

Overview of Contract Payment Types and Rate Schedule Development

Design Division – Consultant Contract Office

2007 Design-Bridge Conference
Corpus Christi, Texas
August 15, 2007

Basis of Payment

Cost Plus Fixed Fee

Specified Rate

Lump Sum

Unit Cost

WAs Used _____

Contract No. _____

ATTACHMENT E

FEE SCHEDULE (Final Cost Proposal)

This attachment provides the basis of payment and fee schedule. **The basis of payment for this contract is indicated by an "X" in the applicable box.** The basis shall be supported by the Final Cost Proposal (FCP) shown below. If more than one basis of payment is used, each one must be supported by a separate FCP.

"X"	Basis	
___	Lump Sum	The lump sum shall be equal to the maximum amount payable. The lump sum includes all direct and indirect costs and fixed fee. The Engineer shall be paid pro rata based on the percentage of work completed. For payment the Engineer is not required to provide evidence of actual hours worked, travel, overhead rates or other evidence of cost.
___	Unit Cost	The unit cost(s) for each type of unit and number of units are shown in the FCP. The unit cost includes all direct and indirect costs and fixed fee. The Engineer shall be paid based on the type and number of units fully completed and the respective unit cost. For payment, the Engineer is not required to provide evidence of actual hours worked, travel, overhead rates or any other cost data. The FCP may include special items, such as equipment which are not included in the unit costs. Documentation of these special costs may be required. The maximum amount payable equals the total of all units times their respective unit cost plus any special direct items shown.
___	Specified Rate Basis	The specified rates for each type of labor are shown in the FCP below. The FCP may include special items, such as equipment which are not included in the specified rates. Payment shall be based on the actual hours worked multiplied by the specified rate for each type of labor plus other agreed to special direct cost items. The specified rate includes direct labor and indirect cost and fixed fee. The State may request documentation of reimbursable direct costs including hours worked. Documentation of special item costs may be required. The specified rate is not subject to audit.
___	Cost Plus Fixed Fee	<p>Payment shall be based on direct and indirect costs incurred <u>plus</u> a pro rata share of the fixed fee based on the ratio of <u>labor and overhead cost incurred to total estimated labor and overhead cost in the FCP</u> or the percentage of work completed. The invoice must itemize labor rates, hours worked, other direct costs and indirect costs. The Engineer may be required to provide documentation of hours worked and any eligible direct costs claimed. The provisional overhead rate charged is subject to audit and adjustment to actual rates incurred. The FCP below shows the hourly rates for labor, other direct expenses including but not limited to travel and allowable materials, provisional overhead rate and the fixed fee.</p> <p>___ A. Actual Cost Plus Fixed Fee - Actual wages are paid (no minimum, no maximum. This option does not apply to Indefinite Deliverable Contracts.)</p> <p>___ B. Range of Cost Plus Fixed Fee – Actual wages <u>must</u> be within the allowable range shown on the Final Cost Proposal.</p>

Contracting Summary

FY 2002 - 2006

FY	Total # Contracts Awarded
2002	247
2003	180
2004	293
2005	234
2006	305
Total	1259

Specific Deliverable = 119 (10%)

Indefinite Deliverable = 1140 (90%)

Engineering = 723 (57%)

Surveying = 360 (29%)

Materials Eng. (Lab) = 122 (10%)

Bridge Inspection = 27 (2%)

Architecture = 27 (2%)

Contract Rate Schedule

- Labor Rates
- Overhead Rate
- Profit Rate
- Other Direct Expenses

Cost Plus Fixed Fee

Cost Plus Fixed Fee

- ❑ Typically By Provider
- ❑ Supplemental Agreement Required to Change

Example Rate Schedule Format - Engineering

COST PLUS FIXED FEE PAYMENT BASIS

Contract # XX-ZZZP5001

PRIME OR SUBPROVIDER NAME: _____

Labor/Staff Classification	Direct Labor			
	Minimum	Maximum FY XX	Maximum FY XX	Maximum FY XX
Principal	\$ 22.00	\$ 32.00	\$ 32.96	\$ 33.95
Senior Project Manager	\$ 21.00	\$ 31.00	\$ 31.93	\$ 32.89
Project Manager	\$ 20.00	\$ 30.00	\$ 30.90	\$ 31.83
Senior Engineer	\$ 19.00	\$ 29.00	\$ 29.87	\$ 30.77
Project Engineer	\$ 18.00	\$ 28.00	\$ 28.84	\$ 29.71
Design Engineer	\$ 17.00	\$ 27.00	\$ 27.81	\$ 28.65
EIT	\$ 16.00	\$ 26.00	\$ 26.78	\$ 27.59
Senior Engineer Tech	\$ 15.00	\$ 25.00	\$ 25.75	\$ 26.53
Engineer Tech	\$ 14.00	\$ 24.00	\$ 24.72	\$ 25.47
Junior Engineer Tech	\$ 13.00	\$ 23.00	\$ 23.69	\$ 24.40
Senior CADD Operator	\$ 12.00	\$ 22.00	\$ 22.66	\$ 23.34
CADD Operator	\$ 11.00	\$ 21.00	\$ 21.63	\$ 22.80
Admin/Clerical	\$ 10.00	\$ 20.00	\$ 20.60	\$ 21.22
Negotiated Overhead Rate: 155%		Actual rates to be billed not to exceed the maximum shown.		
Negotiated Profit Rate: 12%		Minimum rate to be billed if actual is less.		
		Documentation of hours worked is necessary for reimbursement.		

Other Direct Expenses

See the separate file for guidance and format for Other Direct Expenses.

Cost Plus Fixed Fee

- Labor Rates
 - Negotiate Maximums
 - Reimburse Actual Hourly Rates
- Staffing Categories
 - Provide for Expected Staff
 - Consider the Unexpected

Staffing Categories

- ❑ Define According to the Project Organization –
Not the Provider's Organization
- ❑ Define According to Project Role and Experience –
Not Professional Titles

**The Staffing Categories Are Not Intended
To Be Used as a Shopping List**

Cost Plus Fixed Fee

□ Overhead Rate

- Accept the Audited Rate – OR –
- Negotiate a Different Rate

□ Profit (%)

- Rate Based On Project Characteristics
- Not To Exceed 15%
- Used To Calculate Fixed Fee (\$)

Other Direct Expenses

- Reimburse Actual Cost
 - Not To Exceed Maximums
 - Receipts Required For Purchased Items
- Reimburse Fixed Rate
 - Documentation of Use for Fixed Rate Items
 - Mileage Log
 - Copier Usage Log
 - Proof of Overnight Stay

Other Direct Expenses

- Identify Anticipated/Possible Items
- Primary Responsibility - Consultant

**An Item Cannot Be Identified in a
Work Authorization if it Was
Not Identified in the Contract**

Other Direct Expenses

- ❑ Guidance Issued
May 23, 2007
- ❑ Sample List – 3 pgs
- ❑ Negotiate Fixed or
Max Cost
- ❑ Coordinate With the
Project Team to
Develop Complete List

Example List of Other Direct Expenses

The list below is provided for reference only. The list should be modified, as appropriate, to meet the needs of each contract. The designated unit may also vary depending on what's applicable. For contracts with multiple disciplines, you are encouraged to coordinate with other district or division staff to verify items needed and cost reasonableness.

