

DEPARTMENTAL RESEARCH

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A HIGHWAY CONSTRUCTION
BID PRICE INDEX

by

W. C. Teinert

and

Emory G. Long

Research Project

TEXAS

HIGHWAY

DEPARTMENT



Ву

W. C. Teinert Emory G. Long

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I INTRODUCTION

The purchasing power of a dollar made available to the State for highway construction varies from time to time for any number of reasons. In order that those responsible for long range construction planning may have at their disposal a means of measuring this varying purchasing power at any time and projecting it to any future point in time, a cost index of highway construction has been prepared. This index equates the present cost of highway construction to the cost during the index base period or, in more simple terms, indicates the amount of construction one dollar would have purchased if spent during the base period rather than at the present or some past or future year.

In addition to this means of measuring purchasing power, a properly designed index may be of use in estimating individual projects. Knowing the present value of the index and the anticipated trend, the designer should be able to compute the index for the project estimate and arrive at a logical conclusion regarding the validity of the estimate.

This two fold purpose governed the design of the index.

II INDEX DESIGN

As designed, the index presented here may be defined as: "A weighted average of unit bids submitted by the successful bidders during a selected base period for various items representing substantially all of the construction operations provided for in a highway construction contract."

Index Items

The first step in the design of the index was to select the items to be included. In general terms, highway construction operations may be classified as grading, structures, surfacing and incidentals. Strictly speaking, an index should include

all of the contracted bid items of the base period and conversely, an ideal index would be one which contains only one item representing each of the four generalized construction operations. However, neither of these extremes would be practical since the former would involve several hundred individual bid items and the latter would not be truly representative.

The Bureau of Public Roads maintains a bid price index (See Figure 1) made up of weighted average prices for six items. This index is representative of work involved in grading, structures and surfacing and is apparently quite successful in detecting price trends in the entire nation. However, the absence of an item for flexible base and several other construction operations preclude an identical index for Texas.

The Highway Design Division, Bridge Division and Secondary Roads Division are currently using an index based on the year 1949 which includes all of the contract bid items for that base period. Current projects are compared to similar projects in 1949. However, some items included in this index are outdated since items such as continuously reinforced concrete pavement, upgraded flexible bases, cement stabilized bases and asphaltic concrete pavement were not used extensively in 1949.

The Construction Division's Cost Index as reported in 1953 (See Figure 2) includes eleven items which are a comprehensive representation of highway construction from 1949 through 1953. The items contained in this index were selected for tentative inclusion in the new index. During preparation, some changes were made in the minor index items.

Base Period

The selection of the base period for accumulating the average prices con-

stituted the next step in developing the index. The Bureau of Public Roads Index was originally based on the 1925-29 period but was updated and revised for the period 1957-59 in keeping with the effort of all Federal agencies to base any statistical data on this period. The index used by the Design Divisions is based on the year 1949 and the Construction Division Index is based on a five year period from 1949 through 1953; however, construction innovations and specification changes since that period might produce some fictitious variations in application of the index. The 1957-59 base period was selected in order that the index could be correlated with the BPR Index. Average prices were developed for that period and a possible index prepared. The results were somewhat disappointing in that only approximately 50 percent of the total cost of several projects selected at random were represented in the index. Also, this index appeared to indicate a much greater price rise for 1963 than was reflected by the indices used by the Department. This could be attributed to several factors but is believed to be primarily the result of adoption of the current standard specifications with possibly some influence from changes in design such as the advent of continuously reinforced concrete pavement and upgraded flexible base.

The base period was then moved forward to the years 1961-63. Several factors prompted selection of this period as the base. The 1961 specifications (the forerunner of the current standard specifications) were adopted and put into use early in this period and the bid history for both the 1961 and 1962 specifications was stored on the computer. Also, sufficient bid history had been accumulated on continuously reinforced concrete pavement, high-type flexible base and other relatively recent design innovations to assure reliable averages for these items. Projects governed by the 1951 specifications even though they were let in 1961 are not included in the index.

Statistical Derivations

Figure 3 indicates the composition of the index. The items are divided into four general categories: excavation, base, surfacing and structures with the latter three further separated by generalized pay items.

The area and State average prices for excavation include common and unclassified excavation only; however, in computing the relative weight on an individual project, such items as overhaul, borrow, sprinkling and rolling of embankment material should be included in the item weight.

The itemized breakdown of flexible base was deemed necessary to avoid misleading fluctuations of the index. If only one overall State average for flexible base was included as originally planned, one large project containing a substantial quantity of one of the more expensive bases would result in a fictitious rise in the index for that letting. Separate weighted averages for each flexible base item should counteract this and result in a more stable and accurate index. Average prices are included for various types of flexible base. For most of these items an average price for delivered flexible base is also shown. Since shell with sand admixture and shell with sand and caliche admixture are bid both delivered and with haul paid for separately, the average price includes the volume of shell divided into the sum of shell, sand, caliche and additional quarter mile haul. Therefore, the only prices shown for these items are on a delivered basis. Bid history indicates that cement stabilized base and flexible base used in District 21 are always bid on a delivered basis. A delivered price has not been included for caliche, bankrun gravel or foundation course since a delivered bid history for these items was not available. In the future if these items are bid on a delivered basis, an index price can be established.

All flexible base in the index was computed on a cubic yard basis using a conversion factor of 1.4 from ton to cubic yard for caliche, bankrun gravel, processed gravel, iron ore, crushed stone, foundation course and the delivered base used in District 21. The conversion factor from ton to cubic yard on shell with sand admixture and shell with sand and caliche admixture is 1.12.

The conversion factor from ton to cubic yard for cement stabilized base is 2.0. If cement stabilized base is measured by square yard, the conversion factor is derived from dividing 36 by the depth in inches of the cement stabilized base placed. (Figure 5 indicates the conversion factors for various items of the index.)

Surfacing was divided into four categories with a further breakdown to separate jointed reinforced and continuously reinforced concrete pavement. Aggregate and asphalt for surface treatments include all surfacing aggregates and asphalt for seal coats, one, two and three course surface treatments. The average price for asphaltic concrete pavement includes Hot Mix Asphaltic Concrete Pavement only. However, in calculating the weight of each item and relative weight, cold mix limestone rock asphalt pavement, hot mix-cold laid asphaltic concrete pavement and tack coat should be included. Concrete pavement was divided into two groups because of the price variation for a greater amount of reinforcing steel used in the continuously reinforced design. The average prices for concrete pavement were computed on a cubic yard basis. (See Figure 5 for conversion factors.)

The structural items originally included only reinforcing steel, structural steel and structural concrete. However, it was found that prestressed concrete beams constitutes a large percentage of structural items and was added

to the composition of the index. The item of 24 inch pipe was also added as an indicator item to reflect any price changes in areas of construction not directly related to the major items, although it does not constitute a substantial percentage of the index. In calculating the weight of the item and the relative weight for Pipe 24", all sizes of reinforced concrete and corrugated galvanized metal pipe should be included. The average prices for structural steel were developed from I-Beam Steel and Girder Steel omitting miscellaneous structural steel; however, miscellaneous steel should be used in arriving at the relative weights for structural steel.

The items of sprinkling and rolling were originally included in the index; however, they were deleted since they constituted a very minor percentage and the weighted averages obtained were not realistic.

The average prices indicated are derived by dividing the summation of the total contract cost for each item during the base period by the summation of the quantities for the period. In order to determine the weight each item should be given in the index the total contract cost of similar items of work should be added to the item cost, e.g. overhaul, borrow, etc. added to excavation; tack coat added to asphaltic concrete pavement; etc. as previously discussed. The relative weight for the four general categories is then determined from the total adjustment cost of each item and the total cost in the index. The relative weights computed in this manner should approximate the relative proportions of grading, structures, base and surfacing in an ordinary construction contract as shown in Figure 3. The weight of each item and relative weight shown in the composition of the index is based on construction during the three year base period; however, the weight of each item and relative weight should be calculated on each pro-

ject. To calculate price trends for a given period the weight of each item and relative weight should be adjusted according to construction for that period. (See Figure 8D)

Application

In computing the State index for a monthly letting, or any other period of time, the weighted average unit price for each of the index items is calculated as previously described for the index. The item index is then determined by dividing the average price by the index base period average. The weight of each item for those items constituting the excavation, base, surfacing and structures index is then multiplied by this item index and the summation of these products multiplied by the relative weight to arrive at an index factor percentage. Summation of the four index factor percentages results in the overall index.

Figure 4 illustrates the overall index for each month since 1950.

III AREA INDICES

As previously mentioned, an index which could be applied to individual projects could be of significant benefit to the designer in preparing the estimate for highway construction projects. Knowing the average cost of the project, judgment could then be used to determine probable increased or decreased cost due to conditions peculiar to that project. To develop an index suitable for application to individual projects, weighted average prices equivalent to those developed for the statewide index had to be determined for each area of the State having comparable conditions.

Four factors were selected to determine the groupings. Any one of these factors was considered sufficient justification to warrant a separate area grouping.

- 1. Usual Construction Practice
- 2. Climate
- 3. Geological Formation
- 4. Usual Type of Project

The first factor alone dictates that each of the various districts be separated since even adjacent districts often use different specification bid items.

Consideration of the second factor led to a further separation of the lower counties in the coastal area.

Consideration of the geological formation was on an extremely generalized basis. While the presence of large quantities of rock in certain counties was recognized, there was not sufficient bid history in some of the counties from which reliable weighted averages could be computed. There was also some indication that portions of a county should be grouped separately; however, this would not be a practical grouping for utilizing the computer history.

Consideration of the last factor dictated that the heavy metropolitan areas having expressway type construction under heavy traffic be separated from other counties in that district.

Figure 6 indicates the county groupings which resulted from this process. Forty-two separate groupings are indicated.

The index items which constitute the statewide index were extracted from the bid history for each separate area and weighted averages computed. This resulted in a separate index for each area which, when recombined, is identical in average prices, quantities, relative weights, etc. to the State index.

Figures 7A-7D indicate the weighted average prices for each index item. In several instances where prices are not shown, these areas either did not have a history for the particular bid item or did not have sufficient history to reflect a realistic weighted average. When this occurs, the State average

should be used in computing the index on an individual project until such time as sufficient bid history for this item is established.

Application to Individual Projects

Individual index forms have been prepared for each area for computation of the index for individual projects. Samples of these forms with typical project data inserted are shown in Figures 8A-8C. A form for each area with index list price is included in the Appendix.

Figure 8A indicates the procedure followed in computing the index for a typical grading, structures and surfacing project. The estimate price for each index item contained in the project is entered under "Estimated Cost" and divided by the index list price for the particular area to determine the "Item Index". Where more than one bid item is contained in the project for any index item, such as several types of aggregate for surface treatment, an approximate weighted average price should be determined for use in computing the index. Where more than one item is included for each type of work such as will usually be the case for base, surfacing and structures, the weight to be given each item must be determined. This weight may be an approximation or may be an exact calculation based on the total estimated cost of each of the items. In each case the total weight of each of the four general categories must equal 100 percent. For example Excavation is only one item so it equals 100 percent.

Under flexible base the sum of all base items shall equal 100 percent and the same pertains to the surfacing and structural categories.

The product of the item index and weight of each item is the "Item Index Factor".

These factors, when added, determine the composite item index for each type of construction.

The relative weights shown on figure 8A are those determined from the composition of the index; however, these should be adjusted to correspond with the project. The product of this weight and the composite item index determines the index factor percent which, when added, produces the project index.

Figure 8B and 8C show application of the index to projects having only base and surfacing and surfacing respectively. The procedure to be followed in computing the index is identical to that described above except for relative weight. These weights were adjusted to the actual proportions of the types of construction contemplated in the project.

The index for individual projects is not so critical that strict rules need to be established for its computation. Since one of the functions of the index is to aid the designer in estimating the project, considerable latitude may be exercised in arriving at the weight of each item, adjusted relative weights, etc. The most important factor determined is probably the item index since this figure represents the deviation of the estimated price from the weighted average of past bid history in that area. Judgment and experience can be used to determine if this deviation is justified by conditions peculiar to the project.

IV FUTURE MODIFICATIONS

From time to time it will become apparent that newly developed items should be added to the index. Such construction items as lightweight surfacing aggregates, asphalt stabilized base, etc. will no doubt need to be added to assure representation of a high percentage of the cost of individual projects. New items may be added to the statewide index or to the area indices at any time by converting the price of the new item back to the base period. However, it will be necessary to accumulate a sufficient price history on a new item to assure a realistic weighted average.

V FORMS AND FIGURES

THE HIGHWAY CONSTRUCTION BID PRICE INDEX COMPILED BY THE BUREAU OF PUBLIC ROADS

Item	Unit	Base quantity	Base unit price	Base dol- lar amount	Relative weight
Excavation	Cu, Yd.	Thousands 3,641,885		Thousands \$1,529,592	Percent 33.8
Surfacing: Portland cement concrete Bituminous concrete Subtotal, surfaces	sq. yd. ton	154,953 111,516		678,221 742,472 1,420,693	15.0 16.4 31.4
Structures: Reinforcing steel Structural steel Structural concrete Subtotal, structures	lb. lb. cu. yd.	2,206.879 2,581,462 14,583	•195	285,139 502,294 790,027 1,577,460	6.3 11.1 17.4 34.8
Total				4,527,745	100.0

Basic values and relative weights of the 1957-59 base index

CONSTRUCTION DIVISION

ORIGINAL COST INDEX

1949-1953 Base

Period____

	<u>Item</u>	<u>Unit</u>	Relative Index	<u>Weight</u>	Amount
			(Current Rate) (Base Rate)	(% of '49-'53) (Base)	
1. & 1A.	Roadway Excavation	Cu. Yd.		11.90	
	(Ord. Comp. & Dens. Cont.)				
2.	Sprinkling	M. G.		2.93	
3.	Rolling	Hour		3.02	
4. & 4A.	Flexible Base	Cu. Yd.		25.23	
	(Ord. Comp. & Dens. Cont.)				
5.	Asphalt	Gal.		6.75	
6.	Aggregate	Cu. Yd.		5.28	
7. & 7A.	Concrete Pavement	Cu. Yd.		10.68	
	(Jointed & Cont. Reinf.)				
8,9,10.	Bituminous Mixtures	Ton		10.78	
11.	Class "A" Concrete	Cu. Yd.		12.57	
12.	Reinforcing Steel	Lbs.	*************	5.13	Description of the last of the
13.	Structural Steel	Lbs.		5.73 100.00	
		Total			
		Index			

