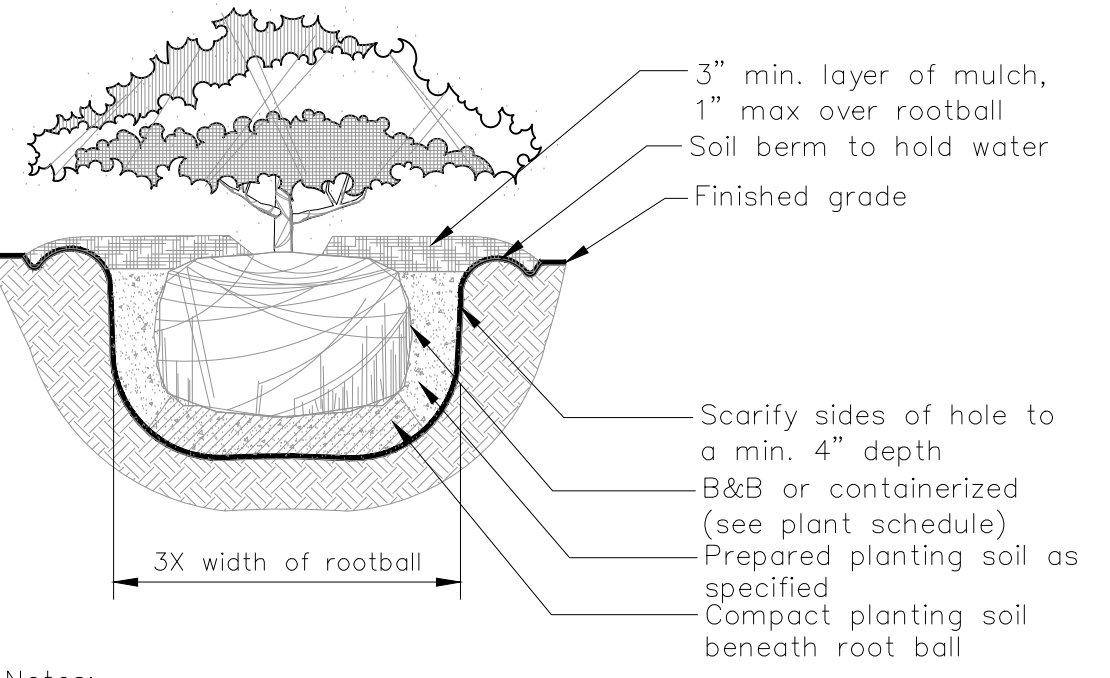
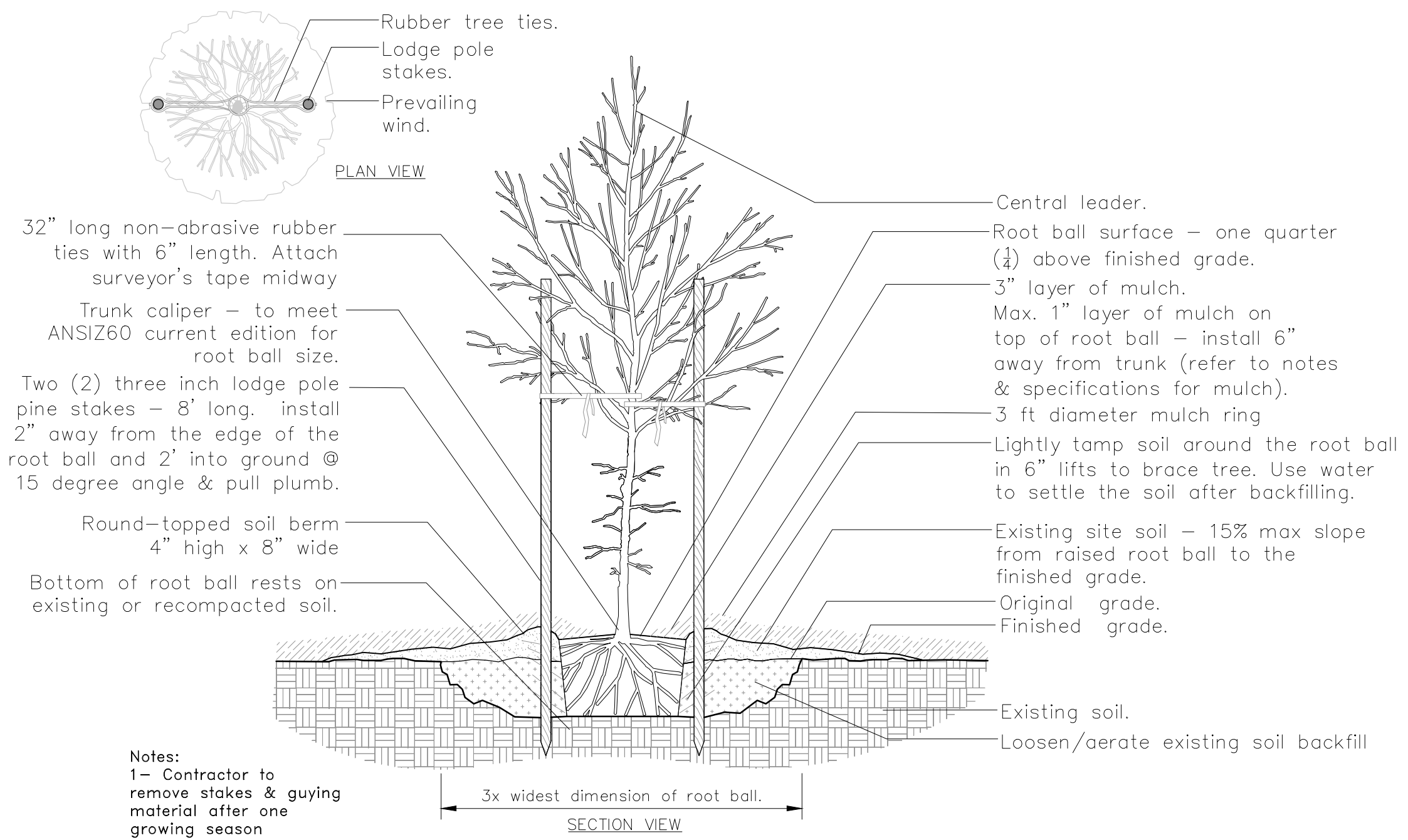




