



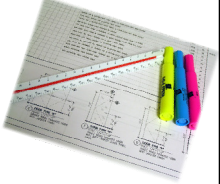


ESTIMATING AND BIDDING WORKSHOP



Hosted by
M Squared Engineering, LLC
 on behalf of
**The Illinois Department of Transportation –
 Office of Business and Workforce Diversity**
 March 29, 2012


Introductions





- Presenters:
 - Vinu Patel
 - Minal Hahm, PE, CFM
- Attendees – Welcome and introduce around the room
 - Name / Title
 - Company
 - How can we help you today?

Miscellaneous Announcements





- Cell phones
- Format for today
 - Casual – questions can be asked throughout
 - Will have a brief break half-way through
- Pre-requisite
 - Attendees understand DOT website
 - Good understanding of reading plans and specifications
 - If not – we'll work through it and follow up with more detail at a later date.



Workshop Goals

- Discuss IDOT's new bidding process for DBEs.
- Locate bidding and letting information on the IDOT website.
- Assist you with reading plans and specifications.
- Learn to develop unit prices.
- Bid assisting, bid preparation, and bid submittal.



Lettings

- 7 Lettings per Year (more if there are special Lettings)
- Letting Schedule is published through year 2013
- Plans are posted on website
- Deadlines
 - Prequalification (3 to 4 Weeks before letting date),
 - Joint Ventures (1 to 2 weeks before letting date), and
 - Bid Authorization (3 -4 days before letting date)
 - Letting Date (bid submittal/bid opening date)
- Bids are announced and televised live on IDOT's website on day of letting.

Submit as Prime or Sub-contractor

- Priming Projects Procedure
- Sub-contract on projects
 - Pay Item Report
 - Obtain Bid List of Bidders
 - Not For Bid List of Bidders

March 9, 2012 Letting

March 9, 2012 Letting
 *If You Plan To Submit A Bid Directly To IDOT
 Bid Submittal Guidelines and Checklist *NEW*

The contractor or bidder certifies that all relevant addenda have been incorporated into the procurement contract. Failure to do so may cause the bid to be

"HOW TO" PROC

- Notice of Letting revised 2/28/12
- Addendum / Revision Checklist revised 3/07/12 10:44 a.m.
- CBIDS
- DBE Goals revised 2/27/12
- Final For Bid List of Bidders
- Not For Bid List of Bidders revised 03/08/12
- Pay Item Report updated 2/27/12
- Submitting Electronic Good Faith Efforts

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[About BID TABS](#) [About CBIDS](#) [Tips & Tools](#)

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Pay Item Report (PIR)

PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	PAY ITEM QUANTITY	COUNTY	D O	CONTRACT NUMBER	LETTING ITEM #
#1006771	LTG CONTROLLER DUPLEX	EACH	1,000	KANE	1	60H45	116
#1009912	UNDPS LUM 150W HPS SS	EACH	4,000	KANE	1	60H45	116
AR108158	1/4" #6 5 KV UG CABLE IN UD	L.F.	8,256,000	MONTGOMERY	6	L1032	001A
AR108158	1/4" #6 5 KV UG CABLE IN UD	L.F.	18,500,000	EFFINGHAM	7	EF007	007A
AR108652	3/4" #2 600 V UG CABLE IN UD	L.F.	3,600,000	EFFINGHAM	7	EF007	007A
AR108656	3/4" #6 600 V UG CABLE IN UD	L.F.	1,700,000	EFFINGHAM	7	EF007	007A
AR108706	1/4" #6 COUNTERPOISE	L.F.	1,050,000	DUPAGE	1	DU080	005A
AR109200	INSTALL ELECTRICAL EQUIPMENT	L.S.	1,000	MONTGOMERY	6	L1032	001A
AR110013	3" DIRECTIONAL BORE	L.F.	668,000	EFFINGHAM	7	EF007	007A
AR110014	4" DIRECTIONAL BORE	L.F.	300,000	EFFINGHAM	7	EF007	007A
AR110032	2" PVC DUCT, DIRECT BURY	L.F.	850,000	DUPAGE	1	DU080	005A
AR110501	1-WAY CONC. ENCASED DUCT	L.F.	200,000	DUPAGE	1	DU080	005A
AR110502	2-WAY CONCRETE ENCASED DUCT	L.F.	80,000	MONTGOMERY	6	L1032	001A
AR110810	JUNCTION BOX	EACH	1,000	DUPAGE	1	DU080	005A
AR125410	MIL-STAKE MOUNTED	EACH	12,000	PEORIA	4	MH022	006A
AR125410	MIL-STAKE MOUNTED	EACH	23,000	MONTGOMERY	6	L1032	001A
AR125410	MIL-STAKE MOUNTED	EACH	109,000	EFFINGHAM	7	EF007	007A
AR125415	MIL-BASE MOUNTED	EACH	4,000	MONTGOMERY	6	L1032	001A
AR125416	MIL-BASE MOUNTED	EACH	10,000	EFFINGHAM	7	EF007	007A

