CODE ABBREVIATIONS:

"CBC" - CALIFORNIA BUILDING CODE 2022

"CRC" - CALIFORNIA RESIDENTIAL CODE 2022 "CEC" - CALIFORNIA ELECTRICAL CODE 2022

"CPC" - CALIFORNIA PLUMBING CODE 2022

"CMC" - CALIFORNIA MECHANICAL CODE2022 "CENC" - CALIFORNIA ENERGY CODE 2022

"CALGREEN" - CALIFORNIA GREEN BUILDING STANDARDS CODE 2022

"ASCE 7-16" - AMERICAL SOCIETY OF CIVIL ENGINEERS

"SDPWS" - SPECIAL DESIGN PROVISIONS FOR WIND \$ SEISMIC 2019

DEFERRED APPROVALS

FIRE SPRINKLERS

PROVIDE AN AUTOMATIC FIRE SPRINKLER SYSTEM DESIGNED PER

NOTE: A SEPARATE PERMIT FOR THE SPRINKLER SYSTEM IS APPLIED FOR WITH THE COUNTY FIRE PROTECTION DISTRICT. NO PERMIT WILL BE ISSUED PRIOR TO APPROVAL OF THE FIRE PROTECTION SYSTEMS

ENGINEERED TRUSSES

NOTE: PRIOR TO INSTALLATION OF TRUSSES, TWO COPIES OF THE FOLLOWING MATERIALS BEARIN GHT APPORVAL OF THE DESIGNER (IN THE FORM OF SHOP DRAWING APPROVAL OR SEPARATE LETTER) MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR REVIEW AT LIEAST 2 WEEKS PRIOR TO FRAME INSPECTION TRUSS LAYUOUT DRAWINGS

2. TRUSS CALCULATIONS \$ DETAILS SHOWING AXIAL \$ BEDNING STRESS \$ JOINT DESIGNS, CLEARLY INDICATING THAT DESIGN.

SOLAR PANELS

PROVIDE A SOLAR SYSTEM DESIGN TO THE COUNTY FOR APPROVAL PRIOR TO INSTALLATION

LIST OF PROJECT CONSULTANTS

CIVIL ENGINEERING

MANJIT SAINI, P.E. 591 ROUGH \$ READY RD. SAN JOSE, CA 95133 408-313-5400

STRUCTURAL ENGINEERING

HJH EWNGIEERING JACK HADJIAN 23006 ERWIN ST. WOODLAND, CA 91367

818 519 8572 HJHENGINEERING.COM NRG COMPLIANCE INC. PO BOX 3777 SANTA ROSA, CA 95402 TEL 707-237-6957

ENERGY COMPLIANCE

CALGREEN

CALGREEEN SERVICES GARY WELCH - PRINCIPAL 12849 CRESTHAVEN DRIVE. GROVELAND CA 95321 707-328-5299

RESIDENCE IS LOCATED WITHIN WILDLAND URBAN INTERFACE ZONE

- CLASS "A" ROOFING LIGHTWGT CONC ROOFING BORAL FLAT SHINGLE SEE SHEETAS
- WALL CONSTGRUCTION SHALL BE PER NOTES AND DETAILS ON SHEETS A13
- MIN. 26 GA GALY VALLEY FLASHING OVER MIN. 36"-WIDE 90# MINERAL-SURFACED NON-PERFORATED CAP
- 4. GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION OF LEAVES AND DEBRIS MILL-FINISH ALUMINUM GUTTER GUARDS W/ 1/8" SCREENING - SEE SHEET A6
- 5. ATTIC VENTILATION VENTS SHALL HAVE OPENINGS THAT ARE A MIN. OF 1/16" AND A MAX. OF 1/8", AND SHALL BE NONCOMBUSTIBLE AS WELL AS CORROSION RESISTANT. VULCAN VENTS \$ O'HAGEN ROOF VENTS - SEE
- 6. ALL EAVES AND SOFFITS SHALL BE PROTECTED WITH CEMENT PLASTER (STUCCO) TO MATCH WALLS
- 7. ALL WINDOWS AND EXTERIOR GLAZED DOORS SHALL HAVE A FIRE-RESISTANT RATING OF 20 MINUTES, AND BE GLAZED WITH TEMPERED GLASS
- 8. DECKING SHALL BE PROTECTED PER CBC PART 2.5, SECTION R337.9 ALL GROUND-LEVEL PATIOS SHALL BE POURED CONCRETE, AND ALL SECOND-FLOOR WOOD DECKS SHALL BE TILE W/ A MUDBED \$ MTL LATH OVER A WATERPROOF MEMBRANE - SEE DETAIL 5. SHEET A14. THE EXPOSED-TO-EXTERIOR UNDERSIDE OF
- ALL ELEVATED WOOD DECKS SHALL HAVE "JAMES HARDIE V- GROOVE" SIDING ATTACHED 9. PRIOR TO RECEIVING BUILDING-PERMIT FINAL APPROVAL, THE PROPERTY SHALL BE MADE TO COMPLY WITH THE VEGETATION MANAGEMENT REQUIREMENTS PRESCRIBED IN THE CALIFORNIA FIRE CODE SECTION 4906, INCLUDING CALIFORNIA PUBLIC RESOURCES CODE 4291 OR CALIFORNIA GOVERNMENT CODE SECTION 51182.

SCOPE OF WORK

NEW SINGLE FAMILY RESIDENCE

PROJECT INFORMATION

OWNER: JAMES LE LOCATION: BELLA MADIERA, SAN JOSE, CA 95127

APN: 654-64-012 LOT AREA: 3.73 ACRES ZONING: HS-DL OCCUPANCY: R-3 TYPE OF CONSTRUCTION: V-B AUTOMATIC FIRE SPRINKLERS: FIRE SPRINKLERS WILL BE INSTALLED

MAIN LEVEL S.F.: 2.528.25 UPPER LEVEL S.F.: 2,353 TOTAL LIVING AREA S.F.: 5,850 GARAGE SQUARE FOOTAGE: 882 PATIO/ROOFED AREAS: LOWER LEVEL COVERED S.F.: 31.15 MAIN LEVEL UNCOVERED S.F.: 220.45 MAIN LEVEL COVERED S.F.: 374.5 UPPER LEVEL UNCOVERED S.F.: 206.7 UPPER LEVEL COVERED S.F.: 81.5

HERS	REQU	IREM	ENTS

NUMBER OF STORIES: 3

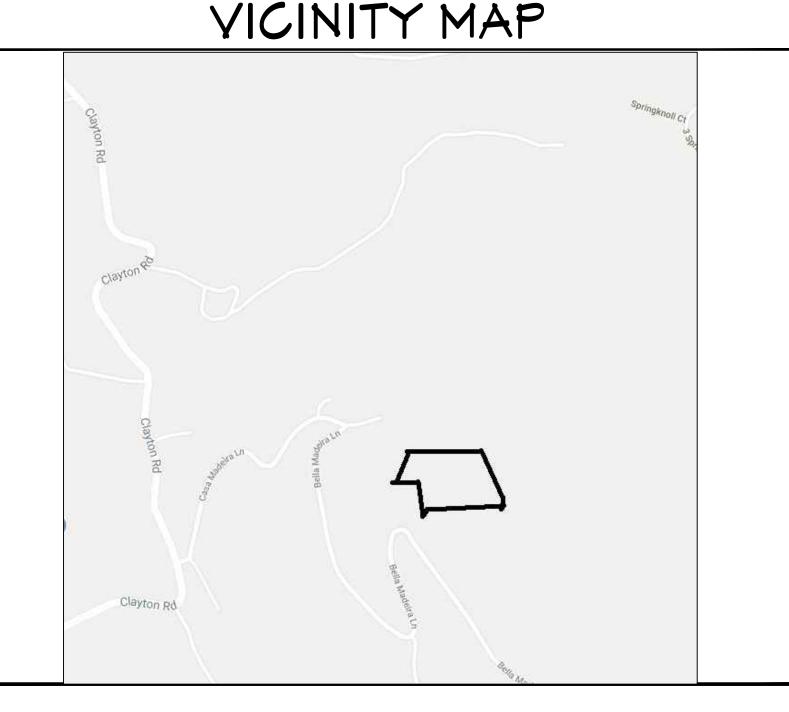
LIVING AREA:

BUILDING HEIGHT: 38'-10"

LOWER LEVEL S.F.: 971.5

BUILDING-LEVEL VERIFICATIONS

- QUALITY INSULATION INSTALLATION (QII)
- ·INDOOR AIR QUALITY VENTILATION
- ·KITCHEN RANGE HOOD
- COOLING SYSTEM VERIFICATIONS:
- · MINIMUM AIRFLOW
- · VERIFIED EER
- · VERIFIED REFRIGERANT CHARGE
- FAN EFFICACY WATTS/CFM
- HEATING SYSTEM VERIFICATIONS: • -- NONE --
- HYAC DISTRIBUTION SYSTEM VERIFICATIONS:
- DUCT LEAKAGE TESTING
- DOMESTIC HOT WATER SYSTEM VERIFICATIONS:
- -- NONE --



ABBREVIATIONS ANCHOR BOLT ASPHALTIC CONC ACCOUSTIC ALUMINUM BLK BLOCK COLD JOINT CONCRETE CONTINUOUS CAST IRON

CONC CONT DOUGLAS FIR ELEVATION EXISTING EXIST EXISTING EXT EXTERIOR F.E. FIRE EXTINGUISHER

FINISH FACE OF CONC FACE OF BLOCK F.O.S. FACE OF STUD FOUNDATION FOOTING GALVINIZED GALVINIZED IRON

METAL

NOT IN CONTRACT

FDN FTG GALY GYP. GYPSUM BOARD HOSE BIBB H.B. INSUL INSULATION INTERIOR INY INVERT MACHINE BOLT MEDICINE CHEST MIN. MINIMUM

T.O.P. YGDF

NOT TO SCALE NOMINAL ON CENTER OPENING LAM PLAS LAMINATED PLASTIC PL GL PLATE GLASS PLYWOOD RDWD REDWOOD RAIN WATER LEADER RWL TEMP GL T.O.C.

SHEE

SHEET TITLE

AI.0 COVER SHEET

CONDITIONS OF APPROVAL

CIVIL ENGINEERING DRAWINGS

G-00 COVER SHEET AND GENERAL NOTES

A1.2 CONDITIONS OF APPROVAL

G-01 EXISTING SITE CONDITIONS

C-1.0 SITE GRADING KEY PLAN

C-1.1 FIRE TURNAROUND PLAN \$ FIRE

C-1.0 DRIVEWAY CROSS SECTIONS \$

EROSION CONTROL PLAN

BMP- EROSION CONTROL DETAIL-

BMP-2 EROSION CONTROL DETAIL-2

TREE LOCATION PLAN

LF-1 SEPTIC AND LEACH FIELD PLAN

LF-2 LEACH FIELD PLAN LEACH FIELDS DTLS

LF-3 LEACH FIELDS DETAILS PERCOLATION

LF-4 PROPOSED SUMP PUMP \$ STORAGE

LF-5 LEACH FIELD DTLS \$ PERCOLATION TESTS

PLANTING AND TREE MITIGATION PLAN

HYDRANT LOCATION PLAN

C-2.0 GRADING \$ DRAINAGE PLAN (10F2)

C-2.1 GRADING \$ DRAINAGE PLAN (20F2)

C-3.0 DRIVEWAY GRADING /PLAN \$ PROFILE

C-4.0 BUILDING LAYOUT \$ UTILITIES LOCATION

APPROACH PLAN \$ PROFILE

G-02 TOPOGRAPHIC SURVEY

G-03 RECORD OF SURVEY

C-5.0 HOUSE PAD SECTION

GRADING DETAIL

DETAILS

L-2 IRRIGATION PLAN

TEST SUMMARY

A6 ROOF PLAN

TANK SPECIFICATIONS

LF-6 SUMP PUMP \$ STORAGE TANK

LF-7 SUMP PUMP \$ STORAGE TANK

A2 FLOOR AREA CALCULATIONS

A3 LOWER LEVEL FLOOR PLAN

A5 UPPER LEVEL FLOOR PLAN

A4 MAIN LEVEL FLOOR PLAN

L-3 DETAILS

C-6.0 SECTIONS

NDEX

AT EXTERIOR ELEVATIONS

AS EXTERIOR ELEVATIONS

BUILDING SECTIONS

CABINET ELEVATIONS

T242 | CERTIFICATE OF COMPLIANCE

T243 | CERTIFICATE OF COMPLIANCE

GENERAL NOTES \$ SPECS

GENERAL NOTES \$ SPECS

2ND FLOOR FRAMING PLAN

1ST FLR FOUNDATION \$ FRAMING PLAN

STRUCTURAL SHEETS

91.2 STEEL MOMENT FRAME

91.3 STEEL MOMENT FRAME

S2.0 BSMT FOUNDATION PLAN

ROOF FRAMING PLAN

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

STRUCTURAL DETAILS

HEXI HARDY FRAAME DETAILS

HFX2 HARDY FRAAME DETAILS

ELECTRICAL SHEETS

CG-1 CHECKLIST \$ VOC LIMITS

AND INDICATIONS

GENERAL NOTES \$ SPECS

LOWER LEVEL ELECTRICAL PLAN

MAIN LEVEL ELECTRICAL PLAN

CG-2 CWM FORMS \$ RECYCLED CONTENT

CG-3 POLLUTANT CONTROL FORMS #1

CG-4 POLLUTANT CONTROL FORMS #2

UPPER LEVEL ELECTRICAL PLAN

56.2 STRUCTURAL DETAILS

SIO STRUCTURAL DETAILS

CERTIFICATE OF COMPLIANCE

BUILDING SECTION

49 BUILDING SECTION

AIO | BUILDING SECTION

DETAILS

DETAILS

A13

A14

SHEET TITLE

SIMILAR TEMPERED GLASS TONGUE AND GROOVE TOP OF CURB TOP OF PLATE TYPICAL UNLESS OTHERWISE NOTED

YERTICAL GRAIN DOUGLAS WATER CLOSET WELDED WIRE FABRIC THRESHOLD

SECTION NO. BUILDING SECTION SHEET NO.

DETAIL INDICATION

DOOR INDICATION

CONCRETE

INSULATION

MASONRY

PLYWOOD

MORTAR, GROUT

CEMENT PLASTER

FINISH WOOD

ROUGH WOOD

GYPSUM BOARD

GRAYEL

EARTH

METAL

WINDOW SYMBOL

FILE NO. 10706-17G R4

STEVE BENZING ARCHITECT

FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

OWNERSHIP AND USE OF DRAWINGS

DEROGATION OF STEVE BENZING - ARCHITECT, COMMON LAW



COYER SHEET

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

SCALE: NOTED

DRAWN BY:SMB JOB NO.

OF 15

12/27/2023 10:41:17 AM, Steve Benzing - Architect

- 28. The improvement plans shall include an Erosion and Sediment Control Plan that outlines seasonally appropriate erosion and sediment controls during the construction period). Include the County's Standard Best Management Practice Plan Sheets BMP-1 and BMP-2 with the Plan Set.
- 29. All applicable easements affecting the parcel(s) with benefactors and recording information shall be shown on the improvement plans.

30. Provide a drainage analysis prepared by a licensed civil engineer in accordance with criteria as designated in the 2007 County Drainage Manual (see Section 6.3.3 and Appendix L for design requirements). The on-site drainage will be controlled in such a manner as to not increase the downstream peak flow for the 10-year and 100-year storm event or cause a hazard or public nuisance. The mean annual precipitation is available on the on-line property profile.

31. All new on-site utilities, mains and services shall be placed underground and extended to serve the proposed development. All extensions shall be included in the improvement plans. Off-site work should be coordinated with any other undergrounding to serve other properties in the immediate area.

Stormwater Treatment – SF Bay Watershed

32. Include one of the following site design measures in the project design: (a) direct hardscape and/or roof runoff onto vegetated areas, (b) collect roof runoff in cisterns or rain barrels for reuse, or (c) construct hardscape (driveway, walkways, patios, etc.) with permeable surfaces. Though only one site design measure is required, it is encouraged to include multiple site design measures in the project design. For additional information, please refer to the C.3 Stormwater Handbook (June 2016) available at the following website: § www.scvurppp.org > Resources > reports and work products > New Development and Redevelopment > C.3 Stormwater Handbook (June 2016)

- 33. Submit one copy of the signed and stamped of the geotechnical report for the project.
- 34. Submit a plan review letter by the Project Geotechnical Engineer certifying that the geotechnical recommendation in the above geotechnical report have been incorporated into the improvement plan.

Notice of Intent

35. Indicate on the improvement plans the land area that will be disturbed. If one acre or more of land area will be disturbed, file a Notice of Intent (NOI) with the State Water Resources Control Board (SWRCB) for coverage under the State General Construction Permit. The SWRCB will issue a Waste Discharge Identification number (WDID). The WDID number File PLN17 - 10706 Zoning Administration Meeting

December 5, 2019 Continued Item #1

shall be shown on the on the final improvement plans. The SWRCB web site is at: www.waterboards.ca.gov > Water Issues > Programs > Stormwater

Page 7

36. Submit an Engineer's Estimate of Probable Construction Cost prepared by a registered civil engineer with the all stages of work clearly identified for all improvements and grading as proposed in this application. Pay necessary inspection and plan check fees and provide County with a Certificate of Worker's Compensation Insurance. (C12-206).

Environmental Health

James Le Design Review and Grading

- 37. Based upon a percolation rate of 6.3 minutes per inch, sewage conditions have been determined at 190 lineal feet plus 190 lineal feet. This sewage dispersal system shall be designed as a pressure dosing wastewater treatment system, sized to serve a 5-bedroom single family residence (600 gallons per day). The onsite wastewater treatment system (OWTS) shall require a 2,000-gallon septic tank and a 1,500 gallon pump tank.
- 38. At the time of application for a building permit, submit four (4) revised plot plans to scale (1" = 20') on a grading and drainage plan showing the house, driveway, accessory structures, septic tank and required drainlines to contour in order to obtain a septic system permit. Maintain all setbacks as outlined within County of Santa Clara Onsite Manual. The original plans must be submitted to the field office for sign-off prior to the issuance of the septic system permit, and submitted as the final grading plan to Land Development Engineering when a grading permit is required. Contact Ross Kakinami at 408-918-3479 for sign-off.
- 39. Submitted grading and drainage plans that show a closed drainage pipe placed over the proposed dispersal field. Prior to issuance of a building permit, revise drainage plan. Closed pipe drainage must maintain a minimum of a 10-foot horizontal setback to OWTS.
- 40. Prior to issuance of a building permit, provide a water will-serve letter from the local water purveyor (Bella Madeira).

Fire Marshal

Fire Protection Water

Note: Fire protection water system shall be functioning prior to approval of the foundation. System shall be maintained in good working order and accessible throughout construction. A stop work order may be placed on the project if the required hydrant systems are not installed, accessible, and/or functioning.

- 41. Fire-Flow: The minimum fire-flow shall be 500 gpm at 20 psi. (gpm has been reduced for installation of fire sprinklers). NOTE: the fire flow may be adjusted depending upon the final size of the structures shown on the building permit set of drawings.
- a. At the time of plan submittal for building permit, provide written verification from
- b. If an existing approved water system is within 300 ft. of the property line, extension File PLN17 - 10706 Zoning Administration Meeting James Le Design Review and Grading December 5, 2019 Continued Item #1

the water company that this condition can be satisfied.

abovementioned guidelines.

replacement of twenty-eight (28) 24-inch box California native oak trees are required per the

20. Prior to the issuance of a building permit, submit a final landscape documentation package for review and approval consistent with the preliminary landscape plan prepared by Pennino Design Group in August 2019, and as approved at the December 5, 2019 Zoning Administration hearing. The submittal shall include a landscape plan, showing the tree location and species, irrigation design and water budget calculation stamped and signed by a licensed landscape architect. The requirements of Division B33 of the County Ordinance Code (Sustainable Landscape Ordinance) shall apply as the total landscape area appears to exceed 2,500 square feet. The landscape ordinance and supporting information can be found on the following web page: https://www.sccgov.org/sites/dpd/PlansOrdinances/Landscape/Pages/welo-apply.aspx

- 21. Per County Municipal Code Division C16-3(e), any tree that was required to be planted or retained by the conditions of approval of any land use entitlement are protected trees, regardless the size. The project trees are subject to tree removal and replacement trees. Irrigation system is highly recommended to increase the tree's survival.
- 22. For all trees to be retained with a canopy in the development area or interfaces with the limits of grading for any proposed development on-site, the trees shall be protected by the placement of five (5)-foot tall rigid tree protective fencing, as shown on final grading and final building plans and must include the following:
- a. Fencing should be placed along the outside edge of the dripline of the tree or grove of
- b. The fencing should be maintained throughout the site during the entire construction period and should be inspected periodically for damage and proper functions.
- c. Fencing should be repaired as necessary to provide a physical barrier from construction
- d. The following sign shall be placed on all tree protection fencing and must remain until final occupancy. The sign must read: "Warning. This fencing shall not be removed without permission from the Santa Clara County Planning Office. County of Santa Clara tree protection measures may be found at: http://www.sccplanning.gov, or call 408-299-5770 for additional details."
- e. Protection measures must be in place prior to construction activity commencing. f. Evidence of tree protective fencing can be provided by taking photos and emailing to the project planner.

Landscape Permit

23. The requirements of Division B33 of the County Ordinance Code (Sustainable Landscape Ordinance) shall apply. Calculate square footage of new landscaped area and if it equals or exceeds 500 sq. feet, then a landscaping permit is required. The landscape ordinance and supporting information can be found on the following web page:

https://www.sccgov.org/sites/dpd/PlansOrdinances/Landscape/Pages/welo-apply.aspx

File PLN17 - 10706 Zoning Administration Meeting James Le Design Review and Grading December 5, 2019 Continued Item #1

<u>Land Development Engineering</u>

24. Obtain a Grading Permit from Land Development Engineering (LDE) prior to beginning any construction activities. Issuance of the grading permit is required prior to LDE clearance of the building permit (building and grading permits may be applied for concurrently). The process for obtaining a grading permit and the forms that are required can be found at the following web page:

www.sccplanning.org > I Want to.. > Apply for a Permit > Grading Permit If the County Roads and Airports Department provides a condition of approval to obtain an encroachment permit, for your convenience, the grading and encroachment permits will be processed concurrently under one set of improvement (grading) plans. Please contact LDE at (408) 299-5734 for additional information and timelines.

- 25. Final plans shall include a single sheet which contains the County standard notes and certificates, as shown on County Standard Cover Sheet. Plans shall be neatly and accurately drawn, at an appropriate scale that will enable ready identification and recognition of submitted information.
- 26. Final improvement plans shall be prepared by a licensed civil engineer for review and approval by LDE and the scope of work shall be in substantial conformance with the conditionally approved preliminary plans on file with the Planning Office. Include plan, profile, typical sections, contour grading for all street, road, driveway, structures and other improvements as appropriate for construction. The final design shall be in conformance with all currently adopted standards and ordinances. The following standards are available on-line: § Standard Details Manual, September 1997, County of Santa Clara, Roads and Airports www.sccgov.org/sites/rda > Published Standards, Specifications, Documents and Forms § March 1981 Standards and Policies Manual, Volume 1 (Land Development) www.sccplanning.org > Plans & Ordinances > Land Development Standards and Policies § 2007 Santa Clara County Drainage Manual www.sccplanning.org > Plans & Ordinances > Grading and Drainage Ordinance
- 27. Survey monuments shall be shown on the improvement plan to provide sufficient information to locate the proposed improvements and the property lines. Existing monuments must be exposed, verified and noted on the grading plans. Where existing monuments are below grade, they shall be field verified by the surveyor and the grade shall be restored and a temporary stake shall be placed identifying the location of the found monument. If existing survey monuments are not found, temporary staking delineating the property line may be placed prior to construction and new monuments shall be set prior to final acceptance of the improvements. The permanent survey monuments shall be set pursuant to the State Land Surveyor's Act. The Land Surveyor / Engineer in charge of the boundary survey shall file appropriate records pursuant to Business and Professions Code Section 8762 or 8771 of the Land Surveyors Act with the County Surveyor.

File PLN17 - 10706 **Zoning Administration Meeting** James Le Design Review and Grading Page 6 December 5, 2019 Continued Item #1 Ordinance Section B11-154 and prohibited between the hours of 7:00 p.m. and 7:00 a.m. on weekdays and Saturdays, or at any time on Sundays for the duration of construction.

Fire Marshal

11. General Requirements:

- a. These are minimum Fire Marshal standards. Should these standards conflict with any
- other local, state or federal requirement, the most restrictive shall apply.
- b. Construction of access roads and driveways shall use good engineering practice. c. All required access roads, driveways, turnarounds, and turnouts shall be installed, and serviceable prior to approval of the foundation, and shall be maintained throughout construction. A stop work order may be placed on the project if required driving surfaces are not installed, accessible, and/or maintained at all times.
- 12. Driveways (roads serving only one lot) shall comply with the following when the distance between the centerline of the access road and any portion of the structure exceeds 150 ft. (measured along the path of travel).
- a. Width: Clear width of drivable surface of 12 feet.
- b. Vertical Clearance: Minimum vertical clearance of 15 feet shall be maintained between the access road and the building site (trim or remove, tree limbs, electrical wires, structures, and similar improvements).
- c. Curve Radius: Inside turn radius for curves shall be a minimum of 50 feet.
- d. Grade: Maximum grade shall not exceed 16%. Grades exceeding 15% shall be paved in compliance with County Standard SD5.
- e. Surface: All driving surfaces shall be all-weather and capable of sustaining 75,000-pound gross vehicle weight f. Turnouts: Passing turnouts in compliance with SD-16 shall be provided at every 400 feet
- and wherever hydrants are placed adjacent to driveways.
- g. Turnarounds: Turnaround shall be provided for driveways in excess of 150 feet as measured along the path of travel from the centerline of the access road to the structure. Acceptable turnarounds shall be a 40-foot by 48-foot pad, hammerhead, or bulb of 40foot radius complying with County Standard SD-16. All turnarounds shall have a slope of not more than 5% in any direction.
- h. Gates: Gates shall not obstruct the required width or vertical clearance of the driveway and may require a Fire Department Lock Box/Gate Switch to allow for fire department access. Installation shall comply with CFMO-A3.

Miscellaneous:

13. Property is located within the State Response Area (served by Cal Fire).

- 14. This property is located in the Wildland/Urban Interface Fire Area. All of the following conditions shall apply:
- a. A Class "A" roof assembly is required. Detail shall be included in plans submitted for building permit.

Zoning Administration Meeting

December 5, 2019 Continued Item #1

File PLN17 - 10706 James Le Design Review and Grading

b. Provide a 1/2-inch spark arrester for the chimney. c. Remove significant combustible vegetation within 30 feet of the structure to minimize risk of wildfire casualty. Maintain appropriate separation of vegetative fuels in areas between 30 feet and 100 feet from the structure.

15. Maintenance: Fire protection water systems and equipment shall be accessible and maintained in operable condition at all times and shall be replaced or repaired where defective. Fire protection water shall be made available to the fire department. Fire department access roads, driveways, turnouts, and turnarounds shall be maintained free and clear and accessible at all times for fire department use. Gates shall be maintained in good working order and shall remain in compliance with Fire Marshal Standard CFMO-A3 at all times.

CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO FINAL GRADING AND BUILDING PERMIT ISSUANCE

- 16. Prior to issuance of any permits, the applicant shall pay all reasonable costs associated with the work by the Department of Planning and Development.
- 17. Prior to issuance of a building permit, and pursuant to Zoning Ordinance Section 5.20.125 record a Notice of Permit and Conditions with the County Office of Clerk-Recorder to ensure Archaeological Resources that successor property owners are aware that certain conditions of approval shall have enduring obligation. Evidence of such recordation shall be provided prior to building permit issuance.
- 18. Prior to issuance of a building permit, submit final color samples for the house facade, trim and roof indicating the Light Reflectivity Value (LRV)is less than or equal to 45 LRV, pursuant to Zoning Ordinance Section 3.20.040B, consistent with the project, color samples and plans approved at the November 7, 2019 Zoning Administration Hearing.

- 19. Grading and building plans shall clearly identify the size and species of all trees proposed for removal. For each tree Twelve (12)-inches (diameter) or greater designated for removal, replacement shall occur per the County of Santa Clara Guidelines for Tree Protection and Preservation for Land Use Applications. The following tree replacement ratios apply: • For the removal of one small tree (5- 18 inches):
 - (3) 15-gallon trees, or (2) 24-inch box trees. • For the removal of one medium tree (18 – 24 inches):
 - (4) 15-gallon trees or (3) 24-inch box trees.
 - For the removal of a tree larger than 24 inches
- (5) 15-gallon trees or (4) 24-inch box trees.

The project proposes to remove eight (8) California coastal live oak trees per Tree Removal Plan submitted on August 22, 2019. Based on the size of the trees to be removed,

File PLN17 - 10706

James Le Design Review and Grading

Zoning Administration Meeting December 5, 2019 Continued Item #1

ATTACHMENT B PRELIMINARY DESIGN REVIEW AND **GRADING APPROVAL CONDITIONS OF APPROVAL**

Date: December 5, 2019

Owner/Applicant: James Le

0 Bella Madeira Lane, San Jose, CA (APN: 654-64-012) Location: File Number: PLN17-10706 (10706-17G-17DR)

Categorically Exempt – Section 15303, Class 3(a) CEQA:

Project Description: Design Review Approval (Tier 2) and Grading Approval for a 6,735 square-foot single-family residence with attached garage. Associated site improvements include an approximate 500-foot driveway, septic system, and removal of eight (8) trees. Grading consists of approximately 1,745 cubic yards of cut and 670 cubic yards of fill (total 2,415 cubic yards). Approval is based on plans submitted on August 22, 2019.

> The proposed single-family residence is an approved building site, pursuant to Tract Map No. 6455. The project does not require coverage by the Santa Clara Valley Habitat Plan.

If you have any question regarding the following final conditions of approval, call the person whose name is listed below as the contact for that agency. She/he represents a specialty and can provide details about the conditions of approval.

Agency	Name	Phone	E-mail
Planning	Xue Ling	(408) 299- 5784	xue.ling@pln.sccgov.org
Environmental Health	Darrin Lee	(408) 299 – 5748	darrin.lee@cep.sccgov.org
Fire Marshal	Alex Goff	(408) 299 – 5763	alex.goff@sccfd.org
Land Development Engineering	Ed Duazo	(408) 299 - 5733	e <u>d.duazo@pln.sccgov.o</u> rg
Geology	Jim Baker	(408) 299 - 5774	jim.baker@pln.sccgov.org
Building Inspection		(408) 299 - 5700	

STANDARD CONDITIONS OF APPROVAL

Building Inspection

1. For detailed information about the requirements for a building permit, obtain a Building Permit Application Instruction handout from the Building Inspection Office or visit the website at www.sccbuilding.org.

2. Development must take place in substantial conformance with the approved plans, submitted on August 22, 2019 and the Conditions of Approval. Any changes to the proposed project

Zoning Administration Meeting December 5, 2019 Continued Item #1 James Le Design Review and Grading

may result in additional environmental review, pursuant to the California Environmental Quality Act, and additional Planning review.

3. Existing zoning is HS-d1 (Hillsides - Combined Design Review District). Maintain the following minimum dwelling setbacks (Zoning Ordinance Sections 2.20.030):

Front: 30 feet Sides: 30 feet Rear: 30 feet The maximum height of dwellings is 35 feet and shall not exceed three (3) stories.

4. Two (2) off-street parking spaces are required, one (1) of which must be covered.

5. With the exception of trim and minor details, the exterior surfaces of the house shall be painted muted colors with a light reflectivity value (LRV) of 45 or lower and shall be consistent with the color samples provided with this approval.

- 6. All on-site grading shall be limited to the work in this Grading Approval and as shown on the approved plans. Grading plans submitted into Plan Check shall be in substantial conformance with the approved plans received August 22, 2019. Any increase in grading quantities, or modification to the grading or design may require a Grading Approval and associated fees, as well as additional environmental review pursuant to the California Environmental Quality
- 7. Building and grading permits shall be submitted to the Building Inspection Office

8. In the event that human skeletal remains are encountered, the applicant is required by County Ordinance No. B6-18 to immediately notify the County Coroner. Upon determination by the County Coroner that the remains are Native American, the coroner shall contact the California Native American Heritage Commission, pursuant to subdivision (c) of section 7050.5 of the Health and Safety Code and the County Coordinator of Indian affairs. No further disturbance of the site may be made except as authorized by the County Coordinator of Indian Affairs in accordance with the provisions of state law and this chapter. If artifacts are found on the site a qualified archaeologist shall be contacted along with the County Planning Office. No further disturbance of the artifacts may be made except as authorized by the County Planning Office.

<u>Land Development Engine</u>er

9. Property owner is responsible for the adequacy of any drainage facilities and for the continued maintenance thereof in a manner that will preclude any hazard to life, health or damage to adjoining property.

Environmental Health

10. All construction activities shall be in conformance with the Santa Clara County Noise File PLN17 - 10706 Zoning Administration Meeting December 5, 2019 Continued Item #1 James Le Design Review and Grading

STEVE BENZING ARCHITECT

FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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CONDITIONS OF APPROVAL

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

DRAWN BY:SMB

JOB NO.

12/17/2023 10:41:27 AM, Steve Benzing - Architect

FILE NO. 10706-17G R4

GENERAL PROJECT NOTES

- A. THIS WORK SHALL COMPLY WITH ALL 2022 CBC, CFC, CMC, CPC, CEC, 2022 CAL. ENERGY CODE, 2022 CAL. RESIDENTIAL CODE, 2022 CAL GREEN BUILDING STANDARDS CODE AND ALL OTHER REGULATIONS AS AMENDED TO DATES APPROVED BY THE COUNTY OF SANTA CLARA
- B. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. WRITTEN DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED BY CONTRACTOR. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO, AND DURING, ALL PHASES OF WORK.
- C. IF THE CONTRACTOR FINDS ANY LACK OF INFORMATION, DISCREPANCY, AND/OR OMISSIONS IN THESE DRAWINGS, OR IF THE CONTRACTOR IS UNCLEAR AS TO THE DRAWINGS' MEANING AND/OR INTENT, THE CONTRACTOR SHALL CONTACT THE ARCHITECT AT ONCE FOR INTERPRETATION AND/OR CLARIFICATION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. IF ANY SUBCONTRACTOR FINDS ANY LACK OF INFORMATION, DISCREPANCY, AND/OR OMISSIONS IN THESE DRAWINGS, OR IF ANY SUBCONTRACTOR IS UNCLEAR AS TO THE DRAWINGS' MEANING AND/OR INTENT, THAT SUBCONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR, WHO SHALL THEN CONTACT THE ARCHITECT AT ONCE FOR INTERPRETATION AND/OR CLARIFICATION BEFORE DIRECTING THE SUBCONTRACTOR TO PROCEED WITH THAT PORTION OF THE WORK.
- D. NO CHANGES, MODIFICATIONS, OR DEVIATIONS SHALL BE MADE TO AND/OR FROM THE DRAWINGS AND/OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE ARCHITECT OR THE OWNER.
- E. ALL MATERIALS USED SHALL BE EQUAL TO, OR EXCEED, ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS.
- F. THE CONTRACTOR SHALL PROMPTLY AND LEGALLY REMOVE ALL ACCUMULATED DEBRIS DAILY, SHALL PROTECT ALL EXPOSED PORTIONS OF THE WORK FROM WEATHER ELEMENTS, SHALL AVOID OVER-LOADING THE STRUCTURE WITH CONSTRUCTION MATERIALS, AND SHALL SECURELY STORE ALL ITEMS TO BE USED FOR AND IN THE CONSTRUCTION OF THE WORK.
- G. ALL GLASS IN HAZARDOUS AREAS (INCLUDING TUBS AND/OR SHOWERS). ALL GLASS WITHIN 18" OF THE FINISHED FLOOR. AND ALL GLASS WITHIN 24" OF AN OPERABLE DOOR SHALL BE SAFETY GLASS. AND SHALL BE PERMANENTLY LABELED AS SUCH. (CBC SECTION 2406.4)
- H. THE CONTRACTOR SHALL MAINTAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE, ALL EXISTING UTILITIES AND CITY SERVICES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- J. ALL ELECTRICAL CALCULATIONS AND WIRE SIZES SHALL BE PROVIDED BY A CALIFORNIA-LICENSED ELECTRICAL CONTRACTOR. RECEPTACLE, SWITCH, FIXTURE, AND EQUIPMENT LOCATIONS SHALL BE FOUND ON THE SITE PLAN AND PROPOSED FLOOR PLANS WITHIN THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION. FIXTURE TYPES. AND EQUIPMENT WITH THE OWNER PRIOR TO PURCHASE AND INSTALLATION.
- K. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- L. ANY EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED, PLUGGED, OR CAPPED AS REQUIRED BY CODE AND/OR SOUND CONSTRUCTION PRACTICES.
- M. THE CONTRACTOR SHALL PROVIDE ADEQUATE CONCEALED BLOCKING AND ANCHORING FOR ALL CEILING- AND WALL-MOUNTED EQUIPMENT, HARDWARE, FIXTURES, AND ACCESSORIES.

- UNLESS OTHERWISE NOTED, ELECTRICAL CONDUITS, PLUMBING LINES, ETC. SHALL BY RUN IN CONCEALED SPACES, AND ALL FRAMING SHALL BE ADEQUATELY SIZED TO ACCOMPLISH THIS RESULT WITHOUT CAUSING ANY DEFORMATION IN THE WALL PLANE.
- O. INTERIOR DIMENSIONS ARE SHOWN FROM CENTER OF WALL AND EXTERIOR DIMENSIONS ARE SHOWN FROM FACE OF STUD
- P. EACH BEDROOM SHALL HAVE ONE EXTERIOR EGRESS-COMPLIANT WINDOW OR DOOR THAT IS OPENABLE FROM THE BEDROOM'S INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL TOOLS, KNOWLEDGE, OR EFFORT.
- Q. ALL PRODUCTS LISTED IN THESE DRAWINGS BY ICC/NER NUMBER SHALL BE INSTALLED PER THE REPORT AND MANUFACTURER'S WRITTEN INSTRUCTIONS. PRODUCT SUBSTITUTION FOR PRODUCTS LISTED SHALL ALSO HAVE AN ICC/NER-APPROVED WRITTEN EVALUATION REPORT AND BE APPROVED AND LISTED BY OTHER NATIONALLY-RECOGNIZED TESTING AGENCIES.
- R. EXTERIOR OPENABLE WINDOWS AND DOOR SHALL BE WEATHER-STRIPPED. ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, AND/OR WEATHER-STRIPPED TO LIMIT, OR ELIMINATE, AIR LEAKAGE.
- SEE STRUCTURAL SHEETS FOR PROJECT CONSTRUCTION NOTES AND DETAILS.
- T. SEE ATTACHED TITLE 24 FORMS AND/OR CALCULATIONS FOR PROJECT ENERGY EFFICIENCY REQUIREMENTS.

FIRE DEPT REQUIREMENTS

CONSTRUCTION SITE FIRE SAFETY:

ALL CONSTRUCTION SITES MUST COMPLY WITH APPLICABLE PROVISIONS OF THE CFC CHAPTER 33 AND OUR STANDARD DETAIL AND SPECIFICATION SI-7. PROVIDE APPROPRIATE NOTATIONS AND SUBSEQUENT PLAN SUBMITTALS, AS APPROPRIATE TO THE PROJECT, CFC CH. 33.

2. WATER SUPPLY REQUIREMENTS:

POTABLE WATER SUPPLIES SHALL BE PROTECTED FROM CONTAMINATION CAUSED BY FIRE PROTECTION WATER SUPPLIES. IT IS THE RESPONSIBILITY OF THE APPLICANT AND ANY CONTRACTORS AND SUBCONTRACTORS TO CONTACT THE WATER PURVEYOR SUPPLYING THE SITE OF SUCH PROJECT, AND TO COMPLY WITH THE REQUIREMENTS OF THAT PURVEYOR. SUCH REQUIREMENTS SHALL BE INCORPORATED INTO THE DESIGN OF ANY WATER-BASED FIRE PROTECTION SYSTEMS, AND/OR FIRE SUPPRESSION WATER SUPPLY SYSTEMS OR STORAGE CONTAINERS THAT MAY BE PHYSICALLY CONNECTED IN ANY MANNER TO AN APPLIANCE CAPABLE OF CAUSING CONTAMINATION OF THE POTABLE WATER SUPPLY OF THE PURVEYOR OF RECORD. FINAL APPROVAL OF THE SYSTEM(S) UNDER CONSIDERATION WILL NOT BE GRANTED BY THIS OFFICE UNTIL COMPLIANCE WITH THE REQUIREMENTS OF THE WATER PURVEYOR OF RECORD ARE DOCUMENTED BY THAT PURVEYOR AS HAVING BEEN MET BY THE APPLICANT(S). 2016 CFC SEC. 903.3.5 AND HEALTH AND SAFETY CODE 13114.7.

3. ADDRESS IDENTIFICATION.

NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS, OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. WHERE REQUIRED BY THE FIRE CODE OFFICIAL. ADDRESS NUMBERS SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MINIMUM OF 4 INCHES (101.6 MM) HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCH (12.7 MM). WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY A MONUMENT, POLE, OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. ADDRESS NUMBERS SHALL BE MAINTAINED. CFC SEC. 505.1.

- to site is required, provided it is feasible to do so. Contact local water purveyor as soon as possible. If the water company will not grant a water connection, submit official documentation from the water company to that effect.
- c. If the water company provides domestic water, but cannot provide the required hydrant fire-flow, installation of an approved residential fire sprinkler system complying with CFMO-SP6 shall be required throughout.
- d. If fire protection water cannot be supplied from a recognized water purveyor, fire protection water supply shall be provided by on-site aboveground storage tank(s) and

42. Prior to permit issuance, submit a geotechnical engineer's Plan Review Letter that confirms the plans conform with the recommendations presented in the approved report (Langan Treadwell Rollo, dated 7-26-2016).

CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO OCCUPANCY OR ONE YEAR FROM THE DATE OF THE LAND DEVELOPMENT AGREEMENT, WHICHEVER COMES FIRST.

43. Prior to final inspection, contact Xue Ling, Assistant Planner, at least a week in advance to schedule a site visit to verify the approved exterior colors and landscaping have been installed, as approved.

Land Development Engineering

- 44. Existing and set permanent survey monuments shall be verified by inspectors prior to final acceptance of the improvements by the County. Any permanent survey monuments damaged or missing shall be reset by a licensed land surveyor or registered civil engineer authorized to practice land surveying and they shall file appropriate records pursuant to Business and Professions Code Section 8762 or 8771 of the Land Surveyors Act with the County Surveyor.
- 45. Construct all of the aforementioned improvements. Construction staking is required and shall be the responsibility of the developer.

Environmental Health

46. Prior to building final, provide proof of garbage service at the time of final occupancy signoff. Garbage service in the unincorporated areas of Santa Clara County is mandatory.

- 47. Fire Sprinkler System: An approved residential fire sprinkler system complying with CFMO-SP6 shall be installed throughout the structure (including existing residences when square
- Note: The fire sprinkler system shall be installed and finaled by this office prior to File PLN17 - 10706 Zoning Administration Meeting December 5, 2019 Continued Item #1

James Le Design Review and Grading

sprinkler plans by this office.

occupancy. A separate permit shall be obtained from this office by a state licensed C-16 contractor prior to installation. Please allow for a minimum of 30 days for plan review of fire

48. Prior to Final Inspection, submit a Construction Observations Letter that verifies the work was completed in accordance with the approved plans.

STEVE BENZING ARCHITECT

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH COM

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CONDITIONS OF APPROVAL GENERAL \$ MISC. NOTES

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

File PLN17 - 10706 James Le Design Review and Grading

Zoning Administration Meeting December 5, 2019 Continued Item #1

DATE: 1/3/23

SCALE: NOTED

DRAWN BY:SMB JOB NO. 1908

OF 15 SHTS

COUNTY OF SANTA CLARA

General Construction **Specifications**

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY LANGAN TREADWELL ROLLO AND DATED JULY 26 2016 THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS. 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE
- DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS
- ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE. DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OF OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY
- STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE
- KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY
- THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE
- COUNTY INSPECTOR. ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE
- RELATING TO THE USE OF SPARK ARRESTERS. UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (4008) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADÉ EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE
- . ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

ONSTRUCTION STAKING

- REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
- ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED 13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE LAND SURVEYOR PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR 14. TOTAL DISTURBED AREA FOR THE PROJECT 40470 SF.

LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY

- AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT
- ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING

<u>construction inspection</u>

- CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION. SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE
- COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN
- REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

ITE PREPARATION (CLEARING AND GRUBBING)

- EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE
- PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

TILITY LOCATION, TRENCHING & BACKFIL

NOTED ON THE PLANS.

- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY
- ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
- TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING CONTINUAL CONTROL OF THE COUNTY INSPECTOR. INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL

SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

GRADING

- 1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL. THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION
- EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S)
- DELINEATED ON THE PLAN. 4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- 5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	685	0	10
ACCESSORY STRUCTURE	0	0	0
POOL/HARDSCAPE	0	0	0
LANDSCAPE	0	0	0
DRIVEWAY	380	500	6
OFF SITE IMPROVEMENTS	680	170	4.5
TOTAL	1745	670	

NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE. EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP

- 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD. 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER
- 9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%
- 10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND 11. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED
 - BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY. 12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING
 - AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA. DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
 - 16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

BEFORE IT IS BROUGHT TO THE SITE.

- FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE. THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING: FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE
- THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION
- FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES. SIGNAGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE
- PROTECTION MEASURES MAY BE FOUND AT http://www.sccplanning.gov." SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY. 2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

ACCESS ROADS AND DRIVEWAYS

3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

OF THE TREE OR GROVE OF TREES

- A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF 1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES
 - ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15 LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING
 - PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS. 4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS

AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR

ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM. ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT — I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC..

1. PACIFIC GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

- 1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE
- NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION AFTERCONSTRUCTION.

OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

PORTLAND CEMENT CONCRETE

 CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD. PAVE. APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL

STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING

- AREAS AT CONSTRUCTION SITES. 4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY
- POWDER SWEEPING IS PROHIBITED 5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER
- SWEEPING IS PROHIBITED. 6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR
- PROPER OPERATION OF THE VEHICLE. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
- 8. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.
- POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED. A. 15 MILES PER HOUR (MPH) SPEED LIMIT
- 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367.
- 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING. 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE
- 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8. 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF
- SHALL BE RELEASED TO SHEET FLOW. 14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE. 16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE
- COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR. 17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT, CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE
- A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS. PREVENTION OF TRACKING OF MUD. DIRT. AND CONSTR MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY. 18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS. SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE
- SANTA CLARA COUNTY ROAD RIGHT-OF-WAY. 19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.

STORM DRAINAGE AND STORMWATER MANAGEMENT

- 1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES
- PERMIT CAS000004/ ORDER NO. 2013-0001-DWQ. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER
- OR AS SHOWN ON THE PLANS. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.
- 4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AS-BUILT PLANS STATEMENT

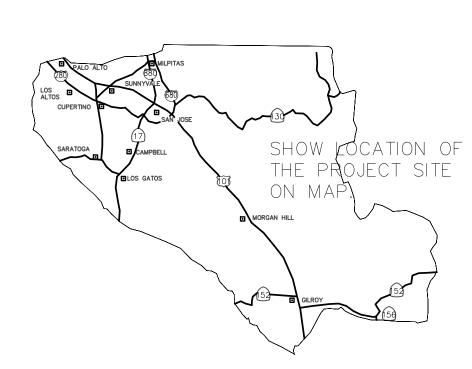
THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (___ WERE) (___ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (^). THERE (___WERE) WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL A.

SIGNATURE

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPYOF

GEOTECHNICAL ENGINEER OBSERVATION

A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.



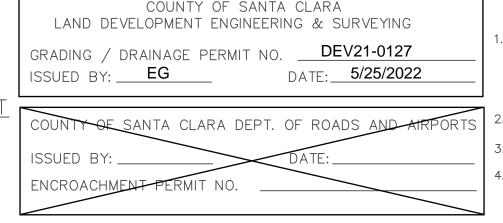
COUNTY LOCATION

MAP



<u>SURVEY MONUMENT</u> PRESERVATION

- 1. THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
- 2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE. STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
- 3. THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING ION ACTIVITIES THAT WILL OR MAY DISTURB AN EXIST MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) IN THE SURFACE OF THE NEW CONSTRUCTION OR SET A WITNESS MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COÙLD BE DESTROYED, DAMAGED, COVERED. DISTURBED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.



NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHUOT AN ENCROACHEMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

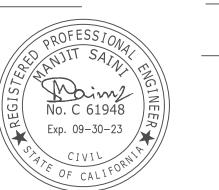
COUNTY ENGINEER'S NOTE

June 7, 2022

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED 12/05/2019 FILE(S) NO. PLN17-10706

DATE <u>05-24-2022</u> SIGNATURE



INSPECTION

R.C.E. NO. 09/30/23 EXPIRATION DATE

61948

_Date: _05/25/2022 HARD COPY OF THESE STAMPED PLANS MUST BE ON THE SITE FOR INSPECTIONS

COUNTY OF SANTA CLARA

PLANS APPROVED FOR PERMIT

LAND DEVELOPMENT ENGINEERING OFFICE

DEV21-0127

5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE

COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE

REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA

IN A VISUALLY PROMINENT LOCATION

ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERM

63958 9/30/22 R.C.E. NO. EXPIRATION DATE

GRADING PLANS [APN 654-64-012] JAMES LE RESIDENTIAL DEVELOPMENT BELLA MADEIRA LANE SAN JOSE, SANTA CLARA COUNTY

LEGEND

DESCRIPTION	TO BE CONST.	<u>EXISTING</u>
PROPERTY LINE	₽	£
LIMITS OF WORK OR BOUNDARY		
CURB AND GUTTER		
SIDEWALK	4 4 4 4	
CITY SURVEY MONUMENT		SCOPE OF WORK
SEPTIC TIGHT-LINE		 THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE
SEPTIC TANK	•	ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF
STORM SEWER	SD	THE EROSION CONTROL PLANS TO PREVENT ILLICIT DISCHARGES FROM THE SITE DURING CONSTRUCTION.
STORM DRAIN MANHOLE		2. THE PROJECT IS A NEW RESIDENTIAL DEVELOPMENT, DOUBLE
DRAINAGE INLET AT CURB		STORY WITH BASEMENT GARAGE AND MEDIA ROOM. 3. APPROXIMATE SQUARE FOOTAGE=2,400 SQ.FT (REFER FLOOR
ELECTROLIER		PLAN DRAWING), AND APPROXIMATELY 1,000 SQ FT BASEMENT AREA.
EDGE OF PAVEMENT	//////	4. THE PROJECT REQUIRES:
PACING CONFORM OR OVERLAY TO FORM SMOOTH AC TRANSITION		II. CONSTRUCTION OD RETAINING WALLS. III. CONSTRUCTION OF CONCRETE BLOCK WALLS. IV. CONSTRUCTION OF SEPTIC TANK AND LEACH FIELDS
CATCH BASIN		SHEET INDEX

SHILL HINDLY

				<u> </u>
		S.NO		CIVIL PLANS
		1	G-00	COVER SHEET AND GENERAL NOTES
		2	G-01	EXISTING SITE CONDITIONS
		3	G-02	TOPOGRAPHIC SURVEY
TE, ING: D	S DRIP LINE	4	G-03	RECORD OF SURVEY
D	TENSION BAR (OPT) CHAIN SEE SIGNAGE	5	C-1.0	SITE GRADING KEY PLAN
	LINK DETAIL	6	C-1.1	FIRE TRUCK TURNAROUND AND FIRE HYDRANT LOCATION PLAN
VIL ER	WARNING	7	C-2.0	GRADING AND DRAINAGE PLAN (1 OF 2)
EK.	PIPE 2" 0.C. —	8	C-2.1	GRADING AND DRAINAGE PLAN (2 OF 2)
OF		9	C-3.0	DRIVEWAY GRADING PLAN AND PROFILE
)R (10	C-4.0	BUILDING LAYOUT & UTILITIES LOCATION
WIT THE		11	C-5.0	HOUSE PAD SECTION
		12	C-6.0	SECTIONS
	EXISTING TREE PROTECTION DETAILS	13	C-7.0	DRIVEWAY CROSS SECTIONS & APPROACH PLAN & PROFILE
	PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN	14	D-1	GRADING DETAIL
(AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION	15	D-2	DETAILS
	SHALL BE INCORPORATED INTO THE GRADING PLANS. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL	16	ESC-1	EROSION CONTROL PLAN
((CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY). FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO	17	BMP-1	EROSION CONTROL DETAIL-1
٠.	THE GROUND AND SPACED NOT MORE THAN 10 FEET APART. TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE	18	BMP-2	EROSION CONTROL DETAIL-2
1	CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL	19	TPZ-1	TREE LOCATION PLAN
	33.13.113.1311 110 111111111111111111111			

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.

