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NOTE

This **OFF-STREET PARKING AND DRIVEWAYS HANDBOOK** is a guideline, and is not intended to replace the city code, or state or federal law. Always check the city code, state and federal law for details, exceptions, and amendments.

In the event of a conflict between this document and the city code or other legal authority, the city code or other legal authority supersedes.
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PART ONE
DRIVEWAYS

I. INTRODUCTION
Any owner, authorized agent, lessee, or contractor who intends to construct, enlarge, or alter any driveway approach within the City of Dallas right-of-way must first apply to the Building Official to obtain a permit.

The issuance of driveway permit is based on compliance with several ordinances and policies governing the location and design of driveways.

This document is intended to guide interested parties through these policies by providing information necessary in planning a safe and efficient access point for their property.

Reference:
Dallas City Code, Sec. 43-78 thru 43-95, and Sec. 43-140 thru 43-146,
Public Works and Transportation, Standard Construction Details, File 251D-1, Sept 2002,

II. CHOOSING LOCATION FOR A DRIVEWAY
The location and layout of a driveway can have considerable impact on the effective operation of adjoining streets and of the property itself. It is for this reason that the City of Dallas has adopted several policies regulating the location of driveways.

Applicable policies and statutes include those governing the coordination of driveway access with street function, and those outlining limitations regarding potentially hazardous environmental conflicts.

A. COORDINATING DRIVEWAY ACCESS WITH STREET FUNCTION
Several of the policies that the City has adopted with regards to driveway location involve an appraisal of the driveway’s impact on the adjoining street’s operation. This evaluation is often dependent on what is called the functional classification of the street.

1. Determining Street Functional Classification
Streets are classified into three functional classes: local streets, collectors, and arterials.

Local Streets provide access to adjacent property, and generally link properties to the formal roadway network.

Collectors provide the link between the local streets and the arterials. They serve the function of collecting or distributing traffic between the arterials and local streets.
Arterials provide the link between areas of the city by moving traffic within the city and between cities. Arterials provide a minimal role in providing property access, and their use as such should be limited to major traffic generators only.

To determine the official classification of a given street, refer to the City of Dallas Thoroughfare Plan or consult with an appropriate city official.

2. Choosing the Street for Access
In situations where a property has access to two (2) or more streets, City of Dallas policy prescribes locating driveways on those streets whose function is most consistent with providing appropriate access.

In new development, for residential property abutting a divided thoroughfare, driveway access to the thoroughfare is not allowed. Refer to Dallas City Code 51A-8.503(c).

3. Spacing Between Driveways
When driveways are located too close together, areas of conflict with the main flow of traffic overlap causing an increase in the accident potential for the area and a reduction in the operating efficiency of the street. This effect is much more exaggerated on higher-speed facilities such as arterials whose designs are intended to promote efficiency through movement.

For this reason, the City of Dallas recommends desirable spacing between driveways for a given street functional classification (see Table 1).

Should a property not be of sufficient frontage to provide this spacing, joint driveway access with an adjacent property may be pursued as a desirable solution.

The following are additional points to consider:
* The minimum distance between driveways, measured from the edges of driveway throats, is normally 20 feet except for local streets.
* The island separating a pair of one-way, 90-degree driveways should have a minimum width of 20 feet (Dallas City Code, Sec. 43-85). The island between a pair of angle-driveway approaches should equal or exceed 75 square feet in area.
* The number of driveway approaches serving a property abutting arterials should be minimized. No more than two driveway approaches should be designed on any parcel of property with a frontage of 150 feet or less (Dallas City Code, Sec. 43-84). Driveways generating at least 250 vehicles in a 12-hour period should be located and designed to align with existing or proposed median opening to facilitate efficient and safe traffic access.
* Driveways should be designed to line up with the centerline of existing driveways on the other side of street.
4. **Property Clearance for Driveway**

Property Clearance is the distance between the side property line (perpendicular and intersecting with the roadway) and the nearest edge of the driveway.

The minimum property clearance distance is shown in Table 1 and Figure 1.

Dallas City Code also requires that the driveway’s curb radius not encroaching upon the property line of adjacent properties.

See City of Dallas, Standard Construction Details, File 251D-1 for more details.

5. **Intersection Clearance for Driveway**

Spacing between the adjacent cross-street and a driveway should be adequate to avoid having driveway-conflict-areas which would interfere with the safe and efficient operation of the intersection.

In addition, queuing, which occurs at signalized intersections, can interfere with the movement of vehicles into and out of the property. Tables 2 and 3, and Figure 2 specify City of Dallas requirements for minimum clearances to intersection for driveways.

6. **Joint Driveway Access**

Sharing driveway access with adjoining property owners is an option that is encouraged by the City, and is in most cases permitted providing that joint application is made by all affected parties.

The utilization of joint driveways can be beneficial to those properties that abut arterials with relatively restricted access points.

7. **Driveways on Service Roads, or near Railroad**

Driveway cuts on service roads not operated by the City of Dallas, such as State Highways and Tollway facilities, are regulated by the appropriate governmental agency. Therefore, plans for any access abutting such facilities must be approved by the appropriate party as well as by the City of Dallas (See Figure 3).

A driveway approach must not be located within 50 feet of a railroad right-of-way.

B. **ENVIRONMENTAL CONSTRAINTS FOR DRIVEWAYS**

In planning the location of a driveway, it is important to be aware of several environmental constraints that may influence the placement of the driveway.
1. **Proximity to Utilities and Drainage Devices**
   Dallas City Code prohibits the location of driveways within three (3) feet of any utility structures within the public right-of-way. These include fire hydrants, power poles, guy wires, anchors, and mailboxes.

   Provisions for the possible relocation of these impeding structures are addressed in the Dallas City Code, Sec. 43-141.

   An additional regulation in this respect addresses a driveway’s proximity to stormwater drainage curb inlets: the point of tangency between the driveway radius and the street curb shall not be located within ten (10) feet of the edge of a curb inlet.

2. **Adjacency to Free Right-Turn Lanes**
   Refer to Figure 2 for driveways located adjacent to free right-turn lanes because of the difficulty for vehicles performing weaving movements necessary to exit the property across the free right-turn lane in order to merge with the through-traffic.

3. **Coordinating with Existing Roadway Features**
   When choosing a location for a driveway, the existing roadway features such as median openings, opposing driveways, and cross streets should be examined.

   Creating offsets with opposing driveways or streets that might create left-turn conflicts should be avoided. If any median openings exist or are proposed, align the driveway with the median opening or locate the driveway a sufficient distance away from the median opening so that drivers do not attempt to use the median opening illegally (by driving a short distance against the flow of traffic to enter or exit the property).

   Also, careful coordination of the driveway’s location with the internal circulation patterns of the property is important.

4. **Providing Adequate Visibility for a Driveway Approach**
   a. **Visibility Triangles at a Driveway Approach**
      It is important that vehicles using the proposed driveway approach be provided sufficient sight distance to allow safe and non-conflicting egress and ingress from the property.

      To provide for such visibility, the City of Dallas requires an unobstructed path of sight called “Visibility Triangle” for driveway approaches, as shown in Figure 4.

      According to Section 51A-4.602(d)(2)(C) of the Dallas Development Code, the visibility triangle at a driveway approach means the portion
of a lot within a triangular area formed by connecting together the point of intersection of the edge of a driveway or alley and an adjacent street curb line (or, if there is no street curb, what would be the normal street curb line) and points on the driveway or alley edge and the street curb line twenty (20) feet from the intersection, for all zoning districts.

The area bound by the above defined triangle must be free from any visual obstruction between two and one half feet and eight feet in height measured from the top of the adjacent street curb (if there is no adjacent street curb, the measurement is taken from the grade of the portion of the street adjacent to the visibility triangle); this includes parked vehicles, signs, fences, landscaping, berm, or any structure.

b. **Stopping and Intersection Sight Distances at a Drive Approach**

However, variations in the vertical and horizontal alignment of the intersecting street may create situations where the driver is not given adequate sight distances through the use of the above visibility triangle.

Consequently, the City of Dallas requires that clear sight paths be provided such that vehicles traveling on the through-street can perceive, react, and stop for any potential conflict at the driveway’s intersection. This minimum measure is defined as the stopping sight distance.

In addition to stopping sight distance, intersection sight distance should be checked in cases where potential visual obstructions occur in combination with horizontal or vertical curves.

Adequate intersection sight distance means that there should be sufficient sight distance for the driver waiting at the driveway to safely cross the street without requiring the approaching traffic to reduce speed.

Figure 5 shows an example where minimum intersection sight distance is not provided for either direction as a result of poor design and landscaping. It also gives method to check for intersection sight distances.

To prevent hazardous situations such as that shown in Figure 5 from occurring, always check for the provisions of minimum intersection sight distance either by inspecting the location or by examining the site plans.

Table 4 provides standard stopping and intersection sight distances for various speeds. Table 5 is to be used for Sight Distance Adjustment due to grade.
III. DESIGN GUIDELINES FOR DRIVEWAYS
After choosing the appropriate location for the driveway, one should next concentrate on providing the most efficient design possible in accommodating the needs of the property. The guidelines outlined in the subsequent sections are provided to assist users in interpreting current standards and regulations required for efficient driveway design.

A. PLAN GEOMETRICS OF DRIVEWAYS

1. **Number of Driveway Approaches**
The number of approaches or access points to any property should be limited to the minimum necessary for safe operation on the property.

For most non-service facilities, one driveway usually is sufficient to meet the demands of the property.

However, additional access points may be considered if adequate driveway spacing can be maintained and the following conditions apply:
- The average driveway volume is expected to exceed 5,000 vehicles per day, or
- The expected peak hour volume would exceed the capacity of a stop sign controlled intersection, or
- A competent traffic analysis shows that more than one access point is needed to properly and safely serve the property.

Refer to this handbook Part II.A.3 and Dallas City Code, Section 43-84.

2. **One-way Driveways**
In some cases, it may be desirable to plan the access point as a pair of one-way driveways. Such arrangement can be used to separate potentially conflicting maneuvers, and the approaches can be angled so that vehicles can enter or exit at higher speeds.

Provided that there is sufficient frontage to accommodate such design, a pair of one-way driveways should be considered when the average daily traffic exceeds 10,000 vehicles per day on the through street, or if the left-turn volume into the driveway is expected to exceed 40 vehicles per hour.

The principal disadvantage to the use of one-way driveways is the problem in enforcing their directional operation. The one-way driveway should be signed and designed so as not to create potential confusion or situations where drivers may attempt to circumvent the intended operation of the driveway.

