1. GENERAL

A. This building has been designed in accordance with 2022 California Building Code.
B. The Notes apply to all drawings.
C. All work shall bew in accordance with all State and Local Building Codes in effect at the place of building.
D. Details and Notes on Typical Sheets shall apply unless specifically shown otherwise. Details of construction not fully shown shall be of the same nature as shown for similar conditions.
E. Do not scale structural drawings.
G. See Mechanical, Electrical and/or Architectural Drawings for locations and sizes of pipes, conduits, floor drains, vents, ducts, drain leaders and other similar openings not indicated on the Structural Drawings.

2. FOUNDATION

A. Unless otherwise shown, excavation shall be as near as possible to the neat lines required by the size and shape of the footings. The footings shall be cast in earth trenches without formins.
B. Over excavation shall be backfilled with concrete or shall be reported to the Engineer and backfilled as he directs.
C. For Grading and Earthwork recommendations and inspection, see Soils Report: N/A no soils report
D. Allowable Soil Pressure: 1500 PSF (D.L. + L.L.)
E. The Soils Engineer shall verify in writing thal all of the requirements in the soils report have been incorporated into the plans and specificiations: N/A no soils report
F. Prior to requesting a Building Department foundation inspection, the soils engineer shall inspect and approve the foundation excavations: N/A no soils report
G. Prior to requesting a Building Department foundation inspection, final grading and compaction reports shall be submitted to and approved by the Building Department and any revisions from the original soils report incorporated into the plans and specifications.: N/A no soils report

3. CONCRETE WORK

A. Portland Cement shall conform to the ASTM Standard Specification for Portland Cement, C-150 latest edition. Type II at all locations. One brand of cement shall be used throughout. Air entraining or admixtures may be used (none shall contain calcium chlonde).
B. Aggregates: ASTM C-33 latest edition. Aggregates at footings, may be ordinary local aggregates. All other concrete including that at exterior sidewalks, slabs and precast panels shall have granite or approved limestone coarse aggregate and sand fine aggregate.
C. MIX DESIGN
1. Concrete Mix Design: All concrete mixes shall be designed by a Testing Laboratory approved by the Engineer. All mixes shall conform to applicable Building Code requirements, regardless of any minimum requirements listed herein or on the drawings. All mix designs shall be submitted to the Engineer for approval before being used. Mix design shall show proportions of cement, fine and coarse aggregate, and water and graduation of combined aggregates.
2. Minimum Mix Requirements: It shall be the contractor's responsibility to design the mixes to provide the minimum requirements listed below.

	Minimum Strength @ 28 Days	Maximum Slump	Maximum Aggregate Size
FOUNDATION	3000 (calcs use 2500)	4	3/4 inch
SLAB ON GRADE	3000 (calcs use 2500)	4	3/4 inch

D. All reinforcing shall conform to ASTM A615, Grade 60, except that Grade 40 shall be used at the following locations: All panel dowels, and all #3. Provide lap splice of 40 dia. (min.) for Panel reinforcing,
E. Reinforcing clearances: 3" surfaces poured against earth, 2" at formed surface exposed to earth or weather 1 1/2" at all other surfaces, except where shown otherwise.
F. Unless otherwise shown, all exposed edges of concrete shall have 3/4" chamfer.
G. All reinforcing, anchor bolts, inserts, etc., shall be ridgidly secured in place prior to pouring concrete.
H. All horizontal reinforcing to be supported on galvanized chairs, except that mortar blocks or other approved method of support shall be used at footings, and land slabs on grade.
I. Form Removal: Edge forms at slab and panels - 24 hours after pouring.
Walls less than 4'-0" high - 36 hours after pouring.