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- Notes:**
1. Contractor shall assure percolation of all planting pits prior to installation
  2. In semi-impervious soil conditions, rootball elevation shall be 1/4 of rootball above finish grade. Coordinate with Landscape Architect prior to setting rootball elevations.
  3. Soak each rootball and pit immediately after installation.

**PLANTING SOIL SPECIFICATION**

1. Existing site soil to be used whenever possible.
2. All soils (existing and imported) shall not be amended with peat, compost, pine bark, manure, or other organic material, unless otherwise directed to do so by the Landscape Architect.
3. Top 9-12" of existing soil in all planting areas to be tilled prior to planting.
4. All soils (existing and imported) shall be free of weeds, roots, stumps, rocks, and/or other debris larger than 1/2-inch diameter.
5. All soils (existing and imported) shall be free of organic muck, hard pan, toxic substances detrimental to plant growth, and construction debris such as lime rock, concrete, and asphalt pieces.
6. Imported soil shall be fine sand or loamy fine sand indigenous to the area and suitable for plant growth. Imported soils shall be delivered in a normal moist condition, neither muddy nor wet and shall meet the following criteria measured in accordance with the appropriate AASHTO and ASTM standard.  
USDA Texture: fine yellow sand, loamy fine sand  
AASHTO Classification: A-3  
Ph Range 5.5 - 6.0
7. All imported soils shall have the above-mentioned characteristics resulting from a current agronomic and full textural class analysis of soil samples collected from the actual soil proposed to be used.
8. The Landscape Contractor is responsible for soil analysis of all soils (existing and imported) prior to installation of plantings and all costs shall be at the expense of the Landscape Contractor.
9. The results of the soil tests shall be submitted to the Landscape Architect 3 weeks prior to the anticipated date of the start of soil installation and must include sample date and reference the collection location.
10. One soil sample for each separate imported soil source is required.
11. 4 soil sample locations are required for tested existing site soil. Sample locations to be approved by Landscape Architect.
12. If tests of imported soil fail to meet the specifications, Landscape Contractor is to obtain other sources of material, retest and resubmit until accepted by the Landscape Architect.
13. Existing site soil shall be tested for pH levels, organic matter, and nutrient levels by parts per million including: nitrogen, phosphorus, potassium, magnesium, manganese, iron, zinc and calcium.
14. Nutrient test shall include the testing laboratory recommendations for supplemental additions to the soil for optimum growth of the plantings specified. Granulated commercial grade slow-release fertilizer shall be added to the existing soil as recommended by the soil testing laboratory.

