

Project Execution Plan

Project: Pioneer Park

Date Prepared: 11/18/1998 1:31:04 PM

Workshop Date(s):
Workshop Location:

Attendees:

Project Description:

Development of an educational park area historic artifacts on the site of California's oldest oil refinery.

Project History:

Pioneer Refinery was initially built in 1876 to produce kerosene and grease from crude oil produced in Pico Canyon. The refinery operated for 12 years at a maximum capacity of 22,000 bbl per year.

In 1998 Chevron donated the site to the City of Santa Clarita and committed to spend an additional \$15,000 toward the development of a park.

Miscellaneous:

A. Framing the Project

A1 Business Objectives

1. What are the Chevron corporate strategic intents that impact this project?

City of Santa Clarita

Preservation of areas history and history of petroleum

Create historic park district with recreations/re-enactments etc.

Education of the public on areas history.

Add to the tourism of the area.

Chevron

Protecting people & environment

Public perception/Good Public Relations

Educate the Public about the benefits and history of oil production and refining in California.

Optimum disposition non-producing properties.

Facilitate the Production Company's exit from the LA basin.

2. What are the Operating Company (OPCO) strategic objectives that impact this project?

Optimum disposition of non-producing properties.

3. What are the Strategic Business Unit (SBU) strategic objectives that may impact this project?

Not Applicable

4. How can this project support achievement of the Corporate strategic intents, and OPCO and Business Unit strategic objectives?

City of Santa Clarita

Addition to the City's historic district will enhance tourism.

Add another reason for people to visit the area.

Create a visual history of the oil development the community was founded on.

Chevron

Build goodwill and benefit the community.

Chevron's participation with the community

5. What is the economic justification for this project?

City of Santa Clarita

City may want to do a cost-benefit analysis of addition expenditures.

Additional work may be done on a volunteer basis.

New jobs when historic district is operational.
State and federal funding possible for some parts of the work.

Chevron

This project is a donation of time and resources. Economic justification is not required.

6. What are the economic sensitivities for the project?

City of Santa Clarita

This project will compete with other parks and historic restorations in the area for additional funding .

Chevron

\$15,000 cap on expenditures.

7. How do marketing goals impact the project?

City of Santa Clarita

Enhance tourism to the area.

Chevron

Education of the public on the oil industry's role in the early development of California.

8. What other projects may impact - or be impacted by - this project?

City of Santa Clarita

Competition for funding may adversely impact this or other historic restorations.

Chevron

Chevron Production does not have any on-going projects that will be impacted. Poor relations with the community may impact other operating companies projects. A successful project may increase Chevron's participation in similar projects in other communities.

9. What tax-related financial strategies may impact project plans?

City of Santa Clarita

?

Chevron

Possible tax deductions due to the donation of resources to a non-profit organization.
Reduction of tax liabilities due to the transfer of property that is no longer producing income.

10. What public relations policies, goals or practices may impact the project?

City of Santa Clarita

Make others in the nearby cities aware of the City of Santa Clarita. Make it a "fun" place to spend the day.

Provide safe educational opportunity for local schools.

Chevron

Project is being done with the participation of the public affairs department at the ElSegundo refinery.

Chevron hopes to maintain and enhance the positive working relationship with the City. Enhance the perception the public has for Chevron, and the oil industry.

Provides opportunity to show how much the oil production practices have improved, especially environmentally.

11. What business objectives may pertain to the demonstration of new technology?

None

A2 Project Execution Objectives

1. How sensitive are the project's economics to cost?

City of Santa Clarita

Chevron

This is an expense project for restoration of a historic park. Project economics are not a factor. Chevron's expenditures are subject to a \$15,000 cap.

2. What is the current cost estimate? What is the probability level and accuracy of this estimate?

Plans are not well enough defined to make any prediction of costs. Chevron USA will expend the first \$15,000.00. This will include site layout, recommendations of next steps, and initial estimates.

3. What cashflow constraints may impact the project?

First \$15,000 to be spent by Chevron. Funding is committed and available

Funding on remainder of park subject to City of Santa Clarita budget requirements. Funding on additional requirements uncertain. Some work may be done on a volunteer basis.

4. What are the strategic milestone dates that must be met?

Site presentation to City Council on 9/98

Preview plans with park division on 8/18/98

City and Chevron must agree on the project plan before expenditures on detailed design and construction can be made.

Per the transfer agreement, Chevron expenditures to be complete by April 99.

Park will not be fully open until structures are restored. Park may be opened for guided tours prior to being completely open.

5. How sensitive are the project's economics to the achievement of the overall schedule?

This is an expense project to Chevron. Normal economics cannot be calculated. The City of Santa Clarita may want to calculate cost/benefit ratios on additional funding.

6. What are the project's "drivers" that have the strongest impact on project success?

Some structures are still standing.

Structures have been restored to near original condition.

No accidents during construction.

Used by public.

Placards are still readable and standing.

Trails accessible and used.

Public is more aware of oil's history and positive contributions to California.

Park equipment is installed.

Park complies with applicable ADA requirements and other regulations.

Chevron

City and Chevron agree on the vision.

Increased understanding of the oil industry's history.

7. What new technology is involved, and what are the uncertainties associated with its use?

No new technology is currently anticipated.

8. What will be the nature and extent of pre-investment for additional, future capabilities?

9. What are the project's safety objectives, and what must be done to achieve them?

Compliance with building code for historic buildings.

Zero incidents during construction.

Close construction areas to public.

Trails well built and maintained.

Designs will be approved by the applicable agencies.

Safety plans will be prepared by all contractors. Any company under contract to Chevron will be subject to Chevron's safety policies as well as the city's policies.

10. What are the project's objectives for environmental compliance?

Construction and restoration activities will comply with all applicable regulations concerning air emissions, worker health & safety, debris disposal, etc. Threatened and Endangered species review should be done before construction activities begin. Soil surface is not to be disturbed. No material, including soil, is to be removed from the site.

11. What Operations requirements impact the project's design or schedule?

City

Startup of the project does not need to be coordinated with any other projects.

Chevron

There are no Chevron production operations in the area.

12. What are the facility performance objectives that must be met?

Compliance with Americans with Disabilities Act where applicable, and with the Historic Building Code.

The public trail is a safe way for people to visit the site and learn about the history of oil refining.

Placards and educational information is available to the public.

13. What are the project's quality objectives?

Restoration of structures that will last if maintained.

Site map meets city requirements.

Provide visual and educational center for the public to learn about oil refining.

14. What is the potential for significant changes to any of the project's objectives?

Time required to bring site to completion.
Changing political and economic climate in City of Santa Clarita.
Extensive earthquake damage to remaining structures.
Competition for funding with other city projects.
Changes in funding available from state and federal sources.
Availability of volunteer resources.

15. What are the overall Project Management Objectives?

Chevron is to complete its expenditures prior to the April 1999 deadline.
To the extent possible, Chevron will provide a well planned project definition and partner with the city for its completion.

A3 Scope of Work

1. What are the physical deliverables that will be produced by the project?

Historic Park.
Restored artifacts.
Parking Lot ADA compliant.
Trails, Picnic benches, Scout camping area or meeting grounds.
Restrooms
Landscape
Fencing, Lighting
Signs indicating the function of structures and facilities.
Road into area.

2. What necessary or desirable physical deliverables are currently excluded from the project's scope of work?

Due to Chevron's funding commitment, most of the project will be completed by others.
Paving of road.
Parking lot is being build by other parities.

3. What are the major activities that are included in the project's scope of work?

Eagle Scout participation in trail building.
Layout./plot plan of park.
Design of signs.

Seismic analysis of structures still standing.

Rebuilding of stack and firebox.. - masonry inventory ready for review.

Restoration of Stills.

Park Division approval of recommendations.

4. What necessary or desirable activities are currently excluded from the project's scope of work?

5. What is a Work Breakdown Structure (WBS) for the project's scope of work?

6. What potential exists for significant changes to the scope of work?

Public and city input

Funding limitations

A4 CPDEP Implementation Plan

1. How will each CPDEP phase be carried out? Prepare a CPDEP Roadmap.

Associated File(s):

P:\Pioneer Park\cpdep.ppt

Cost Estimate Summary
 Historic Pioneer Refinery
 City of Santa Clarita

Task	Low Cost	Most Likely Cost	High Cost	Source
Preliminary Seismic Engineering	\$ 1,000	\$ 1,200	\$ 3,000	Consultant verbal estimate
Seismic Analysis of Existing Structures	\$ 13,800	\$ 24,800	\$ 46,800	Consultant verbal estimate
Prepare Scope for Rebuilt Structures	\$ 200	\$ 700	\$ 2,700	Consultant verbal estimate
Replicate Acid Treating Tank and Wash Tank platform	\$ 300	\$ 800	\$ 1,700	Internal Calculations
Design Ramps, Parking Lot, Entrance (ADA)	\$ 500	\$ 1,500	\$ 2,800	Internal Calculations
Purchase Placards	\$ 5,000	\$ 6,000	\$ 8,000	Sign Company verbal estimates
Interior Fencing	\$ 4,000	\$ 4,200	\$ 4,800	Verbal Quote from fencing company
Construction	\$ 24,000	\$ 29,000	\$ 48,000	Consultant verbal estimate
Restore Structures				Included Above
Repair Foundations				Included Above
Corrosion Cleansing	\$ 8,500	\$ 9,400	\$ 11,800	Verbal Estimate from Contractor
Realign Still w/crane	\$ 1,300	\$ 2,500	\$ 8,500	Internal Calculations
Brick Restoration	\$ 15,000	\$ 20,000	\$ 30,000	contractor proposal
Rebuild Missing Structures	\$ 59,000	\$ 96,200	\$ 104,200	Internal Calculations
Install Trail	\$ -	\$ -	\$ -	Assumed Volunteer Work
Install Placards	\$ 300	\$ 600	\$ 2,000	Internal Calculations
Total	\$ 132,900	\$ 196,900	\$ 274,300	
Chevron Commitment	\$ 15,000	\$ 15,000	\$ 15,000	
Remaining Expenditures	\$ 117,900	\$ 181,900	\$ 259,300	

