

RESOLUTION ADOPTING CREEKWAYS POLICY

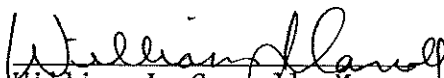
BE IT RESOLVED, that the City Council of the City of Vacaville does hereby adopt a "Creekways Policy" as outlined in Exhibit "A"; and

BE IT FUTHER RESOLVED that the City Council of the City of Vacaville does hereby allow that conditional restrictions to public access be constructed, behind Arbor Oaks Drive residences, adjacent to old Alamo Creek.

I HEREBY CERTIFY that the foregoing resolution was introduced and passed at a regular meeting of the City Council of the City of Vacaville, held on the 11th day of July 1989, by the following vote:

AYES:	Council members Lowe, Vice Mayor Lopez, and Mayor Carroll
NOES:	Council members Fleming and Conner
ABSENT:	None

APPROVED:

  
William J. Carroll, Mayor

ATTEST:

  
Kathleen M. Andronico, City Clerk



The City of Vacaville considers the creeks and their adjoining setbacks to be a natural resource that is both a conduit of water runoff and a natural habitat. The City recognizes that these natural conduits can also serve as transportation links for bikes and pedestrians; sources of active and passive recreation; as well as open space corridors that preserve this City's quality of life.

PROPOSED CREEKWAYS POLICY PLAN

I. Public Access

A. Development - Creekside development shall provide and improve public access using the following guidelines and standards:

1. The creek setback is determined by measuring 40' back from that stable top of bank. The stable top of bank is determined by measuring from the toe of slope within the creek to the top of bank at a 2:1 slope. A soils engineer may be required to determine the stability of the bank material.
2. Wherever possible place public streets parallel or adjacent to creeks with a 40' setback from stable top of bank.
3. All creek bank and channel frontage along a project shall be cleaned to the extent that construction and other unsightly debris be removed. A site inspection with the developer and City staff shall be required for compliance during the planning stage and prior to final Council acceptance.
4. Erosion damaged creek banks are to be stabilized and/or repaired to the extent that natural vegetation can be re-established. Methods of stabilization shall be:
  - a. Rock rip-rap
  - b. Precast, interlocking blocks with planting pockets
  - c. Wired brush wattling (Willow or Cottonwood cuttings bundled and buried into the creek bank for rooting)
  - d. Gabions (wire baskets filled with rocks)
5. Bike trails shall be required as necessary to link up with existing as well as proposed adjacent public trails. See detail #1 for specification requirements.
6. Multi-use prefabricated bridges may be required to link trail sections. If such a connection is required, see detail #2 for specification requirements.
7. Vehicular restrictive devices on trails shall consist of removable bollards (detail #3) and/or bar gates (detail #4).
8. Lighting of access points on streets or cul-de-sacs shall be accomplished with standard street light luminaries placed to illuminate both the street and the trail point of entry.

9. Automatically irrigated landscaping may be required in situations that need screening or barriers. Examples: private property privacy protection, separately between trails and streets, directional protection of public facilities or environmentally sensitive areas. See Section 2 "Ornamental Vegetation" for a list of acceptable plants for such purposes.
  10. Bike trail rest areas may be required at key intersections of major arterials, creek crossings, adjacent park sites, key natural features or vistas, or prescribed distances (example: every 1/2 mile). Amenities required at these rests are:
    - a. Picnic tables - detail #5 (minimum 2)
    - b. Informational kiosk - detail #8
    - c. Potable water point of connection and sump drain - detail 9.
    - d. Regulatory sign posts - detail #7
- B. Transportation - The City shall develop a 10 year plan to systematically complete a bike trail system along Alamo Creek and Ulatis Creek. This system would be coordinated with on-street bike lanes, controlled intersections, bike rests, and bus stops to improve access to schools and other public facilities, as well as commercial centers. Criteria for developing a section of trail would be as follows:
1. Available funds and land.
  2. Population access needs such as: the number of public and commercial facilities in a given area.
- C. Recreation
1. Parks - Wherever a creek fronts on a City park the creek will be considered part of that parks designed use.
  2. Creek Pedestrian Trails - Near appropriate public facilities (i.e. parks, community centers, libraries, and schools), interpretive nature as well as walking trails could extend the use of those facilities.
  3. Creekway Bike Trails - Exercise and facilitates access to other recreation activities.
  4. Quiet Relaxation - Placement of benches and picnic tables will allow passive activities such as reading, wild life observation, and personal reflection.
- D. Privacy Protection of Residential Property Adjoining Creeks - Initiate a creekway patrol program that would have a police ranger powers. This person could serve as a deterrent to illegal activities in creeks as well as discouraging incidental harassment of private property. Where the design option exists, the City will strive to locate all trails as far away from private property as site conditions allow. Design constraints are:

1. Preservation of desirable existing vegetation.
2. Existing and proposed grades.
3. Size of the setback.
4. Location of a stable top of bank or erosion potential.

New Development privacy protection options will be as follows in order of priority:

1. Raise building pads above setback grades.
2. Construct a six foot solid fence on private property to separate it from the public creek setback.
3. Plant naturalizing vegetation screening on the private drainage basins adjacent to the private fence.

Existing development privacy protection options will be as follows in order of priority:

1. On elevated grade situations where grading will cause damage to existing vegetation. Allow property owners height variances for extending their fences above the six foot limitation.
2. Plant naturalizing vegetation screens adjacent to the fence on the public setback.
3. Raise existing fence heights 2 feet through a variance.
4. Restrict or divert public access in such a way that will not hinder the designed use, public safety use, or enjoyment of the area.

- E. Public Awareness and Participation - The City would construct a directional/informational kiosk system at key trail/street intersections and bike rests. A self-guided or ranger interpretive walk could be facilitated by kiosks or recreation programming.

## II. Open Space and Drainage Management

- A. Flood Control - The creeks are the primary conduit for storm water, public access, as well as recreation facilities must not hinder that function. Cooperation with Public Works on design, use, and maintenance is extremely important.
- B. Erosion Control - The City should annually fund a significant amount to restore or protect eroded creek banks. Repairs would be to protect public facilities only. Types of repairs would vary according to the situation but options used in the past are:
  1. Large rock rip-rap.
  2. Precast, interlocking concrete blocks with planting pockets.

3. Wired brush wattling. (Willow or Cottonwood cuttings bundled and buried into the creek bank for rooting)
4. Gabions. (Wire baskets filled with rock)
5. Protected re-vegetation.

The City Public Works Department and City Landscape Architect would also provide technical information for private property owners on these methods.

- C. Vegetation Management Policy - To maintain and protect ornamental and native plants, in the creeks, that prevent erosion, provide food and cover for wildlife, protect privacy, and promote the heritage and quality of life of Vacaville.
  1. Native vegetation should be managed to protect the oak woodland/riparian species of a woody character that affords bank/erosion protection as well as shelter and food for wildlife. The soft herbaceous plant life affords wind and water erosion protection but also creates a high fire potential. Native plant maintenance is defined as facilitating and protecting the natural processes that support the continuation of plant species and communities. The creeks should be mapped and plant distribution recorded to prevent the reduction of our native plants. Such a map or survey could be a multi-year project through a wet land preservation grant or college student project. With such a study we can plan re-vegetation projects in conjunction with erosion repair. We can also plan to replace plants after fires or if certain species start to die off. We could also do some age studies on our oak trees to plan for a systematic reforestation project in highly visible public areas such as; Andrews Park, Community Center, and Jepson Junior High School.

