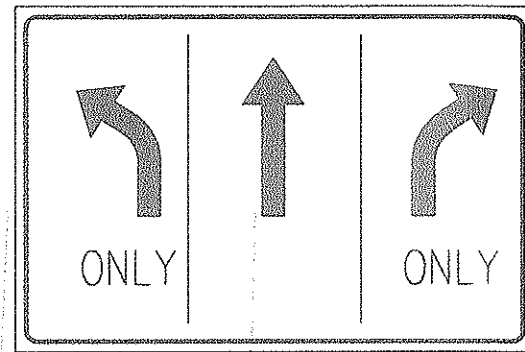


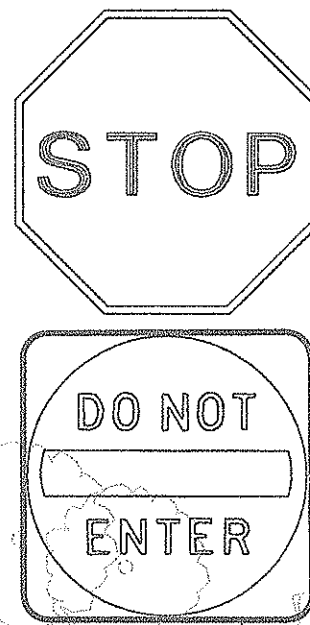
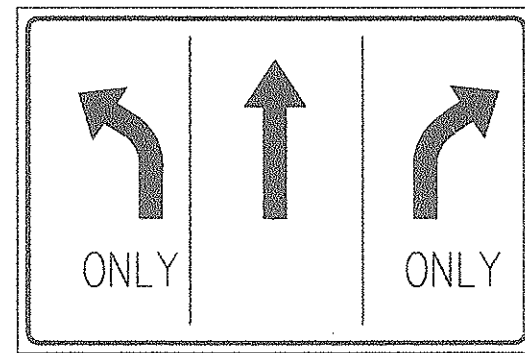
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-97	2000	107	110

TRUE NORTH  
SCALE: 1" = 20'

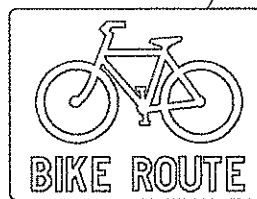
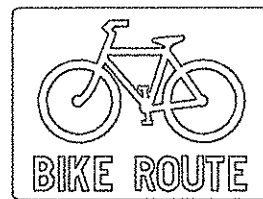
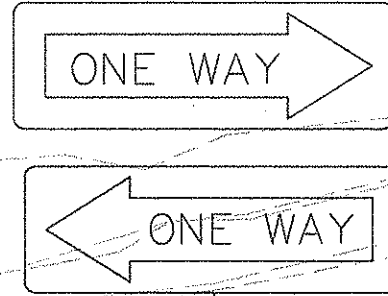


3' X 3' SQUARE TREE WELL  
WITH CONCRETE COVER.  
LINE ALL 4 SIDES OF  
PLANTING PIT WITH  
PLASTIC ROOT BARRIER  
(TYPICAL SYMBOL)

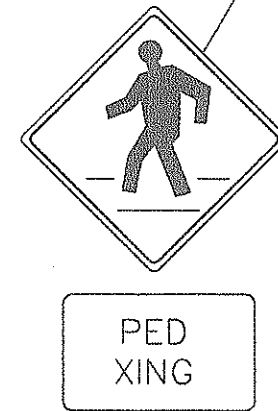
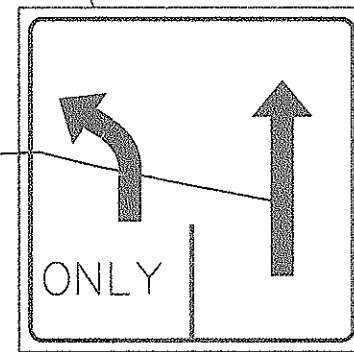
20 ALLSPICE TREE  
25 GAL.  
TYPICAL SYMBOL



**NOTICE  
PARK CLOSED  
TO PUBLIC  
10 PM to 5 AM**  
Unless Authorized By Permit  
Violators are subject to a fine,  
imprisonment or both  
Auth: RCH, As Amended  
Department of Parks & Recreation  
City & County of Honolulu