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DETAIL ESTIMATE SHEET

22-Oct-98

Description	Qty	Units	Unit Cost	Mat'l Cost	Unit Hours	Labor Hours	Wage Rate	Labor Cost	Subs	Total
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Top & Btm Slab	4.3	CY	\$62	\$268	3.50	15.16	\$56	\$849	\$0	\$1,117
Forms	60	SF	\$4	\$240	0.25	15	\$56	\$840	\$0	\$1,080
Re-bar	90	lbs	\$0.85	\$77	0.02	1.62	\$56	\$91	\$0	\$167
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Concrete Walls	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Ends	3	CY	\$62	\$186	0.78	2.34	\$56	\$131	\$0	\$317
Forms	225	SF	\$1.6	\$360	0.17	39.02	\$56	\$2,185	\$0	\$2,545
Re-bar	299	lbs	\$0.58	\$174	0.01	2.394	\$56	\$134	\$0	\$308
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Bricks	945	EA.	\$0.65	\$614	0.03	23.63	\$56	\$1,323	\$0	\$1,937
Mortar	11	CF	\$2.54	\$28	0.00	0	\$0	\$0	\$0	\$28
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Steel Door 1	1	EA.	\$800	\$800	4.00	4	\$56	\$224	\$0	\$1,024
Steel Door 2	1	EA.	\$800	\$800	4.00	4	\$56	\$224	\$0	\$1,024
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Vessel 1	1	EA.	\$9,600	\$9,600	33.00	33	\$56	\$1,848	\$0	\$11,448
Vessel 2	1	EA.	\$11,500	\$11,500	33.00	33	\$56	\$1,848	\$0	\$13,348
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Stack	1	EA.	\$500	\$500	0.00	5	\$56	\$280	\$0	\$780
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Furnance	430	lbs	\$4	\$1,720	0.04	17.2	\$56	\$963	\$0	\$2,683
Forms	60	SF	\$4	\$240	0.25	15	\$56	\$840	\$0	\$1,080
Re-bar	90	lbs	\$0.85	\$77	0.02	1.62	\$56	\$91	\$0	\$167
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Condensor Box	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
2x10 planking	3.9	bf	\$590	\$2,276	0.00	0	\$0	\$0	\$0	\$2,276
2x4 studs	0.5	bf	\$550	\$272	0.00	0	\$0	\$0	\$0	\$272
Hardware	1	EA.	\$500	\$500	0.00	0	\$0	\$0	\$0	\$500
2x10 planking	204	EA.	\$0	\$0	0.26	53.04	\$56	\$2,970	\$0	\$2,970
2x4 studs	85	EA.	\$0	\$0	0.22	18.7	\$56	\$1,047	\$0	\$1,047
Concrete	6	cy	\$60	\$360	1.00	6	\$56	\$336	\$0	\$696
Forms	362	SF	\$4	\$1,448	0.25	90.53	\$56	\$5,069	\$0	\$6,518
Re-bar	50	lbs	\$0.85	\$43	0.02	0.9	\$56	\$50	\$0	\$93
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Piping	110	ft	\$3	\$330	0.15	16.5	\$56	\$924	\$0	\$1,254
Pipe Supports	3	EA.	\$200	\$600	3.00	9	\$56	\$504	\$0	\$1,104
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
Painting	600	SF	\$0.30	\$180	0.04	25.2	\$56	\$1,411	\$0	\$1,591
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0
	0		\$0	\$0	0.00	0	\$0	\$0	\$0	\$0

Sub Totals				\$33,192		432		\$24,183	\$0	\$57,375
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Tax	8.25%									\$2,738
Freight	5.00%									\$1,660
Sub total										\$61,773
Contractor Profit & OH	10.00%								\$6,177	\$67,950
Engineering	18.00%								\$12,231	\$80,181
Company Cost	0.00%								\$0	\$80,181
Contingency	20.00%								\$16,036	\$96,217

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Composite Wage Rate									
Small jobs									
9/7/96									
Directs	Rich			Bakersfield			Pasca		
Boiler Maker	0%	\$27.68	\$0.00	0%	\$0.00	\$0.00	8%	\$17.78	\$1.42
Carpenter GF	3%	\$26.00	\$0.78	10%	\$26.18	\$2.62	2%	\$15.50	\$0.31
Carpenter	21%	\$24.50	\$5.15	31%	\$24.18	\$7.50	6%	\$13.50	\$0.81
Iron Worker GF	3%	\$23.33	\$0.70	2%	\$27.69	\$0.55	2%	\$18.83	\$0.38
Iron Worker	30%	\$21.83	\$6.55	4%	\$25.69	\$1.03	4%	\$16.83	\$0.67
Electrician GF	0%	\$28.37	\$0.00	0%	\$0.00	\$0.00	2%	\$18.20	\$0.36
Electrician	0%	\$26.87	\$0.00	0%	\$0.00	\$0.00	12%	\$16.20	\$1.94
Fitter-Welder GF	3%	\$33.54	\$1.01	2%	\$29.21	\$0.58	2%	\$20.84	\$0.42
Fitter-Welder	30%	\$32.04	\$9.61	41%	\$27.21	\$11.16	41%	\$18.84	\$7.72
Laborer	10%	\$20.71	\$2.07	10%	\$19.62	\$1.96	10%	\$10.00	\$1.00
Operating Eng	0%	\$25.82	\$0.00	0%	\$0.00	\$0.00	6%	\$8.00	\$0.48
Teamster	0%	\$19.00	\$0.00	0%	\$0.00	\$0.00	5%	\$15.44	\$0.77
Totals	100%		\$26	100%		\$25.40	100%		\$16.29
Indirects									
Construction Mgt	5%	\$1.29		10%	\$2.54		5%	\$0.81	
Temp Facilities	0%	\$0.00		0%	\$0.00		0%	\$0.00	
Premium Time	0%	\$0.00		0%	\$0.00		0%	\$0.00	
Fringes	26%	\$6.72		30%	\$7.62		20%	\$3.26	
Payroll Taxes	10%	\$2.59		34%	\$8.64		10%	\$1.63	
Small Tools	10%	\$2.59		10%	\$2.54		10%	\$1.63	
Consumables	5%	\$1.29		5%	\$1.27		5%	\$0.81	
Const Equip	20%	\$5.17		15%	\$3.81		20%	\$3.26	
Rentals-Scaffold	10%	\$2.59		5%	\$1.27		10%	\$1.63	
Fee + Per diem	8%	\$2.07		10%	\$2.54		8%	\$1.30	
Safety Incentive	5%	\$1.29		0%	\$0.00		5%	\$0.81	
	94%			119%			88%		
Total Indirects			\$24.31			\$30.22			\$14.34
			Rich			Bakersfield			Pasca
Total Composite Rate			\$50.17			\$55.62			\$30.63
Fee = \$5.50/hr = 6% of \$4.5MM (direct cost)									
Per Diem = 11.0\$/hr									

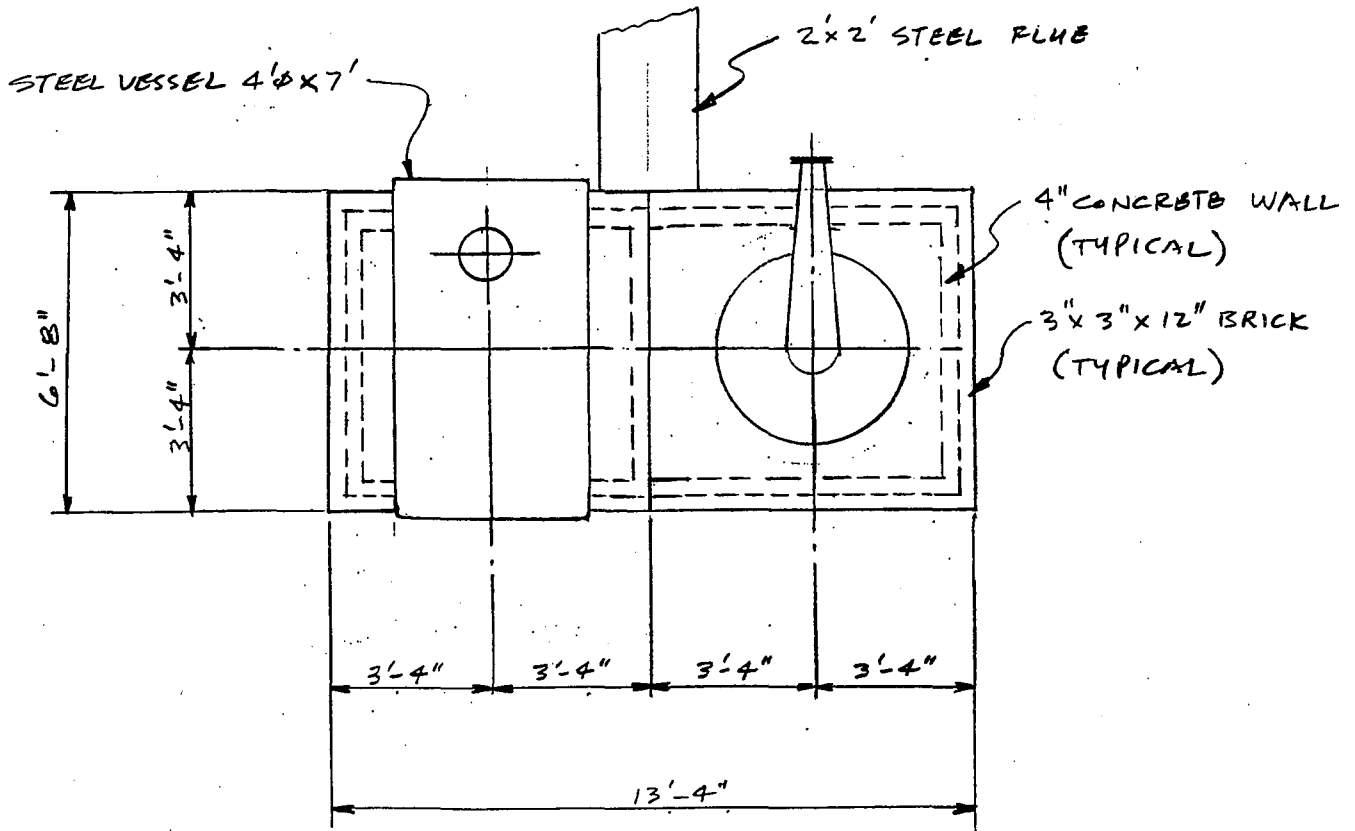
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Description _____

