



City of Carson

Report to Mayor and City Council

September 18, 2012
Unfinished Business

**SUBJECT: CONSIDERATION TO SELECT MEDIAN SAFETY FENCE FOR PROJECT NO. 954:
MEDIAN IRRIGATION SYSTEM AND LANDSCAPING UPGRADE PHASE II, DEL
AMO BOULEVARD FROM AVALON BOULEVARD TO WILMINGTON**

Submitted by Farrokh Abolfathi
Acting Director of Public Works

Approved by David C. Biggs
City Manager

I. SUMMARY

This report is on tonight's agenda by the request of the Mayor and City Council.

The construction of Project No. 954: Median Irrigation System and Landscaping Upgrade Phase II, Del Amo Boulevard from Avalon Boulevard to Wilmington Avenue (Exhibit No. 1) is completed. Inclusive of the scope of work for this project was an objective to find a solution to prevent pedestrians from illegally and unsafely crossing at a section of the median near Avalon Boulevard. Staff considered a fencing that would possibly deter this activity and; therefore, a wrought iron fence was installed as a barrier to prevent pedestrians from crossing the street at the Carson bus stop terminal located on the south side of Del Amo Boulevard; and instead directing foot traffic toward the signalized crossing at the Avalon Boulevard intersection.

Council recommended further options and discussion regarding the aesthetics and beautification of the installed fence.

II. RECOMMENDATION

TAKE the following actions:

1. REVIEW the five proposed median safety fence options of Project No. 954: Median Irrigation System and Landscaping Upgrade Phase II, Del Amo Boulevard from Avalon Boulevard to Wilmington Avenue.
2. APPROVE staff's recommendation of Concept E – temporary, 3.5 ft. high fence, two rails at top and two rails at bottom, based on a photo of a San Francisco median fence.

III. ALTERNATIVES

Take any other action City Council deems appropriate.

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IV. BACKGROUND

The city's Capital Improvement Program (CIP) included construction of the median irrigation system and landscaping upgrade, Project No. 954: median irrigation system and landscaping upgrade phase II, Del Amo Boulevard from Avalon Boulevard to Wilmington Avenue.

The project consists of rehabilitating the existing landscape irrigation system and developing a reclaimed water irrigation system. Approximately 8,500 lineal feet of existing landscape medians required the re-evaluation of the irrigation system and landscaping plants; and the replacement of any deficiencies in either element to enhance the performance and aesthetic of the improvement. The proposed improvements would correct over-watering and decrease maintenance costs through the utilization of drought-resistant plants and solar powered controller devices.

After the removal of the existing plants, at the first 520' raised median on Del Amo Boulevard east of Avalon Boulevard, the contractor installed a temporary and removable wrought iron fence. The fence was installed as a barrier to prevent pedestrians from crossing the street at the Carson bus stop terminal located on the south side of Del Amo Boulevard; and instead directing foot traffic toward the signalized crossing at the Avalon Boulevard intersection. This temporary and removable fence would be removed when the newly planted row of shrubs on the medians are matured, which would create a natural barrier. The cost associated with installation of this temporary wrought iron fence was \$44,850.00.

After the temporary 6' wrought iron fence was installed, staff was instructed to look into the aesthetics and beautification of the fence.

On June 6, 2012, the City Council discussed the aesthetics and beautification concepts of the median safety fence. Staff was directed to investigate the construction of 3.5' high wrought iron fence similar to the pictures presented for a median fence in the City of San Francisco.

On July 3, 2012, the City Council discussed the aesthetics and beautification concepts of the median safety fence. Staff was directed to investigate more options.

The following five concepts are based on chain link fence constructed on Long Beach Boulevard, the existing decorative wrought iron at the City Hall North Parking Lot, the median fence on Norwalk Street by the Bingo Club in the City of Hawaiian Gardens, the 3.5' high wrought iron fence similar to the pictures presented for a median fence in the City of San Francisco.

