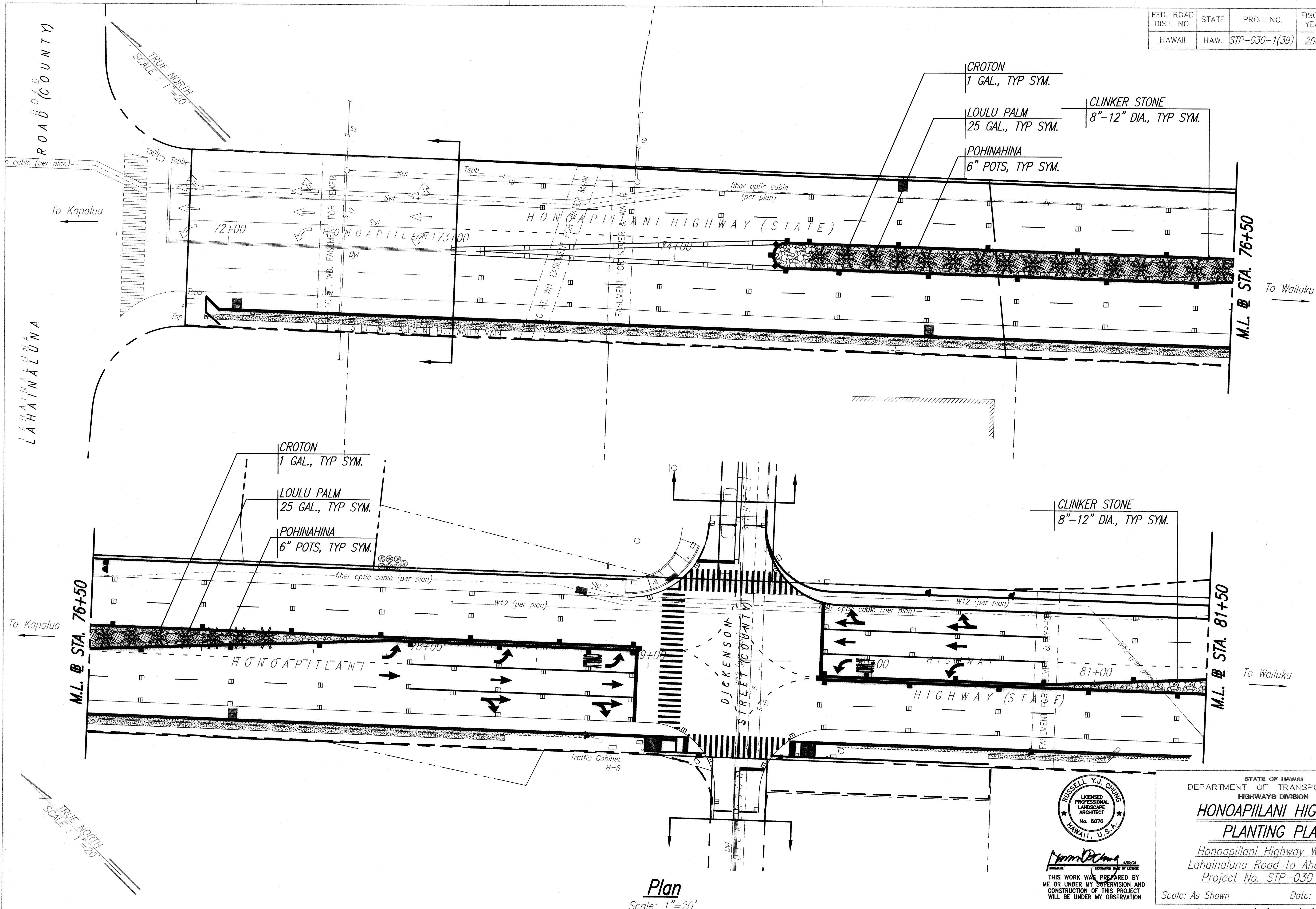


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	185	195
				184	194

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
	NO.	

DATE: 07-14-2008 @ 11:07 am
LAST UPDATE: 02-14-2008 @ 11:02 am
PROJECT: P:\PROJECTS\HAWAII\Honoapiilani Hwy Expansion\01\planting_plans.dwg

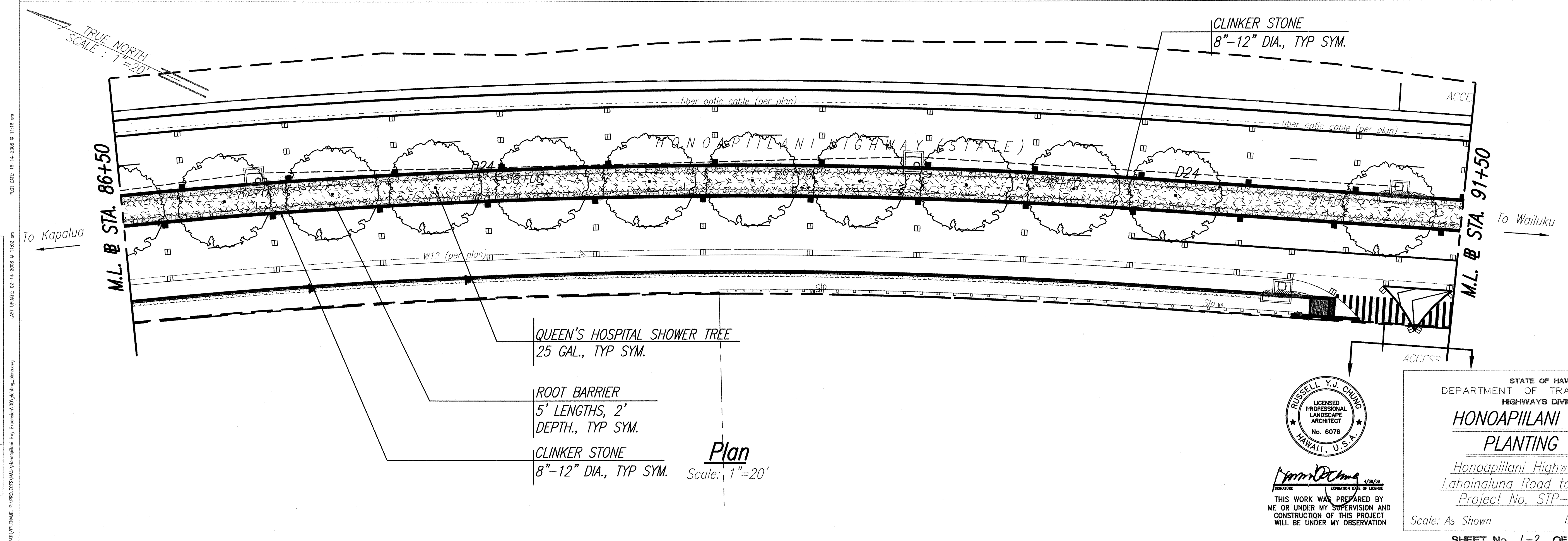
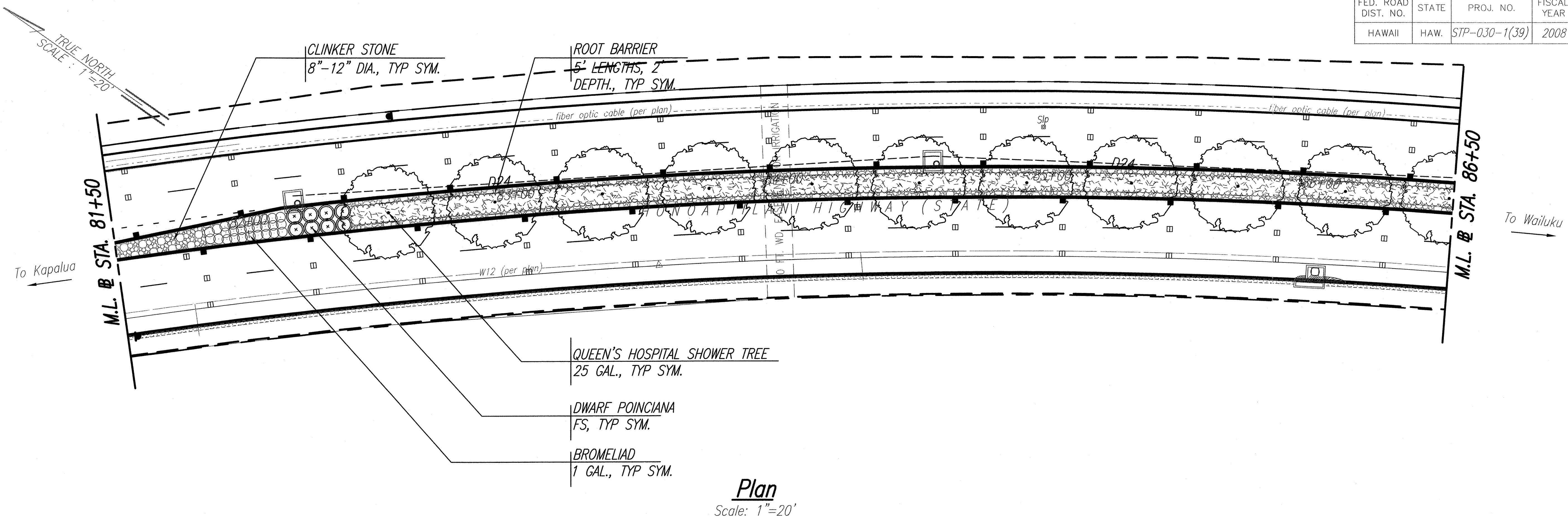