BASE SHEAR SEISMIC DESIGN PARAMETERS

(IBC 2021/CBC 2022- ASCE7-16)
(WITH EQUIVALENT LATERAL PROCEDURE)

PER OSHPD SEISMIC DEIGN MAPS THE PROJECT BUILDING LOCATES AT:
LATITUDE= 37.909776
LONGITUIDE= -121.648132

PER THE PARAMETERS OBTAINED FROM USGS SITE:

S_s = 1.308 (Figure: 22-1) I = 1 R = 1.25
Fv = 1.5 F_a = 1.2
SM_s = Fa*Ss= 1.57
SM_1 = Fv*S1= .696G
S_{DS} = 2/3*SMs=1.406G
S_{D1} = 2/3*SM1=.464
Cs = S_{DS}/(R/I)=.837G
V= Cs*W=.837W SOIL CLASSIFICATION : D
USE0.7V=.586W SEISMIC DESIGN CATEGORY : E

WIND DESIGN PARAMETERS

ULTIMATE DESIGN WIND SPEED = 110 MPH (EXPOSURE C)
NOMINAL DESIGN WIND SPEED = 85 MPH (EXPOSURE C)

STRUCTURAL STEEL

A. All structural steel and miscellaneous iron shall be ASTM A36: Use AISC Specs and Code of Standard Practice. Use AWS Specs for Welding. All welds shall use 70XX Electrodes. SPECIAL INSPECTION REQUIRED
B. All high strength bolts shall be A325 in bearing type connections with threads excluded from shear planes. Use "Turn the Nut Method: to tighten bolts. SPECIAL INSPECTION REQUIRED.
C. COLD FORMED WELDED STRUCTURAL STEEL TUBING: All cold formed welded structural steel tubing is produced in accordance with mechanical and chemical property requirements of ASTM Specifications A500, Grade B modified to 46 KSI yield point.
D. WELDING REINFORCING STEEL: Welding Electrodes: ASTM A233 E7018 for Grade 40, E9018 for Grade 60. PROVIDE SPECIAL INSPECTION.
When reinforcing steel is to be welded to A36 steel, welding shall conform to AWS D1-4 and AWS2.4.

LUMBER - TIMBER FRAMING

A. All framing lumber shall be Douglas Fir Larch #2, manufactured and graded per WCLIB or WWPA Grading rules latest editions, unless specifically shown otherwise. For lumber grades - see plan. Studs, blocing and plates shall be #2 or better. Lumber shall be in accordance with CBC.
B. Roof Sheathing - See Plan.
C. "Glued laminated timber" shall be manufactured from species and grades of lumber which will produce design values equal or exceeding the following when loaded perpendicular to the wide faces of the laminations:
Bending (Fb) = 2400 PSI Horizontal Sheal (Fv) = 155 PSIE
Compression perpendicular to grain on the compression face (Fc) = 385 PSI
Compression perpendicular to grain on the tension face (Fc) = 450 PSI
Modulus of Elasticity (E) = 1,800,000 PSI. Maximum moisture content - 19%.

Glu-lam beams shall be industrial appearance unless noted on plans. Provide tension lam at top and bottom of cantilever. Provide AITC Certification to Building Department.
D. Minimum standard nailing at each board or member at each point of contact, except where shown otherwise shall be as follows: (All common nails)

Studs to Plates: 2-10d or 1-16d toenail each side.
Joints to supports: 2-10d or 1-16d toenail each side.
Double Top Plate: Upper to Lower: 16 d at 24 inches.
Lower to Stud: 2-16d nails.
At splices: 4 extra 16d each side of splice.

Solid Blocking: 2-10d toenails each side to each joint or 2-16d nails.
Multiple Studs: 16d at 24 inches each member.
Roof Sheathing: Ednge nails and field nailing - as shown on drawings.

E. All Machine Bolts (M.B.) shall be A307.
F. Bolt holes in steel shall be 1/16" larger than bolts. Provide M.I. Washers at all heads or nuts bearing against wood. Retighten all bolts before closing in or upon job completion.
G. All reference of 'KC' indicates structural fasteners manufactured by "KC Metal Products."

MASONRY:

A. CONCRETE MASONRY UNITS SHALL BE 8"x 8"x 16" NOMINAL OPEN END LIGHTWEIGHT HOLLOW UNITS CONFORMING TO ASTM C90, GRADE N, TYPE I, OF 1900 psi UNLESS OTHERWISE NOTED (f'm = 1500 psi)
ALL BLOCK VOIDS SHALL BE GROUTED SOLID USING 6'-0" MAXIMUM LIFTS.