Concept A (Temporary)	3.5 ft. variable height arched chain link fence, supported every 4.0 ft.	\$24,000.00
Concept B (Permanent)	3.5 ft. variable height arched wrought iron fence, supported every 10.0 ft. on concrete pillars covered with veneer brick similar to existing median monuments	\$140,700.00
Concept C (Temporary/ Permanent)	3.5 ft. variable height arched wrought iron fence (same as above), supported every 10.0 ft. on steel posts on the existing footings	\$53,100.00
Concept D (Temporary/ Permanent)	3.5 ft. high fence, two rails at top and one rail at bottom. Supported every 10.0 ft. on concrete pillars covered with stucco.	\$82,000.00
Concept E (Temporary)	3.5 ft. high fence, two rails at top and two rails at bottom, based on San Francisco median pictures.	\$43,350.00

It should be noted that the final color for the fence was selected to be black.

Staff recommends Concept E, which is similar to a picture of a median fence located in the City of San Francisco, and associated cost to install this fence is within the project budget.

The estimated available fund balance as part of the project contingency is \$60,000.00.

The accomplished and anticipated timeline for this project is as follows:

Approval of PS&E	September 6, 2011
Advertise Notice Inviting Bids	September 23, 2011
Award of Construction Contract	November 15, 2011
Start of construction	January 2, 2012
Construction of landscaping and Irrigation System completion	August 25, 2012
Fabrication and Installation of the new median fence completion	November 2012

V. FISCAL IMPACT

This CIP project is funded by the Measure R Local funds and a grant from the West Basin Municipal Water District. The approved project funding sources, account numbers and amounts are as follows:

Fund Source	Account No.	Amount
Measure "R"	54-80-500-999-8008/0095401	\$1,108,378.00
West Basin Municipal Water District grant	69-90-500-003-8024/0095401	\$15,000.00
TOTAL		\$1,123,378.00

The cost associated with each concept will be deducted from the project contingency in the amount not-to-exceed \$60,000.00.

VI. EXHIBITS

1. Location Map. (pg. 5)
2. Pictures of Concept A-E. (pgs. 6-11)

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Prepared by: Rick Boutros, P.E., Associate Civil Engineer

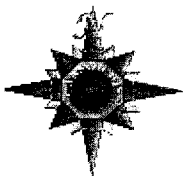
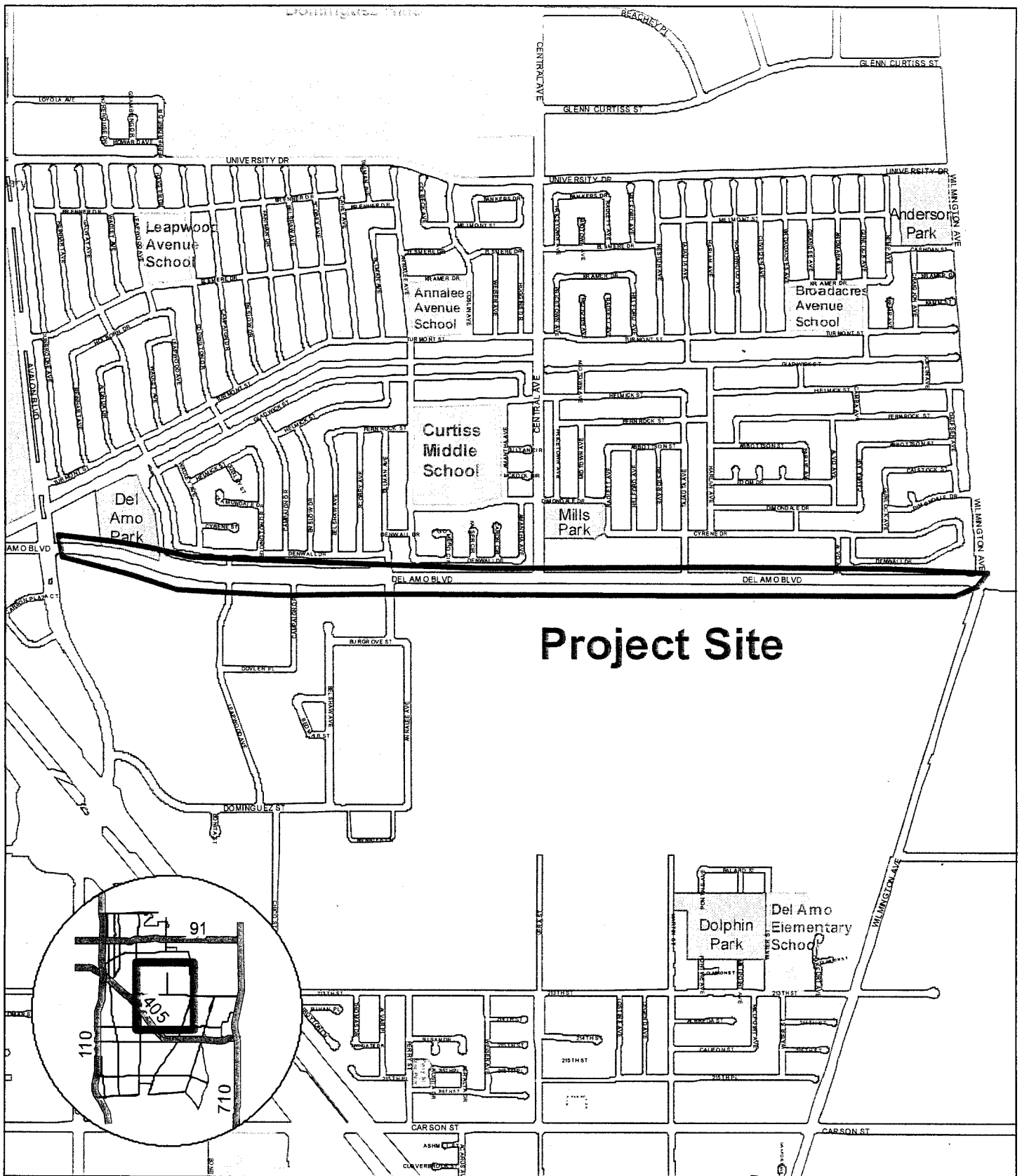
TO: Rev09-04-2012