Plan
Scale: 1"=20'

RUSSELL Y.J. CHUNG
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 6076
HAWAII, U.S.A.
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October 2008
June 2007

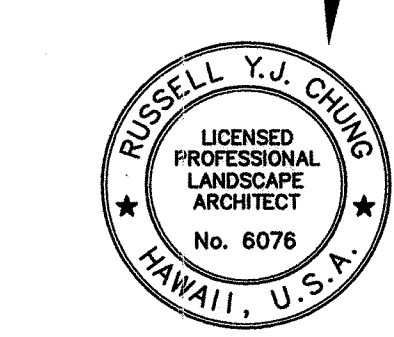
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HONOAPIILANI HIGHWAY
PLANTING PLAN**
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)
Scale: As Shown Date: October 2008
SHEET No. L-1 OF L-11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	186 185	195 194



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
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DATE: 10-14-2008 @ 11:16 am
LAST UPDATE: 10-14-2008 @ 11:02 am
PROJECT: HAWAIIAN ISLANDS HIGHWAY DIVISION



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SIGNATURE: *Russell Y.J. Chung*
EXPIRATION DATE OF LICENSE: 12/31/08

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

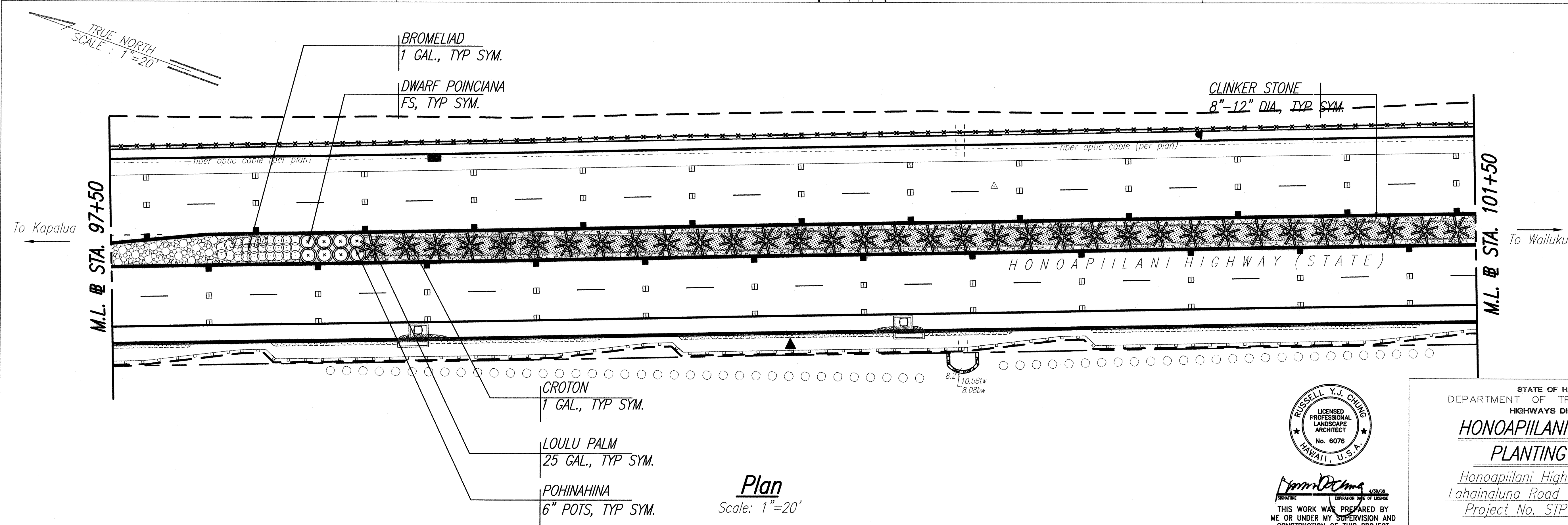
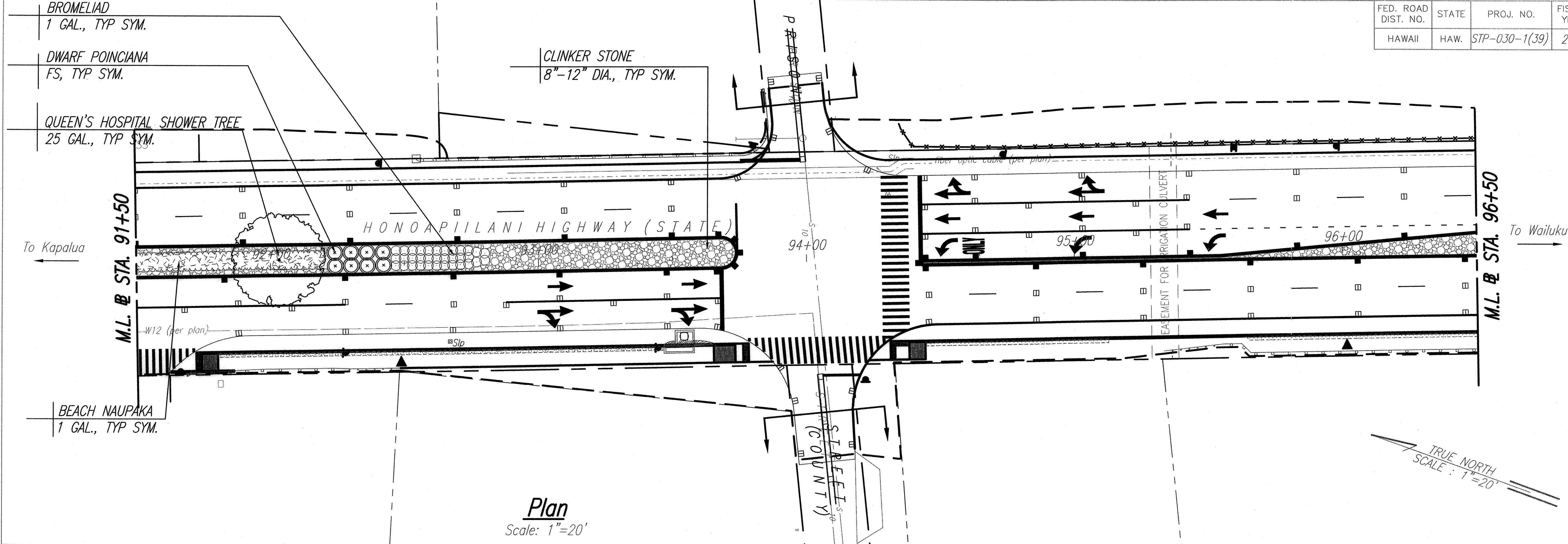
**HONOAPIILANI HIGHWAY
PLANTING PLAN**

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

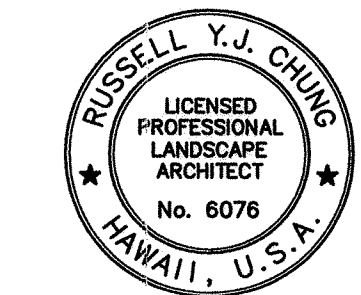
Scale: As Shown Date: *October 2008*

SHEET No. L-2 OF L-11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	187 186	195 194



ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY	CHECKED BY	



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Signature: *Russell Y.J. Ching* Date: *October 2008*

