PROJECT DELIVERY ACADEMY MODULE 5: CONSTRUCTION AND MAINTENANCE

FAST PROGRAM:

Presented by:

Irene Del Castillo

Assistant Manager, ADOT Field Reports





FAST Field Office Automation System

A Tool to Help Project Managers Understand How ADOT Manages Construction Projects, Costs and Schedule



SUMMARY

What is FAST / Who Uses It

How Can PM's Use It, Effectively

Walk-Through

Questions...???



What is it?

- A tool developed to assist field office personnel to track, manage and administer projects during construction
- Assist with Construction Group compliance with federal law and Std. spec for payments etc.

Who Uses It?

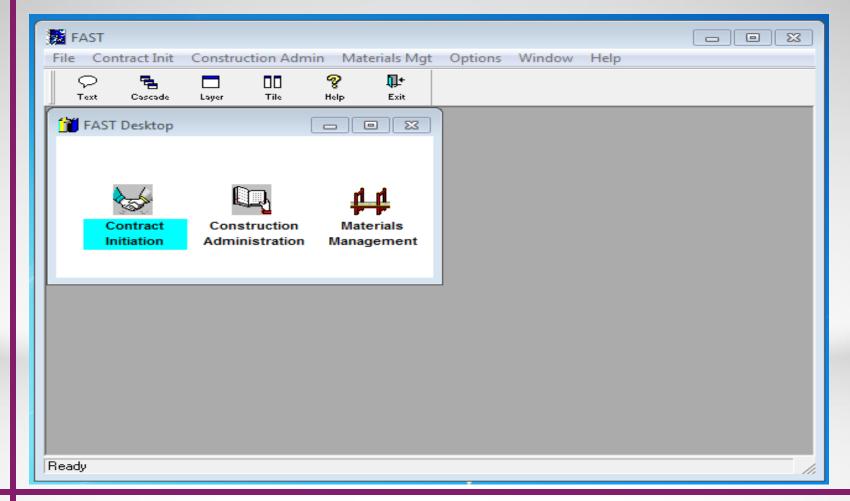
- C&S
- Field Office Admin.
- Resident Engineers
- Project Supervisors
- Material Coordinators
- Project Managers
- Field Reports



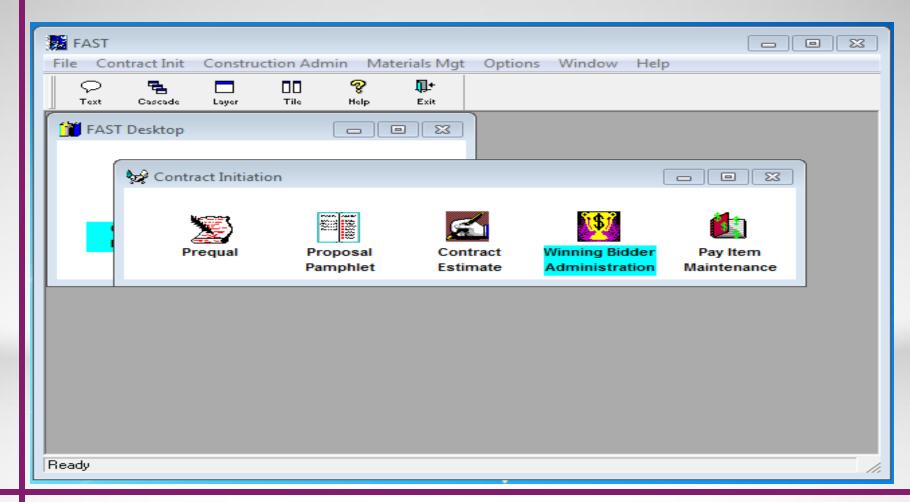
How Can PM's Use It?

- Provide Better Design Packages to The Construction Team
 - Minimize Cost Overruns, Change Orders and Budget Increases
- Research Project History / Historical Data
 - Bid Tabulation / Bidder Comparison vs. Dept. Est.
 - Item Numbers / Descriptions
- Tracking In Real-Time
 - Supplemental Agreements / Change Orders => SCOPE
 - Contract Time => SCHEDULE
 - Bid Item Costs / Overruns => BUDGET

