

PANEL TREE REQUIRED SPECIFICATIONS

1. In the first year of the contract and first year of a renewal, a new (unused) fifty-foot (50') animated panel tree including the eight-foot (8') 3D star must meet the below listed specifications.
 - A. Tree garland to be a natural, two-tone green opaque color (5.2 mil), branch size 4.5" diameter with a total width of fourteen inches (14"), with two (2) branches every four inches (4"). Branch garland will be affixed to the four-foot (4') panels framework.
 - B. 11,500+each c7 retro fit led lights (red, green, blue, & strobes)
 - C. 85+ each 24" UV red fine cut glitter bows
 - D. 1818+ each ornament sized from four inches (4") to eight inches (8") in size, using traditional holiday colors (red, gold, blue, silver, & green). Each ornament to be equipped with a solid 18-gauge wire strung through a drilled hole at the top of each ornament to prevent any detachments from being installed on the panel tree, (no plastic caps or inserts).
 - E. 606+ each 4" round ornaments
 - F. 909+ each 6" round ornaments
 - G. 303+ each 8" round ornaments
 - H. Custom programmed light animation to consist of eleven (11) individual rows with four (4) individual channels per row (red, green, blue, and strobe lights), forty-five (45) individual channels programmed to randomly fade from color to color, fade up & down, stagger colors in between rows, random flicker, and fades of colors. (Please submit video of work).
 - I. Animation control hardware to consist of six (6) Light-O-Rama (or equivalent) controllers with Light-O-Rama mini director.
 - J. Frame to consist of a twenty-three-foot (23') diameter base with four-foot (4') stackable rings built on top of each other with a six-foot (6') cone topper. The bottom two (2) rings (eight foot [8'] overall height) must have expanded metal security grids welded into the framework with one (1) lockable access door on bottom ring. Framework is built with one inch (1") square tubing attached with approx. 220 U-bolts. Framework to be guy wired internally to eliminate any external guy wires.

PALM TREE WRAP AND SHRUB MINI LIGHTS REQUIRED SPECIFICATIONS

1. Lights must be wrapped with a space of no more than five inches (5") apart. All male and female connections must be taped together to prevent any water intrusion. All palm tree trunks to be wrapped with warm white led lights sets with the bottom fronds to be outlined with alternating green and red led lights. All small shrub style bushes to be wrapped in warm white led.
 - A. **Certifications:** UL, Energy Star
 - B. **Lights:** Seventy (70) 5mm led wide angle warm white, red and green, full wave, steady (not twinkle), twist proof, non-removable
 - C. **Dimensions:** Six-inch (6") lead, four-inch (4") spacing, six-inch (6") tail, twenty-four foot (24.0') total length
 - D. **Power:** 4.83 total watts, 0.069 watts per bulb, 120 volt, forty-three (43) max sets connected

- E. **Plugs:** Fused/stackable male plug, end-to-end connectors
- F. **Wire:** Green wire, 22-gauge
- 2. **Features:**
 - A. Bulbs shall be virtually unbreakable, and colors never fade, chip or crack
 - B. LED bulbs remain cool to the touch
 - C. If one light goes out, the rest stay lit
 - D. Tighter twist wire to reduce tangling for a cleaner look
 - E. Indoor/outdoor use
 - F. Three (3) year warranty

POLE TRIM GARLAND WRAP WITH RED GLITTER BOWS REQUIRED SPECIFICATIONS

1. **Unlighted:** Twenty-five feet (25') of six inch (6") diameter rope style 1/8" fine cut natural two/tone green opaque garland (light & dark green PVC film 5.2 mil, bound together with two (2) 17 gauge wire that has been machine twisted at a 3: 1 ratio) to be evenly spiral wrapped, all at the same slight angle on select downtown poles. Garland to be attached to the pole with heavy duty 175lbs tensile strength UV tie wraps.
2. **Lighted:** Twenty-five feet (25') of six inch (6") diameter rope style 1/8" fine cut natural two/tone green opaque garland (light & dark green PVC film 5.2 mil, bound together with two (2) 17 gauge wire that has been machine twisted at a 3: 1 ratio with C7 retro fit green LED lights placed every six inches (6") on 18-gauge wire (fifty [50] total lights to be evenly spiral wrapped), all at the same slight angle on select downtown poles. Garland to be attached to the pole with heavy duty 175lbs tensile strength UV tie wraps.
3. **Branch garland unlighted:** 14-4-2 natural two/tone green opaque color, branch size 4.5" diameter with a total width of fourteen inches (14"), with two (2) branches every four inches (4"). Petals are 1/8" fine cut natural two/tone green opaque garland light & dark green PVC film 5.2 mil, bound together with two (2) 17-gauge wire that has been machine twisted at a 3: 1 ratio.
4. **Red glitter bows:**
 - A. Twenty-four inch (24") heavy duty vinyl plastic (23 mil minimum) with reinforced wooden inner support structure.
 - B. Glitter to be a minimum .008hex fire red poly*flake UV glitter applied to both sides of bow.
 - C. Mounting clip must be attached to the back of wooden support structure of bow, standard stainless-steel band-it brack-it part no. D02189 (or equivalent) to be used to keep bow in the correct mounting position. Affixed with a minimum of one (1) heavy duty 175lbs tensile strength UV tie wrap.

ICE DROP LIGHTS REQUIRED SPECIFICATIONS

1. Twelve-inch (12") tubes have thirty-two (32) individual LED lights placed on both sides of circuit controller inside the tube.

2. Twenty-inch (20") tubes have sixty-four (64) individual LED lights placed on both sides of circuit controller inside the tube.
3. Thirty-two-inch (32") tubes have ninety-six (96) individual LED lights placed on both sides of circuit controller inside the tube.
4. All tubes operate independently on random speeds of trailing light falling.
5. Ice drop lights operate on 12v low voltage transformer.

POLE MOUNT DISPLAYS REQUIRED SPECIFICATIONS

1. Light poles to be decorated with a combination of seven feet (7') to eight feet (8') holiday displays, which can include, eight feet (8') stockings, eight feet (8') soldiers, eight feet (8') double flower poinsettias, four feet (4') to five feet (5') wreaths, candles, and a variety of trees.
2. All garland style pole mounts to be equipped with heavy duty c9 eagle type twist on sockets on 14-gauge wire.
3. All silhouette style displays to have c7 retrofit led style sockets taped to the frame for maximum visual awareness.
4. Vendor must have at least twenty-five (25) different styles of pole mount displays in there working inventory to choose from.
5. All mounting hardware for the poles must be secured with at least five (5) stainless steel bands for decoration over five feet (5') in height.

PLUG REQUIRED SPECIFICATIONS

1. **Plugs:** 18/2 slide on male plug white
2. **Wire Insulation:** SPT1 ,18/2
3. **Amp Capacity:** 10
4. **Color:** white
5. **Usage:** indoor/outdoor