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Preparing Bids/Cost Estimates

1. Find bid items appropriate for your company
2. Identify list of projects and filter for your service area
3. Find bidders (primes) pursuing those projects
4. Review plans and specifications for those projects
5. Visit sites if appropriate for your items
6. Prepare cost estimates and submit to primes
7. Follow bid letting

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Finding Possible Primes

- Addendum / Revision Checklist revised 3/07/12 10:44 a.m.
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Bid List of Bidders

 002 CONTRACT: 46205 DISTRICT: 03 COUNTY(IES): VARIOUS
 KEY RT: VARIOUS MARKED RT: VARIOUS
 SECTION: D3 REFLECTOR REPL 12-31

Removal and replacement of damaged raised reflective pavement markers and casting as shown on individual work orders.

3598 M.A.S. Markers, Incorporated
 1625 S 400 E
 Lebanon, IN 46052

3598 ML Group, LLC
 1507 E. 53rd Street #807
 Chicago, IL 60615

3689 Marking Specialists Corporation
 1622 S. Princeton
 P. O. Box 745
 Arlington Heights, IL 60005

4598 P & P Construction Co.
 1132 East Lincoln

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CBIDS (Excel Spreadsheet)

*****CONTRACTOR NUMBER		*****CONTRACT NUMBER		*****CONTRACT NUMBER	
CONTRACTOR NAME*****		CONTRACT NUMBER		CONTRACT NUMBER	
COUNTY(IES)***** LAKE-		SECTION***** 10-00042-00-SW (PARK CITY)		BLANK PRICES 63	
LETTING DATE***** March 9, 2012		ITEM NUMBER***** 64		TOTAL QUANTITY	
*****CONTRACT NUMBER		*****CONTRACT NUMBER		*****CONTRACT NUMBER	
*****_PN	PAY ITEM DESCRIPTION	U OF M	QUANTITY	X UNIT PRICE	TOTAL PRICE
A2000916	T-ACER PLAT	2 EACH	4,000		\$0.00
A2002916	T-CBELTIS OCCID	2 EACH	3,000		\$0.00
B2001616	T-CRAT CRUM TP	2 EACH	5,000		\$0.00
X0200998	PRECONSTRUCT VID TAP	L SUM	1,000		\$0.00
X0222936	REMOVE EX FLAR END SEC	EACH	6,000		\$0.00
X026379	DIRECTIONAL BORING	FOOT	607,000		\$0.00
X2010610	CLEARING & GRUBBING	L SUM	1,000		\$0.00
X4404700	SIDEWALK REM SPL	SO FT	226,000		\$0.00
X7010218	TRAF CONT & PROT SPL	L SUM	1,000		\$0.00
X9040306	ELECT SERV CONNECT	L SUM	1,000		\$0.00
X8300001	LIGHT POLE SPECIAL	EACH	48,000		\$0.00
X8300102	LIGHT POLE FDN SPL	EACH	48,000		\$0.00

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March 9, 2012 Letting

March 9, 2012 Letting


"If You Plan To Submit A Bid Directly To IDOT"

Bid Submittal Guidelines and Checklist *NEW*

enda have been incorporated into the appropriate contract. Failure to do so may cause the bid to be declared unacceptable.