Item	Quantities	Av. Price	Total	Total Money Added to Item	Total to be Incl in Weight	Price to be Used for State Average	Weight of Each Item Percent	Relative Weight Percent
1. EXCAVATION	130,452,447.	\$.43	\$ 56,269,859.	\$ 26,109,913. TOTAL EXCAVATION	\$ 82,379,772. 82,379,772.	\$.43	100.	18.
2. BASE								
(a) Caliche (232) Delivered	8,465,917.	1.32	11,216,867.	3,544,559. 	14,761,426.	1.32	13.5	
(b) Shell with Sd. Adm. (234)(Delivered)	2,149,176	3 . 64	7,814,898.		7,814,898.	3.64	6.	
(c) Bank Run Gr. (236)	710,632.	1.01	715,452.	428,080.	1,143,532.	1.01	1.	
(d) Processed Gr. (238) Delivered	2,579,320. 346,982.	1.19 2.43	3,066,773. 843,519.	1,271,182.	4,337,955. 843,519.	1.19 2.43	4. •5	
(e) Iron Ore (240) Delivered	2,735,675. 534,579.	•97 2• 9 0	2,644,305. 1,547,868.	2,174,749.	4,819,054. 1,547,868.	•97 2•90	4. 1.	
(f) Crushed Stone (242) Delivered	10,329,450. 9,207,741.	1.45 2.94	15,023,120. 27,089,725.	4,049,303.	19,072,423. 27,089,725.	1.45 2.94	17. 24.	
(g) Fnd Crse (246)	11,254,187.	1.06	11,880,692.	4,507,447.	16,338,139.	1.06	14.	
(h) Cem Stab Base	806,498.	10.29	8,301,508.		8,301,508.	10.29	12.	
(i) Shell with Sand & Cal (Ty E) Delivered	414,258.	2.74	1,134,377.		1,134,377.	2.74	1.	
(j) Delivered Base Dist. 21	1,084,453.	2.52	2,735,435.		2,735,435.	2.52	2.	
Average All Base	50,798,814.	2.17	94,594,177.	15,395,682.	109,989,859.	2.17	100.	
				TOTAL BASE	109,989,859.			25.
3. SURFACING								
(a) Aggr for Surf Treat	3,124,870.	6.19	19,332,410.		19,332,410.	6.19	14.	
(b) Asph for Surf Treat	93,861,760.	•15	13,763,071.		13,763,071.	.15	10.	
(c) ACP	5,527,743.	5.98	33,069,603.	4,289,401.	37,359,004.	5.98	27.	
(d) Conc Pav (1) Jtd Reinf	1,001,814.	19•33	19,363,216.	624,125.	19,987,341.	19.33	15.	
(2) Contin Reinf	2,113,793.	22.03	46,557,254	573,441.	47,130,695.	22.03	34.	
Var. Contraction Total Inches				TOTAL SURFACING	137,572,521.		100.	31.
4. STRUCTURES								
(a) Cl A Conc	1,140,812.	46.63	53,197,117.		53,197,117.	46.63	46.	
(b) Reinf Stl	229,119,655.	.10	23,680,603.		23,680,603.	.10	20.	
(c) Str Stl	121,455,365.	.15	18,258,900.		18,258,900.	.15	16.	L
(d) Prestr Conc Beams	791,132.	14.31	11,322,269.		11,322,269.	14.31	10.	
(e) Pipe 24"	392,695.	4.84	1,899,710.	7,377,316.	9,277,026.	4.84	8.	
				TOTAL STRUCTURES	115,735,915.		100.	26.
	ĺ			TOTAL ALL ITEMS	445,678,063.			100.

COMPOSITION OF INDEX

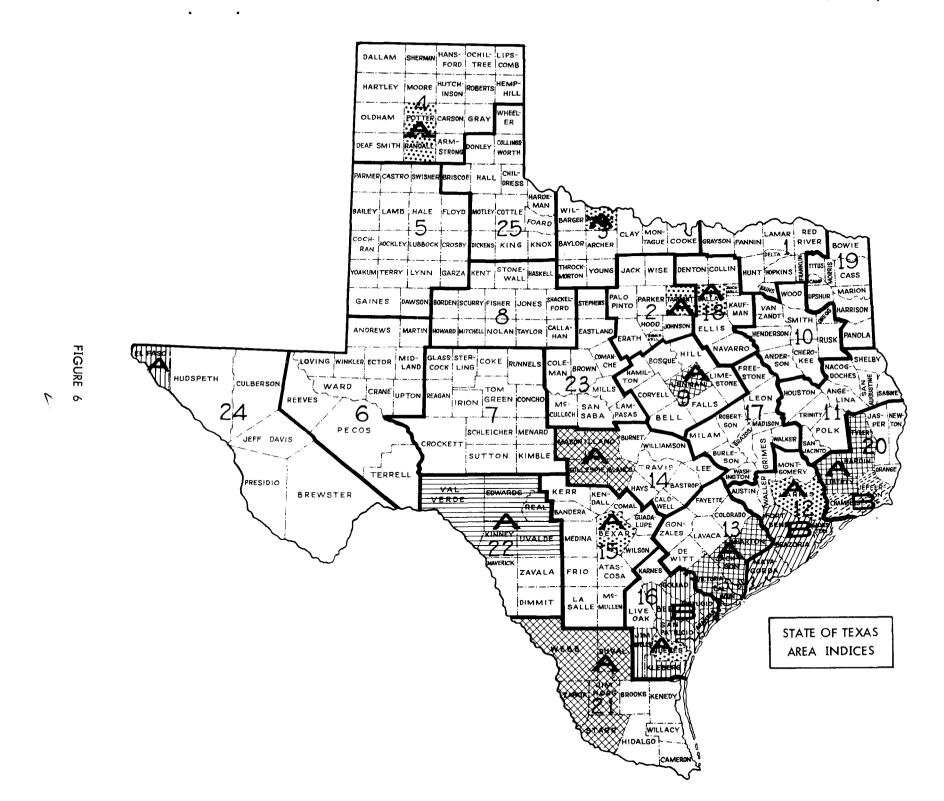
FIGURE

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CONVERSION FACTORS

	of Base ed in Each Item	Conversion Factor From Ton to CY
a.	Caliche(232)	1.40
ъ.	Shell with Sand Admix(234)&(Type D)	1.12
c.	Bank Run Gravel(236)	1.40
đ.	Processed Gravel(238)&(Type B)	1.40
e.	Iron Ore(240)&(Type C)	1.40
f.	Crushed Stone(242)&(Type A)	1.40
g.	Foundation Course (246)	1.40
h.	Cement Stabilized Base	2.00
i.	Shell with Sand & Caliche Admix(Type E)	1.12
j.	Delivered Base used in Dist. 21	1.40

St	ncrete Pavement and Cement abilized Base pth SY	Conversion Factor From SY to CY
	Inch	6.0
7 8	11	5.143 4.5
9	11	4•7 4•0
10	11	3.6
11	11	3.273
12	11	3.0



ITEM NO. 1

EXCAVATION (Common & Unclassified) CUBIC YARDS STATE AVERAGE \$.43

Area	Average	Area	Average
1	\$.34	14A	\$.52
2	.50	15	.44
2A	.50	15A	.40
3	. 36	16	•33
3A	.40	16A	.42
4	.40	16в	.48
ЦA	•45	17	•37
5	•39	18	.36
6	. 66	18A	.63
7	.58	19	•33
8	.43	20	- 14 14
9	.48	20A	•55
9A	.51	20B	.80
10	.31	21	.30
11	•35	21A	.32
12	•37	22	•37
12A	.78	22A	•77
12B	.58	23	.46
13	•39	24	.46
13A	.61	24A	•33
14	• † †	25	.30

ITEM NO 2

FLEXIBLE BASE

CUBIC YARDS

Haul Not Included

	CALICHE	SHELL WITH SAND ADM	BANK RUN GRAVEL	PROCESSED GRAVEL	IRON ORE	CRUSHED STONE	FOUNDATION COURSE	CEMENT STAB BASE	SHELL WITH SD. & CAL(TY E)	DELIVERED BASE(DIST 21)
State	\$ 1.32		\$ 1.01	\$ 1.19	\$.97	\$ 1.45	3 1.06			
	\$ 1.52		₩ 1.01	\$ 1.19	\$.97					
2			1.18	1.06		1.57 1.49	1.35 1.36			
2 A			•90	•74		1.63	•91			
3A 4	1.38			1.34			1.53 1.41			
4A				1.34			1.40			
5 6 7	1.38		1.25			1.80	1,27 1,26			
7 8	1.47		<u> </u>	•90		1.41 1.42	.65 .83			
9 9A				1.52		1.54 1.85	•95 •97			
10	1.34			.95	1,07	1.69	1.44			
10 11 12					•93	1.94	1.05			
12A 12B					 			ļ		
13			1.48	1.16	1.25		1.11			
14			•56			1.54	1.28			
15 15	1.42		.85			1.28	•97 •81			
13 13A 14 14A 15 15A 16					<u> </u>	1.15 1.01	•67 1•09			
16A	1.10 1.36						1.09 1.18			
17			.78	1.5	•79	1.85	.91 1.35			
17 18 18A 19	<u> </u>		1.22	1.48		1.66 2.38	1.00			
19 20			•95		.86 .92	1,60				
20A 20B	 				.92 1.20		•93			
21	1.18									
22	.74					1.17	•58 1•27			
22A 23	1.29			.95		1.27	.60			
21 21A 22 22A 23 24 24A	1.06			•99	 	1.06	.88			
	·									
25	1.05		ļ	1.09		1.19	1.01			
25	1.05			1.09	DM	1.19 LIVERED AV				
25 State		\$ 3.64				LIVERED AV		\$10.29	\$ 2.74	\$ 2.52
State Average		\$ 3.64		\$ 2.43	\$ 2.90	1.19 LIVERED AV.	STAGE	\$10.29	\$ 2.74	§ 2.52
State Average		\$ 3.64		\$ 2.43		\$2.94 3.98 2.28	STAGE	\$10.29	\$ 2.74	\$ 2.52
State Average		\$ 3.64				\$2.94 3.98	STAGE	\$10.29	\$ 2.74	\$ 2.52
State Average 1 2 2A 3 3A 4		\$ 3.64		\$ 2.43		\$2.94 3.98 2.28 2.14	STAGE	\$10.29	\$ 2.74	\$ 2.52
25 State Average 1 2 2A 3 3A 4 4A		\$ 3.64		\$ 2.43		\$2.94 3.98 2.28 2.14	STAGE	\$10,29	\$ 2.74	\$ 2.52
25 State Average 1 2 2A 3 3A 4 4A 5 6		\$ 3.64		\$ 2.43		\$2.94 3.98 2.28 2.14	erage	\$10.29	\$ 2.74	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8		\$ 3.64		\$ 2.43		\$2.94 3.98 2.28 2.14	erage	\$10.29	\$ 2.74	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8		\$ 3.64		\$ 2.43		\$2.94 \$2.94 3.98 2.28 2.14 3.45	erage	\$10.29	\$ 2.74	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9 9 11		\$ 3.64		\$ 2.43	\$ 2.90	\$2.94 \$2.94 3.98 2.28 2.14 3.45	erage		\$ 2.74	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9 A 10 11				\$ 2.43	\$ 2.90	\$2.94 \$2.94 2.98 2.28 2.14 3.45	erage		\$ 2.74	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9 A 10 11		\$ 3.64 3.54 3.66		\$ 2.43	\$ 2.90	\$2.94 \$2.94 2.98 2.28 2.14 3.45	erage	\$10.29 7.50 10.41 10.89		\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9 A 10 11				\$ 2.43	\$ 2.90	\$2.94 \$2.94 3.98 2.28 2.14 3.45	erage		3.51	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 7 8 9 9 10 11 12 12A 12B 13 13A 14 14		3.54		\$ 2.43	\$ 2.90	\$2.94 \$2.94 3.98 2.28 2.14 3.45	erage			\$ 2.52
25 State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12A 12B 13 13A 14 14A 15		3.54		\$ 2.43	\$ 2.90	\$2.94 \$2.94 3.98 2.28 2.14 3.45	erage			\$ 2.52
25 State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12A 12B 13 13A 14 14A 15		3.54		\$ 2.43	\$ 2.90	\$2.94 \$2.94 3.98 2.28 2.14 3.45	erage		3.51	\$ 2.52
25 State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12A 12B 13 13A 14 14A 15		3.54		\$ 2.43	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 5.35	erage		3.51	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12A 13A 14A 15B 13A 14A 15B 15A 16B 17 18		3.54		\$ 2.43	\$ 2.90	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.91 2.45	erage		3.51	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9 A 10 11 12 12A 12B 13 13A 14 14A 15 15A 16 16B 17 17 18 18 18A 19		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.91 2.24 2.03 2.45	erage		3.51	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 4A 5 6 7 8 9 9A 10 11 12 12A 12B 13A 14 14 15 15A 16 16B 17 18 18 19 20 20A		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.91 2.45	erage		3.51	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12B 13 13A 14A 155 16A 16B 17 18 18A 19 20 20A 20B		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.91 2.45	erage		3.51	
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12B 13 13A 14A 155 16A 16B 17 18 18A 19 20 20A 20B		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.91 2.45	erage		3.51	\$ 2.52
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12B 13 13A 14A 155 16A 16B 17 18 18A 19 20 20A 20B		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.91 2.03 2.45 3.87 3.87 3.62	erage		3.51	
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12A 12B 13A 14A 14A 15 16 16B 17 18 18A 19 20 20A 20B 21 21A 22A 23 23 21 21A		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 3.98 2.28 2.14 3.45 2.91 2.91 2.45 2.45	erage		3.51	
State Average 1 2 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12B 13 13A 14A 14A 155 15A 16 16B 17 18 18A 19 20 20A 20B		3.54 3.66 3.91		\$ 2.43 1.75 2.12 2.10 2.39	\$ 2.90 2.64 3.51 4.48	\$2.94 \$2.94 \$2.94 3.45 2.14 3.45 2.91 2.91 2.91 2.35 2.45 2.35 2.45	erage		3.51	

1

ITEM NO.3

SURFACING

				CONCRETE	PAVEMENT
	ASPHALT Gal.	AGGREGATE C.Y.	ACP Ton	JTD. REINF. C.Y.	CONTIN. REINF.
State Average	\$. 15	\$ 6.19	\$ 5.98	\$ 19.33	\$ 22.03
1. 22 2A 3 3A 4 4A 5 6 7 8 9 9A 10 11 12 12A 12B 13 13A 14 14A 15 15A 16 16B 17 18 18A 19 20 20A 20B 21 22A 23	.15 .17 .15 .15 .15 .15 .15 .15 .15 .15 .14 .14 .14 .14 .15 .15 .15 .15 .15 .15 .15 .15 .15 .15	70016155615200177944816189184163254926453 767566655555677788866455476666776879665555	6 5 6 5 6 6 6 7 8 6 5 5 5 7 6 5 6 6 6 6 6 5 5 4 4 6 6 5 5 6 7 6 0 7 8 6 5 5 5 5 7 6 5 6 6 6 6 5 5 4 4 6 6 5 5 6 7 6 0 7 8 6 5 5 5 6 6 6 6 6 5 5 4 4 6 6 5 5 6 7 6 0 7 8 6 5 5 5 6 6 6 6 6 5 5 4 4 6 6 5 5 6 7 6 0 7 8 6 5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	17.42 14.47 16.13 17.54 19.62 17.71 19.23 22.08 22.02 18.85 21.82 17.04 17.32 20.77 21.60 22.77	21.50 19.71 21.50 21.50 25.42 20.62 20.49 21.67 24.71 19.27 17.36 21.62 20.57 23.38 25.56 24.17
24 24A 25	.16 .16 .15	4.89 5.30 5.90	4.66 5.03 5.16		20. 16

