

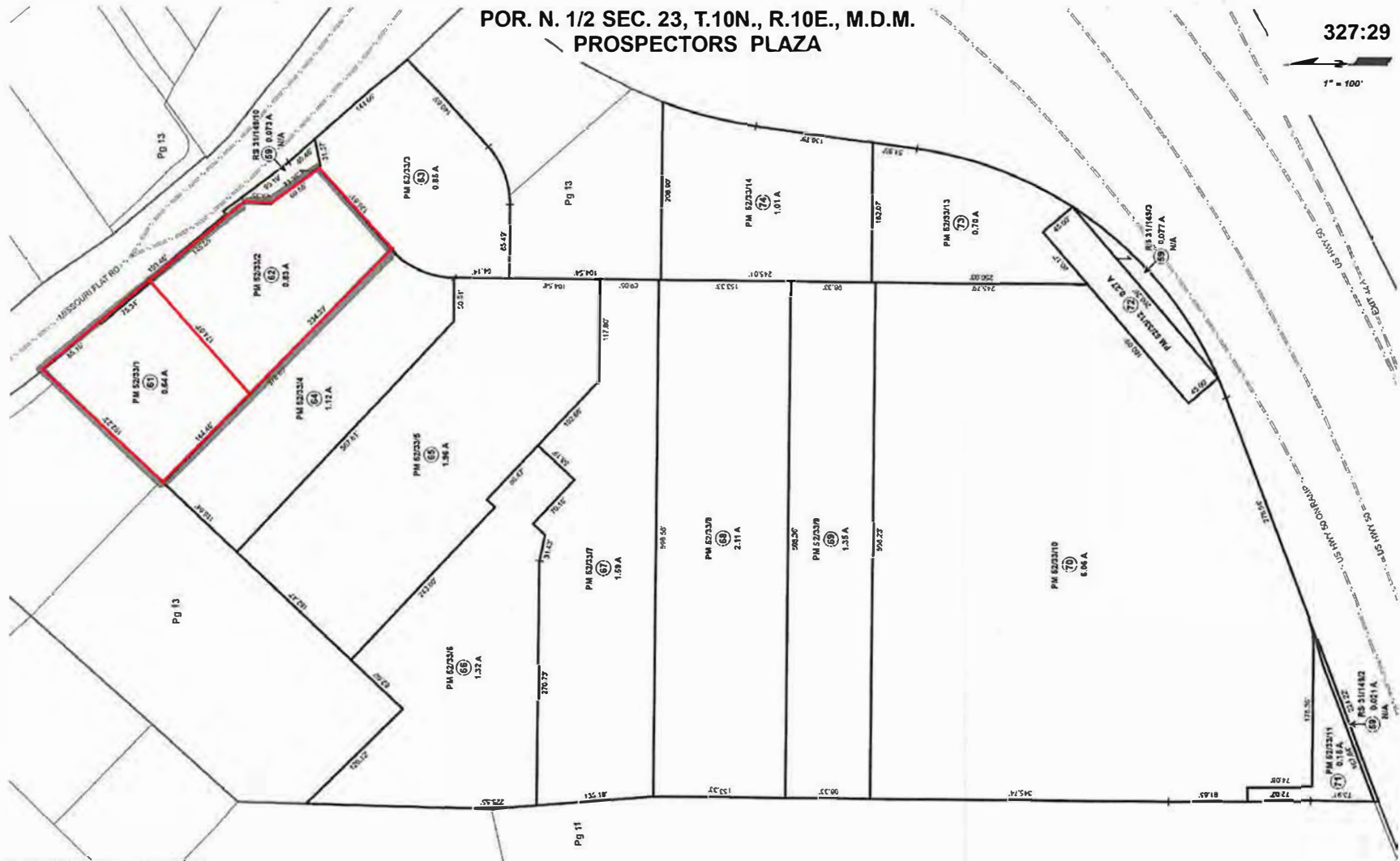
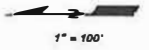
N



CUP22-0008/PD-R22-0002 Exhibit A: Location/Vicinity Map

POR. N. 1/2 SEC. 23, T.10N., R.10E., M.D.M.
PROSPECTORS PLAZA

327:29



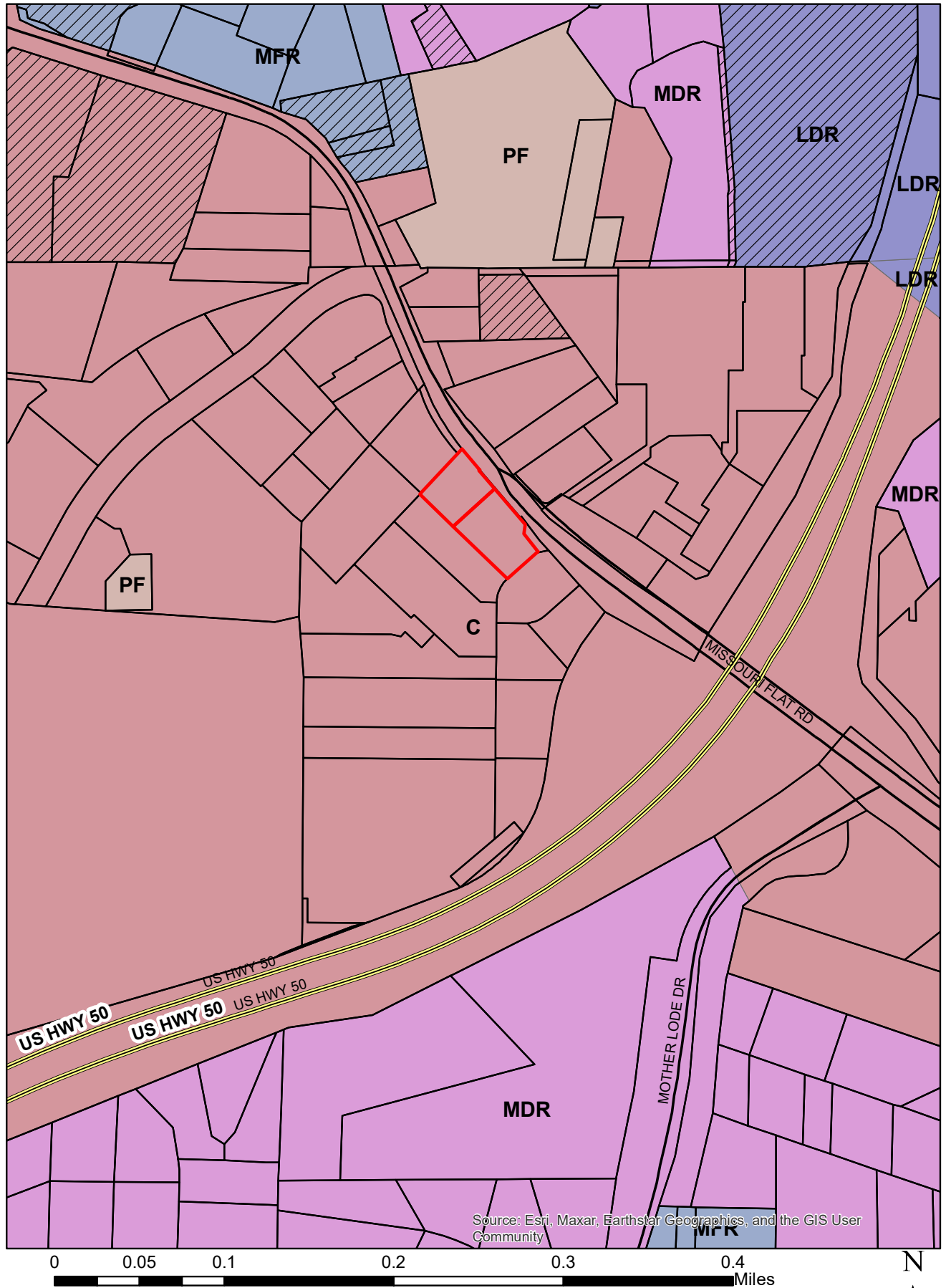
THIS MAP IS NOT A SURVEY. It is prepared by the El Dorado Co. Assessor's office for assessment purposes only. Area calculations and characteristics are not guaranteed. Users should verify facts such as dimensions and acreage. Map dated 5/25/22.

Acreages Are Estimates

Adjacent Map Pages Shown in Grey Tint
Assessor's Block Numbers Shown in Ellipses
Assessor's Parcel Numbers Shown in Circles

Rev. December 19, 2020

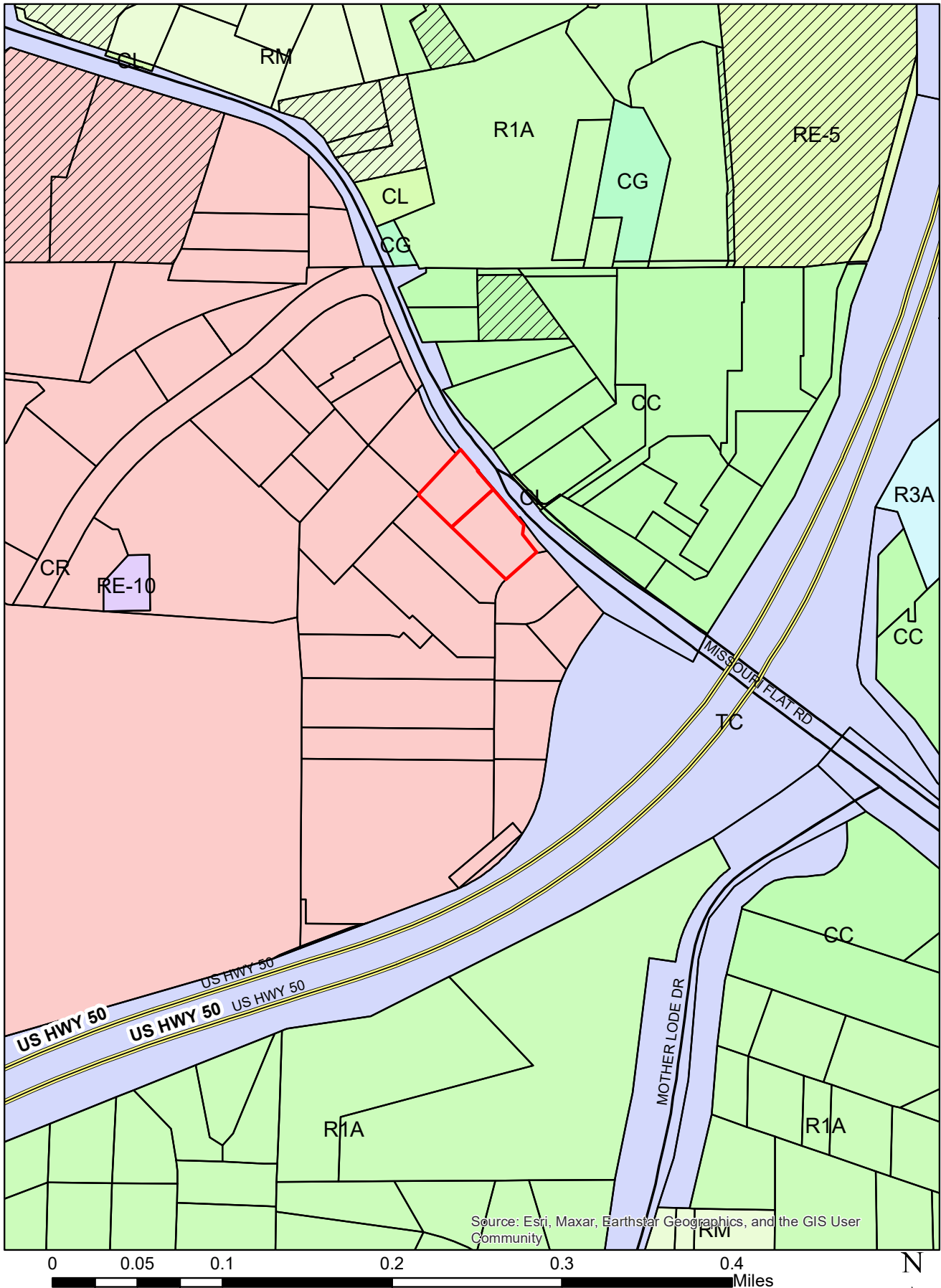
Assessor's Map Bk. 327, Pg. 29
County of El Dorado, CA



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

CUP22-0008/PD-R22-0002 Exhibit C: General Plan Land Use Map





CUP22-0008/PD-R22-0002 Exhibit D: Zoning Map



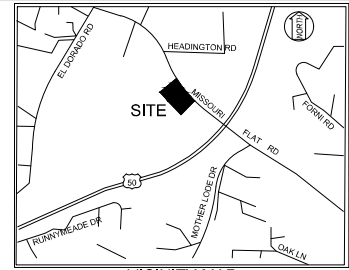
GENERAL ABBREVIATIONS / LEGEND

BFP	BACKFLOW PREVENTER	○ _{WM}	MONITORING WELL
CB	CATCH BASIN	○	POWER POLE
CL	CENTERLINE	△	IRON PIPE
DCV	DETECTOR CHECK VALVE	△	RAILROAD SPIKE
DE	DIRT ELEVATION	●	STANDARD CITY MONUMENT
DMV	DRIVEWAY	○	SURVEY MONUMENT
E	ELECTRICAL LINE	○	STORM DRAIN MANHOLE
EB	ELECTRIC BOX	○	STREET SIGN
EP	EDGE OF PAVEMENT	○	STREET LIGHT
EX	EXISTING	○	WATER VALVE
FDC	FIRE DEPARTMENT CONNECTION	○	TREE WITH SIZE
FF	FINISHED FLOOR	○	TREE REMOVAL
FL	FLOWLINE	○	TRANSFORMER
FS	FINISHED SURFACE/FIRE SERVICES	○	BARBED WIRE FENCE
G	GAS PIPE	○	CHAIN-LINKED FENCE
GB	GRADE BREAK	○	WOOD FENCE
GM	GAS METER	○	SAWCUT LINE
GP	GUARD POST	○	RAIL
GR	GRATE	○	
HCR	HANDICAP RAMP	○	
INV	INVERT	○	
JP	JOINT POLE	○	
JT	JOINT TRENCH	○	
LF	LINEAL FEET	○	
MW	MONITORING WELL	○	
OHE	OVERHEAD ELECTRIC	○	
OHT	OVERHEAD TELEPHONE	○	
PAE	PUBLIC ACCESS EASEMENT	○	
PB	PULL BOX	○	
PCC	PORTLAND CEMENT CONCRETE	○	
PGAE	PACIFIC GAS & ELECTRIC	○	
PIV	PIST INDICATOR VALVE	○	
PUE	PUBLIC UTILITY EASEMENT	○	
PVC	POLYVINYL CHLORIDE PIPE	○	
R	RIDGE LINE	○	
ROP	REINFORCED CONCRETE PIPE	○	
RPP	REDUCED PRESSURE PRINCIPLE BACKFLOW	○	
SD	STORM DRAIN PIPE	○	
SDCB	STORM DRAIN CATCH BASIN	○	
SDCO	STORM DRAIN CLEANOUT	○	
SDMH	STORM DRAIN MANHOLE	○	
SS	SANITARY SEWER PIPE	○	
SSCO	SANITARY SEWER CLEANOUT	○	
SSMH	SANITARY SEWER MANHOLE	○	
SW	SIDEWALK	○	
T	TELEPHONE LINE	○	
TC	TOP OF CURB	○	
TH	TOP OF CONCRETE HEADER	○	
TORW	TOP OF RETAINING WALL	○	
TP	TELEPHONE POLE	○	
TS	TRAFFIC SIGNAL	○	
TSB	TRAFFIC SIGNAL BOX	○	
VG	VALLEY GUTTER	○	
W	WATER PIPE	○	
WM	WATER METER	○	
COL	COLUMN	○	

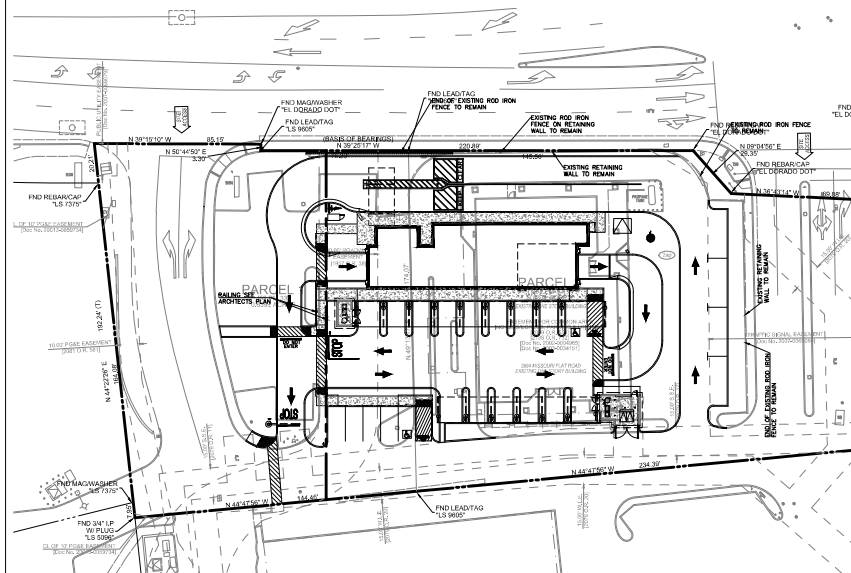
6"W	EXISTING WATER LINE	○	PROPOSED GAS VALVE
2"G	EXISTING GAS LINE	○	OVERLAND RELEASE
8"SS	EXISTING SANITARY SEWER LINE	○	CONTROLLER CABINET
SD	EXISTING STORM DRAIN LINE	○	FIRE HYDRANT
E	EXISTING ELECTRICAL LINE	○	GUY POLE
TEL	EXISTING TELEPHONE LINE	○	HANDICAP SPACE
6"FS	PROPOSED FIRE SERVICE	○	PROPOSED STORM DRAIN CATCH BASIN
W	PROPOSED WATER LINE	○	PROPOSED WATER METER / GAS METER
2"G	PROPOSED GAS LINE	○	PROPOSED SANITARY SEWER CLEANOUT
S	PROPOSED SANITARY SEWER LINE	○	PROPOSED STORM DRAIN CLEANOUT
SD	PROPOSED STORM DRAIN LINE	○	PROPOSED FIRE HYDRANT
E	PROPOSED ELECTRICAL LINE	○	PROPOSED SANITARY SEWER MANHOLE/STORM DRAIN MANHOLE
TEL	PROPOSED TELEPHONE LINE	○	
JUT	PROPOSED JOINT UTILITY TRENCH	○	
R	RIDGE LINE	○	
X	PROPOSED FENCE	○	
---	PROPERTY LINE	○	
---	MATCH LINE	○	
---	LIMIT OF DEMOLITION	○	
GB	GRADE BREAK	○	
307	PROPOSED CONTOUR	○	

QUICK QUACK CARWASH #26-630

3970 MISSOURI FLAT ROAD
 APN # 327-290-063-000
 PLACERVILLE, CA



SITE KEY MAP 1"=30'



SHEET INDEX

- CIVIL
 C-1.1 COVER SHEET
 C-2.1 HORIZONTAL CONTROL PLAN
 C-3.1 GRADING PLAN
 C-4.1 UTILITY PLAN

PROJECT CONTACTS

<p>DEVELOPER QUICK QUACK CARWASH 1380 LEAD HILL BLVD #260 ROSEVILLE, CA 95661 PHONE: (916) 472-8689 CAMERON DRENNAN E-MAIL: CDRENNAN@QONDRIVEDIRTY.COM</p> <p>CIVIL ENGINEER ams associates, inc. 801 YONACIO VALLEY ROAD, SUITE 220 WALNUT CREEK, CA 94596 PHONE: (925) 943-2777 FAX: (925) 943-2778 EMAIL: ROBERT@AMSASSOCIATES.US BOB BURDUE</p> <p>ARCHITECT LA DESIGN GROUP 21671 GATEWAY CENTER DRIVE, SUITE 213 DIAMOND BAR, CA 91765 CONTACT: SAEDI SHANTYIAI PHONE: 909 860-1010 EMAIL: SSHANTYIAI@LADDESIGNGROUP.NET</p> <p>GEOTECH KRAZAN AND ASSOCIATES, INC 4517 AUBURN BLVD SACRAMENTO, CA 95841 PHONE: (916)584-2200 EMAIL: DAN@KRAZAN.COM</p>	<p>SEWER/WATER CITY OF PLACERVILLE PUBLIC WORKS 549 MAIN STREET ROSEVILLE, CA 95678 DIRECTOR OF PUBLIC WORKS CONTACT: NICK STONE PHONE: (530) 642-5232 EMAIL: NSTONE@CITYOFPLACERVILLE.ORG</p> <p>ENGINEERING CITY OF PLACERVILLE ENGINEERING DEPARTMENT 3101 CENTER STREET - THIRD FLOOR PLACERVILLE, CA 95667 CITY ENGINEER CONTACT: REBECCA NEVES PHONE: (530) 642-5250 EMAIL: RNEVES@CITYOFPLACERVILLE.ORG</p>	<p>FIRE DEPARTMENT EL DORADO COUNTY FIRE PROTECTION DISTRICT 4040 CARLSON ROAD CAMINO, CA 95709 CONTACT: PHONE: (530) 644-9630 EMAIL:</p>
---	--	--

PROJECT DATA

FLOOD ZONE NOTE:
 THE SUBJECT PROPERTY IS SHOWN ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NUMBER 09000 0775 E, DATED SEPTEMBER 26, 2008, AS BEING LOCATED IN FLOOD ZONE "X". AREAS OF DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

INFORMATION WAS OBTAINED FROM THE FEMA WEBSITE (WWW.FEMA.GOV) ON AUGUST 5, 2021.

BASIS OF BEARINGS:
 THE BEARING OF NORTH 39°25'17" WEST TAKEN ON THE WESTERLY RIGHT-OF-WAY LINE OF MISSOURI FLAT ROAD AS SHOWN ON THAT CERTAIN PARCEL MAP FILED FOR RECORD ON DECEMBER 19, 2019 IN BOOK 52 OF PARCEL MAPS AT PAGE 33, EL DORADO COUNTY RECORDS WAS TAKEN AS THE BASIS OF ALL BEARINGS SHOWN HEREON.

BENCHMARK:
 NGS MONUMENT "HPGN D CA 03 DM", FOUND BRASS DISK IN MONUMENT WELL LOCATED A PARKING STALL AT THE ENTRANCE TO THE PARK 'N RIDE LOCATED AT THE INTERSECTION OF MISSOURI FLAT ROAD AND MOTHER LODE DRIVE.
 ELEVATION: 1779.0 FEET (GPS OBSERVED) (DATUM) NAVD 1988

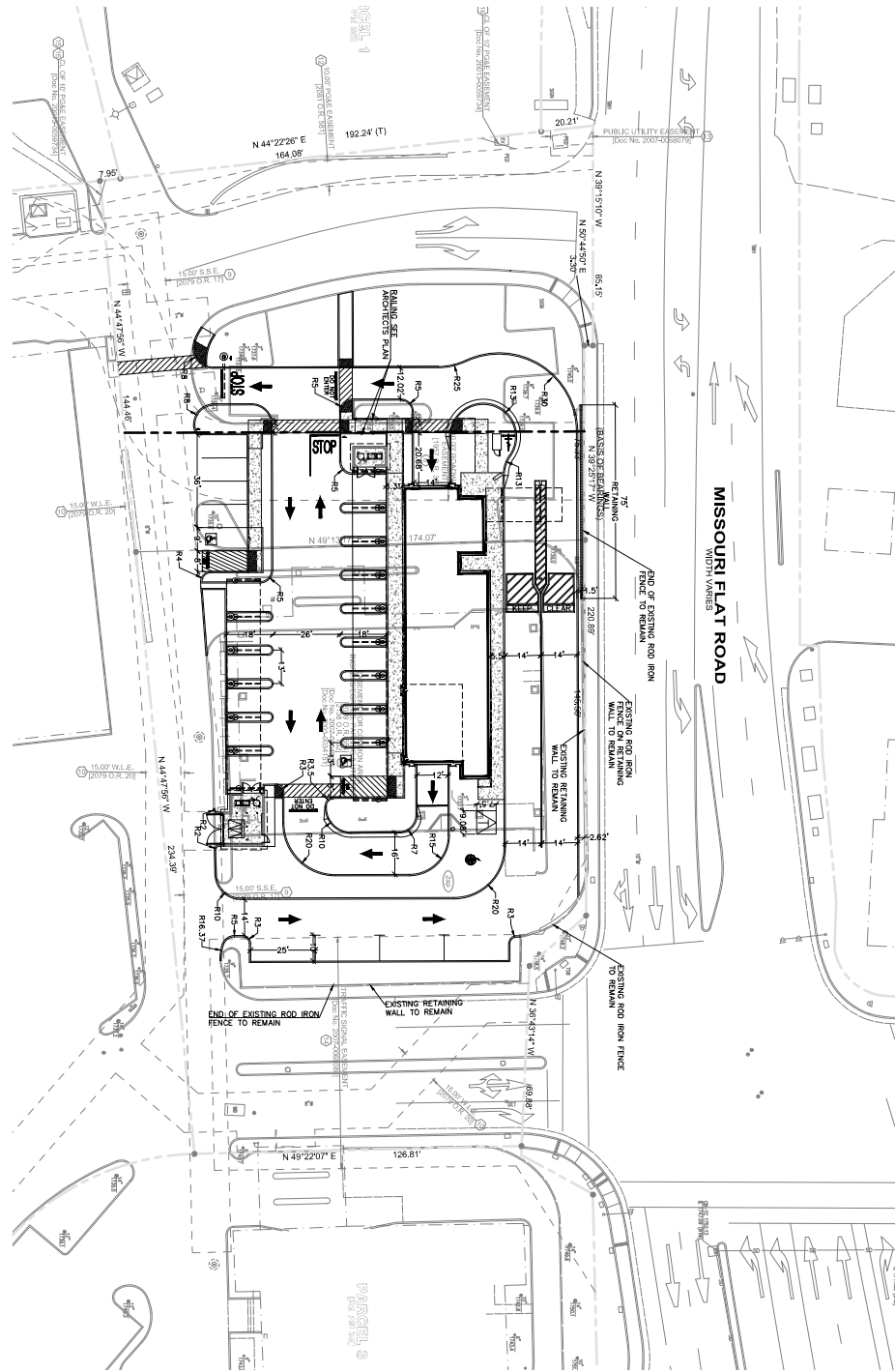


NOT APPROVED FOR PRIVATE UNDERGROUND FIRE SERVICE INSTALLATION. A SEPARATE PLAN SUBMITTAL IS REQUIRED FROM THE INSTALLING CONTRACTOR. SEE THE SACRAMENTO METROPOLITAN FIRE DISTRICT NOTES.