Several examples are provided for air travel. If needed, use what is most appropriate. For air travel, if a maximum dollar amount is not identified, indicate "Coach" as the maximum cost.

If developed correctly, one table for Other Direct Expenses is sufficient for all four (4) payment types. Required notes are at the end of the table.

When possible - Develop one table applicable to the prime and subproviders.

OTHER DIRECT EXPENSES			
Type	Unit	Fixed Cost	Maximum Cost
Lodging/Hotel (Taxes/fees not included)	day/person		Current State Rate
Meals	day/person		Current State Rate
Mileage	mile	Current State Rate	
Rental Car	day		
SUV or ATV Rental	day		
Lease Vehicle	month		
Rental Car Fuel	day		
Air Travel	Rd Trip/person		Coach
Air Travel - In State - Short Notice (Coach)	Rd Trip/person		\$
Air Travel - In State - 2+ Wks Notice	Rd Trip/person		Coach
Air Travel - Out of State - Short Notice (Coach)	Rd Trip/person		\$
Air Travel - Out of State - 2+ Wks Notice	Rd Trip/person		Coach
Air Travel from New York	Rd Trip/person		Coach
Air Travel from Dallas (Coach)	Rd Trip/person		\$
Air Travel from Houston	Rd Trip/person		Coach
Parking	day		
Parking	week		
Toll Charges	each		
Taxi/Cab fare	each/person		
Telephone	month		
Postage & shipping	month		
Postage	each		
Standard Postage	letter	Current Postal Rate	
Overnight Mail - letter size	each		
Overnight Mail - oversized box	each		
Courier Services	each		
Photocopies B/W (8 X 10)	each		
Photocopies B/W (11 X 17)	each		
Photocopies Color (8 X 10)	each		
Photocopies Color (11 X 17)	each		
Digital Ortho Plotting	sheet		
Blueline Prints (23 X 36)	each		

Miscellaneous ODEs

- ❑ Limited Approval Authority
- ❑ Applies to the Contract
- ❑ Not Per Work Authorization
- ❑ These Costs Are Absorbed Within the Max NTE



Example List of Other Direct Expenses

OTHER DIRECT EXPENSES			
Type	Unit	Fixed Cost	Maximum Cost
Sound Technician for Public Involvement	event		
Public Involvement Facility Rental	event		
Public Involvement Facility Rental (estimate)	XX hours		
Audio - Visual Equipment Rental	event		
Audio - Equipment Rental	each		
Public Notices - Mass Mailing	500		
Desktop & Microcomputer w/Plotter	hour		
Microstation CADD System w/Plotter	hour		
Robotic Total Station	day		
Boat with Motor	day		
GPS RTK	hour		
GPS Static	hour		
Map Records	sheet		
Certified Deed Copies	sheet		
Deed Copies	sheet		
Aerial Film Scanning	per frame		
Aerial Turns	each		
Aerial Turns	mile		
Cross Country	mile		
Mobilization Fee	each		
Film	linear foot		
Photographs	mile		
Flight Line	mile		

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NOTE: For Cost Plus Fixed Fee, Specified Rate, and Unit Cost - Miscellaneous other direct expenses up to \$100 per unit will be reimbursed at cost if approved and documented in advance by the TxDOT Project Manager. Miscellaneous other direct expenses of \$100 per unit or more will not be reimbursed unless a supplemental agreement to the contract and work authorization (if WAs are used) has been executed in advance authorizing the miscellaneous other direct expenses. No more than \$2,500 in miscellaneous other direct expenses may be approved by the TxDOT Project Manager over the life of this contract including prime provider and subproviders. **For Lump Sum** - This statement does not apply.

Profit not allowed on Other Direct Expenses. Costs included in overhead will not be reimbursed as other direct expenses. **For Cost Plus Fixed Fee, Specified Rate, and Unit Cost** - Unless fixed, actual rates to be billed not to exceed the maximum shown. Documentation such as receipts or usage logs for other direct expenses are necessary for reimbursement. **For Lump Sum** - No documentation required. Invoicing by physical percent complete includes combination of direct labor and other direct expenses.

Basis for Maximum NTE

- Detailed Scope Of Work w/ Deliverables
- Negotiated Level of Effort (Hours)
- Approximate Rate Per Staffing Category
 - Don't Use Contract Maximums
- Overhead Rate – From Contract
- Profit Rate – From Contract
- Quantities of Other Directs
 - Use Fixed Rate or Approximate Actual Cost

Maximum NTE with Fixed Fee

- Fixed Fee (\$)
 - Percentage Of Prime's Labor & OH Costs
 - Subprovider Profit is Not Included
- Clearly Show Fixed Fee Calculation
- Clearly Label the Fixed Fee (\$)

Maximum NTE with Fixed Fee

Prime Provider		Staffing Categories	
		Hourly Rates by Category (\$)	
Project Tasks Based On Scope of Work		Hours or Level of Effort	
Defined By Function Codes			
		Total Labor (\$)	
		Overhead (%)	+ OH(\$)
		Profit (%)	+ Fixed Fee (\$) 
Other Directs		Unit Costs	+ OD Cost (\$)
Travel		\$/unit	+ Sub A (\$)
Per diem		\$/unit	+ Sub B (\$)
Other Items		\$/unit	
		Maximum Amount Not to Exceed	Fair and Reasonable Cost (\$)

CPFF - Invoice

- ❑ Detailed Progress Report
- ❑ Table Identifying Staff, Hours, and Actual Rates
- ❑ Timesheets
- ❑ OH Cost Per Contract Rate
- ❑ Partial Fixed Fee
- ❑ Other Direct Expenses - With Back-Up
- ❑ Subprovider Invoices In Similar Format
- ❑ H-Forms

Specified Rate

Specified Rate - Surveying

- Typically By Provider
- Supplemental Agreement Required to Change

Example Rate Schedule - Surveying

**SPECIFIED RATE PAYMENT BASIS
AND
LUMP SUM PAYMENT BASIS**
(Select one or both)

Contract # XX-ZZZP1001

PRIME OR SUBPROVIDER NAME: _____

Direct Labor

Labor/Staff Classification	Contract Rate FY XX	Contract Rate FY XX
Principal	\$ 35.00	\$ 36.05
Project Manager	\$ 34.00	\$ 35.02
Registered Professional Land Surveyor	\$ 33.00	\$ 33.99
Project Supervisor	\$ 32.00	\$ 32.96
Abstractor	\$ 31.00	\$ 31.93
Survey Technician	\$ 30.00	\$ 30.90
Survey Technician - GPS	\$ 29.00	\$ 29.87
Drafter	\$ 28.00	\$ 28.84
1-man Survey Crew	\$ 27.00	\$ 27.81
2-man Survey Crew	\$ 26.00	\$ 26.78
3-man Survey Crew	\$ 25.00	\$ 25.75
4-man Survey Crew	\$ 24.00	\$ 24.72
5-man Survey Crew	\$ 23.00	\$ 23.69
CADD Operator	\$ 22.00	\$ 22.66
Flagger	\$ 21.00	\$ 21.63
Admin/Clerical	\$ 20.00	\$ 20.60

Contract rates include labor, overhead, and profit.

