Engineering & Design Conceptual Estimate											
				Engineer	iiig α	Design Conce	εμιυ	idi Estillidi	e		
Estimate ID or WO #	n/a			Estimate Ne	ed Date			Estimate Comple	ted Date	5/6/2	016
(CUE # if applicable) Division	sw -	- Yuma		Resp.	Unit			Requested By			
	Yun	na Fleet Cent	er	-		-	-	· ·	,		
Project Name				where the creation	Constantine Protection	(I					
P&N / Description	Reloc	ate APS facilities	into Que	echan Sub. City of '	′uma buildii	ng a new fleet center, APS f	acilities	s to be relocated to p	operty bounda	ries.	
Scope of Work	Reloc	ate 69kV in the C	ity of Yu	ma property, and t	uild it on th	e site boundaries to accom	modat	e all new facilities/bu	ildings for the r	ew city of Yuma Fleet Cen	ter. Option 2
									-		
Assumptions & Risks	Easem	ent to follow the 13t	h Street a	nd 1st Ave							
-		and High leve				uration (Months) with sitir		55	01/5011540	Project Costs - Op	tion 2
Targeted In-Service Date	e		1	0/1/2017		stimated Duration (Month test Project Siting Start Dat		37 3/26/2013	OVERHEAD Labor cost	Eng. In House	\$34,042.25
Project Elements	Y/N	Duration (MO)	Max	Est start dates		atest Engineering Start Da	-	9/17/2014	(30% of total)	Const. In House	\$193,851.67
Is siting required	Y	18	18	3/26/2013		atest Permit submittal Dat		10/5/2014	· · · · ·	Total	\$227,893.
					Latest	Construction submittal Dat	e	9/19/2017	Material cost Outside	Engineering	\$390,183.
Is land required	Y		6	3/23/2017	Requi	red Resources	Y/N	1	services cost	Construction	\$0.00
Easements	у	6				ad Design	Y			Total	\$91,973.
ROW	у	6				round Design	Y		Other cost		\$30,453.
						ion Design round Construction	Y Y		WO Authoriz Construction		\$740,504. \$114,987.
Permitting	Y		36	10/5/2014		ad Construction	Y		Total cost		\$855,491.
City	Y	2			Substat	ion Construction	Y		UNDERGRO	DUND	
County	Y	2				Services (hole digging)	Y		Labor cost (30% of	Eng. In House	
ADOT MCDOT	Y	4	-		Inspect PMAC	or	Y Y		total)	Const. In House Total	\$0.00 \$0.
BLM	Y	24			PIVIAC P&C		Y		Material cost		\$0.
State Land	Y	24				inication	Y		Outside	Engineering	\$0.00
Forestry	Y	18			Environ	mental	Υ		services cost	Construction	
BIA	Y	36	-		Land Ag		Y		Other cost	Total	\$0.
Other	Y				Siting A	gent (Permits)	Y		Other cost WO Authoriz	ation	\$0. \$0.
Engineering	у		0.375	9/17/2014	Sitting A	gent		J	Construction		\$0.
Overhead	Y	0.38							Total cost		\$0.
Underground	У	0.00							SUBSTATIC		4
Substation	у	0.00							Labor cost (30% of	Eng. In House Const. In House	\$0.00 \$0.00
									total)	Const. In House Total	\$0.00 \$0.
Long Lead Equipment	У		6	3/23/2017		Ranking		Project Option 2	Material cost		\$0.
ОН	Y	6							Outside services cost	Engineering	\$0.00
UG Substation	y Y	6 Select	-			DESCRIPTION Safety Implication		Rating		Construction Total	\$0.00 \$0.
Substation	<u> </u>	Jelect				Voltage Performance			Other cost	1018	\$0.
Construction	Y		0.372	9/19/2017		Load Demand	ls		WO Authoriz		\$0.
Overhead	у	0.37	_			Reliabili			Construction	Overheads	\$0.
Underground Substation	Y	0.00	-			Customer impa Operational Impa			Total cost		\$0.
P&C	y v	0.00				Cost Bene			Labor cost	Eng. In House	\$0.00
Civil Construction	y					Environmental Impa			(30% of total)	Const. In House	\$0.00
Communication	у					Tota	8	0	-	Total	\$0.
									Material cost Outside	Engineering	\$0.00
									services cost	Construction	
										Total	\$0.
									Other cost WO Authoriz	ation	\$0. \$0.
								Construction		\$0.	
									Total cost		\$0.
									Total Proj Labor cost	ect Costs: Eng. In House	\$34.042.25
									(30% of	Eng. In House Const. In House	\$193,851.67
									total)	Total	\$227,893.