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

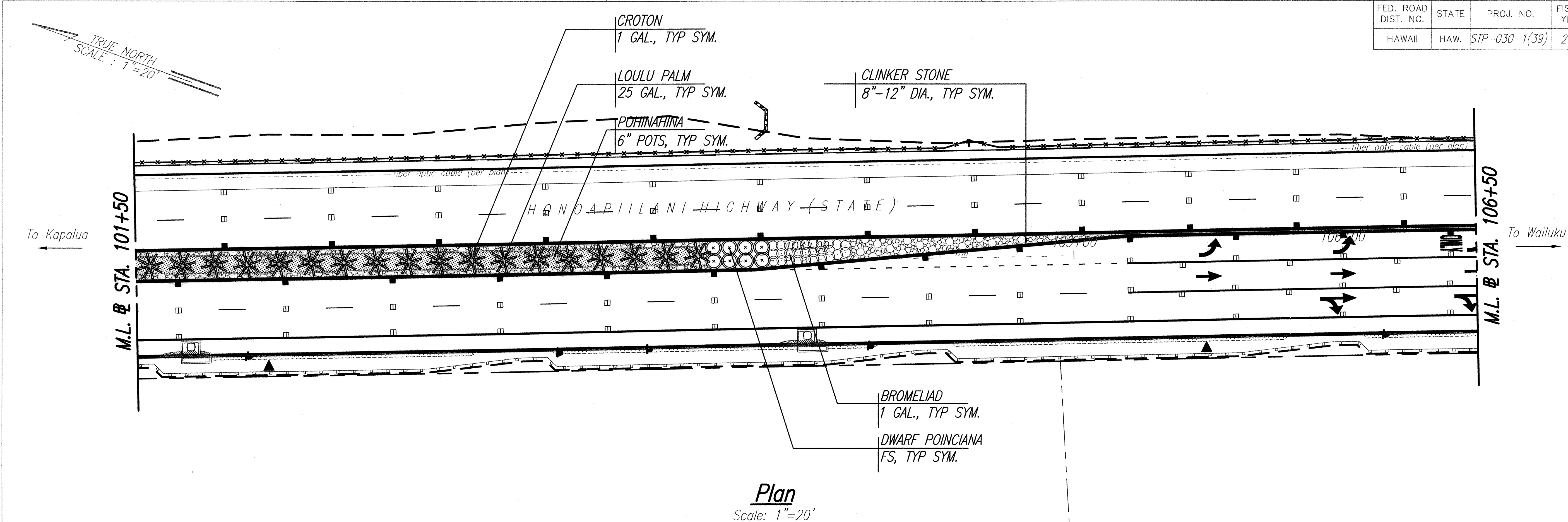
**HONOAPIILANI HIGHWAY
PLANTING PLAN**

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

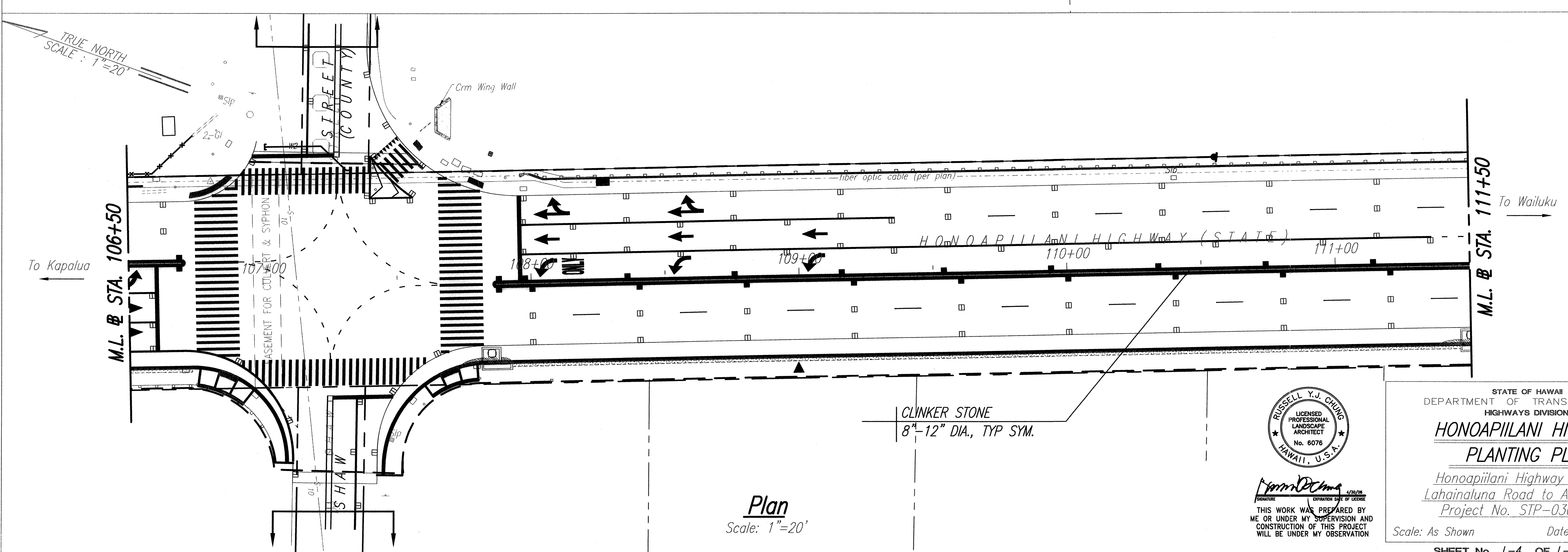
Scale: As Shown Date: *October 2008*

SHEET No. L-3 OF L-11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	188 187	195 194



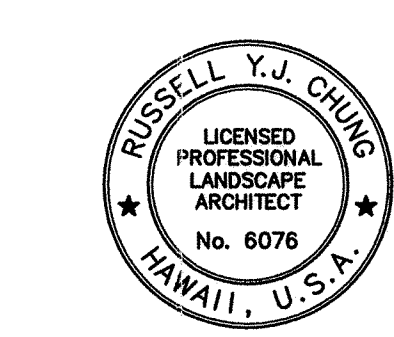
Plan
Scale: 1"=20'



Plan
Scale: 1"=20'

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
QUANTITIES BY	DESIGNED BY	
CHECKED BY		

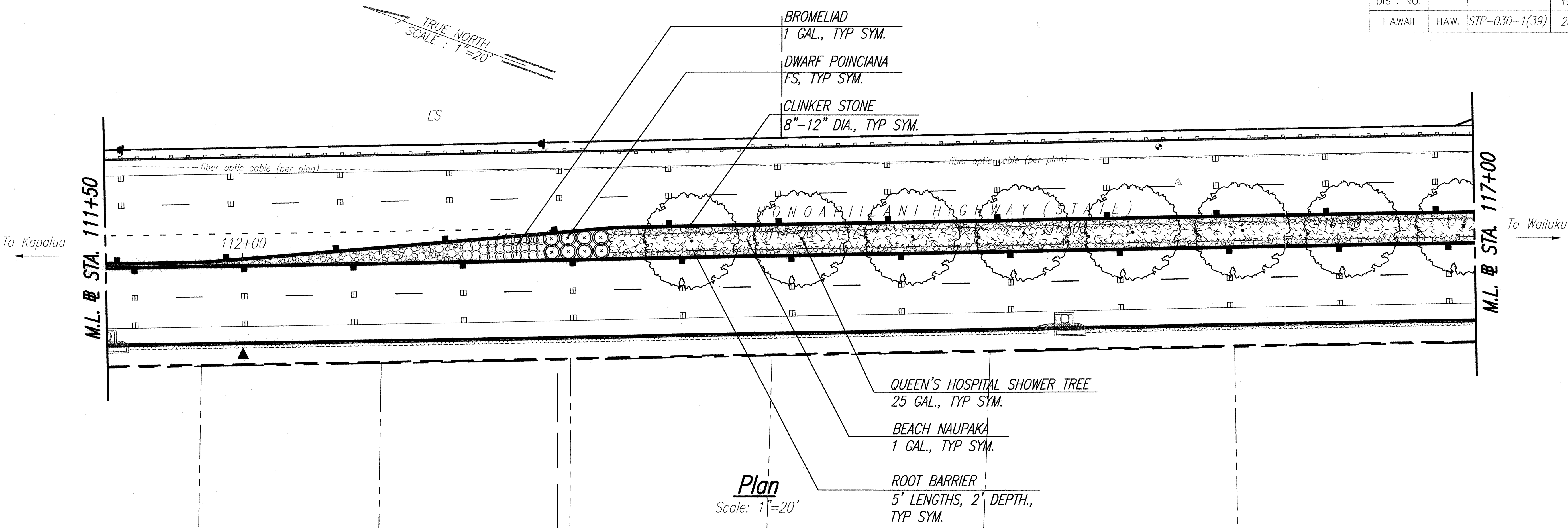
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LAST PLOT: 02-14-2008 @ 11:02 am
PLOT DATE: 12-14-2008 @ 11:17 am



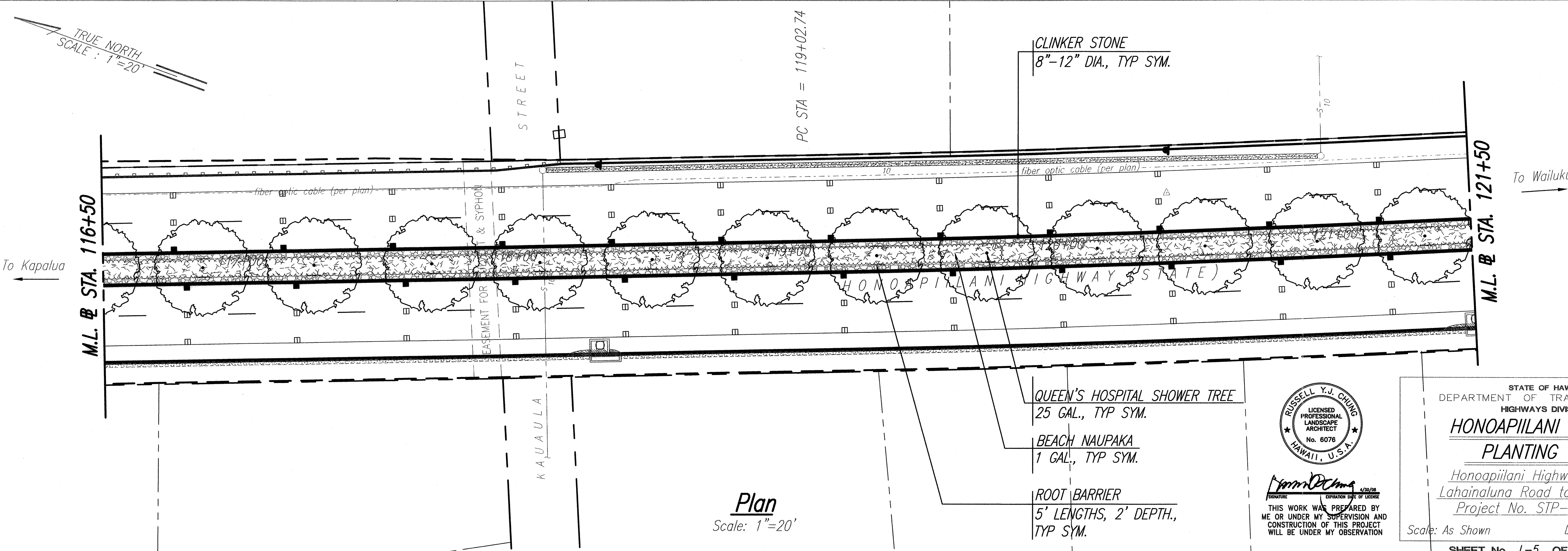
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION
Date: October 2008

