



**NEVADA  
DOT**

***SAFE AND CONNECTED***



# Project Delivery, Utilizing Consultants, and Backlog

Nevada Department of Transportation  
Board of Directors March 11, 2016

John M. Terry, P.E.  
Asst. Director Engineering





# NDOT Use of Consultants

- Resources available for NDOT to deliver projects
- Historically how we deliver projects
- Use of consultants
- Consultant selection and backlog
- Challenges and costs moving forward



## NDOT Resources for Project Delivery

Most design projects delivered by Roadway Design and Project Management

Traffic Safety and Traffic Operations also design projects

Approximately one-third of Engineering Staff time dedicated to administering State and Federal programs not allocated to projects

Engineering Divisions personnel budget for FY 2016 \$26 million

	Staff	Vacancies
<u>Engineering Divisions</u>		
Roadway Design	67	14
Specifications	15	1
Structures	27	4
Hydraulics	16	1
Environmental	17	7
Location	52	4
ROW	66	14
Project Management	12	2



# NDOT Use of Consultants

- NDOT has staff in most disciplines to deliver projects
- Core competency major disciplines
- Require consultants for base program and peaks
- In the middle for State DOT's
- Need consultants for large projects and Alternative Delivery (DB and CMAR)



# Consultant Usage

State FY	Agreements	\$ Value	Consultants \$ Paid	Comments
2017 (est.)		\$100 mil.	\$80.0 mil.	
2016 (est.)		\$80 mil.	\$60.0 mil.	
2015	272	\$64.3 mil.	\$25.5 mil.	NEON, USA Pkwy
2014	234	\$50.7 mil.	\$33.0 mil.	
2013	225	\$102.4 mil.	\$38.1 mil.	NEON
2012	271	\$98.1 mil.	\$67.7 mil.	
Avg 2006-2011	192	\$146.8 mil.	\$52.8 mil.	ARRA, I-15S, I-580



# NDOT Use of Consultants

- Per NRS and CFR consultant selection for engineering work cannot be based upon price
- Request for Proposal for all project agreements currently
- Select based upon Qualifications, Approach, Understanding of Project
- Some consideration for workload (backlog)



# NDOT Use of Consultants

- Many agreements are for full design of entire project
- Some agreements are for design of a part of the overall design contract
- NDOT self performs most, but not all, smaller contracts
  - Under \$10 million
  - 3R
  - District Contracts
- NDOT does self perform, with limited consultant assistance, large, urban, freeway projects.
  - I-11 BCB Phase 1 - \$92 million
  - US 95 Phase 3, NE and WS Ramps - \$45 million
  - US 95 Phase 2C/5 - \$62 million (est.)



# NDOT Project Management

- The largest, most complex projects are managed by the Project Management Division
- All alternative delivery projects (DB and CMAR) are administered by the PM Division
  - Division Head, Asst. North, Asst. South
  - 4 Project Managers North (CC) with 2 vacancies
  - 4 Project Managers in South (LV)
- Other projects managed by various divisions (Roadway Design, Structures, L&A, Traffic Operations)



# NDOT Construction Management

- NDOT construction crews for administration of construction contracts
- Resident Engineer in charge of construction crew
- Average crew size is 15 employees
- 9 crews in District 1
- 5 crews in District 2
- 3 Crews in district 3



# NDOT Construction Management

- NDOT Construction Division procures consultants for administration of construction contracts two ways:
  - Full Administration – full construction administration
  - Crew Augmentation – survey, inspection, and testing augmentation of a NDOT Construction Crew



# NDOT Construction Program

State FY	# of Contracts Awarded	\$ Awarded	Contractor Pay	Comments
2017 (est.)		\$400 mil	\$480 mil.	Includes NEON, USA Pkwy, I-15/US 93
2016 (est.)	YTD - 30	\$800 mil	\$340 mil.	Includes NEON, USA Pkwy
2015	31	\$241 mil	\$201 mil.	
2014	38	\$186 mil	\$200 mil.	
2013	34	\$200 mil	\$303 mil.	
2012	43	\$232 mil	\$536 mil.	ARRA, I-580, I-15S DB
Avg 2006-2011	29	\$311 mil	\$428 mil.	ARRA, I-580, I-15S DB



# Consultant Backlog

Consultants with Active Agreement Values (listed individually if current value >\$1million)

Consutant	# Agreements	Awarded Agreement \$	Active Agreement \$	Projects
CH2M	6	\$62,427,439	\$24,870,315	NEON
DCS	3	\$24,495,375	\$22,193,138	NEON CM, I-11 BCB CM
CA Group	6	\$11,827,775	\$8,160,538	SR 160, US 95 2A, I-80/580/US 95
Jacobs	5	\$13,915,267	\$6,360,960	USA Pkwy, I-515, Trop. Ped Bridges
HDR	4	\$9,457,529	\$6,053,411	US 95/215, USA Pkwy.
Parsons	4	\$8,303,592	\$5,641,881	I-580 CC Bypass, TIM
Stanley	7	\$9,946,304	\$4,208,527	Bridge Insp., Stormwater
URS	1	\$3,979,350	\$3,979,350	SR 604 Las Vegas Blvd Admin
Kimley Horn	10	\$8,194,973	\$2,701,273	I-15, CSS, ITS
Horrocks	5	\$1,421,982	\$1,081,327	I-15 Starr
Atkins	7	\$2,540,811	\$886,969	215/95 L&A, ICE. I-2871
Other Engineering	14	\$4,779,295	\$2,680,990	



# Looking Ahead

- Many consultant procurements in the works
- Bring back on-call program
- Continue with alternative delivery
- Prepare for FRI2 in Clark County and FRI in other counties
- Increase budget for engineering and construction administration consultant services in FY 2017



# NEVADA DOT

***SAFE AND CONNECTED***



[www.nevadadot.com](http://www.nevadadot.com)