**LANDSCAPE INSTALLATION NOTES**

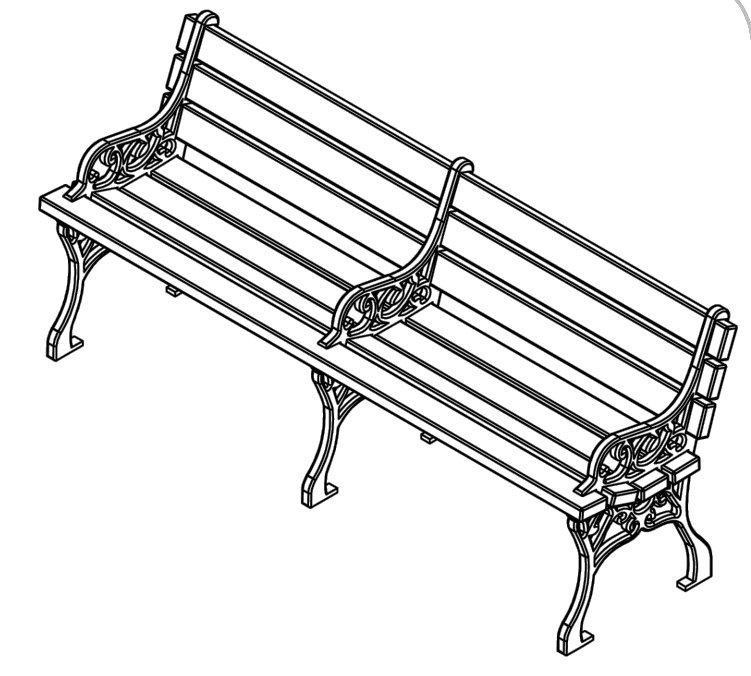
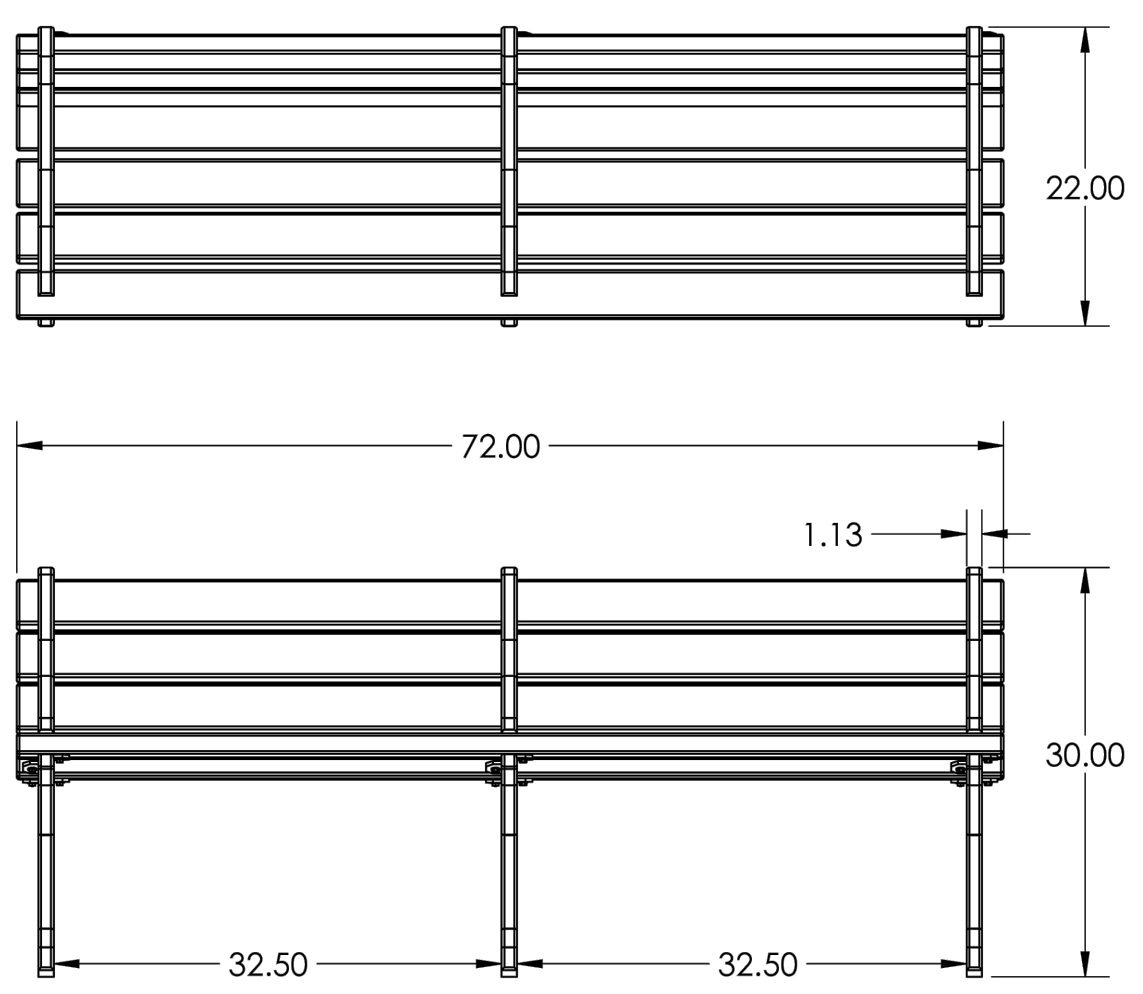
1. Plant material shall meet or exceed the standards for Florida No. 1 as set out in the most current edition of "Grades and Standards for Nursery Plants Part 1 and Part 2.", State of Florida, Department of Agriculture, Tallahassee. All trees to be free of mechanical injuries to the trunk.
2. The selection, installation, and maintenance of the subject landscape falls under the auspices of the ANSI A300 series; all 10 parts. This subject landscape also falls under the auspices of ANSI Z133, and local governmental codes and regulations
3. All plant material shall be purchased and/or grown at a location that allowed the trees to become adapt to the local environment for application on this site.
4. All planting beds shall receive a 3" layer (1" over root ball) of pine bark mulch or approved equal and shall be weed free. Mulch shall be Grade B or better.
5. The Landscape Contractor shall be responsible for verification of all quantities on the plant schedule. In the event of a conflict between quantities on the plant schedule and the plans, the plans shall take precedence and the discrepancy shall be brought to the attention of the landscape architect prior to bid. Any deviation from these plans must be approved by the landscape architect or owner's representative. The Contractor shall be responsible for verifying and calculating all material quantities including, but not limited to, sod and mulch.
6. The Landscape Contractor is responsible for compliance with all applicable building codes, "ordinances" and local regulations. The contractor shall be responsible for obtaining all necessary permits to perform the work.
7. The Landscape Contractor is responsible for inspection of existing site conditions and promptly reporting all discrepancies and improper planting conditions (wetness, muck, debris, etc.) to landscape architect prior to bidding.
8. Prior to the start of construction, the Landscape Contractor shall be responsible for familiarizing themselves with the location of all utilities (underground and overhead). The exact location of all utilities and underground irrigation sprinklers and pipes may not be indicated on drawings. The Landscape Contractor shall protect utility services which must remain operational throughout the time of construction. The Contractor shall be responsible for utility replacement if damaged by the Contractor.
