

Appendix I

VMT Screening and Trip Generation



March 21, 2024

Anwar Wagdy
Engineering Department
City of Victorville
14343 Civic Dr
Victorville, CA 92392

**RE: *Trip Generation and Vehicle Miles Traveled (VMT) Memorandum for the
Proposed AutoZone Project in the City of Victorville***

Dear Mr. Wagdy:

Kimley-Horn and Associates, Inc. is submitting this Trip Generation and Vehicle Miles Traveled (VMT) Memorandum to the City of Victorville for the proposed AutoZone project in the City of Victorville. The proposed trip generation and VMT screening for the project is presented below.

PROJECT DESCRIPTION

The project site is located approximately 500 feet west of the intersection of El Evado Road and Mojave Drive in the City of Victorville. The site is currently vacant land. The applicant proposes to develop an approximately 7,380 square-foot (SF) AutoZone automobile parts retail store building. A copy of the project site plan is provided on **Attachment A**.

TRIP GENERATION ESTIMATES

Trip generation estimates for the proposed use are based on the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition) average rates for Automobile Parts Sales (ITE Land Use 843). Pass-by reduction factors were applied based on the ITE Trip Generation Manual (11th Edition).

The trip generation rates and the resulting trip generation estimates for the proposed AutoZone project are summarized on **Attachment B**. The proposed project is estimated to generate 403 daily trips with 18 trips (10 inbound and 8 outbound) in the morning peak hour and 36 trips (17 inbound and 19 outbound) in the evening peak hour. After applying pass-by reduction factors, the proposed project would generate 316 net new trips on a daily basis with 18 net new trips (10 inbound and 8 outbound) in the morning peak hour and 21 net new trips (10 inbound and 11 outbound) in the evening peak hour.

JURISDICTIONAL REQUIREMENTS

Based on the San Bernardino County *Transportation Impact Study Guidelines* (July 2019), a traffic analysis shall be required “if a project generates 100 or more trips without consideration of pass-by trips during any peak hour.”

Based on the trip generation analysis noted in the section above, the proposed project would generate 18 trips in the AM peak hour and 36 trips in the PM peak hour, without applying pass-by reduction factors. Therefore, a Level of Service (LOS) analysis is not required for the proposed project.

CEQA VEHICLE MILES TRAVELED (VMT) SCREENING

Senate Bill 743 (SB 743) was approved by California legislature in September 2013. SB 743 requires changes to California Environmental Quality Act (CEQA), specifically directing the Governor’s Office of Planning and Research (OPR) to develop alternative metrics to the use of vehicular “Level of Service” (LOS) for evaluating transportation projects. OPR has prepared a technical advisory (“OPR Technical Advisory”) for evaluating transportation impacts in CEQA and has recommended that Vehicle Miles Traveled (VMT) replace LOS as the primary measure of transportation impacts. The Natural Resources Agency has adopted updates to CEQA Guidelines to incorporate SB 743 that requires VMT for the purposes of determining a significant transportation impact under CEQA.

The City of Victorville *Vehicle Miles Traveled (VMT) Analysis Guidelines* (June 2020) provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed level analysis. Screening thresholds are broken down into the following two criteria:

1. Daily Vehicle Trips Screening
2. Land Use Type Screening

Land development projects that meet one or more of the above screening thresholds may be presumed to create a less-than-significant impact on transportation and circulation. The screening thresholds were reviewed and evaluated for this project.

Daily Vehicle Trips Screening

A project generating 1,285 or less net new weekday daily trips is presumed to have a less-than-significant impact based on the City's VMT guidelines. As mentioned previously, the project is estimated to generate 316 net new daily trips. Therefore, the project would screen out under Daily Vehicle Trips.

The Daily Vehicle Trips Screening threshold is met.

Land Use Type Screening

A project would be considered to have a less-than-significant transportation impact if the project falls under any of the following uses noted below:

- Single Family or Multifamily Residential – 136 dwelling units or less
- Office – 227,000 square feet
- Retail – 122,000 square feet
- Warehousing – 829,000 square feet
- Light Industrial – 296,000 square feet
- K-12 Public School
- Daycare/Childcare/Pre-K
- Affordable Housing
- Student Housing
- Community Institutions, Social Services, and Public Buildings

The project includes a 7,380 SF automobile parts retail store building. Based on the City's VMT guidelines, a retail use less than 122,000 SF is presumed to have a less-than-significant VMT impact. Therefore, the project would screen out under Land Use Type.