									Material cost Outside		\$390,183.
									outside services cost	Engineering Construction	
										Total	\$91,973.
									Other cost WO Authoriz	ation	\$30,453. \$740,504.
									Construction		\$740,504. \$114,987.
									Total cost		\$855,491.

Project Option 2 (Overhead)											
Estimator:	R. Gutierrez			Date			6/15/	2016			
Project Name:	Yuma Fleet Center										
Scope of work:	We are served as and by the served served as	and a standard standa	- ((Marris Els.)	1 Ocator						
Relocate baky in the City of	Fuma property, and build it on the site bounda	aries to accommodate all new facilities/building	s for the new city o	i fullia Fiee	t Center.						
	Select from Dropdown List (click in cell to activate)	NOTES	Cost per Mile or unit								
Location	SW - Yuma		1.25					Subtotal			
				Enter a v	alue	Labor	Material	Services	Other	Total (WA)	
69kv Circuits	None		\$0.00	Distance		\$0.00		\$0.00	\$0.00	\$0.00	
	None		\$0.00	(miles)	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
			4507 005 55	D 1 (010.51		A	000107	A 170 071 -	
12kv Underbuild	Rebuild Single 69kv + 12kv UB		\$567,905.80	Distance (miles)	0.3	\$49,211		\$14,798.56	\$991.39	\$170,371.74	
	Rebuild Single 69kv + 12kv UB		\$567,905.80	(nines)	0.3	\$49,211	.45 \$53,717.18	\$14,798.56	\$991.39	\$170,371.74	
12kv Only	New Wire Existing Poles 1 CKT 12kv		\$66,599.98	Distance	0.3	\$4,709.	86 \$8,986.68	\$7,012.77	\$0.00	\$19,980.00	
	None		\$0.00	(miles)	0	\$0.00		\$0.00	\$0.00	\$0.00	
Existing Joint Use?	YES		\$0.00	Distance	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Self Supporting Poles	69KV]	\$5,081.49			\$45,733	.41 \$250,442.82	\$36,000.00	\$0.00	\$332,176.24	
(only use 12kv if not an Underbuild, or	12KV			Number	9	\$0.00		\$0.00	\$0.00	\$0.00	
a 12kf only project)	1207		\$20,970.79	Number	0	φ υ. 00	\$0.00	φ0.00	φ0.00	φ0.00	
12kv Dips, Taps & Line	Dips	1	\$3,422.39	Number	4	\$4,450.	64 \$9,238.92	\$0.00	\$0.00	\$13,689.56	
equipment	OH Taps		\$885.39	Number	3	\$1,274.		\$0.00	\$0.00	\$2,656.17	
	Transformer		\$2,042.55	Number	1	\$971.9		\$0.00	\$0.00	\$17,086.98	
	Regulators		\$7,034.21	Number	0	\$0.00		\$0.00	\$0.00	\$0.00	
	Capacitors		\$8,640.19	Number	0	\$0.00		\$0.00	\$0.00	\$0.00	
	Reclosers J-switch		\$21,876.24 \$6,326.26	Number Number	0	\$0.00		\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	
	Comms Equipment		\$20,000.00	Number	0	\$0.00		\$0.00	\$0.00	\$0.00	
					-						
ROW Access Difficulty	Difficult		\$10,000.00	Distance	0.3	\$2,100.	00 \$0.00	\$0.00	\$3,000.00	\$2,400.00	
					1			1	1	1	
Outage Constraints	Released to OPS Daily		\$187,304.21	Distance	0.3	\$25,646	.40 \$0.00	\$0.00	\$0.00	\$25,646.40	
Heavy Urban Costs	YES		\$64,600.00	Distance	0.3	\$5,814.	00 \$11,628.00	\$969.00	##########	\$19,380.00	
	0				5.0	90,014.	1.1,020.00	\$200.00		¢.1,000.00	
69kv switches	NO		\$0.00	Number	0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
Miscellaneous costs (specify)											
(ahoon)											
				-							
				L	1			1		1	
Project Complexity		Labor cost (30% of				\$34,042.25					
				total)		Const. In House		\$193,851.67			
							Tota Motorial age			\$227,893.9	
		Outside •	Outside services		Material cost Engineering			\$390,183.1			
Color Coding Legend:						Construction		\$0.00 \$0.00			
User Input				Total		ıl \$91,973.		\$91,973.6			
Calculated							Other cos	t		\$30,453.4	
D					WO Authorizatio			\$740,504.1			
Document Version 4						Con	struction Overhead Total cos			\$114,987.6 \$855,491.7	
				L			TOTAL COS	~		4000,491.7	