All rates are negotiated rates and are not subject of change or adjustment.

For Specified Rate Payment Basis - Contract rates to be billed. Documentation of hours required.

For Lump Sum Payment Basis - Physical percent complete to be billed. Documentation of hours worked not required.

Other Direct Expenses

See the separate file for guidance and format for Other Direct Expenses.

Specified Rate - Engineering

- ❑ Typically By Provider
- ❑ Supplemental Agreement Required to Change

Example Rate Schedule Format - Engineering

**SPECIFIED RATE PAYMENT BASIS
AND
LUMP SUM PAYMENT BASIS
(Select one or both)**

Contract # XX-ZZZP5001

PRIME OR SUBPROVIDER NAME: _____

Labor/Staff Classification	Direct Labor		
	Negotiated Hourly Base Rate	Contract Rate FY XX	Contract Rate FY XX
Principal	\$ 22.00	\$ 62.83	\$ 64.72
Senior Project Manager	\$ 21.00	\$ 59.98	\$ 61.78
Project Manager	\$ 20.00	\$ 57.12	\$ 58.83
Senior Engineer	\$ 19.00	\$ 54.26	\$ 55.89
Project Engineer	\$ 18.00	\$ 51.41	\$ 52.95
Design Engineer	\$ 17.00	\$ 48.55	\$ 50.01
EIT	\$ 16.00	\$ 45.70	\$ 47.07
Senior Engineer Tech	\$ 15.00	\$ 42.84	\$ 44.13
Engineer Tech	\$ 14.00	\$ 39.98	\$ 41.18
Junior Engineer Tech	\$ 13.00	\$ 37.13	\$ 38.24
Senior CADD Operator	\$ 12.00	\$ 34.27	\$ 35.30
CADD Operator	\$ 11.00	\$ 31.42	\$ 32.36
Admin/Clerical	\$ 10.00	\$ 28.56	\$ 29.42

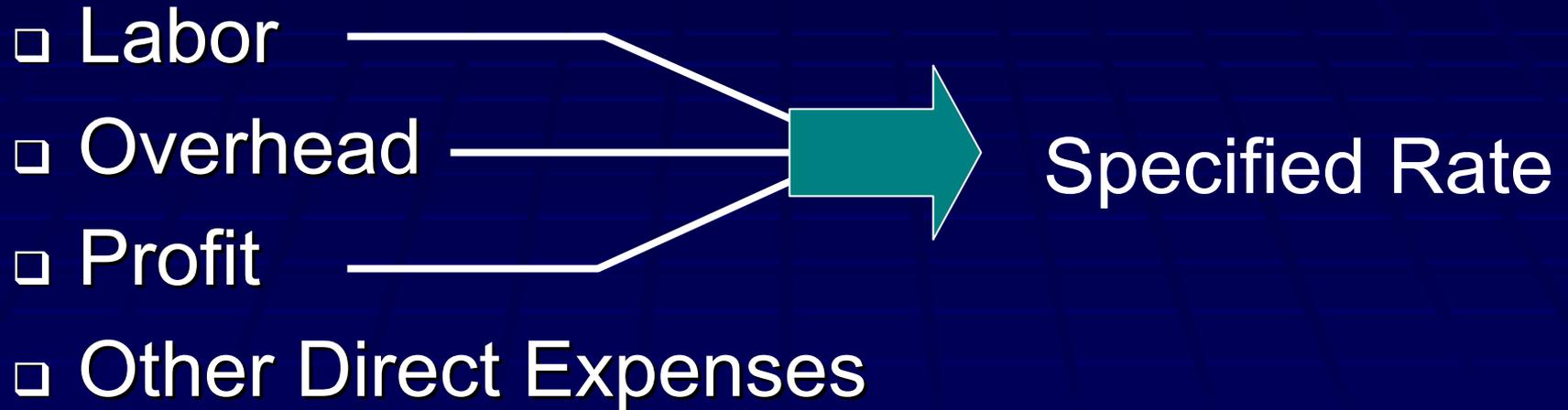
Negotiated Overhead Rate: 155%
Negotiated Profit Rate: 12%

Contract Rates include labor, overhead, and profit.
All rates are negotiated rates and are not subject to change or adjustment.
For Specified Rate Payment Basis - Contract rates to be billed.
Documentation of hours required.
For Lump Sum Payment Basis - Physical percent complete to be billed.
Documentation of hours worked not required.

Other Direct Expenses

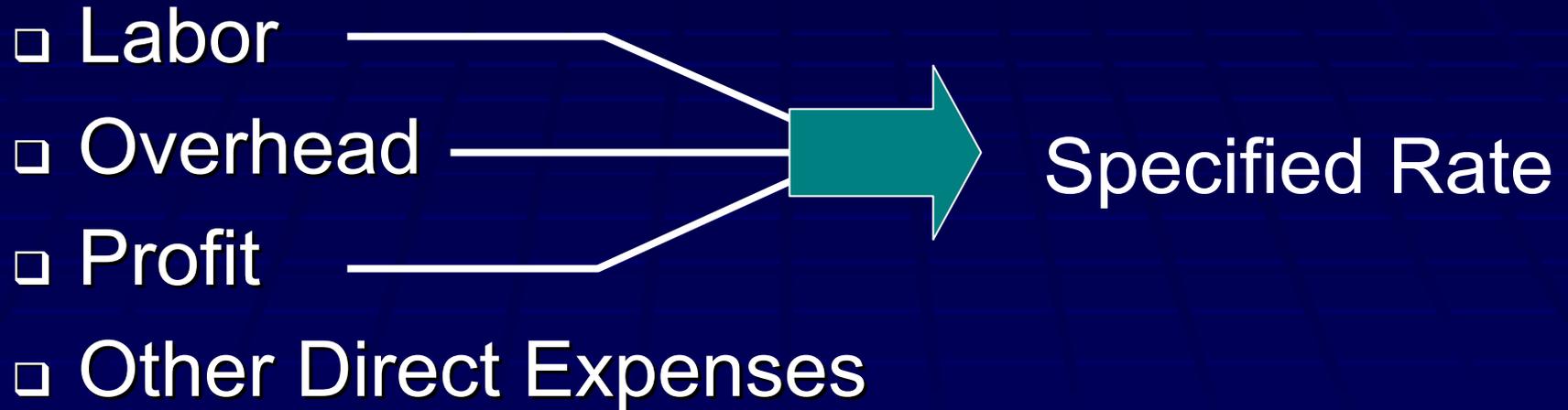
See the separate file for guidance and format for Other Direct Expenses