9. The Landscape Contractor shall be responsible for fine grading all landscape areas, and eliminating all bumps, depressions, sticks, stones, concrete, and other debris to the satisfaction of the Landscape Architect. All inorganic debris that may damage or inhibit the growth of plant material will be removed from all planting beds. Sod shall not be installed until final grades have been approved by Landscape Architect.
10. New sod shall match existing adjacent species as needed and as approved by Landscape Architect. Contractor shall determine exact quantities of sod in the field.
11. The Landscape Contractor shall maintain all lawn areas (sod/seed), planting beds, ground covers, shrubs, palms, and trees until final acceptance including: watering, weeding, fertilizing, mowing (maintain 3" height or as specified) and edging, insect and disease control, mulching (3" depth or as specified), maintenance of tree stakes and braces, and maintenance of tree rings per tree planting detail.
12. The Landscape Contractor is responsible for ensuring all plant material is watered: at time of planting, during plant establishment, and until final acceptance. Plant watering requirements (quantity and schedule) shall be determined by the contractor and will be dependent on the plant species, site conditions, time of year, and weather. Plants shall be kept alive and in good health (i.e. not showing signs of stress including leaf wilting, leaf browning, and premature leaf drop) from time of planting until final acceptance.
13. Tree braces and support systems shall be left in place until the tree(s) are firmly rooted into the landscape. Removal of braces and supports is the responsibility of the Landscape Contractor. The Landscape Contractor shall determine the time when the braces or supports should and shall be removed. The Landscape Contractor shall notify the Landscape Architect in writing prior to the removal of stakes or braces providing the tree species name, location in the field, and date and time of removal.
14. Plant material shall be guaranteed for one year after planting and shall be replaced within 30 days should they die or have over 30% leaf damage due to pests. Exceptions to this guarantee include theft, vandalism, and acts of God.
15. The landscape will be inspected by a third party for compliance with the specifications prior to final acceptance.