FIRE SPRINKLERS WILL BE A DEFERRED SUBMITTAL

_		
	ENGINEER'S	NAME: MANJIT SAINI
	ADDRESS:	871 CAPE YORK PL. SANJOSE, CA
		95133
	PHONE NO.	408-313-5400

Sheet

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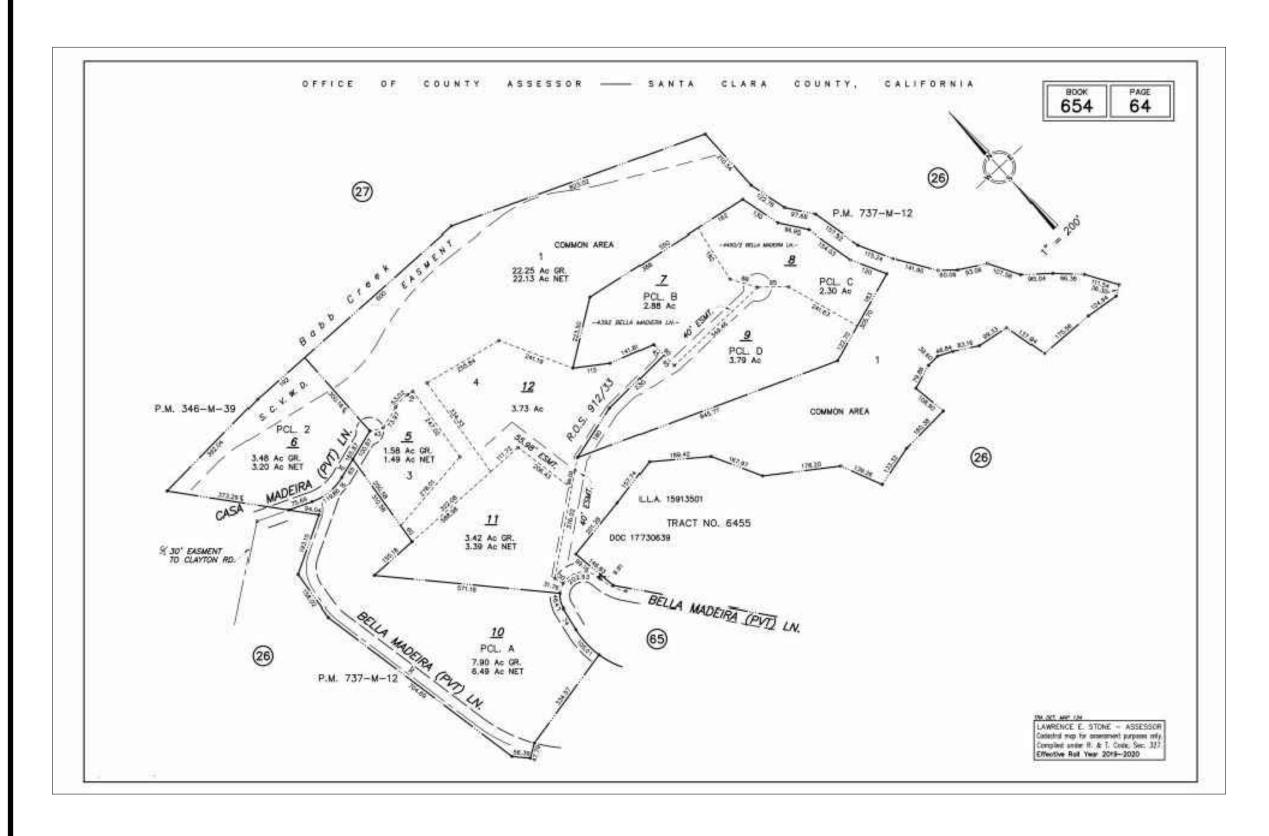
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06/08/2021 | API 12/21/2021

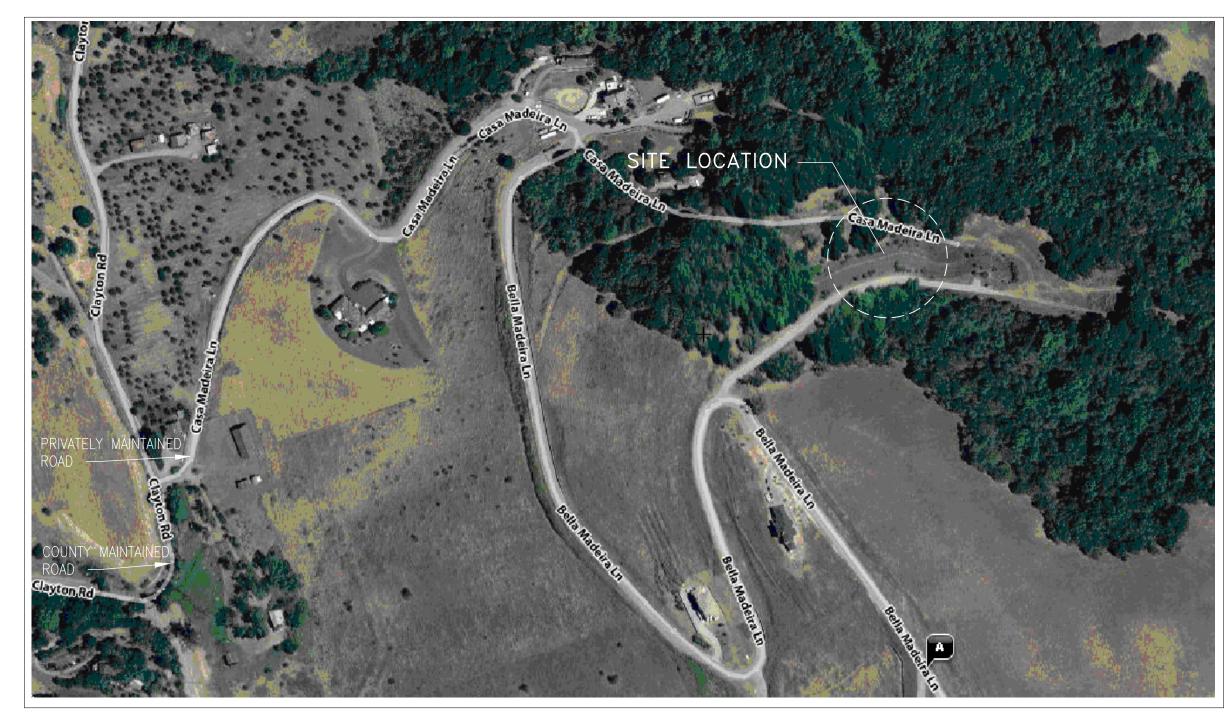
Revision 3 03/01/2022

ROAD: BELLA MADEIRA LN COUNTY FILE NO.: DEV21-0127 APPLICANT: JAMES LE

LEGAL ACCESS AND UTILITY EASEMENT FROM CLAYTON ROAD PARCEL MAP. (BOOK NO. 469 O.R. PAGE NO. 150)



AERIAL MAP SHOWING ACCESS TO SITE



NOTE:

FROM CLAYTON ROAD (COUNTY MAINTAINED ROAD) ACCESS TO THIS SITE IS VIA CASA MADEIRA LANE (PRIVATELY MAINTAINED ROAD) THEN TO BELLA MADEIRA LANE (PRIVATELY MAINTAINED ROAD) AS SHOWN ABOVE. SEE LEGAL ACCESS PARCEL MAP.

PROJECT NOTES

- 1. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- 2. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND WHICH ARE SHOWN TO BE REMOVED. ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- 3. PRIOR TO GRADING COMPLETION AND RELEASE OF BOND, ALL GRADED AREAS SHALL BE RESSEDED IN CONFIRMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THIS PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST OF THE COUNTY) TO PUBLIC MAINTENANCE ROADS STANDARDS APROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
- 5. THE WATER AND SANITARY UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- 6. THE OWNER AND THE PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.

GENERAL SITE CONDITIONS

- 1. THE DEVELOPMENT IS ON SLOPED GROUND.
- 2. GEOLOGICAL AND GEOTECHNICAL INVESTIGATION ASSESSMENT FOR SITE HAS BEEN COMPLETED, AND SUBMITTED TO COUNTY

SITE DRAINAGE AND STORM WATER MANAGEMENT

- 1. SITE DRAINAGE PATTERN SHALL BE MAINTAINED TO EXISTING CONDITIONS AS MUCH AS PRACTICAL.
- 2. THE RUNOFF FROM THE DEVELOPED AREA SHALL MATCH THE EXISTING CONDITIONS
 RUNOFF FOR A 2-YEAR 24 HOUR EVENT. STORAGE SHALL BE PROVIDED TO MAINTAIN
 THE PEAK FLOW TO PRE-DEVELOPMENT CONDITIONS.

TREE SURVEY AND REMOVA

- 1. A DETAILED ARBORIST REPORT PREPARED FOR THE TREES TO BE REMOVED BY THIS DEVELOPMENT.
- 2. THE TREES NOT TO BE REMOVED SHALL BE PROTECTED IN ACCORDANCE WITH COUNTY REQUIREMENTS.

TOPOGRAPHIC SURVEY

TOPOGRAPHIC SURVEY FOR THE SITE WAS COMPLETED BY WILSON SURVEY. REFER SHEET $G\!-\!02$

COUNTY OF SANTA CLARA
LAND DEVELOPMENT ENGINEERING OFFICE
PLANS APPROVED FOR PERMIT

RECORD NO.: DEV21-0127

BY: EG Date: 05/25/2022

HARD COPY OF THESE STAMPED PLANS MUST BE ON THE SITE FOR INSPECTIONS

GEOTECHNICAL NOTES:

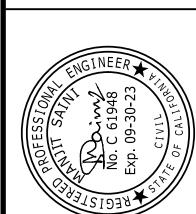
- 1. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING AND GEOTECHNICAL WORK TO COORDINATE WORK IN THE FIELD.
- 2. ALL MATERIALS FOR FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. BEFORE IT IS BROUGHT TO THE SITE.
- 3. ALL AGGREGATE BASE AND ENGINEERED FILL THAT WILL SUPPORT STRUCTURES OR OTHER SITE IMPROVEMENTS IS TO BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557—10 TEST METHOD.
- 4. UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
- 5. IN ALL PAVEMENT AREAS, THE UPPER 12 INCHES OF ALL TRENCH BACKFILL MUST BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR

CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL

CONDITIONS AND PERMIT NUMBERING.

JAMES LE ELLA MADEIRA LANE SAN JOSE, CA APN: 654-64-012



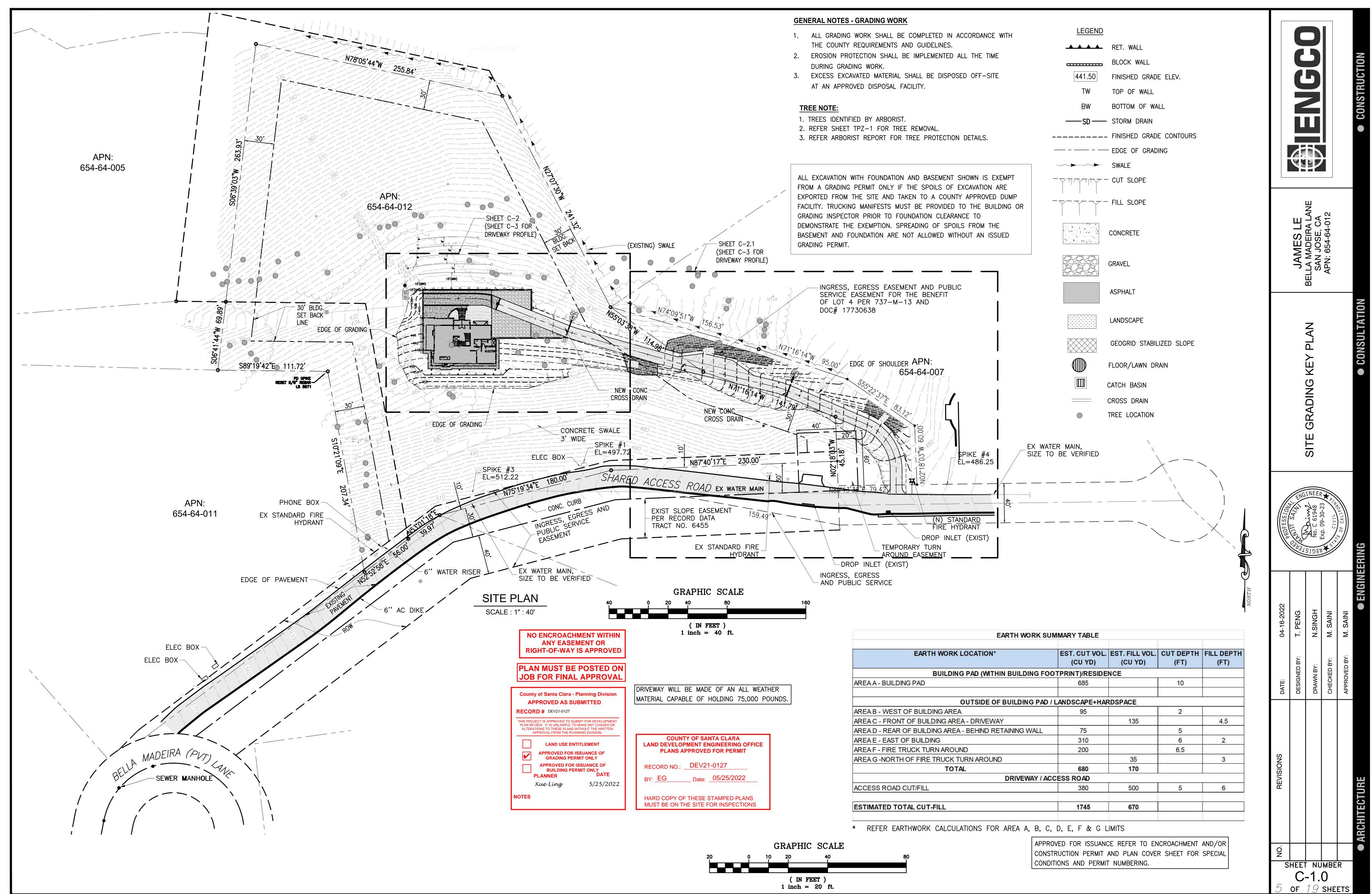
CHECKED BY: M. SAINI
APPROVED BY: M. SAINI
APPROVED BY: M. SAINI

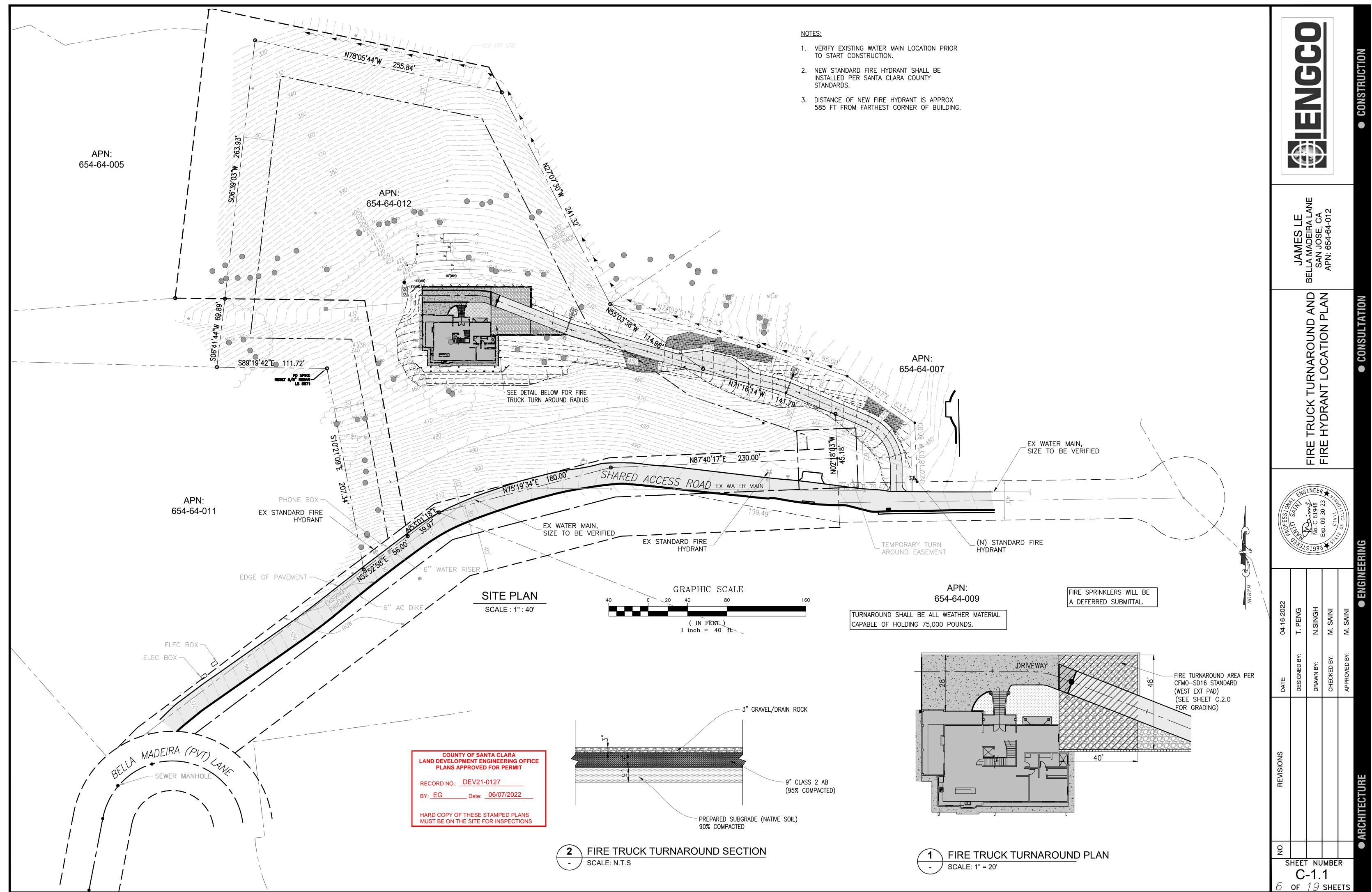
SHEET NUMBER

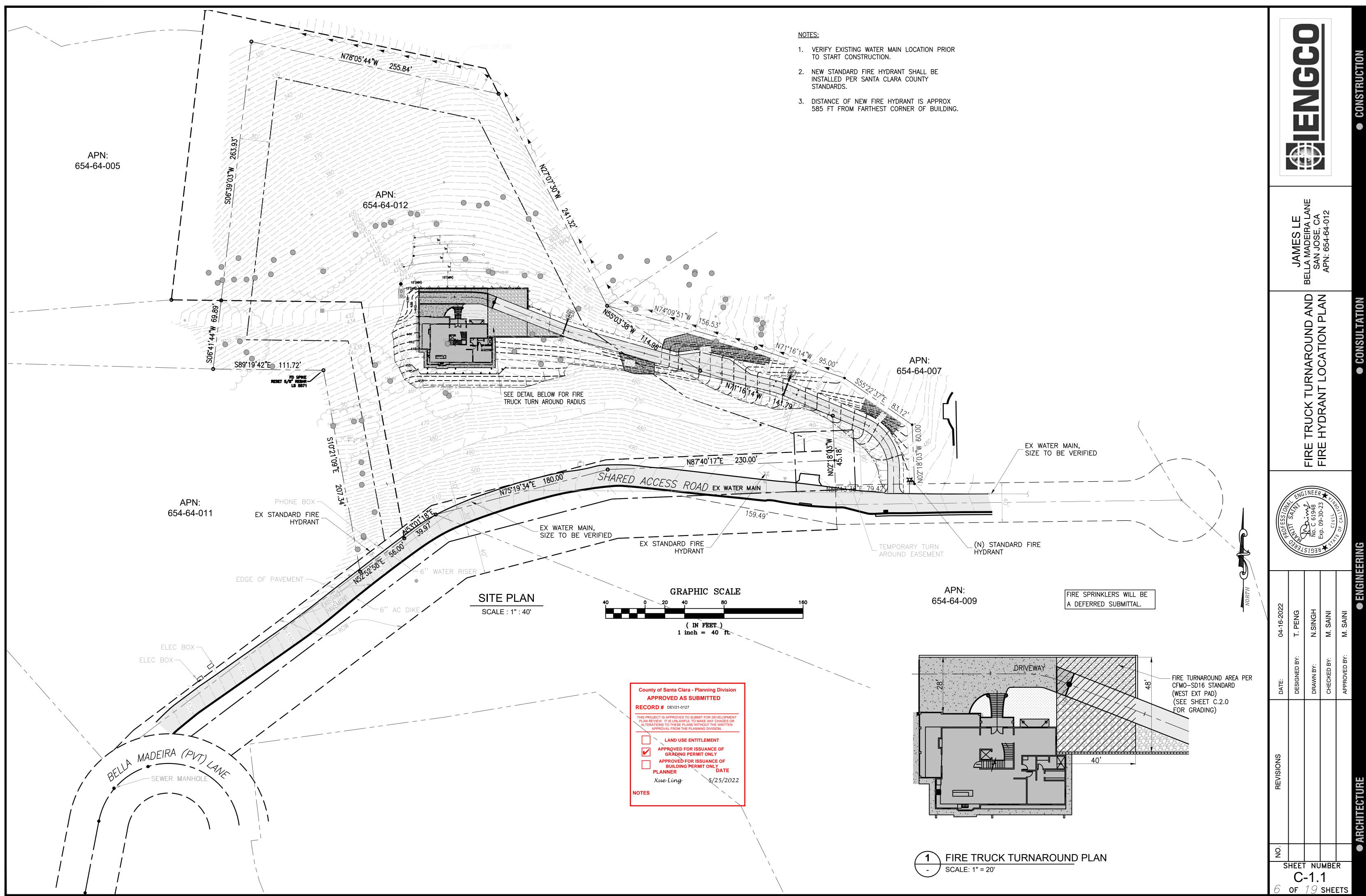
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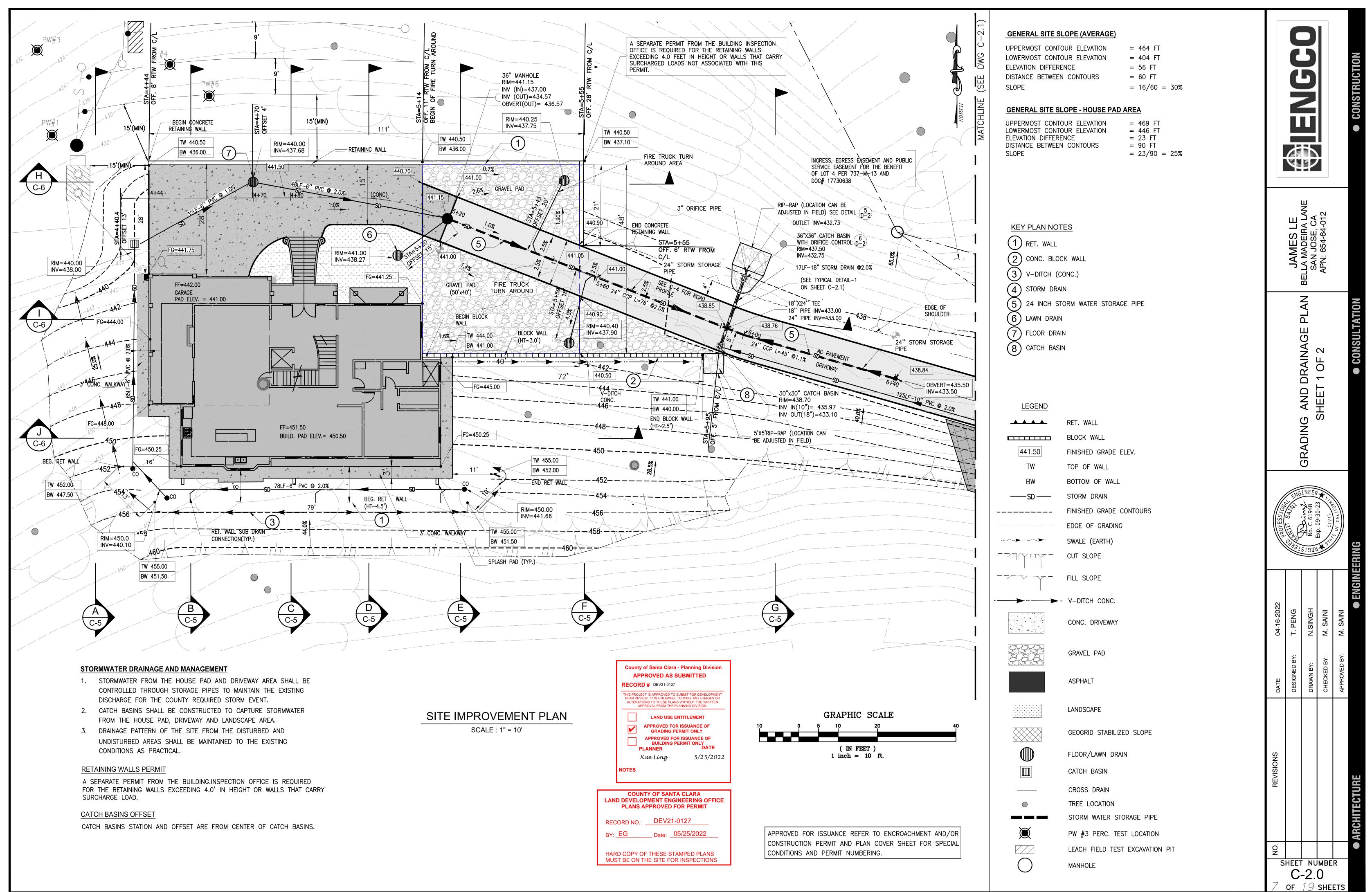
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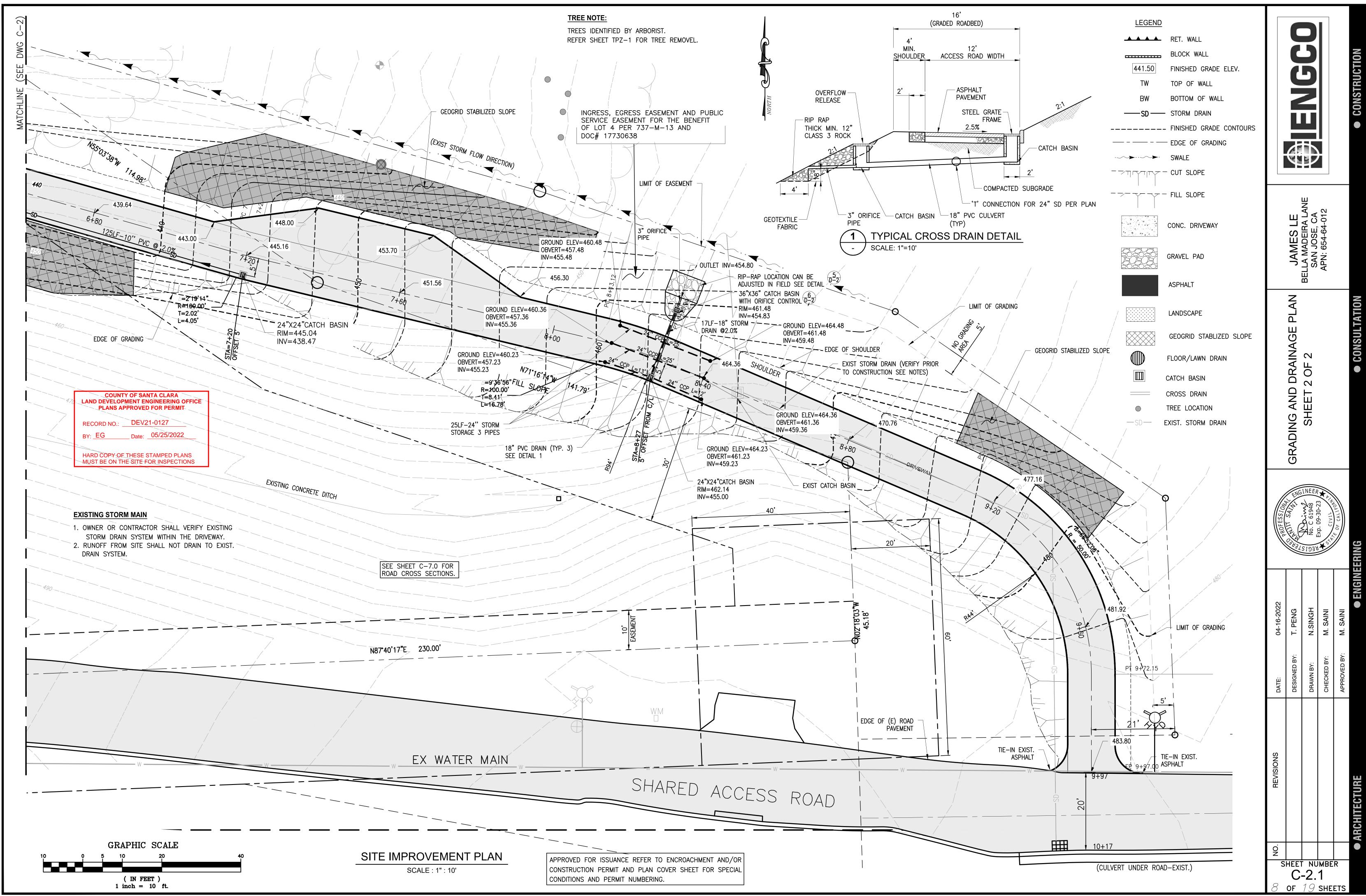
APPLICANT: JAMES LE ROAD: BELLA MADEIRA LN COUNTY FILE NO.: DEV21-0127

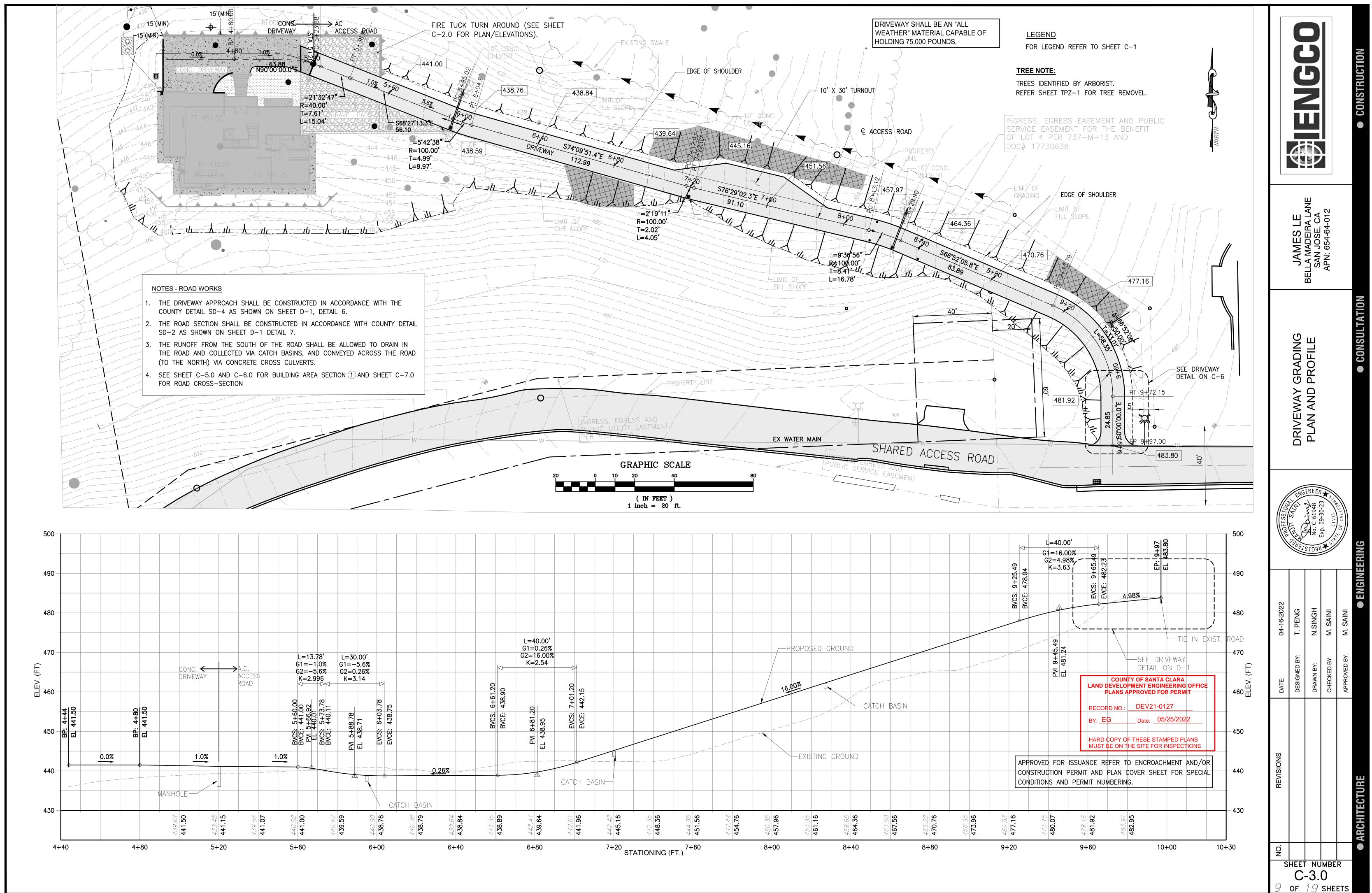


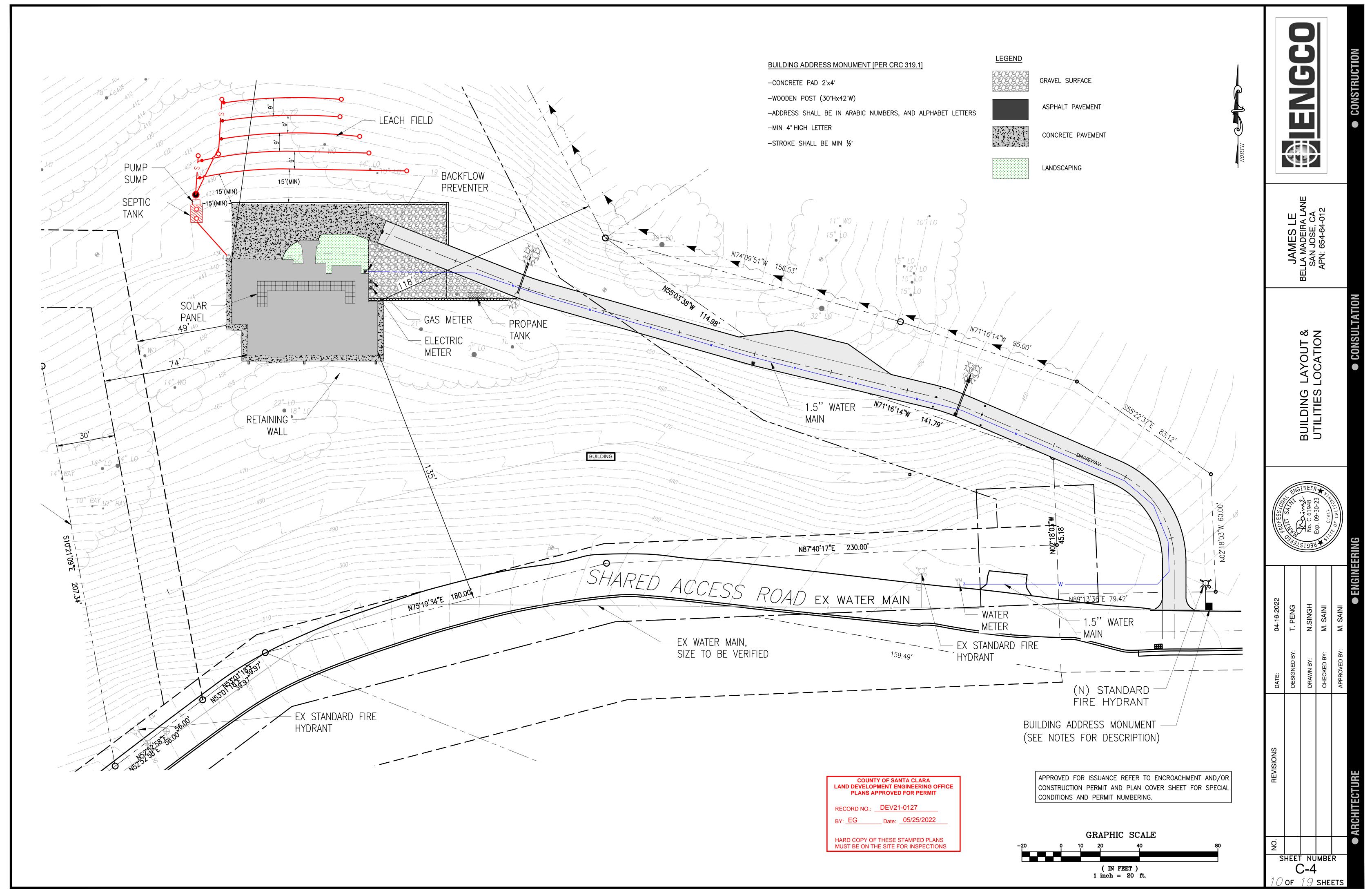


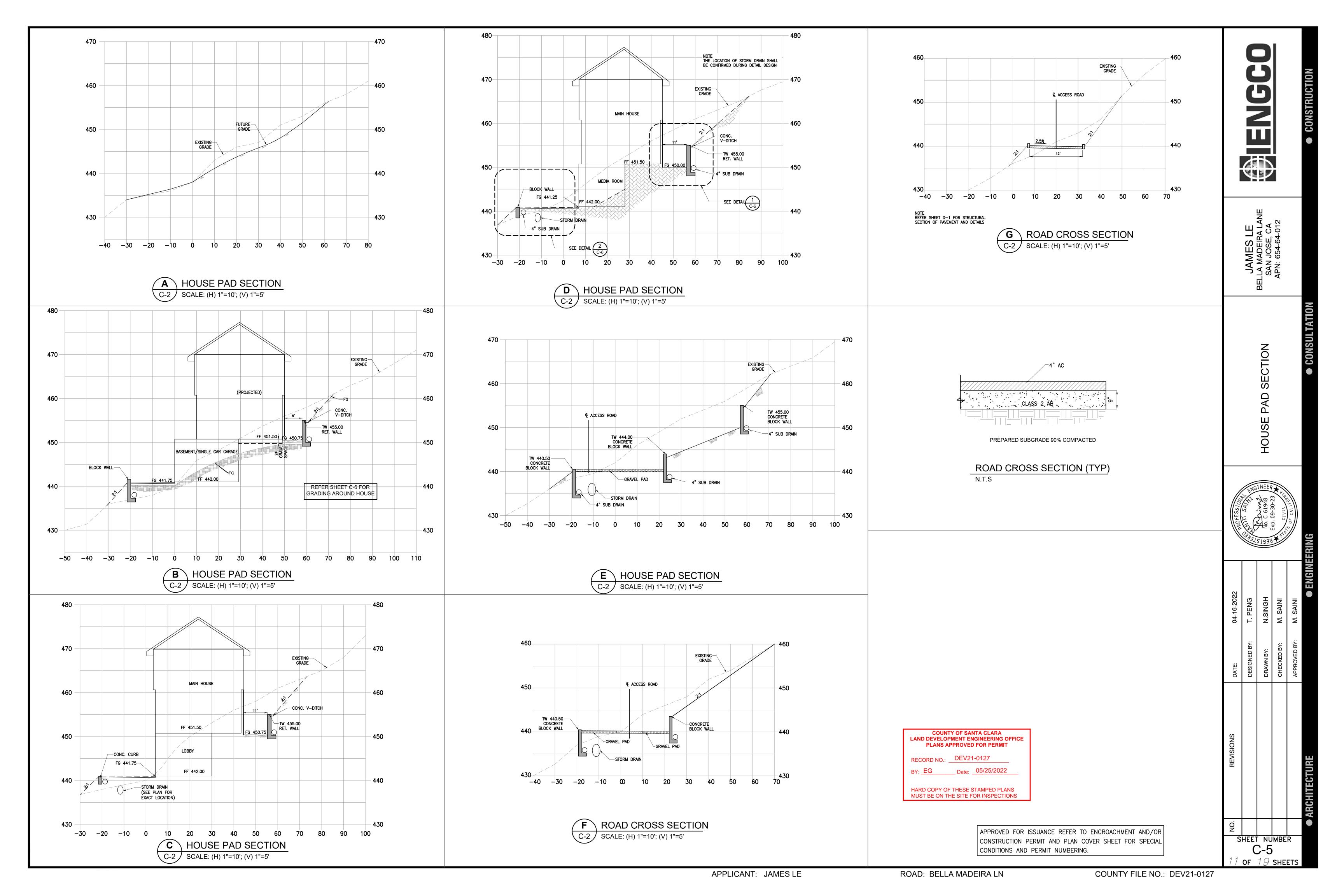


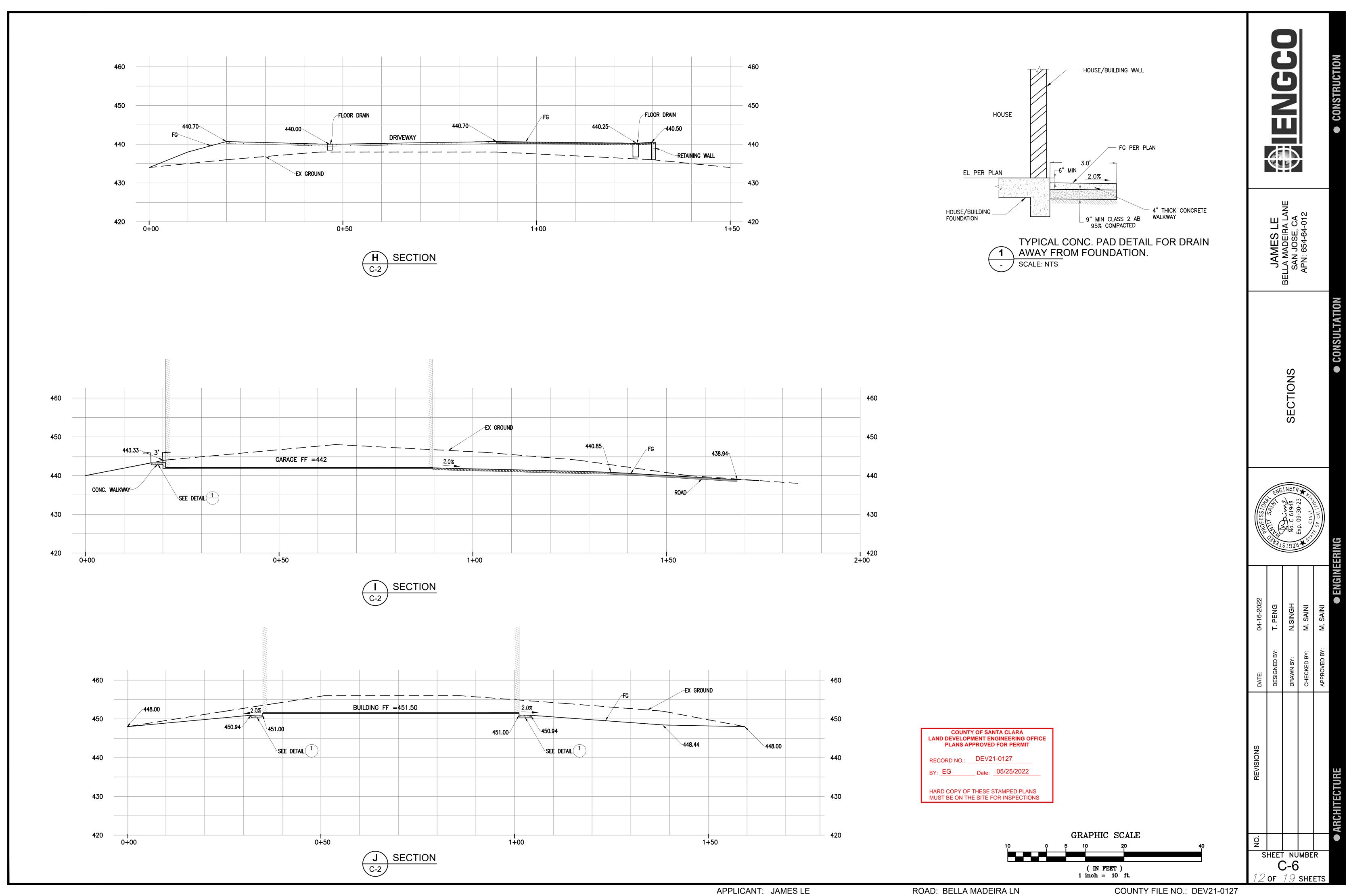


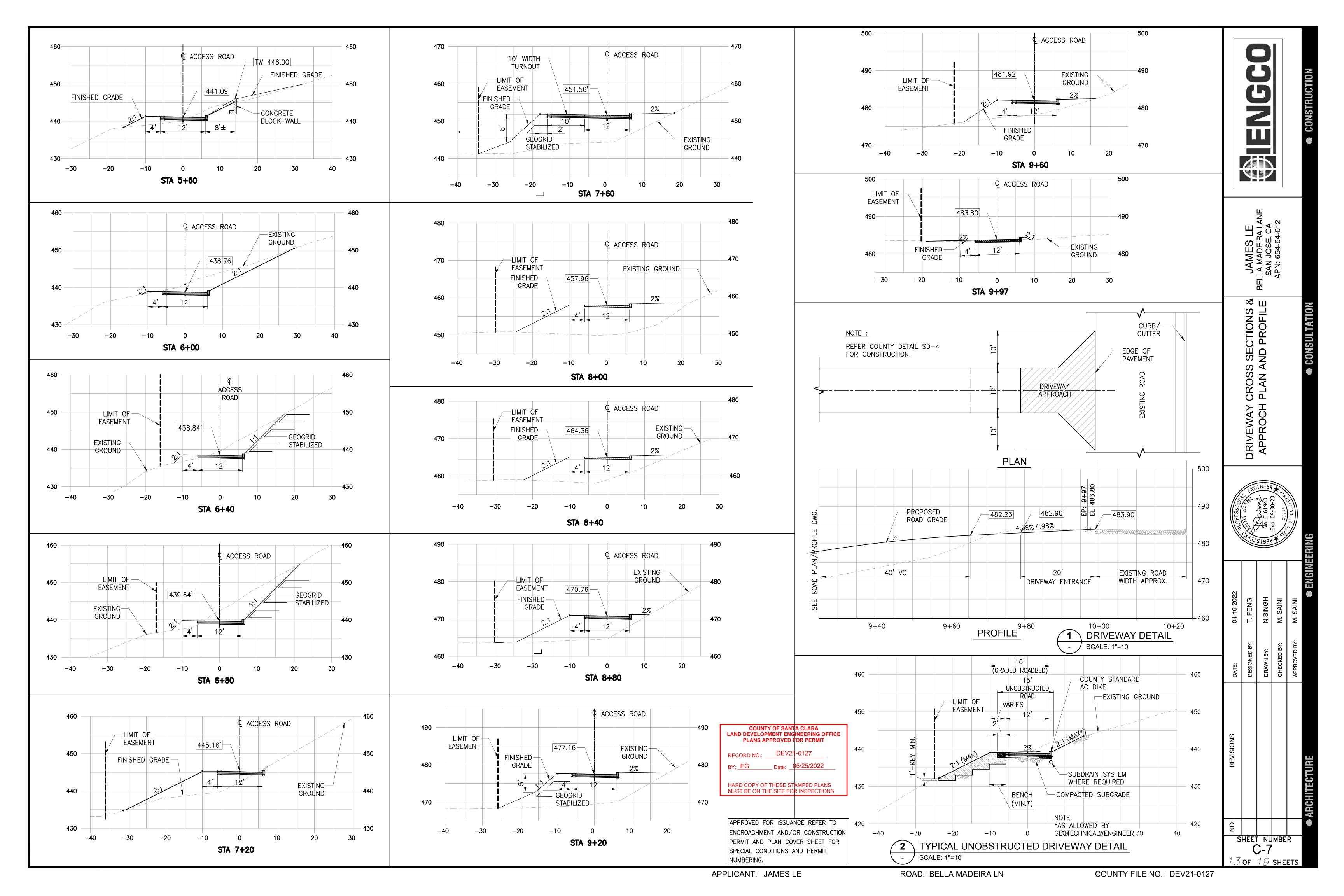


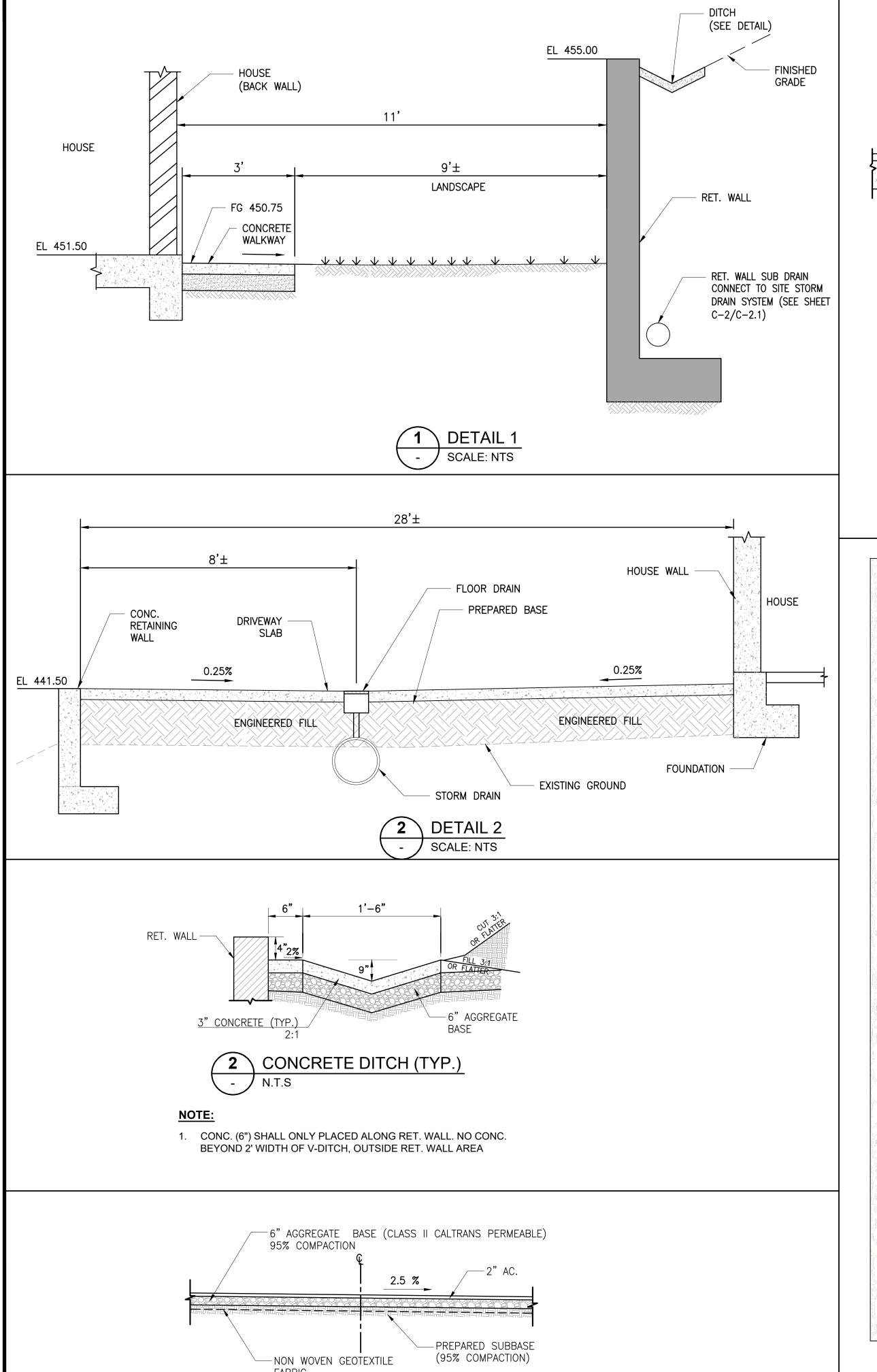






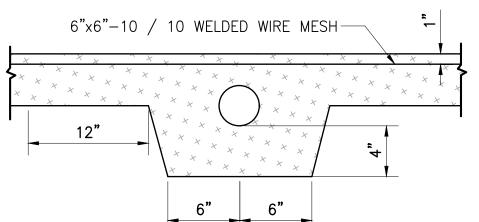






DRIVEWAY CROSS SECTION (TYP.)

N.T.S



UNDER DRIVEWAY DRAIN (TYP.)

- 1. SEE DETAIL 7 FOR DRIVEWAY UNDERDRAIN
- 2. SLOPE DRIVEWAY TOWARD CATCH BASIN.

LAND DEVELOPMENT ENGINEERING OFFICE **PLANS APPROVED FOR PERMIT** RECORD NO.: DEV21-0127

__ Date: 05/25/2022

HARD COPY OF THESE STAMPED PLANS MUST BE ON THE SITE FOR INSPECTIONS

CONSTRUCTION. - VERTICAL EXCAVATION SEE NOTES GEOTEXTILE COMPACTED FILTER FABRIC ENGINEERED FILL DRAIN ROCK COLLECTOR DRAIN (FREE OF FINES) (¾" DIAMETER) MIN 2% SLOPE 4" DIAMETER RIGID HEAVY DUTY BENCH WIDTH 8' MIN PERFORATED DRAIN PIPE (EXCAVATED ENTIRELY INTO (2% MIN GRADE) SUPPORTIVE MATERIAL) (NO FLEX-PIPE) BENCH DETAIL (TYP.)

(TO BE DESIGNED)

RECOMMENDATIONS.

1. SLOPE CAN BE VERTICALLY EXCAVATED IF CONSTRUCTION IS IN DRY WEATHER.

3. COMPACTED ENGINEERED FILL WILL BE IN

ACCORDANCE WITH THE GEOTECHNICAL

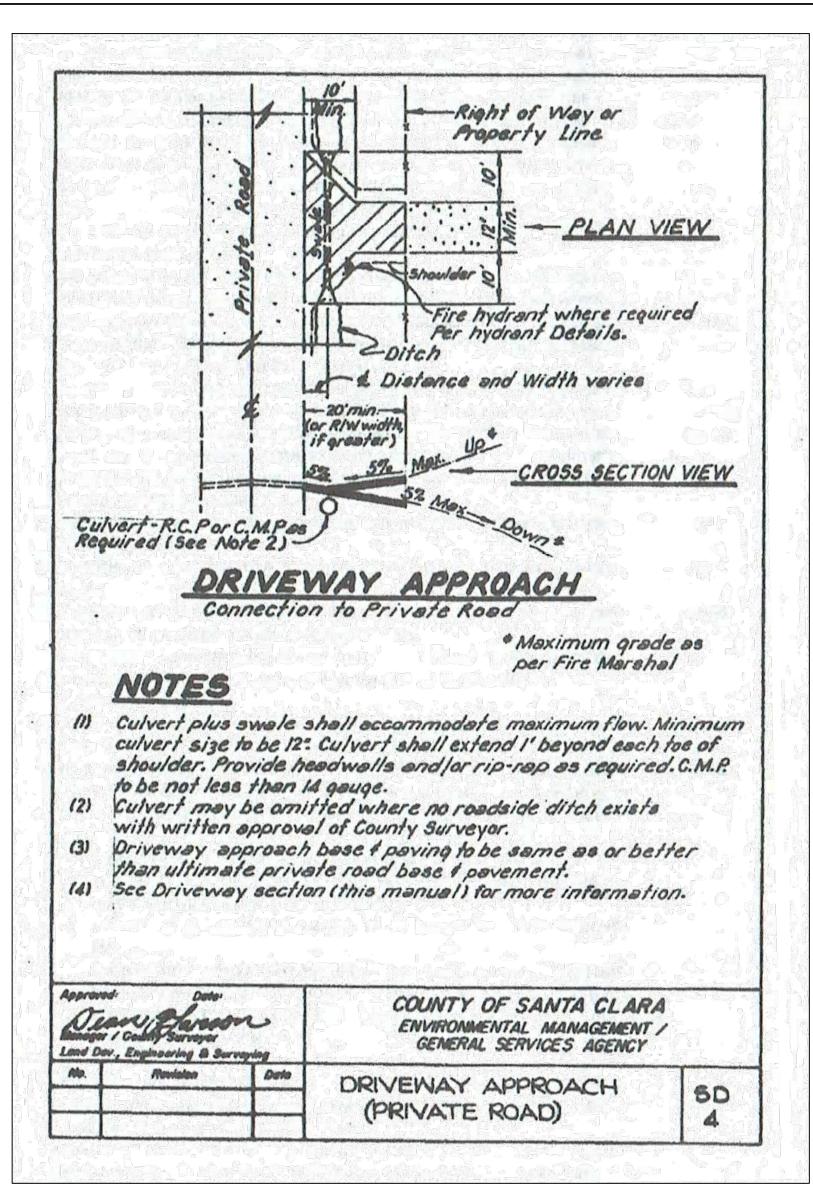
THE GEOTECHNICAL ENGINNER DURING

2. THE PERFORATED DRAIN WILL BE SLOPED TO ONE

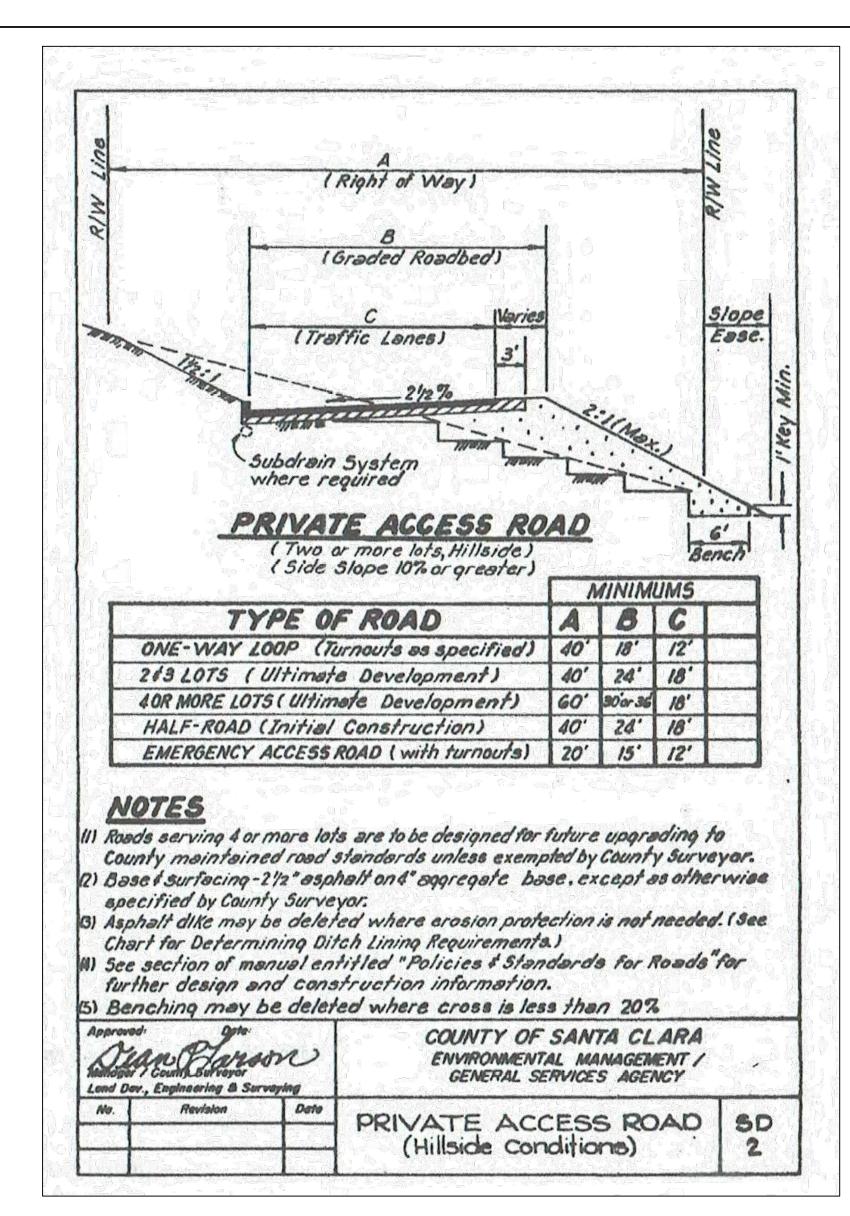
SIDE AND DRAINED INTO A COLLECTOR DRAIN.