3. **Driveway Angle of Approach**
The minimum allowable angle of approach for a one-way driveway is 45 degrees. Two-way driveways should be designed to intersect the roadway at 90 degrees.
4. Driveway Entry Width and Curb Return Radii
   The operational efficiency of a driveway can be greatly enhanced by coordinating a driveway’s geometric layout with the turning limitations of a critical design vehicle. Ideally, a vehicle should be able to turn into or out of a driveway at a reasonable speed without encroaching upon adjacent lanes.

   a. The Design Vehicle
   As a first step in planning the layout of the driveway, one should identify the critical “design vehicle” to be accommodated by the facility. For example, most residential and small commercial driveways need only to accommodate passenger cars; whereas other commercial or industrial developments will require one driveway that can accommodate the efficient entry of larger vehicles such as single-unit trucks, buses, or full-trailer rigs (WB-50).

   The American Association of State Highway and Transportation Officials (AASHTO) have compiled critical dimensions for such design vehicles. In addition, AASHTO publishes several templates, which delineate the minimum turning radii, and swept paths for each of the design vehicles. See Figures 21 thru 25.

   b. Curb Return Radius
   After a design vehicle has been identified, a compatible driveway can be designed by selecting a suitable curb return radius and a corresponding driveway entry width.

   The driveway entry width dimension is dependent on the adequacy of the curb return radius in transitioning the design vehicle through the turn necessary to exit or enter the driveway. A longer curb return radius provides a better turning transition and will require less entry width than a small radius will.

   Table 6 outlines suggested minimum combinations of driveway entry width and curb return radii for three (3) design vehicles.

   c. Entry Width vs. Overall Width
   The entry width is the approximate width needed at the driveway throat to accommodate the swept path of the turning design vehicle. The entry widths given in Table 6 are minimums developed from design vehicles turning into a driveway from the rightmost lane of an arterial or collector street. The entry width will differ from the designed driveway’s overall width depending on how the driveway will be operated.

   Residential driveway approaches have a maximum of 30’ in width at the property line. For all uses other than residential, the driveway width has a minimum of 12’ and maximum of 40’ except for motor
vehicle docks where the maximum is 60’ for driveway width. Refer to Dallas City Code, Sec. 43-94 and 43-95, and Figure 1 in this handbook.

d. **Practical Design**
For practical design, one should provide longer curb return radii in situations where vehicles enter or exit at higher speed or when a high volume of driveway traffic is expected. This is often accomplished when designing for the critical vehicle.

For example, the majority of traffic entering a retail facility is often passenger-type vehicles. However, by designing the driveway for the occasional delivery truck, one has accommodated the entry of delivery trucks and allowed for the higher entry speed of passenger vehicles.

To provide for such practical operation, a pair of one-way driveways separated by a median should provide at least the minimum entry width at the throat of each approach. Likewise, overall width for two-way driveways should ideally be twice the specified entry width.

The overall width may be reduced to as low as the minimum entry width if the environment will permit a turning vehicle’s occasional encroachment into adjacent driveway lanes. Justification for such a width reduction is sometimes also warranted for driveways abutted local streets or very low volume collector streets, where vehicles can unobstructively encroach into adjacent street lanes to enter or exit a property.

However, when driveways are located on arterial or high volume collector streets, it is not practical to expect large vehicles to encroach upon adjacent lanes to enter a property. Therefore, driveways on such streets should be designed to ideal standards to allow a design vehicle to turn into the property from the right-most lane.

e. **Accommodating Large Trucks**
For properties expecting moderate volumes of large truck traffic, it is desirable to provide one well-designed “industrial” driveway to accommodate such vehicles, allowing passenger-type vehicles to use other appropriately designed driveways within the development.

At an industrial driveway, the most efficient design for a large vehicle’s turning transition can be made by constructing a curb return with a series of compound curves or by using a simple curb radius with transitioning tapers. The AASHTO’s “A Policy on Geometric Design of Streets and Highways, 1994” outlines the procedures for such designs.
5. **Deceleration Lanes for Driveways**
Deceleration lanes for right turns may greatly ease the negative impact a driveway will have on the flow of traffic on a through street. Such a provision will enable right-turning vehicles to decelerate away from the through lanes, therefore lessening the risk of rear-end accidents and reducing impedance to the through-traffic movements.

A deceleration lane should be considered on arterials operating at speeds greater than 35 miles per hour or the average inbound right-turn volume into the driveway is expected to exceed 120 vehicles in the peak hour. Table 7 gives practical deceleration lane lengths including taper.

In cases where several successive driveways warrant the use of deceleration lanes and the spacing is not adequate to avoid encroachment of the deceleration lane into another driveway, a continuous right-turn lane should be used. Also, a continuous right-turn lane should be considered in sections of arterials where 20 percent or more of the directional volume on the arterial makes right turns.

6. **Channelization of Driveways**
Channelization of driveways is the separation of conflicting traffic movements by the use of pavement markings or traffic islands.

The safe, efficient operation of a driveway can be significantly enhanced through the appropriate use of an island separating right-turn egress and left-turn ingress movements (sometimes designed in coordination with a deceleration lane).

Such an island adds efficiency by allowing for simultaneous turning movements, and increases safety by separating potentially conflicting movements and providing a refuge for crossing pedestrians.

a. **Island Size**
Raised islands should be constructed so as to be readily visible and to make obvious the directed course of travel. For this reason islands are required to be at least 75 square feet in area, with 100 square feet of area preferred for most designs.

See Figure 1 for minimum and desirable dimensions.

b. **Turning Roadway Width and Radii**
To facilitate the wide swept paths of turning vehicles and to accommodate higher entry speeds, a minimum width of the turning roadway should be provided to permit the outer and inner wheel tracks of a turning design vehicle to clear the pavement gores by about 2 feet on each side.
Table 8 shows recommended pavement widths and inner radii for accommodating design vehicles on such channelized intersections.

7. **Storage Considerations for Driveways**  
Proper storage location and length are crucial to the efficient operation of a driveway. The facility should be designed to maximize the on-site storage of vehicles by providing sufficient driveway throat length and by prudently designing any drive-through facilities.

a. **Storage Length**  
The length of storage provided by the throat of the driveway should be sufficient so that divergent or conflicting maneuvers may take place at a distance far away from the driveway’s intersection with the street so as to not interfere with or block ingress/egress movements.

Table 9 shows required storage lengths for different land uses.

If a driveway meets the requirements for a Traffic Signal, the minimum storage length and geometry will be determined by the Public Works and Transportation Department.

The combination of sub-standard storage length and insufficient outflow metering can result in situations where police control or unwarranted signalization is requested to alleviate congestion from a property; such means of control are considered undesirable and costly.

b. **Drive-through Design**  
On-site storage can also be optimized by the resourceful design of drive-through facilities. Storage of vehicle queuing into a drive-through or other services should be placed so that vehicles do not backup onto the street.

A practical design is one that would orient any drive-through queues around the rear of the lot, thereby maximizing on-site storage.

8. **Control Gate Setback for Private Streets/ Driveways**  
If a control gate is used within a private street or driveway to restrict the entry of vehicles, a distance of 40 feet of throat length should be provided to accommodate the queuing of vehicles, and an opening provided for the turn-around maneuver of vehicles (see Figure 6). In addition, for locations with high-speed or high-volume of traffic, throat length of more than 40 feet may be required.

For a private drive such as multi-family districts, the gate must be set back a minimum distance of 20 feet from the back of street curb per Dallas City Code, Sec. 51A-4.602 (a) (2) (B).
B. DRIVEWAY GRADES AND DRAINAGE CONTROL
The profile, or grade, of a driveway should be carefully designed to accommodate the storm water drainage system of the roadway, and to provide a comfortable and safe transition for drivers.

1. Driveway Grades
Driveway grades have standards to ensure adequate drainage of the roadway, and to accommodate mobility of pedestrians and vehicles using the driveway. Figure 7 shows a typical driveway profile. Refer to City of Dallas, Standard Construction Details, File 251D-1 for more information.

a. Minimum and Maximum Grades, G1
The minimum grade for this section between the gutter line and the property line (G1) is 2%, it must be sufficient to bring the finished grade elevation of the driveway at the property line to two inches above the elevation of the top of curb. This is to ensure that the roadway will drain properly and the stormwater drainage runoff does not enter the private property.

The maximum grade for G1 is 8% from the gutter to the proposed outside edge of sidewalk. Crossfall across sidewalk should not exceed 2%, and longitudinal grades for sidewalk should not exceed 8%.
A further limitation on this grade specifies that the maximum change in grade without using a vertical curve in any ten (10) feet of distance is 12% in order to avoid car bumper drag.

b. Grade Beyond the Property Line, G2
City of Dallas policy requires that, where applicable, at least 25 feet of consistent grade be profiled beyond the right-of-way line to ensure adequate replacement design. Such a grade is governed by the limitations listed in Table 10.

The maximum allowable grade beyond the property line (G2) is 14%.

2. Accommodating Drainage Facilities
Drainage in roadside ditches shall not be impeded by any driveway or structure. If an open drainage facility exists, it will be necessary to accommodate the existing system with the utilization of a pipe, culvert, or other drainage device.

Such structures must be of a design approved by the Public Works & Transportation Department. If pipes are used for driveway culverts, the minimum required diameter is 15 inches for residential uses and 18 inches for other uses.
In addition, a driveway must be designed such that drainage water is not diverted from the roadway onto the property.

IV. MEDIAN OPENINGS

A. GENERAL
A median opening is defined as any opening in a center divider on a dedicated public street or a private road to allow for left- or U-turns.

The minimum median opening width is 60 feet. For spacing of median openings, refer to Dallas City Code, Section 51A-8.607; and City of Dallas Standard Construction Details, File 251D-1, page 1001; and City of Dallas, Public Works and Transportation, Paving Design Manual, June 1998, Section 3.02.03 and Section 4.03.11 for further details.

Any owner, developer, or authorized agent who desires to construct, alter or close a median opening within the City of Dallas must submit engineering plans to the Department of Development Services for review and approval.

A private development contract must be executed for any work within public right-of-way and/or easement.

B. DESIGN CRITERIA
Wherever possible, median openings should serve both sides of a street. The following standards for median openings are established to facilitate traffic movement and promote traffic safety.

Median openings will normally be permitted at all intersections with public or private streets. Exceptions would be at certain local streets and driveway approaches where, due to unusual conditions, a hazardous situation would result.