**1 TREE STAKING AND PLANTING DETAIL**

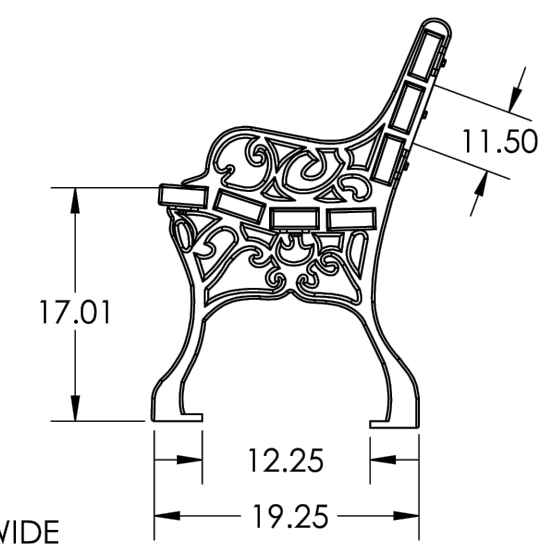
**2 SHRUB PLANTING DETAIL**

**6ft Bench Specifications BC1190**

REV# 3  
1/12/2018



Fastened bench to concrete sidewalk using stainless steel hardware per manufacturer's specifications.



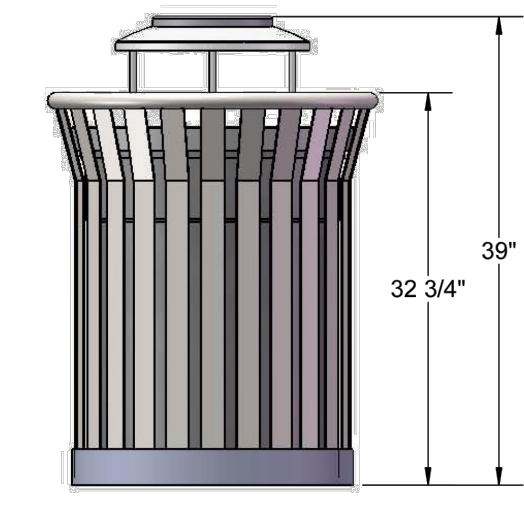
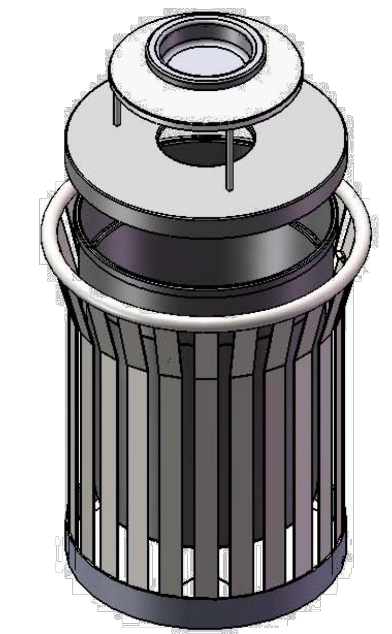
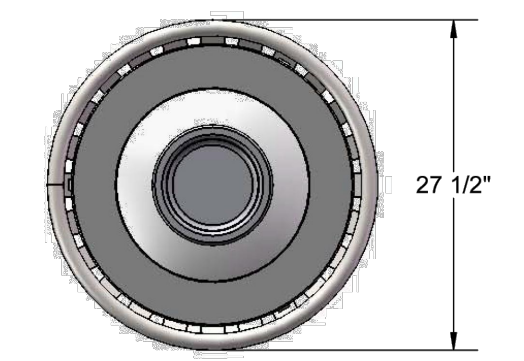
**CONSTRUCTION MATERIALS:**  
Recycled Plastic, Cast Aluminum  
**HARDWARE:**  
Stainless Steel

BENCH SLATS ARE 1.5 INCHES THICK BY 3.5 INCHES WIDE  
ALL DIMENSIONS SHOWN IN INCHES

SKU: 2ZK2046-CD by TreeTop Products or approved equal

**OVERALL DIMENSIONS**

Fastened waste receptacle to concrete sidewalk using stainless steel hardware per manufacturer's specifications.