The Land Use Type Screening threshold is met.

FINDINGS AND CONCLUSIONS

Based on review of the San Bernardino County *Transportation Impact Study Guidelines* (July 2019), the project is expected to generate less than 100 peak hour trips, without applying pass-by reduction factors. Therefore, a LOS analysis is not required.

Based on review of the City of Victorville *Vehicle Miles Traveled (VMT) Analysis Guidelines* (June 2020), the proposed project would meet the Daily Vehicle Trips Screening threshold and Land Use Type Screening threshold, which would screen out of VMT. Therefore, the City may presume the proposed project to have a less-than-significant VMT impact, and no further VMT analysis is required.

Please contact me if you have any questions or comments.

Sincerely,

KIMLEY-HORN AND ASSOCIATES, INC.



Trevor Briggs, P.E.
Project Engineer

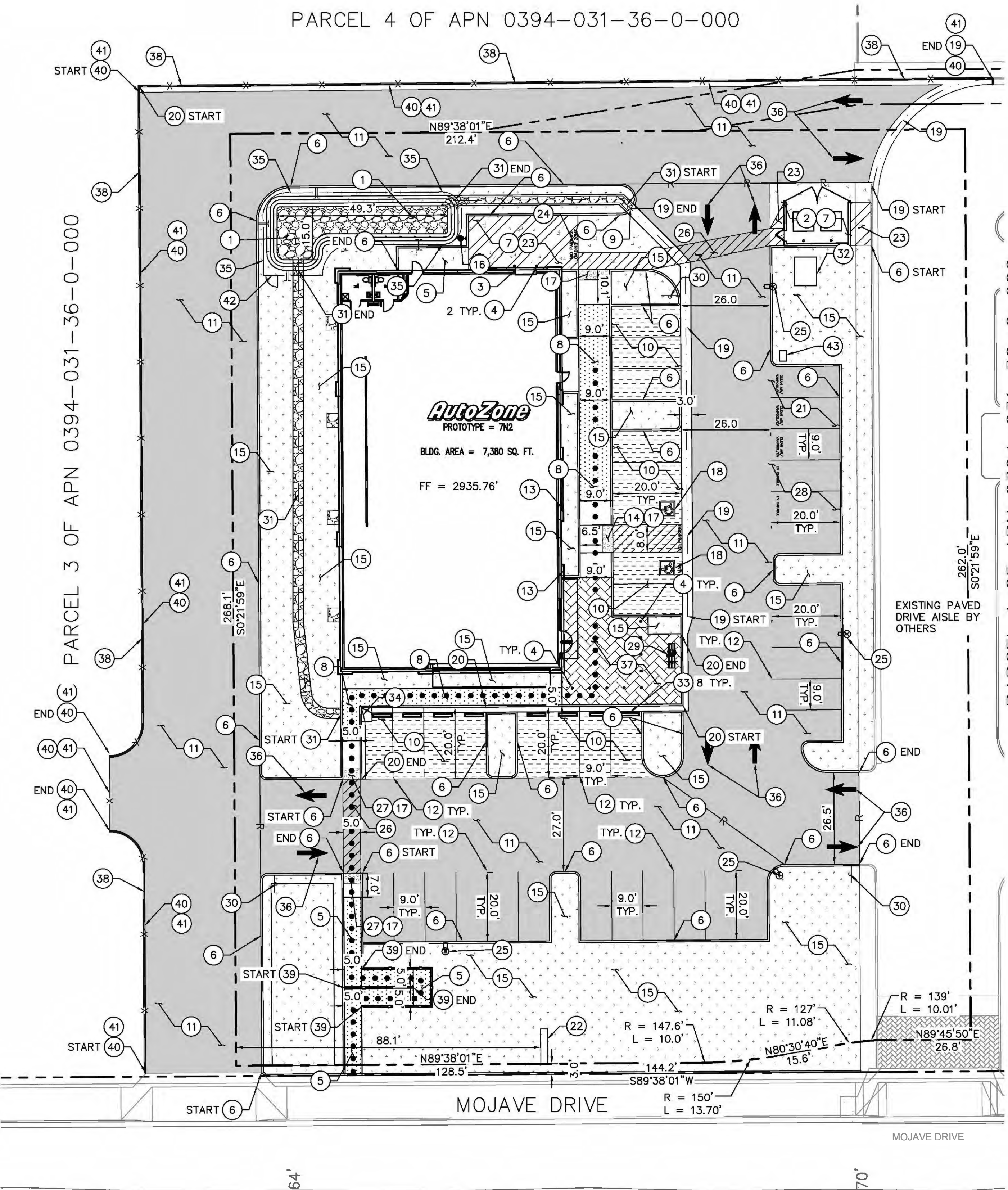
APPROVED:

By:

Anwar Wagdy
Engineering Department
City of Victorville

ATTACHMENT A

PROJECT SITE PLAN



LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF VICTORVILLE, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

PARCEL 1 OF PARCEL MAP NO. 18813, IN THE CITY OF VICTORVILLE, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER PLAT RECORDED IN BOOK 225 OF PARCEL MAPS, PAGE 37-39, RECORD OF SAID COUNTY.

FOR CONVEYANCING PURPOSES ONLY: APN 0394-031-36-0-000

THE PROPERTY DESCRIBED AND DEPICTED HEREIN IS THE SAME AS INSURED IN FIRST AMERICAN TITLE INSURANCE COMPANY COMMITMENT NUMBER NCS-991936-NAS, WITH A COMMITMENT DATE OF NOVEMBER 21, 2019 AT 8:00 A.M.

BASIS OF BEARINGS

THE CENTERLINE OF MOJAVE ROAD BEING N89°38'01"E. AS SHOWN ON PARCEL MAP NO. 17433, P.M.B 220/51-55.

CONSTRUCTION NOTES:

- 1 STORMWATER DETENTION BASIN. SEE GRADING AND DRAINAGE PLAN FOR MORE INFORMATION.
- 2 TRASH ENCLOSURE - SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- 3 SERVICE DOOR PLAN - SEE DETAIL 6 / SHEET 8.
- 4 BOLLARD PLAN - SEE DETAIL 22 / SHEET 8.
- 5 CONCRETE SIDEWALK - SEE DETAIL 2 & DETAIL 14 / SHEET 8 FOR SIDEWALK AROUND BUILDING. MAXIMUM SPACING FOR CONTROL JOINTS IS 15' O.C. EACH WAY.
- 6 CONCRETE CURB. HEIGHT PER PLAN - SEE DETAIL 1 / SHEET 8.
- 7 HEAVY DUTY CONCRETE - SEE DETAIL 2 / SHEET 8. CONCRETE JOINTS - SEE DETAIL 9 & DETAIL 10 / SHEET 8. SPACING FOR CONTROL JOINTS IS 15' O.C. EACH WAY.
- 8 CONCRETE HARDSCAPE - SEE DETAIL 2 & 13 / SHEET 8 FOR SIDEWALK AROUND BUILDING. MAXIMUM SPACING FOR CONTROL JOINTS IS 15' O.C. EACH WAY.
- 9 2.0' CONCRETE CURB CUT - SEE DETAIL 17 / SHEET 8.
- 10 LIGHT DUTY CONCRETE - SEE DETAIL 2 / SHEET 8. CONCRETE JOINTS - SEE DETAIL 9 & DETAIL 10 / SHEET 8. SPACING FOR CONTROL JOINTS IS 15' O.C. EACH WAY.
- 11 ASPHALT PAVING - SEE DETAIL 3 / SHEET 8.
- 12 4" WIDE PARKING STRIPE PAINTED WHITE (TYP.).
- 13 WALL MOUNTED ACCESSIBLE PARKING SIGN - SEE MODIFIED VERSION OF DETAIL 5 / SHEET 8. GC TO PROVIDE ONE VAN ACCESSIBLE STALL, LOCATION SHOWN ON PLANS.
- 14 PARALLEL ACCESSIBLE RAMP - SEE DETAIL 15 / SHEET 8 - MAXIMUM LONGITUDINAL SLOPE 1:12 (8.33%), MAXIMUM CROSS SLOPE 1:50 (2.00%).
- 15 NEW LANDSCAPE AREA - SEE LANDSCAPE PLANS FOR MORE INFORMATION.
- 16 FREEZELESS YARD HYDRANT - SEE MEP PLANS FOR ADDITIONAL INFORMATION.
- 17 CAST-IN-PLACE TRUNCATED DOMES - SEE DETAIL 12 / SHEET 8.
- 18 PAINTED ACCESSIBLE PARKING STALL - SEE DETAIL 4 / SHEET 8.
