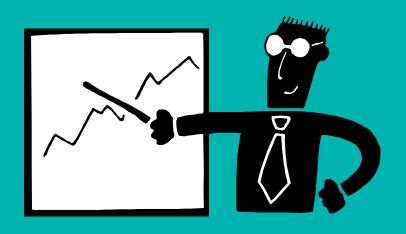


# Not a hands-on EBASE class!

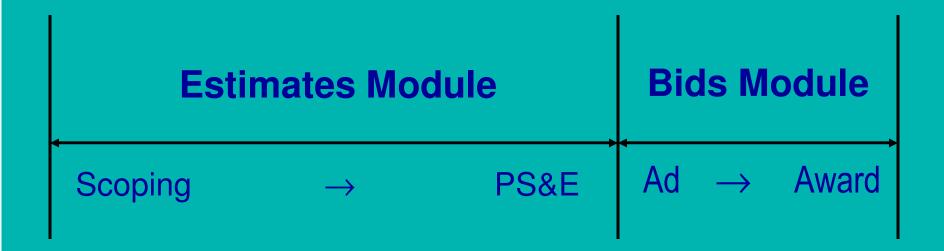
 Strategies and data needed for successful estimate preparation



- For hands-on EBASE training contact:
  - Region Plans or Plan Review Office
  - HQ Plans Office

#### What is EBASE?

Estimates and Bid Analysis System



# **EBASE Reports**

- ✓ **Proposal** (to Contract Provisions)
- ✓ Preliminary Estimate (to Program Mgmt)
  - Summary Report
  - Fund Report
  - By Group Report
  - By Item Report
  - Work Classification Report
- ✓ Summary of Quantities (to Contract Plans)

# Destroy Sensitive Material Not Required for Your Records



# **EBASE Reports**

How the Engineer's Estimate is Used



Internal and external planholders
use the Summary of Quantities

to grasp the nature and magnitude of the work



Program Managers use
 Preliminary Estimates

to monitor and balance the overall WSDOT Program



Contract Ad & Award uses
 Work Classification Reports

to determine which contractors are eligible to bid on specific contracts



 Accounting uses the Preliminary Estimates to set up

construction phase Work Orders

(aka Contract d

(aka Contract #s)

Pre-qualified Contractors

submit their bids on the

**Proposal Form** 



 Contract Ad & Award identifies the low bid by comparing bids received on the

Proposal Forms
against the
Preliminary
Estimate

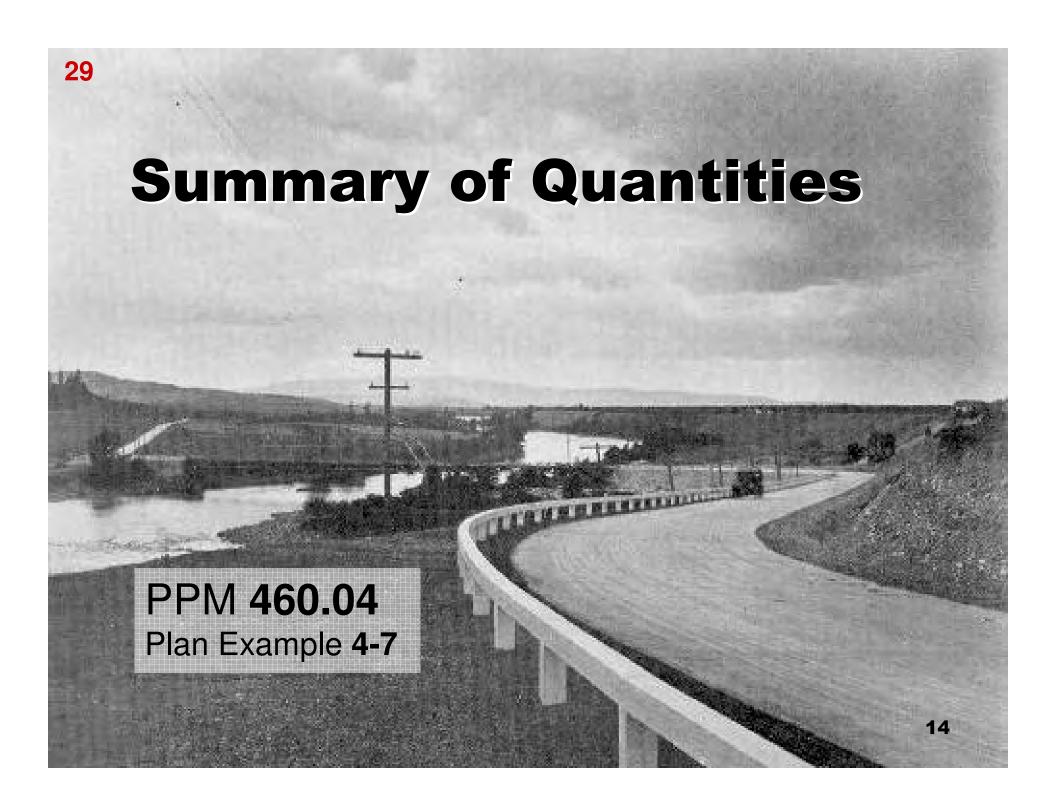
 Project Offices compare bids in the Bid Check Report