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HONOAPIILANI HIGHWAY
PLANTING PLAN**
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)
Scale: As Shown
Date: October 2008

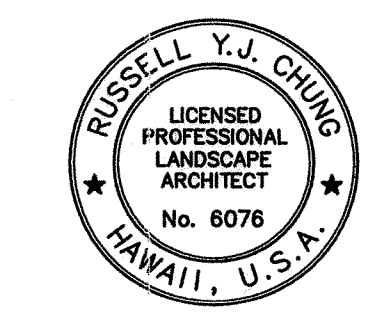
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	189	195
				188	194



Plan
Scale: 1"=20'



Plan
Scale: 1"=20'



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**HONOAPIILANI HIGHWAY
PLANTING PLAN**

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

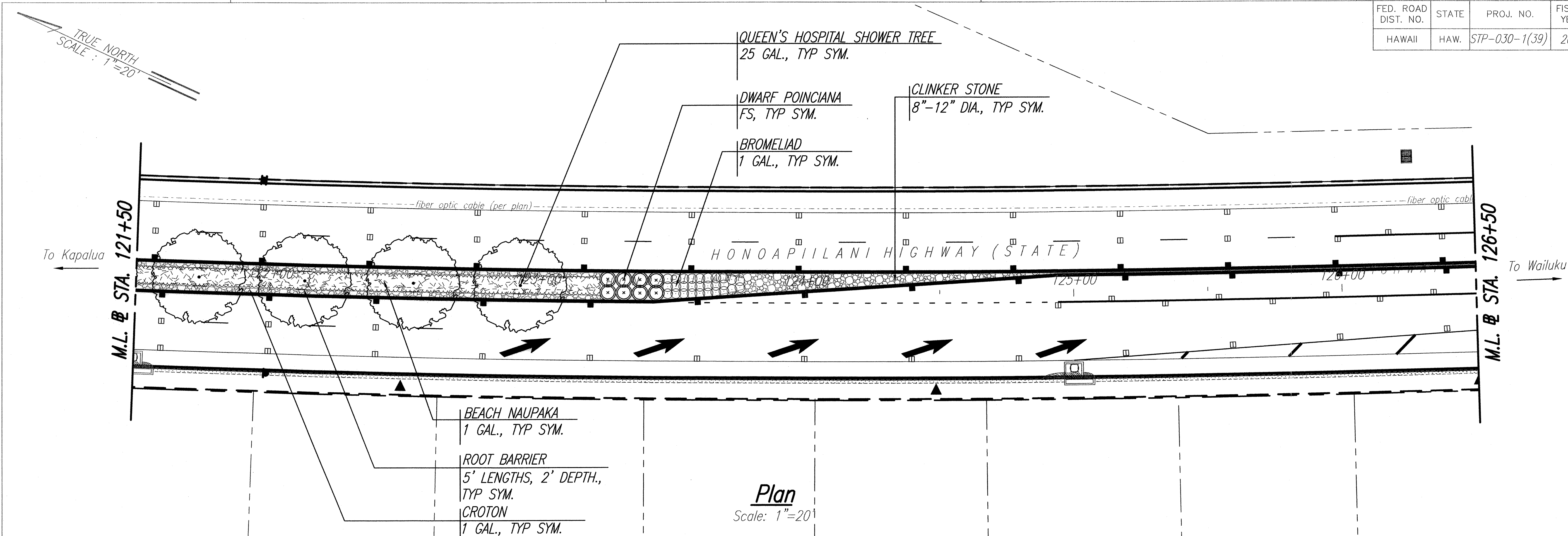
Scale: As Shown Date: *October 2008*
June 2007

SHEET No. L-5 OF L-11 SHEETS

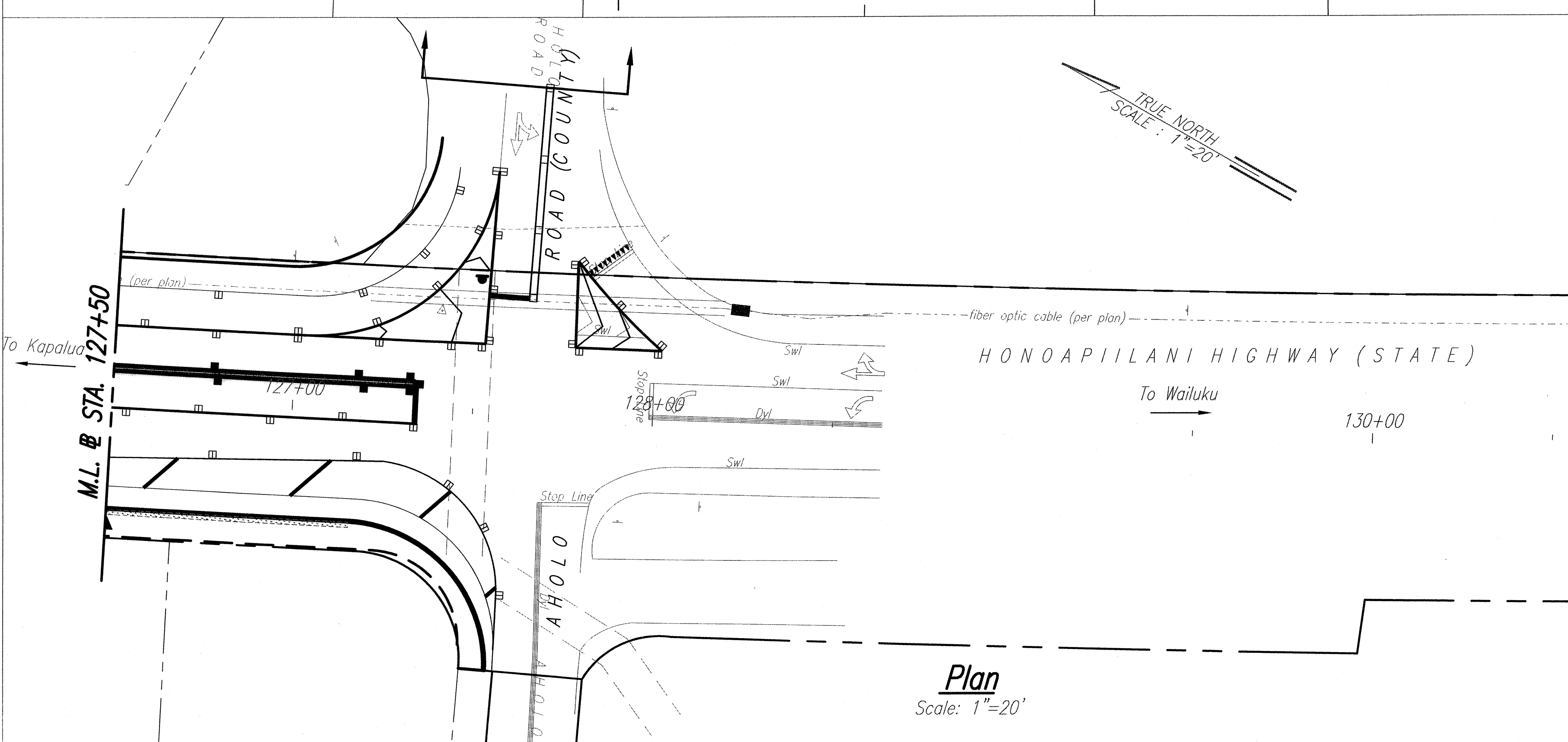
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	
	QUANTITIES BY	

NOTES: 1. ALL PLANTING SHALL BE IN ACCORDANCE WITH THE HAWAIIAN PLANTING MANUAL, 2007 EDITION. 2. ALL PLANTING SHALL BE IN ACCORDANCE WITH THE HAWAIIAN PLANTING MANUAL, 2007 EDITION. 3. ALL PLANTING SHALL BE IN ACCORDANCE WITH THE HAWAIIAN PLANTING MANUAL, 2007 EDITION.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	190	195
				189	194



Plan
Scale: 1"=20'



Plan
Scale: 1"=20'

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

DATE: 10-14-2008 @ 11:18 am
LAST UPDATE: 02-14-2008 @ 1:02 pm
PROJECT: P:\PROJECTS\HAWAII\Honoapiilani Hwy Widening\plan.dwg

RUSSELL Y.J. CHUNG
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 6076
HAWAII, U.S.A.