PROCEDURES AND FREQUENTLY ASKED QUESTIONS

- Plans and Proposals
- Audio and Video Webcast
- BDE Manuals, Memoranda and Specifications
- Federal Wage Rates
- Guide to Working with Railroads
- Highway Standards - Rev. 213
- Procurement Reform Web Site
- Special Provision for Disadvantaged Business Enterprise Participation
- State Board of Elections Business Registration
- Steel, Bituminous and Fuel Price Indices



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Individual Plan Sheet Naming Convention for Website:

11x17: 000000 - 99999 - 000 - 999 - 000.pdf


Example Number: 030504-62345-103-150-000.pdf

Example: 030504-62345-103-150-000.pdf

11x17: 030504-62345-103-150-000.pdf

March 9, 2012 Letting
Electronic Plans & Proposals

66283-001	76246-051	85552-101	DIVISION OF AERONAUTICS
66285-002 PUP	76197-052	85553-102 PUP	Funded
66288-003 PUP	76246-053	85555-103	LJ32-016
60M51-004 ADD 02/29/12	76246-054	87478-104	CH080-05A
60P21-005	88516-005 ADD 02/29/12	87595-105	VIH02-06A ADD 30/7/12



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eplan.dot.il.gov - /desenv/030912/60R33-011/

no Parent Directory


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Thursday, February 02, 2012 3:29 PM <dir> PLANS

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Obtaining Bid Documents

13. Contract No. 64540 Whiteside-Lee Counties District 2 **311 Pages (all 8.5x11)**
 Section 31.32/RS
 FAP Route 561 (IL 2) Project ACF-561(30)
 3.72 miles of resurfacing along IL 2 from 40th Avenue in Sterling to 0.2 mile west of Plock Road; includes 215 cu yds earth excavation; 1,396 sq yds erosion control blanket; 1,309 sq yds sub-base granular material; 333 ft concrete curb and gutter; 102 tons leveling binder (hand method); 8,020 tons leveling binder (machine method); 10,163 tons HMA surface course; Mix C; 10,801 tons HMA surface course; Mix D; 137,376 sq yds milling; 543 sq yds patching; 236 tons aggregate wedge shoulder; 333 ft concrete curb and gutter; 32,842 ft shoulder rumble strips; 1,690 ft detector loop; 16,531 tons material transfer device; 40 tons breaker-in crushed stone; 113,321 ft wall reflective thermoplastic pavement marking; 106,830 ft grooving for recessed pavement marking; mobilization; traffic control and protection; Federally Funded; (60 Working Days) (Job No. C-92-032-12) (2-14410-0000) (See the Special Provisions for the DBE Percentage)
14. Contract No. 64860 Stephenson County District 2 **426 Pages (213 Half-size plan sheets)**
 Section 177-2-1
 FAP Route 301 (US 20) Project ACNHF-301(70)
 3.12 miles of constructing HMA pavement for the newly graded west bound lanes of the U.S. 20, patching on existing east bound lanes and milling and resurfacing on U.S. 20 from U.S. 20 (Business) west to Freepert to west of IL Rt 20; includes 25,320 cu yd earth excavation; 11,250 cu yd rock excavation; 6,950 cu yd topsoil excavation and placement; 12 acres seeding; 40,802 sq yd erosion control blanket; 84,949 sq yd subbase granular material; 10,007 ton HMA surface course; Mix C; 43,383 sq yd HMA pavement (full-depth); 2,729 sq yd pavement removal; 35,431 sq yd milling; 2,536 sq yd patching; 36,160 sq yd HMA shoulders; 313.7 cu yd concrete; 514 sq yd bridge deck grooving; 24,003 ft pipe underdrains; 5,200 ft steel plate beam guard rail; 28 traffic barrier terminals; 64,423 ft shoulder rumble strips; 1426.75 sq ft sign panel; 15,645 sq ft structural steel sign support/brakeaway; 67,710 ft urethane pavement marking; 37,366 ft grooving for recessed pavement marking; mobilization; traffic control and protection; Federally Funded (Completion Date: November 19, 2012) (Job No. C-92-032-12) (2-06910-0304) (See the Special Provisions for the DBE Percentage)
MANDATORY PRE-BID CONFERENCE



