PROJECT DELIVERY ACADEMY MODULE 5: PROJECT ADVERTISING AND CONSTRUCTION CONSTRUCTION (District Coordination)

Presented by:

Andrew Roth

Assistant District Engineer Northwest District





Todd Steinberger - Asst. DE - Development

Mohave Area

Luke Brazdys – Senior RE Darin Dryden - RE

Nathan Escoffier - Dev. TES

Sam Massey - Permits Supvr.

John Casey - Senior Trans. Engr.

Gabe Alvarado-Maintenance Supt.

Michele Beggs - Community Relations

ADOT Engineering and Maintenance District Northwest - Maintenance Organization Kingman ADOT Seligman Meedle Min W kileup Junellon Wiekenburg Cities and Towns - State Highway System County Boundary Maintenance Organization

Yavapai Area

Alvin Stump – District Engineer

Andrew Roth - Asst. DE - Construction Joshua Wentzlof - Senior RE Kara Lavertue - RE John Litteer – Senior Trans. Engr. Toni Middleton - Dev. TES Bruce Cooper - Maintenance Supt.

Richard Perez - Permits Supvr.

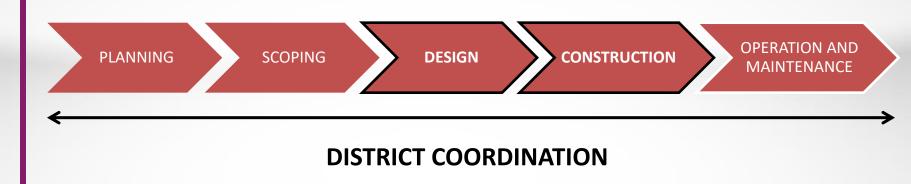
Deborrah Miller - Community Relations
Chuck Budinger - Environ. Coordinator
Robert LaJeunesse – Northern Region

Traffic Engineer



INTRODUCTION

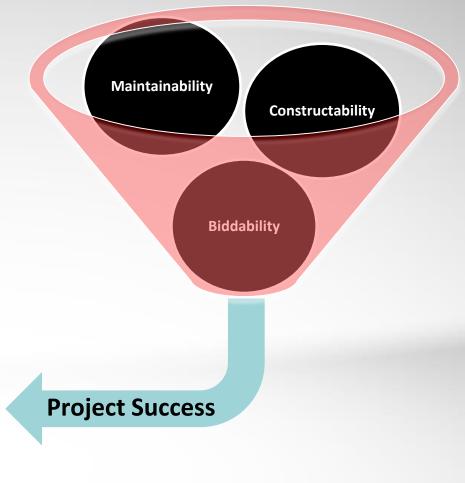
The goal of this session is to cover construction district coordination during project development and during construction.













PRESENTATION CONTENT

District Coordination During Project Development

Clearances and Agreements

Clearances and Agreements

Supplemental Agreements

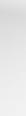
Project Advertisement and Post-Award

Construction Administration and Post Design

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Project Manager Roles and Responsibilities

Manager Roles and Responsibilities



PROJECT DELIVERY ACADEMY

MODULE 5: CONSTRUCTION

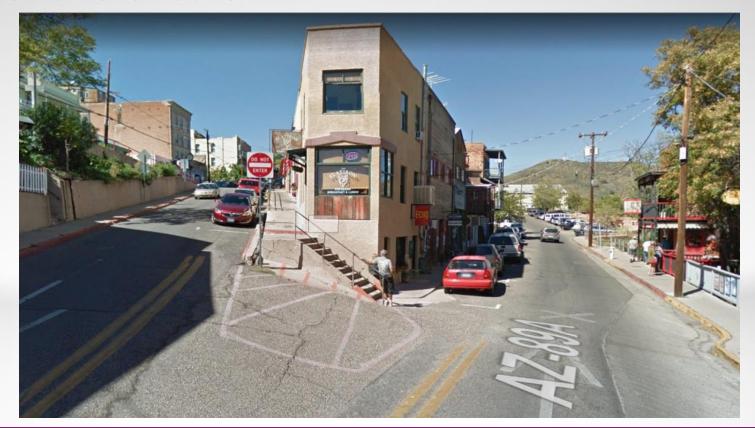
District Coordination During Project Development