4. THE NEED FOR SUB-DRAINS WILL BE EVALUATED BY

NOTES:



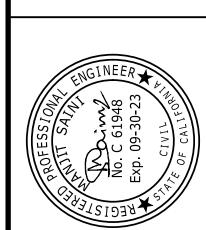




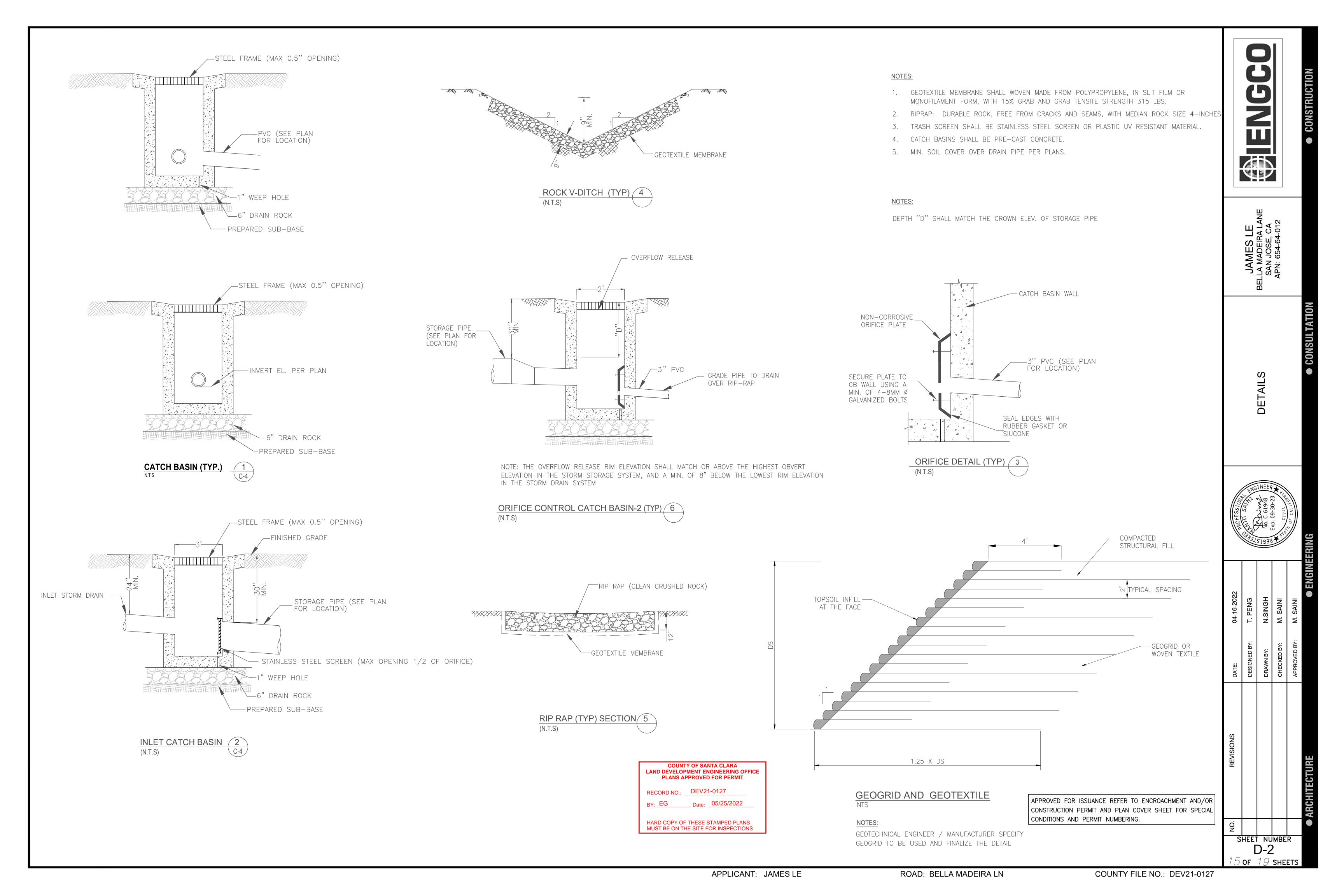
PRIVATE ACCESS ROAD

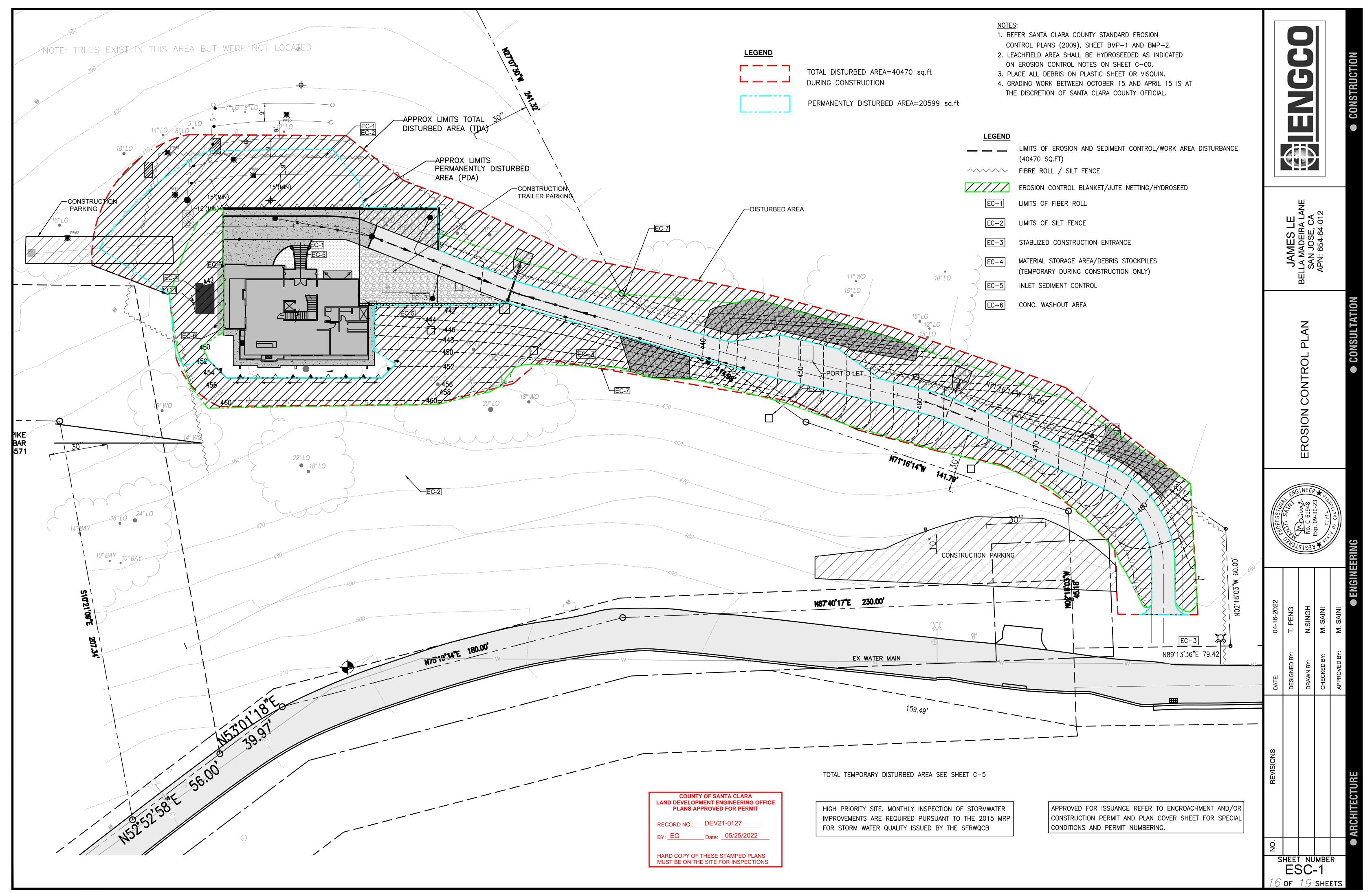
APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.

W



SHEET NUMBER $14 \, \mathrm{or} \, 19 \, \mathrm{sheets}$

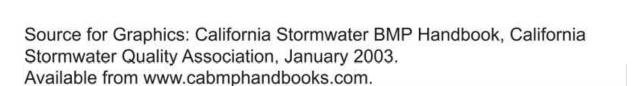


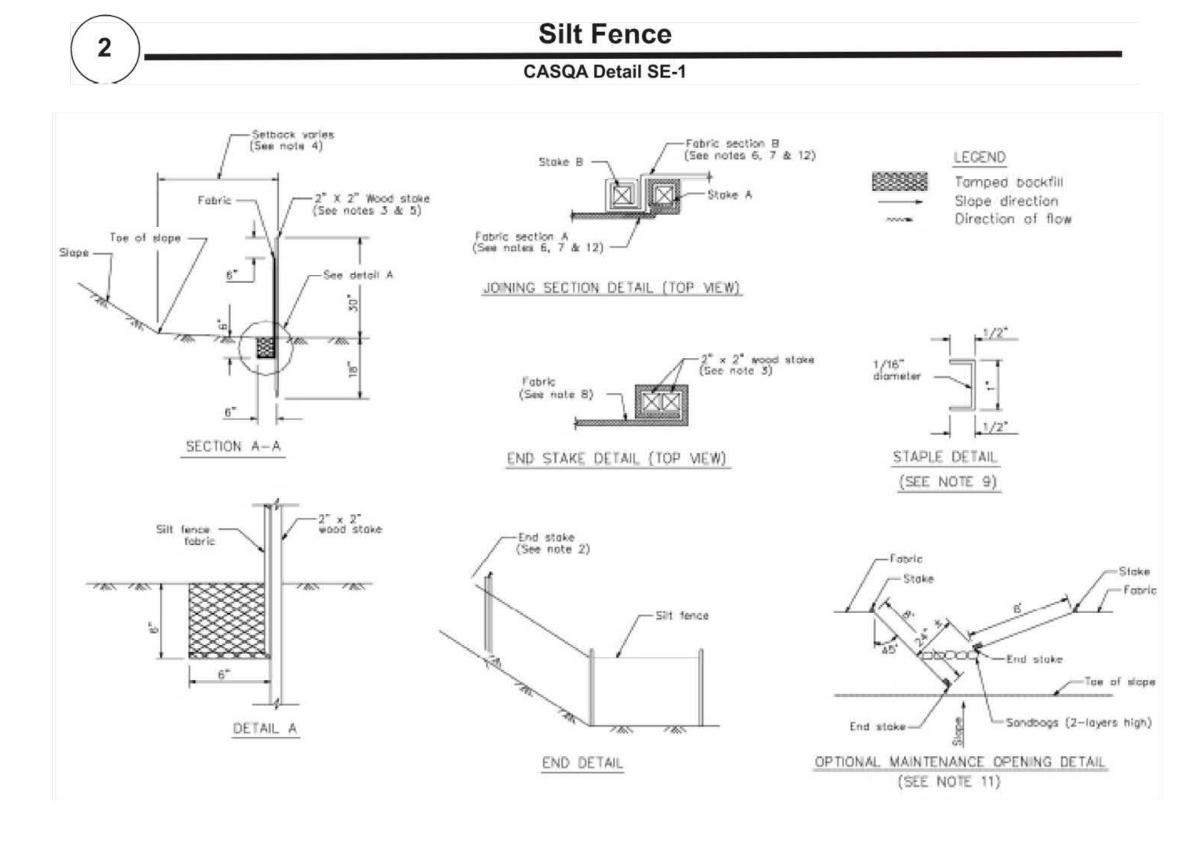


Grade

Silt Fence CASQA Detail SE-1 LECEND Tomped backfill Max reach = 500" (See note 1) Slope direction Direction of flow Optional maintenance opening detail Cross borrier (See note 10) PLAN SILT FENCE NOTES Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier, in no case shall the reach length exceed 500' 2. The lost 8'-0" of fence shall be turned up slope. Stake dimensions are naminal. 4. Dimension may very to fit field condition. 5. Stokes shall be spaced at B'-0" maximum and shall be positioned on downstream side of fence. CROSS BARRIER DETAIL Stakes to overlap and fence fabric to fold around each stake. one full turn. Secure fabric to stake with 4 staples. 7. Stakes shall be driven tightly together to prevent potential flow-through of sediment at joint. The tops of the stakes shall be secured with wire. 8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 stoples. 9. Minimum 4 staples per stake. Dimensions shown are typical. 10. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier. 11. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence. Joining sections shall not be placed at sump locations. SECTION C-C 13. Sandbag rows and layers shall be offset to eliminate gaps.

Velocity Dissipation Devices CASQA Detail EC-10 4do (min) Pipe outlet to well defined channel PLAN VIEW _Key in 6"-9" recommended for entire perimeter SECTION A-A * Length per ABAG Design Standards





APPROVED FOR ISSUANCE WORK

STANDARD BEST MANAGEMENT PRACTICE NOTES

- 1. Solid and Demolition Waste Management: Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or
- 2. <u>Hazardous Waste Management</u>: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- 3. Spill Prevention and Control: Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- 4. Vehicle and Construction Equipment Service and Storage: An area shall be designated for the maintenance, where onsite maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or
- 5. <u>Material Delivery, Handling and Storage</u>: In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- 6. Handling and Disposal of Concrete and Cement: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- 7. Pavement Construction Management: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- 8. Contaminated Soil and Water Management: Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or
- Sanitary/Septic Water Management: Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- 0.<u>Inspection & Maintenance</u>: Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

STANDARD EROSION CONTROL NOTES

1. Sediment Control Management:

<u>Tracking Prevention & Clean Up</u>: Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.

Storm Drain Inlet and Catch Basin Inlet Protection: All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber roles or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.

Storm Water Runoff: No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.

<u>Dust Control</u>: The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

Stockpiling: Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures(tarps, straw bales, silt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.

- 2. Erosion Control: During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- 3. <u>Inspection & Maintenance</u>: Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- 4. <u>Project Completion</u>: Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- 5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the crosion control plan.
- 6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.

Best Management Practices and Erosion Control Details Sheet 1 County of Santa Clara



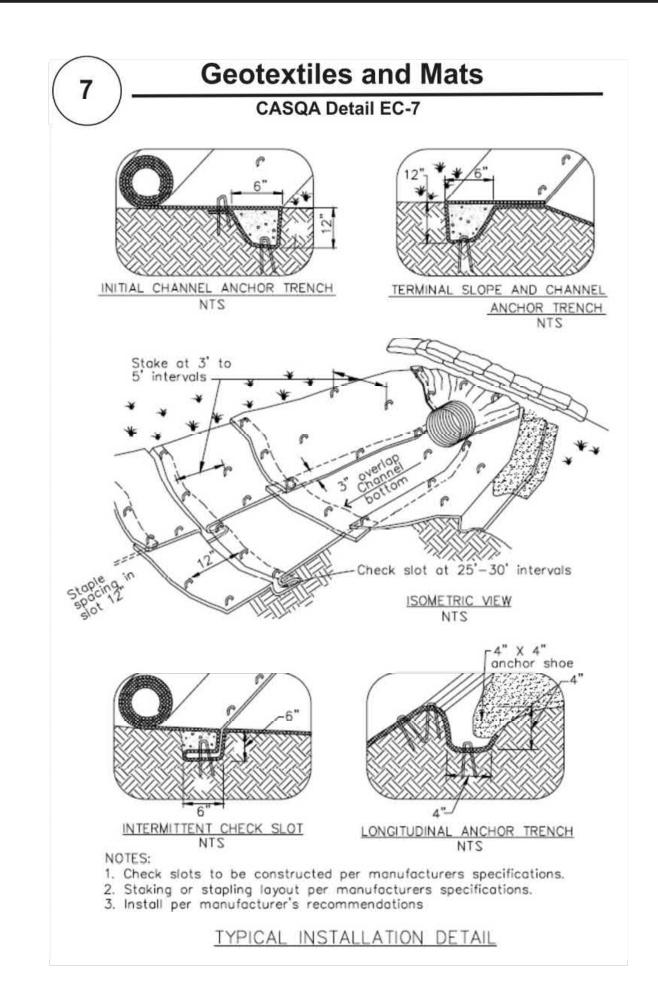
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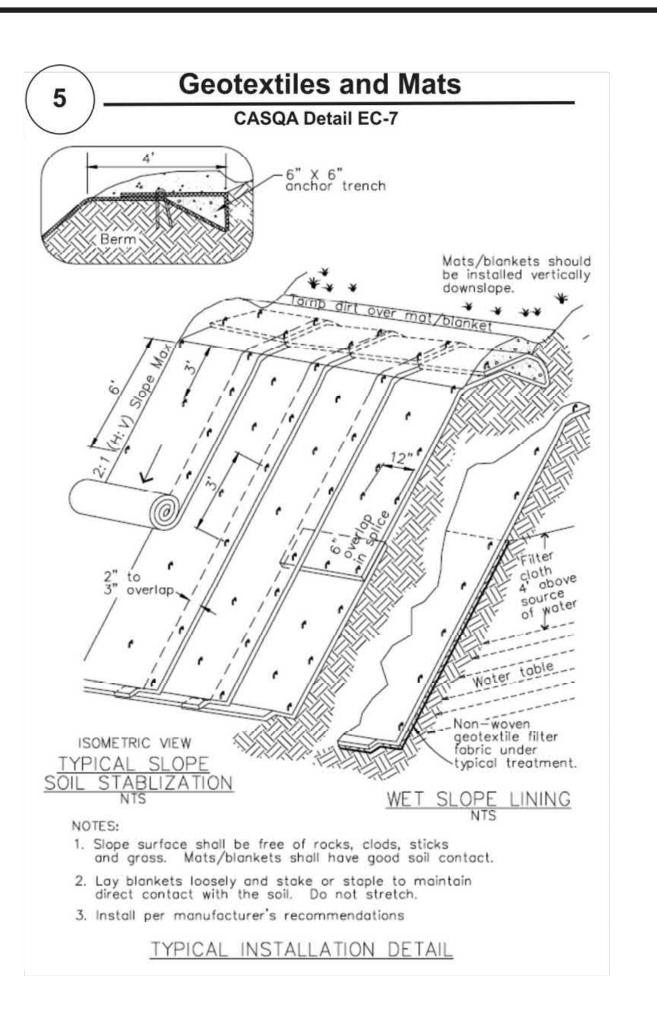
APPLICANT: JAMES LE ROAD: BELLA MADEIRA LN COUNTY FILE NO.: DEV21-0127

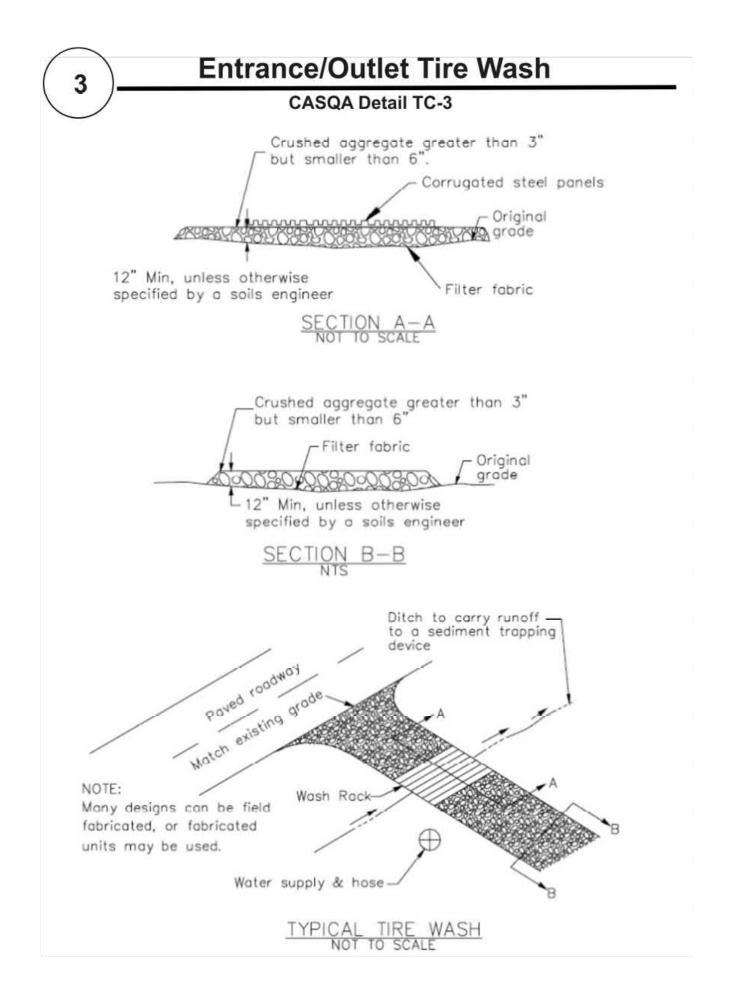
EROSION

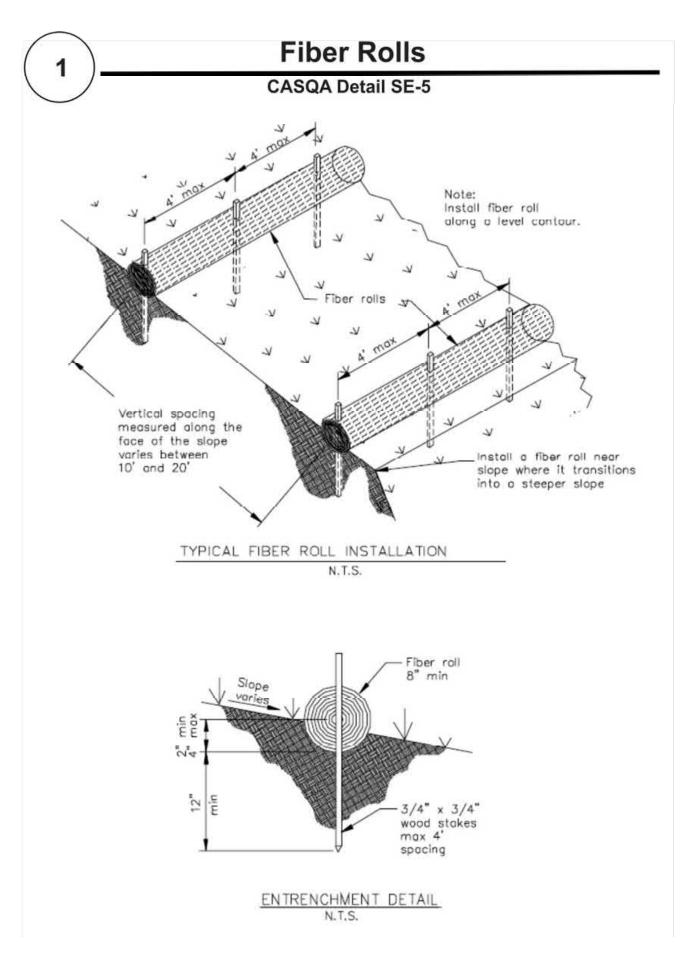
Information

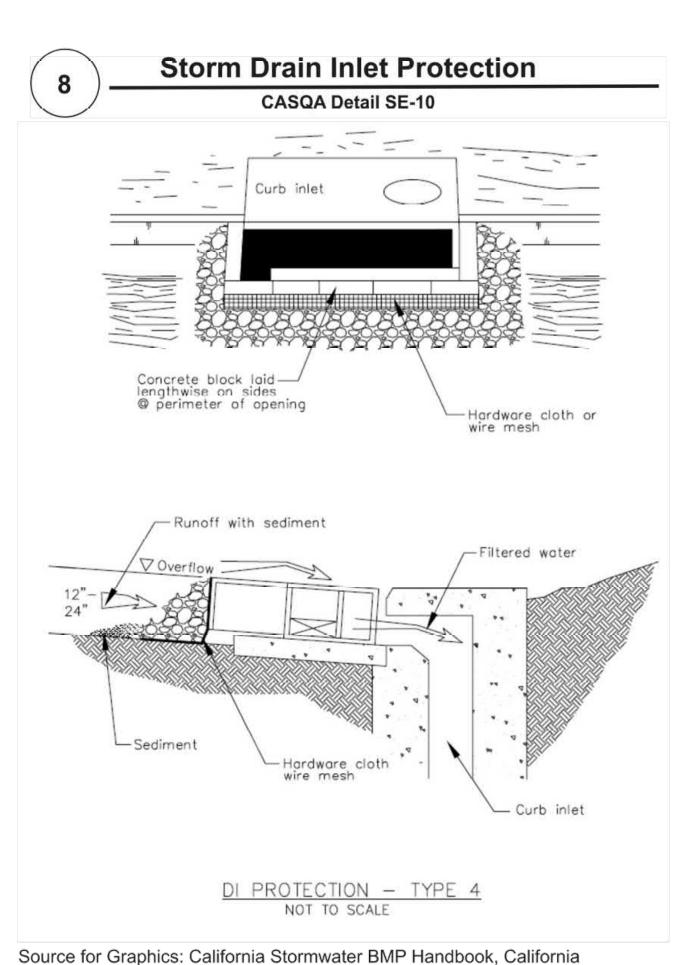
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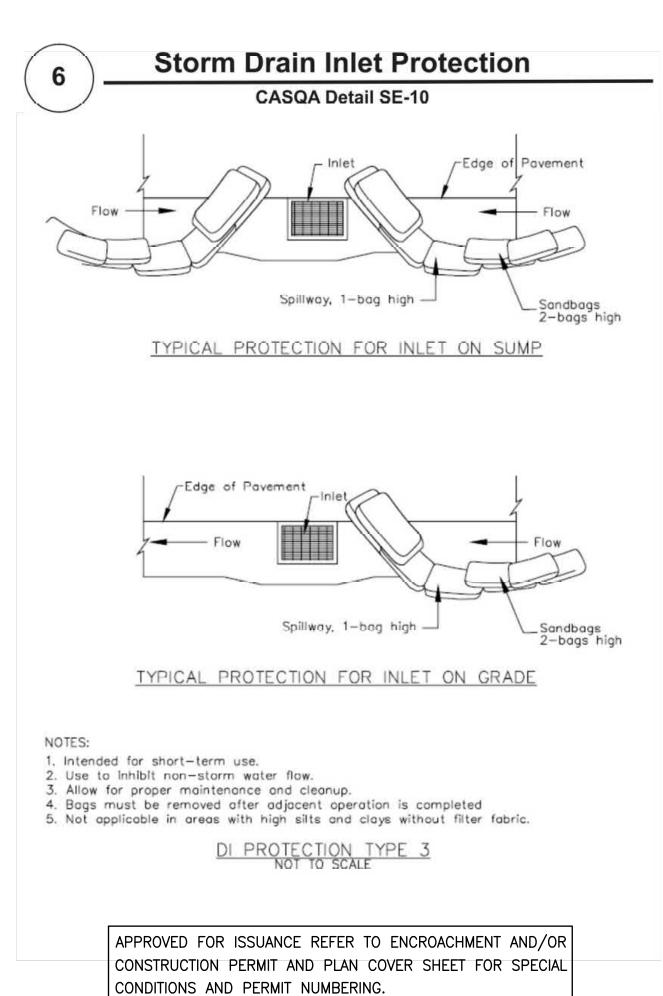


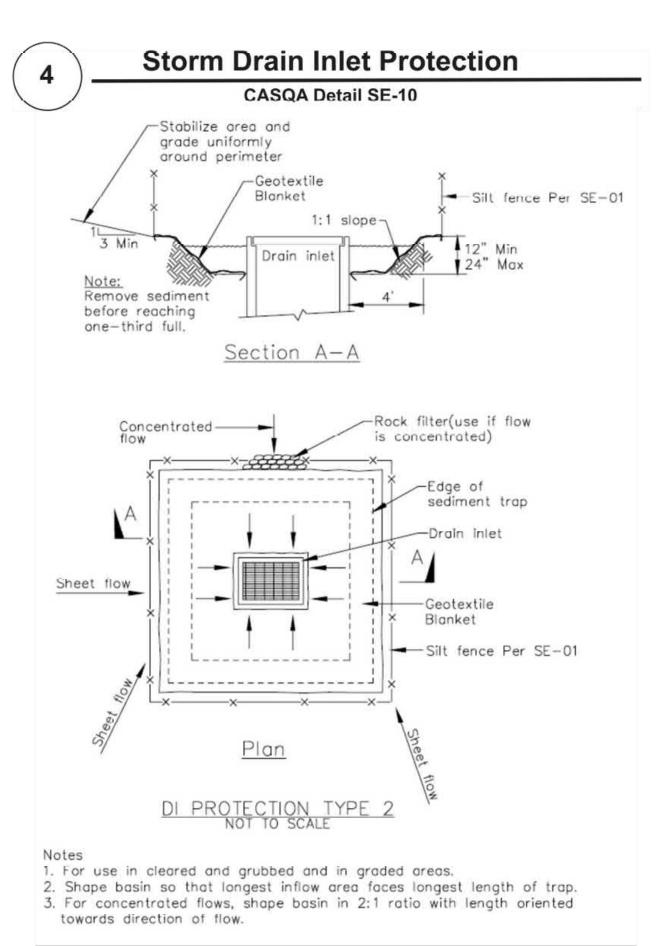


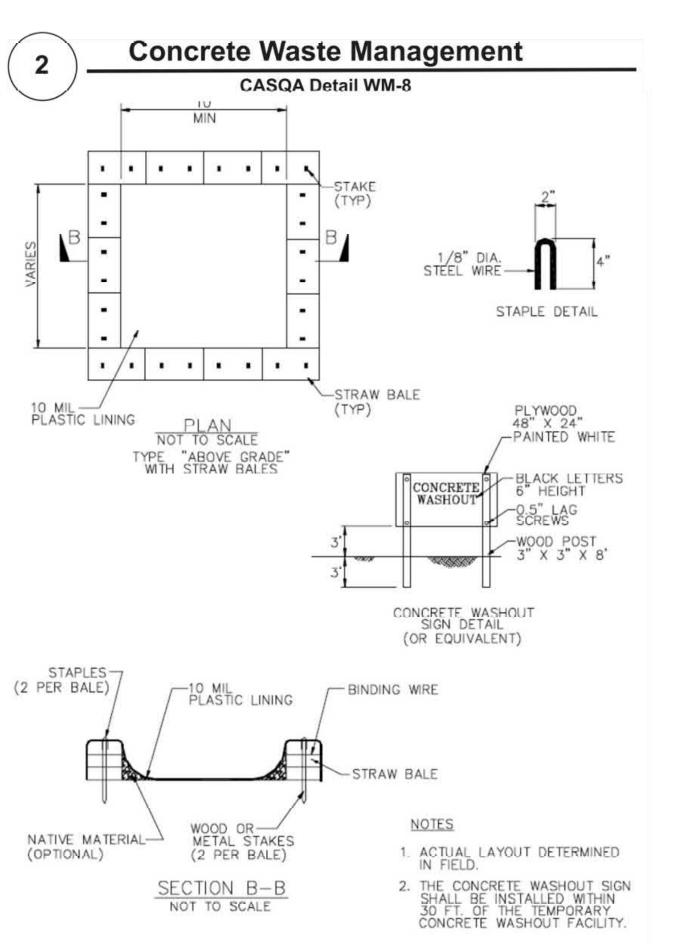


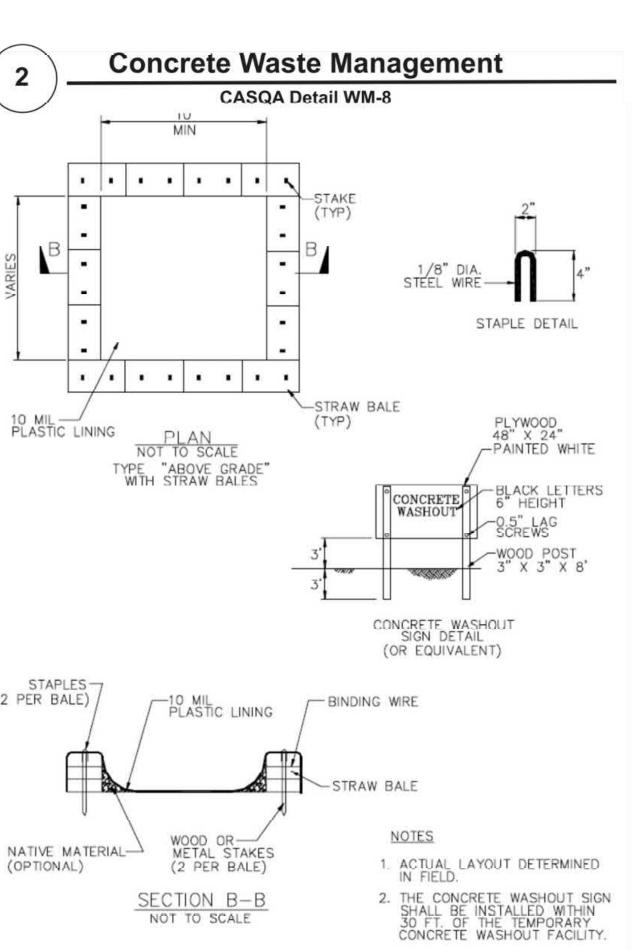
Stormwater Quality Association, January 2003.

Available from www.cabmphandbooks.com.









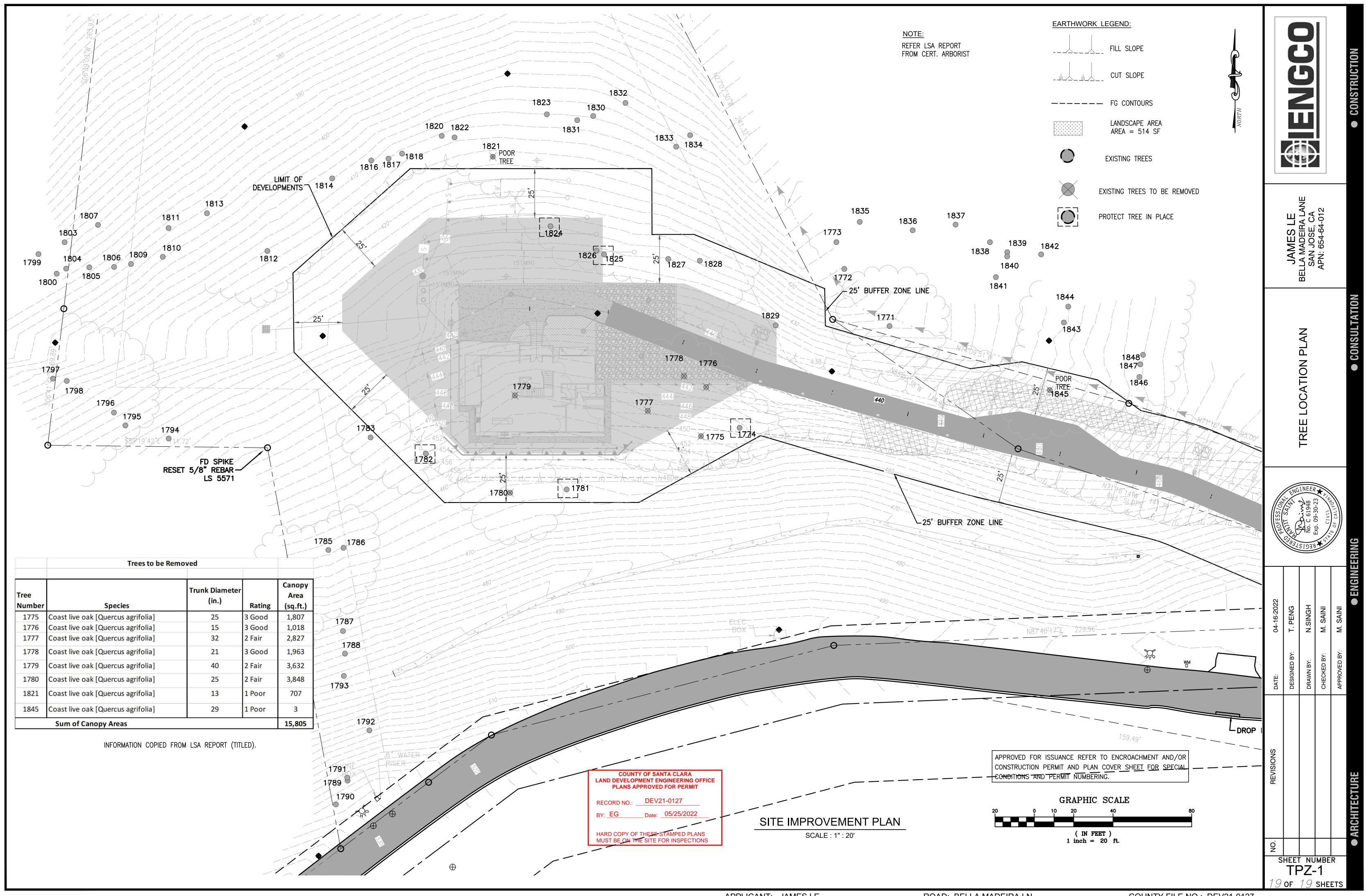
Best Management Practices and Erosion Control Details Sheet 2 County of Santa Clara



BMP-2

COUNTY FILE NO.: DEV21-0127

Information Project



Lavandula spp. Lavender Phormium tenax New Zealand Flax Rhaphiolepis i. "Ballerina" Dwarf India Hawthorne 5 gal. Phormium t. 'Bronze Baby' 5 gal. New Zealand Flax Pittosporum t. 'Wheelers Dwarf' Dwarf Pittosporum 5 gal.

ACCENT # GROUNDCOVER 🗶 I gal. Dietes vegeta

5 gal.

PLANTING NOTES

Baccharıs pılularıs

I. ALL PLANTING SHALL BE COMPLETED IN ACCORDANCE WITH AND CONTRACTOR SHALL BE FAMILIAR WITH AND ADHERE TO SANTA CLARA STANDARD PLANS & SPECIFICATIONS. (COUNTY STANDARD PLANS SHALL SUPERCEDE NOTES IF A CONFLICT OF INFORMATION OCCURS.)

Dwarf Coyote Brush

Fortnight Lily

- 2. FINISH GRADE IN PLANTERS SHALL BE $1\frac{1}{2}$ " INCHES BELOW THE TOP OF ADJACENT PAVING. GRADE ALL PLANTING AREAS SMOOTH AND EVEN. ENSURE THAT ALL PLANTING AREAS MAINTAIN POSITIVE DRAINAGE. 3. PLANTING AREAS SHALL BE KEPT CLEAN AND FREE FROM ALL CONCRETE, ASPHALTIC WASTE, LUMBER, AB BASE OR OTHER IMPURITIES, POLLUTION CAUSED BY GASOLINE, OIL OR OTHER SUCH MATERIALS SHALL BE REMOVED BY
- EXCAVATION OF THE SOIL AND REPLACED WITH CLEAN TOPSOIL AT THE CONTRACTOR'S EXPENSE. 4. IMPORTED TOPSOIL (MIN 8" LAYER) SHALL BE FERTILE, FRABLE NATIVE SOIL OF LOAMY CHARACTER HAVING NORMAL AMOUNT OF HUMUS. THE SOIL SHALL BE FREE OF SUBSOIL, REFUSE, ROOTS OVER $\frac{1}{2}$ " DIAMETER, NOXIOUS WEEDS AND BRUSH OR OTHER HARMFUL MATERIAL.
- 5. SOIL AMENDMENT SHALL BE NITRIFIED FIR OR REDWOOD SOIL CONDITIONER, $\frac{1}{4}$ ". APPLY THE SOIL AMENDMENT TO ALL PLANTED AREAS AT THE RATE OF 4 CU. YDS. PER 1000 SQ. FT. BROADCAST BEST 6-20-20 XB FERTILIZER AT 15 LBS. PER 1000 SQ.FT. THE SOIL IN ALL LANDSCAPED AREAS SHALL BE THOROUGHLY ROTOTILLED OR HAND CULTIVATED TO A MINIMUM DEPTH OF 6" TO ASSURE COMPLETE INCORPORATION OF THE SOILD AMENDMENTS. ANY HARD PANS ENCOUNTERED SHALL BE RIPPED TO ALLOW THOROUGH TILLING OF THE SOIL.
- 6. CONTRACTOR SHALL SUBMIT A SAMPLE OF THE SOIL AMENDMENT TO THE CITY LANDSCAPE INSPECTOR FOR APPROVAL PRIOR TO DELIVERY.

Symbol TREES	<u>Sıze</u>	Botanical Name	Common Name	Water Us
***************************************	24" BOX	Quercus agrifolia	Coast Live Oak	L

TREE REPLACEMENT

(REFER TO SHEET C-11 TREE LOCATION PLAN, FOR TREES TO BE REMOVED)					
TREE #	SPECIES	QUANTITY/SIZE	SPECIES		
1775	QUERCUS AGRIFOLIA	4 -24" BOX.	QUERCUS AGRIFOLIA		
1776	QUERCUS AGRIFOLIA	2 -24" BOX.	QUERCUS AGRIFOLIA		
1777	QUERCUS AGRIFOLIA	4 -24" BOX.	QUERCUS AGRIFOLIA		
1778	QUERCUS AGRIFOLIA	3 -24" BOX.	QUERCUS AGRIFOLIA		
1779	QUERCUS AGRIFOLIA	4 -24" BOX.	QUERCUS AGRIFOLIA		
1780	QUERCUS AGRIFOLIA	4 -24" BOX.	QUERCUS AGRIFOLIA		
1821	QUERCUS AGRIFOLIA	2 -24" BOX.	QUERCUS AGRIFOLIA		
1845	QUERCUS AGRIFOLIA	4 -24" BOX.	QUERCUS AGRIFOLIA		
TOTAL		28 -24" BOX.	QUERCUS AGRIFOLIA		

TREE PLANTING ON SLOPE INSTALLATION DETAIL

2" SETTLED MULCH LAYER -

PROPOSED GRADE -

LANDSCAPE SUMMARY

LANDSCAPE PLANTING AREA: 1.884 SQ.FT. TREE REPLACEMENT AREA: 25,000 SQ.FT. (14 IRR. SF PER TREE) TOTAL IRRIGATED AREA: $1,884 + 392 = 2,276 \, \text{SQ.FT.}$

MAWA: 35,158 GALLONS PER YEAR ETWU: 23,971.4 GALLONS PER YEAR

2X WIDTH OF ROOT BALL

* I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLANS.

SIGNATURE Vali Puin DATE 6.1.22 III

PO BOX 1566

LODI, CA 9524 I (MAILING)

209.327.4261

CRLA 4978

Drawn By: VP
Date: 6.1.22
Scale: "=20"
Job No. 119.16
Revisions:
5.0.00

5.3.22 CITY COMMENTS/CLARIFICATIONS

- ROOT CROWN TO BE AT FINISH

GRADE OR 1-2" ABOVE GRADE

ROTOTILL SOIL TO MIN. I 2" DEPTH

BACKFILL WITH

NATIVE SOIL

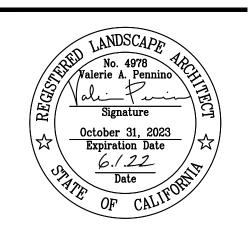


This drawing is not final and shall not be used for construction work until it has been signed by the Landscape Architect

Sheet Number:



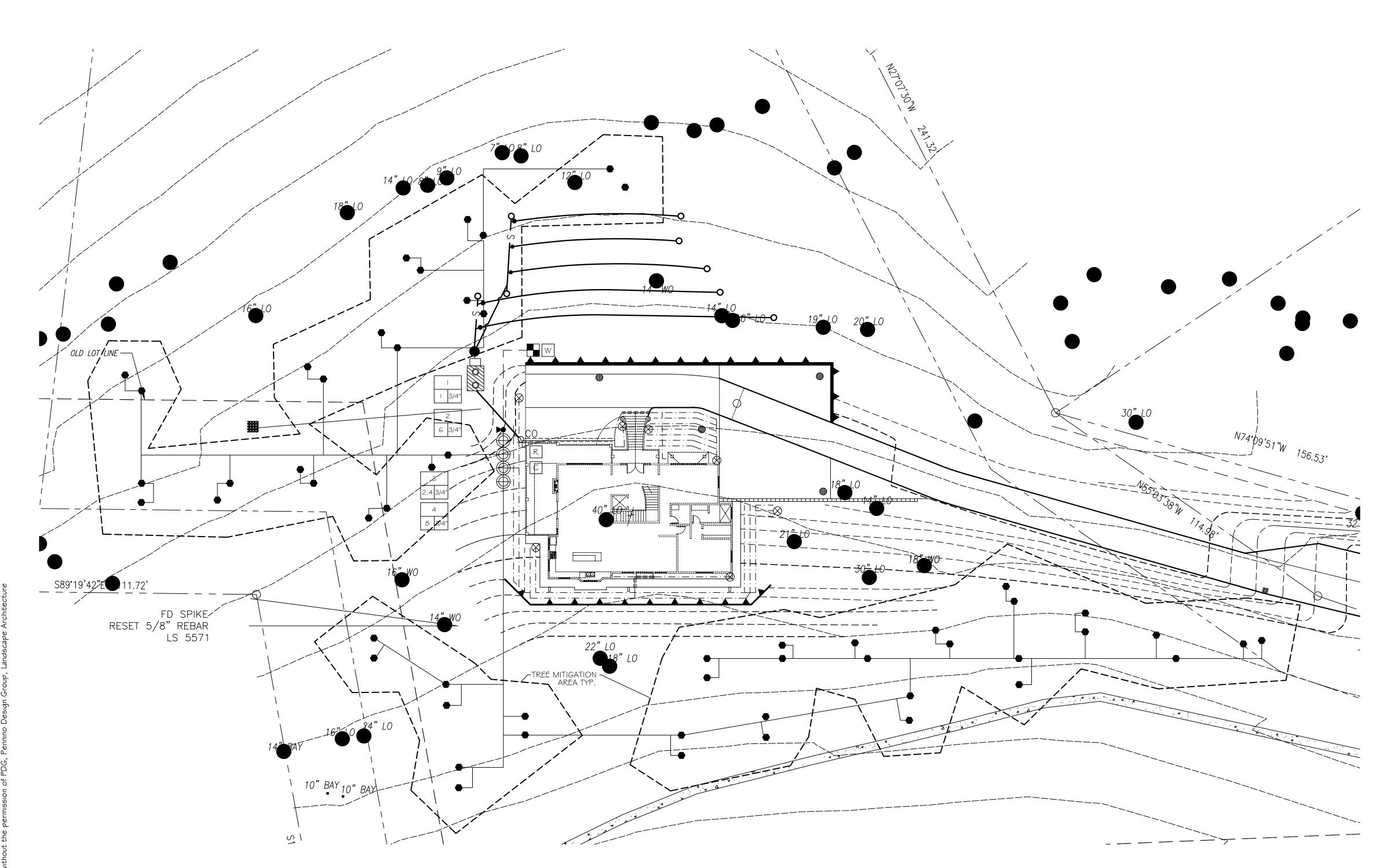
PENNINO ZE DESIGN GROUP



This drawing is not final and shall not be used for construction work until it has been signed by the Landscape Architect

Sheet Number:

Of 3 Sheets



IRRIGATION LEGEND

RAINBIRD XFS-P-06-24, XF-SDI SERIES DRIPLINE W/ 24" EMITTER SPACING

RAINBIRD AR VALVE KIT - SEE DETAIL SHEET LS-10

RAINBIRD RWS-14001, ROOT WATERING SYSTEM WITH 0.25 GPM BUBBLER

RAINBIRD XCZ-100-PRB-COM CONTROL ZONE KIT, SEE PLAN FOR SIZE.

NIBCO T-113 GATE VALVE, LINE SIZE.

RAINBIRD RSD-CEx RAIN SENSING DEVICE

RAINBIRD ESP-LXBASIC, +ESPLXMSM8 MODULE; 20 STATION CONTROLLER, IN LXMMSSPED

RAINBIRD 33DRC, QUICK COUPLER VALVE. CONTRACTOR TO PROVIDE 2 KEYS AND SWIVELS TO THE OWNERS REPRESENTATIVE. FEBCO 825Y-1", REDUCED PRESSURE BACKFLOW PREVENTION DEVICE W/WEATHER BLANKET

WATER METER I", BY OTHERS.

SCH. 40 PVC MAINLINE, I"

CL 200 PVC LATERAL LINE, 3/4" (W/ 12" COVER)

CL 200 PVC LATERAL LINE, I" (W/ I 2" COVER)

REMOTE CONTROL VALVE IDENTIFICATION NUMBER - REMOTE CONTROL VALVE SIZE - REMOTE CONTROL VALVE GPM

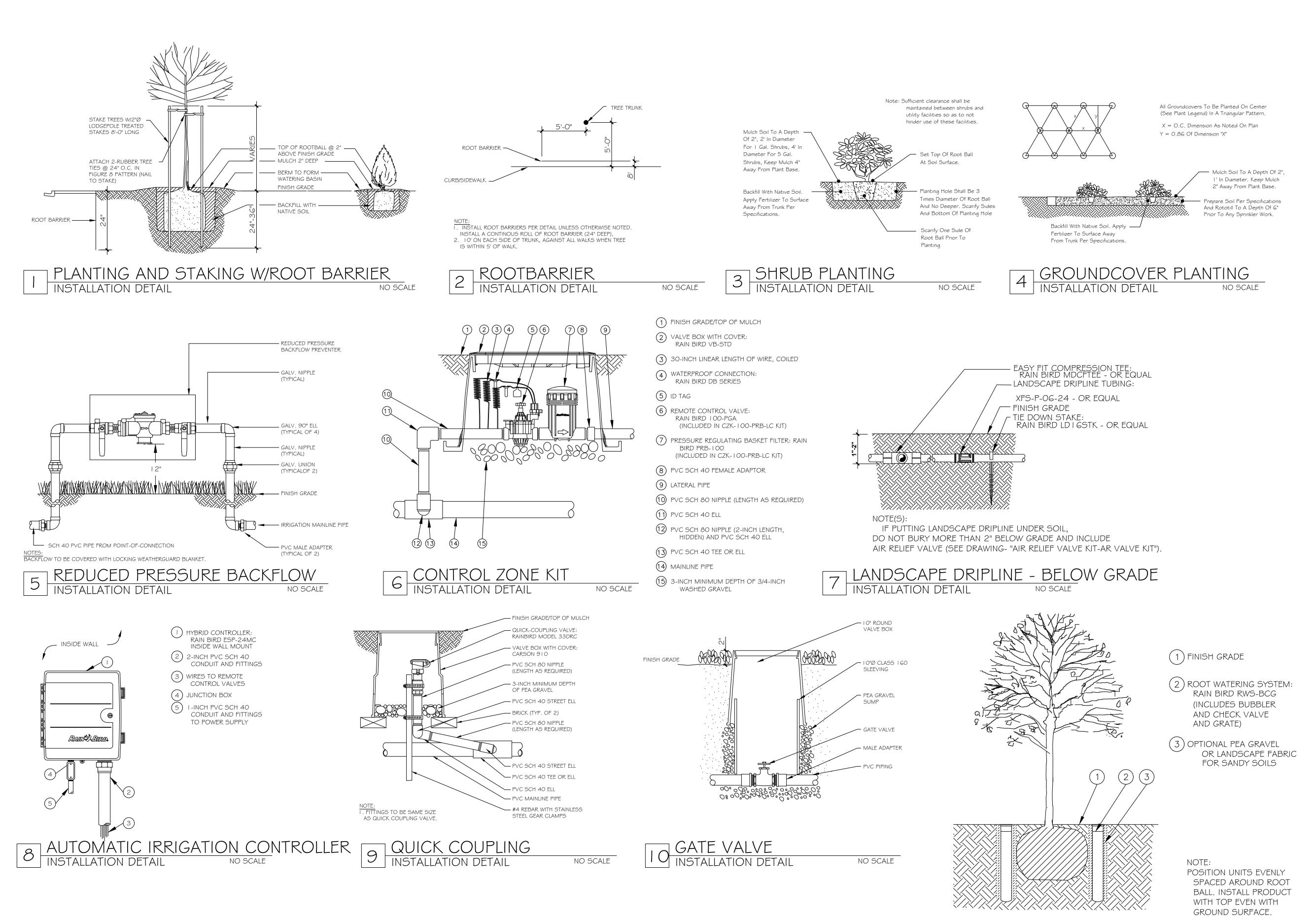
IRRIGATION NOTES

- I. PLAN IS DIAGRAMATIC AND IS NOT INTENDED TO SHOW EXACT LOCATIONS OF PIPING, VALVES, ETC. INSTALL PIPE IN PLANTED AREAS WHENEVER POSSIBLE.
- 2. CONTRACTOR SHALL COORDINATE/VERIFY WATER STUB IN FIELD. 3. ELECTRICAL SUBCONTRACTOR TO SHALL VERIFY EXISTING I I OV
- SERVICES AND SERVICE TO CONTROLLER LOCATION.
- 4. VALVES SHALL BE INSTALLED IN PLANTING AREA IN MARKED VALVE BOXES. LOCATION SHOWN ON PLAN IS FOR CLARITY ONLY.
- 5. ALL VALVES ARE TO BE CONNECTED TO WATER MAIN. 6. SLEEVES SHALL BE INSTALLED UNDER ALL PAVING SURFACES. ALL
- SLEEVING SHALL BE SCH. 40 PIPE AND SHOULD BE TWICE THE SIZE OF THE IRRIGATION LINE.
- 7. SEE IRRIGATION DETAILS FOR ADDITIONAL INFORMATION. 8. THE SYSTEM IS DESIGNED TO OPERATE AT (30) PSI. HIGHEST FLOW DURING IRRIGATION CYCLE IS (8 GPM).
- CONTRACTOR SHALL PERFORM PRESSURE TEST IN-FIELD PRIOR TO INSTALLING IRRIGATION SYSTEM, AND INFORM OWNER IF ADEQUATE PRESSURE IS NOT AVAILALBE, OR PRESSURE IS TOO HIGH. ANY CHANGES MUST BE PRE=APPROVED.
- 9. IRRIGATION SYSTEM SHALL BE INSTALLED PER LOCAL CODES AND ORDINANCES.