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Mandatory Pre-Bid Conference


MANDATORY PRE-BID CONFERENCE

DISTRICT 2 – MANDATORY PRE-BID CONFERENCE

Plans and special provisions for contract #64860 in Stephenson and #64C94 in JobDavies for the letting of March 9, 2012 will be available for your review at the District 2 Office, 819 Depot Avenue, Dixon, IL 61021 at 1:30 p.m. in the West Assembly Room on Wednesday February 29, 2012.

Contract #64860. Construction of full depth pavement for the west bound lanes of the US Route 20 Freepert bypass.

Contract #64C94. Removal and replacement of concrete decks on six US Route 20 structures.



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Site Visit

- Plan in hand site walk
- Understand access restrictions
- Other site restrictions
 - Environmental resources
 - Trees/site features that may interfere are not always on the plans
- Document plan specifics for use in estimating accurate labor and equipment needs



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Project Scope

- Location of Project
 - On the plans – Title sheet
- Description of Project
 - On Notice of Letting document
- Plan set and specifications
 - Define the project specifics



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Pavement Patching (Section 422)

1. Class A – Pavement Removal and Continuous Reinforced P.C.C. Replacement.
2. Class B – Pavement Removal and P.C.C. Replacement using Dowels or Tie Bars.
3. Class C – Pavement Removal and P.C.C. Replacement.
4. Class D – Pavement Removal and Hot-Mix Asphalt (HMA) Replacement.



Pavement Patching - Contractor's option of Class C or Class D.

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Pavement Patching (Section 422)

Types of Patches:

Type I - < 5 Sq Yds (5 Sq-M).

Type II - 5 Sq Yds or more but <15 Sq Yds (15 Sq-M).

Type III - 15 Sq. Yds. or more but <25 Sq Yds (20 Sq-M).

Type IV - 25 Sq Yds (20 Sq-M) or more.



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Pavement Patching (Section 422)

Materials:

- Portland Cement Concrete (PCC)
 - Reinforcement Bars – Pavement Value C.
 - Dowel Bars and Assembly
 - Preformed Expansion Joint (P.J.F.)
 - Preformed Fiber Joint Filler
 - Non-Shrink Grout
 - Hot Poured Joint Sealer
 - Backer Rod
 - Material for forming Joint Groove



Pavement Patching (Section 422)

Note:

- Always read or refer to the Special Provisions and Specifications for the Concrete to use in the various types of Patches such as Class A, Class B, and Class C.
- Backer Rod shall be a Closed Cell Plastic Foam Rod that is compatible with the Sealant and Elevated Temperatures of Joint Sealant Application.



Pavement Patching (Section 422)

Equipment:

- Concrete Saw
- Wheel Saw
- Breaker with Loader
- Drilling Machine
- Miscellaneous Equipment
- Heating Equipment for Joint Sealant
- Skid Steer Grader Equipment with Hydraulic Hammer



Pavement Patching (Section 422)

Other Considerations:

- Site Visit
- Corridor Equipment Access and Overnight Parking Facilities for Alternate Cost.
- Check Estimated Quantity of Patches for each type of Patch.

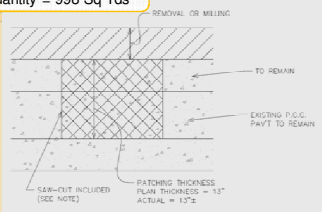
Note:

- Remember the Plan Notes!
- Patch location and site will be determined by Resident Engineer.



