



## ADDENDUM # 1

**To: File 1704-988-52-4633**  
**IFB for: Tree Planting & Maintenance Services**

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**The following questions are asked:**

**Question 1:** What types of trees are to be planted?

**Answer 1:** Container grown trees from a variety of species to be obtained through the City of San Antonio which may include Live Oak, Monterrey Oak, Burr Oak, Red Oak, Cedar Elm, Chinese Pistache.

**Question 2:** What type of mulch is to be used?

**Answer 2:** The mulch will be supplied by the City of San Antonio as will the gator bags.

**Question 3:** How is the watering (88 EA) going to be paid? Per watering, per Month, etc.?

**Answer 3:** SAHA pays 30 days after receipt of a valid invoice. Since the bid is for an annual amount for the watering and maintenance of the trees a monthly invoice amount can easily be determined, however SAHA will work with the selected vendor to determine the appropriate invoicing schema. Please note there are 226 trees not 88.

**Question 4:** How is the maintenance going to be paid? Per Visit?

**Answer 4:** Maintenance and watering are inclusive of each so see answer above.

**Question 5:** How many maintenance visits is each tree going to get? Is it the same as the watering?

**Answer 5:** It is expected that if the trees require maintenance it would be performed at the same time as the watering and vendor is expected to make efforts sufficient to ensure trees thrive and loss is limited.

**Question 6:** Are the new trees going to be plant in throughout all of the SAHA properties? Do you know how many locations?

**Answer 6:** The trees will be planted in the Eastside Redevelopment area only. See attached documents.

**Question 7:** What type of reports are going to be needed to submit?

**Answer 7:** A simple spread sheet showing the date of watering, mulching, pruning, and fertilizing for each tree should be sufficient.



**Question 8:** In regards to the watering for the first two months every 4 days. Where do we apply the charges for this, do we apply to planting of the trees or watering of the trees?

**Answer 8:** This would be part of the tree watering and maintenance.

**Question 9:** Is there water available where the trees are to be planted?

**Answer 9:** The selected vendor will be responsible for sourcing the water, SAHA does not have water available as the trees will planted primarily be on public right of ways.

**Question 10:** The specs indicate that the vendor is responsible for the trees in cases of theft, damage or vandalism, please elaborate.

**Answer 10:** We are asking the vendor to exercise reasonable care and prudence to insure the viability of the trees planted. SAHA will work with the vendor in cases where the loss of a tree is beyond their reasonable control and replacement trees may be available through the City of San Antonio.

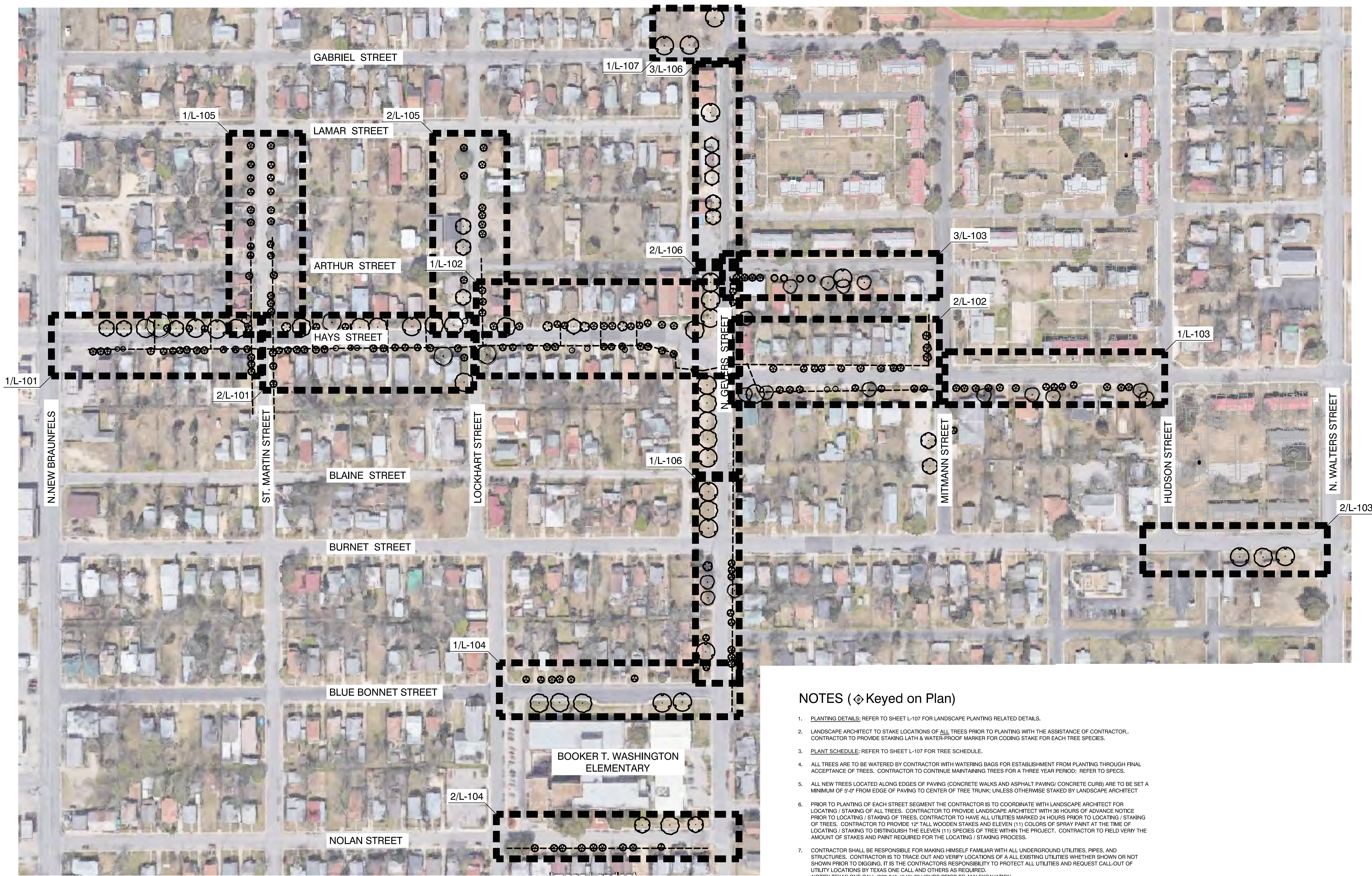
**Question 11:** Where exactly will the trees be picked up for planting?

**Answer 11:** City of San Antonio Parks and Recreation tree lot located at the Darner Parks and Recreation Headquarters 5800 Enrique M. Barrera Parkway 78227 (Formerly 5800 Old Hwy 90 W.) 78227.

**Note:** If the selected vendor obtains materials and supplies from the City that will not be installed the same day they must provide for the secure storage of the trees and materials until they are installed.

By: Charles R Bode  
Charles Bode Asst. Director of Procurement

Date: May 2, 2017

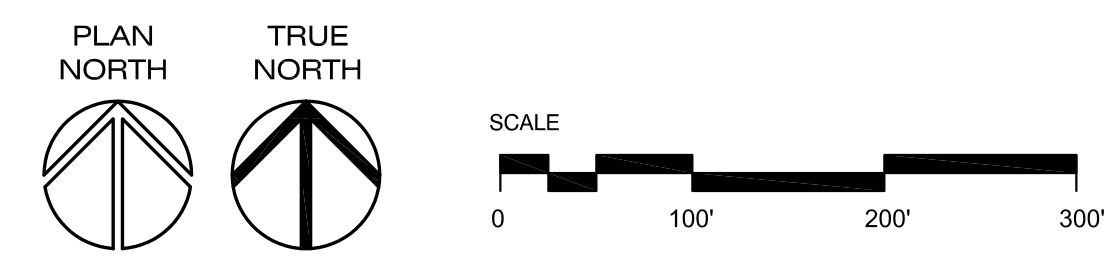


**NOTES (Keyed on Plan)**

1. **PLANTING DETAILS:** REFER TO SHEET L-107 FOR LANDSCAPE PLANTING RELATED DETAILS.
2. **LANDSCAPE ARCHITECT TO STAKE LOCATIONS OF ALL TREES PRIOR TO PLANTING WITH THE ASSISTANCE OF CONTRACTOR.** CONTRACTOR TO PROVIDE STAKING LATH & WATER-PROOF MARKER FOR CODING STAKE FOR EACH TREE SPECIES.
3. **PLANT SCHEDULE:** REFER TO SHEET L-107 FOR TREE SCHEDULE.
4. ALL TREES ARE TO BE WATERED BY CONTRACTOR WITH WATERING BAGS FOR ESTABLISHMENT FROM PLANTING THROUGH FINAL ACCEPTANCE OF TREES. CONTRACTOR TO CONTINUE MAINTAINING TREES FOR A THREE YEAR PERIOD; REFER TO SPECS.
5. ALL NEW TREES LOCATED ALONG EDGES OF PAVING (CONCRETE WALKS AND ASPHALT PAVING/ CONCRETE CURB) ARE TO BE SET A MINIMUM OF 8'-0" FROM EDGE OF PAVING TO CENTER OF TREE TRUNK; UNLESS OTHERWISE STAKED BY LANDSCAPE ARCHITECT
6. PRIOR TO PLANTING OF EACH STREET SEGMENT THE CONTRACTOR IS TO COORDINATE WITH LANDSCAPE ARCHITECT FOR LOCATING / STAKING OF ALL TREES. CONTRACTOR TO PROVIDE LANDSCAPE ARCHITECT WITH 36 HOURS OF ADVANCE NOTICE PRIOR TO LOCATING / STAKING OF TREES. CONTRACTOR TO HAVE ALL UTILITIES MARKED 24 HOURS PRIOR TO LOCATING / STAKING OF TREES. CONTRACTOR TO PROVIDE 12" TALL WOODEN STAKES AND ELEVEN (11) COLORS OF SPRAY PAINT AT THE TIME OF LOCATING / STAKING TO DISTINGUISH THE ELEVEN (11) SPECIES OF TREE WITHIN THE PROJECT. CONTRACTOR TO FIELD VERIFY THE AMOUNT OF STAKES AND PAINT REQUIRED FOR THE LOCATING / STAKING PROCESS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. CONTRACTOR IS TO TRACE OUT AND VERIFY LOCATIONS OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT SHOWN PRIOR TO DIGGING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITIES AND REQUEST CALL-OUT OF UTILITY LOCATIONS BY TEXAS ONE CALL AND OTHERS AS REQUIRED. NOTIFY TEXAS ONE CALL (800-245-4545) 72 HOURS PRIOR TO ANY EXCAVATION.