against the

**By Item Report** 

to justify award or rejection of bids over 10% or \$50K





#### **Plans**

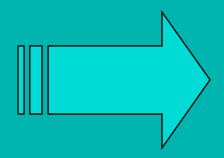
**Profiles** 

# Where Contract Bid Items Come From

**Q-Tabs** 

Structure Notes

> Misc Qtys



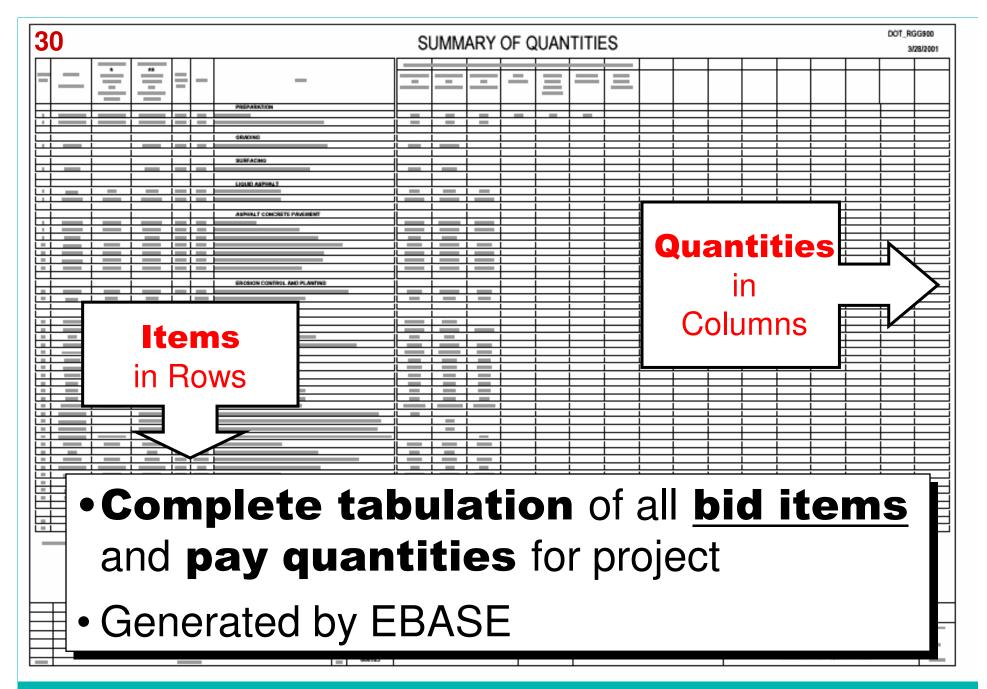
Non-tabulated Qtys
Tables in Plans
Lump Sum Items
Estimated Items
Calculated Items