#### WOODY PLANTS

Live Oak	Willow
Valley Oak	California Bay
Box Elder	Elderberry
White Alder	Toyon
Wild Rose	Walnut
Fremonts Cottonwood	Buckeye

#### HERBACEOUS

Wild Oats	Horsetail
California Poppy	Wild Rye Grass
Lupine	Monkey Flower

2. Ornamental vegetation could be introduced along street/creek frontages and in areas requiring visual screening of private property. However, we must pick plant material that shall be of a low water use or xeriscape character. Examples:

Baccaris	Acacia
Ceanothus	Silverberry
Bottle Brush	Buckwheat
Gooseberry	Flannel Bush
Juniper	Grevillea
Coprosma	Oleander
Rock Rose	Plumbago
Red Bud	Rosemary
Cotoneaster	Salvia
Manzanita	

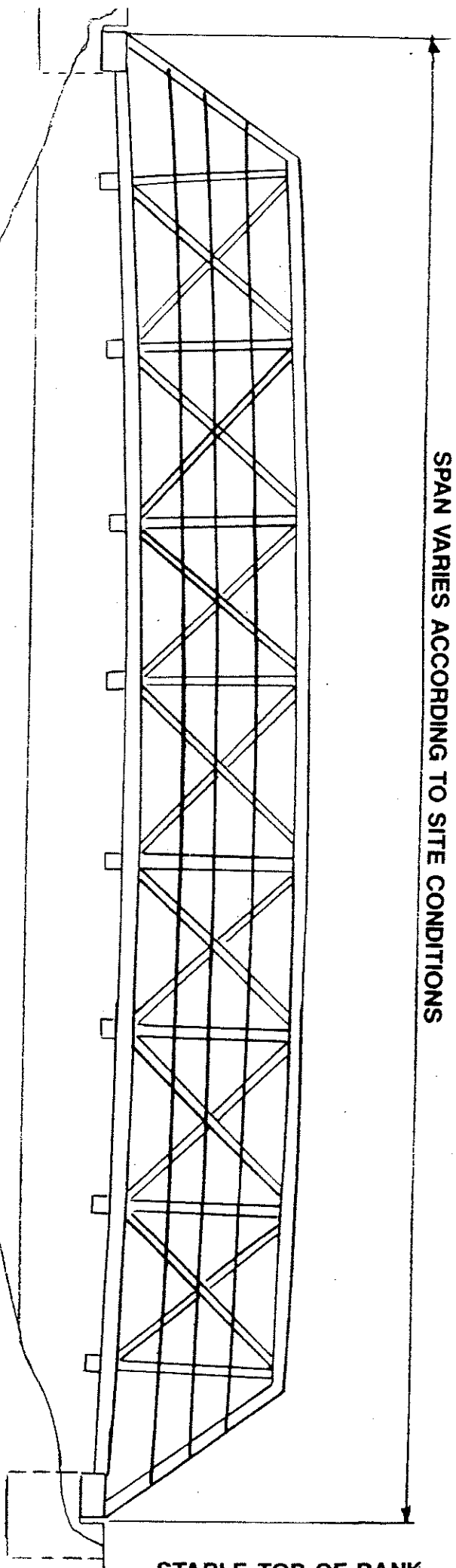
3. "Weed" abatement for fire prevention shall be accomplished through mowing or trimming in 90% of the creekway setbacks. In only 10% of those areas will the City use a non-residual herbicide such as 'Round-Up' or 'Rodeo'. Any herbicide use would be in strict compliance with both state pest control and fish and game regulations.
4. Plant debris removal will be selective to prevent high fire fuel build up yet allow for natural food, shelter, and soil nutrient accumulations for plant and animal community preservation. Utilizing CMF Community Service Crews, supplemented by contractual equipment as needed, the City will organize a systematic clean up of our creekways.

#### DESIGN REVIEW AND POLICY IMPLEMENTATION

##### A. Departmental Responsibilities:

1. Parks and Recreation - Review all creekway policy factors as they pertain to proposed improvements in or adjacent to City maintained creeks. Coordinates all creekway maintenance landscaping, and bike trail development with Public Works. Coordinates all weed abatement and designed fire vehicle access with Fire. Advises property owners on bank stabilization planting.
2. Community Development - Provide coordination of the creekway policy with subdivision design standards and provision outlined in the General Plan.
3. Police - Provide input on security standards and coordination of a ranger/officer patrol program.
4. Fire - Provide input on natural vegetation fuel level concerns, fire break and weed abatement requirements, and emergency vehicle access.
5. Public Works - Consults with the Parks and Recreation Department on all proposed creek improvements that could affect the natural riparian habitat or recreational use of the creekways. Advises property owners on bank stabilization techniques.

