

THE CITY OF LONG BEACH



TREE REPLANTING MASTER PLAN



LiRo Engineers, P.C.

REBUILDING STRONGER SMARTER SAFER



WEST BEECH STREET -
VIEW FROM NATIONAL BLVD.

CHRINIAN



LiRo Engineers, P.C.

3 Aerial Way
Syosset, New York 11791
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TREE REPLANTING MASTER PLAN

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The City of Long Beach
1 West Chester Street
Long Beach, NY 11561



Dear Long Beach City Council;

The LiRo Group has completed evaluations of all city street and park trees. Based on the data we collected and processed we have supplied the DPW a list of hazardous trees to be removed.

This list provides a roadmap to replace the affected trees. We anticipate up to eight (8) flowering/ small trees will be planted at the intersections. The balance of the removals will be replaced at predetermined intervals from field surveys. These field surveys will allow specific placement of trees and additional trees to be planted in the future to complete the reforestation of the city.

The new list of trees which was selected to be more tolerant of shoreline-beach conditions was compiled from reliable sources such as NYCDPR Forestry, Suny and Cornell.

New planting guidelines have been adapted from NYCDPR Forestry guidelines and will be combined with specific City of Long Beach guidelines for the future. This will guide Long Beach to anticipate all possible planting situations and permit as many trees as possible to be planted throughout the city.

Standard guidelines;

1. Residential intersections will have trees planted (40) forty feet 'set back' from intersections. This action will help shield young trees from the damaging North - South winds and assist pedestrians and drivers with increased visibility and safety.
2. Spacing between shade/ large trees will be standardized to a minimum of (30' feet, +/- pending obstructions). This will promote a healthier and a more full canopied tree and limit crossing branches in addition to reducing the competition for moisture and nutrients. This new spacing guideline will also provide a pleasant visual effect by having a more uniformly planted street.
3. Spacing between flowering/ small trees will be standardized to a minimum of (20' feet, +/-) for city streets and (15-20' feet) for median island planting to achieve a more impressive appearance of a tree grove.
4. Trees will be planted no closer than (7) feet to any drop-curb/driveway and will promote a healthier root system.
5. New tree pits will be a standardized at (4' x 8') where permissible pending width of existing sidewalks and planting areas. By utilizing a larger tree pit, additional storm water run-off will be captured which will lessen storm water impact on the infrastructure and recharge groundwater reserves.
6. Several smaller trees have been selected utilizing the 'PSE & G - Wire Friendly' tree list which meet the criteria for of 'tolerant shoreline-beach conditions'. These smaller shade and ornamental trees are intended to lessen the impact of storm related power outages and power line maintenance pruning. A \$50.00 credit per tree may apply from PSE & G.

Trees with a 'columnar-upright' growing habit (approximate 4-6' wide) such as Golden Rain Tree Fastigiata and Amanogawa Cherry will be utilized in the Presidential and canal streets that have narrow planting strips approximately (2' feet, +/-) wide. This 'columnar-upright' growing habit will also help prevent truck and car damage to branching that would normally extend into parking and traffic lanes.



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SUMMARY OF WORK:

STREET TREE PLANTING TO GENERALLY INCLUDE THE FOLLOWING:

1. REMOVAL OF PORTIONS OF PAVEMENT FOR NEW OR ENLARGED TREE PITS.
2. SAWCUTTING AND EXCAVATING AS NECESSARY TO EFFECT THE NEW WORK.
3. PLANT STREET TREES.
4. INSTALL PLANT MATERIAL IN LAWN AREAS.

GENERAL NOTES:

THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. EXCEPTIONS ARE SPECIFICALLY NOTED ON EACH DRAWING.

1. ALL DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF THE SITE. THE ILLUSTRATIONS ARE INTENDED AS A SITE-SPECIFIC EXAMPLES APPLICABLE TO ALL SIMILAR STREETS.
2. INFORMATION SHOWING EXISTING UTILITIES IS INCOMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS AND TO PROTECT ANY UTILITY TO REMAIN THAT ARE ENCOUNTERED. CONTRACTOR IS REQUIRED TO CONTACT ONE-CALL FOR EACH TREE LOCATION.
3. ANY DISCREPANCIES OR ERRORS IN THE PLANS, SPECIFICATIONS, AND DETAILS MUST BE REPORTED TO THE ARCHITECT AT ONCE. NO CHANGES IN THE DRAWINGS ARE PERMITTED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OF RECORD.
4. THE CONTRACTOR WILL BE RESPONSIBLE TO RESTORE ANY PORTIONS OF THE EXISTING WORK DAMAGED DURING THE CONTRACTOR'S OPERATION.
5. COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
6. THE CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE WORK OR TO MAKE ITS PARTS FIT TOGETHER PROPERLY WITHOUT COMPROMISING THE QUALITY OF THE WORK.

7. IF NECESSARY, SIDEWALKS AND STREET CURBS SHALL BE REBUILT IN ACCORDANCE WITH THE REQUIREMENTS OF THE DEPARTMENT OF HIGHWAYS.

8. NEW TREE PLANTING TO BE APPROVED BY THE CITY OF LONG BEACH.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND OFF ALIGNMENTS ACCORDING TO CODES AND STANDARDS OF GOOD PRACTICE.

10. THE CONTRACTOR SHALL KEEP WORK SITE FREE FROM DEBRIS AND ACCUMULATED REFUSE, AND SHALL HAVE SOLE RESPONSIBILITY FOR PROTECTING ALL DANGEROUS AREAS FROM ENTRY BY UNAUTHORIZED PARTIES. SITE SHALL BE LEFT BROOM CLEAN AT THE END OF EACH WORKING DAY.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE STRUCTURAL STABILITY, UNDERPINNING AND SHORING OF ADJACENT PROPERTIES AND BUILDINGS AS PER CODES AND METHODS OF GOOD PRACTICE.

12. NOTIFICATION OF ADJACENT PROPERTY OWNERS: FIVE DAYS PRIOR NOTICE SHALL BE GIVEN TO THE OWNER OF EACH ADJOINING LOT AFFECTED BY EARTHWORK OR DEMOLITION WORK.

13. THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED INSPECTIONS, PERMIT(S), FEES, LICENSE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.

14. ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DOCUMENTS.

SITE SAFETY NOTES:

1. THE CONTRACTOR SHALL SUBMIT TO THE CITY OF LONG BEACH FOR REVIEW A SITE SAFETY PLAN(S) PREPARED AND SIGNED BY A NEW YORK STATE LICENSED SITE SAFETY MANAGER. THE PLAN(S) SHALL BE COMPLETE, REFLECTING THE ENTIRE SITE AND SHALL SHOW ANY PHASED PROTECTION. THE SITE SAFETY PLAN(S) SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO NOTES, FENCES, EGRESS, ANY POTENTIAL INTERACTION WITH THE GENERAL PUBLIC AND EXPOSURE TO THE CONSTRUCTION PROCESS.

2. NO WORK TO PROCEED UNTIL SITE SAFETY PLANS ARE APPROVED BY THE CITY OF LONG BEACH.



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TREE REPLANTING MASTER PLAN

REBUILDING STRONGER SMARTER SAFER

The City of Long Beach
1 West Chester Street
Long Beach, NY 11561



The blocks of Park Avenue with parking lots call for detailed design. This plan does not attempt to address the blocks fitting this description.

- Trees for "Canal" and "President" Streets
- 'Frans Fontaine' European Hornbeam
 - 'Mushashino' Zelkova
 - 'Kindred Spirit' Oak
 - 'Princeton Sentry' Ginkgo
 - Fastigiata Golden Rain Tree
 - Golden Rain Tree
 - Columnar Sargent Cherry
 - Amanogawa Cherry

On the "Canal" streets, the narrow tree planting strips call for greater consideration in species selection. Columnar trees were used to lessen the problem of branches growing into the path of vehicles. Proper pruning will be key to maintaining optimum tree health. Branches need to be kept from growing into the vehicle zone. Property owners can plant larger shade trees on their property where it extends to the canal-frontage locations since growing conditions are better there. Property owners may choose from the approved street tree list for species selection for plantings on their own property and are encouraged to consider the mature size of the tree being planted. Other options for the planting strip are salt-tolerant low shrubs, ornamental grasses and perennials. This planting strategy is also intended to reduce runoff.



- Shade Trees**
- Red Maple
 - European Hornbeam
 - Ginkgo
 - Honeylocust
 - Sophora
 - Elm
 - Linden
 - Zelkova
 - Wireless Zelkova
 - Scarlet Oak
 - Swamp White Oak
 - Columnar English Oak
 - Willow Oak
 - Bald Cypress (median only)
 - Jap. Black Pine (median only)
- Small/Ornamental Trees**
- Amur Maple
 - Hedge Maple
 - Japanese Tree Lilac
 - Golden Rain Tree
 - Canada Red Chokecherry
 - Columnar Sargent Cherry
 - Amanogawa Cherry
 - Kwanzan Cherry
 - Thornless Hawthorn

Note: Small/Ornamental trees are to be planted at the ends of the blocks on the east-west streets where they intersect the north-south streets. As conditions allow, they are to be planted 8 per block, which is 4 at each end, 2 on each side. Refer to the Intersection Planting Plan for species selection. These trees can also be planted in medians in blocks that are more protected from wind and salt spray. They are also to be used below utility lines.

For the "President" streets, the narrow tree planting strips call for greater consideration in species selection. Columnar trees were used to lessen the problem of branches growing into the path of vehicles. Proper pruning will be key to maintaining optimum tree health. Branches need to be kept from growing into the vehicle zone. Property owners may choose from the approved street tree list for species selection for plantings on their own property and are encouraged to consider the mature size of the tree being planted.

Street trees for Broadway and Shore Road call for special consideration of planting sites. Limit plantings to locations where wind and salt spray are blocked by tall buildings. Planting the Broadway median with trees is not advisable. Also note that Shore Road has utility lines on the south side for its entire length. As Hollywood Junipers have proven successful in the past, their use in exposed locations and medians should be continued. Ornamental grasses in planting pits and the medians are also an option.



PLANTING MAP - EAST
NOT TO SCALE"



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TREE REPLANTING MASTER PLAN

The City of Long Beach
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For the "State" streets, the planting of street trees is not possible due to the absence of planting strips. Property owners can plant trees on their property where space is sufficient. Property owners may choose from the approved street tree list for species selection for plantings on their own property and are encouraged to consider the mature size of the tree being planted. Other options for private property plantings are salt-tolerant low shrubs, ornamental grasses and perennials. This planting strategy is also intended to reduce runoff.

The blocks of Park Avenue with parking lots call for detailed design. This plan does not attempt to address the medians of blocks fitting this description.



Shade Trees

- Red Maple
- European Hornbeam
- Ginkgo
- Honeylocust
- Sophora
- Elm
- - - Linden
- - - Zelkova
- - - Wireless Zelkova
- - - Scarlet Oak
- - - Swamp White Oak
- - - Columnar English Oak
- - - Willow Oak
- - - Bald Cypress (median only)
- - - Jap. Black Pine (median only)

Small/Ornamental Trees

- - - Amur Maple
- - - Hedge Maple
- - - Japanese Tree Lilac
- - - Golden Rain Tree
- - - Canada Red Chokecherry
- - - Columnar Sargent Cherry
- - - Amanogawa Cherry
- - - Kwanzan Cherry
- - - Thornless Hawthorn

Note: Small/Ornamental trees are to be planted at the ends of the blocks on the east-west streets where they intersect the north-south streets. As conditions allow, they are to be planted 8 per block, which is 4 at each end, 2 on each side. Refer to the Intersection Planting Plan for species location. These trees can also be planted in medians in blocks that are more protected from wind and salt spray. They are also to be used below utility lines. For the north-south streets one type of small tree should be chosen for the entire length of the street.

Due to the proximity of the beach, with high winds and salt spray, and the presence of underground utilities in the median, the planting of street trees in these blocks of W. Broadway is not recommended. As Hollywood Junipers have proven successful in the past, their use in exposed locations and medians should be continued. Ornamental grasses are also an option for tree pits and the median.



PLANTING MAP - WEST
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 - European Hornbeam
 - Ginkgo
 - Honeylocust
 - Sophora
 - Elm
 - Linden
 - Zelkova
 - Scarlet Oak
 - Swamp White Oak
 - Columnar English Oak
 - Willow Oak
 - Bald Cypress (median only)
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- Small/Ornamental Trees**
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 - Kwanzan Cherry
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Due to the proximity of the beach, with high winds and salt spray, and the presence of underground utilities in the median, the planting of street trees in these blocks of W. Broadway is not recommended. As Hollywood Junipers have proven successful in the past, their use in exposed locations and medians should be continued. Ornamental grasses are also an option for tree pits and the median.

New potential street tree planting locations on the commercial blocks of W. Beech are at parking lots with street frontage. A planting strip could be located between the sidewalk and the lot and planted with ornamental trees and low shrubs, grasses or perennials. This strategy would also have the effect of reducing impervious surface area.



PLANTING MAP - WEST
NOT TO SCALE"

TREE REPLANTING MASTER PLAN



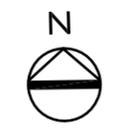
City of Long Beach Street Tree Master Plan, Spring Foliage/Flower Color

- Trees for "Canal" and "President" Streets**
- 'Frans Fontaine' European Hornbeam
 - 'Mushashino' Zelkova
 - 'Kindred Spirit' Oak
 - 'Princeton Sentry' Ginkgo
 - 'Golden Candle' Golden Rain Tree (Summer Flowers)
 - Columnar Sargent Cherry
 - Amanogawa Cherry

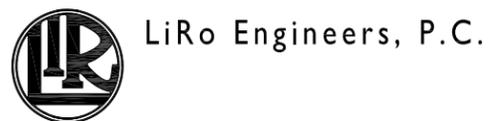


- Shade Trees**
- Red Maple
 - European Hornbeam
 - Ginkgo
 - Honeylocust
 - Sophora
 - Elm
 - Linden
 - Zelkova
 - Scarlet Oak
 - Swamp White Oak
 - Columnar English Oak
 - Willow Oak
 - Bald Cypress (median only)
 - Jap. Black Pine (median only)

- Small/Ornamental Trees**
- Amur Maple
 - Hedge Maple
 - Japanese Tree Lilac (Spring Flowering)
 - Golden Rain Tree (Summer Flowering)
 - Canada Red Chokecherry (Spring Flowering)
 - Columnar Sargent Cherry (Spring Flowering)
 - Amanogawa Cherry (Spring Flowering)
 - Kwanzan Cherry (Spring Flowering)
 - Thornless Hawthorn (Spring Flowering)