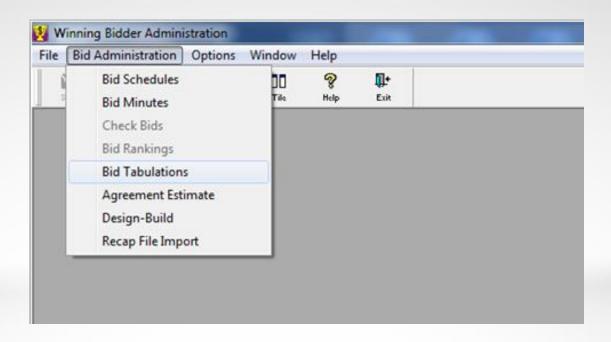




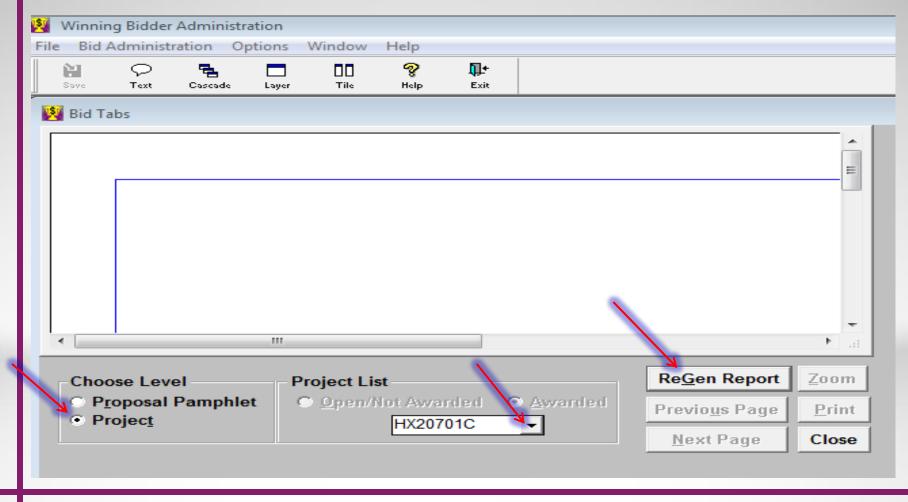




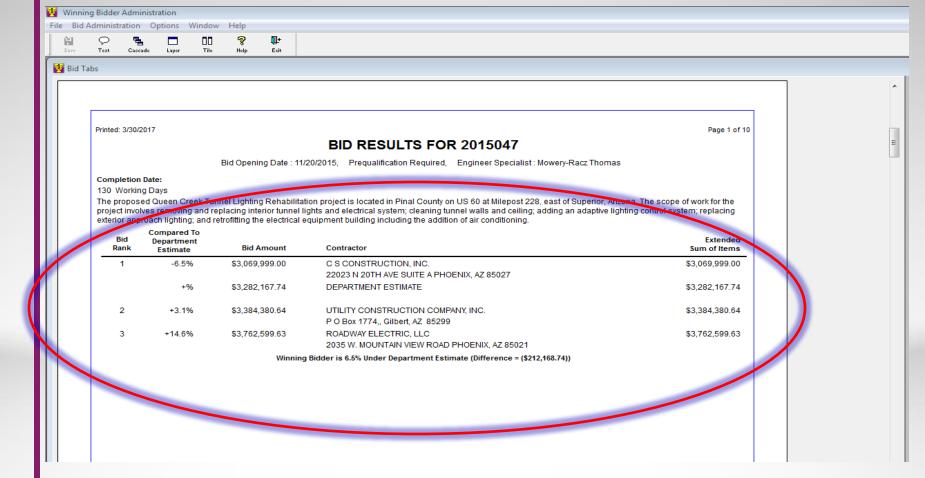




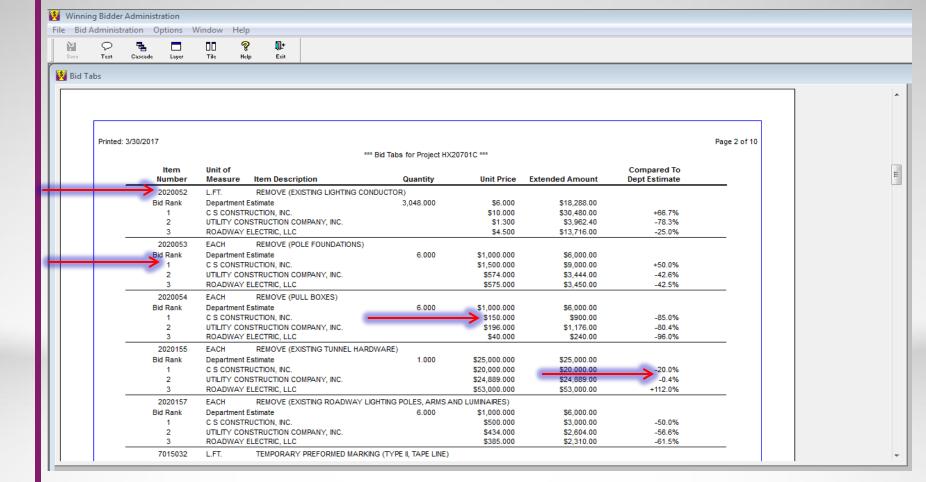




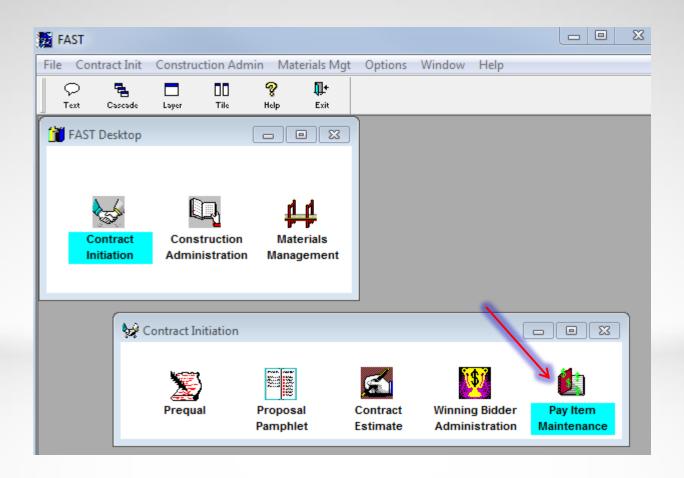




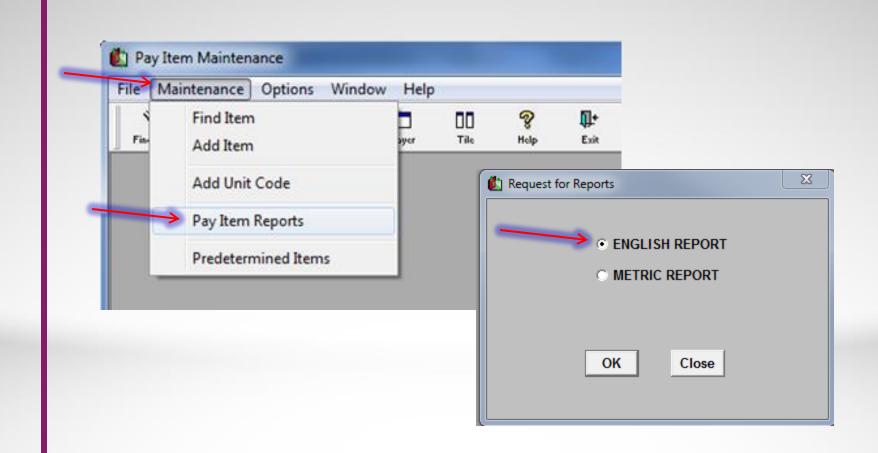










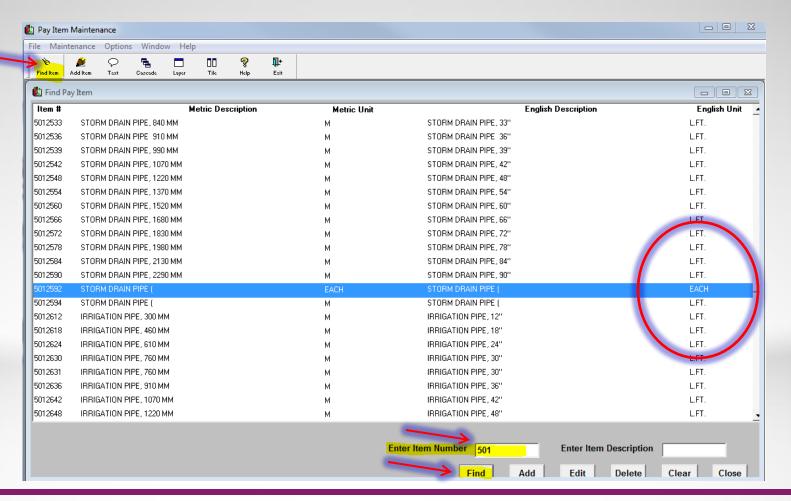




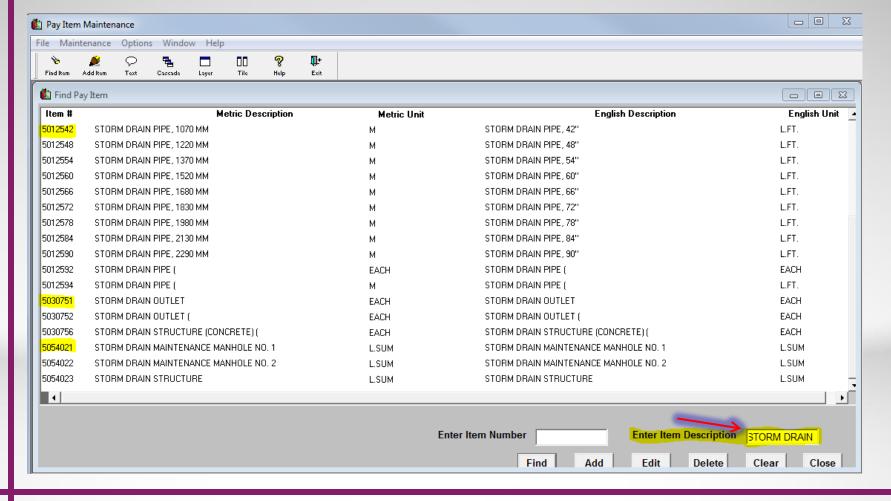
🛍 English Pay Item Report

3/12/2019	A.D.C	D.T - CONRACTS AND SPECIFICATIONS SERVICES P	Page 1 of 113
	ITEM NO#	ENGLISH DESCRIPTION	MEASUREMEN
	→ 1050001	CLAIMS AND ESCALATION SETTLEMENTS	L.SUM
	1070001	INSURANCE (ADDITIONAL REQUIRED)	L.SUM
	1080001	CMP(L.SUM
	1080100	FAILURE TO COMPLETE WORK ON TIME LIQUIDATED DAMAGES	L.SUM
	1080200	PROSECUTION AND PROGRESS ADJUSTMENT	L.SUM
	1080300	SUBCONTRACTOR EARLY START SANCTION	L.SUM
	1080400	MAINTENANCE OF TRAFFIC CLOSURE SANCTION	L.SUM
	1080500	DBE SUBSTITUTION/TERMINATION SANCTION	L.SUM
	1080505	NOT MEETING CONTRACT DBE GOAL SANCTION	L.SUM
	1080600	QUALITY CONTROL REPORTS SANCTION	L.SUM
	1080800	CONTRACT TIME EXTENDED OVERHEAD	EACH-DAY
	1080900	PAYROLL SUBMITTALS SANCTION	L.SUM
	1080905	PAYMENT REPORTING SANCTIONS	L.SUM
	1080910	PROMPT PAY NON-COMPLIANCE SANCTION	L.SUM
	1090001	DIESEL FUEL PRICE ADJUSTMENT	L.SUM
	1090010	ASPHALTIC CONCRETE PAVEMENT SMOOTHNESS INCENTIVES	L.SUM

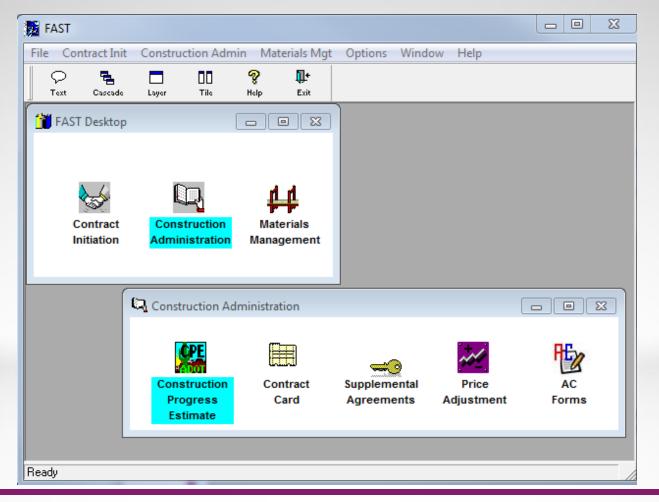