Specified Rate (Surveying)



Information Is Not Available To Evaluate
Labor, Overhead, And Profit Rates Separately

Specified Rate (Engineering)



Information is Available To Evaluate
Labor, Overhead, And Profit Rates Separately

Specified Rate – Engineering

□ Labor Rates

- Negotiate Base Rates
- Used to Calculate the Loaded Rate

□ Staffing Categories

- Provide for Expected Staff
- Consider the Unexpected

Staffing Categories

- ❑ Define According to the Project Organization –
Not the Provider's Organization
- ❑ Define According to Project Role and Experience –
Not Professional Titles

**The Staffing Categories Are Not Intended
To Be Used as a Shopping List**

Specified Rate

□ Overhead Rate

- Accept the Audited Rate – OR –
- Negotiate a Different Rate
- Used to Calculate the Loaded Rate

□ Profit (%)

- Rate Based On Project Characteristics
- Not To Exceed 15%
- Used To Calculate the Loaded Rate

Other Direct Expenses

- Same as Cost Plus Fixed Fee

Basis for Maximum NTE

- Detailed Scope Of Work w/ Deliverables
- Negotiated Level of Effort (Hours)
- Loaded Contract Rates
- Quantities of Other Directs
 - Use Fixed Rate or Approximate Actual Cost

Maximum NTE

Prime Provider		Staffing Categories	
		Specified (Contract) Rates by Category (\$)	
Project Tasks Based On Scope of Work Defined By Function Codes		Hours or Level of Effort	
		Total Labor (\$)	
Other Directs	Unit Costs	Other Directs	+ OD Cost (\$)
Travel	\$/unit		+ Sub A (\$)
Per diem	\$/unit		+ Sub B (\$)
Other Items	\$/unit		
		Maximum Amount Not to Exceed	Fair and Reasonable Cost (\$)

Specified Rate - Invoice

- ❑ Detailed Progress Report
- ❑ Table Identifying Staff, Hours, and Loaded Rates
- ❑ Timesheets
- ❑ Other Direct Expenses - With Back-Up
- ❑ Subprovider Invoices In Similar Format
- ❑ H-Forms

Lump Sum

Lump Sum

- Requires Predictable, Well-Defined Scope
- Knowledge/Confidence in Level of Effort
- Fixed Cost To Be Paid For Completion
- Payment By Interim/Final Deliverables
- Actual Hours/Cost Irrelevant

TxDOT's Evaluation Of Risk

- How Predictable Is Scope Of Work?
- Risk Of Paying More Than Necessary
Should Be Within Acceptable Limits

Consultant's Evaluation Of Risk

- How Predictable Is Scope Of Work?
- Risk Of Losing Money Should Be Within Acceptable Limits
- Risk Of Loss is Balanced With Possibility of Increased Profits

Lump Sum

Identical to
Specified Rate

Example Rate Schedule Format - Engineering

**SPECIFIED RATE PAYMENT BASIS
AND
LUMP SUM PAYMENT BASIS
(Select one or both)**

Contract # XX-ZZZP5001

PRIME OR SUBPROVIDER NAME: _____

Direct Labor

Labor/Staff Classification	Negotiated Hourly Base Rate	Contract Rate FY XX	Contract Rate FY XX
Principal	\$ 22.00	\$ 62.83	\$ 64.72
Senior Project Manager	\$ 21.00	\$ 59.98	\$ 61.78
Project Manager	\$ 20.00	\$ 57.12	\$ 58.83
Senior Engineer	\$ 19.00	\$ 54.26	\$ 55.89
Project Engineer	\$ 18.00	\$ 51.41	\$ 52.95
Design Engineer	\$ 17.00	\$ 48.55	\$ 50.01
EIT	\$ 16.00	\$ 45.70	\$ 47.07
Senior Engineer Tech	\$ 15.00	\$ 42.84	\$ 44.13
Engineer Tech	\$ 14.00	\$ 39.98	\$ 41.18
Junior Engineer Tech	\$ 13.00	\$ 37.13	\$ 38.24
Senior CADD Operator	\$ 12.00	\$ 34.27	\$ 35.30
CADD Operator	\$ 11.00	\$ 31.42	\$ 32.36
Admin/Clerical	\$ 10.00	\$ 28.56	\$ 29.42

Negotiated Overhead Rate: 155%
Negotiated Profit Rate: 12%

Contract Rates include labor, overhead, and profit.
All rates are negotiated rates and are not subject to change or adjustment.
For Specified Rate Payment Basis - Contract rates to be billed.
Documentation of hours required.
For Lump Sum Payment Basis - Physical percent complete to be billed.
Documentation of hours worked not required.

Other Direct Expenses

See the separate file for guidance and format for Other Direct Expenses

Other Direct Expenses

- Basically the Same as CPFF & Specified Rate

Miscellaneous ODEs

Does Not Apply
To Lump Sum



Example List of Other Direct Expenses

OTHER DIRECT EXPENSES			
Type	Unit	Fixed Cost	Maximum Cost
Sound Technican for Public Involvement	event		
Public Involvement Facility Rental	event		
Public Involvement Facility Rental (estimate)	XX hours		
Audio - Visual Equipment Rental	event		
Audio - Equipment Rental	each		
Public Notices - Mass Mailing	500		
Desktop & Microcomputer w/Plotter	hour		
Microstation CADD System w/Plotter	hour		
Robotic Total Station	day		
Boat with Motor	day		
GPS RTK	hour		
GPS Static	hour		
Map Records	sheet		
Certified Deed Copies	sheet		
Deed Copies	sheet		
Aerial Film Scanning	per frame		
Aerial Turns	each		
Aerial Turns	mile		
Cross Country	mile		
Mobilization Fee	each		
Film	linear foot		
Photographs	mile		
Flight Line	mile		

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NOTE: For Cost Plus Fixed Fee, Specified Rate, and Unit Cost - Miscellaneous other direct expenses up to \$100 per unit will be reimbursed at cost if approved and documented in advance by the TxDOT Project Manager. Miscellaneous other direct expenses of \$100 per unit or more will not be reimbursed unless a supplemental agreement to the contract and work authorization (if WAs are used) has been executed in advance authorizing the miscellaneous other direct expenses. No more than \$2,500 in miscellaneous other direct expenses may be approved by the TxDOT Project Manager over the life of this contract including prime provider and subproviders.

For Lump Sum - This statement does not apply.

Profit not allowed on Other Direct Expenses. Costs included in overhead will not be reimbursed as other direct expenses. **For Cost Plus Fixed Fee, Specified Rate, and Unit Cost** - Unless fixed, actual rates to be billed not to exceed the maximum shown. Documentation such as receipts or usage logs for other direct expenses are necessary for reimbursement. **For Lump Sum** - No documentation required. Invoicing by physical percent complete includes combination of direct labor and other direct expenses.