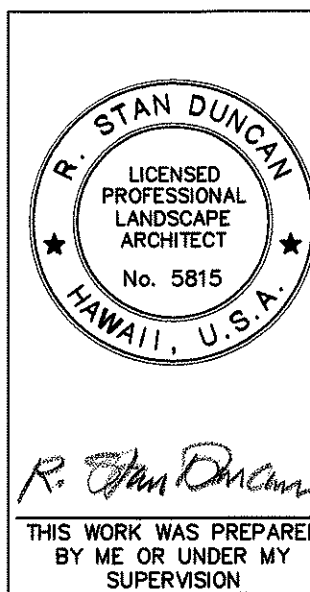
**SPEED  
LIMIT  
25**



APPROVED:

*Pat Segant* 4/27/2000  
Chief, Urban Design Branch (For Street Trees Only) Date  
Dept. of Planning & Permitting  
City & County of Honolulu

20' 0 20' 40'  
SCALE: 1" = 20'



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**STREET TREE PLANTING PLAN**  
**STA. 0+00 TO STA. 6+50**  
KEAAHALA ROAD WIDENING  
KAHEKILI HIGHWAY TO PO'OKELA STREET  
State Project No. HWY-0-03-97

Scale: As shown Date: April 2000  
SHEET NO. L-1 OF L-4 SHEETS

PLAN - KEAAHALA ROAD (CITY)  
SCALE: 1" = 20'

WINDWARD COMMUNITY COLLEGE  
HAWAII STATE HOSPITAL  
WINDWARD HEALTH CENTER

KAHEKILI HIGHWAY  
(STATE)

PM: STY CTB: STATE20  
OPER: SA,CKY,RCQ,\*MNN,MSM 146  
FILE: DOT95111  
SCALE: 1"=20  
REVISED: 01/04/00

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

KEAAHALA ROAD WIDENING; KANEHOE, O'AHU; TMK: 4-5-23:2,9,10 AND 15

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-97	2000	108	110

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTEBOOK	DRAWN BY	
No.	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

FILE: DOT95111  
SCALE: 1"=20'  
BEC: 5/3/97

PM: STY  
OPER: SAI,CKY,RGQ,\*MNN,MSM 146'  
REVISED: 01/04/00

CTB: STATE20

MATCH-LINE STA. 6+50

NOTICE  
PARK CLOSED  
TO PUBLIC  
10 PM to 5 AM  
Unless Authorized By Permit  
Violators are subject to a fine,  
imprisonment or both  
Auth: ROH, As Amended  
Department of Parks & Recreation  
City & County of Honolulu

ONE WAY  
ONE WAY

3' X 3' SQUARE TREE WELL  
WITH CONCRETE COVER.  
LINE ALL 4 SIDES OF  
PLANTING PIT WITH  
PLASTIC ROOT BARRIER  
(TYPICAL SYMBOL)

7 ALLSPICE TREE  
25 GAL.  
TYPICAL SYMBOL

WINDWARD  
COMMUNITY  
COLLEGE  
HAWAII  
STATE  
HOSPITAL

NO PARKING  
ANY TIME

ONLY

SPEED  
LIMIT  
25

SPEED  
LIMIT  
25

NO PARKING  
ANY TIME

STOP

TRUE NORTH  
SCALE: 1" = 20'

PO'OKELA  
STREET  
(STATE)

PLAN - KEAAHALA ROAD (CITY)  
SCALE: 1" = 20'

BIKE ROUTE

NO PARKING  
ANY TIME

TheBus  
NO STOPPING

TheBus  
NO STOPPING

ONLY

NO PARKING  
ANY TIME

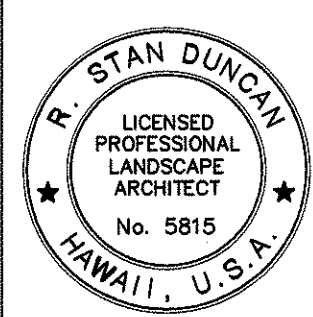
BIKE ROUTE

6 PINK TECOMA  
25 GAL.  
TYPICAL SYMBOL

APPROVED:

*Pat Segant* 4/21/2000  
Chief, Urban Design Branch (For Street Trees Only)  
Dept. of Planning & Permitting  
City & County of Honolulu

20' 0 20' 40'  
SCALE: 1" = 20'



R. Stan Dunch  
THIS WORK WAS PREPARED  
BY ME OR UNDER MY  
SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STREET TREE PLANTING PLAN**  
**STA. 6+50 TO STA. END**

KEAAHALA ROAD WIDENING  
KAHEKILI HIGHWAY TO PO'OKELA STREET  
State Project No. HWY-0-03-97

Scale: As shown Date: April 2000

SHEET NO. L-2 OF L-4 SHEETS

KEAAHALA ROAD WIDENING; KANEHOE, O'AHU; TMK: 4-5-23:2,9,10 AND 15



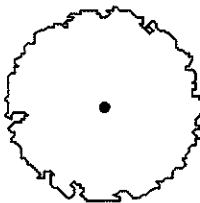
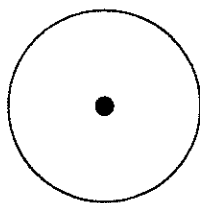
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTEBOOK	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	
No.		

FILE: DOT95111  
SCALE: 1"=20'  
BEG: 5/3/97

PM: STY  
OPER: SAI,CKY,RGQ,\*MNN,MSM  
REVISED: 01/04/00

CTB: STATE20  
146'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-97	2000	109	110

S T R E E T   T R E E   P L A N T   L I S T						
S Y M B O L	Q T Y.	C O M M O N   N A M E	B O T A N I C A L   N A M E	SIZE	HEIGHT	REMARK
		T R E E S				
	27	Allspice	Pimenta dioica	25 gal.	7' Min.	1 1/2"—2" cal.
	325 l.f.	Plastic Root Barrier	Deep Root UB 36—2, or approved equal			
	6	Pink Tecoma	Tabebuia pentaphylla	25 gal.	7' Min.	1 1/2"—2" cal.
	75 l.f.	Plastic Root Barrier	Deep Root UB 36—2, or approved equal			
	300 s.f.	Soil Amendment, 1" Layer				
	35 c.y.	Screened Topsoil, 36" Depth				

STREET TREE NOTES

- The contractor shall notify the Beautification Administrator, Department of Parks and Recreation (DPR), phone 971-7151 at least seven (7) days prior to pre-maintenance and final inspections. Contractor shall submit two sets of plans to DPR for pre-maintenance and final inspections.
- Maintenance of street trees shall be for nine (9) months or until project maintenance has been assumed by abutting property owner.
- The Standard City and County of Honolulu, Department of Planning and Permitting Specifications for street tree planting and landscaping shall be made part of the construction documents.
- Street Tree plans that have been revised or haven't started construction within two (2) years of the date of the Urban Design Branch Chief's approval will be subject to re-approval.
- When substitution of tree types are requested by the developer or contractor due to unavailability, the plans shall be revised after notification of tree selection and the plans submitted for re-approval.
- Final "As-Built" tracings reflecting all actual conditions will be prepared by the City and filed with the Department of Planning and Permitting. The Contractor along with the Engineer / Inspector shall note all changes and deviations on a set of plans immediately following notice of Acceptance (Project Completion Notice) of the street tree planting to facilitate the transfer of information onto the tracings. (Attention: Chief, Urban Design Branch).
- Approval is for Street Tree planting within the road right-of-way only. It is not an approval of the planting and irrigation plan outside of the road right-of-way.
- The Community Association, homeowner or lot owner is responsible to pay for water and electricity and provide maintenance for the street trees within the road right-of-ways abutting their properties.