ITEM NO. 4

STRUCTURES

State	CLASS A CONCRETE C.Y.	REINFORCING STEEL Lb.	STRUCTURAL STEEL Lb.	PRESTRESSED CONC. BEAMS L.F.	PIPE 24" L.F.
Average	\$ 46.63	\$.10	\$.15	\$ 14.31	\$ 4.84
1 2 3 3 4 4 5 6 7 8 9 9 10 11 12 12 13 14 14 15 16 16 16 16 16 18 19 20 20 21 22 21 24 25 25	43.97 975 96.66 96.66 96.66 975 96.66 975 96.66 975 96.66 975 96.66 975 96.66 975 975 975 975 975 975 975 975	.10 .11 .10 .10 .12 .11 .11 .12 .11 .10 .11 .10 .11 .11 .10 .11 .11 .10 .11 .11	.15 .15 .15 .15 .15 .17 .17 .17 .17 .17 .17 .17 .17 .17 .17	14.95 13.98 14.58 14.91 - 16.50 17.57 15.83 13.83 14.00 13.83 14.00 13.83 14.03 14.25 12.93 15.82 14.14 15.64 19.36 12.62 20.43 15.27 17.15 15.02	11457432362710316298094613250914325933427313 44444445655554545545444444565555555555

Item	Est. Cost	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Compos i te Item Index	Relative We ig ht Percent	Index Factor Percent
Excavation	.49	.50	. 98	100	. 98			
EXCAVATION	-					. 98	18.	.176
Base								-
(a) Caliche								-
Del i vered								
								+
(b) Shell with Sand Admix	 							
(c) Bank Run Gravel								
Delivered								
DellAeled								
(d) Processed Gravel								
Delivered		2.12						
(e) Iron Ore								
Delivered					ļ			
					<u> </u>			
(f) Crushed Stone	2.34	2.14	1.09	100	1.09			
Delivered	2.54	2.17	1.09	100	1.09			
(g) Fnd Crse					<u> </u>			
Delivered								
(h) Cem Stab Base (Shell)								
	<u> </u>							
(i) Shell : ith Sand & Cal (Ty E)	ļ							
(1)	-				ļ			
(j) Delivered Base (Dist. 21)	+							
	<u> </u>				<u> </u>	1.09	25.	. 272
Surfacing	0.00	7 31	1 00		1.5		ļ	
(a) Aggr for Surf Treat (b) Asph for Surf Treat	8.00	7.31	1.09	14	. 153		 	
(c) ASPA for Suri freat	6.40	6.57	. 91	27	. 262			
(d) Conc Pavement	1 5.45	T-0.4		<u> </u>	1		 	
(1) Jtd Peinf	† -							
(2) Contin Reinf	22.47	21,50	1.04	49	. 509			
		I			I	1.02	31.	.316
Structures								
(a) Cl A Conc	50.00	45.62	1.10	56	. 616			
(b) Reinf Stl	.10	.10	1.00	2.0	.20		 	
(c) Str Stl	.15	.15	1.00	16	. 16		 	
(d) Prestr Conc Beams	-	14.58 4.15	.39	8	. 079		 	
(e) Pipe 24"	4.10	H-4-15	1.55	-	+ .019			+
		<u> </u>	L	I	1	1.05	26.	. 273

Control:
Project: I 820-4(73)441, etc.
Highway: Int. 820
County: Tarrant

Tab No. 2A Counties Tarrant Index 1.04

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight <u>Percent</u>	Index Factor Percent
Excavation		∙3 9						
Base		<u> </u>						
(a) Caliche	1.30	1.38	. 942	100	.942			
Delivered								
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								
(2)								
(d) Processed Gravel Delivered	 	 -						
Delivered								
(e) Iron Ore								
Delivered	ļ	 						
(f) Crushed Stone		 						
Delivered								
(g) Fnd Crse		1.27						<u> </u>
Delivered		ļ			ļ			-
(h) Cem Stab Base (Shell)								
(i) Shell : ith Sand & Cal (Ty E)					ļ			
(j) Delivered Base (Dist. 21)		 						
(.) Delivered base (Disc. 21)	 					.942	75	.707
Surfacing	<u> </u>							+ . , , ,
(a) Aggr for Surf Treat	6.25	5.86	1.07	55	. 589			
(b) Asph for Surf Treat	.16	.15	1.07	45	. 482			
(c) ACP (d) Conc Pavement	 	7-01			 		· · · · · · · · · · · · · · · · · · ·	
(1) Jtd Feinf		1						
(2) Contin Peinf								
(2) 002022 10222	 	+				1.07	2.5	. 268
Structures								
(a) Cl A Conc		55.06	ļ					
(b) Reinf Stl	 	.11	 	 	 			
(c) Str Stl (d) Prestr Conc Beems	 	4.73	 	 	 		 	 -
(e) Pipe 24"	 	+++13-	 	 	 		 	
(0) 1120 0.	+			 				
	_1		1	L	1		1	

Control:
Project: S. 125 (2)
Highway:
County: Yoakum

Tab No. 5
Counties: All Counties in District 5

Index

. <u>98</u>

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Rela tiv e We ig ht Percent	Index Factor Percent
Excavation		.31						
Theavacton								
Base								
(a) Caliche		1.34						
Delivered								+
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel		•95						
Del <u>i</u> vered		2.10						
/ >		7.07						
(e) Iron Ore		1.07						
Delivered		-			-			+
(f) Crushed Stone		1.69						
Delivered								
(g) Fnd Crse	l	1.44						
Delivered								
(h) Cem Stab Base (Shell)		-						
(H) Cem Stab Base (BREIT)		 	1		 			+
(i) Shell with Sand & Cal (Ty E)								
(j) Delivered Base (Dist. 21)				····				
Surfacing								
(a) Aggr for Surf Treat	7.00	7.71	907	7	.063			
(b) Asph for Surf Treat	.16	.15	1.07	3	.032			
(c) ACP (d) Conc Pavement	7.47	7.27	1.03	90	.918			
(1) Jtd Reinf	-				 			
(2) Contin Reinf	 	21.67						
/S) concin term	-	21.01			 	1.01	100	1.01
Structures	 	+			+	1.01	100	1.01
(a) Cl A Conc		45.01	<u> </u>					
(b) Reinf Stl		.10						
(c) Str Stl		.14						
(d) Prestr Conc Beams	<u> </u>	15.00						
(e) Pipe 24"	l	4.03					1	

Control: 191-2-25, Etc.
Project: C 191-2-25, Etc.
Highway:
County: Cherokee

Tab No. 10 Counties: All Counties in District 10

Index

1.01

	Est.	Index L i st	Item	Wt of Each Item	Item Index	Composite Item	Relative Weight	Index Factor Percent
Item	Cost	Price	Index	(Percent)	Factor	Index	Percent	rercen
		.43		~				
Excavation	.487	•45	1.13	100%	1.13	1.12	12	.136
						1.13		
Base		1.32	1.02	1-7-3	.213			+
(a) Caliche	1.63	7.76	1.23	17.3	• 613			1
Delivered								<u> </u>
(b) Shell with Sand Admix		3.64						
O BICIT WINI DOMA (SAMI)								
(c) Bank Run Gravel	. 95	1.01	. 94	1	.001			
Delivered								
(d) Processed Gravel		1.19						
Delivered	_=	2.43	ļI					
,					_			
(e) Iron Ore	.97	.97	1.00	5	. 005	- 		
Delivered	2.40	2.90	.83	5,2	.043			+
(f) Crushed Stone	1.46	1.45	1.01	13.7	. 138			
Delivered	2.71	2.94	.92	54.6	. 502			
Dellycica	90111		 		1			
(g) Fnd Crse	1.38	1.06	1.30	8.2	. 107			
Delivered	_							
(h) Cem Stab Base (Shell)	13.44	10,29	1.31	.4	. 005			
(1) Shell with Sand & Cal (Ty E)		2.74						
(i) Shell : ith Sand & Cal (Ty E)		2.14			<u> </u>			
(j) Delivered Base (Dist. 21)		2.52			 			
() Delivered base (Disc. 21)		2.72		1.5 - 07				
Cumpo of me				100%		1.014	30	.30
Surfacing (a) Aggr for Surf Treat	6.36	6.19	1.03	<u> </u>	0/2			
(b) Asph for Surf Treat	16	.15	1.03	<u>6</u> 5	.062			
(c) ACP	6.17	5.98	1.03	34	.350		}	
(d) Conc Pavement		7.30						
(1) Jtd Reinf	17.67	19.33	. 91	5	.046			
(2) Contin Reinf	20.14	22.03	.91	50	.455			
				100%		. 967	33	. 31
Structures								
(s) Cl A Conc	49.00	46.63		54	. 567			
(b) Reinf Stl	.108		1.08	21	. 227		<u> </u>	
(c) Str Stl	. 15	.15	1.00	12	. 120			
(d) Prestr Conc Besms	14.07	14.31 4.84	. 98	4	. 039		 	+
(e) Pipe 24"	5.01	4.04	1.03	9 / 0007	. 093	1544	 	+
	<u> </u>	l		100%		1.046	25	. 26
TE AVERAGE PRICES FOR USE IN CA								1.02

VI APPENDIX

Second S		Est.	Index List	Item	Wt of Each Item	Item Index	Composite Item	Relative Weight	Index Factor Percen
State Stat	Item		Price		(Percent)	Factor	Index	Percent	Percen
			1						
Caliche Delivered Delive	Excavation		.34						
Scaling									
Delivered Deli	Base		 				_ 		+
(c) Sank Run Gravel Delivered (d) Processed Gravel Delivered (e) Iron Ore Telivered (f) Crushed Stone Delivered (g) Find Grse Delivered (h) Cem Stab Base (Shell) (i) Shell with Sand & Cal (Ty E) (j) Delivered Base (Dist. 21) Surfacing Sank Run Gravel Delivered 7.70 Surfacing Sank Run Gravel Delivered 7.70 (j) Delivered (j) July Being Trest Delivered (k) Strothers Delivered Being Tenses Delivered Tenses			 				 		
(c) Sank Run Gravel Delivered (d) Processed Gravel Delivered (e) Iron Ore Delivered (f) Crushed Stone Delivered (g) Find Crse Delivered (h) Cem Stab Base (Shell) (i) Shell:ith Sand & Cal (Ty E) (j) Delivered Base (Dist. 21) Surfacing Sanger for Surf Treet Sanger for Surf Treet Delivered (j) Ager for Surf Treet (j) Tub Feinf (DellAeled		1					1	
Delivered Deli	b) Shell with Sand Admix								
Delivered			 						_{
(d) Processed Gravel Delivered (e) Iron Ore Delivered (f) Crushed Stone Delivered (g) Fnd Crse Delivered (h) Cem Stab Base (Shell) (i) Shell :ith Sand & Cal (Ty E) (ii) Delivered Base (Dist. 21) Surfacing (s) Aggr for Surf Trest (s) Aggr for Surf Trest (c) ASF (d) Conc Pevement (l) Jtd Fein! (l) Jtd Fein! (l) Jtd Fein! (l) Jtd Fein! (l) Conc Trest (l) Jtd Fein!	(c) Bank Run Gravel		+						
Delivered	Delivered		 					 	
Delivered	(d) Processed Gravel		 			 	-	 	+
(e) Iron Ore	Delivered		1			l	1	<u> </u>	
Delivered 1.57									
(f) Crashed Stone									
Delivered 3.98	Delivered		 					ļ	
Delivered 3.98	(2)								
(g) Fnd Crse			1.5(<u> </u>	+
Delivered (h) Cem Stab Base (Shell) (1) Shell : ith Sand & Cal (Ty E) (4) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ASP (d) Conc Pavement (l) Jtd Feinf (l) Jtd Feinf (l) Structures (e) Cl & Conc (b) Feinf Stl (c) Str Stl (d) Prestr Conc Besms (e) Str Stl (d) Prestr Conc Besms (e) Gl & Conc Besms (f) Cl & Conc Besms (h) Str Stl (h) Feinf Stl (h) Feinf Stl (h) Festr Conc Besms (h) Feinf (h) Feinf (h) Feinf Stl (h) Feinf Stl (h) Feinf Stl (h) Feinf Stl (h) Festr Conc Besms (h) Feinf Stl (h) Feinf Stl (h) Feinf Stl (h) Festr Conc Besms (h) Feinf Stl	perivered		3.90	-		 		 	
Delivered (h) Cem Stab Base (Shell) (1) Shell : ith Sand & Cal (Ty E) (4) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ASP (d) Conc Pavement (l) Jtd Feinf (l) Jtd Feinf (l) Structures (e) Cl & Conc (b) Feinf Stl (c) Str Stl (d) Prestr Conc Besms (e) Str Stl (d) Prestr Conc Besms (e) Gl & Conc Besms (f) Cl & Conc Besms (h) Str Stl (h) Feinf Stl (h) Feinf Stl (h) Festr Conc Besms (h) Feinf (h) Feinf (h) Feinf Stl (h) Feinf Stl (h) Feinf Stl (h) Feinf Stl (h) Festr Conc Besms (h) Feinf Stl (h) Feinf Stl (h) Feinf Stl (h) Festr Conc Besms (h) Feinf Stl	(g) Fnd Crse	l	1.35			 		 	
(4) Shell :ith Sand & Cal (Ty E) (5) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACF (d) Conc Pevement (1) Jtd Feinf (2) Contin Feinf (3) C1 & Conc (5) C1 & Conc (6) Einf St1 (7) C2 (8) C3 Structures (9) C1 & Conc (10) C1 & Conc (11) C2 (12) C3 C3 C4 (13) C4 (14) C5 (15) C5 (16) C6 (17) C6 (17) C7 (17) C7 (18)	Delivered		1			 		 	-
(4) Shell :ith Sand & Cal (Ty E) (5) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACF (d) Conc Pevement (1) Jtd Feinf (2) Contin Feinf (3) C1 & Conc (5) C1 & Conc (6) Einf St1 (7) C2 (8) C3 Structures (9) C1 & Conc (10) C1 & Conc (11) C2 (12) C3 C3 C4 (13) C4 (14) C5 (15) C5 (16) C6 (17) C6 (17) C7 (17) C7 (18)									
(i) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat 7.70 (b) Asph for Surf Treat .15 (c) ACF 6.44 (d) Conc Pavement	(h) Cem Stab Base (Shell)		-			 		ļ	_
(i) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat 7.70 (b) Asph for Surf Treat .15 (c) ACF 6.44 (d) Conc Pavement	(4) Shall -4+h Sand & Col (Tr F)	 				 		 	+
Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACP (d) Conc Pavement (l) Jtd Feinf (2) Contin Feinf (l) Conc Pavement (l) Structures (l) Conc Pavement (l) Feinf (l) Conc Pavement (l) Jtd Feinf (l)	(1) Shell .Ith Same & Cal (1) E/		1			 	+	 	
Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACP (d) Conc Pavement (l) Jtd Feinf (2) Contin Feinf (l) Conc Pavement (l) Structures (l) Conc Pavement (l) Feinf (l) Conc Pavement (l) Jtd Feinf (l)	(i) Delivered Base (Dist. 21)	 	 			<u> </u>			
(a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACF (d) Conc Fevement (l) Jtd Feinf (2) Contin Feinf Structures (e) C1 A Conc (b) Reinf St1 (c) Str St1 (d) Prestr Conc Besms (14.95)	· · · · · · · · · · · · · · · · · · ·							 	
(a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACF (d) Conc Pavement (1) Jtd Feinf (2) Contin Feinf 21.50 Structures (a) C1 A Conc (b) Reinf Stl (c) Str Stl (d) Prestr Conc Beams (14.95)	Surfacing	 				 		 	
(c) ACF (d) Conc Pavement (1) Jtd Peinf (2) Contin Peinf 21.50 Structures (a) C1 A Conc (b) Reinf St1 (c) Str St1 (d) Prestr Conc Besms 14.95	(a) Aggr for Surf Treat		7.70			 			
(d) Conc Pavement (1) Jtd Peinf (2) Contin Peinf 21.50 Structures (a) C1 A Conc (b) Reinf Stl (c) Str Stl (d) Prestr Conc Beams 14.95	(b) Asph for Surf Treat								
(1) Jtd Feinf 17.42 (2) Contin Feinf 21.50 (3) Structures (5) C1 A Conc (43.97) (b) Feinf St1 (.10 (c) Str St1 (.15 (d) Prestr Conc Besms 14.95		<u> </u>	6.44			 			
(2) Contin Feinf 21.50 Structures (a) C1 A Conc 43.97 (b) Reinf Stl .10 (c) Str Stl .15 (d) Prestr Conc Besms 14.95		 				 	- 		
Structures		 				 			+
(s) C1 A Conc 43.97 (b) Reinf St1 .10 (c) Str St1 .15 (d) Prestr Conc Beams 14.95	(2) CONCIN LCIM	 	- EL-JU			 		 	+
(s) C1 A Conc 43.97 (b) Reinf St1 .10 (c) Str St1 .15 (d) Prestr Conc Beams 14.95	Structures		 			 		 	+
(c) Str Stl .15 (d) Prestr Conc Besms 14.95	(a) Cl A Conc		43.97						
(d) Prestr Conc Besms 14.95		ļ							
		 			ļ. <u>.</u>	 		 	
(e) ripe s+ 4.41		 		 	 	 		 	
	(e) ripe z+	+	4.41	ļ 	 	+			+
				<u></u>	l			<u> </u>	

