RNS ACOUSTICS

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July 9, 2024

Aaron Whitfield
Breakers RE
153 South Sierra Ave # 1267
Solana Beach, CA

RE: **Environmental Noise Study** – Revision #1
Senior Living Center – 3400 Chisom Trail, Loomis, CA 95650

Dear Aaron:

The following report summarizes our environmental noise measurements, analysis, and conclusions for the proposed senior living center at 3400 Chisom Trail, Loomis, CA. Our analysis is based on the Revised Planning Submittal package dated November 1, 2023.

Executive Summary

The Creekstone senior living center is planned for construction at 3400 Chisom Trail in Loomis, California. We have conducted detailed noise testing at the site of the project to determine typical environmental noise levels. Based on our best current understanding of exterior partition assemblies, we have calculated the expected levels of interior noise due to exterior environmental sources.

- **Environmental noise measurements were conducted at the project site from approximately 10:00 am February 15th to approximately 1:00 pm February 16th of 2024. The hourly A-weighted equivalent levels were evaluated to calculate the Day-Night Equivalent Noise Level (LDN). The calculated LDN for this time period reached up to 71 dBA in the worst-case locations (those closest to Interstate 80 and Boyington Road).**

- **To calculate the interior DNL, we took the following steps:**

    - **Determine the sound isolation properties (third-octave-band transmission loss) of each exterior building element (roof-ceiling, walls, windows, sliding glass doors, entry doors, etc.).**

    - **Determine the surface area of each exterior building element for each unique room configuration.**

    - **Calculate the composite sound isolation properties of the exterior building elements (composite transmission loss) for each unique room configuration.**

    - **Calculate the interior noise level according to the standard ISO 123543-3:2017 "Building Acoustics – Estimation of Acoustic Performance of Building from the Performance Elements – Part 3 – Airborne Sound Insulation Against Outdoor Sound."**

- **Our measurements and calculations show that the interior DNL will be less than 45 dBA in the majority of the proposed residential units under typical exterior wall and glazing assemblies. Acoustically-enhanced assemblies with higher STC and OITC ratings will be required to meet interior DNL requirements in a small number of residential units (8 in total). Detailed results and recommendations are provided later in this report.**

Terminology

A-weighting is a method of interpreting the frequency content of sound. A-weighting reduces the influence of low-frequency sound similar to how the human ear perceives loudness. A-weighting is commonly used in noise ordinances and is indicated by dB(A), dBA, LAx,y (where "x" indicates the metric and "y" (optional) indicates the time period).

Equivalent Level – "The level of a steady sound which, in a stated time period and at a stated location, has the same sound energy as the (A-weighted) time-varying sound." This is sometimes also called the Equivalent Continuous Noise Level, and commonly said to indicate the average sound level over a given measurement period. For purposes of environmental noise analysis, the A-weighted Hourly Equivalent Level ($LA_{EQ,1hr}$) is commonly used.

Day-Night Equivalent Noise Level (DNL, LDN, or L_{dn}) is a common acoustical metric used to characterize the average noise levels at a given location over a 24-hour period. DNL is calculated by logarithmically averaging the A-weighted Hourly Equivalent Levels ($LA_{EQ,1hr}$) over a 24-hour period, with a 10 dBA penalty added to night-time hours (10:00pm – 7:00am). The night-time penalties are intended to address the increased noise sensitivity of occupants during these periods, and to better correlate the sound level with community annoyance.

Sound Transmission Class (STC) – is a single number rating that estimates how much mid-frequency sound a building element will block (window, wall, etc.). STC ratings are calculated by fitting the frequency dependent Transmission Loss values to a standard curve. Note that STC ratings do not provide any indication of how much low-frequency sound (bass) the building element will block, and it is generally more difficult to block low-frequency sound compared to mid- and high-frequency sound.

Outdoor-Indoor Transmission Class (OITC) – is a single number rating similar to Sound Transmission Class (STC), but which accounts for partition performance at low frequencies more typical of traffic noise.

Regulatory Environment

City of Loomis, CA – Municipal Code

Section 13.30.070 ("Noise Standards") of the City of Loomis Municipal Code provides limits for exterior and interior environmental noise. Table 3-2 of this section specifies the allowable exterior and interior noise levels due to environmental factors, based on receiving land usages. This table is reproduced below.

TABLE 3-2 - MAXIMUM ALLOWABLE NOISE LEVEL BY RECEIVING LAND USE

Noise Sensitive Land Use	Outdoor Activity Areas (1) (2)	Interior Spaces	
	dBA L_{dn}	dBA L_{dn}	dBA L_{eq}
Residential	65	45	N.A.
Transient lodging	65	45	N.A.
Hospitals, extended care	65	45	N.A.
Theater, auditorium	N.A.	N.A.	35
Religious facility, meeting hall	65	N.A.	40
Offices	N.A.	N.A.	45
School, library, museum	N.A.	N.A.	45
Playground, park	70	N.A.	N.A.

Since the proposed senior living center will house permanent residents, it is subject to residential noise limits using Day-Night Equivalent Level metrics. Project environmental noise levels shall therefore be limited to no more than 65 dBA DNL for designated outdoor activity areas and no more than 45 dBA DNL for all habitable room interiors.

California Building Code

The California Building Code also provides requirements for Allowable Interior Noise Levels under Section 1207.4.

> "Interior noise levels attributable to exterior sources shall not exceed 45 dB[A] in any habitable room. The noise metric shall be either the day-night average sound level (Ldn) or the community noise equivalent level (CNEL), consistent with the noise element of the local general plan."

Relevant Noise Sources

Traffic Noise

Based on our on-site observations and inspection of maps and satellite photos of the area surrounding the project, the primary source of project environmental noise will be traffic on Interstate 80 (Purple Heart Trail / Alan S. Hart Freeway / Dwight D. Eisenhower Freeway) to the southeast of project property (approximately 90 feet away at its nearest points) with a secondary noise source being traffic on King Road to the south of the property (approximately 150 feet away at its nearest points). Lighter traffic on Boyington Road and Chisom Trail did not appear to significantly contribute to overall DNL noise levels.

Stadium Noise

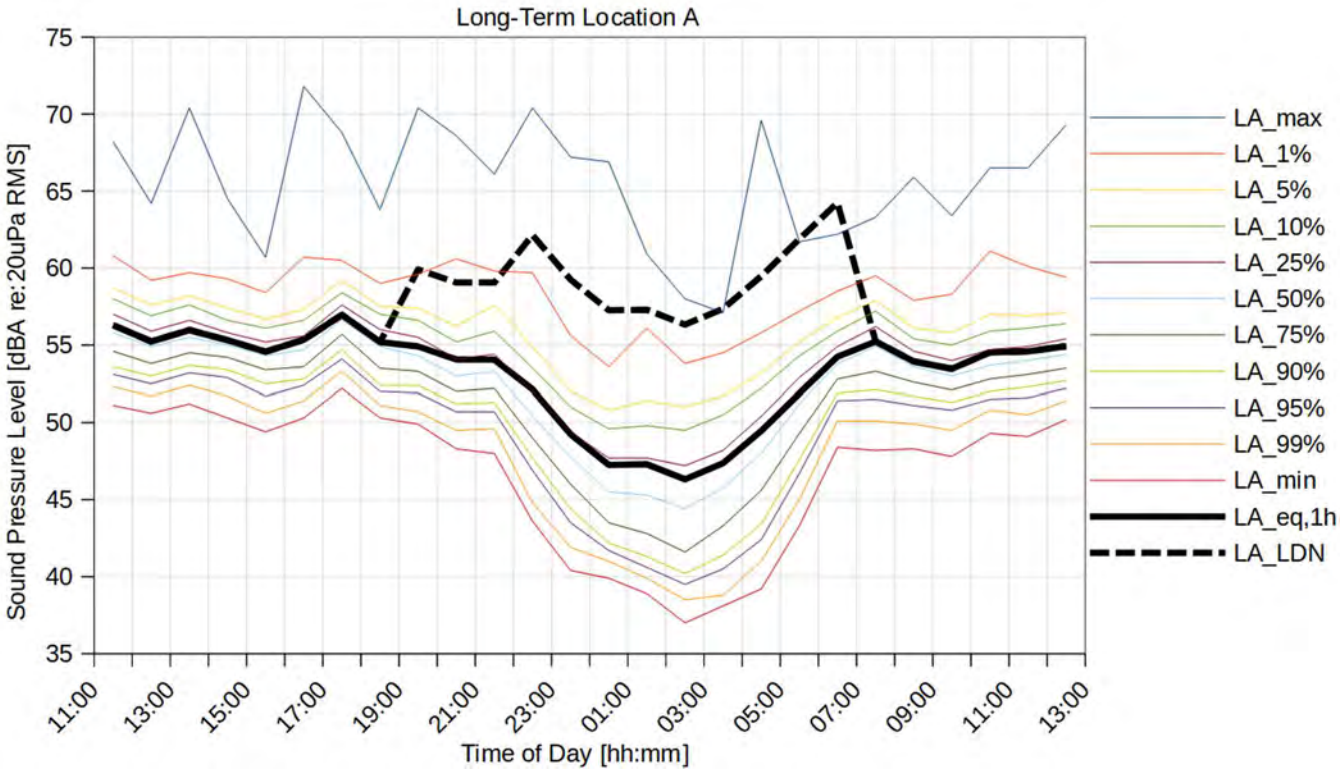
Located roughly 640 feet northwest of the property at its nearest points is the Del Oro High School Football Stadium. The stadium is expected to generate noise levels audible at the project property, although measurements could not be obtained for this project due to its occurrence outside of high-school football season. However, if the stadium operates within its limits as specified in Table 3-3 of Loomis Municipal Code Section 13.30.070 – which sets limits at receiving property lines based on time of day and noise duration – then project noise limits for outdoor activity spaces and habitable room interiors will not be exceeded.

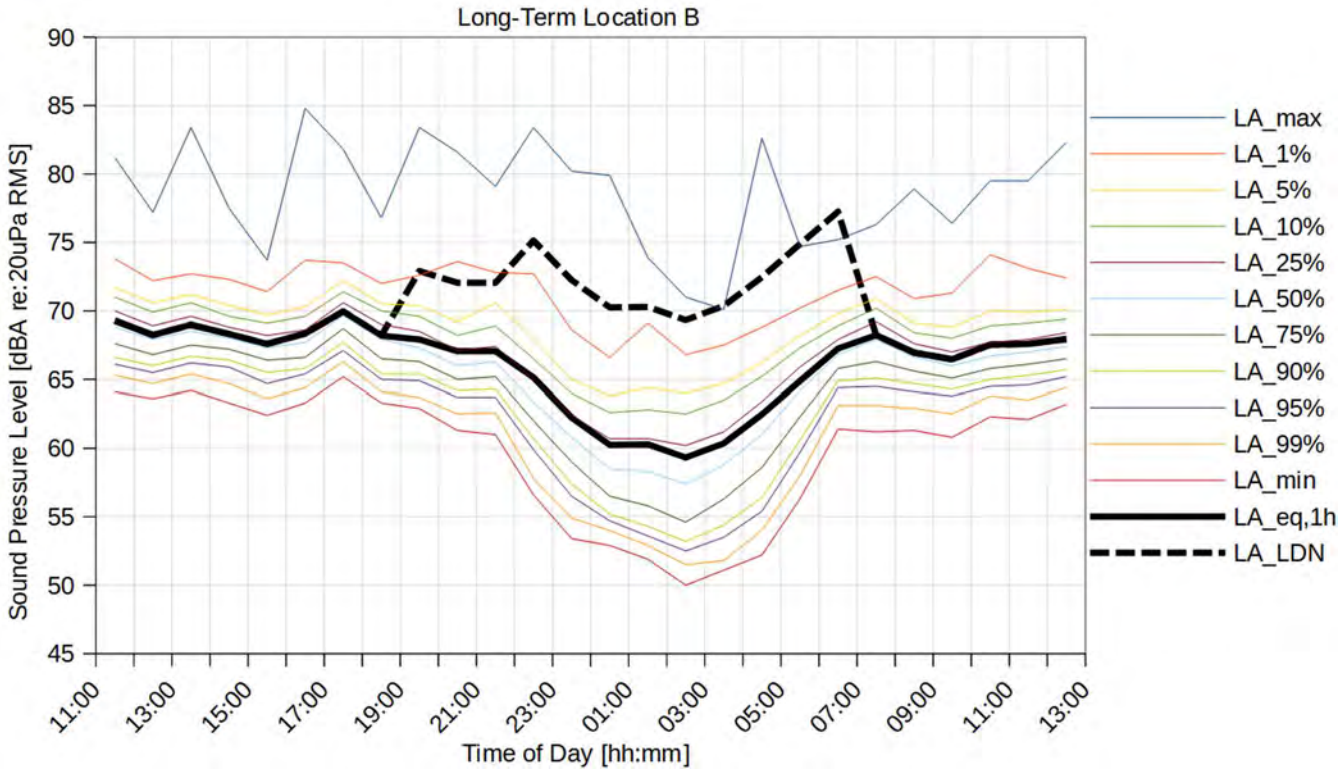
Noise Measurements

To evaluate the noise environment at the project site, noise measurements were taken on-site from February 15th through February 16th of 2024. In order to calibrate a noise propagation model, several short-term spot measurements were taken, in addition to a few long-term measurements. The following figure illustrates all measurement locations on a map of the project site. Numbered locations in green represent short-term spot measurements, while letter locations in blue represent long-term measurement locations.

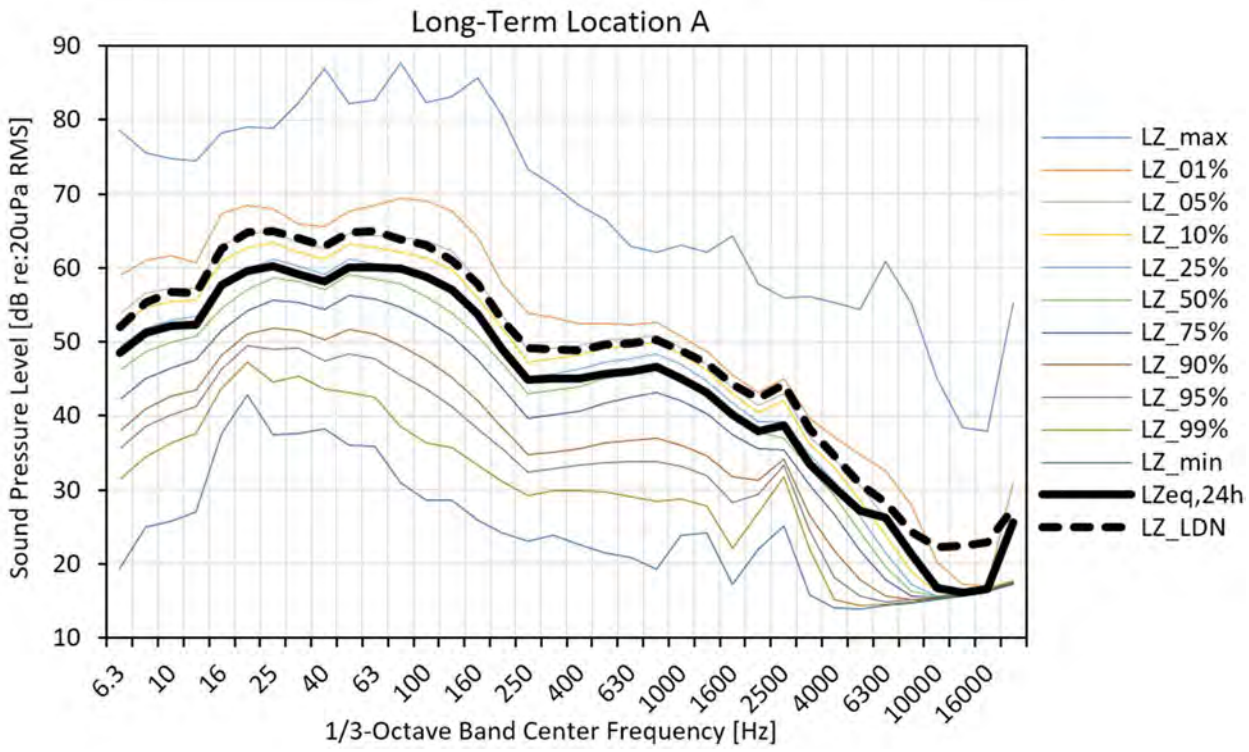
CNEL Measurement Results

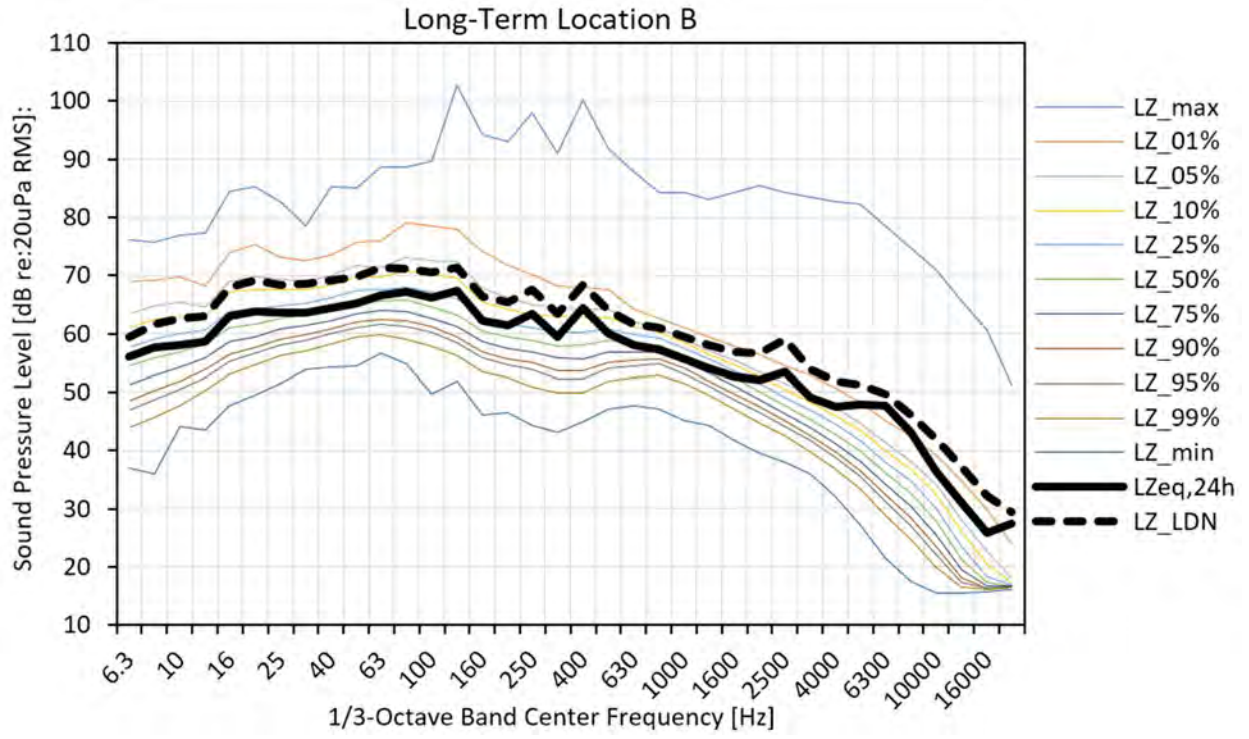
The hourly A-weighted Equivalent Levels were evaluated to calculate the Day-Night Equivalent Level (DNL). The calculated exterior DNL levels for this time period (calculated from 12:00 noon 2/15/'24 to 12:00 noon 2/16/'24) were approximately **58 dBA at Location A** (northwest property corner) and **71 dBA at Location B** (southwest property corner). These levels, as well as the short-term measurements taken at the various numbered locations, were used to calibrate a sound propagation model predicting post-construction DNL sound levels across the project site. The following figures show the hourly A-weighted percentile levels, hourly A-weighted equivalent levels, and hourly DNL-weighted equivalent levels (with +10 dBA nighttime penalties applied).





The following figures show the frequency spectra (in one-third-octave frequency bands) of the noise levels measured at the two long-term locations. Percentile distributions, 24-hour equivalent levels, and Day-Night Equivalent Levels (including nighttime +10 dBA penalties) are shown. Note that the accuracy of some high-frequency measurements is limited by the noise floor of the meters and microphones used.





Testing Equipment

The following table lists the acoustical test equipment used for our measurements. The equipment was calibrated before starting the measurement and checked again at the end of the measurement.

Type	Manufacturer	Model	Serial
Sound Level Meter	NTi	XL2	A2A-14078-E0
Sound Level Meter	NTi	XL2	A2A-14080-E0
Calibrator	ACO Pacific	Model #521	85110
Microphone	Earthworks	M23	5893I
Microphone	Earthworks	M23	5893I
Microphone Weather Protection	iSEMcon	OPS-35	N/A
Microphone Weather Protection	iSEMcon	OPS-35	N/A

Noise Model Results

Calibrated using noise spectra measured on-site, noise models were created to map DNL noise levels at the current site and to predict the post-construction DNL levels. These predictions were used to calculate the noise reduction necessary for the project to comply with the environmental noise requirements of the Loomis Municipal Code and the California Building Code. All project buildings were fully modelled along with the area's most significant noise sources: Interstate 80 and King Road.

The images contained in the following pages are as detailed below:

i. Full overhead view of the noise model constructed for the Creekstone project, with Google Maps satellite image and project site plan overlaid.

ii. Various three-dimensional model views at multiple angles, illustrating building geometry and orientation of line sources modelling freeway and major roadway noise.

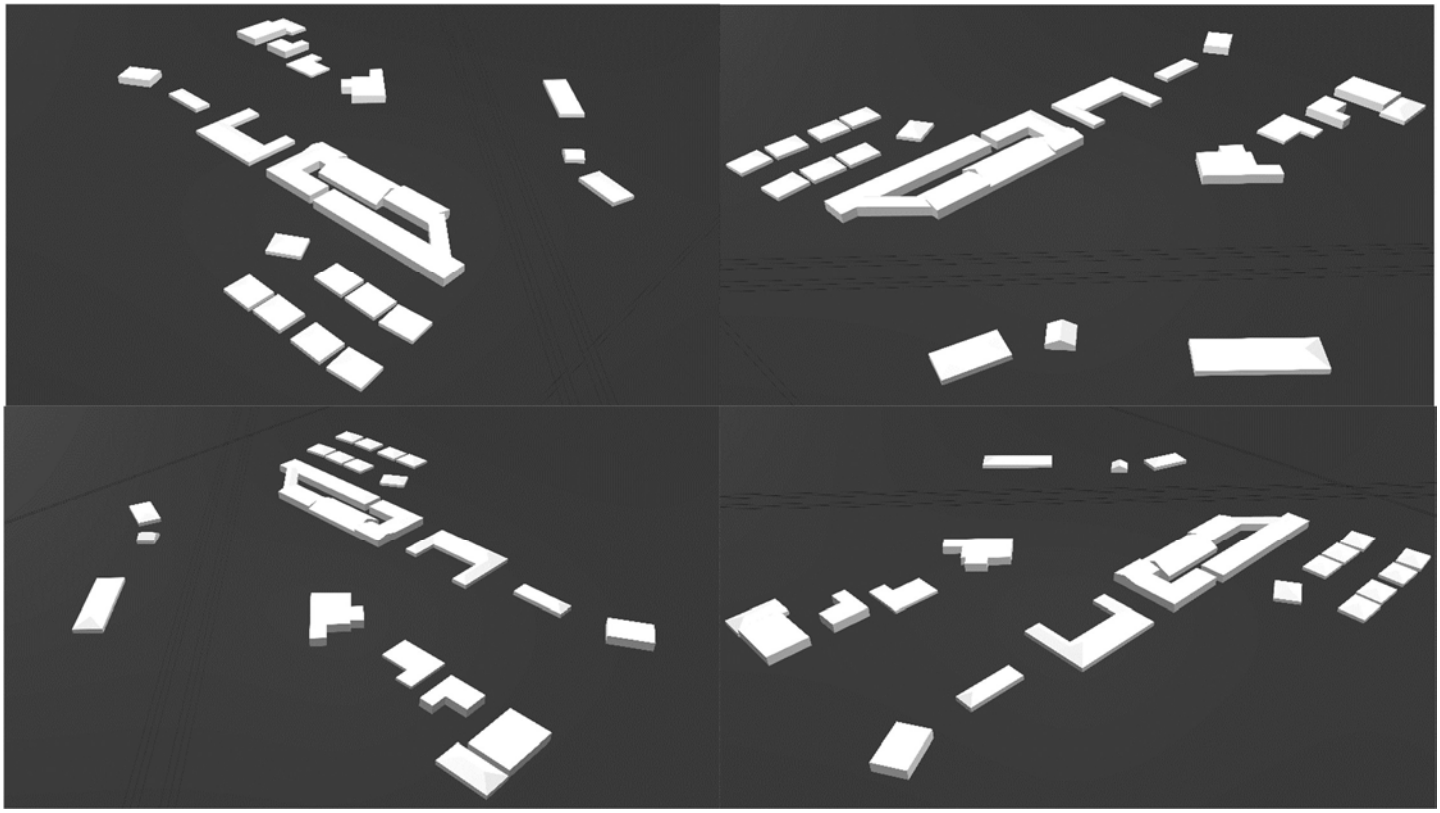
iii. Noise model results for current DNL noise contours due to traffic, as calibrated by on-site testing.