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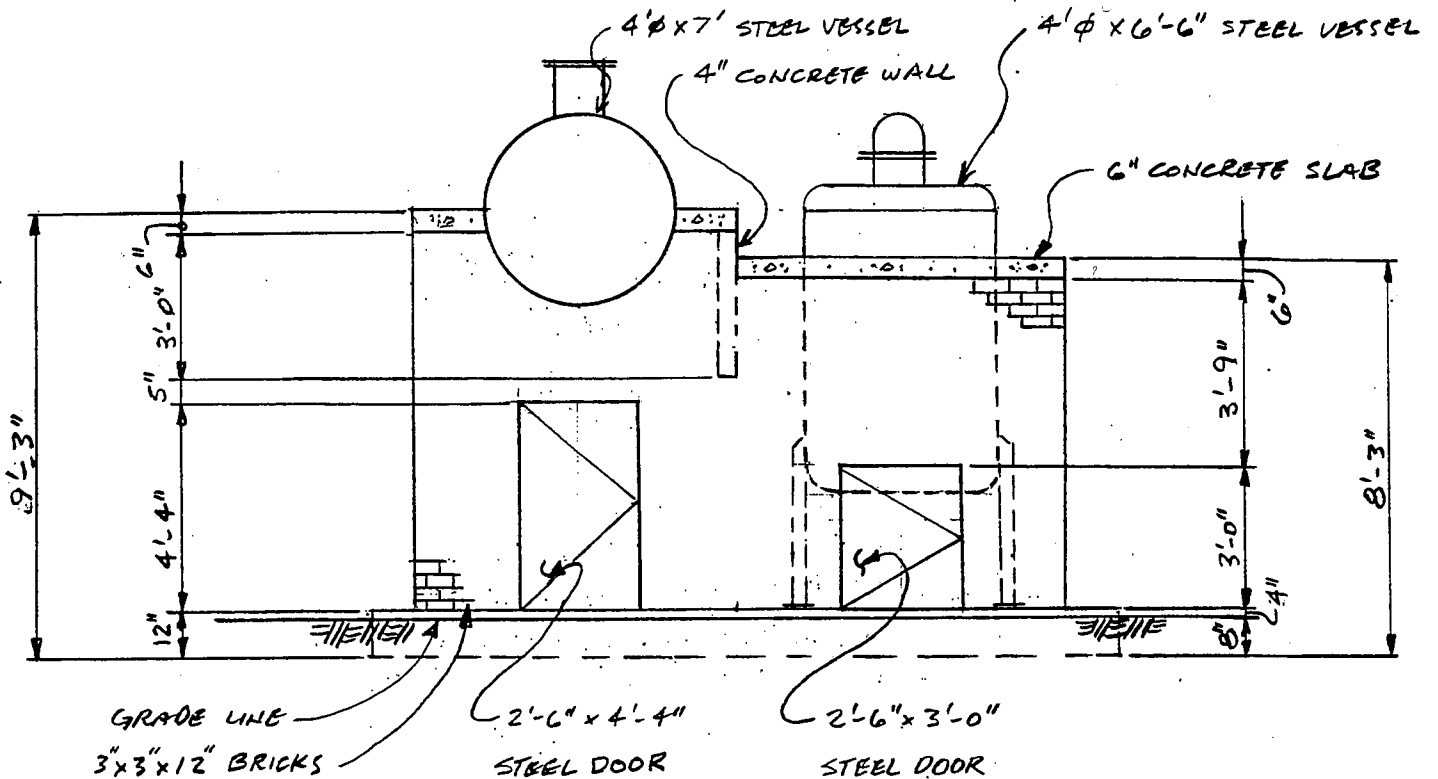
PLAN

1/4" = 1'-0"

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ELEVATION

1/4" = 1'-0"

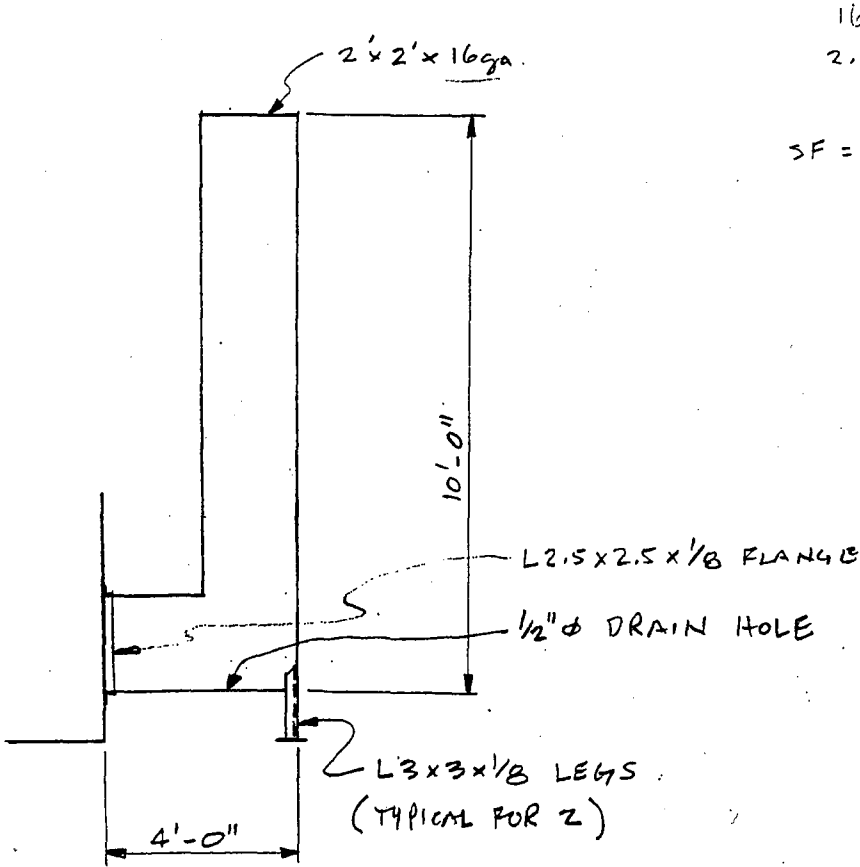
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STACK

A 5/5 2'Ø x 10'



16 ga.
 $2.5 \text{ lbs} / (12" \times 12" \times .0598") = .29 \text{ lbs/in}^3$

SF = 10' x 4 sides = 40'
 2 x 4 = 8

$48 \text{ sq}' \times 2.5 = 120 \text{ lbs}$

STACK ELEVATION

1/4" = 1'-0"

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Materials & Quantities

FORMS

1. Bottom slab $\frac{(13.33 \times 6.66 \times 1.0)}{27} = \underline{3.3 \text{ yds}}$, $\left[(13.33 \times 2) + (6.66 \times 2) \right] \times 1.0 = \underline{40 \text{ SF}}$

2. Top slab $\frac{[6.66^2 - (4 \times 6.66)] \times .5}{27} = \underline{.33 \text{ yds}}$ $\left[(13.33 \times 2) + (6.66 \times 2) \right] \times .5 = \underline{20 \text{ SF}}$

$\frac{[6.66^2 - (\pi \frac{3^2}{2})] \times .5}{27} = \underline{.70 \text{ yds}}$

3. Concrete Walls

ENDS $\frac{(6.66' \times 8.25' \times .33')}{27} = \underline{.68 \text{ cyds}}$; $(6.66 \times 8.25) = \underline{55 \text{ SF}}$

SIDE 1 $\frac{(13.25' \times 7.75' \times .33')}{27} - \frac{(2.5 \times 4.33 \times .33')}{27} - \frac{(2.5 \times 3 \times .33')}{27}$
 $-\frac{(1 \times 6.66 \times .33')}{27} = \underline{.95 \text{ cyds}}$
 $(13.25 \times 7.75) - (2.5 \times 4.33) - (2.5 \times 3) - (6.66 \times 1.0) = \underline{78 \text{ SF}}$

SIDE 2 $\frac{(13.25 \times 7.75 \times .33')}{27} - \frac{(2 \times 2 \times .33')}{27} - \frac{(1 \times 6.66 \times .33')}{27} = \underline{1.12 \text{ cyds}}$
 $(13.25 \times 7.75) - (2 \times 2) - (1 \times 6.66) = \underline{92.0 \text{ SF}}$