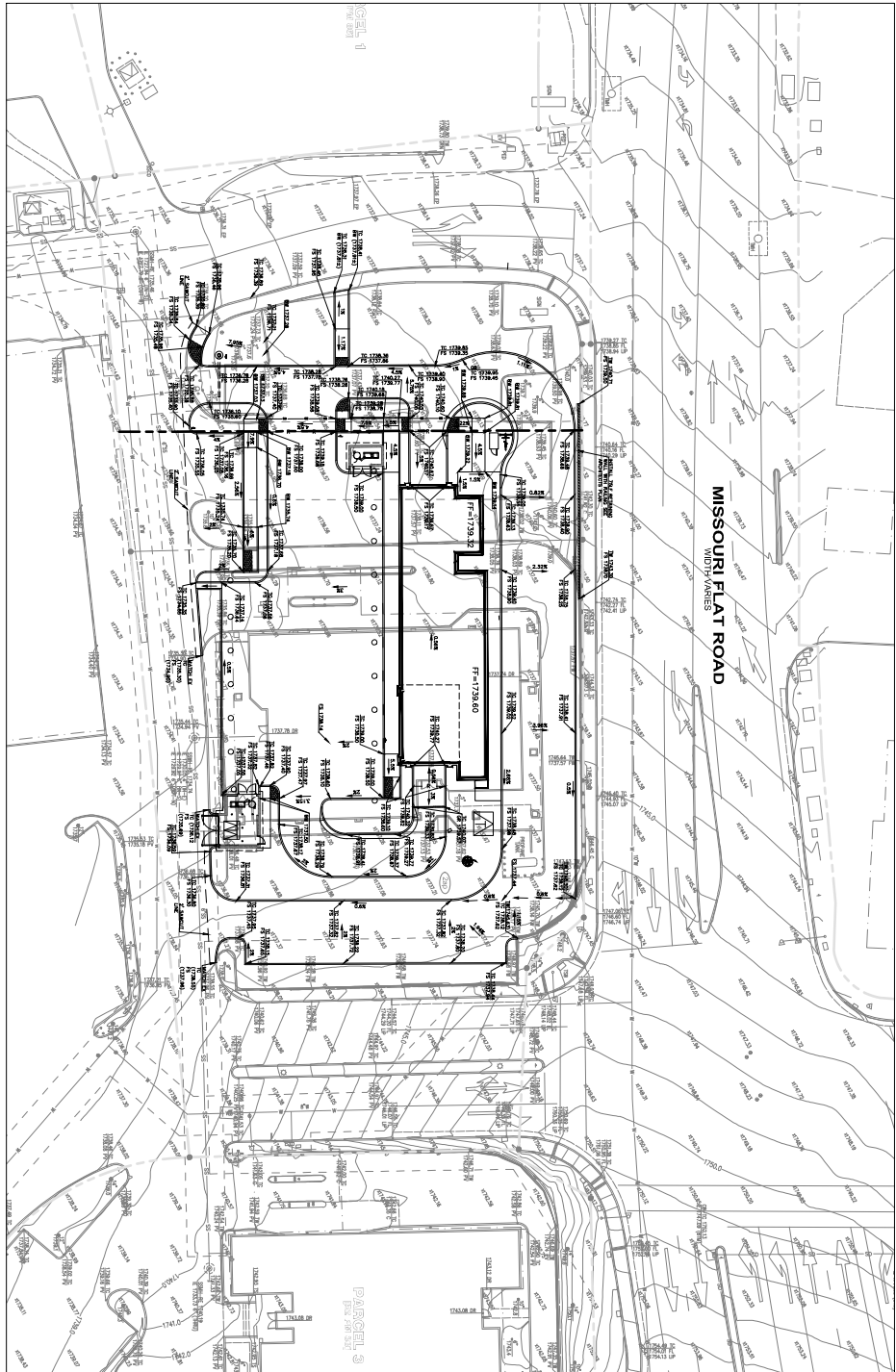
DATE:	07-14-22	REV #	BY	DESCRIPTION
SCALE:				
DRAWN:				
CHECKED:				
PROJECT:				
FILE PATH:				

PROJECT:	QUICK QUACK CARWASH #26-630
LOCATION:	3970 MISSOURI FLAT ROAD EL DORADO PLACERVILLE CALIFORNIA
DATE:	07-14-22
SCALE:	
DRAWN:	
CHECKED:	
PROJECT:	
FILE PATH:	

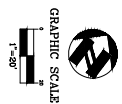
CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



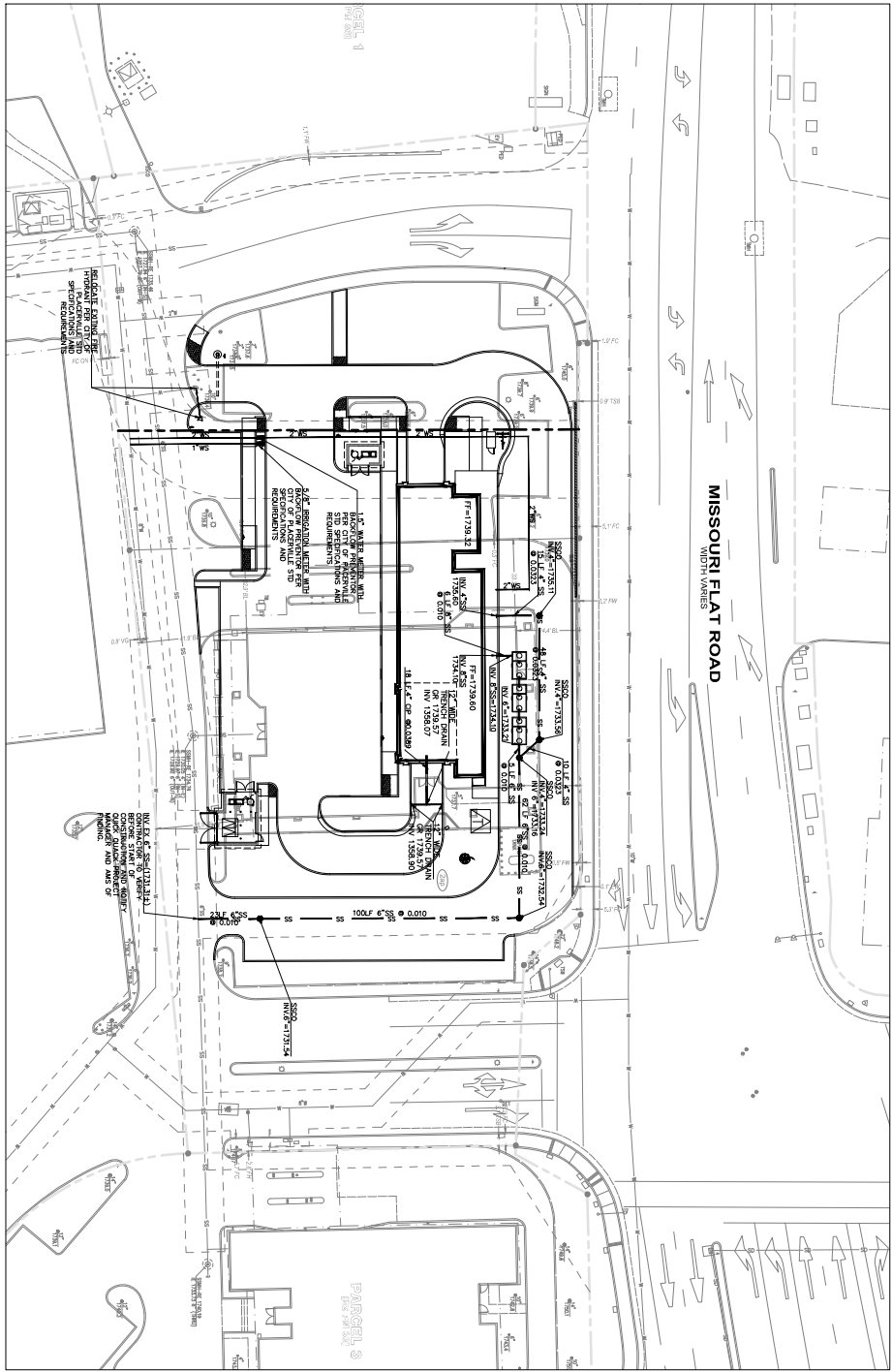
SHEET C-2.1 OF PROJECT 20-2514-1	HORIZONTAL CONTROL PLAN QUICK QUACK CARWASH #26-630 3970 MISSOURI FLAT ROAD PLACERVILLE EL DORADO CALIFORNIA	 801 VERNADO VALLEY ROAD SUITE 220 WALNUT CREEK, CA 94596 925-943-2777 FAX 925-943-2778 associates, inc. PLANNING ENGINEERING SURVEYING	DATE: 07-14-22	REV #	BY	DATE	DESCRIPTION
			SCALE: 1" = 20'	DESIGNED:	DRAWN:	CHECKED: RB	PROJ. MGR:



NOTE:
EXISTING SITE GRADING SHEET FLOWS TO THE SHOPPING CENTER STORM DRAINAGE SYSTEM TO THE SOUTH, THE PROPOSED QUICK QUACK CAR WASH AND SHOPPING CENTER ARE TO BE CONNECTED TO THE EXISTING SHOPPING CENTER DRAINAGE SYSTEM.



SHEET C-3.1 OF PROJECT 20-2514-1	GRADING PLAN QUICK QUACK CARWASH #26-630 MISSOURI FLAT RD & FORNIA DRIVE PLACERVILLE EL DORADO CALIFORNIA	801 YONACIO VALLEY ROAD SUITE 220 WALNUT CREEK, CA 94596 925-943-2777 FAX 925-943-2778 associates, inc. PLANNING ENGINEERING SURVEYING	DATE: 07-14-22	REV #	BY	DATE	DESCRIPTION
			SCALE: 1" = 20'	DESIGNED: [initials]	DRAWN: [initials]	CHECKED: RB	PROJ. MGR:



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



SHEET C-4.1 OF PROJECT 20-2514-1	UTILITY PLAN QUICK QUACK CARWASH #26-630 MISSOURI FLAT RD & FORNIA DRIVE PLACERVILLE EL DORADO CALIFORNIA	801 YONAGI VALLEY ROAD SUITE 220 WALNUT CREEK, CA 94596 925-943-2777 FAX 925-943-2778 associates, inc. PLANNING ENGINEERING SURVEYING	DATE: 07-14-22	REV #	BY	DATE	DESCRIPTION
			SCALE: 1" = 20'	DESIGNED: <input type="checkbox"/>	DRAWN: <input type="checkbox"/>	CHECKED: RB <input type="checkbox"/>	PROJ. MGR: <input type="checkbox"/>





LA Design Group, Inc.
 2071 GARDWAY CENTER DRIVE, STE. 201
 DANA POINT, CA 92629
 (714) 946-1111

OLIVE STREET
 LANDSCAPE ARCHITECTURE
 1100 S. GARDWAY
 DANA POINT, CA 92629
 (714) 946-1111

Quick Quack
CAR WASH
 (STORE 26-630)
 MISSOURI PLAT ROAD & ROUTE 50
 PLACERVILLE, CA

QUICK QUACK CAR WASH
 1000 LEAD HILL BLVD., STE. 208
 FOLSOM, CA 95630

LANDSCAPE PLAN
 L1

PLANT SCHEDULE

NO.	SYMBOL / CONSTRUCTION	CODE	QUANTITY
1	Aspen / Snow White / Snow White Red Maple	1.00	100
2	Redwood / Redwood	1.00	100
3	Redwood / Redwood	1.00	100
4	Redwood / Redwood	1.00	100
5	Redwood / Redwood	1.00	100
6	Redwood / Redwood	1.00	100
7	Redwood / Redwood	1.00	100
8	Redwood / Redwood	1.00	100
9	Redwood / Redwood	1.00	100
10	Redwood / Redwood	1.00	100
11	Redwood / Redwood	1.00	100
12	Redwood / Redwood	1.00	100
13	Redwood / Redwood	1.00	100
14	Redwood / Redwood	1.00	100
15	Redwood / Redwood	1.00	100
16	Redwood / Redwood	1.00	100
17	Redwood / Redwood	1.00	100
18	Redwood / Redwood	1.00	100
19	Redwood / Redwood	1.00	100
20	Redwood / Redwood	1.00	100
21	Redwood / Redwood	1.00	100
22	Redwood / Redwood	1.00	100
23	Redwood / Redwood	1.00	100
24	Redwood / Redwood	1.00	100
25	Redwood / Redwood	1.00	100
26	Redwood / Redwood	1.00	100
27	Redwood / Redwood	1.00	100
28	Redwood / Redwood	1.00	100
29	Redwood / Redwood	1.00	100
30	Redwood / Redwood	1.00	100
31	Redwood / Redwood	1.00	100
32	Redwood / Redwood	1.00	100
33	Redwood / Redwood	1.00	100
34	Redwood / Redwood	1.00	100
35	Redwood / Redwood	1.00	100
36	Redwood / Redwood	1.00	100
37	Redwood / Redwood	1.00	100
38	Redwood / Redwood	1.00	100
39	Redwood / Redwood	1.00	100
40	Redwood / Redwood	1.00	100
41	Redwood / Redwood	1.00	100
42	Redwood / Redwood	1.00	100
43	Redwood / Redwood	1.00	100
44	Redwood / Redwood	1.00	100
45	Redwood / Redwood	1.00	100
46	Redwood / Redwood	1.00	100
47	Redwood / Redwood	1.00	100
48	Redwood / Redwood	1.00	100
49	Redwood / Redwood	1.00	100
50	Redwood / Redwood	1.00	100

COMPLIANCE STATEMENT
 I have consulted with the City of the water use patterns and modified from schedule to the efficient use of water in the landscape design.

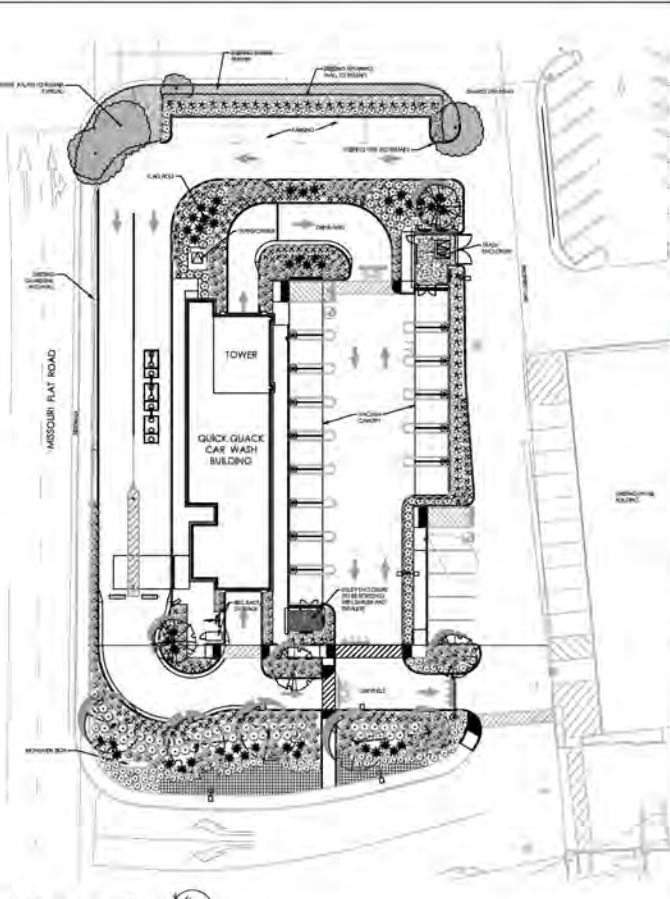
LANDSCAPE / PLANTING NOTES
 1. All plants to be installed in accordance with the City of Placer County Water Conservation Ordinance.
 2. Plants to be installed in accordance with the City of Placer County Water Conservation Ordinance.
 3. All plants to be installed in accordance with the City of Placer County Water Conservation Ordinance.

Water Efficient Landscape Worksheet

PLANT SPECIES	PLANT FACTOR	AREA (SQ FT)	WATER USE (GAL)	WATER USE (GAL)	WATER USE (GAL)	WATER USE (GAL)	WATER USE (GAL)
ASPEN	1.00	100	100	100	100	100	100
REDWOOD	1.00	100	100	100	100	100	100
SNOW WHITE	1.00	100	100	100	100	100	100
TOTAL							

IRAF Calculations

PLANT SPECIES	PLANT FACTOR	AREA (SQ FT)	WATER USE (GAL)
ASPEN	1.00	100	100
REDWOOD	1.00	100	100
SNOW WHITE	1.00	100	100
TOTAL			



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



LA Design Group, Inc.
 2571 GATEWAY CENTER DRIVE, STE. 204
 BAKERSFIELD, CA 93311
 (805) 836-1110



OLIVE STREET
 WOODCAY ANDERSON
 415 S. BRIDGE
 BAKERSFIELD, CA 93307
 (805) 836-1110
 www.ladsgroup.com



QUICK QUACK CAR WASH
 1900 LEAD HILL BLVD, STE. 208
 FORTMILL, CA 95927

NO.	DATE	DESCRIPTION
1	01/12/21	PRELIMINARY SUBMITTAL
2	02/11/21	REVISIONS
3	03/11/21	REVISIONS
4	04/11/21	REVISIONS
5	05/11/21	REVISIONS
6	06/11/21	REVISIONS
7	07/11/21	REVISIONS
8	08/11/21	REVISIONS
9	09/11/21	REVISIONS
10	10/11/21	REVISIONS
11	11/11/21	REVISIONS
12	12/11/21	REVISIONS

LANDSCAPE PLAN
 SHEET NO. L1

PLANT SCHEDULE

NO.	SYMBOL / COMMON NAME	QTY	SIZE
1	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
2	Bulb + Priority / Possible Crowsfoot	1.00	8" x 8"
3	Asplenium Thelypteris	1.00	12" x 18"
4	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
5	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
6	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
7	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
8	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
9	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
10	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
11	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
12	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
13	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
14	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
15	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
16	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
17	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
18	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
19	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
20	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
21	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
22	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
23	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
24	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
25	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
26	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
27	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
28	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
29	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
30	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
31	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
32	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
33	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
34	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
35	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
36	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
37	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
38	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
39	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
40	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
41	Asplenium Thelypteris / New York Fern	1.00	12" x 18"
42	Asplenium Thelypteris / New York Fern	1.00	12" x 18"

COMPLIANCE STATEMENT
 I have consulted with the cities of the water use ordinance and modified these accordingly for the efficient use of water in the landscape design plan.
 [Signature] 1/12/21

LANDSCAPE/ PLANTING NOTES

- All new and existing landscape irrigation systems shall be designed in accordance with the City of Fort Mill Water Conservation Ordinance.
- Planting shall be done in accordance with the City of Fort Mill Water Conservation Ordinance.
- Existing trees shall be maintained and protected in accordance with the City of Fort Mill Water Conservation Ordinance.

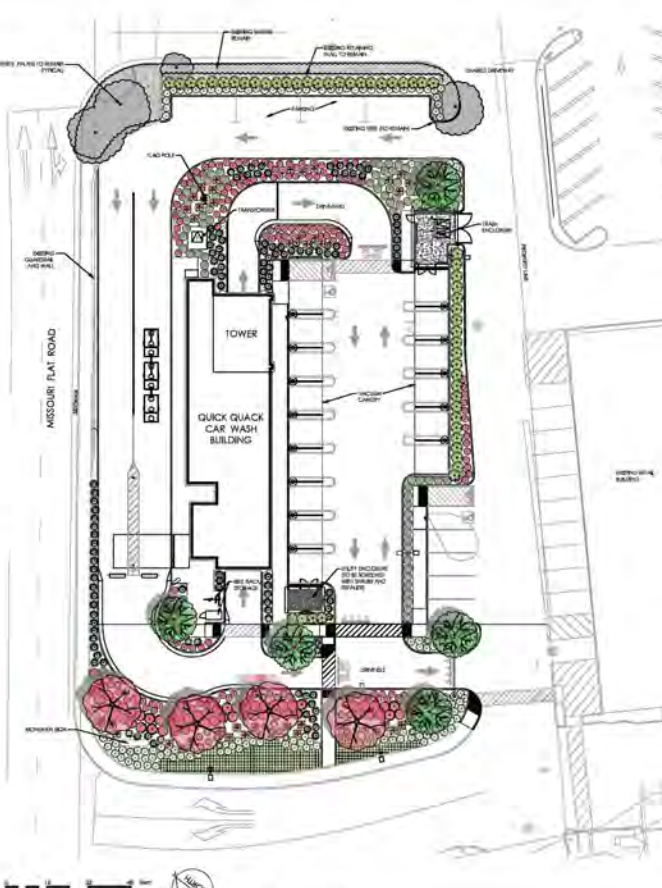
Water Efficient Landscape Worksheet

PLANTING AREA	PLANT SPECIES	PLANT SIZE	PLANT QTY	PLANT WATER USE	PLANT WATER USE (GAL)	PLANT WATER USE (GAL)
1	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
2	Bulb + Priority	8" x 8"	1	0.1	0.1	0.1
3	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
4	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
5	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
6	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
7	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
8	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
9	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
10	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
11	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
12	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
13	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
14	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
15	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
16	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
17	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
18	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
19	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
20	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
21	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
22	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
23	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
24	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
25	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
26	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
27	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
28	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
29	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
30	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
31	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
32	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
33	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
34	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
35	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
36	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
37	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
38	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
39	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
40	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
41	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1
42	Asplenium Thelypteris	12" x 18"	1	0.1	0.1	0.1

ETAF Calculations

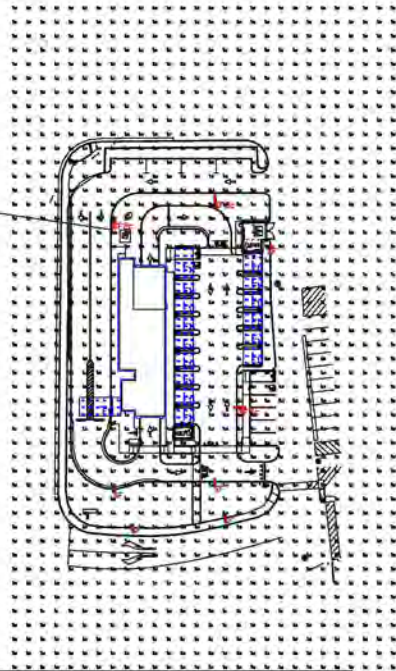
ETAF (GAL) Area	36.277
ETAF (GAL) Per Plant	18.794
Average ETAF	17.1/3.38

1. Average ETAF for Regular landscape area shall not exceed 20 for residential areas and 25 for commercial areas.



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set

Pole to be used for flag pole light



Fixture	Quantity	Height	Area	Footcandle
FIXTURE 1	10	15'	100	150
FIXTURE 2	10	15'	100	150
FIXTURE 3	10	15'	100	150
FIXTURE 4	10	15'	100	150
FIXTURE 5	10	15'	100	150
FIXTURE 6	10	15'	100	150
FIXTURE 7	10	15'	100	150
FIXTURE 8	10	15'	100	150
FIXTURE 9	10	15'	100	150
FIXTURE 10	10	15'	100	150

NOTE: STANDARD 120-277v UNLESS OTHERWISE SPECIFIED

Symbol	Qty	Label	Arrangement	Description	LLD	LDL	LLP	App. Lum. Lumens	App. Watts
1	10	FIX	SINGLE	VARIABLE VOLTAGE SUPPLIES BY MOUNTAGE	1000	1000	1000	8770	35.95
2	10	SP	SINGLE	MS-LED-SL-UL-FT-5A-T000-2000-1P POLE-UP BASE	1000	1000	1000	6000	135
3	10	SP	SINGLE	MS-LED-SL-UL-FT-5A-T000-2000-1P POLE-UP BASE	1000	1000	1000	33780	870

CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set

PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent anticipated conditions. The engineer and architect shall determine the quantity of the system to address the lighting conditions.

The lighting plan represents a prediction based on the data provided. It does not constitute a guarantee of performance or a warranty. The lighting conditions shown are based on the information provided and are not intended to be used as a basis for any other construction or design. The lighting conditions shown are based on the information provided and are not intended to be used as a basis for any other construction or design.