Removal Calculations for Patches

CLASS D, TYPE 1 (13")
Plan Quantity = 998 Sq Yds

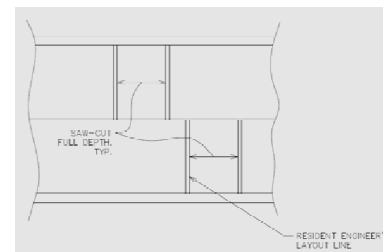


Typical Section Plan
Exist. Thickness -
6"± Surface (HMA)
+ 9" P.C.C. Pavement
= 15" Pav't thickness
- 2-1/4" HMA Removal
= 12-3/4" Thickness of
Patching



For this project, 6" Sub-base Granular Material will remain. Need to compact it before installing HMA for Class D Patches.

Removal Pavement



NOTE: Do not damage outside Resident Engineer's "measured" or "layout" limit OR you will be paying from your pocket.

Calculations – Type 1

Patches are identified as Type 1, 2, 3, etc.

- Calculations for removal, Type I:
 - Type 1 – 13"
 - Area = 323 SY
 - Volume = Area x Thickness

$$(323 \text{ SY}) \times (9 \text{ SF / SY}) \times ((\text{Thickness of } 13") / (12"/\text{FT}))$$


Area

Conversion Factor to Square Feet

Pavement Depth

Conversion Factor to Feet

$$323 \times 9 \times (13/12) = 3,149.25 \text{ CF}$$

$$3,149.25 \text{ CF} / (27 \text{ CF/CY}) = \underline{117 \text{ CY}}$$


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Calculations – Type 1 (cont).

Weight of Concrete Pavement (for information only):

- $323 \times 9 \times 0.75 = 2,180.25 \text{ CF}$
- (1 CF of concrete = 150 lbs of concrete)

Therefore:

$$(2180.25 \text{ CF} \times 150 \text{ lbs/CF}) / 2000 \text{ lbs/Ton}$$


Volume

Conversion Factor to Pounds

Conversion Factor to Tons

$$= \underline{163.5 \text{ tons}}$$

Truckloads: $163.5 \text{ tons} / 18 \text{ tons/load} = \underline{9 \text{ truckloads}}$



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Calculations – Type II


Patch (Type II), 13" – Removal in CY/ton
Plan Quantity = 998 SY

CF: $998 \text{ SY} \times 9 \text{ SF/SY} \times 13"/12 \text{ (in/FT)} = 9370.5 \text{ CF}$

CY: $9370.5 \text{ CF} / 27 \text{ (CF/CY)} = 360.4 \text{ CY}$

TONS: $(9370.5 \text{ CF} \times 150 \text{ (lbs/CF)}) / 2000 \text{ (lbs/ton)}$
= 729.75 tons

Truckloads: $729.75 \text{ tons} / 18 \text{ tons/load} = \underline{41 \text{ truckloads}}$



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Calculations – Type III

Patch (Type III), 13" – Removal in CY/ton
Plan Quantity = 599 SY

Volume = Area x Thickness

CF: $599 \text{ SY} \times 9 \text{ SF/SY} \times 13"/12 \text{ (in/FT)}$


= _____ CF

= _____ CY

= _____ tons

= _____ truckloads

NOTE: Sawcutting **is** included in the unit price cost as per details.



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Calculations

HMA Required Materials.

Total SY for Type I, Type II, and Type III

$$\begin{array}{r}
 323 \\
 + 998 \\
 \pm 599 \\
 \hline
 1,920 \text{ SY (total of HMA required to order).}
 \end{array}$$

NOTE: Unit weight of HMA is 112 lbs/inch in thickness per area in SY, compacted



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Calculations

Tons = $\frac{1,920 \text{ SY} \times 112 \text{ lbs/SY} \times 13 \text{ in.}}{2000 \text{ lbs/ton}}$

= 1,398 tons


Equipment Required:

- Roller
- Compactor (Mechanical)
- Hand Tools

Laborers:

- Foreman
- Laborer
- Operator
- Traffic Control (Flagman)