1. Arterials and Collector Thoroughfares
Mid-block median openings or other openings with turns permitted into adjacent property shall meet the following criteria:

a. The property to be served is a significant traffic generator with demonstrated or projected trip generation of not less than two hundred fifty (250) vehicles in a twelve-hour period.

b. The following spacing requirements are measured from the noses of the medians:
   • no closer than 350 feet from minor arterial intersections.
   • no closer than 425 feet from principal arterial intersections.
   • no closer than 300 feet from any other median opening.

c. The median width is sufficient to permit the construction of a left turn lane.
2. **Freeways and Expressways**
   There shall be no median opening on freeways and expressways unless it is
designed by the responsible government agency.

V. **PERMITS FOR AND CONSTRUCTION OF DRIVEWAYS**

A. **APPLYING FOR PERMITS**
   Permits must be obtained prior to starting actual construction of driveway approach.

   To obtain the permits, first the “Building Inspection Application” (see Form #1) and
the “City of Dallas Paving Bond Form” (see Form #2) should be submitted to the
Department of Development Services, Building Inspection Division. If the driveway
approach is on an Arterial Thoroughfare, the “Barricade” on Form #1 should be
marked so that an appropriate “Barricade Permit” can also be issued.

   Then the “Permit Application” (see Form #3) or “Permit Application/ Short Form”
(see Form #4) and “Street Excavation Data Form” (see Form #5) should be submitted
to the Department of Public Works and Transportation, Inspection Services so that a
“Street Excavation Permit” (see Form #6) can be issued. These forms are required
for any construction activity within the right-of-way.

B. **REQUIREMENTS FOR PERMIT APPLICATION**
   A bonded contractor who is registered with the City of Dallas must be shown on the
“Building Inspection Application” (see Form #1) and the “City of Dallas Paving
Bond Form” (see Form #2).

   The completed Building Inspection Application, Form and plans are submitted to:
   Building Inspection Division
   Department of Development Services
   City of Dallas
   320 E. Jefferson Blvd, Room 118
   Dallas, Texas 75203.

   The “Permit Application” (see Form #3) requires three (3) sets of plan drawn to scale,
clearly delineating the property boundaries, roadway pavement, existing and
proposed driveway approaches, any natural or artificial features which might affect
the drive approaches. Measured dimensions should be shown wherever relevant.

   The completed Permit Application, Form and plans are submitted to:
   Inspection Services, Cut Control Section
   Department of Public Works and Transportation
   City of Dallas
   320 E. Jefferson Blvd, Room 312
   Dallas, Texas 75203.
C. CONSTRUCTION OF DRIVEWAYS

1. **Removal of Curb and Gutter where Required**
   Where a driveway approach is to be constructed at a location where there exists a curb and gutter, such curb and gutter should be removed to the nearest construction joint.

   The driveway approach should extend to the property line. On concrete pavement with monolithic curb, the breakout line needs to be eighteen inches from the back of curb line and should be parallel to and form a right angle with the concrete surface.

   Pages 1004, 1004A and 1005 of the City of Dallas, Department of Public Works & Transportation, Standard Construction Details, File 251D-1, show the construction details of driveway approaches.

   If there is no curb and gutter along the street:
   - Figure 8 shows the construction details of the driveway approaches without culverts.
   - Figure 9 shows the construction details of driveway approaches with culverts.

2. **Concrete**
   Driveway approaches should be constructed of one-course concrete, reinforced, six inches minimum thickness. The portion of the driveway between the back of the curb and the breakout line needs to be:
   - 6 inches minimum thickness for local residential streets.
   - 8 inches minimum thickness for any other street, or to match existing pavement thickness.

   The concrete should have a minimum compressive strength of 4000 pounds per square inches at 28 days.

   The quantity of mixing water should not exceed seven gallons per sack (94 pounds) or Portland cement. The slump of the concrete should not exceed four (4) inches.

3. **Reinforcing Steel**
   Reinforcement steel should consist of No. 3 (three eights of an inch in diameter) round bars placed not more than 24 inches on centers, both directions. Where steel is lapped, the overlap should not be less than 12 inches or 30 times the bar diameter, whichever is greater.

4. **Placement and Compaction of Concrete**
   Concrete should be compacted with an open face taper and struck off with a straight edge. Concrete should be free from honeycombing, rock pockets and segregation of ingredients.
5. **Finishing**
The surface may have a monolithic finish by floating with a wooden float until a slight excess of sand appears on the surface or may be brushed after troweling in lieu of floating. The surface should not be left slick or with a gloss finish.

Exposed edges of driveway should be rounded with an edger to a radius of one-half inch.

6. **Protection from Vehicular Traffic**
Driveway approaches should be protected from vehicular traffic for a minimum of seven days.

On the seventh day, one set of concrete cylinders should be tested for compressive strength. If the result of this test exceeds 67 percent of design strength, the driveway may be open to traffic.

If this test fails, the other set of concrete cylinders should be tested for compressive strength on the 28th day while the driveway is kept closed to traffic. If the result of this test meets with the design strength, the driveway may be open to traffic. If this test also fails, the standard specification for Public Works Construction, North Central Texas Council of Governments will apply.

D. **FINAL ACCEPTANCE OF DRIVEWAYS**
Upon completion of the field work, the applicant should call for inspection. The assigned inspector will make the necessary field inspection and will review the results of the tests. The inspector will process all the necessary paperwork for final acceptance if the work performed meets the minimum standards set by the City of Dallas.

E. **ABANDONMENT OF DRIVEWAY APPROACHES**
Whenever a driveway approach is abandoned and no longer used for vehicular access to the abutting property, it is the responsibility of the abutting property owner to restore the curb and gutter section.

The construction plans must be submitted to and approved by the building official and a "Drive Approach Permit" must be obtained prior to any work to be done.

* * *

*
PART TWO
OFF-STREET PARKING

I. INTRODUCTION
Any owner, authorized agent, lessee, or contractor who intends to construct, enlarge or alter any parking facility within the City of Dallas must first apply to the Building Official to obtain a permit.

The purpose of this document is to guide interested parties for the design and layout of open off-street parking facilities as established by City of Dallas ordinances and policies. Refer to Dallas City Code, Divisions 51A-4.300, 51A-4.310 and 51A-4.320 for more information.

For an enclosed parking space such as garage, the parking space must be at least 20 feet from the property line adjacent to the street or alley if the space faces upon or can be entered directly from the street or alley per Dallas Development Code, Sections 51A-4.301 (a) (9).

II. OFF-STREET PARKING SPACES

A. COMPUTING NUMBER OF REQUIRED PARKING SPACES
The number of required spaces for off-street parking facilities is based upon the type and nature of the land use and the existing and/or proposed development. For example, if an office building is proposed, one (1) parking space is required for every 333 square foot of floor area.

The Dallas Development Code, Sections 51A-4.201 through 51A-4.217 specifies the number of parking spaces required for various developments and uses.

When a lot is used for a combination of uses, the off-street parking requirements are the sum of the requirements for each use, and no off-street parking space for one use is included in the calculation of off-street requirements for any other use, except as otherwise provided in Section 51A-4.301 or Division 51A-4.320 of Dallas Development Code.

1. Special Parking Regulations
There are basically three special parking options available which would allow the reduction of the required number of parking spaces. These options are: shared parking, remote parking and packed parking.
These options are fully described in the Dallas Development Code, Division 51A-4.320.

a. Shared Parking
Shared parking is the use of the same off-street parking stall(s) to satisfy the off-street parking requirements for two or more uses. The uses sharing the parking must have either mutually exclusive or compatibly overlapping normal hours of operation.
Shared parking allows an exception to the requirement that no off-street parking space for one use be included in the calculation of the parking space required for any other use.

b. **Remote Parking**
Remote parking is off-street parking provided on a lot not occupied by the main facility. It must be located within a walking distance of 300 feet. Remote Parking allows an exception to the requirement that all off-street parking be provided on the lot occupied by the main use facility.

c. **Packed Parking**
Packed Parking is off-street parking that allows maximal parking on a lot when an attendant is provided to park vehicles. A special parking license and proper signage are also required.

2. **Procedures for Special Parking Approval**
All Special Parking must be approved by the Building Official. The applicant seeking approval of Special Parking must submit an application to the Building Official for approval. The Dallas City Code, Sections 51A-4.323 through 51A-4.331 describe the details of the approval process.

B. **HANDICAPPED PARKING SPACES**

1. **General**
The design of handicapped parking spaces must be in accordance with the “Texas Accessibility Standards (TAS)”. It is the policy of the City of Dallas and the State of Texas to encourage and promote the rehabilitation of handicapped or disabled citizens and to eliminate unnecessary barriers encountered by aged, handicapped, or disabled persons, whose ability to engage in gainful occupation or to achieve maximum personal independence is needlessly restricted when such persons cannot readily use buildings otherwise accessible to the general public.
The Dallas City Code, Section 51A-4.305 provides regulations on handicapped parking. These regulations are based on TAS requirement. In case of any discrepancy, the TAS requirements are applicable.

2. **Number of Required Handicapped Parking Spaces**
The appropriate number of handicapped parking spaces should be based on the location and function of the building or facilities the parking is to serve but not less than the number specified in the following table in accordance with TAS:

<table>
<thead>
<tr>
<th>Total Parking in Lot</th>
<th>Req'd. Min. No. of Accessible Spaces</th>
<th>Total Parking in Lot</th>
<th>Req'd. Min. No. of Accessible Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 25</td>
<td>1</td>
<td>201 to 300</td>
<td>7</td>
</tr>
<tr>
<td>26 to 50</td>
<td>2</td>
<td>301 to 400</td>
<td>8</td>
</tr>
<tr>
<td>51 to 75</td>
<td>3</td>
<td>401 to 500</td>
<td>9</td>
</tr>
<tr>
<td>76 to 100</td>
<td>4</td>
<td>501 to 1000</td>
<td>2 percent of total</td>
</tr>
<tr>
<td>101 to 150</td>
<td>5</td>
<td>1001 and over</td>
<td>20 plus 1 for each 100 over 1000</td>
</tr>
<tr>
<td>151 to 200</td>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

22
3. **Location of Handicapped Parking Space**
Accessible parking spaces and accessible passenger loading zones that serve a particular building should be located on an accessible circulation route and as near as reasonably possible to the accessible primary entries of the building or facility to serve the handicapped.

In multi-level parking garages, remote lots, overhead walkways, handicapped parking spaces shall be located on the shortest possible circulation route.