PLANTING MAP (EAST) - SPRING COLORS
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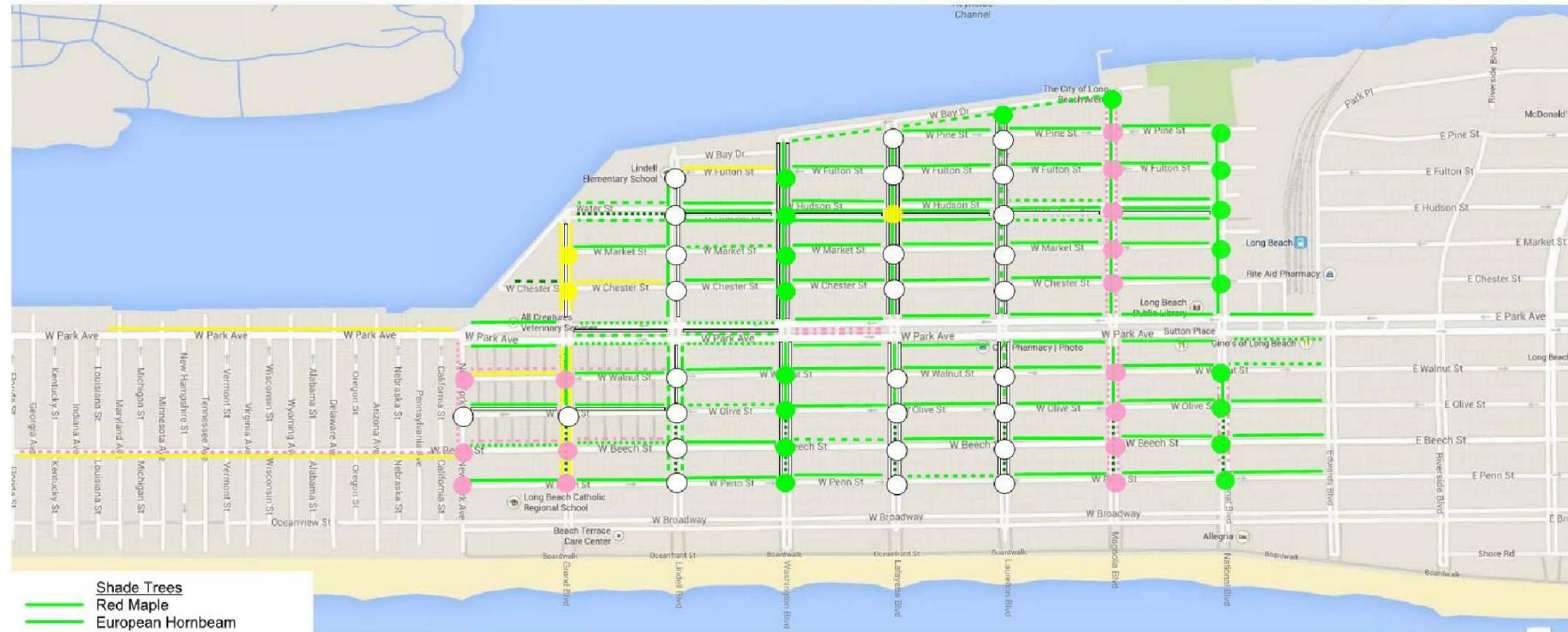
TREE REPLANTING MASTER PLAN

REBUILDING STRONGER SMARTER SAFER

The City of Long Beach
1 West Chester Street
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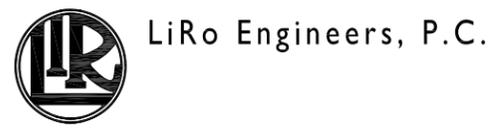
City of Long Beach Street Tree Master Plan, Spring Foliage/Flower Color



- | | | | |
|--|-------------------------------|--|--|
| | Shade Trees | | Small/Ornamental Trees |
| | Red Maple | | Amur Maple |
| | European Hornbeam | | Hedge Maple |
| | Ginkgo | | Japanese Tree Lilac (Spring Flowering) |
| | Honeylocust | | Golden Rain Tree (Summer Flowering) |
| | Sophora | | Canada Red Chokecherry (Spring Flowering) |
| | Elm | | Columnar Sargent Cherry (Spring Flowering) |
| | Linden | | Amanogawa Cherry (Spring Flowering) |
| | Zelkova | | Kwanzan Cherry (Spring Flowering) |
| | Scarlet Oak | | Thornless Hawthorn (Spring Flowering) |
| | Swamp White Oak | | |
| | Columnar English Oak | | |
| | Willow Oak | | |
| | Bald Cypress (median only) | | |
| | Jap. Black Pine (median only) | | |



PLANTING MAP (WEST) - SPRING COLORS
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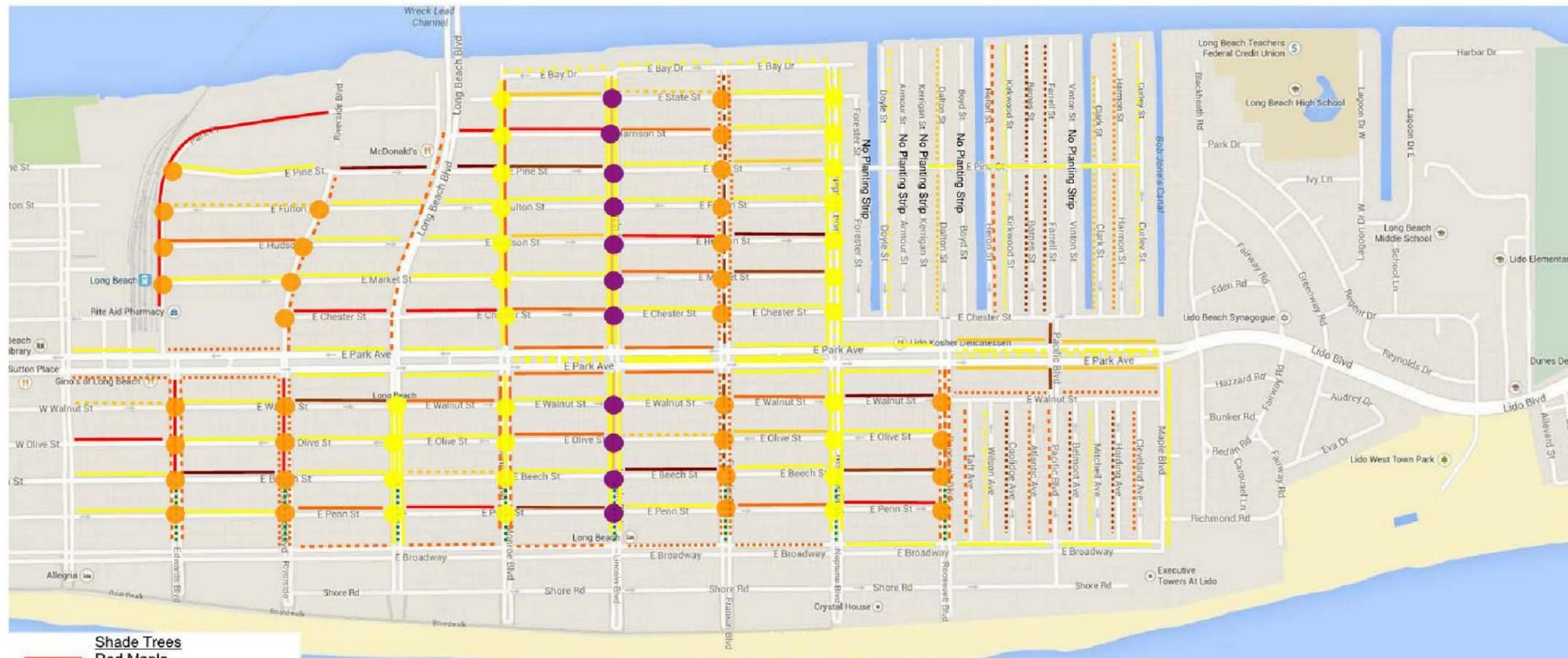
TREE REPLANTING MASTER PLAN

REBUILDING STRONGER SMARTER SAFER

The City of Long Beach
1 West Chester Street
Long Beach, NY 11561



City of Long Beach Street Tree Master Plan, Fall Color



- Shade Trees**
- Red Maple
 - European Hornbeam
 - Ginkgo
 - Honeylocust
 - Sophora
 - Elm
 - Linden
 - Zelkova
 - Wireless Zelkova
 - Scarlet Oak
 - Swamp White Oak
 - Columnar English Oak
 - Willow Oak
 - Bald Cypress (median only)
 - Jap. Black Pine (median only)

- Small/Ornamental Trees**
- Amur Maple
 - Hedge Maple
 - Japanese Tree Lilac
 - Golden Rain Tree
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 - Columnar Sargent Cherry
 - Amanogawa Cherry
 - Kwanzan Cherry
 - Thornless Hawthorn

- Trees for "Canal" and "President" Streets**
- 'Frans Fontaine' European Hornbeam
 - 'Mushashino' Zelkova
 - 'Kindred Spirit' Oak
 - 'Princeton Sentry' Ginkgo
 - 'Golden Candle' Golden Rain Tree
 - Columnar Sargent Cherry
 - Amanogawa Cherry

Note: This graphic is not intended to accurately depict the fall foliage colors of the species called for by the plan. Some trees will exhibit a range of colors through the period of fall color change. For more accurate representation of fall coloring, an online image search or the consultation of tree guides with color photos is advised.



PLANTING MAP (EAST) - FALL COLORS
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TREE REPLANTING MASTER PLAN

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City of Long Beach Street Tree Master Plan, Fall Color



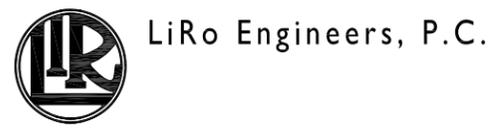
- Shade Trees**
- Red Maple
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 - Honeylocust
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 - Elm
 - Linden
 - Zelkova
 - Wireless Zelkova
 - Scarlet Oak
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 - Columnar English Oak
 - Willow Oak
 - Bald Cypress (median only)

- Small/Ornamental Trees**
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PLANTING MAP (WEST) - FALL COLORS
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City of Long Beach Street Tree Master Plan Intersections



Small/Ornamental Trees At Intersections

- | | |
|---|---|
|  Amur Maple |  Choke Cherry |
|  Hedge Maple |  Columnar Sargent Cherry |
|  Japanese Tree Lilac |  Amanogawa Cherry |
|  Golden Rain Tree |  Kwanzan Cherry |



PLANTING MAP - INTERSECTIONS EAST
NOT TO SCALE"



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TREE REPLANTING MASTER PLAN

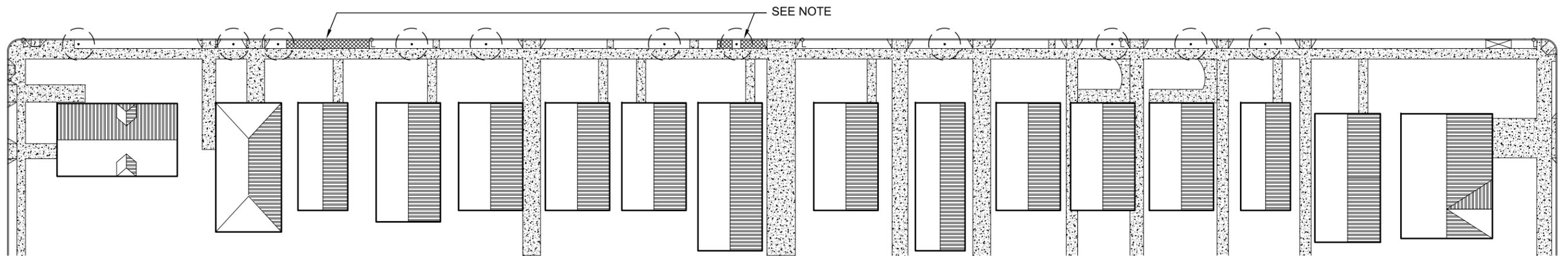
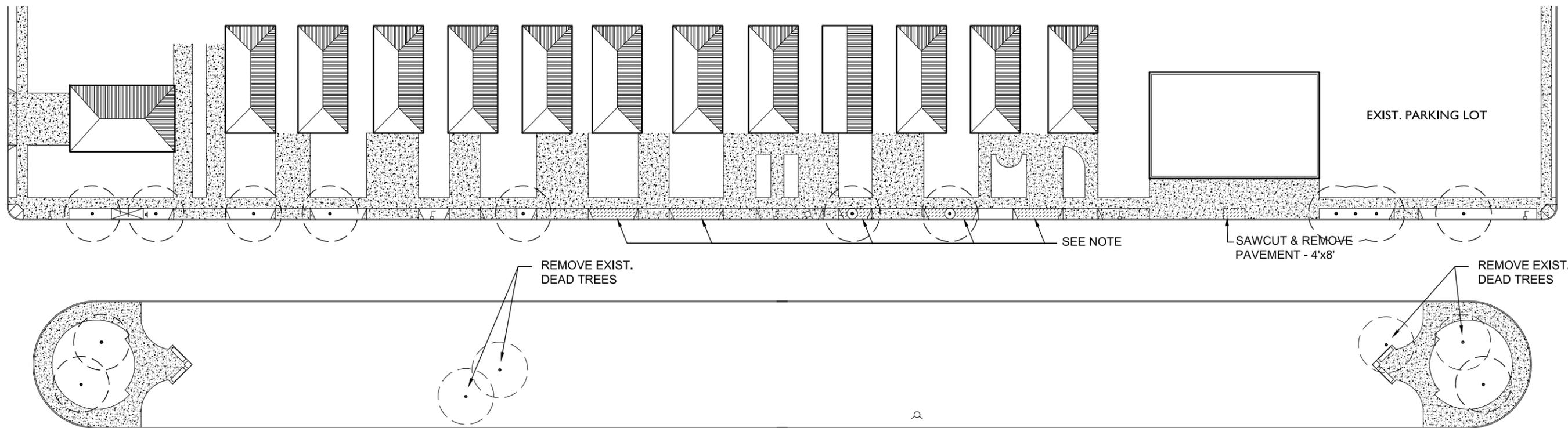
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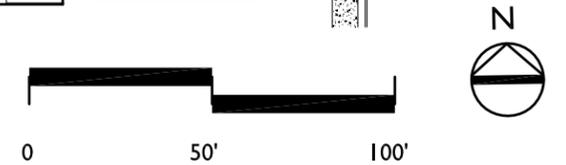


LEGEND:

- | | | | |
|-----------------------|--|-------------------------------|--|
| STREET CURB | | EXISTING VEHICULAR DROP CURB | |
| EXISTING PAVEMENT | | EXISTING PEDESTRIAN DROP CURB | |
| EXISTING TRAFFIC SIGN | | EXISTING TREE | |
| EXISTING UTILITY POLE | | EXISTING BUS STOP | |
| EXISTING FIRE HYDRANT | | EXISTING BENCH | |
| EXISTING LIGHT POLE | | | |

NOTE:

SAWCUT & REMOVE EXIST. PAVEMENT AND BASE MATERIAL TO ALLOW FOR NEW TREE PIT OR TO ENLARGE EXIST. TREE PIT. COORDINATE WITH PROPOSED PLANTING PLANS.