Scale: Project Units
 Date: 10/10/2022

Lighting Professional - License No. 123456789

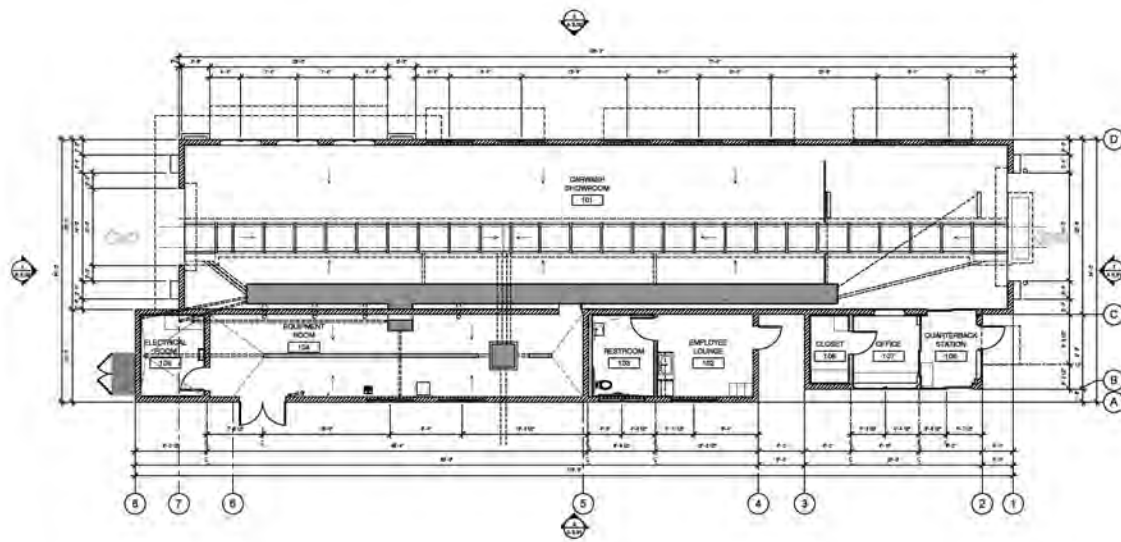
PROJECT 1
 SHEET 1
 1" = 10'



LA Design Group, Inc.
 3751 GARDEN CENTER DRIVE, STE. 211
 OAKLAND, CA 94612
 (415) 866-1010



2022: The information on this drawing was prepared by the Licensed Professional Engineer and Architect, and is based on the information provided by the client. The Engineer and Architect assume no responsibility for the accuracy or completeness of the information provided by the client.



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



FLOOR PLAN SCALE 1/8" = 1'-0" 1

QUICK QUACK CARWASH
 1884 MISSOURI PLAZA ROAD
 FLAZARVILLE, CALIFORNIA

ENTIREMENT SUBMITAL	DATE
No. Description	Date
1	11/15/22
2	11/15/22
3	11/15/22
4	11/15/22
5	11/15/22
6	11/15/22
7	11/15/22
8	11/15/22
9	11/15/22
10	11/15/22

FLOOR PLAN

A 2.01



LA Design Group, Inc.
 3751 QUINCY CENTER DRIVE, STE. 211
 OAKLAND, CA 94612
 (415) 554-6100



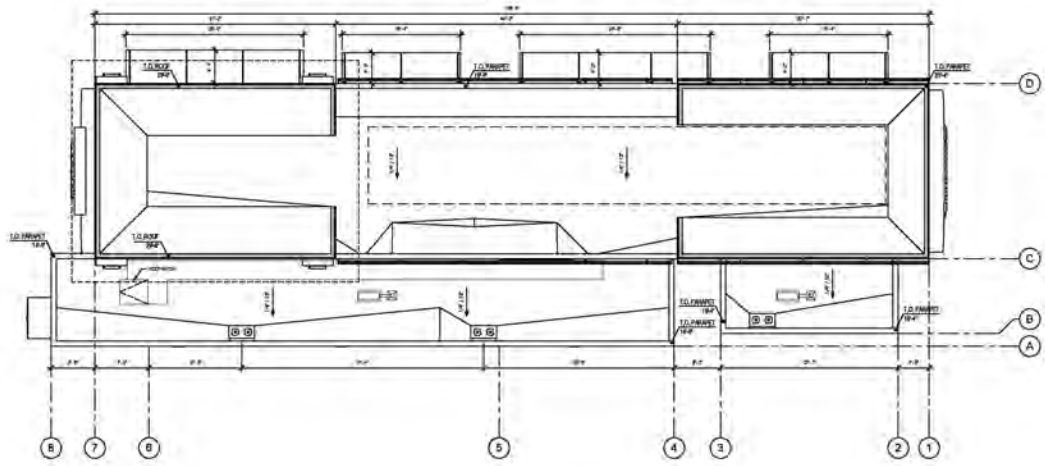
NOTE: THE INFORMATION CONTAINED HEREIN IS ONLY AS FURNISHED TO US BY THE CLIENT. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR QUALITY OF THE INFORMATION. THE INFORMATION IS PROVIDED AS IS AND WITHOUT WARRANTY OF ANY KIND, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



QUICK QUACK CARWASH
 17814 N. RIVERVIEW
 FOLSOM, CALIF.

ENTIREMENT SUBMITAL	DATE
No.	Description
1	17814 N. RIVERVIEW
2	17814 N. RIVERVIEW
3	17814 N. RIVERVIEW
4	17814 N. RIVERVIEW
5	17814 N. RIVERVIEW
6	17814 N. RIVERVIEW
7	17814 N. RIVERVIEW
8	17814 N. RIVERVIEW
9	17814 N. RIVERVIEW
10	17814 N. RIVERVIEW

ROOF PLAN
 A 2.02



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set

ROOF PLAN 1



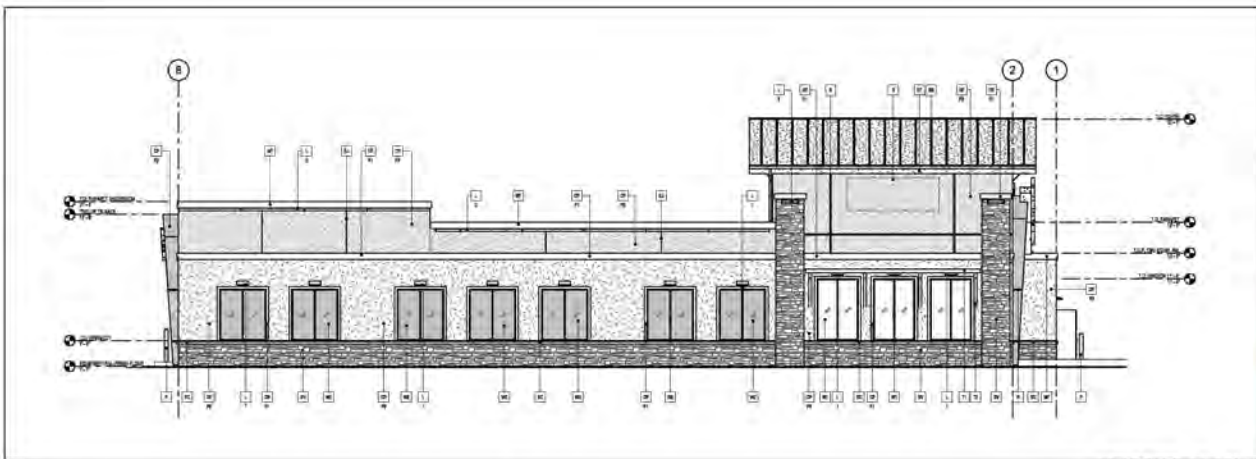
LA Design Group, Inc.
 9781 GATEWAY CENTER DRIVE, STE. 211
 OAKLAND, CA 94617
 (415) 434-6100



2025: The information on this drawing was prepared by the person(s) whose name(s) appear(s) on this drawing and is based on information supplied by others. The engineer is not responsible for the accuracy of the information or the results of any use of the information not intended by the engineer.
 A-11-2005

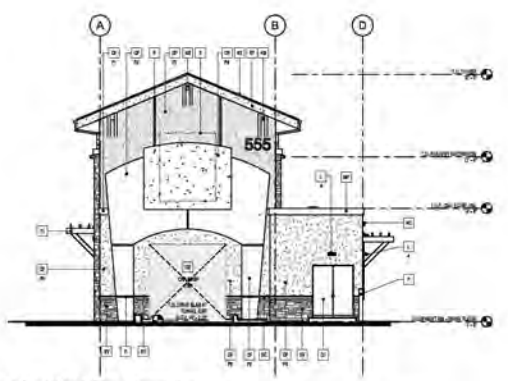


PROJECT NO. 22-008
 3884 MISSOURI FLAT ROAD
 PLACERVILLE, CA 95667



WEST ELEVATION SCALE: 1/8" = 1'-0" 2

- EXTERIOR ELEVATION KEYNOTES**
- 1. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 2. BRICKWORK, FLAT ROOF BRICKWORK
 - 3. METAL FINISH COLORED
 - 4. CLEAR GLAZING
 - 5. 1/4" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 6. BRICKWORK, FLAT ROOF BRICKWORK
 - 7. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 8. BRICKWORK, FLAT ROOF BRICKWORK
 - 9. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 10. BRICKWORK, FLAT ROOF BRICKWORK
 - 11. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 12. BRICKWORK, FLAT ROOF BRICKWORK
 - 13. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 14. BRICKWORK, FLAT ROOF BRICKWORK
 - 15. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 16. BRICKWORK, FLAT ROOF BRICKWORK
 - 17. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 18. BRICKWORK, FLAT ROOF BRICKWORK
 - 19. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 20. BRICKWORK, FLAT ROOF BRICKWORK
 - 21. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 22. BRICKWORK, FLAT ROOF BRICKWORK
 - 23. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 24. BRICKWORK, FLAT ROOF BRICKWORK
 - 25. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 26. BRICKWORK, FLAT ROOF BRICKWORK
 - 27. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 28. BRICKWORK, FLAT ROOF BRICKWORK
 - 29. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 30. BRICKWORK, FLAT ROOF BRICKWORK
 - 31. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 32. BRICKWORK, FLAT ROOF BRICKWORK
 - 33. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 34. BRICKWORK, FLAT ROOF BRICKWORK
 - 35. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 36. BRICKWORK, FLAT ROOF BRICKWORK
 - 37. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 38. BRICKWORK, FLAT ROOF BRICKWORK
 - 39. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 40. BRICKWORK, FLAT ROOF BRICKWORK
 - 41. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 42. BRICKWORK, FLAT ROOF BRICKWORK
 - 43. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 44. BRICKWORK, FLAT ROOF BRICKWORK
 - 45. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 46. BRICKWORK, FLAT ROOF BRICKWORK
 - 47. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 48. BRICKWORK, FLAT ROOF BRICKWORK
 - 49. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 50. BRICKWORK, FLAT ROOF BRICKWORK
 - 51. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 52. BRICKWORK, FLAT ROOF BRICKWORK
 - 53. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 54. BRICKWORK, FLAT ROOF BRICKWORK
 - 55. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 56. BRICKWORK, FLAT ROOF BRICKWORK
 - 57. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 58. BRICKWORK, FLAT ROOF BRICKWORK
 - 59. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 60. BRICKWORK, FLAT ROOF BRICKWORK
 - 61. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 62. BRICKWORK, FLAT ROOF BRICKWORK
 - 63. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 64. BRICKWORK, FLAT ROOF BRICKWORK
 - 65. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 66. BRICKWORK, FLAT ROOF BRICKWORK
 - 67. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 68. BRICKWORK, FLAT ROOF BRICKWORK
 - 69. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 70. BRICKWORK, FLAT ROOF BRICKWORK
 - 71. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 72. BRICKWORK, FLAT ROOF BRICKWORK
 - 73. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 74. BRICKWORK, FLAT ROOF BRICKWORK
 - 75. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 76. BRICKWORK, FLAT ROOF BRICKWORK
 - 77. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 78. BRICKWORK, FLAT ROOF BRICKWORK
 - 79. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 80. BRICKWORK, FLAT ROOF BRICKWORK
 - 81. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 82. BRICKWORK, FLAT ROOF BRICKWORK
 - 83. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 84. BRICKWORK, FLAT ROOF BRICKWORK
 - 85. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 86. BRICKWORK, FLAT ROOF BRICKWORK
 - 87. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 88. BRICKWORK, FLAT ROOF BRICKWORK
 - 89. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 90. BRICKWORK, FLAT ROOF BRICKWORK
 - 91. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 92. BRICKWORK, FLAT ROOF BRICKWORK
 - 93. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 94. BRICKWORK, FLAT ROOF BRICKWORK
 - 95. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 96. BRICKWORK, FLAT ROOF BRICKWORK
 - 97. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 98. BRICKWORK, FLAT ROOF BRICKWORK
 - 99. 1/2" BRICK CONSTRUCTION, VENEER BRICK, ACCENT
 - 100. BRICKWORK, FLAT ROOF BRICKWORK



SOUTH ELEVATION SCALE: 1/8" = 1'-0" 1

CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set

QUICK QUACK CAR WASH
 1801 AND HILL ST., STE. 208
 SACRAMENTO, CA 95811

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 APPROVED BY: _____

PROJECT NO. 22-008
 3884 MISSOURI FLAT ROAD
 PLACERVILLE, CA 95667

DATE: 05/20/2020
 SCALE: AS SHOWN

NO. Description Date
 1 01/20/2020
 2 05/20/2020

DATE: 05/20/2020
 SCALE: AS SHOWN

S & W EXTERIOR ELEVATIONS

A 3.01



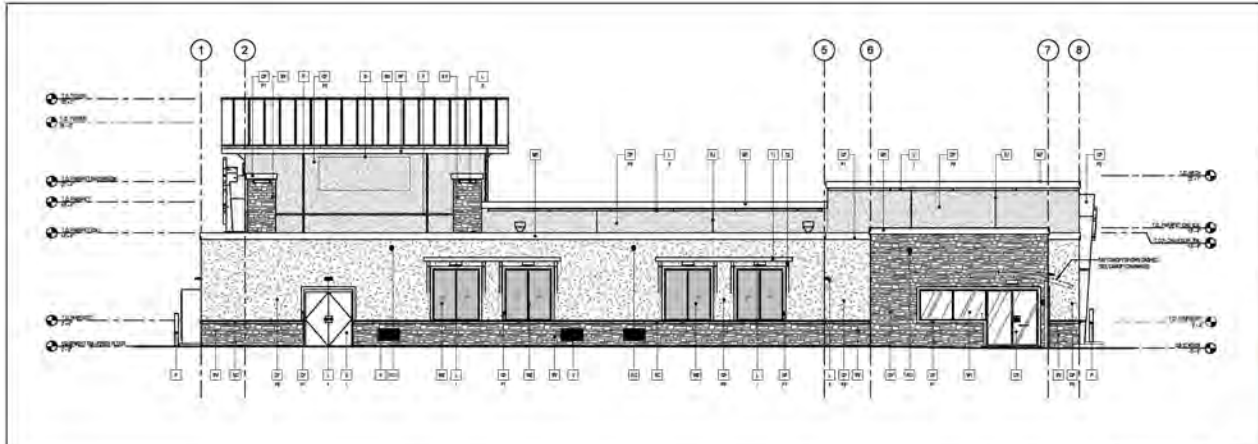
LA Design Group, Inc.
 9707 GARDWAY CENTER DRIVE, STE. 213
 OAKLAND, CA 94618
 (415) 554-9000



NOTE: The contractor shall verify the accuracy of all information provided by the client. The contractor shall be responsible for any errors or omissions in the drawings. The contractor shall be responsible for any errors or omissions in the drawings.



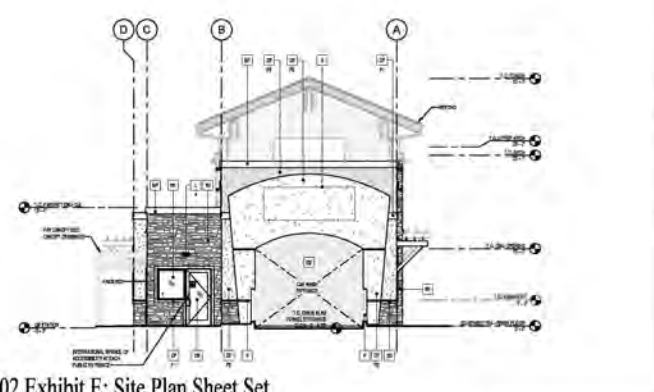
PROJECT NO. 20408
 3804 MISSOURI FLAT ROAD
 PLACERVILLE, CA 95667



EAST ELEVATION SCALE 1/8" = 1'-0" 2

- EXTERIOR ELEVATION KEYNOTES**
- 1. EXTERIOR WALL FINISH
 - 2. EXTERIOR WALL FINISH
 - 3. EXTERIOR WALL FINISH
 - 4. EXTERIOR WALL FINISH
 - 5. EXTERIOR WALL FINISH
 - 6. EXTERIOR WALL FINISH
 - 7. EXTERIOR WALL FINISH
 - 8. EXTERIOR WALL FINISH
 - 9. EXTERIOR WALL FINISH
 - 10. EXTERIOR WALL FINISH
 - 11. EXTERIOR WALL FINISH
 - 12. EXTERIOR WALL FINISH
 - 13. EXTERIOR WALL FINISH
 - 14. EXTERIOR WALL FINISH
 - 15. EXTERIOR WALL FINISH
 - 16. EXTERIOR WALL FINISH
 - 17. EXTERIOR WALL FINISH
 - 18. EXTERIOR WALL FINISH
 - 19. EXTERIOR WALL FINISH
 - 20. EXTERIOR WALL FINISH
 - 21. EXTERIOR WALL FINISH
 - 22. EXTERIOR WALL FINISH
 - 23. EXTERIOR WALL FINISH
 - 24. EXTERIOR WALL FINISH
 - 25. EXTERIOR WALL FINISH
 - 26. EXTERIOR WALL FINISH
 - 27. EXTERIOR WALL FINISH
 - 28. EXTERIOR WALL FINISH
 - 29. EXTERIOR WALL FINISH
 - 30. EXTERIOR WALL FINISH

- 31. EXTERIOR WALL FINISH
- 32. EXTERIOR WALL FINISH
- 33. EXTERIOR WALL FINISH
- 34. EXTERIOR WALL FINISH
- 35. EXTERIOR WALL FINISH
- 36. EXTERIOR WALL FINISH
- 37. EXTERIOR WALL FINISH
- 38. EXTERIOR WALL FINISH
- 39. EXTERIOR WALL FINISH
- 40. EXTERIOR WALL FINISH
- 41. EXTERIOR WALL FINISH
- 42. EXTERIOR WALL FINISH
- 43. EXTERIOR WALL FINISH
- 44. EXTERIOR WALL FINISH
- 45. EXTERIOR WALL FINISH
- 46. EXTERIOR WALL FINISH
- 47. EXTERIOR WALL FINISH
- 48. EXTERIOR WALL FINISH
- 49. EXTERIOR WALL FINISH
- 50. EXTERIOR WALL FINISH



NORTH ELEVATION SCALE 1/8" = 1'-0" 1

CUP22-0002/PD-R22-0002 Exhibit E: Site Plan Sheet Set

QUICK QUACK CAR WASH
 1801 AND HILL ST., STE. 204
 OAKLAND, CA 94612

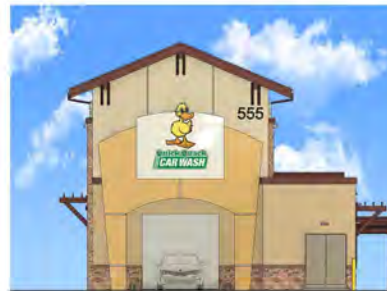
NO.	DESCRIPTION	DATE

N & E EXTERIOR ELEVATIONS

A 3.02



WEST ELEVATION SCALE 1/8" = 1'-0" 2



SOUTH ELEVATION SCALE 1/8" = 1'-0" 1

CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



LA Design Group, Inc.
 21571 GATEWAY CENTER DRIVE, STE. 213
 DANA POINT, CA 92629
 (714) 440-1010



NOTE: This information is prepared in reliance on data submitted to the architect by the owner and is subject to adjustment pending further information and field, survey and environmental data, as necessary. The architect is not responsible for any errors or omissions or for any consequences that may result from the use of this information.

A-1



3864 MISSOURI FLAT ROAD
 PLACERVILLE, CA 95667

Client: QUICK QUACK CAR WASH
 1380 LEAD HILL BLVD, STE. 208
 BOREN HILL, CA 95801

Revisions:	

UPDATED (EXT. SUBMITTAL)	08/14/2020	
ENTIREMENT SUBMITTAL	12/14/2020	
No.	Description	Date

COLOR ELEVATIONS

Sheet # A 3.03

ALL DIMENSIONS UNLESS OTHERWISE NOTED



EAST ELEVATION SCALE 1/8" = 1'-0" 2



NORTH ELEVATION SCALE 1/8" = 1'-0" 1

CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



LA Design Group, Inc.
21511 GATEWAY CENTER DRIVE, STE. 213
DAMONDO PARK, CA 91765
(714) 964-1010



NOTE: This information is prepared in reliance on data submitted by the client and is not to be used for any other purpose without the client's consent. The architect assumes no responsibility for the accuracy or completeness of any information provided by the client. The architect is not responsible for any errors or omissions in this document.

A-10-10-10



PROJECT NO. 22-008
3864 MISSOURI FLAT ROAD
PLACERVILLE, CA 95667

Client: QUICK QUACK CAR WASH
1380 LEAD HILL BLVD, STE. 208
ROCKVILLE, CA 95761

Revisions:	

UPDATED (EXT. SUBMITTAL)	08/14/2022	
ENTIREMENT SUBMITTAL	12/14/2022	
No.	Description	Date
1	1/1/2022	
2		
3		
4		
5		
6		
7		
8		
9		
10		

COLOR ELEVATIONS

Sheet # A 3.04

ALL DIMENSIONS UNLESS OTHERWISE NOTED



SOUTHWEST PERSPECTIVE ILLUSTRATION SCALE N/A 2



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set

NORTHEAST PERSPECTIVE ILLUSTRATION SCALE N/A 1



LA Design Group, Inc.
 21571 GATEWAY CENTER DRIVE, STE. 213
 DANA POINT, CA 92629
 (714) 444-1110



NOTES: This information is prepared in reliance on data submitted to the architect by the owner and is subject to adjustment pending further information and other, technical, and environmental factors. The architect assumes no responsibility for any error or omission or for any delay in the project or for any consequences thereof.

A Property:



(PROJECT NO. 22-008)
 3864 MISSOURI FLAT ROAD
 PLACERVILLE, CA 95667

Client: QUICK QUACK CAR WASH
 1380 LEAD HILL BLVD, STE. 208
 ROCKVILLE, CA 95061

Project No.	Description	Date

Updated Date	Submitted	By

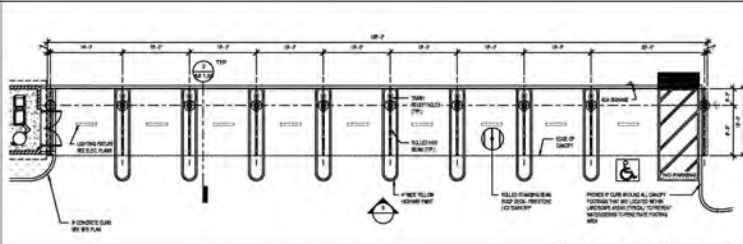
PERSPECTIVES

Sheet # A 3.05

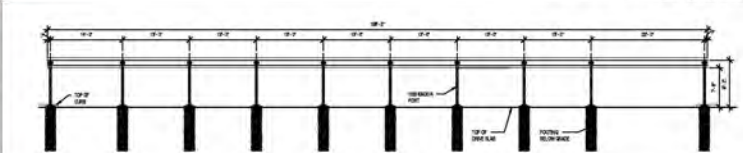
© LA DESIGN GROUP, INC. ALL RIGHTS RESERVED



WEST VACUUM CANOPY PHOTO SCALE: NO SCALE 15



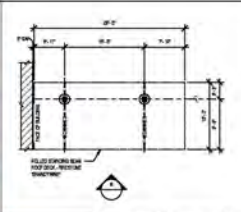
WEST VACUUM CANOPY PLAN SCALE: 1/8" = 1'-0" 4



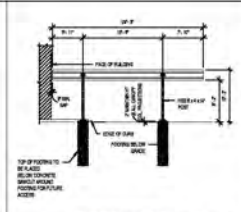
WEST VACUUM CANOPY ELEVATION SCALE: 1/8" = 1'-0" 3



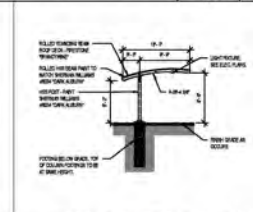
PAY STATION CANOPY PHOTO SCALE: NO SCALE 13



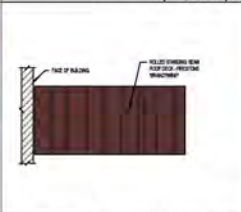
PAY STATION PLAN SCALE: 1/8" = 1'-0" 10



PAY STATION ELEVATION SCALE: 1/8" = 1'-0" 6



TYPICAL CANOPY SECTION SCALE: 1/8" = 1'-0" 2



PAY STATION COLOR ROOF PLAN SCALE: 1/8" = 1'-0" 9



PAY STATION COLORED ELEVATION SCALE: 1/8" = 1'-0" 5



TYPICAL CANOPY SIDE ELEVATION SCALE: 1/8" = 1'-0" 1

LA Dg
 LA Design Group, Inc.
 11711 GATEWAY CENTER DRIVE, STE. 213
 DANA POINT, CA 92629
 (714) 441-1100



SCALE: THIS DOCUMENT IS INTENDED TO BE USED AS A REFERENCE TO THE PROJECT AND NOT AS A CONTRACT DOCUMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE AND FEDERAL AGENCIES.