NOTE: Unit weight of HMA is 112 lbs/inch in thickness per area in SY, compacted



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Calculations

- Type I 5 Sq. Yds. and Under
- Type II 5 Sq. Yds. to 15 Sq. Yds.
- Type III 15 Sq. Yds. and Over

NOTE: Be careful of incidental items:

- Sawcutting
- Traffic control
- Sub-grade preparation, compacted



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Calculations

- Proposed note to Prime on Cover Page
This proposal excludes:
- (1) Saw Cutting required for removal of patching
 - (2) Traffic Control, Standard

- Your price should include:
1. Material – Asphalt material, Prime.
 2. Labor – Prevailing Wages / Union Rates
 3. Equipment – Rental per day, week, or month.
 4. Profit
 5. Overhead – Office Expenses + Rent + Maintenance.
 6. Transportation – Mobilization.



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Calculations

- Proposed note to Prime on Cover Page
Material Inspections
- Certified Payroll
 - Approved Mix by IDOT (See Typical Sections)
 - Plant Report
 - Truck weight tickets with stamp and initial.

Final Measurement and Adjustment for Payment.
Type D Patches Article 442.10 of the Standard Specifications for applicable depth.



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**
FAP 866: ILLINOIS 83 (IVANHOE ROAD)
FROM IL. RTE. 176 TO IL. RTE. 137
SECTION: 37 RS-4
RESURFACING (3P)
PROJECT NO.: --
LAKE COUNTY
C-91-249-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT END: ILLINOIS 83+000

PROJECT BEGIN: ILLINOIS 82+000

DATE: 11/11/88

DESIGNED BY: J. J. ...

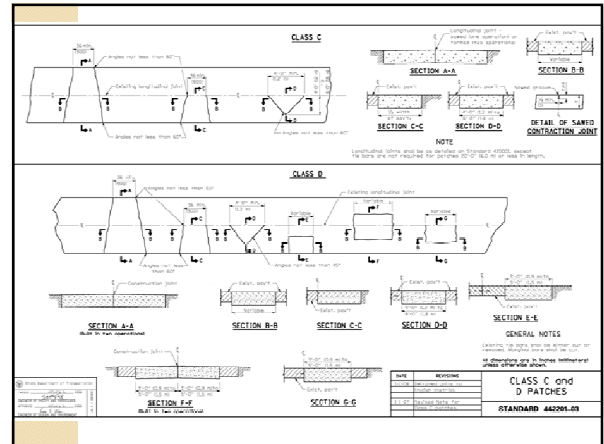
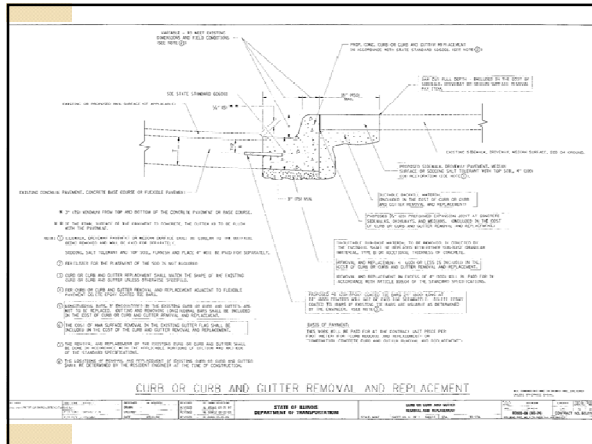
PROJECT MANAGER: JOHN ...

CONTRACT NO. 60355

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TYPE I	SQ. YD.	...	...	...
2	TYPE II	SQ. YD.	...	...	...
3	TYPE III	SQ. YD.	...	...	...
4	SAW CUTTING	LINEAL FT.	...	...	...
5	TRAFFIC CONTROL	HR.	...	...	...
6	...	...	...	...	...

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL AMOUNT
1	TYPE I	SQ. YD.	...	...	...
2	TYPE II	SQ. YD.	...	...	...
3	TYPE III	SQ. YD.	...	...	...
4	SAW CUTTING	LINEAL FT.	...	...	...
5	TRAFFIC CONTROL	HR.	...	...	...
6	...	...	...	...	...