Center Wall $\frac{(5.6' \times 3.0 \times .33')}{27} = \underline{.20 \text{ cyds}}$

4. Bricks $3'' \times 3'' \times 12''$ TOTAL SF OF WALL = 225
 No. of Bricks $225/100 \times 400 = 900 \times 1.05\% \text{ waste} = 945 \text{ ea.}$
 Mortar $225/100 \times 4.57 = 10.3 \times 1.2 \text{ waste} = 12.3 \text{ cu ft}$

REFERENCE NO: 108 VERT

CATEGORY/TYPE: VT /CYLINDER

USER EQUIPMENT TAG:

ESTIMATED COST: USD 11500

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----- ITEM DETAILS -----
: SHELL MAT'L A 515           : CAPACITY           620.00 GALLONS :
: DIAMETER                   4.00 FEET           : HEIGHT             6.50 FEET       :
: DESIGN TEMP.               650.00 DEG F       : DESIGN PRESS       15.00 PSIG      :
: APPLICATION CONT           : THICKNESS           0.31 INCHES     :
: TOTAL WEIGHT                2500 LBS           :                   :
:
  
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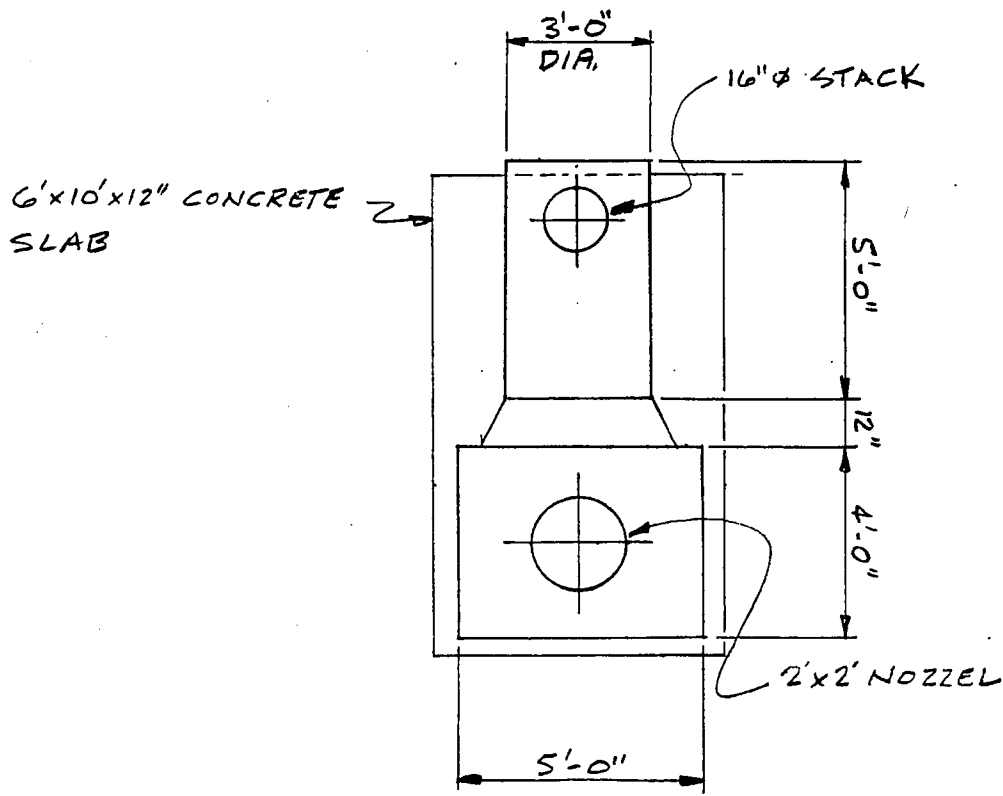
----- INSTALLATION SUMMARY -----
: INSTALLATION : DIRECT MAT'L : DIRECT FIELD LABOR : TOTAL DIRECT :
: ACCOUNT      : USD          : MAN-HOURS          : USD          :
-----
: EQUIPMENT    : 11500       : 33                 : 2763        : 14263       :
: PIPING       : 0           : 0                  : 0           : 0           :
: CIVIL, SITEWORK : 0         : 0                  : 0           : 0           :
: STEELWORK    : 0           : 0                  : 0           : 0           :
: INSTRUMENTATION : 0         : 0                  : 0           : 0           :
: ELECTRICAL   : 0           : 0                  : 0           : 0           :
: INSULATION   : 0           : 0                  : 0           : 0           :
: PAINTING     : 0           : 0                  : 0           : 0           :
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: TOTAL DIRECT COST: 11500     : 33                 : 2763        : 14263       :
  
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Subject _____

Description _____

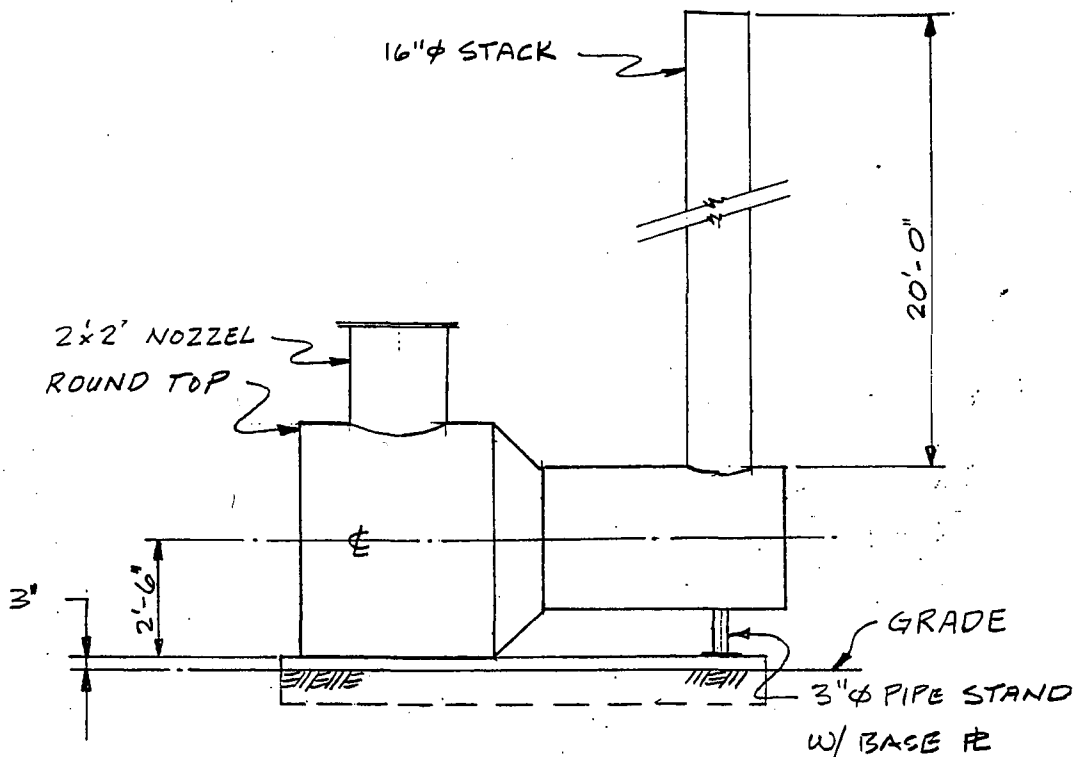
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FURNANCE
PLAN
1/4" = 1'-0"

Subject _____

Description _____



FURNANCE
ELEVATION

1/4" = 1'-0"

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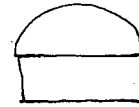
Description _____

FURNANCE BOX 10ga.

$$C = \frac{\pi D}{2} = \frac{\pi 5'}{2} = 7.85$$

$$7.85 \times 4' = 31.4 \text{ SF}$$

$$2.5 \times 4' = \underline{10.0 \text{ SF}}$$


TRANSITION

$$C = \pi D = \pi 5' = 15.7'$$

$$\pi 3' = 9.4'$$

$$SF = \frac{1}{2} L (P_1 + P_2) = \frac{1}{2} \times 1.41' \times (15.7 + 9.4) = \underline{17.7 \text{ SF}}$$



$$C = \sqrt{1.0^2 + 1.0} = 1.41$$

$$h = 12''$$

$$\frac{5' - 3'}{2} = 1.0$$

CONE

$$C = \pi D = \pi 3' \times 5' = \underline{47.1 \text{ SF}}$$

STACK

$$C = \pi D = \pi 1.33 = 4.2 \times 20' = 83.6 \text{ SF}$$

NOZZEL

$$C = \pi D = 2' \pi = 6.3 \times 2' = 12.6 \text{ SF}$$

$$\text{TOTAL } 10 + 1.8 + 47.1 + 84 + 13 = 172 \text{ SF} \times 2.5 \frac{\text{lbs}}{\text{SF}} = 430 \text{ lbs}$$

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PROJECT: West Coast Basis

DATE PREPARED: 16 OCT 1998

PREPARED BY: DEM

PROJECT DATABASE: RIC

=====

REFERENCE NO: 107 HORIZ CATEGORY/TYPE: HT /HORIZ-DRUM

USER EQUIPMENT TAG: ESTIMATED COST: USD 9600

----- ITEM DETAILS -----

: SHELL MAT'L A 515	:	CAPACITY	:	660.00 GALLONS	:
: DIAMETER	:	4.00 FEET	:	LENGTH	:
:	:		:	7.00 FEET	:
: DESIGN TEMP.	:	650.00 DEG F	:	DESIGN PRESS	:
:	:		:	15.00 PSIG	:
: APPLICATION CONT	:		:	THICKNESS	:
:	:		:	0.31 INCHES	:
: TOTAL WEIGHT	:	2400 LBS	:		:
:	:		:		:

----- INSTALLATION SUMMARY -----

: INSTALLATION	:	DIRECT MAT'L	:	DIRECT FIELD LABOR	:	TOTAL DIRECT	:
: ACCOUNT	:	USD	:	MAN-HOURS	:	USD	:
: EQUIPMENT	:	9600	:	33	:	2763	:
: PIPING	:	0	:	0	:	0	:
: CIVIL, SITEWORK	:	0	:	0	:	0	:
: STEELWORK	:	0	:	0	:	0	:
: INSTRUMENTATION	:	0	:	0	:	0	:
: ELECTRICAL	:	0	:	0	:	0	:
: INSULATION	:	0	:	0	:	0	:
: PAINTING	:	0	:	0	:	0	:
: TOTAL DIRECT COST:	:	9600	:	33	:	2763	:
	:		:		:	12363	:

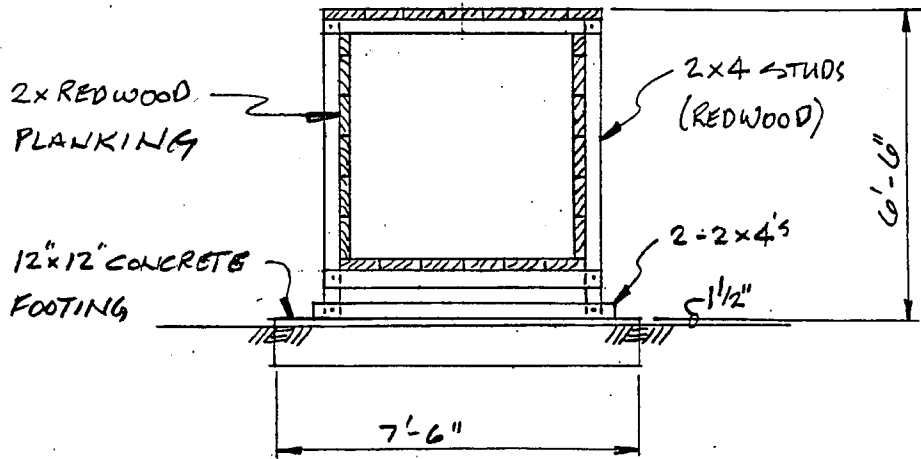
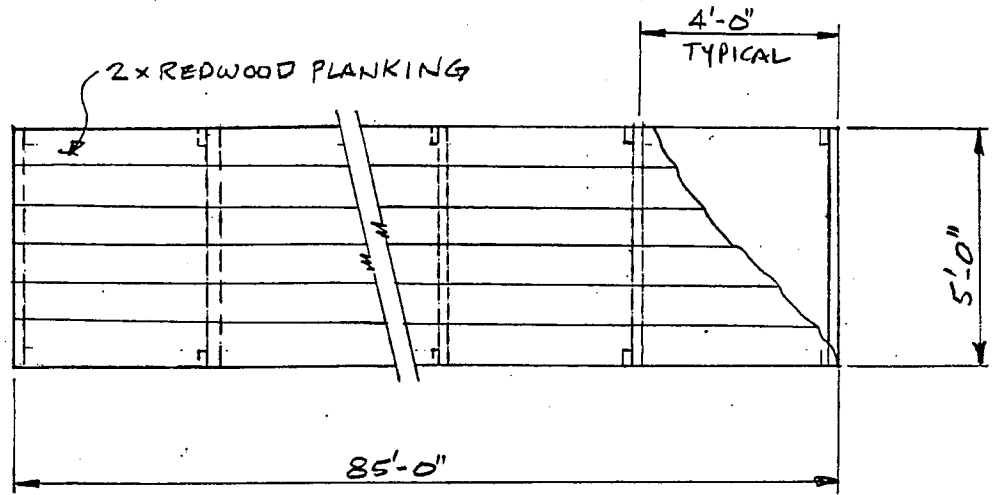
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Page _____ of _____
 File/ Estimate No. _____
 Charge Code/ Project No. _____
 Date _____
 By _____

Subject _____
 Description _____



PLAN AND SECTION
CONDENSATOR BOX
 1/4" = 1'-0"

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Subject _____

Description _____

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File/ Estimate No. _____

Charge Code/ Project No. _____

Date _____

By _____

Condenser Box

2x Planking = $1.67 \text{ BF} \times 85' \times 6 \text{ PLANKS} \times 4 \text{ SIDES} = 3,407 \text{ BF}$

ENDS = $1.67 \times 5' \times 6 \text{ ea} \times 2 \text{ SIDES} = 100 \text{ BF}$

2x 4's BRACES .66 x 5' x 4 ea. x $\frac{85'}{4}$ = 281 BF

2x 4 STRUTS .66 x 6' x 2 x $\frac{85'}{4}$ = 168.3 BF

TOTAL BF $3407 + 100 + 281 + 168.3 = 3956.3 \approx 4,000 \text{ BF}$

10% waste $4000 \times 1.1 = 4400 / 1000 = 4.4 \text{ MBF}$

2" x 10" - 10' 590 # MBF

PLANKING $3507 \times 1.1 = 3858 \text{ BF}$

2" x 4" - 10' 550 # MBF

2x 4 $449.3 \times 1.1 = 494.2 \text{ BF}$

$\frac{85'}{4} \div 10' = 8.5 \text{ ea.} \times 6 \times 4 \text{ SIDES} = 204 \text{ planks (2x10)}$

$\frac{85'}{4} = 21.3 \text{ ea} \times 4 = 85.2 \text{ ea. (2x4s)}$

FOUNDATION $(7.5 \times 2) + (1.0 \times 2) = 17 \text{ SF}$

$\frac{85'}{4} = 21.3 \text{ ea}$

$17 \times 21.3 = 362.1 \text{ SF}$

Re-bar $362.1 \times .14 \text{ lbs/SF} = 50 \text{ lbs}$

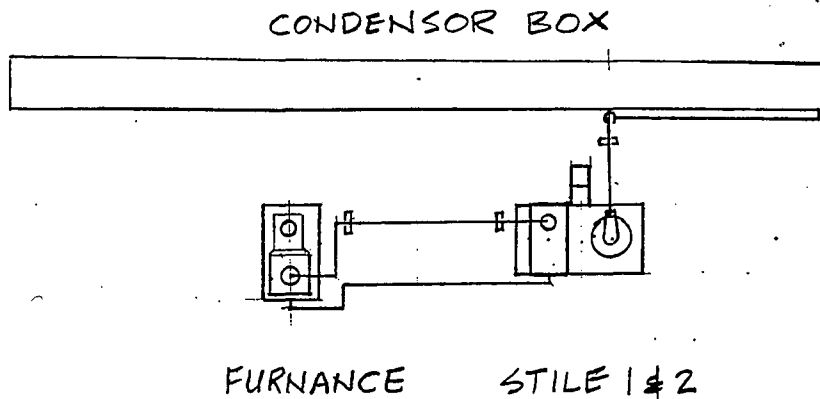
$\frac{7.5 \times 1.0 \times 1.0}{27} = .28 \text{ cy ea.}$

$21 \times .28 = 5.9 \approx 6.0 \text{ cy}$

Subject _____

Description _____

Piping



PLAN
1" = 20'-0"

3/4" PIPE 30' + 30' + 10' + 20' = 90' HORIZ }
90 x .20 = 18' VERT } 108 Long 110 FT.

3 TYPE 1 PIPE SUPPORTS

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 By _____

Subject _____
 Description _____

Painting

Vessels 4' Ø x 7' HORIZ

$\pi r^2 \times 7 = 88 \text{ SF}$ plus ends + $\pi r^2 \times 2 = 25$
 TOTAL 113 SF

4' Ø x 6.5' VERT

$\pi r^2 \times 6.5 = 82$ Ends $\pi r^2 \times 2 = 25$ LEGS 1' x 4' x 4 LEGS = 16 SF
 TOTAL 123 SF

STACK (10' + 2') x 2' x 2' = 48 SF }
 MISC (LEGS) = 2 SF } 50 SF

STEEL DOORS 2.5' x 4.3' x 2 = 22 SF }
 2.5' x 3.0' x 2 = 15 SF } 37 SF

PURNANCE BOX = 10 SF
 TRANSITION = 18 SF
 CONE = 47.1 SF
 STACK = 84 SF
 NOZZLE = 13 SF

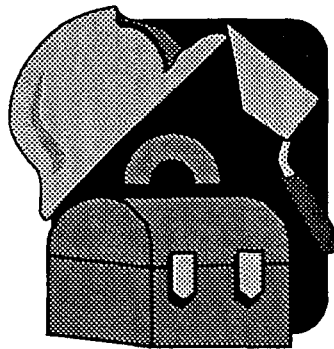
172 SF

bcc
THE BAKER COMPANY
C O N S T R U C T O R S

NEWHALL OIL REFINERY

BRICK RESTORATION PROPOSALS

Date: 07/20/98



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Prepared By:
Kevin Connington
The Baker Company Constructors
19215 Vicci Street
Canyon Country, CA 91351
Phone (805) 298-9136

bcc

THE BAKER COMPANY

CONSTRUCTORS

Proposal For Furnace Stacks

Newhall Oil Refinery

MATERIAL ESTIMATE		
Material	Quantity/Type	Amount
Concrete (<i>Footings</i>)	6 Cubic Yards	\$480.00
Concrete (<i>Block Grouting</i>)	4 Cubic Yards	\$320.00
Blocks (<i>8" x 8" x 16"</i>)	300 Gray Medium Weight	\$600.00
Steel - Rebar (<i>5/8"</i>)	24 Pieces @ 20 Feet	\$240.00
Steel - Rebar (<i>1/2"</i>)	12 Pieces @ 20 Feet	\$70.00
Steel (<i>Railroad Pencil</i>)	30 Pieces @ 8 Feet	\$100.00
Cement (<i>Plastic</i>)	20 Sacks	\$160.00
Sand (<i>Dry Plaster</i>)	4 Scoops	\$75.00
Jack Hammer	1 40 lbs. With Chisel Bit (<i>3 Days</i>)	\$210.00
Total Material Cost		\$2,255.00
LABOR		
Total Manpower	Estimated Time	Total Payroll
5 Men	10 Days	\$8,000.00
Total Project Cost		\$10,255.00

Date: 07/20/98

Scope of Work:

1. Demo two (2) existing stacks (*24' high by 3' x 3' wide*).
2. Chip and clean 3,450 existing used brick for reuse.
3. Remove debris from work area (*dump fees and site remove not included*).
4. Rebuild both stacks as per attached plan.
5. Does not include excavation of existing footings.

