



Town of Parker Community Development Department  
 Development Review Division  
 Attention: ~~Ashley Chasez~~ Amber Wood Hicken

Application Type: **Site Plan**  
 Status: **First Referral**  
 Application Name: Parker Pointe F1 AMD 1 L2A - McDonald's Site Plan  
 Case/AP#: **SP24-012**  
 Referral Received: March 18, 2024  
 Comments Due: April 15, 2024

Application Location: Generally located on the east side of Parker Road south of Mainstreet.  
 Address: 20120 Mainstreet, Parker, Colorado 80138

Review date: **March 19, 2024**  
 Plan reviewer: **Randall L. Capra**, [rcapra@parkeronline.org](mailto:rcapra@parkeronline.org)  
 Phone: 303.805.3163

**Narrative:** The applicant, Strategic Land Solution, is proposing site and building changes to an existing McDonalds including new materials, drive through reconfiguration and changes to vehicular circulation. The site is located on the east side of Parker Road south of Mainstreet.

**Code Reference:** 2021 International Fire Code, 2021 International Building Code, 2020 NEC (Note – as of January 1, 2025, all submittal documents will be required to meet the 2024 edition of the ICC Code family as well as meeting the required editions of any referenced standard, as documented in the newly adopted codes.

<b>TOWN OF PARKER FIRE/LIFE SAFETY:</b>	<b>R REVIEWED FOR CODE COMPLIANCE; REVISIONS REQUIRED</b>
---	---

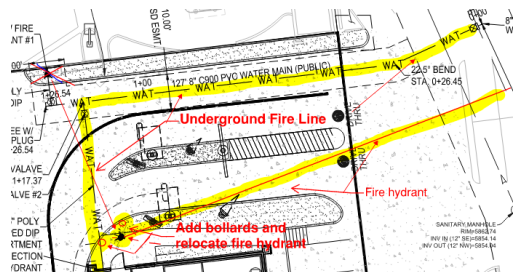
- 1<sup>st</sup> Submittal – Reviewed March 19, 2024
- 2<sup>nd</sup> Submittal – Reviewed March 25, 2025 (*Comments in red, italicized font*)

**UNRESOLVED ISSUES/COMMENTS**

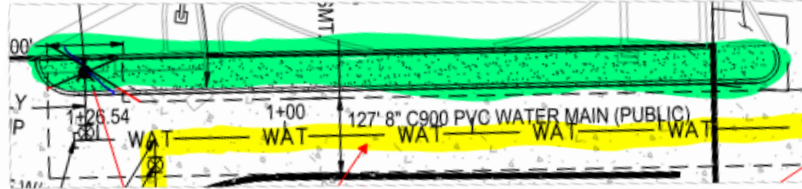
*The items noted below with a comment number (1, 2 etc.) are items that need to be corrected to show compliance with the applicable codes. Provide a REQUIRED written response to this letter indicating where the corrections are made on the plans (cloud the plans as applicable). This will speed up the second review process.*

*Second Submittal Comments in red, italicized font: The applicant has addressed many of the items while partially addressing two of the items. The applicant has also not addressed the requirement to provide the required plan for the riser/FACP room. As noted, this is a requirement for this submittal. As it has been over one year since I made this comment, the applicant has had time to address the issue. See the following and address all issues as required.*

1. The utility drawings indicated that the UFL and the fire hydrant are shown to share a “common” dead end line. This is not allowed. The fire hydrant shall be on its own separate tap and the UFL shall be located on its own separate tap. Address this issue when resubmitting. *Satisfied; the applicant has addressed this issue with the second submittal.*



2. The access around the building (north side, is shown to be only 10 feet wide; it preapplication meetings, I believe that we had discussed a 15-foot drive aisle (possibly 14 foot?). In any case, ten feet is a bit too narrow. I would propose that the narrow landscape area to the north be minimized (reduced in width) and constructed as a raised rolled curb that is designed to withstand the weight bearing requirements of an 80,000-pound rig. Note the fire hydrant shall be relocated. *Satisfied; the applicant has addressed this issue with the second submittal. Note – the applicant has provided clarification and confirmed the required access through Wells Fargo.*