4. **Specifications of Handicapped Parking Space**
   - Head-in or diagonal handicapped parking spaces shall be at least 96 inches wide with an adjacent aisle or clear space of 60 inches wide. In order to accommodate handicapped persons using vans with side lifts, an aisle of 96 inches is preferred (see Figure 11).
   - Texas Accessibility Standards (TAS) requires a minimum of 1 designated “van accessible” space for every 8 accessible spaces. Minimum of one “van accessible” space is required.
   - An accessible parking space is one that is open on at least one side and allows room for individuals in wheelchairs, crutches, or braces to safely get in and out of a vehicle onto a level surface suitable for wheeling and walking, but not behind and obstructed by parked vehicles.
   - Parallel parking is discouraged except when it can be situated in such a manner that handicapped persons entering and exiting vehicles will be out of the flow of traffic (see Figure 10).
   - Parking surfaces and accessible aisles shall not have a slope in any direction in excess of 1:50 (2.0%).

   - Accessible parking spaces shall be identified and reserved for the handicapped by a sign incorporating the symbol of accessibility and placed so that parked vehicles will not obscure it.

5. **Parking Structures and Remote Lots for the Handicapped**
In instances where parking garages, underground lots, or remote lots are used to serve a particular building or facility, required handicapped parking spaces and conditions shall conform to the following criteria in addition to other specifications contained in the Dallas City Code, Section 51A-4.305:
   - There shall be an accessible route from the handicapped parking spaces to the nearest accessible primary entrance to the use.

   - Elevators or overhead walkways, if required, shall comply with applicable standards and specifications.

6. **Passenger Loading Zone for the Handicapped**
If passenger loading zone is provided, it should be 13 feet wide and 24 feet long. Barrier-free ramp may also be required for access (see Figure 10).
Handicapped persons entering and exiting vehicles should be kept out of the traffic flow.

C. SMALL OR COMPACT CAR ALLOWANCE
The Dallas Development Code allows that up to 35% of required parking spaces may be allocated to small or compact cars. Refer to Dallas City Code, Section 51A-4.301 (d)(1)(C)(ii).

See Figure 12 for small or compact-car dimensions, and Figure 28 for its striping layout detail requirements.

III. TYPES OF PARKING LAYOUTS
Various forms of parking stall layouts are available for use in a parking lot. Selection of the best parking angle depends primarily on the size and shape of the parking lot.

All parking requires that the stalls closest to the driveway must be placed outside the 20 feet driveway visibility obstruction triangle.

A one-way access lane must be at least 10 feet wide, and a two-way access lane must be at least 20 feet wide.

When an aisle is designated as a fire lane, it must conform to the Dallas Fire Code for minimum aisle size and turning radius.

Table 11 contains the City of Dallas Parking Stall Dimensions as they are listed in the Dallas Development Code, Section 51A-4.301(d)(1)(B). The 7.5-foot wide parking stall is intended for design of compact car spaces only.

A. RIGHT ANGLE PARKING (90°)
In larger lots, placing the stalls at right angles to the aisle provides the most number of parking spaces. The aisle can be used in either direction, and travel distances are reduced.

An example layout for a right angle parking lot is shown in Figure 13.

B. OTHER ANGLES PARKING (30° TO 80°)
Angle parking allows fewer stalls for a given length or aisle than right-angle parking, but is more accessible by self parkers. Another advantage of angle parking is that it permits the use of narrow lot because the stall lengths are variable.

Angle parking requires that the first stall must be placed a minimum of 10 feet from the property line. This is a safety measure to protect occupants of the sidewalk from vehicles backing out of the stall.

Examples of parking lot layouts for various angle parking stalls are shown in Figures 14 through 19.
C. **PARALLEL PARKING SPACES**
The Dallas City Code 51A-4.301 (d) (1) (A) states that a parking space parallel with the access lane must be 22 feet long and 8 feet wide. At both ends of each row of the parallel parking spaces, 20 feet may be provided for maneuvering.

IV. **PROVIDING ADEQUATE CIRCULATION FOR PARKING SPACES**
Ease of entry/exit the parking lot and circulation are important to the design success. Circulation and the parking angle should be matched. One-way aisles may restrict circulation and should be used in pairs. Driver misuse of one-way aisles may be a problem in some situations.

In the design of parking spaces for parking garages, the location of columns is a major factor. Columns should not be closer than 1 foot from the circulation aisle and should not interfere with the door clearance area for the Standard Car as shown in Figure 20.

In providing adequate circulation, the design of parking lots should be coordinated with locations of driveways, any drive-through facilities, and the layout of the parking lot. An appropriate width of aisle should be utilized for Right Angle and/or Angled Parking lots.

Refer to Table 11 for details.

V. **DESIGN CONSIDERATIONS FOR PARKING SPACES**

A. **GEOMETRICS: TURNING RADIUS OF DESIGN VEHICLES**
The geometric design of driveways and the layout of parking lots must be based on certain vehicles operating characteristics and vehicle dimensions. The American Association of State Highway and Transportation Officials, 1984, has developed turning templates for ten design vehicles. Four of the design vehicles (passenger car, SU truck, bus and WB-50) are applicable in the design of parking lots and are included in Figures 21 through 24.

The turning templates are used to verify that the geometric layouts for parking lots designed for any of the four vehicles will function well. The passenger car template should be used as a minimum and only for lots where no large vehicles are likely.

The design should also consider the turning characteristics of dumpster/trash trucks and fire trucks. The turning template for the City of Dallas fire truck is show on Figure 25.

B. **VISIBILITY TRIANGLES AT DRIVEWAYS, ALLEYS, AND STREET INTERSECTIONS**
The visibility triangle affects the layout of parking at the intersection of driveways with alleys and streets; and at the street intersections for corner lots.

According to the Dallas Development Code, Section 51A-4.602(d), a person shall not erect, place, or maintain a structure, berm, plant life, or any other item on a lot if the item is in the “visibility triangle” and is between two and one-half feet and eight feet
in height measured from the top of the adjacent street curb. If there is no adjacent street curb, the measurement is taken from the grade of the portion of the street adjacent to the visibility triangle.

"Visibility triangle" is defined as:

- Portion of a lot within a triangular area formed by connecting together the point of intersection of the edge of a driveway or alley and an adjacent street curb line (or, if there is no street curb, what would be the normal street curb line) and points on the driveway or alley edge and the street curb line 20 feet from the intersection, for all zoning districts.

- Portion of a corner lot within a triangular area formed by connecting together the point of intersection of adjacent street curb lines (or, if there are no street curbs, what would be the normal street curb lines) and points on each of the street curb lines:

  (a) 45 feet from the intersection in all zoning districts except central area districts, the Deep Ellum/Near Eastside District (Planned Development District No. 269), and the State-Thomas Special Purpose District (Planned Development District No. 225); or

  (b) 30 feet from the intersection in central area districts, the Deep Ellum/Near Eastside District (Planned Development District No. 269), and the State-Thomas Special Purpose District (Planned Development District No. 225).

Figure 4 shows the dimensions of the visibility triangles for various situations.

C. MATERIALS FOR PARKING SPACES
Refer to Dallas Development Code, Section 51A-4.301(d).

1. Pavement Standards
The surface of the parking lot must be constructed on a compacted subgrade and consist of:

- Concrete paving, or
- Hot mix asphalt paving consisting of a binder and surface course, or
- A material which has equivalent characteristics and approved by the Director of Public Works and Transportation.

2. Wheel Guards
Off-street parking spaces for non-residential uses and parking spaces along the perimeter of a commercial parking lot or garage must have wheel guards not less than 6 inches in height.

The wheel guard or barrier must be at least three feet from the screening or the property line so that no part of a vehicle shall extend onto public sidewalks, or adjoining property. Their placement depends upon the angle for which the parking is planned and the design vehicles used.
Figure 26 illustrates suitable wheel guard and the amount of overhang for both design vehicles at various angles.

3. **Pavement Markings**
   Recommended pavement markings are illustrated in Figure 27. Typically, white markings provide the greatest contrast on asphalt lots. On concrete lots, yellow may be preferred.

   Figure 28 is a typical striping layout detail for a compact-car parking stall.

D. **DRAINAGE FOR PARKING SPACES**
   The parking area should be adequately sloped to minimize the possibility of low or flat spots. The ponding of water in a parking lot is undesirable for both vehicle and pedestrian movement.

   If the 100-year peak runoff is less than five (5) cubic feet per second (cfs), with no underground drainage facility and the abutting street has adequate excess drainage capacity, the parking lot should be sloped toward the driveway approach allowing the runoff to be discharged onto the street.

   If the 100-year peak runoff exceeds five (5) cfs and/or the abutting street does not have any excess drainage capacity, an underground drainage system with an adequate outfall should be designed to convey the 100-year frequency rainfall runoff.

   The drainage plans should be submitted to the Department of Development Services for review and approval.

   Since the stormwater runoff ultimately drains onto drainage ditches or creeks, it is important to keep the storm drainage runoff as clean as possible. Therefore, it is highly recommended to use combination curb-grate inlets to intercept the trash as part of any proposed underground storm drainage system. This is especially true in the development of shopping centers and fast-food restaurants.

E. **LIGHTING AND SCREENING FOR OFF-STREET PARKING**

1. **Lighting Provisions for Off-Street Parking**
   The lighting of off-street parking lots must meet the minimum requirements described in Section 51A-4.301(e) of the Dallas Development Code.

   a. **Lighting Provisions for Commercial Parking Lots**
   A commercial parking lot which offers service and collects revenue for use after dark (including attended, self-park, coin-actuated gated lots, and rentals on any basis) must be lighted beginning one-half hour after sunset and continuing throughout the hours of use or until midnight, whichever is earlier.
If only a portion of the parking lot is offered for use after dark, only that part must be lighted. However, the portion offered for use must be clearly designated.

b. **Lighting Provisions for Other Off-Street Parking**

Off-street parking for a use other than single family, duplex, or the commercial parking lot use that offers service after dark must be lighted beginning one-half hour after sunset and continuing throughout the hours of use or until 10 o’clock p.m., whichever is earlier.

If only a portion of a parking area is offered for use after dark, only that part must be lighted. However, the portion offered for use must be clearly designated.

2. **Screening Provisions for Off-Street Parking**

The owner of off-street parking must maintain the screening in compliance with standards set forth in Section 51A-4.301(f) of Dallas Development Code.

Screening for off-street parking must be a brick, stone, concrete masonry, stucco, concrete, or wooden wall or fence that is not less than six feet in height. The wall or fence may not have more than ten square inches of open area for each square foot of surface area, and may not contain any openings or gates for vehicular access.