Reviewed by:

City Clerk	City Treasurer
Administrative Services	Public Works
Community Development	Community Services

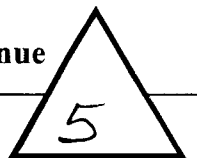
Action taken by City Council

Date_____ Action_____



Location Map
Project No. 954
Median Irrigation System and Landscaping Upgrade
along Del Amo Boulevard from Avalon Boulevard to Wilmington Avenue

EXHIBIT NO. 1



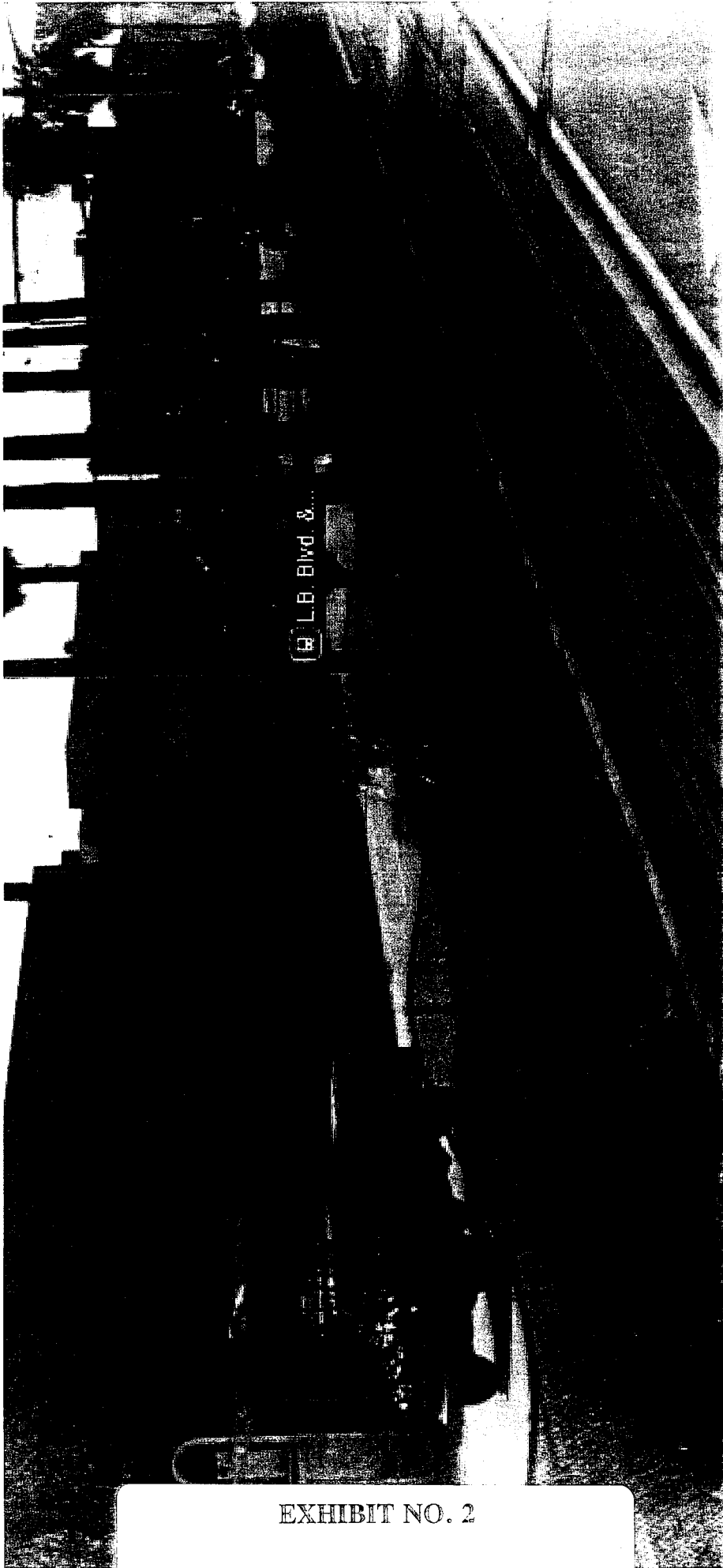
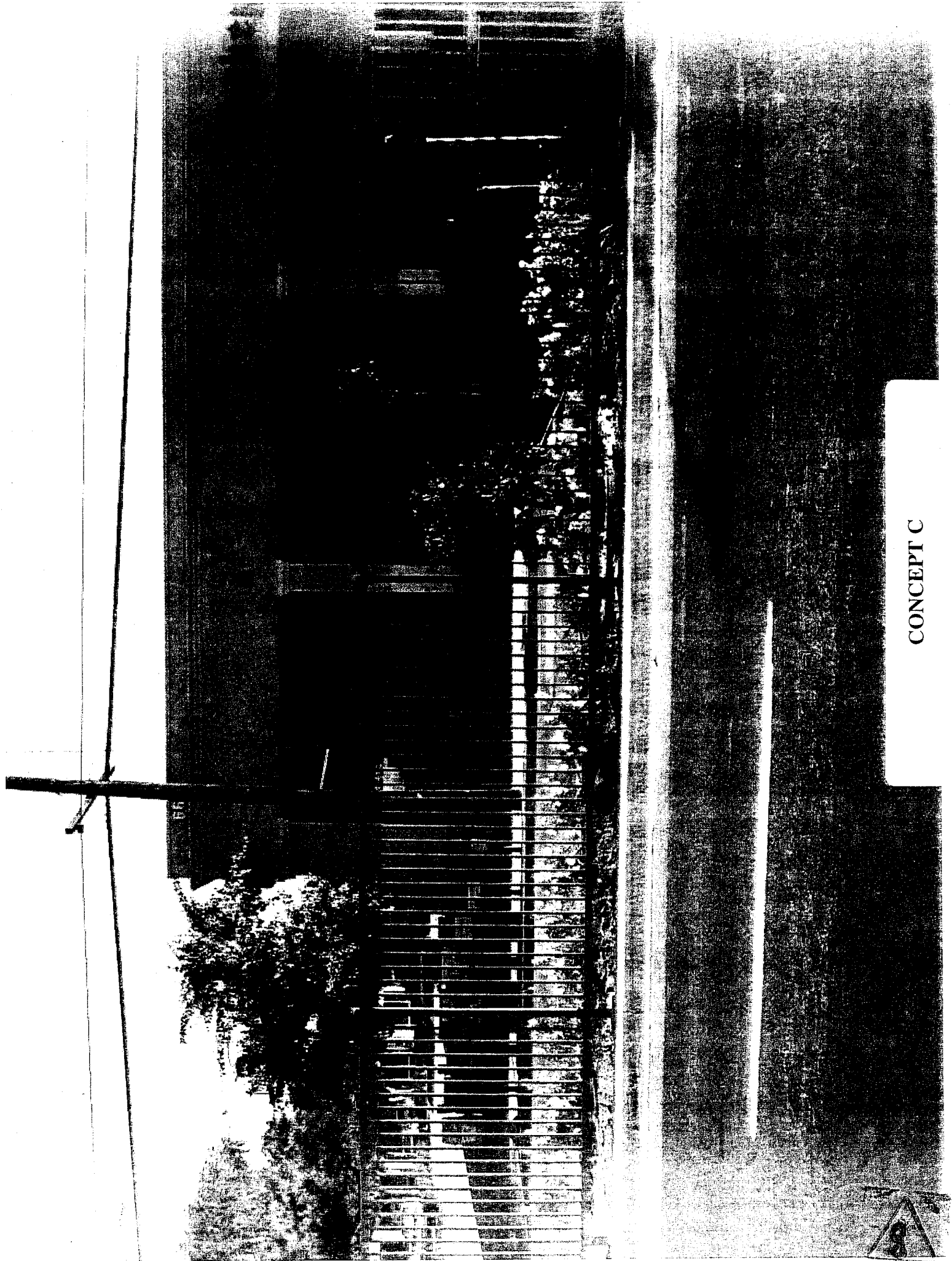