EAST / WEST STREET W/ MEDIAN - EXISTING CONDITIONS (TYPICAL LAYOUT)

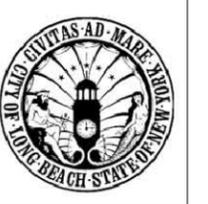
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TREE REPLANTING MASTER PLAN

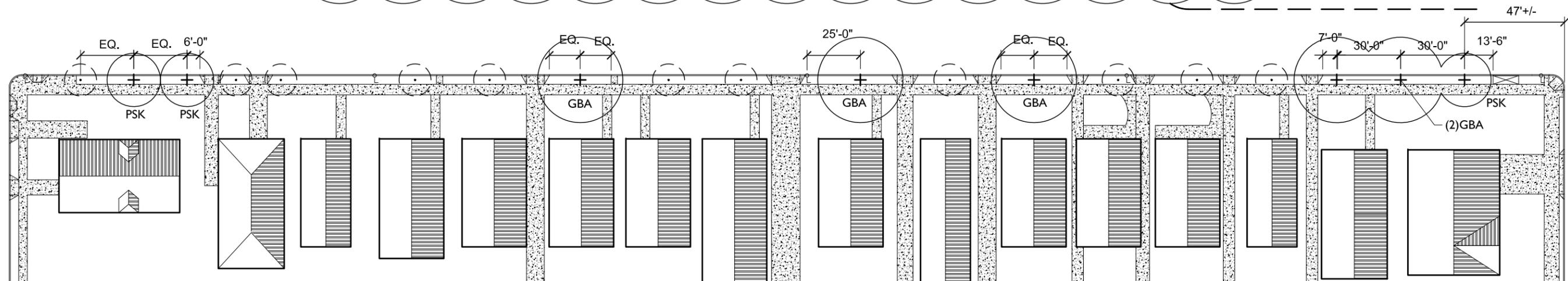
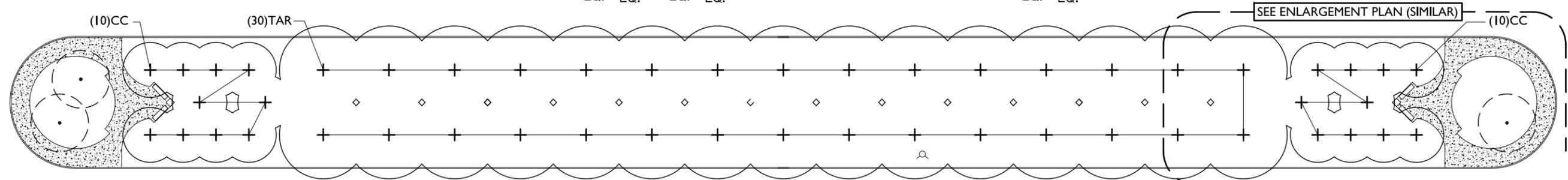
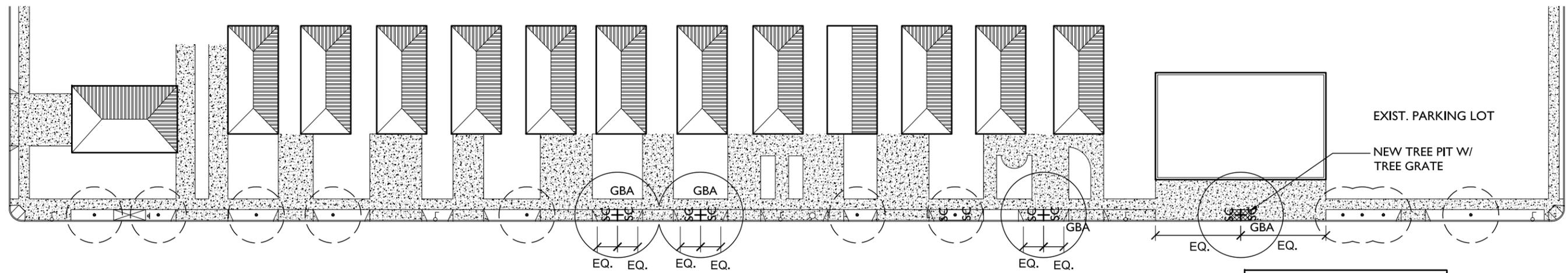
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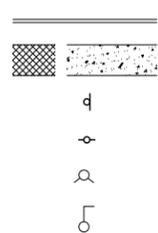
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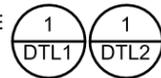
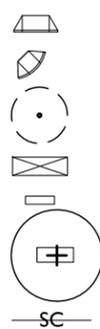


LEGEND:

- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE



- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING TREE
- EXISTING BUS STOP
- EXISTING BENCH
- PROPOSED TREE PLANTING
- SAWCUT



EAST / WEST STREET W/ MEDIAN - PLANTING PLAN WITH EXISTING TREES (TYPICAL LAYOUT)

SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

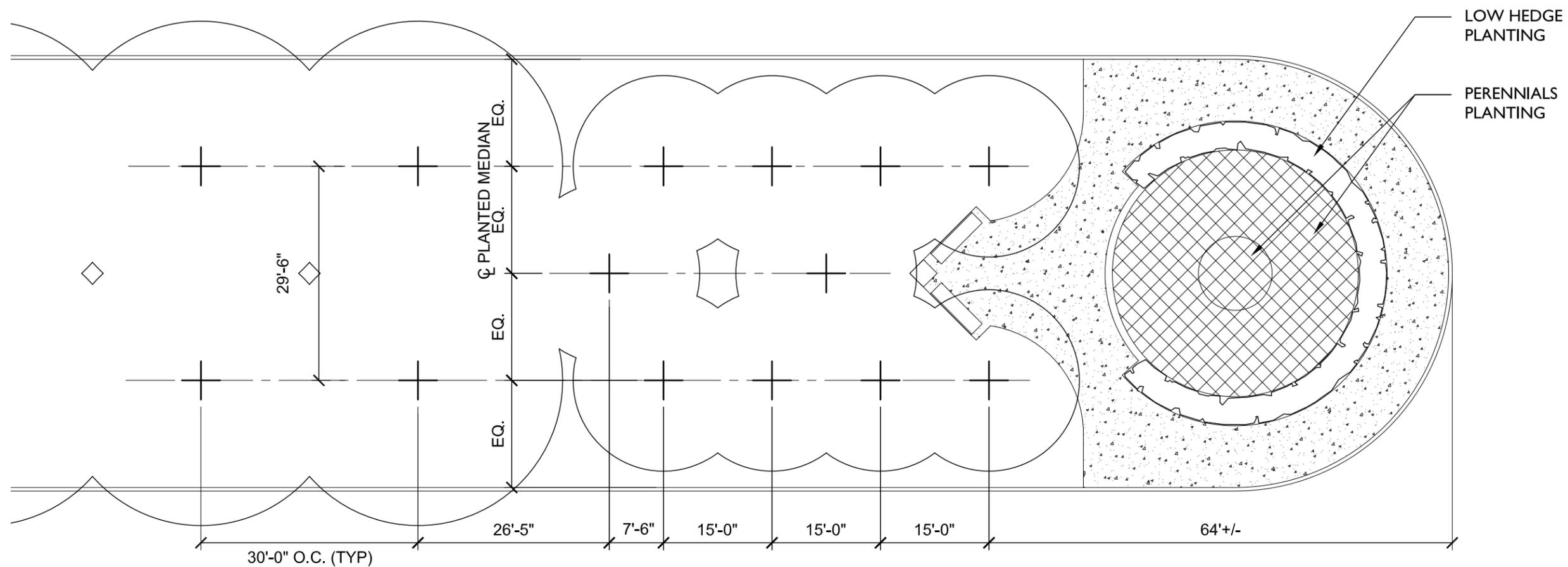
The City of Long Beach
1 West Chester Street
Long Beach, NY 11561



3 Aerial Way
Syosset, New York 11791
516.938.5476 [P] 516.937.5421 [F]

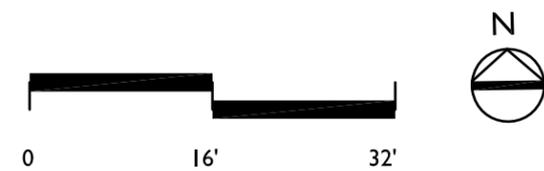
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**EAST / WEST STREET W/ MEDIAN - PLANTING PLAN
ENLARGEMENT (TYPICAL LAYOUT)**

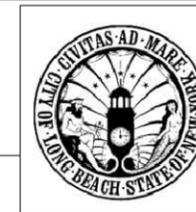
SCALE: 1/16"=1'-0"



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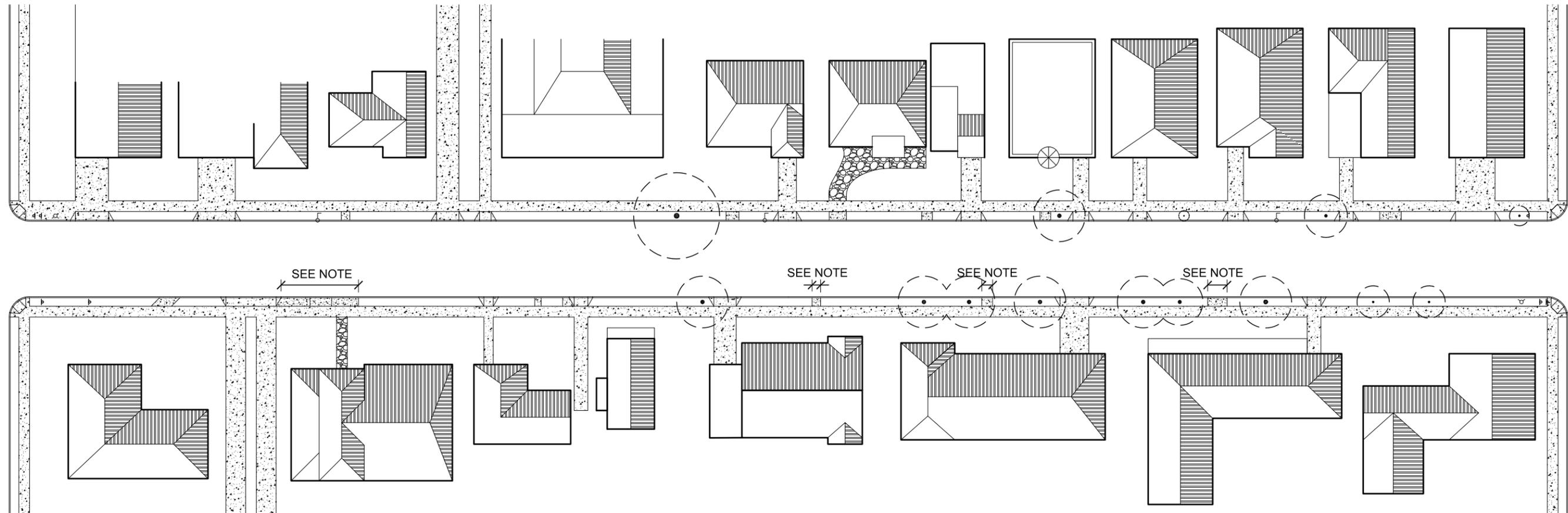
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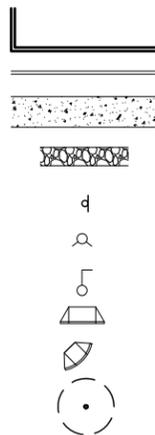
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LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING SIDEWALK
- EXISTING STONE PAVING
- EXISTING TRAFFIC SIGN
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING PEDESTRIAN DROP CURB
- EXISTING VEHICULAR DROP CURB
- EXISTING TREE



NOTE:

SAWCUT & REMOVE PORTION OR ENTIRE SECTION OF PAVEMENT, AND BASE MATERIAL TO ALLOW FOR NEW TREE PLANTING. REFER TO PLANTING PLANS.



**EAST / WEST STREET - EXISTING CONDITIONS
(TYPICAL LAYOUT)**

SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

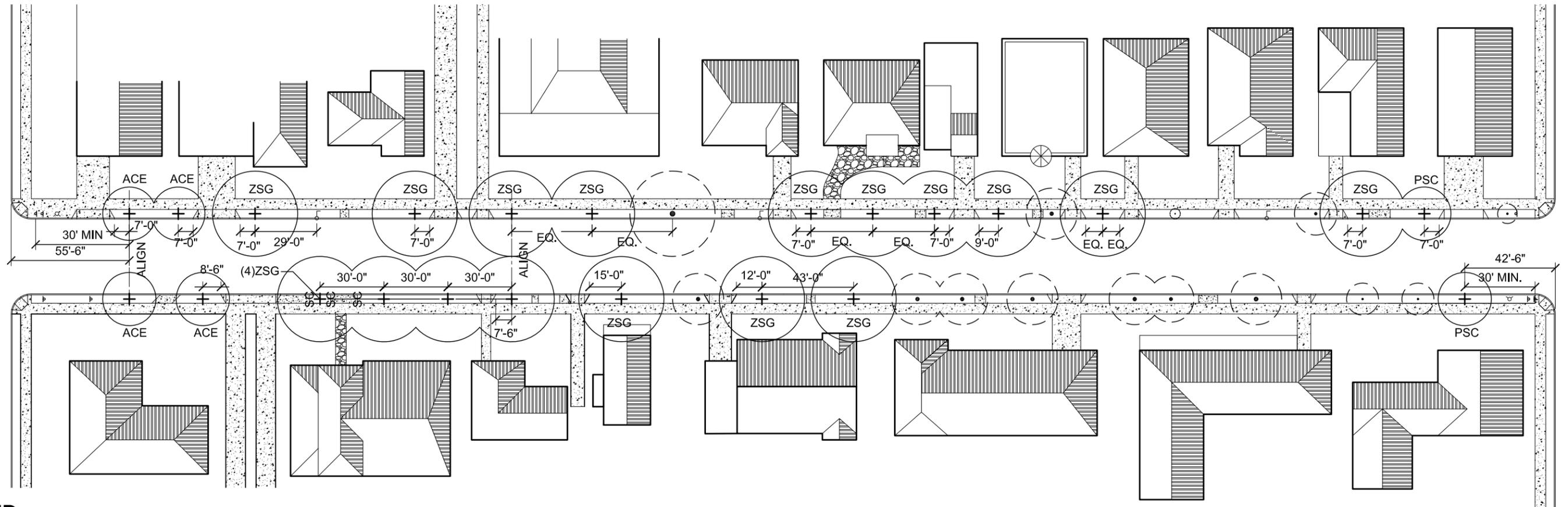
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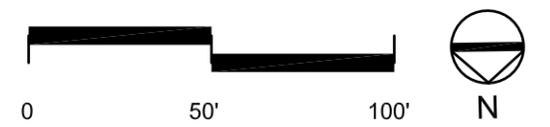


LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING SIDEWALK
- EXISTING STONE PAVING
- EXISTING TRAFFIC SIGN
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING PEDESTRIAN DROP CURB
- EXISTING VEHICULAR DROP CURB
- EXISTING TREE
- PROPOSED TREE IN NEW TREE PIT. SEE NOTE 1 &
- SAWCUT

NOTES:

1. SAWCUT & REMOVE EXIST. CONCRETE PAVEMENT TO ALLOW FOR NEW TREE PIT - 4'x8'. SEE SPECS &
2. CENTER NEW TREE PIT ON NEW OR EXIST. TREES.



