

Wednesday, February 3, 2016

Scott E. Bennett, P.E.

Director of Highways and Transportation



**Senate Committee on
Transportation, Technology
& Legislative Affairs**

**House Committee on
Public Transportation**

Program



Updates

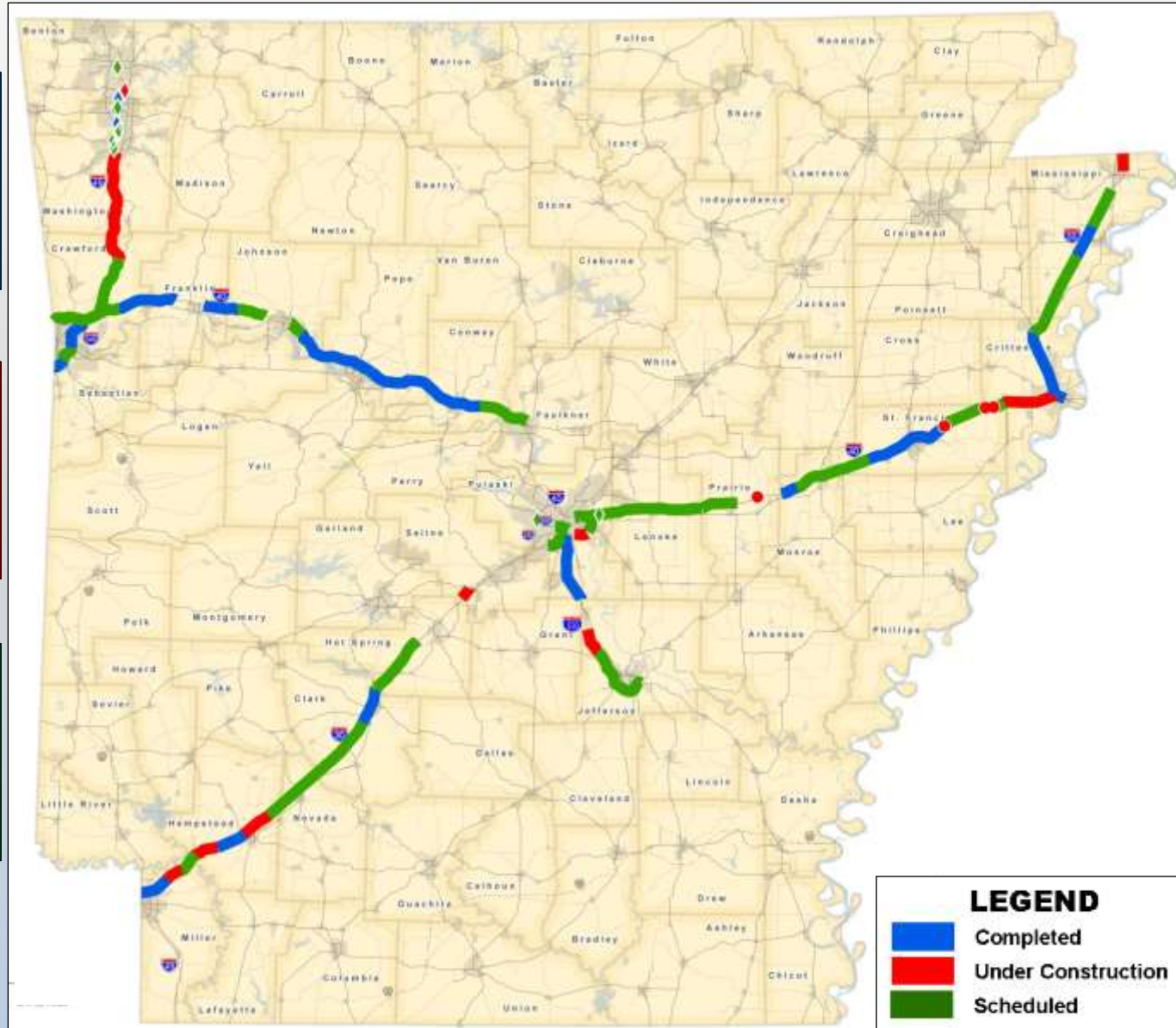


Interstate Rehabilitation Program Update

Completed:
23 Projects
170 miles
\$449 million

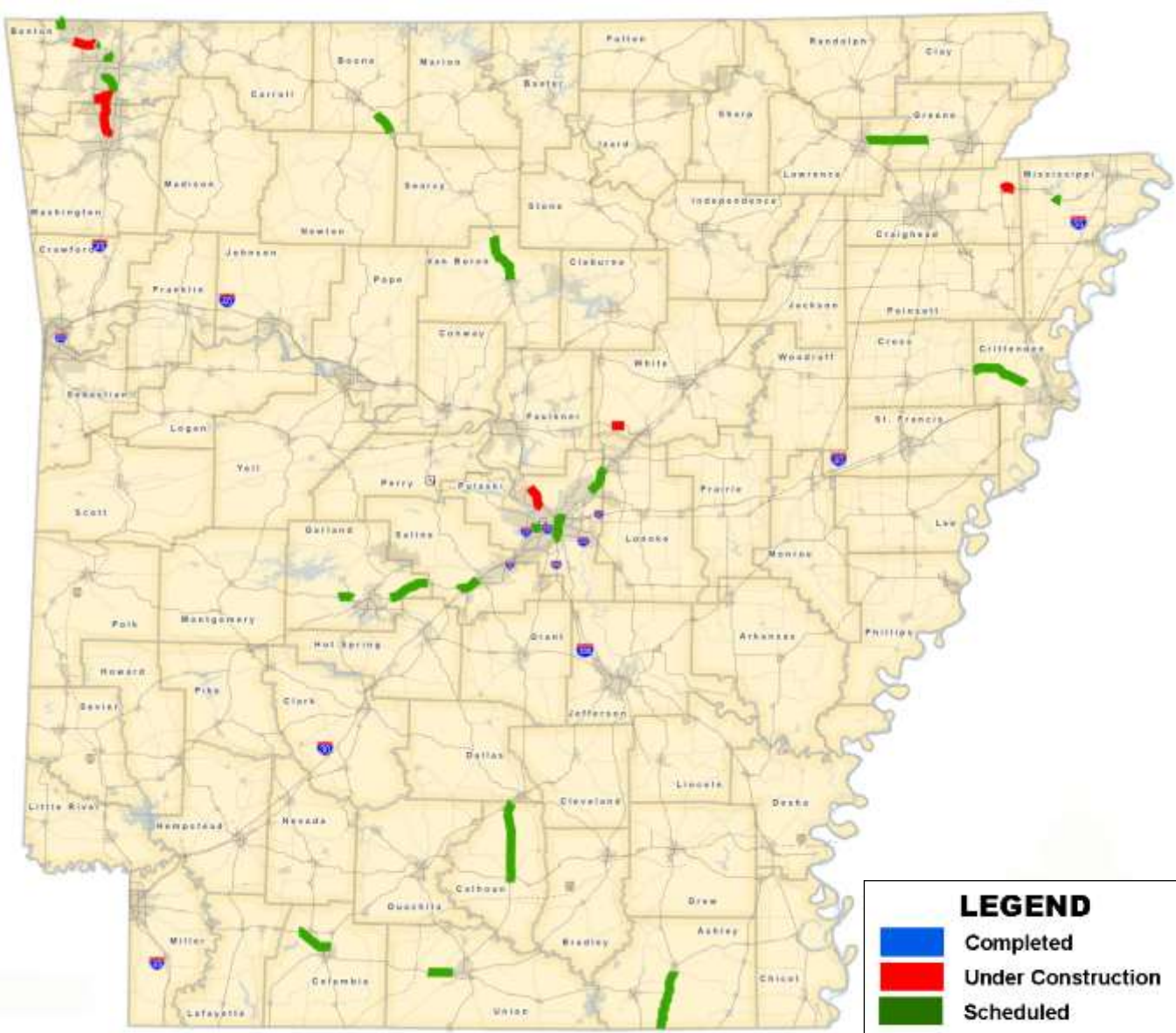
Under Construction:
15 Projects
80 miles
\$424 million

Scheduled:
44 Projects
240 miles
\$556 million





Connecting Arkansas Program Update



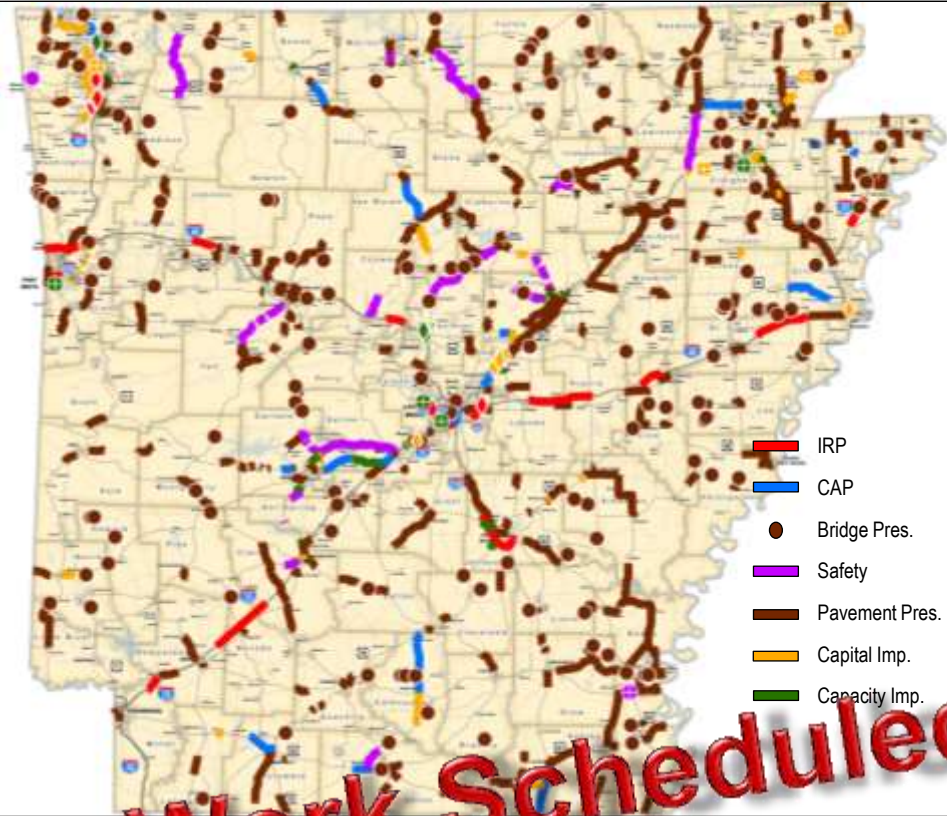
LEGEND	
	Completed
	Under Construction
	Scheduled