Basis for Maximum NTE

- Same as Specified Rate
- Detailed Scope Of Work w/ Deliverables
- Negotiated Level of Effort (Hours)
- Loaded Contract Rates
- Quantities of Other Directs
 - Use Fixed Rate or Approximate Actual Cost

Maximum NTE = Lump Sum

Prime Provider		Staffing Categories	
		Specified (Contract) Rates by Category (\$)	
Project Tasks Based On Scope of Work		Hours or Level of Effort	
Defined By Function Codes			
		Total Labor (\$)	
Other Directs	Unit Costs	Other Directs	+ OD Cost (\$)
Travel	\$/unit		+ Sub A (\$)
Per diem	\$/unit		+ Sub B (\$)
Other Items	\$/unit		Fair and Reasonable Cost (\$)
		Lump Sum	

Maximum NTE = Lump Sum

When do we pay?

How much do we pay?

Lump Sum Payment

TxDOT and the Consultant
Need to Know What Triggers a
Payment and for What Amount

Basis of Payment

Payment Type	Labor/OH/Profit		Other Direct Expenses		Basis
Cost Plus Fixed Fee	Actual Hours	Actual Plus OH & Profit	Actual Quantities	Fixed or Actual	Progress
Specified Rate		Specified (Loaded)			
Lump Sum	Interim/Final Deliverables (*)				Performance
Unit Cost	Actual Unit	Unit Cost	Actual Quantities	Fixed or Actual	

(*) Requires a table of deliverables that defines each deliverable and the corresponding percentage or dollar amount that the deliverable represents.

Table of Deliverables

- Identify Interim and Final Deliverables
- Identify Corresponding Dollar Amounts
- Deliverables Should Correspond to the Scope of Work
- Each Deliverable Description Should Be Distinguishable From Another

Table of Deliverables

- Develop in Coordination With the Consultant
- Provide for Acceptable Invoicing Frequency
- Dates Are Not Required
- All Deliverables Are Not Expected to be Useable/Final Work Products
- Interim Deliverables Provide Proof of Work Performed

Best Example To-Date

WAs Used

Contract No.

ATTACHMENT E – FEE SCHEDULE

Final Cost Proposal (FCP) Supporting Basis of Payment

* The **MAXIMUM AMOUNT PAYABLE** is \$6,131,722.46.

The maximum amount payable is based on the following data and calculations:

Payment based upon TxDOT's acceptance of deliverable

Activity	Deliverable	Payment
PHASE 1		
Notice to Proceed (6/18/2007) Project Administration/Coordination Begin Data Collection Secure Right of Entry	Project Kick-Off / DCC Meeting Minutes	\$ 10,789.16
	Project Coordination Meeting Minutes	\$ 16,943.21
	Preliminary Right of Entry Letters	\$ 20,329.91
Project Administration/Coordination Continue Data Collection through Field Reconnaissance Begin Alternatives Analysis Begin Project Database & Public Involvement Plan	Electronic Progress Submittal of Working Drawings	\$ 44,183.34
	Ascii File of Points Collected	\$ 20,329.91
	Public Involvement Plan & Project Database	\$ 6,276.00
Project Administration/Coordination Continue Alternatives Analysis Continue DSR & Criteria Forms Set Primary and Sec. Control Impact Evaluation Report	Electronic Progress Submittal of Working Drawings	\$ 44,183.33
	Right of Entry Status Documentation	\$ 13,553.27
	Impact Evaluation Report	\$ 12,128.00
Project Administration/Coordination Continue Alternatives Analysis Complete DSR & Criteria Forms Survey Existing ROW	Design Criteria Form	\$ 12,348.71
	Design Summary Report	\$ 25,071.62
	Constraints Map	\$ 13,432.00
	Ascii File of Points Collected	\$ 27,106.55
Project Administration/Coordination Continue Alternatives Analysis Prepare Public Involvement Plan Develop Project Database Gather Topographic Data Archaeological Report	Electronic Progress Submittal of Working Drawings	\$ 35,703.61
	Control Monument Data Sheets	\$ 20,329.91
	Archaeological Report	\$ 21,575.00
Project Administration/Coordination Continue Alternatives Analysis Prepare Plan View Exhibits Public Involvement Plan Prepare ROW Maps	Draft Technical Memorandum	\$ 26,887.00
	Electronic Progress Submittal of Working Drawings	\$ 35,703.62
	Prel. ROW Data	\$ 13,553.27

WAs Used

Contract No.

Activity	Deliverable	Payment
Project Administration/Coordination Continue Alternatives Analysis Develop Project Database Existing Utility Mapping	Electronic Progress Submittal of Working Drawings	\$ 35,703.61
	Ascii File of Points Collected	\$ 6,776.64
	Existing Utility Mapping	\$ 18,925.00
Project Administration/Coordination Complete Alternatives Analysis Finalize Technical Memorandum Complete Evaluation Matrix Correct ROW Maps Draft Traffic Analysis Results	Plan View Exhibits	\$ 17,851.81
	Technical Memorandum	\$ 4,462.95
	Evaluation Matrix	\$ 13,388.85
	Preliminary Topo Data	\$ 6,776.64
Project Administration/Coordination Evaluate Existing ROW and Survey Data Correct Topo Data	Draft Traffic Analysis Results	\$ 51,432.00
	Electronic Progress Submittal of Working Drawings	\$ 17,656.01
Project Administration/Coordination Begin Alternatives Analysis Begin Project Database & Public Involvement Plan	Final Survey Data	\$ 6,776.65
	Draft LOS Report	\$ 28,384.00
	Electronic Progress Submittal of Working Drawings (Alignment/Cogo Geopak Information)	\$ 76,899.08
Project Administration/Coordination Begin Preliminary Schematic Geometric Schematic Preliminary Structural Layout Traffic Analysis	LOS Report	\$ 19,146.00
	Electronic Progress Submittal of Working Drawings	\$ 64,729.20
Continue Preliminary Schematic Preliminary Cross-Sections Prepare Data for VE Study Drainage Analysis Guide Signing Schematic Traffic Analysis	VE Study Preparation	\$ 12,169.88
	2D Traffic Model Animation	\$ 20,370.00
	Electronic Progress Submittal of Working Drawings	\$ 66,489.48
Project Administration/Coordination Preliminary Cost Estimate Value Engineering Study Preliminary Schematic Public Meeting Summaries	VE Study	\$ 10,409.60
	Historic Resources Survey Report	\$ 11,230.00
	Preliminary Schematic	\$ 58,912.73
Project Administration/Coordination Submit 60% Schematic Begin Design Schematic Preliminary Draft EA	Cost Estimate	\$ 9,651.52
	Public Meeting Summaries	\$ 11,286.44
	Preliminary Draft EA	\$ 43,404.00
	Electronic Progress Submittal of Working Drawings	\$ 60,688.49
Continue Environmental Document Draft Complete Revisions to Schematic VE Revisions to Schematic	Revised Preliminary Draft EA	\$ 23,372.00

Best Example To-Date

WAs Used

Contract No.