EAST / WEST STREET - PLANTING PLAN WITH EXISTING TREES (TYPICAL LAYOUT)

SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

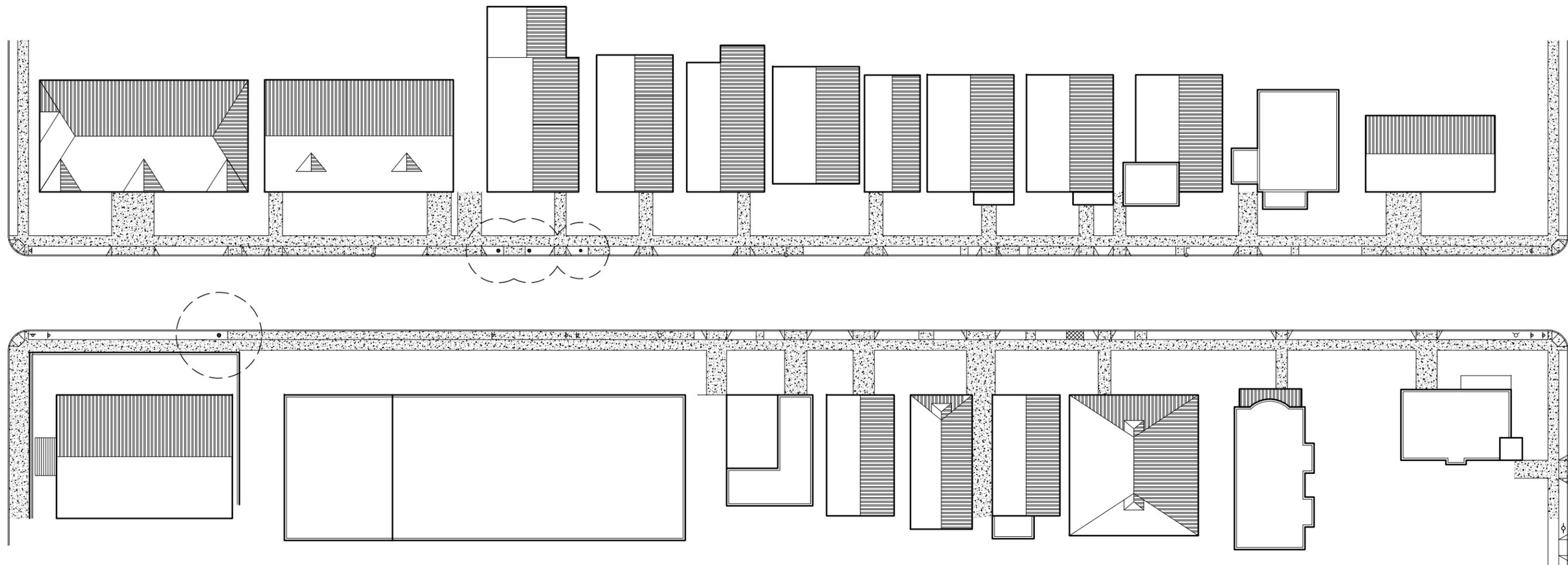
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LEGEND:

- EXISTING BUILDING 
- STREET CURB 
- EXISTING PAVEMENT 
- EXISTING TRAFFIC SIGN 
- EXISTING UTILITY POLE 
- EXISTING FIRE HYDRANT 
- EXISTING LIGHT POLE 
- EXISTING VEHICULAR DROP CURB 
- EXISTING PEDESTRIAN DROP CURB 
- EXISTING TREE 

**EAST / WEST STREET - EXISTING CONDITIONS
(TYPICAL LAYOUT)**

SCALE: 1"=50'-0"



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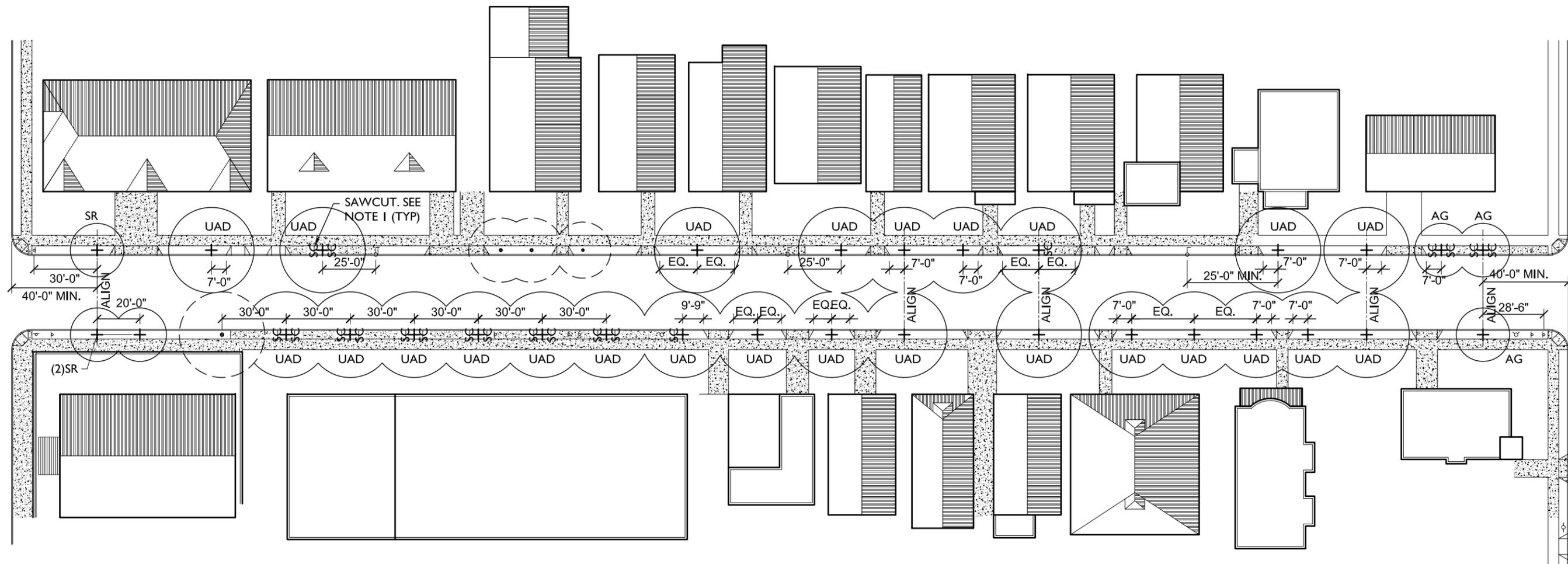
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TREE REPLANTING MASTER PLAN

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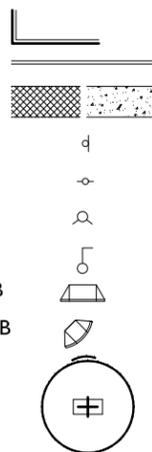
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LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB



NOTES:

1. SAWCUT & REMOVE EXIST. CONCRETE PAVEMENT TO ALLOW FOR NEW TREE PIT - 4'x8'. SEE SPECS & 
2. CENTER NEW TREE PIT ON NEW OR EXIST. TREES.



EAST / WEST STREET - PLANTING PLAN WITH EXISTING TREES (TYPICAL LAYOUT)

SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

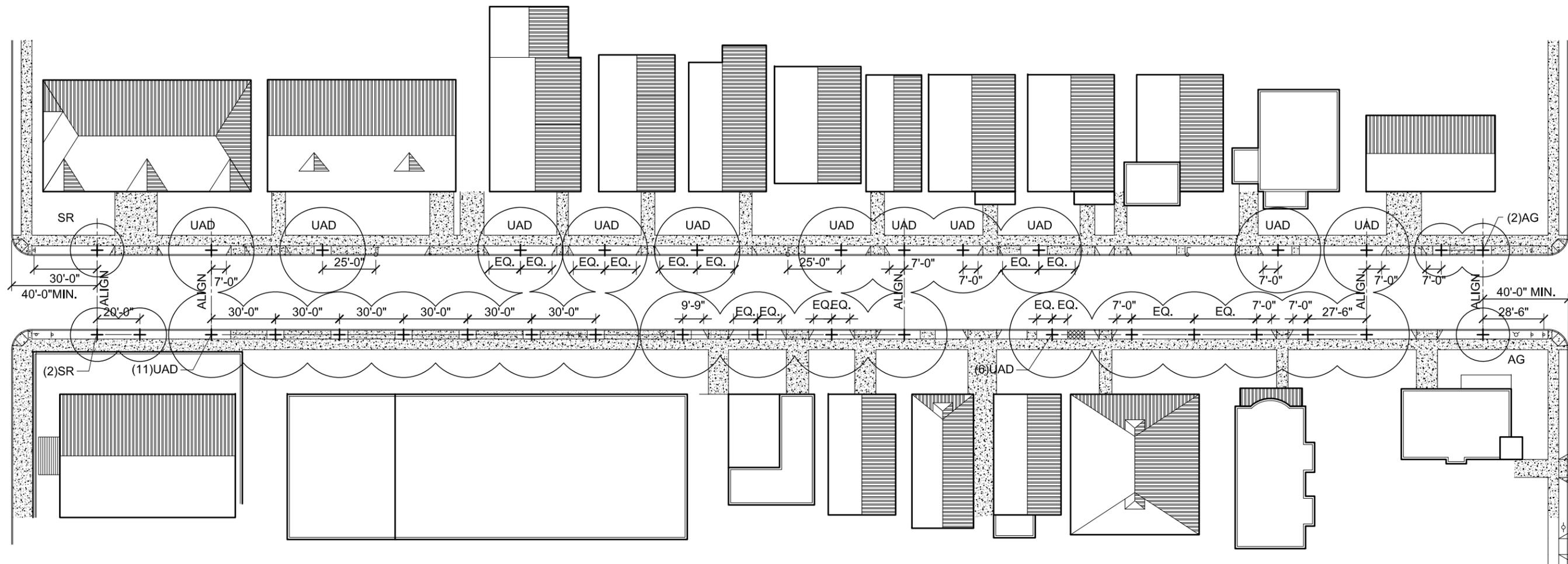
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LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB

- PROPOSED TREE IN NEW TREE PIT (TYP). SEE NOTE 1 &

NOTES:

1. SAWCUT & REMOVE EXIST. CONCRETE PAVEMENT TO ALLOW FOR NEW TREE PIT - 4'x8'. SEE SPECS &

2. CENTER NEW TREE PIT ON NEW OR EXIST. TREES.

**EAST / WEST STREET - PLANTING PLAN NEW TREES (UNIVERSAL)
(TYPICAL LAYOUT)**

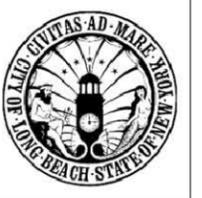
SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

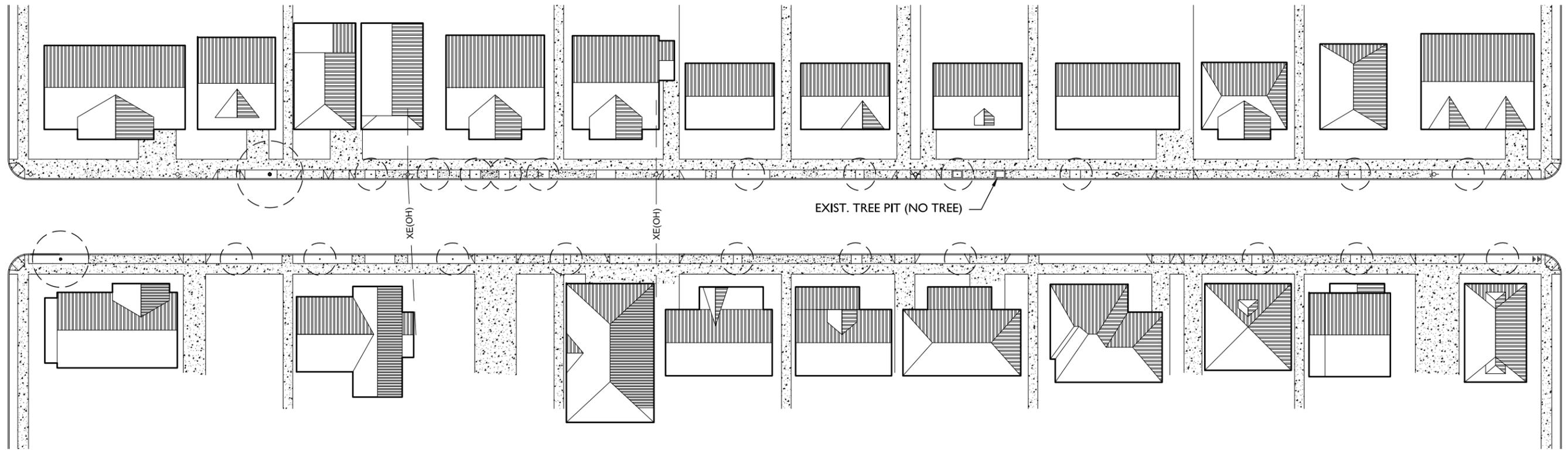
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LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING TREE
- EXISTING OVERHEAD ELECTRIC LINE



EAST / WEST STREET - EXISTING CONDITIONS
(TYPICAL LAYOUT)
 SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

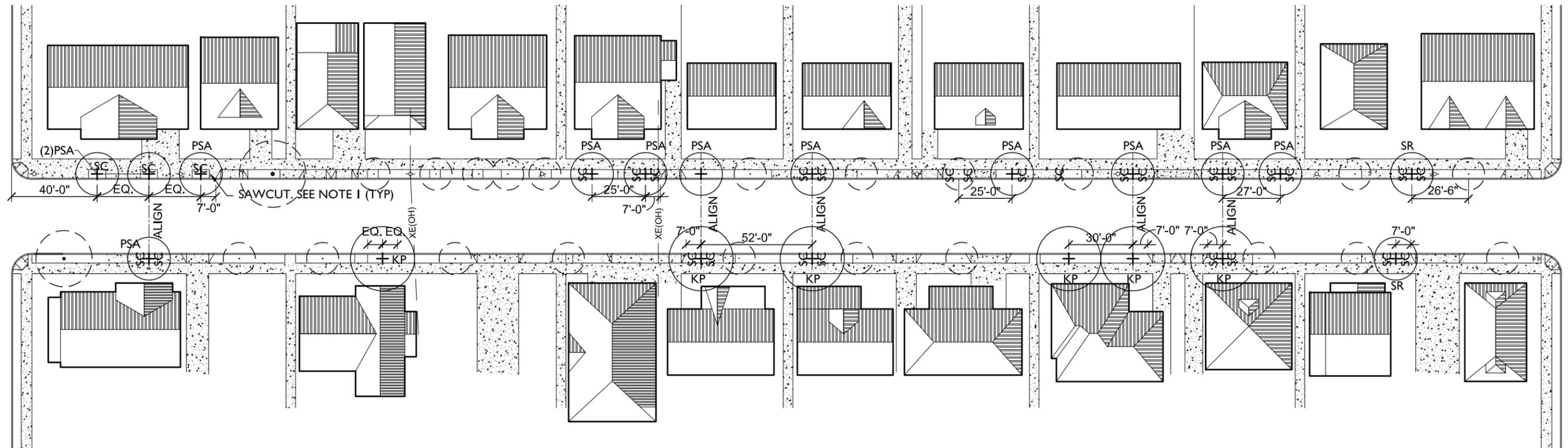
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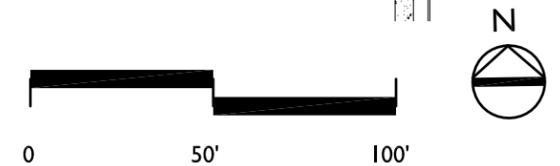


LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING OVERHEAD ELECTRIC LINE
- PROPOSED TREE IN NEW TREE PIT (TYP). SEE NOTE I &

NOTES:

1. SAWCUT & REMOVE EXIST. CONCRETE PAVEMENT TO ALLOW FOR NEW TREE PIT - 4'x8'. SEE SPECS &
2. CENTER NEW TREE PIT ON NEW OR EXIST. TREES.