EXHIBIT NO. 2

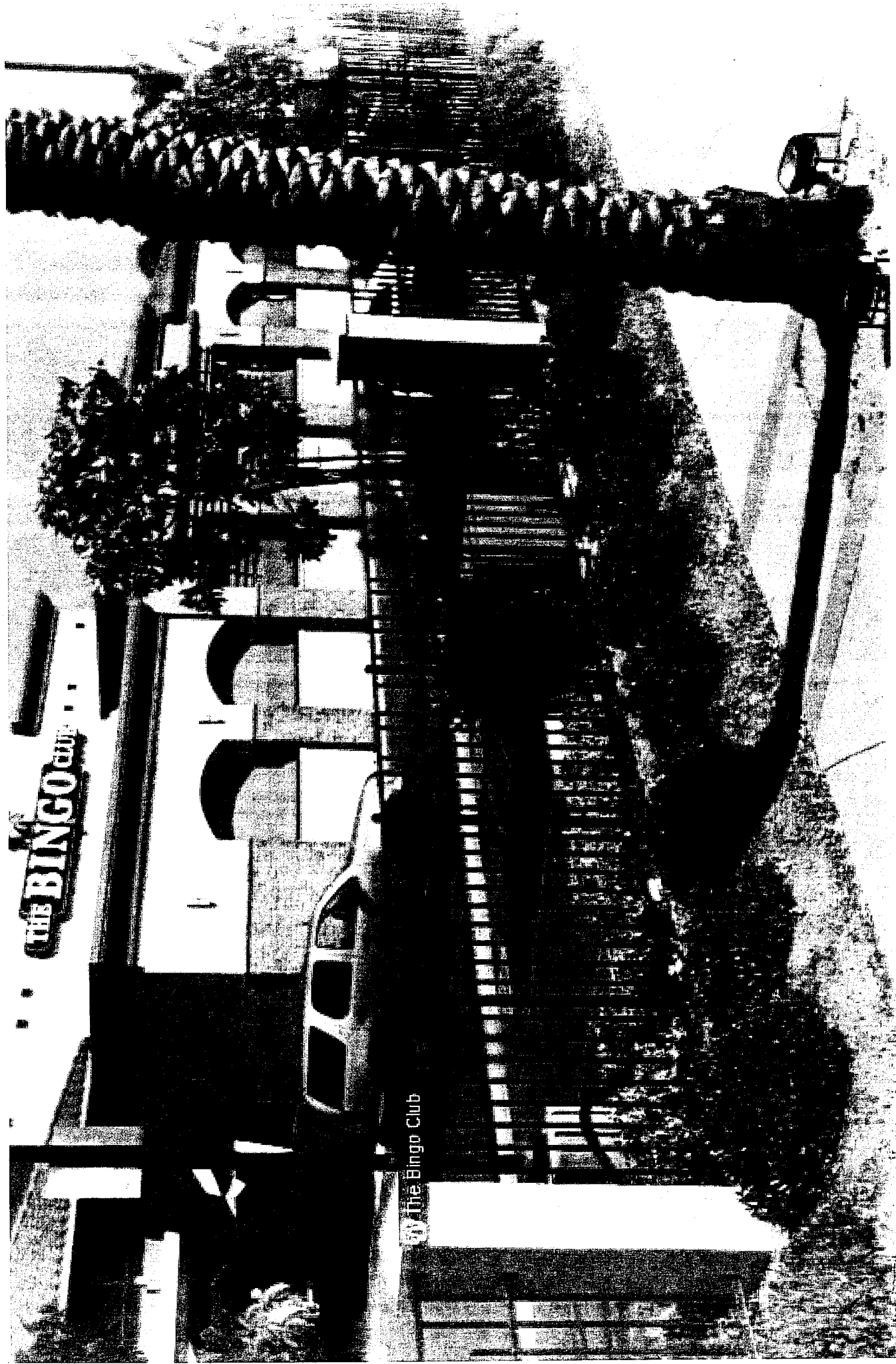
CONCEPT A



CONCEPT B



CONCEPT C



CONCEPT D



CONCEPT E

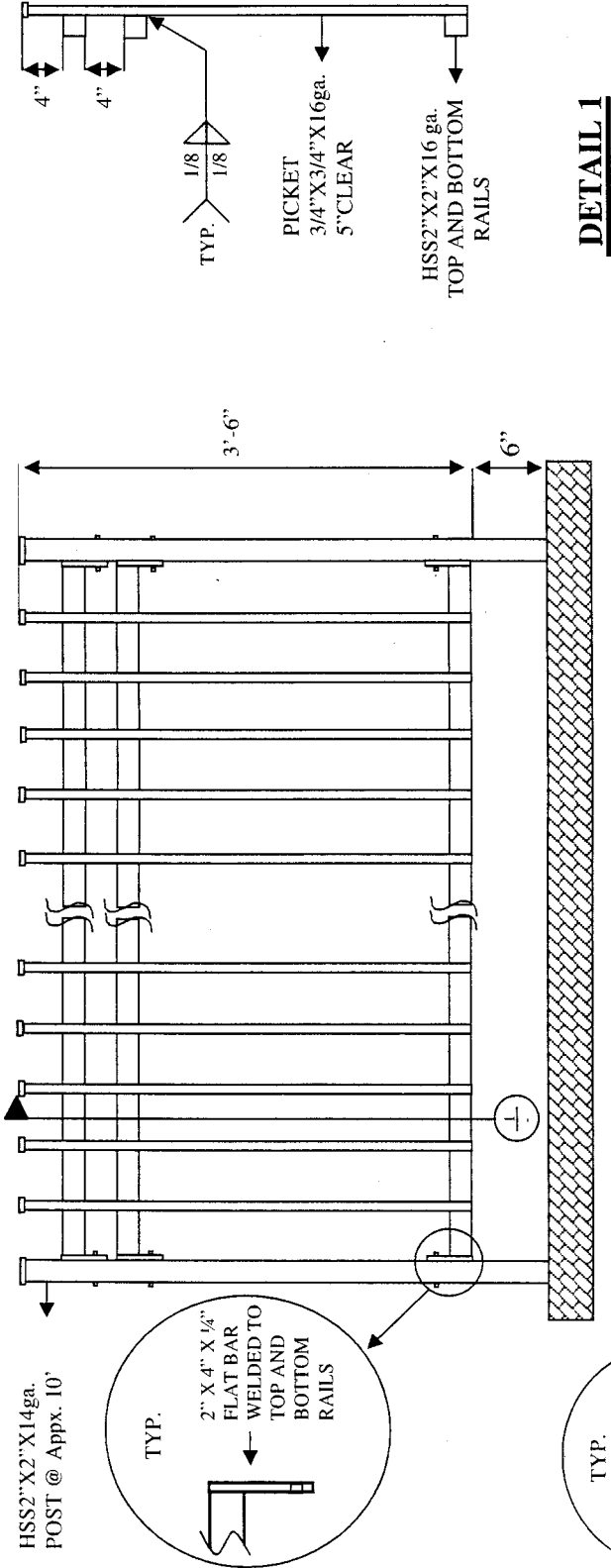


Roval Iron Works,
38579 6th E.
Palmdale Ca. 93550
Phone: 661-274-9476