Russell Y.J. Chung
SIGNATURE
EXPIRATION DATE OF LICENSE: 4/30/09

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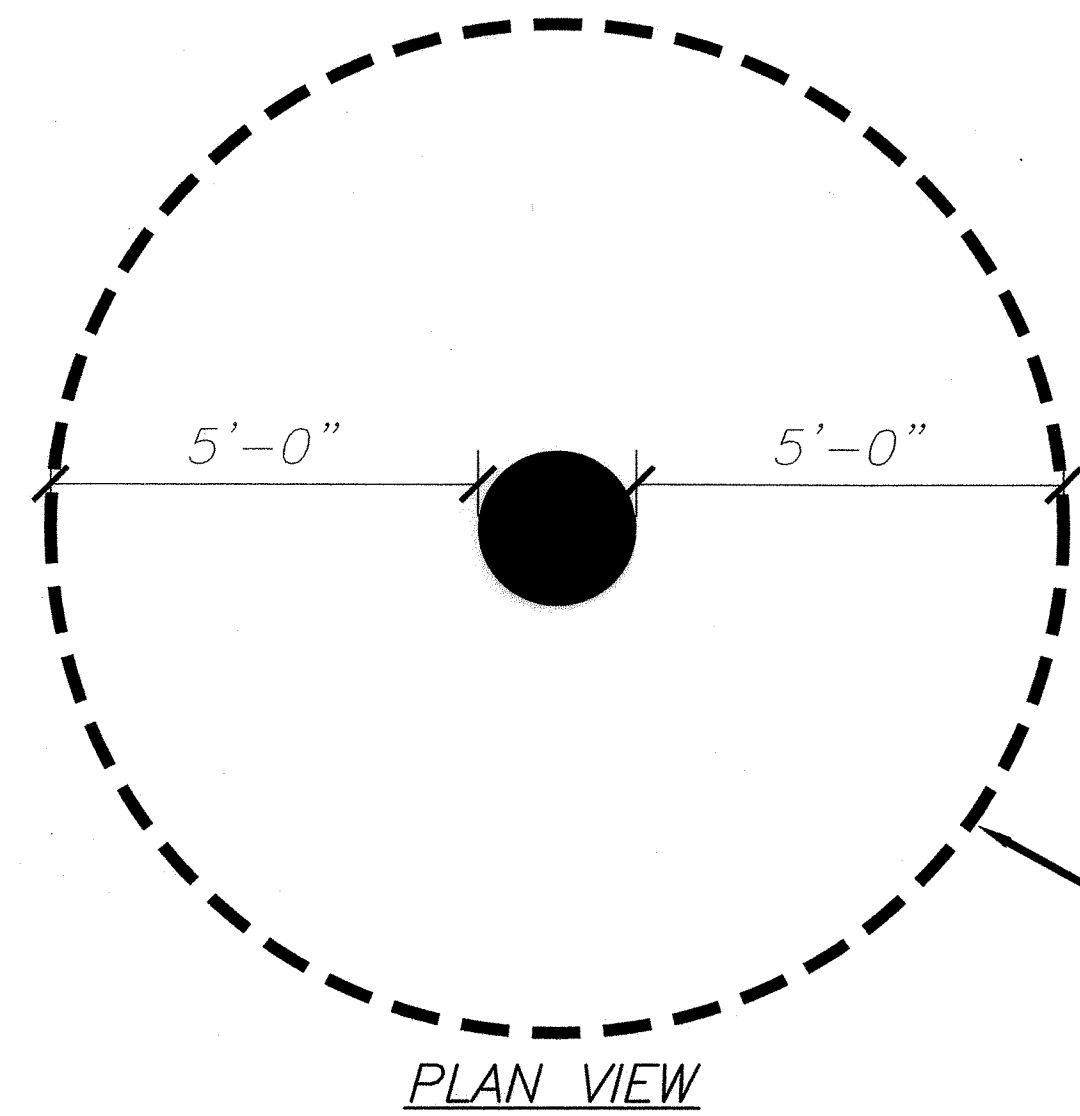
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**HONOAPIILANI HIGHWAY
PLANTING PLAN**

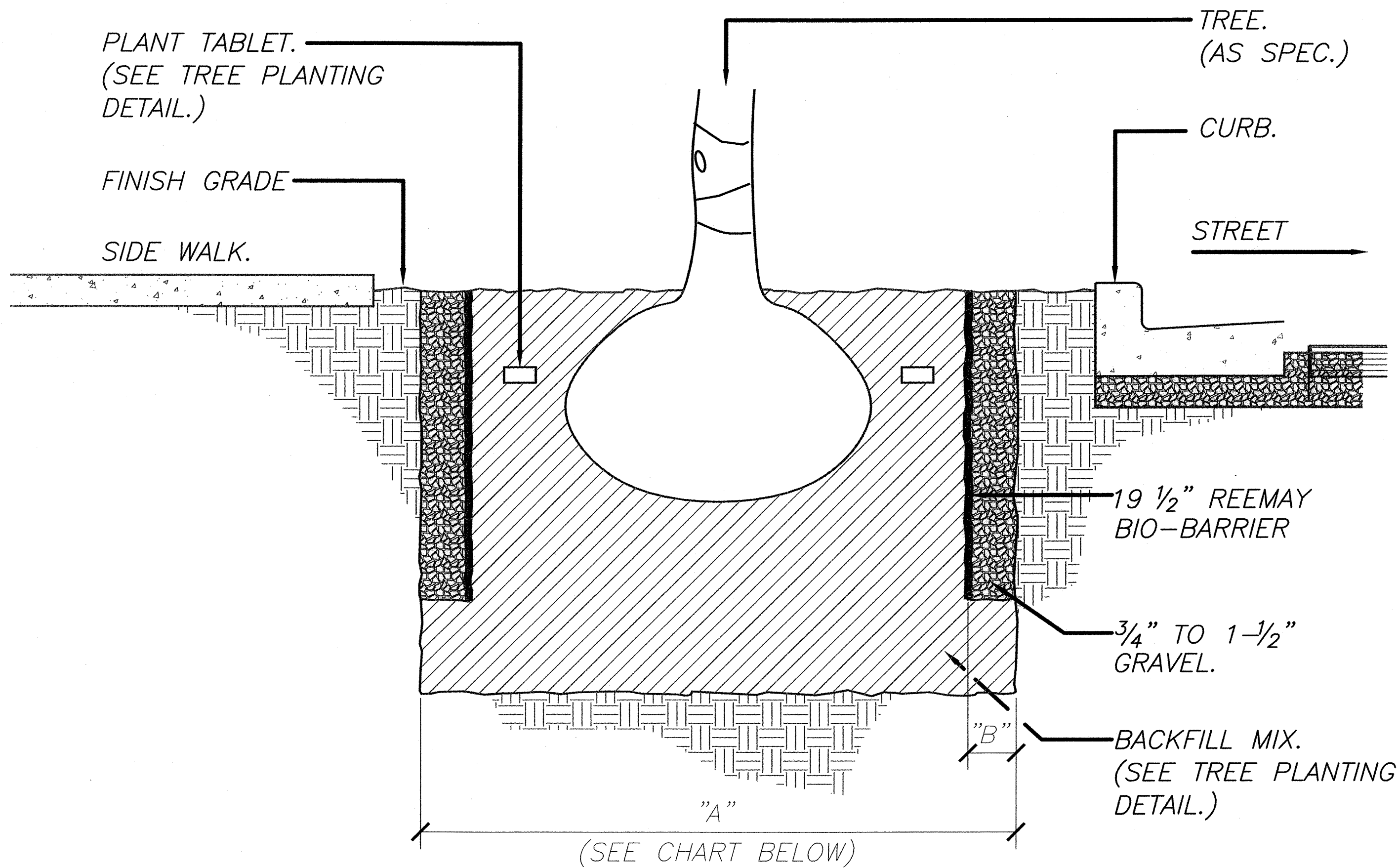
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: ~~June 2007~~ **October 2008**