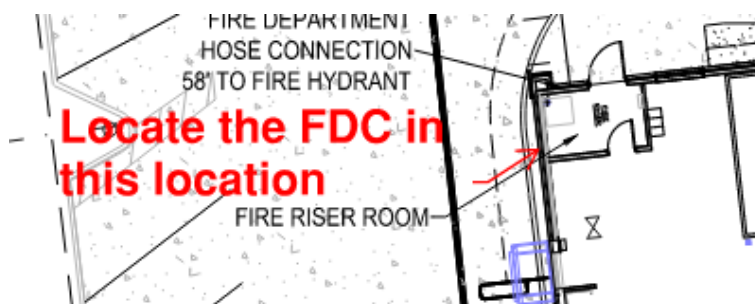


3. As noted in item #1, the fire hydrant shall be relocated to the area that was previously discussed; this area would be in the area just to the west of the inside drive through lane menu order board. As an FYI, this is the general area of the fire hydrant that was located for the McDonalds on Chambers and Hess, for the proposed McDonalds at Stroh and Parker Road, and the proposed McDonalds at Chambers and Cottonwood. Address this issue when resubmitting. See the redlined detail in item #1 for more information on this matter. *Satisfied; the applicant has addressed this issue with the second submittal.*
4. The riser room shall be sized to accommodate the following:

- The underground fire line is not allowed to have domestic tapped off of it
- The sprinkler riser is allowed to enter no further than 24-inches into the building (and **no** less than 12-inches into the building).
- A three-foot clearance shall be provided in front of the riser (with 18" of clearance on either side of the riser).
- The fire alarm control panel (FACP) is required to be located on an interior wall.
- A three-foot clearance is required in front of the FACP.
- Exterior access is required to be provided into the riser room; this access shall be approved.
- Access into the building shall be provided through the riser room or immediately adjacent to the riser room.
- While domestic water can be located in the riser room, the domestic cannot be located in any way that conflicts with the access requirements for both the FACP and the sprinkler riser.
- A sidewalk is required to the riser room and a 5 x 5 pad is required in front of the FDC.

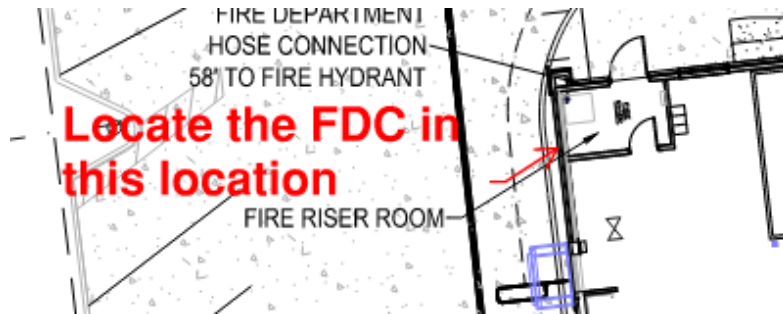
The applicant shall **provide a floor plan of how the riser room is to be laid** out to avoid conflicts with the site plan once the building review submittal has been made; **this project will not be approved without this requirement having been met and approved.** *Not Satisfied with the second submittal. The requirement shall be met with this site plan... as noted previously (see yellow highlight above). The applicant SHALL provide the required plan layout addressing the requirements as noted in item #4. Address this issue as required when resubmitting.*

5. The FDC shall be located in the area of the riser room; see below for the location required for the FDC: *Not Satisfied; while the applicant has addressed this issue on the site plan, the utility drawings are showing the FDC on the east side of the building, south end. When resubmitting, clean up the drawings (all sheets) such that there is not apparent conflict.*



6. The applicant shall provide an auto turn analysis indicating that apparatus can navigate all portions of this site; NO PARKING – FIRE LANE signage is required for any portion of the access where the 20-foot clear width requirement cannot be met. In this case, the applicant has provided an auto turn analysis for a portion of the site; the applicant shall update the analysis to include the right in/right out entry on the south portion of the site; see below and address when resubmitting: *Satisfied; the applicant has addressed this issue with the second submittal.*

Note – the area identified with the two blue rectangles is of particular concern. People tend to not stay within the lines and the 20-foot drive aisle on the south end creates a potential for delays in response specific to staged or waiting vehicles in this area. Ensure that this issue is addressed adequately or provide signage that states **NO PARKING OR STANDING – FIRE LANE** in this area (area shown on west side of building... south end as well as the south side of the building).