Under Construction:
7 Projects
29 miles
\$263 million

Scheduled:
28 Projects
149 miles
\$1.5 billion



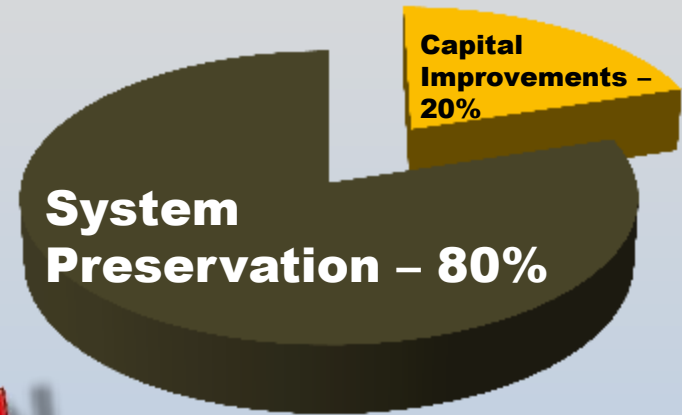
Draft Statewide Transportation Improvement Program (STIP) Federal Fiscal Years 2016-2020



**Work Scheduled
\$3.6 B
(93%) on the APHN**

“When you realize the value of all life, you dwell less on what is past and concentrate more on the preservation of the future.”