VI. **CONSTRUCTION AND MAINTENANCE OF PARKING SPACES**

Refer to Dallas Development Code, Section 51A-4.301(d).

A. **CONSTRUCTION OF PARKING SPACES**

1. **Single Family or Duplex Use**

For a single family or duplex use, the surface of a parking space, maneuvering area for parking, or driveway must consist of an all-weather and drainable material which is approved by the building official, or a material specified in the following Subsection 2 “Other Uses”.

2. **Other Uses**

For a use other than a single family or duplex use, the surface of an enclosed or unenclosed parking space, maneuvering area for parking, or a driveway which connects to a street or alley must be constructed on a compacted subgrade, and must consist of:

- Concrete paving; or
- Hot mix asphalt paving which consists of a binder and a surface course; or
- Material which has equivalent characteristics and has the approval of the Building Official.
B. **MAINTENANCE OF PARKING SPACES**

The owner of off-street parking for a use other than single family or duplex use must:

- Keep the parking surface free of potholes; and
- Maintain wheel guards and barriers; and
- Maintain non-permanent parking space markings such as paint, so that clear identification of each parking space is apparent; and
- Keep the parking lot clean.

* * *

*
### TABLE 1 – SPACING BETWEEN DRIVEWAYS, MIN. PROPERTY CLEARANCE

<table>
<thead>
<tr>
<th>Functional Classification</th>
<th>DESIRABLE Spacing between Driveways</th>
<th>MINIMUM Spacing between Driveways</th>
<th>Minimum Property Clearance Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTERIAL (Principal)</td>
<td>200’</td>
<td>20’ normally See Fig. 1</td>
<td>10’</td>
</tr>
<tr>
<td>ARTERIAL (Minor)</td>
<td>20’</td>
<td>20’ normally See Fig. 1</td>
<td>10’</td>
</tr>
<tr>
<td>COLLECTOR (Community)</td>
<td>150’</td>
<td>14’ normally See Fig. 1</td>
<td>7’</td>
</tr>
<tr>
<td>COLLECTOR (Residential)</td>
<td>20’</td>
<td>14’ normally See Fig. 1</td>
<td>7’ **</td>
</tr>
<tr>
<td>LOCAL (Residential)</td>
<td>20’</td>
<td>14’ normally See Fig. 1</td>
<td>5’ **</td>
</tr>
</tbody>
</table>

**NOTES:**
* 7' for driveway with dustpan turnout, 5’ min. for driveway width of 15’ or greater (The distance is measured from the edges of driveway throat).
** 5’ for driveway with radius turnout.

### TABLE 2 - CLEARANCE DISTANCE TO INTERSECTION FOR DRIVEWAYS

<table>
<thead>
<tr>
<th>Street abutted by Driveway</th>
<th>Intersecting with</th>
<th>MINIMUM Clearance Distance</th>
<th>DESIRABLE Clearance Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arterial</td>
<td>Arterial</td>
<td>See Fig. 2</td>
<td>250’</td>
</tr>
<tr>
<td>Arterial</td>
<td>Collector</td>
<td>See Fig. 2</td>
<td>125’</td>
</tr>
<tr>
<td>Arterial</td>
<td>Local</td>
<td>See Fig. 2</td>
<td>50’</td>
</tr>
<tr>
<td>Collector</td>
<td>Any</td>
<td>See Fig. 2</td>
<td>50’</td>
</tr>
<tr>
<td>Local</td>
<td>Any</td>
<td>See Fig. 2</td>
<td>50’</td>
</tr>
</tbody>
</table>

### TABLE 3 - D-VALUE FOR USE WITH FIGURE 2

#### CLEARANCE DISTANCE TO INTERSECTION FOR DRIVEWAYS

<table>
<thead>
<tr>
<th>ARTERIAL DESIGN SPEED (MPH)</th>
<th>D-VALUE (feet)</th>
<th>CLEARANCE DISTANCE TO INTERSECTION FOR DRIVEWAYS</th>
<th>Percent of Right Turns</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>&lt;10%</td>
</tr>
<tr>
<td>35</td>
<td>30’</td>
<td>40’</td>
<td>50’</td>
</tr>
<tr>
<td>40</td>
<td>35’</td>
<td>50’</td>
<td>60’</td>
</tr>
<tr>
<td>45</td>
<td>40’</td>
<td>55’</td>
<td>65’</td>
</tr>
<tr>
<td>50</td>
<td>45’</td>
<td>60’</td>
<td>70’</td>
</tr>
<tr>
<td>55</td>
<td>75’</td>
<td>80’</td>
<td>85’</td>
</tr>
</tbody>
</table>
# TABLE 4 - STOPPING AND INTERSECTION SIGHT DISTANCES

<table>
<thead>
<tr>
<th>Design Speed MPH</th>
<th>Street Section Type ***</th>
<th>Stopping Sight Distance (Feet)</th>
<th>Intersection Sight Distance (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Min.</td>
<td>Desirable</td>
</tr>
<tr>
<td>25</td>
<td>L-2-U(B)</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>25</td>
<td>L-2-U(A)</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>30</td>
<td>M-2-U</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>30</td>
<td>S-2-U</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>35</td>
<td>M-2-U</td>
<td>225</td>
<td>250</td>
</tr>
<tr>
<td>35</td>
<td>S-2-U</td>
<td>225</td>
<td>250</td>
</tr>
<tr>
<td>35</td>
<td>M-4-U*</td>
<td>225</td>
<td>250</td>
</tr>
<tr>
<td>40</td>
<td>M-2-U</td>
<td>275</td>
<td>315</td>
</tr>
<tr>
<td>40</td>
<td>S-2-U</td>
<td>275</td>
<td>315</td>
</tr>
<tr>
<td>40</td>
<td>M-4-U*</td>
<td>275</td>
<td>315</td>
</tr>
<tr>
<td>40</td>
<td>M-4-D(B)</td>
<td>275</td>
<td>315</td>
</tr>
<tr>
<td>45</td>
<td>M-4-U couplet</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>45</td>
<td>S-4-U</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>45</td>
<td>M-4-D(A)</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>45</td>
<td>M-6-D(B)</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>45</td>
<td>M-3-U couplet</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>45</td>
<td>S-4-U couplet</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>45</td>
<td>S-3-U couplet</td>
<td>325</td>
<td>385</td>
</tr>
<tr>
<td>50</td>
<td>S-4-D</td>
<td>400</td>
<td>460</td>
</tr>
<tr>
<td>50</td>
<td>M-6-D(B)</td>
<td>400</td>
<td>460</td>
</tr>
<tr>
<td>50</td>
<td>M-6-D(A)</td>
<td>400</td>
<td>460</td>
</tr>
<tr>
<td>55</td>
<td>M-6-D(B)</td>
<td>450</td>
<td>540</td>
</tr>
<tr>
<td>55</td>
<td>M-6-D(A)</td>
<td>450</td>
<td>540</td>
</tr>
<tr>
<td>55</td>
<td>S-6-D</td>
<td>450</td>
<td>540</td>
</tr>
<tr>
<td>55</td>
<td>S-8-D</td>
<td>450</td>
<td>540</td>
</tr>
</tbody>
</table>

**NOTES:**

* Striped for four lanes
** Applicable for oncoming traffic side on one-way couplet
*** For street section types, see Paving Design Manual, June 1998, Section II, Table II-4, “Street and Thoroughfare Geometric Standards”

For distance adjustment due to grade of street, use Table 5
### TABLE 5 – SIGHT DISTANCE ADJUSTMENTS DUE TO GRADE

<table>
<thead>
<tr>
<th>Design Speed (MPH)</th>
<th>Upgrades (Decrease) in Feet</th>
<th>Downgrades (Increase) in Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3%</td>
<td>6%</td>
</tr>
<tr>
<td>25</td>
<td>4</td>
<td>8</td>
</tr>
<tr>
<td>30</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>35</td>
<td>8</td>
<td>15</td>
</tr>
<tr>
<td>40</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>45</td>
<td>15</td>
<td>25</td>
</tr>
<tr>
<td>50</td>
<td>20</td>
<td>30</td>
</tr>
<tr>
<td>55</td>
<td>25</td>
<td>40</td>
</tr>
</tbody>
</table>

### TABLE 6 – ENTRY WIDTHS OF DRIVEWAYS

<table>
<thead>
<tr>
<th>Curb Return Radius (feet)</th>
<th>ENTRY WIDTHS OF DRIVEWAYS (feet *)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P (Passenger Car)</td>
</tr>
<tr>
<td>5 **</td>
<td>15</td>
</tr>
<tr>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>15</td>
<td>11</td>
</tr>
<tr>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>30</td>
<td>-</td>
</tr>
</tbody>
</table>

**NOTES:**
* for 90-degree entry on ARTERIALS and COLLECTOR THOROUGHFARES.
** for use on LOCAL STREETS only.

### TABLE 7 – DECELERATION LANE LENGTH INCLUDING TAPER

<table>
<thead>
<tr>
<th>STREET FUNCTIONAL CLASSIFICATION</th>
<th>DECELERATION LANE LENGTH (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arterial</td>
<td>350</td>
</tr>
<tr>
<td>Collector</td>
<td>250</td>
</tr>
<tr>
<td>Local</td>
<td>200</td>
</tr>
</tbody>
</table>
TABLE 8 – PAVEMENT WIDTHS FOR TURNING ROADWAYS

<table>
<thead>
<tr>
<th>Radius of Inner Edge of Pavement</th>
<th>Passenger Car</th>
<th>Single Unit Truck</th>
<th>Semi-Trailer Truck</th>
</tr>
</thead>
<tbody>
<tr>
<td>50’</td>
<td>14’</td>
<td>18’</td>
<td>26’</td>
</tr>
<tr>
<td>75’</td>
<td>14’</td>
<td>17’</td>
<td>22’</td>
</tr>
</tbody>
</table>

TABLE 9 – VEHICLE STORAGE LENGTHS FOR DRIVEWAY EGRESS

<table>
<thead>
<tr>
<th>Parking Spaces per Egress Lane</th>
<th>VEHICLE STORAGE LENGTH <em>(feet, measured from property line)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MF Residential</td>
</tr>
<tr>
<td>0 - 200</td>
<td>20</td>
</tr>
<tr>
<td>201 - 400</td>
<td>20</td>
</tr>
<tr>
<td>401 - 600</td>
<td>40</td>
</tr>
<tr>
<td>601 - 700</td>
<td>80</td>
</tr>
<tr>
<td>over 700</td>
<td>160</td>
</tr>
</tbody>
</table>