CLIENT: QUICK QUACK CARWASH
 1780 LEAD HILL BLVD #208
 RIVERSIDE, CA 92504

DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____
 SCALE: _____

UPDATED (EXT. SUBMITTAL)	REV	DESCRIPTION
ENTIREMENT SUBMITTAL	1/21/2022	

WEST VACUUM CANOPY

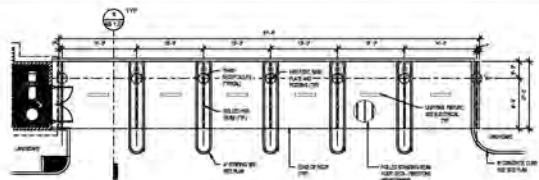
AS 1.06



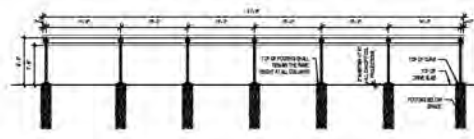
LA Design Group, Inc.
 9767 GATEWAY CENTER DRIVE, STE. 213
 OAKLAND, CA 94618
 (415) 866-1000



NOTE: THE INFORMATION CONTAINED HEREIN IS ONLY AS SHOWN IN THE ATTACHED PLANS AND SPECIFICATIONS. THE INFORMATION IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF LA DESIGN GROUP, INC.



EAST VACUUM CANOPY PLAN SCALE: 1/4" = 1'-0" SHEET: 4



EAST VACUUM CANOPY ELEVATION SCALE: 1/4" = 1'-0" SHEET: 3



EAST VACUUM CANOPY COLORED ROOF PLAN SCALE: 1/4" = 1'-0" SHEET: 2



EAST VACUUM CANOPY COLORED ELEVATION SCALE: 1/4" = 1'-0" SHEET: 1

TRUCK CANOPY SECTION SCALE: 1/4" = 1'-0" SHEET: 17

CUP22-000/PD-R22-0002 Exhibit E: Site Plan Sheet Set

PROJECT NO. 200801
 3841 MISSOURI FLAT ROAD
 PLACERVILLE, CA

QUICK QUACK CARWASH

1700 W. 45th St. #100
 BIRMINGHAM, ALABAMA

NO.	DESCRIPTION	DATE
1	PRELIMINARY	07/20/08
2	REVISED	08/12/08
3	REVISED	09/02/08
4	REVISED	10/02/08
5	REVISED	11/02/08
6	REVISED	12/02/08
7	REVISED	01/02/09
8	REVISED	02/02/09
9	REVISED	03/02/09
10	REVISED	04/02/09
11	REVISED	05/02/09
12	REVISED	06/02/09
13	REVISED	07/02/09
14	REVISED	08/02/09
15	REVISED	09/02/09
16	REVISED	10/02/09
17	REVISED	11/02/09
18	REVISED	12/02/09
19	REVISED	01/02/10
20	REVISED	02/02/10
21	REVISED	03/02/10
22	REVISED	04/02/10
23	REVISED	05/02/10
24	REVISED	06/02/10
25	REVISED	07/02/10
26	REVISED	08/02/10
27	REVISED	09/02/10
28	REVISED	10/02/10
29	REVISED	11/02/10
30	REVISED	12/02/10

EAST VACUUM CANOPY

AS 1.07



LA Design Group, Inc.
 9701 GARDWAY CENTER DRIVE, STE. 213
 OAKLAND, CA 94618
 (415) 554-1000



3006 (2008)
 3800 MISSISSIPPI ROAD
 FULLERTON, CA

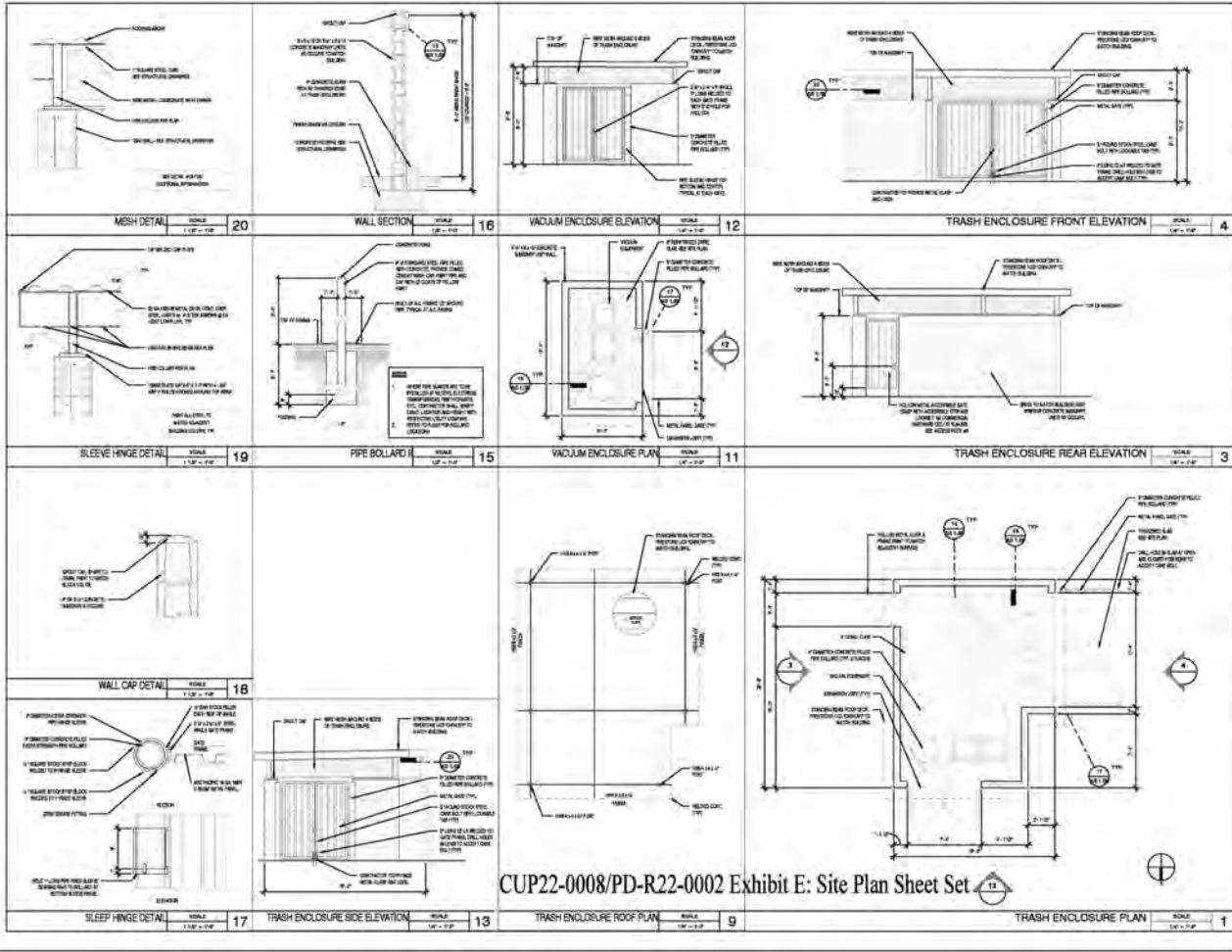
QUICK QUACK CARWASH
 1700 N. H. BLVD. #100
 FULLERTON, CA 92708

DATE	DESCRIPTION	BY	CHK

SITE ELEMENTS

AS 1.08

© 2008 LA DESIGN GROUP, INC.



CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



CP - CEMENT PLASTER COLOR COAT



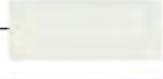
P1 - SHERWIN WILLIAMS #6034 DARK AUBURN



P2 - SHERWIN WILLIAMS #6374 "TORCHLIGHT"



P3 - SHERWIN WILLIAMS #6120 "BELIEVABLE BUFF"



P4 - SHERWIN WILLIAMS #7004 "SNOWBOUND"



P5 - SHERWIN WILLIAMS #6122 "CAMELBACK"



W1 - EXTERIOR STOREFRONT SYSTEM
CLEAR ANODIZED ALUMINUM STOREFRONT



ST - STONE VENEER TRIM SILL, ANGELUS
BLOCK - "PLACER CREEK BURNISHED"



SV - STONE VENEER, CORONADO STONE
"QUICK STACK - CAMEL MOUNTAIN"

FINISH AND MATERIAL BOARD

CUP22-0008/PD-R22-0002 Exhibit E: Site Plan Sheet Set



LADG | LA Design Group, Inc.

2181 GATEWAY CENTER DRIVE, STE. 210 | BAKERSFIELD | CALIFORNIA 93311 | TEL: 805.836.1010 | WWW.LADG.NET

© LA Design Group, Inc. 2022. All rights reserved.
NOT: This information is provided for informational purposes only and is not intended to constitute an offer of any financial product or service. Terms and conditions apply to all services provided. For more information, please contact your advisor at LADG.

QUICK QUACK CAR WASH

3964 MISSOURI FLAT ROAD
PLACERVILLE, CA 95667



LADG JOB #:	211001
DATE:	02/18/2023
REVISIONS:	

Quick Quack Car Wash (Store #26-630)

Noise Impact Study

County of El Dorado, CA

Prepared for:

Quick Quack Development II, LLC

Vance Shannon
1380 Lead Hill Blvd #260
Roseville, CA 95661

Prepared by:

MD Acoustics, LLC

Claire Pincock, INCE-USA
1197 Los Angeles Avenue, Ste 256
Simi Valley, CA 93065

Date: 10/10/2022



Noise Study Reports | Vibration Studies | Air Quality | Greenhouse Gas | Health Risk Assessments

P) AZ - 602.774.1950

P) CA - 805.426.4477

www.mdacoustics.com
info@mdacoustics.com

TABLE OF CONTENTS

1.0	Executive Summary.....	1
1.1	Findings and Conclusions	1
2.0	Introduction	2
2.1	Purpose of Analysis and Study Objectives	2
2.2	Site Location and Study Area	2
2.3	Proposed Project Description	2
3.0	Fundamentals of Noise	5
3.1	Sound, Noise, and Acoustics	5
3.2	Frequency and Hertz	5
3.3	Sound Pressure Levels and Decibels	5
3.4	Addition of Decibels	5
3.5	Human Response to Changes in Noise Levels	6
3.6	Noise Descriptors	6
3.7	Sound Propagation	7
4.0	Regulatory Setting.....	9
4.1	Federal Regulations	9
4.2	State Regulations	9
4.3	County of El Dorado Noise Regulations	11
5.0	Study Method and Procedure.....	16
5.1	Noise Measurement Procedure and Criteria	16
5.2	Stationary Noise Modeling	16
6.0	Existing Noise Environment	17
6.1	Short-Term Noise Measurement Results	17
7.0	Future Noise Environment Impacts	19
7.1	Stationary Source Noise	19
7.1.1	Noise Impacts to Off-Site Receptors Due to Stationary Sources	19
8.0	References	21

LIST OF APPENDICES

Appendix A:	Field Measurement Data	1
Appendix B:	SoundPLAN Input/Outputs	2
Appendix C:	Equipment Reference Data	3

LIST OF EXHIBITS

Exhibit A:	Location Map	3
Exhibit B:	Site Plan.....	4
Exhibit C:	Typical A-Weighted Noise Levels	5
Exhibit D:	Land Use Compatibility Guidelines	10
Exhibit E:	Measurement Locations	18
Exhibit F:	Operational Noise Level Contours	20

LIST OF TABLES

Table 1:	Allowable Noise Level ¹	15
Table 2:	Short-Term Noise Measurement Data (dBA).....	17
Table 3:	Worst-Case Predicted Operational Noise Levels (dBA)	19

1.0 Executive Summary

This report has been prepared to provide the calculated noise projections from the proposed Quick Quack Car Wash (“Project”) located near Missouri Flat Road & Hwy 50 in the County of El Dorado, CA. All calculations are compared to the County of El Dorado’s noise ordinance and General Plan as well as the existing ambient condition. The Project proposes to construct a 108-foot car wash tunnel with 15 vacuum stalls on approximately 1.00 acre.

1.1 Findings and Conclusions

Two (2) baseline 15-minute ambient measurement were performed at the western and eastern corners of the Project site and represent the current operational noise and ambient levels within the Project vicinity. The predominant source of noise impacting the existing site is traffic noise propagating Missouri Flat Road.

This study compares the Project’s operational noise levels to two (2) different noise assessment scenarios: 1) Project only operational noise level projections, and 2) Project plus ambient noise level projections.

Project-only operational noise levels are anticipated to be 41 to 45 dBA Leq at residential uses north and southeast of the project site. The “project-only” noise projections to the adjacent uses do not exceed the City’s 45 dBA evening limit for rural regions as outlined within the City’s Municipal Code (see Section 4.3).

Project plus ambient noise level projections are not anticipated to increase the existing ambient noise level. This assessment evaluates the baseline noise condition and compares the Project’s worst-case operational noise level to the measured noise level (during the Project’s proposed hours of operation).

The following outlines the project design features:

1. The Project will incorporate a 12 Sonny’s blower system with the silencer package installed or equivalent to meet these acoustical benchmarks.

2.0 Introduction

2.1 Purpose of Analysis and Study Objectives

This noise impact study aims to evaluate the potential noise impacts for the Project study area and recommend noise mitigation measures, if necessary, to minimize the potential noise impacts. The assessment was conducted and compared to potentially applicable noise standards set forth by the State and/or local agencies. Consistent with the County's Noise Guidelines, the Project must demonstrate compliance with the applicable noise zoning ordinance and sound attenuation requirements.

The following is provided in this report:

- A description of the study area and the proposed Project
- Information regarding the fundamentals of noise
- A description of the local noise guidelines and standards
- An evaluation of the existing ambient noise environment
- An analysis of stationary noise impact (e.g., blowers and vacuums) from the Project site to adjacent land uses
- An analysis of construction noise to adjacent uses

2.2 Site Location and Study Area

The Project site is near Missouri Flat Road & Hwy 50 in the County of El Dorado, CA, as shown in Exhibit A. The land uses directly surrounding the Project are commercial. There is a church to the south and residential uses to the north and southeast.

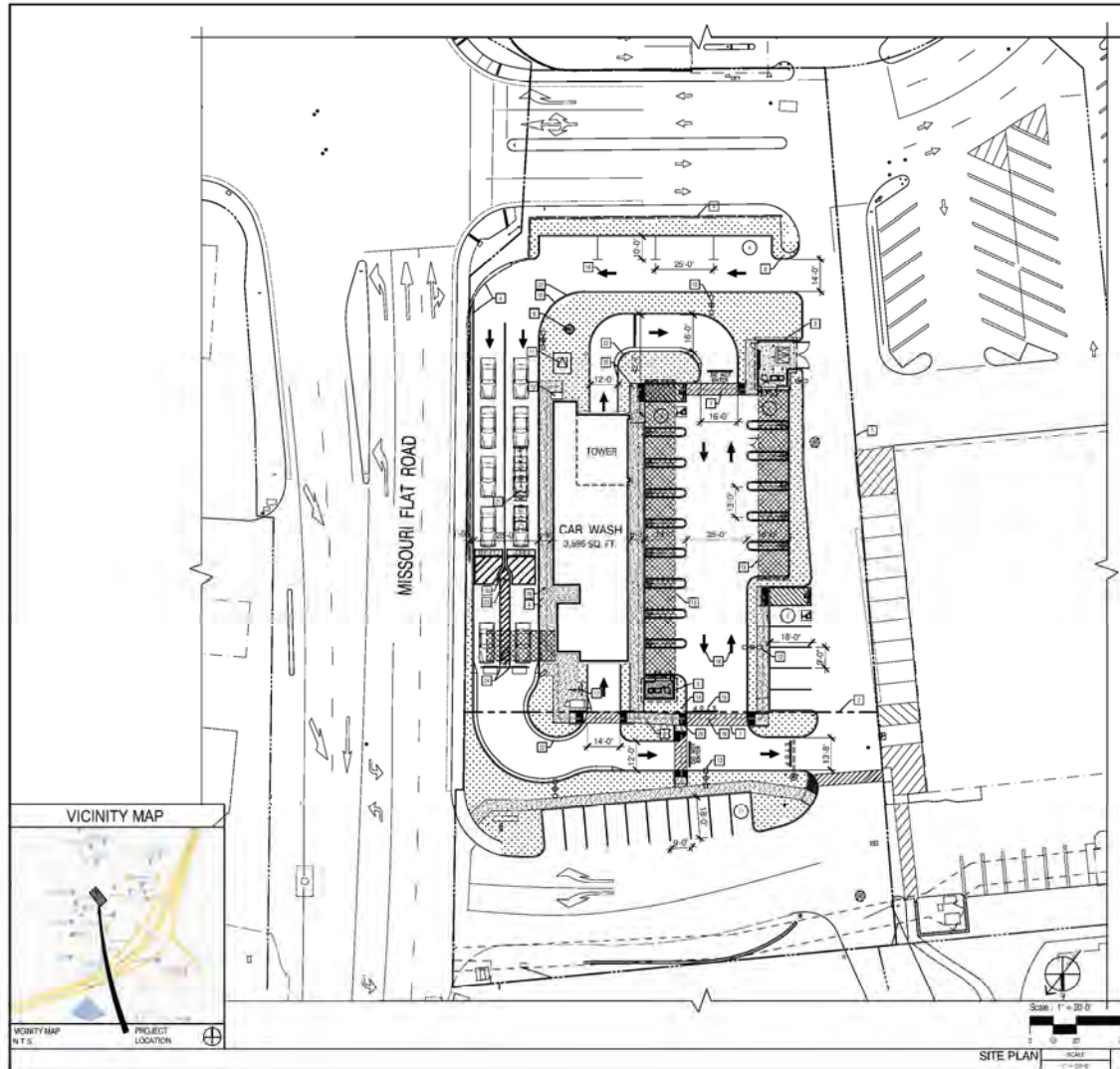
2.3 Proposed Project Description

The Project proposes to develop a 108-foot car wash tunnel and 15 covered vacuum stall systems. The site plan used for this is illustrated in Exhibit B. The Project operational hours are assumed to be between 7 AM to 9 PM, seven days per week.

Exhibit A Location Map



Exhibit B
 Site Plan



PROJECT SUMMARY

DEVELOPER: QUICK QUACK CAR WASH
 1300 LEAD HILL BOULEVARD, SUITE 206
 ROSELILLE, CA 95611

PROPERTY ADDRESS: MISSOURI FLAT ROAD & ROUTE 50
 PLACERVILLE, CA

APN: 327-090-061-000 AND 327-290-042-000

ZONING: CR - COMMERCIAL REGIONAL ZONE

DISTRICT:

PROPOSED PARCEL AREA: 51,912 AC. 44,682 SF

EXISTING LAND USE: (B) RETAIL BUILDING TO BE DEMOLISHED

PROPOSED LAND USE: COMMERCIAL - CAR WASH FACILITY

PROPOSED CARWASH AREA:
 GROSS BUILDING AREA: 3,096 SF
 MAXIMUM BUILDING HEIGHT: 29'-0"
 CONSTRUCTION TYPE: VB
 OCCUPANCY: B
 SPRINKLERS: NO
 PARKING PROVIDED: 2 STALLS
 VACUUM STALLS: 5 STALLS
 BICYCLE SPACES REQUIRED: 1
 BICYCLE SPACES PROVIDED: 2

SITE COVERAGE SUMMARY:
 BUILDING COVERAGE (FAR): 8.1%
 LANDSCAPE AREA: 7,572 SF
 LANDSCAPE COVERAGE: 17%

KEYNOTES:

1. REFER TO CIVIL DRAWING FOR ALL DIMENSIONS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR ALL FINISHES AND MATERIALS.
3. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT.
4. REFER TO ELECTRICAL DRAWINGS FOR ALL ELECTRICAL EQUIPMENT.
5. REFER TO LANDSCAPE ARCHITECTURE DRAWINGS FOR ALL LANDSCAPE DETAILS.
6. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL DETAILS.
7. REFER TO CIVIL DRAWINGS FOR ALL UTILITY DETAILS.
8. REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT DETAILS.
9. REFER TO CIVIL DRAWINGS FOR ALL SIGNAGE DETAILS.
10. REFER TO CIVIL DRAWINGS FOR ALL FENCE DETAILS.
11. REFER TO CIVIL DRAWINGS FOR ALL LIGHTING DETAILS.
12. REFER TO CIVIL DRAWINGS FOR ALL EROSION CONTROL DETAILS.
13. REFER TO CIVIL DRAWINGS FOR ALL DRAINAGE DETAILS.
14. REFER TO CIVIL DRAWINGS FOR ALL ACCESSIBILITY DETAILS.
15. REFER TO CIVIL DRAWINGS FOR ALL SAFETY DETAILS.
16. REFER TO CIVIL DRAWINGS FOR ALL SECURITY DETAILS.
17. REFER TO CIVIL DRAWINGS FOR ALL UTILITIES DETAILS.
18. REFER TO CIVIL DRAWINGS FOR ALL PAVEMENT DETAILS.
19. REFER TO CIVIL DRAWINGS FOR ALL SIGNAGE DETAILS.
20. REFER TO CIVIL DRAWINGS FOR ALL FENCE DETAILS.
21. REFER TO CIVIL DRAWINGS FOR ALL LIGHTING DETAILS.
22. REFER TO CIVIL DRAWINGS FOR ALL EROSION CONTROL DETAILS.
23. REFER TO CIVIL DRAWINGS FOR ALL DRAINAGE DETAILS.
24. REFER TO CIVIL DRAWINGS FOR ALL ACCESSIBILITY DETAILS.
25. REFER TO CIVIL DRAWINGS FOR ALL SAFETY DETAILS.
26. REFER TO CIVIL DRAWINGS FOR ALL SECURITY DETAILS.

LEGEND:

- LIGHT STALL (REFERENCE ELECTRICAL DRAWING)
- PAVEMENT - 4" CONCRETE WITH WALKING SURFACE COURSE AND 4" ASPHALT
- PAVED DRIVEWAY AND SIDEWALK (REFERENCE LANDSCAPE DRAWING)
- PAVED DRIVEWAY AND SIDEWALK (REFERENCE LANDSCAPE DRAWING)
- PAVED DRIVEWAY AND SIDEWALK (REFERENCE LANDSCAPE DRAWING)
- HOISTING USE
- ACTIVE IN (SEE CIVIL DRAWING)
- BICYCLE SPACES (SEE CIVIL DRAWING)



The information contained in this plan and its attachments is prepared by the architect and is subject to the approval of the local, state, and federal agencies concerned. No warranty is made by the architect as to the accuracy or completeness of the information given or omitted by the architect.



Client: **QUICK QUACK CAR WASH**
 1300 LEAD HILL BLVD., STE. 206
 ROSELILLE, CA 95661

Project Name: _____

Site Plan Update: _____

Entitlement Submittal: _____

Site Plan Update: _____

No. Description: _____

Date: _____

Scale: _____

AS NOTED

DATE: _____

BY: _____

PROJECT: _____

SITE PLAN

AS 1.01

3.0 Fundamentals of Noise

This section of the report provides basic information about noise and presents some of the terms used within the report.

3.1 Sound, Noise, and Acoustics

Sound is a disturbance created by a moving or vibrating source and is capable of being detected by the hearing organs. Sound may be thought of as the mechanical energy of a moving object transmitted by pressure waves through a medium to a human ear. For traffic or stationary noise, the medium of concern is air. *Noise* is defined as sound that is loud, unpleasant, unexpected, or unwanted.

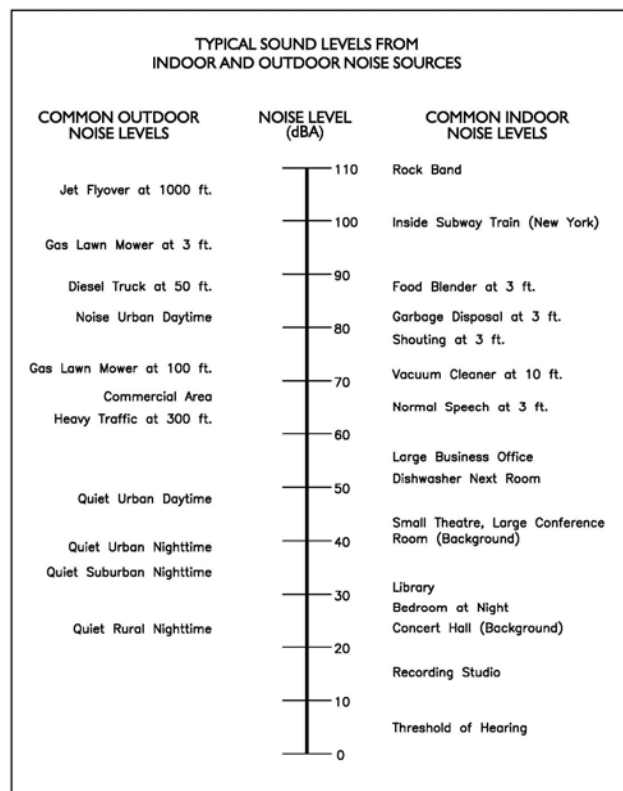
3.2 Frequency and Hertz

A continuous sound is described by its *frequency* (pitch) and *amplitude* (loudness). Frequency relates to the number of pressure oscillations per second. Low-frequency sounds are low in pitch (bass sounding), and high-frequency sounds are high in pitch (squeak). These oscillations per second (cycles) are commonly referred to as Hertz (Hz). The human ear can hear from the bass pitch starting at 20 Hz to the high pitch of 20,000 Hz.