Fax: 661-274-7624

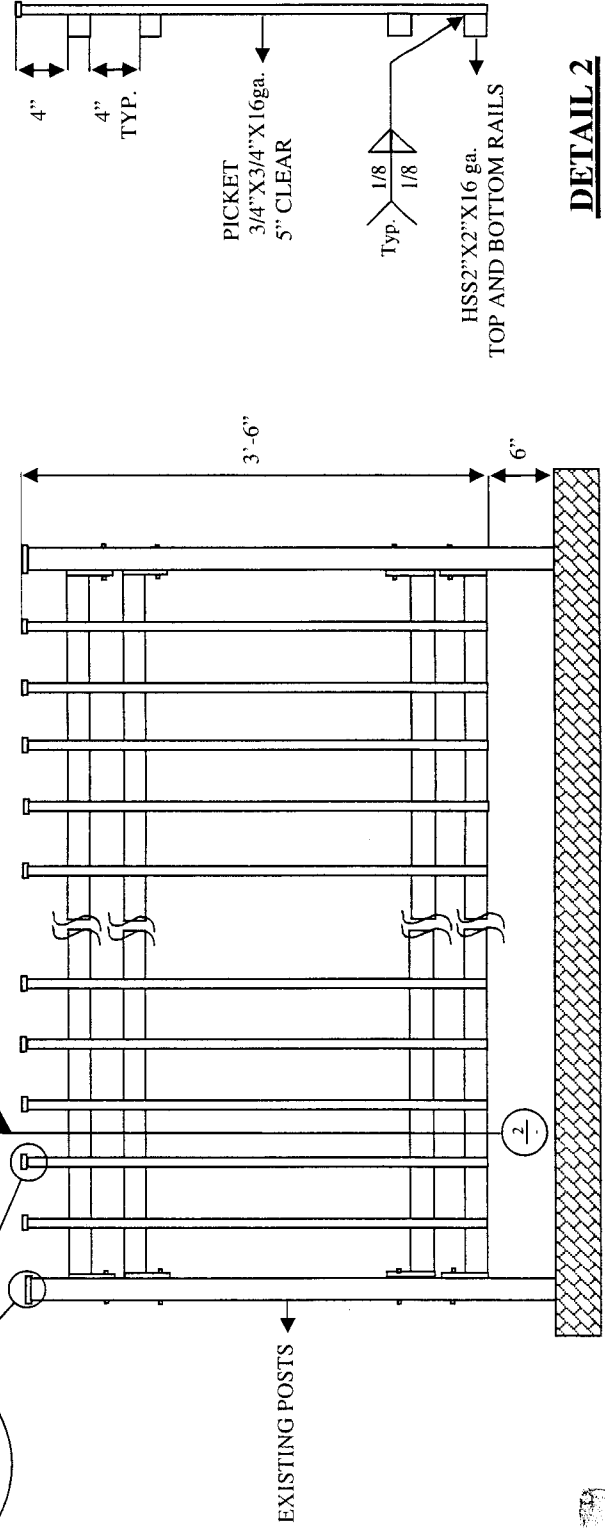
Project: DELAHO BLV. IMPROVEMENT	General Contractor: PIMA CORP.	Date: 06/26/2012
RAILING DETAIL		
NO SCALE		

Note:

- All parts will be covered with a coat of shop primer.
- Concrete footing by general contractor.
- Extra posts for 100ft. additional rails
- 2"x2"x14ga.
- 5" spacing between pickets is not to the code and R.I.W. does not accept any responsibility for that



OPTION 1



OPTION 2