B. MORTAR SHALL BE TYPE S CONFORMING TO ASTM C270 AND ATTAINING A MINIMUM COMPRESSIVE STRENGTH OF 2000 psi IN 28 DAYS. MORTAR SHALL BE FRESHLY PREPARED, UNIFORMLY MIXED, AND SHALL HAVE PROPORTIONS OF ONE (1) PART PORTLAND CEMENT, 1/2 PART LIME PUTTY OR HYDRATED LIME, AND 4 1/2 PARTS MORTAR SAND BY VOLUME.

C. GROUT SHALL CONFORM TO ASTM C476, ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,000 psi IN 28 DAYS, AND CONSIST OF ONE (1) PART PORTLAND CEMENT, 2 1/4 to 3 PARTS SAND, AND 1 to 2 PARTS of 3/8" PEA GRAVEL.

D. COVER: ALL REINFORCING BARS, EXCEPT JOINT REINFORCING, SHALL BE COMPLETELY EMBEDDED IN MORTAR OR GROUT AND HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER (INCLUDING THE MASONRY UNIT) WHERE SUCH COVER IS NOT SPECIFIED ON THE DRAWINGS.
2" WHEN PERMANENTLY EXPOSED TO SOIL.
1 1/2" WHEN EXPOSED TO THE WEATHER.
3/4" MINIMUM FOR PROTECTED CONDITIONS.
BUT, THE CLEAR DISTANCE BETWEEN THE SURFACE OF THE BAR AND ANY SURFACE OF A MASONRY UNIT SHALL NOT BE LESS THAN 1/2", EXCEPT FOR CROSS WEBS OF HOLLOW UNITS USED AS SUPPORTS FOR HORIZ. REINF.

E. STORAGE: ALL CONCRETE MASONRY UNITS SHALL BE COVERED AND PROTECTED FROM INCLEMENT WEATHER.

FOUNDATION PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH ARCH DRAWINGS
2. SEE ARCH DRAWINGS FOR ALL OPENING SIZES, SLAB SLOPES, DEPRESSIONS, FLOOR DRAINS, CURBS, ETC
3. SEE SHEET S3, S4 FOR WALL SECTIONS
4. INDICATES CMU WALL
5. INDICATES 18"Ø CONCRETE PIER - 10' DEEP
6. SEE S1 FOR BAR BENDS AND HOOKS REINFORCING DETAILS
7. CENTER ALL FOOTINGS BELOW COLUMNS
8. PRIOR TO THE CONTRACTOR REQUESTING A FOUNDATION INSPECTION, THE SOIL ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
a) THE BUILDING EXCAVATION AND BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOIL REPORT;
b) THE FOUNDATION FORMING AND GRADING COMPLY WITH THE SOIL REPORT AND APPROVED PLANS;
9. ALL HOLD DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.

SPECIAL INSPECTION

A. All special inspection agencies/individuals and shop fabricators shall be approved by the building department prior to any work being performed. Submit all documentation for approval. Special inspector will be employed by the owner.
B. The following items require special inspection (P - periodic, C - Continuous)
1. Concrete
Inspection of reinforcing steel (P)
Verifying use of required design mix (P)
2. Structural Masonry
Proportions of site-prepared mortar (P)
Construction of mortar joints (P)
Location of Reinforcement (P)
Verify type, size and location of anchors (P)
Verify specified size, grade, and type of reinforcement (P)
Prior to grouting, verify grout space is clean (P)
Prior to grouting, verify placement of reinforcement (P)
Prior to grouting, construction of mortar joints (P)
Prior to grouting, proportions of site pre-pared grout (P)
Verify grout placement to ensure compliance with code and construction document provisions (C)
Observe preparation of required grout and mortar specimens (C)
Verify compliance with required inspection provisions of the construction documents and the approved submittals (P)
3. Steel:
Complete and partial penetration groove welds (C)
Multi pass fillet welds (C)
Single pass fillet welds > 5/16" (C)
Single pass fillet welds < or equal to 5/16" (P)
Roof deck welds (P)

