegible]
6+50	[illegible]
7+00	19.6
7+21.64	[illegible]
Compacted fill	
0+05	0
[illegible]	18.8
0+50	14.1
0+81.46	0
1+25	3.3
1+83.31	0
Rough grade fill	
0+05	0
0+26	18.8
0+50	18.8
0+84	16.8
1+25	10.4
1+65.31	0
1+83.64	0
2+00	7.8
2+00	0

Dist.	Av. Area	Volume	Cubic Yards Excavation
[illegible]	[illegible]	→	[illegible]
[illegible]	[illegible]		[illegible]
FILLET (2.12 x 2.12)		→	1.05
[illegible]	[illegible]		[illegible]
[illegible]	[illegible]		[illegible]
[illegible]	49.15		70.21
[illegible]	[illegible]		[illegible]
[illegible]	25.15		15.41
TOTAL			
			1057.90
15.0	6.4	→	[illegible]
50	1.05		1.50
51.4	1.00		[illegible]
42.6	1.15		[illegible]
68.31	1.15		[illegible]
TOTAL COMP. FILL =			24.13 cy
15	1.5	→	[illegible]
30	18.50		[illegible]
51.4	[illegible]		[illegible]
42.6	15.70		[illegible]
68.31	5.45		11.78
46.31	3.9		6.67
50.0	3.9		7.22
TOTAL			
TOTAL FILL			13.85 cy

FILLET

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

		(1.37)	(1.37)
		Comp	Rough
TOTAL EXCAVATION =	3066.78 cy	2838.62	230.16
COMP. FILL =	24.13 cy =	31.57	[illegible]
ROUGH FILL =	93.83 cy =	86.71	7.04

Measured By	
Date	
Book No.	
Finaled By	

Eng. Est. :

	Steel	Square Yards Pavement	Int. Cb.	C & G	6" Dr.	Cubic Yards Excavation	Cubic Yards Comp. Fill
Property						2838.62	31.57
City						230.2	7.04
Total's							

10/12

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Sheet No. 5

Project No. 472-76-345-8112B-000-000-001

Form 192-066

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

STREET NAME HILCRETH WHITE CLIFF LANE FROM E.L. Roodlie W.L. Cot 6, Blk 3 & Cot 11, Blk 4 To W.L. Dalton W.L. Dalton CONTRACTOR [illegible] KIND OF PAVEMENT

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
[illegible]	[illegible]				
[illegible]	[illegible]				
[illegible]	[illegible]				
[illegible]	[illegible]				
[illegible]	[illegible]	45.0	[illegible]		3.80
[illegible]	4.8	46.48	[illegible]		37.86
[illegible]	[illegible]	50	[illegible]		14.81
[illegible]	[illegible]	50	[illegible]		18.52
[illegible]	[illegible]	48	[illegible]		11.54
[illegible]	[illegible]	50	48.0		22.67
[illegible]	[illegible]	50	[illegible]		60.88
[illegible]	[illegible]	50	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		69.08
[illegible]	[illegible]	[illegible]	[illegible]		12.41
[illegible]	[illegible]				
		TOTAL Excavation =			182.21

End Area At Station	Area
WHITE CLIFF	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	116.0
0+49.47	114.0
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
5+11.96	[illegible]

Dist.	Av. Area	Volume	Cubic Yards Excavation
[illegible]			
[illegible]			
[illegible]			
50	70.0		129.44
49.47	115		126.58
50.53	130.5		207.38
50	128.5		236.11
50	117.7		217.96
61.46	[illegible]		142.57
501	24.5		12.80
TOTAL Excavation =			1274.54 CY

Measured By	
Date	
Book No.	
Finaled By	

Eng. Est. $

	Steel	Square Yards Pavement	Int. Ct.	C & G	6" Dr.	Cubic Yards Excavation
Property						
City						
Totals						

11/12

FILMED FROM THE BEST AVAILABLE COPY.....

TATE
OCT 82

STATEMENT OF COST

FOR CONSTRUCTION OF: DALTON & OTHERS IN CHERRY CREEK HILLS 5TH ADDN.

PROJ. NO. 412.76245.81128.000.000.001

P.E. 173,076.40

WORKING DAYS ~ OK'

QUANTITIES PROP.	QUANTITIES CITY	QUANTITIES TOTAL	UNIT PRICE	CONSTRUCTION ITEM	COSTS 82% PROP.	COSTS 18% CITY	COSTS TOTAL
		4,777	9.32	SQ. YDS. 7" AC PVMT (5" BIT. BASE)			44,521.64
		806	3.32	SQ. YDS. 2 1/2" BITUMINOUS BASE			2,675.92
		190	20.00	SQ. YDS 7" V.G. (5" CONC - 2" BIT.)			3,800.00
		2,718	5.65	LIN. FT. COMB. CURB & GUTTER			15,356.70
		105	2.60	LIN. FT. INTEGRAL CURB			273.00
		3,069	0.90	CU. YDS EXCAVATION			2,762.10
		34	0.10	CU. YDS. COMP. FILL			3.40
		5,933	0.80	SQ. YDS. MANIPULATION			4,746.40
		36	72.00	TONS LIME			2,592.00
		544	1.00	SQ. YDS. PAVEMENT REMOVED			544.00
		81	4.65	LINEAR FT. HEDGE ROW REMOVED			376.65
		2	20.00	SMALL TREES REMOVED			40.00
		64	0.75	LIN. FT. FENCE REMOVED			48.00
		35	1.00	LIN. FT. SAWED JOINT			35.00
				SUBTOTAL	71,941.70	5833.11	77,774.81
				ENGINEERING & INSP.	14,393.28	1167.02	15,560.30
				ADMINISTRATION	1079.12	87.50	1166.62
				STREET NAME SIGNS	-0-	81.22	81.22
				PUBLICATION	87.72	-0-	87.72
				ABSTRACTING	8.00	-0-	8.00
6/03				CONSTRUCTION COST	87,509.82	7168.85	94,678.67
				TEMP. NOTE INT.	4643.81	376.53	5020.34
				TOTAL COST	$92,153.63	$7545.38	$99,699.01

12/12

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