SPAN VARIES ACCORDING TO SITE CONDITIONS

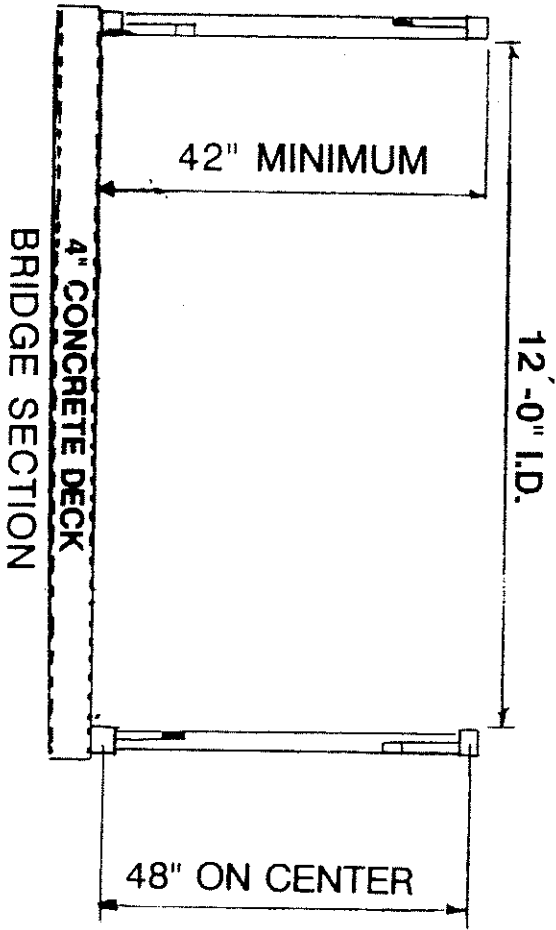


**NOTES:**

SIZE OF FOOTING VARIES  
DEPENDING ON SOIL TEST DATA

PREFABRICATED BRIDGE AVAILABLE BY  
CONTINENTAL BRIDGE 1-800-328-2047

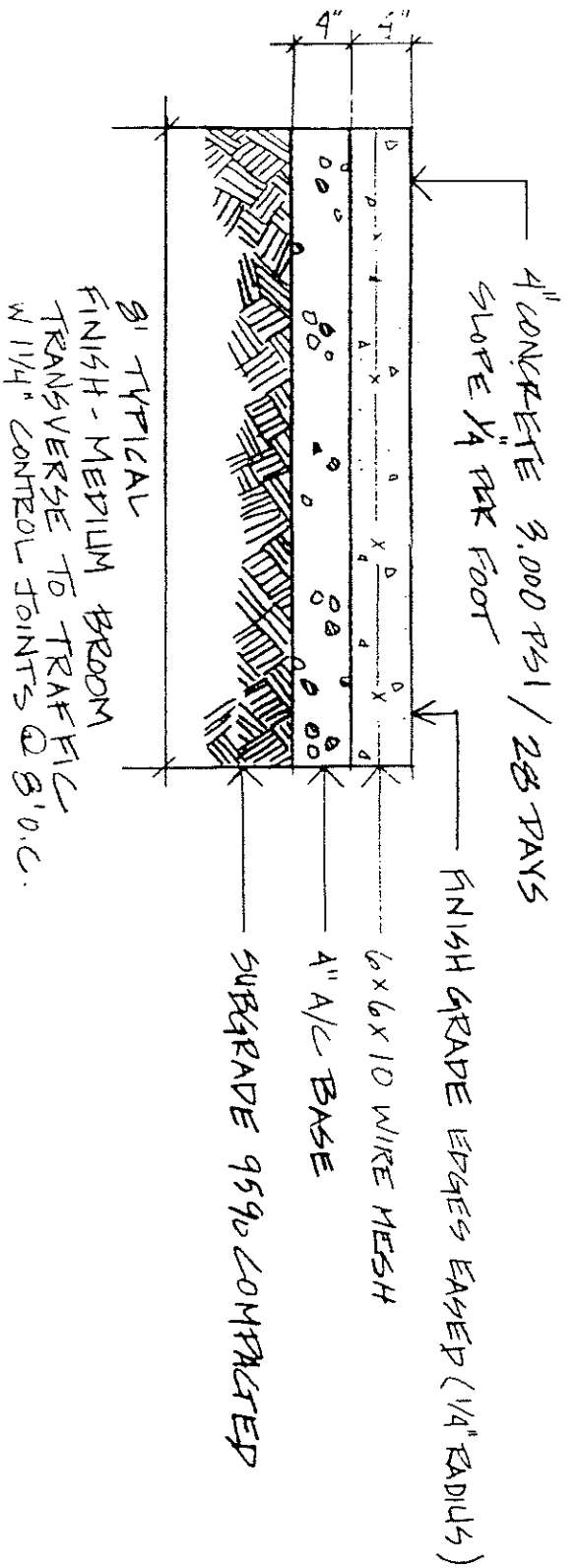
10,000 LBS. LOAD CAPACITY



# 2 TRAIL BRIDGE

PARK PLANNING DIVISION





NOTES

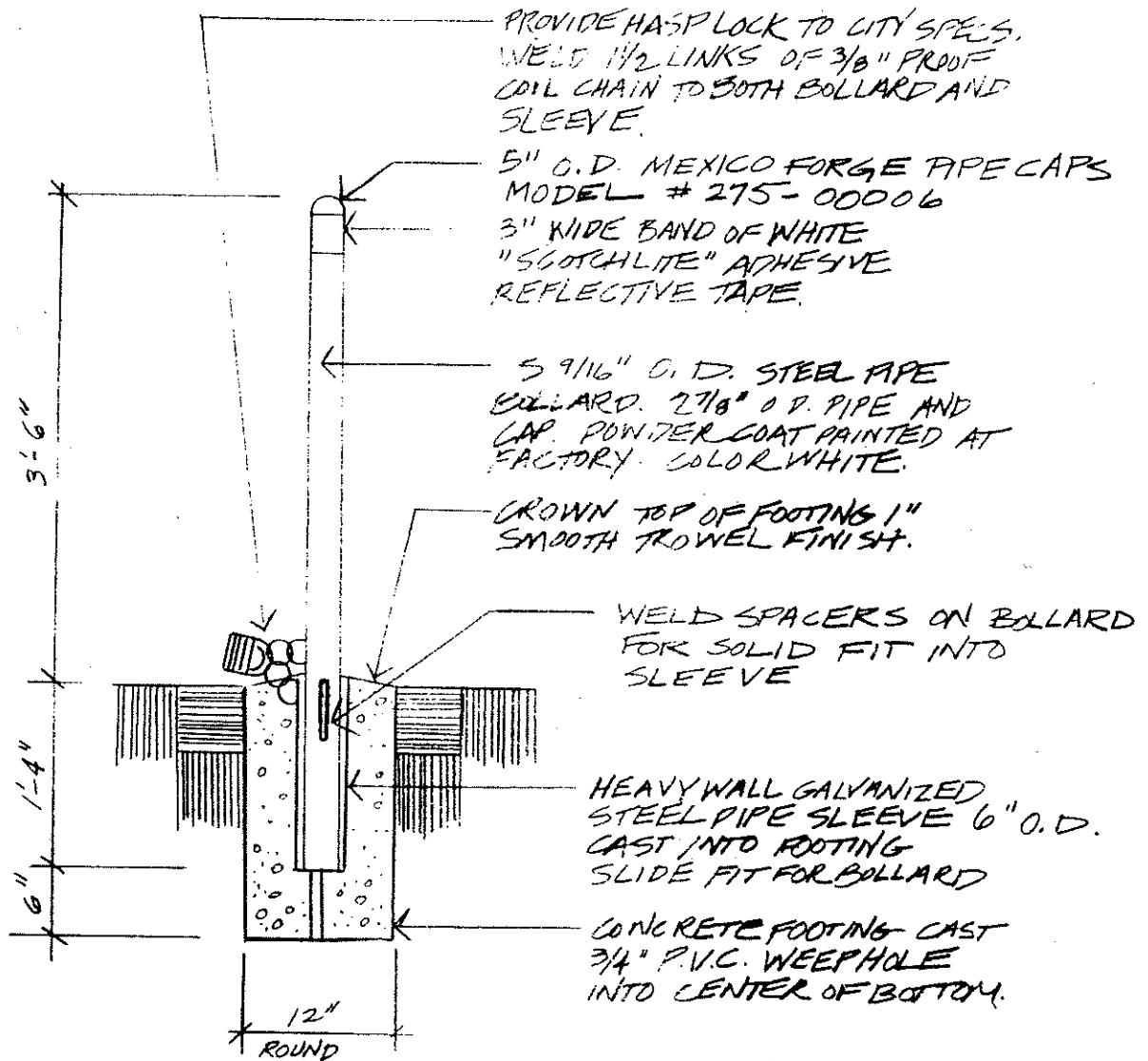
CONTRACTOR SHALL PROVIDE 4" SCH 80 R/L SLEEVES TO BE LOCATED EVERY 500'. AT A DEPTH OF 30" THROUGHOUT PROPOSED WORK. SHALL PROVIDE 4" INSTALL 12" X 14" ACCESS BOXES ON BOTH SIDES OF SLEEVE. ACCESS BOXES TO BE SET AT GRADE WITH BOLTED OR SCREWED LIDS.

BIKE TRAIL SHALL DRAIN TOWARD GREEK WITH 24" SHOULDERS TO BE 1" BELOW FINISHED CONCRETE

ALL COUP JOINTS SHALL BE DOWELED

PRIME TO COMMENCEMENT OF WORK CONTRACTOR SHALL PROVIDE A 3 FOOT SAMPLE FOUR TO BE SUBMITTED TO CITY LANDSCAPE ARCHITECT # 707-449-1830 FOR INSPECTION AND APPROVAL.