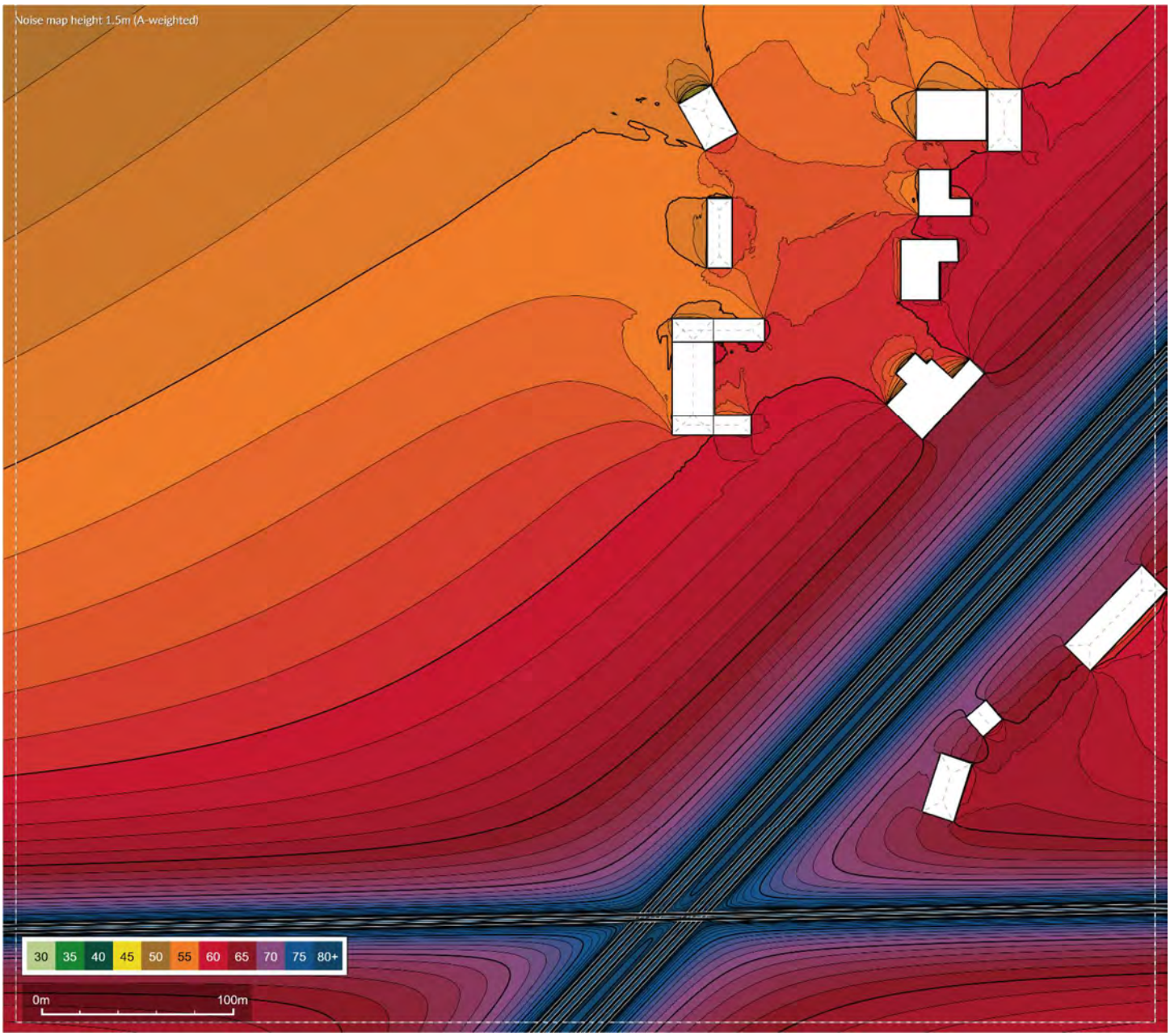
iv. Predicted future DNL noise contours following construction of the new Creekstone building.

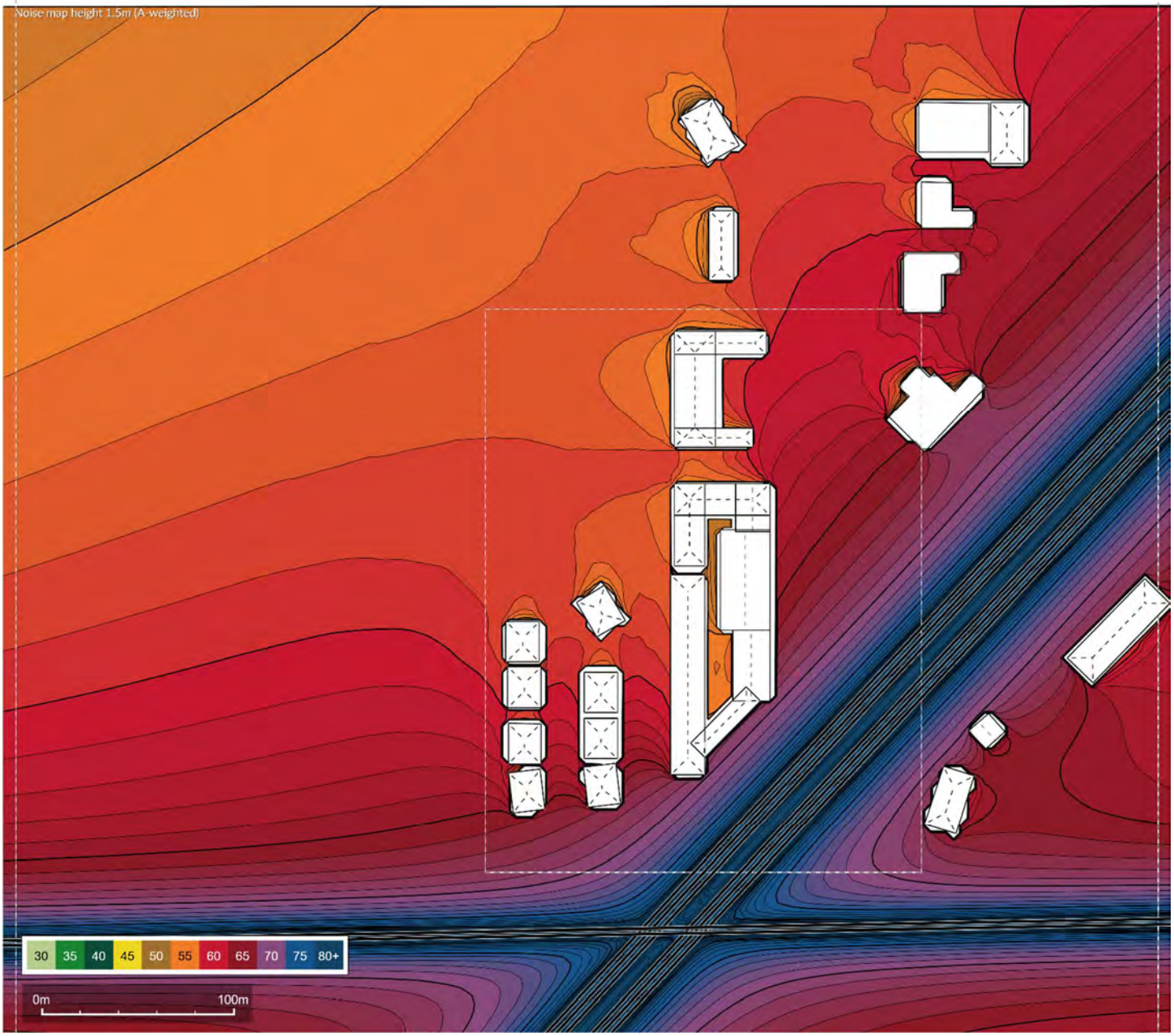
v. Zoomed-in view of predicted future DNL noise contours (at areas of project most impacted by traffic noise).

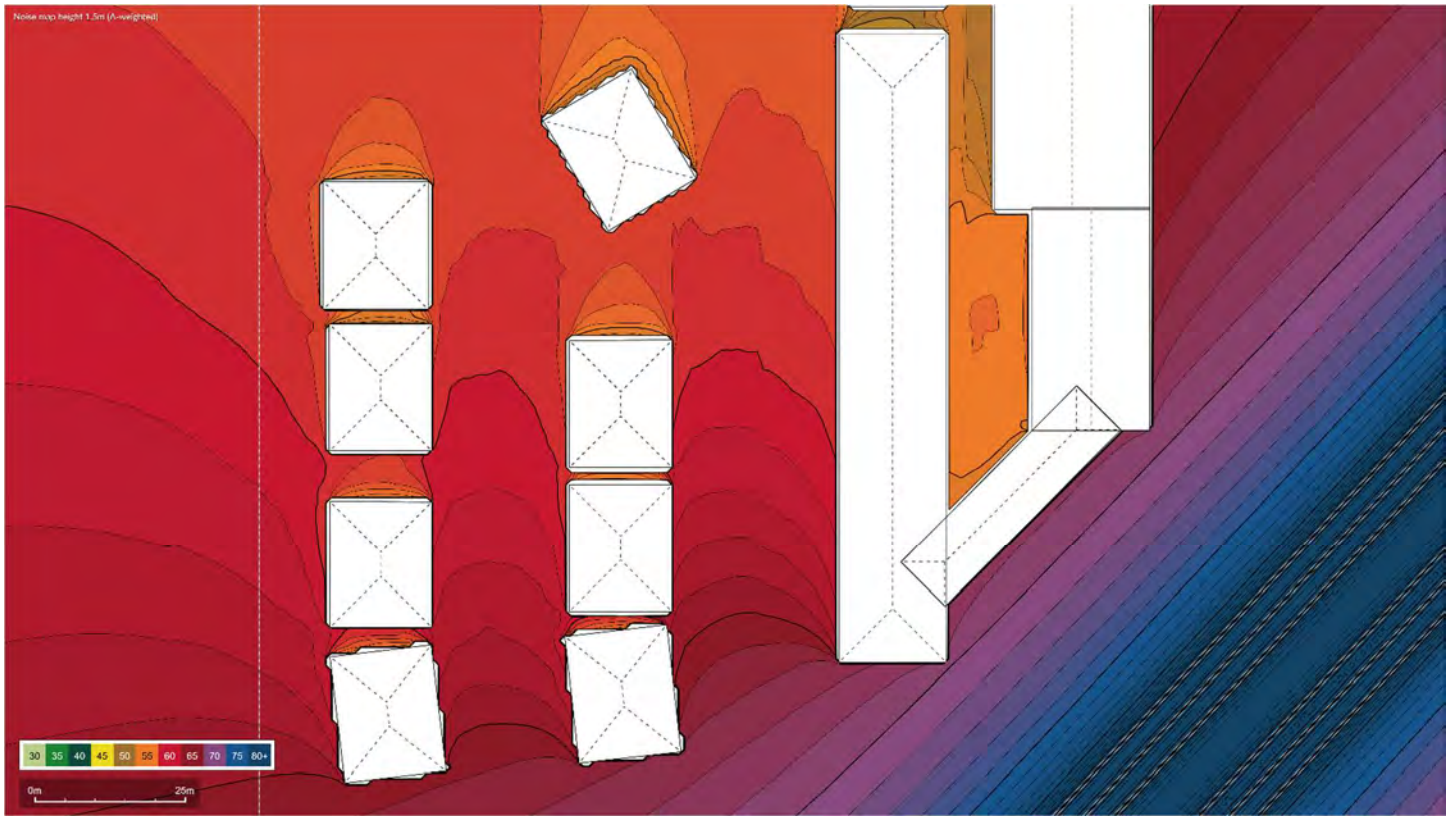
vi. Predicted DNL noise levels at various building façade points used in exterior-to-interior transmission calculations. Though only A-weighted decibel levels are shown, full noise spectra predicted at each location were used in our transmission calculations for each respective exterior partition.

Noise map height 1.5m (A-weighted)
GOLDEN EAGLES
30 35 40 45 50 55 60 65 70 75 80+
Google
100m
Imagery ©2024 Airbus, Maxar Technologies




Noise map height 1.5m (A-weighted)
30 35 40 45 50 55 60 65 70 75 80+
0m
100m

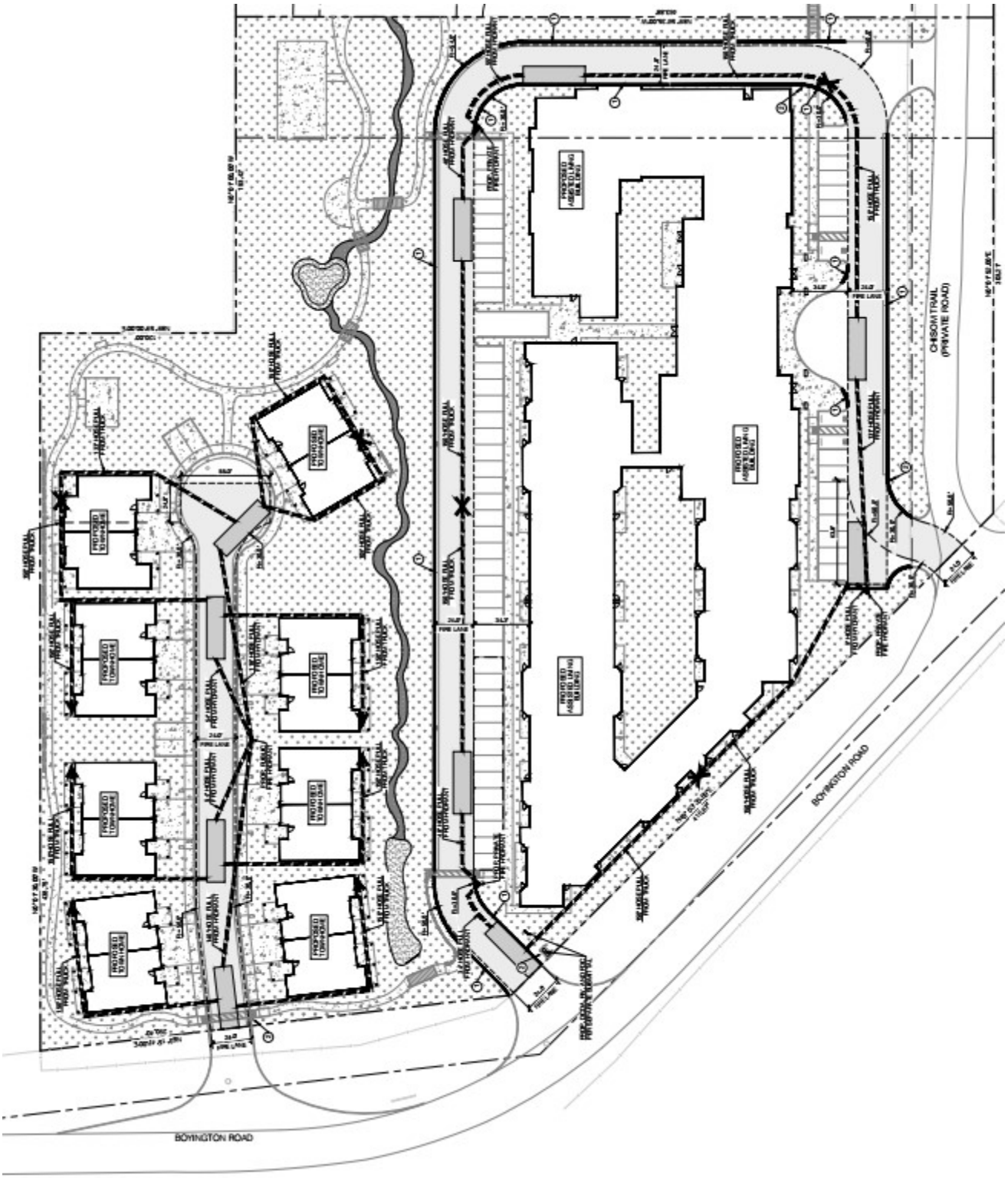

Noise map height 1.5m (A-weighted)
30 35 40 45 50 55 60 65 70 75 80+
0m
100m


Noise map height 1.5m (A-weighted)
30 35 40 45 50 55 60 65 70 75 80+
0m
25m

30 35 40 45 50 55 60 65 70 75 80+
0m
25m
CHISOM TRAIL
BOYINGTON ROAD
SETBACK LINE

Site Plan

The proposed two-story assisted-living building and single-story independent-living cottages are planned to be arranged as shown in the figure below.



Exterior Construction

The following section describes the various exterior building elements used in our calculations, based on the provided drawings and details and correspondence with the client. The architectural details used in these calculations are provided in Appendix A.

Exterior Wall Assemblies

Based on communication with the client, our understanding is that all exterior walls will be wood-framed stucco/gypsum walls. The following construction (exterior to interior) is assumed in our transmission calculations.

- 1/2”-thick stucco
- 1/2” plywood sheathing
- 2x6 wood studs 16” o.c. w/ R19 insulation
- One layer 5/8” gypsum board

This construction has a lab-tested rating of approximately STC-40 / OITC-29 with the construction listed above. Ratings may be slightly higher if a thicker stucco layer is used in the building’s actual construction.

Where acoustically-enhanced exterior walls are required to meet interior DNL criteria (see the following section), **a resilient acoustical isolation clip system is recommended, such as IsoMax by Kinetics Noise Control, or GenieClip RST by Pliteq.** This assembly is detailed below.

- 1/2”-thick stucco
- 1/2” plywood sheathing
- 2x6 wood studs 16” o.c. w/ R19 insulation
- Acoustical isolation clips
- 7/8” 25-gauge hat track
- One layer 5/8” gypsum board

The construction listed above (exterior to interior) achieves a laboratory rating of approximately STC-56 / OITC-40. Clip systems must be installed according to manufacturer specifications to achieve their published noise-isolation ratings.

Standard resilient channels are not recommended as they are frequently installed incorrectly, significantly damaging acoustical performance. However, if resilient channels are still desired for acoustically-enhanced walls, then the following construction may be used. This construction meets a laboratory-tested rating of approximately STC-52 / OITC-38.

- 1/2”-thick stucco
- 1/2” plywood sheathing
- 2x6 wood studs 16” o.c. w/ R19 insulation
- Clark Dietrich RC-Deluxe resilient furring channels 24”o.c.
- One layer 5/8” gypsum board

If resilient channels are used, Clark Dietrich RC-Deluxe must be specified, and substitutions not allowed. All manufacturer specifications and installation guidelines must be followed precisely, with special attention paid to correct channel orientation, screw hole position, and screw length. Contractor adherence to specifications and guidelines must be closely monitored throughout installation to ensure laboratory-rated performance in-field.

Windows and Entry Doors

For our calculations we have assumed all windows and exterior glass doors to include typical 1”-thick insulated glazing units in a 1/4”-1/2”-1/4” configuration (approximately STC-35 / OITC-28). Where acoustically-enhanced exterior glazing is required (see the following section), a minimum performance of STC-40 and OITC-31 is needed.

- Typical 1/4”-1/2”-1/4” glazing (STC-35 / OITC-28) is sufficient to reduce interior noise levels in habitable rooms to below 45 dBA DNL in the majority of the project’s residential units.

- For residential units containing south- and southeast-facing exterior walls facing I-80 (see figures in following section for specific units), glazings with a minimum STC-40 / OITC-31 performance will be required. One possible configuration meeting this criterion is the following 1-1/8" glazing:

    - 3/8" laminated pane
    - 1/2" air space
    - 1/4" monolithic pane

- Other glazing configurations for exterior windows are acceptable, provided that they meet the minimum recommended ratings of STC-35 / OITC-28 for standard assemblies and STC-40 / OITC-31 for acoustically-enhanced assemblies. Submittals for selected windows should be provided to RNS for review and approval.

- We recommend adding notes to the drawings and/or specifications clarifying that all indicated south- and southeast-facing glazings must have minimum STC-40 and OITC-31 ratings, and that remaining glazings should meet at least STC-35 and OITC-28. It may not be possible for composite door assemblies (including frames and seals) to meet these ratings, but doors should be fully sealed with perimeter gasketing systems, thresholds, and sweeps to maximize their acoustical performance.

Heating & Cooling

- Our noise transmission calculations are based on all operable windows being closed. Per Chapter 4 of the California Mechanical Code, "If interior allowable noise levels are met by requiring the windows be unopenable or closed, the design for the structure must also specify mechanical ventilation or air-conditioning to provide a habitable interior environment."

- We understand that PTAC units are being considered for the project. This would create significant sound leaks in the building façade, likely causing interior noise limits to be exceeded. For this reason, we recommend against PTAC units, and instead recommend an alternate heating and cooling method such as mini-split systems.

- Project noise impact to surroundings is not included in the current acoustical scope. However, a preliminary calculation shows that exterior heat pumps having a sound power (PWL) not exceeding 71 dBA, and a free-field sound pressure level (SPL) not exceeding 57 dBA at five feet, will prevent the project from exceeding the 65 dBA DNL property-line noise limit at neighboring properties. This simplified DNL calculation assumes one exterior heat pump per residential unit, with each heat pump operating an average of 50% of the time.

Penetrations

- Any penetrations through the exterior walls or roof-ceiling shall be sealed airtight at the interior gypsum board using a non-hardening acoustical sealant such as Pecora AC-20/FTR, Owens Corning QuietZone, SikaFlex, or approved equal. Penetrations on the exterior face shall be sealed airtight using sealant and flashing or other methods required to maintain waterproofing and fire-ratings, as determined by others.

Exterior-to-Interior DNL Calculation

Floor Plans and Exterior Element Takeoffs

The floor plans were reviewed to determine the representative habitable room configurations (rooms with unique combinations of exterior element areas). For each representative room, the relative areas of the exterior building elements were determined. The relevant pages of the Architectural drawings and room takeoffs are attached as Appendix A.

Acoustical Performance of the Exterior Envelope

Based on the exterior building element acoustical performance and room takeoffs, we have calculated the composite transmission loss (TL) values of the exterior envelope for each representative room. The composite transmission loss accounts for the individual transmission losses and relative areas of each building façade element. The results of the composite transmission loss calculations are included in Appendix B.

Outdoor-to-Indoor Noise Level Calculation

Finally, we calculated the interior sound level based on the standard ISO 12354-3:2017 "Building Acoustics – Estimation of Acoustic Performance of Building from the Performance Elements – Part 3 – Airborne Sound Insulation Against Outdoor Sound." This calculation accounts for the Composite Transmission Loss of the exterior envelope, the surface area of the exterior envelope, the volume of the room, and the reverberation time in the room. The exterior DNL spectrum is based on our on-site measurements and the average spectrum measured over 24 hours, including the DNL penalties for evening and night. Results of these calculations are included in Appendix B.

Acoustically-Enhanced Exterior Partitions

As previously stated, certain residential units with south- and southeast-facing exterior facades facing Highway I-80 – and located in close proximity to the same – will require acoustically enhanced partition constructions in order to comply with the 45 dBA DNL limit imposed by the Loomis Municipal Code and California Building Code. The following figure illustrates the units that will require these acoustically-enhanced exterior partitions. These units include:

- Project Phase 1 – Habitable rooms within assisted-living residences containing exterior partitions that are located within approximately 100 feet of Boyington Road.

- Project Phase 2 – Habitable rooms within independent-living townhome residences containing south-facing exterior partitions within Cottage #1 and Cottage #5.