- 19 VALLEY GUTTER - SEE DETAIL 18 / SHEET 8.
- 20 CONCRETE CURB AND GUTTER. HEIGHT PER PLAN - SEE DETAIL 20 / SHEET 8.
- 21 PARKING STALLS DESIGNATED FOR COMBINATION OF LOW EMITTING, FUEL-EFFICIENCY AND CARPOOL/VAN POOL VEHICLES. PAINT, IN PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE LOWER EDGE OF THE LAST WORD ALIGNS WITH THE END OF THE STALL STRIPING: CLEAN AIR/VANPOOL/EV.
- 22 PROPOSED PYLON SIGN. SEE ARCHITECTURAL PLANS FOR MORE DETAILS.
- 23 STRIPE WHITE 4" STRIPES, 60 DEGREE, SPACED AT 36" O.C.
- 24 PAINT, IN PAINT USED FOR STALL STRIPING, THE FOLLOWING CHARACTERS SUCH THAT THE PAINT STRIPING IS CENTERED WITHIN THE STRIPED LOADING ZONE: NO PARKING LOADING ZONE.
- 25 SITE LIGHT, SHOWN FOR REFERENCE ONLY. REFER TO MEP PLANS FOR MORE INFORMATION.
- 26 STRIPE ACCESSIBLE PATH-OF-TRAVEL - SEE DETAIL 16 / SHEET 8.
- 27 IN-LINE ACCESSIBLE RAMP - SEE DETAIL 15 / SHEET 8 MAXIMUM SLOPE 1:12 (8.33%), CROSS SLOPE 1:50 (2.00%).
- 28 PARKING STALLS DESIGNATED FOR COMBINATION OF EV CAPABLE VEHICLES. SHOWN FOR REFERENCE ONLY.
- 29 BIKE RACK - SEE DETAIL 7 / SHEET 8.
- 30 INSTALL UNAUTHORIZED VEHICLE ACCESS SIGN AND POST - SEE DETAIL 5 AND 19, SHEET 8.
- 31 PROPOSED VEGETATED SWALE - SEE DETAIL 21 / SHEET 8.
- 32 PROPOSED CONCRETE PAD FOR TRANSFORMER. REFER TO PURVEYOR PLANS FOR MORE INFORMATION.
- 33 INSTALL 6" WIDE WHEEL STOP - SEE DETAIL 8 / SHEET 8. TO BE INSTALLED 2' AWAY FROM CURB FACE.
- 34 PROPOSED PARKWAY DRAIN TO VEGETATED SWALE. REFER TO GRADING AND DRAINAGE PLAN SHEET 10 FOR MORE DETAIL.
- 35 PROPOSED 4' HIGH BLACK ANESISTOR ROD IRON FENCE. SUBMIT SHOP DRAWINGS TO CONSTRUCTION MANAGER FOR REVIEW PRIOR TO INSTALLATION.
- 36 PROPOSED DIRECTION STRIPING. STRIPING TO BE TWO COATS.
- 37 PROPOSED STAMPED CONCRETE WITH RUSTIC SLATE 12" X 12" PATTERN. CONCRETE HARDSCAPE - SEE DETAIL 2 & 13 / SHEET 8 FOR SIDEWALK AROUND BUILDING. MAXIMUM SPACING FOR CONTROL JOINTS IS 15' O.C. EACH WAY. CONTRACTOR TO APPLY STAMP PER STAMP MANUFACTURERS RECOMMENDATIONS.
- 38 PROPOSED 4' HIGH FENCE AT BACK OF AC DIKE.
- 39 PROPOSED HANDRAILS PER DETAIL 1, SHEET 9.
- 40 PROPOSED 4' HIGH @ 2' O.C. REFLECTIVE HEX TRAFFIC DELINEATION ON PROPOSED AC DIKE.
- 41 PROPOSED ASPHALT DIKE PAINTED TRAFFIC YELLOW PER DETAIL 3 ON SHEET 9.
- 42 PROPOSED 4' HIGH BLACK ANESISTOR ROD IRON GATE.
- 43 PROPOSED PULLBOX. SHOWN FOR REFERENCE ONLY. REFER TO UTILITY PURVEYOR PLANS FOR MORE INFORMATION.