3.3 Sound Pressure Levels and Decibels

The *amplitude* of a sound determines its loudness. The loudness of sound increases or decreases as the amplitude increases or decreases. Sound pressure amplitude is measured in units of micro-Newton per square meter ($\mu\text{N}/\text{m}^2$), also called micro-Pascal (μPa). One μPa is approximately one hundred billionths (0.0000000001) of normal atmospheric pressure. Sound pressure level (SPL or L_p) is used to describe in logarithmic units the ratio of actual sound pressures to a reference pressure squared. These units are called decibels, abbreviated dB. Exhibit C illustrates reference sound levels for different noise sources.

Exhibit C: Typical A-Weighted Noise Levels



3.4 Addition of Decibels

Because decibels are on a logarithmic scale, sound pressure levels cannot be added or subtracted by simple plus or minus addition. When two sounds or equal SPL are combined, they will produce an SPL 3 dB greater than the original single SPL. In other words, sound energy must be doubled to produce a 3 dB increase. If two sounds differ by approximately 10 dB, the higher sound level is the predominant sound.

3.5 Human Response to Changes in Noise Levels

Generally, the healthy human ear is most sensitive to sounds between 1,000 Hz and 5,000 Hz (A-weighted scale). It perceives a sound within that range as being more intense than a sound with a higher or lower frequency with the same magnitude. For purposes of this report as well as with most environmental documents, the A-scale weighting is typically reported in terms of A-weighted decibel (dBA). Typically, the human ear can barely perceive the change in the noise level of 3 dB. A change in 5 dB is readily perceptible, and a change in 10 dB is perceived as being twice or half as loud. As previously discussed, a doubling of sound energy results in a 3 dB increase in sound, which means that a doubling of sound energy (e.g., doubling the traffic volume on a highway) would result in a barely perceptible change in sound level.

3.6 Noise Descriptors

Noise in our daily environment fluctuates over time. Some noise levels occur in regular patterns; others are random. Some noise levels are constant, while others are sporadic. Noise descriptors were created to describe the different time-varying noise levels.

A-Weighted Sound Level: The sound pressure level in decibels as measured on a sound level meter using the A-weighted filter network. The A-weighting filter de-emphasizes the very low and very high-frequency components of the sound in a manner similar to the response of the human ear. A numerical method of rating human judgment of loudness.

Ambient Noise Level: The composite of noise from all sources, near and far. In this context, the ambient noise level constitutes the normal or existing level of environmental noise at a given location.

Community Noise Equivalent Level (CNEL): The average equivalent A-weighted sound level during a 24-hour day, obtained after the addition of five (5) decibels to sound levels in the evening from 7:00 to 10:00 PM and after the addition of ten (10) decibels to sound levels in the night before 7:00 AM and after 10:00 PM.

Decibel (dB): A unit for measuring the amplitude of a sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micro-pascals.

dB(A): A-weighted sound level (see definition above).

Equivalent Sound Level (LEQ): The sound level corresponding to a steady noise level over a given sample period with the same amount of acoustic energy as the actual time-varying noise level. The energy average noise level during the sample period.

Habitable Room: Any room meeting the requirements of the Uniform Building Code or other applicable regulations which is intended to be used for sleeping, living, cooking, or dining purposes, excluding such enclosed spaces as closets, pantries, bath or toilet rooms, service rooms, connecting corridors, laundries, unfinished attics, foyers, storage spaces, cellars, utility rooms, and similar spaces.

L(n): The A-weighted sound level exceeded during a certain percentage of the sample time. For example, L10 in the sound level exceeded 10 percent of the sample time. Similarly, L50, L90, L99, etc.

Noise: Any unwanted sound or sound which is undesirable because it interferes with speech and hearing, is intense enough to damage hearing, or is otherwise annoying. The State Noise Control Act defines noise as "...excessive undesirable sound...".

Outdoor Living Area: Outdoor spaces that are associated with residential land uses typically used for passive recreational activities or other noise-sensitive uses. Such spaces include patio areas, barbecue areas, jacuzzi areas, etc. associated with residential uses; outdoor patient recovery or resting areas associated with hospitals, convalescent hospitals, or rest homes; outdoor areas associated with places of worship which have a significant role in services or other noise-sensitive activities; and outdoor school facilities routinely used for educational purposes which may be adversely impacted by noise. Outdoor areas usually not included in this definition are: front yard areas, driveways, greenbelts, maintenance areas and storage areas associated with residential land uses; exterior areas at hospitals that are not used for patient activities; outdoor areas associated with places of worship and principally used for short-term social gatherings; and, outdoor areas associated with school facilities that are not typically associated with educational uses prone to adverse noise impacts (for example, school play yard areas).

Percent Noise Levels: See L(n).

Sound Level (Noise Level): The weighted sound pressure level obtained by use of a sound level meter having a standard frequency filter for attenuating part of the sound spectrum.

Sound Level Meter: An instrument, including a microphone, an amplifier, an output meter, and frequency weighting networks for the measurement and determination of noise and sound levels.

Single Event Noise Exposure Level (SENEL): The dB(A) level, which, if it lasted for one second, would produce the same A-weighted sound energy as the actual event.

3.7 Sound Propagation

As sound propagates from a source, it spreads geometrically. Sound from a small, localized source (i.e., a point source) radiates uniformly outward as it travels away from the source in a spherical pattern. The sound level attenuates at a rate of 6 dB per doubling of distance. The movement of vehicles down a roadway makes the source of the sound appear to propagate from a line (i.e., line source) rather than a point source. This line source results in the noise propagating from a roadway in a cylindrical spreading versus a spherical spreading that results from a point source. The sound level attenuates for a line source at a rate of 3 dB per doubling of distance.

As noise propagates from the source, it is affected by the ground and atmosphere. Noise models use hard site (reflective surfaces) and soft site (absorptive surfaces) to help calculate predicted noise levels. Hard site conditions assume no excessive ground absorption between the noise source and the receiver. Soft site conditions such as grass, soft dirt, or landscaping attenuate noise at a rate of 1.5 dB per doubling of distance. When added to the geometric spreading, the excess ground attenuation results in an overall

noise attenuation of 4.5 dB per doubling of distance for a line source and 7.5 dB per doubling of distance for a point source.

Research has demonstrated that atmospheric conditions can have a significant effect on noise levels when noise receivers are located at least 200 feet from a noise source. Wind, temperature, air humidity, and turbulence can further impact how far sound can travel.

4.0 Regulatory Setting

The proposed Project is located in the County of El Dorado, California, and noise regulations are addressed through the efforts of various federal, state, and local government agencies. The agencies responsible for regulating noise are discussed below.

4.1 Federal Regulations

The adverse impact of noise was officially recognized by the federal government in the Noise Control Act of 1972, which serves three purposes:

- Publicize noise emission standards for interstate commerce
- Assist state and local abatement efforts
- Promote noise education and research

The Federal Office of Noise Abatement and Control (ONAC) was originally tasked with implementing the Noise Control Act. However, it was eventually eliminated, leaving other federal agencies and committees to develop noise policies and programs. Some examples of these agencies are as follows: The Department of Transportation (DOT) assumed a significant role in noise control through its various agencies. The Federal Aviation Agency (FAA) is responsible for regulating noise from aircraft and airports. The Federal Highway Administration (FHWA) is responsible for regulating noise from the interstate highway system. The Occupational Safety and Health Administration (OSHA) is responsible for the prohibition of excessive noise exposure to workers. The Housing and Urban Development (HUD) is responsible for establishing noise regulations as it relates to exterior/interior noise levels for new HUD-assisted housing developments near high-noise areas.

The federal government advocates that local jurisdictions use their land use regulatory authority to arrange new development in such a way that “noise sensitive” uses are either prohibited from being constructed adjacent to a highway or that the developments are planned and constructed in such a manner that potential noise impacts are minimized.

Since the federal government has preempted the setting of standards for noise levels that can be emitted by the transportation source, the City is restricted to regulating the noise generated by the transportation system through nuisance abatement ordinances and land use planning.

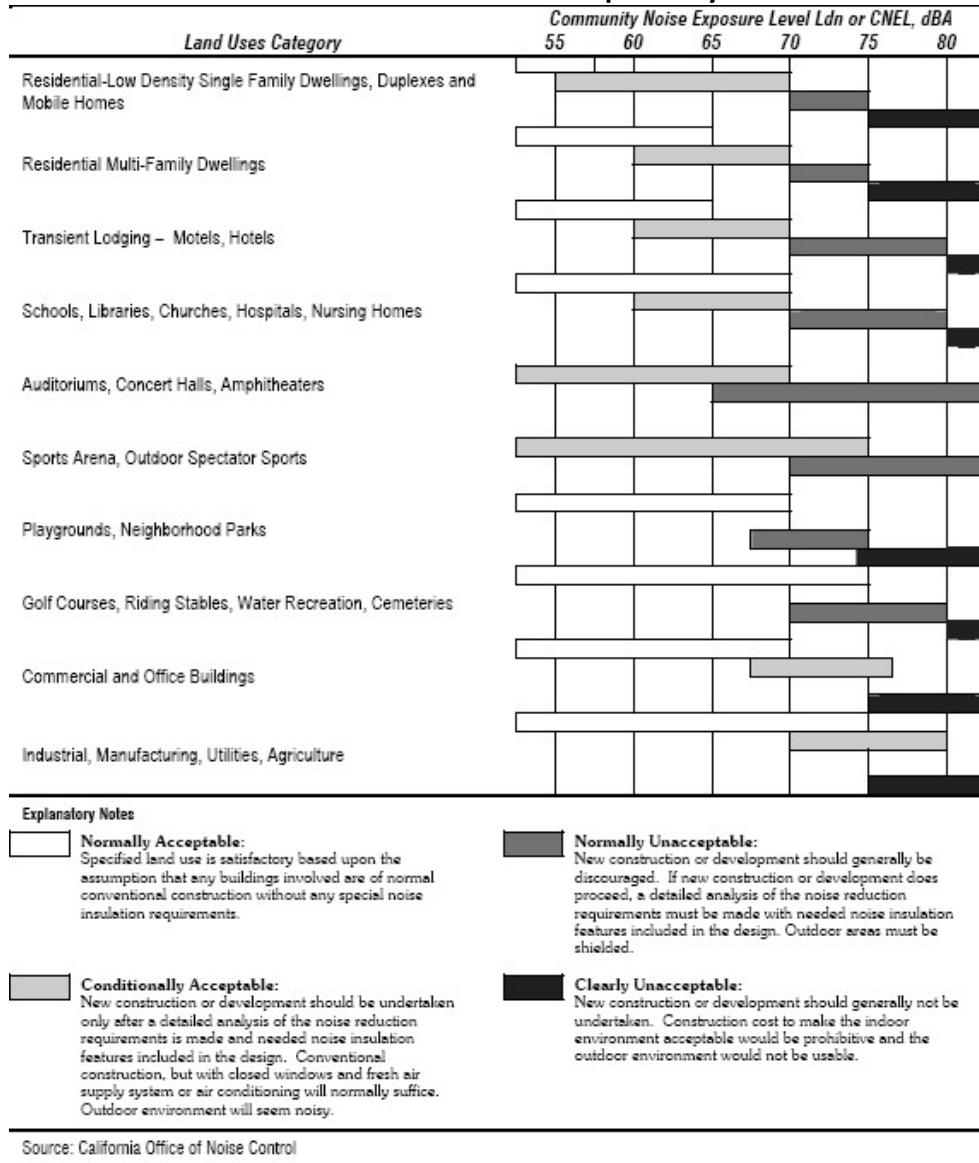
4.2 State Regulations

Established in 1973, the California Department of Health Services Office of Noise Control (ONC) was instrumental in developing regularity tools to control and abate noise for use by local agencies. One significant model is the “Land Use Compatibility for Community Noise Environments Matrix.” The matrix allows the local jurisdiction to clearly delineate the compatibility of sensitive uses with various incremental levels of noise.

The State of California has established noise insulation standards as outlined in Title 24 of the California Building Code (CBC), which in some cases requires acoustical analyses to outline exterior noise levels and

to ensure interior noise levels do not exceed the interior threshold. The state mandates that the legislative body of each county and City adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines published by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of normally acceptable, conditionally acceptable, normally unacceptable, and clearly unacceptable, as illustrated in Exhibit D.

Exhibit D: Land Use Compatibility Guidelines



4.3 County of El Dorado Noise Regulations

The County of El Dorado outlines their noise regulations and standards within the Municipal Code and the Noise Element of the County of El Dorado General Plan.

County of El Dorado General Plan

Applicable policies and standards governing environmental noise in the County are set forth in the General Noise Element. Section 130.37.060 of the El Dorado noise ordinance outlines the acceptable noise standards as 55 dBA exterior limit during daytime hours (7AM-7PM), 50 dBA during evening hours (7PM-10PM), and 45 dBA during nighttime hours (10PM-7AM). Therefore, the project must demonstrate compliance to the County's noise standards. In addition to the noise standards, the County has outlined goals, policies and implementation measures to reduce potential noise impacts and are presented below:

Goals, Policies, and Implementation Measures

Policies, goals and implementation program measures from the Noise Element that would mitigate potential impacts on noise include the following.

GOAL 6.5 – Acceptable Noise Levels

Ensure that County residents are not subjected to noise beyond acceptable levels.

Objective 6.5.1 – Protection of Noise-Sensitive Development

Protect existing noise-sensitive developments (e.g. hospitals, schools, churches, and residential) from new uses that would generate noise levels incompatible with those uses and conversely, discourage noise sensitive uses from locating near sources of high noise levels.

Policy 6.5.1.1: Where noise-sensitive land uses are proposed in areas exposed to existing or projected exterior noise levels exceeding the levels specified in Table 6-1 or the performance standards of Table 6-2, an acoustical analysis shall be required as part of the environmental review process so that noise mitigation may be included in the project design.

Policy 6.5.1.2: Where proposed non-residential land uses are likely to produce noise levels exceeding the performance standards of Table 6-2 at existing or planned noise-sensitive uses, an acoustical analysis shall be required as part of the environmental review process so that noise mitigation may be included in the project design.

Policy 6.5.1.3: Where noise mitigation measures are required to achieve the standards of Tables 6-1 and 6-2, the emphasis of such measures shall be placed upon site planning and project design. The use of noise barriers shall be considered a means of achieving the noise standards only after all other practical design-related noise mitigation measures have been integrated into the project and the noise barriers are not incompatible with the surroundings.

Policy 6.5.1.4: Existing dwellings and new single-family dwellings on legal lots of record, as of the date of adoption of this General Plan, are not subject to County review with respect to satisfaction of the standards of the Public Health, Safety, and Noise Element except in areas governed by the Airport Land Use Compatibility Plan for applicable airports. (See Objective 6.5.2.)

As a consequence, such dwellings may be constructed in other areas where noise levels exceed the standards of the Public Health, Safety, and Noise Element. It is not the responsibility of the County to ensure that such dwellings meet the noise standards of the Public Health, Safety, and Noise Element, or the noise standards imposed by lending agencies such as HUD, FHA and Cal Vet. If homes are located and constructed in accordance with the Public Health, Safety, and Noise Element, it is expected that the resulting exterior and interior noise levels will conform to the HUD/FHA/Cal Vet noise standards.

Policy 6.5.1.5: Setbacks shall be the preferred method of noise abatement for residential projects located along U.S. Highway 50. Noise walls shall be discouraged within the foreground viewshed of U.S. Highway 50 and shall be discouraged in favor of less intrusive noise mitigation (e.g., landscaped berms, setbacks) along other high volume roadways.

Policy 6.5.1.6: New noise-sensitive uses shall not be allowed where the noise level, due to non-transportation noise sources, will exceed the noise level standards of Table 6-2 unless effective noise mitigation measures have been incorporated into the development design to achieve those standards.

Policy 6.5.1.7: Noise created by new proposed non-transportation noise sources shall be mitigated so as not to exceed the noise level standards of Table 6-2 for noise-sensitive uses.

Policy 6.5.1.8: New development of noise sensitive land uses will not be permitted in areas exposed to existing or projected levels of noise from transportation noise sources which exceed the levels specified in Table 6-1 unless the project design includes effective mitigation measures to reduce exterior noise and noise levels in interior spaces to the levels specified in Table 6-1.

Policy 6.5.1.9: Noise created by new transportation noise sources, excluding airport expansion but including roadway improvement projects, shall be mitigated so as not to exceed the levels specified in Table 6-1 at existing noise-sensitive land uses.

Policy 6.5.1.10: To provide a comprehensive approach to noise control, the County shall:

- A. Develop and employ procedures to ensure that noise mitigation measures required pursuant to an acoustical analysis are implemented in the project review process and, as may be determined necessary, through the building permit process

- B. Develop and employ procedures to monitor compliance with the standards of the Noise Element after completion of projects where noise mitigation measures were required.
- C. The zoning ordinance shall be amended to provide that noise standards will be applied to ministerial projects with the exception of single-family residential building permits if not in areas governed by the Airport Land Use Compatibility Plan. (See Objective 6.5.2.)

**TABLE 6-1
 MAXIMUM ALLOWABLE NOISE EXPOSURE FOR TRANSPORTATION NOISE SOURCES**

Land Use	Outdoor Activity Areas ¹ L _{dn} /CNEL, dB	Interior Spaces	
		L _{dn} /CNEL, dB	L _{eq} dB ²
Residential	60 ³	45	--
Transient Lodging	60 ³	45	--
Hospitals, Nursing Homes	60 ³	45	--
Theaters, Auditoriums, Music Halls	--	--	35
Churches, Meeting Halls, Schools	60 ³	--	40
Office Buildings	--	--	45
Libraries, Museums	--	--	45
Playgrounds, Neighborhood Parks	70	--	--

Notes:
¹ In Communities and Rural Centers, where the location of outdoor activity areas is not clearly defined, the exterior noise level standard shall be applied to the property line of the receiving land use. For residential uses with front yards facing the identified noise source, an exterior noise level criterion of 65 dB L_{dn} shall be applied at the building facade, in addition to a 60 dB L_{dn} criterion at the outdoor activity area. In Rural Regions, an exterior noise level criterion of 60 dB L_{dn} shall be applied at a 100 foot radius from the residence unless it is within Platted Lands where the underlying land use designation is consistent with Community Region densities in which case the 65 dB L_{dn} may apply. The 100-foot radius applies to properties which are five acres and larger; the balance will fall under the property line requirement.
² As determined for a typical worst-case hour during periods of use.
³ Where it is not possible to reduce noise in outdoor activity areas to 60 dB L_{dn}/CNEL or less using a practical application of the best-available noise reduction measures, an exterior noise level of up to 65 dB L_{dn}/CNEL may be allowed provided that available exterior noise level reduction measures have been implemented and interior noise levels are in compliance with this table.

**TABLE 6-2
 NOISE LEVEL PERFORMANCE PROTECTION STANDARDS FOR NOISE SENSITIVE LAND USES AFFECTED BY NON-TRANSPORTATION SOURCES**

Noise Level Descriptor	Daytime 7 a.m. - 7 p.m.		Evening 7 p.m. - 10 p.m.		Night 10 p.m. - 7 a.m.	
	Community	Rural	Community	Rural	Community	Rural
Hourly L _{eq} , dB	55	50	50	45	45	40
Maximum level, dB	70	60	60	55	55	50

Notes:
 Each of the noise levels specified above shall be lowered by five dB for simple tone noises, noises consisting primarily of speech or music, or for recurring impulsive noises. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses (e.g., caretaker dwellings).
 The County can impose noise level standards which are up to 5 dB less than those specified above based upon determination of existing low ambient noise levels in the vicinity of the project site.
 In Community areas the exterior noise level standard shall be applied to the property line of the receiving property. In Rural Areas the exterior noise level standard shall be applied at a point 100' away from the residence. The above standards shall be measured only on property containing a noise sensitive land use as defined in Objective 6.5.1. This measurement standard may be amended to provide for measurement at the boundary of a recorded noise easement between all effected property owners and approved by the County.
 *Note: For the purposes of the Noise Element, transportation noise sources are defined as traffic on public roadways, railroad line operations and aircraft in flight. Control of noise from these sources is preempted by Federal and State regulations. Control of noise from facilities of regulated public facilities is preempted by California Public Utilities Commission (CPUC) regulations. All other noise sources are subject to local regulations. Non-transportation noise sources may include industrial operations, outdoor recreation facilities, HVAC units, schools, hospitals, commercial land uses, other outdoor land use, etc.

Policy 6.5.1.11: The standards outlined in Tables 6-3, 6-4, and 6-5 shall not apply to those activities associated with actual construction of a project as long as such construction occurs between the hours of 7 a.m. and 7 p.m., Monday through Friday, and 8 a.m. and 5 p.m. on weekends, and on federally-recognized holidays. Further, the standards

outlined in Tables 6-3, 6-4, and 6-5 shall not apply to public projects to alleviate traffic congestion and safety hazards.

Policy 6.5.1.12: When determining the significance of impacts and appropriate mitigation for new development projects, the following criteria shall be taken into consideration.

- A. Where existing or projected future traffic noise levels are less than 60 dBA Ldn at the outdoor activity areas of residential uses, an increase of more than 5 dBA Ldn caused by a new transportation noise source will be considered significant;
- B. Where existing or projected future traffic noise levels range between 60 and 65 dBA Ldn at the outdoor activity areas of residential uses, an increase of more than 3 dBA Ldn caused by a new transportation noise source will be considered significant; and
- C. Where existing or projected future traffic noise levels are greater than 65 dBA Ldn at the outdoor activity areas of residential uses, an increase of more than 1.5 dBA Ldn caused by a new transportation noise will be considered significant.

Policy 6.5.1.13: When determining the significance of impacts and appropriate mitigation to reduce those impacts for new development projects, including ministerial development, the following criteria shall be taken into consideration:

- A. In areas in which ambient noise levels are in accordance with the standards in Table 6-2, increases in ambient noise levels caused by new non transportation noise sources that exceed 5 dBA shall be considered significant; and
- B. In areas in which ambient noise levels are not in accordance with the standards in Table 6-2, increases in ambient noise levels caused by new non transportation noise sources that exceed 3 dBA shall be considered significant.

Policy 6.5.1.14: The County will adopt a noise ordinance to resolve neighborhood conflicts and to control unnecessary noise in the County. Examples of the types of noise sources that can be controlled through the use of a quantitative noise ordinance include noisy mechanical equipment (e.g., swimming pool pumps, HVAC units), and amplified music in commercial establishments.

Policy 6.5.1.15: The County will establish and maintain coordination among city, county, and state agencies involved in noise abatement and other agencies to reduce noise generated from sources outside the County's jurisdiction.

County of El Dorado – Noise Ordinance

Chapter 130.37.060.1 from the noise ordinance outlines the County's exterior noise limits as it relates to stationary noise sources.

Table 1: Allowable Noise Level¹

NOISE LEVEL PERFORMANCE STANDARDS FOR NOISE SENSITIVE LAND USES AFFECTED BY NON-TRANSPORTATION SOURCES						
NOISE LEVEL DESCRIPTOR	Daytime 7 a.m. - 7 p.m.		Evening 7 p.m. - 10 p.m.		Night 10 p.m. - 7 a.m.	
	Community/ Rural Centers	Rural Regions	Community/ Rural Centers	Rural Regions	Community/ Rural Centers	Rural Regions
Hourly Leq, dB	55	50	50	45	45	40
Maximum level, dB	70	60	60	55	55	50

1. Each of the noise levels specified above shall be lowered by five dBA for simple tone noises, noises consisting primarily of unamplified speech or music, or for recurring impulsive noises. These noise level standards do not apply to residential units established in conjunction with industrial or commercial uses, such as caretaker dwellings.
2. The Director can impose noise level standards which are up to five dBA less than those specified above, based upon a determination of existing low ambient noise levels in the vicinity of the project site.
3. The exterior noise level standard shall be applied as follows:
 - A. In Community Regions, at the property line of the receiving property;
 - B. In Rural Centers and Regions, at a point 100 feet away from a sensitive receptor or, if the sensitive receptor is within the Platted Lands Overlay (-PL) where the underlying land use designation is consistent with Community Region densities, at the property line of the receiving property or 100 feet away from the sensitive receptor, whichever is less; or
 - C. In all areas, at the boundary of a recorded noise easement between affected properties.

Construction

Section 130.37.020(l) states that construction is exempt as long as it is performed during daylight hours provided that all construction equipment shall be fitted with factory installed muffling devices and maintained in good working order.

Regulatory Summary

The land uses directly surrounding the project include commercial uses to the north, south, east, and west with residential approximately 400 feet to the south. Acceptable noise standards are 50 dBA exterior limit during daytime hours (7AM-7PM), 45 dBA during evening hours (7PM-10PM), and 40 dBA during nighttime hours (10PM-7AM). Therefore, the project must demonstrate compliance to the County’s most strict noise standard during operational hours 45 dBA.

5.0 Study Method and Procedure

The following section describes the noise modeling procedures and assumptions used for this assessment.

5.1 Noise Measurement Procedure and Criteria

MD conducted two (2) short-term noise measurement near the Project site, representing the noise level from the traffic conditions along Missouri Flat Road (see Appendix A for the field sheet data).

5.2 Stationary Noise Modeling

SoundPLAN (SP) acoustical modeling software was utilized to model future worst-case stationary noise impacts to the adjacent land uses. SP is capable of evaluating multiple stationary noise source impacts at various receiver locations. SP's software utilizes algorithms (based on the inverse square law and reference equipment noise level data) to calculate noise level projections. The software allows the user to input specific noise sources, spectral content, sound barriers, building placement, topography, and sensitive receptor locations.

The future worst-case noise level projections were modeled using referenced sound level data for the various stationary on-site sources (vacuums and car wash blowers at the exit). The SP model assumes a total of 15 vacuums and the dryer systems are operating simultaneously (worst-case scenario) when the noise will, in reality, be intermittent and lower in noise level. In addition, the modeling takes into account the louver, windows, and openings on the car wash tunnel based on the plan elevations. The reference vacuum equipment and blower system sound level data are provided in Appendix C.