- Input on Design Alternatives and Project Delivery Method
- Constructability Reviews and Maintenance Concerns
- Specifications and Contract Requirements
- Traffic Control Closures, Restrictions
- Schedule / Contract Time / Seasonal Shutdowns
- Phasing and Sequencing
- Liquidated Damages / Intermediate Milestones
- Earthwork Coordination / Material Sources / Suppliers
- ADA Issues / ADA Transition Plan



















District Coordination During Project Development

- > Field Reviews
- Value Engineering
- > Permits
- Environmental Mitigation Measures
- > Agreements Utility, ROW, Environmental, JPA's / IGA's, etc.
- ➤ Other: Sole Source Products, Warranty Requirements, etc.



Clearances and Agreements

- Utility Clearance and Utility Agreements
- Railroad Agreements and Permits
- Environmental Clearance
- Right-of-Way Clearance
- Joint Project Agreements / Intergovernmental Agreements
- Tribal Agreements



Project Advertisement and Post Award

Plans, Specifications and Estimate (PS&E)

- Advertisement Coordination
- Quantity Breakdown / Calculations
- Reports (Geotechnical, Drainage, Noise, Asbestos Containing Material and Lead-based Paint), Cross Sections, etc.
- Cost Risk Assessment Risk Register
- Addendums and attachments to the Special Provisions
- Post Design Contract
- CE Costs / Below the Line Costs



AGREEMENT ESTIMATE RECAPITULATION

CREATED: REVISED:

ENGINEER:

DESCRIPTION		FHWA CODE	CONTRACTOR'S BID	FEDERAL PARTICIPATION	FEDERAL FUNDS 94.30%	STATE FUNDS 5.70%	LENGTH IN MI
ROADWAY PATH TRAINEES		4 28 42	1,467,525.58 734,006.12		1,383,876.62 692,167.77	83,648.96 41,838.35	1.260
SUBTOTAL			2,201,531.70	2,201,531.70	2,076,044.39	125,487.31	1.260
CONSTRUCTION ENGINEERING CONSULTANT SERVICES CONSTRUCTION CONTINGENCY PAVEMENT INCENTIVES AC SMOOTHNESS AC QUALITY LOT PCCP SMOOTHNESS PCC QUALITY LOT	\$9,000.00 per Lane-Mile \$1.50 per Ton \$7,000.00 per Lane-Mile \$1.50 per Sq. Yd.	17 17	308,214.43 22,015.32 110,076.59	22,015.32	290,646.20 20,760.45 103,802.22	17,568.23 1,254.87 6,274.37	
OTHER INCENTIVES							
FLAGGING SERVICES DPS OFFICERS RAILROAD/OTHER		21 21					
OTHER							
PROJECT TOTAL:			2,641,838.04	2,641,838.04	2,491,253.26	150,584.78	1.260



Project Advertisement and Post Award

Post Award – Construction Office Needs

- Approved Post Design Contract
- Quantity Breakdown / Calculations
- Reports (Geotechnical, Drainage, Noise, Asbestos Containing Material and Lead-based Paint), Cross Sections, etc.
- Agreement Estimate (Recalculate / Verify all line item costs)



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AGREEMENT ESTIMATE

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PROJECT: SECTION:

1 (21) CHIP SEAL COAT

ltem No.	Item Description	Unit	Quantity	Unit Price	Extended Amount
7040077	PAVEMENT SYMBOL (EXTRUDED THERMOPLASTIC)(ALKYD)(0.120")	EACH	1	\$135.00	\$135.00
7060015	PAVEMENT MARKER, RAISED, TYPE D	EACH	15	\$25.00	\$375.00
7080001	PERMANENT PAVEMENT MARKING (PAINTED) (WHITE)	L.FT.	360,000	\$.08	\$28,800.00
7080011	PERMANENT PAVEMENT MARKING (PAINTED) (YELLOW)	L.FT.	360,000	\$.08	\$28,800.00
7080101	PERMANENT PAVEMENT MARKING (PAINTED SYMBOL)	EACH	1	\$280.00	\$280.00
9010001	MOBILIZATION	L.SUM	1	\$46,630.00	\$46,630.00
9250001	CONSTRUCTION SURVEYING AND LAYOUT	L.SUM	1	\$26,060.00	\$26,060.00
9280036	GROUND-IN RUMBLE STRIP (8 INCH)	L.FT.	29,000	\$.33	\$9,570.00

\$2,269,602.05 Part Subtotal:

\$2,269,602.05 Section Subtotal CHIP SEAL COAT:

> PROJECT TOTAL: \$2,269,602.05



Construction Administration

- Construction Kickoff Partnering and Preconstruction Meetings
- Construction Progress Meetings
- Coordination with RE's, adjacent projects, and others
- Post Design Process
- Supplemental Agreements



Post Design Services

Post Design Services are the services provided by the designer of record after Board award of the project to the Contractor until project closeout.