LEGEND

- PROPERTY LINE
- FLOWLINE
- RIGHT-OF-WAY
- ACCESSIBLE ROUTE (LOCATION PURPOSES ONLY. DO NOT PAINT)
- PROPOSED 4' HIGH ANESISTOR ROD IRON FENCE.
- PROPOSED HANDRAILS
- ACCESSIBLE PARKING SPACE
- NUMBER OF PARKING SPACES
- ASPHALT PAVING SEE DETAIL 3 / SHEET 8
- CONCRETE SIDEWALK SEE DETAIL 2 AND 14 / SHEET 8
- LIGHT DUTY CONCRETE SEE DETAIL 2 / SHEET 8
- HEAVY DUTY CONCRETE SEE DETAIL 2 / SHEET 8
- LANDSCAPING SEE LANDSCAPE PLANS
- STAMPED RUSTIC COLOR CONCRETE.
- CLEAN STONE GRAVEL RIP RAP

ESTIMATED QUANTITIES

ITEM	QUANTITY	UNIT
1. SITE ITEMS		
STORM WATER DETENTION	967	SF
TRASH ENCLOSURE	1	EA
SERVICE DOOR	1	EA
BOLLARD	9	EA
CONCRETE SIDEWALK	454	SF
CONCRETE CURB	2500	LF
HEAVY DUTY CONCRETE	1493	SF
CONCRETE HARDSCAPE	875	SF
LIGHT DUTY CONCRETE	1603	SF
ASPHALT PAVING	13041	SF
STRIPING & SIGNAGE	1	LS
PARALLEL ACCESS RAMP	1	EA
LANDSCAPING	1	SF
YARD HYDRANT	1	EA
TRUNCATED DOMES	80	SF
VALLEY GUTTER	201	LF
CURB AND GUTTER	113	LF
IN-LINE ACCESSIBLE RAMP	1	EA
BIKE RACK	1	EA
SWALE	190	LF
WHEEL STOP	8	EA
4' HIGH FENCE	179	LF
SITE LIGHTING	8	EA

* THE QUANTITIES ARE FOR GRAPHICAL REPRESENTATION AND ARE NOT MEANT TO BE USED FOR BIDDING PURPOSES. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE ACTUAL QUANTITIES FOR BID.

Kimley»Horn

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WWW.KIMLEY-HORN.COM



CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, Ca. 92392 (760) 955-5158

NO.	REVISION	BY	DATE

FIELD BOOK NO. (S)

BENCH MARK:
CITY BENCHMARK:
#V-213; DESCRIPTION: "Mojave Dr. @ El Evado Rd., TC 2' West of SW BCR".
ELEVATION = 2937.86'
COV CONTROL #V-213

DESIGN BY: X.X
DRAWN BY: X.X
CHECKED BY: J.G.
DATE: 9/5/2023

SHEET NO.
7 OF 13
DRAWING No.
XX-00
PROJECT NO.
TBD

GRADING PLANS

SITE PLAN

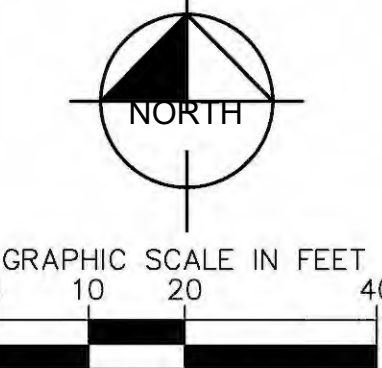
CITY CASE NO.

CITY OF VICTORVILLE
ENGINEERING DEPARTMENT
14343 Civic Drive, Victorville, CA 92392 (760) 955-5000

Approved By:

Brian W. Gengler, RCE C44730
City Engineer

DATE



SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"X36"



R.C.E. C44730
EXP. 03-31-24

ATTACHMENT B
SUMMARY OF PROJECT TRIP GENERATION
VICTORVILLE AUTOZONE

Land Use	ITE Code	Unit	Trip Generation Rates ¹						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Automobile Parts Sales	843	KSF	54.570	1.381	1.130	2.510	2.352	2.548	4.900
Land Use	Quantity	Unit	Trip Generation Estimates						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Automobile Parts Sales	7.38	KSF	403	10	8	18	17	19	36
<i>Pass-by Trips (21.5% Daily, 0% AM, 43% PM) ^{1,2}</i>			-87	0	0	0	-7	-8	-15
Net Trips			316	10	8	18	10	11	21
Total Project Trips			316	10	8	18	10	11	21

¹ Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition

² Note: The ITE Trip Generation Manual does not provide pass-by rates for daily trip generation. The daily pass-by percentage shown is the average between the AM and PM pass-by percentages.