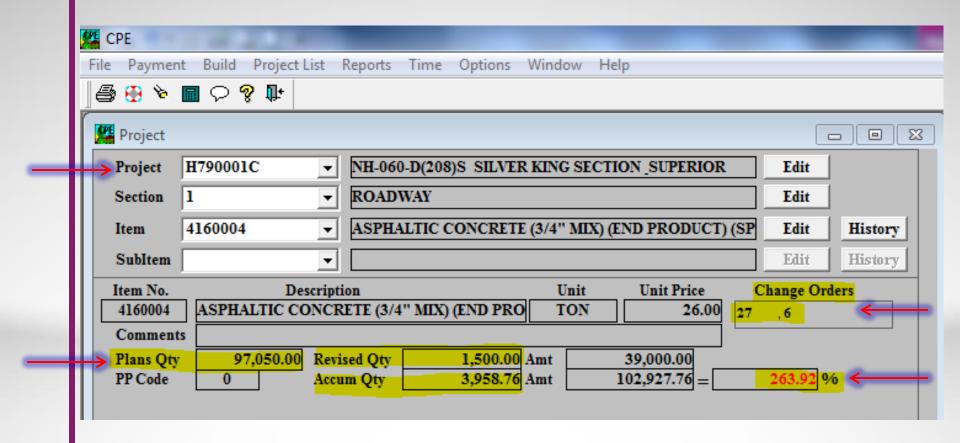






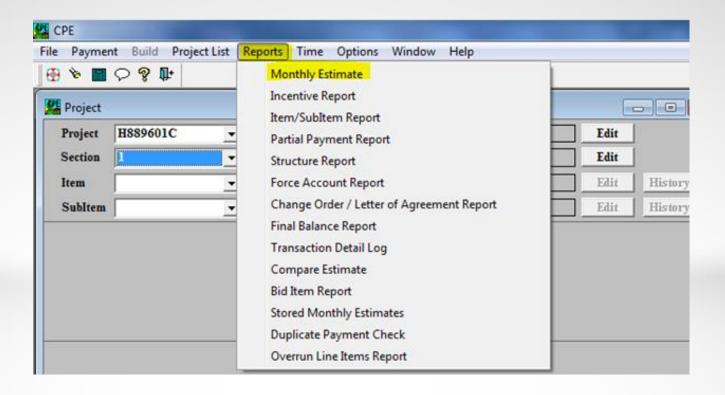








CPE REPORTS





CONTRACTOR'S MONTHLY ESTIMATE



Arizona Department of Transportation Division of Highways

Agreement Estimate & Transmittal Sheet (Money Summary of Progress & Final Payment Report)

4591 Org: Tracs No:

Federal No.:

Phase 01 days:

H889601C 010-E-(222)T

313

WILMOT RD, KOLB RD&RITA RD TI Description: Contractor: STURGEON ELECTRIC COMPANY, INC.

Estimate No. 14

Month: August 2019

Contract Amount: Date Started: Date Completed:

\$1,753,204.96 06/20/2018

Date: 09/06/2019

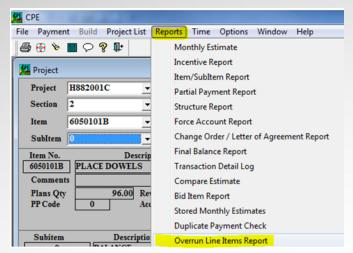
Engineer:

Daniel Casmer Percent Complete: Percent Time Used: 92

Page:

Rdway & Small Str Str Over 20 FT Total Total Notations Section Force Account 1 FA 21 1.495.771.79 1.495.771.79 1.495,771,79 Roadway **Summary of Federal Aid Construction** 1,495,771.79 Accum 1.495,771,79 0.00 0.00 1,495,771.79 Previous 1,238,326.92 0.00 1,238,326.92 0.00 1,238,326.92 257,444.87 0.00 257,444.87 0.00 257,444.87 Current Summary of Non-Federal Aid Construction Accum 0.00 0.00 0.00 0.00 0.00 Previous 0.00 0.00 0.00 0.00 0.00 Current 0.00 0.00 0.00 0.00 0.00 Grand Total Construction 1.495.771.79 0.00 1.495.771.79 0.00 1,495,771.79 Accum 1,238,326,92 0.00 1,238,326,92 0.00 1,238,326,92 Previous Current 257,444.87 0.00 257,444.87 0.00 257,444.87