Tab No. 1
Counties: All Counties in District 1

~1	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Item	COSC	11106	Index	(Terceno)	140 001			
Excavation		50						
								
Base								
(a) Caliche		 				 		
Delivered		+						
(b) Shell with Sand Admix								
(c) Bank Run Gravel		1.18						
Delivered								
(d) Processed Gravel		1.06						
Delivered		1.75					 	
(e) Iron Ore							ļ	+
Delivered		+				·	 	
Delivered	 					- 		_
(f) Crushed Stone		1.49						
Delivered		2.28						
	ļ	 					<u> </u>	
(g) Fnd Crse Delivered	 	1.36						
Delivered		+			 			-
(h) Cem Stab Base (Shell)								
							· · · · · · · · · · · · · · · · · · ·	
(i) Shell with Sand & Cal (Ty E)								
(j) Delivered Base (Dist. 21)	1							
Surfacing	ļ <u> </u>							
(a) Aggr for Surf Treat	 	6.30						
(b) Asph for Surf Treat	 	.15					 	+
(c) ACP		5.84						1
(d) Conc Pavement								
(1) Jtd Reinf	1							
(2) Contin Peinf	ļ	19.71			ļ		ļ	+
								_
Structures (s) Cl A Conc	 	48.95			 			
(b) Reinf Stl	 	40.95			 			+
(c) Str Stl	 	15						+
(d) Prestr Conc Beams		13.98						1
(e) Pipe 24"		4.64						

Tab No. 2
Counties: All Counties in District 2 except Tarrant

1	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Rela tiv e We ig ht Per <u>cent</u>	Index Factor Percent
Item	Cost	rice	Index	(Percent)	Fac tor	Index	10100	
Excavation		.50						
3ase	<u> </u>	 						
a) Caliche								
Delivered								
(b) Shell with Sand Admix								
() P) P () P ()		 						
(c) Bank Run Gravel	 	+						-
Delivered	 	 						
(d) Processed Gravel								
Del i vered		2.12						
(e) Iron Ore								
Delivered								
(f) Crushed Stone					<u> </u>			
Delivered	}	2.14						-
/ \ T. 2 C	 							
(g) Fnd Crse Delivered	 	+					 	
Delivered	 				 		 	 -
(h) Cem Stab Base (Shell)	 	+			 			
(H) Cell Bust base (birelly	 				+			
(i) Shell with Sand & Cal (Ty E)	†							
(j) Delivered Base (Dist. 21)								
Surfacing					<u> </u>			
(a) Aggr for Surf Treat		7.31						
(b) Asph for Surf Treat		.17						
(c) ACP	<u> </u>	6.57			 			
(d) Conc Pavement					ļ			
(1) Jtd Feinf	 							 -
(2) Contin Reinf		21.50			 	-		_
Structures					 		 	-
(a) Cl A Conc	 	45.62		 	 		 	
(b) Reinf Stl		10					 	
(c) Str Stl	1	15					1	
(d) Prestr Conc Beams	1	14.58						
(e) Pipe 24"	T	4.15						

Tab No. 2 A
Counties: Tarrant

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.36						
HACAY A CLOID								
Base								-
(a) Cal ic he		_						
Delivered	ļ	-						
(b) Shell with Sand Admix								
(c) Bank Run Gravel		.90						
Delivered								
(d) Processed Gravel		.74						
Del i vered		-		······				
, , , , , , , , , , , , , , , , , , ,		 						
(e) Iron Ore	 	 						
Delivered	 			·····	<u></u>			+
(f) Crushed Stone		1.63					 	+
Delivered	†	3.45						1
DCIIVCICA		- 						-
(g) Fnd Crse		.91						
Delivered		12-						
(h) Cem Stab Base (Shell)								
(i) Shell with Sand & Cal (Ty E)	 						 	
(j) Delivered Base (Dist. 21)	 							
(j) Delivered Base (Dist. 21)		+			<u> </u>		 	
							<u> </u>	
Surfacing Company	ļ	+		· · · · · · · · · · · · · · · · · · ·	<u> </u>		ļ	
(a) Aggr for Surf Treat (b) Asph for Surf Treat	+	5.26			 		 	+
(c) ASPN for Surf frest	+	14 -5-54			 			
(d) Conc Pavement	+	7-7-74			<u> </u>		 	
(1) Jtd Reinf	1	14.47					<u> </u>	
(2) Contin Reinf	1	1 1 2 2 1			1			
Structures	1							
(a) Cl A Conc		44.46						
(b) Reinf Stl		10						
(c) Str Stl		14					 	
(d) Prestr Conc Besms		14.26			 		 	
(e) Fipe 24"		4.37			 			
	1			<u> </u>	<u> </u>		<u> </u>	
					1	Index		

Tab No. 3
Counties: All Counties in District 3 except Wichita

Excavation Base (a) Caliche Delivered (b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel	Cost	Price .40	Index	(Percent)	Factor	Index	Percent	Factor Percent
Base (a) Caliche Delivered (b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel		.40						
(a) Caliche Delivered (b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel								
(a) Caliche Delivered (b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel								
Delivered (b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel								
(b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel								
(c) Bank Run Gravel Delivered (d) Processed Gravel								•
Delivered (d) Processed Gravel						1		ļ
Delivered (d) Processed Gravel								
(d) Processed Gravel								
Delivered								
(e) Iron Ore								
Delivered		<u> </u>						
(f) Crushed Stone		<u> </u>						
Delivered		1				_		-
		7 52		···				
(g) Fnd Crse		1.53			ļ- <u></u>	<u> </u>		
Delivered								
(h) Cemm Stab Base (Shell)								
(n) Cem Stab Base (SHELL)					 		<u> </u>	
(1) Shell with Sand & Cal (Ty E)		1			 			 -
(1) Dielitin bana a daz (1) b)								
(j) Delivered Base (Dist. 21)		 			 	_	 	
(ii) Berryered Base (Province)								
Surfacing								
(a) Aggr for Surf Treat		6.21			ļ			
(b) Asph for Surf Treat		.15			ļ			
(c) ACP		6.73			 			
(d) Conc Pavement	ļ						 	
(1) Jtd Peinf		16.13			 		<u> </u>	
(2) Contin Feinf		21.50			 	+	 	
Character and the control of the con	<u> </u>				 			
Structures (a) Cl A Conc		47.03			 			
(b) Reinf Stl		.10			 		 	+
(c) Str Stl	 	.15			 	 	 	+
(d) Prestr Conc Beems	 	14.91			 			
(e) Fipe 24	 	4.64			 		†	+
,c/ 1250 c.	 	7.04				1	†	
		نـــــــــــــــــــــــــــــــــــــ					<u> </u>	

Tab No. 3 A
Counties: Wichita

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.40		<u> </u>				
Base								
(a) Caliche		1.38						+
Delivered		1						
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								
		3 31			ļ			
(d) Processed Gravel	 	1.34				_		+
Del <u>i</u> vered		1				+		
(e) Iron Ore								
Delivered								
70	_	 			<u> </u>			
(f) Crushed Stone Delivered	 	 						
DeittAeter		1 1		···				
(g) Fnd Crse		1.41						
Delivered								
(a) a a a a a a a a a a a a a a a a a a	ļ	 						
(h) Cem Stab Base (Shell)	 	+						
(i) Shell with Sand & Cal (Ty E)								1
(j) Delivered Base (Dist. 21)								
								1
Surfacing (a) Aggr for Surf Treat	}	6.15			<u> </u>			
(a) Aggr for Surf Treat (b) Asph for Surf Treat	 	.15						
(c) ACP		6.93		· · · · · · · · · · · · · · · · · · ·				
(d) Conc Pavement								
(1) Jtd Reinf	ļ				<u> </u>			
(2) Contin Feinf	 	+		-	 			
Structures	+				 		-	+
(a) Cl A Conc	 	58.66				 	 	-
(b) Reinf Stl		.12						
(c) Str Stl		.15						
(d) Prestr Conc Beams	 	1, 03			_		 	+
(e) Pipe 24"	+	4.93			+		 	+
				L	1		<u> </u>	
					-	Index		

Tab No. 4
Counties: All Counties in District 4 except Randall and Potter

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.45						
Base	<u> </u>	+						
(a) Caliche								ļ
Delivered								
	ļ. <u></u>	 						
(b) Shell with Sand Admix	<u> </u>	+						
(c) Bank Run Gravel								
Delivered								
		1 3 31						
(d) Processed Gravel	 	1.34			 			
<u>Delivered</u>	 	+						+
(e) Iron Ore	 	+			 			
Delivered		1		· · · · · · · · · · · · · · · · · · ·				
(f) Crushed Stone								
Delivered	<u> </u>	+						
(g) Fnd Crse		1.40			 			+
Delivered	 	+			 			
Delivered	 	+			 		 	
(h) Cem Stab Base (Shell)								
(i) Shell : ith Sand & Cal (Ty E)	 				ļ			
(j) Delivered Base (Dist. 21)	 	- 			 			
(j) Delivered Base (Dist. 21)	 				 			
6810	ļ							
Surfacing (a) Aggr for Surf Treat	 	6.25			 		 	
(b) Asph for Surf Treat	 	.16			 		 -	
(c) ACP		6.88					<u> </u>	
(d) Conc Pavement								
(1) Jtd Feinf		17.54					ļ	
(2) Contin Reinf		25.52			-			
Structures	-				 		 	
(a) Cl A Conc	 	48.69			 		 	
(b) Reinf Stl	<u> </u>	.11						
(c) Str Stl		.15						
(d) Prestr Conc Beams		 _			_		↓	
(e) Fipe 24"	_	4.12					ļ	
			<u></u>		<u> </u>		<u></u>	
					Į	Index		

Tab No. 4 A
Counties: Potter and Randall

- .	Est.	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Item	Cost	Trice	Index	(rerdenc)	1.86.001	Index		
Excavation		.39						
Base		-						
(a) Cal ic he		1.38						
Delivered	ļ					_		
(b) Shell with Sand Admix								
(c) Bank Run Gravel		1						+
Delivered								
(d) Processed Gravel	 	1						+
Delivered Delivered								
/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>	 						
(e) Iron Ore Delivered	 	11						
(f) Crushed Stone								
Delivered	 							
(g) Fnd Crse	 	1.27						
Delivered								
(h) Cem Stab Base (Shell)								
(h) Cem Stab Base (Shell)	 -						<u> </u>	+
(i) Shell with Sand & Cal (Ty E)								
(j) Delivered Base (Dist. 21)								
O								
Surfacing (a) Aggr for Surf Treat		5.86				+		
(b) Asph for Surf Treat	1	.15			 	+	 	+
(c) ACP		7.01						
(d) Conc Payement		1			 			+
(1) Jtd Reinf	1							
(2) Contin Feinf	<u> </u>							
				···				
Structures		55.06						
(a) Cl A Conc (b) Reinf Stl	 	.11			+		 	+
(c) Str Stl	+	.15			 		<u> </u>	
(d) Prestr Conc Beems	+	• + - • +			 		 	
(e) Pipe 24"		4.73					<u> </u>	
<u>```</u>							T	

.

