



Engineering Department
 195 N. 145th Ave., Building D
 Goodyear, Arizona 85338

**LANDSCAPE PLAN
 CHECKLIST**
 Revised on 7/23/2018

The landscape checklist shall be used as a guide only for landscape design and construction. This guide shall not be interpreted as an absolute list of requirements. The City of Goodyear may reserve the right to request additional documentation and information to guarantee a development meets and complies with all City guidelines, ordinances, codes, agreements, details and the MCDOT Roadway Design Manual.

The landscape drawings are considered part of the improvement plan approval process and shall be submitted along with the civil development plans. If civil development plans are not necessary, the landscape plans will be recognized and accepted for review independently.

CONSTRUCTION PLAN REVIEW REQUIREMENTS

- Landscape construction documents shall comply with the approved site plan, civil plans, design stipulations and overall coverage requirement.
- Provide one stamped approved reference copy of the approved site plan and stipulations with the first submittal package.
- Landscape design must be compatible with adjacent properties.
- Prepare landscape drawings on a 24" x 36" sheet with a minimum 2" left border and ½" border on all other sides.
- Additional information and requirements on the City of Goodyear Landscape Standards, please reference Chapter #7 of the City of Goodyear Engineering and Design Guidelines and/or Article #5 of the City of Goodyear Zoning Ordinance.

COVER SHEET

<input type="checkbox"/>	Project Name	<input type="checkbox"/>	Landscape Architect Contact Information
<input type="checkbox"/>	Project Address	<input type="checkbox"/>	Project Engineer Contact Information
<input type="checkbox"/>	Vicinity Map	<input type="checkbox"/>	Owner/Developer Contact Information
<input type="checkbox"/>	Landscape Approval Block	<input type="checkbox"/>	As-built Certification Block
<input type="checkbox"/>	North Arrow	<input type="checkbox"/>	Blue Stake
<input type="checkbox"/>	Key Map	<input type="checkbox"/>	Plan Review Case Number (Assigned)
<input type="checkbox"/>	Landscape Architect Signature/Seal	<input type="checkbox"/>	Plan Scale: 1" = 30' min., 1" = 20' preferred
<input type="checkbox"/>	Maintenance Provider	<input type="checkbox"/>	Water Provider
<input type="checkbox"/>	Landscape Area (Square Feet)	<input type="checkbox"/>	City Maintenance Area (Square Feet)
<input type="checkbox"/>	Mainline connection/water source location	<input type="checkbox"/>	Mainline trench in the rights-of-way (l.f.)
<input type="checkbox"/>	Planting Schedule (Size/Quantity)	<input type="checkbox"/>	Irrigation Schedule

GENERAL PLAN REQUIREMENTS

- Show Mailbox locations and structural details including building material and colors (per pre plat stips).
- Identify features and amenities existing and/or new.
- Landscape plans shall have the same basic geometric layout as civil plans.
- Provide a dimension from the centerline of the right-of-way to the property line.
- Identify the location of water, sewer and storm drain service. Coordinate these locations with the civil base file.
- Identify all fire hydrant locations, new or existing.
- Identify all retention area and provide contour elevations (i.e. 4:1).

- Identify match lines with sheet references.
- Label all roadways.
- Identify all sidewalks, curbs and curb cuts.
- Identify all overhead power lines, street lights and traffic signals.
- Identify any project walls and monument signage outside the rights-of-way and public utility easements.
- Provide all required general notes found at the back of this checklist.
- Identify all known locations of traffic signage providing for 50' of unobstructed visibility at all times.

PLANTING INFORMATION

- Any plant material in the public rights-of-way shall comply with all the requirements of the City Code and with the criteria of the Arizona Department of Water Resources (ADWR). The criterion specifies plant material which has low water needs and encourages the conservation of our water resources.
- Each plant type shall be identified by its botanical and common name.
- Each plant type shall have its own individual symbol.
- All salvage and existing plant material shall be cataloged and identified by their botanical and common name.
- Unless otherwise specified, all trees shall be a minimum of fifteen (15) gallons in size and at least fifty (50) percent of those trees must be twenty-four (24) inch box or larger in size.
- All shrubs shall be a minimum of five (5) gallon in size.
- All landscape areas shall be finished with a natural topping material which may include, but not limited to, the following: turf, groundcover, planting, decomposed granite two (2) inches at minimum depth.
- Plant material that is high in pollen production is discouraged. Extreme care should be exercised when using plant material that is known to be poisonous.
- Plant material shall be placed in such a way as to maximize survivability (i.e., low water use plants should not be placed in drainage ways, and the use of frost-tender plants should be limited to accent locations, not primary focal points).
- All trees selected shall be compatible with the overall site and landscape plan, as well as adjacent sites.
- A minimum of one (1) tree shall be planted for every twenty-five (25) feet of lineal street frontage.
- All plant material selected for placement in retention areas, park facilities, rights-of-way and City maintained facilities shall come from the City of Goodyear Approved Plant list.
- When Olive Trees (*Olea europaea*) are specified, they shall be the "Swan Hill" variety.
- All Mexican Fan Palms (*Washingtonia robusta*), California Fan Palms (*Washingtonia filifera*), and Queen Palms (*Cocos plumosa*) shall have a minimum five (5) foot trunk height measured from the base of the trunk to the base of the fronds when located within the public rights-of-way or within fifty (50) feet of the street property line.
- Plant material shall not interfere with any and all traffic signage. Allow for fifty (50) feet of unobstructed visibility at all times.
- Plant material shall be grouped according to similar water needs.
- No turf will be allowed within the City of Goodyear rights-of-way without special approval. Special approval must be demonstrated with the approved Final Plat.
- Turf shall be quantified by the total square feet on planting schedule.
- Low water use trees, shrubs, flowers and groundcover are to be used in conjunction with desired landscape material.
- No plant material will be allowed within seven (7) feet of a fire hydrant. No plant material will be allowed between fire hydrant and curb.
- Unless otherwise noted, decomposed granite shall be extended under plant material.