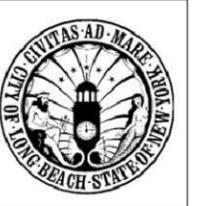
EAST / WEST STREET - PLANTING PLAN WITH EXISTING TREES (TYPICAL LAYOUT)
SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

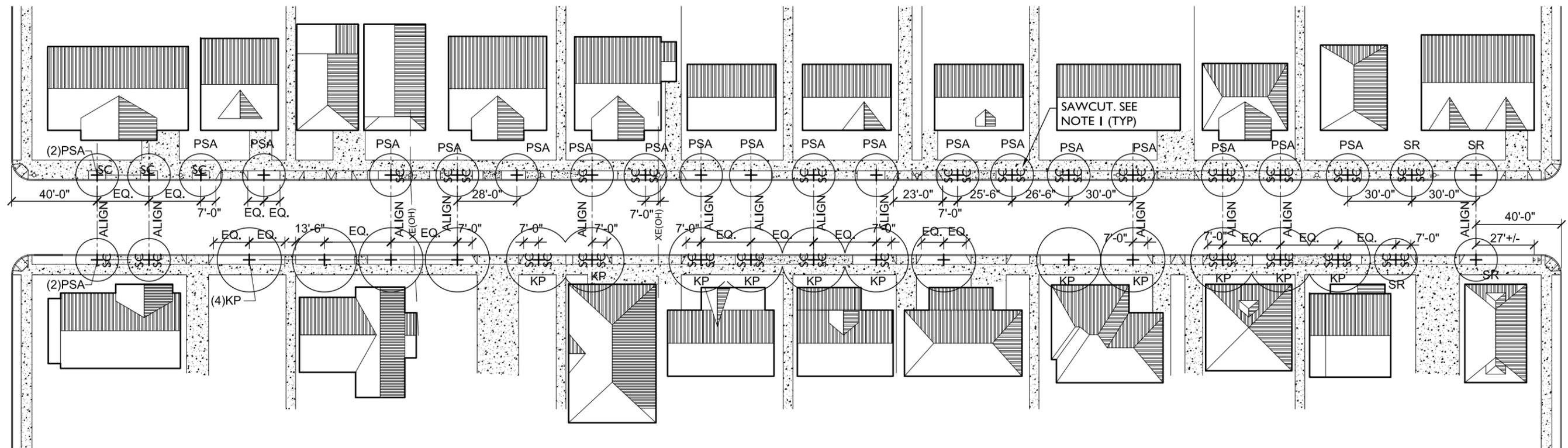
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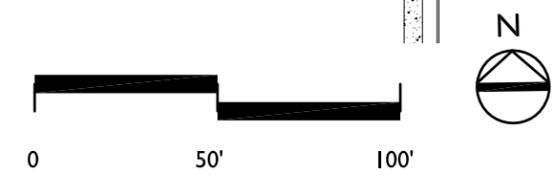


LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING OVERHEAD ELECTRIC LINE
- PROPOSED TREE IN NEW TREE PIT (TYP). SEE NOTE I &

NOTES:

1. SAWCUT & REMOVE EXIST. CONCRETE PAVEMENT TO ALLOW FOR NEW TREE PIT - 4'x8'. SEE SPECS &
2. CENTER NEW TREE PIT ON NEW OR EXIST. TREES.



**EAST / WEST STREET - PLANTING PLAN NEW TREES (UNIVERSAL)
(TYPICAL LAYOUT)**

SCALE: 1"=50'-0"



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TREE REPLANTING MASTER PLAN

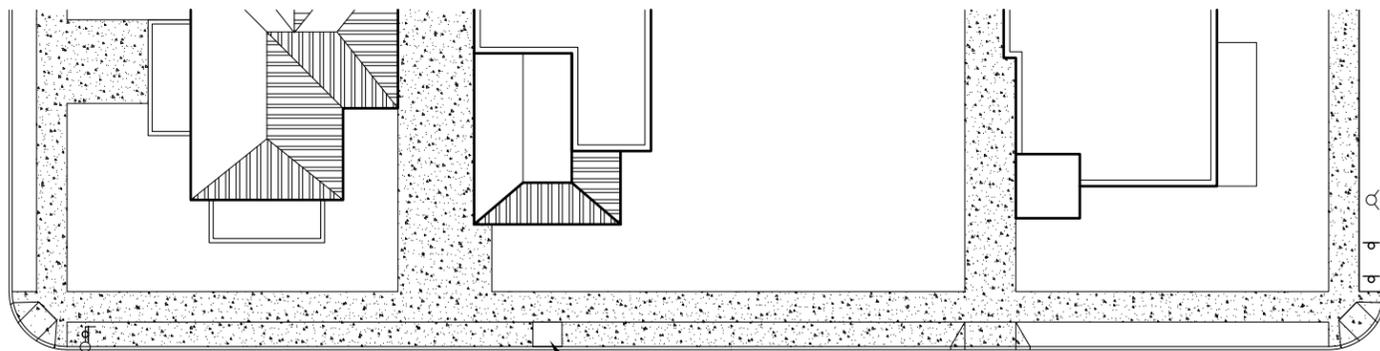
The City of Long Beach
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Long Beach, NY 11561



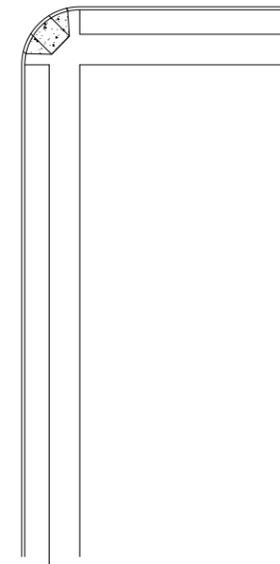
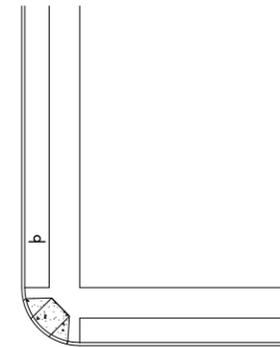
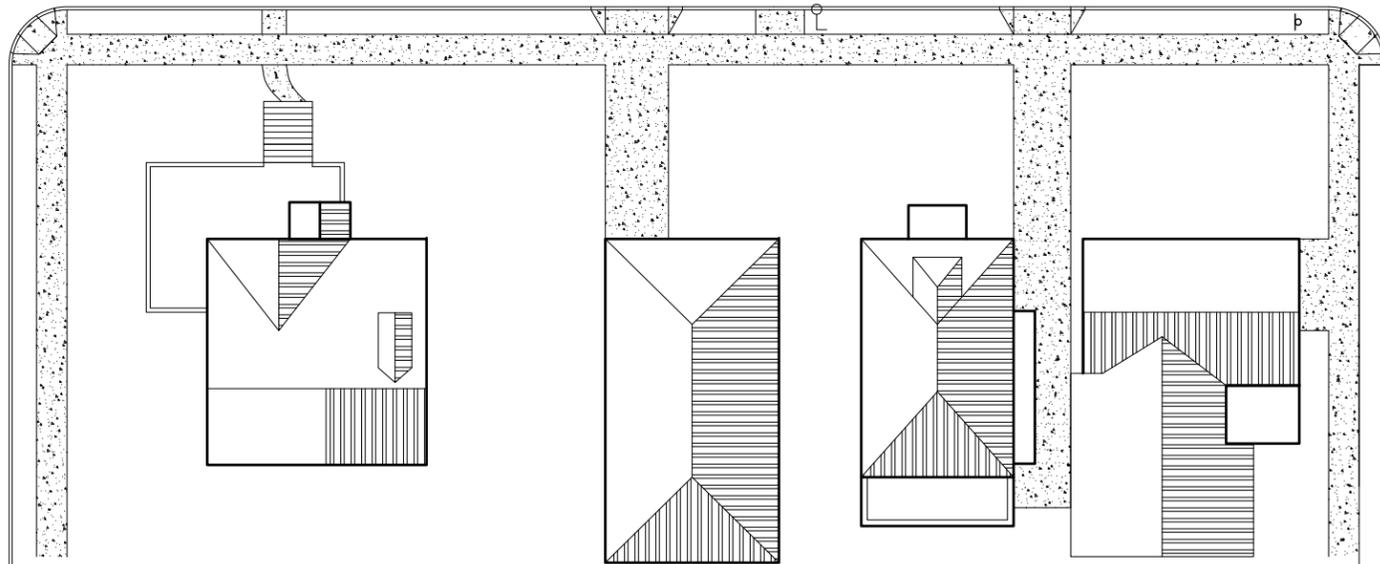
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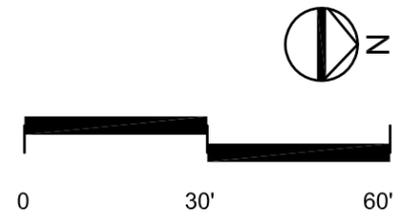


EXIST. EMPTY TREE PIT



LEGEND:

- EXISTING BUILDING
- STREET CURB
- STONE CURB
- EXISTING SIDEWALK
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING TREE
- EXISTING BENCH



**NORTH / SOUTH STREET W/ MEDIAN - EXISTING CONDITIONS
(TYPICAL LAYOUT)**

SCALE: 1"=30'-0"



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TREE REPLANTING MASTER PLAN

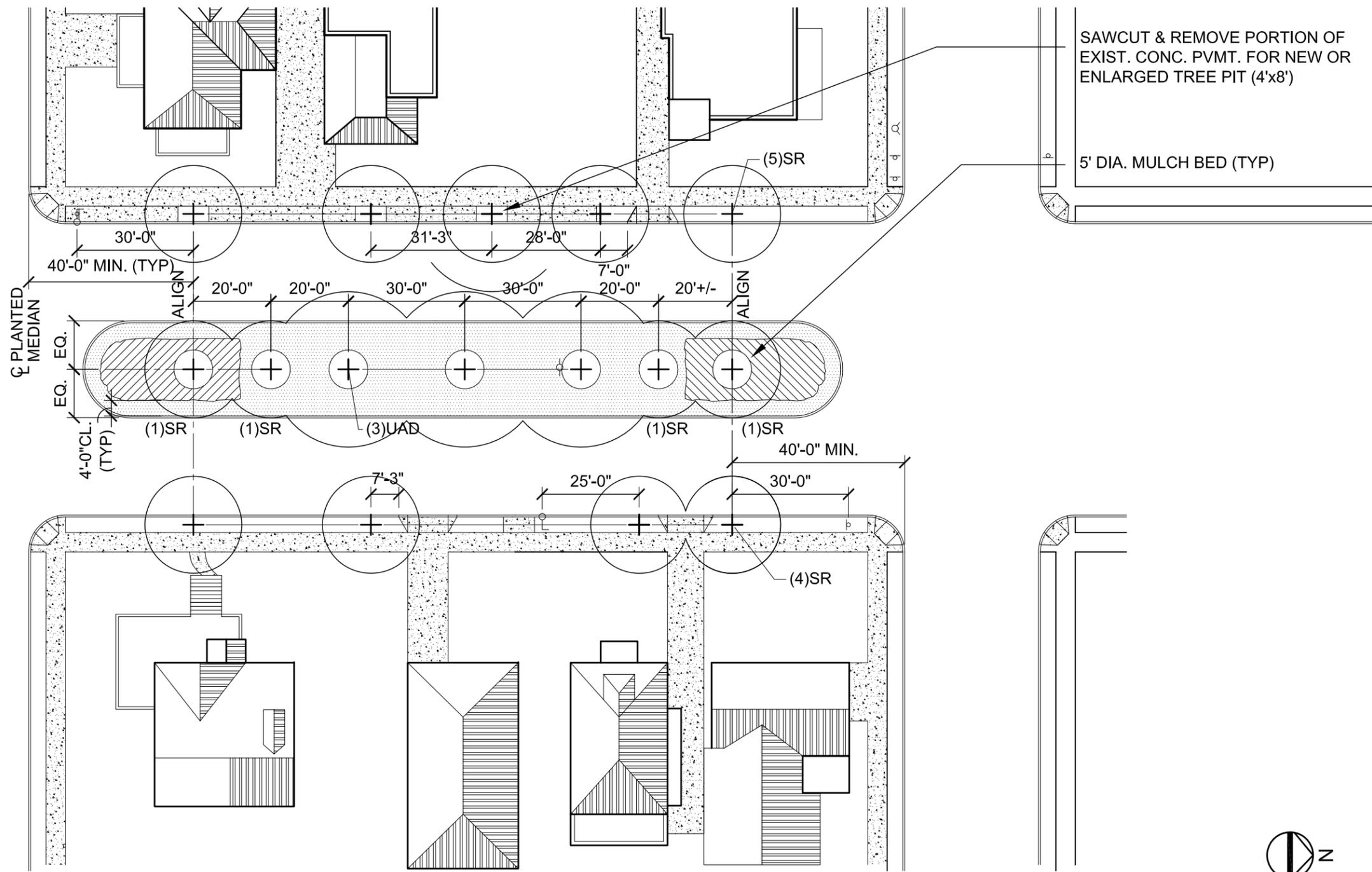
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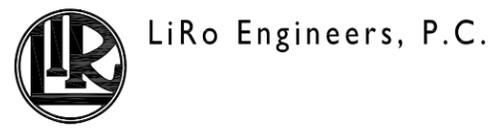
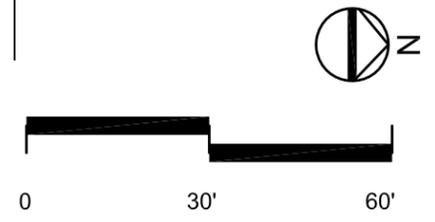


LEGEND:

- EXISTING BUILDING
- STREET CURB
- EXISTING SIDEWALK
- EXISTING TRAFFIC SIGN
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- PROPOSED TREE
- OPTIONAL PERENNIALS PLANTING (BY OTHERS)
- PROPOSED SEEDED AREA

**NORTH / SOUTH STREET W/ MEDIAN - PLANTING PLAN NEW TREES
(UNIVERSAL) (TYPICAL LAYOUT)**

SCALE: 1"=30'-0"



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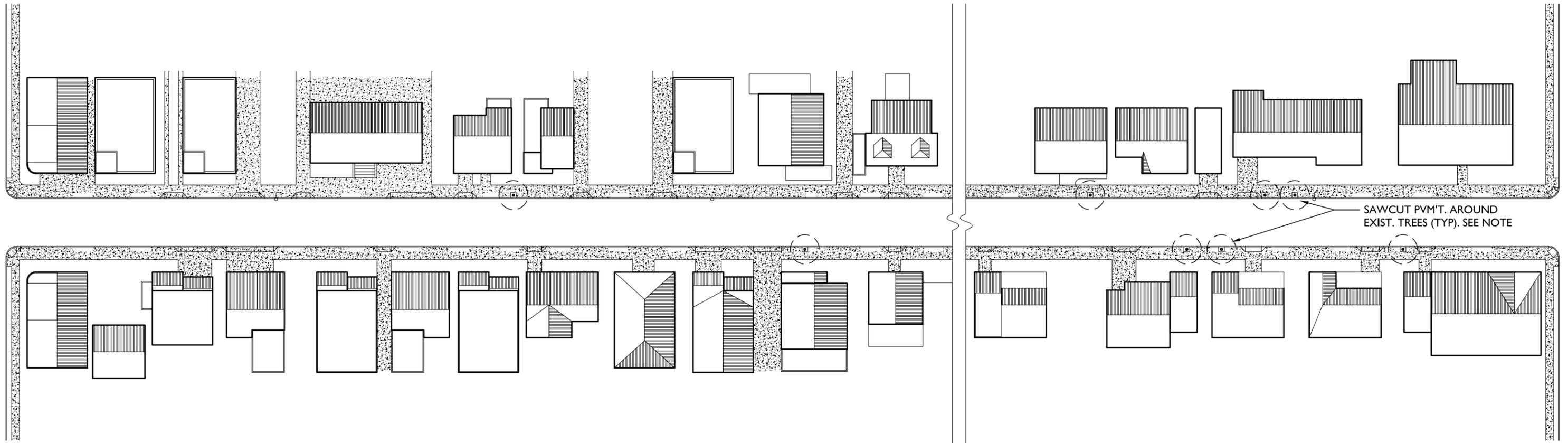
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**STREET TREE MASTER PLAN
WASHINGTON BLVD. (NORTH-SOUTH BLOCK)**

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The City of Long Beach
1 West Chester Street
Long Beach, NY 11561





LEGEND:

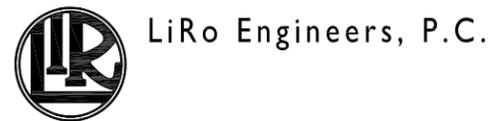
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING TREE

NOTE:

SAWCUT & REMOVE EXIST. PAVEMENT AND BASE MATERIAL TO ALLOW FOR NEW TREE PIT OR TO ENLARGE EXIST. TREE PIT. COORDINATE WITH PROPOSED PLANTING PLANS.