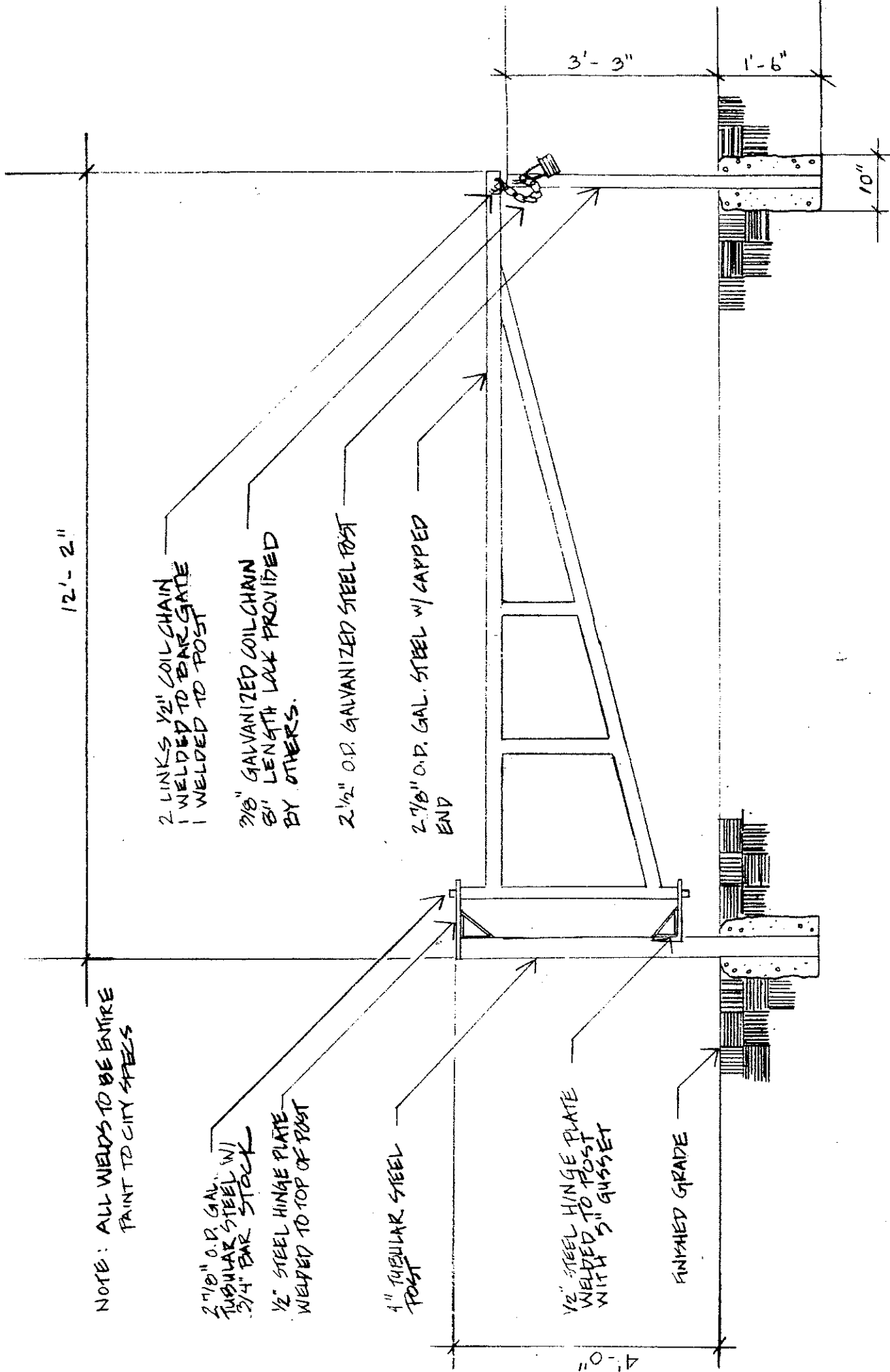
# 1 CONCRETE BIKE TRAIL



### 3 REMOVEABLE BOLLARD

3/4" = 1.0'

PARK PLANNING DIVISION



# 4 VEHICULAR BAR GATE

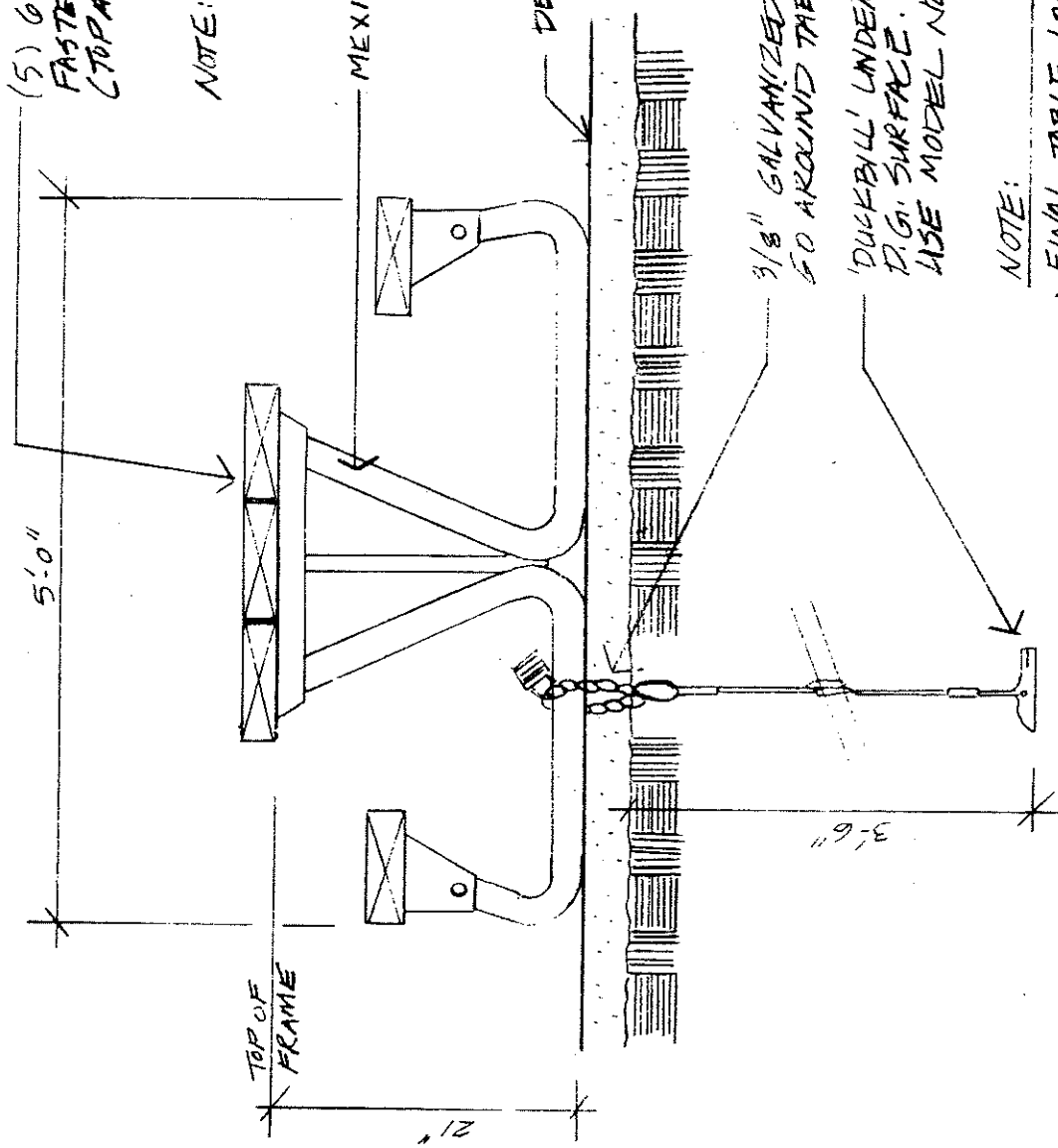
1/2" = 1.0' PARK PLANNING DIVISION

(5) 6' LONG 2X10 S4S DOUGLAS FIR FASTEN TO FRAME WITH 1/2" H.D.G. CARRIAGE BOLTS (TOP AND SEATS). SPACE TOP BOARDS 1/2".

NOTE: ALL WOOD TO BE SELECT STRUCTURAL GRADE

MEXICO FORGE MODEL S12-001 FRAME, H.D.G.