**PROJECT PHASING:**

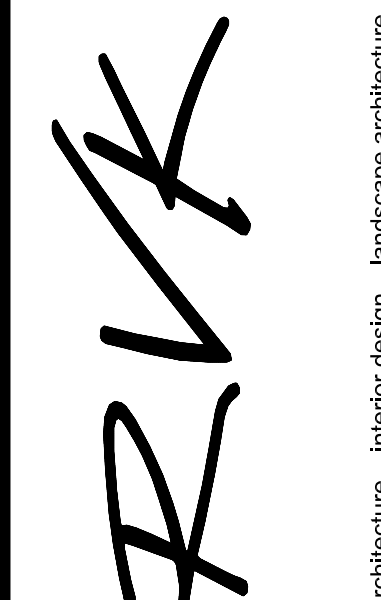
- CONTRACTOR TO BEGIN TREE PLANTINGS AND PROCEED THROUGH THE FOLLOWING RESIDENTIAL STREET SEGMENTS
1. TREES ALONG BLUEBONNET STREET & NOLAN STREET
  2. N. GEVERS' (WESTERN SIDE OF ST.) BETWEEN BLUEBONNET & HAYS
  3. HAYS STREET BETWEEN N. GEVERS & N. NEW BRAUNFELS
  4. ST. MARTIN ST. & LOCKHART ST.
  5. HAYS STREET BETWEEN N. GEVERS & HUDSON ST.
  6. REMAINING SCOPE OF WORK ALONG N. GEVERS, GABRIEL ST. AND BURNET ST.



**1 OVERALL TREE PLAN**  
 IMAGE FROM GOOGLE EARTH  
 1" = 100'

FINAL BID SET  
**SAHA Neighborhood Beautification**  
 Wheatley Neighborhood  
 San Antonio, TX

revisions:



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 san antonio texas 78212  
 telephone: 210.733.3535  
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construction documents

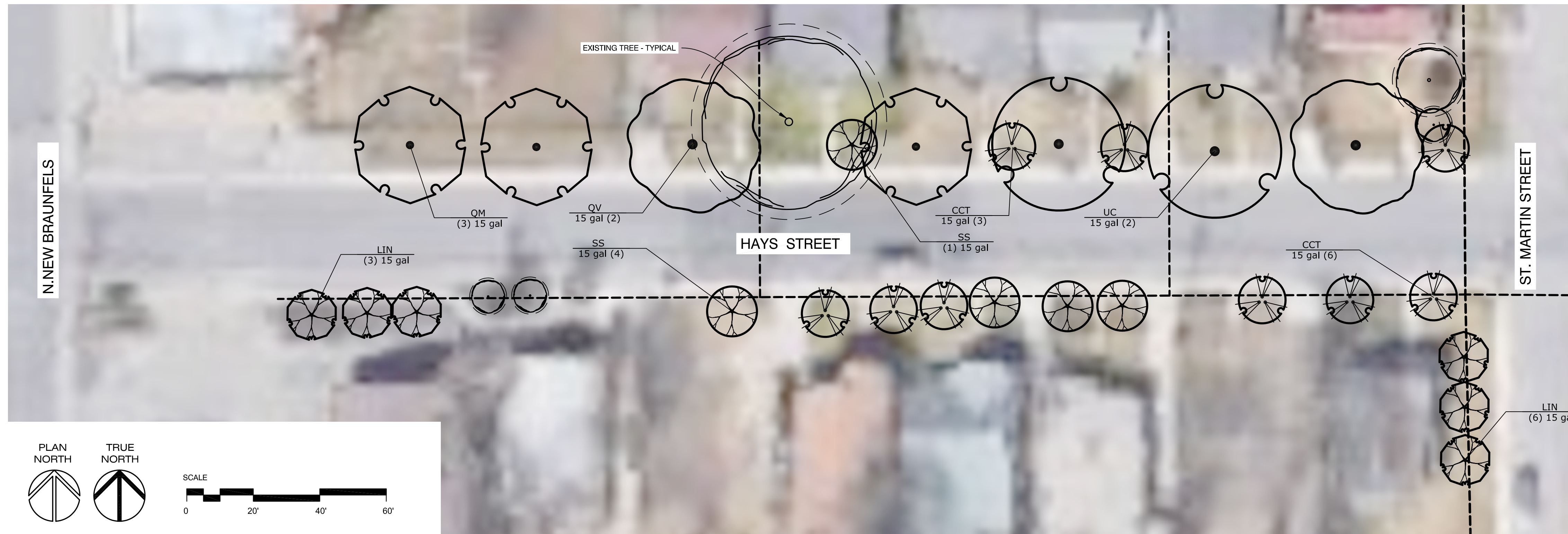
**L-100**

OVERALL TREE PLAN



date 04/19/2017

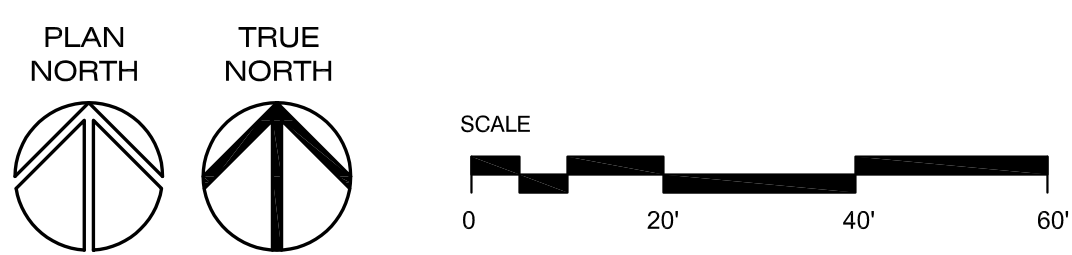
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LEGEND

OVERHEAD UTILITY LINES

TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME
	CCT	62	CERCIS CANADENSIS VAR. TEXENSIS / TEXAS REDBUD
	LIN	59	LAGERSTROEMIA X 'RASPBERRY SUNDAE' / PINK CRAPE MYRTLE MULI
	PA	3	PARKINSONIA ACULEATA / MEXICAN PALO VERDE
	PT	4	PRUNUS PERSICA 'TROPIC SNOW' / FLOWERING PEACH
	QL	5	QUERCUS LACEYI / LACEY OAK
	QM	12	QUERCUS MUEHLENBERGII / CHINQUAPIN OAK
	QP	4	QUERCUS POLYMORPHA 'MONTEREY' / MONTEREY OAK
	QV	19	QUERCUS VIRGINIANA / LIVE OAK
	SS	37	SOPHORA SECUNDIFLORA / TEXAS MOUNTAIN LAUREL
	UC	21	ULMUS CRASSIFOLIA / CEDAR ELM



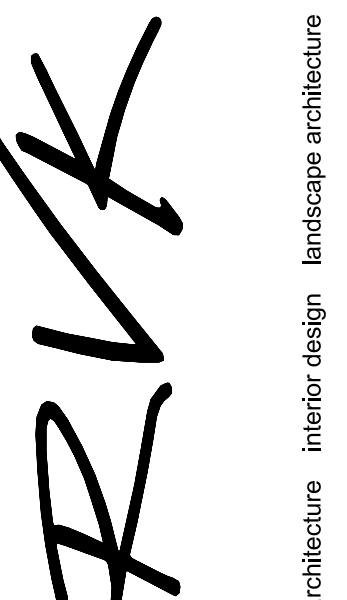
**1 ENLARGED TREE PLAN**  
1" = 20'



**2 ENLARGED TREE PLAN**  
1" = 20'

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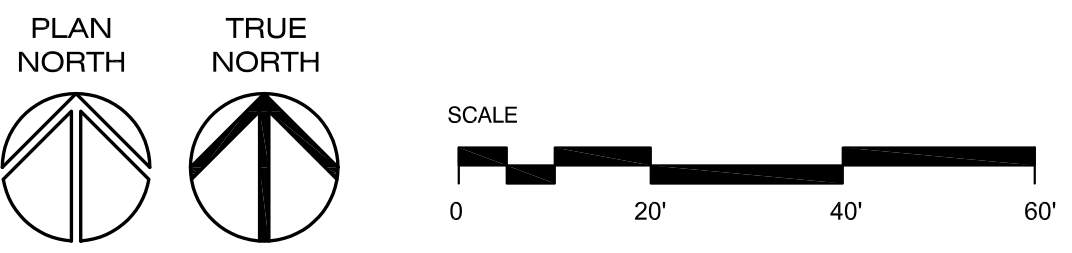
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**L-101**

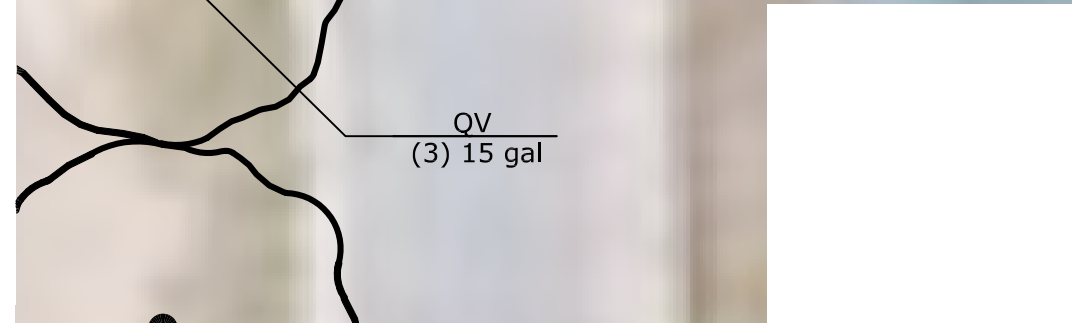
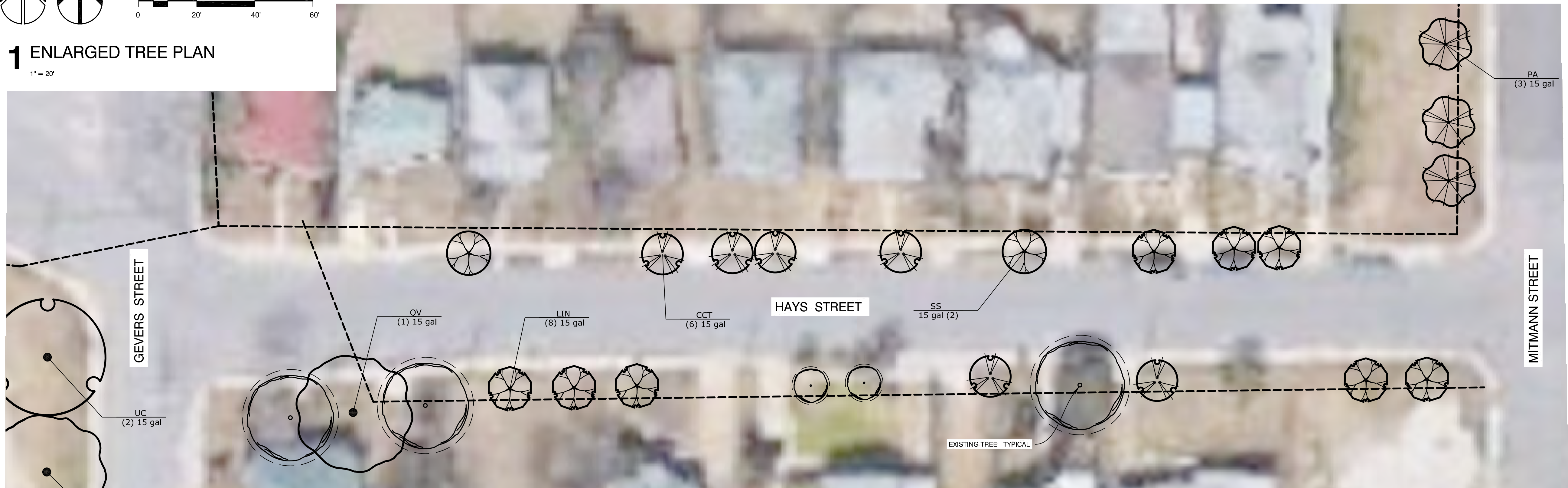
ENLARGED TREE PLAN