CANAL NEIGHBORHOOD & PRESIDENT'S STREETS - EXISTING CONDITIONS (TYPICAL LAYOUT)

SCALE: 1"=50'-0"



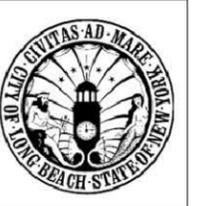
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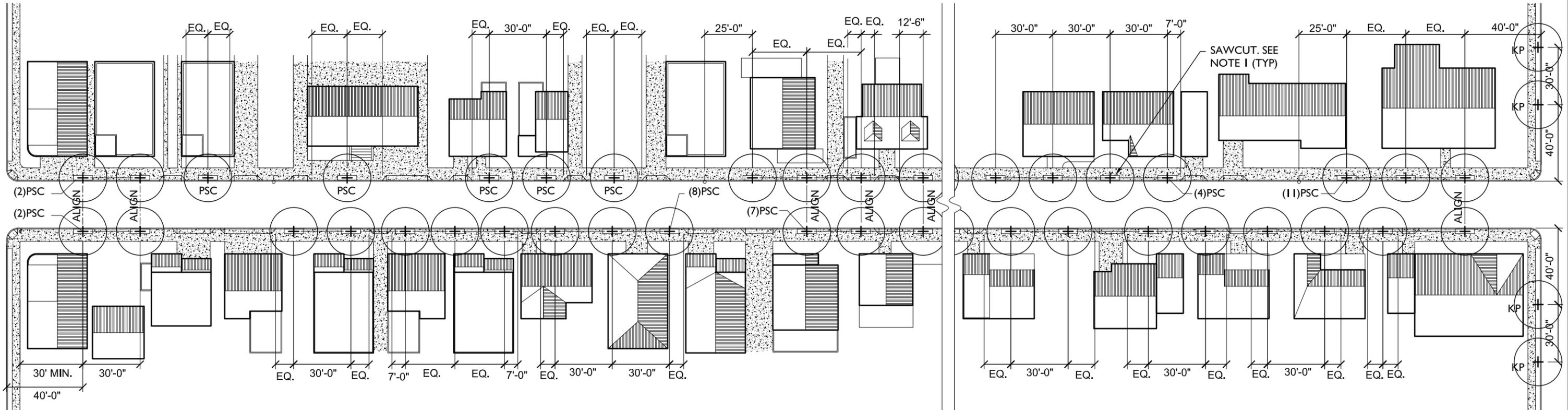
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TREE REPLANTING MASTER PLAN

REBUILDING STRONGER SMARTER SAFER

The City of Long Beach
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LEGEND:

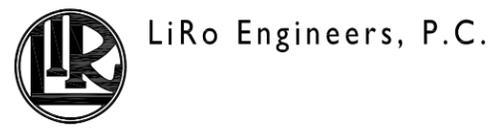
- STREET CURB
- EXISTING PAVEMENT
- EXISTING TRAFFIC SIGN
- EXISTING LIGHT POLE
- EXISTING VEHICULAR DROP CURB
- EXISTING PEDESTRIAN DROP CURB
- EXISTING TREE
- PROPOSED TREE PLANTING

NOTES:

1. SAWCUT & REMOVE EXIST. CONCRETE PAVEMENT TO ALLOW FOR NEW TREE PIT - 2.5'x10'. SEE SPECS & (SIMILAR)
2. CENTER NEW TREE PIT ON NEW OR EXIST. TREES.

CANAL NEIGHBORHOOD & PRESIDENT'S STREETS - PLANTING PLAN
NEW TREES (UNIVERSAL)

SCALE: 1"=50'-0"



TREE REPLANTING MASTER PLAN

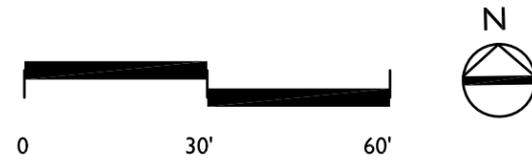
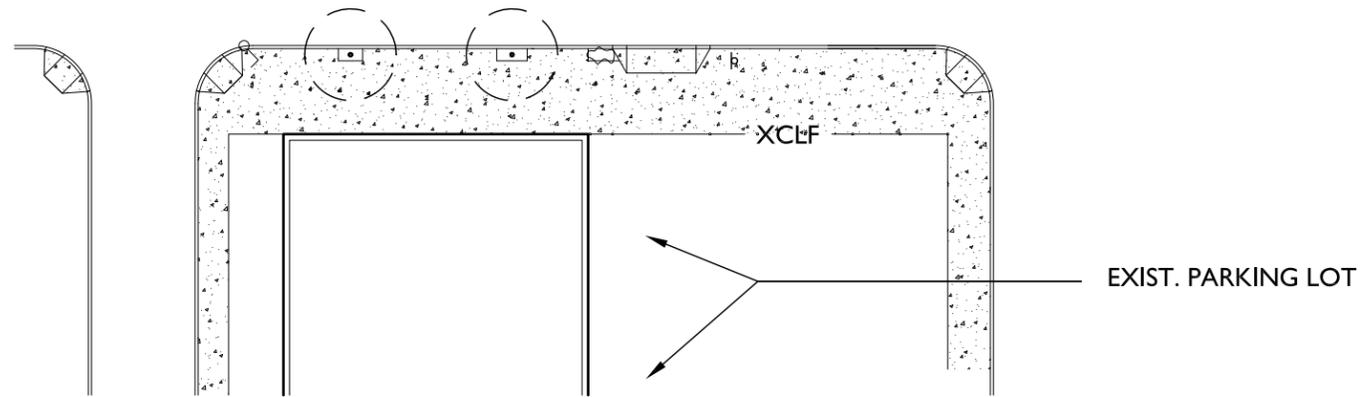
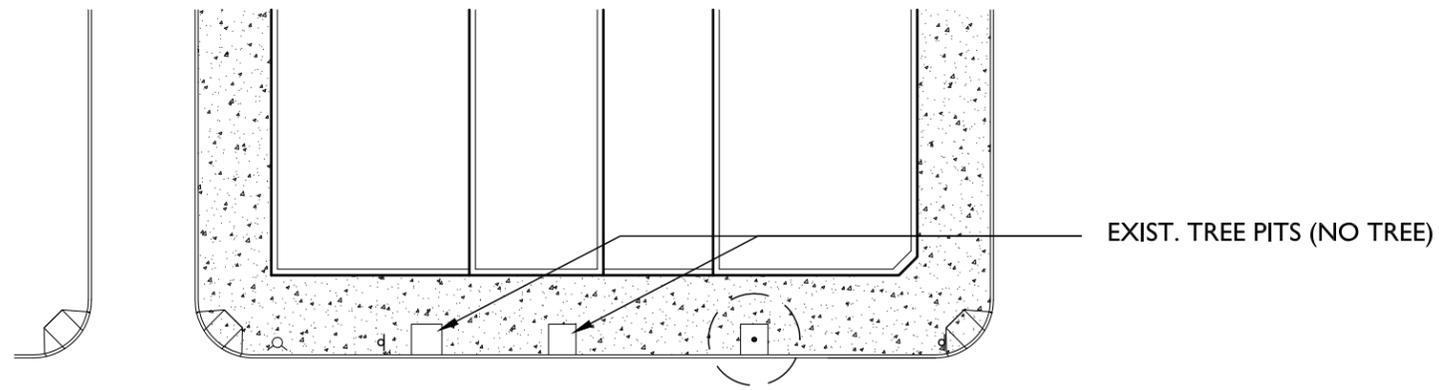
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LEGEND:

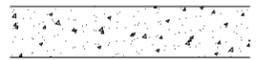
EXISTING BUILDING



STREET CURB



EXISTING SIDEWALK



EXISTING VEHICULAR DROP CURB



EXISTING PEDESTRIAN DROP CURB



EXISTING TRAFFIC SIGN



EXISTING FIRE HYDRANT



EXISTING LIGHT POLE



EXISTING TREE



EXISTING SHRUB

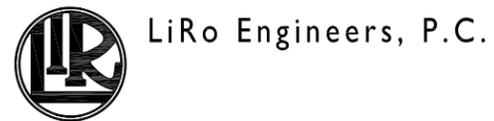


EXISTING CHAIN LINK FENCE



EAST / WEST STREET - EXISTING CONDITIONS (TYPICAL LAYOUT)

SCALE: 1"=30'-0"



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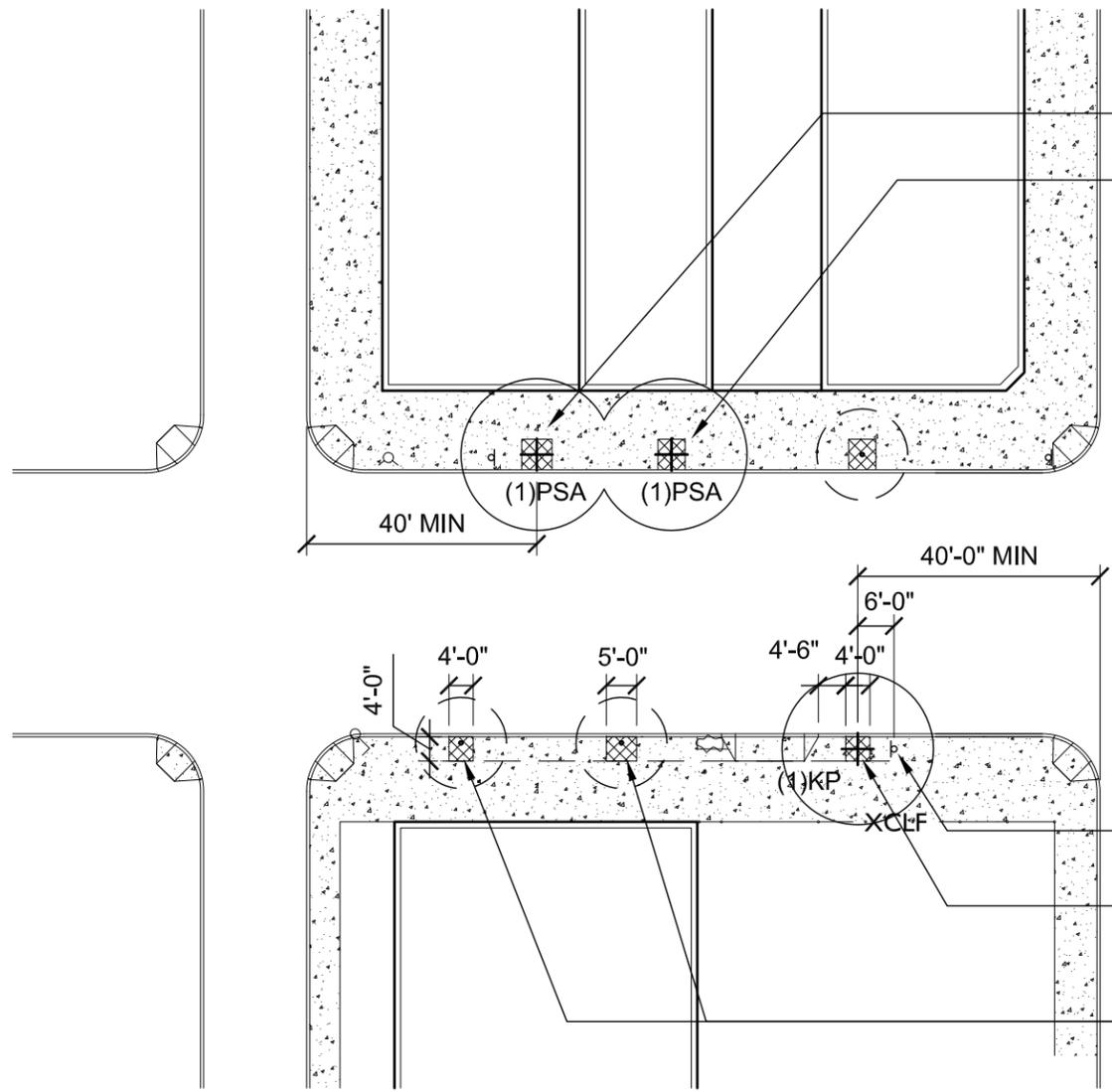
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TREE REPLANTING MASTER PLAN

REBUILDING STRONGER SMARTER SAFER

The City of Long Beach
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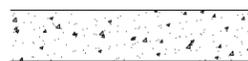


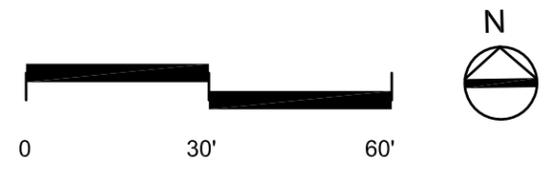


NEW FLOWERING/ SMALL TREE IN EXIST. TREE PIT
 NEW SMALL TREE IN EXIST. TREE PIT

RELOCATE EXIST. TRAFFIC SIGN
 SAWCUT & REMOVE EXIST. CONC. PVM'T & BASE MATERIAL TO ALLOW FOR TREE PLANTING
 ENLARGE EXIST. TREE PIT

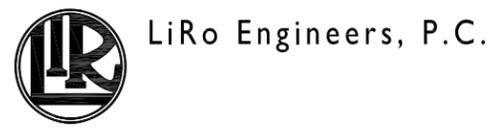
LEGEND:

- EXISTING BUILDING 
- STREET CURB 
- EXISTING SIDEWALK 
- EXISTING VEHICULAR DROP CURB 
- EXISTING PEDESTRIAN DROP CURB 
- EXISTING TRAFFIC SIGN 
- EXISTING FIRE HYDRANT 
- EXISTING LIGHT POLE 
- EXISTING TREE. INSTALL TREE GRATE IN EXIST. OR ENLARGED TREE PIT. 
- EXISTING SHRUB 
- EXISTING CHAIN LINK FENCE 
- PROPOSED TREE  (SIMILAR)
 1
 DTL1
 INSTALL TREE GRATE IN EXIST. OR NEW TREE PIT.