JK-36 SKU: 622tr600 by Park Warehouse or approved equal  
36 GALLON TRASH RECEPTACLE  
Material: Sides are fabricated with 1-1/2" x 1/4" flat steel strips. Top and bottom rings are 1" pipe. Bottom plate fabricated from 10 gauge sheet steel precision punched. All electrically MIG welded.  
Receptacle Coating: Steel is sandblasted to near white condition. Then coated with electrostatic powder coat, oven cured.  
Receptacle Dimensions: 32-3/4" high x 27-1/2" in diameter x 36 gallon capacity.

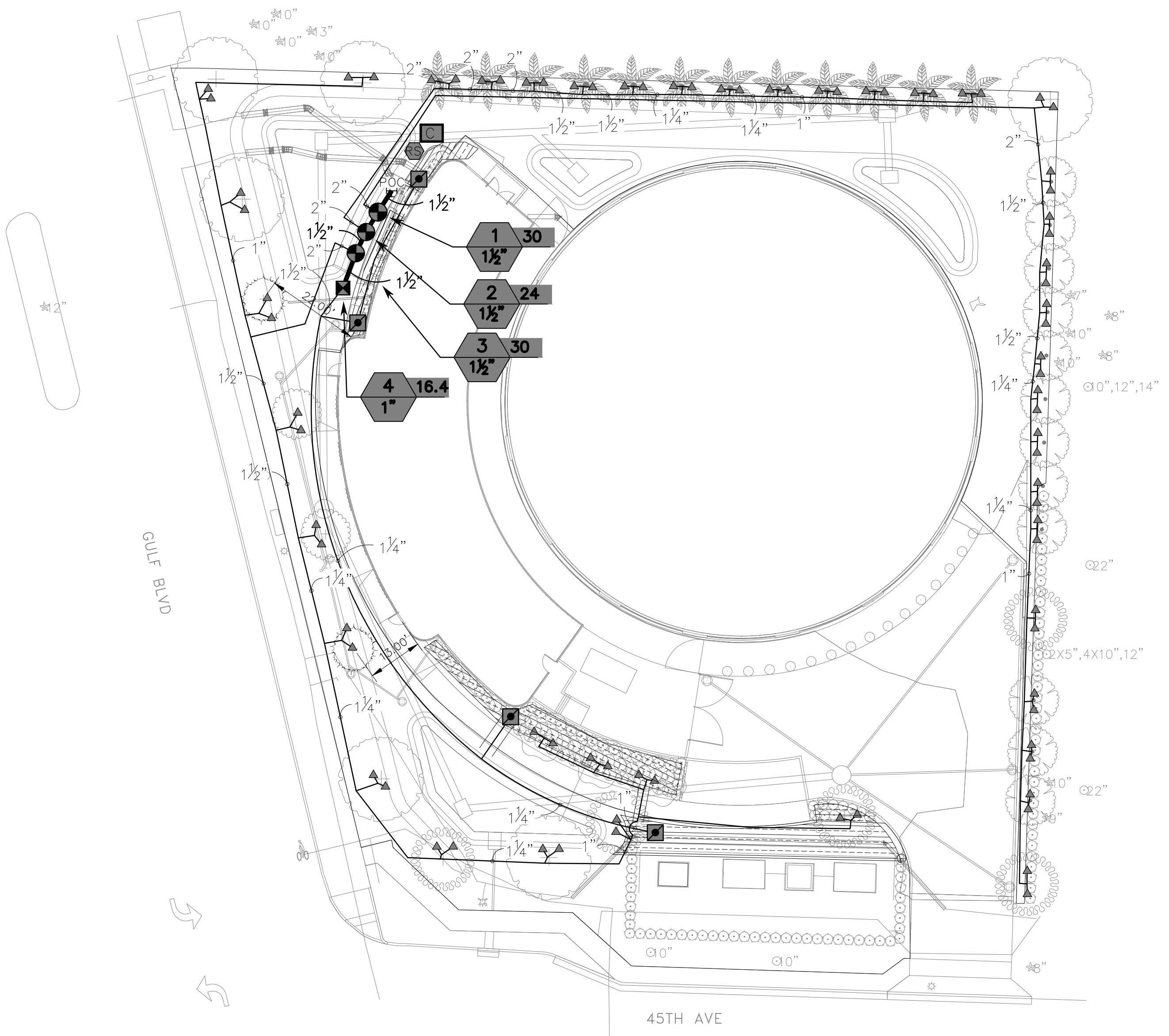
WASTE RECEPTACLE

8/1/2016

Page 5 of 5

DESIGNED	MR		PROJECT:	PINELLAS COUNTY, FLORIDA GULF BEACH WATER BOOSTER STATION IMPROVEMENTS	DESCRIPTION:	LANDSCAPE DETAILS	PREPARED BY:	 407.906.1776   www.wright-pierce.com 601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751	ADMINISTERED BY:	 5001 N Nebraska Ave., Ste. A, Tampa, FL 33603 Phone: 813.361.2644 www.MadridCPWG.com MATTI RUKHOLM, P.L.A., FL LIC NO. LA6667261. CPWG LC NO. 2600439	DATE:	JULY 2024
DRAWN	MR/JR										PROJECT NO.	5015A
REV. NO.	DATE		DESCRIPTION		REV. BY		CHECKED		GH		SHEET:	L-2

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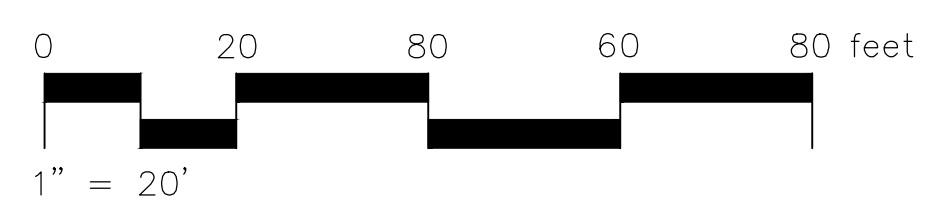


**IRRIGATION SCHEDULE**

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
▲ 1401 1402 1404 1408	Rain Bird 1804-1400 Flood Flood Bubbler 4.0in. popup	84	20
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