Note 1: Estimated value of existing cleaned bricks = \$2,000.00

Note 2: Materials supplied by client will be deducted from total cost.

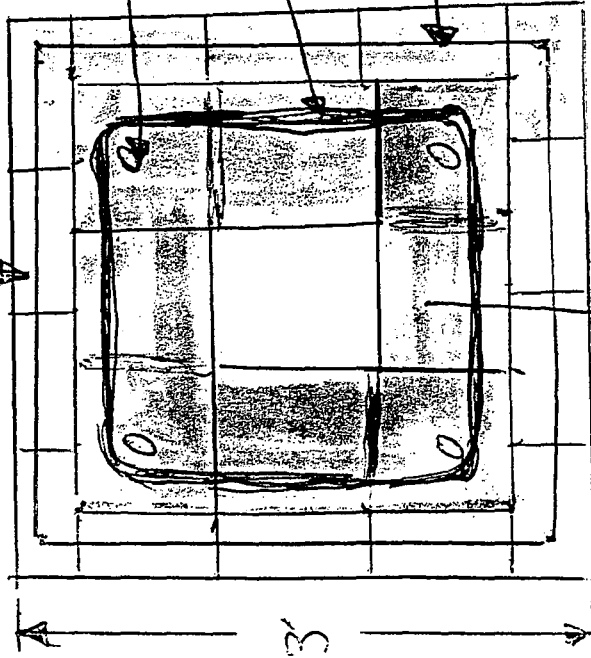
NOTE3: *DOES NOT INCLUDE PERMITS*

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19215 Vicci Street
Canyon Country, CA 91351
License #554962

VIEW BANK
VENETIAN

(10) BRICKS PER COURSE
96 COURSES HIGH

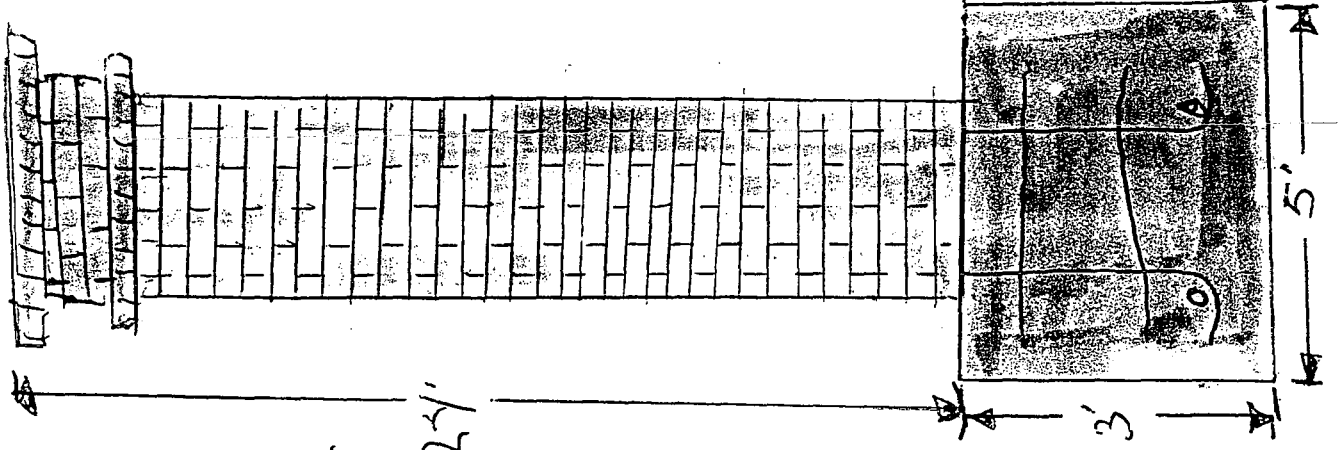


4x6x16 BLOCK
DRUMMO SOLID

5/8" REBAR AT EACH CORNER

1/2" REBAR EVERY 2"

PENCIL STEEL
EVERY 2"



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bcc

THE BAKER COMPANY

CONSTRUCTORS

Proposal For 'Beehive' Downdraught Furnaces

Newhall Oil Refinery

MATERIAL ESTIMATE		
Material	Quantity/Type	Amount
Cement	10 Sacks (Plastic)	\$100.00
Sand	3 Scoops (Dry Plaster)	\$60.00
Bricks	200 Used	\$150.00
Makita Grinders	2 4 Inch (For Grinding Mortar Joints)	\$300.00
Diamond Blades	4 All Purpose	\$300.00
Epoxy (See Note #1)	TBD Simpson Strong Tie	\$300.00
Goggles and Respirator	2 OSHA Approved	\$100.00
Total Material Cost		\$1,310.00
LABOR		
Total Manpower	Estimated Time	Total Payroll
5 Men	6 Days	\$4,800.00
Total Project Cost		\$6,110.00

Date: 07/20/98

Furnace Description:

Furnace #1: 68 brick long per course by 36 courses high.
 Furnace #2: 68 brick long per course by 30 courses high.

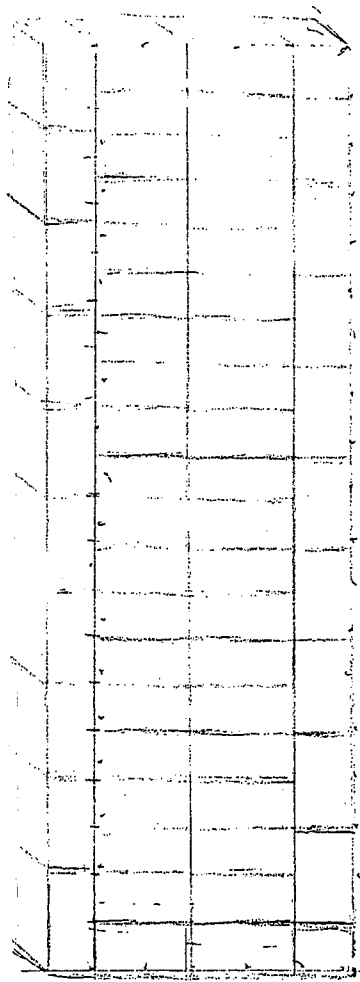
Scope of Work:

1. RegROUT all exterior joints (approximately 4,500 brick).
2. Repair damaged areas as necessary (exterior only).
3. Epoxy all structural cracks (exterior only).