SHEET No. L-6 OF L-11 SHEETS

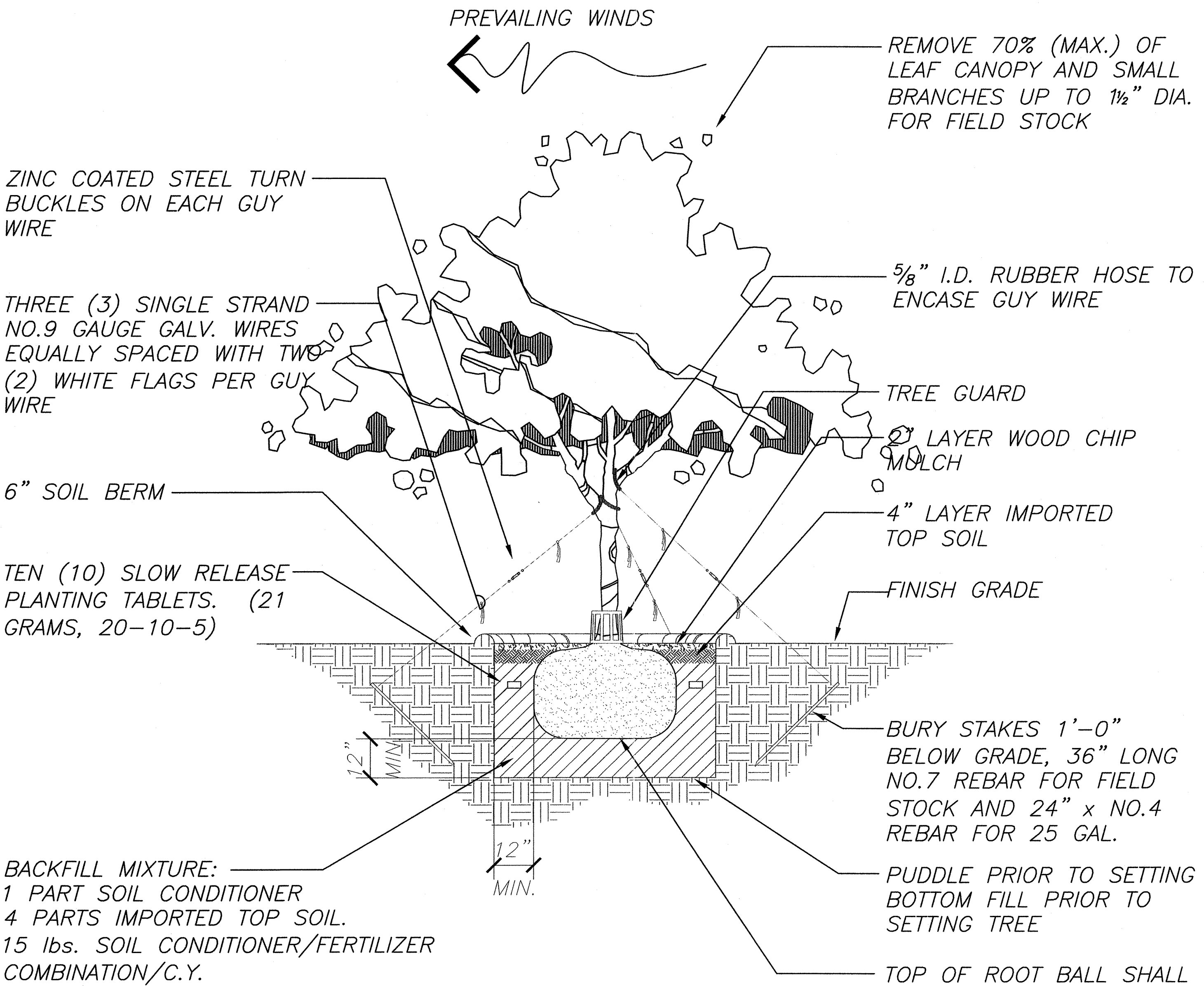


TREE SIZE	"A"	"B"
SPECIMEN	72"	8"
FIELD STOCK	54"	6"
25 gal.	42"	5"
15 gal.	30"	4"
5 gal.	30"	4"



NOTE:
NODULES TO FACE TREE PLACE TOP EDGE OF BIO-BARRIER AT FINISH GRADE AND SECURE W/MANUFACTURER PROVIDED PINS. SEAMS SHALL HAVE MINIMUM 3" OVERLAP. REFER TO MANUFACTURER INSTRUCTIONS FOR BONDING THE SEAM. DO NOT ALLOW GAPS IN FABRIC DURING INSTALLATION OR BACKFILLING. BIO-BARRIER SHOULD NOT BE LEFT EXPOSED TO SURFACE WATER OR SUNLIGHT FOR MORE THAN 12 HOURS SINCE HIGH TEMPERATURES AND SUNLIGHT REDUCE EFFECTIVE LIFE OF PRODUCT. REFER TO PRODUCT LABEL AND MSDS SHEET FOR SAFETY INFORMATION.

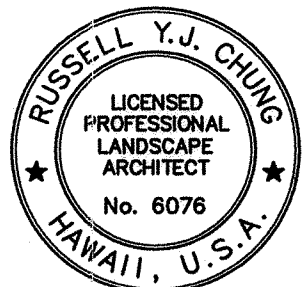
ROOT BARRIER DETAIL
SCALE: NOT TO SCALE



NOTE:
TRUNK MUST BE PROTECTED FROM ROPE SLING BURNS AND ABRASIONS DURING MOVING. TREE SHALL BE PLUMB. IF TREE IS LEANING AT THE END OF THE PLANT ESTABLISHMENT PERIOD, THE TREE SHALL BE REJECTED.

TOP OF ROOT BALL SHALL BE FLUSH W/FINISH GRADE AND TRUNK FLARE SHALL BE VISIBLE. IF TRUNK FLARE IS NOT VISIBLE, TREE SHALL BE REJECTED. ROUGHEN SIDE OF ROOT BALL. REMOVE ROOTS GIRDLING THE TRUNK

TREE PLANTING DETAIL
SCALE: NOT TO SCALE



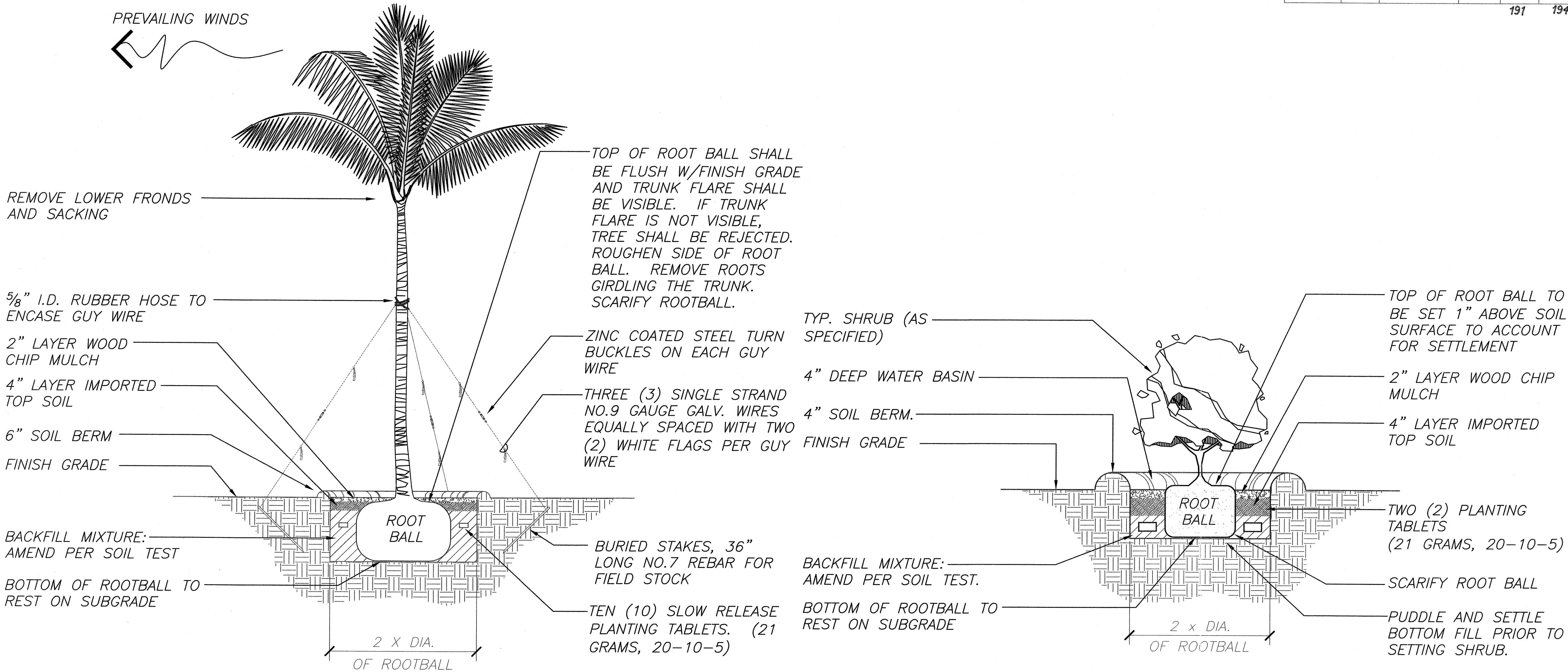
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HONOAPIILANI HIGHWAY
PLANTING DETAILS

Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)

Scale: As Shown Date: ~~June 2007~~ October 2008

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	192	195
				191	194



- NOTES:**
1. TRUNK MUST BE PROTECTED FROM ROPE SLING BURNS AND ABRASIONS DURING MOVING.
 2. WATER HEAVILY TO INSURE SOIL SETTLES AROUND ROOTS.
 3. TREE SHALL BE PLUMB, IF THERE IS LEANING AT THE END OF THE PLANT ESTABLISHMENT PERIOD, THE TREE SHALL BE REJECTED.
 4. PROTECT HEART AND TIP FROM DAMAGE AND BREAKAGE DURING TRANSPORTING AND TRANSPLANTING.