Activity	Deliverable	Payment
Project Administration/Coordination Continue Environmental Document Draft Complete 90% Schematic	Electronic Progress Submittal of Working Drawings	\$ 60,688.50
	Draft EA (ENV)	\$ 18,664.00
Project Administration/Coordination Review and Respond to Schematic Revisions	Electronic Progress Submittal of Working Drawings	\$ 60,688.50
	Revised Draft EA (FHWA)	\$ 9,383.00
Project Administration/Coordination Cost Estimate Final Schematic Draft EA Document	Design Schematic	\$ 25,005.23
	Cost Estimate	\$ 9,651.52
	Draft EA Document	\$ 2,951.62
	Public Meeting Summaries	\$ 11,286.44
Project Administration/Coordination EA Revisions Begin Final EA Document	Electronic Progress Submittal of Working Drawings	\$ 13,543.83
	Draft Final EA Document	\$ 4,593.00
Project Administration/Coordination Complete Revised EA Document Utility Project Notification	Revised EA Document	\$ 13,543.83
	Utility Project Notification	\$ 15,487.00
Project Administration/Coordination Begin Public Hearing Summary	Electronic Progress Submittal of Working Drawings	\$ 17,959.64
	Final EA Document	\$ 2,951.62
Project Administration/Coordination Continue Public Hearing Summary Report	Electronic Progress Submittal of Working Drawings	\$ 20,911.26
Project Administration/Coordination Environmental Document Preparation Complete Public Hearing Summary Report	Public Hearing Summary	\$ 18,246.65
	Final Design Directory (Phase 1)	\$ 10,319.04
PHASE 2		
Project Administration/Coordination (Begin Phase 2) Begin Data Collection Begin PS&E Preliminary Cross-Sections	Right-Of-Entry Database Electronic Progress Submittal of Working Drawings (Pre. Cross Sections)	\$ 59,298.19
Project Administration/Coordination Continue Data Collection PS&E - Typical Sections Title, Index, and Plan Profile Sheets Begin Soil Survey	Electronic Progress Submittal of Working Drawings (Typical Sections, Plan Profile Sheets)	\$ 79,992.52
	Preliminary Right of Entry Letters	\$ 29,600.00
	Utility Clearance Documentation Wincore Logs	\$ 28,730.00

WAs Used

Contract No.

Activity	Deliverable	Payment
Project Administration/Coordination Continue Data Collection Traffic Signal Warrant Analysis PS&E - Drainage Analysis Plan Profile Sheets Continue Soil Survey Set Primary Control	Electronic Progress Submittal of Working Drawings (Drainage, Plan Profile Sheets)	\$ 122,873.53
	Right of Entry Letters	\$ 30,700.00
	Soil Borehole Locations	\$ 5,604.56
	Wincore Logs w/ Laboratory Data	\$ 18,935.00
Continue Data Collection Traffic Signal Warrant Report PS&E - Storm Drainage Master Plan Plan Profile Sheets Geotechnical Report Gather Survey Data Boundary	Electronic Progress Submittal of Working Drawings (Drainage, Plan Profile Sheets)	\$ 112,252.09
	Illumination Warrant Report	\$ 3,766.50
	Traffic Signal Warrant Report	\$ 3,766.50
	Control Monument Data Sheets	\$ 30,800.00
	Draft Geotechnical Report	\$ 10,658.00
Complete Updated DSR PS&E - Culvert Design Plan Profile Sheets Final Geotechnical Report Preparation Gather Survey Data Boundary	Electronic Progress Submittal of Working Drawings (Drainage)	\$ 119,785.08
	Updated DSR	\$ 2,418.49
	File of Points Gathered	\$ 35,500.00
	Final Geotechnical Report	\$ 2,558.00
PS&E - Traffic Control Plan Plan Profile Sheets Gather Topo Data	Electronic Progress Submittal of Working Drawings (TCP, Plan Profile Sheets)	\$ 94,828.58
	File of Points Gathered	\$ 35,300.00
PS&E - Intersection Layouts Plan Profile Sheets Traffic Control Plan Gather Topo Data	Electronic Progress Submittal of Working Drawings	\$ 94,828.58
	Preliminary Working Sketch	\$ 33,100.00
PS&E - Plan Profile Sheets Utility Conflicts and Exhibits ROW Maps Set Pre. Boundary Points	Electronic Progress Submittal of Working Drawings (Utility Exhibits, Plan Profile Sheets)	\$ 113,062.84
	Preliminary Topo Data	\$ 36,500.00
PS&E Utility Exhibits Plan Profile Sheets ROW Maps Set Pre. Boundary Points	Electronic Progress Submittal of Working Drawings (Utility Exhibits, Plan Profile Sheets, ROW Maps)	\$ 66,417.80
	Final Working Sketch	\$ 30,210.35
PS&E Cost Estimate ROW Maps Retaining Wall Design Set Final Boundary Points	Electronic Progress Submittal of Working Drawings (ROW Maps and Estimate)	\$ 71,083.26
	Final Topo Data	\$ 28,700.00

Best Example To-Date

WAs Used

Contract No.

Activity	Deliverable	Payment
PS&E Cost Estimate Design Contract Schedule ROW Maps Retaining Wall Design Prepare Survey Data	Electronic Progress Submittal of Working Drawings (ROW Maps, Schedule and Estimate)	\$ 105,076.65
	Survey Report	\$ 24,900.00
30% PS&E Submission ROW Maps Parcel Plats and Legal Descriptions	Electronic Progress Submittal of Working Drawings	\$ 12,178.71
	30% PS&E Submission	\$ 101,257.07
	Draft ROW Maps	\$ 8,890.99
	Parcel Plats and Legal Descriptions	\$ 24,300.00
PS&E Final Typical Sections Preliminary Roadway and Drainage Quantities	Electronic Progress Submittal of Working Drawings (Revisions and Typ. Sections)	\$ 78,160.11
PS&E Final Drainage Analysis Final Plot of Survey Data	Electronic Progress Submittal of Working Drawings (Drainage)	\$ 97,775.06
	Correct Final Survey Data	\$ 25,409.00
PS&E Final Drainage Analysis	Electronic Progress Submittal of Working Drawings (Drainage)	\$ 94,530.06
PS&E Final Culvert Layout Final Bridge and Bridge Class Culvert Layout	Electronic Progress Submittal of Working Drawings (Culverts and Bridges)	\$ 27,322.71
	Bridge Layout	\$ 41,948.17
	Bridge Class Culvert Layout	\$ 41,948.17
PS&E Final Retaining Wall Design Final Traffic Control Plans	Electronic Progress Submittal of Working Drawings (Ret. Walls)	\$ 118,235.59
PS&E Final Traffic Control Plans Roadway and Drainage Summary Sheets Final Retaining Wall Design	Electronic Progress Submittal of Working Drawings (TCP and Summary Sheets)	\$ 152,228.98
PS&E Preliminary Signing and Pavement Markings Design Preliminary Illumination and Signal Layouts (Temporary) Final Traffic Control Plans	Electronic Progress Submittal of Working Drawings (Pavement Markings and Illumination)	\$ 120,930.92
PS&E Preliminary Illumination and Signal Layouts (Permanent) Title and Index Sheets	Electronic Progress Submittal of Working Drawings (Illumination)	\$ 86,984.48

WAs Used

Contract No.