* At point of major ingress/ egress, the length of the storage is minimum of 60 feet. Rev2 – Jan 2005

TABLE 10 – DRIVEWAY PROFILE, STANDARDS FOR GRADES (see Figure 7)

<table>
<thead>
<tr>
<th>Low Volume Driveway* on Local Street</th>
<th>Minimum G2</th>
<th>Maximum G2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-10%</td>
<td>10%</td>
</tr>
<tr>
<td>Low Volume Driveway* on Collector Thoroughfare</td>
<td>-4%</td>
<td>8%</td>
</tr>
<tr>
<td>Low Volume Driveway* on Arterial</td>
<td>-1%</td>
<td>5%</td>
</tr>
<tr>
<td>High Volume Driveway** on any Street</td>
<td>-1%</td>
<td>5%</td>
</tr>
</tbody>
</table>

NOTES:
* Low Volume Driveway – a driveway with less than 100 vehicles in the peak hour in the peak direction.
** High Volume Driveway – a driveway with more than 100 vehicles in the peak hour in the peak direction.
### TABLE 11 - PARKING BAY WIDTH

<table>
<thead>
<tr>
<th>Parking Angle</th>
<th>7.5’ STALL WIDTH x 16’</th>
<th>8.5’ STALL WIDTH x 18’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AISLE</td>
<td>ONE ROW</td>
</tr>
<tr>
<td></td>
<td>ONE WAY</td>
<td>TWO WAY</td>
</tr>
<tr>
<td>A</td>
<td>D</td>
<td>Y1</td>
</tr>
<tr>
<td>30</td>
<td>12.0’ 18.0’</td>
<td>26.5’ 32.5’</td>
</tr>
<tr>
<td>40</td>
<td>12.0’ 18.0’</td>
<td>28.0’ 34.0’</td>
</tr>
<tr>
<td>50</td>
<td>12.0’ 18.0’</td>
<td>29.1’ 35.1’</td>
</tr>
<tr>
<td>60</td>
<td>14.0’ 18.0’</td>
<td>31.6’ 37.6’</td>
</tr>
<tr>
<td>70</td>
<td>15.0’ 18.0’</td>
<td>32.6’ 38.6’</td>
</tr>
<tr>
<td>80</td>
<td>18.0’ 18.0’</td>
<td>35.1’ 39.1’</td>
</tr>
<tr>
<td>90</td>
<td>18.0’ 18.0’</td>
<td>34.0’ 34.0’</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parking Angle</th>
<th>9.0’ STALL WIDTH x 18’</th>
<th>10.0’ STALL WIDTH x 18’</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AISLE</td>
<td>ONE ROW</td>
</tr>
<tr>
<td></td>
<td>ONE WAY</td>
<td>TWO WAY</td>
</tr>
<tr>
<td>A</td>
<td>D</td>
<td>Y1</td>
</tr>
<tr>
<td>30</td>
<td>10.7’ 20.0’</td>
<td>27.5’ 36.8’</td>
</tr>
<tr>
<td>40</td>
<td>11.0’ 20.0’</td>
<td>29.5’ 38.1’</td>
</tr>
<tr>
<td>50</td>
<td>11.4’ 20.0’</td>
<td>31.0’ 39.8’</td>
</tr>
<tr>
<td>60</td>
<td>14.0’ 20.0’</td>
<td>34.0’ 40.0’</td>
</tr>
<tr>
<td>70</td>
<td>17.0’ 20.0’</td>
<td>37.0’ 40.0’</td>
</tr>
<tr>
<td>80</td>
<td>19.7’ 20.0’</td>
<td>39.0’ 39.3’</td>
</tr>
<tr>
<td>90</td>
<td>22.0’ 22.0’</td>
<td>40.0’ 40.0’</td>
</tr>
</tbody>
</table>

**NOTES:**
Refer to Figures 13 thru 19
## CITY OF DALLAS
### BUILDING INSPECTION APPLICATION

<table>
<thead>
<tr>
<th>DATE</th>
<th>USE OF PROPERTY</th>
<th>ADDRESS OF PROPOSED PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OWNER/TENANT</th>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DBA (IF APPLICABLE)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>APPLICANT (PRINT)</th>
<th>CONTR. #</th>
<th>SSN OR PII (IF APPLICABLE)</th>
<th>COMPANY NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ADDRESS</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP</th>
<th>PHONE #</th>
<th>FAX #</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DESCRIPTION OF PROPOSED PROJECT</th>
<th>NEW SQ FT</th>
<th>REMODEL SQ FT</th>
<th>LEASE</th>
<th>NEW CONST $</th>
<th>REMODEL $</th>
<th>TOTAL $</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SQU. FT.</td>
<td></td>
<td></td>
<td>VALUE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PLEASE INDICATE ALL TYPES OF WORK THAT WILL BE PART OF THIS PROJECT BY CHECKING THE APPROPRIATE CIRCLE AND PROVIDE CONTRACTOR/SUBCONTRACTOR INFORMATION ON THE BACK OF THIS FORM FOR THIS PROJECT.

- [ ] BUILDING
- [ ] PLUMBING
- [ ] LAWN SPRINKLER
- [ ] FENCE
- [ ] SWIMMING POOL
- [ ] ELECTRICAL
- [ ] FIRE SPKR
- [ ] FLAMM LQID
- [ ] BARRICADE
- [ ] FIRE ALARM
- [ ] MECHANICAL
- [ ] LANDSCAPE
- [ ] DRIVE APPROACH
- [ ] SIGN
- [ ] OTHER

### WILL YOU SELL/SERVE ALCOHOL? [ ] YES [ ] NO
### DO YOU HAVE A DANCE FLOOR? [ ] YES [ ] NO

I HAVE CAREFULLY READ THE COMPLETED APPLICATION AND KNOW THE SAME IS TRUE AND CORRECT AND HEREBY AGREE THAT IF A PERMIT IS ISSUED ALL PROVISIONS OF THE CITY ORDINANCES AND STATE LAWS WILL BE COMPLIED WITH WHETHER HEREIN SPECIFIED OR NOT. I AM THE OWNER OF THE PROPERTY OR THE DULY AUTHORIZED AGENT. PERMISSION IS HEREBY GRANTED TO ENTER PREMISES AND MAKE ALL INSPECTIONS.

**APPLICANT SIGNATURE**

### BELOW FOR OFFICE USE ONLY

#### For Fax Customers Only

Credit Card Type
- [ ] VISA
- [ ] MASTERCARD
- [ ] AMEX
- [ ] CARTE BLANCHE
- [ ] DINERS CLUB

Credit Card Number: ____________

Customer No.: ____________

Expiration Date: ____________

Billing Zip Code: ____________

### REMARKS:

#### ROUTE TO

- [ ] PRE-SCREEN
- [ ] PRE-INSPECTION
- [ ] ZONING
- [ ] BUILDING
- [ ] ELECTRICAL
- [ ] PLUMBING/MECH
- [ ] HISTORICAL
- [ ] PUB WORKS
- [ ] WATER
- [ ] HEALTH
- [ ] FIRE
- [ ] AVIATION
- [ ] LANDSCAPE
- [ ] OTHER

**FORM #1**

### FEE CALCULATIONS

<table>
<thead>
<tr>
<th>FEE CALCULATIONS</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PERMIT FEE</td>
<td></td>
</tr>
<tr>
<td>SURCHARGE</td>
<td></td>
</tr>
<tr>
<td>PLAN REV.</td>
<td></td>
</tr>
<tr>
<td>POSTAGE</td>
<td></td>
</tr>
<tr>
<td>OTHER FEES</td>
<td></td>
</tr>
<tr>
<td>TOTAL FEE</td>
<td></td>
</tr>
</tbody>
</table>

DEVELOPMENT SERVICES DEPARTMENT/BUILDING INSPECTION DIVISION
OAK CLIFF MUNICIPAL CENTER, 320 E. JEFFERSON BLVD, DALLAS, TEXAS 75203 TELEPHONE 214/948-4480
REV 09/22
CITY OF DALLAS PAVING BOND FORM

THE STATE OF TEXAS) KNOW ALL MEN BY THESE PRESENTS:
COUNTY OF DALLAS)

THAT WE, ___________________________, AS PRINCIPAL,
AND ___________________________, AS SURETY,

HEREBY ACKNOWLEDGE OURSELVES HELD AND FIRMLY BOUND AND PROMISE TO PAY TO
THE CITY OF DALLAS, A MUNICIPAL CORPORATION, THE SUM OF TWO THOUSAND DOLLARS
AND NO/100 ($2,000.00) FOR THE PAYMENT OF WHICH AT DALLAS, DALLAS, COUNTY, TEXAS
WELL AND TRULY TO BE MADE, WE BIND OURSELVES, OUR HEIRS, EXECUTORS,
ADMINISTRATORS, SUCCESSORS AND ASSIGNS JOINTLY AND SEVERALLY.