The units requiring these enhanced exterior partitions are shown highlighted in the following figures. All red-shaded residential units will require the previously-described acoustical upgrades (STC-52+ / OITC-38+ walls and STC STC-40+ / OITC-31+ glazings) for all of their exterior partitions.

Conclusions

Based on our analysis, the majority of planned residential units in this project will comply with the 45 dBA DNL limits imposed by the City of Loomis Municipal Code and the California Building Code. The remaining residential units (8 total units, as highlighted in previous figures) will require acoustically-enhanced exterior partitions in order to comply. These enhanced partitions are necessary only for the habitable rooms within the units previously indicated.

Comments

This report is based on our best understanding of the current design intent and project goals. If any of the project conditions or design goals change significantly, we reserve the right to modify our analysis and recommendations. Feel free to call if you have any questions or comments.

Sincerely,
RNS Acoustics

Ryan A. Sema
Principal/ Owner
RNS Acoustics, LLC

Enclosed:

Appendix A – Revised Planning Submittal Package with Exterior Element Takeoffs and Notes
Appendix B – Composite Transmission Loss and Exterior-to-Interior DNL Calculation Results

Appendix A:

Revised Planning Submittal Package (11/01/2023) with Exterior Element Takeoffs and Notes

CREEKSTONE SENIOR LIVING

NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

SCOPE OF WORK

.

SENIOR LIVING COMMUNITY ON 6.6 ACRES OF VACANT LAND.
PROJECT CONSISTS OF 115 UNITS ,97 PARKING SPACES , INDOOR AND OUTDOOR RECREATIONAL AREAS .

THE UNIT TYPE CONSIST OF 35 ASSISTED LIVING UNITS AND 80 INDEPENDENT LIVING UNITS .

CODE ADOPTED

2022 CALIFORNIA BULIDING CODE, PART 2, VOLUMES 1 AND 2

2022 CALIFORNIA ELECTRICAL CODE, PART 3

2022CALIFORNIA MECHANICAL CODE, PART 4

2022CALIFORNIA PLUMBING CODE, PART 5

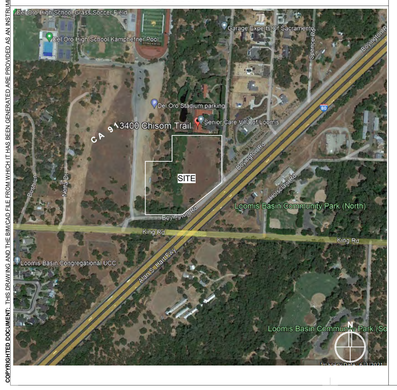
2022 CALIFORNIA ENERGY CODE, PART 6

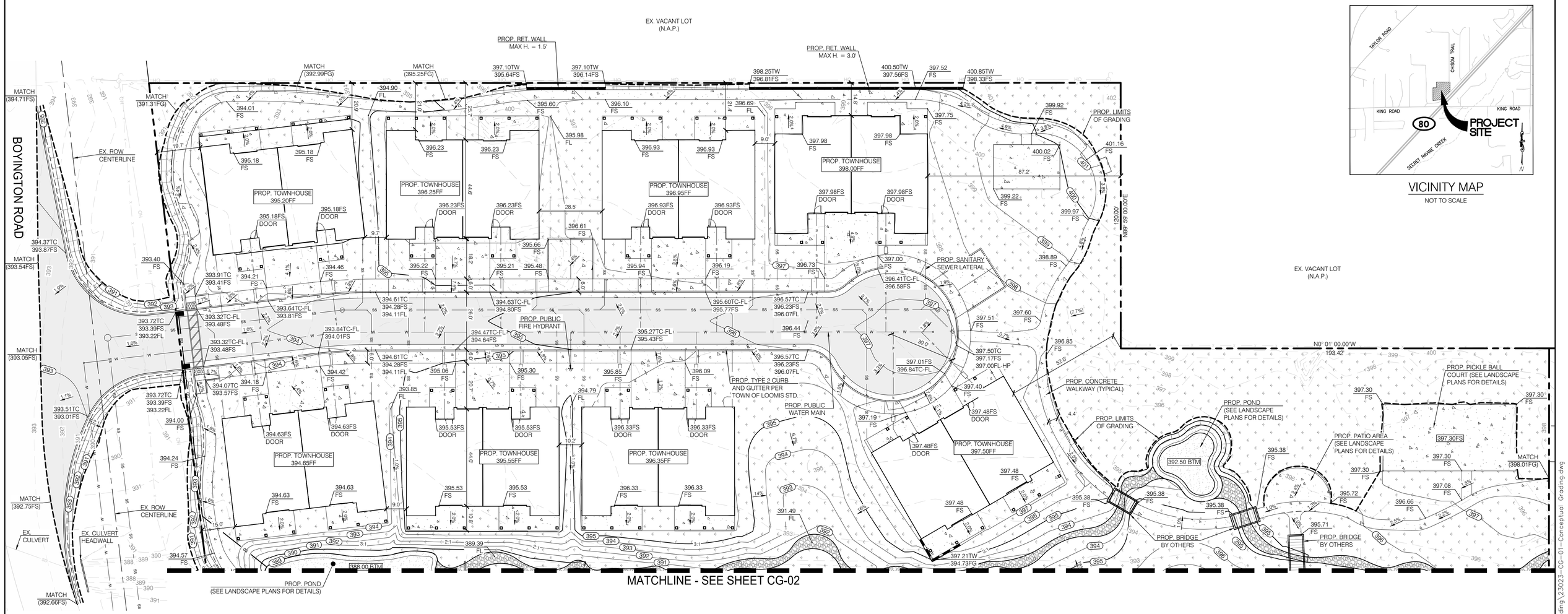
2022 CALIFORNIA FIRE CODE, PART 9

2022 CALIFORNIA GREEN BUILDING CODE, PART 11

2022 CALIFORNIA EXISTING BUILDING, HISTORIC AND REFERENCE STANDARD CODES, PART 8, 10, AND 12

VICINITY MAP


CA 6
13400 Chisom Trail
SITE
Loomis Basin Community Park (North)
Loomis Basin Community Park (South)
Loomis Basin Golf Course
Loomis Basin Community Park
Loomis Basin Community Park
Loomis Basin Community Park



VICINITY MAP

NOT TO SCALE

LEGEND:

- PROPERTY LINE
- CENTERLINE
- EXISTING EASEMENT
- PROPOSED A.C. PAVEMENT
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE
- EXISTING CONTOURS
- PROPOSED CONTOURS
- EXISTING WATERLINE
- PROPOSED WATERLINE
- PROPOSED FIRE LINE
- EXISTING SEWER PIPE
- PROPOSED SEWER PIPE
- EXISTING ELECTRIC LINE
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED RETAINING WALL
- PROPOSED FLOWLINE

OWNERS/DEVELOPERS

BREAKERS RE
153 SOUTH SIERRA #1267
SOLANA BEACH, CA 92075

CIVIL ENGINEER

COMMERCIAL DEVELOPMENT RESOURCES
695 TOWN CENTER DRIVE, SUITE #110
COSTA MESA, CA 92626
CONTACT: AARON ALBERTSON, P.E.
TEL: 949.610.8997

ARCHITECT

GOREE WHITFIELD
24691 DEL PREDO AVE.
DANA POINT, CA 92629
CONTACT: SUGANYA RAMADURAI
TEL: 310.809.4619

EARTHWORK CALCS:

CUT:	11,260 CY
FILL:	9,180 CY
NET EXPORT:	2,080 CY

NOTE:
THESE ARE ENGINEERS ESTIMATES ONLY. THESE QUANTITIES ARE MEANT FOR BONDING AND PERMITTING PURPOSES ONLY. CONTRACTOR TO PERFORM THEIR OWN TAKE-OFFS FOR BIDDING AND CONSTRUCTION PURPOSES. REFERENCE SOIL REPORT.

THESE CALCULATIONS ARE PRELIMINARY ONLY. STRUCTURAL PAVEMENT SECTIONS TO BE INCORPORATED DURING FINAL DESIGN PHASE.

SURVEYOR

KLIMA LAND SURVEYS
5716 FOLSOM BLVD, SUITE 271
SACRAMENTO, CA 95819
CONTACT: KRISTOPHER KLIMA, P.L.S.
TEL: 916.416.6338

SITE ADDRESS

3400 CHISOM TRAIL
LOOMIS, CA 95650

APN:

043-050-024

LEGAL DESCRIPTION

GRANT DEED DOC. NO. 2022-0035354-00

THE LAND HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF PLACER, UNINCORPORATED AREA, AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:
THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 3, TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.B.&M., INCLUDED WITHIN THE LAND SHOWN AND DESIGNATED AS PARCEL D, ON PARCEL MAP NO. 71108, FILED FOR RECORD IN THE OFFICE OF THE RECORDER OF PLACER COUNTY, CALIFORNIA, ON OCTOBER 29, 1976, IN BOOK 9 OF PARCEL MAPS, AT PAGE 44, PLACER COUNTY RECORDS.

PARCEL TWO:
THAT PORTION OF PARCEL MAP 71108 FILED IN BOOK 9 OF PARCEL MAPS AT PAGE 44, PLACER COUNTY RECORDS. LOCATED IN THE SOUTHEAST ¼ OF SECTION 3 TOWNSHIP 11 NORTH, RANGE 7 EAST, M.D.M TOWN OF LOOMIS, CALIFORNIA, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF THE TRACT OF LAND DESCRIBED HEREBY, SAID POINT BEING IDENTICAL WITH THE SOUTHEAST CORNER OF PARCEL C OF SAID PARCEL MAP; THENCE NORTH 00 DEGREES 01 MINUTES 52 SECONDS EAST FROM THE POINT OF BEGINNING ALONG THE EAST LINE OF SAID PARCEL C FOR A DISTANCE OF 73.50 FEET THEN NORTH 89 DEGREES 58 MINUTES 08 SECONDS WEST 463.88 FEET TO THE WEST LINE FOR A DISTANCE OF 73.50 FEET TO THE SOUTH WEST CORNER OF SAID PARCEL C; THENCE SOUTH 89 DEGREES 58 MINUTES 08 SECONDS EAST ALONG SAID SOUTH LINE FOR A DISTANCE OF 463.82 FEET TO THE POINT OF BEGINNING.

PARCEL THREE:
A NON-EXCLUSIVE EASEMENT FOR ROAD AND UTILITY PURPOSES OVER, UNDER AND ACROSS A PORTION OF SECTION 3, TOWNSHIP 11 NORTH, RANGE 7 EAST M.D.B.&M., INCLUDED WITHIN THE LAND SHOWN AND DESIGNATED AS AREA "K" OF PARCEL MAP NO. 71108, FILED IN THE OFFICE OF THE PLACER COUNTY RECORDER ON OCTOBER 29, 1976, IN BOOK 9 OF PARCEL MAPS, AT PAGE 44.

EXCEPTING THEREFROM THAT PORTION LYING WITHIN PARCEL ONE ABOVE.

APN: 043-050-024

EASEMENT NOTES:

1. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS DELINEATED OR AS OFFERED FOR DEDICATION, ON THE MAP OF SAID TRACT/PLAT;

   PURPOSE: ROAD AND UTILITIES
   AFFECTS: EASTERLY 50'
   RECORDING NO.: OCTOBER 29, 1976 IN BOOK 9 OF PARCEL MAPS, PAGE 44
   PURPOSE: DITCH OR CANAL
   AFFECTS WESTERLY PORTION OF SAID LAND
   THIS ITEM IS SHOWN ON SHEET C2.0

2. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

   GRANTED TO: GILBERT W. VLOT, ET A
   PURPOSE: ROAD AND UTILITIES
   RECORDING DATE: MARCH 22, 1978
   RECORDING NO.: BOOK 1978, PAGE 29, OF OFFICIAL RECORDS
   AFFECTS: EASTERLY 50 FEET
   THIS ITEM IS SHOW ON SHEET C2.0

ABBREVIATIONS:

(XX.XX)	EXISTING ELEVATION
BOW	BACK OF WALK
BTM	BOTTOM
CF	CURB FACE
ELEV	ELEVATION
ELEC	ELECTRICAL
EX	EXISTING
FF	FINISH FLOOR
FL	FLOW LINE
FG	FINISH GRADE
FS	FINISH SURFACE
FW	FIRE WATER LINE
GB	GRADE BREAK
GM	GAS METER
INV	INVERT
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
PROP	PROPOSED
SS	SANITARY SEWER
CO	CLEANOUT
SD	STORM DRAIN
OC	ON CENTER
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TOP OF WALL
TYP	TYPICAL
W	WIDTH
WM	WATER METER

UTILITY NOTE:

ALL UTILITIES SHOWN HEREIN ARE BASED ON PRELIMINARY ASSUMPTIONS AND SHALL NOT BE FINAL IN ANY WAY. THOROUGH UTILITY DESIGN, SIZING AND LAYOUT WILL BE COMPLETED DURING THE FINAL DESIGN PHASE.

20 0 20 40
GRAPHIC SCALE
SCALE: 1" = 20'

REVISIONS

NUMBER	DATE		APPVD.

DRAWN BY: WRA
CHECKED BY: HMY
DATE: 01/03/24

BENCHMARK:
THE BENCHMARK USED FOR THIS SURVEY WAS OBSERVED AS "SACRAMENTO COOP CORS ARP" AS PUBLISHED IN NATIONAL GEODETIC SURVEY RECORDS.

CORS_ID:	SACR
PID:	DH8725
DESCRIPTION:	STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE BY ANONYMOUS FTP OR THE WORLDWIDE WEB.
ELEVATION:	124.6 (NAVD 88)

PLANS PREPARED BY:

AARON M. ALBERTSON — 01/03/24
R.C.E. 65513, EXP. 09/30/25 — DATE

REGISTERED PROFESSIONAL ENGINEER
AARON M. ALBERTSON
NO. 65513
EXP. 9/30/25
CIVIL
STATE OF CALIFORNIA

Commercial Development Resources
Today's Ideas. Tomorrow's Reality.
695 Town Center Drive #110 Costa Mesa CA 92626
T 949-610-8997 www.CDRwest.com

BASIS OF BEARINGS:
THE BASIS OF BEARINGS WAS TAKEN BETWEEN FOUND MONUMENTS ON THE WEST LINE OF PARCEL D, 09 PM 44, PLACER COUNTY RECORDS. BEARING BEING N0° 01' 30"W.

CONCEPTUAL GRADING PLAN (WEST)

CREEKSTONE SENIOR LIVING
3400 CHISOM TRAIL
LOOMIS, CA 95650
APN: 043-050-024

SHEET
CG-01
01 OF 02

S:\Projects\23023\23023_Goree Whitfield_Assisted Living_3400 Chisom Trail_Loomis CA\Design\Preliminary Grading\23023-CG-01-Conceptual Grading.dwg

MATCHLINE - SEE SHEET CG-01

PROP. POND (SEE LANDSCAPE PLANS FOR DETAILS)

PROPOSED RETAINING WALL

PROPOSED RAMP WITH HANDRAILS

388.00 BTM

394.68 BOW

394.57 FS

394.73 FS

398.70TC 398.20FS

399.22TC 398.88FS 398.72FL-HP

PROP. BRIDGE BY OTHERS

EX. ROW CENTERLINE

394.80 BOW

394.73 FS

PROP. LIMITS OF GRADING

396.59TC 396.09FS

399.19TC 398.69FS

PROPOSED RETAINING WALL MAX H. = 4.5'

397.85 TG-CC

397.77 FS

397.21TW 394.73FG

PROPOSED CREEKBED (SEE LANDSCAPE PLANS FOR DETAILS)

398.35TC 397.85TG

PROP. TYPE 2 CURB AND GUTTER PER TOWN OF LOOMIS STD.

395.71 FS

PROP. BRIDGE BY OTHERS

PROP. CREEKBED

PROP. RE-DEVELOPMENT (N.A.P.)

397.79 FS

398.21TC 397.71FL

MATCH (397.20FS)

PROP. PRIVATE FIRE HYDRANT

PROP. LIMITS OF GRADING

PROP. STORM DRAIN PIPE

MATCH (392.65FS)

394.58TC 394.08FS

394.25TC 393.75FS

399.64TC 399.14FS

399.75TC 399.25FS

399.96TC 399.46FS

130.0' - 13 COVERED SPACES

399.71TC 399.21FS

399.85TC 399.35FS

398.82TC 398.32FS

398.94TC 398.44FS

399.18TC 398.68FS

399.28 FS

399.49TC 398.99FS

399.09TC 398.76FS 398.59FL

400.33 FS

400.27TC 399.77FS

400.28TC 399.78FS

400.07 FS

400.37 FS

PROP. PRIVATE FIRE HYDRANT

400.98FS DOOR

PROP. COVERED PARKING OVERHANG

400.76TC 400.26FS

493.9'

395.10TC 394.60FS

394.50TC 394.00FS

400.77 FS

401.00FS DOOR

MATCH (393.01FS)

PROP. SAWCUT & JOIN PER TOWN STANDARD

MATCH (393.76FS)

PROP. WATER MAIN

PROP. LIMITS OF GRADING

PROPOSED BUILDING FF=401.00

162.8'

138.5'

14.6'

8.4'

26.0'

MATCH (399.38FG)

MATCH (395.59FS)

BOYINGTON ROAD

EX. SANITARY SEWER MAIN

PROP. WATER PIPE

EX. ROW CENTERLINE

PROP. PRIVATE FIRE HYDRANT

400.36TC 399.86FS

400.13TC 399.80FS 399.63FL

399.89TC 399.56FS 399.39TG

399.80 FS

PROP. SEWER LATERAL

399.98 FS

400.72TC 400.22FS

400.60TC 400.10FS

400.63TC 400.13FS

400.76TC 400.26FS

400.99TC 400.49FS

400.42 FS

PROP. RET. WALL MAX H. = 2.5'

401.50 TOW

403.40 TOW

403.49 TOW

403.72 FS

402.24TC 402.24FS

402.52TC 402.52FS

403.06TC 402.56FS

403.66TC 403.16FS

402.96FS 405.77TOW

411.70FS 415.70TOW

PROP. STAIRS (15) 7" RISERS

PROP. RETAINING WALL MAX H. = 4'

MATCH (412.19FS)

411.87FS 414.48TOW

PROP. INLET TO INTERCEPT OFFSITE RUN-ON

405.59TC 405.09FS

403.16TC 402.66FS

PROP. TYPE 2 CURB AND GUTTER PER TOWN OF LOOMIS STD.

407.50 TG

EX. FLOWLINE

399.54TC 399.04FS

401.33TC 400.83FS 399.19FL

399.69TC 399.35FS 399.04FS 398.87TG

400.30TC 399.96FS 399.80FL

MATCH (398.78FS)

MATCH (397.06FS)

MATCH (399.02FS)

MATCH (402.76FS)

PROP. LIMITS OF GRADING

CHISOM TRAIL (PRIVATE ROAD)

EXISTING ROAD AND UTILITIES EASEMENT

MATCH (405.98FS)

MATCH (408.41FS)

SAWCUT AND JOIN PER LOCAL STANDARDS

SAWCUT AND JOIN PER TOWN STANDARDS

EXTEND EXISTING WATER MAIN BENEATH BOYINGTON ROAD

EX BUILDING (N.A.P.)

GB

LEGEND:

- PROPERTY LINE
- CENTERLINE
- EXISTING EASEMENT
- PROPOSED A.C. PAVEMENT
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE
- EXISTING CONTOURS (400 / 399)
- PROPOSED CONTOURS (395 / 394)
- EXISTING WATERLINE
- PROPOSED WATERLINE
- PROPOSED FIRE LINE
- EXISTING SEWER PIPE
- PROPOSED SEWER PIPE
- EXISTING ELECTRIC LINE
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- PROPOSED RETAINING WALL
- PROPOSED FLOWLINE
- EXISTING FLOWLINE
- ROOF OVERHANG

20 0 20 40

GRAPHIC SCALE
SCALE: 1" = 20'

REVISIONS

NUMBER	DATE		APPVD

DRAWN BY: WRA
CHECKED BY: HMY
DATE: 01/03/24

BENCHMARK:
THE BENCHMARK USED FOR THIS SURVEY WAS OBSERVED AS 'SACRAMENTO COOP CORS ARP' AS PUBLISHED IN NATIONAL GEODETIC SURVEY RECORDS.
CORS_ID: SACR
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DESCRIPTION: STATION IS A GPS CORS. LATEST INFORMATION INCLUDING POSITIONS AND VELOCITIES ARE AVAILABLE IN THE COORDINATE AND LOG FILES ACCESSIBLE BY ANONYMOUS FTP OR THE WORLDWIDE WEB.
ELEVATION: 124.6 (NAVD 88)

PLANS PREPARED BY:

AARON M. ALBERTSON
R.C.E. 65513, EXP. 09/30/25

01/03/24
DATE

REGISTERED PROFESSIONAL ENGINEER
AARON M. ALBERTSON
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T 949-610-8997 www.CDRwest.com

BASIS OF BEARINGS:
THE BASIS OF BEARINGS WAS TAKEN BETWEEN FOUND MONUMENTS ON THE WEST LINE OF PARCEL D, 09 PM 44, PLACER COUNTY RECORDS. BEARING BEING N0° 01' 30"W.

CONCEPTUAL GRADING PLAN (EAST)

CREEKSTONE SENIOR LIVING
3400 CHISOM TRAIL
LOOMIS, CA 95650
APN: 043-050-024

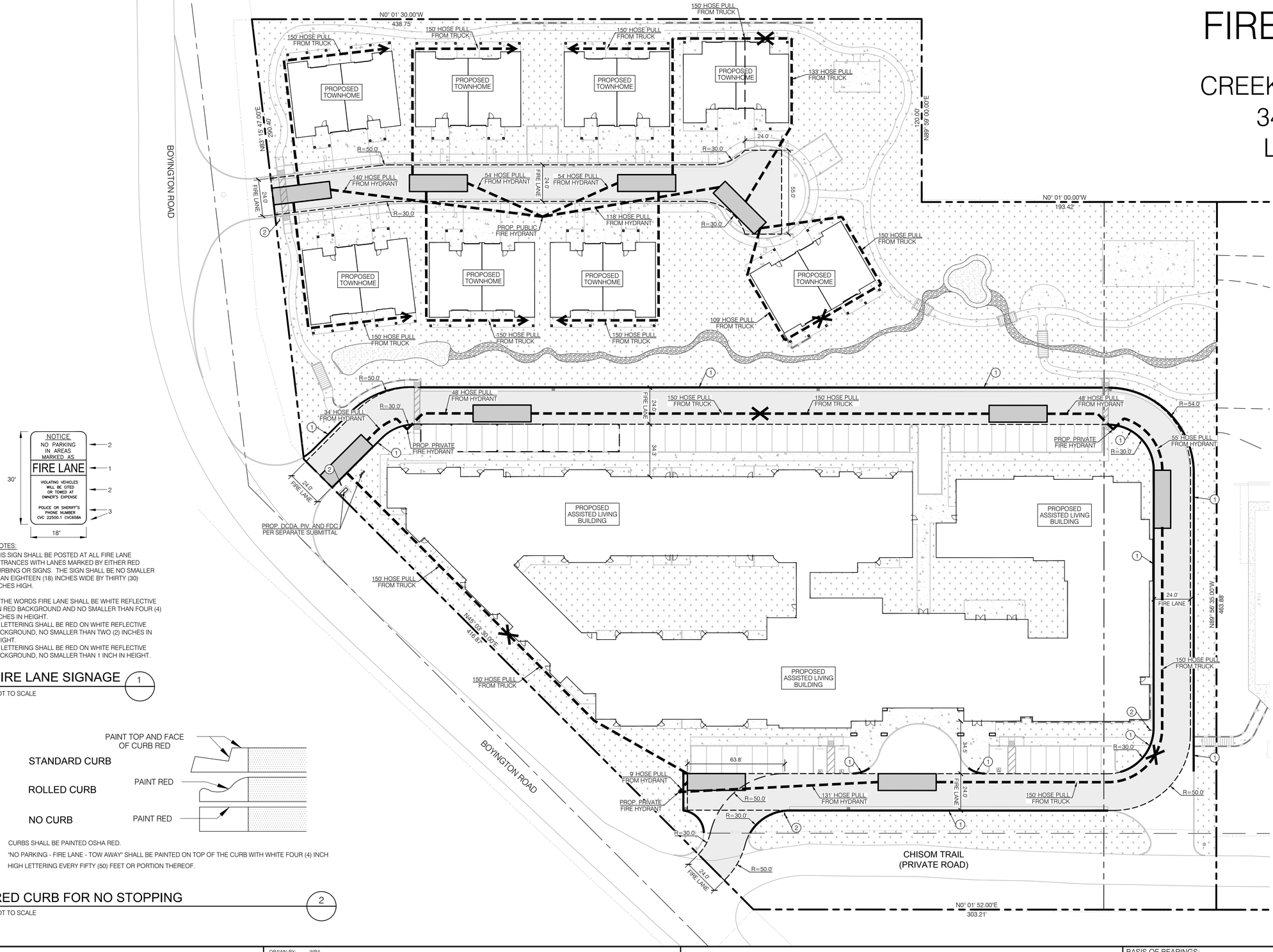
SHEET
CG-02
02 OF 02

S:\Projects\2023\23023_Goree Whitfield_Assisted Living_3400 Chisom Trail_Loomis CA\Design\Preliminary Grading\23023-CG-01-Conceptual Grading.dwg

FIRE MASTER PLAN

FOR

CREEKSTONE SENIOR LIVING
3400 CHISOM TRAIL
LOOMIS, CA 95650



LEGEND

- FIRE HOSE PULL
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE LANE
- FIRE TRUCK (11' X 38')
- PROPOSED RED CURB

PROJECT DATA:

APN:	043-050-023
	043-050-024
TOTAL SITE AREA:	6.60 ACRES
GROSS BLDG AREA:	79,354 SF
BUILDING HEIGHT:	< 30 FT
TYPE OF CONSTRUCTION:	TBD
OCCUPANCY:	RESIDENTIAL
ZONING:	CO - OFFICE/COMMERCIAL

SCOPE OF WORK TO BE DONE:

THE PROJECT PROPOSES TO CONSTRUCT AN ELDER CARE FACILITY ON AN UNDEVELOPED PARCEL. THE DEVELOPMENT WILL INCLUDE ONE (1) LARGE MULTI-UNIT STRUCTURE AS WELL AS EIGHT (8) SPLIT UNIT STRUCTURES.