Activity	Deliverable	Payment
PS&E Utility Exhibits Cross-Sections Cost Estimate Preliminary Signing and Pavement Markings Design	Electronic Progress Submittal of Working Drawings (Cross-Sections, Estimate and Utilities)	\$ 117,420.36
PS&E Utility Exhibits Final ROW Documents Cost Estimate Preliminary Signing and Pavement Markings Design	Electronic Progress Submittal of Working Drawings (Utility, ROW, and Estimate)	\$ 117,420.36
PS&E Design Contract Schedule	Electronic Progress Submittal of Working Drawings (Construction Timeline and Contract Schedule)	\$ 76,538.11
Preliminary Construction Timeline Summary 60% PS&E Submission Preparation	60% Submission	\$ 81,565.24
	Final ROW Documents	\$ 3,702.30
	Electronic Progress Submittal of Working Drawings	\$ 12,178.71
PS&E 60% Submittal Revisions Resolve Utility Conflicts	Electronic Progress Submittal of Working Drawings (Utility)	\$ 50,306.41
PS&E Resolve Utility Conflicts Final Drainage Analysis	Electronic Progress Submittal of Working Drawings (Utility and Drainage)	\$ 103,914.76
PS&E Final Drainage Analysis Final Signing and Pavement Markings Design	Electronic Progress Submittal of Working Drawings (Drainage and Pavement Markings)	\$ 129,240.45
PS&E Final Retaining Wall Design Final Traffic Control Plans	Electronic Progress Submittal of Working Drawings (TCP and Retaining Walls)	\$ 122,175.59
PS&E Final Bridge Design Final Traffic Control Plans	Electronic Progress Submittal of Working Drawings (Bridge and TCP)	\$ 139,210.88
PS&E Final Bridge Design Final Illumination Plans SW3P Plans	Electronic Progress Submittal of Working Drawings (Bridge and Illumination)	\$ 170,463.42
PS&E Final Bridge Design SW3P Plans	Electronic Progress Submittal of Working Drawings (Bridge and SW3P)	\$ 147,575.02
PS&E Final Bridge Design Final Miscellaneous Roadway Details SW3P Plans	Electronic Progress Submittal of Working Drawings (Bridge and Misc. Details)	\$ 147,575.02

Best Example To-Date

WAs Used

Contract No.

Activity	Deliverable	Payment
PS&E Final Bridge Design Design Contract Schedule	Electronic Progress Submittal of Working Drawings (Bridge and Design Contract Schedule)	\$ 132,080.80
PS&E Final Bridge Design Final Quantities Title and Index Sheets 90% Submittal Preparation	Electronic Progress Submittal of Working Drawings (Bridge and Quantities)	\$ 139,257.84
PS&E Final Cost Estimate Final Quantities Construction Timeline	Electronic Progress Submittal of Working Drawings (Construction Timeline, Quantities, and Cost Estimate)	\$ 92,093.56
Final Cost Estimate General Notes and Specifications 90% PS&E Submission	90% Submission	\$ 62,182.12
	Electronic Progress Submittal of Working Drawings (Cost Estimate and General Notes)	\$ 29,067.20
PS&E 90% Submittal Revisions Update Quantities	Electronic Progress Submittal of Working Drawings (Revisions and Quantities)	\$ 64,716.11
PS&E Cost Estimate General Notes and Specifications	Electronic Progress Submittal of Working Drawings (Estimate and General Notes)	\$ 47,611.20
PS&E 100% Submittal Preparation Cost Estimate General Notes and Specifications	Electronic Progress Submittal of Working Drawings (Estimate and General Notes)	\$ 47,611.20
PS&E Sheet Index	Electronic Progress Submittal of Working Drawings (Sheets Index)	\$ 39,954.01
PS&E 100% Submission	100% Submission	\$ 29,152.42
	Electronic Progress Submittal of Working Drawings	\$ 12,178.71
PS&E 100% Submittal Revisions	Electronic Progress Submittal of Working Drawings (Revisions)	\$ 46,172.11
	Construction Schedule	\$ 15,836.00
Final PS&E Submission Final Design Directory Project Notebook	Mylar Submission	\$ 11,651.22
	Electronic Design Directory (Phases 1 & 2)	\$ 46,172.12
Total MSF-V Amount		\$ 6,131,564.46

See the attached sheets for rate and fee schedules.

- The maximum amount payable must be based on the contract scope. The work authorization fee schedules will be derived from this attachment.

Could Be Better

COULD BE BETTER

EXHIBIT C

Lump Sum Payment Schedule

Payment is dependent upon TxDOT's acceptance of defined deliverable. Invoice is not to exceed percentage identified by defined deliverable.

Date (this column optional)	Percent Complete	Activity	Deliverable
3/26/07	0%	Notice to Proceed	None
04/07	3%	Kick-off Meeting and DCC	DSR and meeting minutes
05/07	5%	Establish Control and BM's and spot topo	Status set of field notes
	10%	Preliminary P&P Sheets & Project Administration	Status Plan Set
06/07	15%	Preliminary P&P / Drainage Sheets & Project Administration	Status Plan Set
07/07	20%	Preliminary P&P / Drainage/ Layout Sheets & Project Administration	Status Plan Set
08/07	25%	Preliminary P&P / Drainage/ Layout Sheets & Project Administration	Status Plan Set
09/07	30%	30% Plan Submittal and Workshop	30% Review Plans
10/07	35%	P&P/ Drainage/ Layout Sheets & Project Administration	Status Plan Set
11/07	38%	P&P/ Drainage/ Layout Sheets & Project Administration	Status Plan Set
12/07	42%	P&P/ Drainage/ Layout Sheets & Project Administration	Status Plan Set
01/08	45%	P&P/ Drainage/ Layout/ Signing Sheets & Project Administration	Status Plan Set
02/08	49%	P&P/ Drainage/ Layout/ Signing Sheets & Project Administration	Status Plan Set
	52%	Submit Bridge and Wall Layouts	Layout Review Plans.
03/08	56%	Quantities / Specs / Estimates & Project Administration	Status Plan Set
04/08	60%	60% Plan Submittal and Workshop	60% Review Plans
05/08	65%	Preparation of construction plans & Project Administration	Status Plan Set
06/08	70%	Preparation of construction plans & Project Administration	Status Plan Set
07/08	75%	Preparation of construction plans & Project Administration	Status Plan Set
08/08	80%	Preparation of construction plans & Project Administration	Status Plan Set
08/08	85%	Preparation of construction plans & Project Administration	Status Plan Set