REGISTERED PROFESSIONAL ENGINEER
SCOTT CIBOTTI
C62912
JUNE 30, 2026
CIVIL
STATE OF CALIFORNIA

DWGS. PREPARED BY:
SCOTT CIBOTTI

REVISIONS	BY

ENGINEER OF RECORD:
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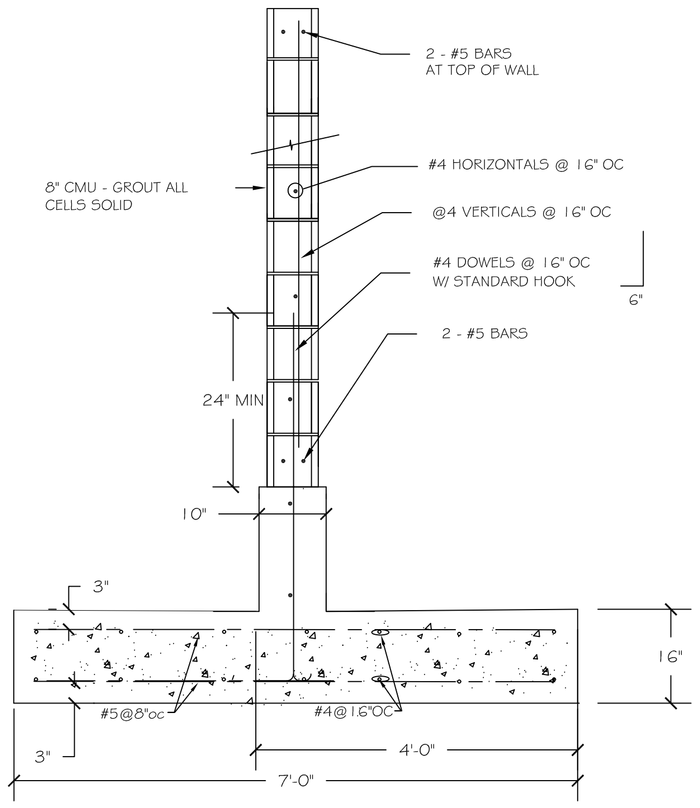
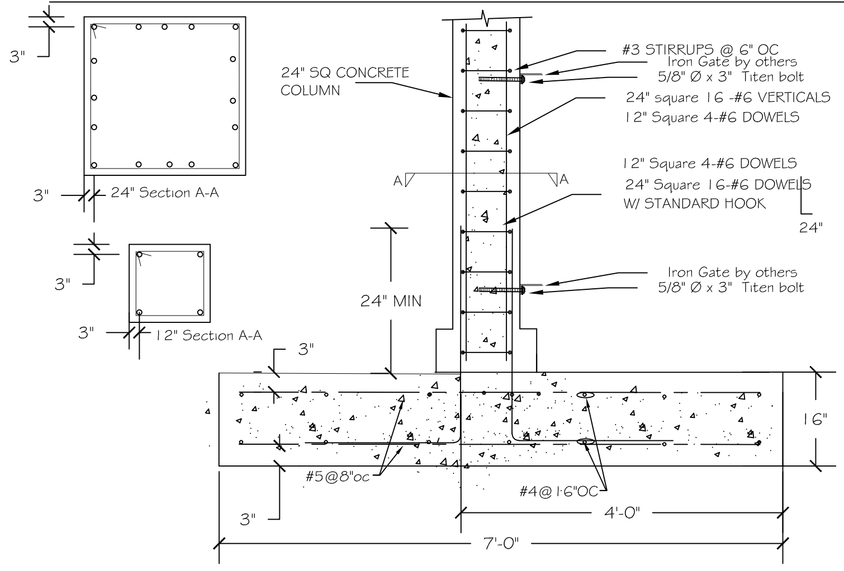
STRUCTURAL NOTES

