

## ARTICLE XII

# T&R, TECHNOLOGY AND RESEARCH DISTRICTS

### PREAMBLE

The T&R Technology and Research Districts are designed to provide for the coordinated development and complementary research, office, applied technology, and light industrial uses in a planned complex which offers a full range of support facilities and services including hotels, recreation, and multiple family housing.

Technology and Research Districts are to be located and designed to:

1. Create employment and activity focal points which benefit the surrounding community.
2. Provide opportunities for establishing mutually supportive relationships with institutions for higher learning.
3. Afford safe and efficient access to and from nearby highway interchanges.
4. Ensure a high standard of visual and environmental quality by preserving significant open spaces, protecting natural site amenities, and strictly limiting the nuisance impacts sometimes associated with light industrial operations.
5. Create a unified District image through coordinated infrastructure development, site planning, and architectural design.

*(Amended: 11-11-02 per Ordinance No. 712)*

### SECTION 1200. PRINCIPAL USES PERMITTED

In the T&R Technology and Research District no building or land shall be used and no building shall be erected except for one (1) or more of the following specified uses, unless otherwise provided in this Ordinance:

1. Any use charged with the principal function of research, design, and development of pilot or experimental products and processes including research labs, training facilities, and light assembly operations as adjuncts to the principal use. Assembly operations shall be limited to those involving premanufactured finished objects and components and shall include only the incidental fabrication, machining, or forming of metal, plastic, or other materials as part of product development, experimentation, demonstration and repair, or the provision of customized components.
2. Data processing and computing centers, and related services.
3. Single and multi-tenant office buildings. Sales as an adjunct to the principal use are also permitted.
4. Accessory buildings and accessory uses customarily incidental to any of the above principal uses permitted (e.g., child care, food service, and health/workout rooms, and other similar adjunct uses provided within a facility which are intended for sole use of the workers of said facility and not the general public).
5. Uses determined to be similar to the above principal permitted uses in accordance with the criteria set forth in Section 1827 and which are not listed below as Special Land Uses Permitted.

*(Amended: 11-11-02 per Ordinance No. 712)*

### SECTION 1201. SPECIAL LAND USES PERMITTED:

The following uses may be permitted under the purview of Section 1818 by the City Council, after site plan review and Public Hearing by the Planning Commission, and subject further to such other reasonable conditions which, in the opinion of the City Council, are necessary to provide adequate protection to the health, safety, general welfare, morals and comfort of the abutting property, neighborhood and the City of Auburn Hills:

1. Retail business conducted wholly within an enclosed building. Such uses shall be accessory to the principal use of the premises. Freestanding retail shopping centers and freestanding restaurants, including drive-through and drive-in restaurants, shall not be permitted in the district.
2. Banks and credit unions with drive-in facilities may be permitted when said drive-in facilities are incidental to the principal function, and subject to the following conditions:

- A. Drive-up stations shall provide at least five (5) queuing spaces eighteen (18) feet long by ten (10) feet wide from each order/transaction station. The lane containing the queuing spaces shall be separate and distinct from other access drives and maneuvering lanes for parking spaces. The queuing space lane shall have a clear width of ten (10) feet and be physically separated from access drives, maneuvering lanes and parking spaces with a landscaped area eight (8) feet wide with raised curbs on all sides.
- B. Drive-up windows shall provide at least ten (10) queuing spaces eighteen (18) feet long by ten (10) feet wide from the window. The lane containing the queuing spaces shall be separate and distinct from other access drives and maneuvering lanes for parking spaces. The queuing space lane shall have a clear width of ten (10) feet and be physically separated from access drives, maneuvering lanes and parking spaces with a landscaped area eight (8) feet wide with raised curbs on all sides.
3. Hotels, motels, and conference centers provided that the total site area is no less than three (3) contiguous acres, direct access is provided to a public right-of-way no less than eighty-six (86) feet in width, and each sleeping room contains no less than two hundred and fifty (250) square feet of floor area.
4. Nursery schools, day nurseries and child care centers provided the following conditions are met:
  - A. Such facilities shall be located on major thoroughfares with an existing or proposed right-of-way of one hundred and twenty (120) feet.
  - B. Any area not used for parking in the front yard shall be kept in lawn and landscaped in accordance with Section 1808.
  - C. Outdoor play areas shall be in the side or rear yard in the amount of one hundred (100) square feet for each child cared for, but at least a minimum of one thousand two hundred (1,200) square feet.
  - D. Whenever the school or center abuts a residential district, parking, drop off, and play areas shall be screened with an obscuring six (6) foot fence or wall, four foot six inch (4'6") high berm with landscaping or a twenty (20') foot wide greenbelt landscaped in accordance with Section 1808, or a combination of the above, whichever in the opinion of the Planning Commission and City Council achieves the objective of screening and controlling noise levels.
  - E. Any other conditions which the Planning Commission and City Council deem necessary to assure that the technology and research character of the district shall be maintained.
5. Multiple family residential dwellings as permitted by Article VI provided that the total site area in any one (1) development is no less than ten (10) contiguous acres and no more than twenty (20) percent of the total developed acreage within the District is developed for multiple family residential use. The requirements of Section 1700 shall also be adhered to.
6. Public, quasi-public, and commercial recreation facilities including parks, golf courses, health and athletic clubs.
7. Light industrial uses listed as Principal Uses Permitted in Section 1300 when conducted wholly within an enclosed building and subject to the Required Conditions specified below in Section 1202
8. Vertical Take-Off and Landing fields (VTOL), and Heliports shall be permitted subject to the following conditions:
  - A. The minimum site size for heliports shall be one (1) acre, unless the location or other circumstances would dictate a smaller site, and shall conform in dimension to the requirements of the FAA.
  - B. Any petitioner for a heliport shall prepare a written statement to City Council addressing at least the following factors:
    1. Minimum obstructions in the approach and departure area.
    2. Minimum disturbance from noise and desirable location with regard to adjacent land use.
    3. Access to surface transportation.
    4. Safety precautions for the control of pedestrian and vehicular circulation in relation to the heliport.
9. Wireless communication facilities in accordance with the standards and requirements listed in Section 1832. Wireless Communication Facilities, except for co-location applications which are

- subject to the administrative review provisions listed in Section 1832, Item K.
10. Vehicular evaluating tracks, provided the following conditions are met:
    - A. The track shall be screened from public view in accordance with Section 1808, Greenbelts, Walls, and Landscaping.
    - B. Any outdoor lighting shall be shielded in compliance with Section 1810, Exterior Lighting.
    - C. The noise limitations and other requirements of Section 1807, Performance Standards, shall be adhered to.
    - D. Adequate safeguards shall be provided to prevent the trespass of animals onto the track.
  11. Outside storage of test vehicles overnight only when the vehicles are accessory to the principal use of the premises. Space for said outside storage of test vehicles shall be provided in addition to required parking. Such areas shall be screened from adjacent public right-of-ways and properties with a minimum twenty-five (25) foot landscaped greenbelt with staggered eight (8) foot evergreen trees. Alternative screening techniques within the minimum twenty-five (25) foot landscaped greenbelt shall be at the discretion of the City Council, after recommendation from the Planning Commission.
  12. Accessory buildings and accessory uses customarily incidental to any of the above special land uses permitted.
  13. Special land uses determined to be similar to the above special land uses in accordance with the criteria set forth in Section 1828. The application for Special Land Use Approval will be evaluated on the basis of the following criteria in addition to the requirements of Section 1818. Will the proposed development:
    1. Have an adverse effect on the ambient noise level for a significant number of people?
    2. Have an adverse visual or aesthetic effect?
    3. Adversely divide or disrupt an established community, or divide existing uses?
    4. Have an adverse effect on areas of unique interest or scenic beauty?
    5. Destroy or detract from important recreational areas?
    6. Interfere with important wildlife breeding, nesting, or feeding grounds?
    7. Significantly increase air or water pollution?
    8. Adversely affect the water table of the area?
    9. Cause excessive congestion on existing ground transportation facilities?
    10. Adversely affect the Master Land Use Plan for the area and the City?