COULD BE BETTER

09/08	95%	Final Plans, Specs, and Estimate & Project Administration (95% Submittal)	Final plans, specs, and estimate
	96%	Preparation of construction plans, Utility Agreement Exhibits	Utility Agreement Exhibits
10/08	97%	Incorporate Comments & Project Administration	Status Set of Revisions
11/08	98%	Incorporate Comments & Project Administration	Status Set of Revisions
12/08	99%	Incorporate Comments & Project Administration	Complete Plans With Comments Addressed
01/09	99%	None anticipated	None Anticipated
02/09	99%	None anticipated	None Anticipated
03/09	99%	None anticipated	None Anticipated
04/09	100%	Final Plan Submittal & Project Administration	Complete Plans With Division Comments Addressed

Lump Sum Payment

- May Not Be Exactly Monthly
- Invoicing/Payment is Based on Deliverables
- Amounts Pre-determined by Table of Deliverables
- TxDOT Expected to Conduct Timely Reviews

Lump Sum

- Minimizes Risk of Paying Towards Incomplete Work
- Financial Percent Complete - Equals - Physical Percent Complete

Lump Sum - Invoice

- Detailed Progress Report
- Indication Of Work Completed As Defined In The Table of Deliverables And Approved By TxDOT
- Percent Invoiced That Corresponds To Work Completed/Submitted/Approved
- H-Forms

Unit Cost

Unit Cost – Materials Eng

- Typically By Provider
- Supplemental Agreement Required to Change

Example Rate Schedule - Materials Engineering

UNIT COST PAYMENT BASIS

Contract # XX-ZZZP000X

PRIME OR SUBPROVIDER NAME: _____

Direct Labor

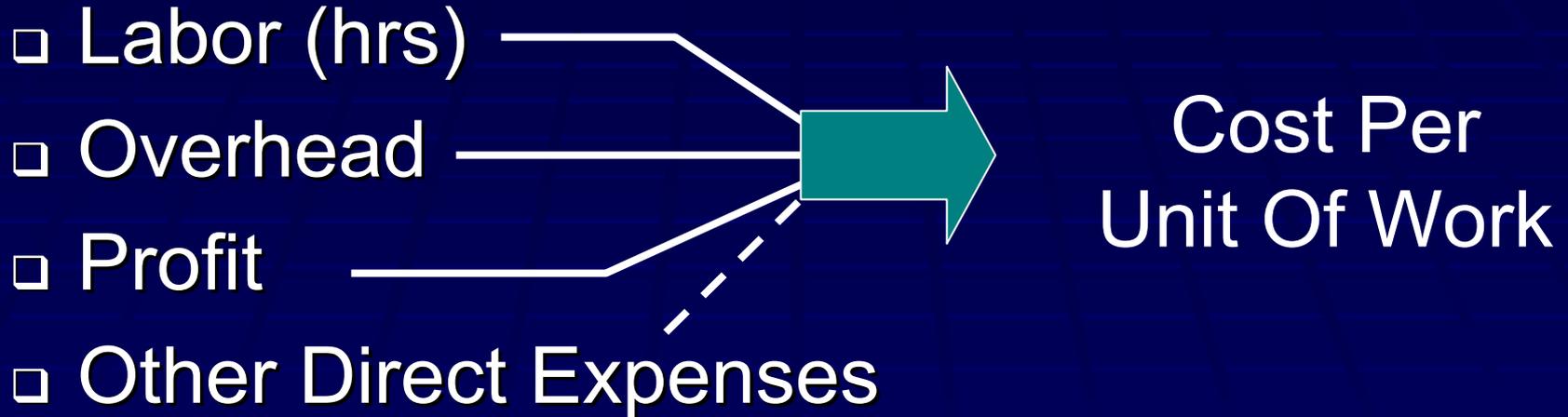
Services to be Provided	Test Code	Unit	Cost FY XX	Cost FY XX
Field Drilling Services				
Sampling		test	\$XX.XX	\$XX.XX
Standard Penetration Test	ASTM D1586	test	\$XX.XX	\$XX.XX
Shelby Tube	ASTM D1587	test	\$XX.XX	\$XX.XX
Texas Cone Penetrometer test (THD)	TEX-132-E	test	\$XX.XX	\$XX.XX
Concrete/AC Patch		patch	\$XX.XX	\$XX.XX
Geotechnical Lab Testing Services				
Dry Unit Weights	TEX-404-A	test	\$XX.XX	\$XX.XX
Soil pH	TEX-128-E	test	\$XX.XX	\$XX.XX
Resistivity of Soil Material	TEX-129-E	test	\$XX.XX	\$XX.XX
Determination of Moisture Content in Soils	TEX-103-E	test	\$XX.XX	\$XX.XX
Method of Calculating Plasticity Index of Soil Test	TEX-106-E	test	\$XX.XX	\$XX.XX
Determination of Shrinkage Factors of Soil Test	TEX-107-E	test	\$XX.XX	\$XX.XX
Determination of Specific Gravity of Soils Test	TEX-108-E	test	\$XX.XX	\$XX.XX
Determination of Particle Size Analysis of Soils Text (Part 1)	TEX-110-E	test	\$XX.XX	\$XX.XX
Determination of Particle Size Analysis of Soils Text (Part 2)	TEX-110-E	test	\$XX.XX	\$XX.XX
Determination of Moisture Density Relations of Soils and Base	TEX-113-E	test	\$XX.XX	\$XX.XX
Ball Mill Method for Determination of Disintegration of Flex. Base	TEX-116-E	test	\$XX.XX	\$XX.XX

The unit costs shown include labor, overhead, and profit. Payment based on units completed. No partial payments. All rates are negotiated rates and are not subject to change or adjustment.

Other Direct Expenses

See the separate file for guidance and format for Other Direct Expenses

Unit Cost



Information Is Not Available To Evaluate Labor, Overhead, And Profit Rates Separately

Unit Cost – Materials Eng

Labor - Overhead - Profit

- Unit Costs Come Loaded
- Identify All Anticipated Work Items/Tests
- Know What They Do and Don't Include

Other Direct Expenses

- Same as CPFF & Specified Rate

Basis for Maximum NTE

- Detailed Scope Of Work w/ Deliverables
- Number of Units
- Loaded Unit Costs
- Quantities of Other Directs
 - Use Fixed Rate or Approximate Actual Cost

Unit Cost - Invoice

- Detailed Progress Report
- Summary Of Units Of Work With Unit Costs
- Other Direct Expenses - With Back-Up
- Subprovider Invoices In Similar Format
- H-Forms

Unit Cost

For Other Repetitive Tasks

Payment Type Distribution

(2002-2006 Contracts)

Payment Type	Percent of Contracts	Dollar-Value (\$Million)	Percent of Dollar-Value
Cost Plus FF	14%	\$374	19%
Lump Sum	28%	\$456	24%
Specified Rate	34%	\$389	20%
Unit Cost	12%	\$96	5%
Various	12%	\$609	32%

Payment Type Selection

- Hundreds of Contracts Per Year
- Thousands of Work Authorizations Per Year
- No Two Projects Are The Same
- No One Payment Type Is Best

Contact Information

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Questions?