Tab No. 5
Counties: All Counties in District 5

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
1 cem	0000							
Excavation		.66						
Base		+						
(a) Caliche		7.44						
Delivered		 						
(b) Shell with Sand Admix								
(c) Bank Run Gravel		1.25	}			1		
Delivered								
(d) Processed Gravel		 				 	<u> </u>	
(d) Processed Gravel Delivered	 	}						
Delivered		+ †						†
(e) Iron Ore		1						
Delivered								
(f) Crushed Stone		1.80						
Delivered	<u> </u>	 					ļ	
	ļ	1 200			ļ			
(g) Fnd Crse	ļ	1.26			L		ļ	
Delivered	 	 					_	
(h) Cem Stab Base (Shell)	 	 			 		 	+
(H) COM BOOD DODE (DICTT)	 							
(i) Shell with Sand & Cal (Ty E)								1
	T.							
(j) Delivered Base (Dist. 21)								
Surfacing (a) Aggr for Surf Treat	-	+			<u> </u>		ļ	
	 	5.01	<u> </u>		 		 	-}
(b) Asph for Surf Treat (c) ACP	 	8.06					 	
(d) Conc Pavement	 	8-06 1			 		 	+
(1) Jtd Reinf	1	19.62			 		 	
(2) Contin Peinf	 	19.02					 	
(2) 000022 11002	 				 			
Structures	 						 	
(a) Cl A Conc		51.05						
(b) Reinf Stl		.12						
(c) Str Stl		.19						
(d) Prestr Conc Beams		16.50			1			
(e) Pipe 24"		5.56			<u> </u>			
-	1					1		

Tab No. 6
Counties: All Counties in District 6

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
		.58						
Excavation		+ • • • •						
Base		+						
(a) Caliche		1						
Delivered								
(b) Shell with Sand Admix								ļ
		 						
(c) Bank Run Gravel							<u> </u>	-
Delivered								
(d) Processed Gravel		- 			ļ			
Delivered		 			ļ			+
		- 						1
(e) Iron Ore	ļ							
Delivered		+			<u> </u>			
(f) Crushed Stone		1.42			 			-
Delivered		1.46			 			
Delivered		+						
(g) Fnd Crse	 	.65						
Delivered	† · · 	107						+
	<u> </u>	 						
(h) Cem Stab Base (Shell)								
(i) Shell :ith Sand & Cal (Ty E)	<u> </u>			·				
(j) Delivered Base (Dist. 21)								
•								
Surfacing								
(a) Aggr for Surf Treat		5.55						
(b) Asph for Surf Treat		15			<u></u>			
(c) ACP		6.02			 		<u> </u>	
(d) Conc Pavement	 -	_			 			
(1) Jtd Reinf	 				 		 	
(2) Contin Feinf					 			
Character and the control of the con	 				 			
Structures (s) C1 A Conc	+	48.41			 			
(b) Reinf Stl	+	.11			 			+
(c) Str Stl	 	15			<u> </u>	+		+
(d) Prestr Conc Beams	 				†	 	 	+
(e) Pipe 24	 	17.57			 		<u> </u>	
(0) + +F 0 - 1	 	7.76			1			
	ــــــــــــــــــــــــــــــــــــــ							

.

Tab No. 7
Counties: All Counties in District 7

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.43						
DACCO COLOR								
Base								
(a) Caliche		1.47			ļ			
Delivered						_		
(b) Shell with Sand Admix								
(c) Bank Run Gravel	<u> </u>	 				- 		+
Delivered								
Delivered		1						
(d) Processed Gravel		.90						
Del i vered								
(e) Iron Ore								
Delivered	ļ <u>.</u>	_						
70 6 1 2 6		 - , , 			ļ			
(f) Crushed Stone	<u> </u>	1.42						+
Delivered		2.91						+
(g) Fnd Crse		.83				- 		+
Delivered	 -	 			 			
Defivered	 -				 			+
(h) Cem Stab Base (Shell)								
(i) Shell with Sand & Cal (Ty E)	<u> </u>							
	<u> </u>			······································				
(j) Delivered Base (Dist. 21)								
							<u></u>	
Surfacing	 	 			<u> </u>		<u></u>	
(a) Aggr for Surf Treat (b) Asph for Surf Treat	 	5.12			+		<u> </u>	
(c) ACP	 				 			
(d) Conc Pavement	 				 		t	+
(1) Jtd Reinf								
(2) Contin Feinf								
Structures								
(a) Cl A Conc	 	45.97						
(b) Reinf Stl	 	.10			 			
(c) Str Stl		.14						
(d) Prestr Conc Besms	 	4.87			 		 	
(e) Pipe 24"	+	4.01			 		 	+
			L		<u> </u>			1
					İ	Index		

Tab No. 8
Counties: All Counties in District 8

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.48						
							 	+
Base (a) Caliche		+						
Delivered		1						
DOLLYCICA		1 1						
(b) Shell with Sand Admix								
(c) Bank Run Gravel		1			 			
Delivered		†		 				1
Delivered		1						
(d) Processed Gravel								
Del i vered								
(e) Iron Ore	<u> </u>	-						
Delivered		 						
(f) Crushed Stone		1.54						
Delivered		+ + + + + + + + + + + + + + + + + + + +			 			
DellAeled		 						
(g) Fnd Crse		.95						
Delivered				····	 			
(h) Cem Stab Base (Shell)								
(1) = G] G] /m]]	 				ļ			
(1) Shell with Sand & Cal (Ty E)	 			·····	 			 -
(j) Delivered Base (Dist. 21)	 				 			
(.) Delivered base (Disc. 21)					 			
C	<u> </u>							
Surfacing (a) Aggr for Surf Treat	 	5.90						
(b) Asph for Surf Treat	 	.13			 			
(c) ACP		5.89					<u> </u>	
(d) Conc Pavement		J. J. J.						
(1) Jtd Reinf								
(2) Contin Peinf		26.62						
Structures	ļ	1,2						
(a) C1 A Conc		48.72						
(b) Reinf Stl (c) Str Stl	 	.17			 			
(d) Prestr Conc Beams	 	15.91			+			+
(e) Pipe 24"	+	4.81			 			+
· ·	 	+-01		,				

Tab No. 9
Counties: All Counties in District 9 except McLennan

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.51						
		 						
Base		 						
(a) Caliche						- 		
Delivered		+						
(b) Shell with Sand Admix	 	1	+					
(b) Shell with Sand Admix		†			······································			
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel		1.52						
Delivered								
(e) Iron Ore			I					
Delivered		1						
	L							
(f) Crushed Stone		1.85						
Delivered	<u> </u>	 					<u> </u>	
	ļ	 			ļ			
(g) Fnd Crse	ļ	.97						
Delivered	.							
(1) 2 (1) 2 (2)	 	 						
(h) Cem Stab Base (Shell)	 	+						
(i) Shell ::ith Sand & Cal (Ty E)	 				 	- 		
(1) Shell with Sand & Cal (Ty E)	 	 					 	-
(j) Delivered Base (Dist. 21)					 	+		
(,) Delivered base (Dist. 21)	 						<u> </u>	
	<u> </u>						<u> </u>	
Surfacing		1						
(a) Aggr for Surf Treat	ļ	6.00						
(b) Asph for Surf Treat		14_			 		 	
(c) ACP					ļ			
(d) Conc Pavement (1) Jtd Peinf		17.71						
(1) Jtd Reinf (2) Contin Reinf		20.49			-		 	+
(2) Contin Reini	 	20.49			 			
Character and Ch							ļ	
Structures (a) Cl A Conc	+	46.07		·				
(b) Reinf Stl	+	.10			 			
(c) Str Stl	 	20			 		 	+
(d) Prestr Conc Beams	+	16.83			 		 	+
(e) Pipe 24	 	4.30			 		 	
, c/	+				 	+	 	+
	1	_1			I	ı	i .	1

Tab No. 9 A
Counties: McLennan

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation	COSC	-31	Index	(10100)				
likeavacion		1						
Base								
(a) Caliche		1.34						
Delivered								
(1) m 22 (1) 0 7 (1)	ļ							
(b) Shell with Sand Admix		 						
(c) Bank Run Gravel		1						
Delivered	<u> </u>	1						
Delivered	†							
(d) Processed Gravel		.95						
Delivered		2.10						
(e) Iron Ore		1.07						
Delivered					ļ			
/a\ a 1 3 a:	-	1.69						
(f) Crushed Stone	 	1.09			-			
Delivered	 							+
(g) Fnd Crse		1.44						
Delivered								+
					<u> </u>			
(h) Cem Stab Base (Shell)								
(i) Shell with Sand & Cal (Ty E)	<u> </u>					· ·		
	 							-
(j) Delivered Base (Dist. 21)					 			
Surfacing	 	7 7						
(a) Aggr for Surf Treat	_	7.71			ļ			
(b) Asph for Surf Treat (c) ASP	 	7.27	-		 			
(d) Conc Pavement	+	1-1-21			 -			
(1) Jtd Feinf	+	 		···				
(2) Contin Peinf		21.67					<u> </u>	
(2) 332					†			
Structures		1.			 			1
(a) Cl A Conc		45.01						
(b) Reinf Stl		.10						
(c) Str Stl	<u> </u>	.14						
(d) Prestr Conc Beams	 	15.00						
(e) Pipe 24"	1	4.03			L	l	ļ	

Tab No. 10
Counties: All Counties in District 10

Index

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		•35						
								<u> </u>
Base							<u> </u>	-
(s) Caliche								
Delivered		 					 	
(b) Shell with Sand Admix								
(c) Bank Run Gravel	ļ	1						
Delivered								
						· · · · · · · · · · · · · · · · · · ·		
(d) Processed Gravel	ļ	1			ļ			
Delivered	<u> </u>	↓				<u> </u>		
		1						<u> </u>
(e) Iron Ore		.93						
Delivered	 	+						
(f) Crushed Stone		1.94						
Delivered	 	5.35			 		 	
Dell'ictea	 	1			<u> </u>			
(g) Fnd Crse		1.03					 	
Delivered		1			1			
(h) Cem Stab Base (Shell)	<u> </u>						<u> </u>	
()	<u> </u>	 			<u> </u>			↓ _
(i) Shell : ith Sand & Cal (Ty E)	 	-{						
(j) Delivered Base (Dist. 21)					 -		`	
(i) Delivered Base (Dist. 21)	 							
. Surfacing	 	7 00			ļ		<u></u>	
(a) Aggr for Surf Treat (b) Asph for Surf Treat	 	7.87			 		 	
(c) ACP	 	6.58			 		 	
(d) Conc Pavement	 	 6.50 				 	 	
(1) Jtd Reinf	1	19.23					 	†
(2) Contin Peinf								
. Structures								1
(a) Cl A Conc		49.10						
(b) Reinf Stl		.11					 	1
(c) Str Stl	-	.17			 		-	
(d) Prestr Conc Besms	 	13.67		ļ	 			
(e) Pipe 24"	 	4.61			 		 	
				<u>L</u>	1		1	1
						Index		
				Trans No 11	_			
				Tab No. 11 Counties: Al	L Counting for	District 11		
				AL AL	Councies II	I DIDULTO II		_

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
1 tem	0080		Index	(10100110)				
Excavation		-37						+
Base								
(a) Caliche								
Delivered		↓ ↓						-
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel								
Delivered		2.89						
(e) Iron Ore								
Delivered		2.64						
(f) Crushed Stone		+						
Delivered					1			
(g) Fnd Crse								<u> </u>
Delivered								
(h) Cem Stab Base (Shell)		7.50						
(i) Shell with Sand & Cal (Ty E)					 			
(j) Delivered Base (Dist. 21)		 			 	-	<u> </u>	-
Surfacing								
(a) Aggr for Surf Treat	ļ	7.89 .16						
(b) Asph for Surf Treat		5.19						
(c) ACP (d) Conc Pavement	+	7.19			 		<u> </u>	_
(1) Jtd Reinf	 	 			 			
(2) Contin Reinf								
(2) CONCIN FEIDI		++						
Ctwotypes					 			
Structures	 	48.26	·	· · · · · · · · · · · · · · · · · · ·	 			
(a) Cl A Conc	+						 	
(b) Reinf Stl	 	-11			 			+
(c) Str Stl	 	18 15.83						
(d) Prestr Conc Besms	 	1 75.63			 			
(e) Fipe 24"	 	5.26						
	1	1		l	1	1	1	1

Tab No. 12
Counties: Austin, Waller and Montgomery

Item	Est. Cost	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
. Excavation		.78						<u> </u>
. Base								
(a) Caliche								
Delivered		ļ						
(b) Shell with Sand Admix		3.54						
(c) Bank Run Gravel		 		· · · · · · · · · · · · · · · · · · ·				<u> </u>
Delivered								
(d) Processed Gravel		 						
Delivered								
(e) Iron Ore	 	+						
Delivered		3.51						
								J
(f) Crushed Stone Delivered		 			 		 	
Delivered	}	1					 	+
(g) Fnd Crse		1			<u> </u>			1
Delivered								
(2)		1 1 1 1 1						
(h) Cem Stab Base (Shell)	 	10.41			 		 	+
(i) Shell :ith Sand & Cal (Ty E)			L					
(j) Delivered Base (Dist. 21)	<u> </u>							
. Surfacing	 	 		<u></u>	 		 	
(a) Aggr for Surf Treat		8.74						
(b) Asph for Surf Treat	ļ	6.71						
(c) ACP	 	6.71		ļ	ļ		ļ	
(d) Conc Pavement (1) Jtd Feinf	 	22.08	<u> </u>	ļ — — — — — — — — — — — — — — — — — — —	 		 	-}
(2) Contin Peinf	 	24.71						
. Structures		FACO						
(a) C1 A Conc	 	50.02		_	 		ļ	
(b) Reinf Stl (c) Str Stl	 	10	 	 	 		 	
(d) Prestr Conc Beams	 	.15 13.83	 	 	 		 	
(e) Pipe 24	 	6.22	 	 	†		1	
	—	1						
	1	<u> </u>	<u> </u>	<u> </u>				
						Index		

Tab No. 12 A
Counties: Harris

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Ite. Iruux Teator	Composite Item Index	Rela tiv e We ig ht Percent	Index Factor Percent
		.58]
Excavation		 • • • •						
Base								
(a) Caliche		 				_		
Delivered		 						1
(b) Shell with Sand Admix		3.66		·····				
(c) Bank Run Gravel								1
Delivered		 						
(d) Processed Gravel		1						
Delivered								
<u> </u>	 	 		_				
(e) Iron Ore Delivered	 	4.48						
Delivered	<u> </u>	1 4.40	-					
(f) Crushed Stone								
Delivered	 							
(g) Fnd Crse	 	 						-
Delivered	·	1		····	 			
(h) Cem Stab Base (Shell)		10.89						
(i) Shell with Sand & Cal (Ty E)	 			·····	 			
(1) Shell alth Same & Cal (1) b)		 						
(j) Delivered Base (Dist. 21)	<u> </u>							
Surfacing (a) Aggr for Surf Treat	 	8.04						
(b) Asph for Surf Treat	1				 			
(c) ACP		.16 6.04						
(d) Conc Pavement								
(1) Jtd Feinf	 -	22.02			<u> </u>			
(2) Contin Peinf	 	+			 		<u> </u>	
Structures	 	 			 		 	
(a) Cl A Cone	 	57.07			1			+
(b) Reinf Stl		.11						
(c) Str Stl		.20						
(d) Prestr Conc Beems		14.32			 			
(e) Fipe 24"	+	5.89			 	+		+
	<u> </u>				<u> </u>		<u>l</u>	