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ETWU: 23,971.4 GALLONS PER YEAR * I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLANS. SIGNATURE Vali Puin DATE 6.1.22



PENNINO PENDISCAPE

PENNINO PENDISCAPE

SUITE 200

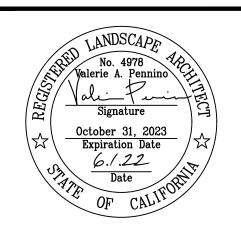
LODI, CA 95242

(OFFICE)
PO BOX 1566
LODI, CA 95241

(MAILING)
209.327.426 |
vpennino@penninogroup.com
CRLA 4978

ETAILS

BELLA MADIERA SAN JOSE, CA



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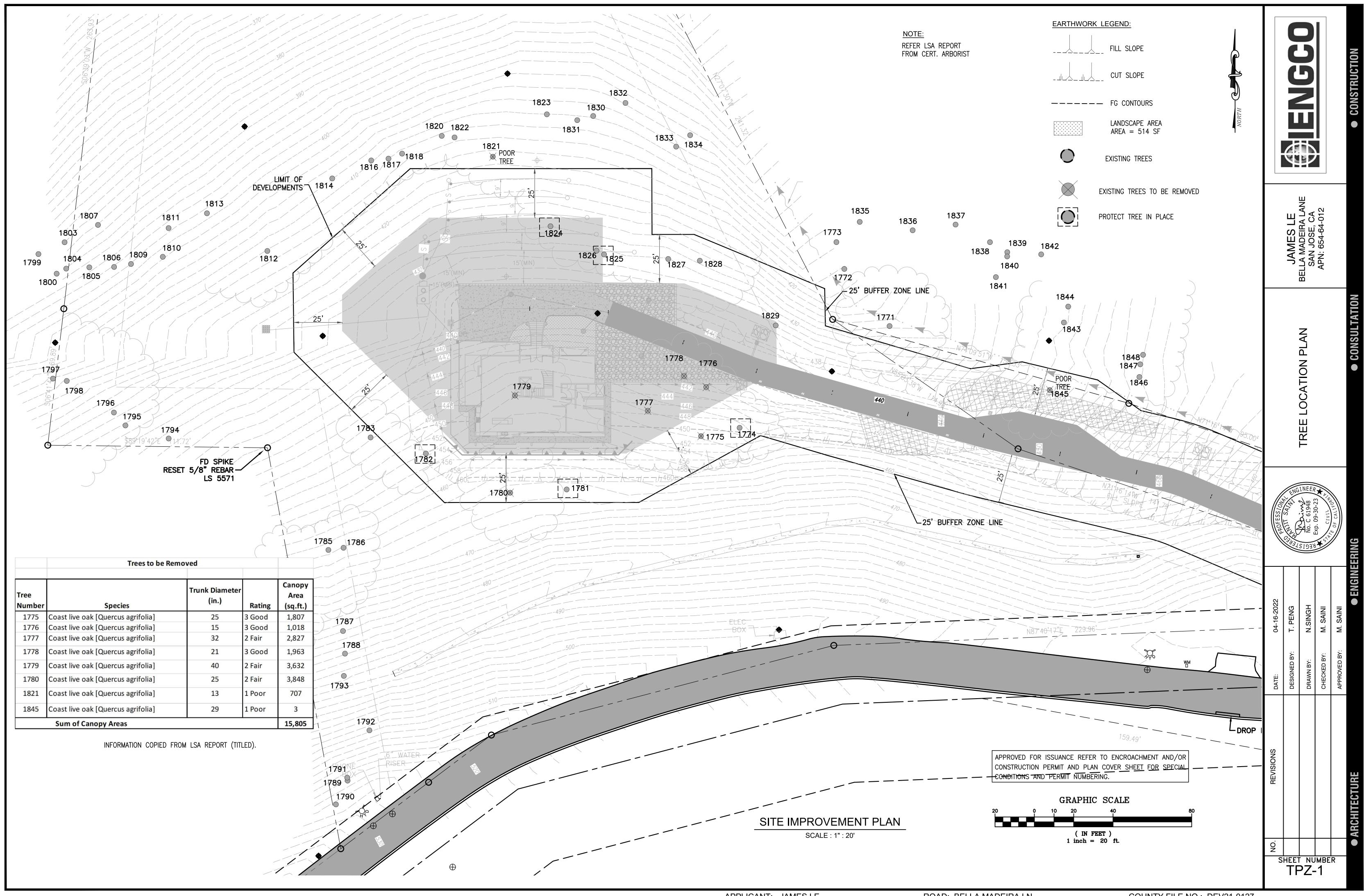
ROOT WATERING SYSTEM

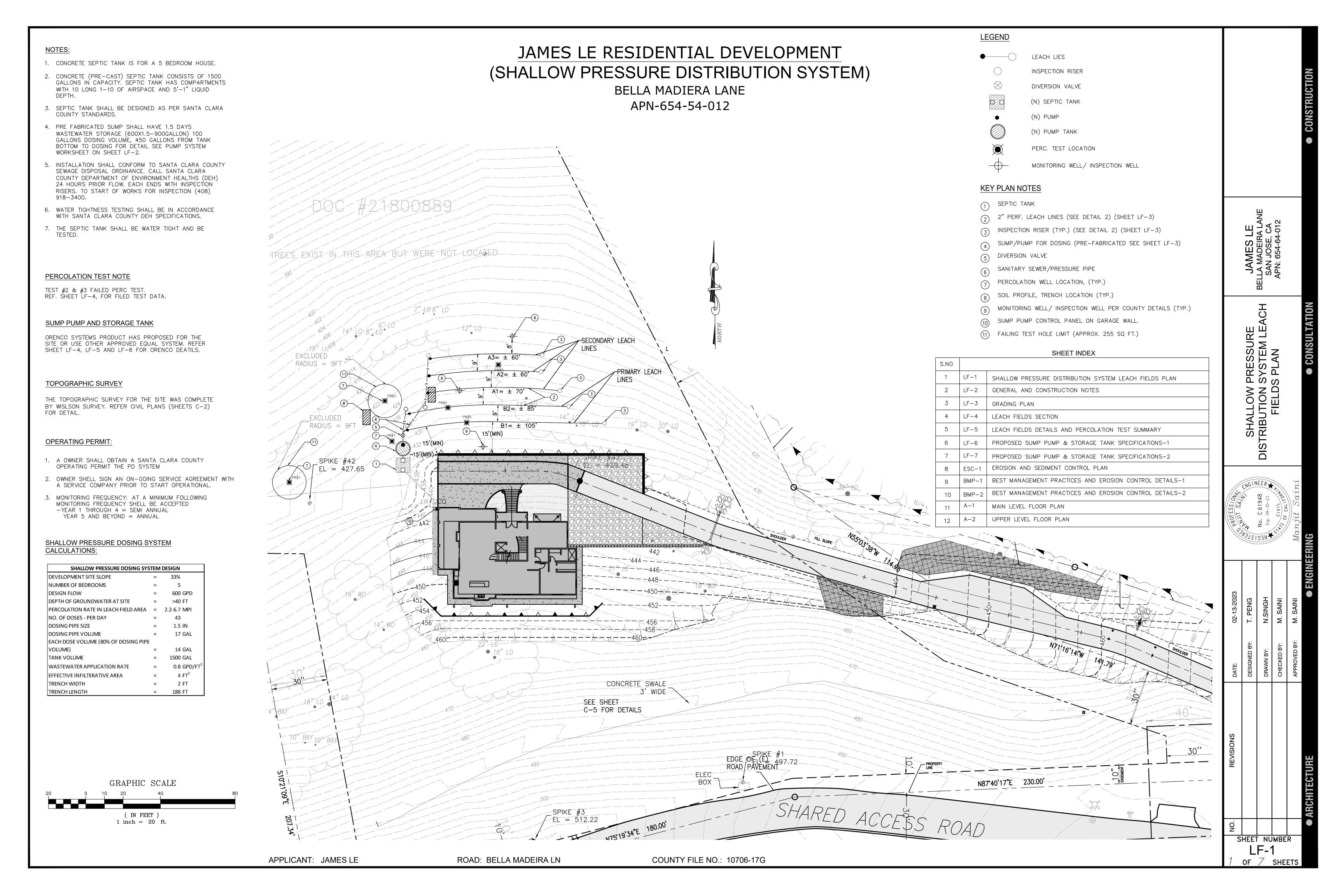
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I INSTALLATION DETAIL

Sheet Number:

Of 3 Sheets





SCOPE OF WORK

FOR SEPTIC WASTEWATER AT THE SITE INCLUDING:

- 2000 GALLONS SEPTIC TANK WITH GATE VALVE AT THE OUTLET.

- SUMP PUMP SYSTEM FROM ORENCO DOSING.

- LEACH FIELD SYSTEM.

REASON OF ALTERNATIVE DISPOSAL SYSTEM

THE GROUND SLOPE AT THE SITE IS >30%. THEREFORE, SHALLOW PRESSURE DISTRIBUTION SYSTEM IS PROPOSED AT THE SITE.

GENERAL CONSTRUCTION NOTES

- 1. IMPLEMENT EROSION AND SEDIMENT CONTROL PLAN PRIOR TO START ANY CONSTRUCTION FOR THE LEACH FIELD SYSTEM IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DRAWINGS INCLUDED IN CIVIL DRAWINGS.
- 2. CLEAR THE SITE FROM ALL VEGETATION PRIOR TO TRENCHING.
- 3. COORDINATE WITH THE COUNTY FOR LEACH FIELD LAYOUTS PRIOR TO START CONSTRUCTION.
- 4. OWTS AREA MUST BE FENCED-OFF DURING CONSTRUCTION ACTIVITIES

CONSTRUCTION INSPECTION NOTES

- AT A MINIMUM, INSPECTION OF THE STANDARD GRAVITY FLOW SYSTEM INSTALLATION SHALL INCLUDE THE ITEMS LISTED BELOW.
- PRE-CONSTRUCTION INSPECTION WHERE THE CONSTRUCTION STAKING OR MAKING OF THE VARIOUS SYSTEM COMPONENTS IS PROVIDED AND CONSTRUCTION PROCEDURES DISCUSSED.
- 2. WATER TIGHTNESS OF SEPTIC TANK AND DOSING (PUMP) TANK.
- 3. LAYOUT AND EXCAVATION OF DISPERSAL TRENCHES AND PIPING
- 4. DRAIN ROCK MATERIAL AND PLACEMENT.
- 5. PIPING INSTALLATION AND HYDRAULIC ("SQUIRT") TEST OF THE DISTRIBUTION SYSTEM
- 6. FUNCTIONING AND SETTING OF ALL CONTROL DEVICES
- 7. FINAL INSPECTION TO VERIFY THAT ALL CONSTRUCTION ELEMENTS ARE IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, ALL PERFORMANCE WELLS ARE INSTALLED; AND EROSION CONTROL HAS BEEN COMPLETED.

CONSTRUCTION OF MONITORING WELLS/INSPECTION WELLS

- 1. INSPECTION WELLS SHALL BE CONSTRUCTED OF 3"
 DIAMETER PIPE, EQUIPPED WITH A WRENCH—TIGHT
 CAP OR PIPE PLUG, AND A BOTTOM CAP.
- 2. ALL WELLS SHALL BE PERFORATED BEGINNING AT A DEPTH OF 18 INCHES BELOW GRADE AND EXTENDING TO THE BOTTOM OF THE PIPE.
- 3. PERFORATIONS SHALL CONSIST OF HACKSAW SLOTS AT NOMINAL 1" SPACING, OR EQUIVALENT COMMERCIALLY—SLOTTED PIPE.
- 4. TO PREVENT SURFACE WATER INFILTRATION, INSPECTION WELLS SHALL BE SEALED WITH A BENTONITE OR CONCRETE ANNULAR SEAL (OR EQUIVALENT) TO A DEPTH OF 12 INCHES, MINIMUM.

PRESSURE DISTRIBUTION PIPING SPECIFICATIONS

- a. Pressure-Rated Pipe Material. All pipe, fittings and valves shall be pressurerated PVC pipe, minimum 150 psi.
- b. **Solvent Welded.** All joints in the pressure piping system shall be solvent welded.
- c. **Pipe Sizing**. All pressure distribution pipes and fittings, including transport lines, manifolds, laterals and valves, must be adequately sized for the design flow, and shall be designed to minimize frictional losses to the maximum extent practicable.
- d. Thrust Blocks. Concrete thrust blocks, or equivalent restraint, shall be provided at sharp changes in piping directions.
- Shut-off Valves. The distribution lateral for each trench shall be fitted with a shut-off valve to adjust or terminate the flow to individual trenches. This valve may be either a ball or gate valve, and shall be located in a utility/valve box.
- f. Lateral End Riser. The end of each lateral shall be fitted with a 90° long sweep to facilitate line cleaning and hydraulic testing. The end riser pipe shall also be fitted with a ball valve and/or threaded end cap or plug, housed in a valve box.

PUMP SYSTEM WORKSHEET

		SYSTEM WORKSHEET	
ApplicantManjit Sa	ini		Date_2022-03-11_
OwnerJames Lee		Fil	e No
Site Address Bella	Madiera	City_San Jose	APN 645-64-012
Designer (REHS or RCI			
Number of bedrooms		Total square footage	— of living space 6000
			T
Septic tank size_			NI/A
	<u> </u>	m Expansion drainfield	_N/A
Elevation of highest dra		7	
Elevation of pump off (ft) =	0	
Total lift (Ft Hea	ad) (A) =	7	
		TIGHT LINE	-
Diameter of tight line (ir	iches)		2
Length of tight line from	<u> </u>	drainfield (ft) (B)	15
	I mile to alebo.	FITTINGS	
No. of Fittings		Pipe Length Equivalent (ft)	Total Pipe Equivalent (ft)
140. OF FILLINGS		See chart	Total Tipe Equivalent (It)
		- Soo Share	
2 v 00 otandard			10
3 x 90° standard 45° standard elbow	X	6	18
90 long radius	X		
other fittings	X		
1 x gate valve (fully	X	1.5	1.5
check valve	X	1.0	1.0
(conventional swing)			
<u> </u>		TOTAL (C) =	19.5
Total Length of Pipe (D) = B + C =		34.5
Total Length of Fipe (D	<u>* </u>	LALCULATIONS:	34.3
Friction Loss in Pipes			
			(C: (: 1)
Friction loss in 2 in pipe	e at 50GPM =	4.16	(friction loss per chart)
(E) Head in ft		(D/100 ft) x4.16 =	1.4352
Required Pump Size:	_		
Total Pumping Head, F	(ft) = (A) + (E)	8.4352	
Pump Size:	· /	ı	
(F) versus GPM = Pum	p Size (refer to	pump curve)	
Pump Model: (Attacl	` `	· · · · · · · · · · · · · · · · · · ·	
50 GPM at 37 (G			
<u> </u>	<u> </u>	<u> </u>	
Manufacturer/Model -		III9/ DEF3UUU	
Required Capacity in	Galions	147	
Dosing Volume Storage Capacity (1 ½)	dave)	900	
Pump Displacement	uayo <i>j</i>	16	
Volume from tank bottle	to pump base	100	
Volume from Pump to D		350	
Total tank capacity		1383	GAL
Pump Tank Information			
Manufacturer- Orenco		Circ. 1500 CAL	Gallons nor inch. 25
manalastaler- orelice	- Jacina	Size: 1500 GAL	Gallons per inch: 25

COUNTY FILE NO.: 10706-17G

SHALLOW PRESSURE DISTRIBUTION SYSTEM MANAGEMENT

	Work	Frequency
Inspection	 Conduct routine visual observations of disposal field and downslope area and surroundings for wet areas, pipe leaks or damage, soil erosion, drainage issues, abnormal vegetation, or other problems. Perform all inspections of pump and appurtenances (per O&M manual and Performance Evaluation Guidelines, Part 5 of this Manual). 	• Every 6 to 12 months.
Maintenance	 Purge laterals, squirt and balance. Exercise valves to ensure functionality. Perform all maintenance work as recommended by equipment manufacturer for any special valves or other components. Investigate and repair erosion, drainage or other disposal field problems, as needed. Investigate and perform distribution system corrective work, as required. Record work done. 	Distribution system maintenance annually. Other maintenance as required.
Water Monitoring & Sampling	 Measure and record water levels in trench observation wells. Measure and record water levels in dispersal field monitoring wells, as applicable, per permit requirements. Obtain and analyze water samples from monitoring wells, as applicable, per permit requirements. 	 Measure trench water levels annually. Other monitoring according to permit conditions, as applicable.
Reporting	 Report findings to DEH per permit requirements. Standard report to include dates, observation well and monitoring well readings and other data collected, work performed, corrective actions taken, and performance summary. Report public health/water quality emergency to DEH immediately. 	 According to permit conditions, typically every 1 to 2 years, depending on system size, usage, history, location.

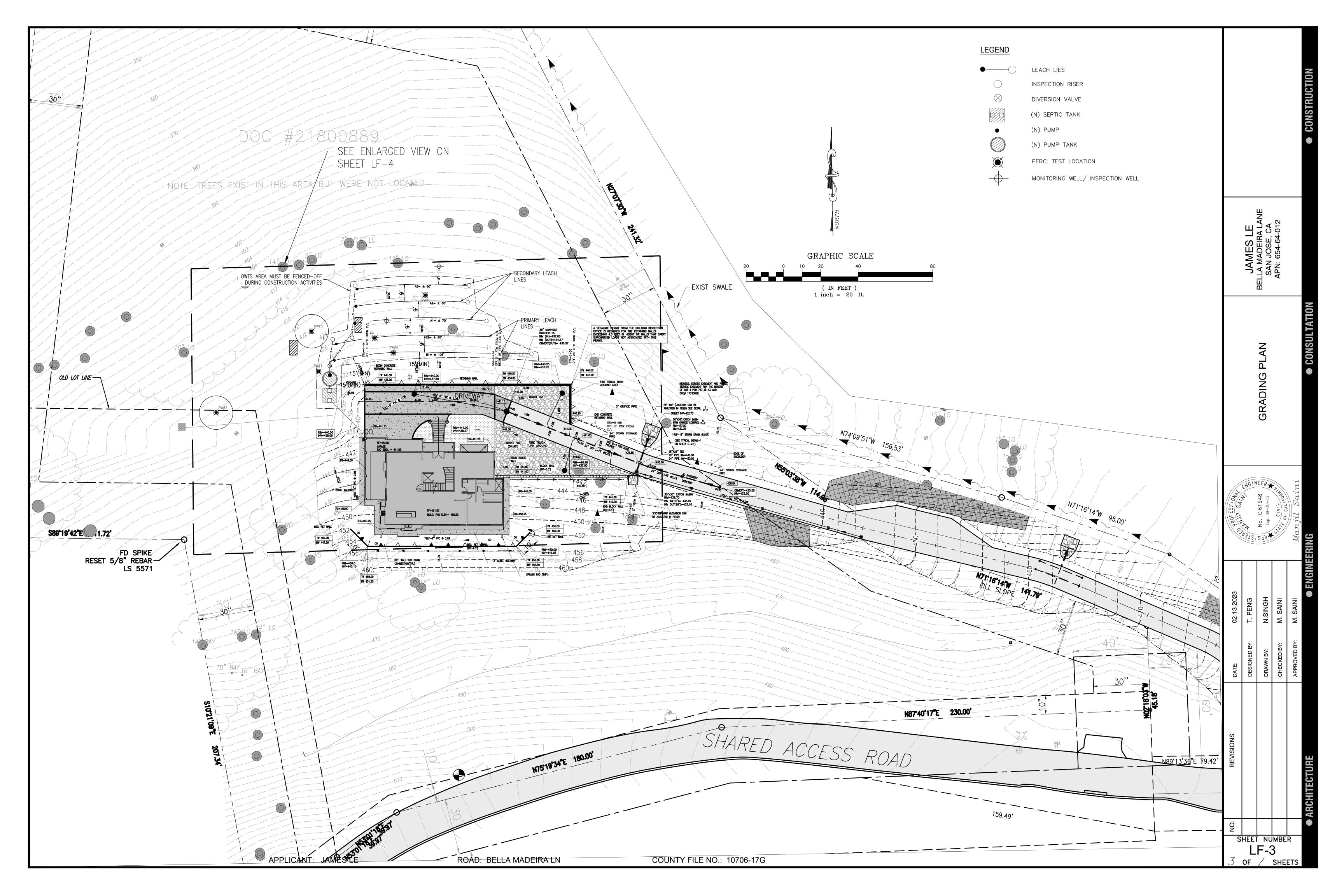
REFERENCE: ONSITE SYSTEM MANUAL. SANTA CLARA COUNTY, DEPARTMENT OF ENVIRONMENT HEALTH, 2014

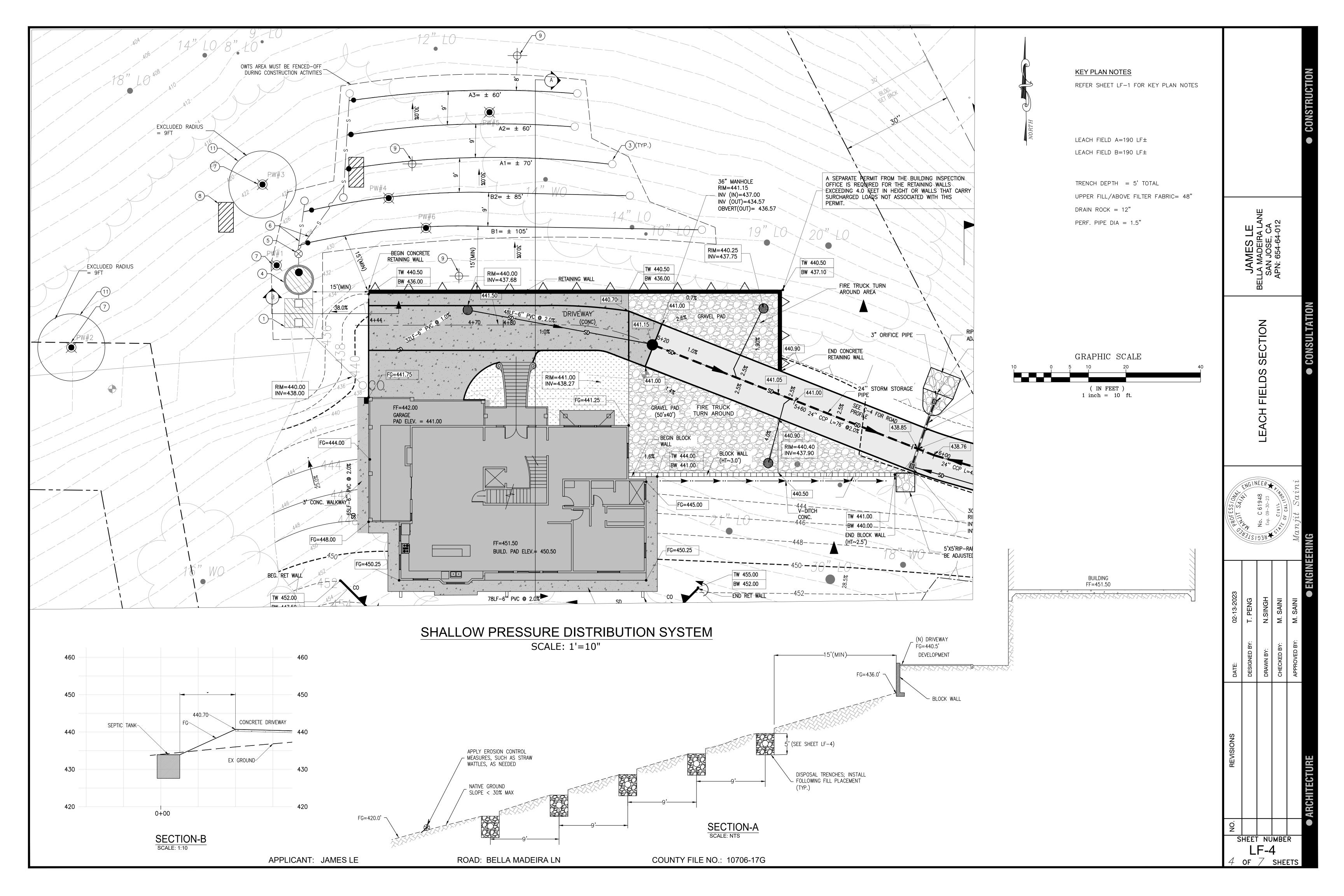
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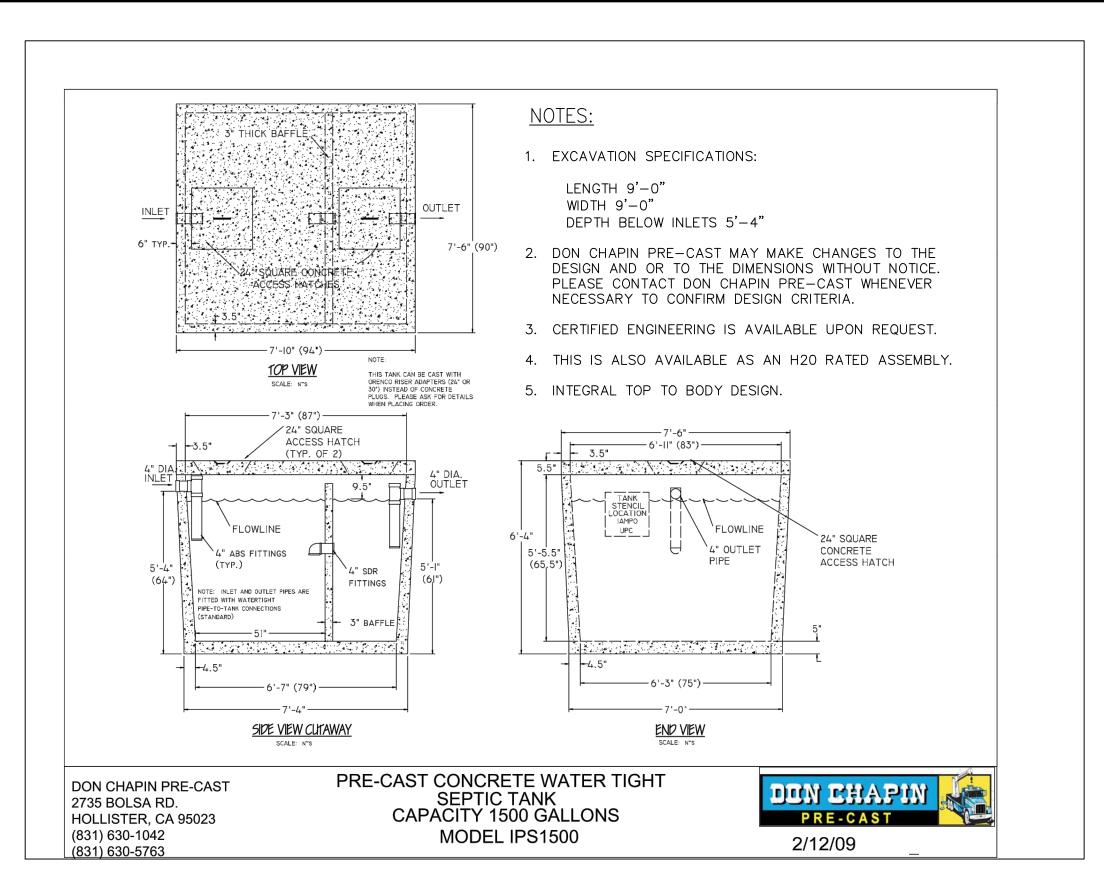
2 of 7 sheets

GENERAL AND ONSTRUCTION NOTES CONSTRUCTION

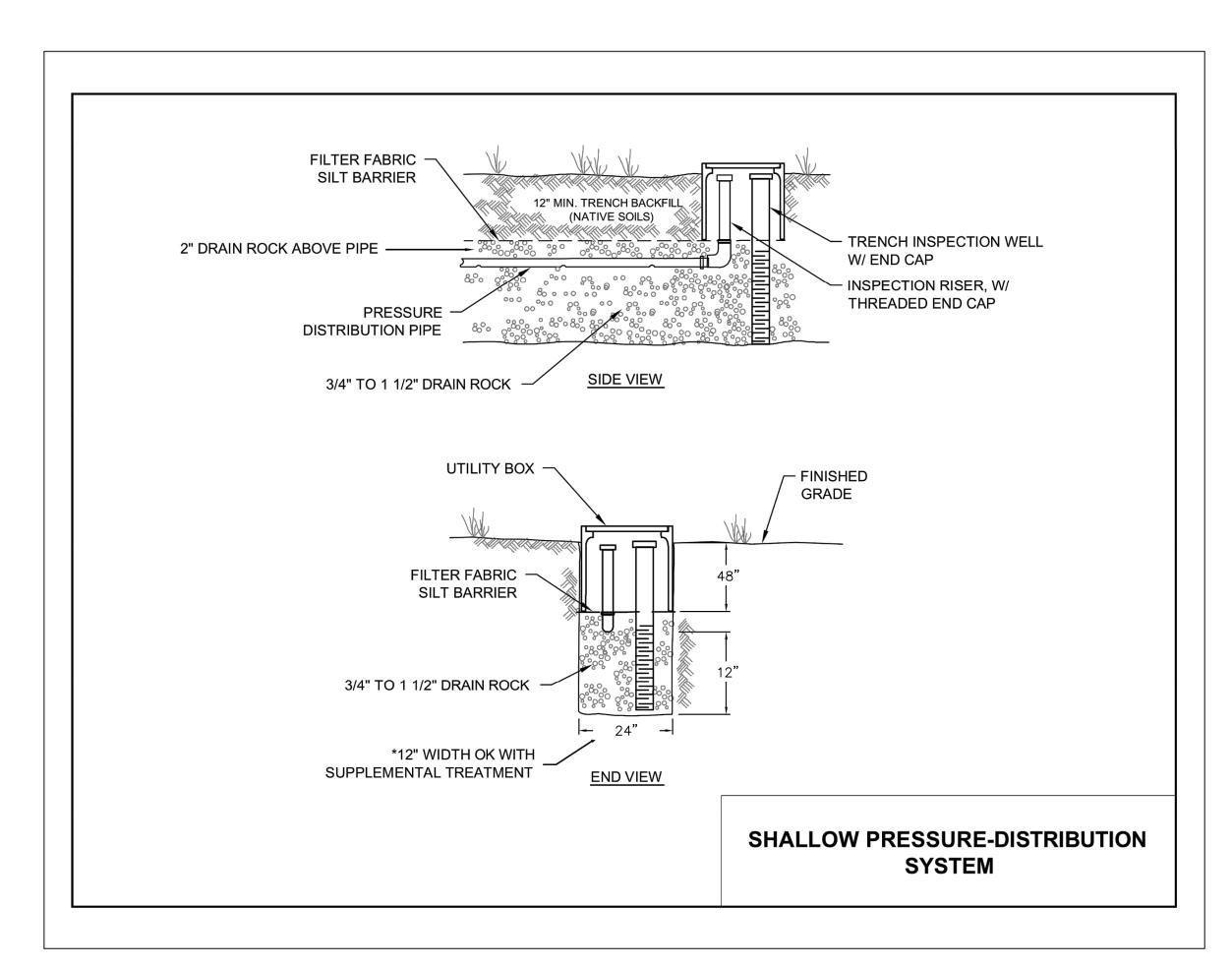
APPLICANT: JAMES LE ROAD: BELLA MADEIRA LN







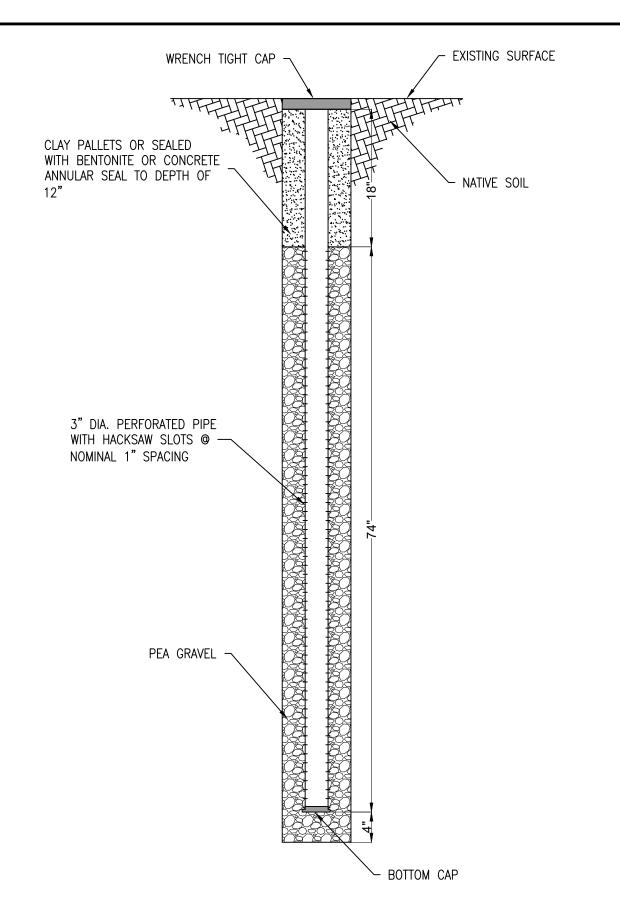
DETAIL 1: DON CHAPIN SEPTIC TANK DETAIL



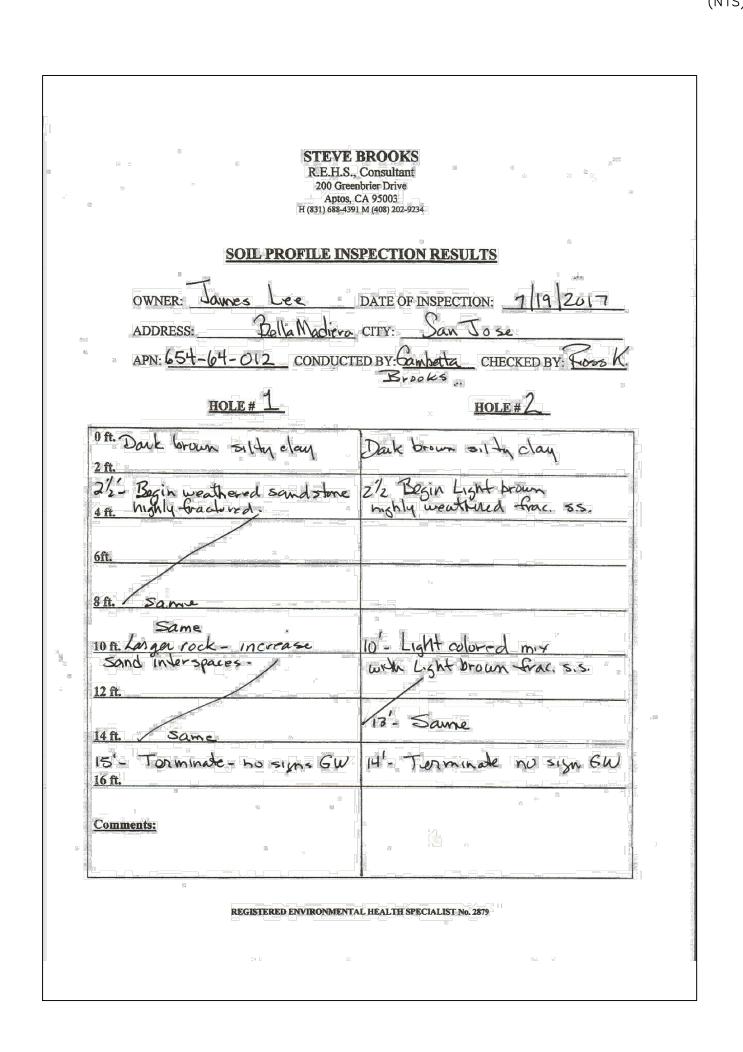
DETAIL 2: TRENCH SECTIONS

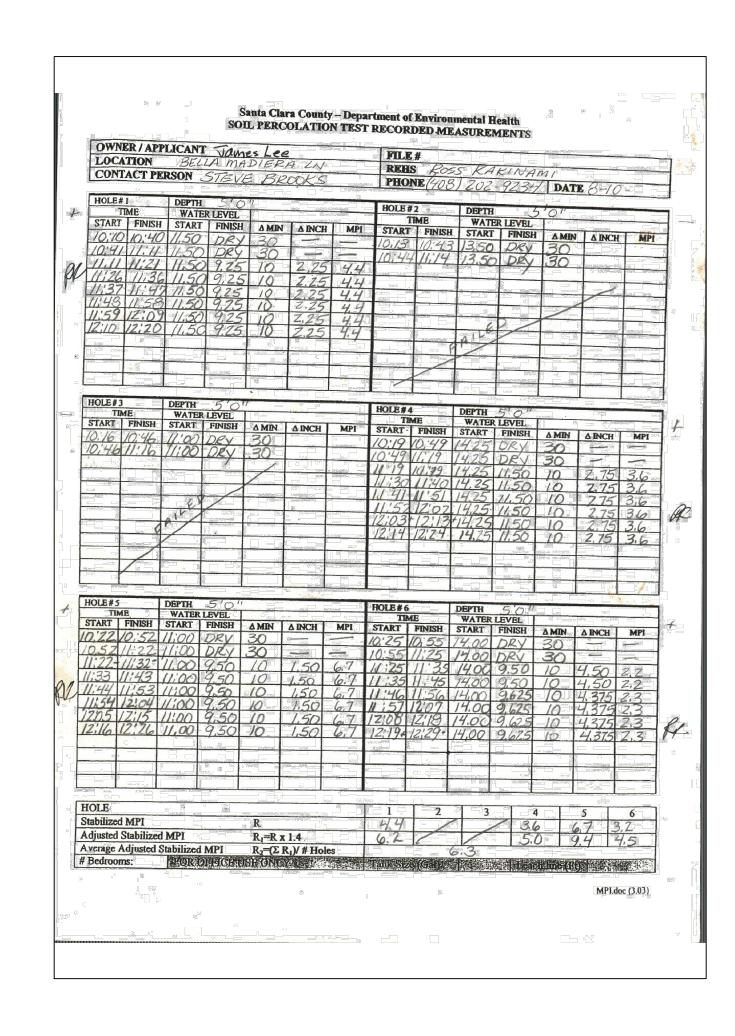
APPLICANT: JAMES LE

ROAD: BELLA MADEIRA LN COUNTY FILE NO.: 10706-17G

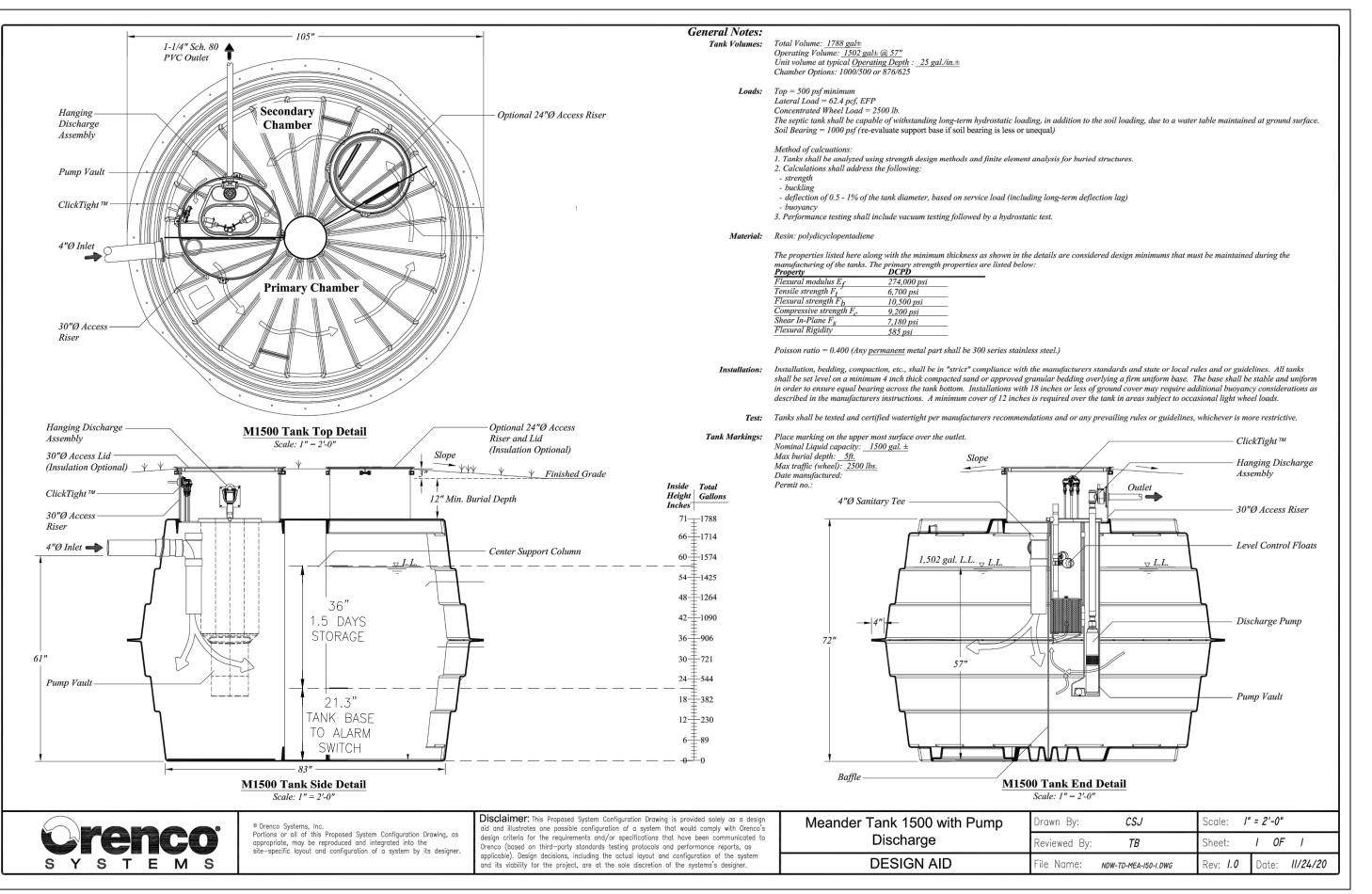


DETAIL 3: MONITORING/INSPECTION WELL DETAIL

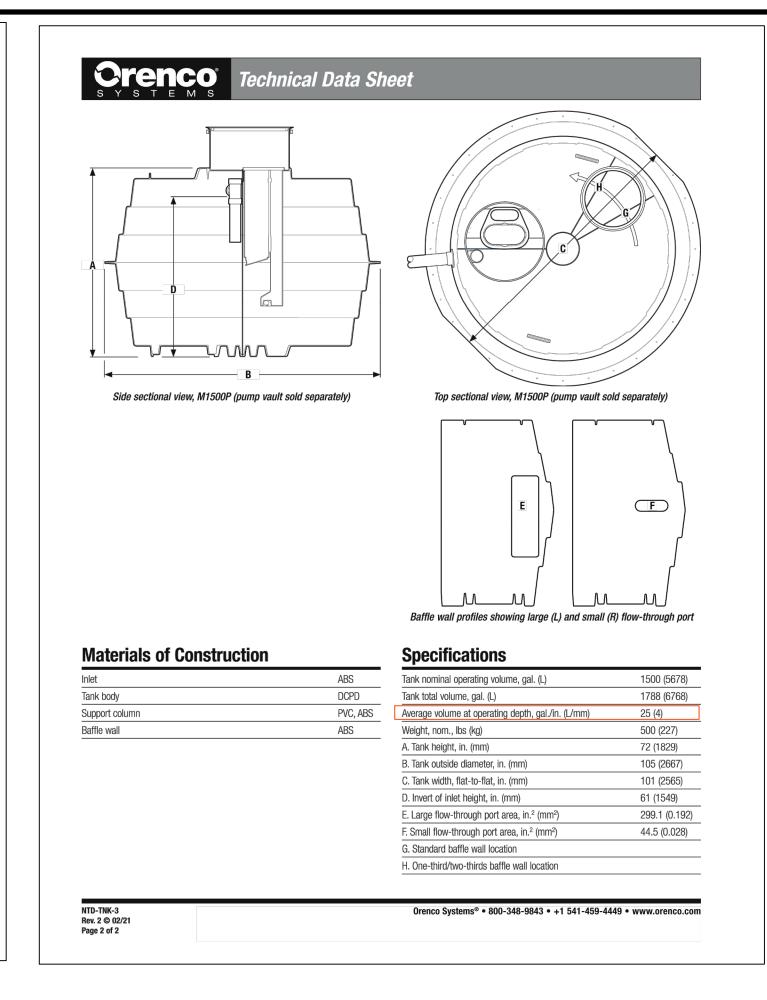




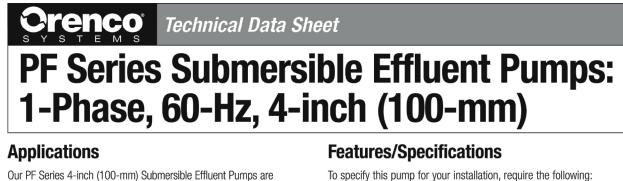
JAN BELLA MA SAN					
		PERCOLATION TEST SUMMARY			● CONSULTATION
CO PROFESSIONAL	ENGIN	No. C 61948 Exp. 09-30-23	CIVIL CIVIL	Manjit Saini	EERING
02-13-2023	T. PENG	N.SINGH	M. SAINI	M. SAINI	ENGINEERING
DATE:	DESIGNED BY:	DRAWN BY:	СНЕСКЕD ВҮ:	APPROVED BY:	
REVISIONS					ARCHITECTURE
NO.		NU		R	•
5		F-5	SHE	ETS	







DETAIL 4: PUMP TANK AND OTHER COMPONENTS



Minimum 24-hour run-dry capability (liquid end) with no deterioration

• Patented 1/8-inch (3-mm) bypass orifice to ensure flow recirculation

Liquid-end repair kits available for better long-term cost of ownership

1.3, and 1.9 L/sec) models; floating stack design on 50 and 75 gpm

Franklin Electric Super Stainless motor, rated for continuous use and

TRI-SEAL™ floating impeller design on 10, 20, and 30 gpm (0.6,

in pump life or performance*

(3.2 and 4.7 L/sec) models

frequent cycling

for motor cooling and to prevent air bind

Available for 10 gpm (0.6 L/sec), 1/2 hp (0.37 kW) [‡] Note: 20-ft cords are available only for pumps through 1½ hp

Our PF Series 4-inch (100-mm) Submersible Effluent Pumps are designed to transport screened effluent (with low TSS counts) from septic tanks or dosing tanks. They are constructed of lightweight, corrosion-resistant stainless steel and engineered plastics; all are fieldserviceable and repairable with common tools; PF Series pumps are CSA certified to the U.S. and Canadian safety standards for effluent pumps, meeting UL requirements.

PF Series pumps are used in a variety of applications, including pressurized drainfields, packed-bed filters, mounds, aerobic units, effluent irrigation, liquid-only (effluent) sewers, wetlands, lagoons, and more. These pumps are designed to be used with a Biotube® pump vault or after a secondary treatment system.

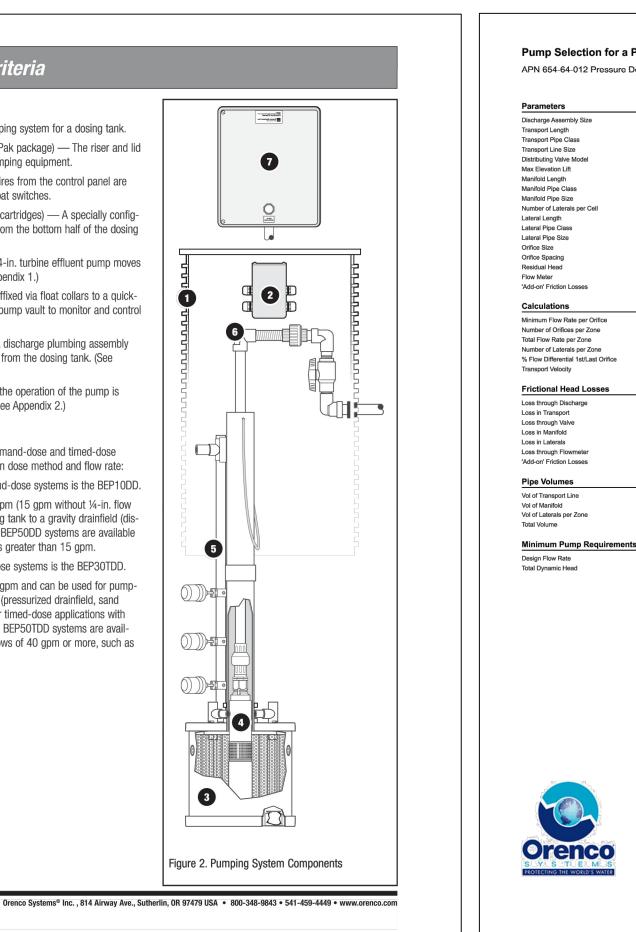
Franklin Electric

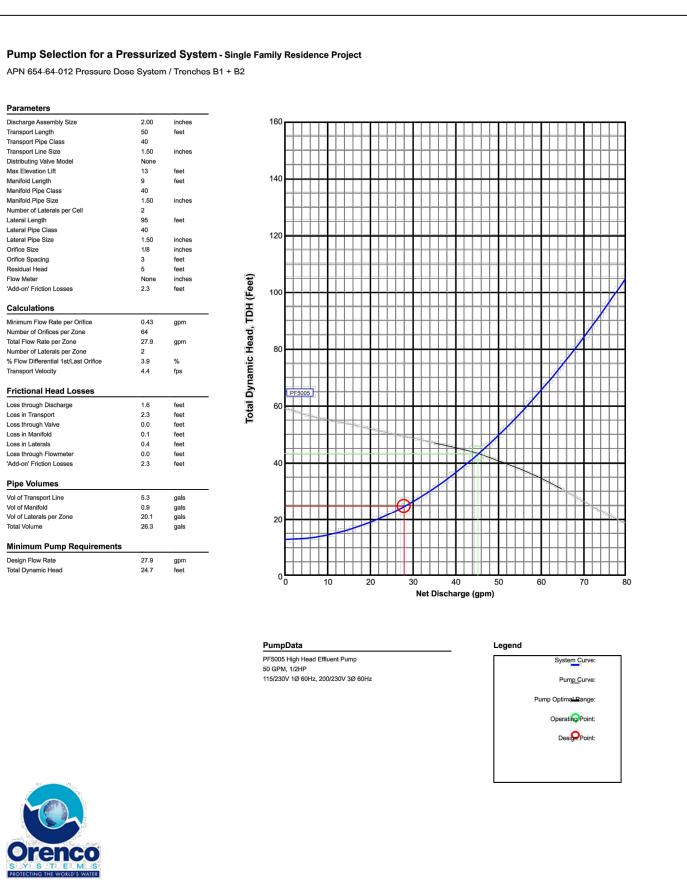


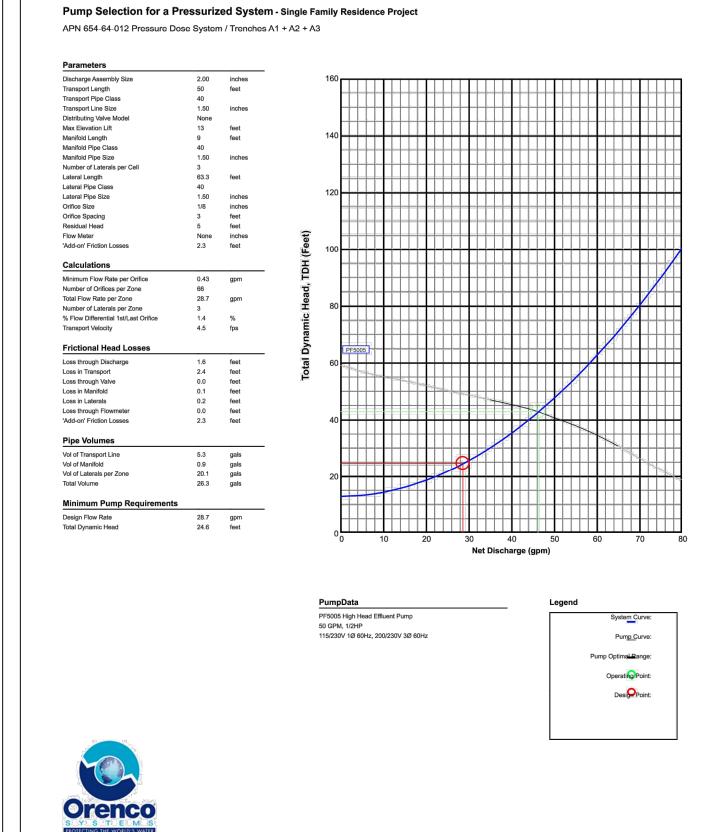
Pumping System Confined Planed
Control Planed
Once Subsection Figure 2 shows the components of an EasyPak pumping system for a dosing tank. 1. Riser and lid (ordered separately from EasyPak package) — The riser and lid on the dosing tank provide access to the pumping equipment. 2. Splice box — In the electrical splice box, wires from the control panel are spliced with the cords from the pump and float switches. 3. Biotube PVEP Pump Vault (with three filter cartridges) — A specially configured pump vault with filter allows pumping from the bottom half of the dosing **4.** Orenco 4-in. turbine effluent pump — A 4-in. turbine effluent pump moves the effluent to the distribution point. (See Appendix 1.) **5. Float switch assembly** — Float switches affixed via float collars to a quickdisconnect float stem are mounted onto the pump vault to monitor and control the liquid level inside the dosing tank. **6.** <u>Discharge plumbing assembly (DPA)</u> — A discharge plumbing assembly connects the pump to the point of discharge from the dosing tank. (See 7. Control panel — A control panel to govern the operation of the pump is mounted within sight of the pump system. (See Appendix 2.) Package Selection All EasyPak pump packages are available in both demand-dose and timed-dose applications. There are two basic packages, based on dose method and flow rate: **1.** <u>Demand-dose</u> — The typical package for demand-dose systems is the BEP10DD. The BEP10DD accommodates flows up to 10 gpm (15 gpm without 1/4-in. flow control) and can be used to pump from a dosing tank to a gravity drainfield (distribution box, hydrosplitter, etc.). BEP30DD and BEP50DD systems are available for demand-dose applications that require flows greater than 15 gpm. **2.** <u>Timed-dose</u> — The typical package for timed-dose systems is the BEP30TDD. The BEP30TDD accommodates flows up to 40 gpm and can be used for pumping from a dosing tank to a final dispersal area (pressurized drainfield, sand filter, etc.). BEP10TDD systems are available for timed-dose applications with flows of 10 gpm or less, such as drip irrigation. BEP50TDD systems are available for timed-dose applications that require flows of 40 gpm or more, such as

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DETAIL 5: PUMP PACKAGE AND OTHER COMPONENTS

APPLICANT: JAMES LE COUNTY FILE NO.: 10706-17G ROAD: BELLA MADEIRA LN

SHEET NUMBER



The EasyPak Design Aid CD-ROM allows system designers and specifiers to select the correct system for the application. When information about the drainfield or sand filter is entered, a PumpSelect™ program, which has been specially designed for EasyPak, calculates the pump flow rate and TDH required for the system. For help in calculations, see Appendix 3 in this document, "Headloss in Discharge Assemblies."