EAST / WEST STREET - PLANTING PLAN WITH EXISTING TREES
(TYPICAL LAYOUT)

SCALE: 1"=30'-0"



STREET TREE MASTER PLAN
WEST BEECH STREET 940-960 BLOCK

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REBUILDING STRONGER SMARTER SAFER

City of Long Beach Tree Replanting Master Plan, Species List

Shade Trees					
Key	Botanical Name	Common Name	Features	Caliper	Root
ARJ	Acer rubrum 'Jeffers Red'	Autumn Blaze Red Maple	native, wet site tolerant, fall color, Survivor	2"-2.5"	B&B
ARO	Acer rubrum 'October Glory'	October Glory Red Maple	native, wet site tolerant, fall color, Survivor	2"-2.5"	B&B
ARR	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	native, wet site tolerant, fall color, Survivor	2"-2.5"	B&B
CB	Carpinus betulus 'Fastigiata'	Fastigate European Hornbeam	urban tolerant, slow growing, columnar, formal	2"-2.5"	B&B
GBA	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	urban tolerant, slow growing, columnar, salt tolerant, Survivor	2"-2.5"	B&B
GBM	Ginkgo biloba 'Magyar'	Magyar Ginkgo	urban tolerant, slow growing, columnar, salt tolerant, Survivor	2"-2.5"	B&B
GTS	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	urban tolerant, vigorous, fall color, Survivor	2"-2.5"	B&B
GTH	Gleditsia triacanthos 'Halka'	Halka Honeylocust	urban tolerant, vigorous, fall color, Survivor	2"-2.5"	B&B
GTI	Gleditsia triacanthos 'Imperial'	Imperial Honeylocust	urban tolerant, vigorous, fall color, Survivor	2"-2.5"	B&B
GTS	Gleditsia triacanthos 'Skyline'	Skyline Honeylocust	urban tolerant, vigorous, fall color, Survivor	2"-2.5"	B&B
PTH	Pinus thunbergii	Japanese Black Pine	seashore condition tolerant, picturesque shapes, Survivor	2"-2.5"	B&B
QCO	Quercus coccinea	Scarlet Oak	native, fall color, slow growing, salt tolerant, attractive form	2"-2.5"	B&B
QBI	Quercus bicolor	Swamp White Oak	slow growing, salt and wet-site tolerant, develop picturesque forms	2"-2.5"	B&B
QRF	Quercus robur 'Fastigiata'	Columnar English Oak	columnar, narrow, salt & urban tolerant	2"-2.5"	B&B
QPH	Quercus phellos	Willow Oak	native, fall color, vigorous, urban & wet site tolerant	2"-2.5"	B&B
SJP	Styphnolobium japonicum 'Princeton Upright'	Princeton Upright Sophora	urban tolerant, fall color, Survivor	2"-2.5"	B&B
SJR	Styphnolobium japonicum 'Regent'	Regent Sophora	urban tolerant, fall color, Survivor	2"-2.5"	B&B
TDI	Taxodium distichum	Bald Cypress	native, wet-site tolerant, tall, narrow	2"-2.5"	B&B
TAR	Tilia americana 'Redmond'	Redmond Linden	drought tolerant, dense, formal, fall color, Survivor	2"-2.5"	B&B
TCG	Tilia cordata 'Greenspire'	Greenspire Linden	drought tolerant, dense, formal, fall color, Survivor	2"-2.5"	B&B
TCM	Tilia cordata x mongolica 'Harvest Gold'	Harvest Gold Linden	drought tolerant, dense, formal, gold fall color	2"-2.5"	B&B
TCB	Tilia cordata 'Bailey'	Shamrock Linden	drought tolerant, dense, formal, fall color	2"-2.5"	B&B
UAD	Ulmus americana 'Princeton'	Princeton Elm	classic form, urban tolerant, fall color, salt tolerant, Survivor	2"-2.5"	B&B
UAV	Ulmus americana 'Valley Forge'	Valley Forge Elm	classic form, urban tolerant, fall color, salt tolerant, Survivor	2"-2.5"	B&B
UAA	Ulmus americana 'Accolade'	Accolade Elm	classic form, urban tolerant, fall color, salt tolerant, Survivor	2"-2.5"	B&B
UAP	Ulmus americana 'Patriot'	Patriot Elm	classic form, urban tolerant, fall color, salt tolerant, Survivor	2"-2.5"	B&B
UAF	Ulmus americana 'Frontier'	Frontier Elm	classic form, urban tolerant, fall color, salt tolerant, Survivor	2"-2.5"	B&B
UPA	Ulmus parvifolia 'Allee'	Allee Chinese Elm	unique form, urban tolerant, fall color, salt tolerant, exfoliating bark	2"-2.5"	B&B
UPD	Ulmus parvifolia 'Dynasty'	Dynasty Chinese Elm	unique form, urban tolerant, fall color, salt tolerant, exfoliating bark	2"-2.5"	B&B
ZSV	Zelkova serrata 'Village Green'	Village Green Zelkova	salt tolerant, urban tolerant, formal, compact, mid-size, Survivor	2"-2.5"	B&B
ZSG	Zelkova serrata 'Green Vase'	Green Vase Zelkova	salt tolerant, urban tolerant, formal, compact, mid-size, Survivor	2"-2.5"	B&B
ZSW	Zelkova serrata 'Wireless' (Schmidtlow)	Wireless Zelkova	salt & urban tolerant, formal, mid-size, narrow, good under wires	2"-2.5"	B&B



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TREE REPLANTING MASTER PLAN

The City of Long Beach
1 West Chester Street
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City of Long Beach Tree Replanting Master Plan, Species List

Small and Ornamental Trees					
Key	Botanical Name	Common Name	Features	Caliper	Root
ACE	Acer campestre 'Evelyn'	Evelyn Hedge Maple	compact, dense, hardiness, urban & salt tolerant, Survivor	2"-2.5"	B&B
ACM	Acer campestre 'Metro Gold'	Metro Gold Hedge Maple	compact, dense, hardiness, urban & salt tolerant, Survivor	2"-2.5"	B&B
AG	Acer ginnala	Amur Maple	compact, dense, fall color, drought & salt tolerant, Survivor	2"-2.5"	B&B
CC	Crataegus crus-galli inermis	Thornless Hawthorn	native, fall color, attracts birds, drought, salt & urban tolerant	2"-2.5"	B&B
KPA	Koelreuteria paniculata	Golden Rain Tree	summer flowers, fall color, hardiness, flood tolerant, Survivor	2"-2.5"	B&B
PVC	Prunus virginiana 'Canada Red'	Canada Red Chokecherry	spring flowers, hardiness, berries, fall color, urban tolerant	2"-2.5"	B&B
PSC	Prunus sargentii 'columnaris'	Columnar Sargent Cherry	spring flowers, columnar form, fall color, drought & salt tolerant	2"-2.5"	B&B
PSA	Prunus serrulata 'Amanogawa'	Amanogawa Cherry	spring flowers, narrow, columnar form, fall color, wind tolerant	2"-2.5"	B&B
PSK	Prunus serrulata 'Kwanzan'	Kwanzan Cherry	spring flowers, fall color, short, drought & salt tolerant, Survivor	2"-2.5"	B&B
SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Japanese Tree Lilac	spring flowers, hardiness, urban & drought tolerant, fall color	2"-2.5"	B&B

Trees for "Canal" and "President" Streets					
CBF	Carpinus betulus 'Frans Fontaine'	Frans Fontaine European Hornbeam	narrow, columnar, compact, hardiness, fall color	2"-2.5"	Cont.
GBP	Ginkgo biloba 'Princeton Sentry'	Princeton Sentry Ginkgo	urban & salt tolerant, slow growing, columnar, Survivor	2"-2.5"	Cont.
KPF	Koelreuteria paniculata 'Fastigiata'	Fastigate Golden Rain Tree	summer flowers, narrow, columnar, flood tolerant	2"-2.5"	Cont.
KP	Koelreuteria paniculata	Golden Rain Tree	summer flowers, fall color, hardiness, flood tolerant, Survivor	2"-2.5"	Cont.
PSC	Prunus sargentii 'Columnaris'	Columnar Sargent Cherry	spring flowers, columnar form, fall color, drought & salt tolerant	2"-2.5"	Cont.
PSA	Prunus serrulata 'Amanogawa'	Amanogawa Cherry	spring flowers, narrow, columnar form, fall color, wind tolerant	2"-2.5"	Cont.
QXW	Quercus x warei	Kindred Spirit Oak	narrow, columnar, compact; similar to 'Regal Prince'	2"-2.5"	Cont.
ZSM	Zelkova serrata 'Mushashino'	Mushashino Zelkova	narrow vase form, fall color, urban & salt tolerant	2"-2.5"	Cont.

Survivor - survived past storm surges in Long Beach successfully

NOTE: Use one variety/cultivar of a tree per block. Do not mix varieties within a block or within an intersection planting.

Sources:

- Cornell Cooperative Extension of Suffolk County
- US Forest Service
- NYC DPR Street Tree Program
- Virginia Tech
- Dirr, Michael: "Manual of Woody Landscape Plants"



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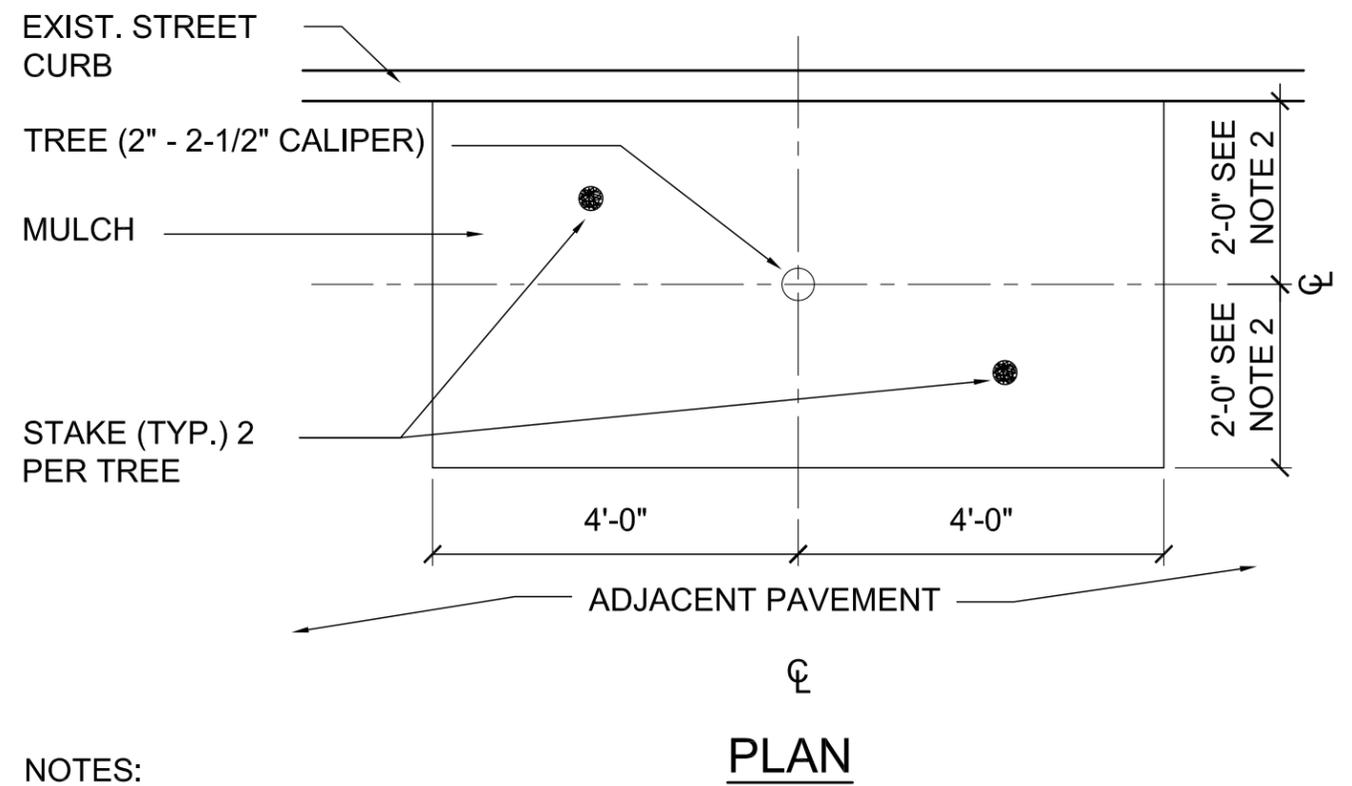
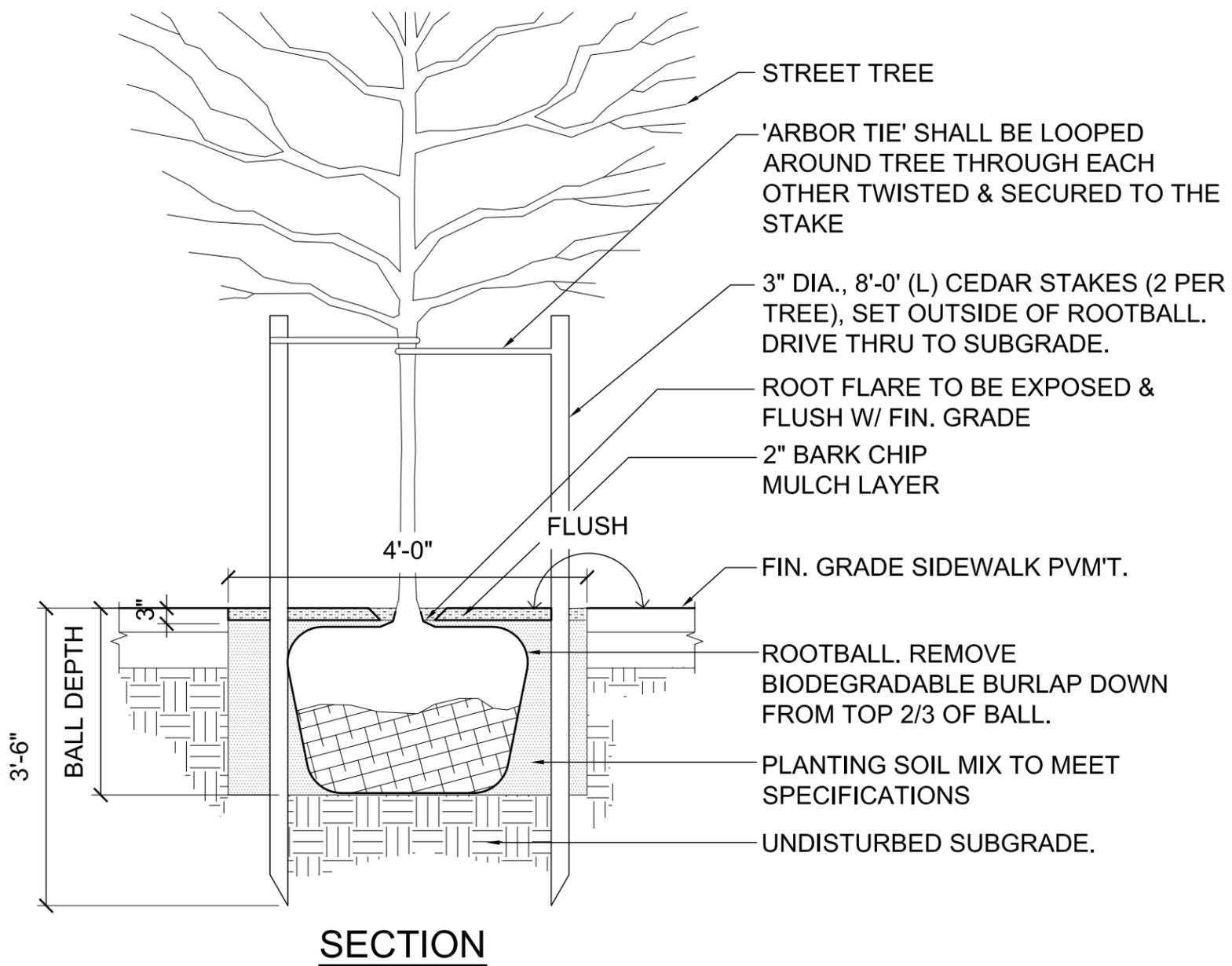
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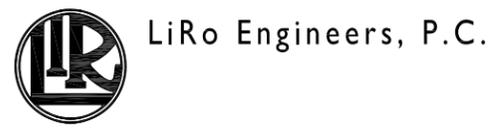
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- NOTES:**
1. FOR LOCATIONS WITHOUT PLANTING STRIP PROVIDE TREE PIT 4'x8'.
 2. FOR LOCATIONS WITH EXISTING CONTINUOUS PLANTING STRIP, MAINTAIN THE EXISTING WIDTH.
 3. USE SAME DETAIL FOR TREE PIT AT EXISTING TREE.