ESTIMATING

- ## Estimating a job
- Understanding labor rates and fringe costs
 - Knowledge of production rates
 - Equipment rates and cost to own rates
 - Actual material costs
 - Understanding of overhead rates
- M**
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How to Develop Your Estimate

There are four basic modes of developing your estimates:

1. Historical Unit Cost (IDOT Website)
2. Actual Take-Offs of quantities and developing the unit costs What's Involved? Example
3. Calculating Component Cost
4. Comparison between historical and actual unit price

Cost Estimating: The process includes both the technical evaluation of the information and the subjective side of estimating, which includes the evaluation of what the data truly means to the project.



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Historical Unit Costs

- Data from recently awarded contracts as a basis for unit prices on the project being estimated.
- Available on DOT website for 3 to 5 years.
- Unit prices are adjusted for the specific projects conditions
- <http://www.dot.state.il.us/desenv/payitems.html>



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Pay Item Reports With Awarded Prices

(all files are Excel files unless otherwise indicated)

To open Microsoft Office 2007 files with Microsoft Office 2003, 2002, or 2000, you need to install the [Microsoft Office Compatibility Pack for 2007 Office Word, Excel and PowerPoint File Formats](#) and any necessary Office updates.

Letting Date:
 August 5, 2011 (389 k)
 April 23, 2011 (564 k)
 April 01, 2011 (245 k)
 March 11, 2011 (441 k)
 February 25, 2011 (242 k)
 January 21, 2011 (646 k)
 November 5, 2010 (425 k)
 September 17, 2010 (424 k)
 July 30, 2010 (405 k)
 June 11, 2010 (617 k)
 May 14, 2010 (410 k)
 April 23, 2010 (722 k)
 March 5, 2010 (674 k)
 February 18, 2010 (140 k)
 February 18, 2010 (140 k)

Letting Date:
 November 16, 2006 (682 k)
 September 22, 2006 (634 k)
 August 04, 2006 (616 k)
 June 16, 2006 (1.1 mb)
 April 28, 2006 (944 k)
 March 10, 2006 (631 kb)
 January 20, 2006 (889 k)
 June 17, 2005 (3.6 mb)
 November 18, 2005 (630 k)
 September 23, 2005 (254 k)
 August 05, 2005 (1.5 mb)
 April 29, 2005 (1.9 mb)
 January 21, 2005 (675 k)
 November 5, 2004 (582 k)
 September 17, 2004 (562 k)



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PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY	COUNTY	DIST	CONTRACT #	ITEM #	AWARD UNIT PRICE
A2C00505	T-ACER SACCH SM CG 5G	EACH	5,000	DUPAGE	1	03561	67	\$120.00
A2C01053	T-ASIMMA TRL CG 3G	EACH	3,000	WALL	1	03128	92	\$54.00
A2000320	T-ACER MTR MGR 2-1/2	EACH	8,000	COOK	1	03512	65	\$387.00
A2001718	T-ACER SACR 2	EACH	5,000	WALL	1	03128	92	\$223.00
A2002018	T-ASSOLUIS OLA 2	EACH	3,000	WALL	1	03128	92	\$546.00
A2002518	T-CARR CAROL 2	EACH	5,000	WALL	1	03128	92	\$249.00
A2002818	T-CARVA CORD 2	EACH	10,000	WALL	1	03128	92	\$381.00
A2002718	T-CARVA OVATA 2	EACH	20,000	WALL	1	03128	92	\$455.00
A2002818	T-CATAPPA SPEC 2	EACH	2,000	WALL	1	03128	92	\$223.00
A2002918	T-CELTIS OCCID 2	EACH	5,000	WALL	1	03128	92	\$179.00
A2004818	T-GLEDIT TRIN 2	EACH	5,000	WALL	1	03128	92	\$179.00
A2005018	T-GHICKLA DID 2	EACH	5,000	WALL	1	03128	92	\$243.00
A2005318	T-LIQUIDAMB STYR 2	EACH	2,000	WALL	1	03128	92	\$449.00
A2005418	T-LRIOCEN TUL 2	EACH	2,000	WALL	1	03128	92	\$324.00
A2005818	T-OSTRIVA VIRS 2	EACH	3,000	WALL	1	03128	92	\$324.00
A2005918	T-PLFRANKS OCC 2	EACH	2,000	WALL	1	03128	92	\$211.00
A2006418	T-QUERCUS ALBA 2	EACH	5,000	WALL	1	03128	92	\$322.00
A2006518	T-QUERCUS BICOL 2	EACH	15,000	WALL	1	03128	92	\$243.00
A2006520	T-QUERCUS BICOL 2-1/2	EACH	8,000	COOK	1	03512	65	\$398.00
A2006818	T-QUERCUS IMBR 2	EACH	5,000	WALL	1	03128	92	\$423.00
A2008718	T-QUERCUS MACR 2	EACH	10,000	WALL	1	03128	92	\$243.00
A2008818	T-QUERCUS MELH 2	EACH	10,000	WALL	1	03128	92	\$243.00
A2007118	T-QUERCUS RUBRA 2	EACH	10,000	WALL	1	03128	92	\$243.00
A2007120	T-QUERCUS RUBRA 2-1/2	EACH	18,000	COOK	1	03512	65	\$386.00