THE CONDITION OF THIS OBLIGATION IS SUCH THAT:

WHEREAS, THE ABOVE BOUNDED PRINCIPAL IS ENGAGED IN THE BUSINESS OF
CONSTRUCTION, RECONSTRUCTION AND REPAIR OF SIDE WALKS, CURBS, GUTTERS OR
DRIVEWAY APPROACHES IN THE CITY OF DALLAS AND DESIRES TO CONTINUE SO TO DO.
NOW THEREFORE, IF THE SAID PRINCIPAL SHALL DO ALL IN THE CONSTRUCTION,
RECONSTRUCTION AND REPAIR OF THE SIDEWALKS, CURBS, GUTTERS OR DRIVEWAY
APPROACHES IN A GOOD WORKMANLIKE MANNER AND SHALL IN THE CONSTRUCTION,
RECONSTRUCTION AND REPAIR OF SIDEWALKS, CURBS, GUTTERS OR DRIVEWAY
APPROACHES, STRICTLY COMPLY WITH THE SPECIFICATIONS PRESCRIBED BY THE CITY OF
DALLAS AND ANY AMENDMENTS THAT MAY BE MADE THEREOF, AND WITH TERMS AND
PROVISIONS OF ALL ORDINANCES, RESOLUTIONS AND REGULATIONS OF THE CITY OF
DALLAS NOW IN FORCE, OR THAT MAY BE MADE HERE AFTER PASSED, BY THE CITY COUNCIL
OF THE CITY OF DALLAS, GOVERNING AND RELATING TO THE CONSTRUCTION,
RECONSTRUCTION AND REPAIR OF SIDEWALKS, CURBS, GUTTERS OR DRIVEWAY
APPROACHES, AND IF THE SAID PRINCIPAL SHALL FULLY INDEMNIFY AND HOLD WHOLE AND
HARMLESS THE CITY OF DALLAS FROM ANY AND ALL COSTS, EXPENSE AND OR DAMAGE,
REAL OR ASSERTED ON ACCOUNT OF ANY INJURY DONE TO ANY PERSON OR PROPERTY IN
THE PROSECUTION OF SAID WORK, FURTHER, IF THE SAID PRINCIPAL SHALL, WITHOUT
ADDITIONAL COST TO ANY PERSON, FIRM OR CORPORATION FOR WHOM ANY SUCH WORK IS
DONE, MAINTAIN WALKS, CURBS, GUTTERS OR DRIVEWAY APPROACHES SO CONSTRUCTED,
RECONSTRUCTED OR REPAIRED BY THE SAID PRINCIPAL FOR A PERIOD OF FIVE (5) YEARS
FROM THE DATE SUCH CONSTRUCTION, RECONSTRUCTION, OR REPAIR, TO THE
SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS, THE CITY OF DALLAS AND AS THE
NECESSITY FOR SUCH RECONSTRUCTION OR REPAIR BEING CONCLUSIVE AND BINDING ON
THE PARTIES THEREO, THEN THIS OBLIGATION SHALL BECOME NULL AND VOID;
OTHERWISE, IT SHALL REMAIN IN FULL FORCE AND EFFECT.

THIS OBLIGATION SHALL EXPIRE ON JANUARY 1, 2004, BUT AS TO THE MAINTENANCE
OBLIGATION ON EACH JOB CONSTRUCTION, RECONSTRUCTION OR REPAIR OF SIDEWALKS,
CURBS, GUTTERS OR DRIVEWAY APPROACHES, THIS OBLIGATION SHALL CONTINUE FROM
DATE OF COMPLETION OF SAME FOR A PERIOD OF FIVE (5) YEARS, RECURSIE ON THIS
OBLIGATION MAY BE HAD BY THE CITY OF DALLAS OR BY ANY PERSON, FIRM OR
CORPORATION FOR WHOM ANY WORK OF CONSTRUCTION, RECONSTRUCTION, OR REPAIR OF
SIDEWALKS, CURBS, GUTTERS OR DRIVEWAY APPROACHES IS DONE BY THE SAID PRINCIPAL;
AND WHO MAY BE AGGRIEVED OR INJURED BY A BREACH OF ANY OF THE FORGOING
CONDITIONS, AND THIS OBLIGATION SHALL BE CONTINUING ONE AGAINST THE PRINCIPAL
AND SURETY HEREON AND SUCCESSIVE RECOVERIES MAY BE HAD FOR SUCCESSIVE
BREACHES, UNTIL THE ENTIRE AMOUNT SHALL HAVE BEEN EXHAUSTED. IF ANY LEGAL
ACTION BE FILED UPON THIS BOND, VENUE SHALL LIE IN DALLAS COUNTY, TEXAS.

WITNESS OUR HANDS THIS THE ___________ DAY OF ___________ A.D. 20___.

PRINCIPAL (PRINT) ___________________________ ADDRESS ___________________________

BY: (SIGNATURE) ___________________________ CITY ___________ ST ___ ZIP

RESIDENT AGENT SURETY: ___________________________

NAME ___________________________
ADDRESS ___________________________
CITY ___________________________ ST ___ ZIP

__________________________________________________________
CONTRACTOR # ___________ EXPIRES ___________ APPROVED

FORM #2
City of Dallas
Attn: Utility Coordinator
320 E. Jefferson Blvd., #312
Dallas, TX 75203

PERMIT APPLICATION
FOR REVIEW & APPROVAL OF ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT OF WAY
(Articles VIII and IX of Chapter 43, "Streets and Sidewalks," of the Dallas City Code)

Date of Application: 
(PLEASE CHECK ALL APPLICABLE) 
0 EMERGENCY 
0 NON-EMERGENCY

1. Public Service Provider
Are you registered w/ City of Dallas? Yes ___ No ___
(If Yes, you do not need to provide another proof of insurance)

2. Long Distance Carrier
3. Governmental Entity or Agency (other than City of Dallas)
4. Contractor
5. Other __________________________

Is this project crossing the right of way of other Governmental Entities or Agencies? Yes ___ No ___
If Yes, please check all applicable: 0 TxDOT 0 NTTA 0 County(s): _________ 0 City(s): _________ 0 Other ______

Do you have a document of approval from each above entity or agency? Yes ___ (please attach) No ___

Is this project crossing or utilizing private property, including abandoned streets? Yes ___ No ___
Do you have a letter of permission from the owner(s)? Yes ___ (please attach) No ___

Your application will not be processed until receipt of above document(s)

HAVE YOU ATTACHED THE FOLLOWING ITEMS WITH YOUR SUBMITTAL?:
1. 3 sets of plans, prepared per section 43-139 (c) (5) of the City Code
(To be submitted w/ cover letter from Owner of facility, requesting plan review)
2. Proof of insurance as required per section 43-140 of the City Code

A) Name of the Company that owns the facilities to be constructed:

B) Project Name:

C) Permittee’s Name:
First: Middle: Last:

D) Permittee’s Company Name:

Address:

E) Permittee’s:
Telephone No. __________________________ Cellular No. __________________________
Fax No. __________________________ E-mail Address __________________________

F) State name and address of owner of facilities upon completion of construction:
Name: __________________________ Address: __________________________
Contact Name: __________________________ Tel. No. __________________________ E-mail: __________________________

G) Permittee’s Statement: __________________________ (print Permittee’s Company Name) representatives have collected all available plans for existing City of Dallas underground facilities and other public and private utilities, and have included them in our design, showing no apparent conflict. Further Permittee affirms that __________________________ (print Permittee’s Company Name) will perform field verifications as necessary during construction to locate all city and other existing underground facilities.

Permittee’s Name (print) __________________________ Signature: __________________________

FOR CITY USE ONLY
Permit Approved by City of Dallas: Yes ___ No ___

Name: __________________________ Title: Utility Coordinator

Signature: __________________________ Date: __________________________

H) If this permit is approved, please complete a “Street Excavation Data Form”, (for copies call 214-948-4445), attach it to this form and fax both forms to: PW&T Cut Control Section at: 214-948-4030

FORM #3
### PERMIT APPLICATION (Short Form)

**FOR REVIEW & APPROVAL OF ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT OF WAY**  
(Articles VIII and IX of Chapter 43, "Streets and Sidewalks," of the Dallas City Code)

<table>
<thead>
<tr>
<th>Date of Application:</th>
<th>System Subscriber ☐</th>
<th>Non-Subscriber ☐</th>
</tr>
</thead>
</table>

**A) Name of the Owner that is requesting this permit:**

- Address: ____________________________
- Telephone No. ________________________  Fax No. ________________________

**B) Applicant’s Representative:**

- Telephone No. ________________________  Fax No. ________________________

**C) Contractor’s Name:**

- Address: ____________________________
- Telephone No._______________________  Cellular No. ____________________  Fax No. ________________________

**D) Project Location/Address:**

- Mapsco #: __________  Reason for Permit: ____________________________

**E) Number of Cuts _________ Excavation Area _________ Ft. X _________ Ft.**

- Type of surface:  ☐ Concrete  ☐ Asphalt  ☐ Other
- Type of Improvement:  ☐ Street  ☐ Sidewalk  ☐ Alley  ☐ Other
- Direction of Cut to Traffic Lanes:  ☐ Crossing  ☐ Parallel  ☐ Bore
- Lanes Closed to Traffic __________

**F) Start Date ____________  Est. Completion Date ____________**

<table>
<thead>
<tr>
<th>Owner’s Name (print)</th>
<th>Signature:</th>
<th>Comments:</th>
</tr>
</thead>
</table>

**FOR CITY USE ONLY**

- Permit Approved by City of Dallas:  Yes ☐  No ☐
- Name: Vince Thill, Utility Coordinator
- Signature: ________________________  Date: ________________________
CITY OF DALLAS
STREET EXCAVATION DATA FORM

PERMIT NUMBER

EFFECTIVE DATE

☐ EMERGENCY
☐ NON-EMERGENCY

APPLICANT:

☐ System Subscriber (Skip to "Applicant's Representative")
☐ Non-Subscriber

Name ________________________________
Address ________________________________
Phone ________________________________

APPLICANT'S REPRESENTATIVE:

Name ________________________________
Phone ________________________________

CONTRACTOR:

Name ________________________________
Address ________________________________
Phone ________________________________
Emergency Phone No. ________________________________

REASON FOR JOB: ☐ New Service
☐ New Line or Multiple Adjustments
☐ Repair Existing Service
☐ Stop Service or Abandon Line
☐ Exploration ☐ Adjustment

JOB LOCATION:

☐ Address ☐ Intersection ☐ From-To

Mapsco Page: __________

☐ Front ☐ Rear ☐ Side

Is excavation part of a planned project previously approved by the City?