THIS PROJECT ALSO PROPOSES TO INCLUDE ALL NECESSARY INFRASTRUCTURE IMPROVEMENTS SUCH AS UTILITY UPGRADES, PARKING UPGRADES, DRAINAGE UPGRADES, AND GRADING.

SITE CONSTRUCTION NOTES:

1. INSTALL RED CURB FOR NO FIRE LANE PARKING PER DETAIL 2, THIS SHEET.
2. INSTALL "NO PARKING FIRE-LANE TOW-AWAY" SIGNAGE AND POST PER DETAIL 1, THIS SHEET.

NOTES:

THIS SIGN SHALL BE POSTED AT ALL FIRE LANE ENTRANCES WITH LANES MARKED BY EITHER RED CURBING OR SIGNS. THE SIGN SHALL BE NO SMALLER THAN EIGHTEEN (18) INCHES WIDE BY THIRTY (30) INCHES HIGH.

1. THE WORDS FIRE LANE SHALL BE WHITE REFLECTIVE ON RED BACKGROUND AND NO SMALLER THAN FOUR (4) INCHES IN HEIGHT.
2. LETTERING SHALL BE RED ON WHITE REFLECTIVE BACKGROUND, NO SMALLER THAN TWO (2) INCHES IN HEIGHT.
3. LETTERING SHALL BE RED ON WHITE REFLECTIVE BACKGROUND, NO SMALLER THAN 1 INCH IN HEIGHT.

FIRE LANE SIGNAGE (1)

NOT TO SCALE

1. CURBS SHALL BE PAINTED OSHA RED.
2. "NO PARKING - FIRE LANE - TOW AWAY" SHALL BE PAINTED ON TOP OF THE CURB WITH WHITE FOUR (4) INCH HIGH LETTERING EVERY FIFTY (50) FEET OR PORTION THEREOF.

RED CURB FOR NO STOPPING (2)

NOT TO SCALE

30 0 30 60

GRAPHIC SCALE
SCALE: 1" = 30'

REVISIONS

NUMBER	DATE		APP'VD

DRAWN BY: WRA
CHECKED BY: HMY
DATE: 01/03/24

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ELEVATION: 124.6 (NAVD 88)

PLANS PREPARED BY:

AARON M. ALBERTSON
R.C.E. 65513, EXP. 09/30/23

01/03/24
DATE

REGISTERED PROFESSIONAL ENGINEER
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FIRE MASTER PLAN

CREEKSTONE SENIOR LIVING
3400 CHISOM TRAIL
LOOMIS, CA 95650
APN: 043-050-024

SHEET
FM-01
01 OF 01

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LEGEND

1. ENHANCED CONCRETE PAVING AT BUILDING ENTRY AND COURTYARD
2. NATURAL GRAY CONCRETE PAVING
3. ENHANCED CONCRETE PAVING AT DRIVEWAY ENTRY
4. DROUGHT TOLERANT PLANTING
5. EXISTING TREES
6. ACCENT TREES
7. SCREENING TREES
8. SHADE TREES
9. PUTTING GREEN
10. PICKLE BALL
11. CABANA
12. PERIMETER FENCE
13. COBBLE CREEK AND POND
14. EXISTING LANDSCAPE
15. VEGETABLE GARDEN WITH DG PAVING
16. CORNHOLE COURT
17. MONUMENT SIGN
18. FLAG POLE
19. RETAINING WALL

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Goree Whitfield
24691 Del Prado Ave
Dana Point, CA 92629
949 -234 -1950
www.goreewhitfield.com

CONSULTANTS

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CONSULTANT #1 - NAME
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PHONE NUMBER
WEBSITE

LANDSCAPE
RIDGE LANDSCAPE ARCHITECTS
8841 RESEARCH DR., #200, Irvine
949-387-1323 EXT.30

CONSULTANT #3 - DISCIPLINE
CONSULTANT #3 - NAME
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PHONE NUMBER
WEBSITE

CONSULTANT #4 - DISCIPLINE
CONSULTANT #4 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #5 - DISCIPLINE
CONSULTANT #5 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING

PROJECT DESCRIPTION
24-HOUR RESIDENTIAL CARE FACILITY FOR THE ELDERLY (ASSISTED LIVING & INDEPENDENT LIVING)AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
3400 CHISOM TRAIL, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
01/02/2024

KEY PLAN

SHEET NAME
PRELIMINARY LANDSCAPE PLAN

SHEET NUMBER
L1.1

© GOREE WHITFIELD 2023

PROPOSED PLANT PALETTE

GROUNDCOVERS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	ACACIA REDOLENS 'LOW BOY'	PROSTRATE ACACIA	1 GAL.	8' O.C.	L	EVERGREEN GROUNDCOVER
	BACCHARIS P. 'PIGEON POINT'	DWARF COYOTE BRUSH	1 GAL.	48" O.C.	L	EVERGREEN GROUNDCOVER
	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	1 GAL.	36" O.C.	L	FLOWERING GROUNDCOVER
	MYOPORUM PARVIFOLIUM	MYOPORUM	1 GAL.	36" O.C.	L	EVERGREEN GROUNDCOVER
	ROSA X 'FLOWER CARPET RED'	RED CARPET ROSE	1 GAL.	36" O.C.	M	FLOWERING GROUNDCOVER
	ROSMARINUS O. 'HUNTINGTON CARPET'	PROSTRATE ROSEMARY	FLATS	12" O.C.	L	EVERGREEN GROUNDCOVER
	SALVIA 'BEE'S BLISS'	BEE'S BLISS SAGE	1 GAL.	36" O.C.	L	FLOWERING GROUNDCOVER

BIOSWALE GRASSES

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	CAREX PANSA	CALIFORNIA MEADOW SEDGE	1 GAL.	24" O.C.	M	BIOSWALE GRASS
	CAREX TUMICOLA	FOOTHILL SEDGE	1 GAL.	24" O.C.	L	BIOSWALE GRASS
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL.	18" O.C.	L	BIOSWALE GRASS

VINES

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
▼	DISTICTUS BUCCINATORIA	BLOOD-RED TRUMPET VINE	1 GAL./ STAKED		M	FLOWERING VINE

PROPOSED PLANT PALETTE

TREES

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE / FORM	HT. X SPRD. X CAL. (MIN.)	WATER USE	DESCRIPTION
	ACER PALMATUM	JAPANESE MAPLE	24" BOX STD.	8'H X 5'W X 2" C	M	SMALL DECIDUOUS ACCENT
	ACER RUBRUM	RED MAPLE	24" BOX STD.	10'H X 5'W X 2" C	M	DECIDUOUS CANOPY
	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REDBUD	24" BOX STD.	8'H X 3'W X 1-3/4" C	M	DECIDUOUS FLOWERING ACCENT
	LAGERSTROEMIA FAUERI 'MUSKOGEE'	MUSKOGEE CREPE MYRTLE	24" BOX STD.	8'H X4' W X 1-3/4" C	L	DECIDUOUS FLOWERING ACCENT
	QUERCUS DOUGLASII	BLUE OAK	24" BOX STD.	8'H X 5'W X 2" C	L	DECIDUOUS CANOPY
	QUERCUS WIZLIZENII	INTERIOR LIVE OAK	24" BOX STD.	8'H X 5'W X 2" C	L	DECIDUOUS CANOPY

BACKGROUND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	ACCA SELLOWIANA	PINEAPPLE GUAVA	5 GAL.	6' O.C.	M	LARGE FLOWERING
	LEUCOPHYLLUM F. 'GREEN CLOUD'	TEXAS RANGER	5 GAL.	5' O.C.	L	LARGE FLOWERING
	OLEA X MONTRA 'LITTLE OLLIE'	LITTLE OLLIE	5 GAL.	4' O.C.	L	INFORMAL SCREENING HEDGE
	RHAMNUS C. 'MOUND SAN BRUNO'	COFFEEBERRY	5 GAL.	5' O.C.	L	LARGE SHRUB
	SENNA ARTEMISIOIDES	FEATHERY CASSIA	5 GAL.	5' O.C.	L	LARGE FLOWERING

MIDGROUND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	DIANELLA TASMANICA 'VARIEGATA'	VARIEGATED FLAX LILY	5 GAL.	36" O.C.	M	STRAPPY ACCENT
	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL.	36" O.C.	L	FLOWERING ACCENT
	LANTANA 'GOLD MOUND'	YELLOW LANTANA	5 GAL.	36" O.C.	L	FLOWERING SHRUB
	MUHLENBERGIA C. 'REGAL MIST'	PINK MUHLY	5 GAL.	36" O.C.	L	ORNAMENTAL GRASS
	RHAPHIOLEPIS UMBELLATA	YEDDO HAWTHORNE	5 GAL.	36" O.C.	L	FLOWERING ACCENT
	ROSMARINUS O. 'TUSCAN BLUE'	ROSEMARY	1 GAL.	36" O.C.	L	FLOWERING ACCENT
	SALVIA CLEVELANDII 'ALLEN CHICKERING'	CLEVELAND SAGE	1 GAL.	48" O.C.	L	FLOWERING ACCENT
	SALVIA GREGGII	AUTUMN SAGE	1 GAL.	36" O.C.	L	FLOWERING ACCENT

FOREGROUND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	ARTEMISIA 'POWIS CASTLE'	ARTEMISIA	1 GAL.	30" O.C.	L	SHRUB
	CALLISTEMON 'LITTLE JOHN'	DWARF BOTTLEBRUSH	5 GAL.	30" O.C.	L	FLOWERING SHRUB
	COPROSMA X KIRKII	CREEPING COPROSMA	1 GAL.	36" O.C.	M	FLOWERING SHRUB
	COTONEASTER DAMMERI 'LOWFAST'	LOWFAST COTONEASTER	1 GAL.	36" O.C.	L	SPREADING MASS
	DIANELLA 'CASA BLUE'	CASA BLUE FLAX LILY	1 GAL.	24" O.C.	L	STRAPPY ACCENT
	ECHEVERIA 'RUFFLES'	RUFFLES ECHEVERIA	1 GAL.	18" O.C.	L	SUCCULENT ACCENT
	FESTUCA MAIREI	ATLAS FESCUE	1 GAL.	30" O.C.	M	ORNAMENTAL GRASS
	SESLARIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL.	30" O.C.	M	ORNAMENTAL GRASS

0 30 60 90

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24691 Del Prado Ave
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CONSULTANT #5 - NAME
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PROJECT ADDRESS
3400 CHISOM TRAIL, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
01/02/2024

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:

KEY PLAN

SHEET NAME
PRELIMINARY PLANTING PLAN

SHEET NUMBER
L2.1

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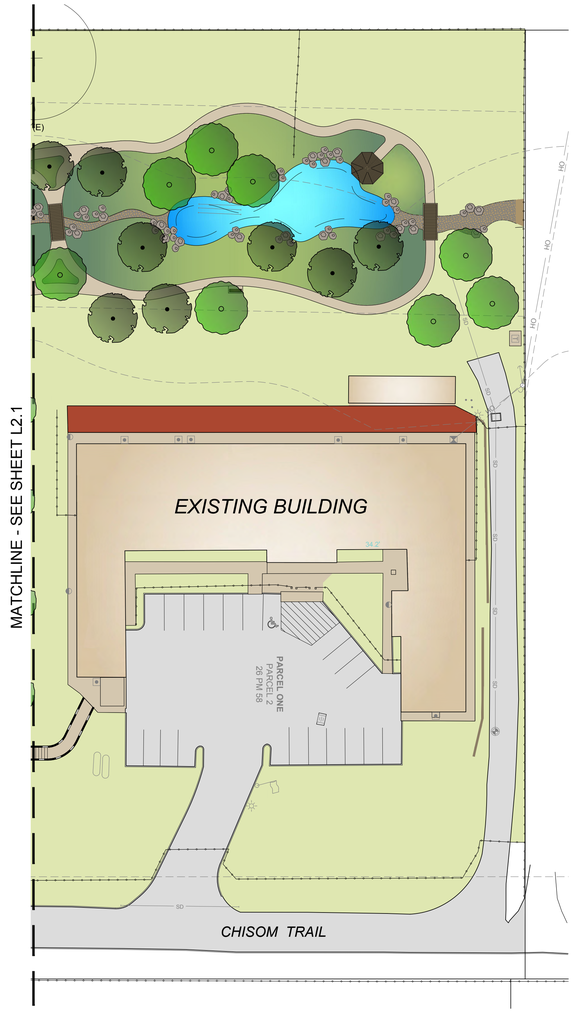

PROPOSED PLANT PALETTE

GROUNDCOVERS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	ACACIA REDOLENS 'LOW BOY'	PROSTRATE ACACIA	1 GAL.	8' O.C.	L	EVERGREEN GROUNDCOVER
	BACCHARIS P. 'PIGEON POINT'	DWARF COYOTE BRUSH	1 GAL.	48" O.C.	L	EVERGREEN GROUNDCOVER
	LANTANA 'NEW GOLD'	NEW GOLD LANTANA	1 GAL.	36" O.C.	L	FLOWERING GROUNDCOVER
	MYOPORUM PARVIFOLIUM	MYOPORUM	1 GAL.	36" O.C.	L	EVERGREEN GROUNDCOVER
	ROSA X 'FLOWER CARPET RED'	RED CARPET ROSE	1 GAL.	36" O.C.	M	FLOWERING GROUNDCOVER
	ROSMARINUS O. 'HUNTINGTON CARPET'	PROSTRATE ROSEMARY	FLATS	12" O.C.	L	EVERGREEN GROUNDCOVER
	SALVIA 'BEE'S BLISS'	BEE'S BLISS SAGE	1 GAL.	36" O.C.	L	FLOWERING GROUNDCOVER

BIOSWALE GRASSES

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	CAREX PANSA	CALIFORNIA MEADOW SEDGE	1 GAL.	24" O.C.	M	BIOSWALE GRASS
	CAREX TUMICOLA	FOOTHILL SEDGE	1 GAL.	24" O.C.	L	BIOSWALE GRASS
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL.	18" O.C.	L	BIOSWALE GRASS

VINES

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
▼	DISTICTUS BUCCINATORIA	BLOOD-RED TRUMPET VINE	1 GAL. / STAKED		M	FLOWERING VINE

PROPOSED PLANT PALETTE

TREES

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE / FORM	HT. X SPRD. X CAL. (MIN.)	WATER USE	DESCRIPTION
	ACER PALMATUM	JAPANESE MAPLE	24" BOX STD.	8'H X 5'W X 2" C	M	SMALL DECIDUOUS ACCENT
	ACER RUBRUM	RED MAPLE	24" BOX STD.	10'H X 5'W X 2" C	M	DECIDUOUS CANOPY
	CERCIS CANADENSIS 'FOREST PANSY'	FOREST PANSY REDBUD	24" BOX STD.	8'H X 3'W X 1-3/4" C	M	DECIDUOUS FLOWERING ACCENT
▲	LAGERSTROEMIA FAUERI 'MUSKOGEE'	MUSKOGEE CREPE MYRTLE	24" BOX STD.	8'H X4' W X 1-3/4" C	L	DECIDUOUS FLOWERING ACCENT
	QUERCUS DOUGLASII	BLUE OAK	24" BOX STD.	8'H X 5'W X 2" C	L	DECIDUOUS CANOPY
	QUERCUS WIZLIZENII	INTERIOR LIVE OAK	24" BOX STD.	8'H X 5'W X 2" C	L	DECIDUOUS CANOPY

BACKGROUND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	ACCA SELLOWIANA	PINEAPPLE GUAVA	5 GAL.	6' O.C.	M	LARGE FLOWERING
	LEUCOPHYLLUM F. 'GREEN CLOUD'	TEXAS RANGER	5 GAL.	5' O.C.	L	LARGE FLOWERING
	OLEA X MONTRA 'LITTLE OLLIE'	LITTLE OLLIE	5 GAL.	4' O.C.	L	INFORMAL SCREENING HEDGE
	RHAMNUS C. 'MOUND SAN BRUNO'	COFFEEBERRY	5 GAL.	5' O.C.	L	LARGE SHRUB
	SENNA ARTEMISIOIDES	FEATHERY CASSIA	5 GAL.	5' O.C.	L	LARGE FLOWERING

MIDGROUND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	DIANELLA TASMANICA 'VARIEGATA'	VARIEGATED FLAX LILY	5 GAL.	36" O.C.	M	STRAPPY ACCENT
	HESPERALOE PARVIFLORA	RED YUCCA	5 GAL.	36" O.C.	L	FLOWERING ACCENT
	LANTANA 'GOLD MOUND'	YELLOW LANTANA	5 GAL.	36" O.C.	L	FLOWERING SHRUB
	MUHLENBERGIA C. 'REGAL MIST'	PINK MUHLY	5 GAL.	36" O.C.	L	ORNAMENTAL GRASS
	RHAPHIOLEPIS UMBELLATA	YEDDO HAWTHORNE	5 GAL.	36" O.C.	L	FLOWERING ACCENT
	ROSMARINUS O. 'TUSCAN BLUE'	ROSEMARY	1 GAL.	36" O.C.	L	FLOWERING ACCENT
	SALVIA CLEVELANDII 'ALLEN CHICKERING'	CLEVELAND SAGE	1 GAL.	48" O.C.	L	FLOWERING ACCENT
	SALVIA GREGGII	AUTUMN SAGE	1 GAL.	36" O.C.	L	FLOWERING ACCENT

FOREGROUND SHRUBS

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USE	DESCRIPTION
	ARTEMISIA 'POWIS CASTLE'	ARTEMISIA	1 GAL.	30" O.C.	L	SHRUB
	CALLISTEMON 'LITTLE JOHN'	DWARF BOTTLEBRUSH	5 GAL.	30" O.C.	L	FLOWERING SHRUB
	COPROSMA X KIRKII	CREEPING COPROSMA	1 GAL.	36" O.C.	M	FLOWERING SHRUB
	COTONEASTER DAMMERI 'LOWFAST'	LOWFAST COTONEASTER	1 GAL.	36" O.C.	L	SPREADING MASS
	DIANELLA 'CASA BLUE'	CASA BLUE FLAX LILY	1 GAL.	24" O.C.	L	STRAPPY ACCENT
	ECHEVERIA 'RUFFLES'	RUFFLES ECHEVERIA	1 GAL.	18" O.C.	L	SUCCULENT ACCENT
	FESTUCA MAIREI	ATLAS FESCUE	1 GAL.	30" O.C.	M	ORNAMENTAL GRASS
	SESLARIA AUTUMNALIS	AUTUMN MOOR GRASS	1 GAL.	30" O.C.	M	ORNAMENTAL GRASS

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CONSULTANT #6 - DISCIPLINE
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PROJECT NAME
CREEKSTONE SENIOR LIVING

PROJECT DESCRIPTION
24-HOUR RESIDENTIAL CARE FACILITY FOR THE ELDERLY (ASSISTED LIVING & INDEPENDENT LIVING)AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
3400 CHISOM TRAIL, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
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PRELIMINARY PLANTING PLAN

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TREES

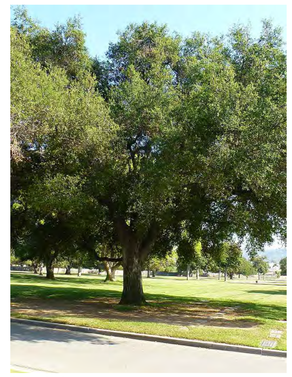
ACER PALMATUM /
JAPANESE MAPLE

ACER RUBRUM /
RED MAPLE

CERCIS CANADENSIS 'FOREST PANSY' /
FOREST PANSY REDBUD

LAGERSTROEMIA FAUERI 'MUSKOGEE' /
MUSKOGEE CREPE MYRTLE

QUERCUS DOUGLASII /
BLUE OAK



QUERCUS WIZLIZENII /
INTERIOR LIVE OAK

SHRUBS

ACCA SELLOWIANA /
PINEAPPLE GUAVA

LEUCOPHYLLUM F. 'GREEN CLOUD' /
TEXAS RANGER

OLEA X MONTRA 'LITTLE OLLIE' /
LITTLE OLLIE

RHAMNUS C. 'MOUND SAN BRUNO' /
COFFEEBERRY

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DIANELLA TASMANICA 'VARIEGATA' /
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YEDDO HAWTHORNE

ROSMARINUS O. 'TUSCAN BLUE' /
ROSEMARY

SALVIA CLEVELANDII 'ALLEN CHICKERING' /
CLEVELAND SAGE

SALVIA GREGGII /
AUTUMN SAGE

ARTEMISIA 'POWIS CASTLE' /
ARTEMISIA

CALLISTEMON 'LITTLE JOHN' /
DWARF BOTTLEBRUSH

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ADDRESS
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PROJECT NAME
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PROJECT DESCRIPTION
24-HOUR RESIDENTIAL CARE FACILITY FOR THE ELDERLY (ASSISTED LIVING & INDEPENDENT LIVING)AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
3400 CHISOM TRAIL, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
01/02/2024

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:

KEY PLAN

SHEET NAME
PLANTING IMAGERY

SHEET NUMBER
/

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SHRUBS

COPROSMA X KIRKII /
CREEPING COPROSMA

COTONEASTER DAMMERI 'LOWFAST' /
LOWFAST COTONEASTER

DIANELLA 'CASA BLUE'/
CASA BLUE FLAX LILY

ECHEVERIA 'RUFFLES' /
RUFFLES ECHEVERIA

FESTUCA MAIREI /
ATLAS FESCUE

SESLARIA AUTUMNALIS /
AUTUMN MOOR GRASS

ACACIA REDOLENS 'LOW BOY' /
PROSTRATE ACACIA

BACCHARIS P. 'PIGEON POINT' /
DWARF COYOTE BRUSH

LANTANA 'NEW GOLD' /
NEW GOLD LANTANA

MYOPORUM PARVIFOLIUM /
MYOPORUM

ROSA X 'FLOWER CARPET RED' /
RED CARPET ROSE

ROSMARINUS O. 'HUNTINGTON CARPET' /
PROSTRATE ROSEMARY

SALVIA 'BEE'S BLISS' /
BEE'S BLISS SAGE

CAREX PANSA /
CALIFORNIA MEADOW SEDGE

..\..\..\..\Images\Plant Material\Grasses\Carex\Carex tumulicola\Carex tumulicola.jpg