DECOMPOSED GRANITE SURFACE



3/8" GALVANIZED PROOF COIL CHAIN, LENGTH SUFFICIENT TO GO AROUND TABLE LEG. PROVIDE HASP LOCK TO CITY SPECS 'DUCKBILL' UNDERGROUND EARTH ANCHORS - HOLD LOOP BELOW D.G. SURFACE. (2) ANCHORS, CHAINS AND LOCKS PER TABLE USE MODEL NO 80081.

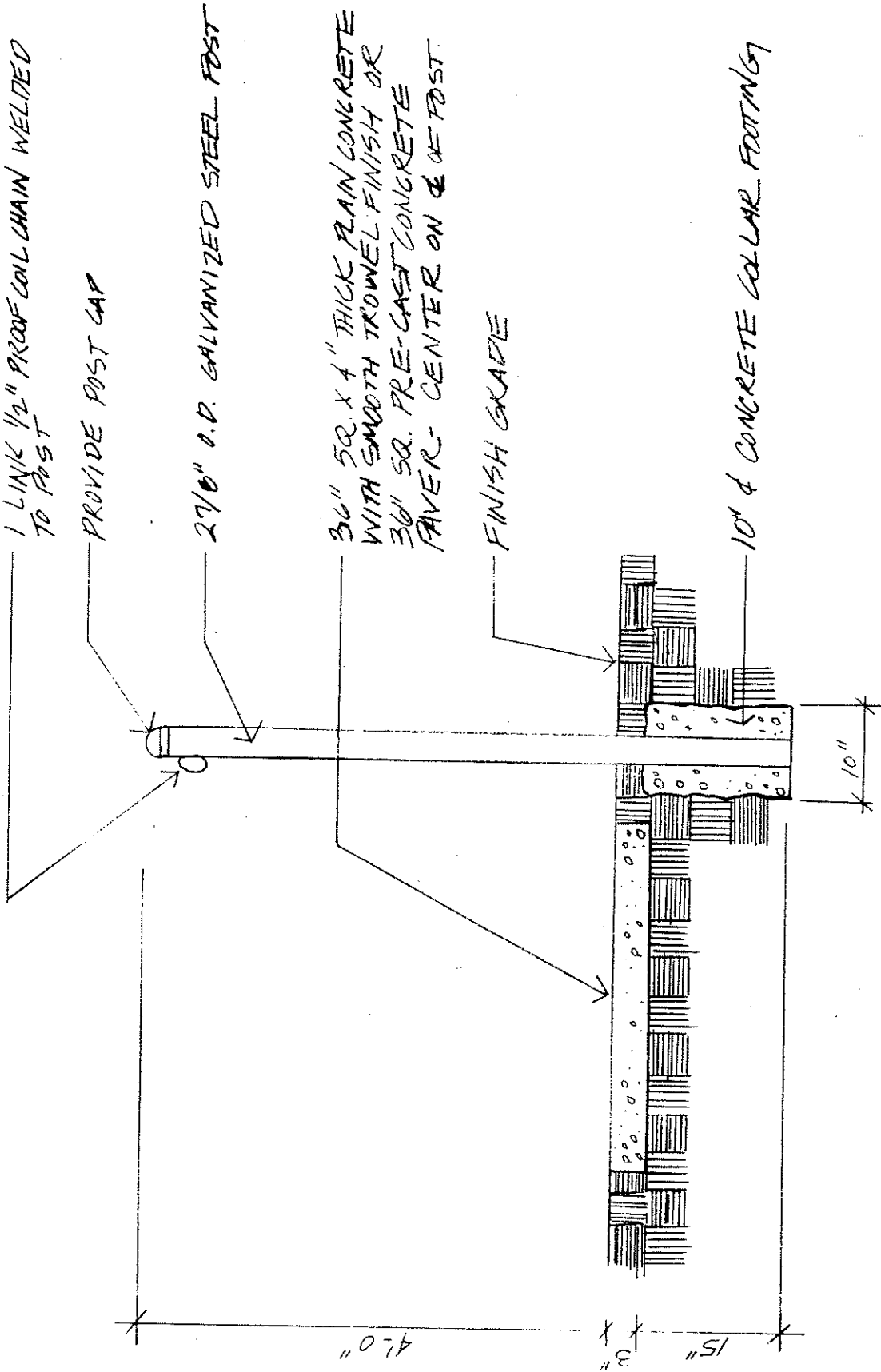
NOTE:

FINAL TABLE LOCATIONS TO BE APPROVED BY LANDSCAPE ARCHITECT ON SITE PRIOR TO ANCHORING.

SEAL REDWOOD ALL SIDES WITH 3 COATS 'PENOFIN' TRANSPARENT REDWOOD. NO SUBSTITUTES.