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**2 ENLARGED TREE PLAN**  
1" = 20'

**LEGEND**

----- OVERHEAD UTILITY LINES

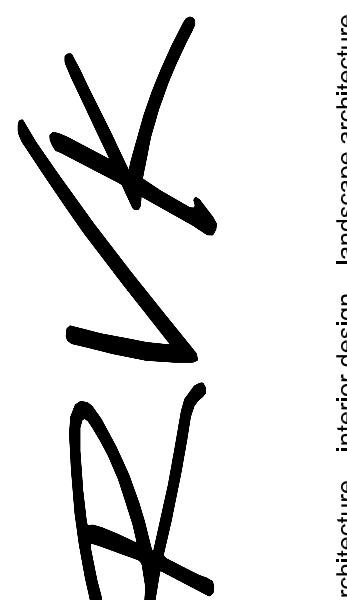
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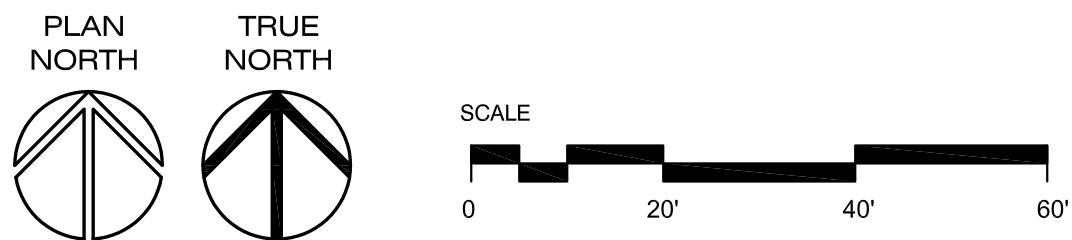
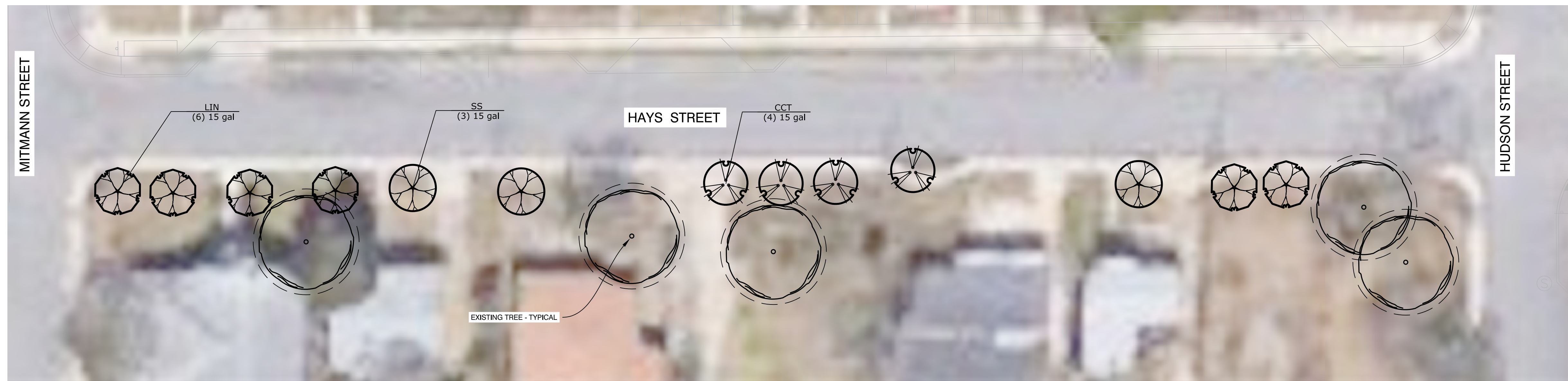
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**L-102**

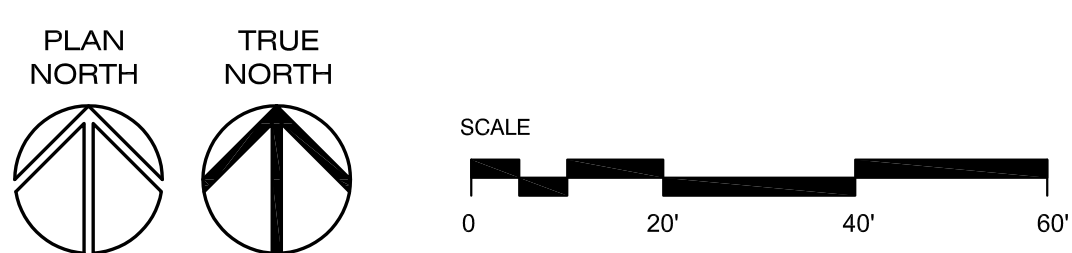
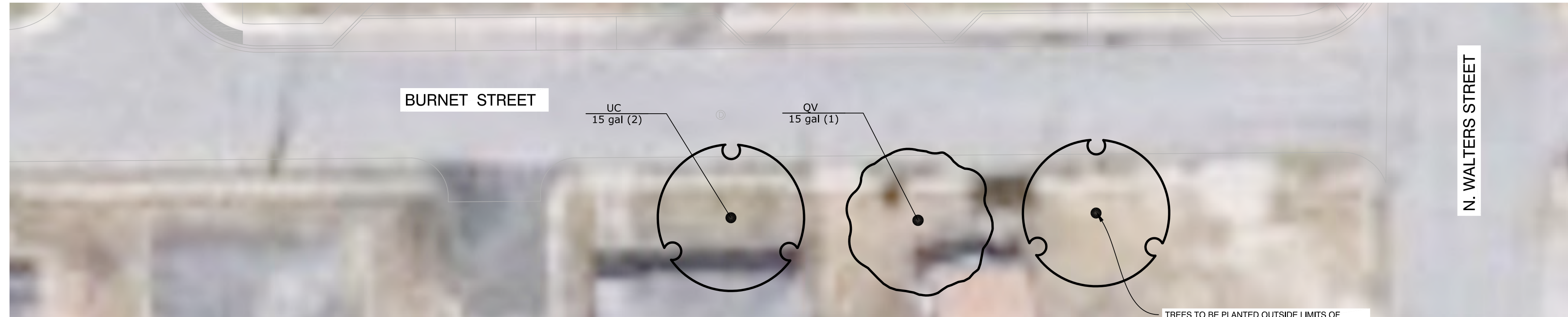
ENLARGED TREE PLAN



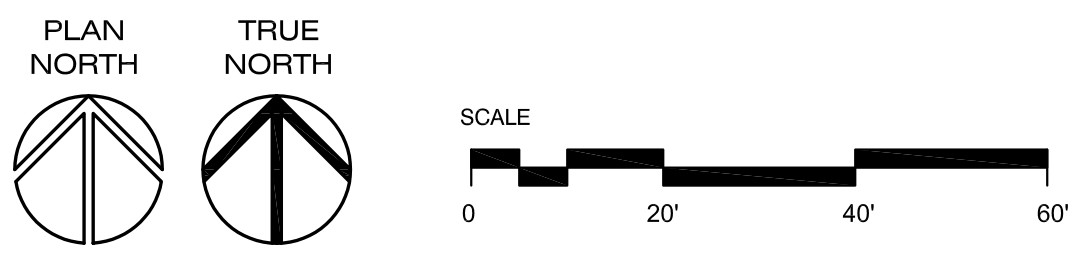
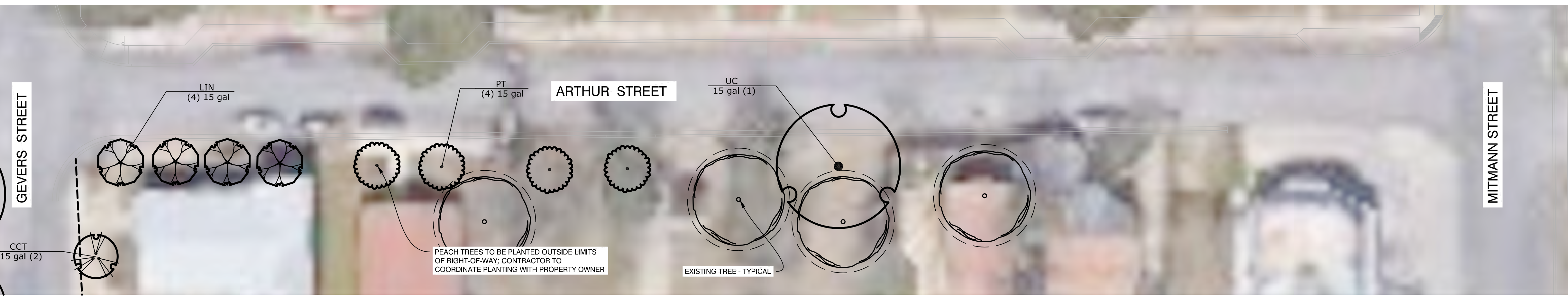
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**2 ENLARGED TREE PLAN**  
1" = 20'