■	Rain Bird XZC-100-IVMQ Wide Flow IVM Drip Control Kit for Commercial Applications. 1in. Ball Valve with 1in. PESBIVM Smart Valve w/ factory installed IVM-SOL 0.3-20 gpm and 1in. Pressure Regulating 40psi Quick-Check Basket Filter 0.3-20 gpm	1	
■	Pipe Transition Point above grade Pipe transition point from PVC lateral to drip tubing with riser to above grade installation.	4	
[Hatched Box]	Area to Receive Dripline Rain Bird XFDe-09-12 XFDe On-Surface Pressure Compensating Landscape Dripline. 0.9 GPH emitters at O.C. Dripline laterals spaced at RR apart, with emitters offset for triangular pattern. UV & Kink Resistant. Use XF insert fittings.	1,090 l.f.	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
●	Rain Bird PEB 1in., 1-1/2in., 2in. Plastic Industrial Valves. 3 Low Flow Operating Capability, Globe Configuration. With IVM	3	
■	Hunter P2C-400 Light Commercial & Residential Controller, 4-station base module controller, 120 VAC, Outdoor/Indoor model	1	
■	Hunter MINI-CLIK Rain Sensor, mount as noted	1	
POC	Point of Connection Potable water line. Refer to Civil Engineering plans for water meter and backflow prevention details.	1	
—	Irrigation Lateral Line: PVC Schedule 40	1,464 l.f.	
—	Irrigation Mainline: PVC Class 200 SDR 21	25.7 l.f.	
—	Pipe Sleeve: PVC Schedule 40	27.5 l.f.	
[Valve Callout]	Valve Callout Valve Number Valve Flow Valve Size		