-Dian Fossey



Flexible Funds

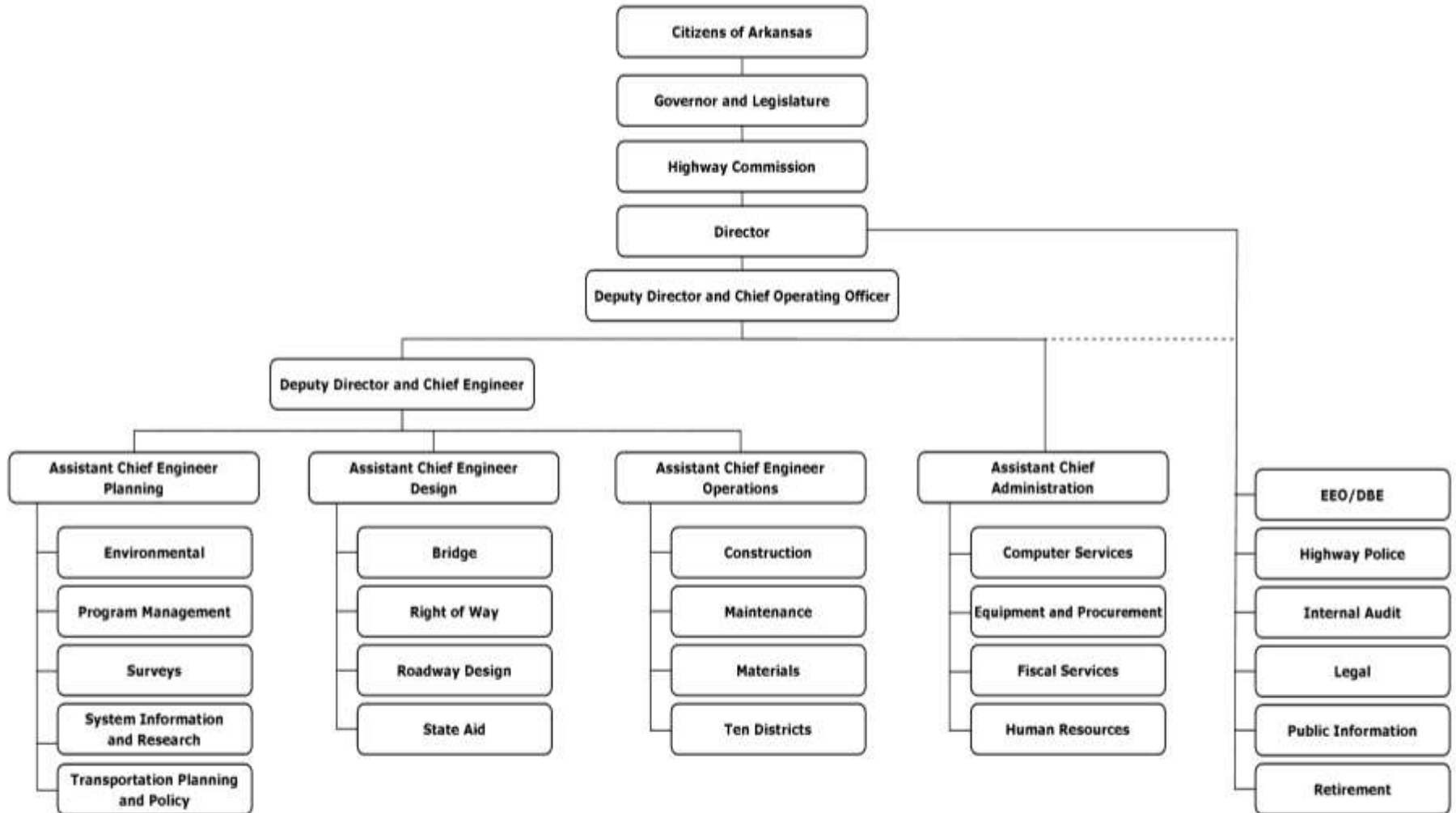
Department



Overview



Organizational Chart



Scott G. Bennett

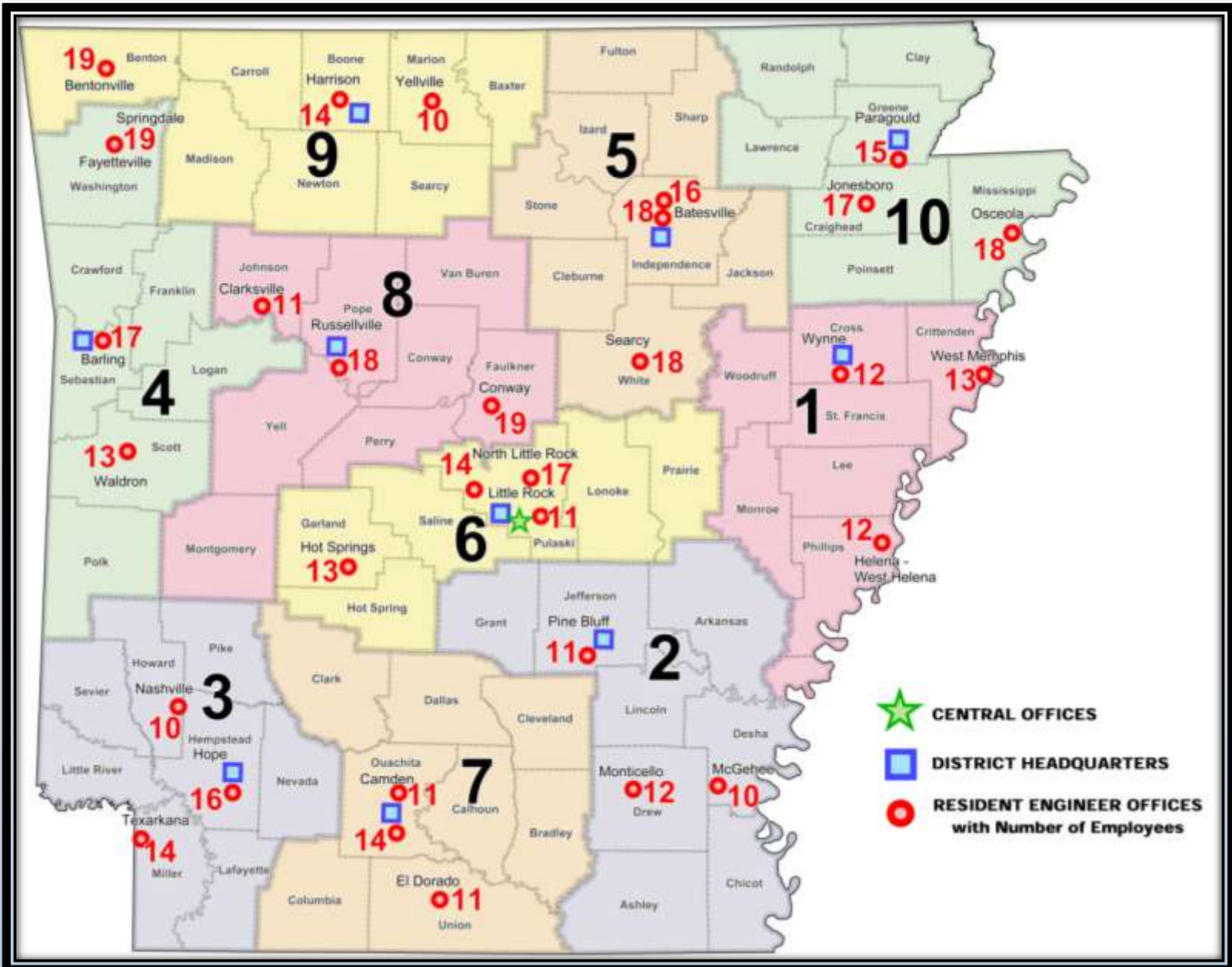
Director of Highways and Transportation

March 13, 2015

Date



District Organization





Project Lifecycle





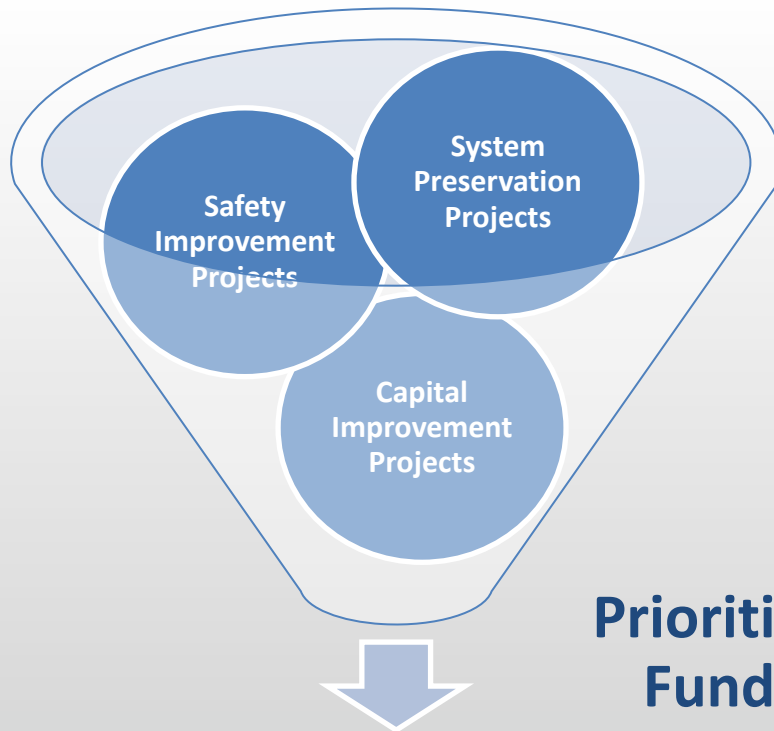
Planning

Purpose and Need

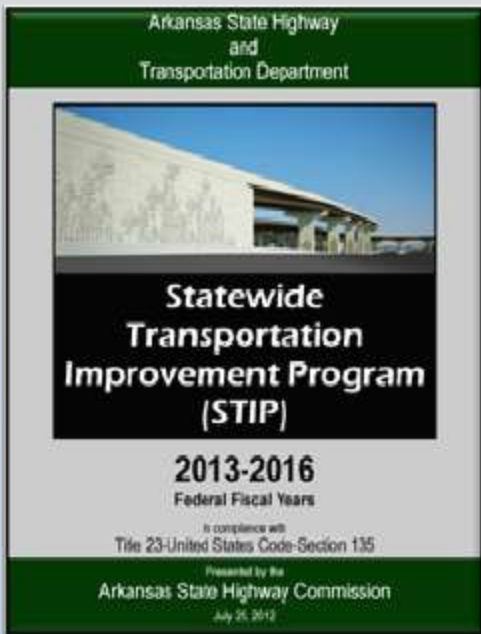
- **Highway Improvement Studies**
 - ✓ Corridors
 - ✓ Capacity
 - ✓ Safety
- **Data Driven System Wide Analysis**
 - ✓ System Preservation
 - Pavement
 - Bridges
 - Congestion
 - ✓ Safety



Scheduling



Prioritized Within the Funding Available





Scheduling

Arkansas State Highway
and
Transportation Department



Statewide Transportation Improvement Program (STIP)

2013-2016

Federal Fiscal Years

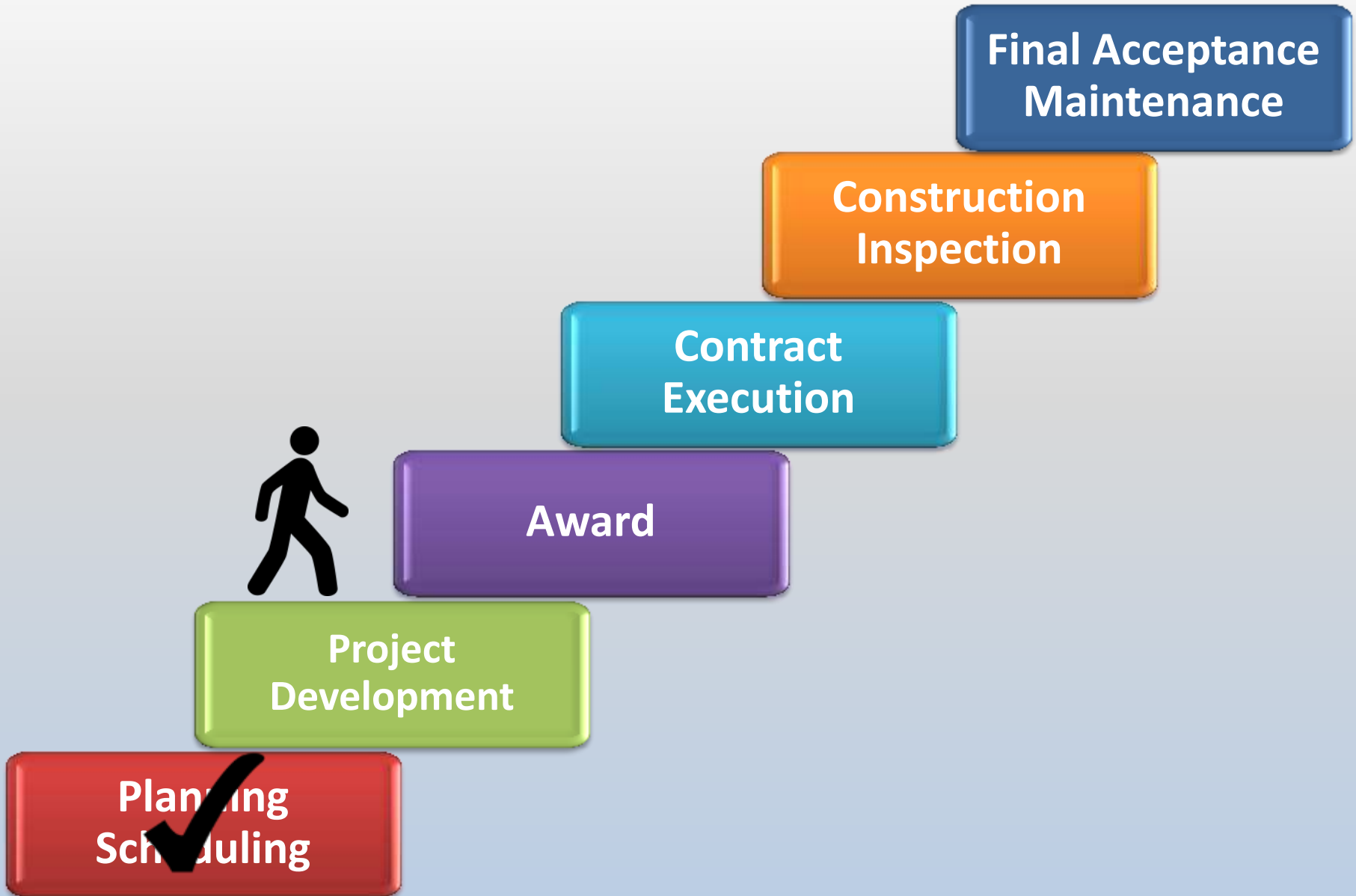
In compliance with
Title 23-United States Code-Section 135

Presented by the
Arkansas State Highway Commission

July 25, 2012

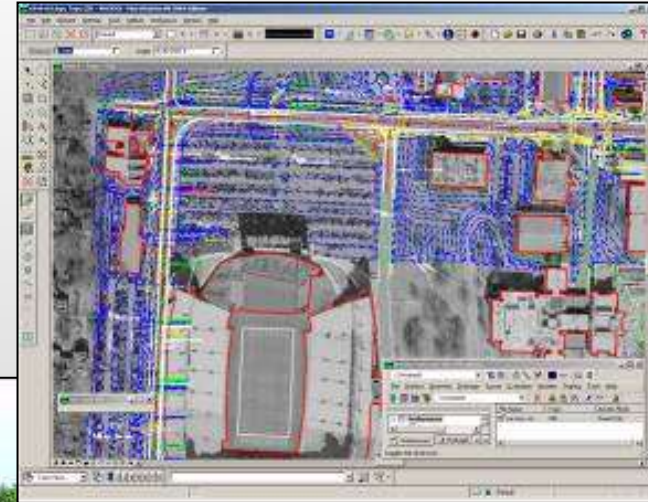


Project Lifecycle



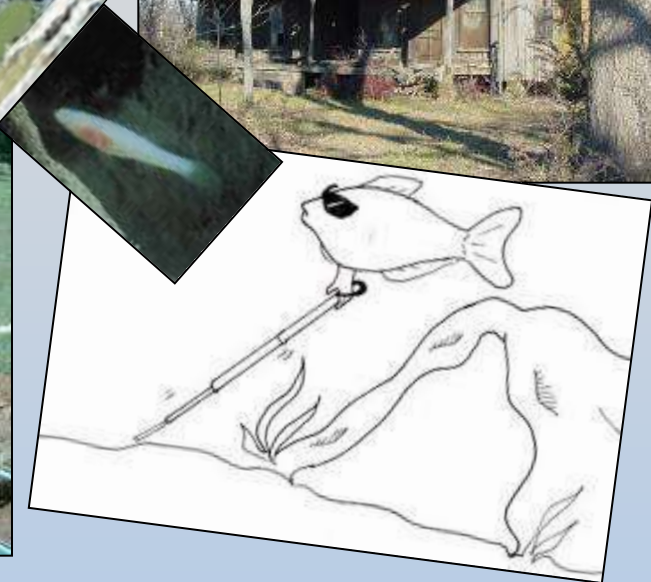
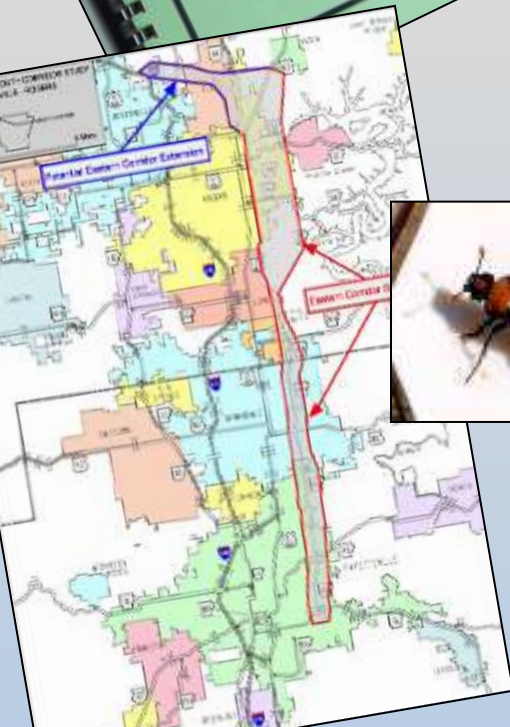
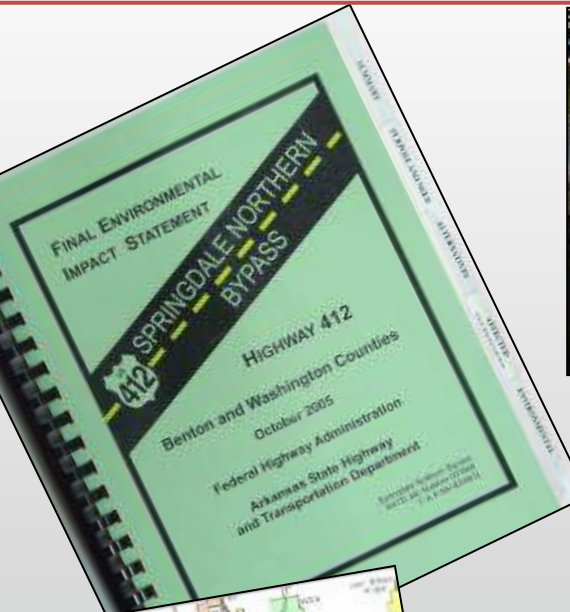