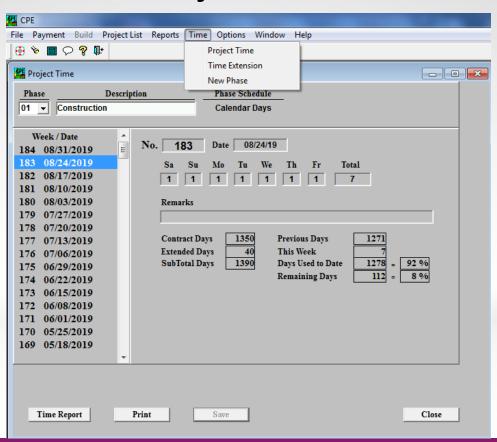


Overrun Line Items Report

						OVER	RUN LINE ITEMS	i			
Т	RACS#	H882001C	Fed Project #	040-B-(223)T			Location A	UDLEY OP EB	#1520 & WB #1521		
5	ection A:	-	em Description	Unit	Unit Price	Revised Quantity	Revised Amount	Actual Quantity	Actual % > 125% Amount Comp Comp	Quantity Overrun > 125% Comp	Dollars Overrun > 125% Comp
7	7015010	TEMPORARY CON (INSTALLATION A		L.FT.	\$20.00	5,080	\$101,600.00	7,000	\$140,000.00 138 % 13 %-	660	\$13,200.00 \$13,200.00
S	ection B:		em Description	Unit	Unit Price	Revised Quantity	Revised Amount	Actual Quantity	Actual % > 100%	Quantity Overrun > 100% Comp	Dollars Overrun > 100% Comp
2		REMOVAL OF EM	•	L.FT.	\$2.50	762	\$1,905.00	782	\$1,955.00 103 % 3 %	20	\$50.00



Project Time





Project Time Summary Report

Arizona Department of Transportation Division of Highways

Project Time Summary

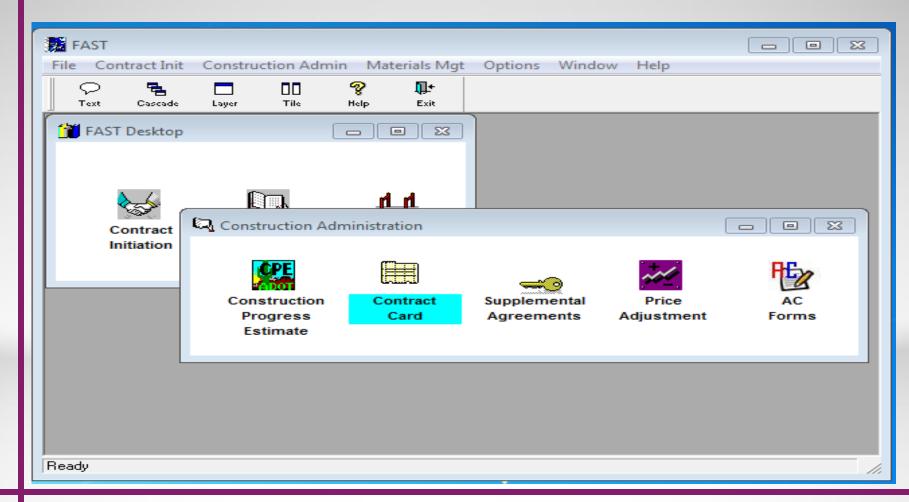
TRACS: H882701C Julie Gadsby

Project: 202-D-(200)S Resident Engineer
Contractor: CONNECT 202 PARTNERS LLC Org #4674

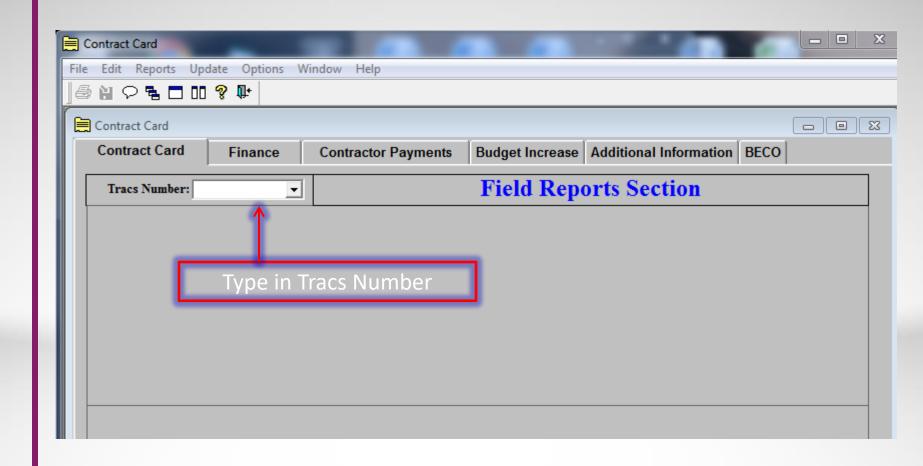
SR 202 SOUTH MOUNTAIN FREEWAY

Phase 01 Construction Date Started 03/01/2016			Contract Days 1350				Revised Days 1390			Days	Accumula 127	
Time Exte Request 1	ensions Date Approved 02/20/2019	Days 40	Rev	Tot a 139			SA 0 72	2	-	omments Id freewa		date 12-20-2019
Time Rec	ording											
Number	Week Begin	ning	S	S	M	T	W	Т	F	Total	Accun	Remarks
001	02/27/2016		0	0	0	1	1	1	1	4	4	NTP 1 time started March 1, 2016.
002	03/05/2016		1	1	1	1	1	1	1	7	11	
003	03/12/2016		1	1	1	1	1	1	1	7	18	
004	03/19/2016		1	1	1	1	1	1	1	7	25	
005	03/26/2016		1	1	1	1	1	1	1	7	32	
006	04/02/2016		1	1	1	1	1	1	1	7	39	