**IRRIGATION NOTES**

- Irrigation system to meet the 2023 Florida Building Code Plumbing, Eighth Edition, Appendix F (Proposed Construction Building Codes for Turf and Landscape Irrigation Systems), Chapters 13, and Chapter 14 'Reserved' regarding reclaimed/effluent water pipe, valve, and valve box identification. Per Appendix F, all pipe, valves, and valve boxes used with effluent water systems shall be designated for nonpotable use by either label or by the industry standard color purple. Irrigation pipe, valves, and valve boxes are to be purple.
- Irrigation is from the Point of Connection (POC) only. Refer to plan for POC location.
- Contractor shall notify Landscape Architect immediately if water pressure is below 65 PSI or above 80 PSI.
- Prior to construction, Contractor to establish the location of all utility and service lines within work area(s). All damage to utilities as a result of construction are responsibility of the Contractor. Necessary repairs must be undertaken at no additional cost to the owner.
- Irrigation equipment shown in hardscape and outside property lines for clarity only. All irrigation shall be installed within landscape areas unless noted within a sleeve.
- This plan is diagrammatic. The exact location of valves and irrigation heads are to be determined in the field by the contractor. Do not scale drawing.
- All components to be installed as per manufacturer's recommendations.
- Refer to manufacturer's installation details.
- Refer to manufacturer's catalog for performance specifications.
- All head spray patterns shall be adjusted to eliminate all over spray onto hardscape & roadway surfaces.
- Mainline depth to be no less than 18". Lateral line depth to be no less than 12". Backfill with rock free soil and compact to 90% of the maximum density for the material used as determined by ASTM D-698 (Standard).
- Lateral lines are to be located within the 6' wide cemetery walkway area and the 10' wide vehicle access route area. The mainline and laterals shall not be located within the area of the burial plots.
- Allow 12" minimum space between heads and edge of concrete bench pads.
- Electric control valves to be covered with 12" valve box or larger flush with grade. Group nearby valves in one valve box.
- Wiring between controller and remote control valve shall be in conduit. Conduit shall have a minimum 12" cover. All wiring shall be 14 gauge or larger per specifications.
- Tracer wire shall be installed on all mains and laterals.
- Electrical wiring shall be installed in the same trench as the pipe; install wire above pipe, taped to the pipe every 10'.
- Locate drain valves at the lowest point(s) of elevation within each section.
- Coordinate with owner when programming controller. Watering times shall be from midnight to early morning.
- Locate valves as far back from existing trees as possible and conceal from view to the greatest extent possible. Install all valves within turf or planting areas.
- Wire splice connections to be waterproof.
- All pipes run underneath hardscape shall be installed inside sleeves.
- Sleeve inside diameter shall be two times the size of the outside diameter of the pipe(s) going through it. Sleeves to extend 12" past the hard surface and are to be marked with flags.
- Install all components as per local, state, and federal codes.
- All electrical wire shall be for 110/ 220 volt service. Wiring shall be installed by a licensed and competent electrician and installed to City code.
- All work performed shall conform to applicable City building and plumbing codes.
- Contractor is responsible for his/her own take-offs and is to verify all quantities. In the event of a conflict between the quantities on the irrigation schedule and the plans, the plans shall take precedence and the discrepancy shall be brought to the attention of the Landscape Architect prior to bid.
- Items such as wiring, valve boxes, connectors etc. are considered incidental to construction and are the responsibility of the contractor.
- Care is to be taken when digging around near existing tree roots. Contractor to hand dig around existing tree roots to minimize damage. All roots larger than 1" in diameter shall be root pruned. Contractor to bore under the tree when installing mainline within the dripline of a tree.
- All air/vacuum relief valves, valves, pressure reducing valves, pumps, pump control valves, etc. must be tagged or labeled indicating whether it is on the reclaimed water or potable water system.



DESIGNED	MR		PROJECT:	PINELLAS COUNTY, FLORIDA GULF BEACH WATER BOOSTER STATION IMPROVEMENTS	DESCRIPTION:	IRRIGATION PLAN	PREPARED BY:	 407.906.1776   www.wright-pierce.com 601 S LAKE DESTINY ROAD, SUITE 290, MAITLAND, FL 32751	ADMINISTERED BY:	 5001 N Nebraska Ave., Ste. A, Tampa, FL 33603 Phone: 813.361.2644 www.MadridCPWG.com MATTI RUKHOLM, P.L.A., FL LIC NO. LA6667261, CPWG L.C. NO. 2600439	DATE:	JULY 2024
DRAWN	MR/JR										PROJECT NO.	5015A
REV. NO.	DATE		DESCRIPTION		REV. BY		CHECKED		GH		SHEET:	IR-1

