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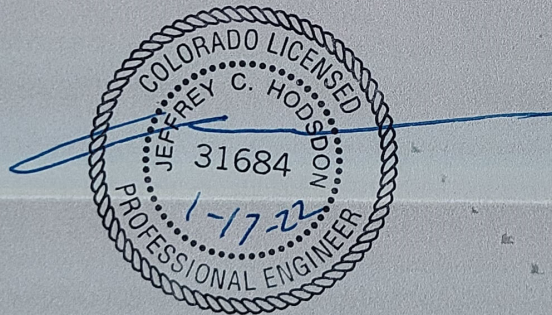
6665 Walker Road Minor Subdivision Transportation Memorandum



(LSC #S214800)
January 11, 2022

Traffic Engineer's Statement

This traffic report and supporting information were prepared under my responsible charge and they comport with the standard of care. So far as is consistent with the standard of care, said report was prepared in general conformance with the criteria established by the County for traffic reports.



Developer's Statement


I, the Developer, have read and will comply with all commitments made on my behalf within this report.

A handwritten signature in black ink, consisting of a large, stylized 'C' followed by a horizontal line.

1/11/2022
Date

LSC Responses to Traffic Memo Comments

Page: 1

 Number: 1 Author: jchodsdon Subject: Sticky Note Date: 9/26/2022 11:55:51
LSC responses to EPC PCD redline comments.

6665 Walker Road

Transportation Memorandum

Prepared for:

Kurtis Brown
ERP Iron Works
6665 Walker Road
Colorado Springs, CO 80908


JANUARY 11, 2022

LSC Transportation Consultants
Prepared by: Jeffrey C. Hodsdon, P.E.


LSC #S214800

← Add PCD File No.
SP-226¹



 Number: 1 Author: lpackman Subject: Callout Date: 8/11/2022 16:56:55

[Add PCD File No. SP-226](#)

 Author: jchodsdon Subject: Sticky Note Date: 9/26/2022 11:33:35

LSC Response: Added as requested.

Proposed Site Access

One access point is proposed for the property, located approximately 2,008 feet east of the intersection of Walker Road/Thompson Road (355 feet west of the existing driveway east of this site). This public road connection would be stop-sign-controlled on the northbound approach and would be a full-movement T-intersection with Walker Road.

ROAD AND TRAFFIC CONDITIONS

What is the posted speed limit?

Figure 1 shows the roads adjacent to and in the vicinity of the site. Adjacent roads serving the site are identified below followed by a brief description of each:

Walker Road is a paved, two-lane, “unimproved” rural roadway that extends east from State Highway (SH) 83. The *Major Transportation Corridors Plan (MTCP) 2040 Roadway Plan* shows Walker Road classified as a two-lane Minor Arterial east of Stepler Road and a 4-lane Minor Arterial roadway between Stepler Road and SH 83.

Thompson Road extends approximately 1.5 miles north-to-south between Hodgen Road and Walker Road. Thompson Road is identified in the *El Paso County Road System – 2016* report as a two-lane, gravel, Local roadway. The posted speed limit along Thompson Road is 30 miles per hour (mph). Right-of-way width on Thompson Road is 60 feet, while the roadway width is 24 feet.

Black Forest Road is a two-lane, paved, rural Minor Arterial with a posted speed limit of 45 mph at its two-way stop-sign-controlled (TWSC) intersection with Walker Road. No auxiliary turn lanes currently exist at Black Forest Road/Walker Road. Black Forest Road extends north from Woodmen Road to County Line Road.

EXISTING AND BASELINE TRAFFIC VOLUMES

Existing Traffic Volumes


Vehicular peak-period traffic counts were conducted on Walker Road in the vicinity of the site. Raw count data is attached. Figure 3 shows these volumes, as well as estimates of the daily traffic volumes on Walker Road adjacent to the site.

Short-Term Baseline Traffic Volumes

The COVID-19 pandemic may still be affecting the study-area traffic volumes. LSC incorporated recent traffic data and estimated “typical” current daily and design-hour volumes. Major-street through volumes on Walker Road were adjusted (increased) to align more closely with recently-recorded historical volumes from previously-conducted LSC traffic studies. Figure 4 shows estimated “short-term baseline” traffic volumes on the study-area streets and at the study-area intersections (short-term peak-hour turning-movement volumes).

Number: 1 Author: lpackman Subject: Callout Date: 8/15/2022 08:46:25

[What is the posted speed limit?](#)

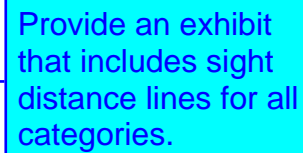
 Author: jchodsdon Subject: Sticky Note Date: 9/26/2022 11:52:59

LSC Response: Added as requested. The posted limit is 45 mph.

SIGHT DISTANCE

El Paso County Requirements

1
Provide an exhibit that includes sight distance lines for all categories.



The proposed access point (a planned public roadway intersection) must meet *Engineering Criteria Manual* standards for sight distance. The site-access point is anticipated to be a full-movement, stop-sign-controlled intersection with Walker Road. All sight-distance field measurements utilized a height of 3.5 feet for driver's eye height and for vehicles approaching from the east or west.

Stopping Sight Distance at Grade

Based on spot measurements taken during field observations, Walker Road features several consecutive hills approaching the site with grades of approximately 6 percent. The stopping distance at grade for the proposed site-access driveway would exceed the required 474 feet approaching the site access from both directions along Walker Road (per Table 2-18 of the County's *Engineering Criteria Manual*). Field measurements recorded 844 feet of sight distance looking to the east and 562 feet looking to the west from the proposed site-access location.