Tab No. 12 B
Counties: Brazoria, Ft. Bend, Galveston and Matagorda

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Rela tiv e We ight Percent	Index Factor Percent
Excavation		.39						
Base								
(a) Caliche		+						-
Delivered								
(b) Shell with Sand Admix								
(c) Bank Run Gravel		1.48						-
Delivered		 						
		† <u>-</u>						
(d) Processed Gravel								+
Del <u>i</u> vered								
								1
(e) Iron Ore		1.25						
Delivered		 						
(f) Crushed Stone		+						
Delivered		+						
DCILYCICA		 		······································				
(g) Fnd Crse		1.11	<u>-</u>					+
Delivered								
		 						
(h) Cem Stab Base (Shell)								
								
(i) Shell :ith Sand & Cal (Ty E)		 						
(j) Delivered Base (Dist. 21)		 						
(.1) Delivered Base (Dist. 21)		 						
Surfacing		I						-
(a) Aggr for Surf Treat (b) Asph for Surf Treat		6.88						
(c) ASPN for Surf Treat		6.56						
(d) Conc Pavement		1 0.50						
(1) Jtd Reinf		18.85				 		ļ
(2) Contin Reinf		19.27						
		1 -2 1	 +			-		
Structures		+						•
(a) Cl A Conc		44.15						
(b) Reinf Stl		.11			···			+
(c) Str Stl		.15						
(d) Prestr Conc Beams	ļ	14.00						
(e) Pipe 24"	<u> </u>	5.18						

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.61						
Base								
(a) Caliche								
Delivered								
(b) Shell with Sand Admix		3.91						
(c) Bank Run Gravel		1						
Delivered							-	
(d) Processed Gravel	 	1.16						
Delivered								
(e) Iron Ore Delivered	 				 			+
Delivered	 	+						
(f) Crushed Stone		1		<u> </u>				
Delivered								
() F 7 0	 	1.11					<u> </u>	· · · · · · · · · · · · · · · · · · ·
(g) Fnd Crse Delivered		1 - 1 - 1						
Delivered		1						+
(h) Cem Stab Base (Shell)								
(-)	 	1 = = 1						
(i) Shell : ith Sand & Cal (Ty E)	 	3.51					<u> </u>	
(j) Delivered Base (Dist. 21)								
Surfacing		7-5-						
(a) Aggr for Surf Treat (b) Asph for Surf Treat	 	6.51			 			
(c) ASP	 	6.12			 		 	
(d) Conc Pavement								
(1) Jtd Reinf		21.82						
(2) Contin Feinf								
Structures	 						-	
(a) Cl A Conc	<u> </u>	51.83						1
(b) Reinf Stl		.11						
(c) Str Stl	1	.21	-		↓			
(d) Prestr Conc Beams	 	13.00			 		 	
(e) Fipe 24"	+	5.80			 			
					1			
] .	Index		

Tab No. 13 A
Counties: Calhoun, Jackson, Victoria and Wharton

Item	Est.	Index List P _{rice}	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Rela tiv e We ig ht Percent	Index Factor Percent
Excavation		777						
Base								
(a) Caliche								+
Delivered		-				 		
(b) Shell with Sand Admix								
(c) Bank Run Gravel		.56						
Delivered								
(d) Processed Gravel		 						-
Delivered								
(e) Iron Ore Delivered		+						
Delivered	 					<u> </u>	T	
(f) Crushed Stone		1.54 2.24						
Delivered	 -	2.24						
(g) Fnd Crse	 	1.28						
Delivered								
(h) Cem Stab Base (Shell)								
(h) Cem Stab Base (Shell)	 	+			 		 	-
(i) Shell with Sand & Cal (Ty E)								
(2) 22 (2)		_						
(j) Delivered Base (Dist. 21)					<u> </u>		 	
Surfacing	 				 		 	
(a) Aggr for Surf Treat		4.86					<u> </u>	1
(b) Asph for Surf Treat	 	.15						
(c) ACF (d) Conc Pavement	 	5.13			 		 	
(1) Jtd Reinf	 				 			+
(2) Contin Peinf								
Structures (a) Cl A Conc	 	44.77			 	_		
(b) Reinf Stl		.10			 		 	
(c) Str Stl	1	.16						
(d) Prestr Conc Beams	 	12.83						
(e) Pipe 24"	 	4.69		}	 	- 	 	
				I	<u> </u>		<u> </u>	i

Tab No. 14
Counties: Williamson, Travis, Hays, Caldwell, Bastrop, Lee

•

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Ite. Iv.:x Tetor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.52			ļ			
Base								
(a) Caliche								
Delivered								
(b) Shell with Sand Admix								
(c) Bank Run Gravel								<u> </u>
Delivered								
(d) Processed Gravel		-						
Delivered		+						
Dellvered		1						
(e) Iron Ore								
Delivered								<u> </u>
70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1.47						
(f) Crushed Stone Delivered	 	- 				<u> </u>		
Delivered	<u> </u>	+						1
(g) Fnd Crse		.97						
Delivered								
7								
(h) Cem Stab Base (Shell)	 				 	- 		
(i) Shell : ith Sand & Cal (Ty E)	 				 			 -
(j) Delivered Base (Dist. 21)								
Surfacing								
(a) Aggr for Surf Treat		5.71						
(b) Asph for Surf Treat	├ ──	5.64						
(c) ACP (d) Conc Pavement	 	7.04			 			
(1) Jtd Reinf					· · · · · · · · · · · · · · · · · · ·			
(2) Contin Peinf								
Structures								
(a) Cl A Conc	 	51.11			 			
(b) Reinf Stl (c) Str Stl	 	.11			 			
(d) Prestr Conc Besms	+	12.37			 	- 		 -
(e) Pipe 24"	 	5.04			†			
<u></u>		1 1			T .]	
					'		<u> </u>	

Tab No. 14 A
Counties: Blanco, Burnet, Llano, Mason, Gillespie

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		. 44						
Base								
Base (a) Caliche	-	1.42						
Delivered								
30111010								
(b) Shell with Sand Admix								
								
(c) Bank Run Gravel		.85				CALL TO AND A STATE OF THE PARTY OF THE PART		
Delivered		ļ						
(d) Processed Gravel		 			 	The second secon		+
(d) Frocessed Gravel Delivered	<u> </u>	 						
Dellacter						a a a de la marina companya paga a como a a gaga de la mor a paga a gara de la marina del marina de la marina del marina de la marina del marina de la marina del marina del marina de la marina de la marina del	Maria de La questra de la Calmante de La que para de Calmanda (que per a que de calmando de Calmando de Calman	+
(e) Iron Ore	 						and the second s	
Delivered							Acceptance of the state of the	
And American Color for Street Color Street C						The second secon		
(f) Crushed Stone		1.28						
Delivered		2.03						
	ļ ———							
(g) Fnd Crse		.81			<u> </u>			
Delivered	 	-			ļ			
(h) Cem Stab Base (Shell)	 	+			 			+
(H) Gem Goad Dage (Briefly	 							
(i) Shell with Sand & Cal (Ty E)								
(j) Delivered Base (Dist. 21)								
·								
Surfacing	 	1						
(a) Aggr for Surf Treat		5.28						
(b) Asph for Surf Treat		14						
(e) AGP	 	4.87	ļ		<u> </u>			
(d) Conc Pavement	 			<u> </u>		The state of the s		
(1) Jtd Reinf		 		<u> </u>	A CONTRACTOR SERVICE S	Charles of Assertance Community of Contract Cont		
2 Contin Feinf	and the commence of the commen	The second second second	THE TRUMP OF THE PROPERTY OF T	The state of the s	gar anasanasan mananasan mananasan sa	same - 1955 bilance of an affirm transfer and the Peter transfer and the Commission of the Commission	The second secon	-
. The second of the second contract x is the second contract x and x is the second contract x and x is the second contract x is the second contract x in x is the second contract x in x is the second contract x in x in x in x in x in x is the second contract x in x i	. The contract of the contract	~ T	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	A STATE OF THE PARTY OF THE PAR	SA PARE ARCHAN MANAGEMENTONICS AFTER THE ARCHAIC SECTIONS	to and a reference account to the appearance of the second	AND THE PROPERTY OF SECURE AND PROPERTY OF THE	
re: C A Conc		46.75		<u> </u>	+	The state of the s		
To/ Reinf St1	1	11				The second of th		
Stonesures (e) 61 & Cone (b) Reinf Stl (c) Str Stl (d) Frestr Cone Beems	1	1 15				no orași nacerna, cas il can orași are raemena orași acerna esti a portului de la compositori della co		
(d) Frestr Conc Beoms		14.03	and the second s				No. Committee - Committee A Santonian and Administration	
(e) Fipe 24		14.03 14.66						
HER CONTROL OF THE CONTROL OF THE STATE OF T	a y programme and the second		THE COLUMN TWO IS NOT THE PARTY OF THE PARTY					
PROTESTION OF THE CONTROL OF THE CON	A STATE OF THE PARTY OF THE PAR	andro em antro em antro	Accessor of the second second	guide grant ann an Air	The second secon	estensia ^l estensia recum escantina	Assessed the second sec	
					I	ndex		

Tab No. 15
Counties: All Counties in District 15 except Bexar

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.40						ļ
								-
Base						 		
(a) Caliche Delivered								
Delivered		1						
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel	ļ <u>.</u>	 			ļ			
Delivered		 			 	 		
(e) Iron Ore	 				 			
Delivered		- †						
Dealvered		11						
(f) Crushed Stone		1.15						
Delivered		2.45						
	 				ļ			
(g) Fnd Crse Delivered	 				ļ			
Delivered	 		——— 		 			
(h) Cem Stab Base (Shell)		1			 			
(i) Shell with Sand & Cal (Ty E)	L							
	 							
(j) Delivered Base (Dist. 21)	 				ļ			
· · · · · · · · · · · · · · · · · · ·]						
Surfacing	ļ	<u>4.89</u>						
(a) Aggr for Surf Treat (b) Asph for Surf Treat	+	14			 			
(c) ACP	 	4.92			<u> </u>			
(d) Conc Pavement		1 - 3						1
(1) Jtd Reinf								
(2) Contin Peinf		17.36						
Structures		34.85			ļ			
(a) Cl A Conc (b) Reinf Stl	 	.09			 		 	
(c) Str Stl	 				 	+	 	
(d) Prestr Conc Beams	\dagger	14.25	<u> </u>					
(e) Pipe 24"	Ī	4.91						
	4							

Tab No. 15 A
Counties: Bexar

	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Item	Cost	Frice	Index	(rerdenc)	Fac 601	Index	1010	
Excavation	[.33	1					
Excavacion								<u> </u>
Base		 						ļ
(a) Caliche								
Delivered								
(b) Shell with Sand Admix		 				_		+
()		 						+
(c) Bank Run Gravel		+			 			
Delivered	 	1						
(d) Processed Gravel	 	 						
Delivered	 							
(e) Iron Ore								
Delivered								
	ļ	_						
(f) Crushed Stone		-			<u> </u>			
Delivered		1.01					ļ	
(g) Fnd Crse	+	-		<u> </u>				+
Delivered	+	 						
Delivered	 	+					 	+
(h) Cem Stab Base (Shell)		.67			 			
(i) Shell with Sand & Cal (Ty E)								
	 							
(j) Delivered Base (Dist. 21)	<u> </u>							
•	1							1
Surfacing					<u> </u>			
(a) Aggr for Surf Treat	 	7.01						
(b) Asph for Surf Treat	 	6.16						
(c) ACP (d) Conc Pavement	+	0.10			 		 	+
(1) Jtd Feinf	+				 		 	+
(2) Contin Peinf	+		 		 			+
(2) 000010 1 0101								
Structures	+				 			+
(a) Cl A Conc		47.48	<u> </u>					+
(b) Reinf Stl		.11						
(c) Str Stl		.17						
(d) Prestr Conc Beams	<u> </u>		ļ		<u> </u>			
(e) Pipe 24"		5.43					<u> </u>	_
	1	l l	}	\	1	1	1	1

Tab No. <u>16</u> Counties: <u>Karnes-Live Oak</u>

	Est.	Index List	Item	Wt of Each Item	Item Index	Composite Item	Relative Weight Percent	Index Factor Percen
Item	Cost	Price	Index	(Percent)	Factor	Index	Percent	1010011
		.42						
xcavation		.42						
		+				_		
ase a) Cal ic he		1.10	-					
Delivered		1						
Delivered		1						
b) Shell with Sand Admix								
c) Bank Run Gravel	1							<u> </u>
Delivered]							
		 						
d) Processed Gravel		 						-
Delivered	+	1					<u> </u>	+
7 7		}						_
e) Iron Ore Delivered	 	+						
Delivered	 	+						
f) Crushed Stone	 	+						
Delivered	 							
g) Fnd Crse		1.09						
Delivered								
	ļ							
h) Cem Stab Base (Shell)	-							
i) Shell with Sand & Cal (Ty E)	 	2.67					ļ <u>.</u>	
1) Shell with Sand & Cal (Ty E)	+	2.67		· · · · · · · · · · · · · · · · · · ·	 			
j) Delivered Base (Dist. 21)	 	+			-			
.// Delivered base (Disc. 21)	 	+					 	
urfacing	 							
a) Aggr for Surf Treat	 	6.88					 	
b) Asph for Surf Treat	+	14					 	
c) ACP	1	6.27						
d) Conc Pavement								
(1) Jtd Reinf								
(2) Contin Reinf								
tructures								
e) Cl A Conc		48.23						
b) Reinf Stl		.10			 			
c) Str Stl		+-,			 		ļ <u></u>	
d) Prestr Conc Beams	+	12.93			 		 	+
e) Fipe 24"	+	5.42			 			
	Ì	1				1	1	