PLANT NOTES:

- Landscape Contractor shall field verify all plant quantities and dimensions prior to installation. Quantities shown in Plant List are for convenience only. Plans shall govern.
- Landscape Contractor shall be responsible for locating and protecting all existing utilities.
- Notify and meet with the Engineer prior to plant installation for verification/interpretation of plans.
- Notify Engineer of any discrepancies in plant locations or insufficient plant quantities due to differences in plan and actual field conditions.
- Notify Engineer 30 days prior to planting operations for approval of all plant material at place of growth. All plant material not approved by the Engineer will be subject to rejection.
- The Landscape Contractor shall stake out tree locations prior to installation for approval by the Engineer. Notify Engineer (5) working days in advance.
- Landscape Contractor shall provide temporary irrigation for street trees during establishment and maintenance period. If above grade temporary irrigation is used, the Landscape Contractor shall remove the temporary irrigation system at the end of the maintenance period.

STAN DUNCAN

LICENSED PROFESSIONAL LANDSCAPE ARCHITECT

No. 5815

HAWAII, U.S.A.

R. Stan Duncan

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

STREET TREE PLANT LIST AND NOTES

KEAAHALA ROAD WIDENING

KAHEKILI HIGHWAY TO PO'OKELA STREET

State Project No. HWY-0-03-97

Scale: As shown

Date: April 2000

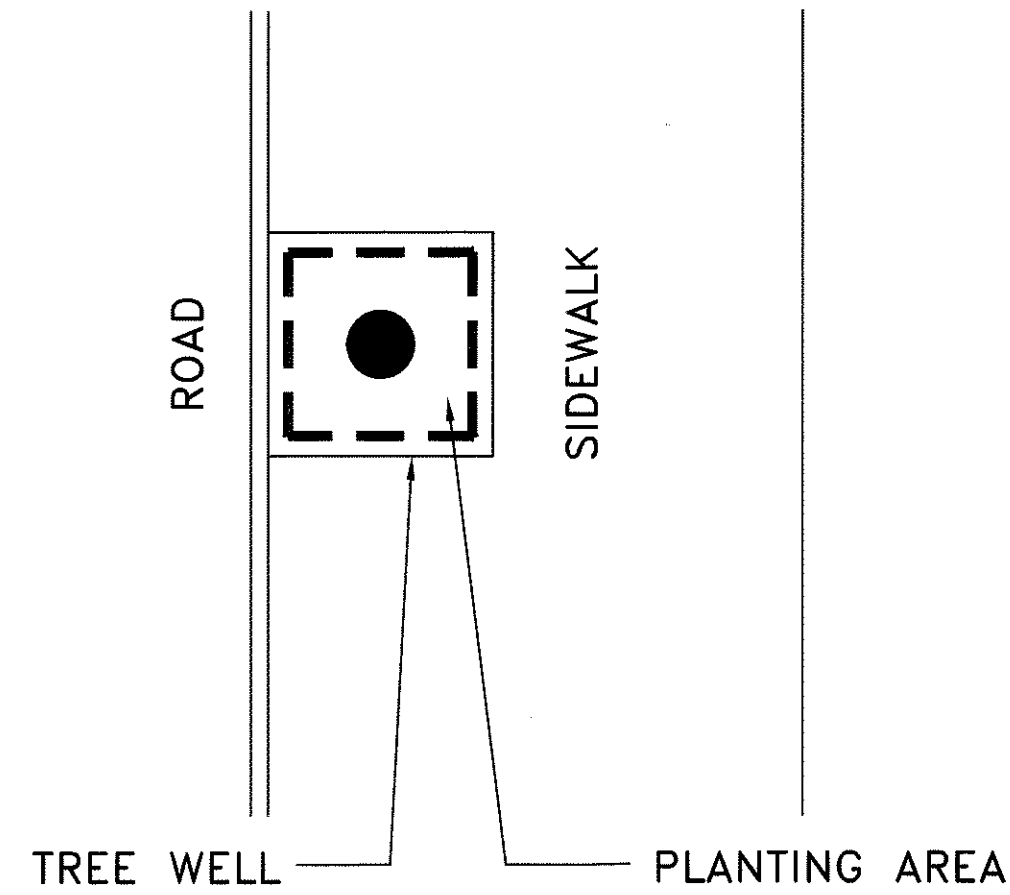
SHEET NO. L-3 OF L-4 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTEBOOK	
No.	