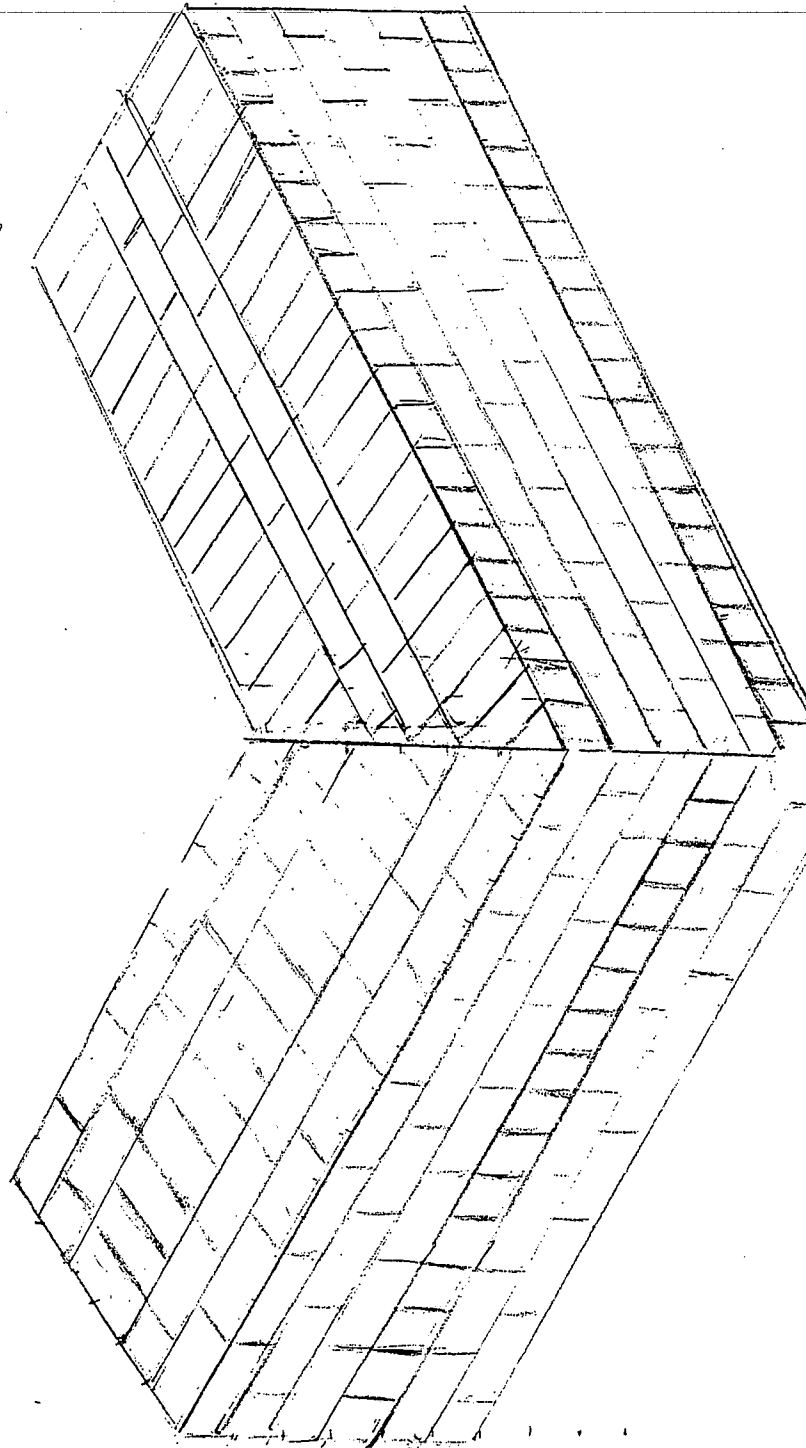
- Note 1: Epoxy estimate may vary; will confirm cost per amount used. \$300.00 is a ballpark estimate. Will adjust cost after work is completed.
- Note 2: Suggest inspection of interior of furnace for additional reinforcement.
Example: Grouting of deteriorated joints, epoxying structural cracks.
- Note 3: Suggest sand blasting of exterior bricks before regROUTing.
- Note 4: Furnace #1 - Client to supply crane to lift bell unit off of furnace to realign the circumference of brick cap (as discussed with Paul).
- Note 5: Suggest inspection of existing footings for possible structural reinforcement.
- Note 6: Material supplied by client will be deducted from total cost.

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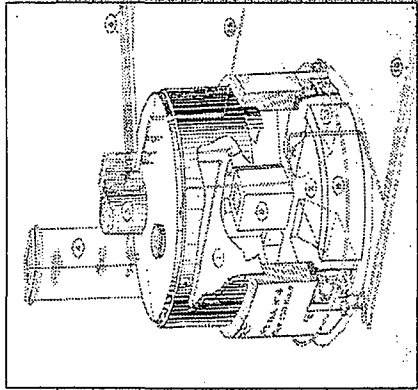
ASSUMED (NOT POSITIVE)
ALTERNATE PATTERNS
in FORWARD wall 3 BRICKS wide



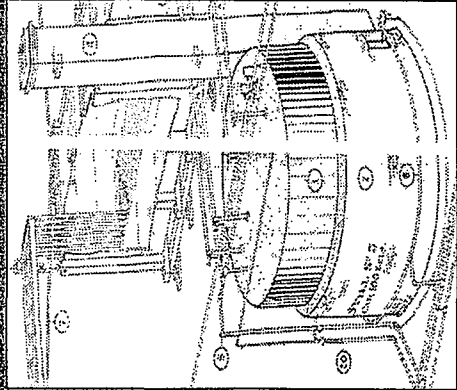
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Pioneer Refinery
Structure Inventory

Structure	Problem/Damage	Potential Solution/Improvements
Stiff No. 4	Corrosion	Corrosive cleaning process
Stiff (4)		Preparation coating crystalline Acrylic Spray coating
Doms (6)	Nonuniformly placed (can't see box)	Place correctly/ensure uniform placement
Flare Box (2)	Nonuniformly placed (can't see still)	Place correctly
Stack Chimney (4)	Big components are cracking and falling apart from structure	Repairs, treated areas, wax accessible, fall fallenside
	Unstable condition for steady	Rebuild or repair

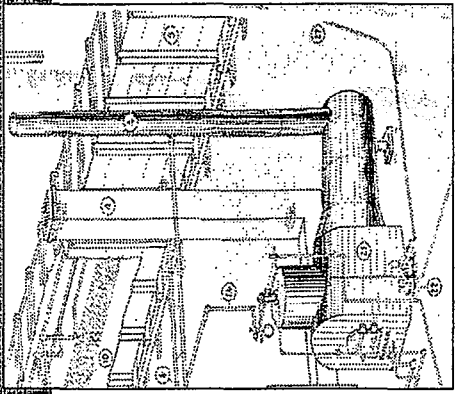
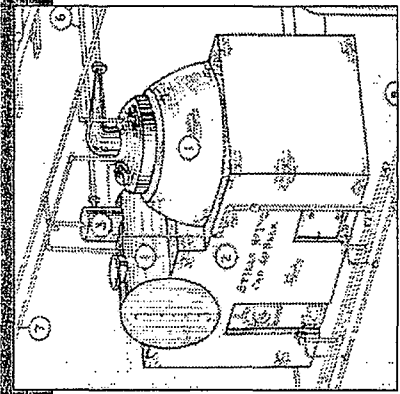


Stiff No. 3	Corrosion	Corrosive cleaning process
Stiff (6)		Preparation coating crystalline Acrylic Spray coating
Flare Box (2)	Big components	Repairs, treated areas, wax accessible, fall fallenside
Flare Box (2)	Fallen over, Corrosion, Coll. Lines (6)	Use (Start) components, restore structure, boxes
Stack Chimney (4)		
Vapor Lines (6)		
Chloro-charging Lines (7)		

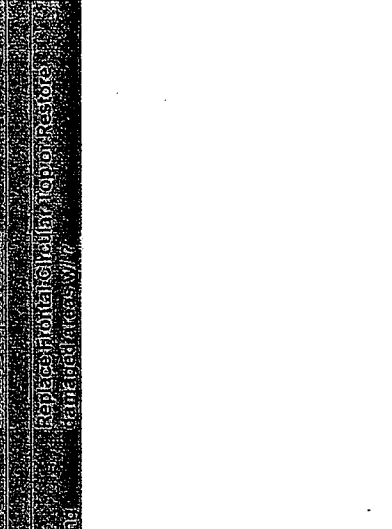
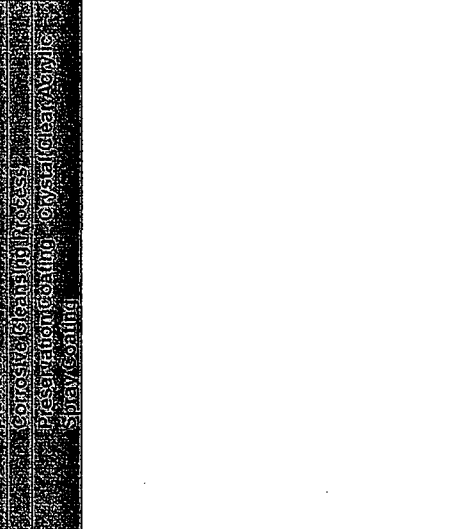


Pioneer Refinery
Structure Inventory

Structure	Problem/Damage	Potential Solution/Improvements
Still No. 1 and 2	Removed from site	Relocate from Pioneer Museum
Boiler (2)	Removed from site	Relocate from Pioneer Museum