Standard EasyPak™ Packages

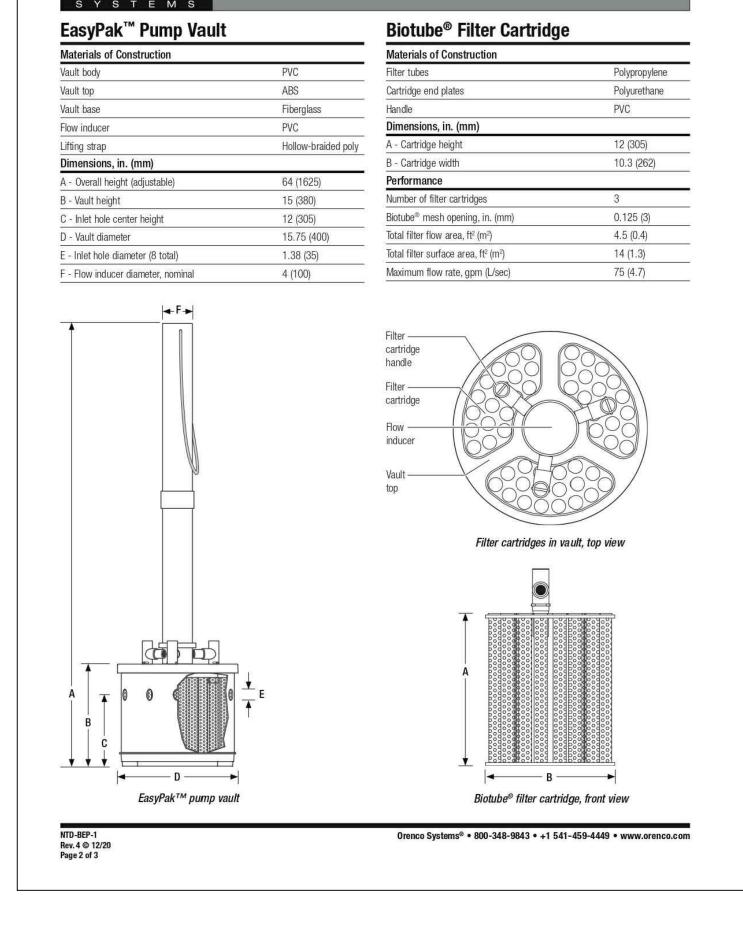
Demand Dose			Timed Dose				
Model Code	Discharge	Maximum Flow Rate	Model Code	Discharge	Maximum Flow Rate		
BEP10DD	Standard	15 GPM	BEP10TDD	Standard	15 GPM		
BEP10DD-DB	Drainback	15 GPM	BEP10TDD-DB	Drainback	15 GPM		
BEP10DD-CW	Cold Weather	15 GPM	BEP10TDD-CW	Cold Weather	15 GPM		
BEP30DD	Standard	40 GPM	BEP30TDD	Standard	40 GPM		
BEP30DD-DB	Drainback	40 GPM	BEP30TDD-DB	Drainback	40 GPM		
BEP30DD-CW Cold Weather 40 GPM		40 GPM	BEP30TDD-CW	Cold Weather	40 GPM		
BEP50DD	Standard	65 GPM	BEP50TDD	Standard	65 GPM		
BEP50DD-DB	Drainback	65 GPM	BEP50TDD-DB	Drainback	65 GPM		
BEP50DD-CW	Cold Weather	65 GPM	BEP50TDD-CW	Cold Weather	65 GPM		

Accessory Equipment

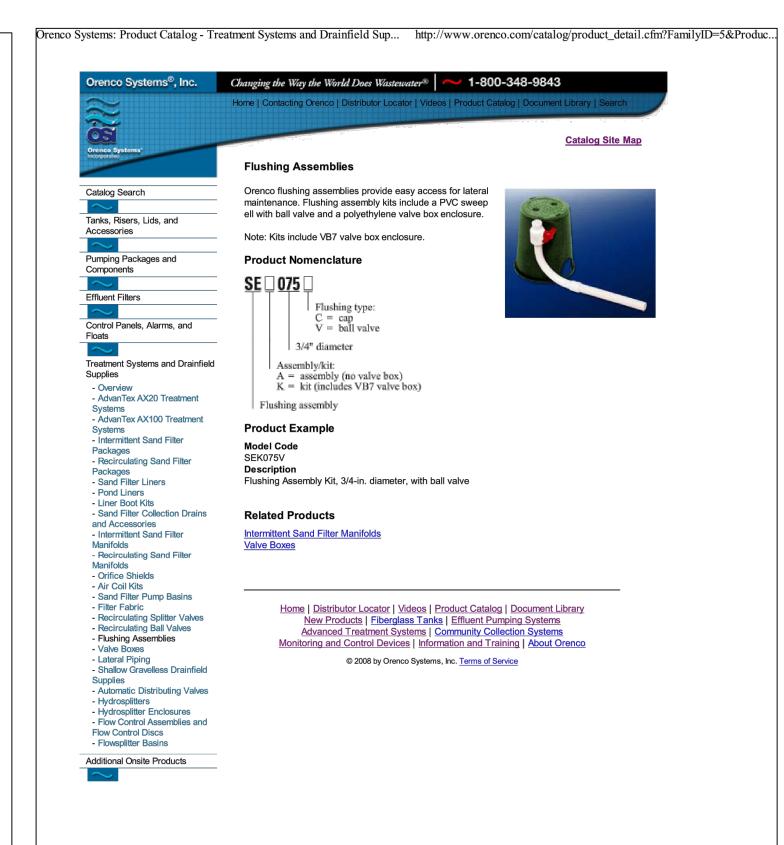
The following products may be required to complete the package:

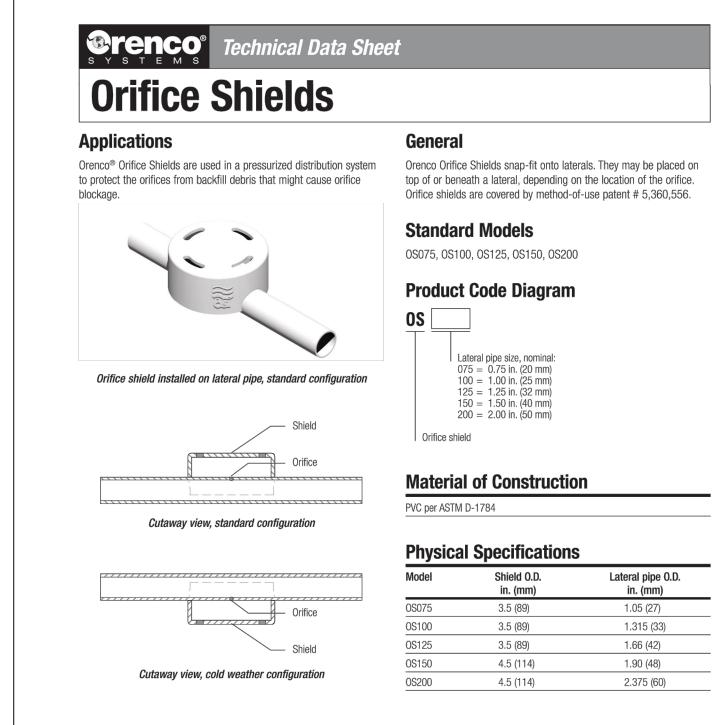
- Access Risers with Fiberglass Lids Riser Tank Adapters with Bolt-Down Kit
- Adhesives
- Anti-Siphon Valve
- Grommets See Orenco's General Onsite Products Catalog to order these products.

Orenco Systems® Inc. , 814 Airway Ave., Sutherlin, OR 97479 USA • 800-348-9843 • 541-459-4449 • www.orenco.com



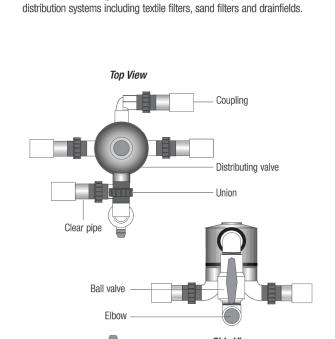
chnical Data Sheet





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Distributing Valves Applications



Automatic Distributing Valve Assemblies are used to pressurize multiple zone

Orenco's Automatic Distributing Valve Assemblies are mechanically operated and sequentially redirect the pump's flow to multiple zones or cells in a distribution field. Valve actuation is accomplished by a combination of pressure and flow. They allow the use of smaller horsepower pumps on large sand filters and drainfields. For example, a large community drainfield requiring 300 gpm (18.90L/sec) can use a six-line valve assembly to reduce the pump flow rate requirement to only 50 gpm (3.14L/sec).

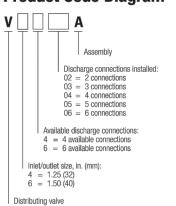
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Orenco only warrants Automatic Distributing Valves when used in conjunction with High-Head Effluent Pumps with Biotube® pump vaults to provide pressure and flow requirements, and to prevent debris from fouling valve operation. An inlet ball valve, a section of clear pipe, and a union for each outlet are provided for a complete assembly that is easy to maintain and monitor. Ideal valve location is at the high point in the system. Refer to Automatic Distributing Valve Assemblies (NTP-VA-1) for more information.

Standard Models

V4402A, V4403A, V4404A, V4605A, V4606A, V6402A, V6403A, V6404A, V6605A, V6606A.

Product Code Diagram



Materials of Construction

All Fittings	Sch. 40 PVC per ASTM specification
Unions	Sch. 80 PVC per ASTM specification
Ball Valve	Sch. 40 PVC per ASTM specification
Clear Pipe	Sch. 40 PVC per ASTM specification

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NTD-SF-VA-1 Rev. 2.0, © 03/17 Page 1 of 2

APPLICANT: JAMES LE

1.50 (38)

* When using an enclosed basin, choose the next larger-sized diameter.

Model	Inlet Size, in. (mm)	Outlets Size, in. (mm)	Flow Range, gpm (L/sec)	Max Head, ft (m)	Min. Enclosure*
V4402A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	VB1217
V4403A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	VB1217
V4404A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	VB1217
V4605A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	RR2418
V4606A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	RR2418
V6402A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6403A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6404A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6605A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418

Table 1. Automatic Distributing Valve Assembly Headloss Equations

1.50 (38)

	4600A $H_L = 0.085 \times Q^{1.58}$								10 - 25 (0.63 – 1.57)						
V64 0	6400A $H_L = 0.0045 \times Q^2 + 3.5 \times (1 - e^{0.000})$							15 - 70 (0.95 – 4.42)							
V660)OA				$H_L = 0.0049 \times Q^2 + 5.5 \times (1 - e^{-0.10})$							15 - 70 (0.95 — 4.42)			
	35 —														_
_	30													V6600A	
Head Loss through Assembly (Tt)	25														
4ssem															
ongn /	20					,,	40004		V4	400A				V6400A	
ss thr	15						4600A –								
ad Lo	10														
He	5														
	0														
	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70
							F	low (gpm)							

COUNTY FILE NO.: 10706-17G

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SHEET NUMBER

AND

NTD-SF-0S-1

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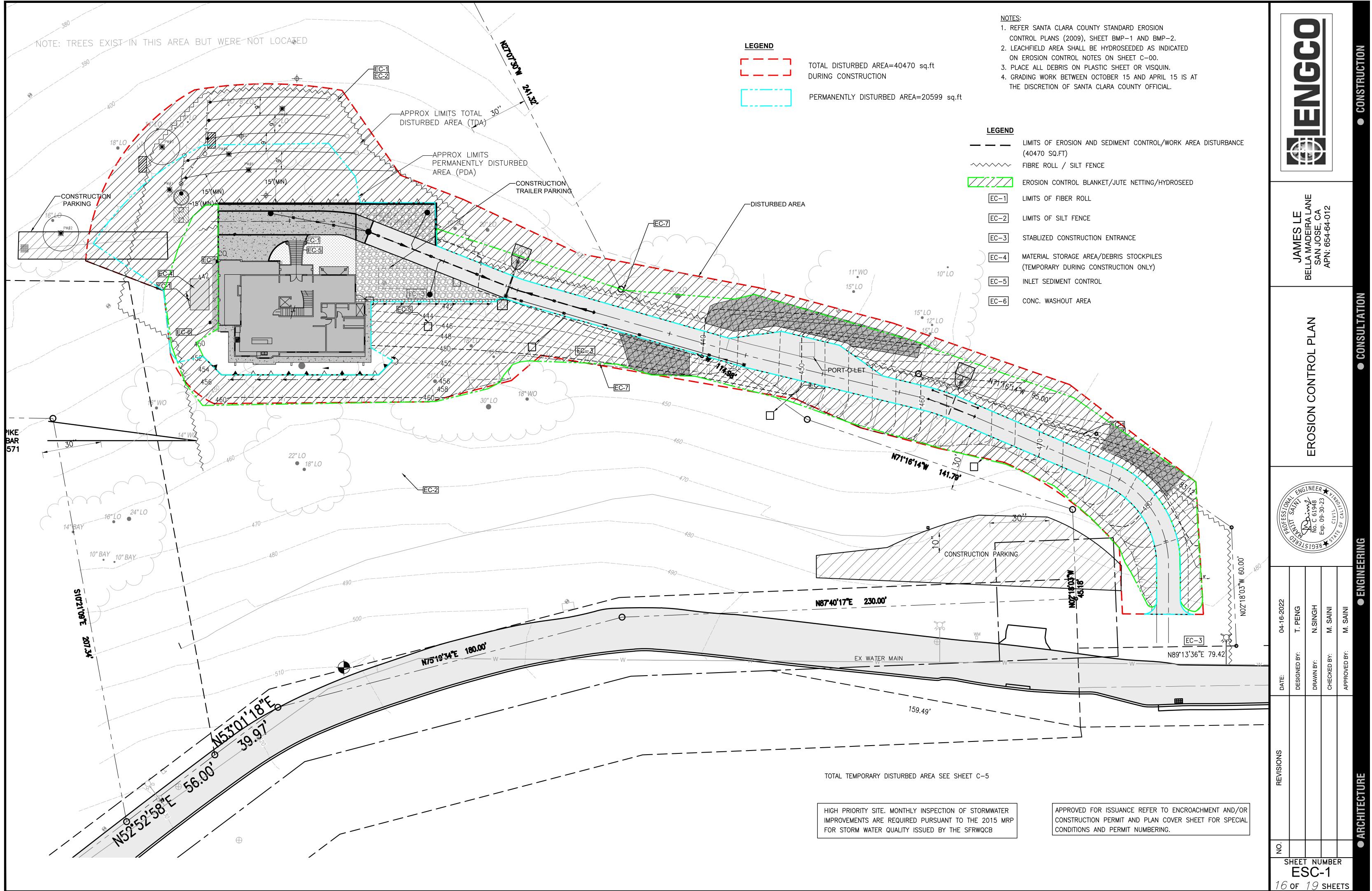
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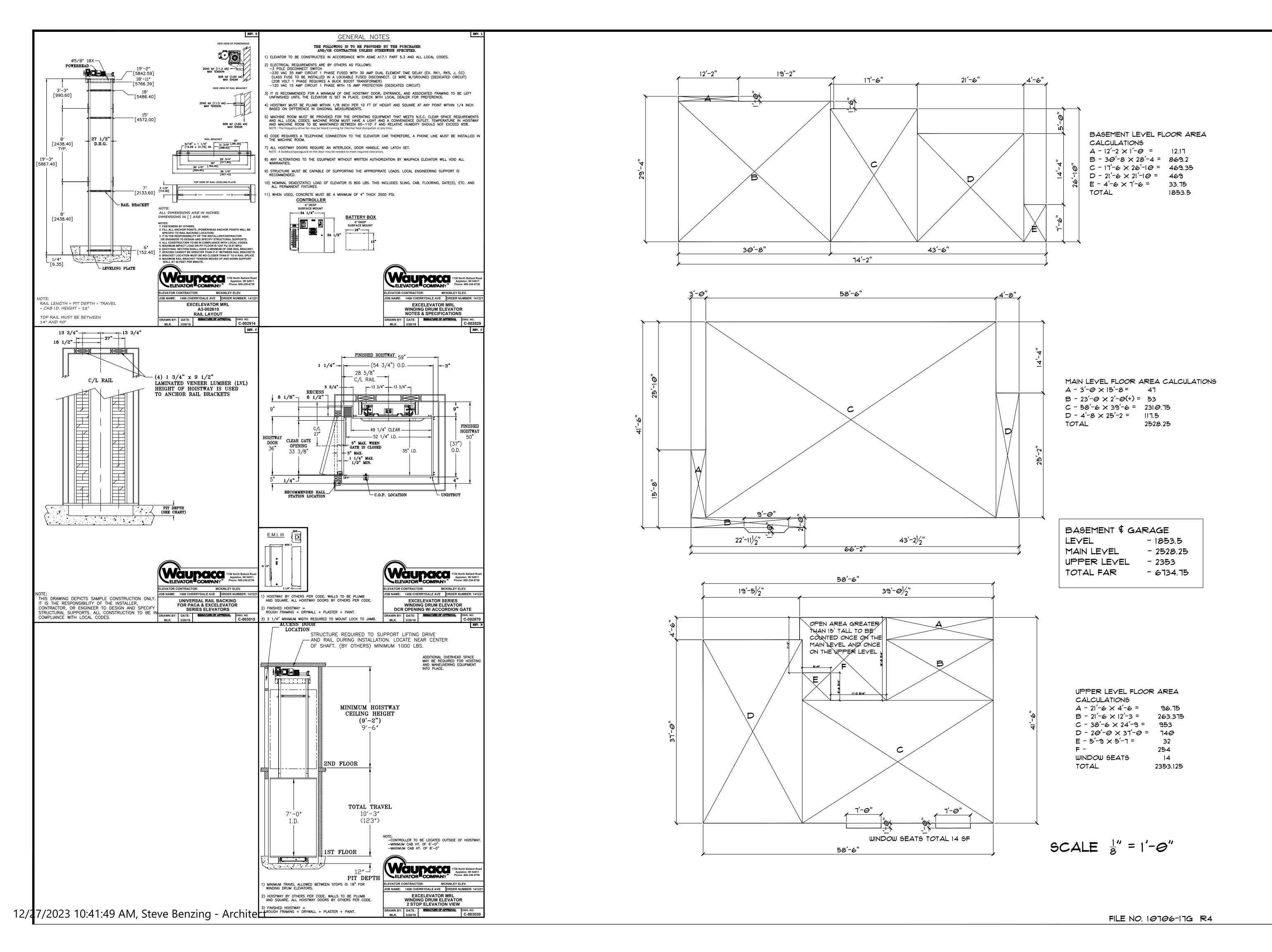
Operating Range, gpm (L/sec)

15 – 100 (0.95 – 6.31) 345 (105.16) RR2418

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ROAD: BELLA MADEIRA LN





STEVE BENZING ARCHITECT

C-17985

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328
EMAIL STEVE@BENZARCH.COM
WEBSITE: BENZARCH.COM

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FLOOR AREA CALCULATIONS

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

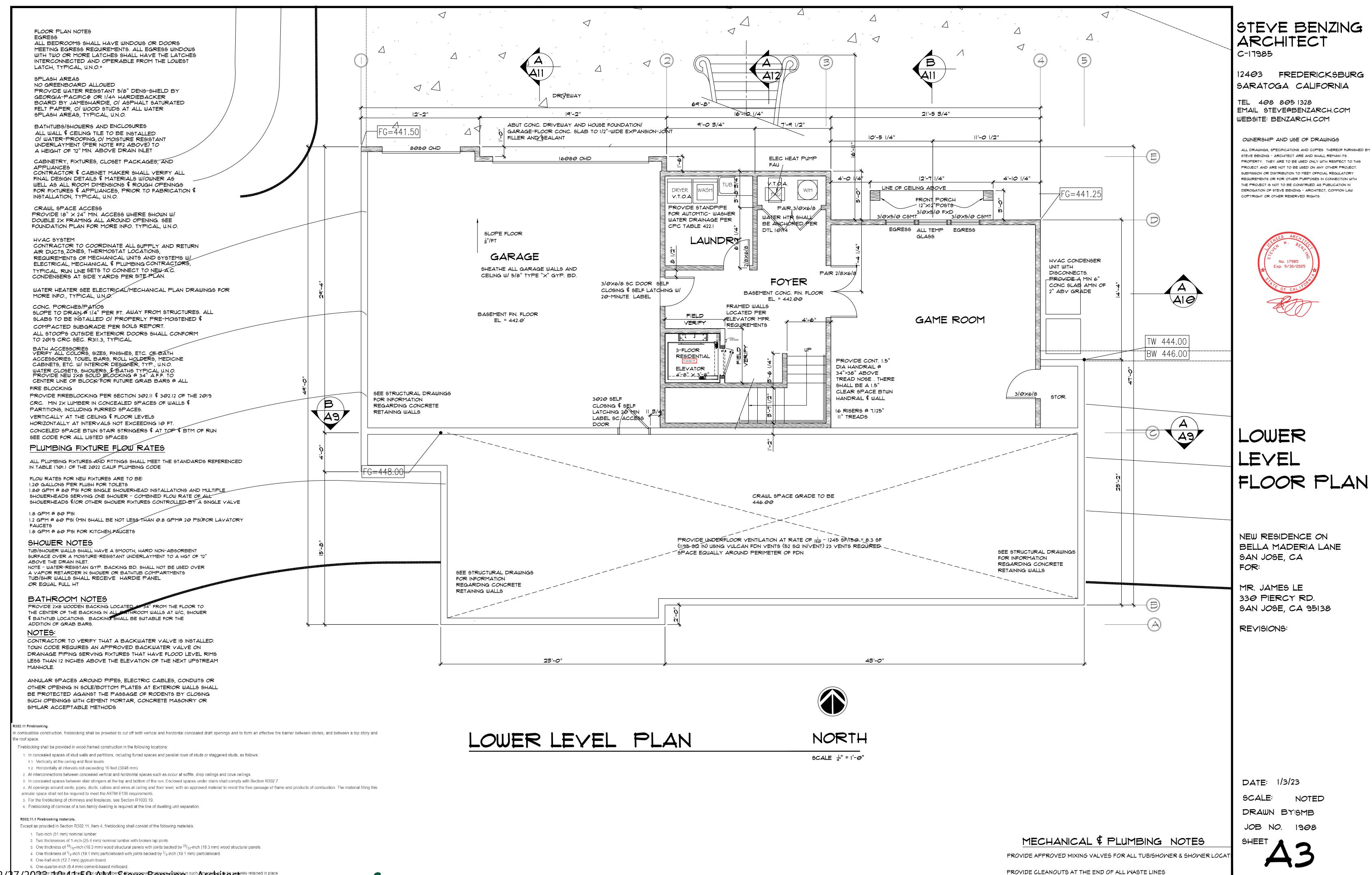
DATE: 1/3/23

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JOB NO. 1908

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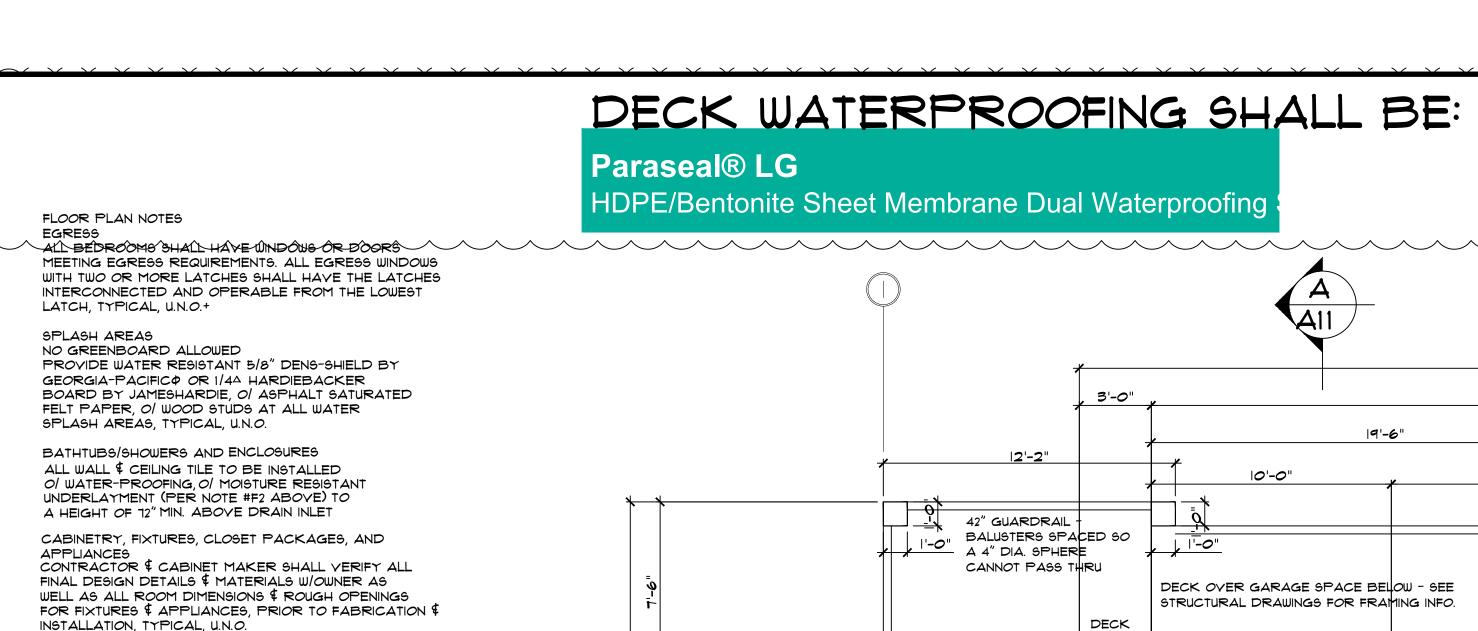
OF 15 SHTS



PROVIDE PRESSURE FELLE NONE OTHER STEELS THE BUILDING FOR T

12/27/20 BattSor blancate 4 mineral Gol Applies fiber of the approve Braterials in stalled in such Amanages in the sequely retained in place.

12/27/28 Cellulose insulation installed as tested in accordance with ASTIVE 119 of UL 263, by the specific application.



MECHANICAL \$ PLUMBING NOTES STEVE BENZING

PROVIDE APPROVED MIXING VALVES FOR ALL TUB/SHOWER & SHOWER L ARCHITECT

PROVIDE CLEANOUTS AT THE END OF ALL WASTE LINES PROVIDE PRESSURE RELIEF PIPING TO THE EXTERIOR OF THE BUILDING F

MATER HTR. TERMINATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL BE A MINIMUM FROM ANY QPENING INTO THE BUILDING. PER CMC 504.5

ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENII BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTAB AT THE TIME OF ROUGH INSTALLATIION OR DURING STORAGE ONT HE CO SITE & UNTIL FINAL STARTUP OF THE HEATING & COOLING EQUIPMENT

ATTIC FURNACE SHALL COMPLY WITH SECTION 904.10 OF THE CMC.

• PROVIDE SOLID FLOOPING NOT LESS THA 24" WIDE FROM THE SER

ENTRANCE OPENING TO THE FURNACE _SPECIEN A 30"X30" MIN LEVEL SERVICE SPACE IN FRONT OF THE

TUB/SHR WALLS SHALL

OR EQUAL FULL HT

TEMP GL SHOWER N T M

SHR W 3/8"

5 \$ P

5 \$ P

10'-9 1/4"

10'-0 1/2"

CLOSET

G. BEDROOM

EGRESS

610*410 XO TEMP GL

19'-9 1/2"

G. BATH

ENCL. W/ 24"-MIN.

SUINGING DOOR

RECEIVE HARDIE PANEL

11'-0 1/2" • PROVIDE A RECEPTACLE OUTLET AND LIGHT FIXTURE NEAR THE WITH A SWITCH CONTROLLING THE LIGHTING FIXTURE LOCATED AT ENTRANCE TO THE PASSAGEWAY

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MAIN LEVEL FLOOR

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

DRAWN BY:SMB

JOB NO.

2|-|| 3/4" | |7'-0 |/4 9'-6" හ'-IO" 8'-2" 10'-11 1/4" 1'-0" DOWN TO DRIVEWAY FIELD VERIFY LENGTHS OF RUNS: " TREAD 42" GUARDRAIL - BALUSTERS SPACED SO A 4" DIA. SPHERE CANNOT PASS THRU ROOF BELOW DECK ENTRY DECK FAUX BALCONY RAILING - 12' (3) 4/0×6/0 FIXED (2) 3/0×8/0 SC W/ LINE OF BALCONT ABOVE TEMP GL TEMP GL 2/0×6/0/tEMP. 1'-0" GL. SIDE/LITES 8/0-TALU ENTRY CASEDI ARCH OPENING. FLR-TO-CLG HEATNGLO MODEL TRUE 42 IFT FRAMED WALLS UP OPENING DIRECT-VENT GAS FIREPLACE - SEE LOCATED PER PROVIDE CONT. 1.5" ATTACHED TECHNICAL INFO - PROVIDE ELEVATOR MFR. DIA HANDRAIL @ NONCOMBUSTIBLE FLR HEARTH REQUIREMENTS 34"≯38" ABOVE TREAD NOSE . THERE VERIFY SHALL BE A 1.5" CLEAR SPACE BYWN GREAT ROOM HANDRAIL & WALL 3-FLOOR RESIDENTIAL 17.43 SQ. FT. 1'-0" ELEVATOR __4'-8"_x <u>3'-8"1</u> SEE UPPER FLOOR PLAN FOR STAIRWAR PROVIDE CONT SEE BASEMENT HANDRAIL, AND VULCAN SOFFIT , FLOOR PLAN FOR GUARDRAIL VENT FULL LENGTH STAIRWAY, -REQ'S OF DECK ABOVE. HANDRAIL, AND POWDER <u>GUARDRAIL RÉQ'S</u> 2/6×8/0 2/8×8/*0*

PLUMBING FIXTURE FLOW RATES

VERIFY ALL COLORS, SIZES, FINISHES, ETC. OF BATH

BROBROEL WELETZY SCHOWERBLOGEKANGSOTS #1 CAME FLINT.O.

ACCESSORIES, TOWEL BARS, ROLL HOLDERS, MEDICINE CABINETS, ETC. W/ INTERIOR DESIGNER, TYP., U.N.O.

CENTER LINE OF BLOCK FOR FUTURE GRAB BARS @ ALL

ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 1701.1 OF THE 2022 CALIF PLUMBING CODE

FLOW RATES FOR NEW FIXTURES ARE TO BE: 1.20 GALLONS PER FLUSH FOR TOILETS

1.80 GPM @ 80 PSI FOR SINGLE SHOWERHEAD INSTALLATIONS AND MULTIPLE SHOWERHEADS SERVING ONE SHOWER - COMBINED FLOW RATE OF ALL SHOWERHEADS \$/OR OTHER SHOWER FIXTURES CONTROLLED BY A SINGLE VALVE

1.2 GPM @ 60 P9I (MIN SHALL BE NOT LESS THAN 0.8 GPM@ 20 PSI)FOR LAVATORY FAUCETS 1.8 GPM @ 60 PSI FOR KITCHEN FAUCETS

SHOWER NOTES

CRAWL SPACE ACCESS

ATTIC ACCESS

22"×30" MIN. SIZE PER

PROVIDE 18" × 24" MIN. ACCESS WHERE SHOWN W/

FOUNDATION PLAN FOR MORE INFO. TYPICAL, U.N.O.

DOUBLE 2X FRAMING ALL AROUND OPENING. SEE

PROVIDE ACCESS OPENING LAREGE ENOUGH FOR

PROVIDE 30"X43" PULL DOWN ATTICE ACCESS STAIR AT

LOCATION INDICATED W/ MIN 30" CLEAR HEADROOM IN

THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING.

REMOVLA OF HYAC UNIT WHERE OCCURS.

PROVIDCE DBL 2X FRAMIN ALL AROUND OPG.

W/ PLYWD PATH \$ PLATFORM TO HVAC UNIT, WORK

LIGHT W/ SWITCH * RECEPTAVLE PER SEC 904.11, 2016

CONTRACTOR TO COORDINATE ALL SUPPLY AND RETURN

AIR DUCTS, ZONES, THERMOSTAT LOCATIONS, AND POWER

WATER HEATER SEE ELECTRICAL/MECHANICAL PLAN DRAWINGS FOR

SLOPE TO DRAIN @ 1/4" PER FT. AWAY FROM STRUCTURES. ALL

SLABS TO BE INSTALLED O/ PROPERLY PRE-MOISTENED \$

ALL STOOPS OUTSIDE EXTERIOR DOORS SHALL CONFORM

REQUIREMENTS OF MECHANICAL UNITS AND SYSTEMS W/

ELECTRICAL, MECHANICAL \$ PLUMBING CONTRACTORS TYPICAL RUN LINE SETS TO CONNECT TO NEW A.C.

CONDENSERS AT SIDE YARDS PER SITE PLAN.

COMPACTED SUBGRADE PER SOILS REPORT.

TO 2019 CRC SEC. R311.3, TYPICAL.

MORE INFO., TYPICAL, U.N.O.

TUB/SHOWER WALLS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE OVER A MOISTURE-RESISTANT UNDERLAYMENT TO A HGT OF 12" NOTE - WATER-RESISTAN GYP. BACKING BD. SHALL NOT BE USED OVER A VAPOR RETARDER IN SHOWER OR BATHTUB COMPARTMENTS TUB/SHR WALLS SHALL RECEIVE HARDIE PANEL OR EQUAL FULL HT

BATHROOM NOTES

PROVIDE 2X8 WOODEN BACKING LOCATED AT 34" FROM THE FLOOR TO THE CENTER OF THE BACKING IN ALL BATHROOM WALLS AT W/C, SHOWER MIBIATS/TUBLED EATIONDE BAROLKING CO/LIAAN DE MINITAS/LE LERRINHE ARBNIPIOPFUGRAB BARS.

DISHWASHER NOTE:

NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OR FOOD-WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER-AIR-GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHING MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL MARKING AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAINBOARD, WHICHEVER IS HIGHER.

CONTRACTOR TO VERIFY THAT A BACKWATER VALVE IS INSTALLED. TOWN CODE REQUIRES AN APPROVED BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVEL RIMS LESS THAN 12 INCHES ABOVE THE ELEVATION OF THE NEXT UPSTREAM MANHOLE.

ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENING IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR ACCEPTABLE METHODS

MAIN FLOOR PLAN

KITCHEN

CANT. EATING BAR

ISLAND PREP AREA

DW GD

8'-0"

22'-|| |/2"

5'-8 1/2"

FG=450.25

RANGE \$

4/0*4/0 XO

HOOD



SCALE 1'-0'

410×610 ×0

43'-2 1/2"

6'-7"

MAIN FLOOR

4/0%6/0 XO

5'-8"

6'-0 3/4"

EL. = 451.50

DINING

610×810 5.G.D.

23'-4 3/4"

66'-2"

5'-9 1/2"

12/17/2023 10:42:09 AM, Steve Benzing - Architect

FILE NO. 10706-17G R4

FG=450.25

FLOOR PLAN NOTES

ALL BEDROOMS SHALL HAVE WINDOWS OR DOORS MEETING EGRESS REQUIREMENTS. ALL EGRESS WINDOWS WITH TWO OR MORE LATCHES SHALL HAVE THE LATCHES INTERCONNECTED AND OPERABLE FROM THE LOWEST LATCH, TYPICAL, U.N.O.+

SPLASH AREAS

NO GREENBOARD ALLOWED PROVIDE WATER RESISTANT 5/8" DENS-SHIELD BY GEORGIA-PACIFICO OR 1/44 HARDIEBACKER BOARD BY JAMESHARDIE, Of ASPHALT SATURATED FELT PAPER, O/ WOOD STUDS AT ALL WATER SPLASH AREAS, TYPICAL, U.N.O.

BATHTUBS/SHOWERS AND ENCLOSURES

ALL WALL & CEILING TILE TO BE INSTALLED O/ WATER-PROOFING, O/ MOISTURE RESISTANT UNDERLAYMENT (PER NOTE #F2 ABOVE) TO A HEIGHT OF 72" MIN. ABOVE DRAIN INLET

CABINETRY, FIXTURES, CLOSET PACKAGES, AND

APPLIANCES CONTRACTOR \$ CABINET MAKER SHALL YERIFY ALL FINAL DESIGN DETAILS \$ MATERIALS W/OWNER AS WELL AS ALL ROOM DIMENSIONS \$ ROUGH OPENINGS FOR FIXTURES \$ APPLIANCES, PRIOR TO FABRICATION \$ INSTALLATION, TYPICAL, U.N.O.

CRAWL SPACE ACCESS PROVIDE 18" × 24" MIN. ACCESS WHERE SHOWN W/

DOUBLE 2X FRAMING ALL AROUND OPENING. SEE FOUNDATION PLAN FOR MORE INFO. TYPICAL, U.N.O.

22"×30" MIN. SIZE PER

PROVIDE ACCESS OPENING LAREGE ENOUGH FOR REMOVLA OF HYAC UNIT WHERE OCCURS. PROVIDE 30"X43" PULL DOWN ATTICE ACCESS STAIR AT LOCATION INDICATED W/ MIN 30" CLEAR HEADROOM IN THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING. PROVIDCE DBL 2X FRAMIN ALL AROUND OPG. W/ PLYWD PATH \$ PLATFORM TO HVAC UNIT, WORK LIGHT W/ SWITCH * RECEPTAYLE PER SEC 904.11, 2016

CONTRACTOR TO COORDINATE ALL SUPPLY AND RETURN AIR DUCTS, ZONES, THERMOSTAT LOCATIONS, AND POWER REQUIREMENTS OF MECHANICAL UNITS AND SYSTEMS W/ ELECTRICAL, MECHANICAL \$ PLUMBING CONTRACTORS, TYPICAL. RUN LINE SETS TO CONNECT TO NEW A.C. CONDENSERS AT SIDE YARDS PER SITE PLAN.

WATER HEATER SEE ELECTRICAL/MECHANICAL PLAN DRAWINGS FOR MORE INFO., TYPICAL, U.N.O.

CONC. PORCHES/PATIOS

SLOPE TO DRAIN @ 1/4" PER FT. AWAY FROM STRUCTURES. ALL SLABS TO BE INSTALLED O/ PROPERLY PRE-MOISTENED \$ COMPACTED SUBGRADE PER SOILS REPORT. ALL STOOPS OUTSIDE EXTERIOR DOORS SHALL CONFORM TO 2019 CRC SEC. R311.3, TYPICAL.

BATH ACCESSORIES VERIFY ALL COLORS, SIZES, FINISHES, ETC. OF BATH ACCESSORIES, TOWEL BARS, ROLL HOLDERS, MEDICINE CABINETS, ETC. W/ INTERIOR DESIGNER, TY PROVIDE NEW 2X8 SOLID BLOCKING @ 34" A.F.F. TO WATER CLOSETS, SHOWERS, \$ BATHS TYPICAL U.N.O. CENTER LINE OF BLOCK FOR FUTURE GRAB BARS @ ALL

PLUMBING FIXTURE FLOW RATES

ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 1701.1 OF THE 2022 CALIF PLUMBING CODE

FLOW RATES FOR NEW FIXTURES ARE TO BE:

1.20 GALLONS PER FLUSH FOR TOILETS 1.80 GPM @ 80 PSI FOR SINGLE SHOWERHEAD INSTALLATIONS AND MULTIPLE SHOWERHEADS SERVING ONE SHOWER - COMBINED FLOW RATE OF ALL SHOWERHEADS \$10R OTHER SHOWER FIXTURES CONTROLLED BY A SINGLE VALVE

1.2 GPM @ 60 PSI (MIN SHALL BE NOT LESS THAN 0.8 GPM@ 20 PSI)FOR LAVATORY

1.8 GPM @ 60 PSI FOR KITCHEN FAUCETS

SHOWER NOTES

OR EQUAL FULL HT

TUB/SHOWER WALLS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE OVER A MOISTURE-RESISTANT UNDERLAYMENT TO A HGT OF 12" NOTE - WATER-RESISTAN GYP. BACKING BD. SHALL NOT BE USED OVER A VAPOR RETARDER IN SHOWER OR BATHTUB COMPARTMENTS TUB/SHR WALLS SHALL RECEIVE HARDIE PANEL

BATHROOM NOTES

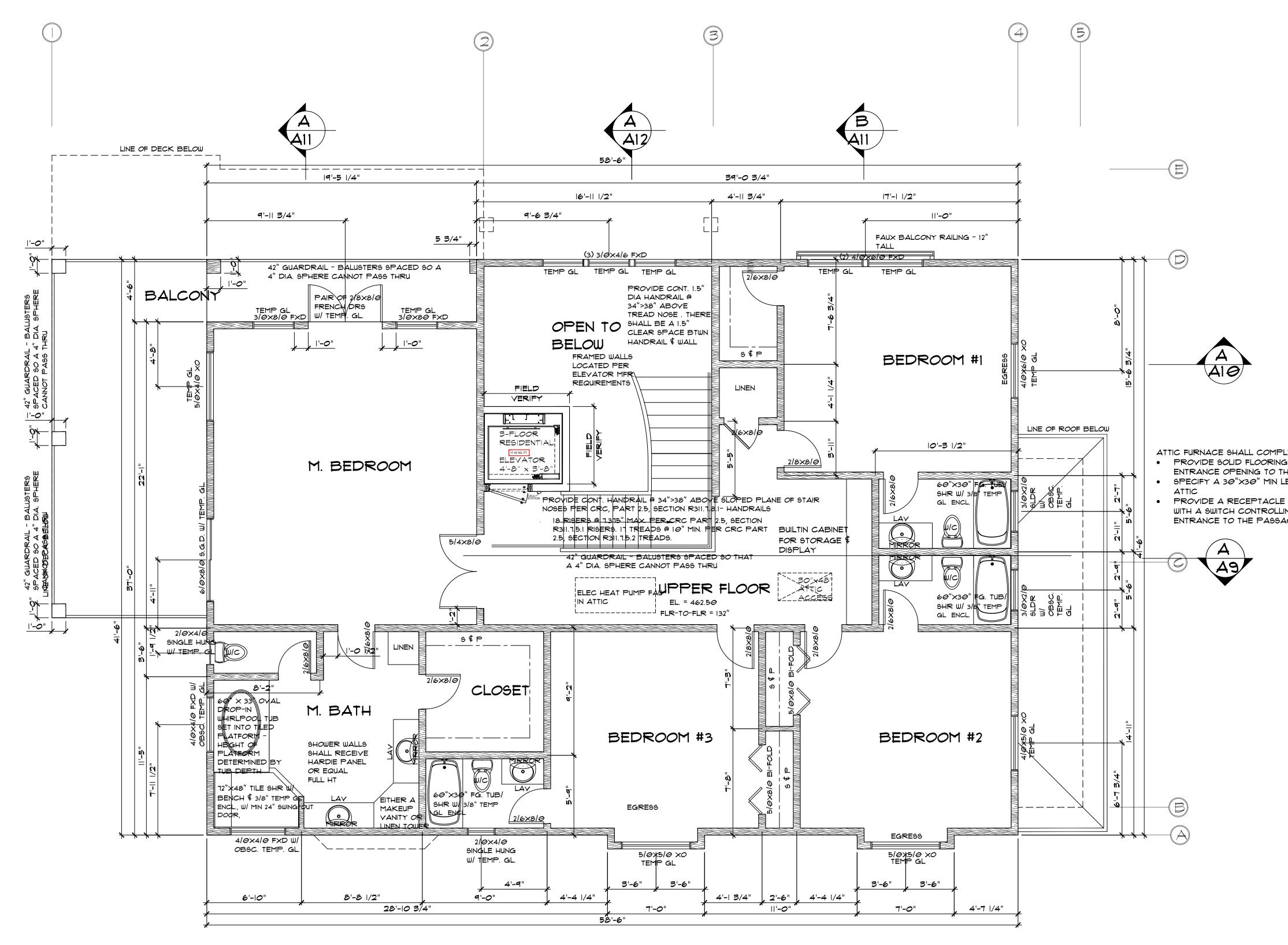
PROVIDE 2X8 WOODEN BACKING LOCATED AT 34" FROM THE FLOOR TO THE CENTER OF THE BACKING IN ALL BATHROOM WALLS AT W/C, SHOWER \$ BATHTUB LOCATIONS. BACKING SHALL BE SUITABLE FOR THE ADDITION OF GRAB BARS. MIN. 15" CLR. EA. SIDE OF W/C C/L AND MIN. 24" CLR. IN FRONT OF W/C

DISHWASHER NOTE:

NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OR FOOD-WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER-AIR-GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHING MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL MARKING AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAINBOARD, WHICHEVER IS HIGHER.

CONTRACTOR TO VERIFY THAT A BACKWATER VALVE IS INSTALLED. TOWN CODE REQUIRES AN APPROVED BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVEL RIMS LESS THAN 12 INCHES ABOVE THE ELEVATION OF THE NEXT UPSTREAM

ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENING IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR ACCEPTABLE METHODS





UPPER FLOOR PLAN

NORTH

SCALE 1'-0"

STEVE BENZING ARCHITECT

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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LEVEL FLOOR PLAN

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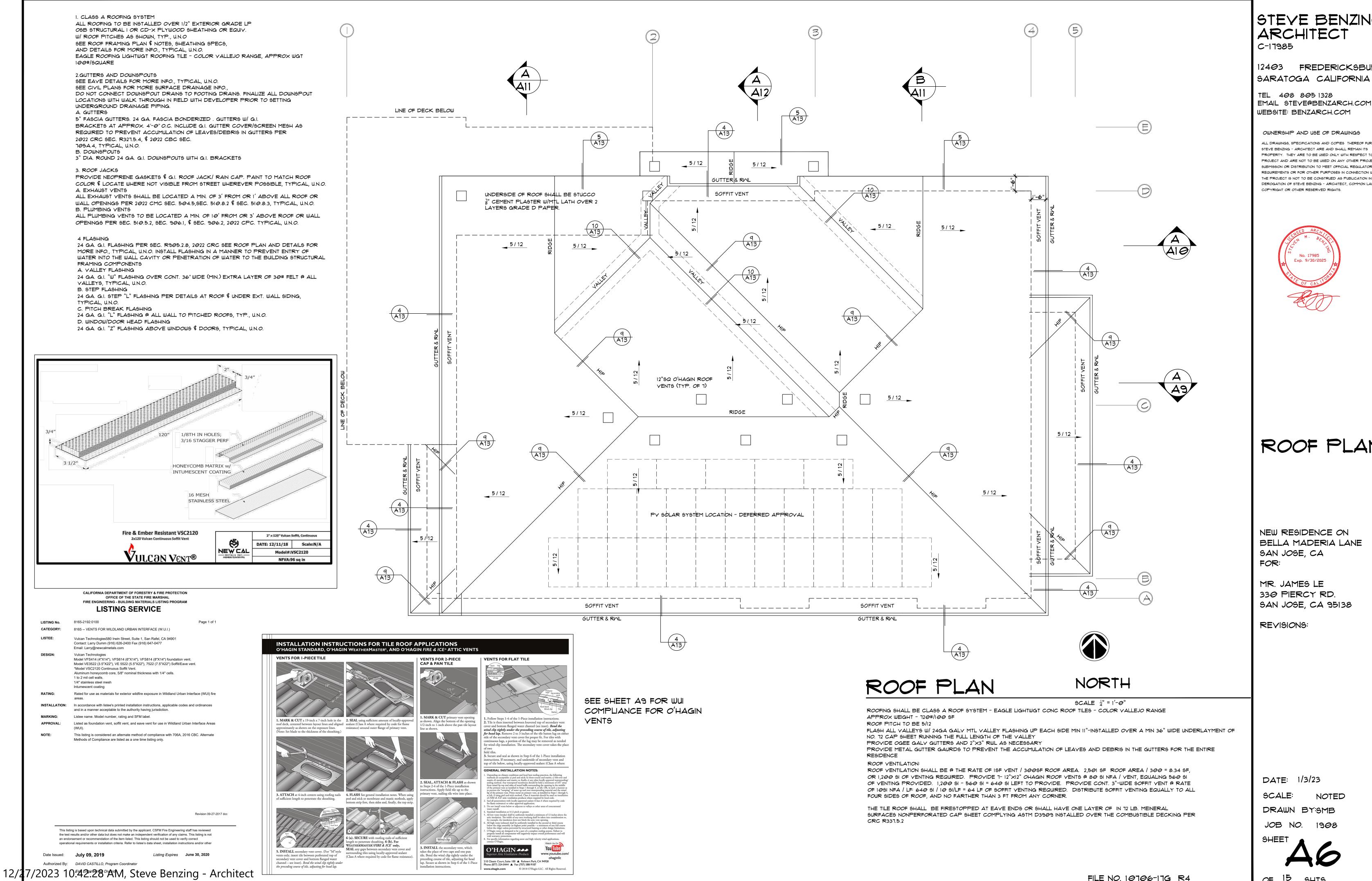
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12403 FREDERICKSBURG

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ROOF PLAN

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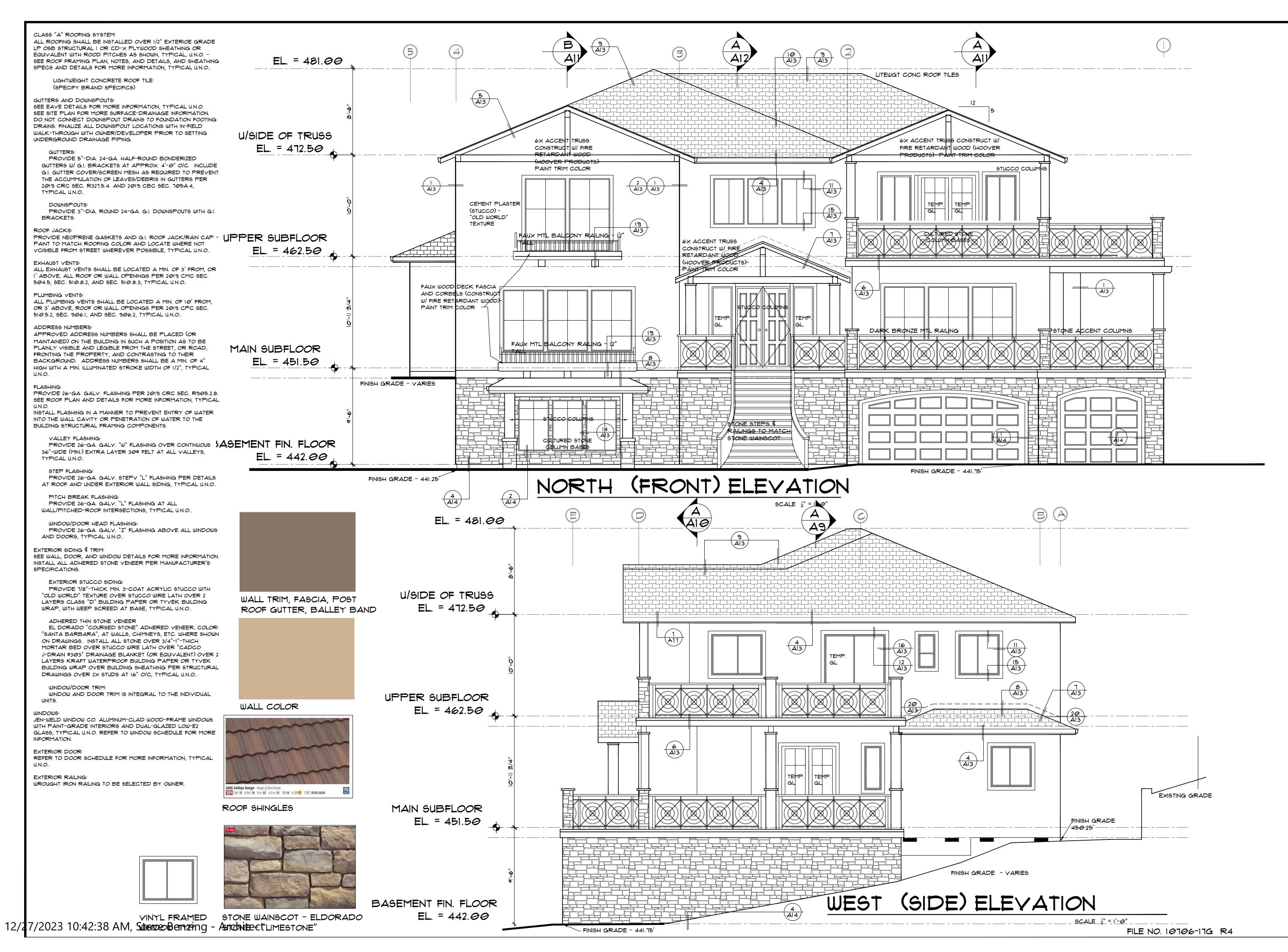
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C-17985

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TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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EXTERIOR ELEVATIONS

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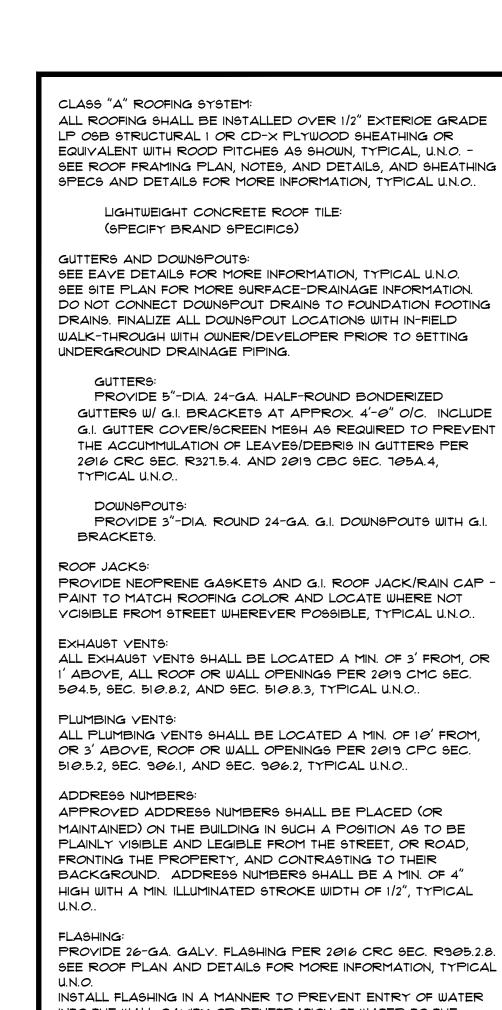
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INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE

VALLEY FLASHING: PROVIDE 26-GA. GALY. "W" FLASHING OVER CONTINUOUS 36"-WIDE (MIN.) EXTRA LAYER 30# FELT AT ALL VALLEYS, TYPICAL U.N.O..

BUILDING STRUCTURAL FRAMING COMPONENTS.

PITCH BREAK FLASHING:

PROVIDE 26-GA. GALY. STEPY "L" FLASHING PER DETAILS AT ROOF AND UNDER EXTERIOR WALL SIDING, TYPICAL U.N.O..

PROVIDE 26-GA. GALY. "L" FLASHING AT ALL WALL/PITCHED-ROOF INTERSECTIONS, TYPICAL U.N.O..

WINDOW/DOOR HEAD FLASHING: PROVIDE 26-GA. GALY. "Z" FLASHING ABOVE ALL WINDOWS AND DOORS, TYPICAL U.N.O..

EXTERIOR SIDING \$ TRIM: SEE WALL, DOOR, AND WINDOW DETAILS FOR MORE INFORMATION. INSTALL ALL ADHERED STONE VENEER PER MANUFACTURER'S SPECIFICATIONS.

EXTERIOR STUCCO SIDING: PROVIDE 1/8"-THICK MIN. 3-COAT ACRYLIC STUCCO WITH "OLD WORLD" TEXTURE OVER STUCCO WIRE LATH OVER 2 LAYERS CLASS "D" BUILDING PAPER OR TYVEK BUILDING WRAP, WITH WEEP SCREED AT BASE, TYPICAL U.N.O..

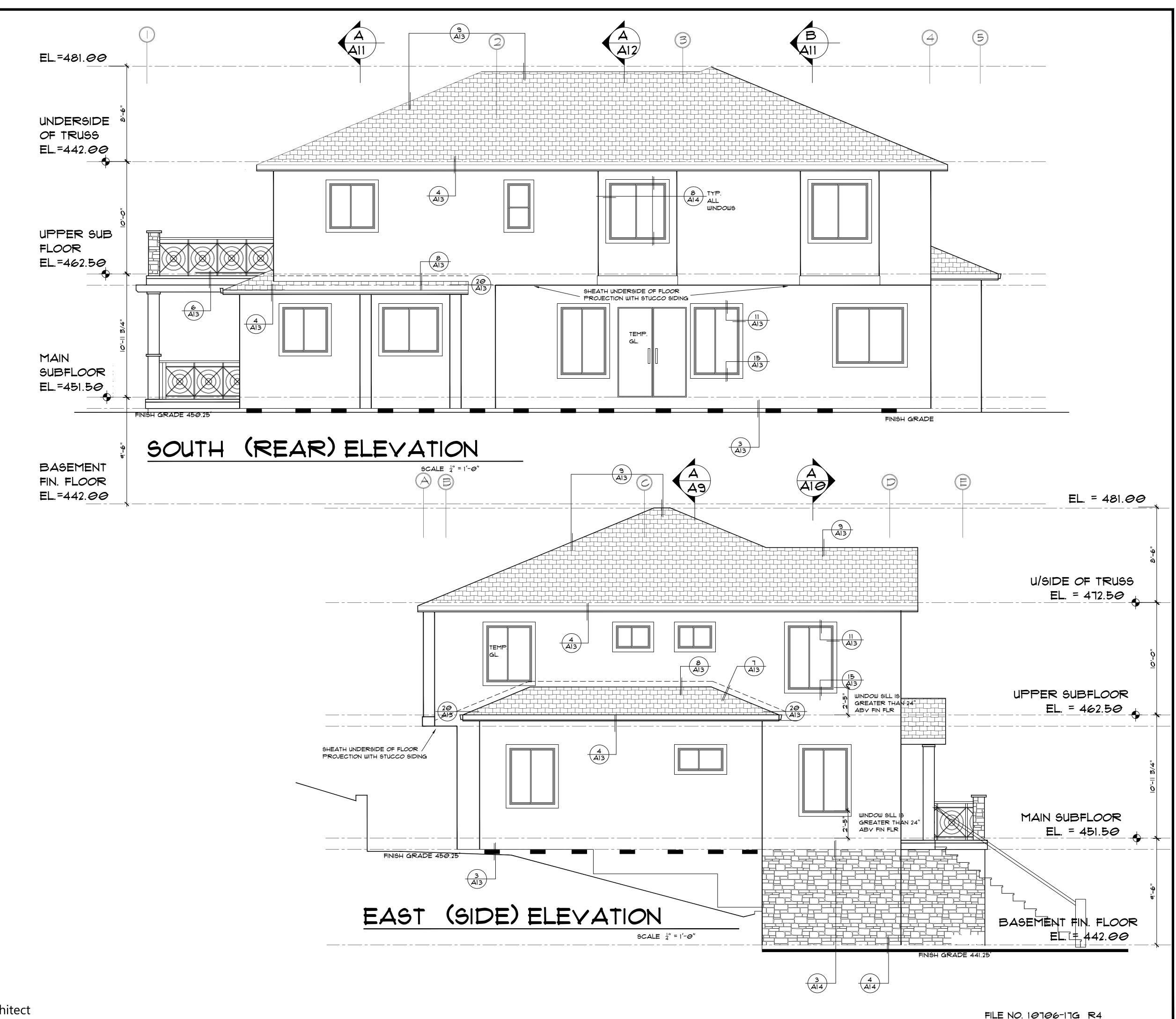
ADHERED THIN STONE VENEER EL DORADO "COURSED STONE" ADHERED VENEER, COLOR: "SANTA BARBARA", AT WALLS, CHIMNEYS, ETC. WHERE SHOWN ON DRAWINGS. INSTALL ALL STONE OVER 3/4"-1"-THICH MORTAR BED OVER STUCCO WIRE LATH OVER "CADCO J-DRAIN #303" DRAINAGE BLANKET (OR EQUIVALENT) OVER 2 LAYERS KRAFT WATERPROOF BUILDING PAPER OR TYVEK BUILDING WRAP OVER BUILDING SHEATHING PER STRUCTURAL DRAWINGS OVER 2X STUDS AT 16" O/C, TYPICAL U.N.O..