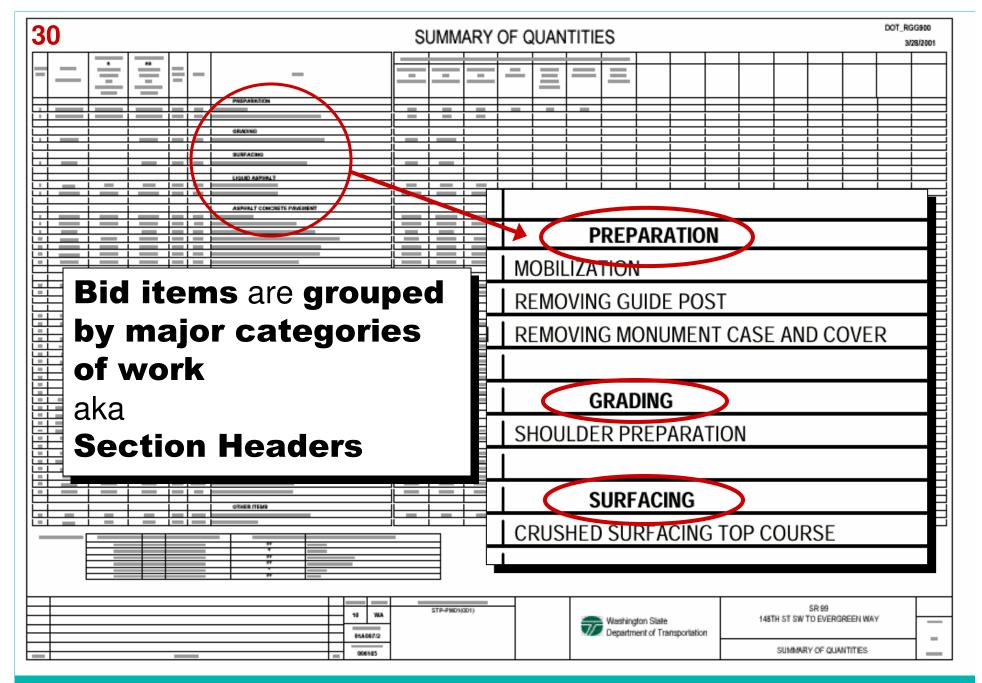
#### **EBASE**

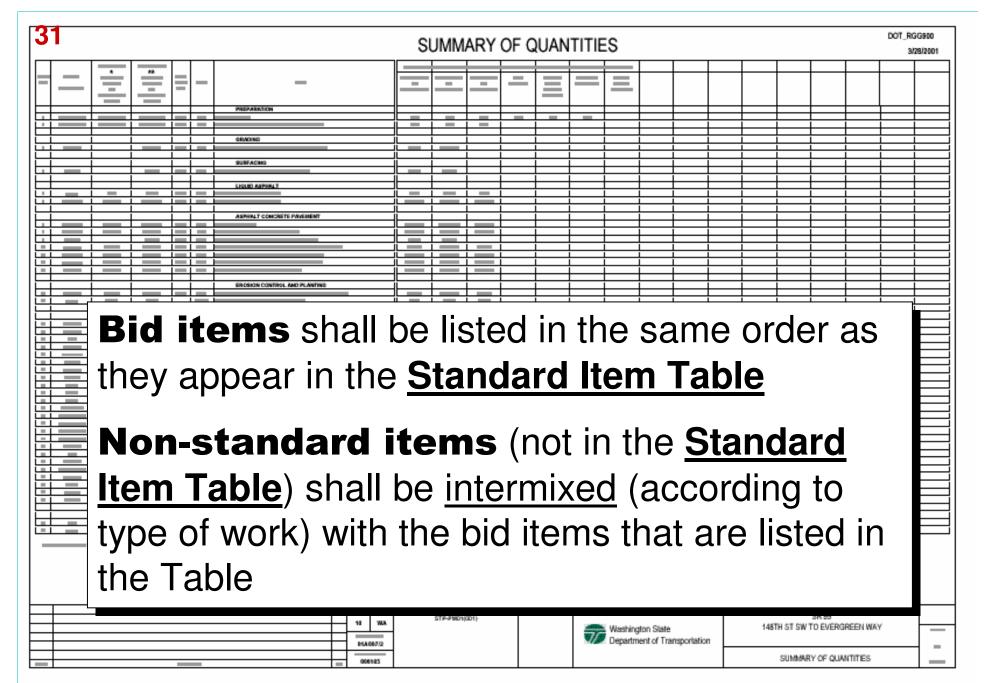
Summary of Qtys

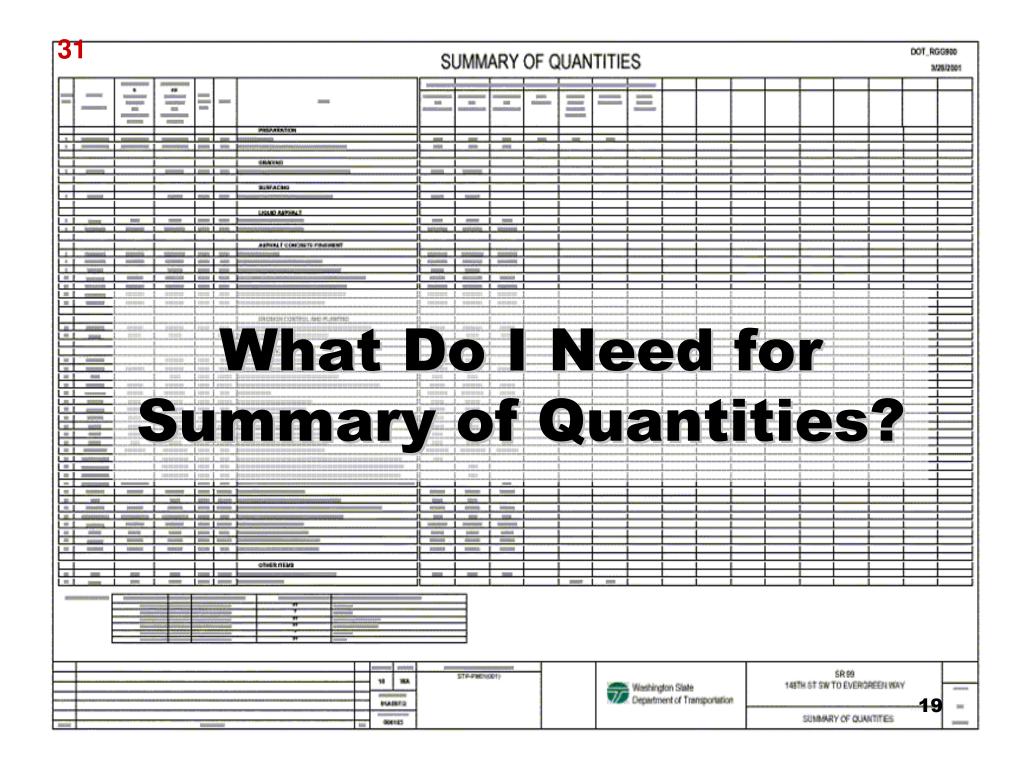


**Proposal** 











Project (WIN)





PIN

Program

Funding Part.

**Control Section** 

3<sup>rd</sup> Party Damage





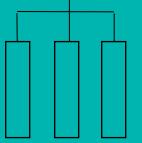


**GROUPS** 

**Work Locations** 







**COLUMNS** 

**Bid Items** 

Non-Bid Items

**ITEMS** 

#### **Fund Sources**

#### Many **sources** of construction funds:

- Private\* (developers, utilities, etc.)
- Local\* (cities and counties)
- Federal (tax dollars)
- State (tax dollars)

\*Requires participation agreement



# **Funding Participation**

#### Participation may be:

- Percentage (eg. 90.66%, 86.5%)

Maximum dollar
 amount expressed
 as 100% expenditure
 (eg. 100% of \$4.2 M)

4 types of participants

# How multi-participant funds are disbursed

Sequence fund expenditure in this order:

- 1. Private \$\$ spend first (often a maximum amount)
- 2. Local \$\$ spend next (sometimes a maximum amount)
- 3. Federal \$\$ next (generally a percentage)
- **4. State \$\$ last** (always 100%)

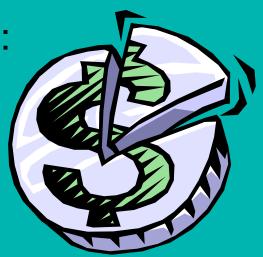


# How multi-participant funds are disbursed

**Example:** Project includes <u>federal interstate</u> <u>maintenance funds</u>, <u>state funds</u>, <u>\$4.2 M</u> <u>developer</u> mitigation, and <u>City participation of</u> <u>\$1 M.</u>

Set Fund up in this spending order:

- 1. Developer @ \$4.2 M maximum
- 2. City @ \$1.0 M maximum
- 3. Federal IM @ 90.66%
- **4. State** @ 100% (of remainder)



Project (WIN)



#### **FUNDS**

PIN

Program

Funding Part.