Surveys





Environmental Clearance



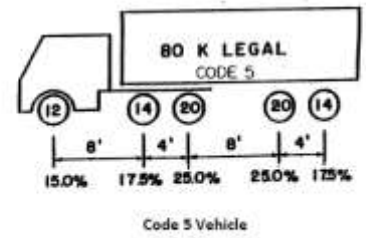
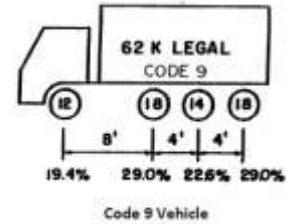
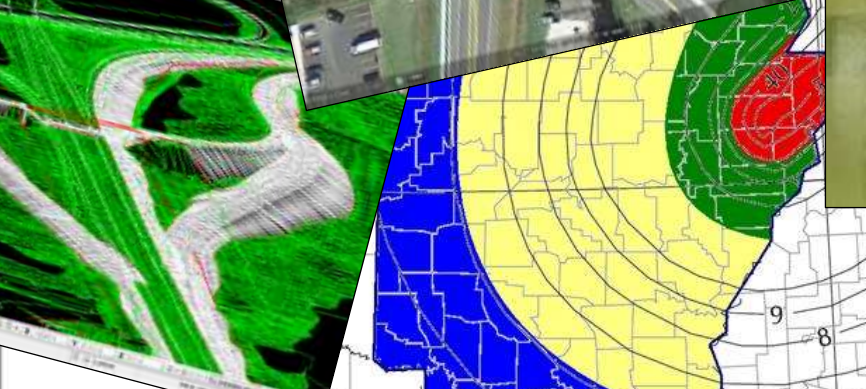
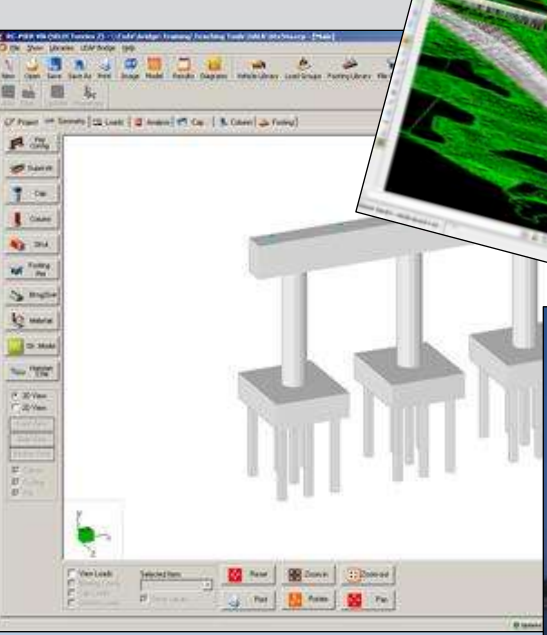
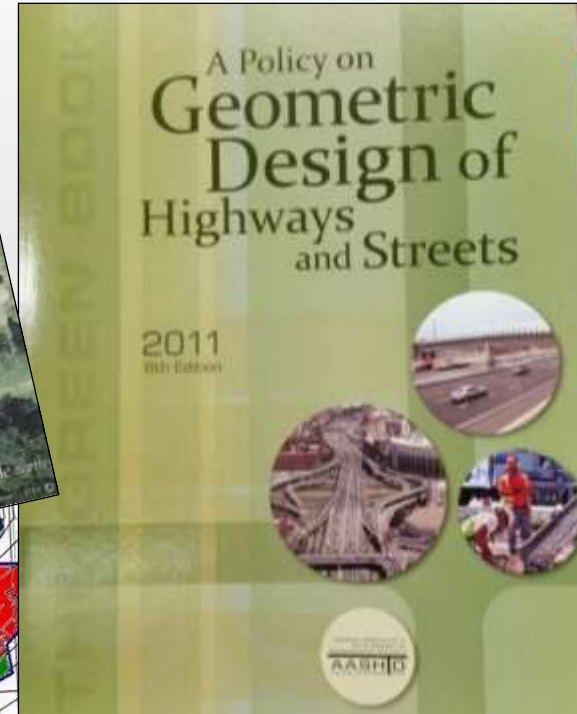
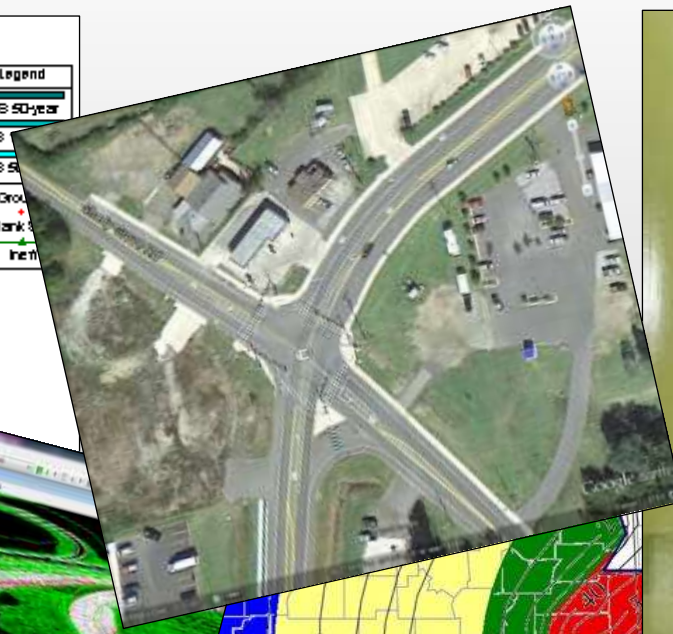
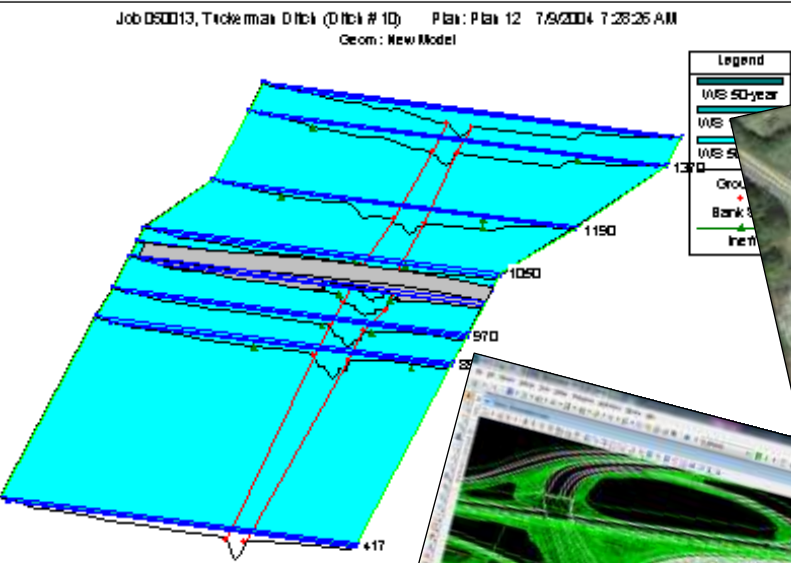