CAREX TUMICOLA /
FOOTHILL SEDGE

JUNCUS PATENS /
CALIFORNIA GRAY RUSH

DISTICTUS BUCCINATORIA /
BLOOD-RED TRUMPET VINE

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CONSULTANT #6 - DISCIPLINE
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PROJECT NAME
CREEKSTONE SENIOR LIVING

PROJECT DESCRIPTION
24-HOUR RESIDENTIAL CARE FACILITY FOR THE ELDERLY (ASSISTED LIVING & INDEPENDENT LIVING)AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
3400 CHISOM TRAIL, LOOMIS, CA 95650

OWNER INFORMATION
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153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
01/02/2024

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:

KEY PLAN

SHEET NAME
PLANTING IMAGERY

SHEET NUMBER
L3.2

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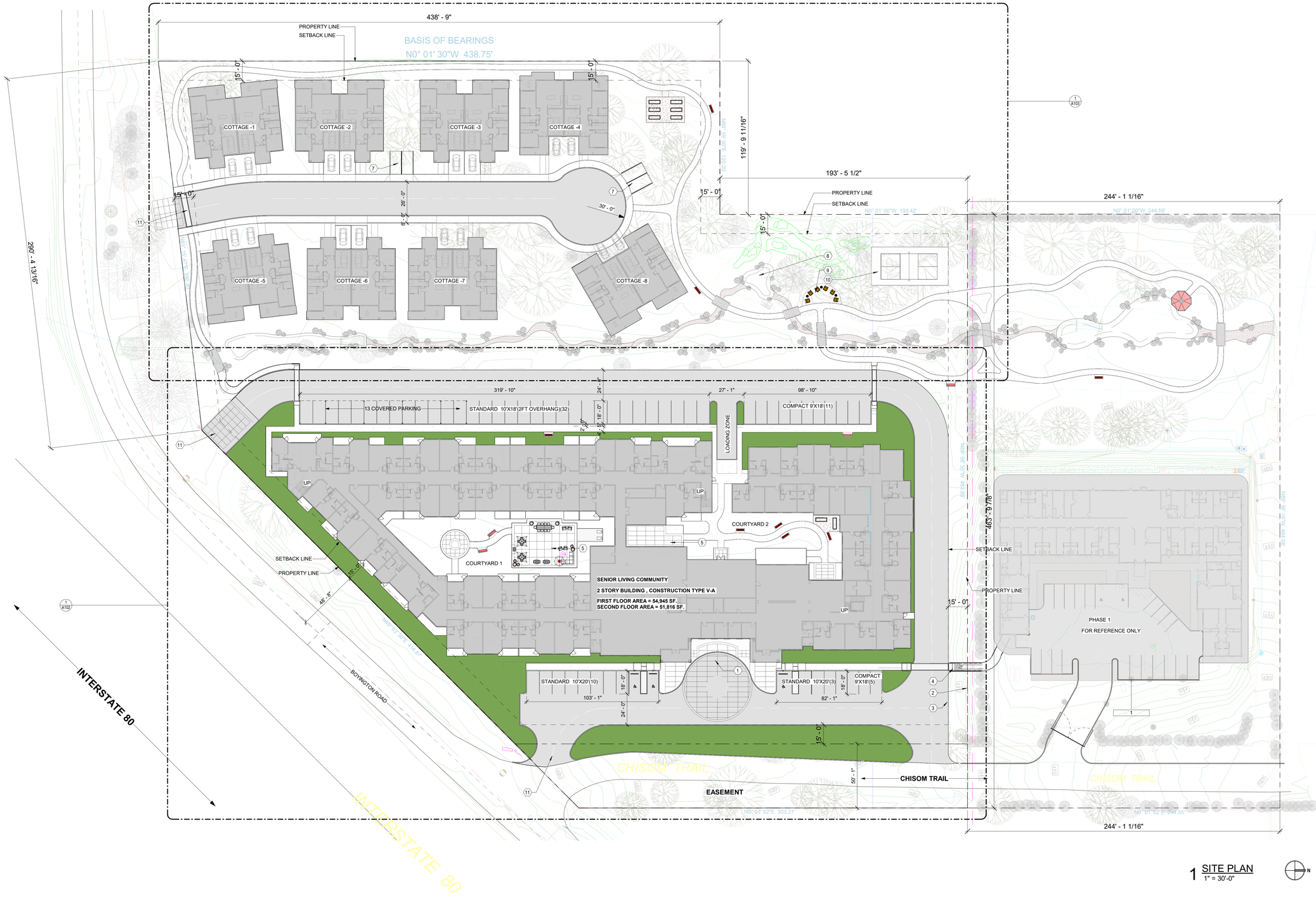

1 SITE PLAN
1" = 30'-0"

SITE PLAN KEY NOTES

1	DROP OFF ZONE
2	PROPERTY LINE
3	SET BACK LINE
4	NEW STAIRS CONNECTING TO ADJACENT PROPERTY. REFER CIVIL DRAWINGS FOR DETAILS.
5	COURTYARD RECREATIONAL AREA. REFER LANDSCAPE DRAWINGS FOR DETAILS.
7	VISITORS PARKING
8	WATER BODY OR POND. REFER IANDSCAPE DRAWINGS.
9	SITOUT AREA. REFER LANDSCAPE PLAN.
10	PICKLE BALL COURT. RFFR LANDSCPE DRAWINGS FOR DETAILS
11	NEW APPROACH WAY
12	RETAINING WALL . REFER CIVIL DRAWINGS FOR DETAILS.
13	RAISED PLANTERS. REFER LANDSCAPE DRAWINGS.
14	PEDESTRIAN RAMP WITH HANDRAILS.REFER CIVIL

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WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
11/01/23

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:
11/01/2023		PLANNING SUBMITTAL
01/02/2024		REVISED PLANNING SUBMITTAL

KEY PLAN

SHEET NAME
COMPOSITE SITE PLAN

SHEET NUMBER
A100

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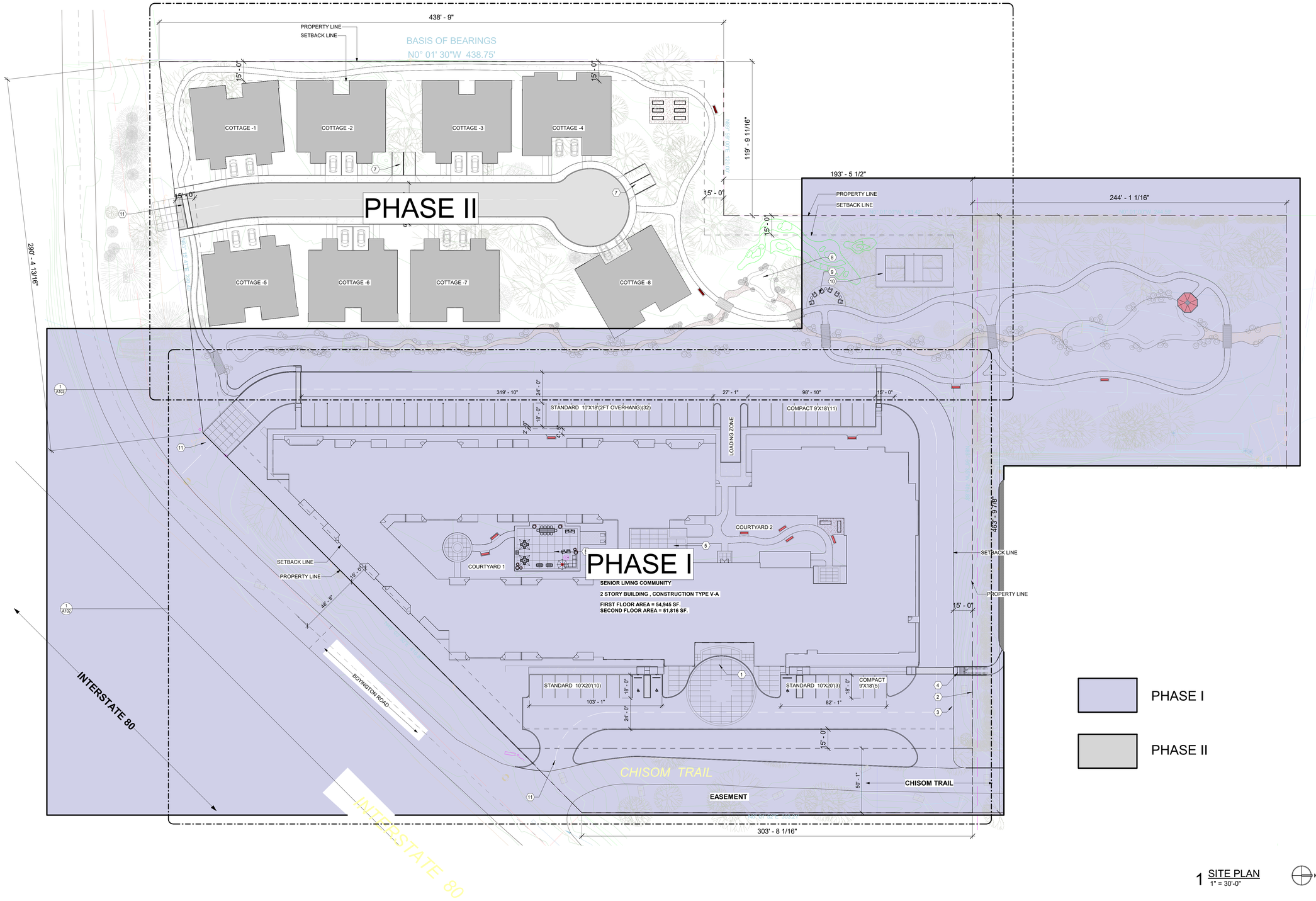

PHASE I

PHASE II

1 SITE PLAN
1" = 30'-0"

SITE PLAN KEY NOTES

1	DROP OFF ZONE
2	PROPERTY LINE
3	SET BACK LINE
4	NEW STAIRS CONNECTING TO ADJACENT PROPERTY. REFER CIVIL DRAWINGS FOR DETAILS.
5	COURTYARD RECREATIONAL AREA . REFER LANDSCAPE DRAWINGS FOR DETAILS.
7	VISITORS PARKING
8	WATER BODY OR POND. REFER IANDSCAPE DRAWINGS.
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PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

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KEY PLAN

SHEET NAME
PHASING PLAN

SHEET NUMBER
A101

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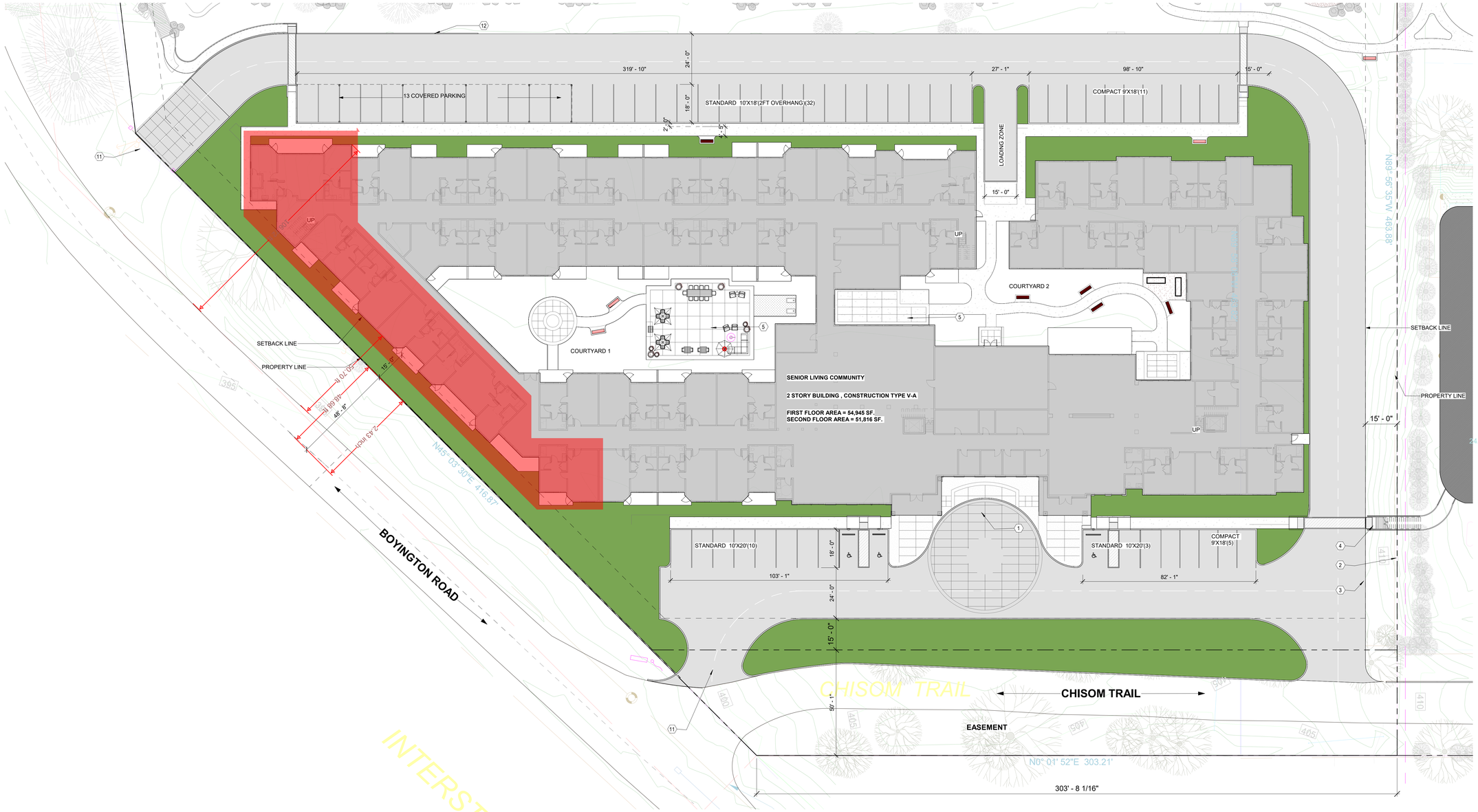

1 ENLARGED SITE PLAN
1" = 20'-0"

SITE PLAN KEY NOTES

1	DROP OFF ZONE
2	PROPERTY LINE
3	SET BACK LINE
4	NEW STAIRS CONNECTING TO ADJACENT PROPERTY. REFER CIVIL DRAWINGS FOR DETAILS.
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CONSULTANT #5 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
11/01/23

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:
11/01/2023		PLANNING SUBMITTAL
01/02/2024		REVISED PLANNING SUBMITTAL

KEY PLAN

SHEET NAME
ENLARGED SITE PLAN- EAST

SHEET NUMBER
A102

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SITE PLAN KEY NOTES

1 DROP OFF ZONE
2 PROPERTY LINE
3 SET BACK LINE
4 NEW STAIRS CONNECTING TO ADJACENT PROPERTY. REFER CIVIL DRAWINGS FOR DETAILS.
5 COURTYARD RECREATIONAL AREA . REFER LANDSCAPE DRAWINGS FOR DETAILS.
7 VISITORS PARKING
8 WATER BODY OR POND. REFER IANDSCAPE DRAWINGS.
9 SITOUT AREA. REFER LANDSCAPE PLAN.
10 PICKLE BALL COURT. RFFR LANDSCPE DRAWINGS FOR DETAILS
11 NEW APPROACH WAY
12 RETAINING WALL . REFER CIVIL DRAWINGS FOR DETAILS.
13 RAISED PLANTERS. REFER LANDSCAPE DRAWINGS.
14 PEDESTRIAN RAMP WITH HANDRAILS.REFER CIVIL

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CONSULTANT #4 - NAME
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PHONE NUMBER
WEBSITE

CONSULTANT #5 - DISCIPLINE
CONSULTANT #5 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME

CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
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OWNER INFORMATION
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SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
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KEY PLAN

SHEET NAME
ENLARGED SITE PLAN - WEST

SHEET NUMBER
A103

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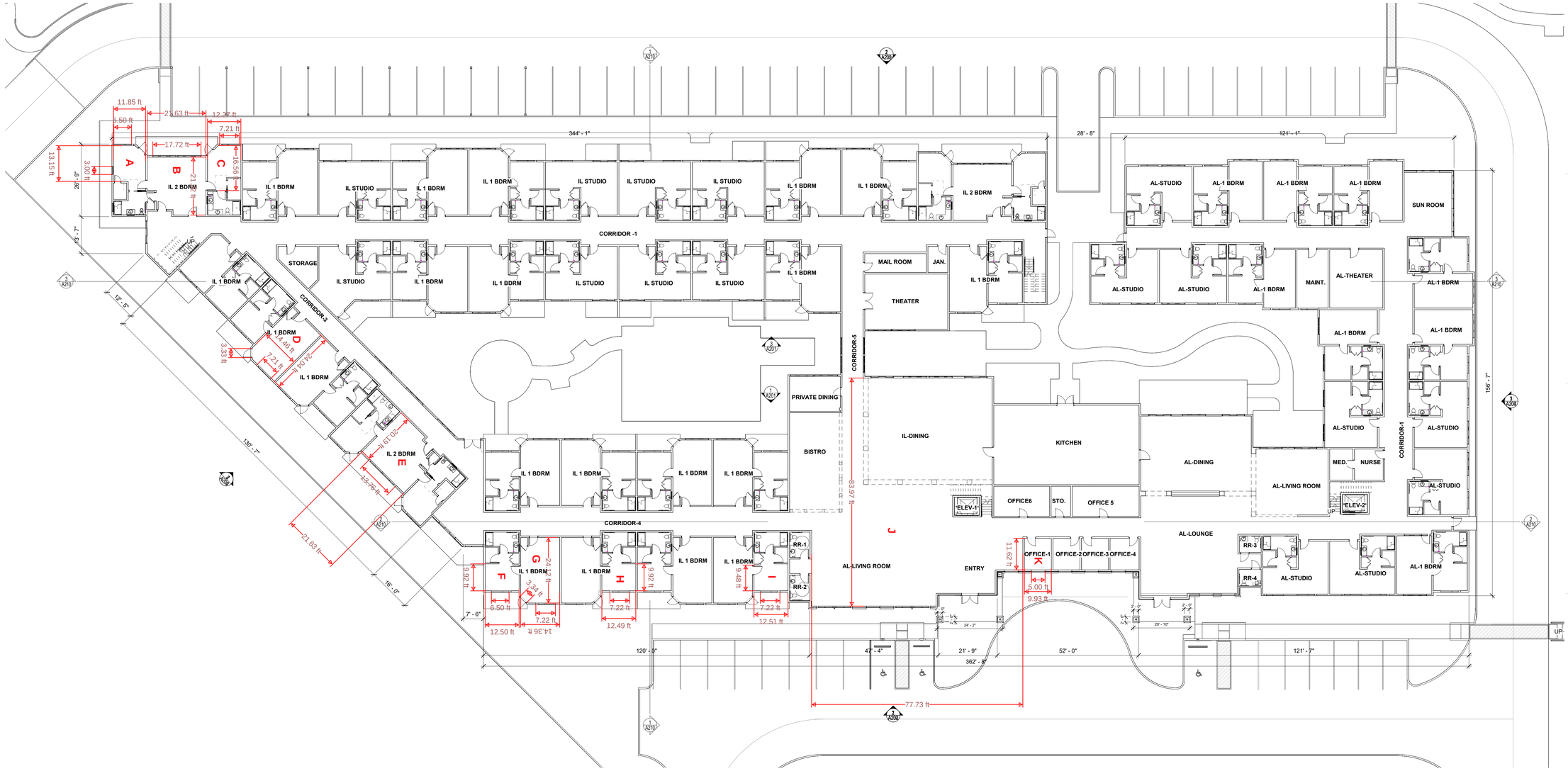
North



INDEPENDENT LIVING UNIT MIX			
Level	Name	Count	Occupancy
LEVEL 1			
LEVEL 1	IL 1 BDRM	20	R2.1
LEVEL 1	IL 2 BDRM	3	R2.1
LEVEL 1	IL STUDIO	8	R2.1
LEVEL 1: 31		31	
LEVEL 2			
LEVEL 2	IL 1 BDRM	20	R2.1
LEVEL 2	IL 1 STUDIO	1	R2.1
LEVEL 2	IL 2 BDRM	5	R2.1
LEVEL 2	IL STUDIO	7	R2.1
LEVEL 2: 33		33	

ASSISTED LIVING UNIT MIX			
Level	Name	Count	Occupancy
LEVEL 1			
LEVEL 1	AL-1 BDRM	8	R2.1
LEVEL 1	AL-STUDIO	8	R2.1
LEVEL 1: 16		16	
LEVEL 2			
LEVEL 2	AL-1 BDRM	11	R2.1
LEVEL 2	AL-1BDRM	1	R2.1
LEVEL 2	AL-STUDIO	7	R2.1
LEVEL 2: 19		19	

1 COMPOSITE FLOOR PLAN - FIRST FLOOR
1/16" = 1'-0"

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CONSULTANT #3 - NAME
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PHONE NUMBER
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CONSULTANT #4 - DISCIPLINE
CONSULTANT #4 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #5 - DISCIPLINE
CONSULTANT #5 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

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OWNER INFORMATION
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SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
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KEY PLAN

SHEET NAME
COMPOSITE FLOOR PLAN - FIRST FLOOR

SHEET NUMBER
A110

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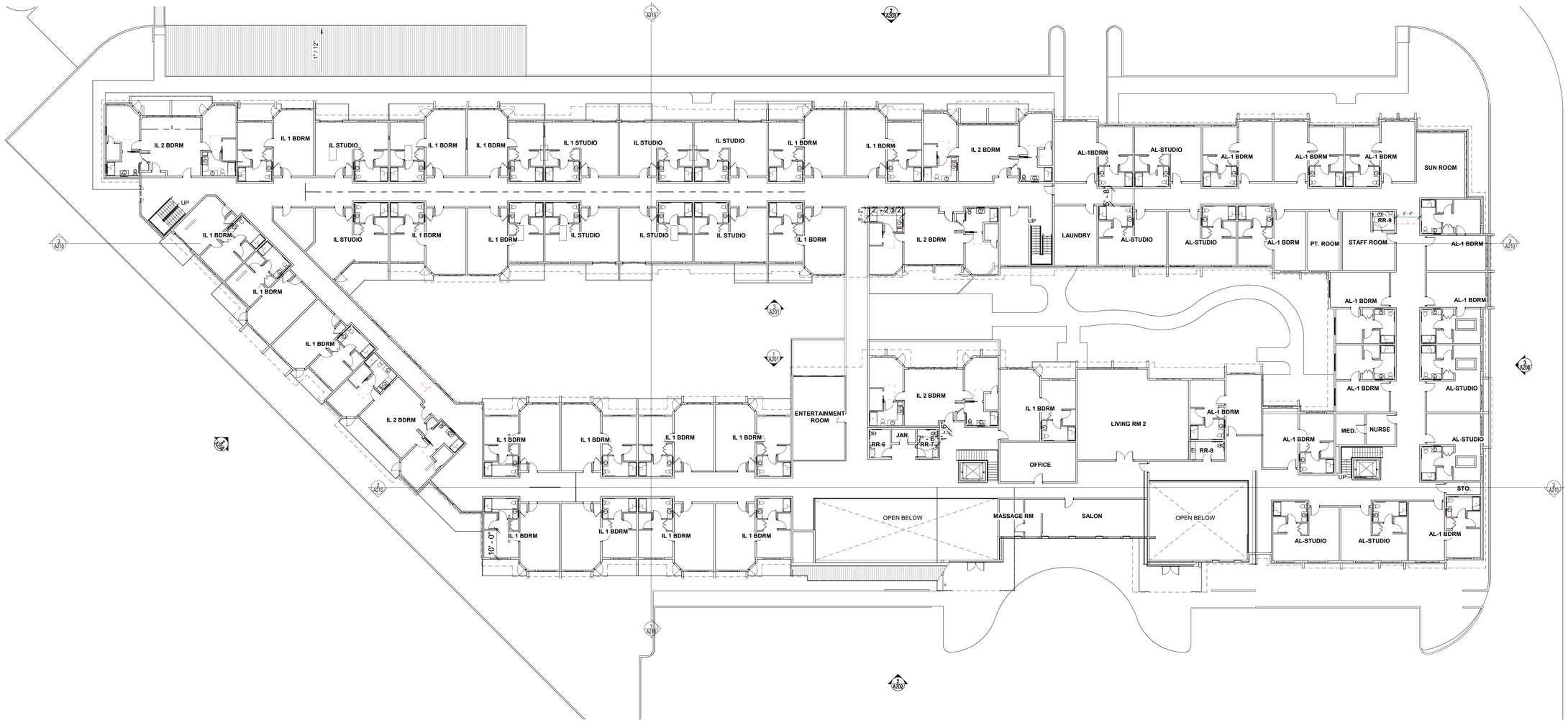