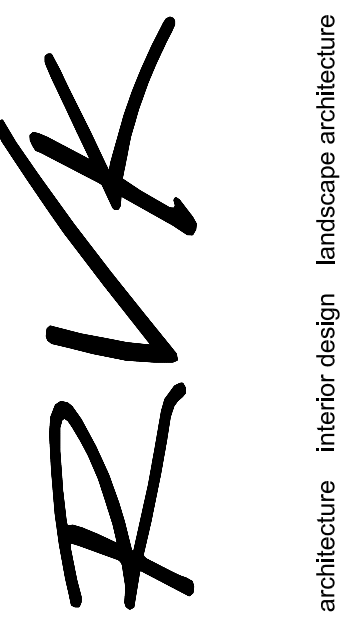
**3 ENLARGED TREE PLAN**  
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**LEGEND**

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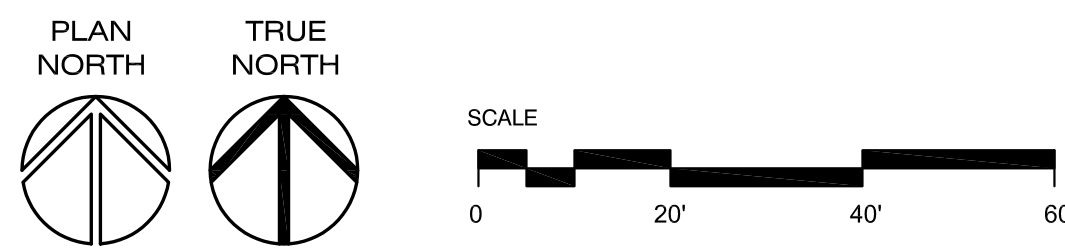


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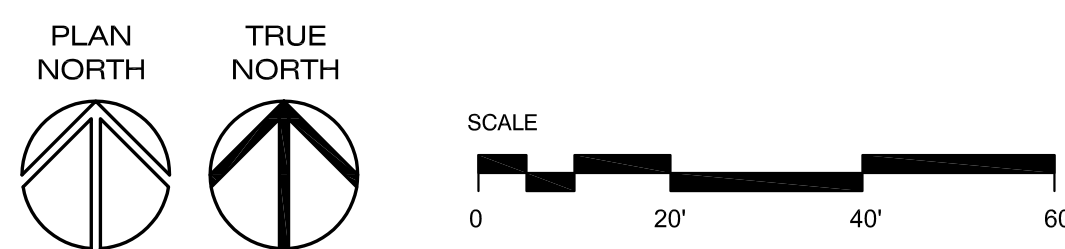
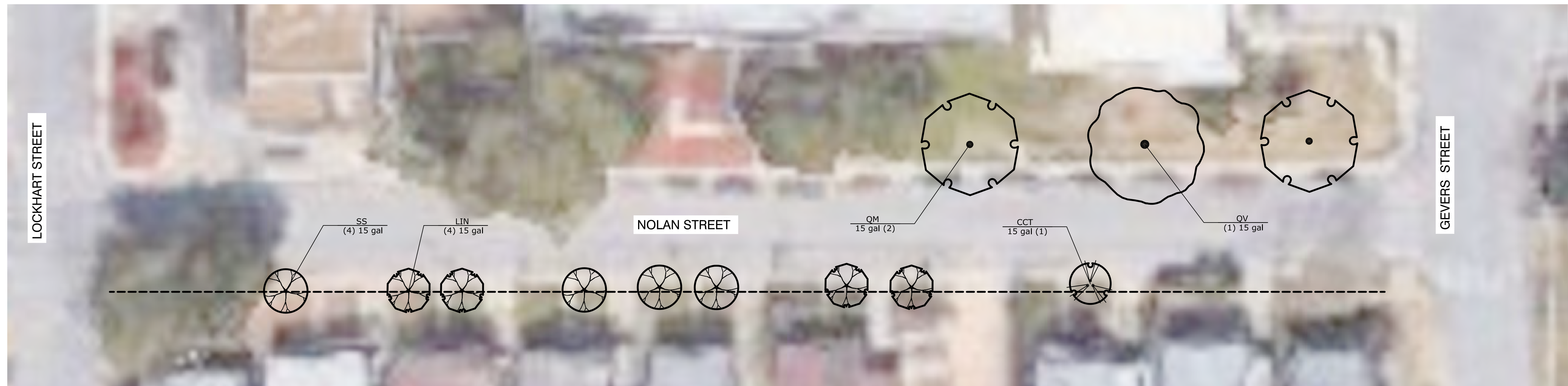
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**LEGEND**

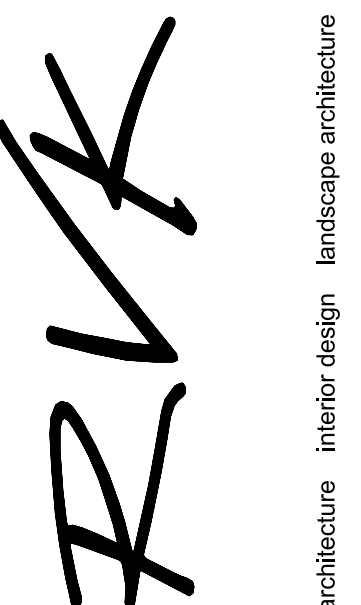
----- OVERHEAD UTILITY LINES

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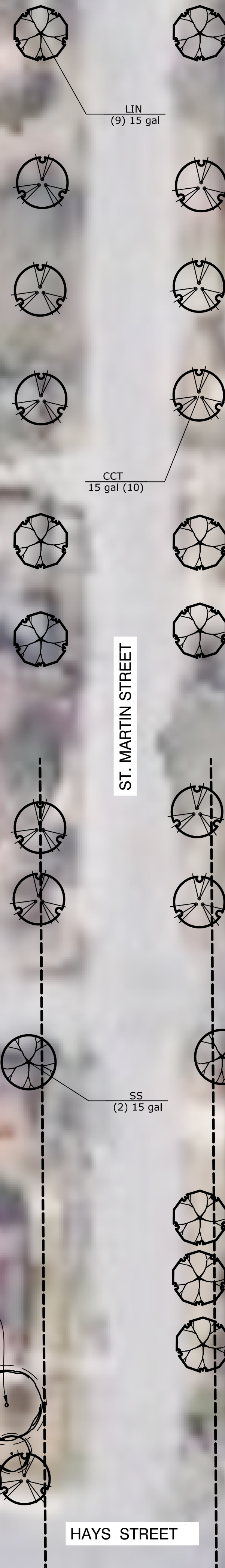
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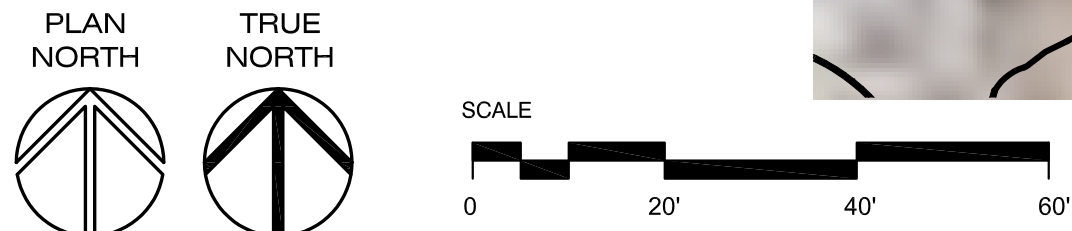
LAMAR STREET



ST. MARTIN STREET

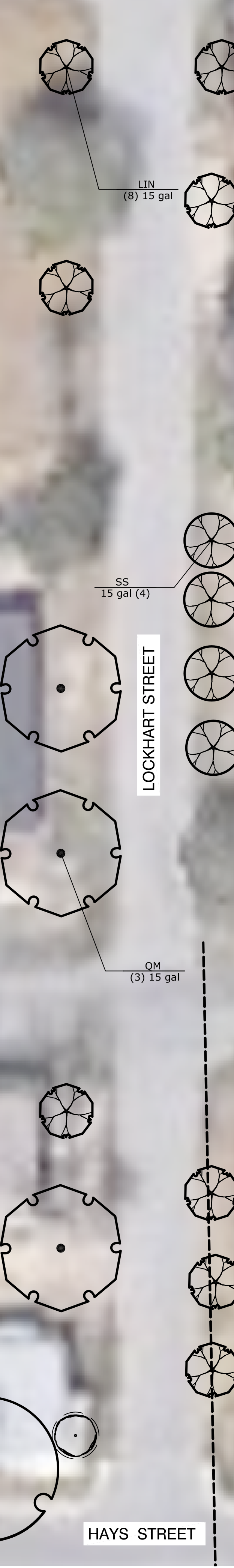
ARTHUR STREET

HAYS STREET



**1 ENLARGED TREE PLAN**  
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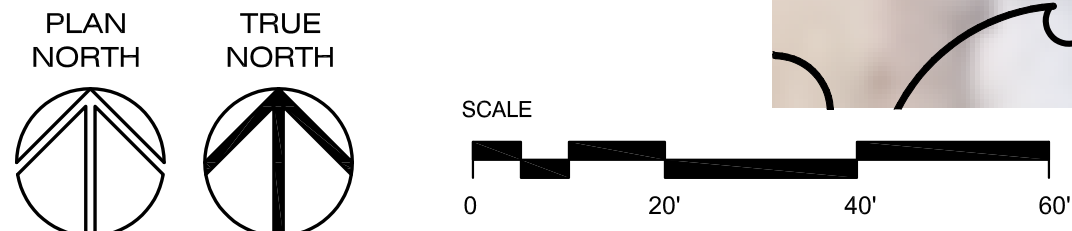
LAMAR STREET



