EVANS ST.

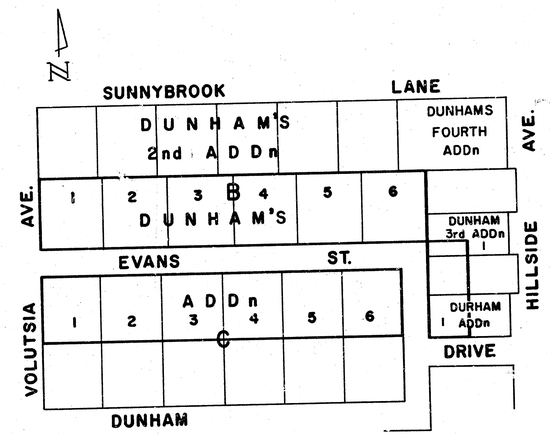
E.L. VOLUTSIA AVE. TO N.L. DUNHAM DR.

CITY OF WICHITA, KANSAS

R.W. BRUGGEMAN DIRECTOR OF ENGINEERING / CITY ENGINEER

DATE:

PROJ. NO. 472 76 245 81050 000 000 001

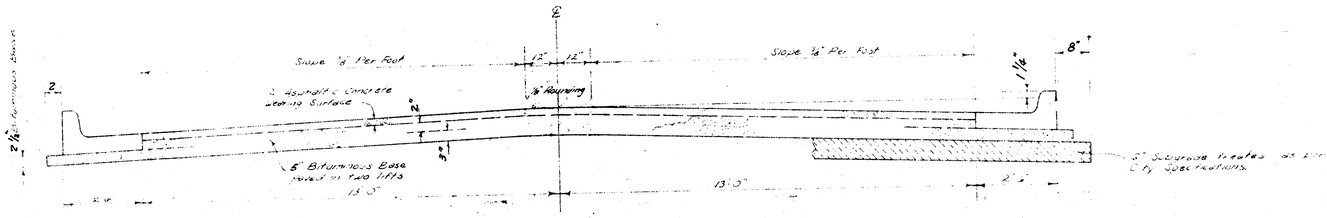


LOCATION MAP
SCALE: 1" = 150'

STEPHEN R. LADD
LICENSED
7714
PROFESSIONAL ENGINEER

1/7

1/9

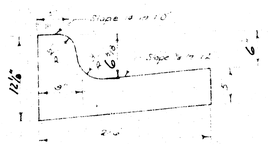


TYPICAL SECTION

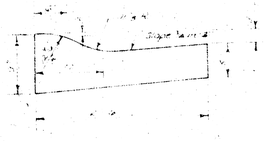
31' ASPHALTIC CONCRETE PAVEMENT WITH BITUMINOUS BASE

The A.C. pavement between the Comb. Curb & gutter shall be paid as Sq. Yds. 7" A.C. Pavement (5" Bituminous Base). The Bituminous Base under the Comb. Curb & gutter shall be paid as Sq. Yds 2½" Bituminous Base.

COMBINED CURB & GUTTER



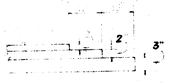
ROLL TYPE CURB & GUTTER



A TACK COAT OF EMULSIFIED ASPHALT (SS-1H) SHALL BE APPLIED AT AN APPROXIMATE RATE OF 0.05 GALLONS PER SQ YD BETWEEN LIFTS OF ASPHALTIC MATERIALS WHEN ORDERED BY THE ENGINEER. TACK COAT WILL NOT BE PAID FOR 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 SUCH THAT A JOINT WILL BE CONSTRUCTED ON THE PAVEMENT CENTERLINE IN THE TOP LIFT.

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 ASPHALTIC CONCRETE PAVEMENT.

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EVANS ST.

E.L. VOLUTSIA AVE. TO N.L. DUNHAM DR.