1 FLOOR PLAN - LEVEL 2
1/16" = 1'-0"

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CONSULTANT #4 - NAME
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PHONE NUMBER
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CONSULTANT #5 - DISCIPLINE
CONSULTANT #5 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
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KEY PLAN

SHEET NAME
COMPOSITE FLOOR PLAN - SECOND FLOOR

SHEET NUMBER
A111

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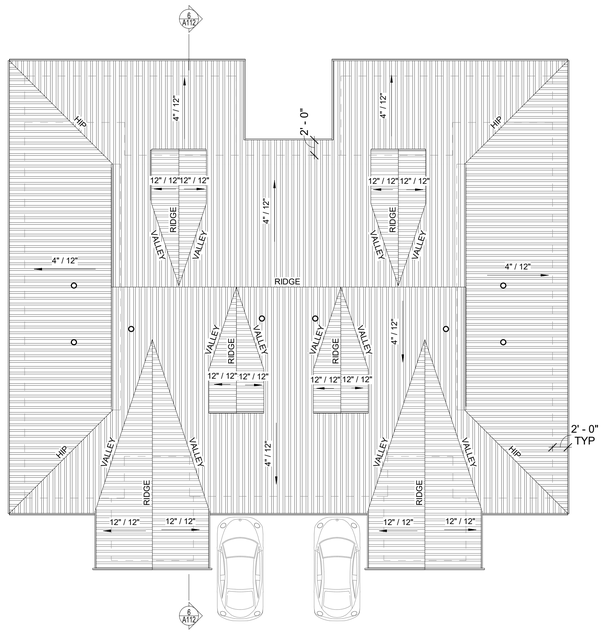
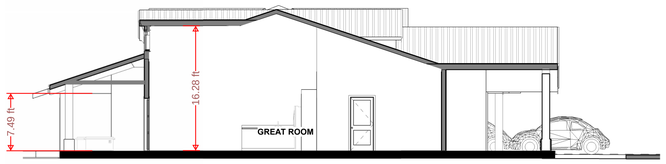
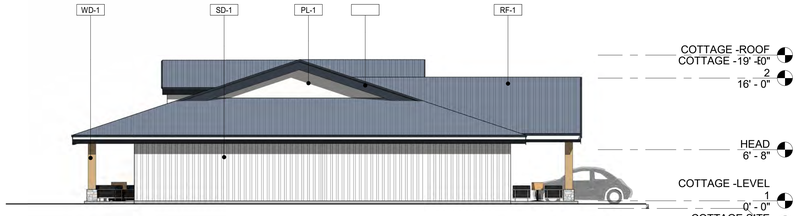


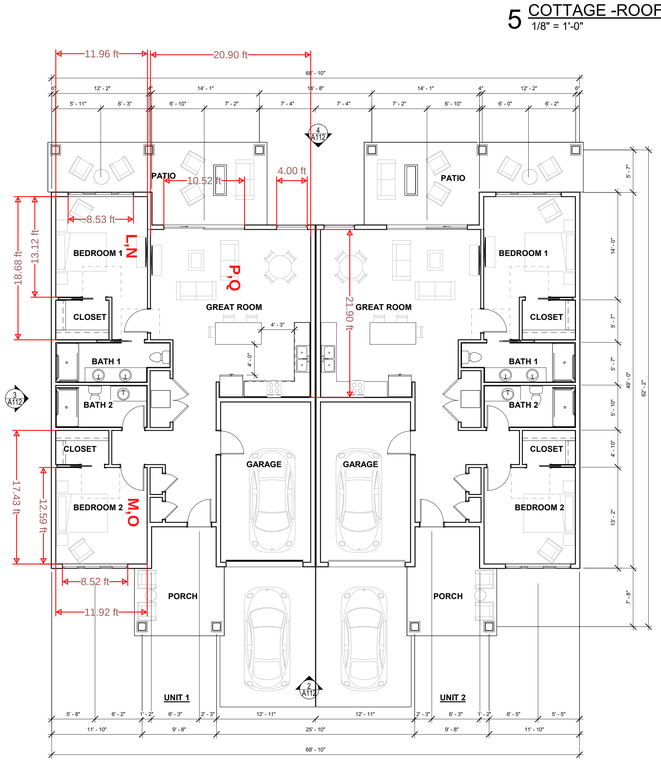
5 COTTAGE -ROOF PLAN
1/8" = 1'-0"



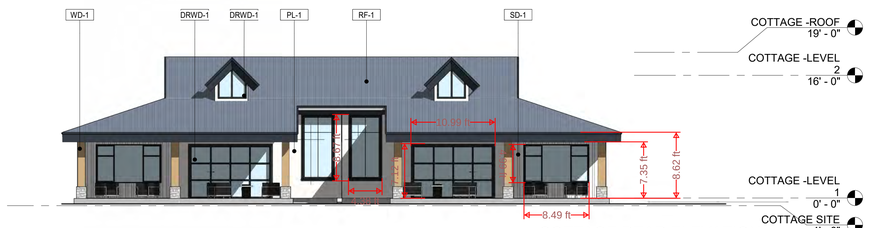
6 SECTION
1/8" = 1'-0"



3 COTTAGE - SIDE ELEVATION
1/8" = 1'-0"



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



4 COTTAGE REAR ELEVATION
1/8" = 1'-0"

2 COTTAGE - FRONT ELEVATION
1/8" = 1'-0"

BUILDABLE FLOOR AREA (PER LOOMIS MUNICPAL CODE):
(EXCLUDES STAIRS, SHAFTS & ELEVATORS ON UPPDER FLOORS)

TYPICAL UNIT 1 CONDITIONED SPACE:	
FIRST FLOOR:	1,559 SF
TOTAL CONDITIONED:	1,559 SF
TYPICAL UNIT 1 UNCONDITIONED SPACE:	
ENTRY PORCH:	149 SF
PATIO:	250 SF
TOTAL UNCONDITIONED:	399 SF
TYPICAL UNIT 2 CONDITIONED SPACE:	
FIRST FLOOR:	1,559 SF
TOTAL CONDITIONED:	1,559 SF
TYPICAL UNIT 2 UNCONDITIONED SPACE:	
ENTRY PORCH:	149 SF
PATIO:	250 SF
TOTAL UNCONDITIONED:	399 SF
TOTAL CONDITIONED SPACE PER COTTAGE:	
TYPICAL UNIT 1:	1,559 SF
TYPICAL UNIT 2:	1,559 SF
TOTAL CONDITIONED:	3,118 SF
TOTAL UNCONDITIONED SPACE PER COTTAGE:	
TYPICAL UNIT 1:	399 SF
TYPICAL UNIT 2:	399 SF
TOTAL UNCONDITIONED:	798 SF

MECHANICAL LEGEND

○ LOCATION OF MECHANICAL EXHAUST

MATERIAL LEGEND

WINDOWS, DOORS, & RAILING: **DRWD-1**
CHARCOAL

WOOD LOUVERS, EXPOSED BEAMS, & COLUMNS: **WD-1**
MEDIUM GREY

STONE VENEER: **ST-1**
CREATIVE MINES FOGBANK

VERTICAL BOARD & BATTEN SIDING,
WOOD FASCIA COLOR: **SD-1**
ARCTIC WHITE PLUS

STANDING SEAM ROOF : **RF-1**
MEDIUM GREY

STUCCO : **PL-1**
SW 7005 PURE WHITE

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CONSULTANT #5 - DISCIPLINE
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CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

STAMP / SIGNATURE

ISSUE DATE
11/01/23

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:
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KEY PLAN

SHEET NAME
TYPICAL COTTAGE FLOOR PLAN & ELEVATIONS

SHEET NUMBER
A112

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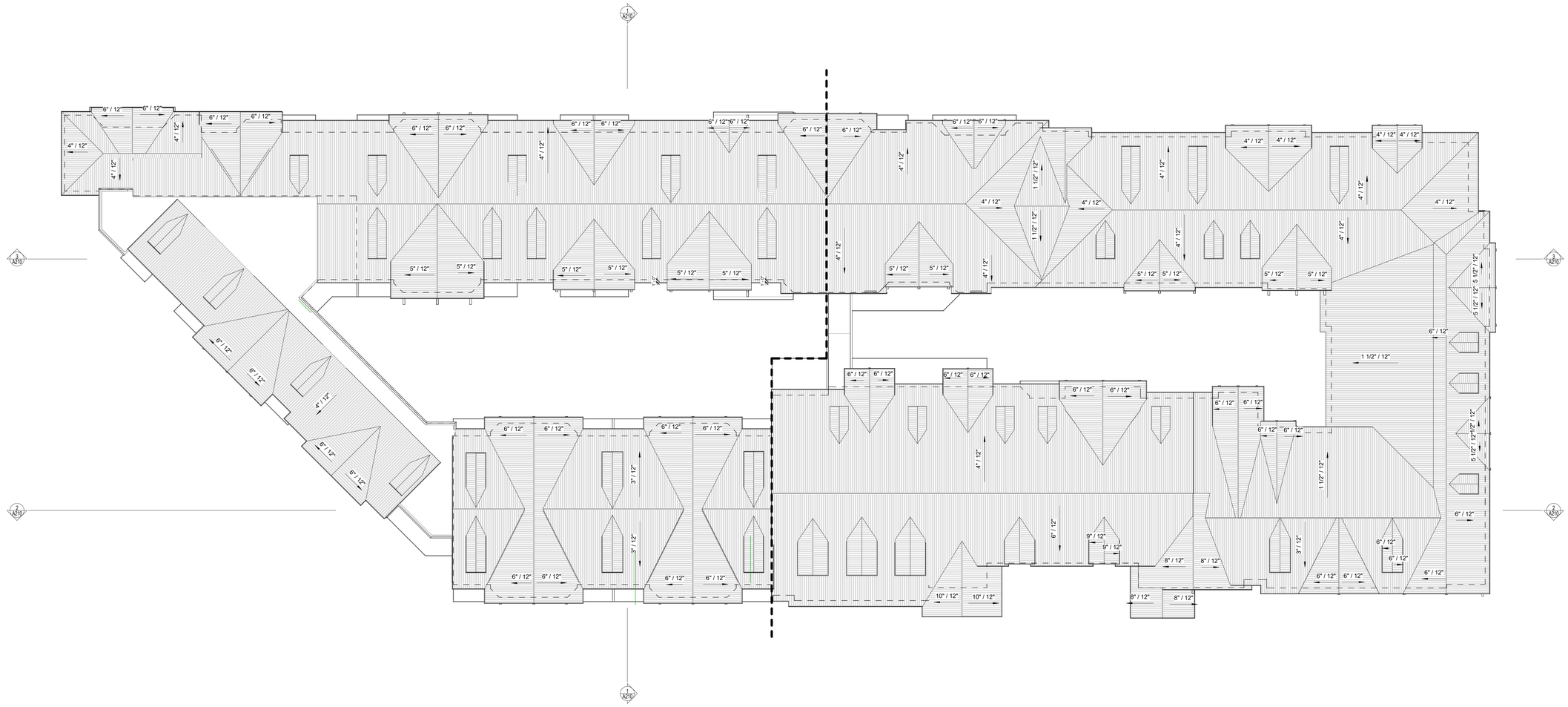

1 ROOF PLAN
1/16" = 1'-0"

N

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PHONE NUMBER
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PROJECT NAME

CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

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KEY PLAN

SHEET NAME
ROOF PLAN

SHEET NUMBER
A190

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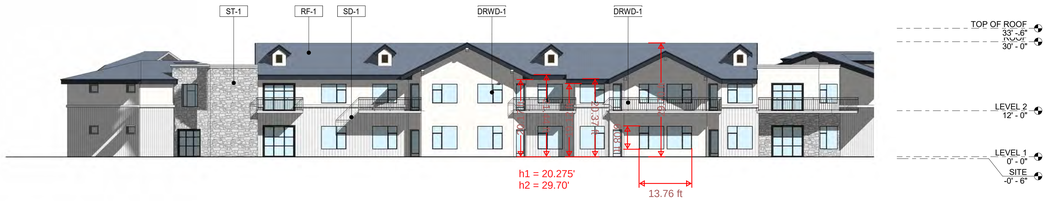
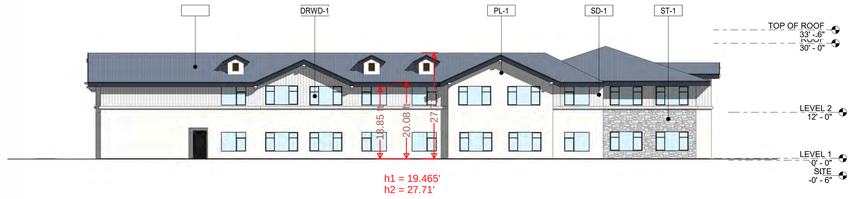
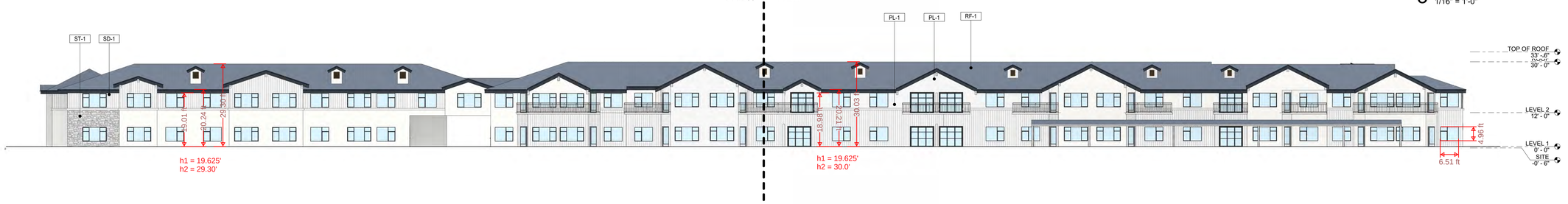


4 SOUTH ELEVATION
1/16" = 1'-0"



3 NORTH ELEVATION
1/16" = 1'-0"



2 WEST ELEVATION
1/16" = 1'-0"

1 EAST ELEVATION
1/16" = 1'-0"

MATERIAL LEGEND

- WINDOWS, DOORS, & RAILING: **DRWD-1** CHARCOAL
- STONE VENEER: **ST-1** CREATIVE MINES FOGBANK
- STANDING SEAM ROOF : **RF-1** MEDIUM GREY
- WOOD LOUVERS, EXPOSED BEAMS, & COLUMNS: **WD-1** BEIGE
- VERTICAL BOARD & BATTEN SIDING, WOOD FASCIA COLOR: **SD-1** ARCTIC WHITE PLUS
- STUCCO : **PL-1** SW 7005 PURE WHITE

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KEY PLAN

SHEET NAME
BUILDING ELEVATIONS

SHEET NUMBER
A200

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3 COURTYARD WEST ELEVATION
1/16" = 1'-0"

1 COURTYARD EAST ELEVATION
1/16" = 1'-0"

MATERIAL LEGEND

WINDOWS, DOORS, & RAILING: **DRWD-1**
CHARCOAL

STONE VENEER: **ST-1**
CREATIVE MINES FOGBANK

STANDING SEAM ROOF : **RF-1**
MEDIUM GREY

WOOD LOUVERS, EXPOSED BEAMS, & COLUMNS: **WD-1**
BEIGE

VERTICAL BOARD & BATTEN SIDING,
WOOD FASCIA COLOR: **SD-1**
ARCTIC WHITE PLUS

STUCCO : **PL-1**
SW 7005 PURE WHITE

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2305

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ISSUE DATE
11/01/23

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:
11/01/2023		PLANNING SUBMITTAL
01/02/2024		REVISED PLANNING SUBMITTAL

KEY PLAN

SHEET NAME
BUILDING ELEVATIONS

SHEET NUMBER
A201

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1 / A202

2 EAST ELEVATION PART B
1/8" = 1'-0"

2 / A202

1 EAST ELEVATION -PART A
1/8" = 1'-0"

MATERIAL LEGEND

- WINDOWS, DOORS, & RAILING: **DRWD-1**
  CHARCOAL
- STONE VENEER: **ST-1**
  CREATIVE MINES FOGBANK
- STANDING SEAM ROOF : **RF-1**
  MEDIUM GREY
- WOOD LOUVERS, EXPOSED BEAMS, & COLUMNS: **WD-1**
  MEDIUM GREY
- VERTICAL BOARD & BATTEN SIDING, WOOD FASCIA COLOR: **SD-1**
  ARCTIC WHITE PLUS
- STUCCO : **PL-1**
  SW 7005 PURE WHITE

Goree Whitfield
24691 Del Prado Ave
Dana Point, CA 92629
949 -234 -1950
www.goreewhitfield.com

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RIDGE LANDSCAPE ARCHITECTS
8841 RESEARCH DR., #200, Irvine
949-387-1323 EXT.30

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PHONE NUMBER
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CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
BPG LOOMIS, LLC.
153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
2305

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ENLARGED BUILDING ELEVATIONS

SHEET NUMBER
A202

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2 WEST ELEVATION -PART B
1/8" = 1'-0"

1 WEST ELEVATION - PART A
1/8" = 1'-0"

MATERIAL LEGEND

WINDOWS, DOORS, & RAILING: **DRWD-1**
CHARCOAL

STONE VENEER: **ST-1**
CREATIVE MINES FOGBANK

STANDING SEAM ROOF : **RF-1**
MEDIUM GREY

WOOD LOUVERS, EXPOSED BEAMS, & COLUMNS: **WD-1**
MEDIUM GREY

VERTICAL BOARD & BATTEN SIDING,
WOOD FASCIA COLOR: **SD-1**
ARCTIC WHITE PLUS

STUCCO : **PL-1**
SW 7005 PURE WHITE

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CONSULTANT #5 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
CONSULTANT #6 - NAME
ADDRESS
PHONE NUMBER
WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
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153 CEDROS #1267
SOLANA BEACH, CA 92075

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11/01/23

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11/01/2023		PLANNING SUBMITTAL
01/02/2024		REVISED PLANNING SUBMITTAL

KEY PLAN

SHEET NAME
ENLARGED BUILDING ELEVATIONS

SHEET NUMBER
A203

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

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

MATERIAL LEGEND

- WINDOWS, DOORS, & RAILING: **DRWD-1**
  CHARCOAL
- STONE VENEER: **ST-1**
  CREATIVE MINES FOGBANK
- STANDING SEAM ROOF : **RF-1**
  MEDIUM GREY
- WOOD LOUVERS, EXPOSED BEAMS, & COLUMNS: **WD-1**
  MEDIUM GREY
- VERTICAL BOARD & BATTEN SIDING, WOOD FASCIA COLOR: **SD-1**
  ARCTIC WHITE PLUS
- STUCCO : **PL-1**
  SW 7005 PURE WHITE

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CONSULTANT #5 - DISCIPLINE
CONSULTANT #5 - NAME
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PHONE NUMBER
WEBSITE

CONSULTANT #6 - DISCIPLINE
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WEBSITE

PROJECT NAME
CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

PROJECT ADDRESS
NW CORNER OF CHISOM TRAIL AND BOYINGTON ROAD, LOOMIS, CA 95650

OWNER INFORMATION
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153 CEDROS #1267
SOLANA BEACH, CA 92075

GOREE PROJECT NUMBER
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ISSUE DATE
11/01/23

ISSUE HISTORY

DATE:	MARK:	DESCRIPTION:
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01/02/2024		REVISED PLANNING SUBMITTAL

KEY PLAN

SHEET NAME
ENLARGED BUILDING ELEVATIONS

SHEET NUMBER
A204

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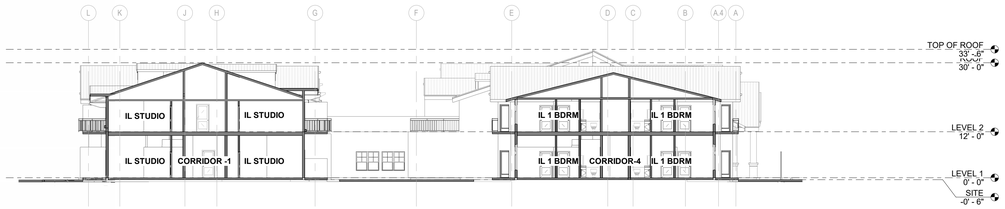
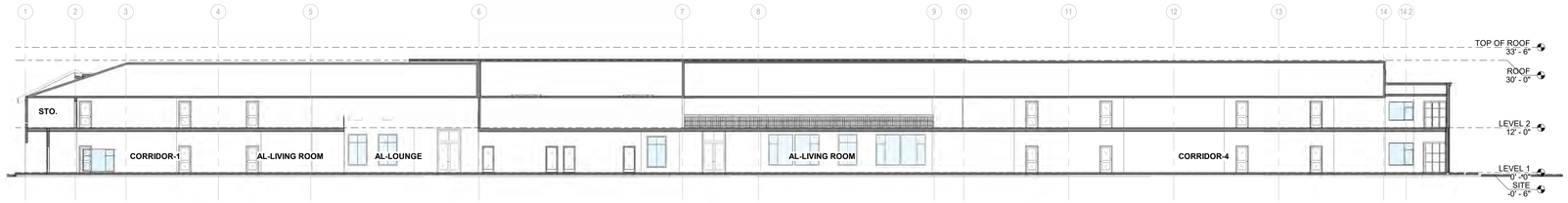
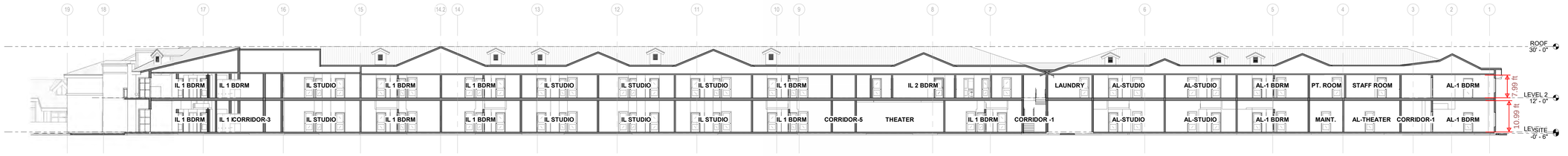


1 SECTION 1
1/16" = 1'-0"



2 SECTION 2
1/16" = 1'-0"



3 SECTION 3
1/16" = 1'-0"

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CONSULTANT #6 - DISCIPLINE
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PROJECT NAME

CREEKSTONE SENIOR LIVING,LOOMIS.

PROJECT DESCRIPTION
SENIOR LIVING COMMUNITY (ASSISTED LIVING , INDEPENDENT LIVING AND STAND ALONE INDEPENDENT LIVING COTTAGES .