Past Process:

PDS Budget is established at:

- ➤ 1% for Projects < \$ 20M
- > 0.5% for Projects > \$20M
- Other Special Circumstances



Post Design Services

Current Process:

PDS Budget needs to be developed and requested

- No longer automatic percentage of contract
- Can request budget for fixed amount
 - e.g. contracts with specialty inspections (Structural Steel)
- Approval of Contract Mods
 - ❖ Within budget generally no issues
 - Over budget need to discuss with State Construction Engineer prior to submitting



Post Design Services

Post Design Scope of Work

- Meetings and Site Visits
- Review and Approve
 - RFI's
- Shop Drawings and Submittals
- Design Revisions and Modifications
- Coordination with Stakeholders, Utility Companies, Technical Groups, and Other Designers
- Record Drawings (As-Builts)



Supplemental Agreements

A written agreement between the Department and the Contractor covering work not otherwise provided for in the contract, for extensions or reductions of contract time or revisions in or amendments to the terms of the contract. A Supplemental Agreement becomes a part of the contract when signed by the Contractor and the Department.



Supplemental Agreements

Types of Supplemental Agreements

- Letter of Agreements
- Change Orders (including Procedural Change Orders)
- Force Accounts
- Time Extensions

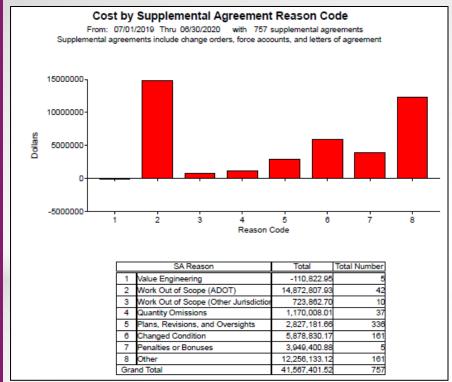


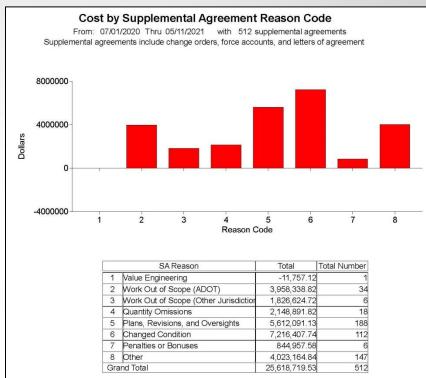
Supplemental Agreements

Supplemental Agreement Reason Codes

- 1. Value Engineering
- 2. Work Out of Scope (ADOT)
- 3. Work Out of Scope (Other Jurisdiction)
- 4. Quantity Omissions
- 5. Plans Revisions / Oversights
- 6. Changed Condition
- 7. Penalties or Bonuses
 - 8. Other









Project Manager Roles and Responsibilities

- Review SA's and provide input / approval
- ➤ Assist RE's during post design process with design changes and specification changes
- > Technical group's coordination
- ➤ Construction Bulletin 04-01 Consultation with Technical Managers on Proposed Supplemental Agreements
- > Acceptance and Maintenance Handoff



Supplemental Agreement Tracking System (SATS)

FAST – Supplemental Agreement Tracking System (SATS)





Reports

- > SA Tracking by Project
- Detailed CO / LOA / FA Project Report
- SA Reports and Graphs by Reason Code
- > Error and Omission Report



PROJECT DELIVERY ACADEMY
MODULE 5: PROJECT ADVERTISING AND CONSTRUCTION

CONSTRUCTION (District Coordination)





PROJECT DELIVERY ACADEMY
MODULE 5: PROJECT ADVERTISING AND CONSTRUCTION

CONSTRUCTION (District Coordination)

THANK YOU