FILE: DOT95111  
SCALE: 1"=20'  
BEG: 5/3/97

PM: STY  
OPER: SAI,CKY,RCQ,\*MNN,MSM  
CTB: STATE20  
146'  
REVISED: 01/04/00

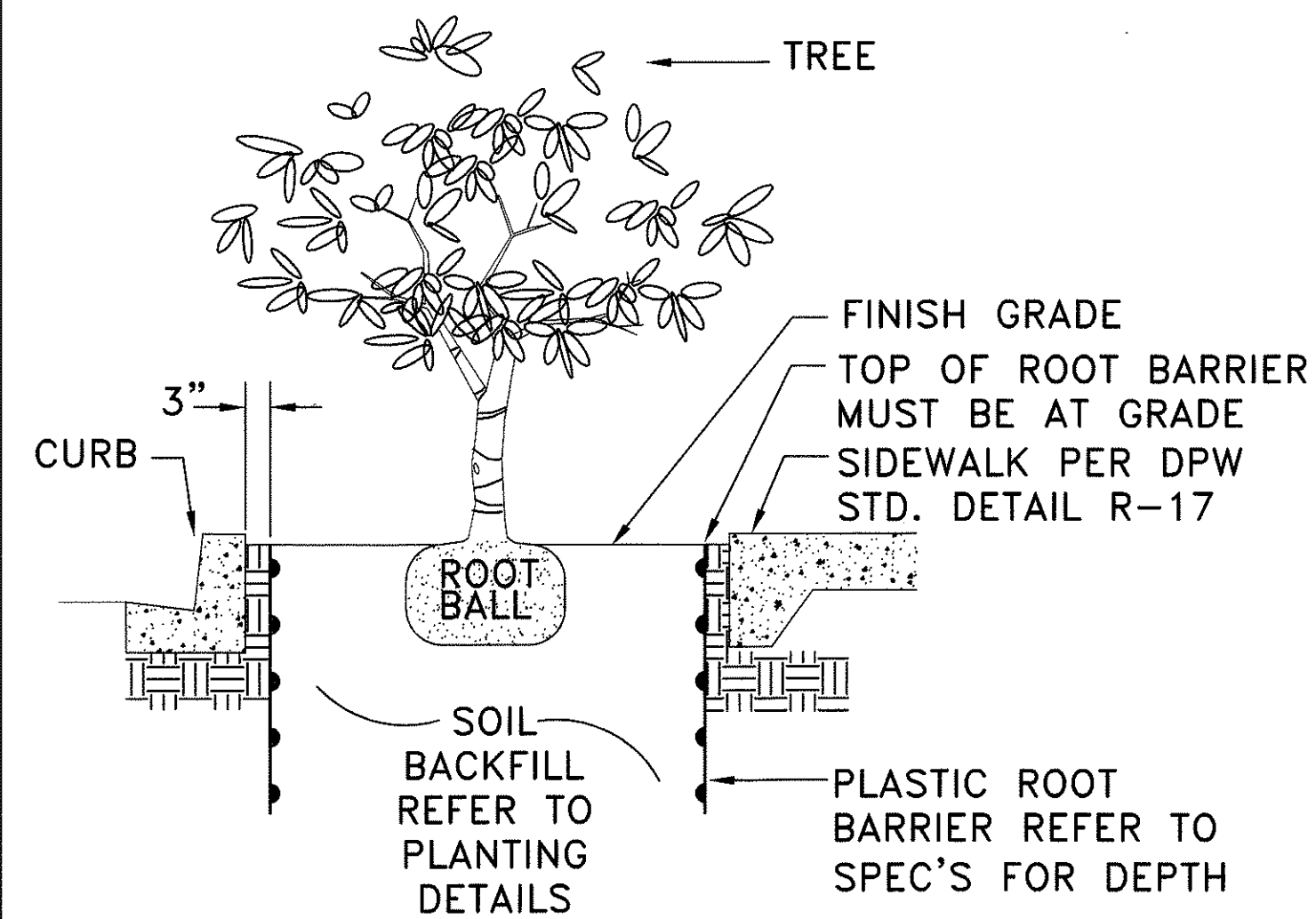
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-97	2000	110	110