☐ No ☐ Yes (If Yes, list reference #)

JOB DESCRIPTION: Excavation Depth

☐ More/ ☐ Less than 1 foot
Excavation Area - _______ Ft. × _______ Ft.
Number of Cuts - _________________________

Type of Surface

☐ Concrete ☐ Asphalt ☐ Other

Type of Improvement

☐ Street ☐ Sidewalk ☐ Alley
☐ Median ☐ Parkway

Direction of Cut to Traffic Lanes

☐ Crossing ☐ Parallel ☐ Bore

Lanes Closed to Traffic

☐ 0 (Zero) ☐ 1 (One) ☐ 2 (Two)
☐ 3 (Three) ☐ 4 (Four) ☐ 5 or More
☐ Entire Street

START DATE ________________________________
EST. COMPLETION DATE ________________________________

COMMENTS: __________________________________________

____________________________________________________

FORM #5
CITY OF DALLAS
STREET EXCAVATION PERMIT

JOB LOCATION:
☐ Address ☐ Intersection ☒ From - To

☐ Front ☐ Rear ☐ Side

3000-3200 PEORIA AV

Mapsco: ☒ 42 R District: ☐ 2

□ From - To

IS EXCAVATION PART OF A PLANNED PROJECT PREVIOUSLY APPROVED BY THE

CITY? ☐ No ☒ Yes - If Yes, give reference #: A0400122

JOB DESCRIPTION: Excavation Depth
☐ More / ☐ Less than 1 foot

Excavation Area -

Type of Surface:
Concrete ☐ Asphalt ☒ Other

Type of Improvement:
Street ☑ Sidewalk ☐ Alley

Direction of Cuts:
Median ☐ Median ☐ Parkways

Lanes Closed to Traffic:
0 / 1 / 2 / 3 / 4 / 5 or More / Entire Street

START DATE ☑ 10/27/03

EST. COMPLETION DATE ☑ 11/1/03

EXTENSION DATE __________________________ #OF EXT

REASON FOR JOB: ☒ New Service

☐ New Line or Multiple Adjustments

☐ Repair Existing Service

☐ Stop Service or Abandon Line

☐ Exploration ☐ Adjustment ☐ Base Repair

COMMENTS

SUBSCRIBER: HEAT TREATMENT SERVICES, INC. 281-361-0663
I. HIGH-DENSITY RESIDENTIAL (TH3, TH4, MF, MH, CH) or COMMERCIAL

NOTES:
1a. For Driveway Approaches on local and collector streets, use 7' Wing length or R=5' (for driveway width of 15' or greater, use 5' Wing length)
1b. For Driveway Approaches on Arterials, use 10' Wing length or R=10' min.
2. Driveway Spacing 20' min. on Arterials.
3. CBD Driveway Approaches require Special Standards. See Std. Constr. Details, File 251D-1, page 1007
4. 60' max. width may be used for WB-50 loading docks.

b. One-Way Operation (Angle Approach)

II. LOW-/ MEDIUM-DENSITY RESIDENTIAL (R-1 through R-7.5, TH1 and TH2)

Figure 1: Driveway Standards
Department of Development Services / Engineering Division
I. INTERSECTION WITHOUT FREE-RIGHT-TURN LANE
   A. Arterial at Arterial, Arterial at Community Collector, Arterial at Local St with School / Pedestrian Crosswalks
      1. 90° Driveway Approaches
         
         \begin{align*}
         & W \\
         & \text{55'} \text{ Min.} \\
         & \text{55'} \text{ Min.} \\
         & \text{10'} \text{ Min.} \\
         \end{align*}
         
         \begin{align*}
         & W \\
         & \text{45'} \text{ Min.} \\
         & \text{45'} \text{ Min.} \\
         \end{align*}
         
         NOTES:
         
         1. For Arterials (both 90° and angle approaches), the location of driveway depends upon speed and percent of free-right-turn traffic volume.
         
         2. For "D" value, see Table 3

   B. Arterial at Residential Collector or at Local Street, Residential Collector at Local Street
      
      \begin{align*}
      & W \\
      & \text{40'} \text{ Min.} \\
      & \text{40'} \text{ Min.} \\
      & \text{10'} \text{ Min.} \\
      & \text{Carb Inlet} \\
      & d \\
      & \text{30'} \text{ on Local to Local} \\
      & \text{d = 40'} \text{ on Local to Collector} \\
      \end{align*}
      
   II. INTERSECTION WITH FREE-RIGHT-TURN LANE
      
      A. without Acceleration or Deceleration lane  
      B. with Acceleration or Deceleration lane  
      C. with Continuous Flow
      
      \begin{align*}
      & W \\
      & \text{30'} \\
      & \text{35'} \text{ W} \\
      \end{align*}
      
      \begin{align*}
      & W \\
      & D+20' \\
      & \text{D + 10'} \text{ Carb Inlet} \\
      & \text{10'} \\
      \end{align*}
      
      ** See table 3 for D values
      
      \begin{align*}
      & W \\
      & D + 10' \\
      & \text{D + 10'} \text{ W} \\
      \end{align*}
      
      NOTES:
      
      For typical street corner curb return radii, see Plate IV-12, IV-13, and IV-14 of the PW&T Paving Design Manual, June,1998
      
      For Driveway Flare and Width Standards, see Figure IV-19 of the PW&T Paving Design Manual, June,1998.

--- Not to Scale---

Reference: Fig III-2 in PWT Paving Design Manual, June 1998

Figure 2: Minimum Distances from Intersections for Drives

Department of Development Services / Engineering Division
NOTE: It may be desirable to place jiggle bars in Cross-Hatched Area to Discourage Crossing.  
*Longer distance desirable particularly for high volume Exit Ramp and/or Frontage Roads.
45' x 45' Visibility Triangle in all Zoning except:
- CBD – Central Business District
- PD 269 (Deep Ellum / Near Eastside District)
- PD 225 (State – Thomas Special Purpose District)
- PD 193 (Oak Lawn Special Purpose District: only for streets listed in the Thoroughfare Plan) where the visibility triangle is 30' x 30'

Figure 4: Visibility Triangle Guidelines
Department of Development Services / Engineering Division
Central Business District Defined

For the purpose of this division, the Central Business District shall be that area bounded by the following street lines:

- The South line of Young Street from Houston Street to Central Expressway.
- The East line of Central Expressway from Young Street to Pacific.
- The north line of Pacific Avenue from Central to Pearl.
- The East line of Pearl Street from Ross to St. Mary's.
- The South line of St. Mary's from Pearl to Ross.
- The North line of Ross Avenue from Pearl to Houston.
- The West line of Houston Street from Ross to Young.

(Ordinance 14584)

Figure 4a: Central Business District
Department of Development Services / Engineering Division
Figure 4b: PD 269 (Deep Ellum / Near Eastside District)
Department of Development Services / Engineering Division

- Not To Scale -
Figure 5: Sight Distance at Intersections
Department of Development Services / Engineering Division
Visibility Obstruction Triangle
20' x 20' for Driveway
45' x 45' for Street Intersection

NOTE:
The guardhouse must be at least 30 feet from the Right of Way per Dallas Development Code Sec. 51A-8.604 (d) (12)

Figure 6: Detail for Gated Entry
Department of Development Services / Engineering Division

Revised 12/19/2007
Figure 7: Driveway Profile
Department of Development Services / Engineering Division
Figure 8: Drives Without Culverts

Transition shoulder slope to Match Drive

- 14% Max. Grade Break
  - Without Vertical Curve
- 3/16” Per 1’ Usual
  - 2% Minimum
  - 6% Maximum
- 5” Fine Grade Asphaltic Concrete

Edge of Pavement

- 10’ Vertical Curve
- 10’
- 20% Maximum Grade Break for 10’ Vertical Curves
- 5” Fine Grade Asphaltic Concrete

Warp Walk to Match Drive
- 2% Desirable per ADA
- 8% Maximum

Property Line

Restore Drive Surface Behind Property Line to Equal or Better

- 3/16” Per 1’ Usual
- 6%
- Sag

- Not To Scale -

Department of Development Services / Engineering Division
Figure 9: Drives with Culverts

- Not To Scale -

Department of Development Services / Engineering Division
Figure 10: Handicapped Passenger Loading Zone & Signage

1. All Dimensions and Signage must adhere to the Texas Accessibility Standards (TAS)

**Figure 11: Handicapped Parking**

Department of Development Services / Engineering Division

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**Notes:**

1. Refer to PW&T Standard Construction Details.
   File 251D-1 for Details.

2. TAS requires a minimum of 1 designated "van accessible" space for every 8 accessible spaces. Minimum of one "van accessible" space is required.
Figure 12: Design Vehicle for Parking Stall Design

Department of Development Services / Engineering Division
For Dimensions, See Table 11
A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

No Parking is allowed in the 20' x 20' visibility triangle (Ordinance 19062)

10' Radius Typical
11.5' Typical

20'
20'
20'
12' Min.

Figure 13: Right Angle (90°) Parking
Department of Development Services / Engineering Division
For Dimensions, See Table II
A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

No Parking in the Visibility Triangle
(Ordinance 19062)

Figure 14: 30° Angle Parking
Department of Development Services / Engineering Division
For Dimensions, See Table 11
A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

No Parking is allowed in Visibility Obstruction Triangle (Ordinance 19062)

Figure 15: 40° Angle Parking
Department of Development Services / Engineering Division
For Dimensions, See Table II
A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

No Parking is allowed in Visibility Obstruction Triangle (Ordinance 19062)

10' Radius Typical
12' Min.
20' 20'
20' 10' Min.

Property Line

One Way

One Way

Figure 16: 50° Angle Parking
Department of Development Services / Engineering Division
For Dimensions, See Table 11
A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

No Parking is allowed in Visibility Obstruction Triangle
(Ordinance 19062)

10' Radius Typical

12' Min.

20'

Property Line

15' Min.

Figure 17: 60° Angle Parking
Department of Development Services / Engineering Division
For Dimensions, See Table 11

A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

Figure 18: 70° Angle Parking
Department of Development Services / Engineering Division
For Dimensions, See Table 11

A = Parking Angle
B = Stall Width
D = Aisle Width
Y1 = Module width, one row
Y2 = Module width, two rows

No Parking is allowed in Visibility Obstruction Triangle
(Ordinance 19062)

Figure 19: 80° Angle Parking
Department of Development Services / Engineering Division
Columns, Walls or Fixed Objects Within This Area Assigned For Door Clearance Will Require An Additional width of 1.5' for Opening of door

3' Min. Required Aisle Must be Clear Area

Column Set Back 1'-0" From Clear Area 4' Max.

4' Max.

Door Clearance

10" Max.

- Not To Scale -

Figure 20: Structured Parking Garage
Department of Development Services / Engineering Division
Minimum Turning Radius = 24'
1" = 20" Scale

Path of Left Front Wheel
Path of Overhang

24' Minimum Turning Radius
15.3' Min.
25.8' Max.

Path of Rear Overhang
Path of Right Rear Wheel

Figure 21: "P" Design Vehicle Turning Radius
Department of Development Services / Engineering Division
Figure 23: "Bus" Design Vehicle
Department of Development Services / Engineering Division
Figure 25: Fire Truck Turning Template
Department of Development Services / Engineering Division
Figure 26: Automobile Overhang Dimensions

Department of Development Services / Engineering Division
* Dimensions may be other sizes as noted in Table II

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4" Diameter ceramic buttons
Spaced at 2' or 3' on Center

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Figure 27: Methods for Marking Parking Stalls
Department of Development Services / Engineering Division
Figure 28: Striping Detail for Compact Car Spaces

Department of Development Services / Engineering Division

- Not To Scale -
FIGURE 29: SAMPLE LAYOUT FOR PARKING ON 50' & 60' LOTS

Department of Development Services / Engineering Division

Reference: Dallas City Code 51A-4.301