Materials Testing



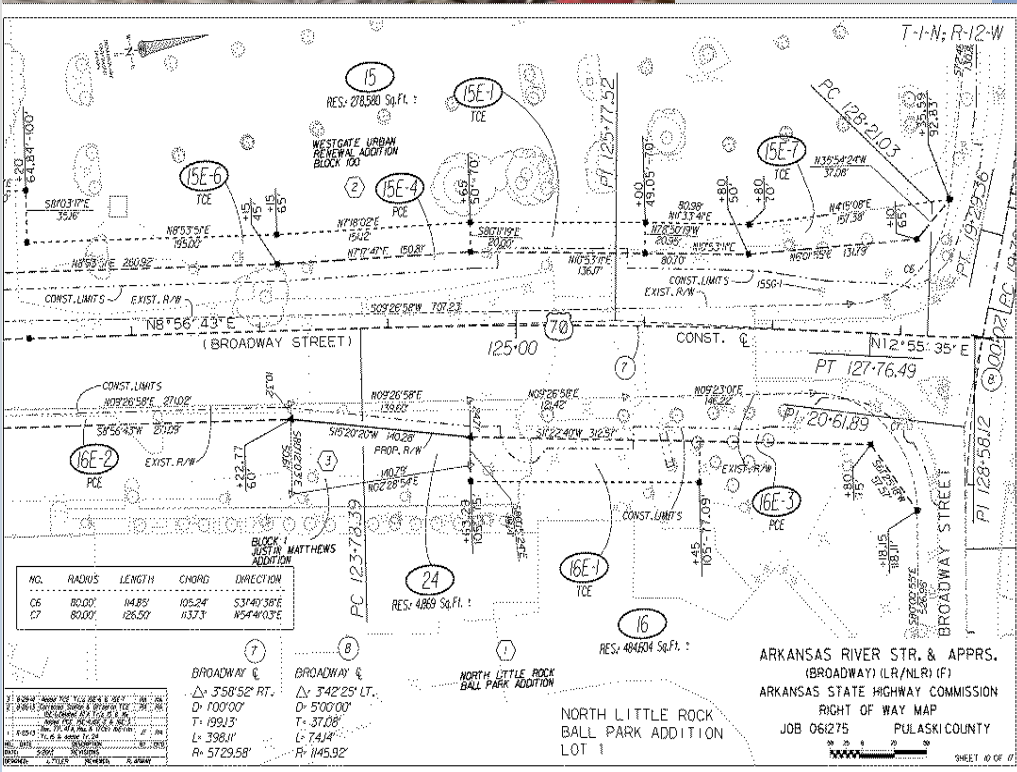


Design





Right of Way / Utilities





Plans / Specifications / Estimate

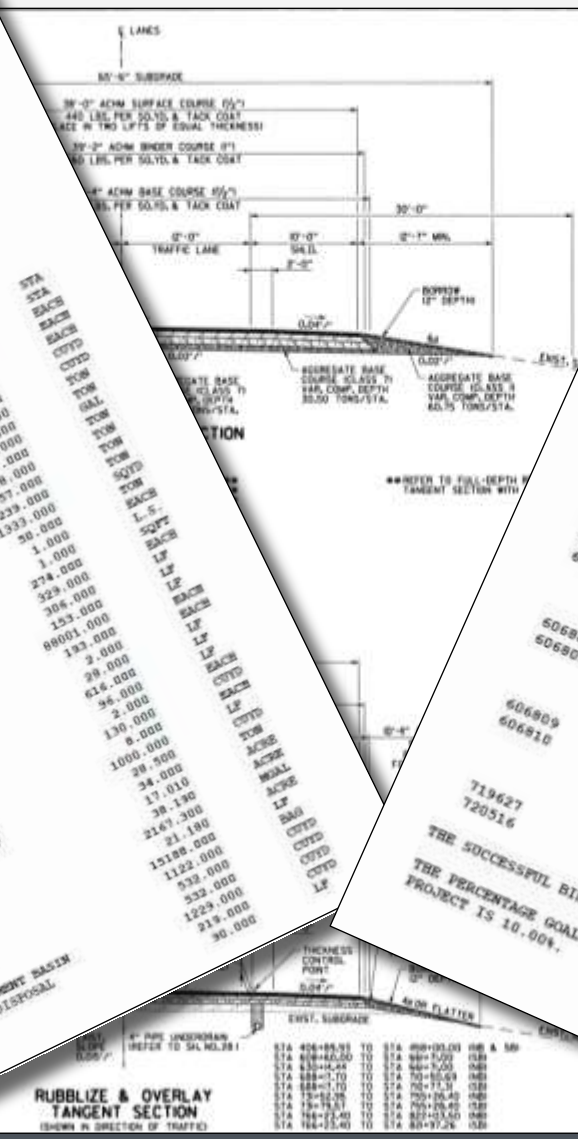
JOB 118957
 HWY. 131-NORTH (5)
 FEDERAL AID PROJECT STP-0018(00)

PROJECT IS TO WIDEN THE EXISTING 11' LANES TO 12' AND CONSTRUCT 6' LANES OF HWY. 147, SOUTHWEST OF WEST MEMPHIS IN CRITTENDEN COUNTY. THIS PROJECT INCLUDES: PAVEMENT RECONSTRUCTION, ACHM BINDER AND SURFACE COURSE STRUCTURES, MAINTENANCE OF TRAFFIC ITEMS, EROSION CONTROL, AND

ITEMS AND APPROXIMATE QUANTITIES ARE INVOLVED:

CLEARING	32.000	STA
GRUBBING	32.000	EACH
RAD OF SIGN FOUNDATIONS	6.000	EACH
RAD OF SIGNS	11.000	CYTD
UNCLASSIFIED EXCAVATION	21297.000	TOW
UNCLASSIFIED EMBANKMENT	18883.000	GAL
CONTRACTED STABILIZATION	100.000	TOW
SOIL STABILIZATION (CLASS 7)	12126.000	TOW
ACHM BASE COURSE	8229.000	TOW
ACHM BINDER (1")	18.000	SDTD
M.A. IN ACHM BINDER (1")	4357.000	TOW
M.A. IN ACHM SURFACE (1/2")	239.000	EACH
M.A. IN ACHM SURFACE (1/4")	1333.000	LF
ASPH. CONC. PATCH-MATCH	30.000	LF
COLD MILLING ASPHALT PMWT.	274.000	LF
COLD CONC. PATCH OFFICE	329.000	EACH
FURNISHING FIELD OFFICE	306.000	LF
MAINTENANCE OF TRAFFIC	153.000	LF
TRAFFIC DRUMS	89051.000	LF
FURN. 4INX6. FRCST CONC. BARS	2.000	EACH
PRECAST CONCRETE BARRIER	616.000	LF
RELO. PAVEMENT MARKINGS	96.000	LF
VERTICAL PANELS	130.000	LF
VERTICAL CLEAN OUT	8.000	CYTD
30" R.C. PIPE CULVERTS (CL. 3)	1000.000	TOW
24" SIDE DRAIN	29.000	ACRES
30" SIDE DRAIN	34.000	ACRES
30" FES R.C. PIPE CLVT.	17.010	CYTD
36" FES R.C. PIPE CLVT.	39.130	CYTD
SELECTED PIPE PROTECTORS	2167.300	CYTD
UNDERDRAIN OUTLET PROTECTORS	15198.000	CYTD
4" PIPE UNDERDRAINS	1122.000	CYTD
FVMT REPAIR 0/CLVT. (CONCRETE)	532.000	CYTD
SEEDING	532.000	CYTD
LIME	1229.000	CYTD
MULCH COVER	219.000	CYTD
WATER	90.000	LF
TEMPORARY SEEDING		
SILT FENCE		
SAND BAG DITCH CHECKS		
SEDIMENT BASIN		
COLLECTOR OF SEDIMENT BASIN		
DEBRIS REMOVAL & DISPOSAL		
ROCK DITCH CHECKS		
WATTLE (20")		

RUBBLIZE & OVERLAY
TANGENT SECTION
(SHOWN IN DIRECTION OF TRAFFIC)



TYPICAL SECTIONS OF IMPROVEMENT

621181	TRIANGULAR SILT DIKE	250
623001	SECOND SEEDING APPLICATION	17
624001	SOLID SCODDING	3111.000
626003	EROSION CONTROL	1.000
630001	ROADWAY CONTROL MATTING-3	5.000
637001	MAILBOXES	5.000
637011	MAILBOX SUPPORTS (SINGLE)	22001.000
718001	REFL. PAINT FVMT. MRK. WL (4")	21681.000
718101	REFL. PAINT FVMT. MRK. WL (4")	1.000
731061	TEMP. IMPACT ATTN. BARR.	1.000
731062	TEMP. IMPACT ATTN. BARR.	15.000
801101	CLASS 5 CONCRETE-ROADWAY	19.490
802016	REINF. STEEL-ROADWAY	1884.000
804001	REINF. STEEL-ROADWAY (OR 60)	1.000
801061	MOBILIZATION	
606030	30" R.C. PIPE CULVERTS (CL. 3)	126.000
606131	30" ASPH. C.C. ST. PIPE CLVT. -166	134.000
606230	30" AL. C.C. ST. PIPE CLVT. -166	134.000
606330	30" P.P.M.C.C. ST. PIPE CLVT. -166	134.000
606683	30" HIGH DENSITY POLYETHYLENE PIPE	134.000
606693	30" PVC PIPE	
606035	36" R.C. PIPE CULVERTS (CL. 3)	176.000
606136	36" ASPH. C.C. ST. PIPE CLVT. -148	189.000
606235	36" AL. C.C. ST. PIPE CLVT. -148	189.000
606335	36" P.P.M.C.C. ST. PIPE CLVT. -148	189.000
606684	36" HIGH DENSITY POLYETHYLENE PIPE	189.000
606694	36" PVC PIPE	
606807	30" FLARED END SECTION ALTERNATES	4.000
606908	30" PFS R.C. PIPE CLVT.	4.000
606909	30" PFS C. ST. PIPE CLVT.	4.000
606910	36" FLARED END SECTION ALTERNATES	
719627	36" FES R.C. PIPE CLVT.	
720516	36" FES C. ST. PIPE CLVT.	
	HIGH PERF. CONTRAST PAVEMENT MARKING YELLOW (4")	4.000
	INT. PREF. THERM. CONT. FVMT. MRK. TAPE YL (4")	4.000
	HIGH PERF. CONT. REQUIRED TO COMPLETE THIS CONTRACT WITHIN 95 WORKING DAYS.	320.000
	THE SUCCESSFUL BIDDER WILL BE REQUIRED TO COMPLETE THIS CONTRACT WITHIN 95 WORKING DAYS.	320.000
	PROJECT IS 10.00%.	
	HIGH PERF. CONTRAST PAVEMENT MARKING YELLOW (4")	
	INT. PREF. THERM. CONT. FVMT. MRK. TAPE YL (4")	
	HIGH PERF. CONT. REQUIRED TO COMPLETE THIS CONTRACT WITHIN 95 WORKING DAYS.	
	PROJECT IS 10.00%.	



Determining Contract Time

Calendar Days

Working Days

Fixed Completion Date

Road User Cost

Cost + Time

Incentives/Disincentives



Next 3 Lettings Report



Arkansas State Highway and Transportation Department Projects Currently Scheduled for the Next Three Lettings

Page 2 of 4

Current as of: 1/14/2016

Disclaimer: These dates are subject to change due to unforeseen circumstances. They are provided for informational purposes only. The Department will add or remove jobs as needed and/or adjust the scheduled letting dates for any reason.