CITY OF WICHITA, KANSAS

PROJ. NO. 472 76 245 81050 000 000 00i

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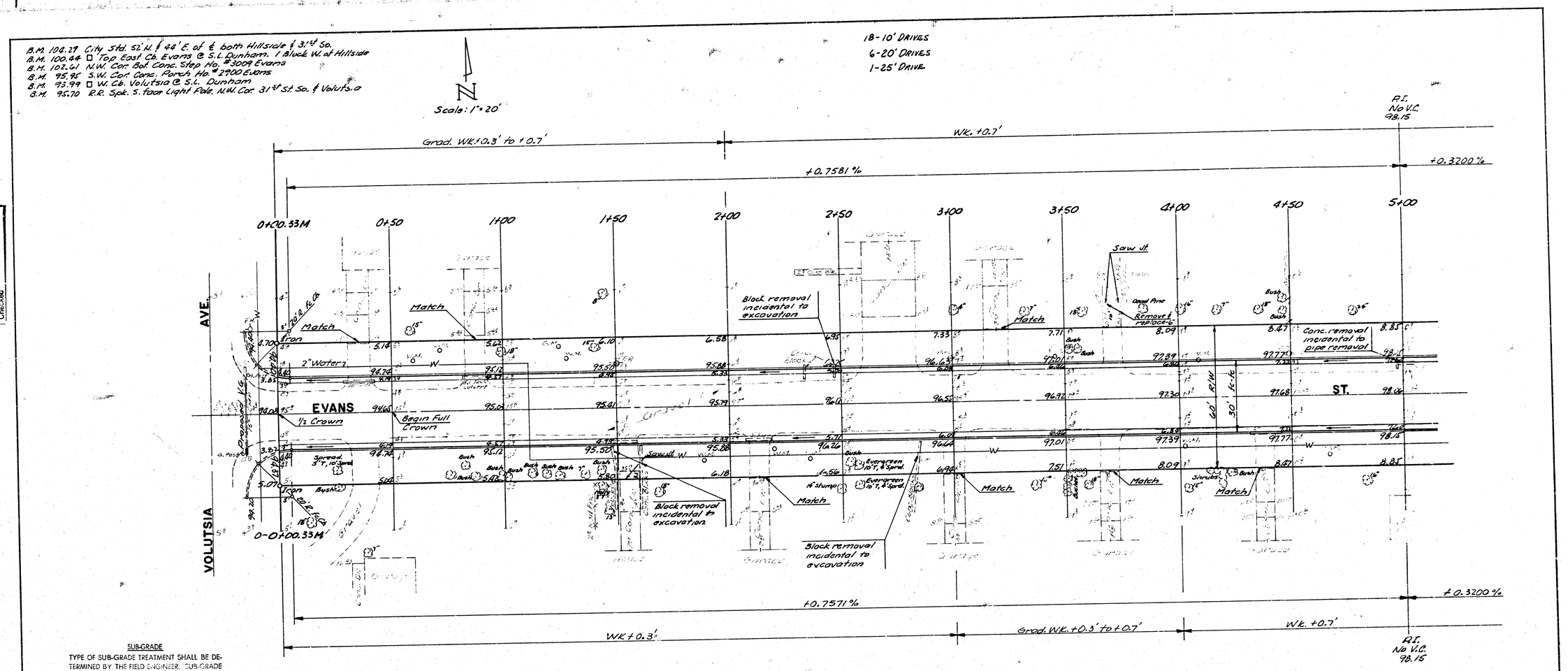

SUB-GRADE

TYPE OF SUB-GRADE TREATMENT SHALL BE DETERMINED BY THE FIELD ENGINEER. SUB-GRADE TREATMENT MAY CONSIST OF LIME TREATMENT, CEMENT TREATMENT, SUB-GRADE MODIFICATION, OR ANY COMBINATION OF THESE.

Total Earthwork

Excavation

4281.8 C.Y.

+10% 428.2

Total 4710.0 C.Y.

Total Manipulation = 3737.8 S.Y.

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EVANS ST.

E.L. VOLUTSIA AVE. TO N.L. DUNHAM DR.

PROJ. NO. 472 76 245 81050 000 000 001

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Survey D.L.K. M.G. OLK 443 M.G.
Plan DEC
Ex.
Checked