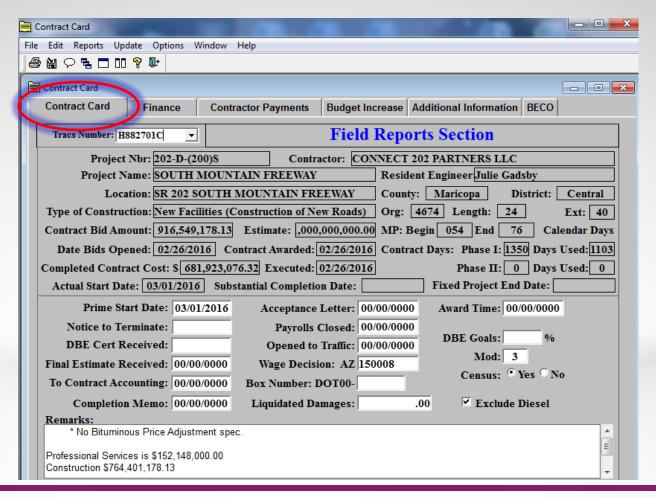




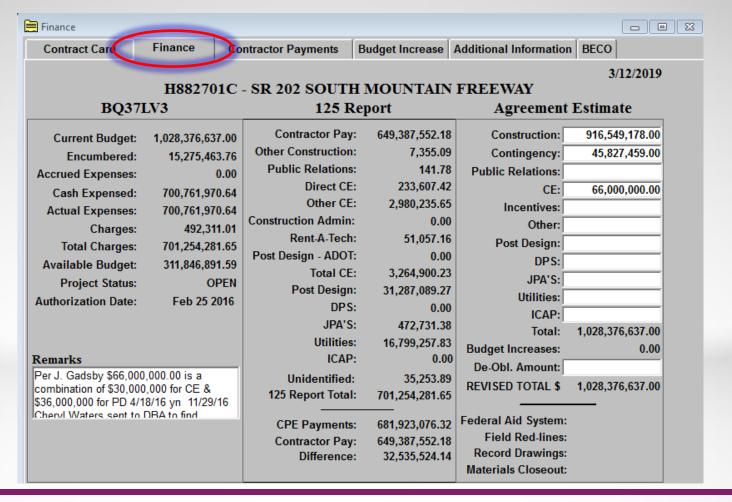




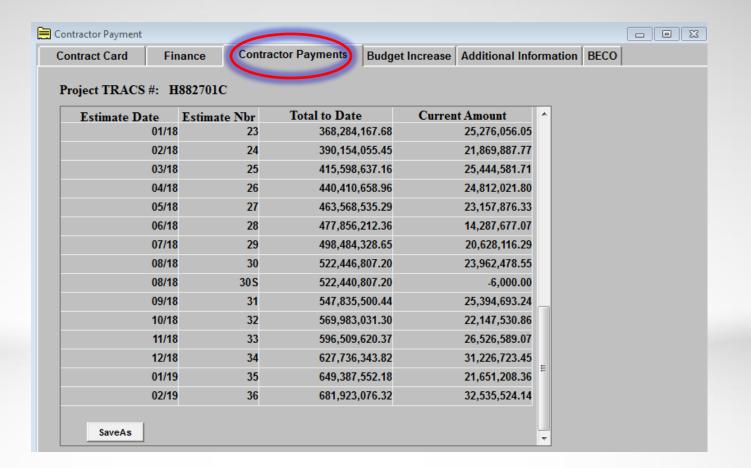




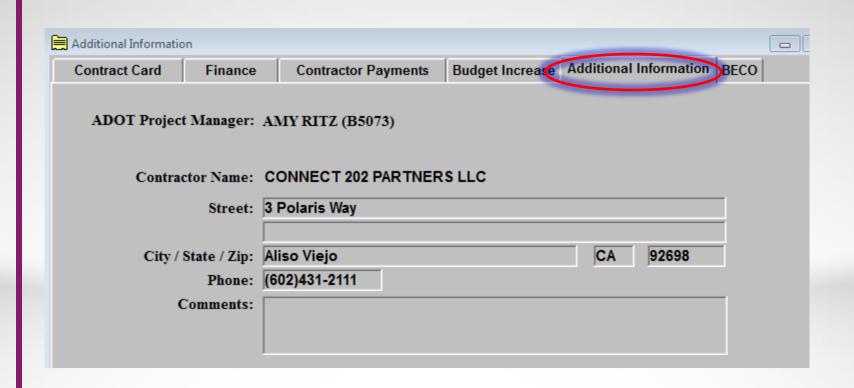




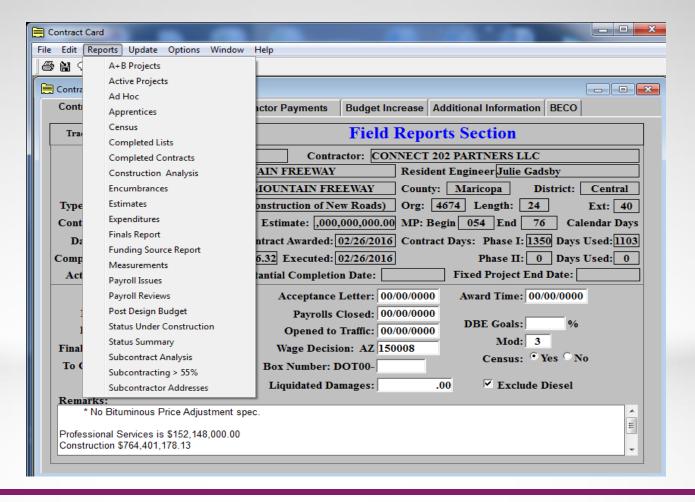




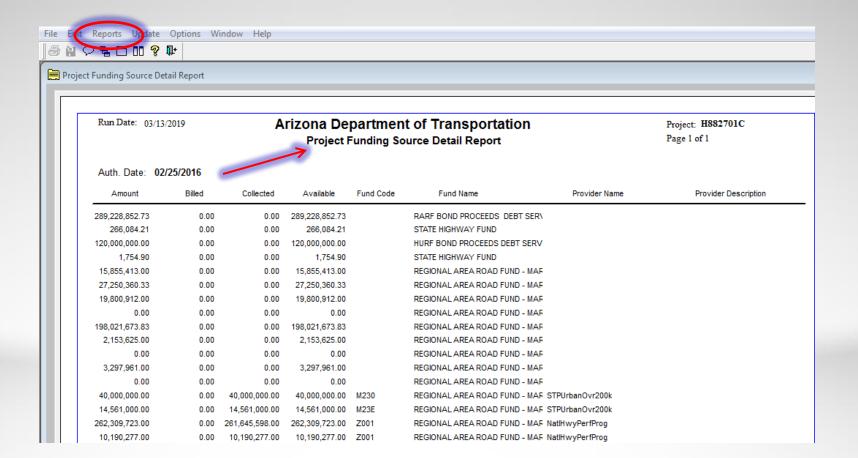






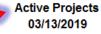








Arizona Department of Transportation



Re-Inforcement, Lime Treated Subgrade, AB Class 2, AC 407 and 409 and 416, 24" Pipe, Catch Basin, Headwall, Signing, Flaggings, Recessed Type C and D and E, Stripping Epoxy, Type G Poles, Electrical, Loops Systems, 32 Acres or Seeding, Chain Link Fence, Guard Rail and Nested Rails and End Treatments, Rip Rap, 12" Rumble Strip, Structural Concrete 3,500 and 4,000 and 4,500 PSI, Groove Deck, 34" Concrete

<u>Contractor</u> <u>Bid Amount</u> <u>Project Name</u> <u>Project Number</u> <u>Start</u> <u>Location</u>

TRACS Number WD Type of Work Percent Complete Last Inspection

Org Resident Engineer Phone: (928) 714-2291

4352 Stephen Monroe Fax:

NorthCent 0

FISHER SAND & GRAVEL CO. DBA SOUTH\$6,375,000.00 MESQUITE-LITTLEFIELD-NORTH HWY (I-15) 015-A-(212)T 02/21/2019 VIRGIN RIVER BRIDGES# 2, 4 & 5

H881201C 260 BRIDGE REHABILITATION

Org Resident Engineer Phone: (928) 714-2291

4352 Stephen Monroe Fax:

100 PER SAND & CRAYEL CO. DRA COUTHERA 450 000 00 CORDES ICT ELACSTAFE HIGHWAY (1.47) 08/15/2018

FISHER SAND & GRAVEL CO. DBA SOUTH\$24,450,000.00 CORDES JCT. - FLA

017-B-(232)T 04/09/2018

H893401C 320

CORDES JCT. - FLAGSTAFF HIGHWAY (I-17)

COCONINO COUNTY LINE I-40 NB

AC

PAVEMENT AND BRIDGE REHABILITATION

Removals, Millings, Should Build-up,

Separation Geotextile Fabric and

Carrier, Deck Joints and Compression Seal,
Thrie Beams. Approach Slabs. 48" Drill Shaft