All other noise-producing equipment (e.g., compressors, pumps) will be housed within mechanical equipment rooms.

The following outlines the project design features:

1. The Project will incorporate a 12 Sonny's blower system with the silencer package installed or equivalent to meet these acoustical benchmarks.

6.0 Existing Noise Environment

Two (2) 15-minute ambient noise measurement was taken at the project site to determine the existing ambient noise levels. Noise data indicates that traffic along Missouri Flat Road is the primary source of noise impacting the site and the surrounding area.

6.1 Short-Term Noise Measurement Results

The results of the 15-minute measurements are presented in Table 2.


Table 2: Short-Term Noise Measurement Data (dBA)

Location	Start Time	Stop Time	Leq	Lmax	Lmin	L(2)	L(8)	L(25)	L(50)	L(90)
ST-1	10:37 AM	10:52 AM	65.1	85.8	46.4	73.0	63.4	57.4	54.1	49.5
ST-2	10:13 AM	10:28 AM	63.6	72.0	55.2	69.3	66.4	64.2	62.3	59.5

Notes:
1. Short-term noise monitoring locations are illustrated in Exhibit E.

For this evaluation, MD has utilized the measured ambient noise level of 64 to 65 dBA Leq to estimate the noise levels at the adjacent sensitive receptors around the site using the inverse square law for comparison to the Project's projected noise levels.

Exhibit E
Measurement Locations

 = Short-Term
Monitoring Location



7.0 Future Noise Environment Impacts

This assessment analyzes future noise impacts as a result of the Project. The analysis details the estimated exterior noise levels. Stationary noise impacts are analyzed from the noise sources on-site such as dryers/blowers and vacuums.

7.1 Stationary Source Noise

The following sections outline the exterior noise levels associated with the proposed Project.

7.1.1 Noise Impacts to Off-Site Receptors Due to Stationary Sources

Sensitive receptors affected by Project operational noise include existing residences to the north. The worst-case stationary noise was modeled using SoundPLAN acoustical modeling software. Worst-case assumes the blowers, vacuums, and equipment are always operational when in reality, the noise will be intermittent and cycle on/off depending on the customer usage.

A total of three (3) residential receptors (R1 – R3) were modeled to evaluate the proposed Project’s operational impact. This study analyzes the Project only operational noise level projections and the Project plus ambient noise level projections, see Table 3 below.

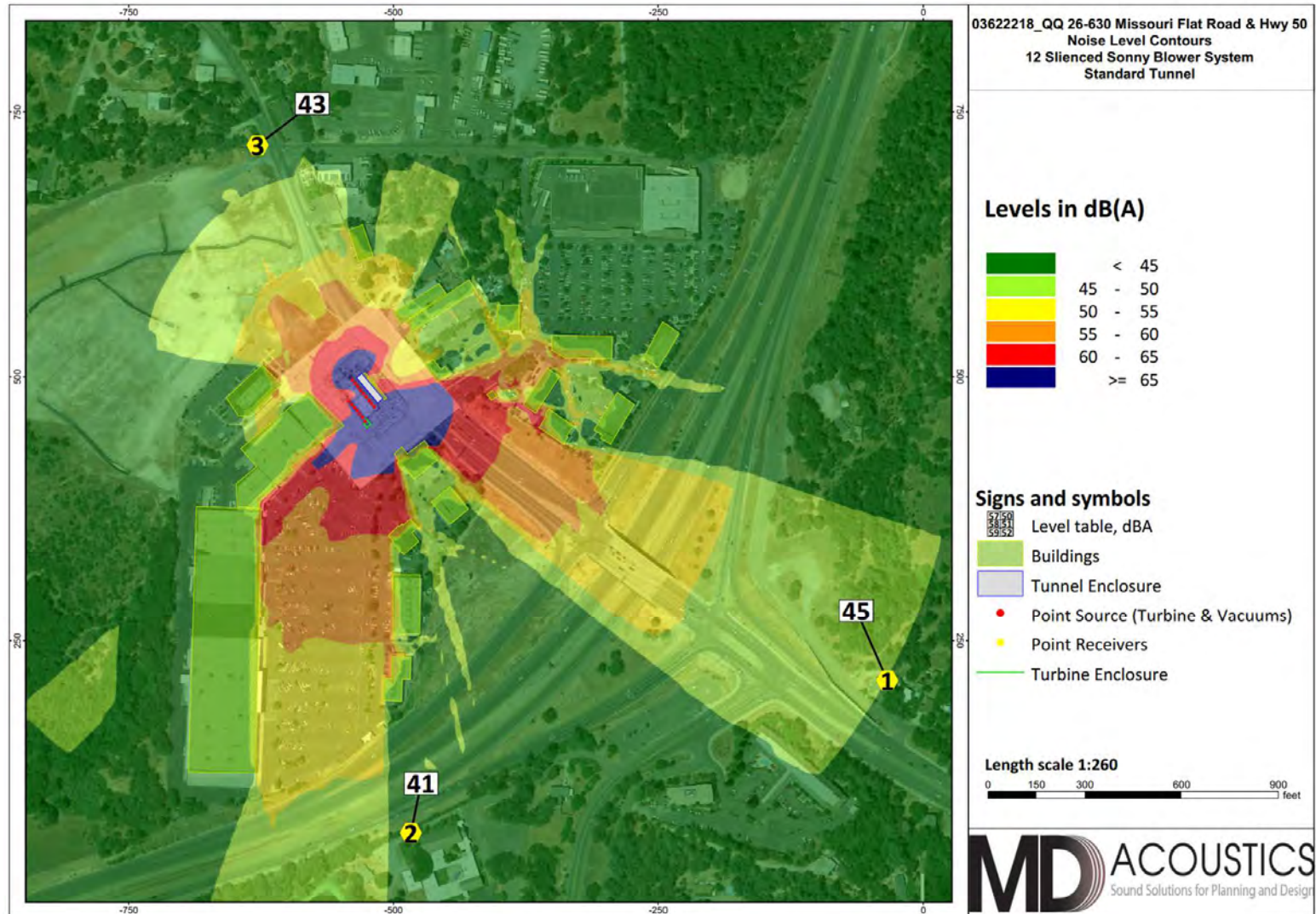
Table 3: Worst-Case Predicted Operational Noise Levels (dBA)

Receptor ¹	Existing Ambient Noise Level (dBA, Leq) ²	Project Noise Level (dBA, Leq) ³	Total Combined Noise Level (dBA, Leq)	Evening (7PM - 10PM) Non Transp. Noise Limit (dBA, Leq)	Change in Noise Level as Result of Project
1	64	45	65	45	0
2	71	42	64	45	0
3	61	43	64	45	0

Notes:
¹ Receptors 1 and 3 represent resident uses and receptor 2 represents the nearby hotel.
² See Appendix A for the ambient noise measurement.
³ See Exhibit F for the operational noise level projections at said receptors.

The model indicates that the project-only noise level at the existing residences to the north and southeast and the church to the south will be 41 to 45 dBA. The project-only level will meet the County’s noise limit for both daytime hours and evening hours according to the municipal code. The project noise will not increase the ambient noise at the sensitive receptors.

Exhibit F Operational Noise Level Contours



8.0 References

State of California General Plan Guidelines: 1998. Governor's Office of Planning and Research

County of El Dorado: General Plan

County of El Dorado: Municipal Code Chapter 130.27

Appendix A:
Field Measurement Data

CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study

15-Minute Continuous Noise Measurement Datasheet

Project Name: QQ 26-630 Missouri Flat Rd & Hwy 50 **Site Observations:**
Project: #/Name: 0362-2022-018 74°, sunny and clear, winds 5 mph, light to moderate traffic with a few loud vehicles and const. noise from
Site Address/Location: Missouri Flat Rd & Hwy 50 demolition of building
Date: 09/29/2022
Field Tech/Engineer: Dennis Jordan / Claire Pincock

Sound Meter: XL2, NTI **SN:** A2A-05967-E0
Settings: A-weighted, slow, 1-sec, 15-minute interval
Site Id: ST-1, ST-2

CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study



15-Minute Continuous Noise Measurement Datasheet - Cont.

Project Name: QQ 26-630 Missouri Flat Rd & Hwy 50

Site Address/Location: Missouri Flat Rd & Hwy 50

Site Id: ST-1, ST-2

Figure 1: ST-1 150 ft from Missouri Flat Rd



Figure 2: ST-2 60 ft from Missouri Flat Rd



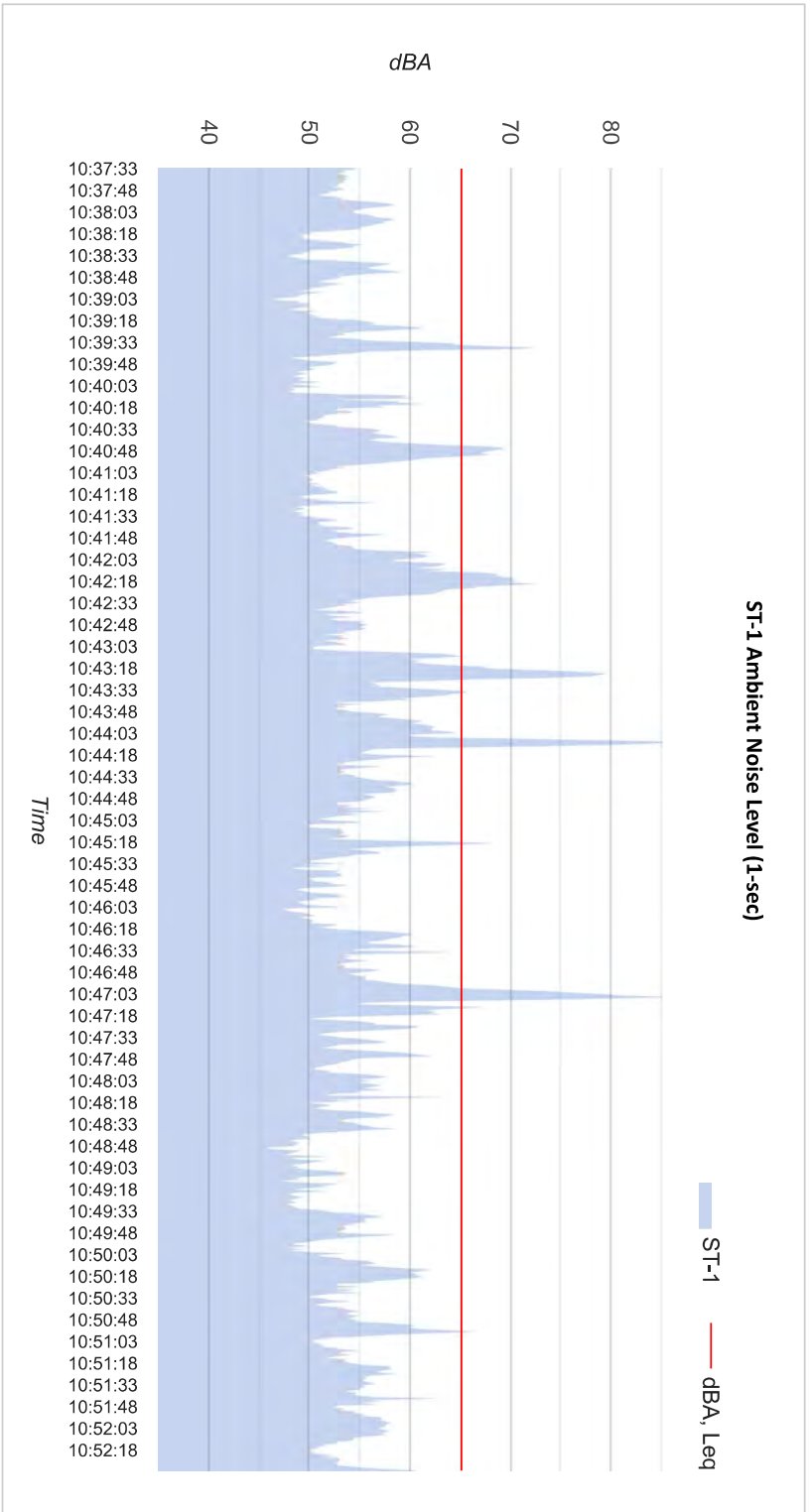
Table 1: Baseline Noise Measurement Summary

Location	Start	Stop	Leq	Lmax	Lmin	L2	L8	L25	L50	L90
ST-1	10:37 AM	10:52 AM	65.1	85.8	46.4	73	63.4	57.4	54.1	49.5
ST-2	10:13 AM	10:28 AM	63.6	72.0	55.2	69.3	66.4	64.2	62.3	59.5

CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study

15-Minute Continuous Noise Measurement Datasheet - Cont.

Project Name: QQ 26-630 Missouri Flat Rd & Hwy 50 **Site Topo:** Buildings 1 to 2 stories tall **Noise Source(s) w/ Distance:** Road Noise / 2 to 10 ft from meter
Site Address/Location: Missouri Flat Rd & Hwy 50 **Meteorological Cond.:** 74°, winds 5 mph, sunny and clear
Site Id: ST-1 **Ground Type:** Buildings, Cement, Asphalt and Vegetation

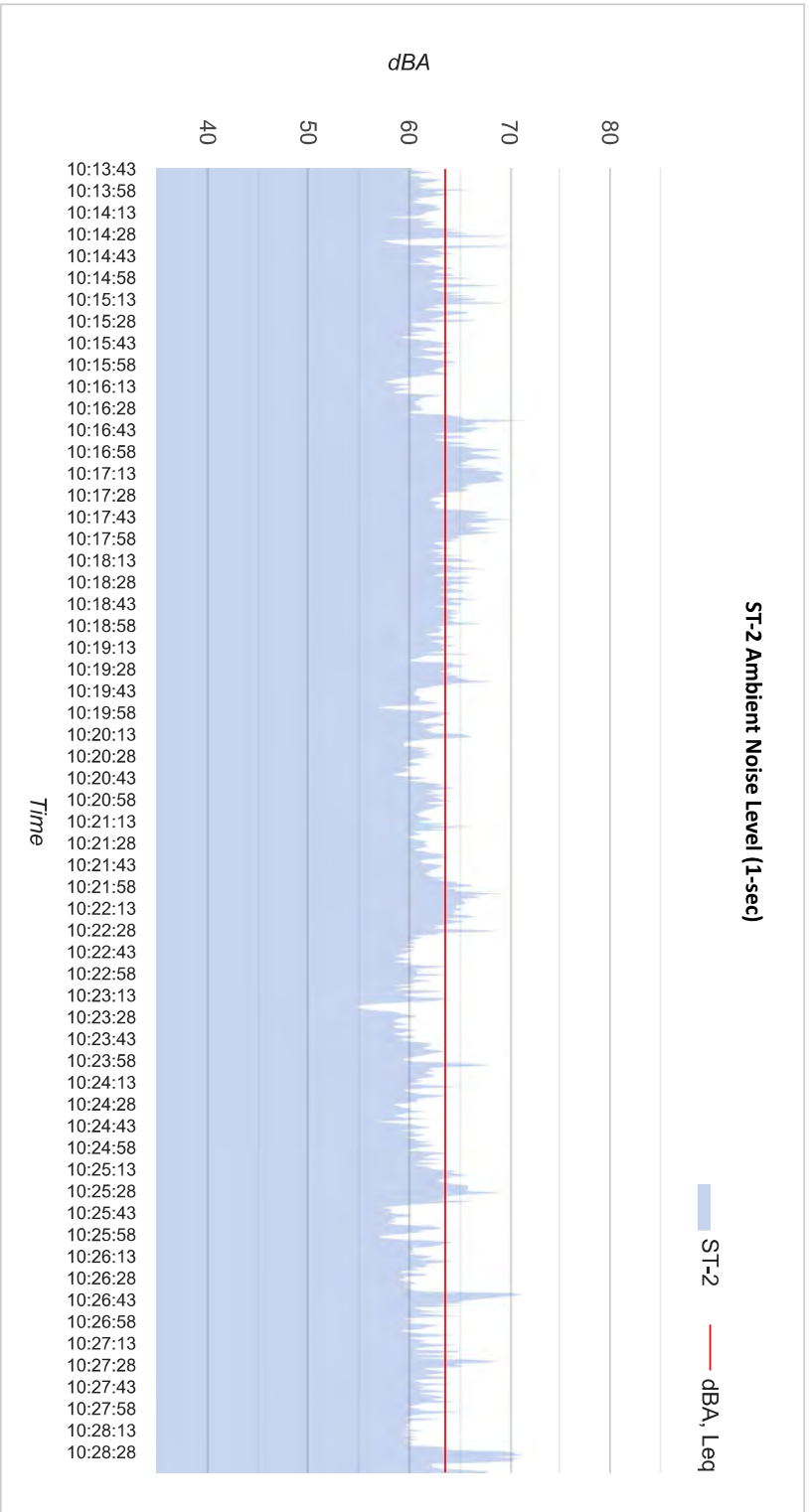


CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study



15-Minute Continuous Noise Measurement Datasheet - Cont.

Project Name: QQ 26-630 Missouri Flat Rd & Hwy 50
Site Address/Location: Missouri Flat Rd & Hwy 50
Site Id: ST-2
Topo: Buildings 1 to 2 stories tall
Meteorological Cond.: 74°, winds 5 mph, sunny and clear
Ground Type: Vegetation
Noise Source(s) w/ Distance: Const. & Road Noise / Demo of Building approx 100 ft, Rd 23



CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study



Appendix B:
SoundPLAN Input/Outputs

CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study

QQ 26-630 Missouri Flat Road & Hwy 50
Octave spectra of the sources in dB(A) - 001 - 12 Sonny - Standard: Outdoor SP

3

Name	Source type	I or A m,m ²	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	KI dB	KT dB	LwMax dB(A)	DO-Wall dB	Time histogram	Emission spectrum	63Hz dB(A)	125Hz dB(A)	250Hz dB(A)	500Hz dB(A)	1kHz dB(A)	2kHz dB(A)	4kHz dB(A)	8kHz dB(A)	16kHz dB(A)
001 - 12 Sonny - Standard-Facade 01	Area	28.22	101.4	57.0	46.4	60.9	0.0	0.0		3	100%/24h	29_Facade 01_	50.2	45.0	55.1	57.9	50.3	46.1	34.1	24.1	
001 - 12 Sonny - Standard-Facade 02	Area	185.69	98.6	57.0	44.3	67.0	0.0	0.0		3	100%/24h	30_Facade 02_	56.2	50.9	61.8	64.0	55.5	50.9	38.8	28.3	
001 - 12 Sonny - Standard-Facade 03	Area	21.90	90.2	57.0	39.6	53.0	0.0	0.0		3	100%/24h	31_Facade 03_	41.2	35.5	49.5	49.6	35.5	21.3	1.3	-13.0	
001 - 12 Sonny - Standard-Facade 04	Area	185.69	98.6	57.0	44.3	67.0	0.0	0.0		3	100%/24h	32_Facade 04_	56.2	50.9	61.8	64.0	55.5	50.9	38.8	28.3	
001 - 12 Sonny - Standard-Roof 01	Area	193.47	98.6	57.0	44.3	67.2	0.0	0.0		0	100%/24h	27_Roof 01_	56.4	51.1	61.9	64.1	55.6	51.0	38.9	28.4	
001 - 12 Sonny - Standard-Transmissive area 01	Area	15.61	89.8	0.0	89.8	101.8	0.0	0.0		3	100%/24h	63_Transmissive area 01_	69.4	77.5	93.7	99.7	94.6	84.6	67.4	52.0	
001 - 12 Sonny - Standard-Transmissive area 02	Area	9.29	101.5	0.0	101.5	111.2	0.0	0.0		3	100%/24h	64_Transmissive area 02_	75.4	84.2	96.4	105.2	106.6	106.3	97.5	85.7	
Turbine	Point				72.6	72.6	0.0	0.0		0	100%/24h	Vacutech Turbine	47.3	57.5	54.5	51.9	55.8	59.5	66.1	69.3	65.0
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

1

QQ 26-630 Missouri Flat Road & Hwy 50
Octave spectra of the sources in dB(A) - 001 - 12 Sonny - Standard: Outdoor SP

3

Name	Source type	I or A m,m ²	Li dB(A)	R'w dB	L'w dB(A)	Lw dB(A)	KI dB	KT dB	LwMax dB(A)	DO-Wall dB	Time histogram	Emission spectrum	63Hz dB(A)	125Hz dB(A)	250Hz dB(A)	500Hz dB(A)	1kHz dB(A)	2kHz dB(A)	4kHz dB(A)	8kHz dB(A)	16kHz dB(A)
Vac	Point				81.0	81.0	0.0	0.0		0	100%/24h	Vacutech - in car	62.4	69.2	75.8	72.6	71.3	73.2	72.6	67.8	59.2

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

	MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA	2
--	---	---

**QQ 26-630 Missouri Flat Road & Hwy 50
Contribution spectra - 001 - 12 Sonny - Standard: Outdoor SP**

23

Source	Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz			
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)			
Receiver -34,212 FIG Lr,lim		dB(A)	Leq,d 45.0 dB(A) Sigma(Leq,d) 0.0 dB(A)																													
001 - 12 Sonny - Standard-Facade 01	Leq,d	-4.2					-8.6			-21.0			-13.4			-8.4			-14.0			-21.2					-45.8					
001 - 12 Sonny - Standard-Facade 02	Leq,d	-4.3					-6.4			-19.8			-12.1			-12.0			-19.5			-28.3					-54.5					
001 - 12 Sonny - Standard-Facade 03	Leq,d	-22.2					-24.2			-38.7			-28.6			-31.4			-47.4			-66.8										
001 - 12 Sonny - Standard-Facade 04	Leq,d	-6.7					-8.3			-22.2			-15.6			-15.2			-24.5			-34.1					-61.2					
001 - 12 Sonny - Standard-Roof 01	Leq,d	-4.5					-10.4			-20.8			-10.4			-8.7			-16.6			-24.0					-49.0					
001 - 12 Sonny - Standard-Transmissive area 01	Leq,d	17.5					2.7			0.8			11.2			14.9			9.5			-4.6					-37.5					
001 - 12 Sonny - Standard-Transmissive area 02	Leq,d	44.9					17.1			18.5			25.9			36.8			42.3			39.5					18.0					-39.8
Turbine	Leq,d	-10.0					-34.0	-27.0	-20.1	-22.5	-17.3	-16.6	-21.3	-22.6	-23.7	-26.5	-28.9	-27.6	-26.8	-26.8	-24.7	-23.0	-24.7	-28.4	-27.9	-33.0	-42.7	-56.5	-78.4			
Vac	Leq,d	7.9	-22.4	-19.5	-12.7	-8.8	-5.9	-2.0	-6.6	-5.8	-3.0	-1.8	-0.9	-5.0	-6.8	-3.0	-9.3	-4.9	-4.7	-7.9	-4.7	-6.9	-10.0	-14.7	-21.8	-34.3	-51.0	-77.3				
Vac	Leq,d	7.7	-22.5	-19.6	-12.8	-8.9	-6.1	-2.3	-6.8	-6.0	-3.3	-1.7	-0.8	-5.0	-6.8	-3.0	-9.2	-5.7	-5.6	-8.8	-5.6	-7.9	-11.1	-15.8	-22.8	-35.3	-52.0	-78.2				
Vac	Leq,d	7.5	-22.5	-19.7	-12.9	-9.1	-6.3	-2.5	-7.0	-6.3	-3.6	-1.6	-0.8	-4.9	-6.7	-2.9	-9.1	-6.5	-6.4	-9.6	-6.5	-8.8	-12.0	-16.7	-23.8	-36.3	-52.9	-78.9				
Vac	Leq,d	8.2	-22.4	-19.5	-12.6	-8.7	-5.8	-1.9	-6.5	-5.6	-2.8	-1.8	-0.9	-5.1	-6.9	-3.1	-9.3	-4.1	-3.8	-6.9	-3.6	-5.7	-8.9	-13.5	-20.6	-33.1	-49.9	-76.3				
Vac	Leq,d	6.1	-23.1	-20.2	-13.4	-9.6	-6.8	-3.0	-8.0	-7.4	-4.8	-2.7	-2.4	-7.2	-9.9	-6.8	-13.8	-7.2	-7.2	-10.4	-7.3	-9.5	-12.8	-17.6	-24.7	-37.3	-54.1	-80.5				
Vac	Leq,d	4.9	-23.2	-20.4	-13.5	-9.8	-7.0	-3.4	-8.4	-7.9	-5.6	-3.4	-3.4	-8.4	-11.4	-8.5	-15.7	-9.9	-10.1	-13.6	-10.7	-13.2	-16.7	-21.7	-29.0	-41.8	-58.7	-85.2				
Vac	Leq,d	3.4	-23.5	-20.7	-14.0	-10.3	-7.7	-4.2	-9.5	-9.2	-7.1	-5.0	-5.2	-10.4	-13.5	-10.7	-17.9	-12.9	-13.3	-16.9	-14.1	-16.7	-20.3	-25.4	-32.8	-45.5	-62.4	-89.0				
Vac	Leq,d	2.6	-23.6	-20.9	-14.2	-10.7	-8.2	-4.8	-10.2	-10.0	-8.0	-5.9	-6.1	-11.2	-14.3	-11.5	-18.7	-14.2	-14.6	-18.2	-15.5	-18.1	-21.7	-26.9	-34.3	-47.0	-63.9	-90.5				
Vac	Leq,d	2.3	-23.5	-20.9	-14.3	-10.8	-8.4	-5.1	-10.5	-10.4	-8.4	-6.2	-6.3	-11.5	-14.5	-11.7	-18.9	-14.7	-15.1	-18.8	-16.0	-18.7	-22.3	-27.5	-35.0	-47.7	-64.7	-91.4				
Vac	Leq,d	10.3	-21.0	-18.0	-11.0	-7.0	-4.0	0.0	-5.6	-4.7	-1.8	-1.7	-0.9	-5.0	-6.8	-3.0	-9.2	-0.7	-0.1	-2.8	0.9	-0.7	-3.3	-7.4	-13.7	-25.5	-41.4	-66.8				
Vac	Leq,d	8.6	-22.4	-19.5	-12.6	-8.7	-5.7	-1.8	-6.4	-5.5	-2.7	-1.9	-1.0	-5.2	-7.0	-3.2	-9.4	-3.1	-2.7	-5.6	-2.2	-4.1	-7.1	-11.6	-18.5	-30.9	-47.6	-74.0				
Vac	Leq,d	10.1	-21.1	-18.1	-11.2	-7.2	-4.2	-0.2	-5.9	-5.0	-2.1	-1.9	-1.1	-5.2	-7.0	-3.2	-9.4	-0.9	-0.4	-3.1	0.7	-1.0	-3.7	-7.8	-14.3	-26.3	-42.5	-68.4				
Vac	Leq,d	10.5	-20.8	-17.8	-10.8	-6.8	-3.8	0.1	-5.3	-4.4	-1.5	-1.5	-0.7	-4.8	-6.6	-2.8	-9.0	-0.5	0.1	-2.6	1.2	-0.4	-3.0	-6.9	-13.1	-24.7	-40.4	-65.3				
Vac	Leq,d	10.5	-20.8	-17.8	-10.9	-6.9	-3.9	0.1	-5.4	-4.5	-1.6	-1.6	-0.7	-4.9	-6.7	-2.9	-9.1	-0.6	0.0	-2.7	1.1	-0.5	-3.1	-7.1	-13.3	-25.0	-40.7	-65.8				
Vac	Leq,d	10.4	-20.9	-17.9	-10.9	-6.9	-3.9	0.0	-5.5	-4.6	-1.7	-1.7	-0.8	-5.0	-6.8	-2.9	-9.2	-0.6	-0.1	-2.7	1.0	-0.6	-3.2	-7.2	-13.5	-25.2	-41.0	-66.3				
Receiver -483,69 FIG Lr,lim		dB(A)	Leq,d 41.5 dB(A) Sigma(Leq,d) 0.0 dB(A)																													
001 - 12 Sonny - Standard-Facade 01	Leq,d	-4.3					-9.1			-20.1			-11.0			-8.9			-16.2			-23.3					-41.2					-89.8
001 - 12 Sonny - Standard-Facade 02	Leq,d	-6.6					-9.2			-21.7			-13.5			-13.6			-23.0			-31.0					-53.1					