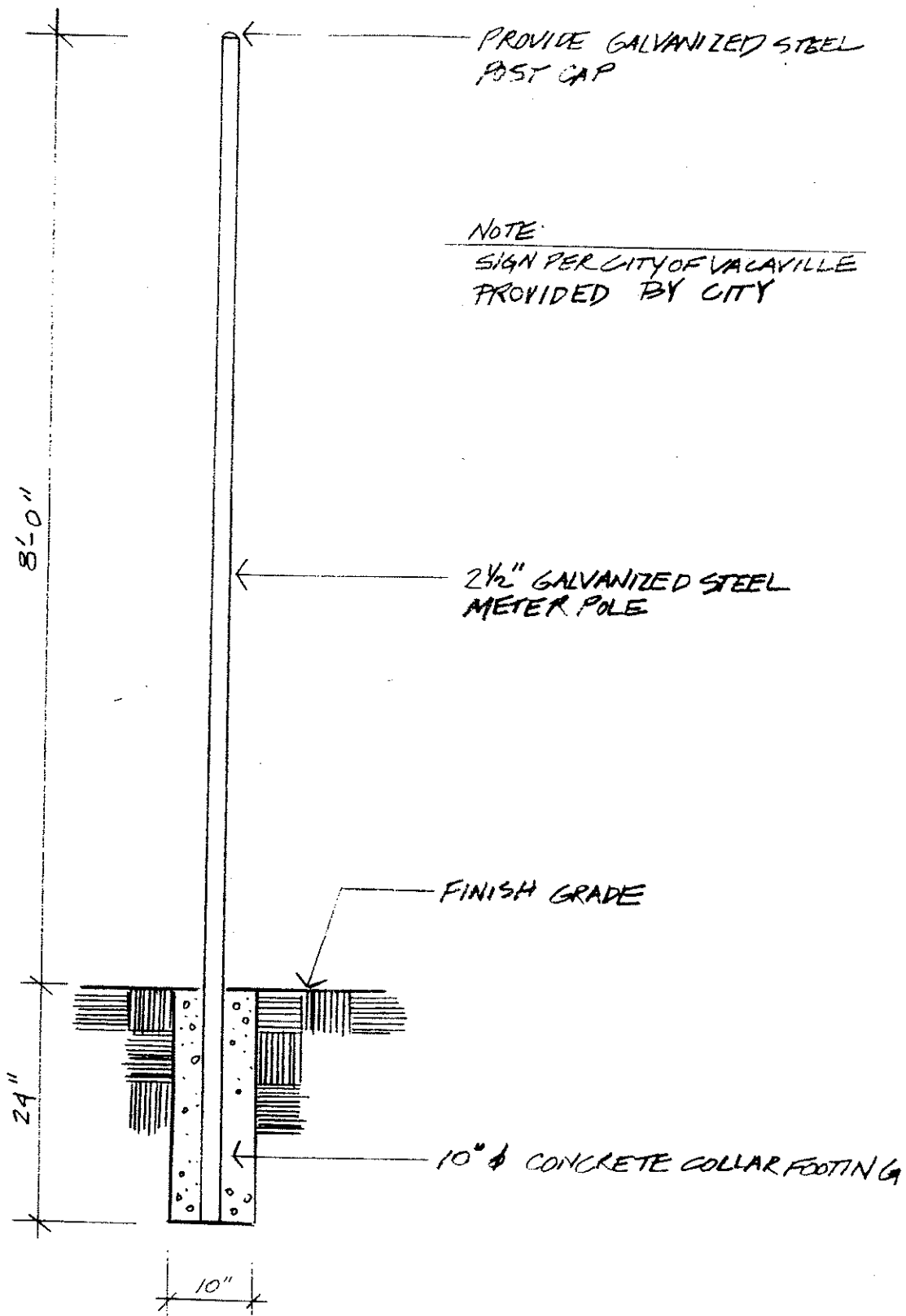
# 5 PICNIC TABLE

3/4" = 1.0' PARK PLANNING DIVISION



# 6 TRASH RECEPTACLE PAD AND LOCKING POST

3/4" = 1'0" PARK PLANNING DIVISION



**7**

**PARK REGULATION SIGN POST**

3/4" = 1.0' PARK PLANNING DIVISION

8' OVERALL LENGTH

8' FINISH GRADE TO EAVE  
12' OVERALL

ROOF PITCH 3:1  
W/ ASPHALT SHINGLES

5/8" FLY WOOD EXTERIOR GRADE

2x6 DOUG. FIR

10x10 REDWOOD POST

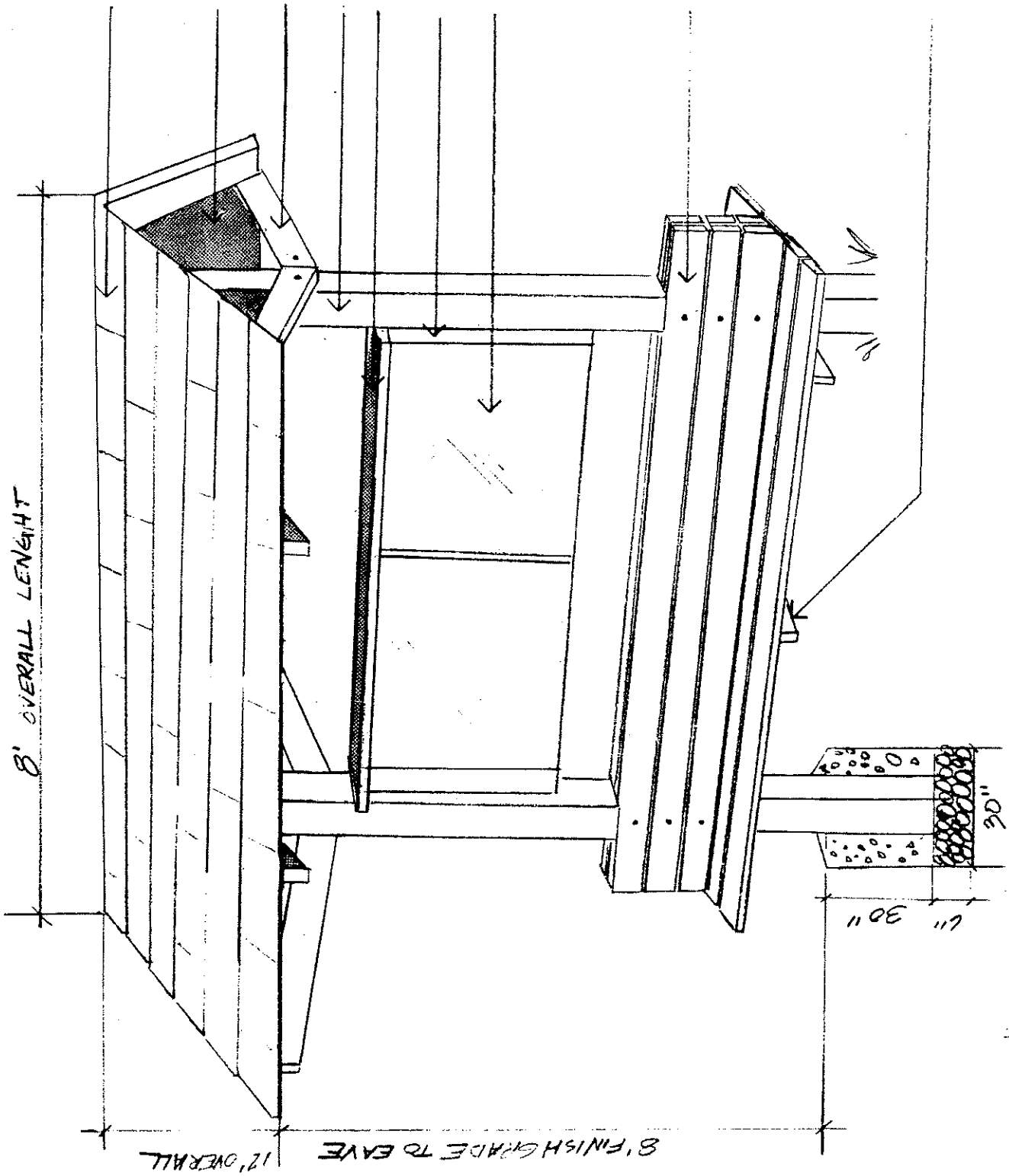
2x6 REDWOOD

2x4 REDWOOD FRAME

1" CDX PLEXEGLASS

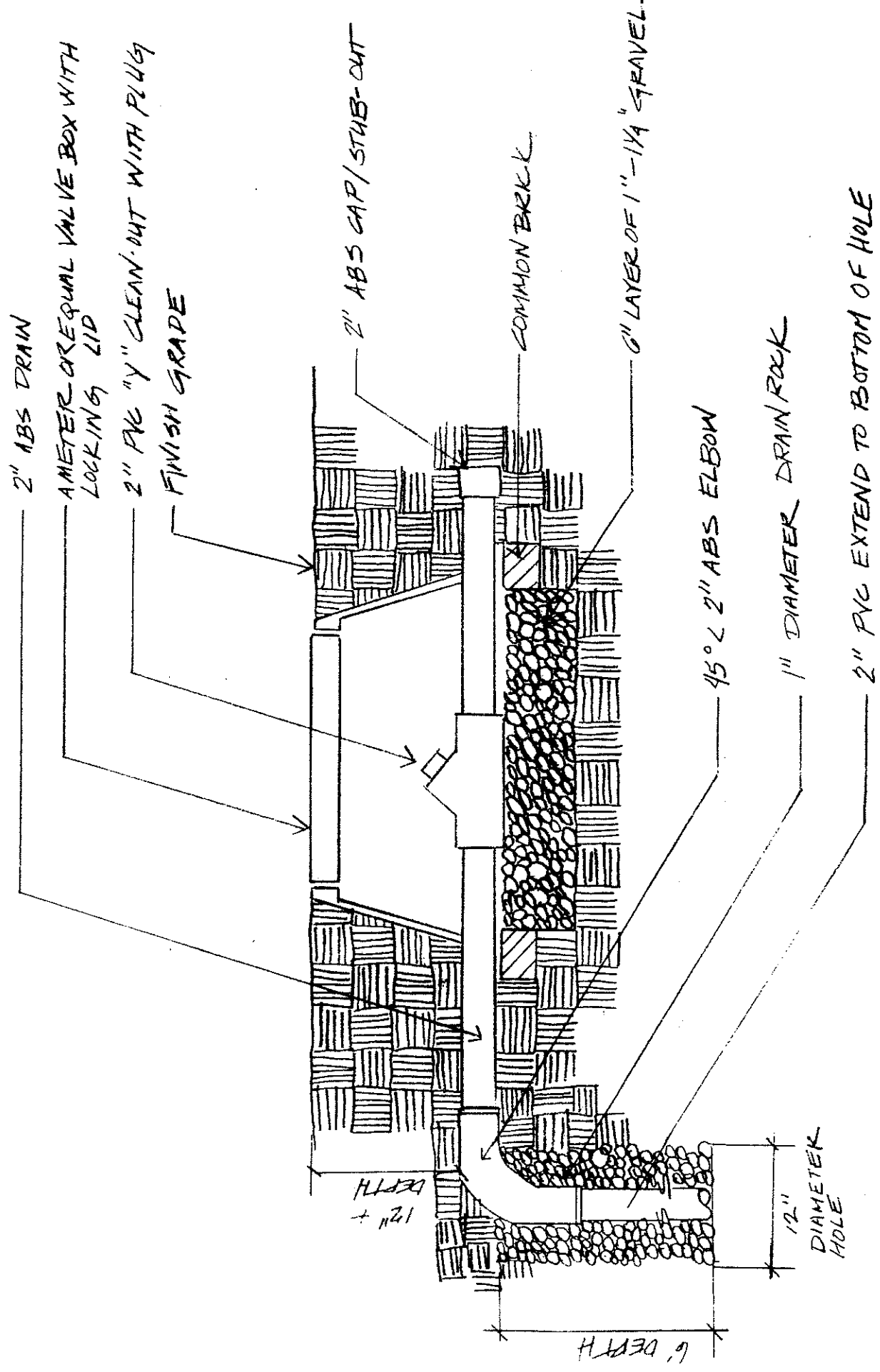
2x6x8' DUG FIR W/  
CARRIAGE BOLTS

2x4 REDWOOD BRACES



# 8 KIOSK

PARK PLANNING DIVISION

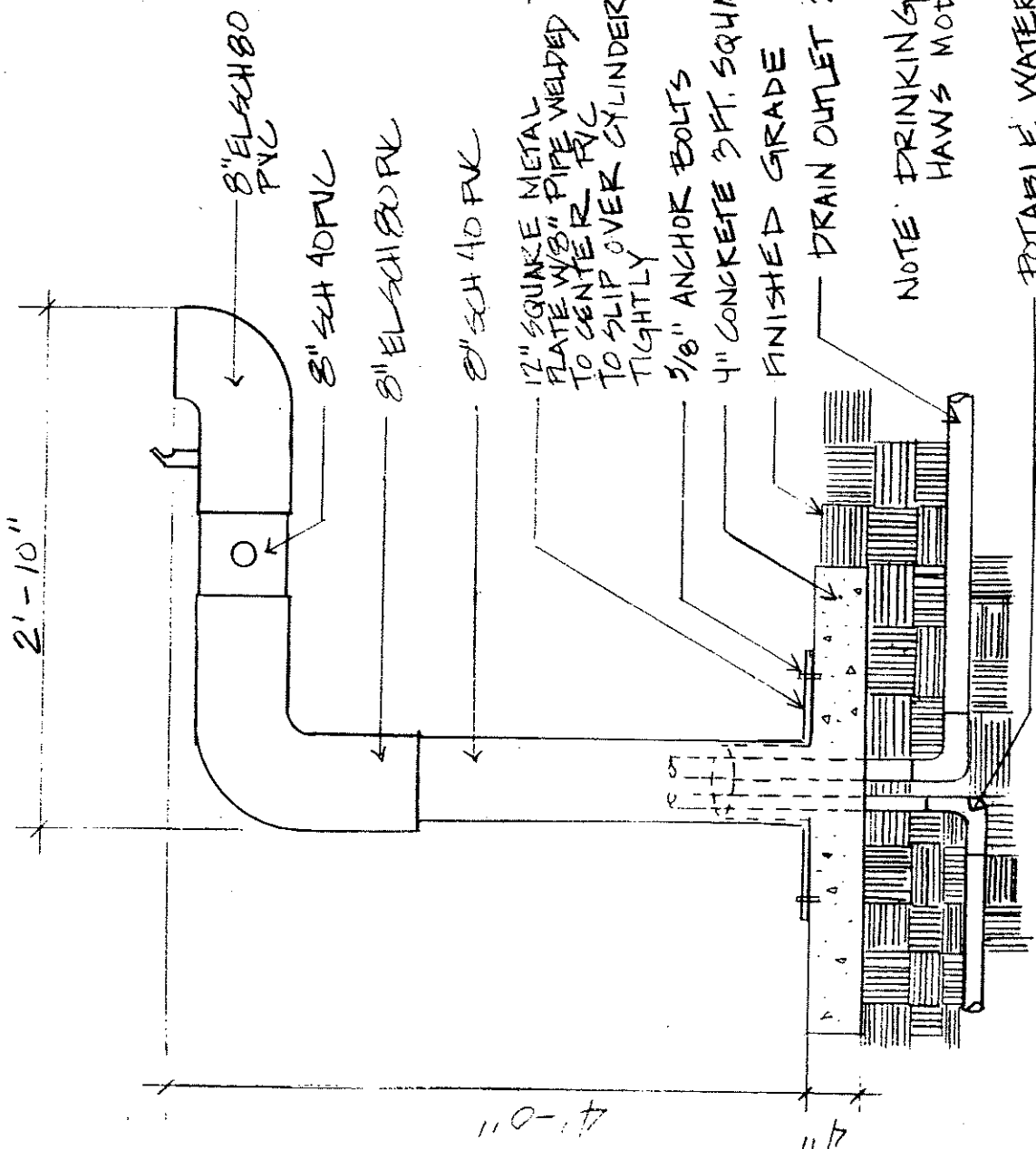
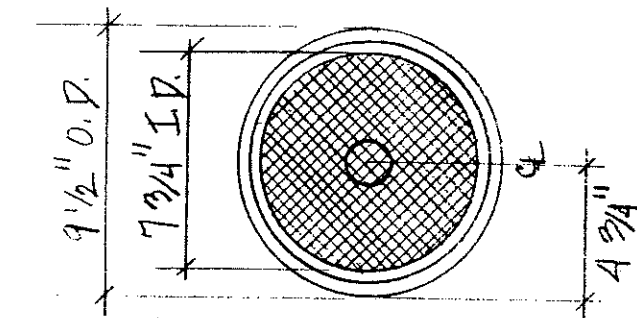


# 9 DRINKING FOUNTAIN DRAIN LINE / SUMP

PARK PLANNING DIVISION



DRAIN



# 10 BARRIER FREE DRINKING FOUNTAIN

PARK PLANNING DIVISION

PARKS AND RECREATION ADVISORY COMMISSION

COMMISSION RECOMMENDATION: ARBOR OAKS

The Parks and Recreation Advisory Commission has reviewed the request of the Arbor Oaks Drive residents to limit public access to the creek setback/open space at the rear of their properties. The Commission held two public hearings specifically reviewing this request.

The Commission has considered the options for privacy protection that are contained in this proposed Creekways Policy Plan, Section I.D. The Commission reviewed, in study session and with Arbor Oaks residents, each of these options as they might be applied to the area.

The Commission agreed to recommend to the Planning Department that residents be permitted to raise fences higher to eight feet. (See Option #1) Arbor Oaks residents believe this option would be inadequate and unworkable, because objects are thrown over current fences. Option #2, lowering setback grades, did not appear feasible because of existing mature vegetation. Current vegetation barriers (Option #3) is not providing the desired protection. Therefore, the Commission, reluctantly concluded that Option #4 is needed to be invoked in some form.