PALM PLANTING DETAIL

SCALE: NOT TO SCALE

SHRUB PLANTING DETAIL

SCALE: NOT TO SCALE

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

LAST UPDATE: 02-14-2008 11:02 am

PLOT DATE: 08-14-2008 11:18 am

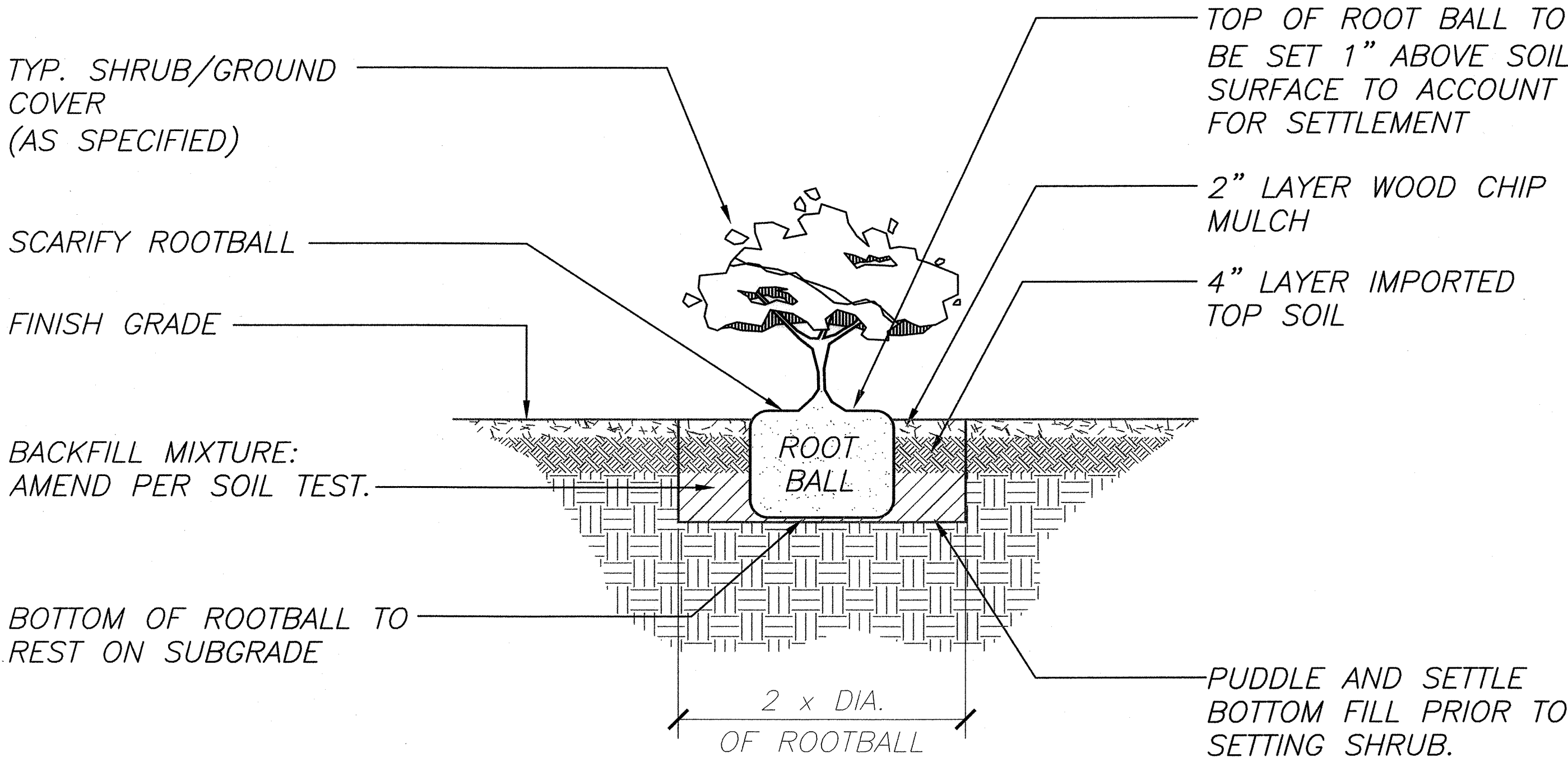
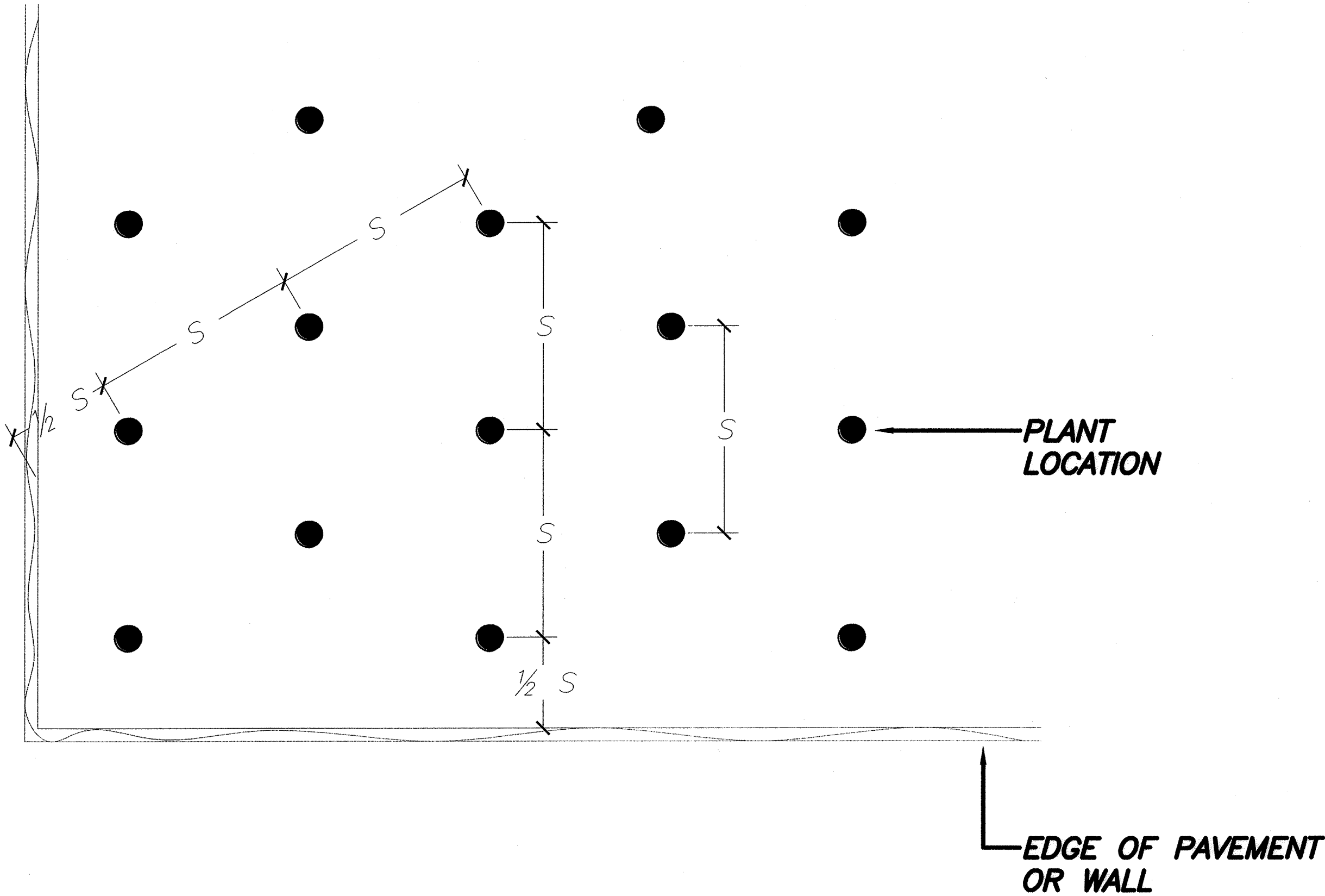


SIGNATURE: *Russell Y.J. Chung* 4/20/08
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STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
HONOAPIILANI HIGHWAY
PLANTING DETAILS
Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)
 Scale: As Shown Date: *October 2008*
 SHEET No. L-8 OF L-11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	193	195
				192	194

- NOTES:
- S = SPACING, (REFER TO PLANT LIST FOR AMOUNT OF SPACING.)
 - USE SPACING LAYOUT FOR SHRUBS, GROUND COVERS AND ANNUALS.



GROUND COVER DETAIL
SCALE: NOT TO SCALE

GROUND COVER DETAIL
SCALE: NOT TO SCALE

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

RUSSELL Y.J. CHUNG
LICENSED PROFESSIONAL LANDSCAPE ARCHITECT
No. 6076
HAWAII, U.S.A.