LOCKHART STREET

ARTHUR STREET

HAYS STREET



**2 ENLARGED TREE PLAN**  
1" = 20'

LEGEND

OVERHEAD UTILITY LINES		TREES	
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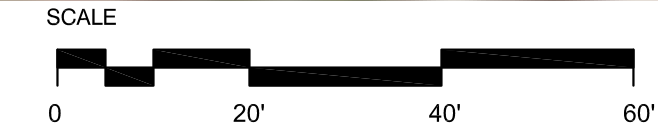
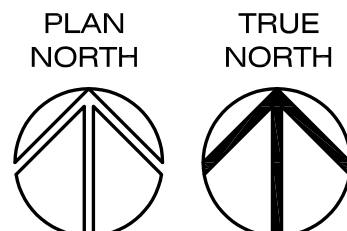
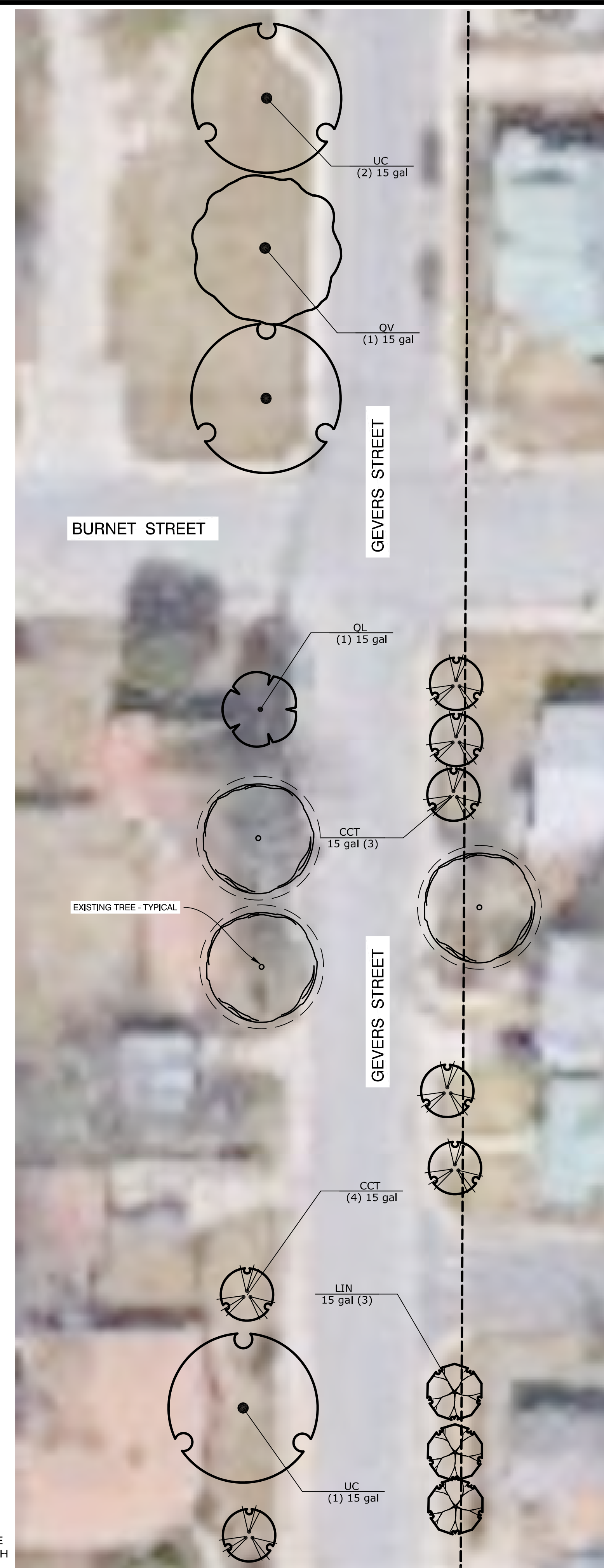
**L-105**

ENLARGED TREE PLAN

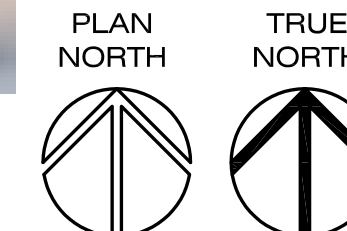
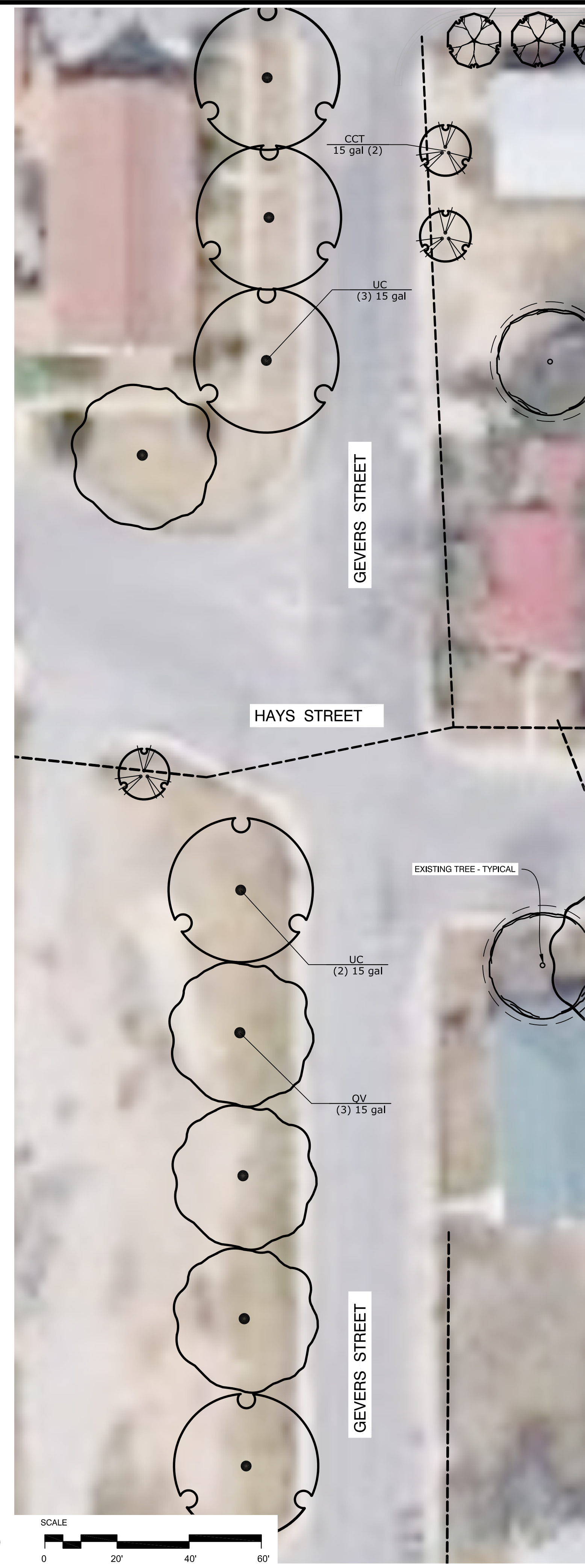




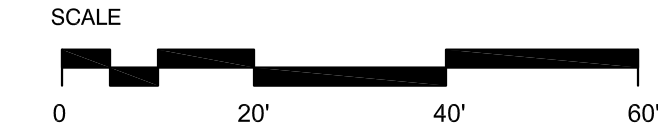
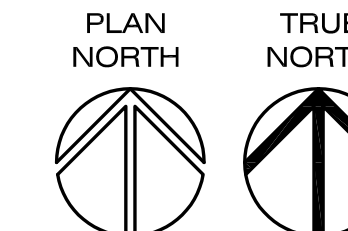
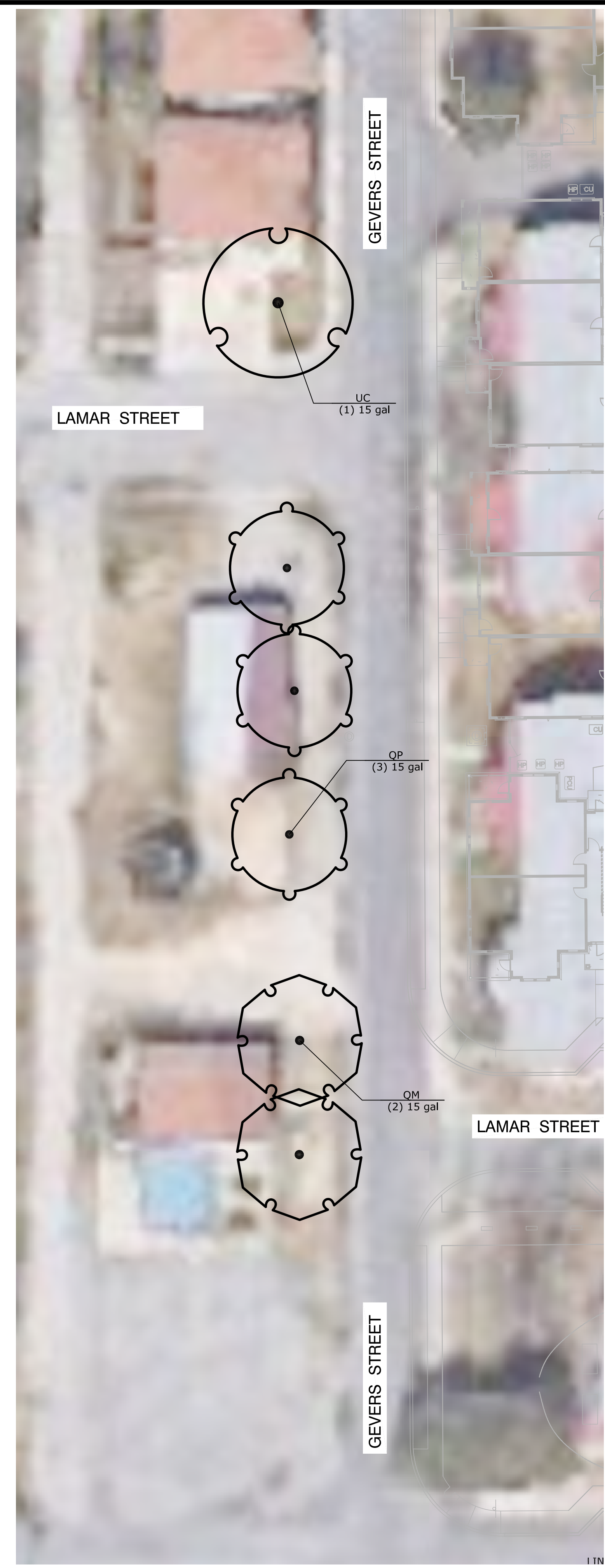
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2 ENLARGED TREE PLAN  
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3 ENLARGED TREE PLAN  
1" = 20'

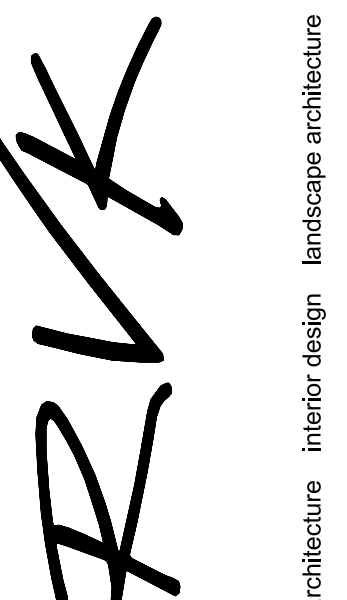
LEGEND: REF. SHEETS L-101 - L-105 FOR PLAN LEGEND