7. The applicant shall provide signage on both sides of the north access; east side shall state "ONE WAY" and the west side shall have signage that states "DO NOT ENTER" *Satisfied; the applicant has addressed this issue with the second submittal.*
8. The applicant shall provide NO PARKING – FIRE LANE signage for any portion of the access where the 24-foot clear width requirement cannot be met; areas that are required to have this signage are located on both the north and sides of the building. See below for areas highlighted in yellow: *Satisfied; the applicant has addressed this issue with the second submittal.*

Note - The Town of Parker requires that fire apparatus access roads meet the clear-width and weight-bearing standards of the jurisdiction in which the project is located. Roadways shall be designed to support the imposed weight of fire apparatus, 30-ton, two axle and 40-ton, three axle vehicles. An unimpeded clear width of 24-feet shall be maintained at all times. As such, any location where parked vehicles would obstruct this clear width requirement will require "NO PARKING – FIRE LANE" signage. *This signage shall be red on white. Design criteria has been provided at the end of this document; ensure compliance when resubmitting.*

9. The Fire Life Safety signature block used is the incorrect block; the correct block can be found at the end of this response letter. The Fire Life Safety signature block shall be provided on the cover sheet of the utility package and on the overall utility page. Note – DO NOT modify the size of the signature block when using on the submittal package. *Not Satisfied with the second submittal; the applicant is REQUIRED to use the signature block approved; this block can be found at the end of this document. The signature block is to be located on the cover sheet and the overall utility plan (Note – The correct signature block is shown on the cover sheet though the incorrect block has not been removed from this sheet... UT1.0 Sheet UT1.1 has the incorrect signature block with this block not required for this sheet. Remove the block. Sheet UT2.0 has the incorrect signature block, requiring removal with the correct signature block added to this sheet. The incorrect signature block shall be removed from all other sheets. Address this issue when resubmitting.*
10. *The applicant is showing the FDC to be located on the east side of the building, south end. This location is **not approved**, and the location shall be removed from the Overall Utility Document... and all documents that might show this location.*

#### GENERAL COMMENTS (as applicable)

All engineering documents submitted to the Town of Parker shall bear the wet signature and seal of the engineer or architect in responsible charge of the design.