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KEY PLAN

SHEET NAME
BUILDING SECTION

SHEET NUMBER
A210

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Appendix B:

Composite Transmission Loss and Exterior-to-Interior DNL Calculation Results

PROPERTY LINE
SETBACK LINE
13 COVERED PARKING
BOYINGTON ROAD
INTERSTATE 80
A
B
C
D
E
F
G
L
M
N
O
P
Q

| | | |

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	69.8	69.4	63.7	61.1	58.9	54.4	46.1	40.3	63.7		dBA		
Adjusted Outside Spectrum	69.8	69.4	63.7	61.1	58.9	54.4	46.1	40.3	63.7		63.7		
+ 10*log10(Total_Area)	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	64.3%		119	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	21.0%		39	
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	14.5%		27	
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=13.15, W=11.85, H=10	-3.8	-4.9	-4.2	-4.9	-4.8	-5.0	-5.9	-6.3					
Direct Field SPL	45.0	42.6	26.2	15.6	11.2	7.2	-9.5	-21.4	27.8		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	55.6	52.1	36.4	25.0	20.9	16.5	-1.3	-13.6	37.5		38.0	38.0	41.0
Total SPL	56.0	52.6	36.8	25.5	21.3	17.0	-0.7	-12.9	38.0		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	54.7	46.7	29.5	17.3	9.6	9.9	-3.2	-14.5	33.0				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-943.4	-951.4	-968.6	-980.8	-988.4	-988.2	-1001.3	-1012.6	-965.1				
SPL from TL of Air Duct:	-921.7	-923.1	-928.2	-931.5	-933.5	-938.3	-947.5	-953.7	-928.7				
SPL from TL of Open Area:	-921.7	-923.1	-928.2	-931.5	-933.5	-938.3	-947.5	-953.7	-928.7				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	47.8	49.0	33.6	22.5	18.7	13.8	-6.4	-20.3	34.1				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-945.4	-944.3	-959.6	-970.7	-974.5	-979.5	-999.7	-1013.6	-959.2				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	46.2	47.3	32.0	20.9	17.1	12.1	-8.1	-22.0	32.4				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-945.4	-944.3	-959.6	-970.7	-974.5	-979.5	-999.7	-1013.6	-959.2				
Total TL of exterior	-22.3	-24.3	-35.0	-43.0	-45.2	-44.7	-53.2	-59.3				ft2	m2
Total Interior DNL prediction	56.0	52.6	36.8	25.5	21.3	17.0	-0.7	-12.9	38.0			184	17.11
A-weighted by octave band	30.0	36.6	27.8	22.5	21.3	18.0	0.3	-13.9					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	68.7	67.9	62.0	59.4	57.5	52.9	44.4	37.6	62.2		dBA		
Adjusted Outside Spectrum	68.7	67.9	62.0	59.4	57.5	52.9	44.4	37.6	62.2		62.2		
+ 10*log10(Total_Area)	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0					
												Areas (ft2):	
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	50.8%		110	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	49.2%		107	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=21.63, W=21.32, H=10	-7.2	-8.3	-8.2	-9.0	-8.9	-9.0	-9.9	-10.2					
Direct Field SPL	42.3	44.0	34.2	20.8	13.0	10.0	-9.6	-24.7	30.4		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	51.1	51.6	41.9	27.5	19.9	16.6	-4.0	-19.6	38.0		38.7		38.7
Total SPL	51.7	52.3	42.6	28.3	20.7	17.5	-3.0	-18.4	38.7		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	50.0	51.4	26.6	14.8	4.8	-3.3	-7.1	-20.5	35.6				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-947.1	-945.6	-970.5	-982.3	-992.2	-1000.3	-1004.1	-1017.5	-961.5				
SPL from TL of Air Duct:	-925.5	-927.4	-933.1	-936.6	-938.4	-943.1	-952.5	-959.6	-933.6				
SPL from TL of Open Area:	-925.5	-927.4	-933.1	-936.6	-938.4	-943.1	-952.5	-959.6	-933.6				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	46.7	44.8	42.5	28.2	20.6	17.4	-5.1	-22.6	35.7				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.2	-952.1	-954.5	-968.8	-976.4	-979.5	-1002.0	-1019.5	-961.2				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.2	-952.1	-954.5	-968.8	-976.4	-979.5	-1002.0	-1019.5	-961.2				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.2	-952.1	-954.5	-968.8	-976.4	-979.5	-1002.0	-1019.5	-961.2				
Total TL of exterior	-22.8	-20.3	-24.3	-35.0	-40.9	-39.4	-50.5	-58.8				ft2	m2
Total Interior DNL prediction	51.7	52.3	42.6	28.3	20.7	17.5	-3.0	-18.4	38.7			216	20.095
A-weighted by octave band	25.7	36.3	33.6	25.3	20.7	18.5	-2.0	-19.4					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	68.4	67.4	61.4	58.9	57.1	52.4	43.5	36.1	61.7		dBA		
Adjusted Outside Spectrum	68.4	67.4	61.4	58.9	57.1	52.4	43.5	36.1	61.7		61.7		
+ 10*log10(Total_Area)	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4					
												Areas (ft2):	
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	70.2%		105	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	12.3%		18	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	17.5%		27	
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=12.27, W=16.56, H=10	-4.4	-5.3	-4.7	-5.5	-5.4	-5.8	-6.7	-7.1					
Direct Field SPL	42.6	44.5	31.6	18.5	10.7	7.4	-10.9	-25.8	29.9		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	52.8	53.6	41.4	27.3	19.6	16.0	-3.4	-18.8	39.2		39.6		39.6
Total SPL	53.2	54.1	41.8	27.8	20.1	16.5	-2.7	-18.0	39.6		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	52.3	53.7	29.3	17.6	7.7	-0.7	-5.0	-19.1	37.9				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-946.1	-944.7	-969.2	-980.9	-990.8	-999.2	-1003.4	-1017.5	-960.5				
SPL from TL of Air Duct:	-924.5	-926.5	-931.9	-935.2	-936.9	-941.9	-951.8	-959.6	-932.3				
SPL from TL of Open Area:	-924.5	-926.5	-931.9	-935.2	-936.9	-941.9	-951.8	-959.6	-932.3				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	41.6	39.6	37.6	23.5	15.9	12.5	-10.6	-28.7	30.8				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-949.2	-951.2	-953.2	-967.4	-974.9	-978.3	-1001.4	-1019.5	-960.0				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	43.3	41.3	39.3	25.2	17.6	14.2	-8.9	-27.0	32.5				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-949.2	-951.2	-953.2	-967.4	-974.9	-978.3	-1001.4	-1019.5	-960.0				
Total TL of exterior	-22.3	-19.4	-26.3	-37.0	-43.0	-41.5	-50.9	-58.4				ft2	m2
Total Interior DNL prediction	53.2	54.1	41.8	27.8	20.1	16.5	-2.7	-18.0	39.6			149	13.827
A-weighted by octave band	27.2	38.1	32.8	24.8	20.1	17.5	-1.7	-19.0					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	73.1	73.5	68.5	66.5	63.7	59.2	51.5	47.6	68.6		dBA		
Adjusted Outside Spectrum	73.1	73.5	68.5	66.5	63.7	59.2	51.5	47.6	68.6		68.6		
+ 10*log10(Total_Area)	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	59.1%		102	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	25.5%		44	
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	15.5%		27	
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=14.5, W=24, H=10	-5.7	-6.6	-5.9	-6.9	-6.9	-7.2	-8.2	-8.7					
Direct Field SPL	47.4	46.3	30.6	20.7	15.8	11.6	-4.9	-15.0	31.5		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	56.6	54.4	39.5	28.4	23.5	19.0	1.3	-9.4	39.8		40.4		40.4
Total SPL	57.1	55.0	40.0	29.1	24.2	19.8	2.3	-8.3	40.4		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	55.5	48.4	32.0	20.0	11.6	11.9	-0.8	-10.2	34.5				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-942.2	-949.3	-965.8	-977.7	-986.1	-985.8	-998.5	-1008.0	-963.2				
SPL from TL of Air Duct:	-920.5	-921.1	-925.4	-928.4	-931.2	-936.0	-944.7	-949.0	-926.1				
SPL from TL of Open Area:	-920.5	-921.1	-925.4	-928.4	-931.2	-936.0	-944.7	-949.0	-926.1				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	49.8	51.8	37.2	26.4	21.9	16.9	-2.8	-14.9	37.0				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.2	-942.2	-956.8	-967.6	-972.2	-977.1	-996.8	-1009.0	-957.0				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	47.7	49.7	35.1	24.3	19.7	14.8	-4.9	-17.1	34.9				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.2	-942.2	-956.8	-967.6	-972.2	-977.1	-996.8	-1009.0	-957.0				
Total TL of exterior	-22.4	-23.9	-34.6	-42.5	-44.6	-44.3	-53.1	-59.3				ft2	m2
Total Interior DNL prediction	57.1	55.0	40.0	29.1	24.2	19.8	2.3	-8.3	40.4			172	15.948
A-weighted by octave band	31.1	39.0	31.0	26.1	24.2	20.8	3.3	-9.3					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...		
Measured Outside Spectrum	73.1	73.5	68.6	66.6	63.9	59.3	51.6	47.7	68.8		dBA		
Adjusted Outside Spectrum	73.1	73.5	68.6	66.6	63.9	59.3	51.6	47.7	68.8		68.8		
+ 10*log10(Total_Area)	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0					
											Areas (ft2):		
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	91.8%	134		
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	58.1%	83		
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=21.625, W=20.25, H=10	-7.1	-8.2	-8.1	-8.9	-8.8	-9.0	-9.8	-10.1					
Direct Field SPL	47.1	50.2	39.7	27.0	18.4	15.3	-2.7	-14.4	36.3		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	56.0	57.9	47.5	33.8	25.3	22.1	3.1	-9.1	44.0		44.7		44.7
Total SPL	56.5	58.6	48.2	34.6	26.1	22.9	4.1	-8.0	44.7		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	55.4	58.0	34.1	22.9	12.2	4.1	1.1	-9.4	42.1				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-942.6	-939.9	-963.8	-975.0	-985.7	-993.9	-996.8	-1007.3	-955.8				
SPL from TL of Air Duct:	-921.0	-921.7	-926.5	-929.3	-931.9	-936.6	-945.2	-949.4	-926.9				
SPL from TL of Open Area:	-921.0	-921.7	-926.5	-929.3	-931.9	-936.6	-945.2	-949.4	-926.9				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	50.1	49.4	48.0	34.3	26.0	22.8	1.1	-13.5	41.1		HVAC Macro		
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-945.7	-946.4	-947.8	-961.5	-969.8	-973.0	-994.7	-1009.3	-954.7				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-945.7	-946.4	-947.8	-961.5	-969.8	-973.0	-994.7	-1009.3	-954.7				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-945.7	-946.4	-947.8	-961.5	-969.8	-973.0	-994.7	-1009.3	-954.7				
Total TL of exterior	-22.5	-19.8	-25.3	-36.0	-42.0	-40.5	-50.7	-58.6			ft2	m2	
Total Interior DNL prediction	56.5	58.6	48.2	34.6	26.1	22.9	4.1	-8.0	44.7		216	20.06	
A-weighted by octave band	30.5	42.6	39.2	31.6	26.1	23.9	5.1	-9.0					

AS | AW | BW | CW | DSE | **ESE** | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...		
Measured Outside Spectrum	72.7	73.1	68.5	66.5	63.4	58.8	51.3	47.8	68.5		dBA		
Adjusted Outside Spectrum	72.7	73.1	68.5	66.5	63.4	58.8	51.3	47.8	68.5		68.5		
+ 10*log10(Total_Area)	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7					
											Areas (ft2):		
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	100.0%	100		
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=10, W=12.5, H=10	-3.4	-4.4	-3.8	-4.4	-4.2	-4.6	-5.4	-5.7					
Direct Field SPL	46.2	40.1	23.3	12.4	3.7	4.2	-7.3	-15.9	25.9		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	56.9	49.7	33.6	22.0	13.5	13.6	1.2	-7.8	35.9		36.3	42.9	43.7
Total SPL	57.3	50.1	34.0	22.4	13.9	14.1	1.8	-7.2	36.3		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	57.3	50.1	34.0	22.4	13.9	14.1	1.8	-7.2	36.3				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-942.7	-949.9	-966.0	-977.6	-986.1	-985.9	-998.2	-1007.2	-963.7				
SPL from TL of Air Duct:	-921.0	-921.6	-925.6	-928.3	-931.2	-936.1	-944.4	-948.2	-926.2				
SPL from TL of Open Area:	-921.0	-921.6	-925.6	-928.3	-931.2	-936.1	-944.4	-948.2	-926.2				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.7	-942.7	-957.1	-967.5	-972.2	-977.2	-996.6	-1008.2	-957.5		HVAC Macro		
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.7	-942.7	-957.1	-967.5	-972.2	-977.2	-996.6	-1008.2	-957.5				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.7	-942.7	-957.1	-967.5	-972.2	-977.2	-996.6	-1008.2	-957.5				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.7	-942.7	-957.1	-967.5	-972.2	-977.2	-996.6	-1008.2	-957.5				
Total TL of exterior	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9			ft2	m2	
Total Interior DNL prediction	57.3	50.1	34.0	22.4	13.9	14.1	1.8	-7.2	36.3		100	9.2903	
A-weighted by octave band	31.3	34.1	25.0	19.4	13.9	15.1	2.8	-8.2					

AS | AW | BW | CW | DSE | ESE | **FS** | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHR

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	73.1	73.7	69.1	67.1	64.1	59.5	52.0	48.4	69.1		dBA		
Adjusted Outside Spectrum	73.1	73.7	69.1	67.1	64.1	59.5	52.0	48.4	69.1		69.1		
+ 10*log10(Total_Area)	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5					
											Areas (ft2):		
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	55.6%	125		
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	30.9%	39		
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	24.0%	27		
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=10, W=12.5, H=10	-3.4	-4.4	-3.9	-4.5	-4.3	-4.6	-5.5	-5.8					
Direct Field SPL	48.4	46.9	31.5	21.5	16.3	12.2	-3.6	-13.3	32.2		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	59.6	56.9	42.2	31.6	26.6	22.2	5.3	-4.7	42.5		36.3	42.9	43.7
Total SPL	59.9	57.4	42.6	32.0	27.0	22.6	5.8	-4.1	42.9		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	58.6	51.7	35.5	23.9	15.5	15.7	3.4	-5.7	37.7				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-939.5	-946.5	-962.7	-974.2	-982.6	-982.5	-994.8	-1003.8	-960.4				
SPL from TL of Air Duct:	-917.8	-918.3	-922.3	-924.9	-927.7	-932.6	-941.0	-944.9	-922.8				
SPL from TL of Open Area:	-917.8	-918.3	-922.3	-924.9	-927.7	-932.6	-941.0	-944.9	-922.8				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	51.6	53.7	39.4	29.0	24.4	19.3	-0.1	-11.7	39.0				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-941.5	-939.4	-953.7	-964.1	-968.7	-973.8	-993.2	-1004.8	-954.1				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	49.9	52.1	37.7	27.3	22.8	17.7	-1.7	-13.4	37.3				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-941.5	-939.4	-953.7	-964.1	-968.7	-973.8	-993.2	-1004.8	-954.1				
Total TL of exterior	-22.3	-24.4	-35.1	-43.1	-45.3	-44.8	-53.2	-59.2					
Total Interior DNL prediction	59.9	57.4	42.6	32.0	27.0	22.6	5.8	-4.1	42.9				
A-weighted by octave band	33.9	41.4	33.6	29.0	27.0	23.6	6.8	-5.1					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHR

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	73.1	73.5	68.6	66.6	63.9	59.3	51.6	47.7	68.8		dBA		
Adjusted Outside Spectrum	73.1	73.5	68.6	66.6	63.9	59.3	51.6	47.7	68.8		68.8		
+ 10*log10(Total_Area)	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3					
											Areas (ft2):		
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	51.3%	73		
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	30.3%	44		
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	18.6%	27		
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=14.36, W=24.12, H=10	-6.6	-7.6	-7.6	-8.3	-8.1	-8.3	-9.0	-9.3					
Direct Field SPL	46.2	49.1	40.2	27.5	18.9	15.8	-3.0	-15.1	35.9		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	54.3	56.0	47.2	33.5	25.1	21.9	2.1	-10.4	42.7		43.6		43.6
Total SPL	55.0	56.8	48.0	34.5	26.1	22.8	3.3	-9.2	43.6		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	53.3	56.0	32.1	21.0	10.2	2.1	-0.8	-11.2	40.1				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-943.8	-941.1	-965.0	-976.1	-986.8	-994.9	-997.8	-1008.3	-957.0				
SPL from TL of Air Duct:	-922.2	-922.9	-927.7	-930.4	-933.0	-937.7	-946.2	-950.4	-928.1				
SPL from TL of Open Area:	-922.2	-922.9	-927.7	-930.4	-933.0	-937.7	-946.2	-950.4	-928.1				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	47.9	47.2	45.8	32.2	23.9	20.7	-1.0	-15.5	38.9				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.9	-947.6	-949.0	-962.6	-970.9	-974.1	-995.8	-1010.3	-955.9				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	45.8	45.1	43.7	30.1	21.7	18.6	-3.1	-17.6	36.7				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.9	-947.6	-949.0	-962.6	-970.9	-974.1	-995.8	-1010.3	-955.9				
Total TL of exterior	-22.8	-20.3	-24.3	-35.1	-41.0	-39.4	-50.5	-58.8					
Total Interior DNL prediction	55.0	56.8	48.0	34.5	26.1	22.8	3.3	-9.2	43.6				
A-weighted by octave band	29.0	40.8	39.0	31.5	26.1	23.8	4.3	-10.2					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...	
Measured Outside Spectrum	71.6	71.8	66.6	64.5	62.1	57.5	49.8	45.6	66.9		dBA	
Adjusted Outside Spectrum	71.6	71.8	66.6	64.5	62.1	57.5	49.8	45.6	66.9		66.9	
+ 10*log10(Total_Area)	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6				
											Areas (ft2):	
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	65.2%	82	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%		
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%		
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%		
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	34.8%	44	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%		
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%		
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%		
Direct/Diffuse: L=12.5, W=10, H=10	-3.4	-4.4	-3.9	-4.5	-4.3	-4.6	-5.5	-5.8				
Direct Field SPL	44.9	47.9	36.6	23.8	15.4	12.3	-5.3	-17.2	33.7		Wall 1:	Wall 2: Total:
Diffuse Field SPL	56.1	58.1	47.3	33.9	25.7	22.2	3.6	-8.7	44.1		44.4	44.4
Total SPL	56.4	58.5	47.7	34.3	26.1	22.6	4.1	-8.1	44.4		dBA	dBA dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	55.4	58.0	34.2	23.1	12.7	4.4	1.4	-9.4	42.1			
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-942.7	-940.2	-963.9	-975.0	-985.4	-993.7	-996.7	-1007.5	-956.0			
SPL from TL of Air Duct:	-921.1	-921.9	-926.6	-929.3	-931.5	-936.5	-945.1	-949.6	-926.9			
SPL from TL of Open Area:	-921.1	-921.9	-926.6	-929.3	-931.5	-936.5	-945.1	-949.6	-926.9			
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	49.6	48.8	47.5	33.9	25.9	22.6	0.8	-14.1	40.6		HVAC Macro	
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-945.8	-946.6	-947.9	-961.5	-969.5	-972.9	-994.6	-1009.5	-954.8			
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-945.8	-946.6	-947.9	-961.5	-969.5	-972.9	-994.6	-1009.5	-954.8			
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-945.8	-946.6	-947.9	-961.5	-969.5	-972.9	-994.6	-1009.5	-954.8			
Total TL of exterior	-22.4	-19.6	-25.7	-36.4	-42.4	-40.9	-50.8	-58.5			ft2	m2
Total Interior DNL prediction	56.4	58.5	47.7	34.3	26.1	22.6	4.1	-8.1	44.4		125	11.613
A-weighted by octave band	30.4	42.5	38.7	31.3	26.1	23.6	5.1	-9.1				

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...	
Measured Outside Spectrum	70.8	70.8	65.0	62.9	61.0	56.5	48.4	43.3	65.6		dBA	
Adjusted Outside Spectrum	70.8	70.8	65.0	62.9	61.0	56.5	48.4	43.3	65.6		65.6	
+ 10*log10(Total_Area)	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6				
											Areas (ft2):	
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	65.2%	82	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%		
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%		
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%		
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	34.8%	44	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%		
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%		
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%		
Direct/Diffuse: L=12.5, W=9.5, H=10	-3.3	-4.3	-3.8	-4.4	-4.2	-4.5	-5.4	-5.7				
Direct Field SPL	44.1	46.9	35.0	22.2	14.3	11.3	-6.7	-19.5	32.5		Wall 1:	Wall 2: Total:
Diffuse Field SPL	55.4	57.2	45.8	32.4	24.7	21.3	2.3	-10.8	43.0		43.3	43.3
Total SPL	55.7	57.6	46.2	32.8	25.1	21.7	2.8	-10.3	43.3		dBA	dBA dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	54.7	57.1	32.7	21.6	11.7	3.5	0.1	-11.6	41.2			
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-943.4	-941.1	-965.4	-976.5	-986.4	-994.6	-998.0	-1009.7	-956.9			
SPL from TL of Air Duct:	-921.9	-922.8	-928.1	-930.8	-932.5	-937.4	-946.3	-951.8	-928.0			
SPL from TL of Open Area:	-921.9	-922.8	-928.1	-930.8	-932.5	-937.4	-946.3	-951.8	-928.0			
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	48.9	47.9	46.0	32.4	24.9	21.7	-0.5	-16.3	39.2		HVAC Macro	
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.5	-947.6	-949.4	-963.0	-970.5	-973.7	-995.9	-1011.7	-956.2			
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.5	-947.6	-949.4	-963.0	-970.5	-973.7	-995.9	-1011.7	-956.2			
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.5	-947.6	-949.4	-963.0	-970.5	-973.7	-995.9	-1011.7	-956.2			
Total TL of exterior	-22.4	-19.6	-25.7	-36.4	-42.4	-40.9	-50.8	-58.5			ft2	m2
Total Interior DNL prediction	55.7	57.6	46.2	32.8	25.1	21.7	2.8	-10.3	43.3		125	11.613
A-weighted by octave band	29.7	41.6	37.2	29.8	25.1	22.7	3.8	-11.3				