Inspection Due/ Complete



Arizona Department of Transportation Field Reports Section

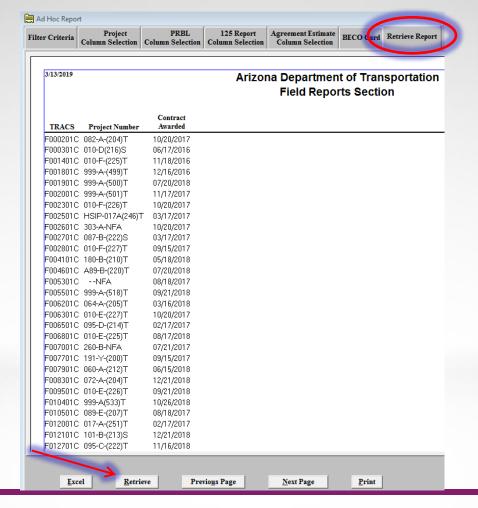
Status of Projects Under Construction March 13, 2019

		District:	Central				
Project/TRACS <u>Number</u>	Org/Fund MP	Project Name Location Contractor		Time Actual <u>Start</u>	Days Contract <u>Used</u>	Bid amt/ Earned <u>To Date</u>	Percent Comp/Time
Local Goverment	Projects						
PE0-0-(215)T	4672	CITY OF PEORIA		06/14/2017	365	6,134,772.80	96 \107
SH53501C	PEO	75TH AVENUE AND CACTUS ROAD HAYDON BUILDING CORP		06/14/2017	390	5,917,862.23	
PE0-0-(216)T	4672	CITY OF PEORIA		06/14/2017	365	5,136,904.93	101 \107
SH53601C	PEO	75TH AVENUE AND PEORIA AVENUE HAYDON BUILDING CORP		06/14/2017	390	5,201,650.99	
BKY-0(212)T	4679	ADOT18-183644		09/21/2017	365	124,718.27	25 \36
SH63401P	BKY	CITY OF BUCKEYE		09/21/2017	133	30,811.01	
GLN-0-(242)T	4684	CITY OF GLENDALE		10/24/2018	75	703,000.00	99 \119
SZ10701C	GLN	NEW RIVER NORTH SHARED USE PAT VISUS ENGINEERING CONSTRUCTION, IN	C.	11/05/2018	89	694,458.25	
PEO-0(223)T	4677	ADOT18-196421		06/13/2018	365	520,858.85	92 \74
T000101P	N/A	MARICOPA COUNTY Presentation Products Inc. dha Spinitar			269	480,632.84	



ilter Criteria Project	PRB on Column Sele		Report Selection	Agreement Estin		Card Retrieve	Report	
Report Title:					<u> </u>	·		
	Tracs Number	er:	-	Phase I	Contract Day	rs: 000	to 000	
Project Num	hom				Days Use	ed: 000	to 000	
Project Num	oer.			Phase II	Contract Day	rs: 000	to 000	
Contractors:			▼		Days Use	ed: 000	to 000	
District:	▼	Org:	▼	Actua	l Start Date:	00/00/0000	to 00/00/00	00
Bid Amount:	0.00	to	0.00	Sub Co	ompltn Date:	00/00/0000	to 00/00/00	000
Estimate:	0.00	to	0.00		Prime Date:	00/00/0000	to 00/00/00	000
Contract Cost:	0.00	to	0.00	Final E	st Received:	00/00/0000	to 00/00/00	000
Date Bids Opened:	00/00/0000	to 00/00/000	0	To Co	ontract Acct:	00/00/0000	to 00/00/00	000
Contract Awarded:	01/01/2015	to 12/31/201	8	Compl	etion Memo:	00/00/0000	to 00/00/00	000
Project Name contains				Exe	cution Date:	00/00/0000	to 00/00/00	000
ARRA Projects	Box Number	☐ Lie	quidated Da	mages 🗆	Budget In	crease Count		
Has Item Numbers				Locat	ion contains			
or Item Numbers like	,			Construction t	ype contains			
CPE Payment Dates:	00/00/0000	to 00/00/000	0 1	Proj. Type A	+B □ Desi	gnB □ JOC	CMAR [

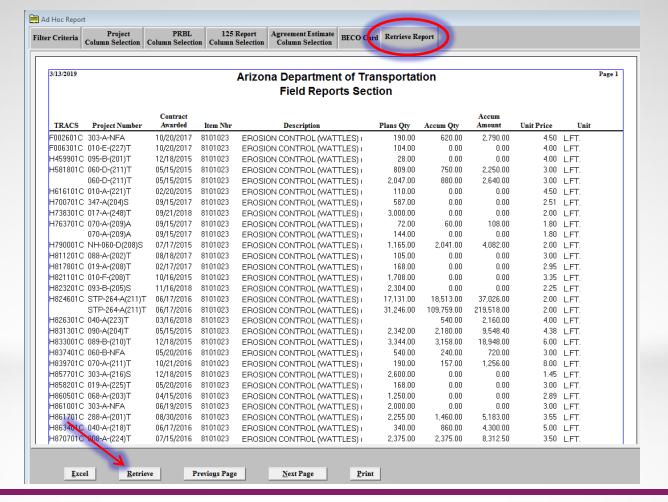






Ad Hoc Repo	ort									
Filter Criteria	Project Column Selection	PR Column Sel		125 Report Column Selection	Agreement Estimate Column Selection	BECO Card	Retrieve	Retrieve Report		
	Report Title:									
		Tracs Num	ber:	•	Phase I Cor	tract Days:	000	to	000	
	Project Number					Days Used:	000	to	000	
	1 Toject Number				Phase II Cor	tract Days:	000	to	000	
	Contractors:			▼		Days Used:	000	to	000	
	District:	v	O	org:	Actual Star	rt Date: 00	00/0000	to	00/00/0000	
1	Bid Amount:	0.00	to	0.00	Sub Comple	n Date: 00	00/0000	to	00/00/0000	
	Estimate:	0.00	to	0.00	Prim	e Date: 00	00/0000	to	00/00/0000	
Co	ontract Cost:	0.00	to	0.00	Final Est Re	eceived: 00	00/0000	to	00/00/0000	
Data P	hids Opened:	00/00/0000	to	00/00/0000	To Contra	ct Acct: 00	00/0000	to	00/00/0000	
		01/01/2015	to [12/31/2018	Completion	Memo: 00	00/0000	to	00/00/0000	
	act Awarded:	01/01/2015		12/01/2010	Executio	n Date: 00	00/0000	to	00/00/0000	
Proj	ect Name contains									
ARRA	Projects	Box Numbe	r [Liquidated D	amages 🗆	Budget Increa	se Count	Г		
Į.	Has Item Numbers	8101023			Location c	ontains				
or I	tem Numbers like				Construction type c	ontains				
CPE Pay	ment Dates:	00/00/0000	to	00/00/0000	Proj. Type A+B	DesignB	□ JOC		MAR	