County	Route	Job No.	Job Name	Type Work	Length	Cost Range
<u>Estimated Letting Date: May 11, 2016</u>						
Missoua	Hwy. 79	110540	White River Strs. Demo. & Removal (Clarendon) (S)	Bridge Removal	2.3	\$10 - \$15 Million
Crittenden	Hwy. 42	110567	Deer Bayou Str. & Apprs. (S)	Str. & Apprs.	0.3	\$1 - \$5 Million
Arkansas/Jefferson	Hwy. 11	020539	Bayou Melo Strs. & Apprs. (S)	Strs. & Apprs.	0.5	\$1 - \$5 Million
Polk	City Street	040659	Hwy. 71-Geyer Dr. (N Morgan St.) (Mena) (S)	New Location	0.3	\$1 - \$5 Million
Washington	I-49	880414	Porter Rd.-Hwy. 112/71B Widening & Intctng. Impvts. (S)	Major Widening	2.5	\$50 - \$75 Million
White	New	050249	Hwy. 36-Hwy. 16 (S)	New Location	3.7	\$10 - \$15 Million
Pulaski	Hwy. 67	061447	Beverly St. Noise Barrier Wall (Hwy. 67) (Jacksonville) (S)	Noise Barrier Wall	0.3	< \$1 Million
Calhoun	Hwy. 167	070283	Bangs Slough-Hwy. 172 (S)	Major Widening	3.9	\$15 - \$20 Million
Calhoun	Hwy. 167	070284	Hwy. 172-Hampton (S)	Major Widening	4.9	\$15 - \$20 Million
Benton	Hwy. 71B	090338	Dudeland Rd.-8th St. (Rogers) (S)	Major Widening	1.0	\$5 - \$10 Million



Advertising

Project Advertisement

- Usual Period
- Extended Period

Questions

- Contractors
- Suppliers





e-Construction





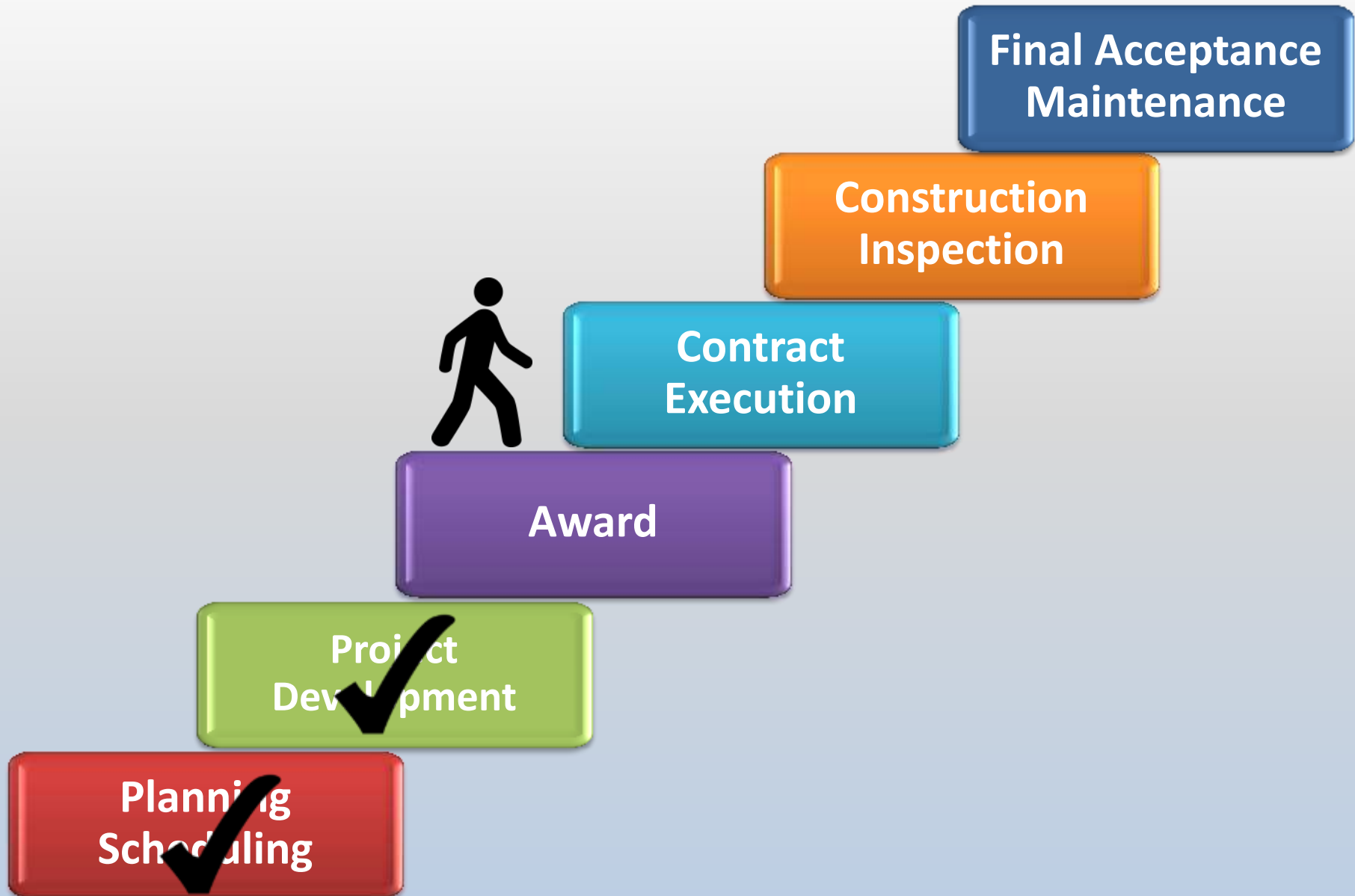
Bid Analysis

- **Compliance with State and Federal Regulations**
- **Evaluation of Bid**
- **Award or Reject**





Project Lifecycle





Conditional Award

01/15/16

Page 1 of 3

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT CONTRACTS AWARDED FROM LETTING OF JANUARY 13, 2016

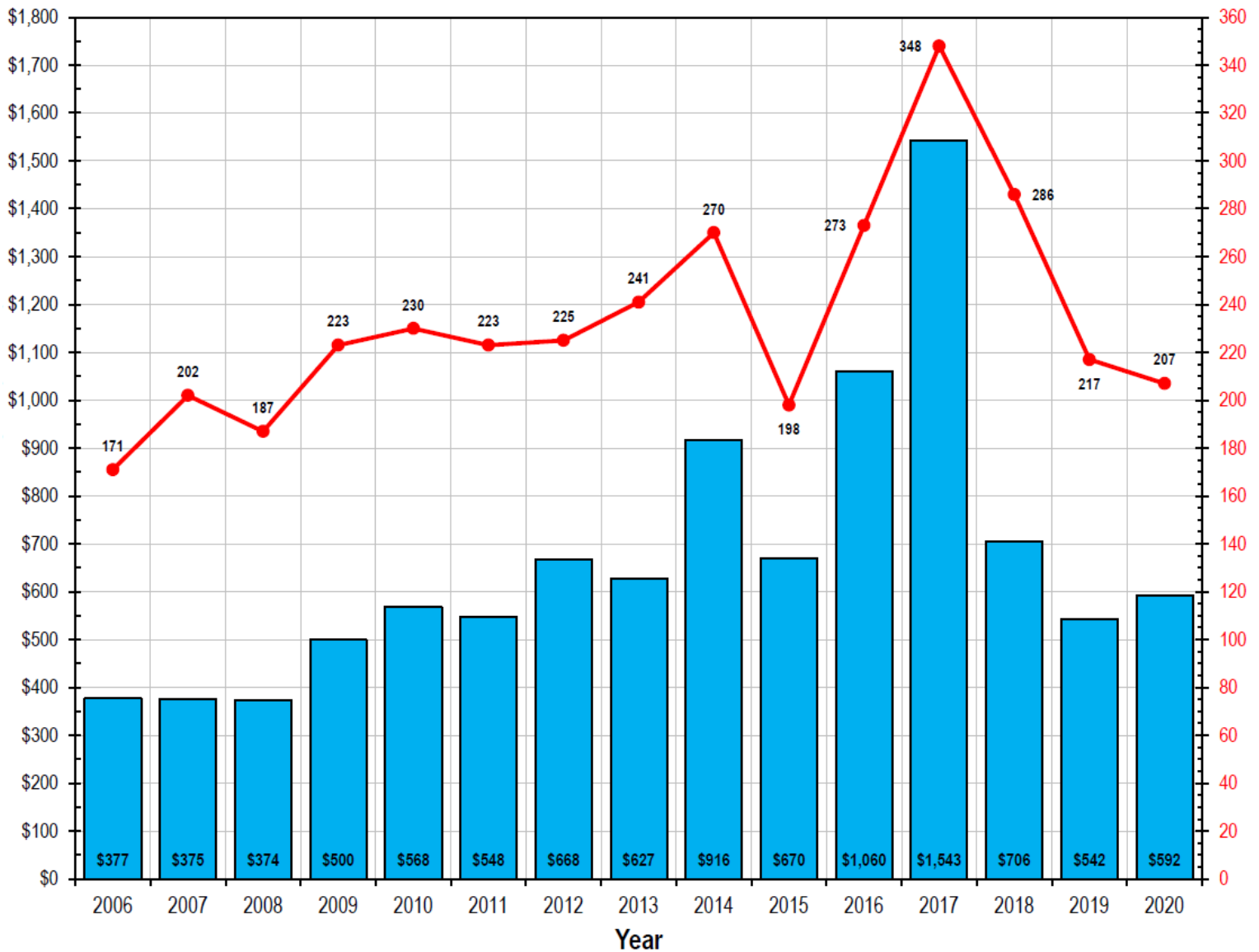
JOB NO.	STATUS	JOB NAME	ROUTE	CONTRACTOR	AMOUNT
110217 DISTRICT 01 LEE & PHILLIPS	06	WALNUT CORNER-CYPRESS CORNER (S)	1	CHANCELLOR BROTHERS, LLC 7474 RALEIGH LAGRANGE RD. CORDOVA, TN 38018-6224 9011754-2063 FAX 901/754-1987	\$24,599,486.31
110573 DISTRICT 01 ST. FRANCIS		L'ANGUILLE RIVER RELIEF STR. & APPRS. (S)	261	CENTRAL ARKANSAS CONTRACTORS, INC. P.O. BOX 164895 LITTLE ROCK, AR 72216 501/681-5840 FAX 501/374-2203	1,608,717.84
020419 DISTRICT 02 LINCOLN		WELLS BAYOU STR. & APPRS. (S)	54		ALL BIDS REJECTED
020562 DISTRICT 02 GRANT	06	BIG CREEK STR. & APPRS. (S)	270	MEHAFFY CONST. CO., INC. P. O. BOX 339 NO. LITTLE ROCK, AR 72115-0339 501/758-3030 FAX 501/758-8157	1,991,772.00