Intersection Sight Distance

With a 45-mph posted speed limit (assumed 50-mph design speed), the minimum required entering/intersection sight distance for both approaches at the proposed site access location is 555 feet for passenger vehicles (per Table 2-21 of the County's *Engineering Criteria Manual*). Sight distances for both approaches at the proposed site-access location to Walker Road meet the required 555-foot requirement. Field measurements recorded 844 feet of sight distance looking to the east and 562 feet looking to the west from the proposed site-access location.

TRIP GENERATION

Estimates of the existing and projected vehicle trips to be generated by the site have been made using nationally-published average trip-generation rates for land use code "210 – Single-Family (Detached) Housing" in *Trip Generation, 11th Edition, 2021* by the Institute of Transportation Engineers (ITE).

Table 1 below presents a summary of the estimated site trip generation. A detailed trip-generation estimate for the development, including ITE rates for the proposed land uses, is presented in Table 3 (attached).

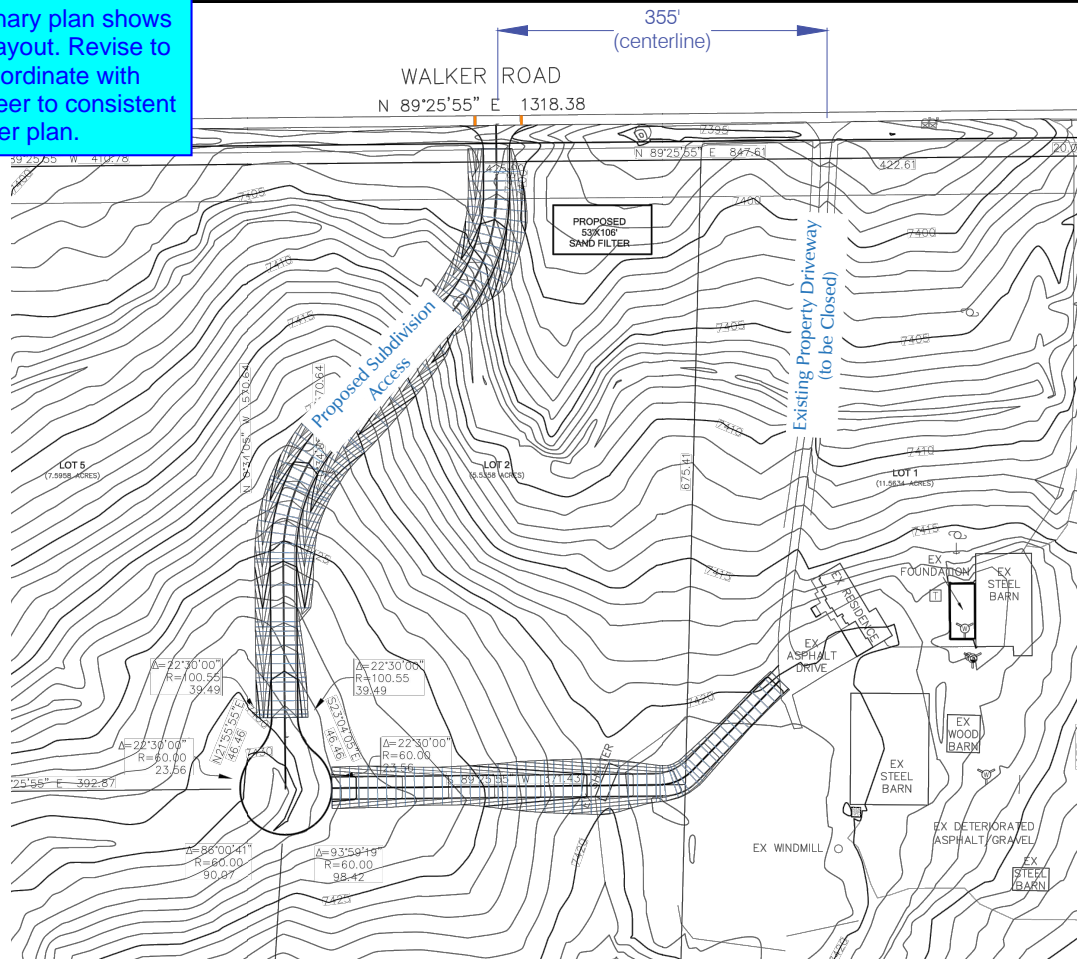
Number: 1 Author: lpackman Subject: Callout Date: 8/15/2022 08:27:30

Provide an exhibit that includes sight distance lines for all categories.

Author: jchodsdon Subject: Sticky Note Date: 9/26/2022 11:34:37

LSC Response: Included as requested.

1 The preliminary plan shows a different layout. Revise to match or coordinate with other engineer to consistent with the other plan.



Not to scale



Figure 2
Site Plan

6665 Walker Rd (LSC #S214800)

☰ Number: 1 Author: lpackman Subject: Text Box Date: 8/15/2022 13:05:49

The preliminary plan shows a different layout. Revise to match or coordinate with other engineer to consistent with the other plan.

👉 Author: jchodsdon Subject: Sticky Note Date: 9/26/2022 11:35:34

LSC Response: The traffic memo has been revised to match the current preliminary plan.