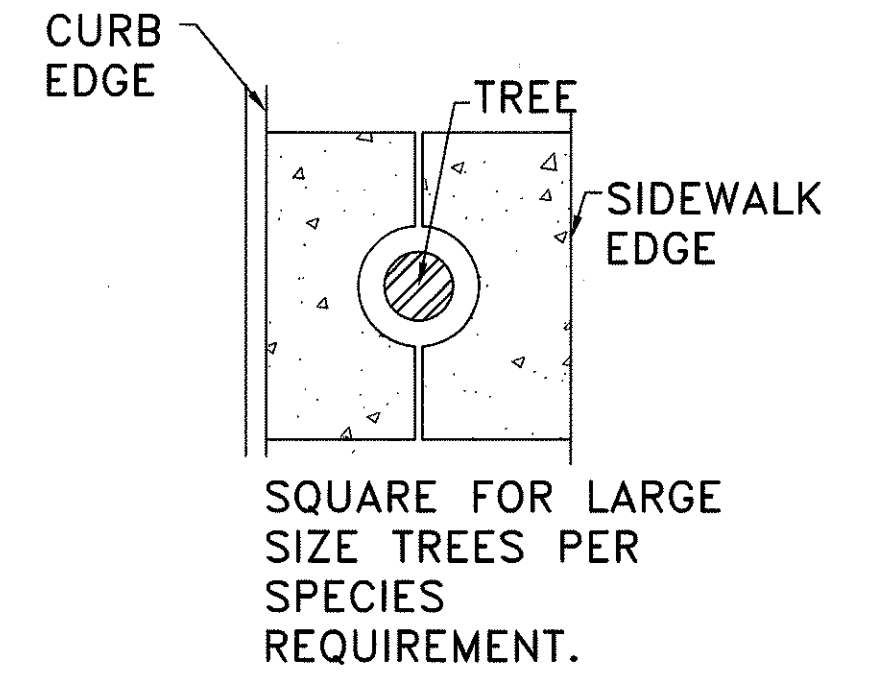
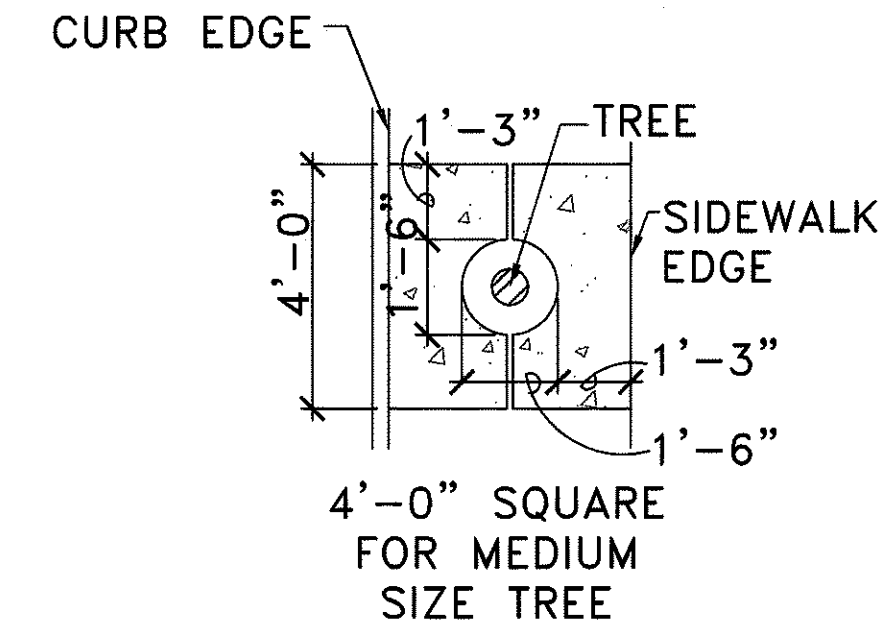
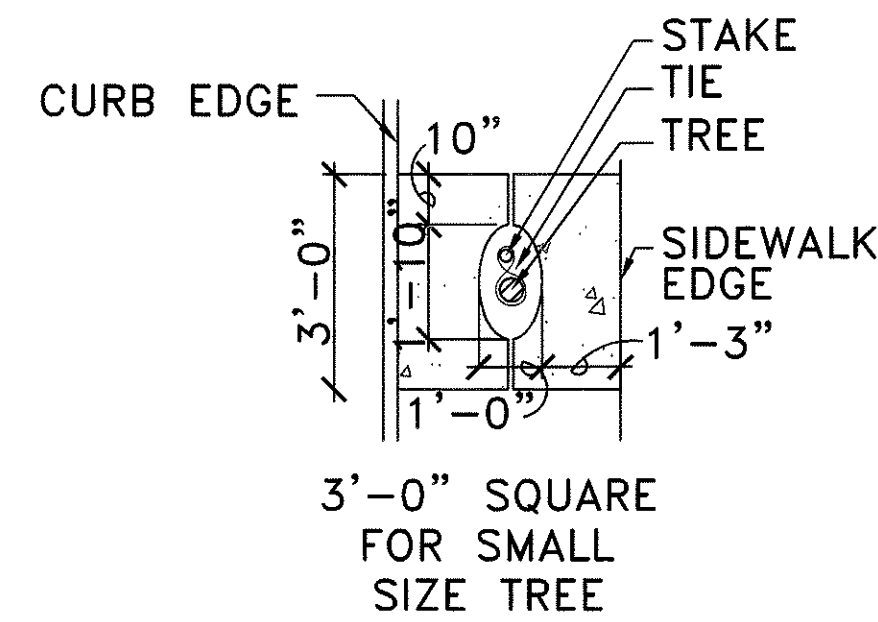
#### LEGEND