FINAL BID SET

# SAHA Neighborhood Beautification

Wheatley Neighborhood  
San Antonio, TX

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## L-106

ENLARGED TREE PLAN



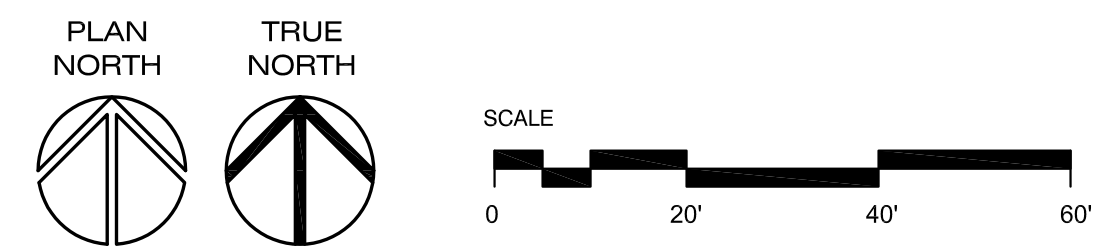
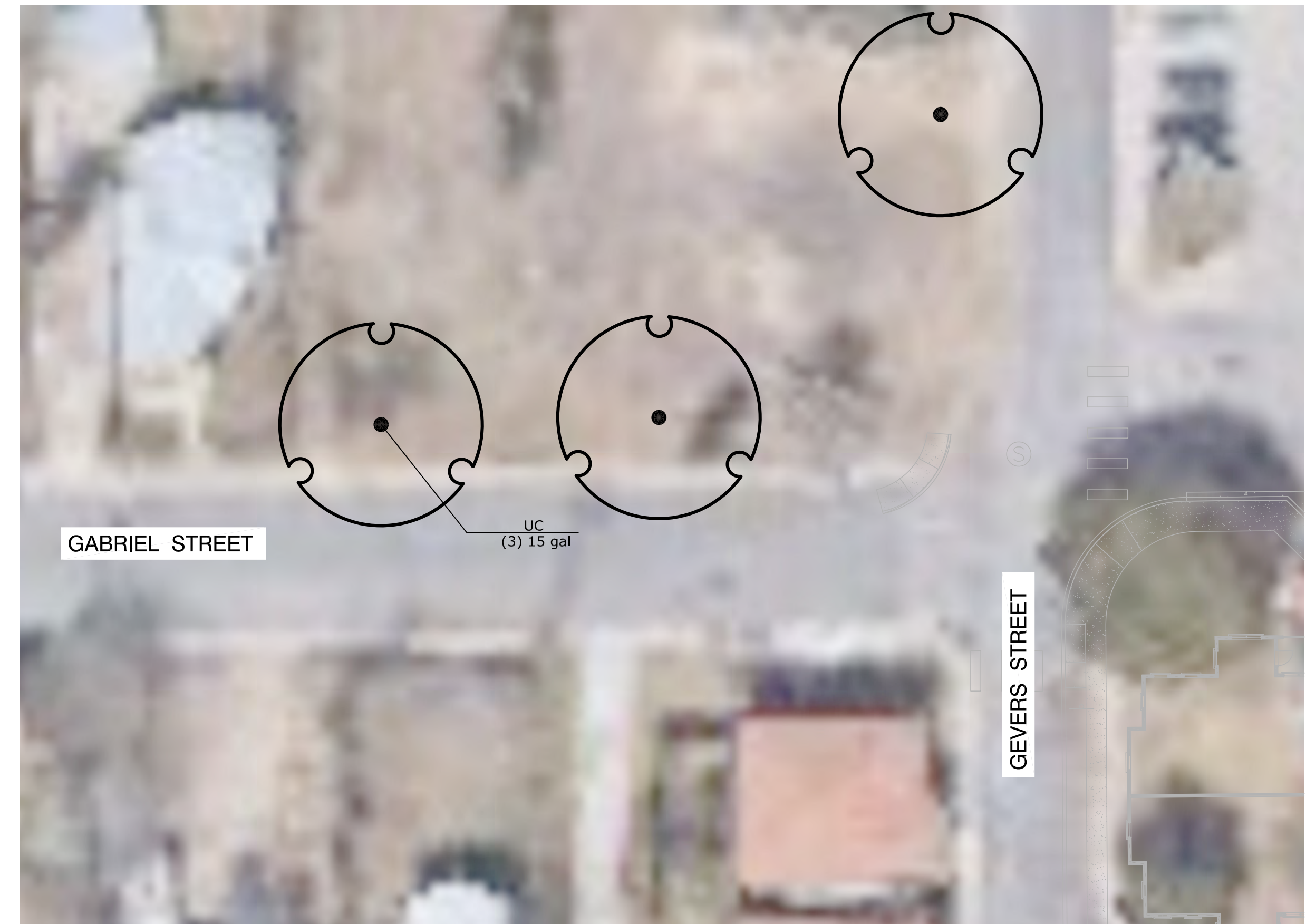
date 04/19/2017

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**PLANT SCHEDULE**

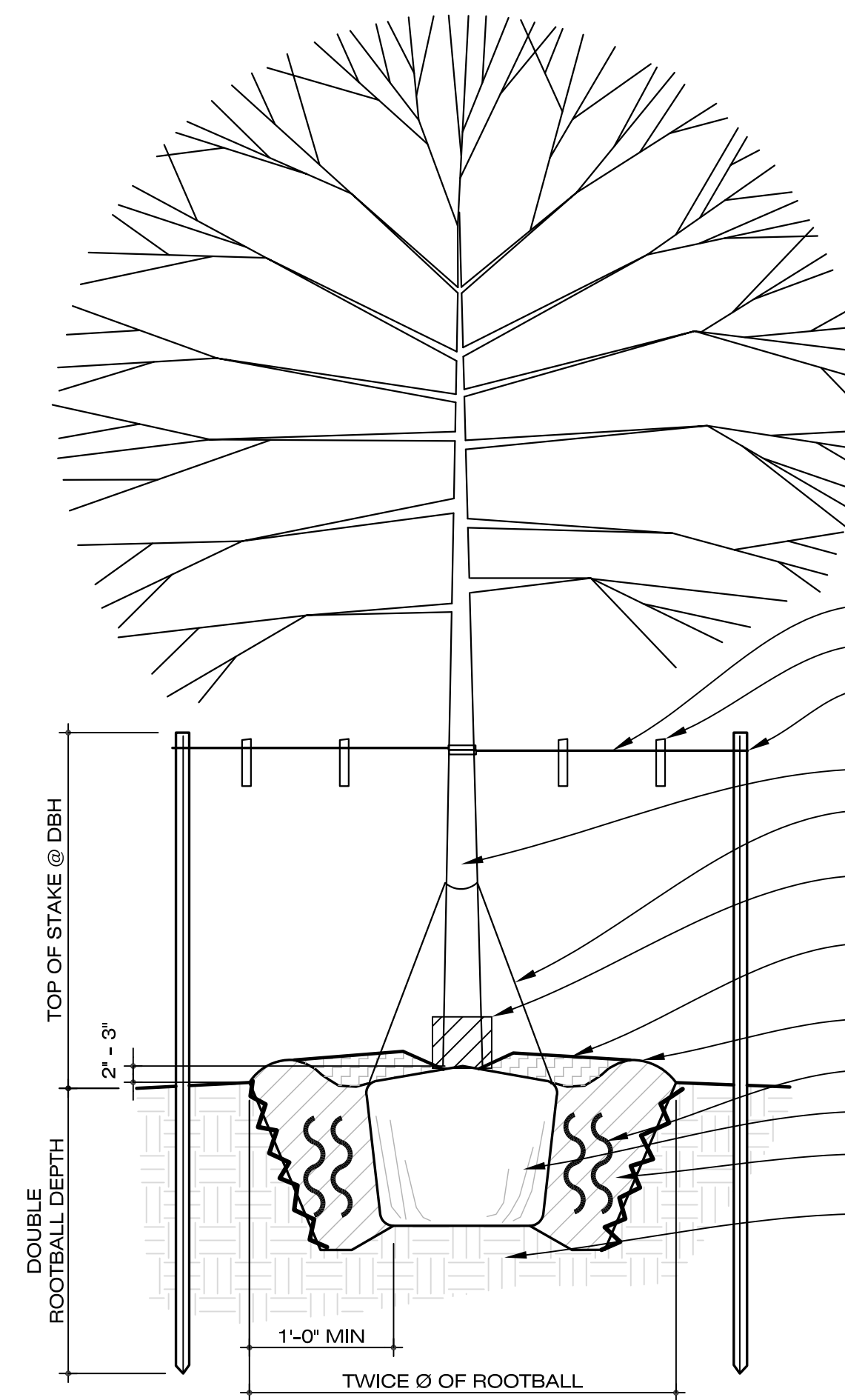
TREES	CODE	QTY	BOTANICAL NAME / COMMON NAME	SIZE	H X S	CONDITION
	CCT	62	CERCIS CANADENSIS VAR. TEXENSIS / TEXAS REDBUD	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	LIN	59	LAGERSTROEMIA X 'RASPBERRY SUNDAE' / PINK CRAPE MYRTLE MULTI-TRUNK	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	PA	3	PARKINSONIA ACULEATA / MEXICAN PALO VERDE	15 GAL	4-5' X 4-5'	CONTAINER GROWN
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	QL	5	QUERCUS LACEYI / LACEY OAK	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	QM	12	QUERCUS MUEHLENBERGII / CHINQUAPIN OAK	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	QP	4	QUERCUS POLYMORPHA 'MONTEREY' / MONTEREY OAK	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	QV	19	QUERCUS VIRGINIANA / LIVE OAK	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	SS	37	SOPHORA SECUNDFLORA / TEXAS MOUNTAIN LAUREL	15 GAL	4-5' X 4-5'	CONTAINER GROWN
	UC	21	ULMUS CRASSIFOLIA / CEDAR ELM	15 GAL	4-5' X 4-5'	CONTAINER GROWN