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Excel File Available.

Actual Take-Off Method

- Estimate the bid cost for items of work by estimating cost of each component and then applying a profit and overhead rate.
- Required for unique and/or complex projects with special circumstances. For example:
 - Extremely remote geographic location,
 - Difficult site access,
 - Specific time restrictions, etc.



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Example of Actual Take-Off

- Obtain and review plans and specifications
- Perform Site visit
- Prepare estimate for bidding



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Steps in Preparing an Actual Estimate

- 1 Reviewing plans, specs and general notes for incidental costs
- 2 Verify plan quantities by reviewing item locations and constructability... also verify if the visual item improvement has roughly the same quantity to improve. So, unit prices could be adjusted (e.g. 4,000 acre seeding plan quantity but only 4 acres of actual seeding).
- 3 Visiting Project Site to identify utilities, project access points, equipment parking overnight, etc.
- 4 Looking at IDOT Standard Spec Book for material specs, special provisions, construction requirements and equipment.
- 5 Labor and Equipment Operators
- 6 Contacting Material Suppliers for price quotes
- 7 Calculate total item cost
- 8 Total item cost/total item quantity = unit cost



Preparing Bids/Cost Estimates

1. Find bid items appropriate for your company
2. Identify list of projects and filter for your service area
3. Find bidders (primes) pursuing those projects
4. Review plans and specifications for those projects
5. Visit sites if appropriate for your items
6. Prepare cost estimates and submit to primes
7. Follow bid letting



Bid Letting

- Audio/video stream available date of letting at 10:00AM.
- Bids read at 10:20AM
- <http://www.dot.state.il.us/desenv/030912/stream.html>



Special Thanks

- PTAC / EigerLABS
- IDOT District 2
 - Fred Marruffo
District 2 EEO Officer
Illinois Department of Transportation
819 Depot Avenue
Dixon, Illinois 61021
Phone: (815) 284-5345
Fax: (815) 285-5262
Email: Fred.Marruffo@illinois.gov



Upcoming Workshops

- District 2
 - April 19, 2012 – Trucking
 - May 17, 2012 – Documentation and Surveying
 - June 14, 2012 – Patching – Asphalt & Concrete
 - July 19, 2012 – Force Account
 - August 16, 2012 – Concrete – Flat & Vertical
- District 3
 - April 3, 2012 - Plan Review and Specifications
 - May 3, 2012 – Trucking
 - May 22, 2012 – Certified Payroll



Questions???

- M Squared Engineering, LLC
 - **Vinu Patel**
 - vpatel@msquaredengineering.com
 - (630) 453-8994
 - **Matt Hahm**
 - matt@msquaredengineering.com
 - (262) 376-4246