- TREE TRUNK      - - - - - PLASTIC ROOT BARRIER ON ALL SIDES OF PLANTING PIT

**1 ROOT CONTROL BARRIER PLAN**  
NOT TO SCALE      CADD REF: P-101D



**2 ROOT BARRIER DETAIL**  
NOT TO SCALE      CADD REF: P-108C



2" DIA. X 8' LONG LODGE POLE STAKE, HAMMERED INTO SUBGRADE, AVOID ROOTBALL. DO NOT ALLOW TREE TO RUB AGAINST STAKE. PROVIDE ADDITIONAL STAKES AS REQUIRED.

POROUS CONCRETE TREEWELL COVER, 3" THICK, 2200 lbs. psi., POPCORN TEXTURE WATER FLUSHED BEFORE DRYING FOR POROSITY, CASTED OFF-SITE.

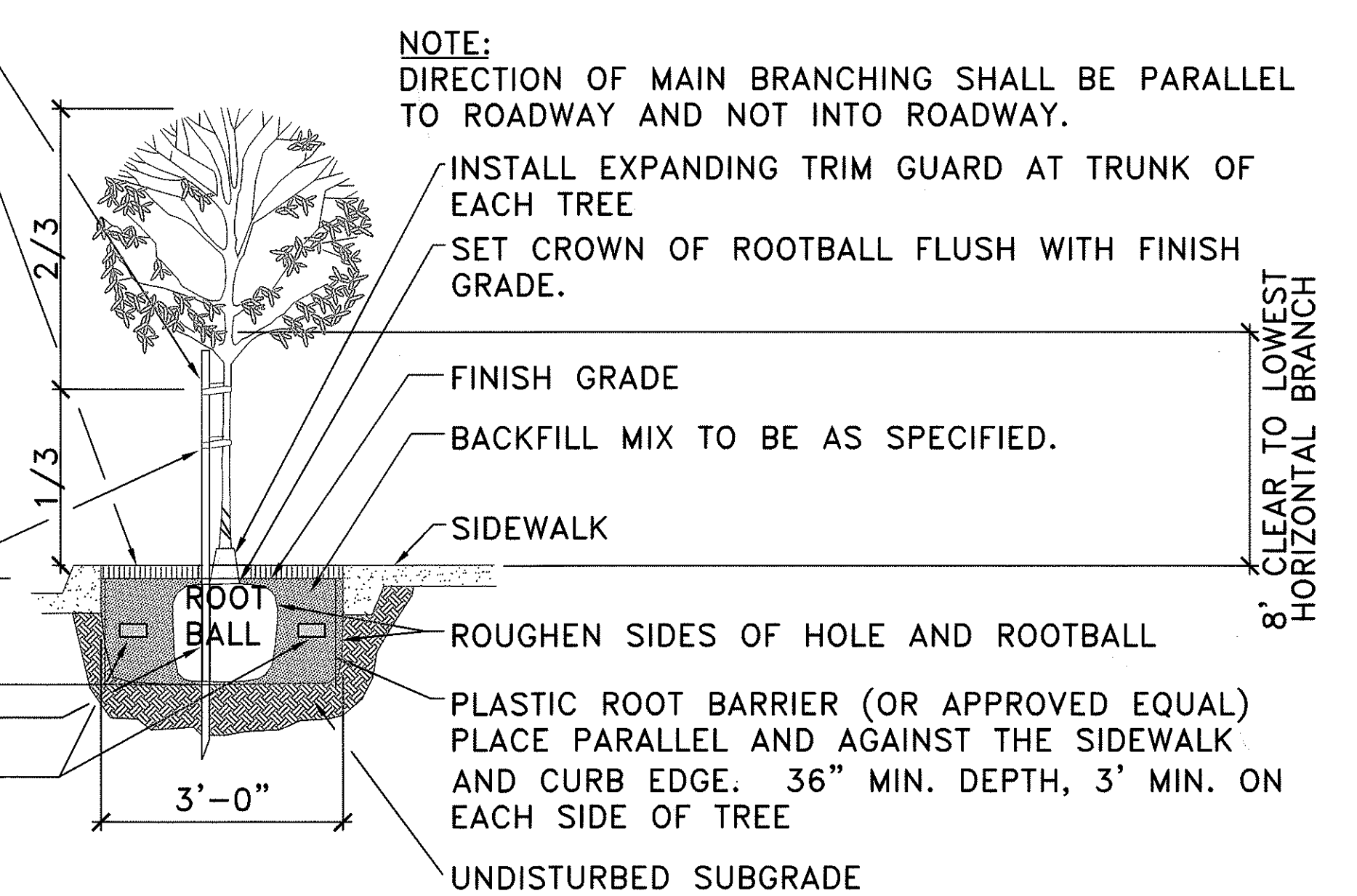
LET TOP OF TREE SWAY - SECURE BOTTOM OF TREE WITH FLEXIBLE VINYL TREE TIE WRAPPED AROUND TRUNK AND STAKE IN FIGURE EIGHT, SECURED WITH ONE GALV. NAIL THROUGH TIE AND STAKE. MINIMUM TWO TIES AS REQUIRED TO HOLD BOTTOM OF TREE STRAIGHT AND SECURE.

PLANT PIT DUG TO THE DEPTH OF THE ROOTBALL.