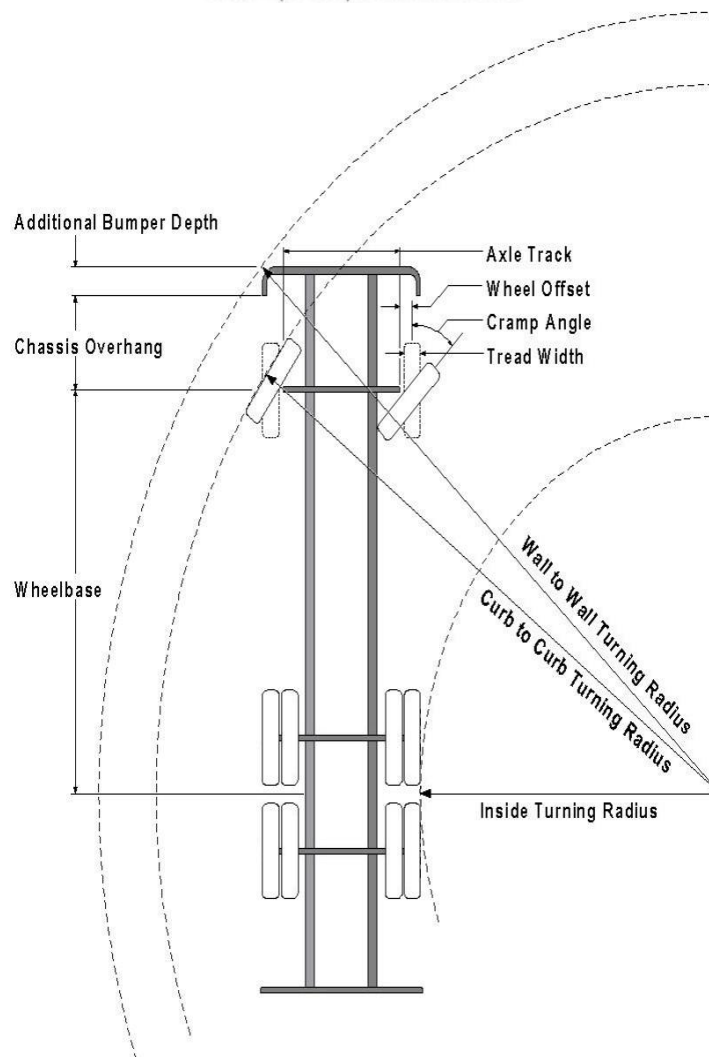
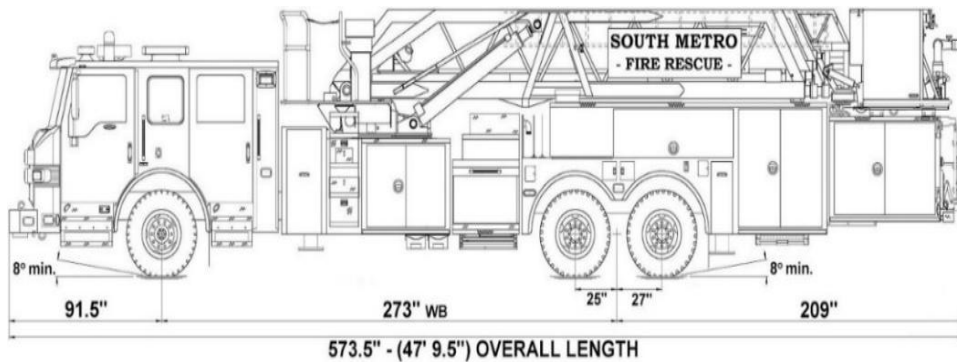
Water distribution and site access components shall be installed and in service prior to the construction of any portion of the structure, except by special permit issued by the Fire District.

### Underground fire lines

When thrust blocks are used as part of the pipe restraint system, submitted plans for permit shall provide detailed documentation that the thrust blocks satisfy all requirements of 19 NFPA 24: 10.8.2, including specific thrust block dimensions and mathematical calculations for block dimensions per guidelines provided in Annex A.10.8.2.

## **FIRE ACCESS ROAD DESIGN CRITERIA**

**VEHICLE SPECIFICATIONS** are provided for the largest apparatus in use by South Metro Fire Rescue. Fire Apparatus Access Roads shall be capable of accommodating this apparatus.



## Vehicle Specifications

Length: 47' 9.5"

Width: 8' 5" - (10' 1" mirror to mirror)

Height: 10' 9"

Wheelbase: 273 in.

Design load: 80,000 pounds

Inside Cramp Angle: 40°

Axle Track: 83"

Wheel Offset: 5.3"

Tread Width: 13.5"

## Turning Radii:

Inside Turn: 26 ft. 1 in.

Curb to curb: 41 ft. 11 in.