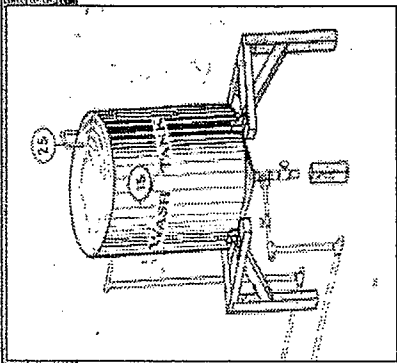


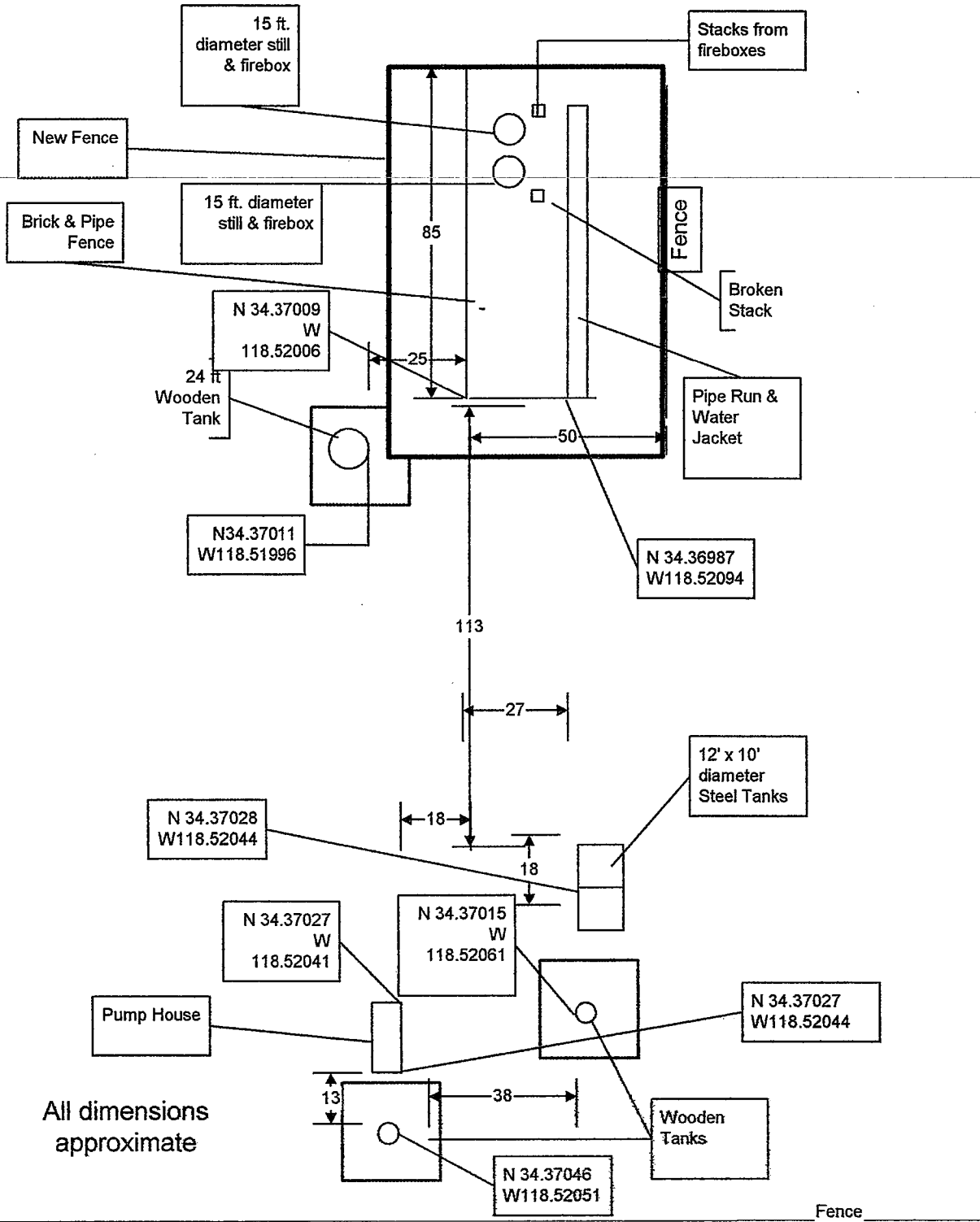
Pioneer Refinery
Structure Inventory

Structure	Problem/Damage	Potential Solution/Improvements
Run-down tanks Tank (A3-A) Tank (A3-B)	 <p> deterioration of metal surface metal structure is deteriorating</p>	<p>Surface Improvement Replace metal structure in problem areas w/</p>
Acid treating tank (M)	 <p> deterioration of wood platform Corrosion</p>	<p>Redesign new platform for tanks of final platform Corrosive Clean Room Process Preservation coating - Epoxy/ Clear Acrylic Spray Coating</p>

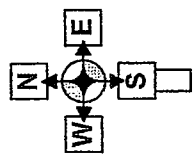
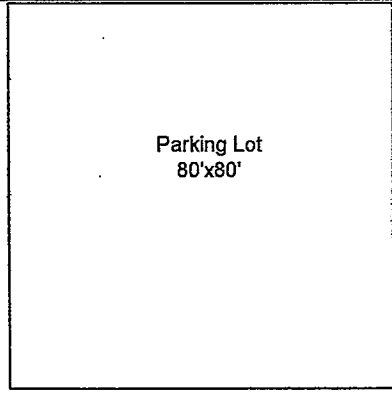
Pioneer Refinery
Structure Inventory

Structure	Problem/Damage	Potential Solution/Improvements
Wash Tank (15)	Deterioration of wooden platform Corrosion	Redesign a new platform to replicate original platform Corrosive Cleaning Process Preservation coating - Crystal Clear Acrylic Spray coating
Residual Tank (18) Pump House	Deterioration of interior and exterior surface of concrete Surface peeling of iron	Restoration of wood (pine) in cedar red wood Water Drainage/Rational Method Fence around tank
X Pipe Lines	Leakage	-

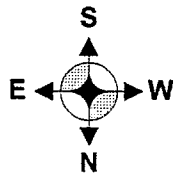
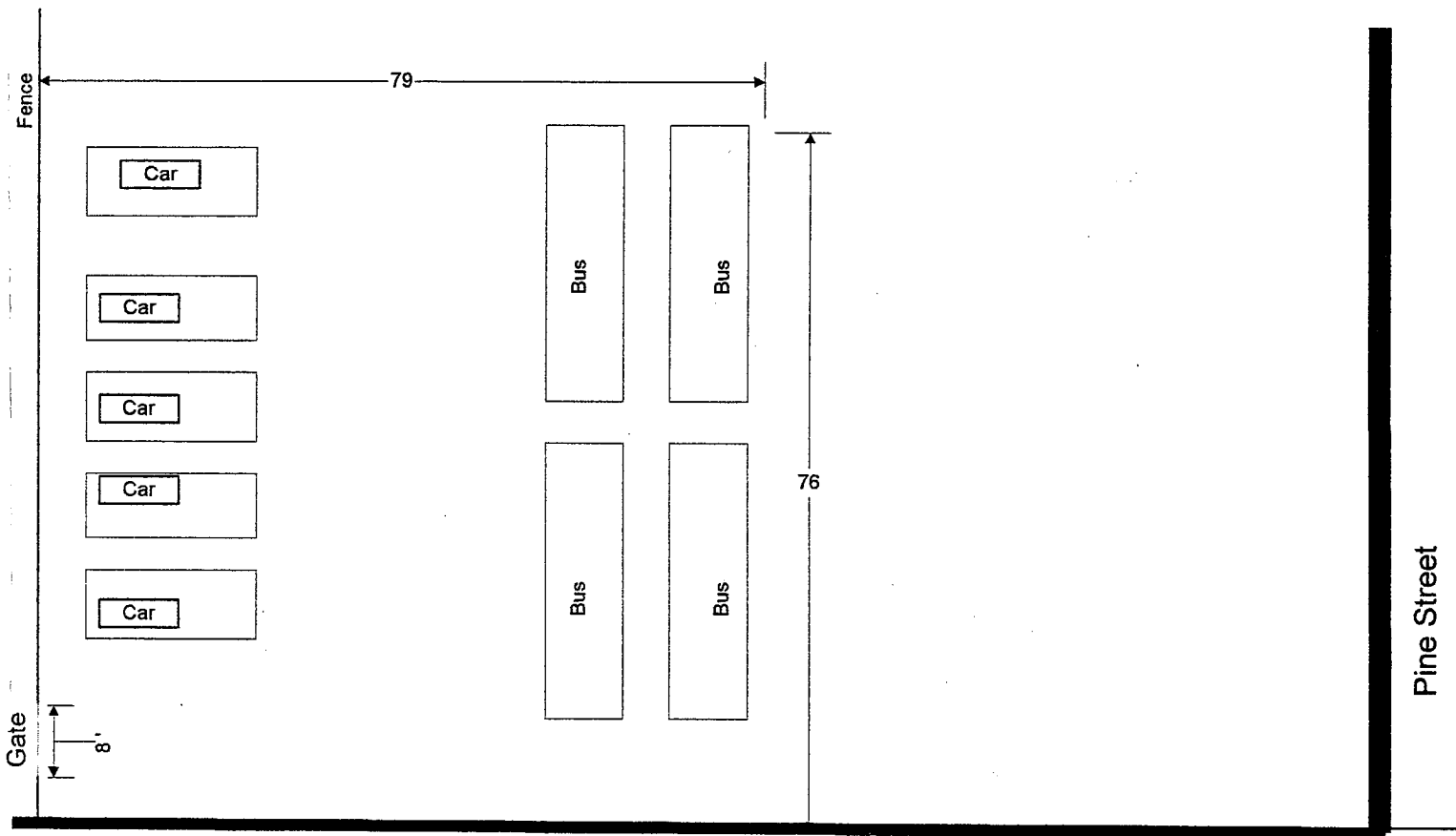




All dimensions approximate



Historic Pioneer Refinery
Site Layout
Scale: approx. 1"=40'



Historic Pioneer Refinery
Parking Lot Layout
Scale: 1"=20'

FUTURE CONTACT

Please direct future correspondence to Ken Trone at the City of Santa Clarita Parks and Recreation Department.

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Park Development Coordinator
Parks Planning Division
City of Santa Clarita Parks and Recreation Department
23920 Valenica Blvd., Suite 120
Santa Clarita, CA 91355
(805) 284-1408
fax (805) 255-1996
ktrone@santaclarita.com

ACKNOWLEDGEMENTS

Chevron wishes to acknowledge the support and effort these individuals have given to help fulfill the vision of developing the Pioneer Refinery Park in Santa Clarita. Their sincere commitments have led us all to success.

Hank Arklin	Neighboring Landowner
Richard Conrad	State Historic Building /Safety Code
Doug Ford	Department of Rehabilitation/ADA
Joseph Inch	Santa Clarita Park and Development Coordinator
Paul Kreutzer	Historical Society – Executive Director
Jim McCarthy	Trail Specialist
Dr. Maria Todorovska	Research Assistant Professor of Civil Engineering at USC
Dr. Mihailo D. Trifunac	Professor of Civil Engineering at USC
Ken Trone	Santa Clarita Park and Development Coordinator
Wayne Weber	Santa Clarita Park and Development Administrator
Laurene Weste	Santa Clarita City Council Member
Leon Worden	<i>The Signal</i> – Special Sections Editor
Chevron Employees	Employees who gave talents and time for success