DO NOT STAKE THROUGH ROOTBALL

"AGRIFORM" TABLETS (10) SPREAD EVENLY AROUND ROOTBALL AT MID DEPTH. KEEP AWAY FROM ROOTBALL.

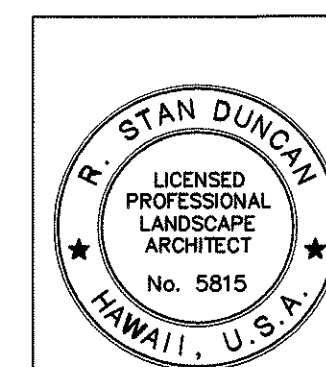
#### PLAN VIEW POROUS TREE WELL COVERS



**NOTE:**  
DIRECTION OF MAIN BRANCHING SHALL BE PARALLEL TO ROADWAY AND NOT INTO ROADWAY.

INSTALL EXPANDING TRIM GUARD AT TRUNK OF EACH TREE  
SET CROWN OF ROOTBALL FLUSH WITH FINISH GRADE.

**3 STREET TREE PLANTING DETAIL (WITH COVER)**  
NOT TO SCALE      CADD REF: P-100F



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BY ME OR UNDER MY  
SUPERVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

#### STREET TREE DETAILS

KEAAHALA ROAD WIDENING  
KAHEKILI HIGHWAY TO PO'OKELA STREET  
State Project No. HWY-0-03-97

Scale: As shown      Date: April 2000

SHEET NO. L-4 OF L-4 SHEETS