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

**QQ 26-630 Missouri Flat Road & Hwy 50
Contribution spectra - 001 - 12 Sonny - Standard: Outdoor SP**

23

Source	Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	
001 - 12 Sonny - Standard-Facade 03	Leq,d	-22.3					-25.0			-38.6			-28.1			-30.4			-45.9				-63.9			-95.1				
001 - 12 Sonny - Standard-Facade 04	Leq,d	1.4					-2.9			-14.5			-5.2			-3.4			-11.4				-18.5			-38.0			-86.4	
001 - 12 Sonny - Standard-Roof 01	Leq,d	-2.0					-8.5			-18.3			-7.8			-6.0			-13.8				-20.6			-41.0			-88.0	
001 - 12 Sonny - Standard-Transmissive area 01	Leq,d	18.0					1.3			0.6			11.3			15.4			10.5				-2.3			-30.3			-82.8	
001 - 12 Sonny - Standard-Transmissive area 02	Leq,d	41.4					16.0			18.3			28.6			36.6			37.6				34.1			19.2			-32.1	
Turbine	Leq,d	-7.0				-31.9	-25.0	-18.2	-20.4	-17.9	-15.3	-20.1	-21.4	-22.7	-25.6	-24.5	-23.2	-22.5	-22.4	-20.1	-18.7	-20.0	-18.5	-16.7	-20.2	-27.6	-38.0	-54.9	-81.7	
Vac	Leq,d	11.5	-19.5	-16.7	-9.9	-6.2	-3.4	0.3	-3.7	-3.0	-0.3	1.2	2.1	-2.0	-3.8	0.1	-6.1	-2.3	-1.9	-4.7	-0.9	-2.5	0.9	-2.5	-7.7	-17.7	-30.7	-51.6	-80.0	
Vac	Leq,d	11.4	-19.4	-16.6	-9.9	-6.1	-3.4	0.3	-3.6	-2.9	-0.3	1.3	2.2	-1.9	-3.7	0.2	-6.0	-2.3	-1.9	-4.7	-1.0	-2.5	0.4	-3.0	-8.1	-18.0	-30.9	-51.5	-79.7	
Vac	Leq,d	11.4	-19.4	-16.6	-9.8	-6.1	-3.4	0.4	-3.6	-2.9	-0.2	1.4	2.3	-1.8	-3.6	0.3	-5.9	-2.4	-2.0	-4.8	-1.1	-2.6	0.3	-3.0	-8.1	-18.0	-30.9	-51.4	-79.5	
Vac	Leq,d	11.2	-19.5	-16.7	-9.9	-6.2	-3.4	0.3	-3.7	-3.0	-0.3	1.1	2.0	-2.1	-3.8	0.0	-6.1	-2.3	-1.9	-4.7	-0.9	-2.5	-1.0	-4.5	-9.9	-20.1	-33.3	-54.0	-81.9	
Vac	Leq,d	11.5	-21.0	-18.4	-11.8	-8.2	-5.6	-2.0	-6.1	-5.5	-0.2	3.4	4.0	-0.4	-2.6	1.0	-5.4	-2.8	-2.6	-5.5	-1.9	-3.6	-1.2	-4.8	-10.2	-20.6	-34.2	-55.9	-85.4	
Vac	Leq,d	11.4	-20.5	-17.8	-11.1	-7.4	-4.7	-1.1	-5.3	-4.7	-2.2	3.3	4.2	-0.1	-2.3	1.2	-5.2	-2.4	-2.1	-5.0	-1.4	-3.0	-4.8	-8.5	-13.9	-24.0	-37.1	-57.9	-86.4	
Vac	Leq,d	12.0	-19.9	-17.1	-10.4	-6.6	-3.9	-0.2	-4.3	-3.5	0.7	3.2	4.1	0.0	-2.1	1.6	-4.8	-1.6	-1.3	-4.1	-0.5	-2.1	-4.0	-7.6	-12.9	-23.0	-35.9	-56.6	-85.1	
Vac	Leq,d	11.9	-20.0	-17.2	-10.4	-6.6	-3.9	-0.2	-4.3	-3.6	0.7	3.2	4.0	-0.1	-2.2	1.5	-4.9	-1.6	-1.3	-4.1	-0.4	-2.1	-4.0	-7.5	-12.9	-23.0	-36.0	-56.8	-85.4	
Vac	Leq,d	11.9	-20.0	-17.2	-10.4	-6.7	-3.9	-0.2	-4.3	-3.6	0.7	3.1	4.0	-0.1	-2.2	1.5	-4.8	-1.6	-1.2	-4.1	-0.4	-2.0	-3.9	-7.5	-12.9	-23.0	-36.1	-57.0	-85.9	
Vac	Leq,d	11.7	-21.1	-18.5	-11.9	-8.3	-5.6	-2.1	-6.1	-5.6	-0.2	3.4	4.0	-0.3	-2.5	1.1	-5.4	-2.9	-2.7	-5.6	-2.1	-3.8	1.4	-2.1	-7.5	-17.9	-31.5	-53.4	-83.4	
Vac	Leq,d	11.2	-19.6	-16.8	-10.0	-6.2	-3.4	0.3	-3.7	-3.0	-0.3	1.1	2.0	-2.1	-3.9	0.0	-6.2	-2.3	-1.9	-4.7	-0.9	-2.5	-1.1	-4.6	-10.0	-20.2	-33.4	-54.2	-82.3	
Vac	Leq,d	11.1	-19.7	-16.8	-10.0	-6.2	-3.5	0.3	-3.7	-3.0	-0.3	1.0	1.9	-2.2	-4.0	-0.1	-6.3	-2.3	-1.9	-4.6	-0.9	-2.5	-1.1	-4.6	-10.0	-20.3	-33.6	-54.5	-82.8	
Vac	Leq,d	10.4	-20.4	-17.7	-11.0	-7.3	-4.5	-0.8	-4.7	-4.0	-1.2	1.2	2.1	-2.0	-3.8	0.1	-6.1	-3.2	-2.9	-5.7	-2.1	-3.7	-4.6	-8.2	-13.6	-23.6	-36.4	-56.6	-84.1	
Vac	Leq,d	11.4	-19.6	-16.8	-10.0	-6.3	-3.6	0.1	-3.9	-3.3	-0.6	1.1	2.0	-2.1	-3.9	0.0	-6.2	-2.7	-2.3	-5.0	-1.3	-2.9	1.7	-1.8	-7.1	-17.3	-30.8	-52.2	-81.3	
Vac	Leq,d	13.0	-19.6	-16.9	-10.1	-6.4	-3.7	0.0	-4.0	-3.3	1.2	3.5	4.4	0.3	-1.5	2.4	-3.8	-0.7	-0.3	-3.1	0.6	-1.0	2.1	-1.4	-6.7	-16.9	-30.3	-51.7	-80.7	

Receiver -628,719 Ft G Lr,lim dB(A) Leq,d 43.3 dB(A) Sigma(Leq,d) 0.0 dB(A)

001 - 12 Sonny - Standard-Facade 01	Leq,d	-9.1					-10.8			-23.6			-17.9			-17.8			-26.9				-34.3			-53.6			-86.9	
001 - 12 Sonny - Standard-Facade 02	Leq,d	5.1					1.8			-10.2			-3.6			-0.1			-7.3				-13.6			-31.8			-62.8	
001 - 12 Sonny - Standard-Facade 03	Leq,d	-5.4					-11.3			-21.8			-11.4			-8.9			-20.7				-35.7			-61.9			-95.6	
001 - 12 Sonny - Standard-Facade 04	Leq,d	0.3					-1.8			-13.5			-8.1			-7.2			-15.7				-23.6			-43.6			-76.8	
001 - 12 Sonny - Standard-Roof 01	Leq,d	2.5					-5.0			-13.7			-3.1			-1.1			-9.1				-14.6			-32.3			-64.0	

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

2

**QQ 26-630 Missouri Flat Road & Hwy 50
Contribution spectra - 001 - 12 Sonny - Standard: Outdoor SP**

23

Source	Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
001 - 12 Sonny - Standard-Transmissive area 01	Leq,d	42.9					17.5			21.1			30.9			40.0			38.6			27.7			3.9				-30.7
001 - 12 Sonny - Standard-Transmissive area 02	Leq,d	30.5					13.1			13.3			18.4			24.7			26.3			24.5			9.3				-25.4
Turbine	Leq,d	-0.3				-23.0	-19.5	-12.8	-14.7	-12.2	-11.5	-17.6	-18.8	-19.9	-22.4	-24.7	-17.9	-16.5	-13.7	-10.8	-9.6	-10.0	-13.1	-10.2	-10.2	-14.8	-21.2	-32.1	-51.5
Vac	Leq,d	20.1	-15.0	-12.0	-5.0	-1.0	2.0	6.0	3.1	4.1	7.0	4.8	5.7	1.7	-0.1	3.8	0.0	8.7	9.5	7.1	12.4	11.5	10.2	8.2	5.0	-1.9	-10.3	-24.4	-43.5
Vac	Leq,d	18.7	-15.1	-12.1	-5.1	-1.1	1.9	5.9	3.0	3.9	6.9	4.7	5.6	1.5	-0.2	3.7	-2.4	6.3	7.0	4.7	10.6	9.7	8.4	6.4	3.2	-3.8	-12.2	-26.4	-45.4
Vac	Leq,d	20.0	-15.2	-12.2	-5.2	-1.2	1.8	5.8	2.8	3.8	6.7	4.5	5.5	1.4	-0.3	6.0	-0.1	8.6	9.3	7.0	12.3	11.4	10.1	8.0	4.8	-2.2	-10.7	-25.0	-44.4
Vac	Leq,d	20.3	-14.9	-11.9	-4.9	-0.9	2.1	6.1	3.3	4.2	7.2	4.9	5.8	1.8	0.1	4.0	0.1	8.8	9.6	7.2	12.5	11.7	10.4	8.4	5.2	-1.6	-10.0	-24.0	-42.8
Vac	Leq,d	16.4	-16.7	-13.8	-7.0	-3.1	-0.3	3.5	0.6	1.4	4.2	4.5	5.0	0.5	-1.8	1.8	-4.6	2.5	3.2	0.8	8.1	7.3	5.9	3.8	0.6	-6.3	-14.6	-28.4	-46.6
Vac	Leq,d	19.4	-14.5	-11.5	-4.5	-0.5	2.5	6.5	3.8	4.7	7.7	5.4	6.3	2.2	0.5	4.4	-1.7	7.0	7.8	5.5	11.1	10.3	9.1	7.1	4.1	-2.5	-10.4	-23.7	-41.4
Vac	Leq,d	19.6	-14.3	-11.3	-4.3	-0.3	2.7	6.6	4.0	4.9	7.9	5.5	6.5	2.4	0.7	4.6	-1.5	7.1	7.9	5.6	11.2	10.5	9.2	7.3	4.4	-2.1	-9.9	-23.0	-40.5
Vac	Leq,d	19.2	-14.2	-11.2	-4.2	-0.2	2.8	6.8	4.1	5.1	8.0	5.6	6.6	2.5	0.8	4.7	-1.4	7.3	8.1	5.8	10.1	9.4	8.3	6.5	3.8	-2.5	-9.9	-22.7	-39.8
Vac	Leq,d	19.4	-14.1	-11.1	-4.1	-0.1	2.9	6.9	4.3	5.2	8.2	5.8	6.7	2.7	0.9	4.9	-1.2	7.4	8.2	5.9	10.3	9.6	8.5	6.7	4.0	-2.1	-9.5	-22.1	-39.0
Vac	Leq,d	15.2	-16.8	-13.9	-7.1	-3.3	-0.5	3.3	0.3	1.0	3.7	4.0	4.4	-0.4	-2.9	0.3	-6.4	0.6	1.0	-1.8	6.8	5.8	4.2	1.8	-1.9	-9.4	-18.8	-34.0	-54.2
Vac	Leq,d	20.4	-14.7	-11.7	-4.8	-0.8	2.2	6.2	3.4	4.4	7.3	5.0	6.0	1.9	0.2	4.1	0.2	8.9	9.7	7.4	12.6	11.8	10.5	8.5	5.4	-1.4	-9.6	-23.5	-42.1
Vac	Leq,d	20.5	-14.6	-11.6	-4.6	-0.6	2.3	6.3	3.6	4.5	7.5	5.2	6.1	2.0	0.3	4.2	0.4	9.0	9.8	7.5	12.7	11.9	10.7	8.7	5.6	-1.1	-9.3	-22.9	-41.3
Vac	Leq,d	10.7	-17.1	-14.3	-7.6	-3.9	-1.3	2.2	-1.3	-0.9	1.4	1.7	1.6	-3.4	-6.3	-3.3	-10.4	-4.8	-4.9	-8.1	-4.8	-6.5	-8.7	-11.6	-15.5	-23.0	-32.0	-46.5	-65.9
Vac	Leq,d	11.4	-17.0	-14.2	-7.5	-3.7	-1.1	2.5	-0.8	-0.3	2.1	2.3	2.3	-2.7	-5.6	-2.5	-9.5	-3.5	-3.6	-6.7	-3.3	-5.0	-7.1	-10.0	-13.8	-21.3	-30.2	-44.6	-63.9
Vac	Leq,d	12.2	-16.9	-14.1	-7.3	-3.5	-0.8	2.9	-0.3	0.3	2.8	3.1	3.2	-1.8	-4.6	-1.5	-8.4	-2.0	-1.9	-4.9	-1.4	-3.0	-5.0	-7.8	-11.6	-19.0	-27.8	-42.2	-61.3
Receiver -1175,666 FIG Lr,lim dB(A) Leq,d 33.5 dB(A) Sigma(Leq,d) 0.0 dB(A)																													
001 - 12 Sonny - Standard-Facade 01	Leq,d	-18.5					-20.2			-33.9			-27.0			-27.0			-36.3			-46.0			-75.2				
001 - 12 Sonny - Standard-Facade 02	Leq,d	-7.2					-8.9			-22.5			-15.3			-16.3			-26.5			-36.8			-66.0				
001 - 12 Sonny - Standard-Facade 03	Leq,d	-14.1					-19.0			-32.6			-20.3			-18.2			-30.7			-48.2			-84.2				
001 - 12 Sonny - Standard-Facade 04	Leq,d	-0.5					-4.4			-17.5			-8.7			-5.2			-11.7			-19.7			-47.4				
001 - 12 Sonny - Standard-Roof 01	Leq,d	-6.2					-11.7			-22.4			-12.1			-10.5			-18.6			-26.9			-54.6				
001 - 12 Sonny - Standard-Transmissive area 01	Leq,d	33.1					9.3			9.3			21.8			30.5			28.5			15.0			-18.6				-89.1
001 - 12 Sonny - Standard-Transmissive area 02	Leq,d	19.5					2.1			0.6			8.6			14.4			15.5			11.8			-13.3				-83.3
Turbine	Leq,d	-12.8				-37.7	-31.1	-24.6	-27.4	-25.2	-24.8	-29.9	-31.4	-32.9	-36.0	-38.6	-37.5	-24.2	-22.8	-20.5	-20.3	-22.1	-27.3	-27.5	-34.0	-45.9	-63.3	-90.7	
Vac	Leq,d	4.8	-25.1	-22.3	-15.5	-11.8	-9.1	-5.4	-9.9	-9.3	-6.7	-3.4	-2.5	-6.7	-9.0	-5.6	-12.4	-10.5	-10.6	-14.1	-11.3	-14.0	-17.9	-23.6	-32.0	-46.6	-66.4	-97.1	

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

3

**QQ 26-630 Missouri Flat Road & Hwy 50
Contribution spectra - 001 - 12 Sonny - Standard: Outdoor SP**

23

Source	Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz
		dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Vac	Leq,d	4.6	-25.3	-22.5	-15.8	-12.0	-9.3	-5.6	-10.1	-9.5	-6.9	-3.4	-2.6	-6.7	-9.2	-5.8	-12.6	-10.8	-10.9	-14.4	-11.6	-14.4	-18.3	-24.0	-32.5	-47.1	-67.0	-97.9	
Vac	Leq,d	7.0	-25.4	-22.7	-15.9	-12.2	-9.5	-5.8	-10.3	-9.6	-7.0	-3.4	-2.6	-6.8	-9.3	-5.9	-9.6	-3.2	-2.8	-5.8	-2.4	-4.5	-7.8	-12.9	-20.8	-35.1	-54.8	-85.7	
Vac	Leq,d	4.9	-24.9	-22.1	-15.4	-11.6	-8.9	-5.2	-9.8	-9.1	-6.5	-3.3	-2.5	-6.7	-8.8	-5.5	-12.2	-10.2	-10.4	-13.9	-11.1	-13.8	-17.6	-23.3	-31.7	-46.2	-65.9	-96.6	
Vac	Leq,d	9.7	-24.0	-21.0	-14.1	-10.1	-7.2	-3.2	-8.2	-7.3	-1.8	-0.9	0.0	-4.2	-6.1	-2.3	-8.5	-1.0	-0.5	-3.3	0.2	-1.8	-4.9	-9.8	-17.4	-31.2	-50.2	-80.2	
Vac	Leq,d	10.2	-22.4	-19.4	-12.4	-8.5	-5.5	-1.5	-7.9	-7.0	-4.1	-0.8	0.0	-4.2	-6.0	-2.2	-8.5	0.0	0.4	-2.4	1.2	-0.8	-3.9	-8.7	-16.3	-30.0	-48.9	-78.7	
Vac	Leq,d	10.4	-22.4	-19.4	-12.4	-8.4	-5.4	-1.5	-7.8	-6.9	-1.6	-0.8	0.1	-4.1	-5.9	-2.2	-8.4	0.0	0.5	-2.3	1.2	-0.7	-3.8	-8.6	-16.1	-29.8	-48.6	-78.3	
Vac	Leq,d	8.4	-22.3	-19.3	-12.4	-8.4	-5.4	-1.5	-7.8	-6.9	-4.0	-3.2	-2.4	-6.6	-8.4	-4.6	-10.9	-2.4	-1.9	-4.7	-1.2	-3.1	-6.2	-11.0	-18.4	-32.0	-50.6	-80.1	
Vac	Leq,d	8.5	-22.3	-19.3	-12.3	-8.3	-5.4	-1.4	-7.7	-6.8	-3.9	-3.2	-2.4	-6.5	-8.4	-4.6	-10.8	-2.4	-1.9	-4.7	-1.1	-3.1	-6.1	-10.8	-18.3	-31.8	-50.3	-79.7	
Vac	Leq,d	9.4	-24.0	-21.1	-14.1	-10.2	-7.3	-3.3	-8.3	-7.4	-1.9	-0.9	-0.1	-4.3	-6.1	-2.3	-8.6	-1.3	-0.9	-3.8	-0.3	-2.4	-5.6	-10.6	-18.3	-32.3	-51.5	-81.7	
Vac	Leq,d	5.9	-24.4	-21.6	-14.8	-11.0	-8.2	-4.5	-9.1	-8.3	-5.6	-3.3	-2.4	-6.6	-8.4	-4.7	-10.9	-7.4	-7.2	-10.2	-6.9	-9.1	-12.5	-17.7	-25.6	-39.7	-58.9	-89.1	
Vac	Leq,d	6.0	-24.2	-21.4	-14.6	-10.8	-8.0	-4.2	-8.9	-8.1	-5.4	-3.2	-2.4	-6.6	-8.4	-4.6	-10.9	-7.3	-7.0	-10.0	-6.8	-9.0	-12.4	-17.5	-25.4	-39.4	-58.6	-88.6	
Vac	Leq,d	7.8	-24.3	-21.4	-14.6	-10.8	-7.9	-4.1	-9.0	-8.2	-5.4	-1.0	-0.2	-4.4	-6.2	-2.5	-8.7	-4.7	-4.3	-7.2	-3.8	-5.9	-9.2	-14.2	-22.1	-36.2	-55.6	-86.3	
Vac	Leq,d	8.9	-24.2	-21.3	-14.4	-10.5	-7.7	-3.8	-8.7	-7.9	-5.1	-1.0	-0.2	-4.4	-6.2	-2.4	-8.7	-2.0	-1.6	-4.4	-1.0	-3.0	-6.3	-11.3	-19.0	-33.1	-52.4	-82.9	
Vac	Leq,d	9.2	-24.1	-21.2	-14.3	-10.4	-7.5	-3.6	-8.5	-7.6	-2.1	-1.0	-0.1	-4.3	-6.1	-2.4	-8.6	-1.7	-1.3	-4.2	-0.8	-2.9	-6.1	-11.1	-18.8	-32.8	-52.1	-82.4	

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA		4
---	--	---

QQ 26-630 Missouri Flat Road & Hwy 50
Contribution level - 001 - 12 Sonny - Standard: Outdoor SP

9

Source	Source group	Source type	Per. lane	Leq,d dB(A)	A dB
Receiver -34,212 FIG Lr,lim dB(A) Leq,d 45.0 dB(A) Sigma(Leq,d) 0.0 dB(A)					
001 - 12 Sonny - Standard-Transmissive area 02	Default industrial noise	Area		44.9	0.0
001 - 12 Sonny - Standard-Transmissive area 01	Default industrial noise	Area		17.5	0.0
Vac	Default industrial noise	Point		10.5	0.0
Vac	Default industrial noise	Point		10.5	0.0
Vac	Default industrial noise	Point		10.4	0.0
Vac	Default industrial noise	Point		10.3	0.0
Vac	Default industrial noise	Point		10.1	0.0
Vac	Default industrial noise	Point		8.6	0.0
Vac	Default industrial noise	Point		8.2	0.0
Vac	Default industrial noise	Point		7.9	0.0
Vac	Default industrial noise	Point		7.7	0.0
Vac	Default industrial noise	Point		7.5	0.0
Vac	Default industrial noise	Point		6.1	0.0
Vac	Default industrial noise	Point		4.9	0.0
Vac	Default industrial noise	Point		3.4	0.0
Vac	Default industrial noise	Point		2.6	0.0
Vac	Default industrial noise	Point		2.3	0.0
001 - 12 Sonny - Standard-Facade 01	Default industrial noise	Area		-4.2	0.0
001 - 12 Sonny - Standard-Facade 02	Default industrial noise	Area		-4.3	0.0
001 - 12 Sonny - Standard-Roof 01	Default industrial noise	Area		-4.5	0.0
001 - 12 Sonny - Standard-Facade 04	Default industrial noise	Area		-6.7	0.0
Turbine	Default industrial noise	Point		-10.0	0.0
001 - 12 Sonny - Standard-Facade 03	Default industrial noise	Area		-22.2	0.0
Receiver -483,69 FIG Lr,lim dB(A) Leq,d 41.5 dB(A) Sigma(Leq,d) 0.0 dB(A)					
001 - 12 Sonny - Standard-Transmissive area 02	Default industrial noise	Area		41.4	0.0
001 - 12 Sonny - Standard-Transmissive area 01	Default industrial noise	Area		18.0	0.0
Vac	Default industrial noise	Point		13.0	0.0
Vac	Default industrial noise	Point		12.0	0.0
Vac	Default industrial noise	Point		11.9	0.0
Vac	Default industrial noise	Point		11.9	0.0
Vac	Default industrial noise	Point		11.7	0.0
Vac	Default industrial noise	Point		11.5	0.0
Vac	Default industrial noise	Point		11.5	0.0
Vac	Default industrial noise	Point		11.4	0.0
Vac	Default industrial noise	Point		11.4	0.0
Vac	Default industrial noise	Point		11.4	0.0
Vac	Default industrial noise	Point		11.4	0.0
Vac	Default industrial noise	Point		11.4	0.0
Vac	Default industrial noise	Point		11.2	0.0
Vac	Default industrial noise	Point		11.2	0.0
Vac	Default industrial noise	Point		11.1	0.0
Vac	Default industrial noise	Point		10.4	0.0
001 - 12 Sonny - Standard-Facade 04	Default industrial noise	Area		1.4	0.0
001 - 12 Sonny - Standard-Roof 01	Default industrial noise	Area		-2.0	0.0