Tab No. 16 A
Counties: Nueces

Item	Est.	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Composite Item Index	Felstive Weight Percent	Index Factor Percent
		.48						
Excavation								
Base		1.36						+
(a) Caliche Delivered		1.30						
(b) Shell with Sand Admix			-					
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel								
Delivered								+
(e) Iron Ore		-						
Delivered								
(f) Crushed Stone				····				
Delivered								
	-	1 2 30						
(g) Fnd Crse Delivered	 	1.18						
(h) Cem Stab Base (Shell)	 						 	
(i) Shell with Sand & Cal (Ty E)		2.84						
(i) Delivered Base (Dist. 21)								
(j) Delivered Base (Dist. 21)	 	+						
Surfacing	 							
(a) Aggr for Surf Treat		6.24						
(b) Asph for Surf Treat (c) ACP	 	5.77	 		 		 	
(d) Conc Pavement								7
(1) Jtd Peinf (2) Contin Peinf	 		 		 			
(2) COMOTH LCIM								
Structures		E1 30						
(a) Cl A Conc (b) Reinf Stl	 	51.32	 	 	 		 	
(c) Str Stl		.14						
(d) Prestr Conc Besms (e) Pipe 24"	 	15.37 4.85			+			
(0) 1100	1	7.09	 					
					1	Index		<u> </u>

Tab No. 16 B Counties: Aransas, Bee, Goliad, Jim Wells, Kleberg, Refugio, San Patricio

Item	Est. Cost	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.37						
Base								
(a) Caliche								
Delivered								
(b) Shell with Sand Admix								
(c) Bank Run Gravel		.78	-					
Delivered								
(d) Processed Gravel	_	-						
Delivered Delivered								
		70						
(e) Iron Ore Delivered		.79						
Delivered		2.19						
(f) Crushed Stone		1.85						
Delivered		3.87						
(g) Fnd Crse		.91						
Delivered	 	+ · · · · · · · · · · · · · · · · · · ·						
(h) Cem Stab Base (Shell)	<u> </u>							
(i) Shell with Sand & Cal (Ty E)	 							
(j) Delivered Base (Dist. 21)								
Surfacing (a) Aggr for Surf Treat	 	- 6 57			<u> </u>			
(b) Asph for Surf Treat	†	6.51 .14			1			
(c) ACP		5.99						
(d) Conc Pavement	<u> </u>				ļ			
(1) Jtd Feinf	 	1 01 (0)						_
(2) Contin Feinf	 	21.62	-					
Structures	 				 		 	
(a) Cl A Conc		48.83						
(b) Reinf Stl	ļ	-11						
(c) Str Stl (d) Prestr Conc Beams	 	.17 13.82			<u> </u>			
(d) Prestr Conc Besms (e) Pipe 24"	 	4.50		 	 			
(c) TIPS CH	 	4.20				- 	†	+
	1		L	<u></u> _	<u> </u>		<u> </u>	

Tab No. 17
Counties: All Counties in District 17

Item	Est. Cost	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.36						
Base		 						
(a) Caliche								
Delivered		 						
(b) Shell with Sand Admix								
(c) Bank Run Gravel		1.22						
Delivered								
(d) Processed Gravel		1.48						+
Delivered		2.45						
		 						
(e) Iron Ore Delivered	<u> </u>	+						
Delivered								
(f) Crushed Stone		1.66						
Delivered	 	3.22						1
(g) Fnd Crse	1	1.35						-
Delivered								
(h) Cem Stab Base (Shell)	 							
(h) Cem Stab Base (Shell)	 	+			 		 	
(i) Shell with Sand & Cal (Ty E)								
	ļ							
(j) Delivered Base (Dist. 21)	 				 	1		
. Surfacing	 				 		 	
(a) Aggr for Surf Treat		7.16						
(b) Asph for Surf Treat	 	.15			 			
(c) ACP (d) Conc Pavement	 	6.26			 		 	
(1) Jtd Reinf	+	17.04			 			
(2) Contin Feinf	<u> </u>	20.57						
. Structures (a) Cl A Conc	 	43.26	ļ		-		<u> </u>	
(b) Reinf Stl	 	.10			 		 	+
(c) Str Stl		14						
(d) Prestr Conc Beams		13.02			1			
(e) Pipe 24"		4.29					 	
	1		L	J	L		<u> </u>	

Tab No. 18
Counties: All Counties in District 18 except Dallas

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
		.63						
Excavation		•••						
Base								
(a) Caliche		-						
Delivered		 						 -
(b) Shell with Sand Admix								
(c) Bank Run Gravel		†						
Delivered		1						
(d) Processed Gravel								
Del i vered								
	<u> </u>							 -
(e) Iron Ore Delivered		+						
Delivered						 	<u> </u>	+
(f) Crushed Stone		2 38						
Delivered		2.38						
(g) Fnd Crse		4						
Delivered								
(h) Cem Stab Base (Shell)					 		 	
(II) Cem Stan Base (SHell)	 				 	 	<u> </u>	
(i) Shell with Sand & Cal (Ty E)					 		 	
(j) Delivered Base (Dist. 21)								
	1]						
Surfac i ng								
(a) Aggr for Surf Treat		7.13						
(b) Asph for Surf Treat	 	.16 7 .2 8						
(c) ACP (d) Conc Pavement	 	1.20			 		 	
(1) Jtd Reinf	 	17 32			 		 	
(2) Contin Peinf	 	17.32 23.38					 	
Structures								
(a) Cl A Conc	ļ	48.55						
(b) Reinf Stl (c) Str Stl	-	.10			 		 	
(c) Str Stl (d) Prestr Conc Besms	+	.15			 	- 	 	+
(e) Pipe 24"	+	4.31			 		 	+
(0) 1250 21	 	7.7.			 		 	
	<u> </u>			l	<u> </u>			

Tab No. 18 A
Counties: Dallas

T+ am	Est. Cost _	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Felative Weight Percent	Index Factor Percent
Item	0030		Index	(10100110)				
Excavation		•33						
Base		+						
Base		 						
Delivered								
		1						
(b) Shell with Sand Admix		 				-		
(c) Bank Run Gravel		•95						
Delivered								
(d) Processed Gravel		 						
Del <u>i</u> vered		+						
(e) Iron Ore		•86			 			
Delivered		2.32						
(f) Crushed Stone Delivered	 	3.62			ļ			+
Delivered		1002			 	 		
(g) Fnd Crse					<u> </u>	†		-
Delivered								
(2)					ļ			
(h) Cem Stab Base (Shell)	 	-			 	-		
(i) Shell with Sand & Cal (Ty E)	 	1						
(j) Delivered Base (Dist. 21)								
Surfacing		7 00						
(a) Aggr for Surf Treat (b) Asph for Surf Treat	 	6.92 .14						
(c) ASPN 107 Suri Treat	 	6.87			 			
(d) Conc Pavement								1
(l) Jtd Reinf								
(2) Contin Peinf		_					 	
Structures	 				 	+	 	+
Structures (a) Cl A Conc	 	46.11			 			
(b) Reinf Stl		.10						1
(c) Str Stl	<u> </u>	.15						
(d) Prestr Conc Beams	+	15.64		ļ	+	 		
(e) F1pe 24"	 	4.34		 	 	+	 	
	<u> </u>				<u> </u>			

Tab No. 19 Counties: All Counties in District 19

TA	Est. Cost	Index List Price	Item Index	Wt o f Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Item	COST	+1100	Index	(1 creent)	1 4 6 6 0 .1			
Excavation		. 44						
Base		 						
(s) Caliche								
Delivered								
(b) Shell with Sand Admix		3.58						
(c) Bank Run Gravel								
Delivered		-						
(d) Processed Gravel								
Delivered								
(e) Iron Ore		.92						
Delivered	<u> </u>	-			ļ			
(f) Crushed Stone	-	1.60					<u> </u>	-
(f) Crushed Stone Delivered	 	1,00						
Delivered				~				<u> </u>
(g) Fnd Crse					 			
Delivered	1							
				····				
(h) Cem Stab Base (Shell)	<u> </u>							
								
(i) Shell with Sand & Cal (Ty E)	 -							
(j) Delivered Base (Dist. 21)								
(.) Delivered Base (Dist. 21)	†	+			 			
C	↓	<u> </u>						
Surfacing (a) Aggr for Surf Treat		8.25			 			
(b) Asph for Surf Treat	1	.15						
(c) ACP	1	10.18						 -
(d) Conc Pavement	1	10010			 			
(1) Jtd Reinf	1	20.77						
(2) Contin Reinf								
	<u> </u>							
Structures (a) Cl A Conc	 	FE 00			\			
(b) Reinf Stl	+	55.92			 		 	-
(c) Str Stl	+	 			+		 	
(d) Prestr Conc Beams	1				 		 	
(e) Pipe 24"	+	4.63			†		<u> </u>	
\-\frac{1}{2}	 	1		-	1			
	٠					<u> </u>	<u> </u>	
						Index		

Tab No. 20
Counties: Newton, Jasper & Orange

	Est.	Index List	Item	Wt of Each Item	Item Index	Composite Item	Relative Weight Percent	Index Factor Percent
Item	Cost	Price	Index	(Percent)	Factor	Index	Percent	10100.
Excavation		•55						+
Base		+						
(s) Caliche		1						
Delivered		1						<u> </u>
Delivered								
b) Shell with Sand Admix		3.84						
								1
(c) Bank Run Gravel								
Delivered								
					<u> </u>			
(d) Processed Gravel	ļ	_ _ I						
Del i vered	ļ							
								
(e) Iron Ore		1.20						
Delivered								
7.0	 	 						
(f) Crushed Stone	+				 			
Delivered	 	-						
(g) Fnd Crse	 	.93					ļ	
Delivered	 	• • • • • •			 			-
Delivered	 				 			
(h) Cem Stab Base (Shell)	†				 			
	1							_
(i) Shell with Sand & Cal (Ty E)								
(j) Delivered Base (Dist. 21)								
Surfacing					 			
(a) Aggr for Surf Treat		7.34					İ _	
(b) Asph for Surf Treat		.12						
(c) ACP		7.81						
(d) Conc Pavement	 						ļ. <u></u>	
(1) Jtd Reinf		21.60			<u> </u>		ļ	
(2) Contin Peinf		25.56			 		ļ	
					<u> </u>			
Structures	+	F2 70			 			
(a) Cl A Conc (b) Reinf Stl	+	53.19			 			
(c) Str Stl	+	12			 		 	
(d) Prestr Conc Beams					+		 	+
(e) Pipe 24"	+	5.32			+			
/c/ IIba ta	+	2.32			 		 	+
	1	<u> </u>			1	ł	ł	

Tab No. 20 A
Counties: Tyler-Hardin-Liberty

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
TOEM	0000		223333					
xcavation	***	.80						
ase		 						
a) Caliche								
Delivered								-
								+
b) Shell with Sand Admix		3.57						
c) Bank Run Gravel								
Delivered								
								-
d) Processed Gravel Delivered		+						
Delivered		 						
e) Iron Ore	<u> </u>	1						<u> </u>
Delivered								
								ļ
f) Crushed Stone		 						
Delivered		+						
(g) Fnd Crse		1						
Delivered		1		· · · · · · · · · · · · · · · · · · ·				
h) Cem Stab Base (Shell)								
(i) Shell with Sand & Cal (Ty E)	 							+
1/ Dieli .itii bana a oai (i, i)		-						+
(j) Delivered Base (Dist. 21)								-
Surfacing								-
a) Aggr for Surf Treat		9.19						
(b) Asph for Surf Treat	-	8.90						
(c) ACP (d) Conc Pavement	 	0.90					 	+
(1) Jtd Reinf	†	22 77						
(2) Contin Reinf		22.77 24.17						
Structures		P/ AA						
(a) C1 A Conc (b) Reinf St1	+	56.02			 			
(b) Reinf Stl (c) Str Stl	 	.12			+	 		
d) Prestr Conc Beams	†	.15 19.36						
e) Pipe 24"	T	6.25						
	T				T T T			

Tab No. 20 B
Counties: Jefferson - Chambers

	Est. Cost _	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Item	COST	Trice	Index	(Terceno)	1 30 001	11.43.1		
Excavation		.30						
		<u> </u>						
Base		1						1
(a) Caliche Delivered		 						
Delivered		1						
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel								
Del <u>i</u> vered								
	<u> </u>					_		
(e) Iron Ore	ļ	+			L			-+
Delivered	ļ	-			 			
(f) Crushed Stone	 					_	<u> </u>	
Delivered		+			 			
Delivered		1						
(g) Fnd Crse					†			
Delivered				·				-
(h) Cem Stab Base (Shell)					<u></u>			
() = = = = = = = = = = = = = = = = = =	-				<u> </u>		 	
(i) Shell with Sand & Cal (Ty E)	 							
(j) Delivered Base (Dist. 21)	 	2.52			 			
(.j)_Delivered base (Dist. 21)		2.72			 	_		
Surfacing								
(a) Aggr for Surf Treat		6.72			 			
(b) Asph for Surf Treat	 	.15					 	+
(c) ACP		6.31					1	
(d) Conc Payement	1						†	
(1) Jtd Reinf								
(2) Contin Reinf								
Structures								
(a) Cl A Conc	<u> </u>	47.64						
(b) Reinf Stl	 	.10	L		 		ļ	
(c) Str Stl	 	.13			 		 	 -
(d) Prestr Conc Besms (e) Pipe 24"				 	+		 	
(e) ripe z+	+	5.39		 	+		 	
	1			1	1	ŀ	i	

Tab No. 21
Counties: Brooks-Kennedy-Willacy-Cameron-Hidalgo

Item	Est.	Index List Frice	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation		.32					<u> </u>	
						_		
Base (a) Caliche		1.18						
Delivered								
		↓						
(b) Shell with Sand Admix		 						
(c) Bank Run Gravel								
Delivered		<u> </u>						
(d) Processed Gravel		╁╌╌╌┤						
Delivered								
(e) Iron Ore								
Delivered								
(f) Crushed Stone								
Delivered								
(g) Fnd Crse		-			 	_		
Delivered	 	 				+	 	
(h) Cem Stab Base (Shell)	ļ	 						-
(i) Shell with Sand & Cal (Ty E)	 	 			 			-
(j) Delivered Base (Dist. 21)								
Surfacing (a) Aggr for Surf Treat	 	6.56			 			
(b) Asph for Surf Treat	 	.16			 		 	
(c) ACP		5.65						
(d) Conc Pavement					 			
(1) Jtd Reinf (2) Contin Peinf	 							+
(2) CONCIN LEIM	 	 			 			
Structures								
(a) Cl A Conc		44.77						
(b) Reinf Stl (c) Str Stl	 	.11		 	 		 	
(d) Prestr Conc Beams		12.62						
(e) Pipe 24"		5.93						
	1	1		1	1	ì	1	1