NOTE: TREES, MULCH, COMPOST, FERTILIZER & WATERING SYSTEM TO BE PROVIDED BY OTHERS



LEGEND: REF. SHEETS L-101 - L-105 FOR PLAN LEGEND

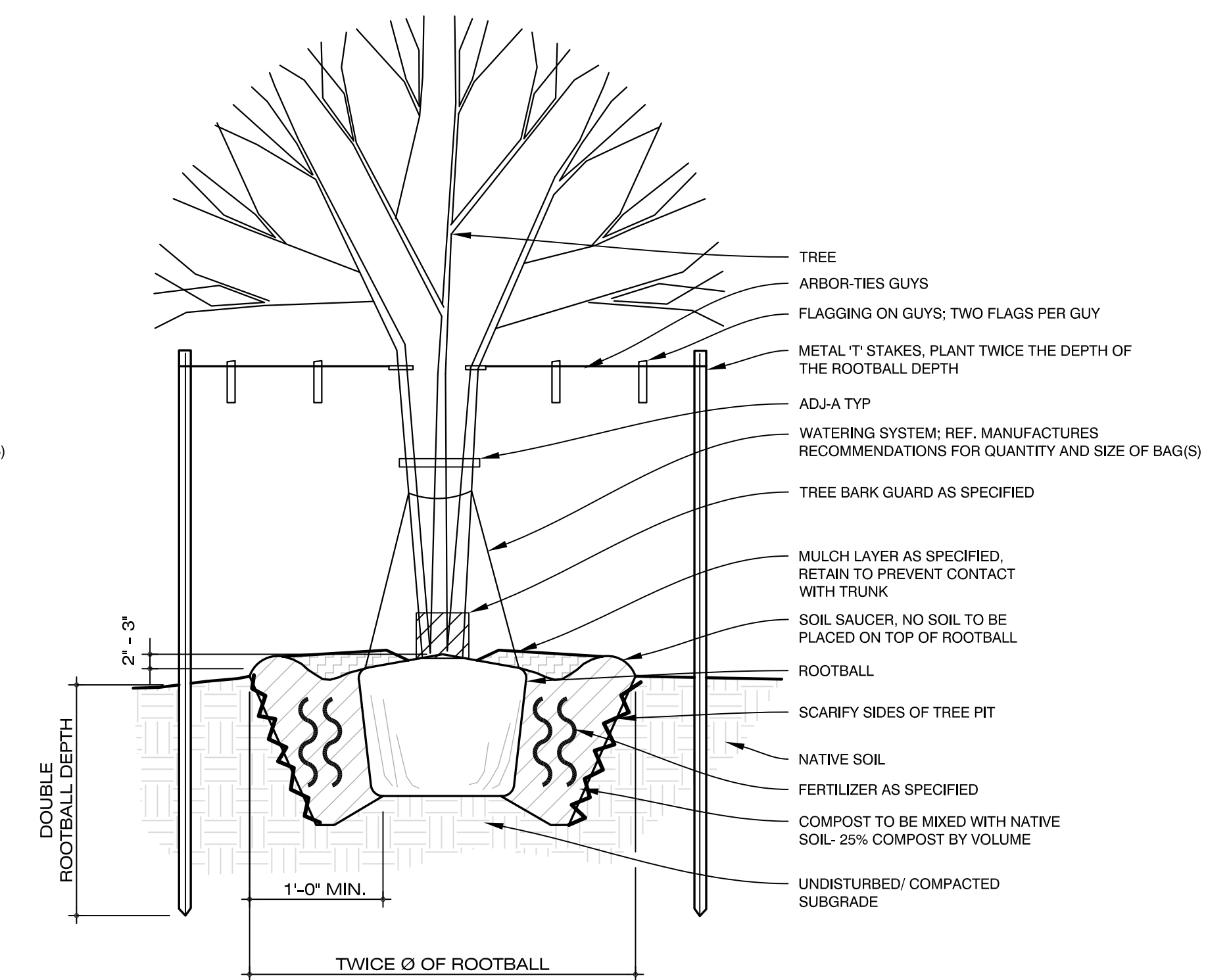
**1 ENLARGED TREE PLAN**  
1" = 20'



- NOTES:
1. PLACE STAKES IN THE DIRECTION OF PREDOMINANT WINDS OF THE AREA.
  2. THE TREE PLANTING PIT SHALL BE NO LESS THAN TWO TIMES THE DIAMETER OF THE ROOTBALL.
  3. REMOVE ALL CONTAINERS FROM THE ROOTBALL.
  4. SCARIFY ALL SIDES AND BOTTOM OF TREE PIT FOR ROOT PENETRATION.

**2 CANOPY TREE**  
NTS

NOTE: TREES, MULCH, COMPOST, FERTILIZER & WATERING SYSTEM TO BE PROVIDED BY OTHERS



- NOTES:
1. PLACE STAKES IN THE DIRECTION OF PREDOMINANT WINDS OF THE AREA.
  2. THE TREE PLANTING PIT SHALL BE NO LESS THAN TWO TIMES THE DIAMETER OF THE ROOTBALL.
  3. REMOVE ALL CONTAINERS FROM THE ROOTBALL.
  4. SCARIFY ALL SIDES AND BOTTOM OF TREE PIT FOR ROOT PENETRATION.

**3 UNDERSTORY TREE**  
NTS

NOTE: TREES, MULCH, COMPOST, FERTILIZER & WATERING SYSTEM TO BE PROVIDED BY OTHERS

FINAL BID SET

**SAHA Neighborhood Beautification**  
Wheatley Neighborhood  
San Antonio, TX

revisions:



745 e mulberry ave suite 601  
san antonio texas 78212  
telephone: 210.733.3535  
web: www.rvk-architects.com

construction documents

**L-107**

ENLARGED TREE PLAN,  
SCHEDULE & DETAILS

## SECTION 32 9300

## EXTERIOR PLANTS

## PART 1 - GENERAL

## 1.01 SECTION INCLUDES

- A. Extent of landscape work is shown on drawings and in schedules.

## 1.02 SOURCE QUALITY CONTROL

- A. General: Planting materials shall meet or exceed the Specifications of Federal, State and local laws requiring inspection for plant disease and insect control.
- B. Plant material shall conform to the following documents which are to be considered part of these Specifications:
- "Standardized Plant Names," American Joint Committee on Horticultural Nomenclature, latest edition.
    - Names of varieties not listed conform generally with names accepted by the nursery trade.
    - Provide stock true to botanical name and legibly tagged.
  - "American Standard for Nursery Stock," American Association of Nurserymen, Inc., latest edition. A plant shall be dimensioned as it stands in its natural position.
  - "Grades and Standards for Nursery Stock," Texas Association of Nurserymen.
  - All plants shall be nursery grown under climatic conditions similar to those in the locality of the project.
- C. Stock furnished shall be at least the minimum size indicated.

## 1.03 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Trees:
- Do not prune prior to delivery unless otherwise approved by Landscape Architect.
  - Do not bend or bind-le trees in such manner as to damage bark, break branches or destroy natural shape.
  - Provide protective covering during delivery to prevent wind burn.
  - Spray deciduous plants in foliage with approved anti-desiccant to prevent dehydration.
- B. Deliver plant materials after preparations for planting have been completed and plant immediately.
- Protect all plants from drying out.
  - Use all means necessary to protect plant materials before, during and after installation and to protect the installed work and materials of all other trades.
  - Do not remove container grown stock from containers until planting time. Do not drop stock during delivery; broken and loose balls shall not be accepted.

## 1.04 ABBREVIATIONS

- A. GAL- Gallon Container Size as Indicated
- B. M.T.- Multi-Trunk
- C. CAL- Calliper
- D. HT.- Height
- E. SP.- Spread

## 1.05 WARRANTY &amp; GUARANTEES

- A. TREE:
- Warranty trees for a period of one (1) year following the date of final acceptance to be alive and in satisfactory growth at the end of the warranty period.
  - Replacement:
    - By the end of the guarantee period, any plant that is dead or 50 percent or more of the main branch structure dead, or not in satisfactory growth as determined by the Owner or the Landscape Architect, shall be removed from the site and shall be replaced.
    - All replacements shall be plants of the same kind and size as specified in the plant list and shall be furnished and planted as originally specified.
    - Labor cost of such replacements shall be borne by the Contractor. note: Associated compost and mulch will be furnished to the contractor by San Antonio Parks & Recreation Department.
    - Replacement plants shall be guaranteed for one (1) year or as noted in the warranty.
    - Replacement shall be made within 10 days after notification, or as soon as weather conditions are satisfactory for planting.

## PART 2 - PRODUCTS

## 2.01 GENERAL

- A. Products as identified will be provided to the contractor by the City of San Antonio Parks & Recreation Department (SAPAR) for use by the contractor in completing the installation of the tree planting, maintenance, and warranty work.
- Point of Contact: Ross Hosea, City Forester; Parks & Recreation Department; 5800 Enrique M. Barrera Parkway; San Antonio, Texas; (210) 207-3108
  - Products not indicated as such are to be the responsibility of the contractor.

## 2.02 SOIL ADDITIVES

- A. Soil Conditioner: (SAPAR) Compost (leaf mold compost): Vegetative material or other organic residue, without dust, objectionable odors, viable weed seed; aerobic and friable composted for a minimum of 9 months. Compost derived from animal manure and stable bedding is not acceptable.
- Product shall be OMRI (Organic Materials Review Institute) certified organic.
  - Prior approved manufacturer: New Earth Soils and Compost, San Antonio, Texas; (210) 661-5180
- B. Fertilizer for Trees: (SAPAR) Agriform Tablets or approved substitute.
- C. Herbicide
- Post-Emergence Herbicide: Round-Up by Monsanto Corp., or approved substitute.
  - Pre-emergence weed control (after cultivation): XL-ZG by Dow Elanco or approved substitute

## 2.03 PLANT MATERIALS

- A. Quality: (SAPAR)
- Provide trees of size, genus, species and variety shown and scheduled for landscape work as per the following:
    - Provide plants typical of their species or variety; with normal, densely-developed branches and vigorous, fibrous root systems.
    - Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation.
    - All plants shall have a fully developed form without voids and open spaces.
  - All plant materials and trees shall be nursery grown; field collected materials are not acceptable.
- B. Container Grown stock: Grown in a container for sufficient length of time for the root system to have developed to hold its soil together, firm and whole.
- C. Height of branching should bear a relationship to the size and variety of tree specified and with the crown in good balance with the trunk.
- Trees shall not be "poled" or the leader removed.
- D. Trunk shall be reasonably straight and symmetrical with crown and have a persistent main leader for single-stem trees.
- E. No pruning wounds shall be present with a diameter of more than one (1) inch and such wounds must show vigorous bark on all edges.