Brentwood Cemetery
11545 Brentwood Blvd
Brentwood, Ca

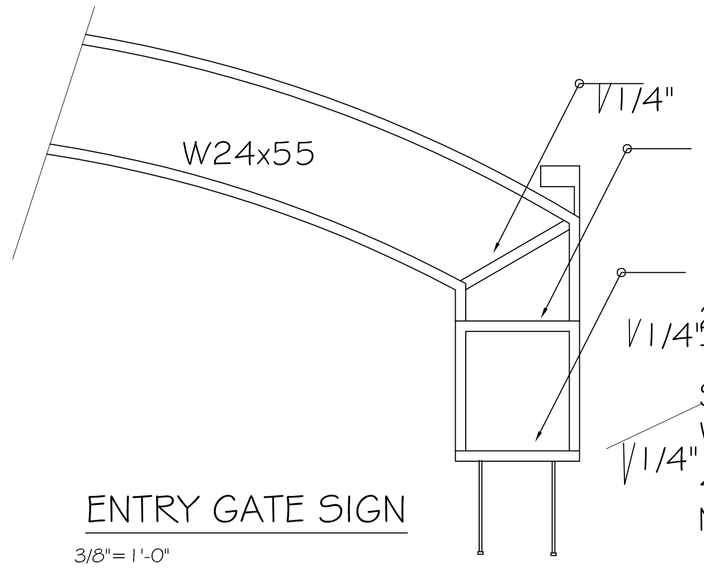
Date: 2/12/25
Scale: AS SHOWN
Drawn: SC
Sheet
SN1



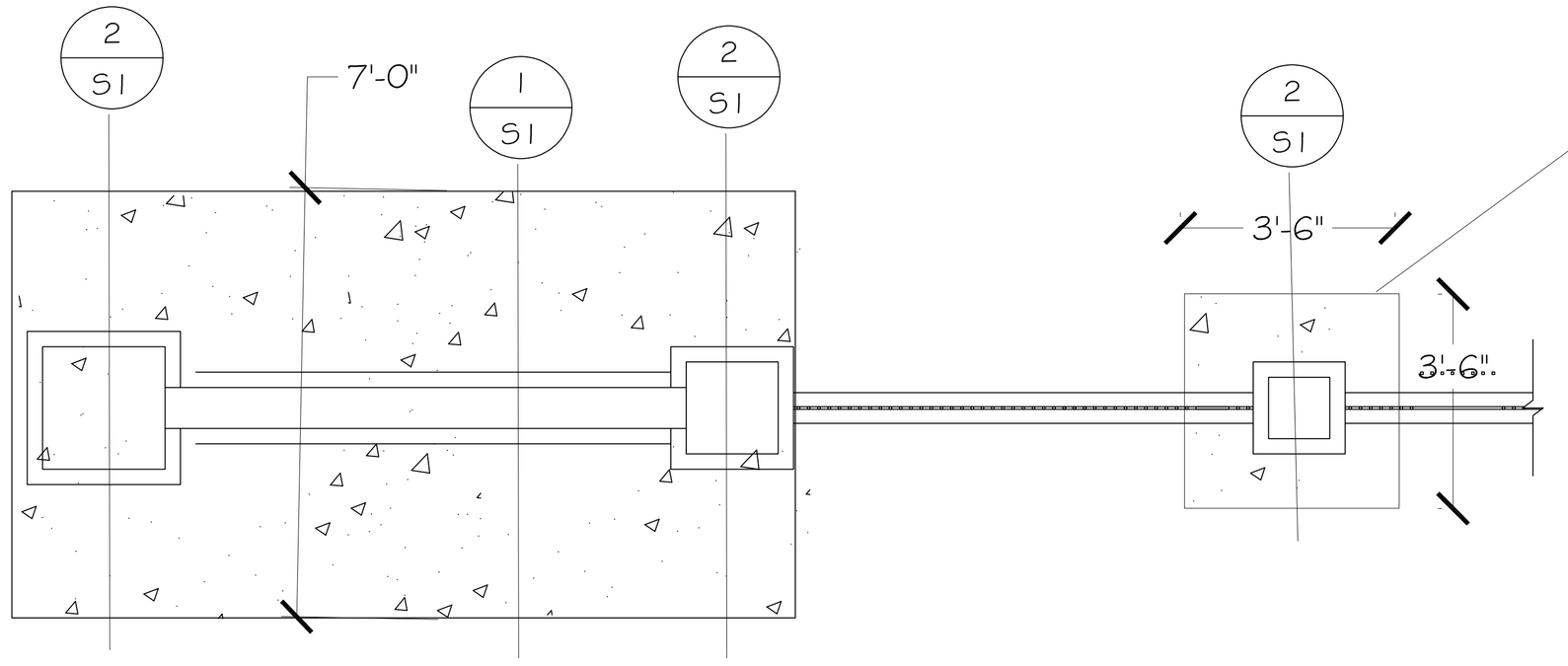
DETAIL 1 Entry Wall
3/4"