*(Amended: 3-06-00 per Ordinance No. 658)*  
*(Amended: 11-11-02 per Ordinance No. 712)*  
*(Amended: 10-06-03 per Ordinance No. 726)*

#### SECTION 1202. REQUIRED CONDITIONS:

Principal and Special Land Uses Permitted shall be subject to the following conditions, as applicable:

1. Building Height:  
Any building over four (4) stories shall require the approval of the City Council in accordance with Section 1818. Any mechanical equipment on the roof of the building, and penthouses on the building, may not be more than twenty (20) feet in height. Mechanical equipment and penthouses are not counted as a story for purposes of this Section.
2. Setbacks:
  - A. Buildings containing office uses, light industrial uses or research-related lab and/or assembly operations, or any mixture of said uses, shall be setback a minimum of fifty (50) feet from any public right-of-way. Minimum side and rear yard setbacks specified in Section 1701 for I-1, Light Industrial uses shall be observed.
  - B. Buildings four (4) stories or taller shall provide a minimum front, side, and rear setback equal to the height of the building.
  - C. Nursery schools, day nurseries, and child care centers shall observe the minimum setback requirements specified in Section 1701 for the B-2, General Business district.
  - D. Hotels, motels, and conference centers shall be set back a minimum of fifty (50) feet from any public right-of-way. Minimum side and rear yard setbacks shall be equal to the height of the building.

- E. Public, quasi-public, and commercial recreation buildings shall be setback a minimum of fifty (50) feet from any public right-of-way. Minimum side and rear yard setbacks specified in Section 1701 for B-2, General Business uses shall be observed.
  - F. All buildings shall be located at least one hundred (100) feet from any residential development.
  - G. All residential uses shall observe the applicable minimum setback requirements specified in Section 1700.
3. Landscaping and Buffers:
- A. Landscaping shall be provided in accordance with the requirements of Section 1808.
  - B. A minimum twenty-five (25) foot landscaped greenbelt shall be provided abutting public right-of-ways in accordance with Section 1808 and kept free of parking.
  - C. A minimum twenty-five (25) foot landscaped greenbelt with staggered eight (8) foot evergreen trees shall be provided between residential and non-residential uses. Alternative screening techniques within the minimum twenty-five (25) foot landscaped greenbelt shall be at the discretion of the City Council, after recommendation from the Planning Commission.
  - D. For each one (1) story increase over four (4) stories, an additional three (3) feet of greenbelt shall be added to the greenbelt required by Section 1805, Item 12. This provision shall not apply to the twenty-five (25) foot required greenbelt.
4. Outside Storage:  
No outside storage shall be permitted, with the exception of outside storage of test vehicles as provided in Section 1201(10).
5. Off-Street Parking:  
Off-street parking shall be provided in accordance with Sections 1804 and 1805.
6. Cross-Access Interior Drives:  
Cross-access interior drives, or drives that will allow vehicles to move from one site to another without entering the frontage street, may be required.
7. Off-Street Loading:  
Off-street loading space shall be provided in accordance with Section 1701, Item p and Section 1806, with the exception that office uses shall provide paved loading space at a ratio of ten (10) square feet per front foot of building.
8. Performance Standards:  
All development shall adhere to the Performance Standards specified in Section 1807.
9. Protection of Natural Amenities:  
Natural terrain and amenities shall be protected and preserved to the greatest extent possible.
10. Site Plan Review:  
Site plan review and approval is required for all development within the District in conformance with Section 1815.
11. Freestanding Lighting:  
Freestanding light poles shall not exceed forty (40) feet in height and lighting shall be shielded onto the site so as to not become a nuisance to adjacent areas.

*(Amended: 3-06-00 per Ordinance No. 658)*  
*(Amended: 11-11-02 per Ordinance No. 712)*  
*(Amended: 10-06-03 per Ordinance No. 726)*

#### SECTION 1203. AREA AND BULK REQUIREMENTS

See Article XVII, Schedule of Regulations, for additional requirements limiting the height and bulk of buildings and not in conflict with this Article XII.