Letting Information

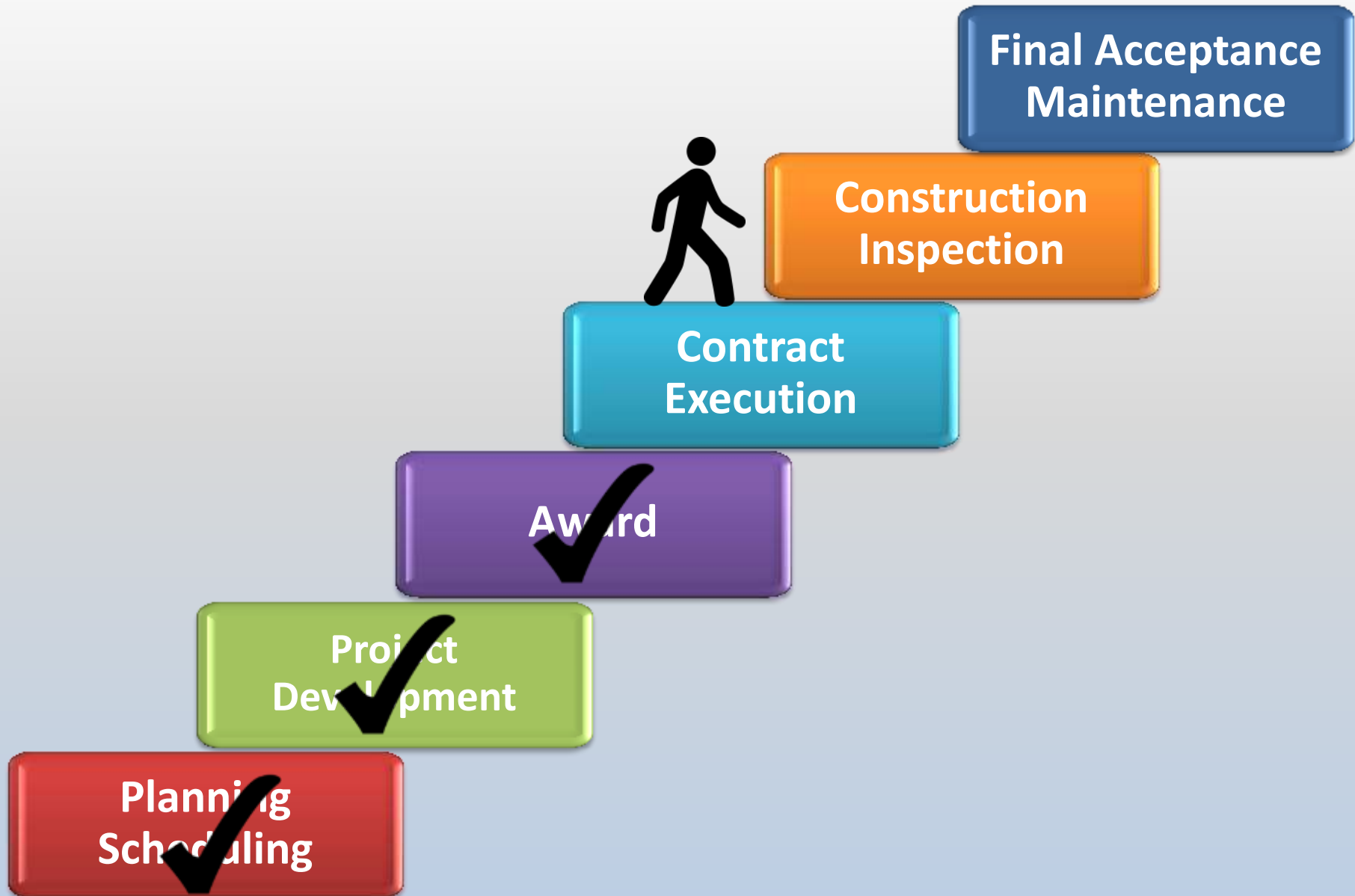
Total Cost of Projects

Total Number of Projects





Project Lifecycle





Contract Execution

Disadvantaged Business
Enterprise Commitment Form

Performance Bond

Payment Bond



BONDS



e-Construction

It is agreed and understood between the parties hereto that the Contractor agrees to accept and the Commission agrees to pay for the work at the prices stipulated in the Contract Schedule of Prices, such payment to be in lawful money of the United States, and the payment shall be made at the time and in the manner set forth in the Specifications.

WITNESS OUR HANDS, this date FEB 22 2012

CONTRACTOR

CRANFORD CONSTRUCTION CO.

BY: [Signature]

PRINTED NAME: Steve Crawford
(Must Be Legible)

ARKANSAS STATE HIGHWAY COMMISSION
BY: [Signature]
Director of Highways and Transportation



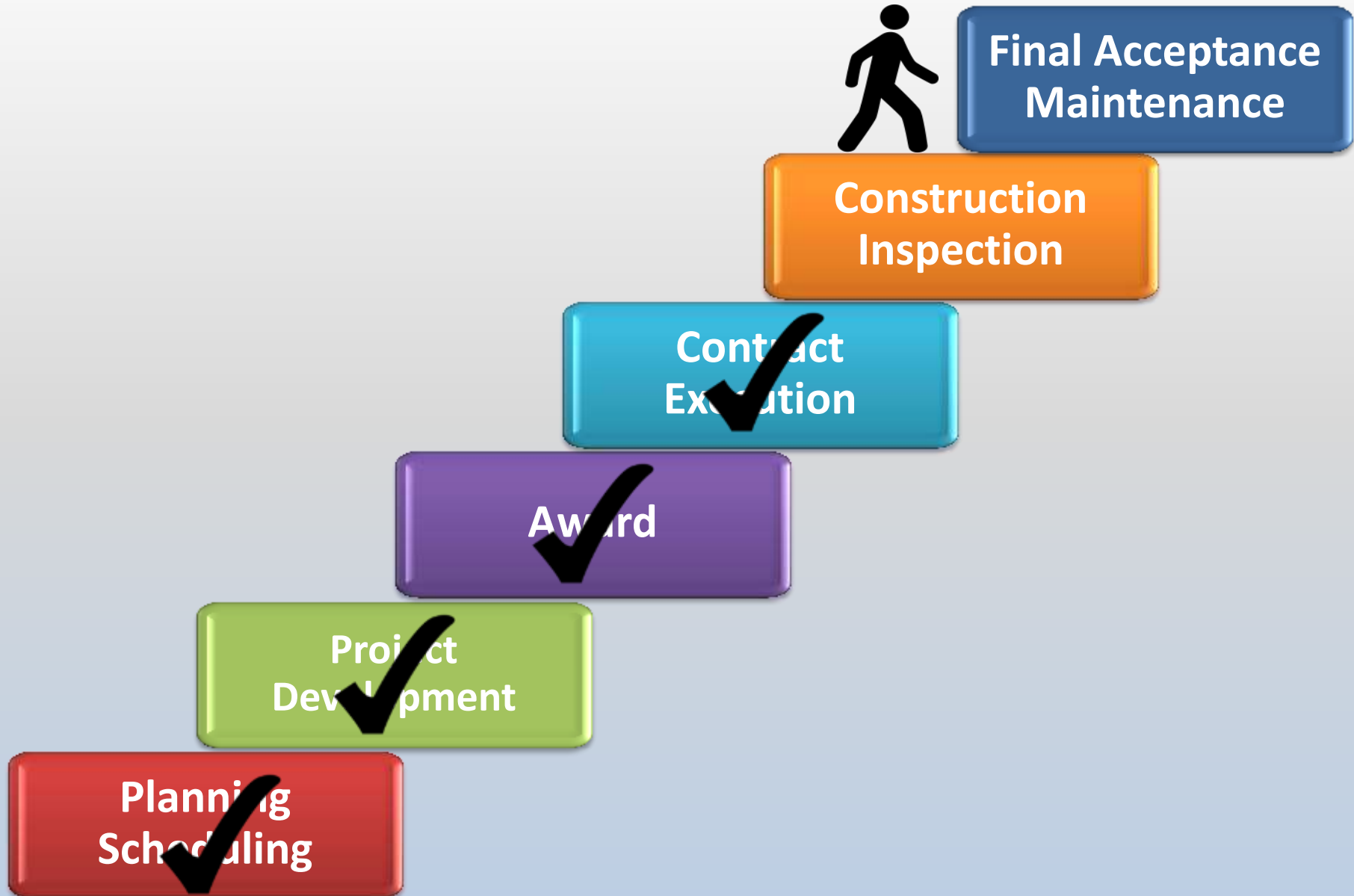
Doc Express Document Signing History

Contract: 061440 Document: 061440 CONTRACT

Date	Electronically Signed By
09/17/2015	Robert Jones M & T PAVING & CONSTRUCTION CO. INC. (SIGNED BY CONTRACTOR)
09/17/2015	Twandria Campbell Arkansas State Highway and Transportation Department (REVIEWED BY PROGRAM MANAGEMENT)
09/17/2015	Emanuel Banks Arkansas State Highway and Transportation Department (SIGNED BY DEPUTY DIRECTOR AND CHIEF ENGINEER)
09/18/2015	Lorie H. Tudor Arkansas State Highway and Transportation Department (SIGNED BY DEPUTY DIRECTOR AND CHIEF OPERATING OFFICER)
09/18/2015	Scott Bennett Arkansas State Highway and Transportation Department (SIGNED BY DIRECTOR)



Project Lifecycle





Construction Inspection

• Schedule

- Work Progress = Contractor's Responsibility
 - Fixed Completion Date
 - Working Days vs Calendar Days
- Critical Path Method Scheduling





Construction Inspection

- **Materials Testing**

- Quality Control
- Acceptance
- Verification





Construction Inspection

- **Inspection / Payments**

- Measured Quantities

- Payment to Contractor

- Acceptable Materials, Accuracy & Scheduling

AHTD Estimate Number: 0101 Arkansas State Highway And Transportation Department Page 1
Contract ID: 110503 Contract Voucher Summary Printed 03-01-2016
BE Office: 11 Pay Period Ending Date: 03/04/2013 Estimate Status - Approved
Spec Year: 2001