[Signature]
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HONOAPIILANI HIGHWAY
PLANTING DETAILS

*Honoapiilani Highway Widening
Lahainaluna Road to Aholo Road
Project No. STP-030-1(39)*

Scale: As Shown Date: *October 2008*

SHEET No. L-9 OF L-11 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	193	195
				193	194

PLANT NOTES:

1. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL PLANT QUANTITIES AND DIMENSIONS PRIOR TO INSTALLATION. QUANTITIES SHOWN ON PLANT LIST ARE FOR REFERENCE ONLY, VERIFY ACTUAL QUANTITIES AS SHOWN ON PLAN. IF THERE IS A DISCREPANCY, THE PLANTING PLAN SHALL TAKE PRECEDENCE.
2. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES.
3. PRIOR TO TREE AND SHRUB HOLE EXCAVATION, ALL PLANTING LOCATIONS SHALL BE STAKED OUT BY CONTRACTOR FOR APPROVAL BY ENGINEER. DO NOT PLANT UNTIL GROUND HAS BEEN PREPARED AND FREE OF STONES GREATER THAN 1/2", DIA., SITE IS NEAT, ORDERLY, AND THE ENGINEER ACCEPTS SITE FOR PLANTING.
4. NOTIFY ENGINEER OF ANY DISCREPANCIES IN PLANT LOCATIONS OR INSUFFICIENT PLANT QUANTITIES DUE TO DIFFERENCE IN PLANS AND ACTUAL FIELD CONDITIONS.
5. 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.
6. THE ENGINEER WILL INSPECT PLANTS AT THE PLACE OF GROWTH AND AFTER THE DELIVERY TO THE PROJECT. EACH TREE SHALL BE TAGGED BY THE ENGINEER WITH A CONSECUTIVELY NUMBERED PLASTIC TAMPER-RESISTANT AND SELF-LOCKING SEAL. SEALS SHALL REMAIN ON TREES AND ONLY BE REMOVED BY THE ENGINEER AT THE COMPLETION OF THE PLANT ESTABLISHMENT PERIOD. TREES DELIVERED TO THE PROJECT WITHOUT ENGINEERS SEAL WILL BE REJECTED.
7. PLANTS SHALL MEET SIZE INDICATED BY MINIMUM HEIGHT AND SPREAD. PLANTS SHALL BE STRAIGHT AND UNIFORMLY SHAPED, UNLESS UNIQUE OR SPECIAL CHARACTERISTICS ARE SPECIFIED, AND SHALL BE UNDAMAGED, SOUND, HEALTHY, VIGOROUS AND FREE OF DISEASE AND INSECT INFESTATION. PLANTS NOT CONFORMING TO THESE REQUIREMENTS ON DELIVERY TO THE PROJECT AND AT THE END OF THE PLANT ESTABLISHMENT PERIOD WILL BE REJECTED.
8. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE COMPLETE REMOVAL AND DAMAGES RESULTING FROM PLANTING ANY PLANT SPECIES LISTED ON THE HAWAII DEPARTMENT OF AGRICULTURE 'NOXIOUS WEED RULES' AS DEFINED IN THE STATUTE, HAWAII ADMINISTRATIVE RULES 4:68:1 OR THE 'FEDERAL NOXIOUS WEED LIST' AS DEFINED IN TITLE 7 OF THE CODE OF FEDERAL REGULATIONS (CFR), PARTS 360 AND 361.
9. ALL TREE WORK MUST ADHERE TO AMERICAN NATIONAL STANDARD INSTITUTE (OR ANSI) - A300 TREE CARE STANDARDS AND ANSI-Z133 SAFETY STANDARDS FOR TREE WORK. WORK SHALL BE CONTRACTED TO ARBORISTS THAT HAS BEEN CERTIFIED IN GOOD STANDINGS AS AN ISA CERTIFIED ARBORIST FOR AT LEAST 5 YEARS TO ASSURE THAT TREE WORK IS PERFORMED PROPERLY AND TREES ARE NOT DAMAGED BY PRACTICES SUCH AS TOPPING, FLUSH CUTS, OVER-THINNING, OR CLIMBING WITH SPIKES. CONTRACTOR SHALL SUBMIT A COPY OF THE ISA ARBORIST CERTIFICATION OF GOOD STANDING OF 5 YEARS TO THE ENGINEER MINIMUM 7 DAYS PRIOR TO TREE PRUNING.

10. FOR THE DURATION OF CONSTRUCTION WITHIN THE DRIP LINE OF TREES TO REMAIN THERE MUST BE: NO CHANGES, ALTERATIONS OR DISTURBANCE TO THE GRADE BY ADDING FILL, EXCAVATING OR SCRAPING EXCEPT AS NOTED ON PLANS; NO STORAGE OF CONSTRUCTION MATERIAL OR EQUIPMENT; NO STOCKPILING OF ANY CONSTRUCTION MATERIAL OR ANY EXCAVATED MATERIAL NO DISPOSAL OF ANY LIQUIDS (E.G. CONCRETE SLEUTH, GAS, OIL, PAINT); NO VEHICULAR TRAFFIC, EQUIPMENT OR EXCESSIVE PEDESTRIAN TRAFFIC NO ATTACHMENT OF ANY WIRES, ROPES, LIGHTS, OR ANY OTHER SUCH ATTACHMENT OTHER THAN THOSE OF PROTECTIVE NATURE TO ANY TREE TO BE PRESERVED; AND NO CLEANING OF EQUIPMENT OR MATERIAL UNDER THE CANOPY OF ANY TREE OR GROUP OF TREES TO REMAIN.
11. PROTECTIVE FENCE SHALL BE ERECTED AROUND TREES IDENTIFIED ON PLAN OR TREES WITH TRUNK DIAMETER GREATER THAN 24 INCHES AS MEASURED AT HEIGHT OF 4 1/2 FEET. PROTECTIVE FENCE SHALL BE 4 FEET HIGH ORANGE PLASTIC MESH OR APPROVED EQUIVALENT SUPPORTED ON STEEL T-POST A MINIMUM OF 6 FEET LONG. PROTECTIVE FENCE SHALL SURROUND TREE AT MINIMUM OF 10 FEET FROM TREE TRUNK WITH STEEL T-POST AT A MINIMUM OF 5 FEET ON CENTER.
12. IF TREES OTHER THAN THOSE SPECIFICALLY DESIGNATED FOR REMOVAL ARE DAMAGED BEYOND SURVIVAL CONDITIONS AS DETERMINED BY ENGINEER, THE CONTRACTOR SHALL REMOVE SUCH TREES AND REPLACE THE TREE WITH A SAME SPECIE AND SIZE AND MAINTAIN FOR THE DURATION OF CONSTRUCTION OR 12 MONTHS WHICHEVER IS GREATER AT NO COST TO THE STATE.
13. PROVIDE EVEN FOUR-INCH LAYER OF PLANTING SOIL OVER ALL PLANTING AREAS. REPRESENTATIVE SAMPLES OF SOIL FROM PROJECT SITE SHALL BE SUBMITTED TO THE UNIVERSITY OF HAWAII AGRICULTURAL EXTENTION SERVICE OR LABORATORY ACCEPTABLE TO THE ENGINEER FOR ANALYSIS OF REQUIRED SOIL AMENDMENTS. TEST RESULTS AND FERTILIZATION SCHEDULE SHALL BE PRESENTED TO THE ENGINEER FOR REVIEW AND ACCEPTANCE BEFORE PLACING PLANTING SOIL. UNIFORMLY DISTRIBUTE FERTILIZER AND AMENDMENTS OVER PLANTING AREAS AS RECOMMENDED BY THE SOIL ANALYSIS REPORT. ROTOTILL TOP FOUR-INCHES OF SOIL TO EVENLY INCORPORATE FERTILIZER AND AMENDMENTS.
14. GUY WIRES, FLAGGING, STAKES, WINDBREAKERS, ETC. SHALL BE MAINTAINED AND REPLACED IF NECESSARY BY THE CONTRACTOR UNTIL THE TREE OR SHRUB IS ABLE TO STAND BY ITSELF. THE CONTRACTOR SHALL REMOVE AND DISPOSE AT THE END OF PLANT ESTABLISHMENT PERIOD.
15. ANY PLANTING THAT OBSTRUCTS SIGHT DISTANCE, SIGNS OR TRAFFIC LIGHTS SHALL BE RELOCATED OR REMOVED AS DETERMINED BY THE ENGINEER.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

PLOT DATE: 06-14-2008 @ 11:08 am

LAST UPDATE: 02-14-2008 @ 11:02 am

PATH: \\FLENAE - P:\PROJECTS\HAWAII\Hawaii Hwy Expansion\CD\planting_details.dwg



STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
HONOAPIILANI HIGHWAY	
PLANTING DETAILS	
Honoapiilani Highway Widening Lahainaluna Road to Aholo Road Project No. STP-030-1(39)	
Scale: As Shown	Date: <u>October 2008</u>
SHEET No. L-10 OF L-11 SHEETS	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-030-1(39)	2008	195	195
				194	194

PLANT LIST FOR KAMEHAMEHA HIGHWAY					
QUANTITY	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	REMARKS
	T R E E				
47	QUEEN'S HOSPITAL SHOWER TREE	Cassia x nealiae	25 GAL.		2"-3" Cal. 6'-8' Ht.
	P A L M				
75	LOULU PALM	Pritchardia martii	25 GAL.		5' Trunk Ht.
	S H R U B				
48	DWARF POINCIANA	Caesalpiniaoulcherrima	25 GAL.		2" Cal. 4'-5' Ht.
1,751	BEACH NAUPAKA	Scaevola taccada	1 GAL		3' O.C.
300	CROTON	Codiaeum variegatum	1 GAL.		
174	BROMELIAD	Neoregelia spp.	1 GAL.		
	G R O U N D C O V E R				
5,553	POHINAHINA	Vitex rotundifolia	6" POTS		
	M I S C E L L A N E O U S				
204	CLINKER STONE		CY		8"-12" DIA.
235	ROOT BARRIER		LF		5' LENGTHS AND 2' DEPTH
16,551	FILTER FABRIC		SF		
21,291	SOIL AMENDMENT		SF		1" LAYER
263	IMPORTED TOP SOIL		CY		4" LAYER
21,291	AUTOMATIC IRRIGATION SYSTEM		SF		
3	MAINTENANCE PERIOD		SF		3 MONTHS

ORIGINAL PLAN

SURVEY PLOTTED BY

DATE

NOTE BOOK

DESIGNED BY

QUANTITIES BY

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