Tab No. 21 A
Counties: Webb-Duval-Jim Hogg-Starr-Zapata

	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Rela tiv e We ight Percent	Index Factor Percent
Item	Cost	rrice	Index	(Percent)	Fac 601	Index		
Excavation		.37						
2.00.73.0201							·	<u> </u>
Base								
(a) Caliche		. 74						
Delivered		↓						-
(b) Shell with Sand Admix		+						
(b) Shell with Sand Admix		1						
(c) Bank Run Gravel								
Delivered								
(d) Processed Gravel]					
Del i vered		 						_
		1						
(e) Iron Ore		 						
Delivered		 						+
(a) G 1 3 G1	 	1 7 7 7						
(f) Crushed Stone Delivered	 	1.17						+
Delivered	 	+						
(g) Fnd Crse	 	.58					 	
Delivered	 	1 .30						
Delivered	 							
(h) Cem Stab Base (Shell)					<u> </u>			
(12) 042 043 043 (33.42)	†	1						1
(i) Shell with Sand & Cal (Ty E)								
(j) Delivered Base (Dist. 21)								
Surfacing					 		<u>† </u>	+
(a) Aggr for Surf Treat	1	5.64			<u> </u>		 	
(b) Asph for Surf Treat		.14						
(c) ACP	1	5.94						
(d) Conc Pavement								
(1) Jtd Reinf							·	
(2) Contin Feinf								
Structures	.	1,6 38						
(s) Cl A Cone		46.30						
(b) Reinf Stl	 	-11	- · · · · · · · · · · · · · · · · · · ·				 	+
(c) Str Stl	+				 	_	 	+
(d) Prestr Conc Beams (e) Pipe 24"	 				+		 	
(e) Pipe 24"	 	5-04		 			+	+
	1				1		ــــــــــــــــــــــــــــــــــــــ	
<u> </u>						Index		

Tab No. 22
Counties: Mayerick-Zavala-Dimmitt

Item	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Excavation	<u> </u>	•77	 +					
Base								
(a) Caliche		.80						+
Delivered	 	 						
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered	ļ							
(d) Processed Gravel		 						
Delivered								
(e) Iron Ore Delivered		 						+
Delivered	 	 						
(f) Crushed Stone		1.27						
Delivered								
(g) Fnd Crse	 	1.27			<u> </u>		 	+
Delivered	 	1.21						
(h) Cem Stab Base (Shell)		<u> </u>					 	
(i) Shell with Sand & Cal (Ty E)	 	+						+
						<u> </u>		
(j) Delivered Base (Dist. 21)								
Surfacing	 							
(a) Aggr for Surf Treat		5.35						
(b) Asph for Surf Treat		.15 5.95						
(c) ACP (d) Conc Pavement		1 5.95					 	
(1) Jtd Reinf	+							
(2) Contin Feinf								
Structures	 	ļ				 		
(a) Cl A Conc	<u> </u>	42.48			<u> </u>	<u> </u>		
(b) Reinf Stl		.10						
(c) Str Stl		.22					<u></u>	4
(d) Prestr Conc Beems (e) Pipe 24"		20.43			 		 	
(e) trhe sa	+	7.22			 		 	
	ــــــــــــــــــــــــــــــــــــــ	1	L	L			<u> </u>	

Tab No. 22 A
Counties: Val Verde-Edwards-Regl-Uvalde-Kinney

	Est.	Index List	Item	Wt of Each Item	Item Index	Composite Item	Relative Weight	Index Factor Percent
Item	Cost	Price	Index	(Percent)	Factor	Index	Percent	Percent
Excavation		.46						
Base		 			<u></u>	 		 -
(a) Caliche		1.29				+		
Delivered		 						1
(b) Shell with Sand Admix	 	1						
To breat with band name.								
(c) Bank Run Gravel		1						
Delivered		1						
	<u> </u>	 		 	 			
(d) Processed Gravel	 	.95			 		 _	
<u>Delivered</u>	 	+			 			+
(e) Iron Ore	 	 						+
Delivered	 	 			 			
					 			1
(f) Crushed Stone		1.36						
Delivered		2.34						
	ļ							
(g) Fnd Crse		.60						
Del i vered	 				 		ļ	
(h) Cem Stab Base (Shell)	 	+			 		 	
(H) Cem Stan base (Shell)	 	 			 			
(i) Shell with Sand & Cal (Ty E)	<u> </u>	1				_		
(j) Delivered Base (Dist. 21)								
Surfacing	†	 			 	- 	 	+
(a) Aggr for Surf Treat		5.43					L	<u> </u>
(b) Asph for Surf Treat		.15						
(c) ACP	 	6 .2 7						
(d) Conc Payement	 				 		 	
(1) Jtd Reinf (2) Contin Reinf	 				 		 	+
(2) Contin reini	+	+			+		 	
Structures	+	+			 		 	+
(s) Cl A Conc	 	45.05		 	 		 	
(b) Reinf Stl		.11			<u> </u>			1
(c) Str Stl		.16						
(d) Prestr Conc Beams		15.27						
(e) Pipe 24"	ļ	4.87		<u> </u>	<u> </u>			
					l			1 -

Tab No. 23
Counties: All Counties in District 23

T4	Est. Cost	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Relative Weight Percent	Index Factor Percent
Item	0030		Index	(10100110)				
Excavation		.46						
Base		1						
(a) Caliche		1.06				_		
Delivered			<u>\</u>					
(b) Shell with Sand Admix								
(c) Bank Run Gravel								
Delivered								<u> </u>
(d) Processed Gravel	 	.99			 			
Delivered								1
(e) Iron Ore	ļ	+						
Delivered								
(2) (2) (3)		1.06						
(f) Crushed Stone Delivered	 	2.45			 			1
								
(g) Fnd Crse	ļ	.88						_
Delivered	 				 			
(h) Cem Stab Base (Shell)								
(a) G 23 (b) G 3 (B) B	 				ļ			
(i) Shell: ith Sand & Cal (Ty E)	 	+			 	+	<u> </u>	+
(j) Delivered Base (Dist. 21)							İ	
Surfacing (a) Aggr for Surf Treat	ļ ———	4.89						
(a) Aggr for Surf Treat (b) Asph for Surf Treat	 	.16			 			
(c) ACP	+	4-66			1			
(d) Conc Pavement					†			+
(1) Jtd Reinf								
(2) Contin Peinf	1							İ
Structures	1	1						
(a) Cl A Conc		49.89			 		 	-
(b) Reinf Stl		.11						1
(c) Str Stl								
(d) Prestr Conc Beams		17.15						
(e) Pipe 24"		5.43						
							1	

Tab No. 24
Counties: All Counties in District 24 except El Paso

Item	Est.	Index List Price	Item Index	Wt of Each Item (Percent)	Item Index Factor	Composite Item Index	Rela tiv e We ig ht Percent	Index Factor Percent
Excavation		.33						
		-				+		+
Base (a) Caliche		+						
Delivered		1						
(b) Shell with Sand Admix		 						
(c) Bank Run Gravel		 				 		
Delivered		+						+
Delivered	L	1						
(d) Processed Gravel								
Delivered								
								<u> </u>
(e) Iron Ore								
Delivered		1						
(f) Crushed Stone	 	1.15	}		 			-}
Delivered	 	2.03			 			
Delivered	 	1						<u> </u>
(g) Fnd Crse								<u> </u>
Del1vered	1							
(h) Cem Stab Base (Shell)	ļ	_						
(i) Shell with Sand & Cal (Ty E)	 							
(i) Shell : ith Sand & Cal (Ty E)	 	 						-
(j) Delivered Base (Dist. 21)	 							
(.) Delivered base (Disc. 21)		1					<u> </u>	
Surfacing	 				 			<u> </u>
(a) Aggr for Surf Treat	 	5.30			 			
(b) Asph for Surf Treat	 	.16			 		 	+
(c) ACP		5.03			<u> </u>			
(d) Conc Pavement								
(1) Jtd Reinf	<u> </u>							
(2) Contin Feinf	ļ	20.16			<u> </u>			
					ļ		 	
Structures (a) Cl A Conc	 	40.61			 		1	
(b) Reinf Stl	+	.10			+		 	
(c) Str Stl	 	.16			 	+	 	
(d) Prestr Conc Beams	1	15.02						+
(e) Pipe 24"	1	5.21					1	
	1							
				<u> </u>			<u> </u>	

Tab No. 24 A
Counties: El Paso

Excavation .30	Relative Weight Percent	Index Factor Percent
Base		
(s) Caltche Delivered (b) Shell with Sand Admix (c) Bank Run Gravel Delivered (d) Processed Gravel Delivered (e) Iron Ore Delivered (f) Crushed Stone Delivered (g) Fnd Crse Delivered (h) Cem Stab Base (Shell) (1) Shell :ith Sand & Cal (Ty E) (1) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) APP (d) Contin Feinf (e) Contin Feinf (f) Crushes (h) Cem Stab Base (Shell) (h) Structures (a) Aggr for Surf Treat (b) Fnd Crse (c) APP (c) APP (d) Contin Feinf (e) Contin Feinf (f) Crushes (g) Cl A Cone (h) Friend Stab (h) Friend Stab (h) Cem Stab (h) Ce		
Delivered Deli		ļ
(b) Shell with Sand Admix (c) Bank Run Gravel Deltvered (d) Processed Gravel Deltvered (e) Iron Ore Deltvered (f) Crushed Stone Deltvered (g) Fnd Cree Deltvered (h) Cem Stab Base (Shell) (i) Shell with Sand & Cal (Ty E) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) AFP (d) Conc Pevement (l) Jtd Feinf (l) Structures Structures Structures (s) Cl A Conc (b) Reinf Stl (c) Exp Stl (d) Processes (e) Cl A Conc (l) Feinf Stl		+
(c) Bank Run Gravel Delivered (d) Processed Gravel Delivered (e) Iron Ore Delivered (f) Crushed Stone Delivered (g) Fnd Crse Delivered (h) Cem Stab Base (Shell) (i) Shell :ith Sand & Cal (Ty E) (j) Delivered Base (Dist. 21) Surfacing (s) Aggr for Surf Treat (b) Asph for Surf Treat (c) AF (d) Conc Fevement (l) Jtd Feinf (e) Contin Feinf Structures (s) Cl & Conc (s) Erinf Stl (c) Erinf Stl (d) Feinf Stl (e) Erinf Stl (f) Feirst Conc Besms		
Delivered 1.09		
Delivered 1.09		† · · · · · · · · · · · · · · · · · · ·
(d) Processed Gravel Delivered (e) Iron Ore Delivered (f) Crushed Stone Delivered (g) Fnd Crse Delivered (h) Cem Stab Base (Shell) (1) Shell with Sand & Cal (Ty E) (2) Agar for Surf Treat (3) Agar for Surf Treat (4) Asph for Surf Treat (5) Asph for Surf Treat (6) ASP (7) Jtd Feinf (8) Conc Pavement (9) Contin Peinf Structures (1) Jtd Conc (2) Contin Peinf Structures (5) Cl A Conc (6) Eginf Stl (6) Eginf Stl (7) Feinf Stl (1) Jtd Prestr Conc Beems		1
Delivered Deli		1
(e) Iron Ore Delivered (f) Crushed Stone Delivered (g) Fnd Crse Delivered (h) Cem Stab Base (Shell) (i) Shell :ith Sand & Cal (Ty E) (j) Delivered Base (Dist. 21) Surfacing (a) Agar for Surf Treat (b) Asph for Surf Treat (c) ACP (d) Cone Pavement (l) Jtd Fetnf (2) Contin Feinf Structures (s) C1 A Cone (b) Fetnf Stl (c) Str Stl (d) Prestr Cone Besms		
Delivered 1.19		<u> </u>
Delivered		<u> </u>
(f) Crushed Stone 1.19 Delivered 1.01 (g) Fnd Crse 1.01 Delivered 1.01 (h) Cem Stab Base (Shell) 1.01 (i) Shell with Sand & Cal (Ty E) 1.01 (j) Delivered Base (Dist. 21) 1.01 Surfacing 1.01 (a) Aggr for Surf Treat 1.01 (b) Asph for Surf Treat 1.01 (c) ADF 1.01 (d) Cone Pavement 1.01 (l) Jtd Feinf		
Delivered 1.01		
Delivered 1.01		
(g) Fnd Crse Delivered (h) Cem Stab Base (Shell) (i) Shell ::th Sand & Cal (Ty E) (j) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACP (d) Conc Pavement (l) Jtd Peinf (2) Contin Feinf Structures (a) Cl A Conc (b) Reinf Stl (c) Str Stl (c) Str Stl (d) Prestr Conc Beems		
Delivered		
(h) Cem Stab Base (Shell) (i) Shell with Sand & Cal (Ty E) (j) Delivered Base (Dist. 21) Surfacing (a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACP (d) Conc Pavement (l) Jtd Peinf (2) Contin Peinf Structures (a) C1 A Conc (b) Reinf Stl (c) Str Stl (d) Prestr Conc Besms		
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(a) Aggr for Surf Treat (b) Asph for Surf Treat (c) ACP (d) Conc Pavement (1) Jtd Peinf (2) Contin Reinf Structures (a) C1 A Conc (b) Reinf St1 (c) Str St1 (d) Prestr Conc Beams		
(a) Aggr for Surf Treat 5.90 (b) Asph for Surf Treat 15.16 (c) ACP 5.16 (d) Conc Pavement 16 (1) Jtd Reinf 16 (2) Contin Reinf 17.56 (a) C1 A Conc 16 (b) Reinf St1 11 (c) Str St1 15 (d) Prestr Conc Beams		-
(b) Asph for Surf Treat (c) ACP (d) Conc Pavement (1) Jtd Reinf (2) Contin Reinf Structures (a) C1 A Conc (b) Reinf St1 (c) Str St1 (d) Prestr Conc Beams		
(d) Conc Pavement (1) Jtd Reinf (2) Contin Reinf Structures (a) C1 A Conc (b) Reinf St1 (c) Str St1 (d) Prestr Conc Beams		
(1) Jtd Reinf (2) Contin Reinf Structures (a) C1 A Conc 47.56 (b) Reinf St1 .11 (c) Str St1 .15 (d) Prestr Conc Beams		
(2) Contin Reinf Structures (a) C1 A Conc 47.56 (b) Reinf St1 .11 (c) Str St1 .15 (d) Prestr Conc Beams		
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(s) Cl A Conc 47.56 (b) Reinf Stl .11 (c) Str Stl .15 (d) Prestr Conc Besms		
(s) Cl A Conc 47.56 (b) Reinf Stl .11 (c) Str Stl .15 (d) Prestr Conc Besms		
(b) Reinf Stl .11 .11 .15 .15 .16 .17 .18 .19 .19 .19 .19 .19 .19 .19 .19 .19 .19		
(c) Str Stl .15 .15 .15 .15		
(d) Prestr Conc Beams		1
		1
Index		

Tab No. 25 Counties: All Counties in District 25