**Control Section** 

3<sup>rd</sup> Party Damage







**GROUPS** 

GROUP 1	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
STA 351+27 TO STA 367+87	STA 392+09 TO STA 463+48	STA 507+60 TO STA 526+36	PSE SNO CO	ALDER- WOOD WATER SNO CO	VERIZON EVERETT	THIRD PARTY DAMAGE

Non-Bid Items

PPM 460.04

### **Group Rules**

A **Group** is required for each:

- 1. Program Item Number (PIN)
- 2. Program-Subprogram (P1, P2, I1, I2, etc.)
- 3. Fund-Source-Participation Rate Change
- 4. 6-digit Control Section
- 5. Third Party Damage (1 per contract)

Project (WIN)

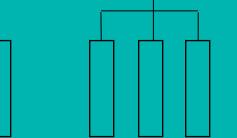


#### **FUNDS**

\_\_\_\_

GROUP 1	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
STA 351+27 TO STA 367+87 SECTION 1	STA 392+09 TO STA 463+48 SECTION 2	STA 507+60 TO STA 526+36 SECTION 3	PSE SNO CO	ALDER- WOOD WATER SNO CO	VERIZON EVERETT	THIRD PARTY DAMAGE

**Work Locations** 





**Bid Items** 

Non-Bid Items

**ITEMS** 

PPM 460.04

#### Column Rules

- Must have a minimum of 1
   column per group (usu. Roadway work)
- Every column shall be assigned to a group

GROUP 1	GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
STA 351+27 TO STA 367+87 SECTION 1	STA 392+09 TO STA 463+48 SECTION 2	STA 507+60 TO STA 526+36 SECTION 3	PSE SNO CO	ALDER- WOOD WATER SNO CO	VERIZON EVERETT	THIRD PARTY DAMAGE
Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7

**PPM 460.04** 

### Column Rules

#### A **Column** is required for each:

- ✓ Bridge<sup>+</sup>
- ✓ Wall+
- ✓ State furnished Pit

<sup>+</sup>Unless tabulated separately in the Plans

### SUMMARY OF QUANTITIES

		GROUP 1	GROUP 1	GROUP 1	GROUP 1	GROUP 1	GROUI
ITEM	SR77 49+00.00 TO 70+85.00	DB6 LINE 9+00.00 TO 29+85.00	MC-N LINE 10+00.00 TO 17+18.64	MC-S LINE 10+00.00 TO 13+59.65	W-NS LINE 10+00.00 TO 17+74.53	NS-W LINE 9+00.00 TO 18+19.15	BRIDO NO. 77/11
PREPARATION							
DBILIZATION	LS.	1.5	LS.	LS	1.5	LS	LS.
EARING AND GRUERING	0.90	4.20	1.00	0.40	1.20	1.00	
MOVING DRAINAGE STRUCTURE	1.00	51.0(0)	at about some some some some some some some some	and many dozen drawn drawn dozen drawn dra	DOC COME COME COME COME COME COME COME CO	et doord danse	000 0000 0000 0000 0000 0000 0000 0000 000
EMOVING ASPHALT CONC. PAVEMENT	5,679.00	3,057.00	5,219.00	2,238.00	221.00		
MOVING GUARDRAIL			580.00			170.00	
EMOVING GUARDRAIL ANCHOR			2.00			1.00	
MOVING MISCELLANEOUS TRAFFIC ITEM	LS.	LS	LS.	L.S.			
MOVING WIRE FENCE		150.00			200.00		
	PREPARATION  BILIZATION  EARING AND GRUBBING  MOVING DRAINAGE STRUCTURE  MOVING ASPHALT CONC. PAVEMENT  MOVING GUARDRAIL  MOVING GUARDRAIL ANCHOR  MOVING MISCELLANEOUS TRAFFIC ITEM  MOVING WIRE FENCE	PREPARATION  EILIZATION  EARING AND GRUBBING  MOVING DRAINAGE STRUCTURE  MOVING ASPHALT CONC. PAVEMENT  MOVING GUARDRAIL  MOVING GUARDRAIL ANCHOR  MOVING MISCELLANEOUS TRAFFIC ITEM  MOVING WIRE FENCE	### ### ### ### ### ### ### ### ### ##	PREPARATION   LS.   LS	### PREPARATION ####################################	### PREPARATION    PREPARATION   LS.   LS.	### AP\$   \$\frac{1}{70+85.00} \begin{pmatrix} 9+00.00 & 10+00.00 &

**Bid Items** 

Non-Bid Items



#### Bid vs. Non-Bid Items

**Bid Item** 

Work performed by **Contractor** 

Non-Bid Item
or
Below the Line
Item

Material or work charged to the contract . . .but. . . not furnished or performed by Contractor