DETAIL 2 Entry Pilaster
3/4"



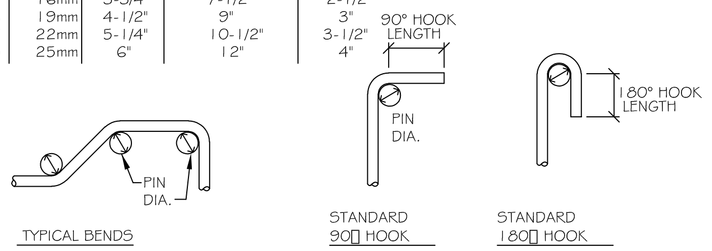
ENTRY GATE SIGN
3/8"= 1'-0"



FOUNDATION PLAN ENTRY GATE
3/8"= 1'-0"

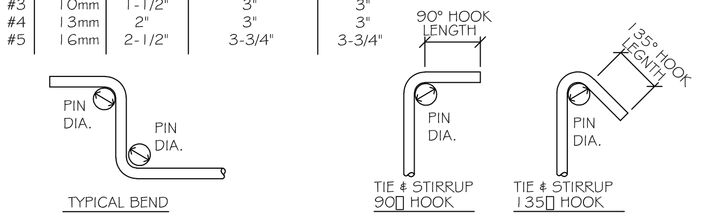
STANDARD HOOK DIMENSIONS

BAR SIZE US	BAR SIZE METRIC	MIN. PIN DIA.	MIN. 90° HOOK LENGTH	MIN. 135° HOOK LENGTH
#3	10mm	2-1/4"	4-1/2"	2-1/2"
#4	13mm	3"	6"	2-1/2"
#5	16mm	3-3/4"	7-1/2"	2-1/2"
#6	19mm	4-1/2"	9"	3"
#7	22mm	5-1/4"	10-1/2"	3-1/2"
#8	25mm	6"	12"	4"

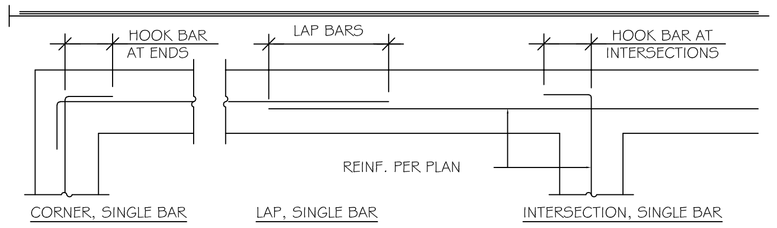


TIE AND STIRRUP HOOK DIMENSIONS

BAR SIZE US	BAR SIZE METRIC	MIN. PIN DIA.	MIN. 90° HOOK LENGTH	MIN. 135° HOOK LENGTH
#3	10mm	1-1/2"	3"	3"
#4	13mm	2"	3"	3"
#5	16mm	2-1/2"	3-3/4"	3-3/4"



BAR BENDS



BAR SIZE US	BAR SIZE METRIC	MIN. PIN DIA.	MIN. 90F HOOK LENGTH	TOP BAR LAP LENGTH	BOTTOM BAR LAP LENGTH
#4	13 mm	3"	6"	27"	21"
#5	16 mm	3-3/4"	7-1/2"	51"	39"
#6	19 mm	4-1/2"	9"	47"	61"
#7	22 mm	5-1/4"	10-1/2"	68"	82"
#8	25 mm	6"	12"	78"	101"

FOOTING AT INTERSECT. & CORNERS

REGISTERED PROFESSIONAL ENGINEER
SCOTT CIBOTTI
C62912
JUNE 30, 2026
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2/24/25

DWGS. PREPARED BY: S. Cibotti
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REVISIONS	BY

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Entry Gate

Brentwood Cemetery
11545 Brentwood Blvd
Brentwood, Ca

Date: 2/14/25
Scale: AS SHOWN
Drawn: SC
Sheet
S1