WINDOW/DOOR TRIM: WINDOW AND DOOR TRIM IS INTEGRAL TO THE INDIVIDUAL

JEN-WELD WINDOW CO. ALUMINUM-CLAD WOOD-FRAME WINDOWS WITH PAINT-GRADE INTERIORS AND DUAL-GLAZED LOW-E2 GLASS, TYPICAL U.N.O. REFER TO WINDOW SCHEDULE FOR MORE

EXTERIOR DOOR: REFER TO DOOR SCHEDULE FOR MORE INFORMATION, TYPICAL

EXTERIOR RAILING: WROUGHT IRON RAILING TO BE SELECTED BY OWNER.



STEVE BENZING ARCHITECT

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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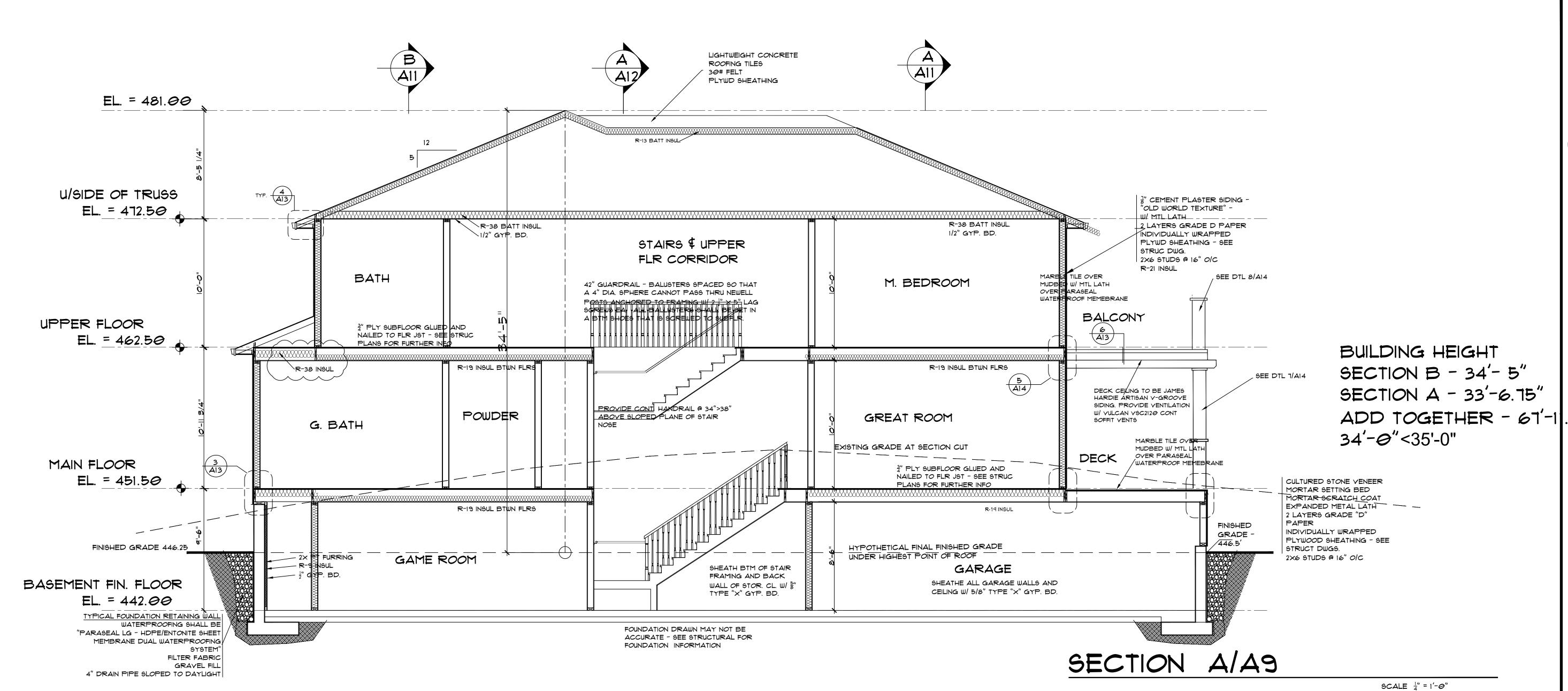
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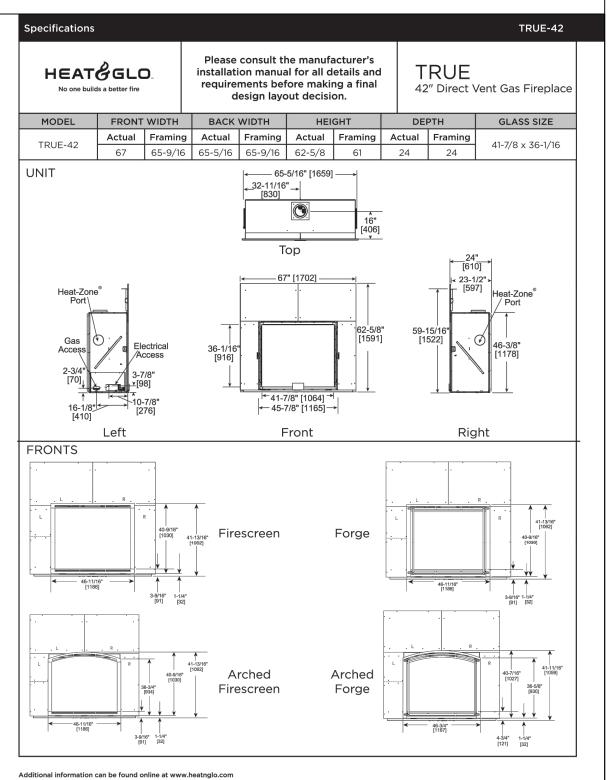
JOB NO.

12/27/2023 10:42:48 AM, Steve Benzing - Architect



Owner's Manual Care and Operation INSTALLER: Leave this manual with party responsible for use and operation. OWNER: Retain this manual for future reference. Contact your dealer with questions regarding installation, operation or service. **NOTICE: DO NOT** discard this manual! A WARNING: FIRE OR EXPLOSION HAZARD HEAT&GLO. Failure to follow safety warnings exactly could result in serious injury, death, or property damage. Models: TRUE-36G-IFT DO NOT store or use gasoline or other flam-TRUE-36TG-IFT mable vapors and liquids in the vicinity of this TRUE-36S-IFT or any other appliance. TRUE-42G-IFT What to do if you smell gas TRUE-42TG-IFT - **DO NOT** try to light any appliance. TRUE-42S-IFT - DO NOT touch any electrical switch. DO TRUE-50TG-IFT NOT use any phone in your building. TRUE-50S-IFT Leave the building immediately. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department. Installation and service must be performed by a qualified installer, service agency, or the This appliance may be installed as an OEM installation in manufactured home (USA DO NOT TOUCH GLASS UNTIL COOLED. only) or mobile home and must be installed in accordance with the manufacturer's instructions and the Manufactured Home Construction and Safety Standard, Title 24 A barrier designed to reduce the risk of CFR, Part 3280 in the United States, or the burns from the hot viewing glass is provided Standard for Installation in Mobile Homes, with this appliance and must be installed for CAN/CSA Z240 MH Series, in Canada. the protection of children and other at-risk This appliance is only for use with the type(s) of gas indicated on the rating plate. This appliance is not convertible for use with other In the Commonwealth of Massachusetts installation must be gases, unless a certified kit is used. performed by a licensed plumber or gas fitter. See appliance installation manual for additional Commonwealth of Massachusetts requirements.

12/27/2023 10:42:59 AM, Steve Benzing, TRUE Ar, Chitect. Manual · 2461-981 Rev. Q · 10/20





STEVE BENZING ARCHITECT

C-1798

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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BUILDING SECTION

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MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

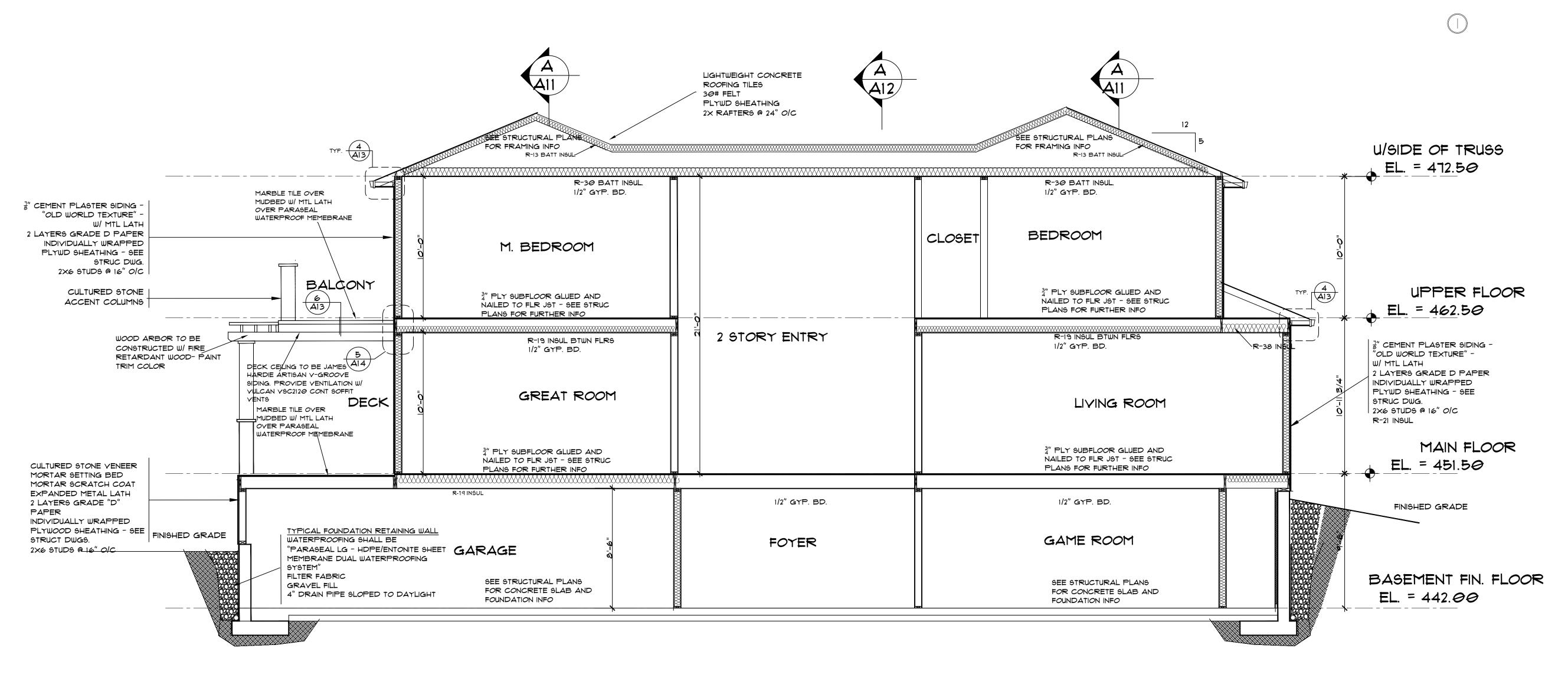
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A₂

OF 15 SHTS

FILE NO. 10706-17G R4



SECTION A/AIO

SCALE 1" = 1'-0"

STEVE BENZING ARCHITECT

C-1798

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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BUILDING

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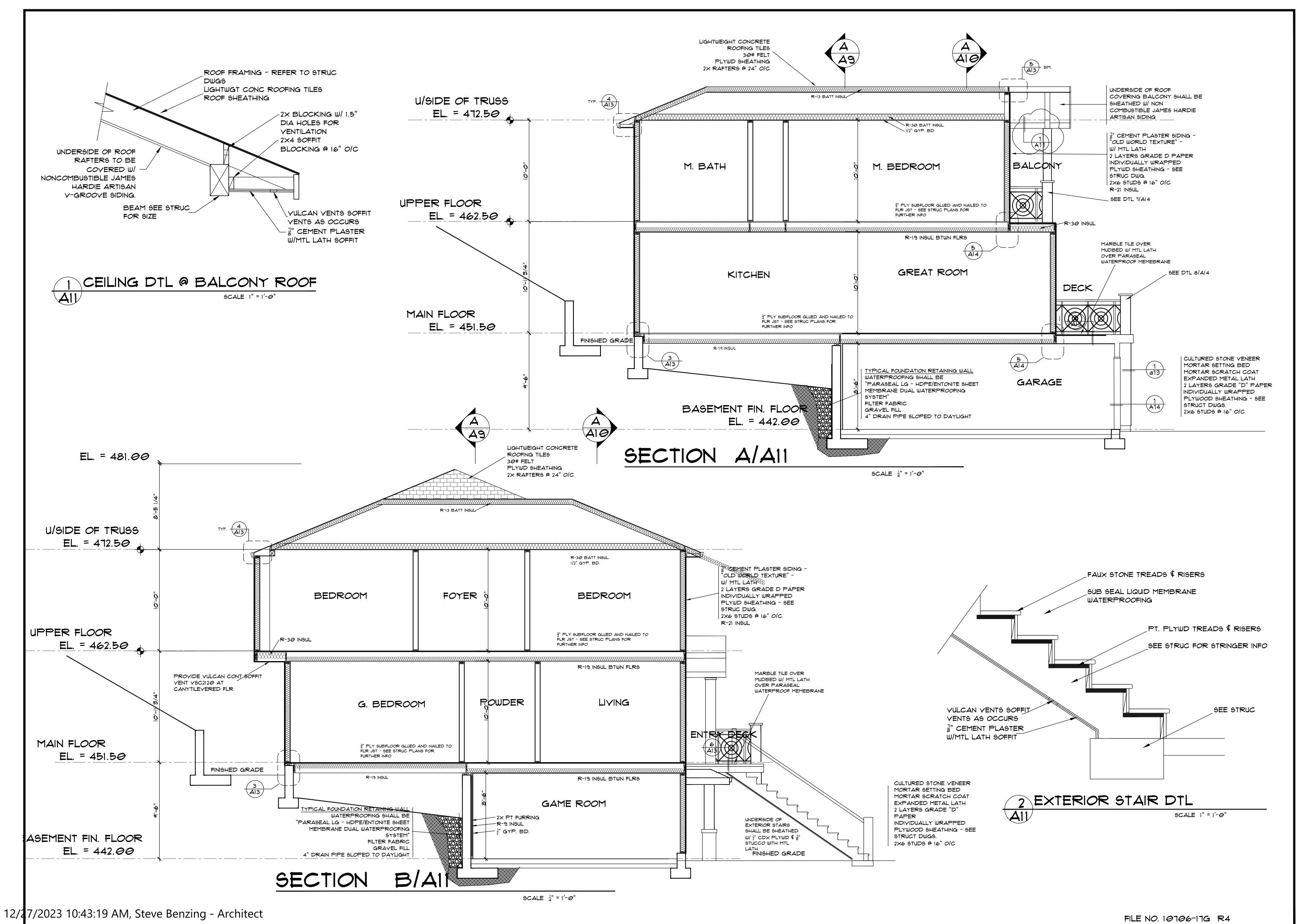
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BUILDING SECTIONS

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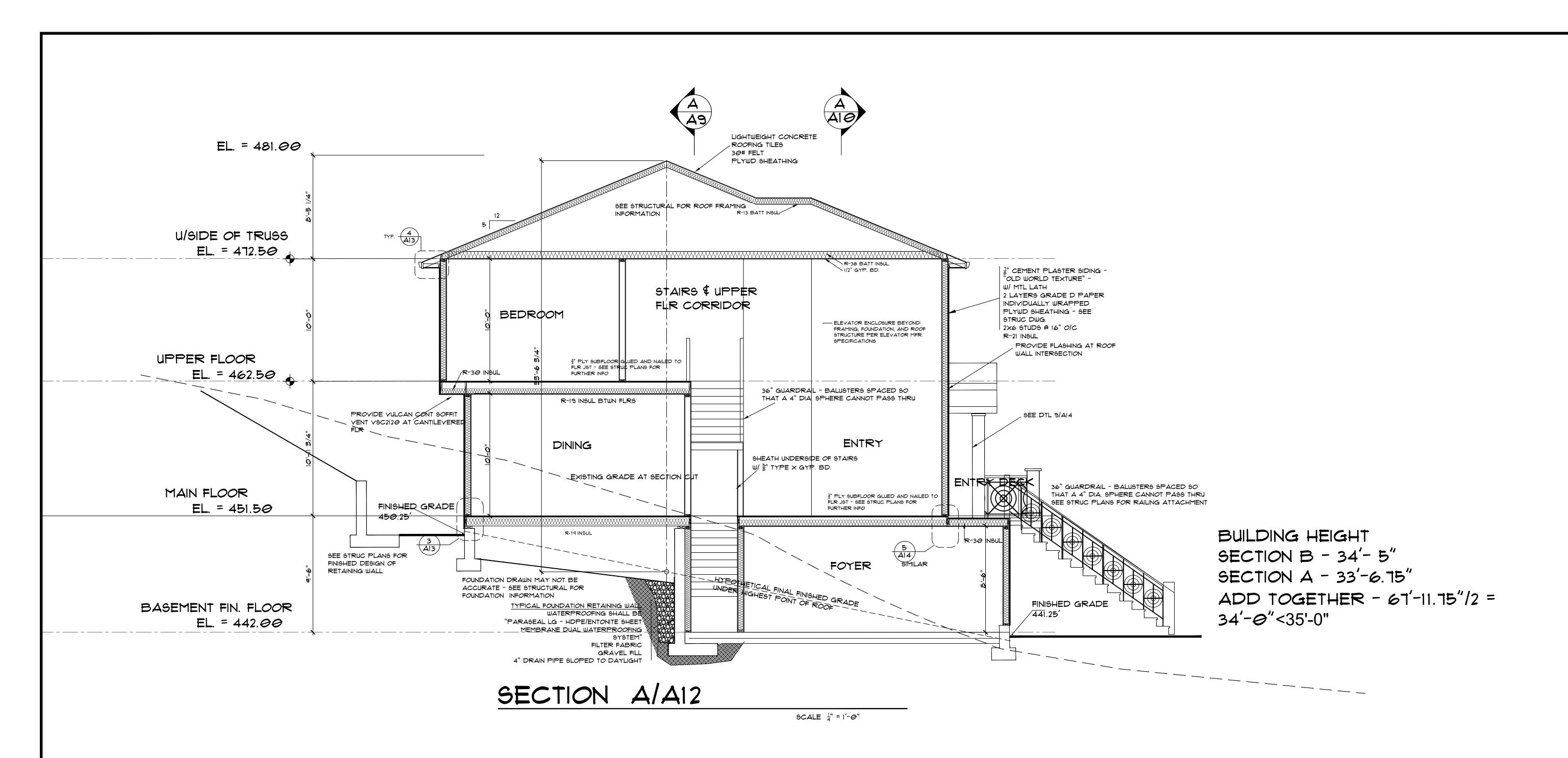
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12403 FREDERICKSBURG SARATOGA CALIFORNIA

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NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

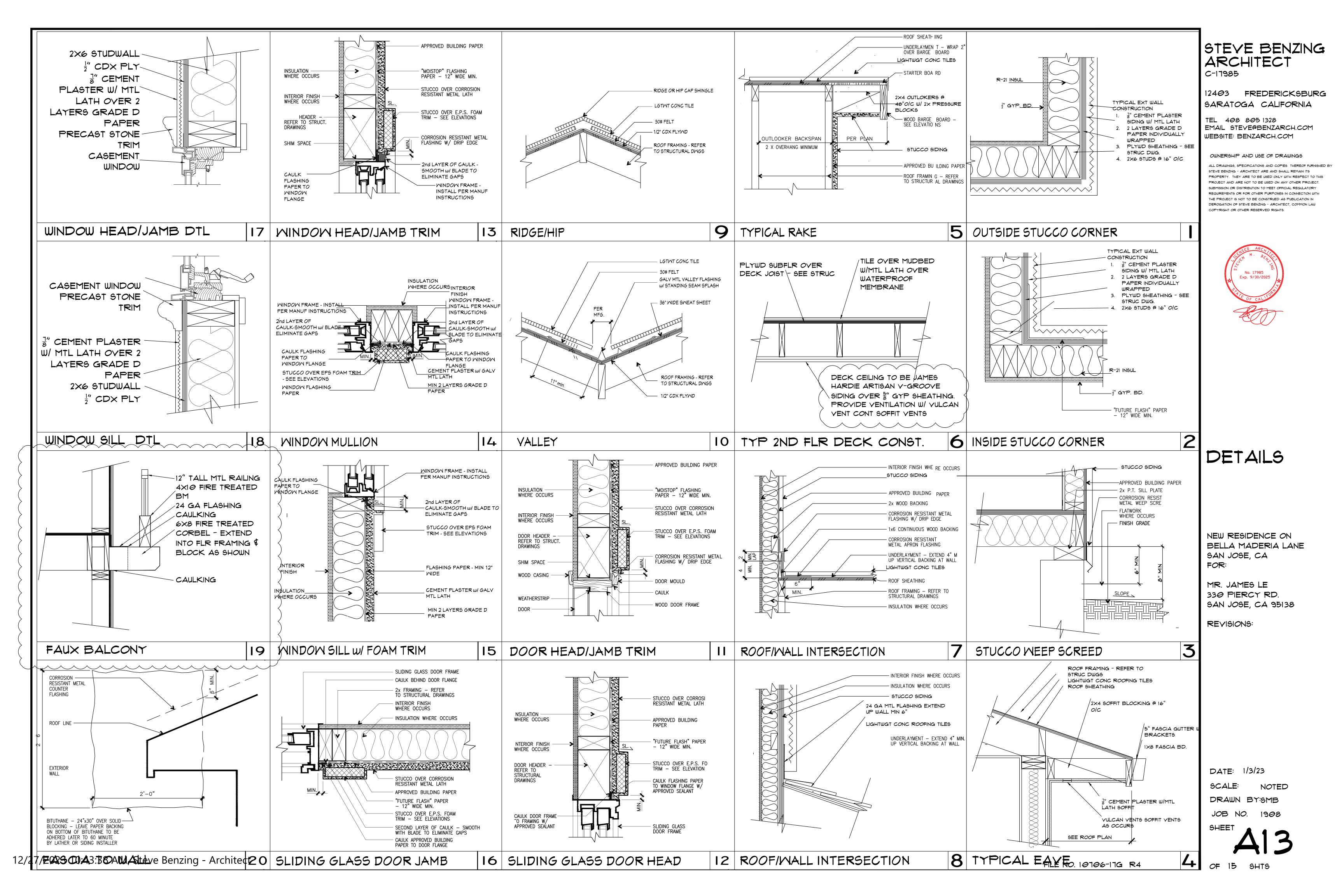
REVISIONS:

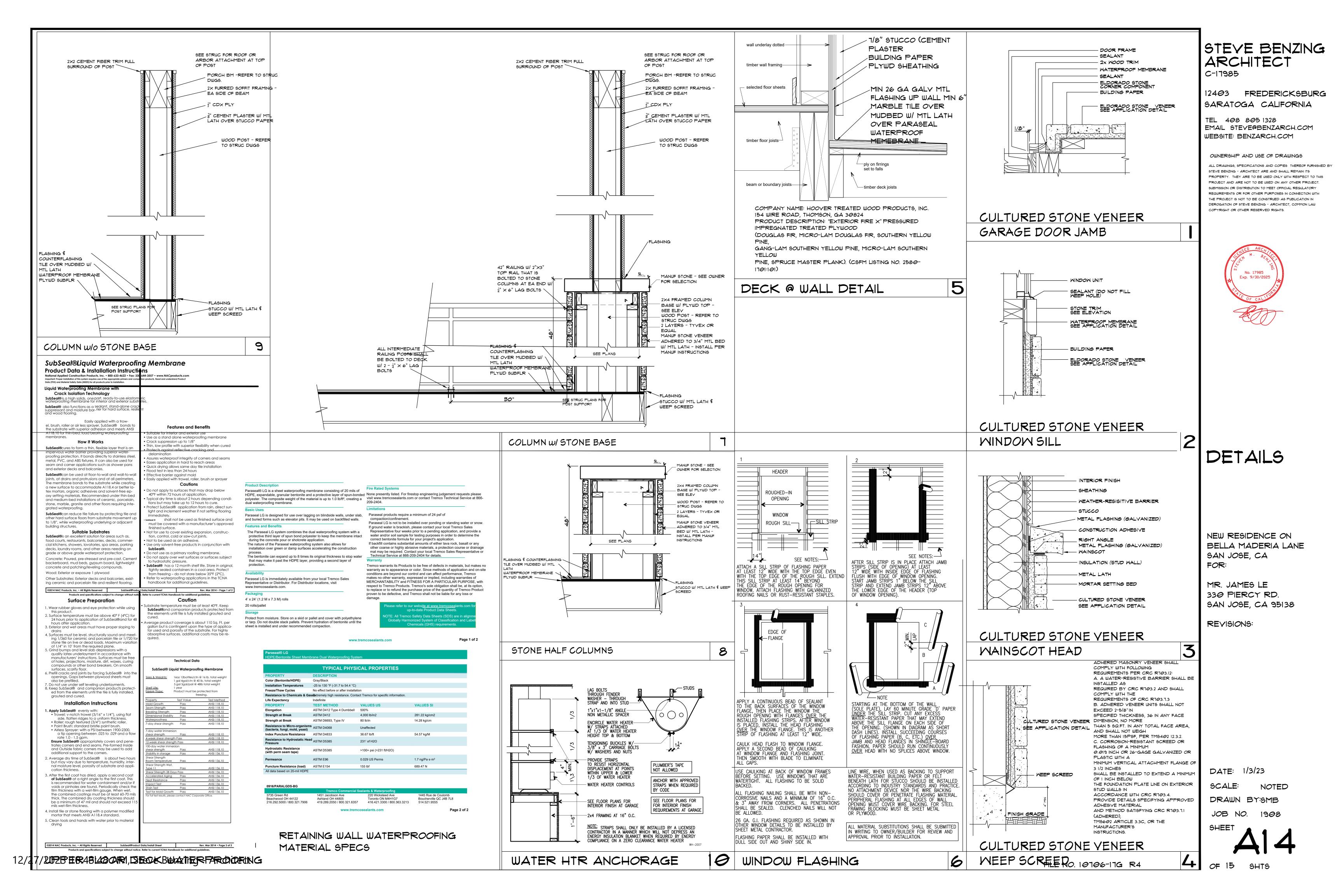
DATE: 1/3/23

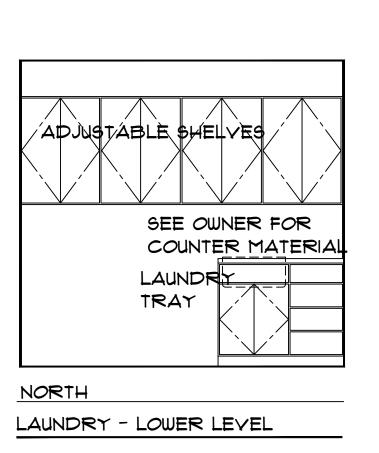
SCALE: NOTE
DRAWN BY:SMB

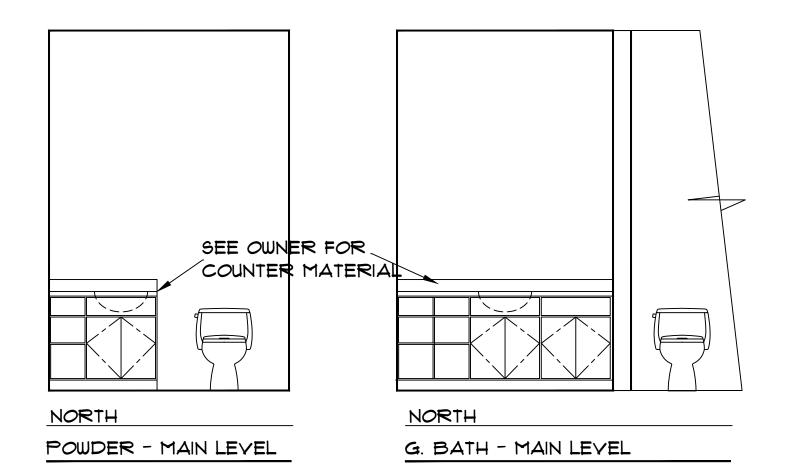
JOB NO. 1908

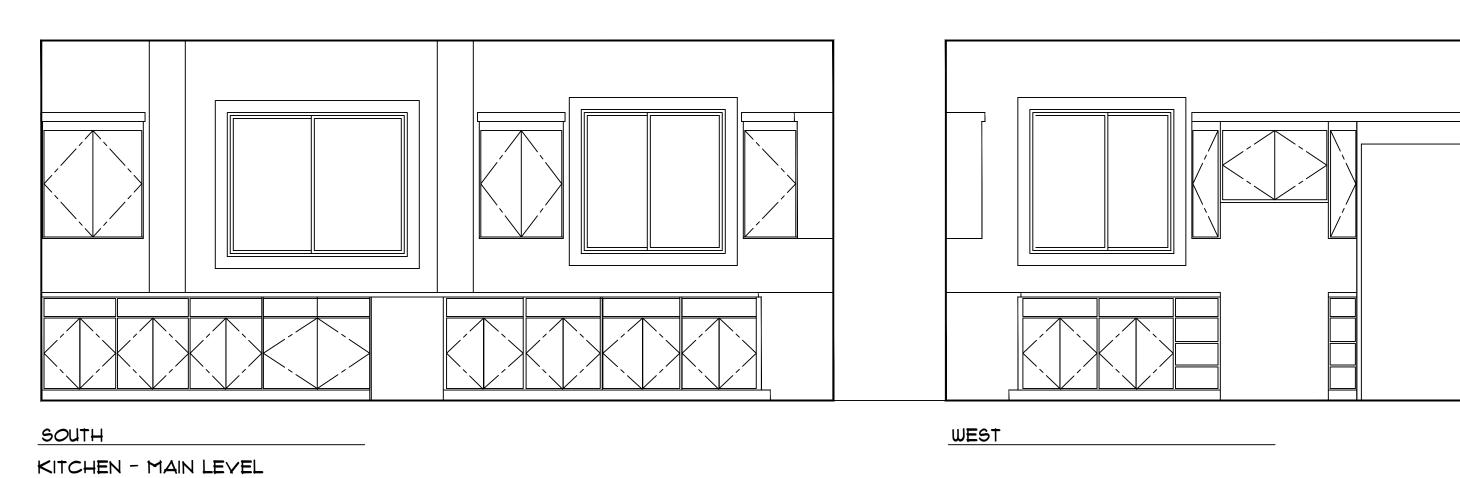
A12

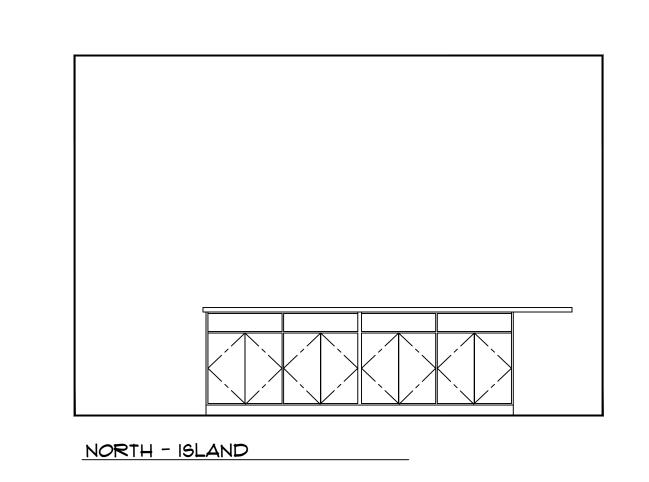


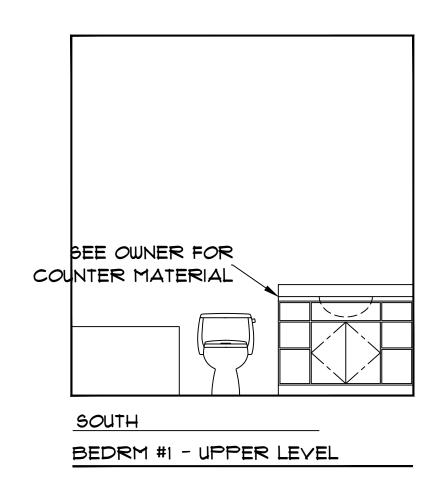


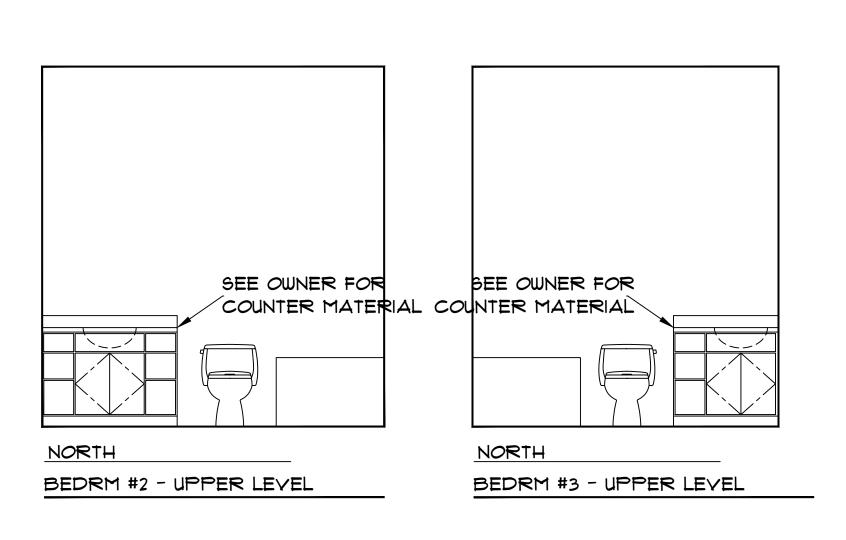


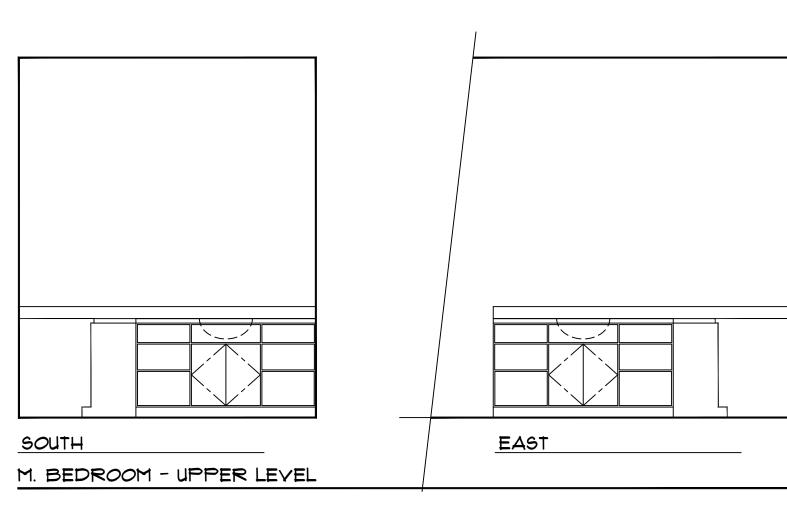












CABINET ELEVATIONS

SCALE 3" = 1'-0"

CABINET ELEVATIONS ARE FOR SCHEMATIC PURPOSES ONLY - SEE OWNERE FOR FINAL DECISIONS REGARDING ALL FINISH MATERIALS, CABINET HEIGHTS, DOOR \$ DRAWER ORGANIZATIONS.

STEVE BENZING ARCHITECT

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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CABINET ELEVATIONS

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

DRAWN BY:SMB

JOB NO. 1908

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 (Page 1 of 15) Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC.ribd22x GENERAL INFORMATION Project Name Residential Building Run Title Title 24 Analysis Project Location Bella Madera Lane 05 Standards Version 2022 City San Jose Zip code 95127 07 Software Version | CBECC-Res 2022.2.1 09 Front Orientation (deg/ Cardinal) 0 Climate Zone 4 Building Type | Single family 11 Number of Dwelling Units 13 Project Scope Newly Constructed Number of Bedrooms Number of Stories Addition Cond. Floor Area (ft²) 15 Existing Cond. Floor Area (ft²) n/a 17 Fenestration Average U-factor 0.31 Total Cond. Floor Area (ft²) 5852.75 Glazing Percentage (%) 15.40% ADU Bedroom Count n/a COMPLIANCE RESULTS 01 Building Complies with Computer Performance This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider. This building incorporates one or more Special Features shown below Registration Number: 423-P010086344A-000-000-0000000-0000 HERS Provider: CHEERS d with or related to CHEERS. Therefore, CHEERS is not Registration Date/Time: 05/20/2023 11:05 Report Generated: 2023-05-20 10:50:52 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Schema Version: rev 20220901 CF1R-PRF-01E CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD (Page 4 of 15) Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC.ribd22x **ENERGY USE INTENSITY** Standard Design (kBtu/ft² - yr) Proposed Design (kBtu/ft² - yr) Margin Percentage Compliance Margin (kBtu/ft2 - yr 9.3 6.93 2.37 25.48 Gross EUI¹ 5.53 3.05 44.85 Net EUI² 2.48 1. Gross EUI is Energy Use Total (not including PV) / Total Building Area. 2. Net EUI is Energy Use Total (including PV) / Total Building Area. REQUIRED PV SYSTEMS Tilt Array Angle Tilt: (x in DC System Size Inverter Eff. Module Type Array Type Solar Access (kWdc) (deg) Input (deg) 12) (%) (%) Degre Standard (14-17%) 4.85 REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. Northwest Energy Efficiency Alliance (NEEA) rated heat pump water heater; specific brand/model, or equivalent, must be installed Registration Number: 423-P010086344A-000-000-000000-0000

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Registration Number: 423-P010086344A-000-000-0000000-0000 Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS NOTICE: This document has been generated by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not responsible for, and cannot quarantee, the accuracy or completeness of the information contained in this document.

AND CASTICATION BEEN Provider: CHEERS Report Version: 2022.0.000 Report Version: 2022.0.000 Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 (Page 2 of 15) Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC.ribd22x

		Energy Design Ratings			Compliance Margins	
	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)	Source Energy (EDR1)	Efficiency ¹ EDR (EDR2efficiency)	Total ² EDR (EDR2total)
Standard Design	36.7	41.4	27.7	91		
Proposed Design	27.7	41.3	27.1	9	0.1	0.6

Standard Design PV Capacity: 4.08 kWdc

²Total EDR includes efficiency and demand response measures such as photovoltaic (PV) system and batteries ³Building complies when source energy, efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not ument. Registration Number: 423-P010086344A-000-000-0000000-0000 Registration Date/Time: 05/20/2023 11:05 CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-20 10:50:52

Schema Version: rev 20220901

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 (Page 5 of 15) Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC.ribd22x

HERS FEATURE SUMMARY The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry Indoor air quality ventilation Kitchen range hood Minimum Airflow Verified SEER/SEER2 Verified Refrigerant Charge Fan Efficacy Watts/CFM Verified HSPF Verified heat pump rated heating capacity Duct leakage testing

BUILDING - FEATURES INFORMATION 03 07 Number of Dwelling Number of Ventilation Number of Water Number of Zones onditioned Floor Area (ft² Units Cooling Systems Heating Systems Residential Building 5852.75

01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft ²)	Avg. Ceiling Height	Water Heating System 1	Status
First Floor	Conditioned	HVAC System1	971.5	8.5	DHW Sys 1	New
Second Floor	Conditioned	HVAC System1	2528.25	10	DHW Sys 1	New
Third Floor	Conditioned	HVAC System1	2353	10	DHW Sys 1	New

OFAQUE SURFACES		100	the fundamental and the fu		110			
01	02	03	04	05	06	07	08	
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)	
North Wall	First Floor	R-21 Wall	0	Front	325.6	45	90	
North Wall (Concrete)	First Floor	8 Concrete Wall w/R-9	0	Front	38.3	0	90	_
		r regueres rever	2 8 2		2001 10 10			

Registration Number: 423-P010086344A-000-000-000000-0000 Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Calculation Date/Time: 2023-05-20T10:49:44-07:00 (Page 8 of 15) Project Name: Residential Building Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC ribd22x

alculation Des	cription. Title	24 Allalysis	input File Name: LeJameskesidencekevc.ribd22x										
NESTRATION /	GLAZING												
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Туре	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft ²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Window 5	Window	East Wall 2	Left	90			1	52	0.31	NFRC	0.25	NFRC	Bug Screen
Window 6	Window	South Wall 2	Back	180			1	74	0.31	NFRC	0.25	NFRC	Bug Screen
Window 7	Window	West Wall 2	Right	270	A		1	84	0.31	NFRC	0.25	NFRC	Bug Screen
Window 8	Window	North Wall 3	Front	0	1		1	179.2	0.31	NFRC	0.25	NFRC	Bug Screen
Window 9	Window	East Wall 3	Left	90	71		1	56	0.31	NFRC	0.25	NFRC	Bug Screen

OPAQUE DOORS			
01	02	03	04
Name	Side of Building	Area (ft ²)	U-factor
Door 2	North Wall 2	40	0.5
Door	Interior Surface Wall	20	0.5

B FLOORS													
01	02	03	04	05	06	07	08						
Name	Zone	Area (ft ²)	Perimeter (ft)	Edge Insul. R-value and Depth	Edge Insul. R-value and Depth	Carpeted Fraction	Heated						
Slab	First Floor	971.5	108.3	none	0	80%	No						
Slab 2	Garage	882	120.6	none	0	0%	No						

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC.ribd22x

Energy Use	Standard Design Source Energy (EDR1) (kBtu/ft ² -yr)	Standard Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Proposed Design Source Energy (EDR1) (kBtu/ft ² -yr)	Proposed Design TDV Energy (EDR2) (kTDV/ft ² -yr)	Compliance Margin (EDR1)	Compliance Margin (EDR2)
Space Heating	3.46	15.16	2	15.5	1.46	-0.34
Space Cooling	0.24	13.37	0.25	15.35	-0.01	-1.98
IAQ Ventilation	0.26	2.75	0.26	2.75	0	0
Water Heating	0.61	6.62	0.34	4.25	0.27	2.37
Self Utilization/Flexibility Credit				0		0
Efficiency Compliance Total	4.57	37.9	2.85	37.85	1.72	0.05
Photovoltaics	-0.61	-20.6	-0.63	-21.55		
Battery		1 11	0	0		
Flexibility						
Indoor Lighting	0.47	4.58	0.47	4.58		
Appl. & Cooking	1.25	8.66	1.26	8.68		
Plug Loads	1.25	12.98	1.25	12.98		
Outdoor Lighting	0.13	1.16	0.13	1.16		
TOTAL COMPLIANCE	7.06	44.68	5.33	43.7		

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 (Page 6 of 15)

OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft ²)	Window and Door Area (ft2)	Tilt (deg)
East Wall	First Floor	R-21 Wall	90	Left	164.3	0	90
East Wall (Concrete)	First Floor	8 Concrete Wall w/R-9	90	Left	58	0	90
South Wall	Second Floor	R-21 Wall	180	Back	641.6	156	90
Southwest Wall	Second Floor	R-21 Wall	225	n/a	14.1	0	90
West Wall	Second Floor	R-21 Wall	270	Right	415	87.2	90
North Wall 2	Second Floor	R-21 Wall	0	Front	661.6	208	90
East Wall 2	Second Floor	R-21 Wall	90	Left	415	52	90
Southeast Wall	Second Floor	R-21 Wall	135	n/a	14.1	0	90
South Wall 2	Third Floor	R-21 Wall	180	Back	585	74	90
West Wall 2	Third Floor	R-21 Wall	270	Right	435	84	90
North Wall 3	Third Floor	R-21 Wall	0	Front	585	179.2	90
East Wall 3	Third Floor	R-21 Wall	90	Left	435	56	90
Interior Surface Wall (Co	First Floor	8 Concrete Wall w/R-91	n/a	n/a	369.8	0	n/a
Interior Surface Wall	First Floor>>Garage	R-21 Wall1	n/a	n/a	228	20	n/a
Roof (Slope 5/12)	Second Floor	R-30 Roof Attic+IntR-13	n/a	n/a	273.25	n/a	n/a
Roof (Slope 5/12) 2	Third Floor	R-30 Roof Attic+IntR-13	n/a	n/a	2353	n/a	n/a
Raised Floor	Third Floor	R-19 Floor No Crawlspace	n/a	n/a	98	n/a	n/a
Raised Floor (With Crawls	Second Floor	R-19 Floor Crawlspace	n/a	n/a	1219.75	n/a	n/a
Interior Surface Floor	Second Floor	R-0 Floor No Crawlspace	n/a	n/a	881.5	n/a	n/a
Interior Surface Floor 2	Second Floor	R-30 Floor No Crawlspace	n/a	n/a	427	n/a	n/a
Interior Surface Floor 3	Third Floor	R-0 Floor No Crawlspace	n/a	n/a	2255	n/a	n/a
South Wall 3	Garage	R-0 Wall	180	Back	260.7	0	90
West Wall 3	Garage	R-0 Wall	270	Right	249.3	0	90
North Wall 4	Garage	R-0 Wall	0	Front	266.3	0	90

registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

OPAQUE SURFACE CONSTRUCTIONS

Project Name: Residential Building Calculation Date/Time: 2023-05-20T10:49:44-07:00 Calculation Description: Title 24 Analysis Input File Name: LeJamesResidenceRevC.ribd22x

330 PIERCY RD. SAN JOSE, CA 95138 CF1R-PRF-01E (Page 9 of 15)

REVISIONS:

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JOB NO.

Interior / Exterior Total Cavity Construction Name Surface Type Construction Type Continuous Assembly Layers R-value R-value Inside Finish: Gypsum Board R-0 Wall **Exterior Walls** Wood Framed Wall 2x4@16in.O.C. None / None Cavity / Frame: no insul. / 2x4 Exterior Finish: 3 Coat Stucco Inside Finish: Gypsum Board R-21 R-21 Wall 2x6@16in.O.C. 0.069 Cavity / Frame: R-21 / 2x6 Exterior Walls Wood Framed Wall None / None Exterior Finish: 3 Coat Stucco Inside Finish: Gypsum Board Insulation/Furring: R-9 / 1.5in. wd Concrete / ICF 8 Concrete Wall w/R-9 Mass Layer: 8 in. Concrete Exterior Finish: 3 Coat Stucco Roofing: 5 PSF (Normal Gravel) Roof Deck: Wood R-0 Roof No Attic Cathedral Ceiling 2x10@ 24 in. O. C. None / None 0.482 Siding/sheathing/decking Cavity / Frame: no insul. / 2x10 Inside Finish: Gypsum Board Roofing: 5 PSF (Normal Gravel) Roof Deck: Wood Wood Framed R-30 R-30 Roof No Attic Cathedral Ceilings 2x10 @ 24 in. O. C. None / None 0.035 Siding/sheathing/decking Cavity / Frame: R-30 / 2x10 Inside Finish: Gypsum Board Inside Finish: Gypsum Board Insulation/Furring: R-9 / 1.5in. wd Concrete / ICF / n/a 9/None 0.102 8 Concrete Wall w/R-91 Interior Walls Mass Layer: 8 in. Concrete Other Side Finish: Gypsum Board Inside Finish: Gypsum Board R-21 Wall1 Interior Walls Wood Framed Wall 2x6 @ 16 in. O. C. R-21 None / None 0.064 Cavity / Frame: R-21 / 2x6 Other Side Finish: Gypsum Board

Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS (CHEERS) using information uploaded by third parties not affiliated with or related to CHEERS. Therefore, CHEERS is not Registration Number: 423-P010086344A-000-000-0000000-0000 VOTICE: This document has been generated by ConSol Home Energy Efficiency Rating System Services, Inc esponsible for, and cannot guarantee, the accuracy or completeness of the information contained in this do CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Generated: 2023-05-20 10:50:52 Report Version: 2022.0.000 Schema Version: rev 20220901

STEVE BENZING ARCHITECT

(Page 3 of 15)

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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ENERGY COMPLIANCE

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA

MR. JAMES LE

01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
Attic RoofSecond Floor	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-13	None / 0	0.072	Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 insul.
Attic RoofThird Floor	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-13	None / 0	0.072	Roofing: 10 PSF (RoofTileAirGap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 insul.
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x6 @ 16 in. O. C.	R-19	None / None	0.05	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6
R-30 Roof Attic+IntR-13	Ceilings (below attic)	Wood Framed Ceiling	2x4 @ 24 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-20.9 insul. Cavity / Frame: R-9.1 / 2x4 Inside Finish: Gypsum Board
R-19 Floor No Crawlspace	Exterior Floors	Wood Framed Floor	2x6 @ 16 in. O. C.	R-19	None / None	0.052	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6
R-0 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x12 @ 16 in. O. C.	R-0	None / None	0.196	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Board

CERTIFICATE OF COI		INTIAL PERFORINA	INCE COIVIP	LIAIVEE IV	ETHOD						CF1R-PRF-																		
Project Name: Resid	356								-05-20T10:49:44-07		(Page 13 of																		
Calculation Descrip	tion: Title 24 Analys	sis				Input File	Name: Le	eJames Res	idenceRevC.ribd22	×																			
HVAC - DISTRIBUTION	SYSTEMS							1000																					
01	02	03	04	05	06	07	08	09	10	11	12																		
27	22	20 D 20	Duct Ins	. R-value	Duct L	ocation	Surfac	e Area	53 55	2 8 9	022230 020																		
Name	Туре	Design Type	Supply	Return	Supply	Return	Supply	Return	Bypass Duct	Duct Leakage	HERS Verifica																		
Air Distribution System 1	Unconditioned crawl space	Non-Verified	R-6	R-6	Crawl Space	Crawl Space	n/a	n/a	No Bypass Duct	Sealed and Tested	Air Distributi System 1-hers																		
HVAC DISTRIBUTION	- HERS VERIFICATION							7		~																			
01	02	03	0)4	C)5	0	06	07	08	09																		
Name	Duct Leakage Verification	03 Duct Leakage Target (%)	Duct Leakage		15 NOT HERE	Verified Duct Location																		ed Duct sign	Buried	l Ducts	Deeply Buried Ducts	Low-leakage Air Handler	Low Leakag Ducts Entirel Conditione Space
Air Distribution System 1-hers-dist	Yes	5.0	Not Re	equired	Not Re	equired	Not Re	equired	Credit not taken	Not Required	No																		
HVAC - FAN SYSTEMS	3 (3)										te e																		
TIVAC - TAIN STSTEMS	01			02					03		04																		
	Name			Тур	e			Fan Pow	ver (Watts/CFM)		Name																		
	HVAC Fan 1			HVAC	Fan		LA		0.43	HVACI	Fan 1-hers-fan																		
HVAC FAN SYSTEMS -	HERS VERIFICATION				-				=																				
	01		1000		C)2		1		03																			
	Name		-1	N	erified Far	Watt Drav	v		Requi	red Fan Efficacy (Watt	s/CFM)																		
	HVAC Fan 1-hers-fan		4		Reg	980046		-	0.90	0.43	S 8																		

Registration Number: 423-P010086344A-000-000-0000000-0000 Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-20 10:50:52

Schema Version: rev 20220901

Report Generated: 2023-05-20 10:50:52

Calculation Descri								le Name: Le.						
01	C	2	03			04		05		06	07		08	
Construction Nar	ne Surfac	е Туре	Construction	on Type	F	raming		Total Cavity R-value	Cont	/ Exterior inuous value	U-factor	Asser	mbly Layers	
R-30 Floor No Crawlspace	Interio	r Floors	Wood Fram	ed Floor	2x10 @	9 16 in. O. C.		R-30	None	/ None	0.033	Floor Siding/sho Cavity / Fra	rface: Carpeted Deck: Wood eathing/decking ame: R-30 / 2x10 Finish: Gypsum Board	
BUILDING ENVELOP		TION			1				9	OPARTIE .		-		
01	·	10.15	02	111	D. III.	03		20.00		04			05	
Quality Insulation	75 - 75	rign K-V	alue Spray Foar		1 Build	ding Envelope	Air Le	акаде		CFM50		-10-11	CFM50	
Not Req	uired	ii.	Not Require	1		N/A				n/a			n/a	
WATER HEATING SYS	TEMS				9	1/								
01	02		03	C	14	05	21	06	i i	0	7	08	09	
Name	System Type	Dist	ribution Type	Water He	ater Name	Number of	Units	Solar He Syste	_	Com Distrib	200000000000000000000000000000000000000	HERS Verification	Water Heater Name (#)	
DHW Sys 1	Domestic Ho Water (DHW		Standard	DHW H	leater 1	1	1	n/a	3	No	ne	n/a	DHW Heater 1 (1	
WATER HEATERS - N	EEA HEAT PUMP									7			<u> </u>	
01	02		03		04			05		06		07	08	
Name	# of Un	its	Tank Vol. (gal)	NEEA Hea	33 37		Heat Pump Model	Та	nk Location	Due	ct Inlet Air Source	Duct Outlet Air Source	
	1		80		Rhee	m F		PROPH80T2R 1375SO		First Floor		First Floor	First Floor	

AQ) FANS 02 Airflow (CFM) 194	03 Fan Efficacy (W/CFM) 0.35	04 IAQ Fan Type Exhaust	05 Includes Heat/Energy Recovery?	06 IAQ Recovery Effectiveness - SRE	07 Includes Fault Indicator Display?	08 HERS Verification Yes	09 Status
02 Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	The state of
Airflow (CFM)	Fan Efficacy (W/CFM)	IAQ Fan Type	Includes Heat/Energy Recovery?	IAQ Recovery Effectiveness - SRE	Includes Fault Indicator Display?	HERS Verification	The state of
NEW PROCESSOR SERVICE STREET, SERVICE STREET, SERVICE STREET, SERVICE STREET, SERVICE STREET, SERVICE STREET,	(W/CFM)		Heat/Energy Recovery?	Effectiveness - SRE	Indicator Display?		Status
194	0.35	Exhaust	No	n/a	No	Yes	
						V	

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Registration Number: 423-P010086344A-000-000-0000000-00000 Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-20 10:50:52 Schema Version: rev 20220901

Project Name: Res Calculation Descri	idential Building ption: Title 24 Analy	/sis						William Shipware	Line of the Personal Property		10:49:44-07 RevC.ribd22x			(Page 12 of 15		
WATER HEATING - H		. 1		rasa				1	1000		1	cates.	,	10120		
01 Name	0. Pipe Ins		Pa	03 rallel Piping	Com	04 pact Distrib	ution	Co	05 mpact Distri Type	istribution Recirculation Control Shower Drain		06 Recirculation Control		rculation Control Shower Drain		07 er Drain Water Hea Recovery
DHW Sys 1 - 1/	1 Not Re	quired	No	ot Required		Not Require	d		None		Not F	Required	Not Required			
SPACE CONDITIONIN	NG SYSTEMS						-									
01	02	03		04	V	05		N	06		07	08		09		
Name	System Type	Heating Unit	Name	Heating Equipr	nent Cod	oling Unit N	ame		g Equipment Count	Fa	n Name	Distribution N	Name	Required Thermostat Type		
HVAC System1	Heat pump heating cooling	Heat Pump S	System	2	Не	at Pump Sys	stem		2	HV	AC Fan 1	Air Distribut System 1	E242000	Setback		
HVAC - HEAT PUMPS	; ;						H		1							
01	02	03	04	05	06	07	0	8	09	10	11	12		13		
		100 NA 9229		Heat	ng			١.	Cooling							
Name	System Type	Number of Units	Efficie Typ	I HAPE//	Cap 47	Cap 17		iency pe	SEER / SEER2	EER / EER / CEER	Zonally Controlled	Compressor Type	н	ERS Verification		
Heat Pump System 1	Central split HP	2	HSP	PF 9.7	48000	36400	EER	SEER	16	11	Not Zonal	Single Speed	150000	eat Pump System 1-hers-htpump		

Registration Number: 423-P010086344A-000-00000000-00000 Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-20 10:50:52

Verified

SEER/SEER2

Verified EER/EER2

Verified Refrigerant

Charge

Verified

HSPF/HSPF2

Verified Heating

Cap 47

Verified Heating

Cap 17

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD	CF1R-PRF-01
Project Name: Residential Building	Calculation Date/Time: 2023-05-20T10:49:44-07:00 (Page 15 of 15
Calculation Description: Title 24 Analysis	Input File Name: LeJamesResidenceRevC.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Mario Bertacco	Documentation Author Signature: Mario Bertacco
Company: NRG Compliance LP	Signature Date: 05/20/2023
Address: PO Box 3777	CEA/ HERS Certification Identification (If applicable):
City/State/Zip: Sant a Rosa, CA 95402	Phone: 707-237-6957
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The are consistent with the information provided on other applicable compliance documents, worksheets,
Responsible Designer Name: Steve Benzing	Responsible Designer Signature: Steve Benzing
Company: Steve Benzing - Architect	Date Signed: 05/20/2023

Phone: (408) 805-1328

Digitally signed by ConSol Home Energy Efficiency Rating System Services, Inc. (CHEERS). This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.