## 2.04 MISCELLANEOUS LANDSCAPE MATERIALS

- A. Dress Mulch: (SAPAR) Regular, double shredded, unscreened hardwood or approved equal.
- B. Wound Dressing: Black enamel based spray paint.
- C. Anti-Desiccant: Emulsion type, film forming agent designed to permit transpiration but retard excessive loss of moisture from plants.
- D. Watering System: (SAPAR) Treegator Drip Irrigation or approved substitute.
- E. Tree Bark Guard: Tree Guard Bark Protector available at A.M. Leonard or approved substitute; color to be neutral.
- F. Water:
- Furnished by the Contractor.
  - Refer to Landscape Maintenance for watering schedule.
  - Hose and other watering equipment to be provided by Contractor

## 2.05 MATERIALS FOR STAKING TREES

- A. Stakes: (SAPAR) Six (6) foot height studded steel T-posts with painted finish for rust protection.
- B. Plastic chainties: Ady-A-Tie as manufactured by A.M. Leonard Inc. Piqua, Ohio or approved substitute
- C. Tree ties: Arbor-tie by Deeproot Green Infrastructure L.L.C.; San Francisco, CA or approved substitute

## CONT. 32 9300 - EXTERIOR PLANTS

## PART 3 - EXECUTION

## 3.01 PREPARATION FOR TREE PITS

- A. Remove existing surface vegetation including roots / rhizomes over planting pit area & dispose off site.
- B. Excavate pits with vertical sides and with bottom of excavation slightly raised at center to provide proper drainage.
- C. Minimum diameter of planting pit is twice the diameter of the rootball.
- D. Prior to planting, fill excavations for trees with water and allow to percolate out before planting; must drain out within 8 hours.

## 3.02 PLANTING TREES

- A. Elevation: Set trees to place top of root ball 2 to 3 inches above finish grade.
- B. Setting Plants:
- After placing the plant in the specified pit, amended soil shall be placed around the ball and compacted to avoid injury to the roots and to fill all voids.
  - When pits are nearly filled with soil, add water and allow to soak away.
  - Fill the pit to finished grade with planting soil allowing for mulching material.
  - Form a shallow saucer around each plant by placing a ridge of planting soil around the edge of each pit to retain water.
- C. Backfill Material (amended soil):
- Utilize excavated parent soil in the backfill mixture of the planting pit. Mix parent soil at 75:25 ratio with compost.
  - Absolutely no topsoil or planting mixture shall be placed over top of rootball.
  - Do not be set trees plumb by adjusting the ball.
- F. When plants are set at proper elevation, planting soil shall be replaced around the ball and compacted, avoiding injury to the roots and filling all voids.
- G. Planting pits shall be raked smooth and thoroughly watered and then water allowed to soak away.
- H. After planting operation and prior to mulching, pre-emergent weed control shall be applied to the entire pit/basin area according to the manufacturer's recommendations.
- I. Prune, thin out and shape trees in accordance with standard horticultural practice.
- Unless otherwise directed by Landscape Architect, do not cut tree leaders, and remove only injured or dead branches, if any.
  - Prune shrubs to retain natural character.
  - Cuts on plants over 3/4-inch in diameter to be cut back to sound tissue, smoothed and shaped so as not to hold rain water and painted with an approved tree wound paint.
  - Remove and replace excessively pruned or misformed stock resulting from improper pruning.
- J. Maintain a minimum 3'-0" diameter saucer at base of trees within lawn areas clear of any grass.
- K. Staking trees:
- Stake trees immediately after planting.
  - Under no circumstances is a tree to be plumbed with extreme tautness of guy ties.
  - Locate and drive stakes at equal spaced intervals outside the tree pit(s).
    - Provide guy ties from each stake to encircle trunk at 40% to 50% of the tree's height.
    - Slightly tighten wire tie to hold trunk firmly, but under no circumstances is tree to be plumbed by extreme tautness of ties.
    - Provide 3- stakes per tree.
    - Provide flagging material on guy ties for visibility.

## 3.03 FERTILIZATION OF TREES

- A. Fertilization of trees shall be accomplished after soil preparation work is complete in accordance with the following specifications:
- When plant pit has been backfilled 75% place fertilizer tablets, equally spaced around root ball in accordance with the following schedule:
 

15 gallon = 8 tablets (21 grams)
----------------------------------
  - Area beneath drip-line of the trees is to be well watered after the fertilization is placed.

## 3.04 MULCHING:

- A. Dress Mulching:
- Within two days after planting not less than four (4) inches over tree pits.
  - Keep mulch six (6) inches away from tree trunk.

## 3.06 MAINTENANCE

- A. Begin maintenance immediately after each plant is planted. Maintenance shall continue until final acceptance of the project. Refer to Section 32 9310 - LANDSCAPE MAINTENANCE.

## 3.07 CLEANUP AND PROTECTION

- A. During landscape work, all rope, wire, burlap, empty containers, rocks, clods and other debris, shall be removed daily and the site kept neat at all times.
- B. Any excess excavated subsoil or topsoil shall be removed from the site.
- C. After planting operations are finished, all paved areas which may have become strewn with soil or other material shall be thoroughly cleaned by sweeping, and if necessary, power washing.
- D. Protect landscape work and materials from damage due to landscape operations and trespassers.
- Maintain protection during installation and maintenance periods.
  - Treat, repair or replace damaged landscape work as directed.

## 3.08 INSPECTION AND ACCEPTANCE

- A. When landscape work is completed, including maintenance, Landscape Architect will, upon written request by the Contractor, make an inspection to determine acceptability.
- B. Where inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until re-inspected by the Owner or Landscape Architect and found to be acceptable.
- Remove rejected plants and materials promptly from the project site.

END OF SECTION 32 9300

## SECTION 32 9310

## LANDSCAPE MAINTENANCE

## PART 1 - GENERAL

## 1.01 SECTION INCLUDES

- A. Maintenance of the landscape to be provided.
- B. Submit to owner a bid alternate for three (3) year extended landscape maintenance period to be initiated after final acceptance of project. Three year maintenance period shall be sequenced with the watering schedule per the minimum number of site visits:
- First (1) year - One (1) time per week (52 times)
  - Second (2) year - Two (2) times per month (24 times)
  - Third (3) year - One (1) time per month (12 times)

## PART 2 - PRODUCTS

## 2.01 MATERIALS- Refer to respective landscape sections for applicable materials.

## PART 3 - EXECUTION

## 3.01 LANDSCAPE MAINTENANCE - GENERAL

- A. Obtain and follow the maintenance instructions provided by the installer of new plant materials.
- B. Watering: Comply with Federal, state, local, and other regulations in force; prevent over-watering, run-off, erosion, puddling, and ponding.
- Contractor to adhere to the following watering schedule.
- A. General Cleanup: Remove debris from within 5' of all tree saucers at time of filling watering system.
- Debris consists of trash, rubbish, dropped leaves, downed branches and limbs of all sizes, dead vegetation, rocks, and other material not belonging in tree saucer area.
  - Remove debris from site and dispose of properly.
- D. Trees: Exercise care to avoid girdling trees; provide protective collars if necessary; remove protective collars at end of maintenance period.
- E. Earth Mound Watering Basins: Maintain in good condition and as required to permit efficient application of water without waste; reapply mulch if soil surface shows maintaining depth required.
- F. Health Maintenance: Inspect all trees regularly for health:
- Eradicate diseases and damaging pests, regardless of severity or speed of effect.
  - Treat accidental injuries and abrasions.
  - If a plant is unhealthy but not yet dead, according to specified definitions, determine reason(s) and take remedial action immediately.
  - Remove dead plants immediately upon determining that they are dead.
- G. Pesticide and Herbicide Application: Comply with manufacturer's instructions and recommendations and applicable regulations.
- Obtain Owner's approval prior to each application.
  - Apply in manner to prevent injury to personnel and damage to property due to either direct spray or drifting, both on and off Owner's property.
  - Use backflow preventers on hose bibbs used for mixing water; prevent spills.
  - Inspect equipment daily before application; repair leaks, clogs, wear, and damage.
  - Do not dispose of excess mixed material, unmixed material, containers, residue, rinse water, or contaminated articles on site; dispose of off site in legal manner.
  - Rinse water may be used as mix water for next batch of same formulation.
  - Contractor is responsible for all record keeping, submissions, and reports required by laws and regulations.

## 3.02 MAINTENANCE

- F. Maintain trees by pruning removal of dead wood, watering, weeding and mulching as required for normal, healthy growth.
- Restore tree saucers.
    - Maintain not less than four (4) inches of dress mulch over tree pits / saucers.
    - Keep mulch six (6) inches away from tree trunk.
    - Tighten and repair stake and guy supports and reset trees and shrubs to proper grades or vertical position as required.
    - Remove staking with owner approval after first year.
  - Spray as required to keep trees and shrubs free of insects and disease.
  - Pruning to consist of:
    - To improve overall natural character and openness of the canopies to train growth of tree.
    - Repair damage
    - Provide clearance for emergency vehicles and vehicles along streets (clearance height 13'-6")
    - Provide clearance for pedestrians along paths of travel (clearance height 8'-6")
    - Provide clearance to allow sight distance / visual access within clear vision areas of street and driveway as required by COSA Unified Development Code
    - Pruning to be completed to satisfaction of owner.

## 3.03 ITEMS TO BE FURNISHED

- A. Maintenance Instructions:
- Submit typewritten instructions defining procedures to be conducted by the contractor for the landscape maintenance period.
  - Instructions shall present maintenance procedures/activities to be implemented over a three (3) year period on a month by month basis.
- B. Watering Schedule:
- Through 8 week establishment period - Fill 15 gallon watering system once every four days
  - First (1) year - Fill 15 gallon watering system once a week per tree
  - Second (2) year - Fill 15 gallon watering system twice a month per tree
  - Third (3) year - Fill 15 gallon watering system once a month per tree
  - Contractor to deviate from the watering schedule as necessary to maintain the health of the tree. Contractor to take local weather into consideration.

## 3.04 CLEANUP AND PROTECTION

- A. Protect existing vegetation, pavements, and facilities from damage due to maintenance activities/operations, operations by other contractors and trades and trespassers; restore damaged items to original condition or replace, at no extra cost to Owner.
- Treat, repair or replace damaged landscape work as directed.
- B. Clean adjacent pavements of plant debris and other debris generated by maintenance activities.
- C. Remove and dispose of general cleanup debris and biodegradable debris in a proper manner.
- Biodegradable Debris: Owner's trash collection facilities may not be used; dispose of off site in accordance with applicable regulations.
  - Non-Biodegradable Debris: Owner's trash collection facilities may not be used; dispose of off site in accordance with applicable regulations.
- D. During maintenance period, all debris shall be removed at each site visit and the site kept neat at all times.
- E. After maintenance operations are finished, all paved areas which may have become strewn with soil or other material shall be thoroughly cleaned by sweeping, and if necessary, power washing.

END OF SECTION 32 9310



date 04/19/2017

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FINAL BID SET  
**SAHA Neighborhood Beautification**  
 Wheatley Neighborhood  
 San Antonio, TX

revisions:

**RVK**  
 architecture interior design landscape architecture

745 e mulberry ave suite 601  
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construction documents

L-108

LANDSCAPE SPECIFICATIONS