Description: ROC RDE & WHITE RIVER RELIEF STRS. & APPRS. (CLARENDON) (F)
Contractor: W.G. YATES & SONS CONST. CO. Time Charge: 305 Days
P.O. BOX 406 Contract Term: 400 Working Days
PHILADELPHIA, MS 39050 Percent Of Term: 91.25%

Contractor: W.G. YATES & SONS CONST. CO.
104 GULLEY AVENUE
PHILADELPHIA, MS 39050

Contractor: W.G. YATES & SONS CONST. CO.
500 W. MAIN STREET, 2ND FLOOR
TURREL, MS 39004

Project: Federal / State Project Number Description
110503 L1CD-0046-021 ROC RDE & WHITE RIVER RELIEF STRS. & APPRS. (CLARENDON) (F)

Awarded Contract Amount	\$34,873,250.16	Total To Date	Previous To Date	This Period	
Percent Of Work Completed	96.99%	Participating	\$30,131,462.42	\$20,829,155.15	\$302,307.27
		Non-Participating	\$0.00	\$0.00	\$0.00
		Total Earnings	\$30,131,462.42	\$20,829,155.15	\$302,307.27
		Materials Estimate	\$0.00	\$0.00	\$0.00
		Liquidated Damages	\$0.00	\$0.00	\$0.00
		Payment Adjustment	\$1,600,000.00	\$1,600,000.00	\$0.00
		Totals	\$31,731,462.42	\$31,429,155.15	\$302,307.27

Payment Due This Estimate \$302,307.27

Verified: _____ Voucher No: _____
Approved For Payment: _____ Construction Engineer Voucher Date: _____

Ver: 1/16/2016



Construction Inspection

• Change Orders

- Evaluation – Why?
 - Difference in Site Conditions
 - Price Reductions / Incentives
- Development of Change Orders
 - Negotiation
 - Discussion
- Authorization – Who?
 - Resident Engineers
 - District Engineers
 - Assistant Chief Engineer of Operations

ARKANSAS STATE HIGHWAY COMMISSION
CHANGE ORDER

Job Name _____ TAP No. _____
Job No. _____
Changes to: _____
DESCRIPTION OF CHANGE _____
REASON FOR CHANGE _____

Route & Section _____
County _____
Change Order No. _____

Item No.	Item	Unit	SUMMARY		PRESENT		REVISED	
			Unit Price	Quantity	Amount	Quantity	Amount	

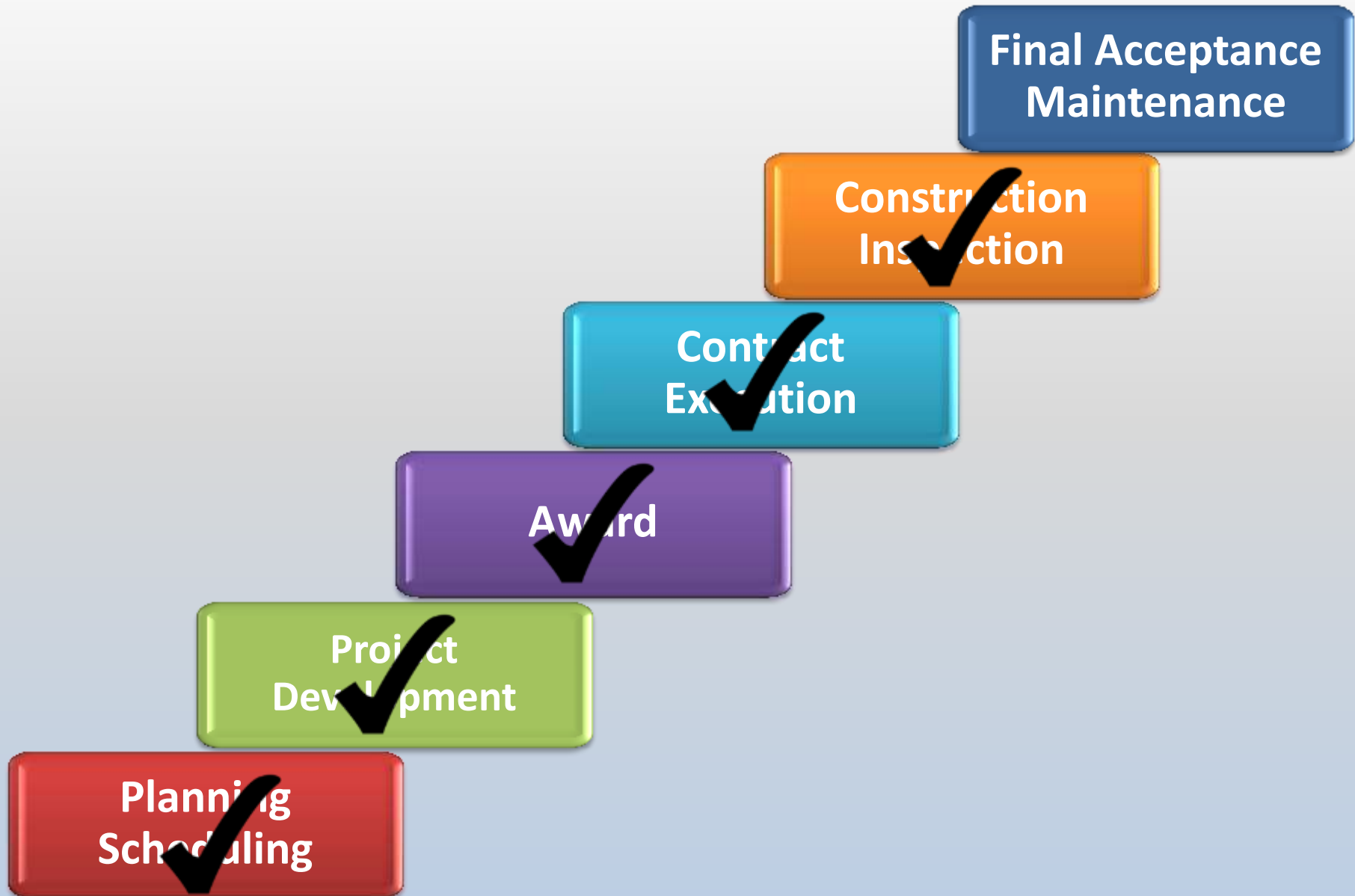
Recommended _____
District Engineer _____
APPROVED _____
David B. Henning, Construction Engineer
Authorized _____
Tony Sullivan, Assistant Chief Engineer

Requested _____
Resident Engineer _____

Oyler



Project Lifecycle



- **Final Inspection and Acceptance**

- Substantially Complete
- Punch List
- Final Inspection
 - All items completed and deficiencies corrected
- Project Acceptance: State Construction Engineer



Expediting



Contract Delivery



AHTD and AGC Partnering Agreement

PARTNERING AGREEMENT AHTD and AGC

Whereas, the Arkansas State Highway and Transportation Department (AHTD) and the Associated General Contractors of America, Arkansas Chapter (AGC), recognize the importance of providing quality surface transportation facilities in a safe, timely and cost-effective manner;

Therefore, we agree to continue our partnering efforts and to formalize the agreement through the following:

- Promote harmonious relationships throughout the industry, fostered in the concept of mutual trust and respect;
- Foster an inclusionary industry that ensures full and open opportunity for all to participate and for responsible businesses to compete in an open, competitive bid environment;
- Promote quality through continuous improvement at all stages of the design and construction process;
- Cooperatively promote and encourage the use of new products, technology and processes that provide a demonstrated level of improved quality;
- Promote prompt and fair dispute resolution by opening communications through the use of partnering;
- Deliver surface transportation facilities in a manner that is environmentally responsible in both design and construction; and
- Ensure that the safety of the public and our employees will be a prime concern in delivering transportation facilities.

By following these principles, we can build customer satisfaction, enhance the quality of our work and deliver a top quality product in which we can take pride.

Signed this 16th day of October 2011

Arkansas State Highway
and Transportation Department

Associated General
Contractors of America,
Arkansas Chapter

Madison Murphy
Madison Murphy
Commission Chairman

Brad Fryar
Brad Fryar
President

Scott E. Bennett
Scott E. Bennett
Director of Highways and Transportation

Mark Winkle
Mark Winkle
Highway Division





Efforts to Expedite Construction



**Get In
Get Done
Get Out**

**Incentives/Disincentives:
90 projects with Cost + Time
completed since 2010**



**63 w/incentives - \$13M
19 w/disincentives - \$7M**

**Flexible
Beginning of Work**



Efforts to Expedite Construction

Reduce Projects in Overtime

- 568 projects (last 2 years)
- 83 (15%) in overtime
- 85% on time or ahead of schedule



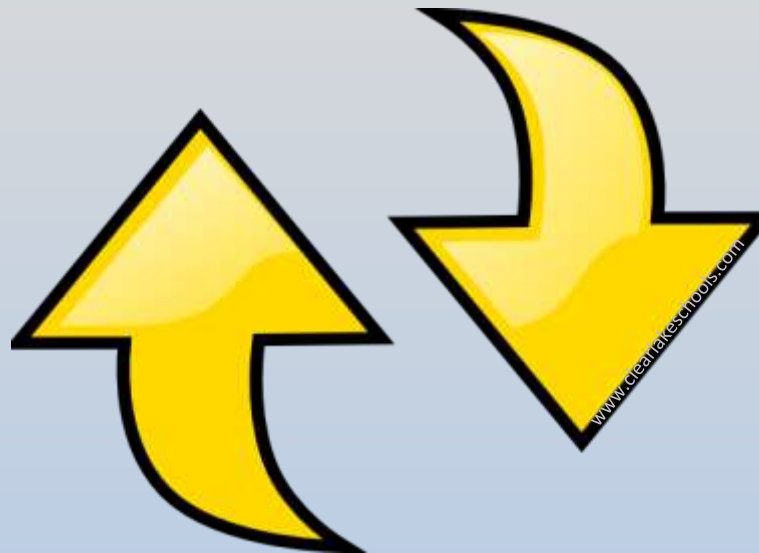


“Flipped” Awards

14 out of 141 Projects Flipped

\$ 5.2 million in Additional Cost

Contract Time Reduced by 884 Days





- ArkansasHighways.com
- ConnectingArkansasProgram.com
- Vimeo.com/AHTD
- IDriveArkansas.com
- [Twitter.com @AHTD](https://twitter.com/AHTD)



@AHTD

