

# Engineering & Design Conceptual Estimate

Estimate ID or WO # (CUE # if applicable)	n/a	Estimate Need Date		Estimate Completed Date	5/6/2016
Division	SW - Yuma	Resp. Unit		Requested By	
Project Name	Yuma Fleet Center				
P&N / Description	Relocate APS facilities into Quechan Sub. City of Yuma building a new fleet center, APS facilities to be relocated to property boundaries.				
Scope of Work	Relocate 69kV in the City of Yuma property, and build it on the site boundaries to accommodate all new facilities/buildings for the new city of Yuma Fleet Center. Option 2				
Assumptions & Risks	Easement to follow the 13th Street and 1st Ave				

Project Durations and High level schedule				
Targeted In-Service Date		10/1/2017		
Project Elements	Y/N	Duration (MO)	Max	Est start dates
Is siting required	Y	18	18	3/26/2013
Is land required	Y		6	3/23/2017
Easements	Y	6		
ROW	Y	6		
Permitting	Y		36	10/5/2014
City	Y	2		
County	Y	2		
ADOT	Y	4		
MCDOT	Y	4		
BLM	Y	24		
State Land	Y	24		
Forestry	Y	18		
BIA	Y	36		
Other	Y			
Engineering	Y		0.375	9/17/2014
Overhead	Y	0.38		
Underground	Y	0.00		
Substation	Y	0.00		
Long Lead Equipment	Y		6	3/23/2017
OH	Y	6		
UG	Y	6		
Substation	Y	Select		
Construction	Y		0.372	9/19/2017
Overhead	Y	0.37		
Underground	Y	0.00		
Substation	Y	0.00		
P&C	Y			
Civil Construction	Y			
Communication	Y			

Total Duration (Months) with siting	55
Total Estimated Duration (Months)	37
Latest Project Siting Start Date	3/26/2013
Latest Engineering Start Date	9/17/2014
Latest Permit submittal Date	10/5/2014
Latest Construction submittal Date	9/19/2017

Required Resources	Y/N
Overhead Design	Y
Underground Design	Y
Substation Design	Y
Underground Construction	Y
Overhead Construction	Y
Substation Construction	Y
Shared Services (hole digging)	Y
Inspector	Y
PMAC	Y
P&C	Y
Communication	Y
Environmental	Y
Land Agent	Y
ROW Agent (Permits)	Y
Siting Agent	Y

Ranking	Project Option 2
DESCRIPTION	Rating
Safety Implications	
Voltage Performance	
Load Demands	
Reliability	
Customer Impact	
Operational Impact	
Cost Benefit	
Environmental Impact	
<b>Totals</b>	<b>0</b>

Project Costs - Option 2		
OVERHEAD		
Labor cost (30% of total)	Eng. In House	\$34,042.25
	Const. In House	\$193,851.67
	<b>Total</b>	<b>\$227,893.92</b>
Material cost		\$390,183.13
Outside services cost	Engineering	\$0.00
	Construction	\$0.00
	<b>Total</b>	<b>\$91,973.61</b>
Other cost		\$30,453.49
WO Authorization		\$740,504.15
Construction Overheads		\$114,987.61
Total cost		\$855,491.76
UNDERGROUND		
Labor cost (30% of total)	Eng. In House	\$0.00
	Const. In House	\$0.00
	<b>Total</b>	<b>\$0.00</b>
Material cost		\$0.00
Outside services cost	Engineering	\$0.00
	Construction	\$0.00
	<b>Total</b>	<b>\$0.00</b>
Other cost		\$0.00
WO Authorization		\$0.00
Construction Overheads		\$0.00
Total cost		\$0.00
SUBSTATION		
Labor cost (30% of total)	Eng. In House	\$0.00
	Const. In House	\$0.00
	<b>Total</b>	<b>\$0.00</b>
Material cost		\$0.00
Outside services cost	Engineering	\$0.00
	Construction	\$0.00
	<b>Total</b>	<b>\$0.00</b>
Other cost		\$0.00
WO Authorization		\$0.00
Construction Overheads		\$0.00
Total cost		\$0.00
LAND		
Labor cost (30% of total)	Eng. In House	\$0.00
	Const. In House	\$0.00
	<b>Total</b>	<b>\$0.00</b>
Material cost		\$0.00
Outside services cost	Engineering	\$0.00
	Construction	\$0.00
	<b>Total</b>	<b>\$0.00</b>
Other cost		\$0.00
WO Authorization		\$0.00
Construction Overheads		\$0.00
Total cost		\$0.00
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