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1												RED = inputs
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
Measured Outside Spectrum	70.4	70.2	64.1	62.1	60.3	55.9	47.7	41.9	64.9		adjust to...		
Adjusted Outside Spectrum	70.4	70.2	64.1	62.1	60.3	55.9	47.7	41.9	64.9		dBA		
+ 10*log10(Total_Area)	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6			64.9		
											Areas (ft2):		
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	100.0%		780	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=78, W=84, H=10	-14.7	-15.8	-15.4	-17.0	-17.1	-17.1	-18.0	-18.5					
Direct Field SPL	42.6	42.4	39.7	26.9	19.3	16.5	-4.9	-21.1	33.2		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	48.6	46.9	44.8	29.8	22.0	19.2	-3.8	-20.8	37.9		39.2		39.2
Total SPL	49.6	48.2	46.0	31.6	23.8	21.0	-1.3	-17.9	39.2		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-947.3	-945.3	-970.0	-982.0	-992.0	-999.8	-1003.4	-1015.9	-961.1				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-947.3	-945.3	-970.0	-982.0	-992.0	-999.8	-1003.4	-1015.9	-961.1				
SPL from TL of Air Duct:	-925.7	-927.0	-932.7	-936.3	-938.2	-942.6	-951.7	-958.0	-933.2				
SPL from TL of Open Area:	-925.7	-927.0	-932.7	-936.3	-938.2	-942.6	-951.7	-958.0	-933.2				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	49.6	48.2	46.0	31.6	23.8	21.0	-1.3	-17.9	39.2				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.4	-951.8	-954.0	-968.4	-976.2	-979.0	-1001.3	-1017.9	-960.8				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.4	-951.8	-954.0	-968.4	-976.2	-979.0	-1001.3	-1017.9	-960.8				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.4	-951.8	-954.0	-968.4	-976.2	-979.0	-1001.3	-1017.9	-960.8				
Total TL of exterior	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9					
Total Interior DNL prediction	49.6	48.2	46.0	31.6	23.8	21.0	-1.3	-17.9	39.2				
A-weighted by octave band	23.6	32.2	37.0	28.6	23.8	22.0	-0.3	-18.9					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1												RED = inputs
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
Measured Outside Spectrum	70.0	69.4	63.1	61.0	59.6	55.2	46.7	40.0	64.0		adjust to...		
Adjusted Outside Spectrum	70.0	69.4	63.1	61.0	59.6	55.2	46.7	40.0	64.0		dBA		
+ 10*log10(Total_Area)	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6			64.0		
											Areas (ft2):		
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	69.8%		69	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	30.2%		30	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=9.93, W=11.62, H=10	-1.9	-2.5	-0.8	-1.8	-1.9	-2.6	-3.9	-4.5					
Direct Field SPL	42.9	45.2	32.0	19.3	11.9	8.9	-9.0	-23.2	30.5		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	55.2	56.8	45.5	31.7	24.2	20.4	1.2	-13.8	42.6		42.9		42.9
Total SPL	55.5	57.1	45.7	31.9	24.4	20.7	1.6	-13.3	42.9		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	54.7	56.7	33.1	21.6	11.9	3.4	-0.7	-14.3	40.9				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-943.8	-941.7	-965.3	-976.9	-986.5	-995.0	-999.2	-1012.8	-957.5				
SPL from TL of Air Duct:	-922.2	-923.5	-928.0	-931.2	-932.7	-937.8	-947.5	-954.9	-928.3				
SPL from TL of Open Area:	-922.2	-923.5	-928.0	-931.2	-932.7	-937.8	-947.5	-954.9	-928.3				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	47.9	46.6	45.5	31.5	24.2	20.7	-2.3	-20.0	38.5				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.9	-948.2	-949.3	-963.3	-970.6	-974.2	-997.1	-1014.8	-956.3				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.9	-948.2	-949.3	-963.3	-970.6	-974.2	-997.1	-1014.8	-956.3				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-946.9	-948.2	-949.3	-963.3	-970.6	-974.2	-997.1	-1014.8	-956.3				
Total TL of exterior	-22.3	-19.4	-26.3	-36.9	-42.9	-41.5	-50.9	-58.4					
Total Interior DNL prediction	55.5	57.1	45.7	31.9	24.4	20.7	1.6	-13.3	42.9				
A-weighted by octave band	29.5	41.1	36.7	28.9	24.4	21.7	2.6	-14.3					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...		
Measured Outside Spectrum	71.2	70.8	64.6	62.6	61.0	56.5	48.2	41.9	65.5		dBA		
Adjusted Outside Spectrum	71.2	70.8	64.6	62.6	61.0	56.5	48.2	41.9	65.5		65.5		
+ 10*log10(Total_Area)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4					
											Areas (ft2):		
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	100.0%	187		
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=18.68, W=11.96, H=10	-4.7	-5.6	-5.0	-5.9	-5.8	-6.2	-7.1	-7.6					
Direct Field SPL	45.8	38.9	20.5	9.6	2.4	3.0	-9.3	-20.7	24.8		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	56.9	48.9	31.3	19.4	12.3	12.4	-1.0	-12.9	35.2		35.5	34.7	38.2
Total SPL	57.2	49.3	31.6	19.8	12.7	12.9	-0.4	-12.2	35.5		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	57.2	49.3	31.6	19.8	12.7	12.9	-0.4	-12.2	35.5				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-942.8	-950.7	-968.4	-980.2	-987.3	-987.1	-1000.4	-1012.2	-964.5				
SPL from TL of Air Duct:	-921.1	-922.4	-928.0	-930.9	-932.4	-937.3	-946.5	-953.3	-927.9				
SPL from TL of Open Area:	-921.1	-922.4	-928.0	-930.9	-932.4	-937.3	-946.5	-953.3	-927.9				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.6	-959.4	-970.1	-973.4	-978.4	-998.7	-1013.2	-958.5				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.6	-959.4	-970.1	-973.4	-978.4	-998.7	-1013.2	-958.5				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.6	-959.4	-970.1	-973.4	-978.4	-998.7	-1013.2	-958.5				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.6	-959.4	-970.1	-973.4	-978.4	-998.7	-1013.2	-958.5				
Total TL of exterior	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9					
Total Interior DNL prediction	57.2	49.3	31.6	19.8	12.7	12.9	-0.4	-12.2	35.5				
A-weighted by octave band	31.2	33.3	22.6	16.8	12.7	13.9	0.6	-13.2					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...		
Measured Outside Spectrum	69.3	68.5	63.8	60.7	57.8	53.2	44.5	38.3	63.0		dBA		
Adjusted Outside Spectrum	69.3	68.5	63.8	60.7	57.8	53.2	44.5	38.3	63.0		63.0		
+ 10*log10(Total_Area)	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5					
											Areas (ft2):		
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	64.5%	77		
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	35.5%	43		
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=18.68, W=11.96, H=10	-4.6	-5.5	-4.9	-5.7	-5.7	-6.0	-7.0	-7.4					
Direct Field SPL	42.6	39.8	24.4	13.3	8.2	4.1	-13.0	-25.3	25.2		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	52.4	48.6	33.9	21.8	16.9	12.3	-5.9	-18.7	34.2		35.5	34.7	38.2
Total SPL	52.9	49.1	34.4	22.4	17.4	12.9	-5.2	-17.9	34.7		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	51.6	43.3	27.1	14.2	5.8	5.9	-7.7	-19.5	29.8				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-946.5	-954.8	-971.0	-983.9	-992.3	-992.2	-1005.8	-1017.6	-968.3				
SPL from TL of Air Duct:	-924.8	-926.5	-930.6	-934.6	-937.4	-942.3	-952.0	-958.6	-932.1				
SPL from TL of Open Area:	-924.8	-926.5	-930.6	-934.6	-937.4	-942.3	-952.0	-958.6	-932.1				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	47.0	47.8	33.4	21.7	17.1	12.0	-8.7	-23.0	33.0				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-948.5	-947.7	-962.1	-973.8	-978.4	-983.5	-1004.2	-1018.6	-962.5				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-948.5	-947.7	-962.1	-973.8	-978.4	-983.5	-1004.2	-1018.6	-962.5				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-948.5	-947.7	-962.1	-973.8	-978.4	-983.5	-1004.2	-1018.6	-962.5				
Total TL of exterior	-22.3	-24.3	-35.0	-43.0	-45.2	-44.7	-53.2	-59.3					
Total Interior DNL prediction	52.9	49.1	34.4	22.4	17.4	12.9	-5.2	-17.9	34.7				
A-weighted by octave band	26.9	33.1	25.4	19.4	17.4	13.9	-4.2	-18.9					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHR

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...		
Measured Outside Spectrum	71.3	71.0	64.8	62.8	61.2	56.7	48.4	42.3	65.7		dBA		
Adjusted Outside Spectrum	71.3	71.0	64.8	62.8	61.2	56.7	48.4	42.3	65.7		65.7		
+ 10*log10(Total_Area)	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	100.0%		174	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=17.43, W=11.92, H=10	-4.5	-5.4	-4.8	-5.7	-5.6	-5.9	-6.9	-7.3					
Direct Field SPL	45.8	39.0	20.7	9.7	2.5	3.1	-9.2	-20.4	24.9		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	56.9	49.0	31.3	19.4	12.4	12.5	-0.8	-12.5	35.2		35.6	36.3	39.0
Total SPL	57.2	49.4	31.7	19.9	12.8	13.0	-0.2	-11.9	35.6		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	57.2	49.4	31.7	19.9	12.8	13.0	-0.2	-11.9	35.6				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-942.8	-950.6	-968.3	-980.1	-987.2	-987.0	-1000.2	-1011.9	-964.4				
SPL from TL of Air Duct:	-921.1	-922.3	-927.9	-930.8	-932.3	-937.1	-946.4	-953.0	-927.8				
SPL from TL of Open Area:	-921.1	-922.3	-927.9	-930.8	-932.3	-937.1	-946.4	-953.0	-927.8				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.5	-959.4	-970.0	-973.3	-978.3	-998.6	-1012.9	-958.5				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.5	-959.4	-970.0	-973.3	-978.3	-998.6	-1012.9	-958.5				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.5	-959.4	-970.0	-973.3	-978.3	-998.6	-1012.9	-958.5				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.8	-943.5	-959.4	-970.0	-973.3	-978.3	-998.6	-1012.9	-958.5				
Total TL of exterior	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9				ft2	m2
Total Interior DNL prediction	57.2	49.4	31.7	19.9	12.8	13.0	-0.2	-11.9	35.6			174	16.189
A-weighted by octave band	31.2	33.4	22.7	16.9	12.8	14.0	0.8	-12.9					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHR

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA		adjust to...		
Measured Outside Spectrum	70.4	70.1	64.7	62.3	59.7	55.2	47.0	40.9	64.6		dBA		
Adjusted Outside Spectrum	70.4	70.1	64.7	62.3	59.7	55.2	47.0	40.9	64.6		64.6		
+ 10*log10(Total_Area)	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	64.3%		77	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	35.7%		43	
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=17.43, W=11.92, H=10	-4.4	-5.3	-4.7	-5.6	-5.5	-5.8	-6.8	-7.2					
Direct Field SPL	43.7	41.4	25.3	14.9	10.1	6.1	-10.5	-22.7	26.7		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	53.7	50.4	34.9	23.6	19.0	14.5	-3.2	-15.9	35.8		35.6	36.3	39.0
Total SPL	54.1	50.9	35.4	24.2	19.5	15.1	-2.5	-15.1	36.3		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	52.8	45.0	28.1	15.9	7.8	8.1	-5.1	-16.7	31.3				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-945.3	-953.0	-970.0	-982.2	-990.2	-990.0	-1003.1	-1014.8	-966.8				
SPL from TL of Air Duct:	-923.6	-924.8	-929.6	-932.8	-935.3	-940.2	-949.3	-955.8	-930.3				
SPL from TL of Open Area:	-923.6	-924.8	-929.6	-932.8	-935.3	-940.2	-949.3	-955.8	-930.3				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	48.2	49.6	34.5	23.5	19.2	14.2	-6.0	-20.2	34.7				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-947.3	-945.9	-961.0	-972.0	-976.3	-981.3	-1001.5	-1015.8	-960.8				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-947.3	-945.9	-961.0	-972.0	-976.3	-981.3	-1001.5	-1015.8	-960.8				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-947.3	-945.9	-961.0	-972.0	-976.3	-981.3	-1001.5	-1015.8	-960.8				
Total TL of exterior	-22.3	-24.3	-35.0	-43.0	-45.2	-44.7	-53.2	-59.3				ft2	m2
Total Interior DNL prediction	54.1	50.9	35.4	24.2	19.5	15.1	-2.5	-15.1	36.3			119	11.074
A-weighted by octave band	28.1	34.9	26.4	21.2	19.5	16.1	-1.5	-16.1					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHR

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	71.8	71.8	65.9	63.9	62.0	57.5	49.4	44.0	66.6		dBA		
Adjusted Outside Spectrum	71.8	71.8	65.9	63.9	62.0	57.5	49.4	44.0	66.6		66.6		
+ 10*log10(Total_Area)	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	100.0%		174	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=17.43, W=11.92, H=10	-4.5	-5.4	-4.8	-5.7	-5.6	-5.9	-6.9	-7.3					
Direct Field SPL	46.3	39.8	21.8	10.8	3.3	3.9	-8.2	-18.7	25.6		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	57.4	49.8	32.4	20.5	13.2	13.3	0.2	-10.8	35.9		36.3	35.9	39.1
Total SPL	57.7	50.2	32.8	21.0	13.6	13.8	0.8	-10.2	36.3		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	57.7	50.2	32.8	21.0	13.6	13.8	0.8	-10.2	36.3				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-942.3	-949.8	-967.2	-979.0	-986.4	-986.2	-999.2	-1010.2	-963.7				
SPL from TL of Air Duct:	-920.6	-921.5	-926.8	-929.7	-931.5	-936.3	-945.4	-951.3	-926.9				
SPL from TL of Open Area:	-920.6	-921.5	-926.8	-929.7	-931.5	-936.3	-945.4	-951.3	-926.9				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.3	-942.7	-958.3	-968.9	-972.5	-977.5	-997.6	-1011.2	-957.6				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.3	-942.7	-958.3	-968.9	-972.5	-977.5	-997.6	-1011.2	-957.6				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.3	-942.7	-958.3	-968.9	-972.5	-977.5	-997.6	-1011.2	-957.6				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-944.3	-942.7	-958.3	-968.9	-972.5	-977.5	-997.6	-1011.2	-957.6				
Total TL of exterior	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9					
Total Interior DNL prediction	57.7	50.2	32.8	21.0	13.6	13.8	0.8	-10.2	36.3				
A-weighted by octave band	31.7	34.2	23.8	18.0	13.6	14.8	1.8	-11.2					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRA

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	70.1	69.5	64.9	61.8	58.8	54.2	45.7	39.6	64.0		dBA		
Adjusted Outside Spectrum	70.1	69.5	64.9	61.8	58.8	54.2	45.7	39.6	64.0		64.0		
+ 10*log10(Total_Area)	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	54.5%		77	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	35.7%		43	
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=17.43, W=11.92, H=10	-4.4	-5.3	-4.7	-5.6	-5.5	-5.8	-6.8	-7.2					
Direct Field SPL	43.4	40.8	25.5	14.4	9.2	5.1	-11.8	-24.0	26.2		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	53.4	49.8	35.1	23.1	18.1	13.5	-4.5	-17.2	35.4		36.3	35.9	39.1
Total SPL	53.8	50.3	35.6	23.7	18.6	14.1	-3.8	-16.4	35.9		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	52.5	44.4	28.3	15.4	6.9	7.1	-6.4	-18.0	30.8				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-945.6	-953.6	-969.8	-982.7	-991.1	-991.0	-1004.4	-1016.1	-967.3				
SPL from TL of Air Duct:	-923.9	-925.4	-929.4	-933.3	-936.2	-941.2	-950.6	-957.1	-930.9				
SPL from TL of Open Area:	-923.9	-925.4	-929.4	-933.3	-936.2	-941.2	-950.6	-957.1	-930.9				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	47.9	49.0	34.7	23.0	18.3	13.2	-7.3	-21.5	34.2				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-947.6	-946.5	-960.8	-972.5	-977.2	-982.3	-1002.8	-1017.1	-961.3				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-947.6	-946.5	-960.8	-972.5	-977.2	-982.3	-1002.8	-1017.1	-961.3				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-947.6	-946.5	-960.8	-972.5	-977.2	-982.3	-1002.8	-1017.1	-961.3				
Total TL of exterior	-22.3	-24.3	-35.0	-43.0	-45.2	-44.7	-53.2	-59.3					
Total Interior DNL prediction	53.8	50.3	35.6	23.7	18.6	14.1	-3.8	-16.4	35.9				
A-weighted by octave band	27.8	34.3	26.6	20.7	18.6	15.1	-2.8	-17.4					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRA

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	72.1	72.2	66.4	64.4	62.4	58.0	50.0	44.9	67.0		dBA		
Adjusted Outside Spectrum	72.1	72.2	66.4	64.4	62.4	58.0	50.0	44.9	67.0		67.0		
+ 10*log10(Total_Area)	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	100.0%		187	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=18.68, W=11.96, H=10	-4.7	-5.6	-5.0	-5.9	-5.8	-6.2	-7.1	-7.6					
Direct Field SPL	46.7	40.3	22.3	11.4	3.8	4.5	-7.5	-17.7	26.1		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	57.8	50.3	33.1	21.2	13.7	13.9	0.8	-9.9	36.4		36.8	37.6	40.3
Total SPL	58.1	50.7	33.4	21.6	14.1	14.4	1.4	-9.2	36.8		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	58.1	50.7	33.4	21.6	14.1	14.4	1.4	-9.2	36.8				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-941.9	-949.3	-966.6	-978.4	-985.9	-985.6	-998.6	-1009.2	-963.2				
SPL from TL of Air Duct:	-920.2	-921.0	-926.2	-929.1	-931.0	-935.8	-944.7	-950.3	-926.3				
SPL from TL of Open Area:	-920.2	-921.0	-926.2	-929.1	-931.0	-935.8	-944.7	-950.3	-926.3				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-943.9	-942.2	-957.6	-968.3	-972.0	-976.9	-996.9	-1010.2	-957.1				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-943.9	-942.2	-957.6	-968.3	-972.0	-976.9	-996.9	-1010.2	-957.1				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-943.9	-942.2	-957.6	-968.3	-972.0	-976.9	-996.9	-1010.2	-957.1				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-943.9	-942.2	-957.6	-968.3	-972.0	-976.9	-996.9	-1010.2	-957.1				
Total TL of exterior	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9					
Total Interior DNL prediction	58.1	50.7	33.4	21.6	14.1	14.4	1.4	-9.2	36.8				
A-weighted by octave band	32.1	34.7	24.4	18.6	14.1	15.4	2.4	-10.2					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRA

Input: octave (1) or third-octave (2)	1											RED = inputs	
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	71.4	71.6	66.5	64.1	61.3	56.8	49.0	44.3	66.3		dBA		
Adjusted Outside Spectrum	71.4	71.6	66.5	64.1	61.3	56.8	49.0	44.3	66.3		66.3		
+ 10*log10(Total_Area)	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5					
												Areas (ft2):	
TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	64.5%		77	
TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-21.7	-28.2	-40.4	-49.3	-54.9	-49.8	-53.8	-58.9	5	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	35.5%		43	
TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-23.7	-21.1	-31.4	-39.2	-41.0	-41.2	-52.2	-59.9	7	0.0%			
Direct/Diffuse: L=18.68, W=11.96, H=10	-4.6	-5.5	-4.9	-5.7	-5.7	-6.0	-7.0	-7.4					
Direct Field SPL	44.7	42.9	27.1	16.7	11.7	7.7	-8.5	-19.3	28.2		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	54.5	51.7	36.6	25.2	20.4	15.9	-1.4	-12.7	37.1		36.8	37.6	40.3
Total SPL	55.0	52.2	37.1	25.8	20.9	16.5	-0.7	-11.9	37.6		dBA	dBA	dBA
SPL from TL of Wall 1: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	53.7	46.4	29.8	17.6	9.3	9.5	-3.2	-13.5	32.5				
SPL from TL of Wall 2: 2x4@16"oc, 1x5/8"gyp RC, 1x5/8"gyp, 3"batt (STC-50/OITC-38)	-944.4	-951.7	-968.3	-980.5	-988.8	-988.6	-1001.3	-1011.6	-965.6				
SPL from TL of Air Duct:	-922.7	-923.4	-927.9	-931.2	-933.9	-938.7	-947.5	-952.6	-928.8				
SPL from TL of Open Area:	-922.7	-923.4	-927.9	-931.2	-933.9	-938.7	-947.5	-952.6	-928.8				
SPL from TL of Window 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	49.1	50.9	36.1	25.1	20.6	15.6	-4.2	-17.0	36.1				
SPL from TL of Window 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-946.4	-944.6	-959.4	-970.4	-974.9	-979.9	-999.7	-1012.6	-959.4				
SPL from TL of Door 1: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-946.4	-944.6	-959.4	-970.4	-974.9	-979.9	-999.7	-1012.6	-959.4				
SPL from TL of Door 2: 3/8"lam-1/2"-1/4" IGU (STC-40/OITC-31)	-946.4	-944.6	-959.4	-970.4	-974.9	-979.9	-999.7	-1012.6	-959.4				
Total TL of exterior	-22.3	-24.3	-35.0	-43.0	-45.2	-44.7	-53.2	-59.3					
Total Interior DNL prediction	55.0	52.2	37.1	25.8	20.9	16.5	-0.7	-11.9	37.6				
A-weighted by octave band	29.0	36.2	28.1	22.8	20.9	17.5	0.3	-12.9					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRA

Input: octave (1) or third-octave (2)	1												RED = inputs
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	68.7	67.6	62.8	59.6	57.1	52.4	43.5	36.8	62.1		dBA		
Adjusted Outside Spectrum	68.7	67.6	62.8	59.6	57.1	52.4	43.5	36.8	62.1		62.1		
+ 10*log10(Total_Area)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9					
												Areas (ft2):	
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	46.2%		97	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	17.1%		36	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	36.7%		77	
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=21, W=22, H=10	-7.2	-8.3	-8.2	-9.0	-8.9	-9.0	-9.9	-10.2					
Direct Field SPL	42.2	43.5	35.3	21.4	13.0	9.8	-10.5	-25.6	30.5		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	50.9	50.9	42.9	27.9	19.7	16.4	-5.0	-20.6	38.0		38.7		38.7
Total SPL	51.4	51.6	43.6	28.8	20.5	17.2	-3.9	-19.4	38.7		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	49.5	50.6	26.9	14.4	3.9	-4.3	-8.5	-21.8	34.8				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-947.2	-946.1	-969.8	-982.2	-992.8	-1001.0	-1005.1	-1018.4	-961.8				
SPL from TL of Air Duct:	-925.6	-927.8	-932.5	-936.5	-938.9	-943.7	-953.5	-960.5	-933.8				
SPL from TL of Open Area:	-925.6	-927.8	-932.5	-936.5	-938.9	-943.7	-953.5	-960.5	-933.8				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	42.0	39.8	38.6	23.7	15.5	12.3	-10.7	-28.1	31.5				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.3	-952.6	-953.8	-968.7	-976.9	-980.1	-1003.1	-1020.4	-960.9				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	45.3	43.1	41.9	27.0	18.8	15.6	-7.4	-24.8	34.8				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-950.3	-952.6	-953.8	-968.7	-976.9	-980.1	-1003.1	-1020.4	-960.9				
Total TL of exterior	-23.0	-20.6	-23.9	-34.7	-40.6	-39.0	-50.4	-58.9				ft2	m2
Total Interior DNL prediction	51.4	51.6	43.6	28.8	20.5	17.2	-3.9	-19.4	38.7			210	19.51
A-weighted by octave band	25.4	35.6	34.6	25.8	20.5	18.2	-2.9	-20.4					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE

Input: octave (1) or third-octave (2)	1												RED = inputs
Octave Band:	63	125	250	500	1000	2000	4000	8000	dBA				
											adjust to...		
Measured Outside Spectrum	70.8	70.9	65.9	63.2	60.5	56.0	48.3	43.3	65.5		dBA		
Adjusted Outside Spectrum	70.8	70.9	65.9	63.2	60.5	56.0	48.3	43.3	65.5		65.5		
+ 10*log10(Total_Area)	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9					
												Areas (ft2):	
TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	46.2%		97	
TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-21.6	-18.2	-37.3	-45.7	-53.9	-57.2	-51.7	-57.9	8	0.0%			
TL of Air Duct:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0%			
TL of Open Area:	0	0	0	0	0	0	0	0		0.0%			
TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	17.1%		36	
TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	36.7%		77	
TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-24.7	-24.7	-21.3	-32.2	-38.0	-36.4	-49.6	-59.9	4	0.0%			
Direct/Diffuse: L=21, W=22, H=10	-7.2	-8.3	-8.2	-9.0	-8.9	-9.0	-9.9	-10.2					
Direct Field SPL	44.3	46.8	38.4	25.0	16.4	13.4	-5.7	-19.1	33.7		Wall 1:	Wall 2:	Total:
Diffuse Field SPL	53.0	54.2	46.0	31.5	23.1	20.0	-0.2	-14.1	41.2		41.9		41.9
Total SPL	53.5	54.9	46.7	32.4	23.9	20.8	0.9	-12.9	41.9		dBA	dBA	dBA
SPL from TL of Wall 1: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	51.6	53.9	30.0	18.0	7.3	-0.7	-3.7	-15.3	38.0				
SPL from TL of Wall 2: 2x6@16"oc, 1x5/8"gyp, 0.43"osb+0.37"stuc, 3"batt (STC-40/OITC-29)	-945.1	-942.8	-966.7	-978.6	-989.4	-997.4	-1000.3	-1011.9	-958.6				
SPL from TL of Air Duct:	-923.5	-924.5	-929.4	-932.9	-935.5	-940.1	-948.7	-954.0	-930.3				
SPL from TL of Open Area:	-923.5	-924.5	-929.4	-932.9	-935.5	-940.1	-948.7	-954.0	-930.3				
SPL from TL of Window 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	44.1	43.1	41.7	27.3	18.9	15.9	-5.9	-21.6	34.7				
SPL from TL of Window 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-948.2	-949.3	-950.7	-965.1	-973.5	-976.5	-998.3	-1013.9	-957.7				
SPL from TL of Door 1: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	47.4	46.4	45.0	30.6	22.2	19.2	-2.6	-18.3	38.0				
SPL from TL of Door 2: 1/4"-1/2"-1/4" IGU (STC-35/OITC-28)	-948.2	-949.3	-950.7	-965.1	-973.5	-976.5	-998.3	-1013.9	-957.7				
Total TL of exterior	-23.0	-20.6	-23.9	-34.7	-40.6	-39.0	-50.4	-58.9				ft2	m2
Total Interior DNL prediction	53.5	54.9	46.7	32.4	23.9	20.8	0.9	-12.9	41.9			210	19.51
A-weighted by octave band	27.5	38.9	37.7	29.4	23.9	21.8	1.9	-13.9					

HVAC Macro

AS | AW | BW | CW | DSE | ESE | FS | FE | GE | HE | IE | JE | KE | LS | LW | MS | ME | NS | NW | OS | OE | PW | QE | Data - TL | Data - ASHRAE