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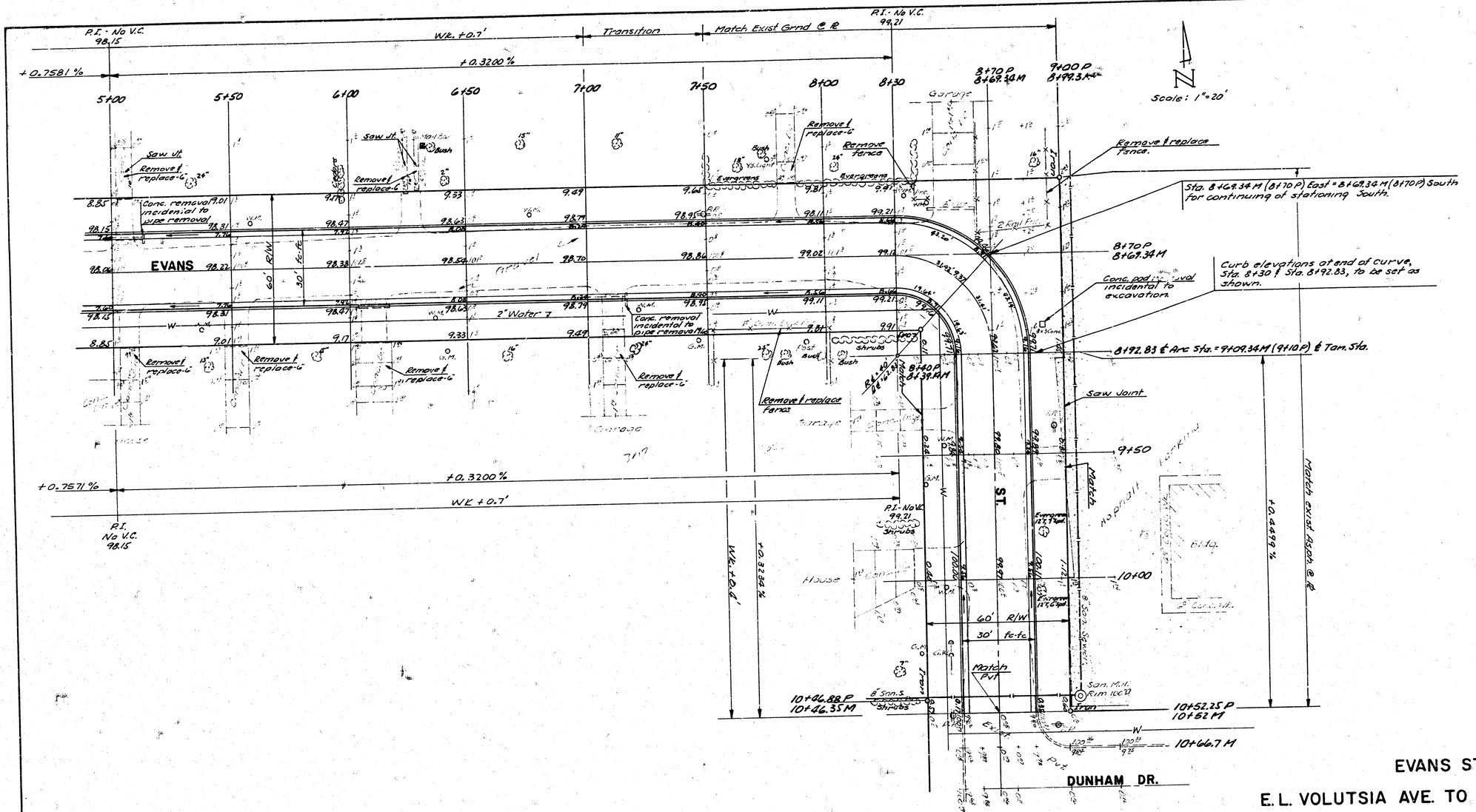

EVANS ST.

E. L. VOLUTSIA AVE. TO N.L. DUNHAM DR.

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Form KB 046

MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING 472-76-245-81050-000-000-001

STREET NAME EVANS ST. FROM E.C. VOLUSIA TO N.C. DURHAM CONTRACTOR MAJOR, INC. KIND OF PAVEMENT 7" AC PAVM'T. (5" BIT. BASE) (26-2-30)

Sta.	Width	Dist.	Av. Width	Area	Square Yards Pavement
SY 7" AC PAVM'T.					
0+00	26.0				
0+00 to 10+35	26.0	1034.7	26.0	26902.2	2989.1 SY
10+35	26.0				

End Area At Station	End Area Area	Dist.	Av. Area	Volume	Cubic Yards Excavation	
0+00	99.0					LF COMB CG & GTR
0+50	37.0	50	42.0	150.9	77.6	✓ 1055.0 + 1015.9 = 2070.9
1+00	12.5	50	37.8	990.0	73.7	✓
1+50	54.5	50	48.5	1911.0	33.3	✓ SY 2½ BIT. BASE
2+00	57.6	50	56.1	3350.0	103.9	✓ 2.67 × 2070.9 ÷ 9 = 614.4 SY
2+50	55.0	50	56.3	3350.0	121.3	✓
3+00	42.3	50	104.0	5200.0	192.6	✓ CY COMP. FILL
3+50	136.6	50	124.8	240.0	23.1	✓ (26902.2 + 3.17 × 2070.9) × 0.5 ÷ 27 = 619.3 CY
4+00	150.7	50	142.7	7135.0	260.1	✓
4+50	163.1	50	156.9	7845.0	290.6	✓
5+00	170.8	50	167.0	8350.0	309.6	✓
5+50	179.5	50	176.2	~~8810.0~~ 8813.0	~~326.4~~ 326.7	✓ 8-17-61
6+00	194.9	50	187.2	9360.0	346.2	✓ QUANT. PROP. @ LARGE CHG.
6+50	206.6	50	178.2	8910.0	330.2	✓ LF PIPE REM.
7+00	136.2	50	148.9	7445.0	275.7	✓ 110.0 LF AS PER FIELD CHECK
7+50	114.8	50	125.5	6275.0	232.4	✓
8+00	131.7	50	123.3	6165.0	228.3	✓
8+30	146.1	30	135.9	4077.0	151.0	✓ LF FENCE REM.
8+61.42 SR	132.2	31.42	126.2	4278.4	158.5	✓ 84.0 AS PER FIELD CHECK
8+92.83 AND 9+10	78.0	21.41	105.1	2251.2	122.3	✓
9+50	56.5	—	—	—	—	LF SAW JT.
10+00	42.8	40	67.3	2692.0	99.7	✓ 40.0 AS PER FIELD CHECK
10+52.25	24.2	50	52.2	2610.0	96.7	✓
		52.25	34.5	1801.6	66.8	✓