HVAC HEAT PUMPS - HERS VERIFICATION

Heat Pump System 1-hers-htpump

12403 Fredericksburg Dr

Saratoga, CA 95070

CF1R-PRF-01E

Verified Airflow

Airflow Target

Registration Number: 423-P010086344A-000-000-0000000-00000 Registration Date/Time: 05/20/2023 11:05 HERS Provider: CHEERS

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CA Building Energy Efficiency Standards - 2022 Residential Compliance Report Version: 2022.0.000 Report Generated: 2023-05-20 10:50:52 Schema Version: rev 20220901

STEVE BENZING ARCHITECT

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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ENERGY COMPLIANCE

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

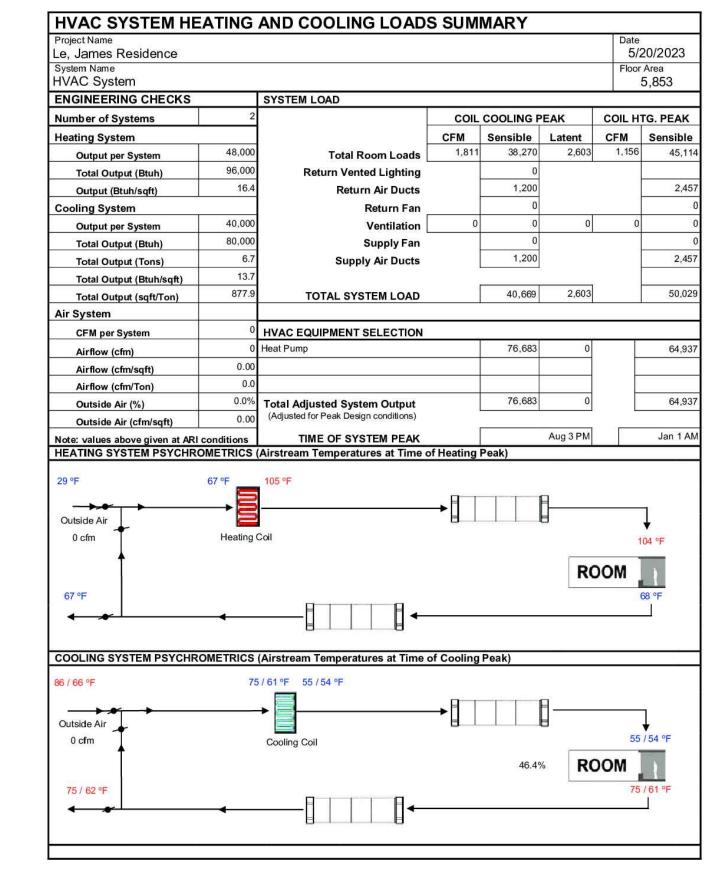
DATE: 1/3/23

SCALE: DRAWN BY:SMB

JOB NO. 1908

RESI	DENTI	AL MEA	SURES	SUMM	ARY						RMS-
Project Na Le, Jan	_{ame} nes Resi	idence		Buile	ding Type		gle Fami ti Family		ddition Alone xisting+ Addition	n/Alteration	Date 5/20/202
Project Ac	ddress		ese voes			rgy Climat		Total (Cond. Floor Area	Addition	# of Unit
		ane San J	ose	C	A Clima	ate Zone	e 04		5,853	n/a	1
	ATION.			2	626	Area	-	12	1202 <u>—</u> 01 1521		NEW Y
	ruction			Cav	rity	(ft^2)	S	pecia	l Features		Status
Wall	Wood Fr	1 1000		R 20	1818	3,958	5101 12	72 3			New
Wall	200 #840 # 100 CO	it Masonry		AND 00 TO 00	sulation	466	Add=R	-9.0			New
Roof	2021525279000	amed Rafter	100	R 30		90	-				New
Slab		d Slab-on-Grade			sulation	972	Perim :	= 108'			New
Floor	195	amed w/Crawl S	pace	R 19		1,220					New
Door	Opaque I	personal management		23500000 206-49-411	sulation	40	A -1 -1 - 17	120			New
Roof	0.110	amed Attic	10	R 30		2,626	Add=R	-73.0			New
Demising	STRATI	amed w/o Crawl	Ť		sulation	3,137	201 02	15 407		one and white who have	New
Orient		Area(ft²)	Total Area	SHGC	The second secon	Percentag	Sidef		New/Altered Avera		0.31 Status
Front (N)	เลเเปท	392.2	U-Fac 0.310	0.25	Overh		none	1115	N/A	aues	New
Rear (S)		230.0	0.310	0.25	none		none		N/A		New
Right (W)	1	171.2	0.310	0.25	none		none		N/A		New
Left (E)		108.0	0.310	0.25	none		none		N/A		New
HVAC	SYSTE	FMS									
	SYSTE		Min. E	iff Co	ooling		Min	ı. Eff	Ther	rmostat	Status
Qty.		g	Min. E 9.70 HSF		o oling lit Heat Pui	тр		ı. Eff	Ther Setback		Status New
Qty.	Heating Electric He	g	. 3000000000000000000000000000000000000				16.0	SEER	Setback		
Qty.	Heating Electric He	g eat Pump IBUTION	. 3000000000000000000000000000000000000	PF Spi				SEER	Setback		
Qty. 2 HVAC	Heating Electric He DISTR ion	g eat Pump IBUTION	9.70 HSF	PF Spi	oling		16.0	SEER	Setback D R	ouct	New
Qty. 2 HVAC Locati HVAC Sys	Heating Electric He DISTR ion stem	g eat Pump IBUTION He Ducte	9.70 HSF eating	Co Duc	oling	Duct Crawlsp	16.0	seer ation	Setback D R	ouct R-Value	Status New
Qty. 2 HVAC Locati HVAC Sys WATE Qty.	Heating Electric He DISTR ion stern R HEA Type	g lat Pump IBUTION He Ducte	9.70 HSF eating d	PF Spi	ooling ted Min.	Duct Crawls	16.0 t Loca	seer ation	Setback D R	ouct R-Value	Status New Status
Qty. 2 HVAC Locati HVAC Sys	Heating Electric He DISTR ion stem	g lat Pump IBUTION He Ducte	9.70 HSF eating	Co Duc	oling	Duct Crawls	16.0	seer ation	Setback D R	ouct R-Value	Status New

RESIDENTIAL MEA	SURES SU	JMMARY					RMS-
Project Name Le, James Residence		Building Type		mily Additionally Existin		/Alteration	Date 5/20/20
Project Address	NAMES OF STREET		nergy Climate Zon			Addition	# of Ur
Bella Madera Lane San J	ose	CA Clin	nate Zone 04	5,8	353	n/a	1
INSULATION Construction Type		Cavity	Area (ft²)	Special Fe	eatures		Status
Demising Wood Framed w/o Craw		R 30	427				New
Floor Wood Framed w/o Craw	т Space	R 19	98				New
FENESTRATION	Total Area:	901 Glazin	g Percentage:	15.4% New/	Altered Averag	ne I L.Factor	0.31
Orientation Area (ft^2)					erior Sha		Status
HVAC SYSTEMS	Min Eff	Cooling		lin Eff	Thorn	mantat	Status
HVAC SYSTEMS Qty. Heating	Min. Eff	Cooling	M	lin. Eff	Ther	mostat	Status
Qty. Heating HVAC DISTRIBUTION		200 200		20.00	Di	uct	Marchine Dec
Qty. Heating HVAC DISTRIBUTION	Min. Eff	Cooling		20.00	Di		Status
Qty. Heating HVAC DISTRIBUTION	eating	Cooling	Duct Lo	cation	Di	uct	Marchine Dec
Qty. Heating HVAC DISTRIBUTION Location He		Cooling	Duct Lo	20.00	Di	uct	Marchine Dec
Oty. Heating HVAC DISTRIBUTION Location He WATER HEATING Oty. Type	eating	Cooling	Duct Lo	cation	Di	uct	Status



STEVE BENZING ARCHITECT

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TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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ENERGY COMPLIANCE

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

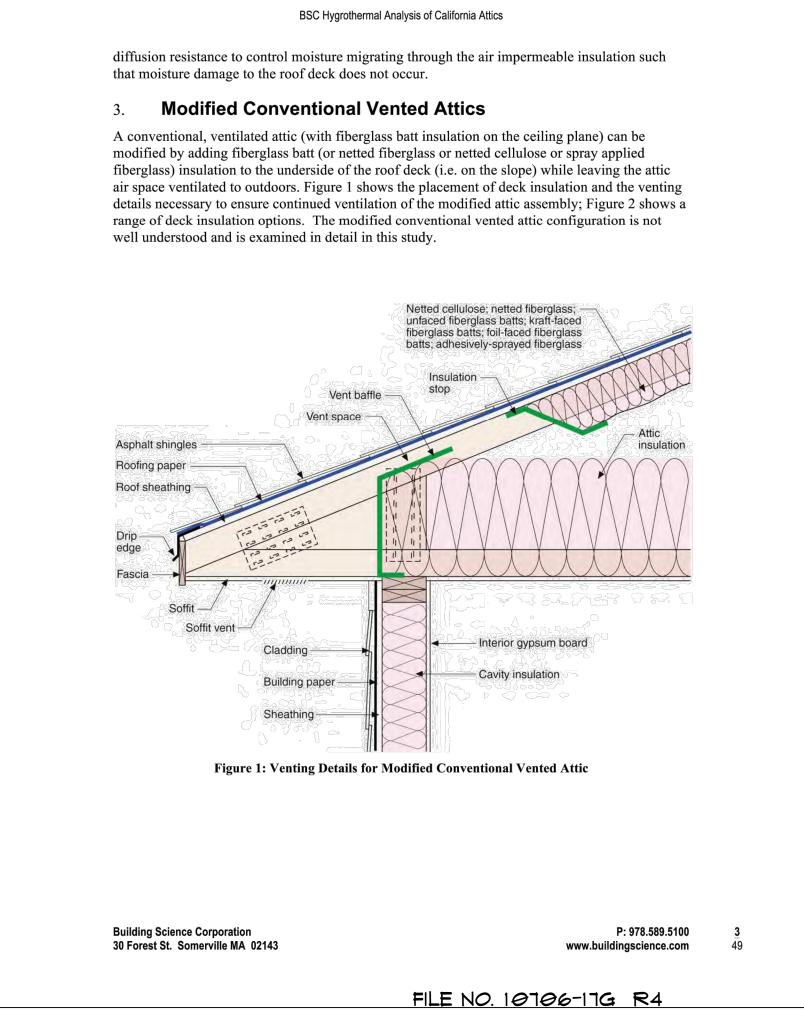
MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

DRAWN BY:SMB

JOB NO.



2) REINFORCING STEEL SHALL NOT BE WELDED, UNLESS SPECIFICALLY NOTED OTHERWISE. WELDING OF REINFORCING STEEL (WHERE SPECIFICALLY NOTED OR DETAILED) SHALL CONFORM TO ACI 318-19.

TO HOLD REINFORCING BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT, STANDARD TIE AND ANCHORAGE DEVICES MUST BE PROVIDED.

4) SHOP DRAWINGS FOR FABRICATION OF ANY REINFORCING STEEL SHALL BE APPROVED BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT AND THE ENGINEER, FOR THEIR REVIEW, PRIOR TO FABRICATION.

STAGGER SPLICES IN REINFORCING STEEL UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

7) FABRICATION, ERECTION, AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO CONCRETE REINFORCING STEEL INSTITUTE (C.R.S.I.) MANUAL OF STANDARD

8) MINIMUM LAP SPLICE FOR ALL REINFORCING BARS AT SPLICES SHALL BE 40 BAR DIAMETERS. ALL SPLICES ARE TO BE STAGGERED. PERPENDICULAR FOOTINGS SHALL HAVE TWO SPLICE BARS AT THE TOP AND BOTTOM (24" MIN. SPLICE).

9) THE MINIMUM RADIUS OF BEND FOR REINFORCING STEEL, MEASURED ON THE INSIDE OF THE REBAR, SHALL BE AS FOLLOWS: #3 := 1-1/5" #4 := 2"

10) AT THE TIME CONRETE IS PLACED, REINFORCING SHALL BE FREE OF MUD, OIL OR OTHER NONMETALLIC COATING THAT DECREASES BOND. EPOXY COATING OF STEEL REINFORCEMENT WHEN NEEDED SHALL BE IN ACCORDANCE WITH THE STANDARDS OF ACI 318-19 SECTIONS 3.5.3.7 AND 3.5.3.8.

11) MINIMUM REINFORCING IN ALL SLABS ON GRADE SHALL BE #4 BARS AT 16" O.C. EACH WAY AT MID-DEPTH, UNLESS NOTED OTHERWISE.

STRUCTURAL OBSERVATION AGREEMENT TO PERFORM STRUCTURAL OBSERVATION IN ACCORDANCE WITH SECTION 1704 OF THE CALIFORNIA BUILDING CODE.

, THE UNDERSIGNED LICENSED PROFESSIONAL ENGINEER AGREE TO PERFORM STRUCTURAL OBSERVATION OF THE NEW RESIDENCE AT BELLA MADIERA LANE, SAN JOSE, CA. UNTIL COMPLETION OF THE PROJECT OR UNTIL SUCH TIME THAT THE DIRECTOR OF BUILDING AND SAFETY DETERMINES THAT THIS IS NO LONGER REQUIRED OR UNTIL SUCH TIME THAT I NOTIFY THE DEPARTMENT OF BUILDING AND SAFETY THAT I WILL NO LONGER BE RESPONSIBLE FOR SUCH INSPECTION.

I UNDERSTAND THAT SUCH VISUAL OBSERVATION IS FOR THE PURPOSES OF ENSURING GENERAL CONFORMANCE OF THE WORK TO THE APPROVED PLANS AND SPECIFICATIONS AT SIGNIFICANT CONSTRUCTION STAGES (AS INDICATED ON THE APPROVED PLANS) AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. I WILL PREPARE REPORTS FOR EACH ONE OF MY OBSERVATIONS TO BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL. MY REPORTS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE DESCRIPTION OF THE OBSERVED WORK AND A LIST OF ANY AND ALL OBSERVED DISCREPANCIES BETWEEN THE APPROVED PLANS AND THE OBSERVED FIELD WORK, AS WELL AS METHODS USED OR STEPS TAKEN TO CORRECT SUCH DISCREPANCIES.

COMPANY: HJH ENGINEERING LICENSE NO.: 84917 EXP. DATE: 03/31/2024

CONSTRUCTION STAGES / ELEMENTS TO BE OBSERVED:

BASEMENT FOUNDATION: REINFORCEMENT, STEEL BASE PLATE ANCHOR BOLTS, SHEAR WALL ANCHOR BOLTS, SLAB REINFORCEMENT DOWELS.

RETAINING WALLS: BLOCK WALL REINFORCEMENT, DOWELS, ANCHOR BOLTS FLOOR STRUCTURAL FRAMING: GENERAL FRAMING AND SHEARWALL AND SHEAR

TRANSFER ELEMENTS ROOF STRUCTURAL FRAMING: GENERAL FRAMING AND SHEARWALL AND SHEAR

TRANSFER ELEMENTS

STRUCTURAL FRAMING: MOMENT FRAME, SHEAR TRANSFER CLIPS TO MOMENT FRAME, BOUNDARY NAILING

NOTE: OBSERVATION OF THE ABOVE MENTIONED CONSTRUCTION STAGES/ELEMENTS MAY

REQUIRE MULTIPLE OBSERVATION VISITS WHILE CONSTRUCTION IS IN PROGRESS. PROVIDE ENGINEER WITH A MINIMUM OF 48 HOURS NOTICE BEFORE OBSERVATION IS

NEEDED. CITY INSPECTOR SHALL BE SCHEDULED A FULL DAY AFTER ENGINEER OBSERVATION. CITY INSPECTION AND ENGINEER INSPECTION SHALL NOT TAKE PLACE ON THE SAME DAY.

ANY STEEL MEMBERS REQUIRED FOR THE ABOVE MENTIONED PROJECT SHALL HAVE STEEL SHOP DRAWINGS PREPARED, COMPLETED AND DELIVERED TO THE ENGINEER OF RECORD FOR APPROVAL BEFORE ANY MEMBERS ARE FABRICATED AND DELIVERED TO THE SITE.

SPECIAL INSPECTION

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING CHECKED ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SEC. 1704 OF THE 2022 CALIFORNIA BUILDING CODE

SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION (CONTINUOUS)

STRUCTURAL CONCRETE OVER 2500 PSI (CONTINUOUS)

PRESTRESSED CONCRETE ☑ STRUCTURAL MASONRY

☑ FIELD WELDING (PERIODIC) □ ORDINARY MOMENT FRAME CONNECTIONS (PERIODIC)

☐ HIGH STRENGTH BOLTING

□ EXPANSION/EPOXY ANCHORS

☐ SPRAYED ON FIRE—PROOFING SHEARWALL NAILING CLOSER THAN 4" O.C. (PERIODIC) □ OTHER: _

NAME(S) OF INDIVIDUAL(S) OR FIRM(S) RESPONSIBLE FOR THE SPECIAL INSPECTIONS

(BY ARCHITECT/OWNER)

LISTED ABOVE:

(BY ARCHITECT/OWNER)

DUTIES OF THE SPECIAL INSPECTORS FOR THE WORK LISTED ABOVE:

VERIFY THAT ITEMS NOTED ABOVE ARE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS INDICATED ON THE STRUCTURAL DRAWING.

B. VERIFY THAT ITEMS NOTED ABOVE CONFORM WITH THE STANDARDS DESIGNATED BY THE UNIFORM BUILDING CODE AND ALL OTHER REQUIREMENTS SPECIFIED BY THE

CONCRETE

ALL APPLICABLE SECTIONS OF ACI 318 - 19 SHALL BE CONSIDERED AS A PART OF THESE SPECIFICATIONS. ALL CONCRETE WORK SHALL COMPLY WITH 2022 CALIFORNIA BUILDING CODE (C.B.C.) CHAPTER 19.

2) ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'C) OF 2500 P.S.I. AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE REGULAR WEIGHT (UNLESS SPECIFICALLY NOTED OTHERWISE). CONCRETE IN GRADE BEAMS SHALL BE 3000 PSI AND WITH CONTINUOUS SPECIAL DEPUTY INSPECTION.

SPECIAL INSPECTION (AS REQUIRED OR SPECIFIED) SHALL CONFORM TO 2022 CBC SECTION 1704. SPECIAL INSPECTION SERVICES SHALL BE PROVIDED BY AN I.C.B.O. CERTIFIED DEPUTY INSPECTOR OR BUILDING DEPARTMENT APPROVED ENGINEER.

TYPE 1 OR 2 PORTLAND CEMENT SHALL CONFORM TO C.B.C. SECTION 1903 AND ACI 318-19 SECTION 26.4 STANDARD SPECIFICATION (ASTM C 150).

AGGREGATES SHALL CONFORM TO 2022 C.B.C. 1903 AND ACI 318-19 SECTION 26.4.2.1 MAXIMUM AGGREGATE SIZE SHALL BE 1-1/4". AGGREGATE SIZE FOR EXPOSED CONCRETE, SUCH AS IN SLABS, SHALL NOT EXCEED 1". GRADATION OF AGGREGATE SIZE SHALL BE PER ASTM C33, C117 AND C136.

WHERE NOT SPECIFICALLY DETAILED, THE MINIMUM CONCRETE COVER ON REINFORCING STEEL SHALL BE PER ACI 318-19 SECTION 20.6.1:

A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH OR WEATHER: 3"

B) CONCRETE PLACED AGAINST FORMS, BUT EXPOSED TO EARTH OR WEATHER:

MAXIMUM CONCRETE SLUMP SHALL BE 3 INCHES, 4 INCHES FOR CONCRETE STRUCTURAL DECKS.

ALL SLABS ON GRADE SHALL BE 5" THICK WITH #4 BARS AT 16" O.C., EACH WAY, AT MID DEPTH, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE 10 MIL VISQUEEN VAPOR BARRIER PROTECTED BY SAND UNDER ALL SLABS AT LIVING AREAS.

ALL ANCHOR BOLTS USED IN CONCRETE CONSTRUCTION SHALL HAVE A MINIMUM TOTAL EMBEDMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

5/8" DIAMETER OR SMALLER: 9" 3/4" DIAMETER: 12"

10) LOCATION OF ALL CONSTRUCTION JOINTS, OTHER THAN SPECIFIED, SHALL BE APPROVED BY THE ARCHITECT AND THE ENGINEER PRIOR TO POURING. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED AND HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATES. ALL SURFACES TO RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST THREE HOURS IN ADVANCE OF PLACING CONCRETE.

11) ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS, AND ANY OTHER HARDWARE TO BE SET INTO CONCRETE SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING OF CONCRETE.

12) THE ARCHITECT, ENGINEER, AND INSPECTOR SHALL BE NOTIFIED, IN A TIMELY MANNER, FOR REINFORCING INSPECTION PRIOR TO THE POURING OF ANY CONCRETE.

13) THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT AND THE ENGINEER PRIOR TO PLACING SLEEVES, PIPES, DUCTS, CHASES, CORING, AND OPENING ON OR THROUGH STRUCTURAL CONCRETE BEAMS, WALLS, FLOORS AND ROOF SLABS, UNLESS SPECIFICALLY NOTED OR DETAILED. ALL PIPES OR CONDUITS PASSING THROUGH CONCRETE MEMBERS SHALL BE SLEEVED WITH ANY MATERIAL NOT HARMFUL TO CONCRETE WITHIN LIMITATIONS OF THE ACI 318-19 SECTION 6.3.

14) FORMWORK DESIGN AND REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO 2022 C.B.C SECTION 1906.1 AND 1906.2 AND ACI 318-19 SECTION 26.11.1 AND 26.11.2.

15) FORM REMOVAL: REMOVE FORMS IN ACCORDANCE WITH THE FOLLOWING SCHEDULE: SIDE FORMS AT FOOTINGS: MINIMUM 2 DAYS. EDGE FORMS OF SLAB ON GRADE STRIP 1: MINIMUM 1 DAY.

16) VIBRATE ALL CONCRETE AS IT IS PLACED WITH A MECHANICAL VIBRATOR OPERATED BY EXPERIENCED PERSONNEL. THE VIBRATOR SHALL BE USED TO CONSOLIDATE THE CONCRETE, NOT TRANSPORT IT. REINFORCING STEEL AND FORMS SHALL NOT BE

17) ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE (A.C.I.) BUILDING CODE (A.C.I. 318-19) AND THE LATEST EDITIONS OF THE A.C.I. MANUALS OF CONCRETE PRACTICE AND SPECIFICATIONS.

18) CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT.

19) THE CONTRACTOR SHALL SUBMIT REQUESTS FOR THE USE OF ADMIXTURES TO THE ARCHITECT AND ENGINEER FOR THEIR REVIEW AND APPROVAL.

20) MIX DESIGNS SHALL BE PREPARED BY AN APPROVED TESTING LABORATORY AND SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR

21) ONLY ONE GRADE OF CONCRETE SHALL BE ALLOWED ON THE PROJECT SITE AT ANY ONE TIME.

22) UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE, CONSTRUCTION AND CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE SLABS, AND SHALL BE LOCATED SUCH THAT THE AREA WITHIN THE JOINTS DOES NOT EXCEED 400 SQUARE FEET (20' X 20' AREA).

23) FOR MAT SLAB CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD CYLINDER TESTS (IN ACCORDANCE WITH 2022 C.B.C. 1905.6 MADE BY AN APPROVED TESTING LABORATORY. THE CONTRACTOR SHALL MAINTAIN COPIES OF THE TEST REPORTS AT THE JOB SITE AND AVAILABLE FOR REVIEW AND INSPECTION BY THE BUILDING OFFICIALS. MAKE 3 TEST CYLINDERS FOR EACH DAY'S POUR. TEST EACH BATCH OF CYLINDERS AS FOLLOWS: 1 AT 7 DAYS, AND 2 AT 28 DAYS.

24) SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL DIMENSIONS, SLAB DEPRESSIONS, SLOPES, CURBS, AND CONTROL JOINTS.

25) ALL "DRYPACK" CALLED FOR UNDER BASEPLATES SHALL BE PRE-MIX SPEC CONCRETE - 5000 PSI GROUT. THIS IS A DRY FACTORY-BLENDED CONCRETE MIX CONSISTING OF TYPE II PORTLAND CEMENT, SAND AND 3/8" AGGREGATE. THIS DRYPACK SHALL BE PLACED UNDER CONTINUOUS DEPUTY INSPECTION.

26) CEMENT USE IN FOUNDATION MIX DESIGN IS REDUCED. TIER 2: NOT LESS THAN 25% REDUCTION IN CEMENT USE. FLY ASH SHALL BE USED IN CONCRETE POURED ON GRADE INCLUDING FOOTINGS, PILES, RETAINING WALL FOOTINGS AND SLABS ON GRADE. FLY ASH SHALL CONSTITUTE NO MORE THAN 25 % OF THE TOTAL WEIGHT OF CEMENTITOUS MATERIALS PER ACI 318-19 SECTION 19.3.3.4 AND MUST COMPLY WITH ASTM C 618 STANDARD SPECIFICATIONS FOR COAL FLY ASH. FLY ASH MAY NOT BE USED IN CONCRETE MEMBERS ABOVE GRADE (I.E., COLUMNS, DECKS, BEAMS, WALLS, ETC.) AND MAY NOT BE USED IN RETAINING WALL STEM. CONCRETE USING FLY ASH NEEDS A LONGER CURING TIME OF 56 DAYS TO REACH DESIRED COMPRESSIVE STRENGTH.

FOUNDATIONS

SEE SOIL REPORT BY C2 EARTH INC., REPORT NUMBER 23062C-01L2, DATED OCTOBER 12, 2023, WHICH IS CONSIDERED A PART OF THESE PLANS. ALLOWABLE BEARING PRESSURE = 4,000 PSF. RECOMMENDATIONS THEREIN SUPERCEDES STRUCTURAL DRAWINGS.

2) CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE

3) NO DEVIATION FROM STRUCTURAL DETAILS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER. APPROVAL BY CITY INSPECTOR DOES NOT CONSTITUTE AUTHORITY TO DEVIATE FROM PLANS OR SPECIFICATIONS.

ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'C) OF 4000 P.S.I. AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE REGULAR WEIGHT (UNLESS SPECIFICALLY NOTED OTHERWISE). CONCRETE IN GRADE BEAMS AND PILES SHALL BE 4000 PSI AND WITH CONTINUOUS SPECIAL DEPUTY INSPECTION. CONCRETE IN RETAINING WALLS SHALL BE 4000 PSI AND WITH CONTINUOUS SPECIAL DEPUTY INSPECTION.

5) REINFORCING STEEL: ASTM - A615, 40 GRADE FOR #4 BARS AND SMALLER, 60 GRADE FOR LARGER BARS, CLEAN AND RUST FREE. LAPS AT SPLICES AND POUR LINES TO BE 40 DIAMETER OR 2'-0" MINIMUM UNLESS OTHERWISE NOTED ON PLANS. PERPENDICULAR FOOTINGS SHALL HAVE TWO SPLICE BARS TOP AND BOTTOM TYPICAL, 24'MIN. SPLICE.

6) CARRY ALL FOUNDATIONS TO REQUIRED DEPTHS INTO UNDISTURBED NATURAL SOIL OR BEDROCK (AS PER STRUCTURAL DRAWINGS) AND AS VERIFIED BY THE APPROPRIATE BUILDING OFFICIAL.

7) FOOTING SHALL BE POURED IN NEAT EXCAVATIONS, WITHOUT SIDE FORMS WHENEVER POSSIBLE. SIDES AND BOTTOMS OF DRY EXCAVATIONS MUST BE MOISTENED JUST PRIOR TO PLACING CONCRETE. CONVERSLY, DE-WATER OVER-WET EXCAVATIONS AS REQUIRED TO PRECLUDE STANDING WATER. WHEN FORMWORK IS NECESSARY, THE DESIGN AND REMOVAL IS THE RESPONSIBILTY OF THE CONTRACTOR AND SHALL CONFORM TO 2022 CBC SECTION 1906.1 AND 1906.2 AND ACI 318-19 SECTION 26.11.1 AND 26.11.2.

8) ALL FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE APPROPRIATE BUILDING OFFICIAL AND GEOTECHNICAL CONSULTANT PRIOR TO FORMING AND PLACEMENT OF REINFORCING OR CONCRETE.

9) CEMENT: TESTED, TYPE I PORTLAND CEMENT SHALL CONFORM TO C.B.C. SECTION 1903 AND ACI 318-19 SECTION 26.4 AND ASTM C 150.

10) AGGREGATES SHALL CONFORM TO 2022 C.B.C. 1903 AND ACI 318-19 SECTION 26.4.2.1 MAXIMUM AGGREGATE SIZE SHALL BE 1-1/4". AGGREGATE SIZE FOR EXPOSED CONCRETE, SUCH AS IN SLABS, SHALL NOT EXCEED 1". GRADATION OF AGGREGATE SIZE SHALL BE PER ASTM C33, C117 AND C136.

VIBRATE CONCRETE AS IS IT PLACED IN FOOTING EXCAVATIONS WITH A MECHANICAL VIBRATOR OPERATED BY EXPERIENCED PERSONNEL. THE VIBRATOR SHALL BE USED TO CONSOLIDATE THE CONCRETE NOT MOVE OR SPREAD THE CONCRETE. REINFORCING STEEL AND FORMS SHALL NOT BE VIBRATED.

12) CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT.

13) UNLESS NOTED OTHERWISE SLABS ON GRADE SHALL BE A MINIMUM OF 5" THICK WITH #4 BARS AT 16" O.C. EACH WAY - PROVIDE 1-1/2" COVER TO TOP OF SLAB. SLAB IS TO BE PLACED ON 2" SAND LAYER ON 10 MIL VISQUEEN VAPOR BARRIER. OR PER SUBGRADE REQUIREMENTS IN SOIL REPORT, IF ANY, OR PER ARCHITECTS REQUIREMENTS.

ALL SILL PLATE BOLTS SHOWN ON STRUCTURAL DRAWINGS SHALL BE A307 "L" -GALVANIZED - BOLTS. MINIMUM ANCHOR BOLTS SHALL BE 5/8"DIA. WITH 9" EMBEDMENT INTO CONCRETE AND SPACING NOT MORE THAN 38 INCHES ON CENTER OR AS PER SHEARWALL SCHEDULE. ONE SILL PLATE BOLT SHALL BE LOCATED 12" FROM END OF WALL PANELS. BOLTS / HARDWARE IN CONTACT WITH PRESSURE TREATED LUMBER TO BE GALVANIZED.

15) ALL CAST-IN-PLACE HARDWARE, HOLDOWNS, CB BASES, ANCHOR BOLTS ETC, SHALL BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION. FRAMING CONTRACTOR TO VERIFY LOCATIONS. NO WET PLACEMENT OF HARDWARE ALLOWED.

16) SEE ARCHITECTURAL PLANS FOR LOCATIONS AND DIMENSIONS OF SLAB DEPRESSIONS, SLOPES, CURBS AND CONTROL JOINTS.

> County of Santa Clara Committee I-3: Structural Observation

STRUCTURAL OBSERVATION PROGRAM AND DESIGNATION OF THE STRUCTURAL OBSERVER

BELLA MADERIA LANE

SAN JOSE, CA PROJECT ADDRESS: APN: 654-64-012 PERMIT APPL. NO.:

Description of Work: NEW RESIDENTIAL

Architect: STEVE BENZING Engineer: HJH ENGINEERING

(only checked items are required) Firm or Individual to be responsible for the Structural Observation: Calif. Registration: 84917 Phone: (818) 519-8572 Name: Jack Hadiian FRAME DIAPHRAGM **FOUNDATION** WALL □ Concrete Masonry □ Steel Braced Frame Steel Deck

▼ Footing, Stem Walls, Piers ☐ Mat Foundation ⊠ Caisson, Piles, Grade Beams **⋈** Wood ☐ Concrete Moment Frame ☐ Wood

 I X Stepping, Retaining Foundation
 □ Others:

 ☐ Masonry Wall Frame □ Others: ☑ Others: HFX Others:

STRUCTURAL OBSERVATION

DECLARATION BY OWNER

I, the Owner of the project, declare that the above listed firm or individual is hired by me to be the Structural Observer.

DECLARATION BY ARCHITECT OR ENGINEER OF RECORD

(required if the Structural Observer is different from the Architect or Engineer of Record)

I, the Architect or Engineer of record for the project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation.

GENERAL (CONTINUED)

4) ALL INFORMATION ON EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURACY. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE. BEFORE FINAL BIDDING AND/OR DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPENCIES BETWEEN THE PLANS AND THE CONDITIONS AT THE SITE, OR BETWEEN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE A DISCREPANCY BETWEEN THE DRAWINGS (ARCHITECTURAL AND/OR STRUCTURAL) AND THE CONDITION IN THE FIELD. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING WITH WORK / FINAL PRICING.

THERE SHALL BE NO DEVIATION FROM THE PLANS, DETAILS, NOTES, AND SPECIFICATIONS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.

DO NOT SCALE STRUCTURAL PLANS OR DETAILS. ONLY WRITTEN DIMENSIONS SHALI

THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APPLY TO ALL PHASES OF THIS PROJECT UNLESS NOTED OR SHOWN OTHERWISE ON PLANS. TYPICAL DETAILS MAY NOT BE REFERENCED AND WILL APPLY TO SIMILAR CONDITIONS.

SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

9) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS OF THE STRUCTURE.

10) ALL WORK SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN THE VARIOUS TRADES COMPRISING THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.

11) THESE NOTES, DETAILS, DRAWINGS AND SPECIFICATIONS (CONTRACT DOCUMENTS) REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES,

SEQUENCES AND PROCEDURES, INCLUDING TEMPORARY SHORING AND SAFETY.

12) THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORMATION NOT COVERED BY THE DRAWINGS.

13) THE CONTRACTOR SHALL PROVIDE THE DESIGN, MATERIALS, AND FABRICATION OF ALL TEMPORARY BRACING AND SHORING FOR ALL STRUCTURAL MEMBERS AS REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING ALL PHASES OF THE CONSTRUCTION.

14) THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE PROPER ALIGNMENT OF THE STRUCTURE AFTER THE INSTALLATION OF ALL STRUCTURAL AND FINISH MATERIALS. THIS SHALL INCLUDE ANY NECESSARY PRE-LOADING OF THE STRUCTURE TO DETERMINE FINAL POSITION OF THE COMPLETED WORK.

15) OBSERVATION VISITS TO THE PROJECT SITE BY FIELD REPRESENTATIVES OF THE ENGINEER (SUPPORT SERVICES) SHALL NOT INCLUDE INSPECTIONS OF SAFETY OR PROTECTIVE MEASURES, NOR CONSTRUCTION PROCEDURES, TECHNIQUES OR METHODS. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING ANY PHASE OF THE CONSTRUCTION, SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES (AS REQUIRED BY ANY REGULATING GOVERNMENTAL AGENCY, I.E. LOCAL BUILDING DEPARTMENT) PROVIDED BY OTHERS. THESES SUPPORT SERVICES, WHETHER MATERIAL OR WORK, ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE TO THE CONSTRUCTION DOCUMENTS, BUT DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

16) COORDINATION WITH ARCHITECTURAL PLANS; THE ARCHITECT SHALL COORDINATE STRUCTURAL PLANS WITH ALL OTHER PROFESSIONAL DISCIPLINES INCLUDING ARCHITECTURAL PLANS, ANY CONFLICTS BETWEEN THE STRUCTURAL PLANS AND OTHER CONSULTANTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN

17) PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAILS AND NOTES FOR MECHANICAL AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, PIPING, ETC. ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE PROPERLY "SWAY" BRACED AGAINST ALL LATERAL (WIND, SEISMIC, VIBRATION, ETC.) FORCES.

18) PRIOR TO COMMENCING WITH THE CONSTRUCTION. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DRAWINGS, AND ANY DISCREPANCY BETWEEN THESE DRAWINGS SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION BEFORE START OF CONSTRUCTION.

SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR (SIM.) CONDITIONS THAT ARE SHOWN OR CALLED FOR.

19) IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY

20) THE CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SOILS / GEOTECHNICAL / FOUNDATION INVESTIGATIONS ON THE JOB SITE AT ALL TIMES. THESE REPORTS SHALL BE CONSIDERED AS A PART OF THESE PLANS AND THE CONTRACTOR SHALL INCORPORATE ALL RECOMMENDATIONS/REQUIREMENTS OF SAID REPORTS INTO THE CONSTRUCTION OF THIS PROJECT.

21) ASTM DESIGNATIONS AND STANDARDS, ICBO REPORTS, AND CITY OF SAN JOSE

(COLA) RESEARCH REPORTS (RR) REFER TO THE LATEST AMENDMENTS. 22) ONLY "BUILDING DEPARTMENT APPROVED" STRUCTURAL WORKING DRAWINGS (AND ALL OTHER CONSTRUCTION DOCUMENTS) ARE PERMITTED TO BE USED FOR CONSTRUCTION ON THIS PROJECT. ALL OTHER DRAWINGS ARE OBSOLETE AND ARE NOT PERMITTED ON THE JOB SITE, NOR SHALL THEY BE USED FOR ANY CONSTRUCTION PURPOSES (INCLUDING THE CALCULATION OF ALL FINAL ESTIMATES AND BIDS AND CONTRACTS). ANY CONTRACTOR USING UNAPPROVED DRAWINGS WILL BE HELD SOLELY RESPONSIBLE FOR ALL WORK NOT PERFORMED IN ACCORDANCE WITH THE "APPROVED" DRAWINGS.

23) THESE PLANS REPRESENT THE STRUCTURAL DESIGN ONLY. NO INFORMATION NOR WARRANTY IS PROVIDED FOR ARCHITECTURAL INFORMATION, INCLUDING BUT NOT LIMITED TO, WATERPROOFING DETAILS, DRAINAGE, VENTILATION OF FRAMING, AND ARCHITECTURAL DIMENSIONS.

24) ALL REPORTS BY THE SPECIAL DEPUTY INSPECTOR SHALL BE SUBMITTED TO THE ENGINEER AND ARCHITECT.

25) NO WARRANTY: IN PERFORMANCE OF PROFESSIONAL SERVICES. THE ENGINEER SHALL USE THAT DEGREE OF CARE AND SKILL ORDINARILY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY OTHER MEMBERS OF THE PROFESSION IN THIS LOCALE AT THE TIME THE SERVICES ARE RENDERED. NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE IN CONNECTION WITH RENDERING OF PROFESSIONAL

26) STRUCTURE TO BE BUILT PER PERMITTED PLANS. IF ANY DISCREPANCIES FOUND BETWEEN EXISTING CONDITIONS IN THE FIELD AND EXISTING CONDITIONS ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND ARCHITECT IN WRITTEN FORM EXPLAINING THE DISCREPANCY. ALL STRUCTURAL CONTRUCTION QUESTIONS ARE TO BE IN WRITTEN FORM AND SENT TO THE ENGINEER OF RECORD AT HJH ENGINEERING AND ALSO SENT TO THE ARCHITECT OF RECORD BY THE GENERAL CONTRACTOR AND/OR SUBCONTRACTORS.

27) STRUCTURAL OBSERVATION: WHEN THE ENGINEER OF RECORD IS REQUIRED TO PERFORM STRUCTURAL OBSERVATIONS IN THE FIELD DURING CONSTRUCTION. (SEE STRUCTURAL OBSERVATION NOTES) THE FIELD SHALL NOTIFY THE ENGINEER OF RECORD AT LEAST 48 HOURS IN ADVANCE OF THE REQUIRED STRUCTURAL OBSERVATION. CITY INSPECTION SHALL BE SCHEDULED ONE DAY AFTER ENGINEER'S STRUCTURAL OBSERVATION.

BUILDING AND SITE INFORMATION

SITE CLASS: SEISMIC DESIGN CATEGORY: SEISMIC IMPORTANCE FACTOR, I: 1.0 RISK CATEGORY:

SEISMIC-FORCE-RESISITNG SYSTEM(S): LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR

SHEAR RESISTANCE ORDINARY MOMENT FRAME (OMF) -

GRID LINE 1, 1.2, 2, AND D RESPONSE MODIFICATION FACTOR, R: 6.5 (LIGHT FRAMED SHEAR WALLS)

3 (OMF)

REDUNDANCY FACTOR, R: 1.3

FLOOR:

DEAD LOADS: 11.0 PSF (MAX. LIGHT WT. CONC. ROOF TILE WEIGHT = 7.5 PSF) ROOF: 11.0 PSF CEILING: FLOOR: 20.0 PSF DECK: 33.0 PSF LIVE LOADS 20.0 PSF ROOF:

DECK: 60.0 PSF EQUIVALENT LATERAL FORCE PROCEDURE

40.0 PSF

SHORT SPECTRAL RESPONSE ACCELERATION, SS: 1 SEC. SPECTRAL RESPONSE ACCELERATION, S1: 0.874 SHORT SPECTRAL RESPONSE COEFFICIENT, SDS: 1 SEC. SPECTRAL RESPONSE COEFFICIENT, SD1: 0.991

SEISMIC RESPONSE COEFFICIENT, CS= 0.279 W

V = 0.254 W (ASD)DESIGN BASE SHEAR,

WIND DESIGN PARAMETERS: 95 MPH (ASCE 7-16 FIG. 26.5-1B) BASIC WIND SPEED (V) **EXPOSURE CATEGORY:** C (ASCE 7-16 SEC. 26.7.3) **RISK CATEGORY:** 2 (ASCE 7-16, TABLE 1.5-1) TOPOGRAPHIC FACTOR (KZT): ADJUSTMENT FACTOR (λ): 1.4 MEAN ROOF HEIGHT (H):

ROOF SLOPE (⊕): INTERNAL PRESSURE COEFFICIENT (GCPI): +/- 0.18 (ASCE 7-16 FIG. 26.13-1) SIMPLIFIED HORIZONTAL PRESSURE (PS30): 18.86 PSF DESIGN HORIZONTAL PRESSURE (PS): 26.41 PSF (15.8 PSF ASD)

GENERAL

ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2021 EDITION OF THE IBC AND THE 2022 CALIFORNIA BUILDING CODE - AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF

THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS (CONTRACT DOCUMENTS) AND VERIFY ALL DIMENSIONS AND CONDITIONS AND REPORT ANY DISCREPANCIES (BETWEEN ARCHITECTURAL AND STRUCTURAL OR BETWEEN STRUCTURAL AND MEP OR BETWEEN STRUCTURAL AND THE CONDITIONS IN THE FIELD) TO THE ENGINEER AND ARCHITECT BEFORE PROCEEDING WITH CONSTRUCTION OR FINAL BIDDING. THE ARCHITECTURAL PLANS SHALL BE USED FOR ALL DIMENSIONS AND WALL LAYOUTS.

3) CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTION" SHALL SUBMIT A WRITTEN STATEMENT TO THE COUNTY OF SANTA CLARA INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT.

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HFX DETAILS

HFX DETAILS

REVISIONS

NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEE Exp. 03-31-24

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PROJECT NUMBER: 23B03

DATE: DEC. 10, 2023

PROJ. ENG. / DRAWN:

SCALE: AS NOTED

J) ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT UNLESS NOTED OTHERWISE. GROUT SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED. GROUT SHALL BE PLACED BY PUMPING OR AN APPROVED ALTERATIVE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING OCCURS. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY HAS BEEN LOST. THE GROUTING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.

K) WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT APPROXIMATELY 1 1/2" ABOVE OR BELOW A BED JOINT.

L) ALL REINFORCING SHALL BE IN PLACE AND SECURED PRIOR TO GROUTING. REINFORCEMENT SHALL BE PLACED AND SECURED IN CONFORMANCE WITH 2022 CBC AND ACI 530.1-11.

- 6) FOR CONSTRUCTION DURING HOT WEATHER WHEN AMBIENT TEMPERATURE EXCEEDS 100 DEGRESS F , OR EXCEEDS 90 DEGRESS F WITH A WIND VELOCITY OF GREATER THAN 8 MPH PREPARATION AND CONSTRUCTION MUST CONFORM TO 2022 C.B.C. SECTION 2104.4, ARTICLE 1.8D OF ACI 530.1-11.
- 7) BLOCK WALLS SHALL HAVE A MINIMUM OF #5 @ 24" O.C. VERTICAL STEEL AND #4 @ 24" OC. HORIZONTAL STEEL, UNLESS NOTED OTHERWISE ON PLANS.
- 8) ALL WALL CORNERS AND ENDS, AND DOOR AND WINDOW JAMBS SHALL HAVE 2-#5 BARS AS JAMB STEEL MINIMUM UNLESS NOTED OTHERWISE.
- 9) ALL JAMB REINFORCEMENT SHALL DOWEL AND HOOK INTO THE FOOTING OR DECK BELOW WITH LAP BARS OF THE SAME DIAMETER.
- 10) BLOCK RETAINING WALLS MAY BE BACKFILLED BEFORE THE GROUT IS 28 DAYS OLD IF TEST RESULTS SUBSTANTIATE THAT THE 2000 PSI COMPRESSIVE STRENGTH HAS BEEN REACHED.
- 11) MASONRY WALLS DESIGNED TO BE EVENTUALLY RESTRAINED AT THE TOP (I.E. BY A CONCRETE DECK OR FLOOR FRAMING) SHALL REQUIRE BRACING CLOSE TO THE TOP OF THE WALL IF BACKFILLED PRIOR TO THE CONCRETE DECK/FLOOR FRAMING INSTALLATION.
- 12) REINFORCING BARS LARGER THAN #8 ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE. BAR DIAMETER SHALL NOT EXCEED 1/8 OF WALL THICKNESS AND SHALL NOT EXCEED 1/4 OF THE LEAST DIMENSION OF THE CELL, COURSE OR COLLAR JOINT IN WHICH IT IS PLACED (2022 CBC SECTION 2107.4).
- 13) REINFORCEMENT LARGER THAN #9 SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 SCTION 2.1.8.7 (2022 CBC 2107.3).
- 14) CONTINUOUS SPECIAL INSPECTION AS REQUIRED OR SPECIFIED SHALL CONFORM TO 2022 CBC SECTION 2105.3 AND SECTION 1705.4. SPECIAL INSPECTION SERVICES SHALL BE PROVIDED BY AN I.C.B.O. CERTIFIED DEPUTY INSPECTOR OR BUILDING DEPARTMENT APPROVED ENGINEER.
- 15) AT ALL SPLICES IN REINFORCING (STAGGER SPLICES), LAP (MINIMUM) BARS 40 BAR DIAMETERS. THE MINIMUM RADIUS OF BEND FOR REINFORCING STEEL (MEASURED ON THE INSIDE OF THE BAR) SHALL BE AS FOLLOWS:
- #6 = 4.5" #3 := 1-1/5**"** #4 := 2**"** 16) ALL HORIZONTAL ANCHOR BOLTS USED IN CONCRETE BLOCK CONSTRUCTION SHALL HAVE A MINIMUM TOTAL EMBEDMENT AS FOLLOWS: 5/8 DIA. OR SMALLER = 4"
- EMBEDMENT, 3/4" DIA = 5" EMBEDMENT, 7/8" DIA = 6" EMBEDMENT. 17) UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE. VERTICAL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE BLOCK WALLS PER THE LESSER OF:

1)25'-0" O.C. 2)LENGTH TO HEIGHT RATIO OF 1.5. (I.E. IF HEIGHT IS 8'-0" HIGH, THE SPACING WOULD BE 12'-0", THE GOVERNING SPACING WOULD BE 12'-0") CONTROL JOINTS SHALL EXTEND THE FULL HEIGHT OF THE WALL.

LOCATION OF ALL CONSTRUCTION/CONTROL JOINTS, OTHER THAN THOSE SPECIFIED. SHALL BE APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER PRIOR TO

- PLACEMENT. 18) CONCRETE BLOCK WALLS (OF ONE STORY OR TALLER) SHALL BE SECURELY BRACED AND SHORED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION
- 19) REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING USING WIRE POSITIONERS AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.REINFORCEMENT PLACEMENT PER ACI 530-11 SECTION 1.16.3.

PREFABRICATED WOOD ROOF TRUSSES

- DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE "GUIDELINES FOR METAL PLATE CONNECTED WOOD TRUSSES" BY THE AMERICAN FOREST AND PAPER ASSOCIATION.
- 2) THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ALONG WITH A COMPLETE SET OF STRUCTURAL DESIGN CALCULATIONS FOR REVIEW PRIOR TO FABRICATION. DESIGN OF THE ROOF TRUSSES SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. SHOP DRAWINGS SHALL BE STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF THE
- 3) CONNECTOR PLATES USED BY THE TRUSS MANUFACTURER SHALL BE APPROVED BY A CURRENT ICC RESEARCH RECOMMENDATION. A COPY OF THE RECOMMENDATION IS TO BE INCLUDED AS PART OF THE SHOP DRAWING SUBMITTAL.
- 4) ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM DEAD LOADS: TOP CHORD: [17] POUNDS PER SQ. FOOT. BOTTOM CHORD: [11] POUNDS PER SQ. FOOT. [INCLUDING A SINGLE 200 POUND POINT LOAD APPLIED WHERE A MAXIMUM CONDITION WILL OCCUR.] DESIGN BOTTOM CHORD FOR POINT LOAD IN ACCORDANCE WITH ASCE 7.
- 5) JOIST DEFLECTION REQUIREMENTS: LIVE LOAD = L/360, TOTAL LOAD = L/240, L= TRUSS
- 6) TRUSSES SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF [10] PSF.
- 7) LUMBER GRADES: MINIMUM GRADE = NO. 2, D.FIR/LARCH, S.DRY, Fb=1250.
- 8) THE DESIGN OF THE TRUSSES SHALL INCLUDE EFFECTS OF ANY ECCENTRICITY IN THE
- 9) BOTTOM CHORD BRACING NOT SHOWN ON PLANS SHALL BE THE MINIMUM REQUIRED. TRUSS MANUFACTURER TO PROVIDE ADDITIONAL LINES AS REQUIRED PER TRUSS DESIGN. ALL WEB MEMBERS IN COMPRESSION SHALL BE LATERALLY BRACED, UNLESS THE STRUCTURAL CALCULATIONS PROVE THAT NONE IS REQUIRED.

MANUFACTURED LUMBER (TJI, PSL, LVL, LSL)

- SCOPE: THIS WORK INCLUDES THE COMPLETE FURNISHINGS AND INSTALLATION OF ALL WOOD WEB JOISTS (TJI), PARALLEL STRAND LUMBER (PSL) BEAMS, LAMINATED VENEER LUMBER (LVL) AND TIMBERSTRAND LUMBER (LSL) MANUFACTURED BY WEYERHAEUSER ILEVEL (OR APPROVED EQUIVALENT) AS SHOWN ON THE DRAWINGS.
- CODE APPROVALS: THESE PRODUCTS SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE INTERNATIONAL CODE COUNCIL (ICC) EVALUATION SERVICE, INC. REPORT NO. ESR -1387 AND REPORT NO. ÉSR-1153
- PRODUCT MATERIALS SHALL COMPLY WITH ICC REPORT NO. ESR -1387 AND NO. ESR-1153. MEMBERS SHALL BE MANUFACTURED FROM STRANDS OF WOOD FIBER IN A CONTINUOUS PROCESS WITH ALL STRANDS ORIENTED TO THE LENGTH OF THE MEMBER AND THEN FED INTO A PRESS IN THE DESIRED LAY-UP PATTERN. ALL MEMBERS ARE TO BE FREE OF FINGER JOINTS OR SCARFS OR MECHANICAL CONNECTIONS IN FULL LENGTH MEMBERS. LVL WOOD VENEERS SHALL BE ULTRASONICALLY GRADED OR GRADED BY OTHER ADVANCED GRADING SYSTEMS WEST COAST MICROLLAM 1.9 E SHALL BE USED. ADHESIVES SHALL BE OF THE WATERPROOF TYPE CONFORMING TO THE REQUIREMENTS OF ASTM D-2559.
- 4) FABRICATION: MEMBERS SHALL BE MANUFACTURED IN A PLANT APPROVED FOR FABRICATION BY THE BUILDING CODE AND UNDER THE SUPERVISION OF AN APPROVED THIRD PARTY INSPECTION AGENCY. PRODUCT TO BE FABRICATED IN AN LADBS LICENSED FABRICATOR'S SHOP. IT SHALL BE MANUFACTURED IN A CONTINUOUS PROCESS WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBERS. IDENTIFICATION: EACH OF THE JOISTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE TYPE, NER REPORT NUMBER, MANUFACTURERS NAME, PLANT NUMBER, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.
- ERECTION AND INSTALLATION: IF STORED PRIOR TO ERECTION, MEMBERS SHALL BE PROTECTED FROM THE WEATHER. IT SHALL BE ERECTED AND INSTALLED IN ACCORDANCE WITH THE PLANS. MANUFACTURER SPECIFICATIONS AND ANY OTHER DRAWINGS AND INSTALLATION SUGGESTIONS WHICH MAY BE PROVIDED. TEMPORARY CONSTRUCTION LOADS WHICH CAUSE STRESSES BEYOND DESIGN LIMITS ARE NOT PERMITTED. HOLES, CUTS, OR NOTCHES NOT PREVIOUSLY APPROVED BY MANUFACTURER AND/OR ENGINEER SHALL NOT BE PERMITTED.
- PROVIDE SOLID BLOCKING AT SHEAR WALLS AS PER TYPICAL SHEAR TRANSFER DETAILS ON PLANS. THIS BLOCKING SHALL BE LSL MATERIAL.
- 7) JOISTS ARE TO BE BLOCKED AT SPANS PER MANUFACTURER'S RECOMMENDATIONS.
- THE PRODUCTS DELIVERED SHALL BE FREE FROM MANUFACTURING ERRORS OR DEFECTS IN WORKMANSHIP AND MATERIAL. FIRE RATING/SOUND RATING: FIRE AND SOUND RATINGS ARE TO BE ESTABLISHED IN ACCORDANCE WITH ASSEMBLIES AS DETAILED IN ICC REPORT NO. ESR-1153.
- ALTERNATES AND/OR EQUALS: DUE TO THE CUSTOMIZED DETAILING AND ENGINEERING CHARACTERISTIC OF THE ROOF AND/OR FLOOR FRAMING ASSEMBLY, IT IS A REQUIREMENT THAT WEYERHAEUSER ILEVEL BE USED IN THE "BASE" BID. OTHER MANUFACTURERS' BIDS ARE TO BE LISTED IN THE ALTERNATE SECTION OF YOUR PROPOSAL. ALL FRAMING PLANS, DETAILING, AND CALCULATIONS FOR THE ALTERNATE BIDS WILL BE REVIEWED BY THE OWNER, ARCHITECT, AND ENGINEER FOR STRUCTURAL PERFORMANCE, POSSIBLE CONFLICTS WITH RELATED TRADES, AND COMPATIBILITY WITH THE OVERALL BUILDING REQUIREMENTS AND BUILDING CODE.

MASONRY

ALL CONCRETE BLOCK CONSTRUCTION SHALL BE SOLID GROUTED UNLESS NOTED OTHERWISE. CONSTRUCTION SHALL COMPLY WITH 2022 CBC SECTIONS 2104.1.1 THROUGH 2104.4 AND WITH ACI 530.1-11.