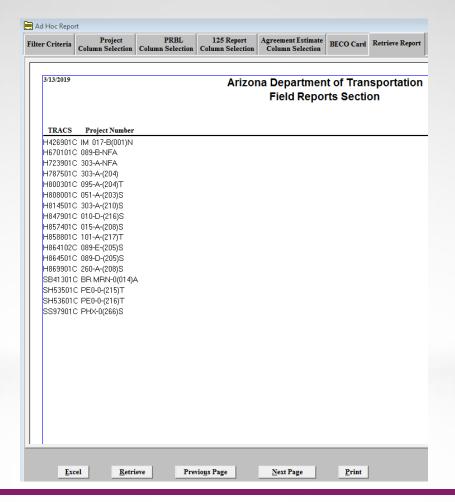




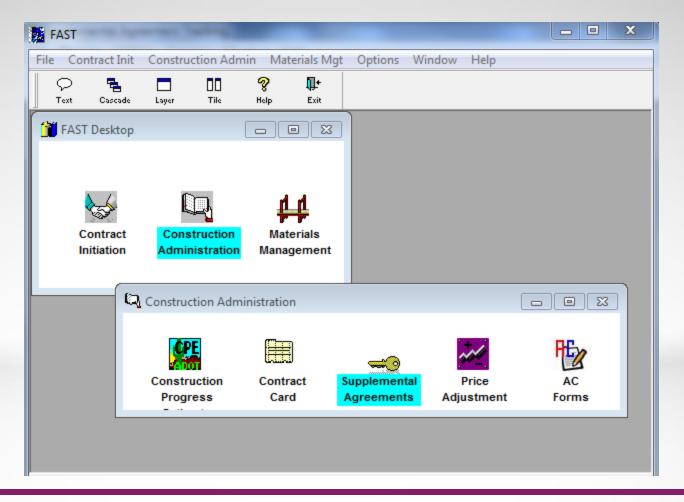


□ Ad Hoc Report													
Filter Criteria	Project Column Selection					Agreement Estimate Column Selection BECO Ca		rd Retrieve	d Retrieve Report				
Report Title:													
		Tracs Num	ber:		-	Phase I	Cont	tract Days	: 000	to	000		
	Project Number				_		1	Days Used	: 000	to	000		
	r roject Numbe				▼	Phase II	Cont	tract Days	: 000	to	000		
	Contractors:				▼]	Days Used	: 000	to	000		
	District:	•	O	rg:	▼	Actua	ıl Star	t Date:	00/00/0000	to	00/00/000	0	
F	Bid Amount:	0.00	to	0	.00	Sub C	ompltn	n Date:	00/00/0000	to	00/00/000)	
	Estimate:	0.00	to	0	.00		Prime	e Date:	00/00/0000	to	00/00/000	5	
Con	ntract Cost:	0.00	to	0	.00	Final I	Est Red	ceived:	00/00/0000	to	00/00/000)	
Date B	ids Opened:	00/00/0000	to	00/00/0000		To Co	ontrac	t Acct:	00/00/0000	to	00/00/000)	
Contra	ct Awarded:	00/00/0000	to	00/00/0000		Compl	letion l	Memo:	00/00/0000	to	00/00/000)	
	ect Name contains				-	Exe	ecution	Date:	00/00/0000	to	00/00/000)	
•	·				-1								
ARRA	Projects	Box Number	r [Liquida	ted Da	mages	E	Budget Inc	rease Count	Г			
H	las Item Numbers					Locat	tion co	ntains					
or It	or Item Numbers like Construction type contains												
CPE Payr	ment Dates:	00/00/0000	to	00/00/0000	1	Proj. Type A	+ B	Design	nB 🗆 JOC		CMAR ▽)	