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

1

QQ 26-630 Missouri Flat Road & Hwy 50
Contribution level - 001 - 12 Sonny - Standard: Outdoor SP

9

Source	Source group	Source type	Per. lane	Leq,d dB(A)	A dB
001 - 12 Sonny - Standard-Facade 01	Default industrial noise	Area		-4.3	0.0
001 - 12 Sonny - Standard-Facade 02	Default industrial noise	Area		-6.6	0.0
Turbine	Default industrial noise	Point		-7.0	0.0
001 - 12 Sonny - Standard-Facade 03	Default industrial noise	Area		-22.3	0.0
Receiver -628,719 FIG Lr,lim dB(A) Leq,d 43.3 dB(A) Sigma(Leq,d) 0.0 dB(A)					
001 - 12 Sonny - Standard-Transmissive area 01	Default industrial noise	Area		42.9	0.0
001 - 12 Sonny - Standard-Transmissive area 02	Default industrial noise	Area		30.5	0.0
Vac	Default industrial noise	Point		20.5	0.0
Vac	Default industrial noise	Point		20.4	0.0
Vac	Default industrial noise	Point		20.3	0.0
Vac	Default industrial noise	Point		20.1	0.0
Vac	Default industrial noise	Point		20.0	0.0
Vac	Default industrial noise	Point		19.6	0.0
Vac	Default industrial noise	Point		19.4	0.0
Vac	Default industrial noise	Point		19.4	0.0
Vac	Default industrial noise	Point		19.2	0.0
Vac	Default industrial noise	Point		18.7	0.0
Vac	Default industrial noise	Point		16.4	0.0
Vac	Default industrial noise	Point		15.2	0.0
Vac	Default industrial noise	Point		12.2	0.0
Vac	Default industrial noise	Point		11.4	0.0
Vac	Default industrial noise	Point		10.7	0.0
001 - 12 Sonny - Standard-Facade 02	Default industrial noise	Area		5.1	0.0
001 - 12 Sonny - Standard-Roof 01	Default industrial noise	Area		2.5	0.0
001 - 12 Sonny - Standard-Facade 04	Default industrial noise	Area		0.3	0.0
Turbine	Default industrial noise	Point		-0.3	0.0
001 - 12 Sonny - Standard-Facade 03	Default industrial noise	Area		-5.4	0.0
001 - 12 Sonny - Standard-Facade 01	Default industrial noise	Area		-9.1	0.0
Receiver -1175,666 FIG Lr,lim dB(A) Leq,d 33.5 dB(A) Sigma(Leq,d) 0.0 dB(A)					
001 - 12 Sonny - Standard-Transmissive area 01	Default industrial noise	Area		33.1	0.0
001 - 12 Sonny - Standard-Transmissive area 02	Default industrial noise	Area		19.5	0.0
Vac	Default industrial noise	Point		10.4	0.0
Vac	Default industrial noise	Point		10.2	0.0
Vac	Default industrial noise	Point		9.7	0.0
Vac	Default industrial noise	Point		9.4	0.0
Vac	Default industrial noise	Point		9.2	0.0
Vac	Default industrial noise	Point		8.9	0.0
Vac	Default industrial noise	Point		8.5	0.0
Vac	Default industrial noise	Point		8.4	0.0
Vac	Default industrial noise	Point		7.8	0.0
Vac	Default industrial noise	Point		7.0	0.0
Vac	Default industrial noise	Point		6.0	0.0
Vac	Default industrial noise	Point		5.9	0.0
Vac	Default industrial noise	Point		4.9	0.0

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

2

QQ 26-630 Missouri Flat Road & Hwy 50
Contribution level - 001 - 12 Sonny - Standard: Outdoor SP

9

Source	Source group	Source type	Per. lane	Leq,d dB(A)	A dB
Vac	Default industrial noise	Point		4.8	0.0
Vac	Default industrial noise	Point		4.6	0.0
001 - 12 Sonny - Standard-Facade 04	Default industrial noise	Area		-0.5	0.0
001 - 12 Sonny - Standard-Roof 01	Default industrial noise	Area		-6.2	0.0
001 - 12 Sonny - Standard-Facade 02	Default industrial noise	Area		-7.2	0.0
Turbine	Default industrial noise	Point		-12.8	0.0
001 - 12 Sonny - Standard-Facade 03	Default industrial noise	Area		-14.1	0.0
001 - 12 Sonny - Standard-Facade 01	Default industrial noise	Area		-18.5	0.0

MD Acoustics 1197 E Los Angeles Ave, Unit C 256 Simi Valley, CA 93065 USA

3

Appendix C:
Equipment Reference Data

CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study



SOUND LEVEL METER READINGS

MODEL: FT-DD-T340HP4 (40hp VACSTAR TURBINE VACUUM PRODUCER)

READING ONE: 43 DB-A, 3 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING TWO: 36 DB-A, 10 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING THREE: 24 DB-A, 20 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

READING FOUR: 12 DB-A, 30 FEET FROM TURBINE @ 45° ANGLE
AND NO BACKGROUND NOISE OR OUTSIDE INTERFERENCE.

NOTE: THESE READINGS WERE TAKEN OUTSIDE OF 8'x10'x8' CINDER BLOCK ENCLOSURE WITH CONCRETE SLAB AND WOOD JOIST ROOF.

SOUND LEVEL METER USED:

SIMPSON MODEL #40003 – MSHA APPROVED.
MEETS OSHA & WALSH-HEALY REQUIREMENTS FOR NOISE CONTROL.
CONFORMS TO ANSI S1.4-1983, IEC 651 SPECS FOR METER TYPE.

Vacutech
1350 Hi-Tech Drive, Sheridan WY, 82801
PHONE: (800) 917-9444 FAX: (303) 675-1988
EMAIL: info@vacutechllc
WEB SITE: vacutechllc.com

Project: SuperStar Car Wash Chula Vista
Site Location: 1555 W Warner Rd, Gilbert, AZ 85233
Date: 4/5/2018
Field Tech/Engineer: Robert Pearson
Source/System: Vacutec System

Site Observations:
Clear sky, measurements were performed within 1.5ft of source. Measurements were performed while the vacuum was positioned at three (3) different positions. Holstered, unholstered and inside a car. This data is utilized for acoustic modeling purposes and represents an average sound level at a vacuum station.

Location: Vac Bay 1
Sound Meter: NTI XL2 **SN:** A2A-05967-E0
Settings: A-weighted, slow, 1-sec, 10-sec duration
Meteorological Cond.: 80 degrees F, 2 mph wind

Table 1: Summary Measurement Data

Source	System	Overall dB(A)	3rd Octave Band Data (dB)																														
			20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1K	1.25K	1.6K	2K	2.5K	3.15K	4K	5K	6.3K	8K	10K	12.5K	16K	20K
Vacutec (Holstered)	Vacuum	63.3	9	17	22	29	31	35	40	41	44	43	46	48	47	49	51	51	51	52	53	52	52	50	52	53	50	47	47	48	45	39	30
Vacutec (Unholstered)	Vacuum	80.7	6	19	22	28	34	37	40	43	47	46	48	48	49	54	55	58	58	62	65	68	70	74	75	73	69	67	65	63	60	55	
Vacutec (Inside Car)	Vacuum	69.6	16	28	31	38	42	45	49	51	52	55	60	61	57	55	59	53	55	56	54	57	57	57	57	55	54	51	48	46	42	36	
Average Level*	Vacuum	76.3	13	24	28	34	38	41	45	47	49	51	56	57	53	52	56	54	56	56	59	61	64	66	69	70	68	64	62	60	58	55	50

* Refers to the logarithmic average of all measurements. This measurement represents an average of the multiple vacuum positions.

Figure 1: Example Measurement Position

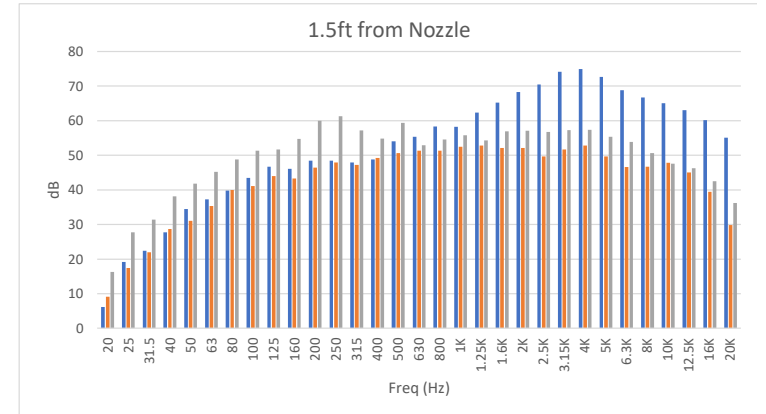
Figure 1: Holstered



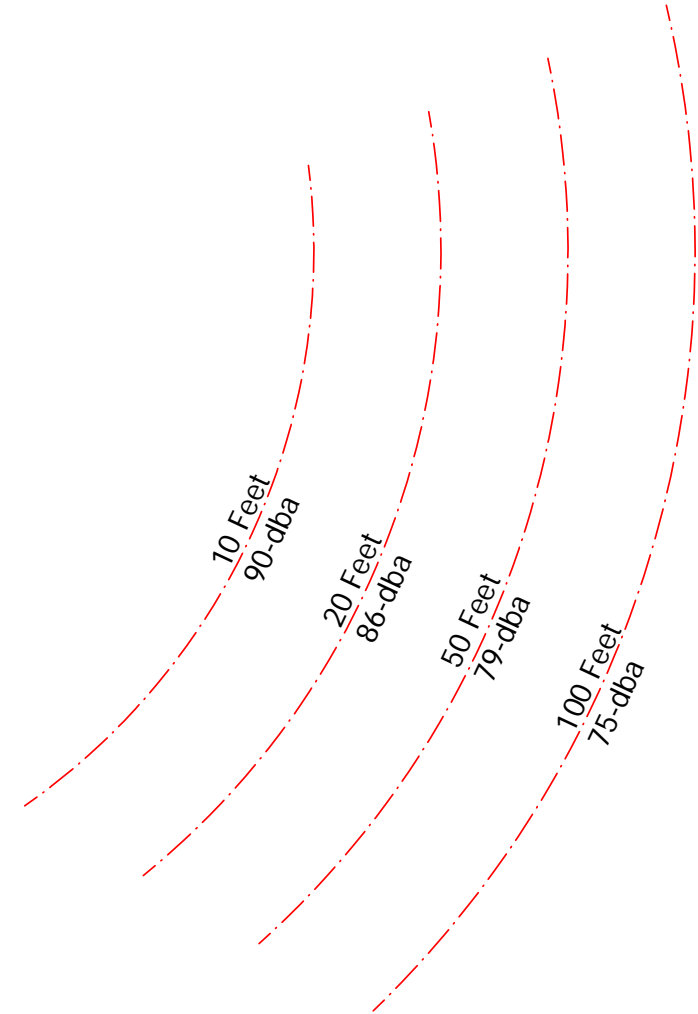
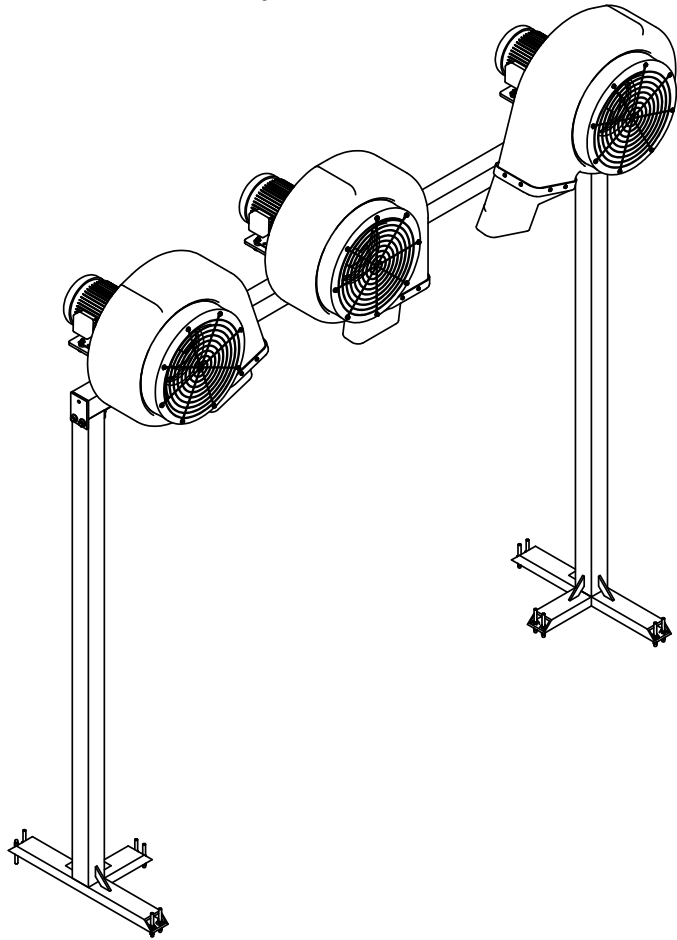
Figure 2: Unholstered



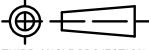
Figure 3: Inside Car



Enviromental Noise with Dryer OFF: 70 dba



CUP22-0008/PD-R22-0002 Exhibit F: Noise Impact Study

 THIRD ANGLE PROJECTION BREAK ALL SHARP CORNERS. PART TO BE FREE OF BURRS. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES	MACHINING TOLERANCES FRACTION ± 1/16" .XX DECIMAL ± 0.030 .XXX DECIMAL ± 0.005	DRAWN LVerdecia APPROVED 8/26/2011 8/1/2012	SONNY'S ENTERPRISES THE CARWASH FACTORY	
	ANGLARITY ± 2" FINISH 125	CATEGORY BLOWER	DESCRIPTION BLOWER ASSEMBLY, ONE ARCH 45HP	PART NUMBER BL1-45HP-1
MATERIAL		THIS SHEET CONTAINS CONFIDENTIAL INFORMATION, IMAGES AND TRADE SECRETS OF SONNY'S ENTERPRISES, INC. ANY UNAUTHORIZED USE OR DISCLOSURE OF ANY PORTION THEREOF IS STRICTLY PROHIBITED. THIS WORK IS THE EXCLUSIVE PROPERTY OF SONNY'S ENTERPRISES, INC. ALL RIGHTS RESERVED.	SIZE A	SCALE N.T.S.

Product Features

- Gain flexibility in complying with noise ordinances that limit the allowable noise levels in some zoned areas.
- Blower Inlet Silencer retrofits to an existing Sonny's blower to reduce noise level by up to 7 decibels at 50 feet (depending on site specific architecture and other variables).
- Available in three colors: **Blue (# 20018006)**, **Black (# 20018005)** and **Red (# 20018008)**



Note: Hardware is not included. Order a self-tapping screw kit (# **10013134**) for each silencer.

INSTALLATION

Tools

1. Safety Glasses
2. Cordless Drill
3. Drive Socket Set
4. 8’ Ladder

Consumables

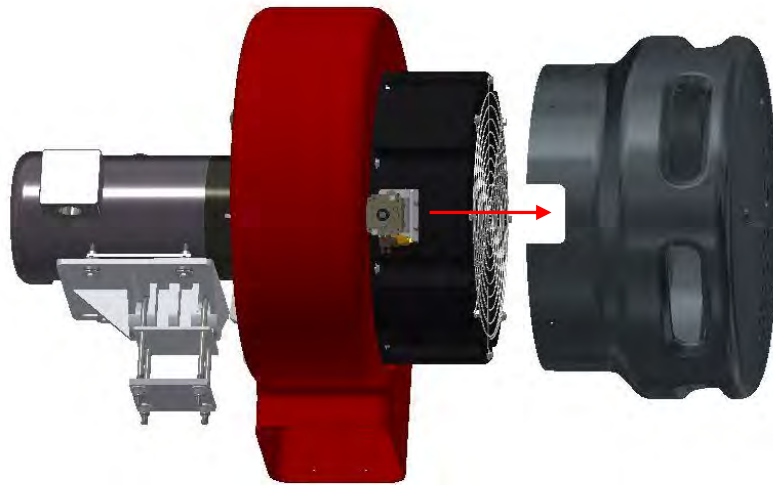
None

Work Force

Two (2) persons

Time (assuming no problems)

15 - 30 minutes



Caution: You must shut off all power to the conveyor and lock out the Motor Control Center before starting this install.

1. Shut off all power to the conveyor, blowers and lock out the Motor Control Center.
2. Insert the silencer over the venturi. For the gator silencer option, align notches to the gator actuator bracket (as pictured above).
3. Using the existing holes on the Silencer housing, affix the silencer to the gator housing using (8) of the provided self-tapping screws (# 10013134).
4. Avoid over-torquing the self-tapping screws to prevent stripping the plastic housing.



ON-SITE TRANSPORTATION REVIEW

for

**Quick Quack Car Wash #26-630
Missouri Flat Road
Placerville, CA 95667**

by

**ams associates, inc.
801 Ygnacio Valley Road, Suite 220
Walnut Creek, CA 94596
(925) 943-2777
ams Project No. 2514-1**

Prepared:
October 25 , 2022

Prepared By:
Farhad Iranitalab

R.C.E. 33142
R.T.E. 1695

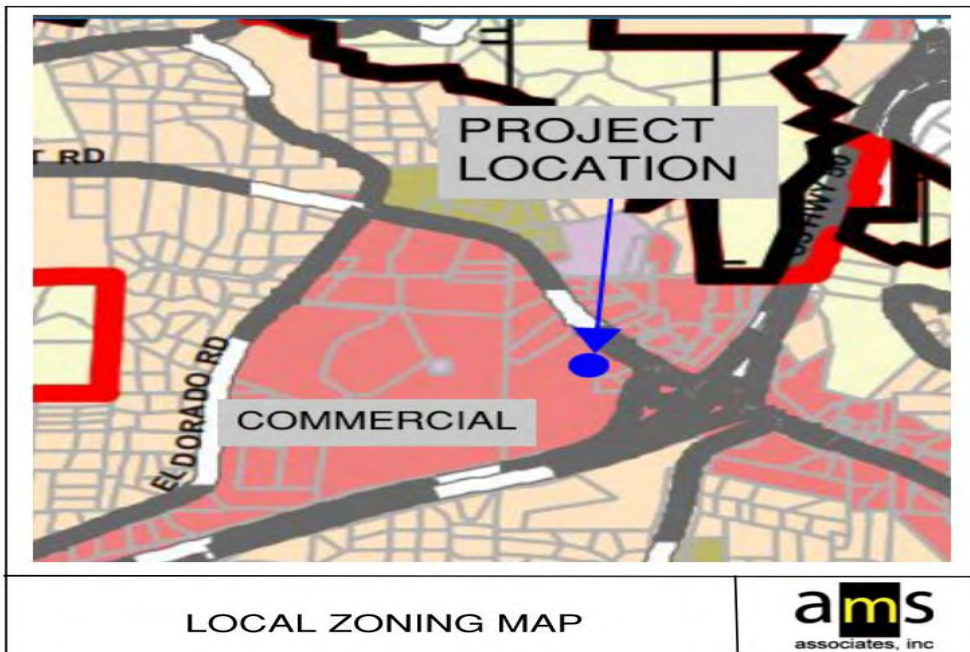


INTRODUCTION

The purpose of this report is to evaluate the existing traffic issues and the impact of the proposed project on roadway network serving the project.

Project Setting

The project is located within the existing shopping center on the east side of Missouri Flat Road to the north of SR50 in the City of Placerville, El Dorado County. Proposed project will be constructed on a parcel previously occupied by 7,855 square feet drive in bank.



The main access to the project site is via the signalized intersection at Missouri Flat Road and Plaza Drive approximately 550 feet to the north of SR50 westbound Off and On ramps.



Missouri Flat Road is a major north-south undivided two lanes road (one lane in each direction) north of the northerly driveways onto the shopping center. Missouri Flat Road widens to four lanes (two lanes in each direction) divided by a two-way left turn lane center striping in the vicinity of shopping center. As depicted on the photo above the southbound approach to the intersection has one left-turn lane, two through lanes, bike lane, and a right turn lane.

In the northbound approach, Missouri Flat road is a divided four lane road (two lanes in each direction) with two left turn lanes, two through lanes (one lane is dropped two hundred feet north of the Plaza Drive intersection), a bike lane and a right turn lane.



The traffic signal at the intersection of Missouri Flat Road and Plaza Drive is operating in split mode. In other words, the eastbound and westbound traffic on Plaza Drive run independently and not concurrently.

Project Description

proposed project will demolish existing building and construct a one-tunnel automated carwash with 3,600 square feet of building, fourteen standard vacuum stalls and one disabled parking stall, on 0.85-acre parcel. No direct access is provided onto Missouri Flat Road. The main access to the shopping center is off Missouri Flat Road at the signalized intersection of Missouri Flat and Plaza Drive as shown below.

The Quick Quack automated car wash requires to have 2 to 3 employees at the site at any given time, the existing site has adequate parking stalls to accommodate the employees. The project is a drive through car wash and does not have demand for parking.

Based on the project characteristics, the project does not generate any truck traffic except for waste collection trucks.



Site Circulation

As shown on figure below the ingress to the car wash is from a one-way driveway inside the shopping center in a counterclockwise direction and exit the site via a one-way driveway onto the shopping center. Patrons have a choice to either exit toward Missouri Flat road at the northerly shopping center exit or from the signalized intersection at Plaza Drive and Missouri Flat Road.



Trip Generation Calculation

Trip generation represents the amount of traffic generated by a development. The Institute of Transportation Engineers (ITE), Trip Generation Manual, 11 Edition, for Land Use 948 “automated carwash” does not include daily or a.m. peak hour rates. Based on the ITE Manual, trip generation rates for p.m. peak hour (4 to 6) are seventy-eight trips. However, our research located a survey of generated trips for automated car wash conducted by RK Engineering at two automated car wash sites in the City of Santa Anna in Orange County, southern California in March 2019 and data collected at a Quick Quack Car Wash in the City of Corona, in Southern California indicates the rates as shown on Table 1.

Table 1- Summary of Trip Generation for Automated Car Wash

Observed Car Wash Location	Weekday Peak Hour						Weekday Daily Trips
	AM			PM			
	In	Out	Total	In	Out	Total	
ITE, Traffic Generation Manual 11 th Edition (land use 948)	-	-	-	39	39	78	-
Scrub Bot Express Car Wash (1807 Main Street), San Anna, California	12	10	22	36	55	91	745
Zaro Express Car Wash (1205 W. 17 th Street)	15	13	28	43	37	80	644
Quick Quack Car Wash 850 N. Main Street, Corona, California	32	25	57	40	41	81	-
Average	20	16	36	40	43	83	695
Pass-By plus internal capture Trip Reduction 45%	-9	-7	-16	-18	-19	-37	-313
Total Net New Trips.	11	9	20	22	24	46	382

As shown on Table 1, the generated number of trips vary between the sites depending on the location and access point. All three sites’ trips are more conservative than the values presented in the ITE Trip Generation Manual. This study uses the average collected data at the driveways from the three sites surveyed plus the ITE Manual for use in calculation. Table 2 present the comparison between the trip generated by the previous drive-in bank and the proposed project.

Table 2- Comparison of Trip Generation of the Drive-thru Bank and Proposed Project

Previous Land Use	Unit Quantity	Size	Trips Per Unit						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Drive-In Bank (LU 912)	KSF	7.86	100.35	58%	42%	9.95	50%	50%	21.01
Drive in bank (LU 912)			789	45	33	78	82	83	165
Proposed Automated Car Wash*	Tunnel	1	695	56%	44%	36	48%	52%	83
Automated Car Wash (LU 948)			695	20	16	36	40	43	83
Changes in Number of Trips			-95	-25	-17	-42	-52	-40	-82

Collision History

The collision data were collected from Statewide Integrated Traffic Records System (SWITRS) between the year 2018, and 2022. The graphical presentation is illustrated on the exhibit on the next page. Based on the reported collisions, there were three accidents (two broadside and one sideswipe type) reported in 2018, Three accidents (one broadside, one rear end, and one



sideswipe type) in 2019, four collisions (two broadsides, one rear end, and one sideswipe type) in 2020, one collision (sideswipe type) in 2021, and six accidents (five sideswipe type, and one broadside type) in the first half of 2022.

All sideswipe collisions were associated with improper lane change, the broadside collisions were associated with disregard to right of way.

No unusual conditions observed, visibility is adequate and lane lines are fresh and visible.

Parking

The Quick Quack Car Wash have two to three employees on site at any given period, the parking provided on site and the project vicinity is adequate for the project parking demand.

Truck Circulation

The proposed project does not generate truck trips.

Conclusion

Based on the above information and comparison between trips generated by the proposed project and previous drive-in bank, there would not be any significant traffic impact from the proposed project. Except as the requirements set by the conditions of approval no other recommendation is proposed