- Decomposed granite shall be selected from the City of Goodyear Approved Plant List and comply with adjacent properties where applicable. All D.G. shall be ¾” minus.
- Shrubs planted within the safety triangle are to have a mature height of not more than eighteen (18) inches. Height shall be from edge of pavement, and total height shall include the height of any mounding. Groundcover is preferred.
- Trees planted within the safety triangle are to have a clear trunk pruned to a height of seven (7) feet or greater upon installation. Height shall be from edge of pavement, and total height shall include the height of any mounding.
- Palm trees shall not be installed in the rights-of-way unless the maintenance and water for the palm trees are provided by the owner.
- Moderate and high water plant material shall be replaced with low water use landscapes – xeriscapes.
- Trees shall provide a ten (10) foot minimum setback from all water, sewer and storm drain service. Any trees located within this setback shall call out the use of a bio-barrier or be relocated outside of this type of easement.
- The maximum distance between shrubs, trees and ground cover limits on the project site shall not exceed 7’-0”.
- Trees shall be located so that the mature tree canopy does not extend into the street.
- All trees with spreading habits, seed pods or thorns shall be planted a minimum of fifteen (15) feet from walls, walks and pavement.
- Tree placement between sidewalk and curb along arterial and collector roadways is discouraged.
- Sand shall be double washed premium bunker sand at a minimum 12” depth.
- Thornless and non-deciduous tree shall be selected for placement in parking areas with one tree being provided for every 5 parking stalls.
- All retention basins shall receive a minimum average of 10 trees per acre, base upon the net acreage, with a minimum of three varieties and a maximum of seven varieties.
- Multi-trunked trees will not be permitted in a retention basin.

Plant Details

	Trees		Cacti		Ground cover
	Shrubs		Salvage		D.G.
	Palms		Ocotillo		Other

LANDSCAPE WATERING SYSTEMS – DESIGN REQUIREMENTS

All watering systems installed in the City shall conform to the following specifications:

- All irrigation systems and landscape areas shall be designed, constructed, and maintained as to promote water conservation and prevent water overflow or seepage into the street, or parking area.
- All watering systems shall be automatic, and shall utilize a pressure type vacuum breaker or reduced pressure vacuum breaker (as required) before the control valves.
- City of Goodyear maintained standard equipment: Reference Chapter #7 of the Engineering Design Standards and Policies Manual.
- All watering systems must be independent of other users, i.e. landscape dedicated to the City for maintenance shall have a separate power and water meters from all other landscape watering systems.
- Friction pressure loss calculations for the longest run in the system for both full-circle and part-circle circuits shall be provided along with all other details which may be required to verify the capabilities of the system.

Irrigation plans:

- Plans shall indicate existing design and minimum operating water pressure requirements.
- Identify the location of the power source.
- Identify the water source and location of proposed tap.
- Specify brand, model, diameter, pressure rating and/or size of each material item used in the construction of the water system.
- Show details for controller valves, pressure regulators, backflow prevention devices, security enclosures, valve boxes, flush caps, trenching, backfill, controller security cabinets, sprinklers, emitters, bubblers and all other details necessary and applicable for review.
- Provide a legend on each irrigation plan sheet.
- Trees and shrubs shall be on separate valves.
- Power source to be located within a median or within the right-of-way behind the curb. If the power source cannot be located within the right-of-way a utility easement must be provided.
- Show the location of sprinkler heads and bubblers when applicable.
- Provide an emitter schedule or show emitters.
- Mainline and lateral lines to be sized on plans or with pipe size schedule.
- Class 200 is the minimum allowable class of pipe for laterals.
- Mainline shall be SCH40.
- Identify water point of connection, controller location, power-point-of-connection, and backflow prevention unit.
- Use of bubblers in the right-of-way, medians or City maintained areas are prohibited without prior approval.
- Install an isolation ball valve to all control valves.
- Gravel sump, pea gravel shall be a minimum six (6) inches in depth in valve boxes.
- PVC sleeve depth under roadways shall be a minimum of twenty-four (24) inches to the top of sleeve. Trenches for irrigation mainlines shall be a minimum of eighteen (18) inches in depth. Trenches for lateral lines shall be a minimum of twelve (12) inches in depth.
- Provide a quick coupler at all ramadas and playgrounds.
- Quantify the total lineal footage of mainline trenching in the right-of-way on plan cover sheet.
- All mechanical equipment, electrical meters and similar utility devices shall be screened from the public view with appropriate plant material.
- Appropriate irrigation facilities must be shown and demonstrated on plans to sufficiently water a large turf area within an eight (8) hour period as required. A pressure-type vacuum breaker shall be required with the installation of all sprinkler systems.
- No galvanized pipe shall be used.
- Pressure vacuum breaker or reduced pressure assembly shall be used.
- All irrigation pipe shall be 1" minimum.

HARDSCAPE

- Structures, fireplaces, and barbeques are not allowed to be constructed off of the landscape plans. These amenities are shown for reference only and shall be submitted to Building Safety for construction review and approval.
- All walls and monument signage shall be referenced on the landscape plans behind the rights-of-way and public utility easements.
- All tot-lots require an approved shade canopy.
- One-third of any boulder shall be set in the ground. Maximum vertical exposure shall be eighteen (18) inches above grade.
- Sidewalks located in park areas shall be 8' minimum for pedestrian traffic and 10' minimum for multi-use.

MEDIAN LANDSCAPING

- The first ten (10) feet and the last ten (10) feet of a median are to be decorative concrete (stamped concrete, exposed aggregate, etc. – as approved by the City.
- Trees shall be located a minimum of five (5) feet from the back of the median curb. Mature tree canopy size shall be considered and may require a greater setback.
- Decomposed granite shall be ¾” minus.
- Decomposed granite shall be selected from the City of Goodyear Approved Plant List.
- Trees shall be provided at the rate of one (1) tree per each 25-lineal feet of median length.
- Reference: Chapter #7.2 of the Engineering Design Standards and Policies Manual for further information.

NON-PAVED TRAILS

- Reference: Chapter #7.4 of the Engineering Design Standards and Policies Manual for further information.

RESTRICTED LANDSCAPING

- Reference: Chapter #7.4.7 of the Engineering Design Standards and Policies Manual for further information.

NATIVE PLANT RELOCATION & REVEGETATION

- Reference: Chapter #7.5 of the Engineering Design Standards and Policies Manual for further information

PARK FACILITIES

- Reference: Chapter #7.6 of the Engineering Design Standards and Policies Manual for further information

PLAYGROUNDS

- Playgrounds shall contain some type of shading, either from ramadas (16-ft x 16ft minimum) and/or non-deciduous trees (30-inch box minimum).
- Tot-lots require the installation of a shade canopy.
- Playgrounds shall meet or exceed all current U.S. CPSC, ADA, and ASTM Standards.
- Sand shall consist of double washed premium bunker sand, at a minimum of 12-inches.
- Please contact the City Parks Department for specific direction and playground construction and inspections.

FLOOD RETENTION BASINS

- Reference: Chapter #7.7 of the Engineering Design Standards and Policies Manual for further information.

SIGHT VISIBILITY AREAS

- Residential street site visibility areas shall be determined per Chapter #4 of the Engineering Design Standards and Policies Manual.
- Arterial and collector roadway site visibility areas shall be determined using the criteria set forth in Ch. #9 of the MCDOT Roadway Design Manual.

AS-BUILT DRAWINGS

- Reference: Chapter #10.1 of the Engineering Design Standards and Policies Manual.
- Identify the water source and location of proposed tap.
- Specify brand, model, diameter, pressure rating and/or size of each material item used in the construction of the water system.

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- Show details for controller valves, pressure regulators, backflow prevention devices, security enclosures, valve boxes, flush caps, trenching, backfill, controller security cabinets, sprinklers, emitters, bubblers and all other details necessary and applicable for review.
 - Additional information and checklist can be located on the C.O.G. website under the Engineering page.

LANDSCAPE PLAN REVISION: POST APPROVAL:

- All post approval landscape revisions shall be submitted to the front counter of Engineering for review and consideration.
- Provide deltas and clouding to clearly delineate the proposed revision.
- Provide the original mylar cover sheet and include a re-approval block for signature.
- Identify the sheet numbers for proposed revisions on the cover sheet for review and consideration.

REQUIRED PLAN NOTES

*All plans for landscaping construction shall have the following shown on either the cover or detail sheet.