

**CONSTRUCTION STANDARDS HANDBOOK
FOR
WORK WITHIN THE PUBLIC RIGHT-OF-WAY
COLLIER COUNTY, FLORIDA
STREETSCAPE IMPROVEMENTS**

APPENDIX

**DESIGN AND PERMITTING
CHECK LIST**

PROJECT NAME: _____

DESIGNER: _____

DATE SUBMITTED: _____

I. For Collier County Permit Submittal

- Complete Right-of-Way Permit Application.
- Submit four (4) sets of plans for preliminary review by Transportation Landscape Operations Section.
- Submit two (2) sets of reviewed final plans to Collier County Development Services.

II. Landscape Plans

- Project consultant, address, phone number and fax number.
- Drawn to appropriate scale for construction purposes, but 1" equals 20'-0" scale is recommended showing dimensions and/or base line with station points.
- North arrow and graphic scale.
- Date.
- Title.
- Site location map/sheet index.
- Chart or schedules indicating:

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- Graphic plant symbols, key or items.
 - Botanical and common name.
 - Plant quantity.
 - Native status.
 - Drought Tolerance Rating per South Florida Water Management District Xeriscape Plant Guide II or Latest Edition.
 - Height and spread at maturity.
 - Proposed Plant Spacing.

- Show:
 - The 12” clear mulch area behind back edge of curb to the plant’s mature edge.
 - Limit of Clear Sight Distances and Sight Window Details per Ordinance # 93-64.
 - Plant material selection and placement meet height and setback requirements at maturity.
 - Existing or proposed median encroachments (i.e. existing utilities, structures and signage).
 - Indicate on plans the roadway’s existing posted speed limits.
 - A Maintenance of Traffic Plan consistent with Collier County MOT Policy #5807 and F.D.O.T. standard Indexes 600 Series.
 - Existing Utility Companies (name and phone number) with Utilities in the project area.

III. Irrigation Plans

- Project Design Consultant’s, Address, Phone Number and Fax Number.

- Drawn to appropriate scale for construction purposes, but 1” equals 20’-0” scale is recommended showing dimensions and/or base line with station points.

- Show:
 - Mainline Piping, Pipe Sizes, Valve Locations, Wiring if Located other than along mainline.
 - Mainlines shall not be Placed in Future Turn Lanes or under Tree Locations).
 - Valve Locations (Recommend Hardie Valves in over-size Concrete or Plastic Valve Boxes with Labeled Lids).
 - Controller Approved by Collier County Transportation Department Landscape Operations Section.

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- Reduced Pressure Back Flow Preventor with Installation Detail as per Collier County Utilities Department.
 - Rain/Freeze Shut-Off Switches with by-passes.
 - All Pipe Sizes, Strength or Ratings.
 - Type and Location of Sprinkler Heads and Nozzles.
 - Electrical Meter Service and Locations.
 - Flex Pipe details.
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- Reclaimed (Non-Potable) Irrigation Piping and Valve Boxes. All piping main line and laterals shall be color coded for reclaimed water per Collier County Ordinance 98-37 and State Statues.
 - Reclaimed (Non-Potable) Irrigation Signage.
 - Zone Plant Beds and Turf Beds separately.
 - Quick Coupler Valves at each median or on three hundred (300) foot centers (recommend Rainbird Quick Couplings Valves with Keys and Hose Bib Swivel).
 - PVC Ball or Gate Type Valves installed prior to the Control Valves within the Control Valve Box or in a separate round box prior to the Control Valve Box.
 - Approved Irrigation Head Protective Devices as required.
 - Low Angle and/or Volume Nozzles.
 - Controllers to be wired so zones or valves are in consecutive order.
 - All necessary Specifications and Details per Industry Standards.
 - Description and location of easement.
 - Water Use Data/Schedules.
 - A Maintenance of Traffic Plan.
 - Existing Utility Companies (name and phone number) with Utilities in the project area.
 - Other pertinent information that affects the project.

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IV. As Built/Record Drawings

- Submit As Built/Record Drawings of the landscape installation showing plant quantities and/or square footage amounts of mulch and turf installed. Locations and sizes of all irrigation facilities shall be shown on a separate set of plans. Plan submittal to be in mylar reproducible format and electronic format compact disk (CD) in Autocad 14 or more recent version.

V. Plant Material Selection

- Low maintenance and minimum pruning type plants.
- Spacing and quantity based on mature plant development.
- Consider plants water requirements.
- See Prohibited Plant Species or Limited Use List.
- Minimum Florida #1, or better grade.
- Use container grown material.
- Soil type pH requirements.

VI. Soils

- Submit a soil analysis with landscape plan submittal and another of amended soil prior to the landscape installation.
- Finish grade at back of curb to be four inches (4”) below top of curb within planting beds and three inches below top of curbing in turf areas prior to installation of materials.

VII. Mulch

- Organic Mulch to be applied at a minimum four inches (4”) fluffed depth with a Grade “A” product.

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- Finished Grades for mulches shall be four inches (4”) below top of curbing pavement or sod areas.

VIII. Turf

- Medians with widths of sixteen feet (16’) or less shall contain no sod. They shall be replanted with groundcovers, small shrubs and appropriate trees or plants.
- Sod areas to be interconnected in the medians when used.

IX. Curbing

- Medians and/or Right-of-Way Planting Areas.

X. Sight Distance at Intersection And Median Openings Limit of Sight Lines

- All Landscape Designs and Installations shall comply with the required clear sight limits and windows per the F.D.O.T. or Collier County Design Standards applicable at the time of Permitting and Approval.

XI. Summary

- Right-of-Way Landscape Planners and Designers are encouraged to review all F.D.O.T. and Collier County Codes, Ordinances and Design Standards prior to beginning the Permitting and Design of a Right-of-way Landscape Project. Emphasis must be placed on motorist, pedestrian and maintenance personnel safety.
- Reduced maintenance and water conservation designs are recommended.