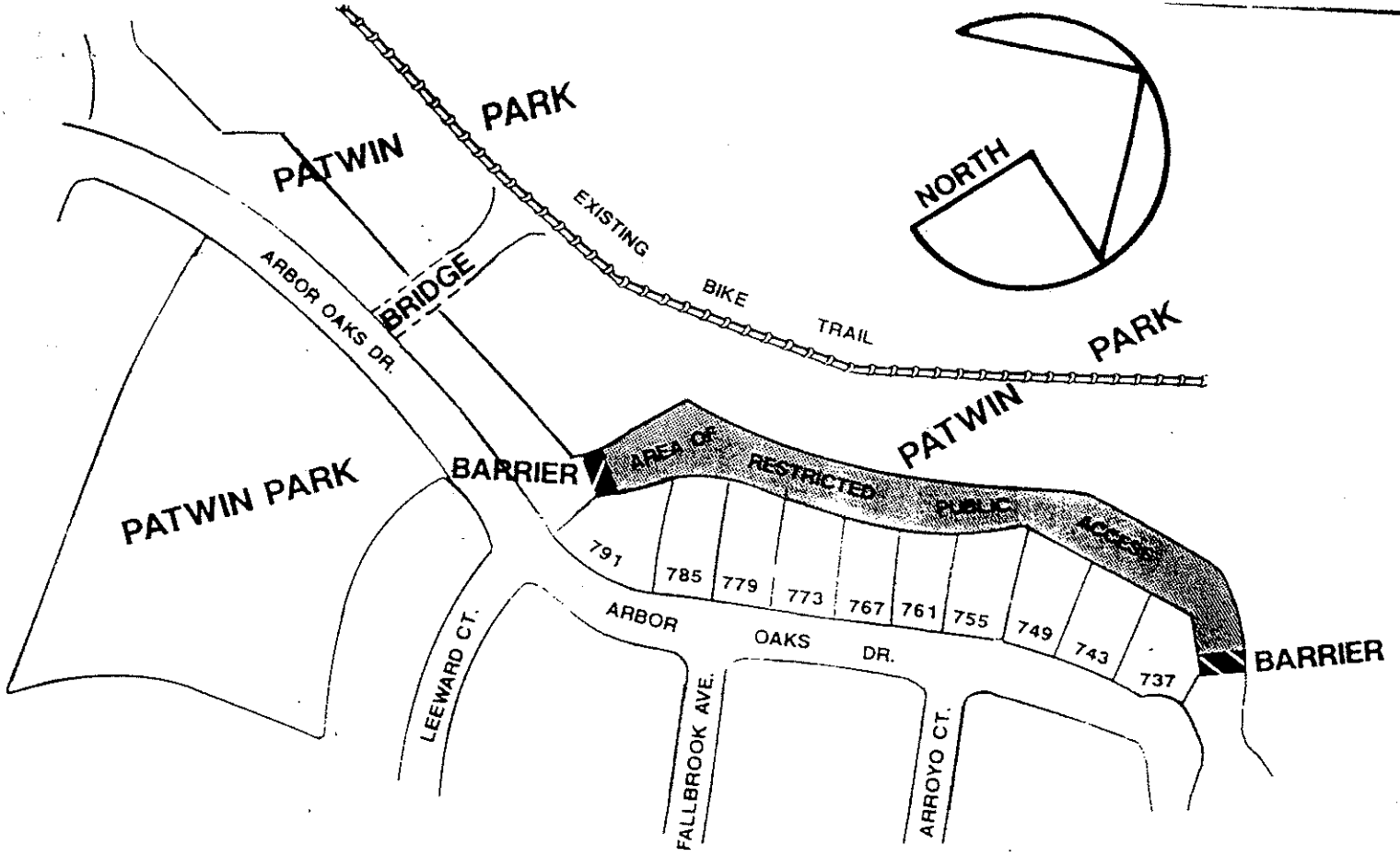
After much deliberation, however, the Commission hesitates to recommend permanent and complete exclusion of pedestrians from open space. There is much concern for the precedent such an action would set for other areas of the City, especially if an "Arbor Oaks" solution is the first problem addressed with the adoption of a new creekways policy. The Commission is concerned, for the residents claims that their privacy and safety are compromised and that law enforcement has been unable to address the problem.

In addressing the elevated path and it's frequent use by youths, the Commission suggests an inexpensive chain-link diversion fence at each end of the residential block. This fence is a suggestive barrier in that it only extends one-half way down the bank. Open space users could walk around the barrier or across the creek, and still gain access to the properties. The fence is intended to discourage, but not completely block access. The residents have agreed to this temporary measure in hopes that it will solve the problem with little expense and disruption to the area.

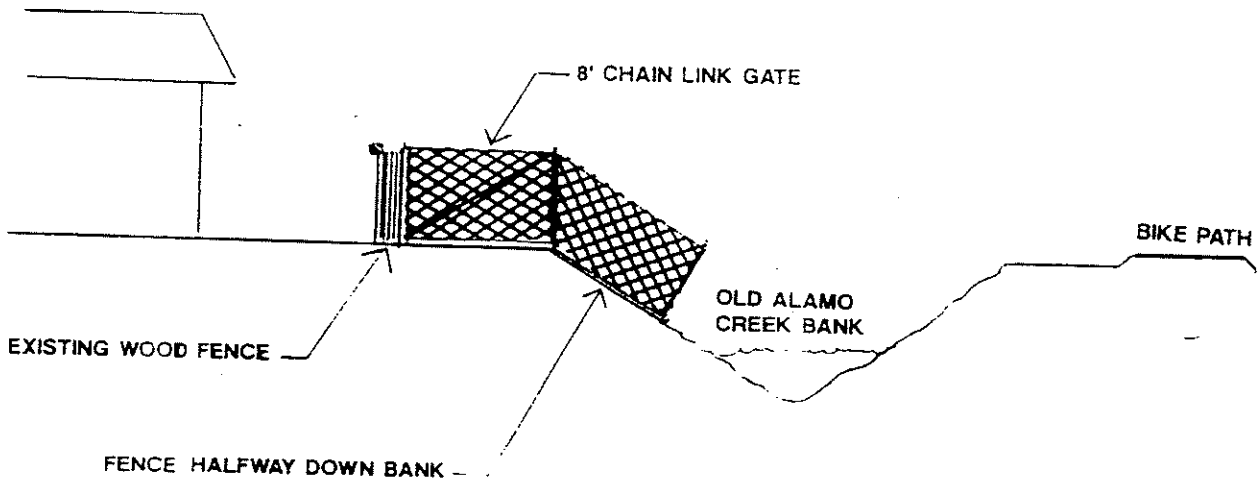
The Commission felt that if the fences were up by the end of May, their effectiveness could be monitored over the summer and a final decision on their existence be deferred until next Fall or Winter.

The Commission is reluctant to restrict any public access to any open space, but recognizes the uniqueness of this situation.

4/4/89

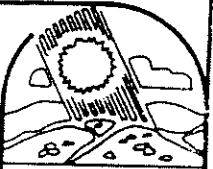


**ARBOR OAKS**



**PROPOSED ARBOR OAKS SOLUTION**

**ATTACHMENT #3  
PARK PLANNING DIVISION**



**VACAVILLE**

SCALE: NONE

APPROVED BY: \_\_\_\_\_

DATE: 6.29.89

CITY LANDSCAPE ARCHITECT

DRAWN BY: *CEH*

L.A.#2336

SHEET 1 OF 1