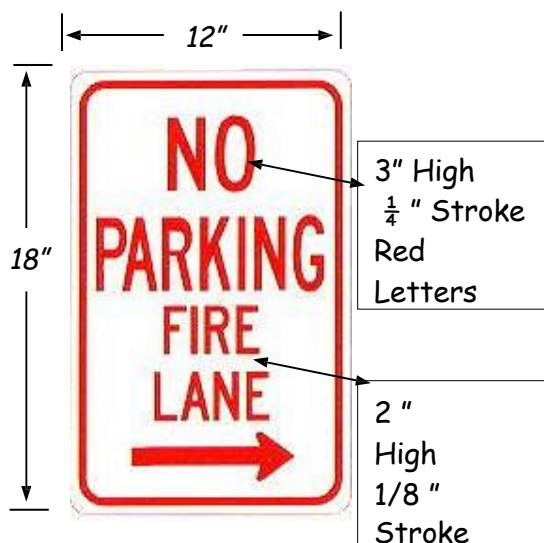
Wall to wall: 46 ft. 8 in.

**Where objects are present adjacent to the fire apparatus access road, particularly on turns and turn arounds which require backing, a reasonable safety margin shall be provided to prevent potential damage to the property and to the fire apparatus.**

PRIVATE ROADS that provide access to more than two dwellings or one or more commercial buildings shall be constructed to meet the roadway standards approved by the South Metro Fire Rescue Authority for fire apparatus access. Private roads that do not meet the roadway standard may be accepted provided that alternative methods and materials are incorporated into the subdivision that addresses the fire and life safety of the citizens.

**Posting of Fire Lanes:** The posting of the "Fire Lanes" is required.

**Fire Lane Sign Dimensions.** NO PARKING – FIRE LANE signs shall be 12 inches wide and 18 inches high.



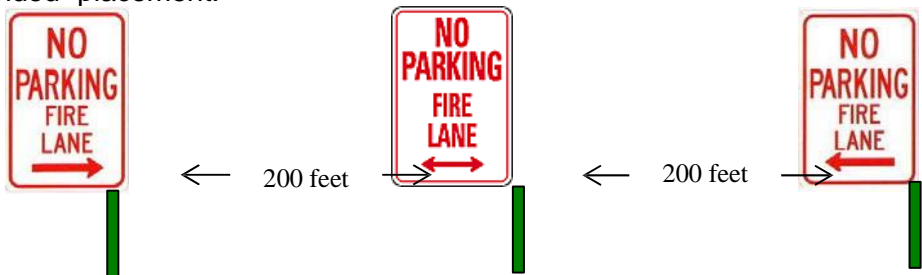
**Fire Lane Sign Characteristics:** Signs shall be engineer grade reflective sheeting on 0.80 aluminum with red lettering on a white background.

**Fire Lane Sign Locations.** Fire apparatus access roadways between 20 and 28 feet wide, signs shall be posted on *both sides*. Fire apparatus access roadways between 28 feet wide and 34 feet wide, signs may be posted on *one side only*.

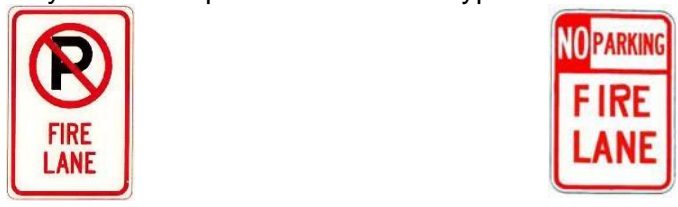
**Fire Lane Sign Installation.** NO PARKING – FIRE LANE signs shall be installed as follows:

1. Bottom edge of the signs shall be 7 feet above surface (sidewalk) and post shall be placed 24 inches from flow line (curb).
2. One sign at the beginning of the restriction (one arrow pointing towards the restriction zone).
3. One sign at the end of the restriction (one arrow pointing back into restricted zone).
4. One sign at least every 150 ft. within the restricted area (double arrow pointing in each direction, to indicate the continuing restriction).
5. Spaced evenly within the restriction (for straight curbs/zones). For example, if the parking restriction zone is 300 ft long, only one double arrow sign is required at a distance of 150 ft. from the beginning of the restriction. If the restriction zone is 400 ft. long, two double arrow signs are required; spaced 100 ft. evenly from each other and from the beginning/ending signs.
6. Spaced so that at least one readable sign is visible in front of a parked vehicle from any point along the restriction (for curved curbs/zones and areas that may present visual obstacles.)
7. Set at an angle of no fewer than 30 degrees and no more than 45 degrees with the lane of traffic flow visible to approaching traffic.
8. Signs shall be provided at all normal and emergency access points to structures and within 20 feet of each fire hydrant and fire department connection (FDC) in compliance with UFC 901.4.2.
9. Some areas may need additional fire lane signs. Check with the Division of Life Safety for any additional requirements.