SF 6" DRIVE

12.4 x 12.3
12.3 x 13.5
6.5 x 9.5
12.3 x 10.0 ✓
1.0 x 3.0
10.0 x 7.9
8.2 x 10.0
21.0 x 13.0
.5 x 2.0 x 11.0 ✓
27.0 x 10.4
24.4 x 14.2
8.2 x 9.0
1866.55

SF 6" DRIVE - DIRECT ASSES

187.0
191.0
391.0
306.0
219.0
190.0
385.0
198.0
584.0
335.0
264.0
214.0
216.0
264.0
313.0
306.0
304.0
219.0
306.0
190.0 ...
5914.0

TOTAL 6" DRIVE 7780.6

SF DRIVE REM.

2 x 12.0 + 12.0
8.5 x 17.0
8.5 x 9.5
7.0 x 13.0
2 x (11.0 + 10.0)
8.0 x 9.0
8.5 x 21.0
10.4 x 27.0
26.4 x 16.0
11.5 x 9.0
1443.45 SF

SY ASPH. MAT REM.
20.3 x 6.0
157.8 17.5 SY

SY AC HOOKUP
24.0 x 5.0
.5 x 5.4 x 6.3
137.01 15.2 SY

CHANGE ORDER #1 $202.50
15.0 SY ASPH. HOOKUP @ 13.50/SY

	SY 2½" BIT BASE	Steel	Square Yards AC Pavement	Int. Cb.	C & G	Sep. Cb.	Sep. Grs.	6" Wk.	6" Dr.	Cubic Yards Excavation	SY Comp. Fill	LF Dr. Rem.	SY Asph. Mat Rem.	LF Pipe Rem.	LF Fence Rem.	LF Saw Jt.	CO #1	Insp.	Publ.	Abstr.	Appve.
Property	614.0		2989.0		2071.0				7781.0 ~~4231.3~~		620.0	1443.0	18.0	110.0	84.0	40.0					
City	—		—		—				—	4288.4	—	—	—	—	—	—	202.50				
Totals																					5/6
Unit Prices																					
Total Cost																					

Measured By GREENE
Date 8-82
Book No. 13-J
Finaled By HOGLUND

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OGLUND
3-82
A11

STATEMENT OF COST

PROJ. NO. 472-76-245-81050-000-000-001

FOR CONSTRUCTION OF: EVANS ST-E.L. VOLUTSIA AVE. TO N.L. DUNHAM DR.

WORK DAYS OK

P.E. $120,757.05

QUANTITIES PROP.	QUANTITIES CITY	QUANTITIES TOTAL	UNIT PRICE	CONSTRUCTION ITEM	COSTS PROP.	COSTS CITY	COSTS TOTAL
		2989.0	13.00	SQ.YD. 7" ASPH. CONC. PAVM'T. (5" BIT. BASE)			38,857.00
		614.0	4.50	SQ.YD. 2½" BITUMINOUS BASE			2,763.00
		2,071.0	5.75	LIN.FT. COMBINED CURB & GUTTER			11908.25
		4288.0	2.00	CU.YD. EXCAVATION			8576.00
		620.0	1.00	CU.YD. COMPACTED FILL			620.00
		1443.0	0.50	SQ.FT. DRIVE REMOVED			721.50
		18.0	1.00	SQ.YD ASPHALT MAT. REMOVED			18.00
		7781.0	2.65	SQ.FT. 6" DRIVE			20,619.65
		40.0	1.40	LIN.FT SAW JOINT			56.00
		110.0	3.00	LIN.FT. PIPE REMOVED			330.00
		84.0	1.50	LIN.FT. FENCE REMOVED			126.00
		LUMPSUM	202.50	CHANGE ORDER # 1 (15.0 SY ASPH. HOOKUP)			202.50
				SUB - TOTAL			84,797.90
				ENGINEERING AND INSP.			14,710.45
				ADMINISTRATION			1271.97
				PUBLICATION			73.30
				ABSTRACTING			4.00
				CONSTRUCTION COST			100,857.62
				TEMP. NOTE INT.			8699.37
6/93				TOTAL COST	#109,556.99	-0-	#109,556.99

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