1 TREE PLANTING IN PAVED AREA
 DTL-1 SCALE: 1/2"=1'-0"



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3" DIA., 8' LONG
CEDAR STAKES. SET
STAKES OUTSIDE OF
ROOT BALL

ROOT FLARE TO BE
EXPOSED & FLUSH W/
FIN. GRADE

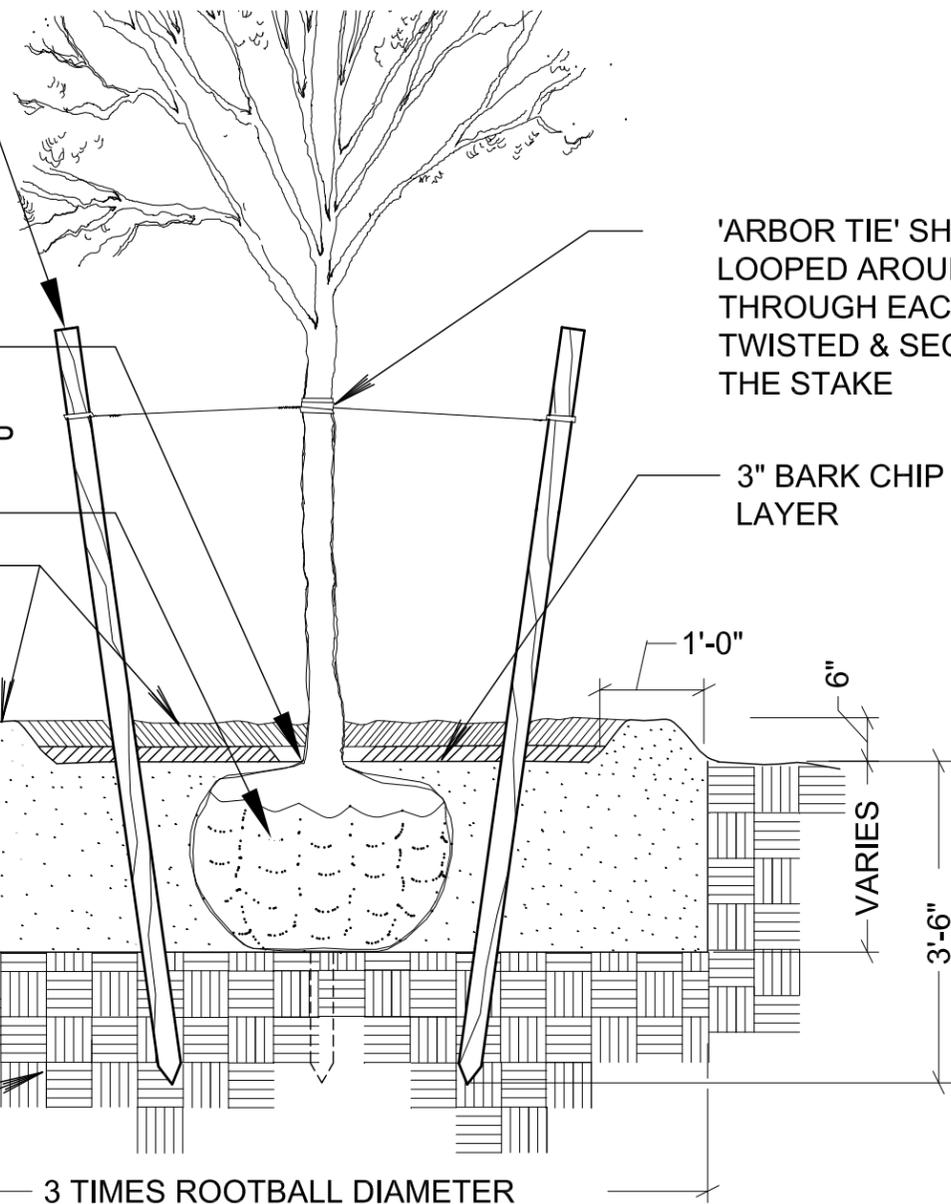
ROOTBALL. REMOVE
BIODEGRADABLE BURLAP
DOWN FROM TOP 2/3 OF
BALL.

BACKFILL SHALL
BE FORMED INTO
SAUCER AROUND
PERIMETER

FINISHED
GRADE

PLANTING SOIL
MIX TO MEET
SPECIFICATIONS

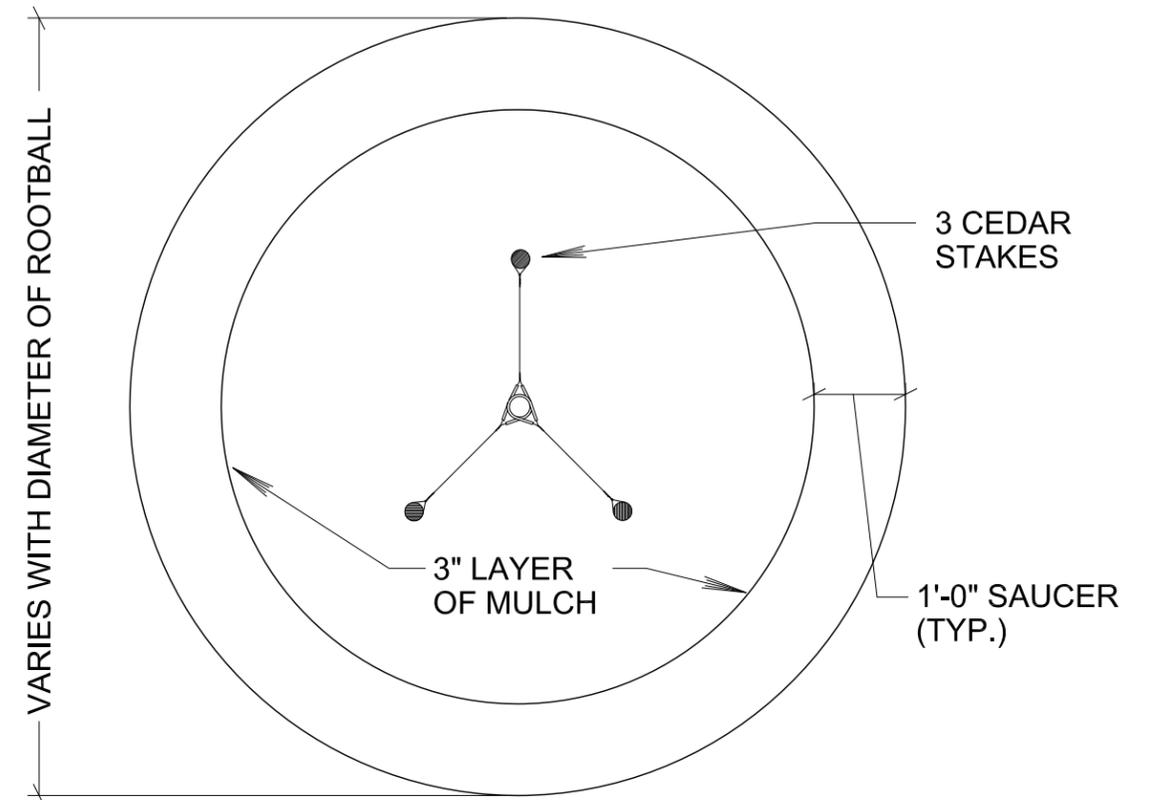
UNDISTURBED
SUBGRADE



SECTION

'ARBOR TIE' SHALL BE
LOOPED AROUND TREE
THROUGH EACH OTHER
TWISTED & SECURED TO
THE STAKE

3" BARK CHIP MULCH
LAYER



PLAN

1 TREE PLANTING IN LANDSCAPED AREA

DTL-2 SCALE: 1/2"=1'-0"



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TREE REPLANTING MASTER PLAN

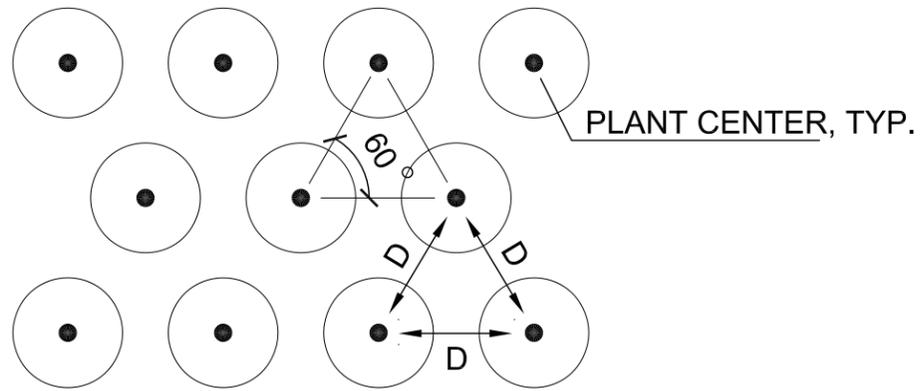
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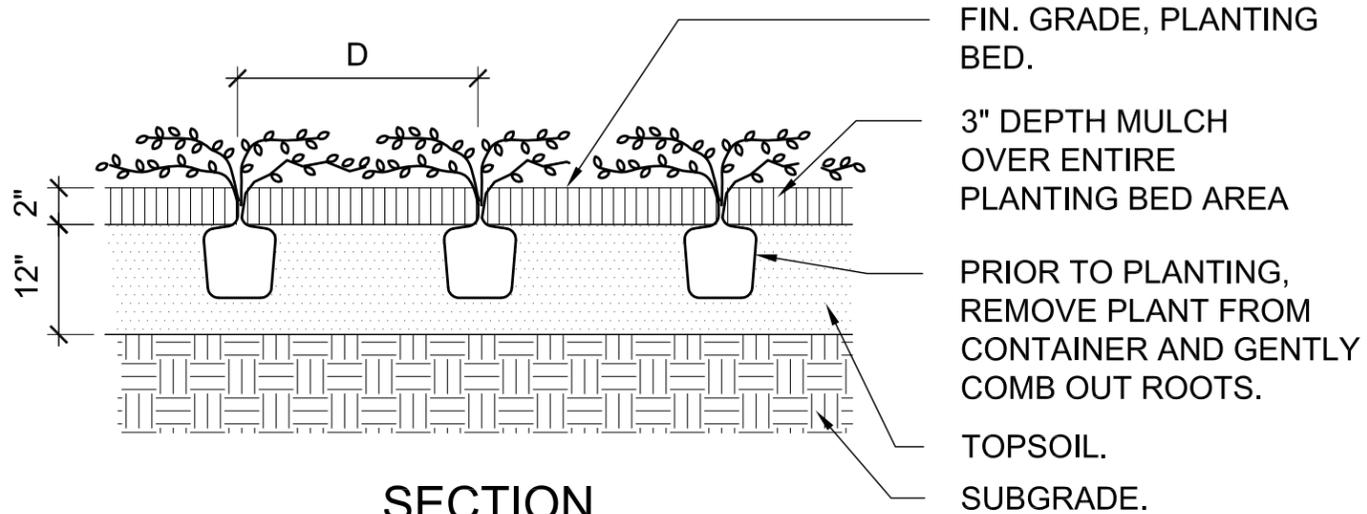
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PLAN



SECTION

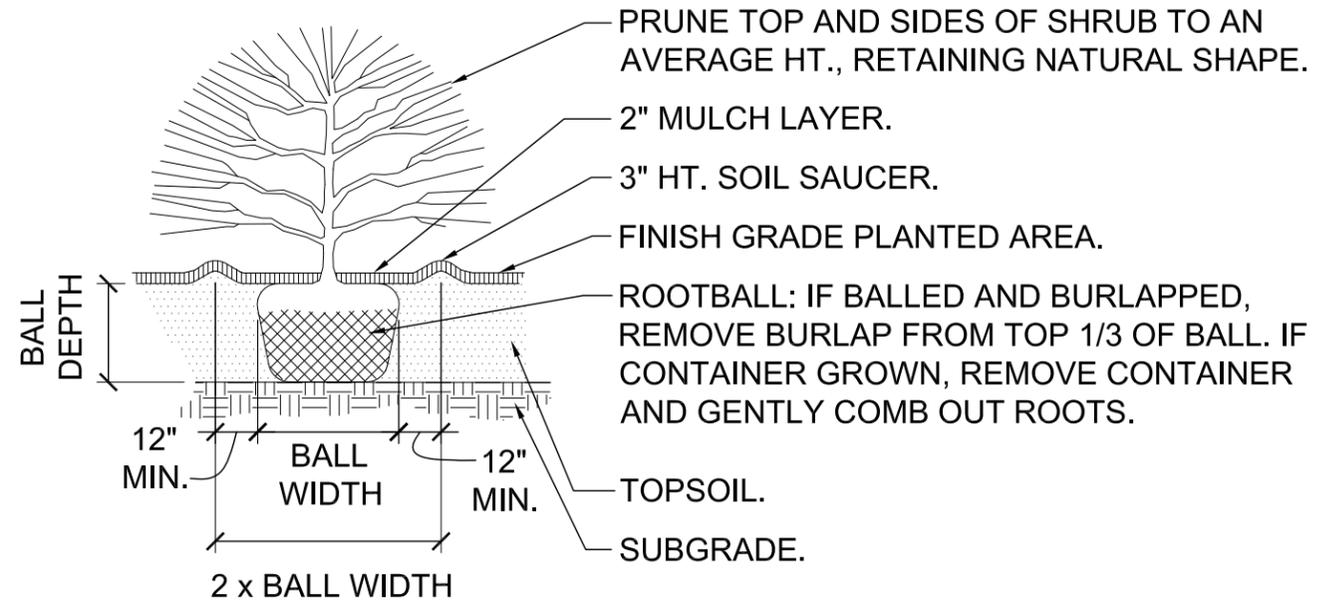
FIN. GRADE, PLANTING BED.

3" DEPTH MULCH OVER ENTIRE PLANTING BED AREA

PRIOR TO PLANTING, REMOVE PLANT FROM CONTAINER AND GENTLY COMB OUT ROOTS.

TOPSOIL.

SUBGRADE.



SECTION

NOTE:

REMOVE ALL WIRE, PLASTIC, TAGS OR OTHER SYNTHETIC MATERIAL FROM SHRUB PRIOR TO PLANTING.

NOTES:

1. REMOVE ALL WIRE, PLASTIC, TAGS OR SYNTHETIC MATERIAL FROM PLANTS PRIOR TO PLANTING.
2. D = TYPICAL ON CENTER (O.C.) SPACING AS INDICATED IN THE PLANT LIST.

2 SHRUBS PLANTING DETAIL
DTL-3 SCALE: N.T.S.

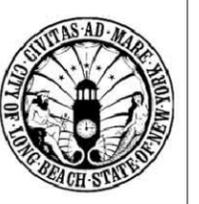
1 PERENNIALS & GROUNDCOVERS PLANTING DETAIL
DTL-3 SCALE: N.T.S.



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