**Fire Lane Sign Types.** The diagrams below indicate the types of signs that may be used, and the recommended placement.



Additional sign styles may be used – provided the same type is used consistently.



**Painting of Curbs or Streets.** In addition to the required signage, South Metro Fire Rescue does permit fire lanes to be painted with curb or street markings. However, these markings shall not replace the required fire lane signs. Curbs may be painted red with 3-inch white block letters stating **NO PARKING – FIRE LANE**. Lettering shall be spaced every 15 feet.

## Underground Fire Line - Submittal Requirements

Reference: 2019 NFPA 24 [Installation of Private Fire Service Mains and Their Appurtenances](#)

A separate permit is required and will be issued pending review of a detailed submittal which must include the following:  
[21 IFC 901.2]

4.1.1 Working plans shall be submitted for approval to the authority having jurisdiction before any equipment is installed or replaced.

4.1.2 Deviation from approved plans shall require permission of the authority having jurisdiction.

4.1.3 Working plans shall be drawn to an indicated scale on sheets of uniform size, with a plan of each floor as applicable, and shall include the following items that pertain to the design of the system:

- (1) Name of owner
- (2) Location, including street address
- (3) Point of compass
- (4) A graphic representation of the scale used on all plans
- (5) Name and address of contractor
- (6) Size and location of all water supplies
- (7) The following items that pertain to private fire service mains:
  - (a) Size
  - (b) Length
  - (c) Location
  - (d) Material (ductile-iron, PVC., etc.)
  - (e) Point of connection to city main
  - (f) Sizes, types, and locations of valves, depth at which the top of the pipe is laid below grade
  - (g) Method of restraint (Meg-a-Lug or similar)

4.1.4 The working plan submittal shall include the manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any devices, piping, or fittings. Submittals must include installation specifications for thrust blocks, corrosion protection, restraint system, bedding, detail of pipe under the building up to, and including, the flange. When it is intended that a different contractor will extend the fire line from a stopping point outside the building, to the inside flange, a second submittal and permit is required.

**All tees, plugs, reducers, valves, and hydrant branches shall be restrained against movement by thrust blocks [10.8.2] or restrained joint systems [10.8.3]. When thrust blocks are used as part of the pipe restraint system, submitted plans shall provide detailed documentation that the thrust blocks satisfy all requirements of Section 10.8.2, including specific thrust block dimensions and mathematical calculations for block dimensions per guidelines provided in Annex A.10.8.2.**

Any individual or company who physically works on or installs any part of a fire suppression system, including underground supply lines, from public water lines to system risers and backflow preventers, **must** be registered with the Colorado Division of Fire Safety. [Dept of Public Safety, Division of Fire Safety, Fire Suppression Program 8 CCR 1507-11:3.1.2]  
Documentation of valid annual registration may be required with plan submittal.

The following website for the Colorado Division of Fire Safety will provide registration instructions.

<http://dfs.state.co.us/SuppAppsProclnsp.htm>

All submittals must display a wet stamp and original signature by a Colorado licensed professional engineer or NICET III, or higher, in fire suppression systems. [Dept. of Public Safety, Division of Fire Safety, Fire Suppression Program 8 CCR 1507

## **FIRE CODE REVIEW BLOCK**

All fire hydrants shall be installed according to water utility standards. The number and locations of the fire hydrants as shown on the Overall Utility Plan are correct as specified by the Town of Parker, Community Development Department.

---

Fire Code Official or Designated Representative

Date

(NOTE - Underground Fire Line (UFL) submittal documents must meet the requirements of NFPA 24 when submitting for review.)