

FEDERAL WORKS AGENCY

District Office
252 Spreckels Theatre Building
San Diego 1, California

OFFICE OF THE ADMINISTRATOR

December 10, 1943

RECEIVED
DEC 13 1943
City Manager

Proposed Project
Water Supply Main
San Diego, California
ENG:GSN:dk

Mr. Walter W. Cooper
City Manager
Civic Center Building
San Diego 1, California

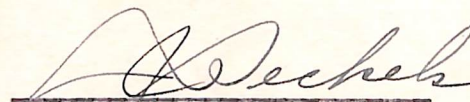
Dear Mr. Cooper:

The local Area Production Urgency Committee of the War Production Board has advised us that your proposed project covering the construction of a 24" water main to supply the Frontier Housing Project has been approved by their Committee.

Although we have not received any information regarding this project from our Regional Office, in order to expedite the processing of this application we are enclosing herewith six copies of FWA Form W-500 for formal application for Federal assistance.

Please fill out this form and return to this office the original and four copies. In addition, we will need six copies of brief outline specifications covering the proposed work, three copies of plans and one copy of Form WPB-2774, including list of material required.

Very truly yours,


L. J. Seckels
District Engineer, F. W. A.

Read Seckels list of materials for form #617



COST ESTIMATE FOR DYKE PIPE LINE - 24" Concrete Steel - Class 200#

<u>Amount</u>	<u>Unit of Measurement</u>	<u>Item</u>		<u>Price</u>	<u>Cost</u>
7,600	lin. ft.	24" Concrete-Steel Pipe Class 200# (250 tons)	@	\$ 7.75	\$58,900.00
3	each	24" Plug Valves	@	607.75	1,823.25
2	"	12" " "	@	442.00	884.00
4	"	8" " "	@	168.50	674.00
2	"	45°-24" Concrete-Steel Bends Class 200#	@	225.00	450.00
2	"	22° 30'- 24" Concret-Steel Bends Class 200#	@	225.00	450.00
1	"	11° 15'-24" Concrete-Steel Bends	@	225.00	225.00
2	"	12" Tees	@	100.00	200.00
4	"	8" Tees	@	100.00	400.00
4	"	2" Air Valves	@	30.00	120.00
3	"	C.I. Manhole Rings & Covers	@	17.50	52.50
9	"	Gate Caps	@	2.50	22.50
580	lbs.	Bolts & Gaskets			25.00
930	sq.ft.	Oil Surface Paving	@	.25	232.50
490	"	Concrete Paving	@	.75	367.50
300	lin.ft.	Jacking Pipe	@	25.00	7,500.00
30	cu.yd.	Concrete (Valve chambers and Anchor Blocks)	@	45.00	1,350.00
4,000	lb.	Steel for reinforcing(2 tons)	@	.10	400.00
4,870	cu.yd.	Excavation-Class 1	@	2.00	9,740.00
120	"	Excavation-Class 2	@	4.00	480.00
					<u>\$84,296.25</u>
		Incidentals, Miscellaneous & Overhead-10%			\$ 8,429.63
		TOTAL COST.....			<u>\$92,725.88</u>

①

Cost estimate for Dyke Pipe Line - 24" Concrete Steel - Class 200

								Weight	
						Steel Sheets	Steel Rods		
						125 tons	125 tons		
7600	feet	C.S. Pipe - Class 200 # - 24"	@	7.75	58,900.00				
3		Blng Valves - - - ✓	@	607.75	1,823.25	@ 2980# x 3 = 8820#		4.41	ton Cast Iron
2		✓ ✓ ✓ 12"	@	442.00	884.00	@ 672# x 2 = 1344#		0.672	ton Cast Iron
4		✓ ✓ ✓ 8"	@	168.50	674.00	@ 308# x 4 = 1232#		0.616	ton " "
2		45° Bonds C.S. - Cl 200 - 24"	@	225.00	450.00				
2		22° 30' - ✓ - ✓ - ✓	@	225.00	450.00				
1		11° 15' ✓ - ✓ - ✓	@	225.00	225.00				
2		Tees ✓ ✓ 12"	@	100.00	200.00				
4		✓ ✓ 8"	@	100.00	400.00				
4		Air Valves 2"	@	30.00	120.00				
3		Valve Chambers Complete	@		170.00				
3		Manhole Ring & Covers	@	17.50	52.50				
9		Plate Caps	@	2.50	22.50				
		Bolts & Gaskets	@		25.00				
					<u>64,226.25</u>				

12.50 per bond
 \$ 15,375.00

77.5
 22.50

Paving	-	930	Sq. Ft.	Oil Surfacing	@ .25 =	232.50
		490	Sq. Ft.	12" Concrete	@ .75 =	367.50

Sacking Pipe	-	300	lineal feet	@ 25.00 =	7500.00
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Valve Chambers & Anchor blocks		30	cu. yds	@ \$45.00 =	1350.00
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Steel		4000	#	@ .10¢ =	400.00
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Excavation		Class 1	4870	C.Y.	@ 2.00 =	9740.00
✓	✓	Class 2	170	C.Y.	@ 2.80 =	480.00

20070.00

84,296.25

8,429.63

Incidentals MISC & Overhead 10%

92,725.88

		Unit		Total	
8	Gate Caps - 8"	15#	-	90#	
3	Plug Valves - 24"	2940#	-	8820#	$\rho_{\text{iron}} = 4.41$
2	✓ ✓ - 12"	672#	-	1344#	C.I. = 0.672
4	✓ ✓ - 8"	308#	-	1232#	C.I. = 0.616
4	Manhole Ring & Covers - 22"	440#	-	1760#	C.I. = 0.880
1	Blind Flanges - 12"	88#	-	88#	C.I. = 0.044
4	✓ ✓ - 8"	42#	-	168#	C.I. = 0.084

24" - 20 - 1/4" Bolts.
 12" - 12 - 7/8" Bolts
 8" - 8 - 3/4" Bolts.

120	Bolts with nuts - 1 1/4" x 5 1/4"	for 24" Valves	- 365# / C = 0.1825	ρ_{iron}
48	✓ ✓ - 7/8" x 3 1/2"	for 12" Valves & Blind Flanges	- 129# / C = 0.0645	
21	✓ ✓ - 3/4" x 3 1/4"	for 8" Valves & Blind Flanges	- 86# / C = 0.043	

4	2" Air Valves	- 60#	240#
4	2" Plug Valves	- 15#	60#
24'	8" Casing Steel	- 6#	144#