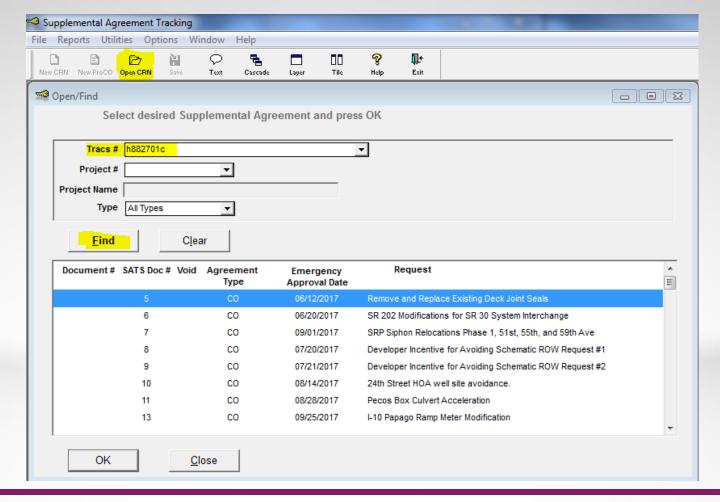




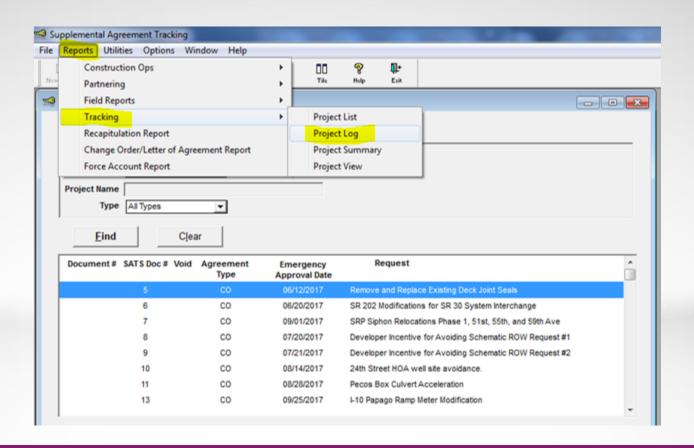










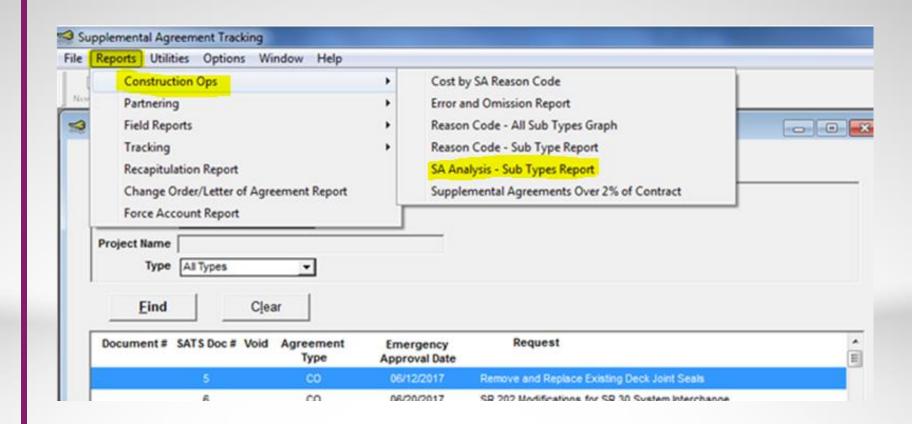




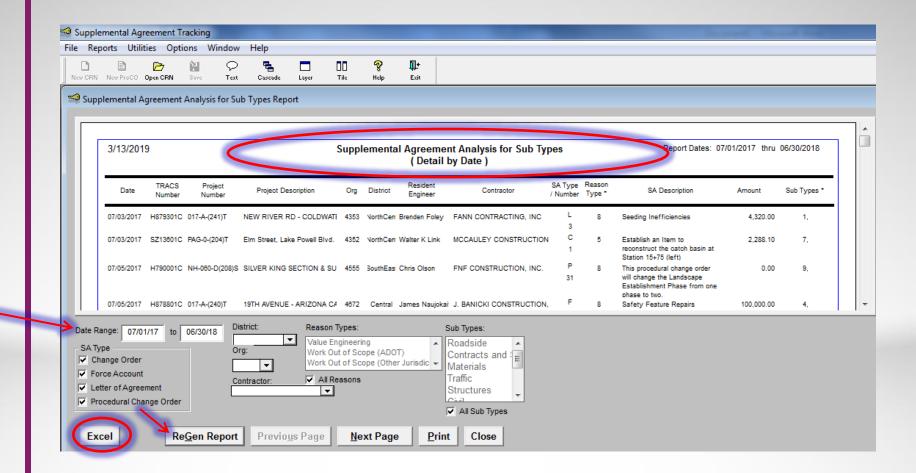
Supplemental Agreements Tracking Log

01/2	5/20	19	07:09 am					Arizona De		Transportati	on		Page 1 of 1	
Resident Engineer: John Halvarson Summary							Log 202-C-(205)T / H881801C Org: 4677 Central				Contractor: C S CONSTRUCTION, INC. Designer: Jacobs Engineering Group Inc.			
Contract A	mour	nt		:	\$4,184,269.0	0		Olg.	4077 Cerio	i dii				
5% Contin	geno	у			\$209,213.4	5			Total	Change Orders		\$-3,899.14		
Additional	Requ	este	d							Force Accounts		\$30,000.00		
Total Avail	lable								Total	Letter Agreements		\$-224.72		
Remaining	g Avai	ilable	2		\$.0	0			Total	SA Adjustment		\$.00		
Award Dal	te				06/16/201	7				TOTAL		\$25,876.14		
Reason	n Co	des	::											
1. Value E	ngine	ering	9		\$-5,957.70	-0.14	% 5.	Plans Revision	s / Oversights	\$32,058,56	0.77 %			
2. Work out of Scope (ADOT)			\$.00	0	% 6.	Changed Cond	fition	\$.00	0 %					
3. Work out of Scope (Other Jur)			\$.00	0	% 7.	Penalties - Bor	nuses	\$.00	0%					
4. Quantity Omissions			\$.00	0	% 8.	Other		\$-224.72	-0.01 %					
	C	R	Emerg	RE	Contr	Sent	Dist							%
	a	0 V	Auth	App	App	To	Арр	Return		(Accum	Of Orig
Number	t	٧	Date	Date	Date	Dist	Date	Date	Amount	SA Adjustment	Description		Amount	Contract
P 1	5		06/22/17	06/26/17	06/26/17	06/27/17		07/06/17	\$.00		Update Phase		\$0.00	0 %
L 1	8		07/07/17	07/10/17	07/17/17	07/19/17			\$-224.72		Partnering Wor		\$-224.72	
P 2	5		07/14/17	07/14/17	07/17/17	07/19/17		07/25/17	\$.00		DMS foundatio	.,	\$-224.72	-0:01 %
F 1	5		09/18/17	09/21/17	09/21/17	09/25/17			\$30,000.00			er Transition Installation	\$29,775.28	0.71 %
C 3	5		09/19/17	09/21/17	09/21/17	09/21/17		07/02/18	\$-8,820.00	\$.00	Concrete Barrie	er Quantity Adjustment	\$20,955.28	0.5 %
C 4	5		01/23/18	01/31/18	01/31/18	01/31/18		03/06/18	\$5,242.76	\$.00	Sign Panel Cor	rections	\$26,198.04	0.63 %
C 5	5		05/07/18	05/10/18	05/10/18	05/15/18		05/18/18	\$5,635.80	\$.00	Oversize No 9	Pull Box	\$31,833.84	0.76 %
C 6	1	ii.	08/20/18	08/21/18	08/21/18	08/29/18		09/20/18	\$-5,957.70	\$.00	Modify Green E	Sond Wire Size	\$25,876.14	0.62 %
P 7	6		11/08/18	11/09/18	11/09/18	11/14/18		12/04/18	\$.00		TER 01 - SRP	Delay - 4 Working Days	\$25,876.14	0.62 %

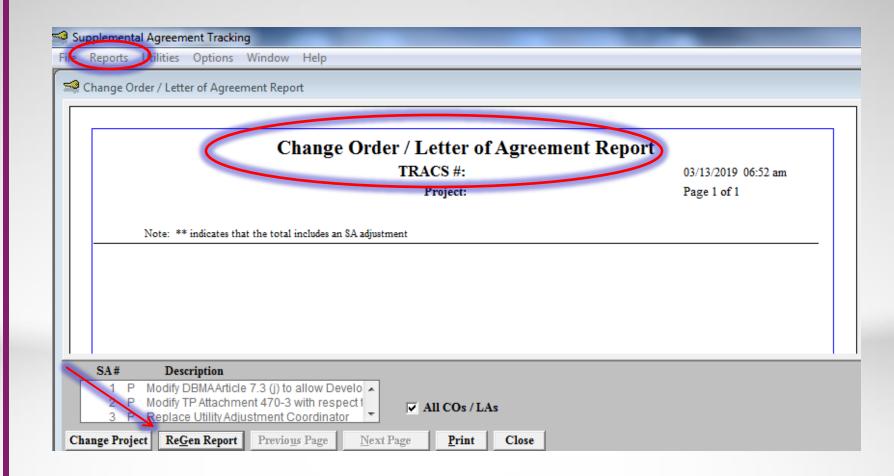














Change Order / Letter of Agreement Report

TRACS #: H882701C

09/06/2019 11:01 am

Project: 202-D-(200)S

Page 1 of 18

rocedur	al CO: 1		Description: Modify DBMA Article	7.3 (j) to allow Deve	eloper to enter Da	te Approved: 04/11/	2016	
				Cost Adj.				
					Total CI Total Letter of	nange Order = Agreement =	\$ 0.00 \$ 0.00	
C.	O. No. 10		Description: 24th Street HOA well	I site avoidance.		te Approved: 08/14/	•	
Section	Item	Туре	Description	Cost Adj.	Quantity	Unit Cost	Amount	
1	9401013		SOUTH MOUNTAIN SUPPLEMENTAL A	GREEMENTS	132,294.58	1.00	132,294.58	
					Total CI	nange Order =	\$ 132,294.58	
C.	C.O. No. 10		Description: 24th Street HOA well	Date Approved: 08/14/2017				
Section	Item	Туре	Description	Cost Adj.	Quantity	Unit Cost	Amount	
2	9401012		SOUTH MOUNTAIN SUPPLEMENTAL A	GREEMENTS	869,395.64	1.00	869,395.64	
2	9401015		SOUTH MOUNTAIN UTILITY ADJUSTM	ENTS	121,092.11	1.00	121,092.11	
					Total Cl	nange Order =	\$ 990,487.75	
C.O. No. 11			Description: Pecos Box Culvert A	cceleration	Date Approved: 08/28/2017			
Section	Item	Туре	Description	Cost Adj.	Quantity	Unit Cost	Amount	
1	9401013	•	SOUTH MOUNTAIN SUPPLEMENTAL A	GREEMENTS	51,868.79	1.00	51,868.79	
						nange Order =	\$ 51,868,79	