- CONCRETE BLOCK UNITS: A) CONFORM TO 2022 C.B.C. SECTION 2103.1 AND ASTM C 90, HOLLOW LOAD
- BEARING CONCRETE UNITS. B) CONCRETE BLOCK UNIT TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF (FM) OF 1,500 PSI
- C) OPEN-END MASONRY UNITS (SPEED BLOCK) ARE ACCEPTABLE WHEN NEEDED.
- A)MORTAR SHALL BE TYPE 'M' OR 'S' AND SHALL CONFORM TO ASTM C 270 AND
- ARTICLES 2.1 AND 2.6A OF ACI 530.1-11 (2022 CBC SECTION 2103.9). B)MORTAR SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 1800 P.S.I. AT 28 DAYS.
- GROUT: A) GROUT SHALL COMPLY WITH ARTICLE 2.2 OF ACI 530.1 (2022 CBC SECTION
- 2103.13). B) GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2000 P.S.I. AT 28
- REQUIREMENTS FOR CONCRETE BLOCK CONSTRUCTION SHALL CONFORM TO THE FOLLOWING:
- A) CONCRETE BLOCK CONSTRUCTION SHALL CONFORM TO 2022 C.B.C. SECTION 2104 AND ACI 530.1-11. B) EVERY OPENING (EXCEEDING 24" IN EITHER DIRECTION) SHALL HAVE A MINIMUM OF

2-#5 DIRECTLY ABOVE, AND BELOW (UNLESS AT THE FOUNDATION) AND ADJACENT

- TO BOTH SIDES. REINFORCING BARS SHALL EXTENT A MINIMUM OF 24" PAST EDGE OPENING. C) AT THE ENDS OF ALL WALLS THERE SHALL BE A MINIMUM OF 2-#5 VERTICAL. D) AT THE TOP OF ALL WALLS SHALL BE A MINIMUM OF 2-#4 HORIZONTALLY.
- E) DOWEL CONCRETE BLOCK WALLS AND COLUMNS SUPPORTING CONCRETE WITH BARS OF THE SAME SIZE AND SPACING AS VERTICAL. SEE NOTES FOR MINIMUM LENGTH OF SPLICE. F) BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES
- (RUNNING BOND). STACK BOND OR MECHANICAL ANCHORAGE SHALL NOT BE USED UNLESS SPECIFICALLY NOTED OR DETAILED. G) AT THE TIME OF LAYING ALL MASONRY, UNITS SHALL BE FREE OF EXCESSIVE DIRT
- AND DUST. HOLLOW UNITS SHALL BE PLACED SUCH THAT FACE OF SHELLS OF BED JOINTS ARE FULLY MORTARED. WEBS SHALL BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS, PILASTERS, IN THE STARTING COURSE ON FOUNDATIONS WHERE ADJACENT CELLS OR CAVITIES ARE TO BE GROUTED, AND WHERE OTHERWISE REQUIRED. HEAD JOINTS SHALL BE MORTARED A MINIMUM DISTANCE FROM EACH FACE EQUAL TO THE FACE SHELL THICKNESS OF THE UNITS. THICKNESS OF BED JOINTS SHALL NOT EXCEED 5/8" (2022 CBC SECTION 2105.2.2.1.2)
- H) GROUTING OPERATIONS, MAXIMUM GROUT POUR HEIGHT, AND USE OF CLEAN-OUTS SHALL CONFORM TO 2022 C.B.C SECTION 2104.1.2 AND ACI 530.1-11 SECTION 1.20. CLEANOUTS (IF REQUIRED) SHALL BE PROVIDED BY SUITABLE 'C' OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE GROUTED, OR OTHER APPROVED LOCATIONS. THE CLEAN-OUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.

GENERAL STEEL AND WELDING

- 1) ALL STRUCTURAL STEEL SHALL BE IDENTIFIED IN ACCORDANCE WITH 2021 IBC AND 2022 CBC SECTION 2205A AND AISC 360-16. WIDE FLANGE SECTIONS TO BE A-572 50 KSI STEEL.
- 2) STEEL SHAPES, PLATES AND BARS SHALL BE MIN. ASTM A36 (FY = 36 KSI) UNLESS NOTED OTHERWISE.
- 3) WIDE FLANGE SECTIONS IN MOMENT FRAMES SHALL BE A992 GR. 50-65 KSI. ALL OTHER WIDE FLANGE SECTIONS SHALL BE GR. 50 (MIN. FY = 50 KSI).
- 4) PIPE STEEL SHALL BE WELDED PIPE CONFORMING TO ASTM A-53 GRADE "B" (MIN. FY = 35 KSI): TUBE STEEL TO BE ASTM A500 (MIN. FY = 42 KSI)
- 5) ALL BOLTS SHALL BE ASTM A-325 UNLESS NOTED OTHERWISE AND SHALL CONFORM TO AISC 360-16. REGULAR THREADED ROD SHOULD BE ASTM A36. HIGH STRENGTH THREADED ROD SHALL BE ASTM A449.
- 6) ALL STRUCTURAL STEEL AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMENDED TO DATE. FABRICATOR TO BE LICENSED.
- 7) SHOP WELDING TO BE ELECTRIC-ARC PROCESS BY QUALIFIED AND CERTIFIED WELDERS BY THE CITY OF SAN JOSE USING APPROVED AND PROPER ELECTRODES. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL HAVE A FILLER METAL WITH A

NOTCH TOUGHNESS OF 20 FOOT-POUNDS AVERAGE AT ZERO DEGREES FAHRENHEIT.

- 8) ALL STRUCTURAL STEEL SHALL BE PAINTED ONE SHOP COAT AND FIELD TOUCH-UP WITH SELF-CROSS LINKING HYDROPHOBIC ACRYLIC PRIMER AS NECESSARY. (FIELD PAINTING: TOUCH-UP ALL DAMAGED PAINT, BOLTS AND WELDS.)
- 9) SHOP DRAWINGS AND DETAILS FOR THE FABRICATION OF ANY STRUCTURAL STEEL SHALL BE APPROVED BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR THEIR REVIEW PRIOR TO FABRICATION. THE STEEL ERECTOR SHALL PROVIDE ALL ERECTION BRACING REQUIRED TO MAINTAIN STRUCTURE PLUMB AND PROPERLY BRACED DURING CONSTRUCTION.
- 10) SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL FIELD WELDING IN ACCORDANCE WITH CBC 2022 SECTION 1704, AS INDICATED ON THE PLANS. ALL FIELD WELDING BY LICENSED WELDERS
- 11) ONLY THAT FIELD WELDING INDICATED ON PLANS WILL BE PERMITTED.
- 12) NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. BURNING OF HOLES IS NOT PERMITTED.
- 13) ALL WELDING SHALL CONFORM TO 'AWS' SPECIFICATION FOR WELDING. SEE WELDING
- 14) ALL HEADED STUDS (FOR CONCRETE ANCHORAGE) SHALL BE MANUFACTURED BY 'NELSON' OR APPROVED EQUAL.
- WHERE FILLET WELD SIZE IS NOT INDICATED, USE 'AWS' MINIMUM SIZE BASED ON THE THICKNESS OF THE THICKER PART BEING WELDED, AS SPECIFIED IN AISC 360-16 SECTION J2.2.
- 16) ALL BUTT WELDS TO BE FULL PENETRATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 17) ALL STEEL BEAMS SHALL HAVE 1/4" PLATE WEB STIFFENERS AT 1/3 POINTS OF THEIR SPANS - TWO PLACES MINIMUM PER BEAM.
- 18) PROVIDE HOT DIP GALVANIZING OR 3" MINIMUM CONCRETE COVER AROUND STRUCTURAL STEEL BELOW GRADE.

RETAINING WALL SPECIFICATIONS

- 1) CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR TEMPORARY SHORING DURING RETAINING WALL CONSTRUCTION. VERTICAL CUTS IN EXCESS OF 5' SHALL HAVE THE UPPER PORTION TRIMMED BACK AT A 1:1 SLOPE BEFORE CONSTRUCTION COMMENCES.
- 2) SEE SOIL REPORT BY C2 EARTH INC., REPORT NUMBER 23062C-01L2, DATED OCTOBER 12, 2023, WHICH IS CONSIDERED A PART OF THESE PLANS. ALLOWABLE BEARING PRESSURE = 4,000 PSF. RECOMMENDATIONS THEREIN SUPERCEDES STRUCTURAL DRAWINGS AND SPECIFIC RETAINING WALL DETAILS FOR ADDITIONAL REQUIREMENTS. PROJECT SOILS REPORT SHALL TAKE PRECEDENCE OVER THESE NOTES AND SPECIFIC RETAINING WALL DETAILS .
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- 4) BEFORE BACKFILLING WALL, A GRANULAR DRAINAGE MATERIAL (SEE NOTE NUMBER 5) SHALL BE PLACED BEHIND THE WALL IN A CONTINUOUS 12" WIDE STRIP. THE DRAINAGE MATERIAL SHALL EXTEND THE FULL HEIGHT OF WALL UP TO 12" BELOW TOP OF THE HIGHER GRADE.
- GRANULAR DRAINAGE MATERIAL SHALL CONSIST OF 3/4" TO 1-1/2" CLEAN CRUSHED ROCK AND SHALL BE FREE OF ORGANIC MATERIAL, CLAY, OR OTHER DELETERIOUS MATERIAL.
- 6) DRAINAGE AND BACKFILL MATERIAL SHALL NOT BE PLACED UNTIL CONCRETE AND/OR MASONRY HAS REACHED DESIGN STRENGTH.
- 7) BACKFILLING AND COMPACTION:
- A) FREE-STANDING WALLS: DO NOT BACKFILL WALL UNIT UNTIL SEVEN (7) DAYS (MINIMUM) AFTER SOLID GROUTING OF WALL IS COMPLETED AND REACHED DESIGN STRENGTH. BACKFILL MATERIAL SHALL BE PLACED IN CONTINUOUS (FOR ENTIRE LENGTH OF WALL) 12" LIFTS AND COMPACTED WITH LIGHTWEIGHT TAMPERS. DO NOT FRAME WOOD STUD WALLS OR JOIST FLOORS, OR POUR CONCRETE SLABS (AT TOP OF RETENTION) UNTIL SEVEN (7) DAYS (MINIMUM) AFTER BACKFILLING AND COMPACTION OPERATION IS COMPLETE.
- ALL FOOTINGS SHALL BE POURED AGAINST UNDISTURBED GROUND OR APPROVED (BY SOILS ENGINEER) FILL.
- CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IF SUPERIMPOSED LOADING OCCURS FROM ADJACENT EXISTING FOUNDATIONS OR OTHER STRUCTURES WITHIN A DISTANCE EQUAL TO THE OVERALL HEIGHT OF THE WALL.
- 10) MAXIMUM UPHILL SLOPE BEHIND WALL (UNLESS NOTED OTHERWISE) SHALL BE 1 (VERTICAL) TO 2 (HORIZONTAL).
- 11) A FOUR INCH (4") MINIMUM DIAMETER PERFORATED DRAIN PIPE SDR 35 PVC (WITH PERFORATIONS PLACED DOWNWARD) SHALL BE PLACED AT THE BASE OF THE FOOTING AND COMPLETELY SURROUNDED BY GRANULAR DRAINAGE MATERIAL (SEE NOTE NUMBER 5). DRAIN PIPE SHALL HAVE A MINIMUM 2% SLOPE TO DAYLIGHT. ALL DRAINAGE AND WATERPROOFING SPECS SHALL BE BY OTHERS.
- 12) BEFORE GRANULAR DRAINAGE MATERIAL AND BACKFILL IS PLACED, THE ENTIRE BACKSIDE (RETENTION SIDE) OF WALL SHALL BE THOROUGHLY WATERPROOFED.
- 13) MIRAFI 140N FILTER FABRIC SHALL BE INSTALLED BETWEEN GRAVEL DRAINAGE MATERIAL (SEE NOTE NUMBER FOUR) AND BACKFILL MATERIAL, TO PREVENT INFILTRATION OF NATIVE SOILS OR BACKFILL MATERIAL INTO DRAINAGE MATERIAL.

TIMBER (CONTINUED)

- 21) ALL LUMBER SHALL CONFORM TO THE AMERICAN SOFTWOOD LUMBER STANDARD DOC
- 22) MAXIMUM MOISTURE CONTENT FOR ALL STRUCTURAL MEMBERS SHALL NOT EXCEED 19% (UNLESS SPECIFICALLY NOTED OTHERWISE).
- 23) FACE NAIL ALL DOUBLE 2X STUDS AND JOISTS TOGETHER WITH 16D AT 6" O.C., STAGGER NAILS TOP AND BOTTOM.
- 24) PROVIDE 2X SOLID FIRE BLOCKING IN ALL STUD WALLS AT A MAXIMUM OF 8'-0" VERTICAL SPACING.
- 25) PLACE ALL BEAMS WITH NATURAL CAMBER UPWARD.
- 26) NOTCHING AND HOLES IN STRUCTURAL MEMBERS SHALL CONFORM TO NOTES BELOW UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE, OR WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- 27) HOLES AND NOTCHES IN JOISTS:
- 28) NOTCHES IN THE TOP AND BOTTOM OF JOISTS SHALL NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN OR WITHIN 18" OF THE SUPPORTS.
- 29) HOLES BORED IN JOISTS SHALL NOT EXCEED ONE SIXTH OF THE JOIST DEPTH AND SHALL BE LOCATED WITHIN THE MIDDLE 2/3 OF THE SPAN AND WITHIN THE MIDDLE THIRD OF THE JOIST'S DEPTH.
- 30) HOLES AND NOTCHES IN STUDS, PLATES, AND SILLS: BORED HOLES MAY BE PLACED IN STUDS, PLATES ,AND SILLS PROVIDED THAT THEY ARE ACCURATELY CENTERED ABOUT STUD, SPACED A MINIMUM OF 12" APART AND THE HOLE DIAMETER DOES NOT EXCEED 25% OF THE STUD WIDTH. STUDS MAY BE NOTCHED PROVIDED NOTCH DEPTH DOES NOT EXCEED 25% OF STUD WIDTH, SHOULD THE BORED HOLE EXCEED 25%, CONTACT THE ARCHITECT AND THE STRUCTURAL ENGINEER. NON-BEARING PARTITIONS MAY BE BORED TO 40% OF WIDTH.
- 31) PROVIDE DOUBLE JOISTS BENEATH ALL NON-BEARING PARALLEL WALLS WITHOUT WALLS BELOW. PROVIDE SOLID BLOCKING BELOW WALLS WITH PERPENDICULAR FLOOR
- 32) ALL NAILS, BOLTS, SCREWS, HANGERS, WASHERS, NUTS, ETC., USED FOR CONSTRUCTION EXPOSED TO THE WEATHER IN IT'S FINAL POSITION SHALL BE FIRST QUALITY HOT-DIPPED GALVANIZED.
- 33) SHEARWALL SHEATHING NOTES:
- 34) PLYWOOD SHEARWALL NAILING: SEE PLAN AND SHEARWALL SCHEDULE FOR 3X FRAMING MEMBERS REQUIRED AT ADJOINING PANEL EDGES AND BOTTOM SILL PLATES. ALSO USE 3X FRAMING AT BOUNDARIES IF NAILING IS SPACED LESS THAN 4"" O.C. A MINIMUM OF 1/2" EDGE DISTANCE SHALL BE PROVIDED FROM THE EDGE OF THE PLYWOOD PANEL TO THE NAILING.
- 35) SHEAR PANELS: SEE DETAILS AND SHEAR WALL SCHEDULE. SHEAR WALLS TO EXTEND FULL LENGTH OF WALL BETWEEN DOOR OR WINDOW OPENINGS OR END OF WALL UNLESS NOTED OTHERWISE. PLYWOOD SHEATHING AND FRAMING MUST EXTEND THE FULL HEIGHT OF THE WALL TO THE ROOF OR FLOOR DIAPHRAGM ABOVE - NOT TO CEILING ONLY. SEE TYPICAL SHEAR TRANSFER DETAILS FOR THE PROPER CONNECTION OF THE ROOF AND FLOOR DIAPHRAGMS TO ALL SHEAR WALLS. PLYWOOD SHEAR WALLS TO BE BLOCKED AND NAILED WITH COMMON NAILS.
- THE USE OF NAIL GUNS FOR SHEARWALL NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND APPROVAL BY THE ENGINEER PROIR TO FRAMING. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF THE NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- ALL EXTERIOR WALLS SHALL RECEIVE ONE-HALF INCH PLYWOOD WRAP. NON-SHEARWALL AREAS (IE ABOVE AND BELOW WINDOWS AND DOORS, OR WALLS NOT DESIGNATED AS SHEARWALLS ON PLANS, ETC.) DO NOT NEED TO BE BLOCKED. BUT DO NEED TO HAVE ONE-HALF INCH PLYWOOD. SEE FRAMING PLAN NOTES AND SHEARWALL SCHEDULE. MINIMUM PLYWOOD WALL WILL BE #2 WALL PER SHEARWALL
- 38) WHERE PLYWOOD OCCURS ON BOTH SIDES OF A WALL. THE PLYWOOD JOINTS ON OPPOSITE SIDES SHALL NOT OCCUR OVER THE SAME STUDS OR BLOCKING.
- 39) ALL NAILS SHALL BE COMMON WIRE NAILS. AT EXISTING WALLS, #8 X 3 INCH FLAT HEAD WOOD SCREWS AT 6" O.C. VERTICALLY MAY BE USED IN PLACE OF 10D COMMON NAILS.
- 40) EACH PLYWOOD SHEET SHALL HAVE A MINIMUM AREA OF 8 SQUARE FEET AND A MINIMUM DIMENSION OF 2 FEET IN ANY DIRECTION. JOINTS NEED NOT BE STAGGERED AT WALLS. PLYWOOD MAY BE PLACED WITH GRAIN PARALLEL TO STUDS.
- 41) SIMPSON A35 OR LTP4 FRAMING CLIPS SHALL BE USED AT DOUBLE TOP PLATE TO BLOCKING AT ALL FLOOR LEVELS, SEE SHEAR TRANSFER DETAILS, SPACING SHALL BE PER PLAN AND SHEAR WALL SCHEDULE AT SHEARWALLS. EXCEPTION: SHEATHING EDGES BREAK AT RIM JOIST / BLOCKING (SEE STANDARD AND ALTERNATE SHEAR TRANSFER DETAILS - TYPICAL). AT NON-SHEARWALL AREAS (ABOVE OPENINGS, ETC.) MAXIMUM SPACING SHALL BE AT 32" O.C. TYPICAL. WOOD SILL PLATES SHALL BE ATTACHED PER SHEARWALL SCHEDULE AND PLAN, AT NON-SHEARWALL AREAS (BELOW OPENINGS, ETC.) MAXIMUM NAIL SPACING FOR SILL PLATE ATTACHMENT IS 16D AT 6" O.C. INTO BLOCKING BELOW - TYP.
- 42) WATERPROOFING: EXTERIOR STRUCTURAL WOOD PANEL SHEAR WALLS SHALL BE COVERED WITH A MINIMUM OF 2 LAYERS 15# FELT UNDERLAYMENT PRIOR TO PLACING FINISH MATERIAL.
- 43) STUCCO LATH NAILING FOR SHEARWALL APPLICATIONS (90PLF) SHALL BE: 12 Ga., 1-1/2" LONG, 3/8" DIAMETER HEAD, GALVANIZED AND BE FURRED A MINIMUM OF 1/4". SPACING SHALL BE 3" O.C. FOR NON-SHEARWALL APPLICATIONS THE SAME NAIL MAY BE USED AT 6" O.C.
- 44) HOLD-DOWN CONNECTORS: ALL BOLT HOLES IN WOOD POSTS ARE TO BE 1/16" MAXIMUM OVERSIZED. ALL CONNECTORS ARE TO BE TIGHTENED BEFORE WALL IS CLOSED UP. LEAVE ENOUGH SPACE BETWEEN SILL AND HOLDOWN TO ALLOW FOR SOME SLIP AT POST WHEN TIGHTENED. PLATE WASHERS SHALL BE USED ON THE WOOD POST SIDE OF THE HOLDOWN CONNECTION, WASHER SIZES ARE PER LIST
- 45) HOLDOWNS SHALL STACK UNLESS INTERRUPTED BY A BEAM. HOLDOWNS SHOWN ON PLANS ARE FOR THE FRAMING LEVEL BELOW.
- 46) APPROVED PLATE WASHERS, IN LIEU OF CUT WASHERS, SHALL BE PROVIDED FOR ALL PLYWOOD SHEARWALL SILL PLATE ANCHOR BOLTS. FOLLOWING ARE PLATE WASHER SIZES:
 - 1/2" DIA. BOLT 2" x 2" x 3/16" 5/8" DIA. BOLT 2.5" x 2.5" x 1/4" 3/4" DIA. BOLT 2.75" x 2.75" x 5/16" 7/8" DIA. BOLT 3" x 3" x 5/16"

1" DIA. BOLT 3.5" x 3.5" x 3/8"

- FRAMING: 2X AND SMALLER TO BE DOUGLAS FIR GRADE #2 OR BETTER UNLESS NOTED OTHERWISE. 4X AND LARGER TO BE #1 OR BETTER UNLESS NOTED OTHERWISE. POSTS TO BE DOUGLAS FIR #1. STUDS AT BEARING WALLS TO BE DOUGLAS FIR #2 OR BETTER AND STUDS AT NON-BEARING WALLS TO BE STUD GRADE OR BETTER. ALL LUMBER MUST BE GRADE MARKED.
- FOUNDATION SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR (PTDF). SEE SHEAR WALL SCHEDULES AND FOUNDATION AND FRAMING PLANS FOR ANCHOR BOLT SPACING. (MAXIMUM SPACING FOR SILL PLATE BOLTING SHALL BE 48" O.C. - 5/8" DIAMETER X 7" EMBEDMENT IN CONCRETE ANCHOR BOLT WITH 1-7/8" MIN. EDGE DISTANCE. PROVIDE A MINIMUM OF TWO BOLTS PER PLATE WITH ONE BOLT WITHIN 12" OF EACH END OF PLATE). PLATE WASHERS REQUIRED FOR SILLS ON CONCRETE OR MASONRY. ALL BOLTS GALVANIZED.
- BOLTS IN TIMBER TO HAVE STANDARD CUT WASHERS, UNLESS NOTED OTHERWISE. BOLTS USED WITH STEEL PLATES OR ANGLES MAY NOT REQUIRE WASHERS. HOLES FOR BOLTS TO BE A MAXIMUM OF 1/16 INCH LARGER THAN BOLT DIAMETER. ALL BOLTS SHALL CONFORM TO ASTM A325-07A.
- 4) ALL NAILS SHALL BE COMMON WIRE NAILS. 16D SINKERS MAY BE USED FOR FRAMING, I.E. ATTACHING STUDS TOGETHER OR TO PLATES. COMMONS SHALL BE USED FOR ALL SHEARWALL NAILING, ROOF AND FLOOR SHEATHING, TOP PLATE SPLICING, HARDWARE CONNECTION, ETC. NAILS SHALL NOT BE SPACED CLOSER THAN 1/2 THEIR LENGTH, NOR CLOSER TO THE EDGE OF THE MEMBER THAN 1/4 THEIR LENGTH, EXCEPT FOR SHEATHING. SUB-BORE WHEN NAILS TEND TO SPLIT WOOD. DIAMETER TO BE 0.75 TIMES NAIL DIAMETER.
- 5) STRUCTURAL HARDWARE CALLOUTS (JOIST HANGERS, POST BASES, HOLDOWNS AND ALL OTHER HARDWARE) SHOWN ON STRUCTURAL DRAWINGS REFER TO REFERENCE NUMBERS CONTAINED IN THE LATEST EDITION SIMPSON STRONG-TIE CO. INC. CATALOG, UNLESS NOTED OTHERWISE. EQUIVALENT HARDWARE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- PLYWOOD FOR SHEARWALLS SHALL BE C.D.X. STRUCTURAL I (OR BETTER), 5-PLY WITH EXTERIOR GLUE, AS GRADED BY A.P.A. PLYWOOD FOR FLOORS AND ROOFS SHALL BE CDX EXTERIOR GRADE, PLYWOOD SHALL CONFORM TO DOC PS 1. STRUCT ORIENTED STRAND BOARD IS ALSO ACCEPTABLE IF APPROVED BY THE ARCHITECT.
- ALL HORIZONTAL PLYWOOD SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS AND WITH STAGGERED JOINTS.
- SHEATHING: (PLYWOOD DIAPHRAGMS MUST BE PRODUCT STANDARD DOC PS 1 DOUGLAS FIR-LARCH, CDX)

ROOF SHEATHING:

5/8" CDX PLYWOOD (INDEX 32/16) NAILED WITH 10D COMMON WIRE NAILS (0.148" DIAMETER X 2-1/4" LONG - EZCODE ID "S") AT 6" ON CENTER AT BUILDING BOUNDARIES AND AT PANEL EGES AND AT 12" ON CENTER AT INTERMEDIATE SUPPORTS. PANEL EDGES TO BE BLOCKED WITH FLAT 2X4'S.

FLOOR SHEATHING:

3/4" CDX PLYWOOD - TONGUE AND GROOVE - (INDEX 32/16) NAILED WITH 10D COMMON WIRE NAILS (0.148" DIAMETER X 2-3/8" LONG - EZCODE ID "T") AT 4" ON CENTER AT BUILDING BOUNDARIES, 6" ON CENTER AT PANEL EDGES, 10" ON CENTER AT INTERMEDIATE SUPPORTS. PANEL EDGES TO BE BLOCKED WITH FLAT 2X4'S. (GLUE AND NAIL ALL PLYWOOD).

- 9) ALL FLUSH FRAMED JOISTS OR BEAMS SHALL SEAT IN 'SIMPSON' JOIST HANGERS: 2X JOISTS TO BEAMS - LU; 4X BEAMS TO BEAMS - HU; 6X BEAMS TO BEAMS -HUTF: 6X BEAMS - HW.W HANGERS.
- 10) BUILT-UP OR MULTIPLE JOIST BEAMS SHALL NOT BE SUBSTITUTED FOR SOLID
- 11) PROVIDE 2X SOLID BLOCKING BETWEEN ALL JOISTS AND RAFTERS AT ALL SUPPORTS AND UNDER ALL PARTITIONS. 2 X 10 OR LARGER JOISTS AND RAFTERS SHALL BE SUPPORTED LATERALLY BY BLOCKING AT INTERVALS NOT EXCEEDING EIGHT FEET AND AT ALL SUPPORTS. REFER TO IBC SECTION 2308.2 FOR ALL BLOCKING REQUIREMENTS. 2X10 ROOF JOISTS WITH RIP STRIPS ABOVE SHALL ALSO BE BLOCKED AT EIGHT FOOT INTERVALS. WOOD WEB JOISTS (TRUS JOIST, ETC) DO NOT REQUIRE MID SPAN BLOCKING, HOWEVER MICROLLAM BLOCKING/RIMS (LVL) SHALL BE USED ABOVE AND BELOW ALL WALLS. SEE ARCHITECTURAL PLANS FOR FIRE BLOCKING REQUIREMENTS.
- 12) LAG SCREWS SHALL BE TURNED NOT DRIVEN INTO PRE-DRILLED HOLES OF 3/4 THE SHANK DIAMETER. AND FULL DIAMETER FOR SMOOTH SHANK PORTION. SOAP. PARAFFIN OR OTHER APPROVED LUBRICANT SHALL BE USED ON THREADS. CARE SHALL BE TAKEN NOT TO OVER-TORQUE SCREWS.
- 13) SPLICES IN TOP PLATES SHALL HAVE A MINIMUM 4 FOOT LAP SPLICE WITH 20-16D NAILS. DOUBLE TOP PLATES SHALL BE NAILED TOGETHER TYPICALLY WITH 16D AT 16" O.C. ANY BREAKS IN TOP PLATES FOR BEAMS, ETC. SHALL BE STRAPPED
- 14) ALL BEAMS SHALL BE SUPPORTED BY POSTS OR GIRDERS. FOR 4X8 AND SMALLER BEAMS 2-2X4 POSTS SHALL BE USED UNLESS NOTED OTHERWISE. FOR LARGER BEAMS A 4X4 POST SHALL BE USED UNLESS NOTED OTHERWISE. ALL POSTS SHALL PROVIDE FULL BEARING WIDTH FOR THE BEAM UNLESS NOTED OTHERWISE.
- 15) ALL POSTS SHALL CONTINUE THROUGH FLOORS (OR SOLID BLOCKED BETWEEN FLOORS) UNTIL A BEAM OR FOUNDATION IS ENCOUNTERED.

16) ALL 4X6 POSTS, OR SMALLER, INSIDE WALLS MAY BEAR ON THE SILL PLATE

TOGETHER WITH MST48 BY SIMPSON.

10'-0" SPAN.

4X8 OR LARGER POSTS, IN WALLS, SHALL BE SEATED IN SIMPSON POST BASES. 17) UNMARKED HEADERS SHALL BE THE FOLLOWING UNLESS NOTED OTHERWISE: SUPPORTING CEILING AND ROOF: 4X4 UP TO 4'-0" SPAN; 4X6 UP TO 6'-0" SPAN ; 4X8 UP TO 8'-0" SPAN ; 4X10 UP TO 10'-0" SPAN ; 4X12 UP TO 12'-0" SPAN. SUPPORTING 2ND FLOOR, CEILING, AND ROOF: 4X4 UP TO 3'-0" SPAN; 4X6 UP TO 5-0" SPAN: 4X8 UP TO 7-0" SPAN: 4X10 UP TO 9-0" SPAN: 4X12 UP TO

UNLESS NOTED OTHERWISE. ISOLATED POSTS SHALL SEAT IN SIMPSON "CB" BASES,

- 18) MINIMUM WALL STUD SIZES WALLS: 2X4 AT 16" O.C. UP TO 9'-0" TALL; 2X6 AT 16" O.C. UP TO 13'-0": 2X8 AT 16" O.C. UP TO 17'-6" TALL. ALL STUDS FOR WALLS WILL CONTINUE FULL HEIGHT BETWEEN FLOORS. UNLESS BROKEN BY CEILING JOISTS OR FLOOR ON AT LEAST ONE SIDE OF THE WALL. STUDS SUPPORTING TWO FLOORS SHALL BE 3X4 OR 2X6 AT 16" O.C. MINIMUM.
- 19) NAILING TO COMPLY WITH NAILING SCHEDULE IBC TABLE NO. 2304.9.1 UNLESS NOTED OTHERWISE. NAILING REQUIREMENTS STATED IN THE SPECIFICATIONS, PLANS OR DETAILS SHALL SUPERSEDE TABLE 23-II-B-1.
- 20) TABLE NO. 23-II-B-1 NAILING SCHEDULE (ABBREVIATED VERSION):

CONNECTION NAILING A) JOIST TO SILL OR GIRDER (TOENAIL) 3-8D B) BRIDGING TO JOIST, TOENAIL EACH END 2-8D C) SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 16D AT 16" O.C. D) TOP PLATE TO STUD, END NAIL 2-16D E) STUD TO SOLE PLATE 4-8D, TOENAIL OR 2-16D, END NAIL F) DOUBLE STUDS, FACE NAIL 16D AT 16" O.C. G) DOUBLED TOP PLATES, FACE NAIL 16D AT 16" O.C. H) TOP PLATE INTERSECTIONS, FACE NAIL 2-16D I) CONTINUOUS HEADER, TWO PIECES 16D AT 16" O.C. ALONG EACH EDGE.

L) CEILING JOIST, LAPS OVER PARTITIONS. FACE NAIL 3-16D

M) CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL 3-16D

O) 1" BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8D

J) CEILING JOISTS TO PLATE, TOENAIL 3-8D K) CONTINUOUS HEADER TO STUD, TOENAIL 4-8D

P) BUILT-UP CORNER STUDS 16D AT 24" O.C.

N) RAFTER TO PLATE, TOENAIL 3-8D

PROJ. ENG. / DRAWN: DEC. 10, 2023

AS NOTED

23B03

SHEET NUMBER:

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REVISIONS

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No. 84917 Exp. 03-31-24

NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEE

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PROJECT NUMBER:

SCALE:

D. WELDING AND FABRICATION DETAILS

1. BASE METAL JOINT PREPARATION

- A. BASE METAL PREPARATION SHALL BE IN COMPLY WITH AWS D1.1/D1.1M: 2014
- B. ALL BEAM FLANGE TO COLUMN FLANGE WELDS ARE TO BE MADE WITH AN
- AWS PREQUALIFIED CJP GROOVE WELDED JOINT DETAIL. C. BEVEL, FIT-UP AND DETAIL TOLERANCES SHALL BE AS REQUIRED BY THE SELECTED PREQUALIFIED WELDED JOINT DETAIL.
- D. WHENEVER POSSIBLE, USE THE AWS PREQUALIFIED CJP GROOVE WELDED JOINT PER STRUCTURAL DETAIL AND THE FOLLOWING: I. USE SINGLE BEVEL CJP GROOVE WELDS MADE WITH A 30 DEGREES
- THICKNESS EXCEED 1-1/2 INCH. II. "AS FIT-UP" AND "AS DETAILED" SHALL BE THE MAXIMUM TOLERANCES. III. MEET ALL PREQUALIFIED WPS VARIABLES IN TABLE 5.

GROOVE ANGLE OR DOUBLE BEVEL CJP GROOVE WELDS WHEN FLANGE

WELD ACCESS HOLE

- A. WHERE WELD ACCESS HOLES ARE PROVIDED, THEY SHALL BE DETAILED AS ILLUSTRATED IN STRUCTURAL DETAILS.
- B. NOTCHES AND GOUGES SHALL BE REPAIRED FOLLOWING A WPS APPROVED BY THE ENGINEER OF RECORD.
- . WELD ACCESS HOLES SHALL BE PREPARED BY GRINDING TO A SUITABLE FINISH IN ACCORDANCE WITH AISC LRFD SPECIFICATION SECTION J1.6 AND PROVIDED WITH A MINIMUM RADIUS OF 3/8 INCH AS ILLUSTRATED IN STRUCTURAL DETAILS.

3. BACKING BAR

- A. BACKING BAR USED IN CONNECTIONS WITH A CJP GROOVE WELD OF BEAM FLANGE TO COLUMN FLANGE SHALL BE REMOVED EXCEPT THAT TOP FLANGE BACKING BAR ATTACHED TO THE COLUMN BY A CONTINUOUS FILLET WELD ON THE EDGE BELOW THEE CJP GROOVE WELD NEED NOT BE REMOVED.
- B. FOLLOWING REMOVAL OF BACKING BAR, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL, AND BACK WELDED. A REINFORCING FILLET WELD WITH A MINIMUM LEG SIZE OF 5/16 INCH OR THE ROOT OPENING PLUS 1/16 INCH, WHICHEVER IS LARGER, SHALL BE PROVIDED. THE REINFORCING FILLET WELD NEED NOT BE GROUNDED.
- WHEN BACKING BAR IS OTHER THAN AWS D1.1/D1.1M: 2014 TABLE 3.1 AND SECTION 5.2.2 APPROVED BASE METAL IS USED, THE FOLLOWING SHALL
- I. CERAMIC, FLUX OR GLASS TAPE MAY BE USED PROVIDED THE MANUFACTURE'S RECOMMENDATIONS ARE FOLLOWED.
- II. WHEN A NON-METALLIC BACKING BAR IS USED, THE WPS AND THE WELDER SHALL BE QUALIFED USING THE TYPE OF BACKING BAR INTENDED FOR
- III. NONFERROUS METALLIC (E.G. COPPER) BACKING MATERIALS ARE NOT PERMITTED.

4. WELD TAB

- . WELD TABS SHALL BE ALIGNED PARALLEL TO THE JOINT PREPARATION. B. NO WELD DAMS ARE ALLOWED.
- WELD TABS SHALL EXTEND BEYOND THE EDGE OF THE JOINT A MINIMUM DISTANCE EQUAL TO THE PART THICKNESS, BUT NOT LESS THAN ONE INCH.
- D. WELD TAB SHALL BE REMOVED UPON COMPLETION OF THE WELDED JOINT AS I. NO MORE THAN 1/8 INCH BEYOND THE EDGE OF THE JOINT SHALL REMAIN,
- EXCEPT AT CONTINUITY PLATE WHERE UP TO 1/4 INCH IS ACCEPTABLE. II. EDGES OF THE WELD TAB SHALL BE FINISHED TO A SURFACE ROUGHNESS VALUE OF 500 MICRO INCH OR BETTER. GRINDING TO A FLUSH CONDITION
- IS NOT REQUIRED. E. GOUGES AND NOTCHES ARE NOT PERMITTED. THE TRANSITIONAL SLOPE OF ANY AREA WHERE GOUGES AND NOTCHES HAVE BEEN REMOVED SHALL NOT EXCEED 1:5.
- F. MATERIAL REMOVED BY GRINDING THAT EXTENDS MORE THAN 1/16 INCH BELOW THE SURFACE OF THE BASE METAL SHALL BE FILLED WITH WELD METAL. THE CONTOUR OF THE WELD AT THE ENDS SHALL PROVIDE A SMOOTH TRANSITION, FREE OF NOTCHES AND SHARP CORNERS.

5. CONTINUITY PLATE

- A. CONTINUITY PLATES SHALL BE DETAILED AS ILLUSTRATED IN STRUCTURAL B. THE WELD ATTACHING THE CONTINUITY PLATE TO THE COLUMN FLANGE SHALL
- BE AS FOLLOWS: I. USE A CJP GROOVE WELD FOR THE FULL LENGTH OF THE GROOVE PREPARATION.
- II. WHEN BACKING BARS ARE OMITTED, THE ROOT SHALL BE BACKGOUGED AND BACK WELDED.
- III. WHEN BACKING BARS ARE USED AND REMAIN IN PLACE, BACKING BARS SHALL BE ATTACHED TO THE COLUMN FLANGES WITH A REINFORCING FILLET WELD.
- IV. FILLET WELD SHALL NOT BE USED TO CONNECT BACKING BARS TO CONTINUITY PLATES.
- V. THE FILLET WELD SIZE NEED NOT EXCEED THE MINIMUM SIZE REQUIREMENTS OF AWS D1.1/D1.1M: 2014 TABLE 5.8. WELD TERMINATIONS NEAR THE END OF THE COLUMN FLANGE TIPS MAY BE
- COMPLETED USING WELD TABS AS FOLLOWS: WELD TABS MAY BE STEEL OR NONFUSIBLE MATERIAL. II. WELD TERMINATIONS NEAR THE RADIUS OF THE COLUMN NEED NOT BE MADE USING WELD TABS. THE USE OF SMALL NONFUSIBLE WELD TABS TO ASSIST IN WELD TERMINATIONS IS PERMITTED.
- III. WELD TABS SHALL BE REMOVED FOLLOWING COMPLETION OF WELDING. D. CONTINUITY PLATES MAY BE WELDED TO THE COLUMN WEB WITH GROOVE WELDS, FILLET WELDS, OR A COMBINATION OF THE TWO. FILLET WELDS SHALL TERMINATE A MINIMUM DISTANCE OF 1/4 INCH FROM EACH END OF THE JOINT.

E. EXEMPTIONS

- REDUCTION FROM CERTAIN QUALITY ASSURANCE COMPONENTS OF THIS STANDARD QUALITY ASSURANCE PLAN, AS LISTED IN ITEM 2, ARE PERMITTED FOR THE FOLLOWING BUILDINGS OR STRUCTURES:
- A. ONE OR TWO FAMILY DWELLINGS NOT MORE THAN 1 STORY IN HEIGHT AND
- B. BUILDINGS OR STRUCTURES ACCESSORY TO RESIDENTIAL USES (SUCH AS CARPORT, STORAGE, GARAGE), AND
- C. MISCELLANEOUS STRUCTURES (SUCH AS WALKWAY, CANOPY, PATIO COVER, GAZEBO.STORAGE RACK). 2. BUILDINGS OR STRUCTURES, AS LISTED IN ITEM 1, ARE EXEMPT FROM
- PROVIDING THE FOLLOWING QUALITY ASSURANCE COMPONENTS: A. ELECTRODE STORAGE AND ATMOSPHERIC EXPOSURE, ITEM 5(F) AND 5(G) OF QUALITY ASSURANCE SPECIFICATIONS.
- PLASTIC HINGING ZONE PROTECTION, ITEM 6 OF QUALITY ASSURANCE. ADDITIONAL CVN NOTCH TOUGHNESS TESTING, ITEM 7 OF QUALITY ASSURANCE. NON-DESTRUCTIVE TESTING. ITEM 8 OF QUALITY ASSURANCE.
- PREHEAT AND INTERPASS TEMPERATURE, ITEM 4 OF WELDING PROCEDURES. POST WELD HEAT TREATMENT, ITEM 5 OF WELDING PROCEDURES.

STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE (CONT.)

C. WELDING PROCEDURES

- 1. BOTTOM BEAM FLANGE MOMENT CONNECTION WELDING WELDING THE BOTTOM FLANGE TO THE COLUMN FLANGE SHALL BE COMPLETED IN
- THE FLAT WELDING POSITION WITH THE FOLLOWING SEQUENCE: A. START WELDING FROM SIDE A (ONE SIDE OF THE BEAM) WITH A MAXIMUM 1/4 INCH THICK ROOT PASS BEYOND THE CENTER OF THE JOINT ON SIDE B (OTHER SIDE OF THE BEAM), REACHING PAST THE BEAM WEB THROUGH THE WELD ACCESS HOLE.
- B. AFTER THE ARC IS INITIATED, ELECTRODE TRAVEL SHALL PROGRESS TOWARD THE EDGE OF THE SIDE A BEAM FLANGE, TERMINATING ON THE SIDE A WELD
- C. THE SIDE A ROOT PASS, AND THE ROOT PASS DEPOSIT ON SIDE B, SHALL BE THOROUGHLY CLEANED TO ALLOW THE DEPUTY INSPECTOR TO VERIFY THAT THE RESULTING BEAD PROFILE IS SUITABLE FOR OBTAINING GOOD FUSION BY THE SUBSEQUENT ROOT PASS TO BE INITIATED FROM SIDE B. IF THE PROFILE IS NOT CONDUCIVE TO GOOD FUSION, THE START OF THE FIRST ROOT PASS SHALL BE GROUNDED, GOUGED, CHIPPED, OR OTHERWISE PREPARED TO ENSURE ADEQUATE PROFILE TO ACHIEVE FUSION.
- D. COMPLETE THE ROOT PASS ON SIDE B BEFORE ANY OTHER WELD PASSES ARE PERFORMED.
- E. THE ARC SHALL BE INITIATED AT THE START OF THE FIRST SIDE A ROOT PASS. AND ELECTRODE TRAVEL SHALL PROGRESS TOWARD THE EDGE OF THE SIDE B BEAM FLANGE, TERMINATING ON THE SIDE B WELD TAB.
- F. THE ABOVE SEQUENCE SHALL BE REPEATED FOR SUBSEQUENT WELD LAYERS, AND EACH WELD LAYER SHALL BE COMPLETED ON BOTH SIDES OF THE JOINT BEFORE A NEW LAYER IS DEPOSITED. THE ORDER OF OPERATIONS (SIDE A, THEN SIDE B, OR VICE VERSA) IS NOT RESTRICTED AND MAY VARY FOR EACH WELD LAYER. WELD PASSES SHALL BE PLACED IN HORIZONTAL LAYERS. EACH PASS SHALL BE THOROUGHLY CLEANED OF SLAG AND WIRE BRUSHED. EACH PASS SHALL BE VISUALLY INSPECTED BY THE DEPUTY INSPECTOR, AS DESCRIBED ABOVE IN STEP (C).
- 2. SEQUENCE FOR WELDING AT MULTIPLE LOCATIONS WHEN WELDING OCCUR AT MULTIPLE LOCATIONS OF WELDED STEEL MOMENT FRAME CONNECTIONS, THE FOLLOWING SEQUENCE SHALL BE FOLLOWED:
- A. WELD BOTH TOP AND BOTTOM BEAM FLANGES PRIOR TO ANY SUPPLEMENTAL WELDING TO THE BEAM WEB OR SHEAR TAB.
- ONLY FIELD WELDING INDICATED ON PLANS SHALL BE PERMITTED. C. FIELD WELDING OF WEB SHEAR PLATES WITH BOLTS SHALL OCCUR AFTER FIELD WELDING OF BEAM FLANGES TO COLUMN FLANGE.

HIGH STRENGTH BOLTS SHALL BE IN THE SNUG TIGHT CONDITION PRIOR TO

WELDING. E. HIGH STRENGTH BOLTS SHALL BE FULLY TENSIONED UPON COMPLETION OF ALL WELDING ACTIVITIES.

3. WELDING TECHNIQUE

- A. STRINGER BEADS SHALL BE USED DURING ALL WELDING OPERATIONS. MAXIMUM BEAD WIDTH, BEAD THICKNESS, AND LAYER THICKNESS SHALL BE CONSIDERED. WEAVING IS NOT PERMITTED, EXCEPT WHEN THE WPS APPROVED BY THE ENGINEER OF RECORD LIMITS ELECTRODE OSCILLATION TRANSVERSE TO THE WELD AXIS TO A MAXIMUM OF:
- I. 3D FOR 1G/1F, 2G/2F, AND 4G/4F WELD POSITIONS, OR II. 5D FOR THE 3G/3F POSITION, WHERE D = ELECTRODE DIAMETER. B. WELDING LAYERS SHOULD PROGRESS FROM THE FACE OF THE COLUMN
- FLANGE OUTWARD TOWARD THE GROOVE FACE OF THE BEAM FLANGE AS ILLUSTRATED IN STRUCTURAL DETAILS.
- PREHEAT AND INTERPASS TEMPERATURE
- A. THE MINIMUM PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS IN TABLE 4 OF SHEET 2 SHALL BE OBSERVED. SPECIAL ATTENTION SHALL BE GIVEN TO AWS D1.1/D1.1M: 2014 SECTION 3.5.1 AND SECTION 5.6 FOR THE THICKNESS OF THE BASE METAL TO BE WELDED.
- B. PREHEAT AND ALL SUBSEQUENT INTERPASS TEMPERATURES SHALL BE MAINTAINED DURING THE WELDING OPERATION FOR A DISTANCE AT LEAST EQUAL TO THE THICKNESS OF THE THICKER WELDED PART, BUT
- NOT LESS THAN 3", IN ALL DIRECTIONS FROM THE POINT OF WELDING. C. WHERE PLATES ARE OF DIFFERENT THICKNESS. THE HIGHER MINIMUM PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS OF THE THICKER PLATE SHALL
- D. MAXIMUM PREHEAT AND INTERPASS TEMPERATURE SHALL NOT EXCEED THE
- I. 550 DEGREES FAHRENHEIT, OR II. THE MAXIMUM TEMPERATURE RECOMMENDED BY THE MANUFACTURER.

5. POST WELD HEAT TREATMENT

- POST WELD HEAT TREATMENT MAY REDUCE CRACKING TENDENCIES DUE TO POSSIBLE HYDROGEN EMBRITTLEMENT. POST WELD HEAT TREATMENT SHALL BE
- A. APPLY HEAT IN THE 400°F TO 600°F RANGE AFTER COMPLETION OF WELDING.
- B. COMPLYING WITH THE CONDITIONS OF AWS D1.1/D1.1M: 2014 SECTION 3.14 AND SECTION 5.8.
- C. ALTERNATIVELY. THE USE OF INSULATING BLANKETS AFTER THE COMPLETION OF WELDING IS PERMITTED TO CONTROL THE COOLING OF THE CONNECTION TO AMBIENT TEMPERATURE.

STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE (CONT.)

- D. PLASTIC HINGING ZONES SHALL BE DEFINED BY PERMANENT MARKINGS SUCH
- AS PAINT OR INK, PER STRUCTURAL DETAILS. E. A NOTE, AS ILLUSTRATED IN STRUCTURAL DETAILS, SHALL BE PROMINENTLY PLACED ON THE STRUCTURAL PLANS AND THE CONSTRUCTION DOCUMENTS OF ALL TRADES.
- F. WELDED, BOLTED, SCREWED, OR SHOT-IN (POWDER DRIVEN) ATTACHMENTS FOR PERIMETER EDGE ANGLES, SHEAR STUDS, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING, OR OTHER CONNECTIONS SHALL NOT BE PERMITTED WITHIN THE PLASTIC HINGING ZONES.
- G. ANY PENETRATIONS OR DAMAGE FROM TEMPORARY WELDED ATTACHMENTS WITHIN THE PLASTIC HINGING ZONES SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD.
- H. INITIALLY, THE PLASTIC HINGING ZONE "WARNING SIGN". AS ILLUSTRATED IN STRUCTURAL DETAILS, MAY BE TEMPORARY. HOWEVER, THE TEMPORARY "WARNING SIGN" SHALL BE REPLACED BY A PERMANENT "WARNING SIGN" BEFORE PROJECTCOMPLETION. THIS SIGN AND IDENTIFICATION OF THE PLASTIC HINGING ZONE SHALL BE MAINTAINED DURING CONSTRUCTION; AND MAY REQUIRE REPAIR AFTER OPERATIONS SUCH AS FIREPROOFING.
- SIGNS SHALL BE AFFIXED TO THE BEAM AND LOCATED WITHIN THE PLASTIC HINGING ZONE. THE CITY BUILDING INSPECTOR MAY ACCEPT ALTERNATE METHODS OF ATTACHING THE "WARNING SIGN" TO THE PLASTIC HINGING ZONE. 7. ADDITIONAL CHARPY V-NOTCH TOUGHNESS (NOT REQUIRED FOR OMF) WELDS AT THE LOCATIONS INDICATED BELOW SHALL BE MADE WITH FILLER
- METAL HAVING A CVN TOUGHNESS OF 20 FT-LBF AT -20 DEGREES FAHRENHEIT AND 40 FT-LBF AT 70 DEGREES FAHRENHEIT AS DETERMINED BY TEST PROCEDURE PRESCRIBED IN THE AISC SEISMIC PROVISIONS, APPENDIX X " WELD METAL / WELDING PROCEDURE SPECIFICATION TOUGHNESS VERIFICATION
- A. BEAM FLANGES TO COLUMNS,
- B. SINGLE PLATE SHEAR CONNECTIONS TO COLUMNS, C. BEAM WEBS TO COLUMNS, AND
- D. COLUMN SPLICES.
- 8. NON-DESTRUCTIVE TESTING (NDT) REQUIREMENTS A. THE MINIMUM NON-DESTRUCTIVE TESTING AT EACH WELD JOINTS OR PARTS SHALL BE CONDUCTED AT THE LOCATIONS AND FREQUENCIES AS SPECIFIED IN
- TABLE 2 AND TABLE 3 RESPECTIVELY. B. A COPY OF EACH NDT REPORT SHALL BE PROVIDED TO THE CONTRACTOR, ENGINEER OF RECORD, DEPUTY INSPECTOR, AND CITY BUILDING INSPECTOR WITH THE FOLLOWING INFORMATION:
- I. DOCUMENT THE ACCEPTED AND REJECTED WELDS. PARTS. OR JOINTS. IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. III. IDENTIFY THE TESTED WELD LOCATION IN THE STRUCTURE.
- C. NDT TECHNICIAN SHALL PERFORM THE FOLLOWING TASKS: COORDINATE THE NDT SCOPE AND SCHEDULE WITH THE DEPUTY INSPECTOR PERFORM NDT IN A TIMELY MANNER, SO AS NOT TO HINDER CONSTRUCTION WORK. AND TO DETECT WELDING PROBLEMS SOON AFTER OCCURRENCE
- SO THAT CORRECTIVE MEASURES WILL BE TAKEN BY THE CONTRACTOR. III. MARK THE INSPECTED AND ACCEPTED WELDS, PARTS, AND JOINTS WITH A DISTINGQUISHING MARK O DIE STAMP.

9. DOCUMENTATIONS THE REPORTS LISTED IN TABLE 1 SHALL BE SUBMITTED TO THE CITY BUILDING INSPECTOR.

STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE (CONT.)

D. STATE IN THE REPORT THAT THE STEEL MOMENT FRAME SYSTEM VISUALLY CONFORMS WITH THE APPROVED STRUCTURAL PLANS AND SPECIFICATIONS.

4. DEPUTY INSPECTION

- THE FOLLOWING ARE THE BASIC QUALITY ASSURANCE RESPONSIBILITIES OF THE DEPUTY INSPECTORS:
- A. ARRIVE ON THE JOB IN SUFFICIENT TIME TO VERIFY THE PERMIT INFORMATION, CHECK FOR PRIOR INSPECTIONS AND/OR APPROVALS BY THE CITY BUILDING INSPECTOR OR PREVIOUS DEPUTY INSPECTORS. CHECK THE QUALITY OF ALL MATERIALS AND BECOME FAMILIAR WITH THE APPROVED STRUCTURAL PLANS AND SPECIFICATIONS.
- B. VERIFY THAT STRUCTURAL STEEL DELIVERED IS FROM A FABRICATOR
- CURRENTLY LICENSED BY THE DEPARTMENT. C. IDENTIFY MATERIAL FROM AN OFFSITE FABRICATOR IN ACCORDANCE WITH LABC SECTION 2203 AND COMPARE TO THE APPROVED PLANS AND
- SPECIFICATIONS. D. VERIFY THAT EACH STEEL PIECE IS LABELED WITH THE APPROVED
- FABRICATOR'S SHOP NAME AND LICENSE NUMBER. VISUAL CHECK SHOP WELDS, JOINT PREPARATION, FAYING SURFACES, INDENT STAMPS AND COLOR CODES OF HIGH STRENGTH STEEL, EXCESSIVE MILL SCALE OR LAMINATION, AND DIMENSIONAL CONFORMITY WITH THE APPROVED
- ENSURE THAT WELDING COMPLIES WITH AWS D1.1/D1.1M: 2014. INSPECT, BEFORE ANY WELDING BEGINS, JOINT PREPARATION, FIT-UP, CONDITION OF SURFACES TO BE WELDED, STORAGE AND USE OF ELECTRODES, CURRENT LICENSE OF ALL WELDERS. AND VOLTAGE/AMPERAGE OF WELDING
- MEASURE VOLTAGE/AMPERAGES NEAR THE ARC WITH A HAND HELD CALIBRATED AVERAGING TYPE METER. THE METER SHALL BE CALIBRATED NOT LESS THAN ONCE A YEAR. THIS EQUIPMENT SHALL BE USED BY THE FABRICATOR, ERECTOR, AND DEPUTY INSPECTOR
- DURING WELDING OPERATION, PROVIDE CONTINUOUS INSPECTION PARTICULARLY ON MULTIPLE PASS WELDS TO ASSURE THAT EACH PASS HAS BEEN PREPARED CORRECTLY, PREHEAT AND INTERPASS TEMPERATURES ARE MAINTAINED AND THAT FINISHED WELDS SHALL BE THE CORRECT SIZE AND WITHOUT REJECTABLE DISCONTINUITIES.
- AND VERIFY FAYING SURFACES ARE FREE OF BURRS, SCALE, RUST, GREASE OR ANYTHING THAT MAY INHIBIT FULL CONTACT. K. VERIFY CONNECTIONS INVOLVING HIGH STRENGTH BOLTS AND WELDS ARE

J. VERIFY TYPE AND SIZE OF BOLTS AND WASHERS, CHECK MILL CERTIFICATES,

- FABRICATED AND ERECTED IN A SEQUENCE SPECIFIED BY THE ENGINEER OF
- L. VERIFY HIGH STRENGTH BOLTS ARE NOT WELDED OR DAMAGED BY PREHEATING.
- M. VERIFY WASHERS ARE ALWAYS INSTALLED WITH ALL BOLTS, EXCEPT A-490 BOLTS WHICH REQUIRE WASHERS UNDER BOTH ELEMENTS.
- PERFORM DEPUTY INSPECTOR OBSERVATION LISTED IN TABLE 6A. O. VERIFY THE ENGINEER OF RECORD HAS APPROVED THE WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) PREPARED BY THE FABRICATOR OR ERECTOR. IF VARIES FROM THESE SPECIFICAIONS THE WPS SHALL INCLUDE
 - I. ALL APPLICABLE CODE REQUIREMENTS, THIS STANDARD PLAN, AND ANY OTHER INFORMATION NECESSARY TO PRODUCE THE WELDS. II. LIST THE APPLICABLE BASE METAL TYPES AND THICKNESSES.
- III. LIST THE WELDING JOINT DETAILS, INCLUDING JOINT TYPE, WELD TYPE, JOINT GEOMETRY, AND APPLICABLE DIMENSIONS. INDIVIDUAL WELD PASSES SHALL BE IDENTIFIED IN SKETCHES AND NUMBERED TO IDENTIFY THE SEQUENCE OF THEIR DEPOSITION. THE SKETCHES SHALL IDENTIFY THE MAXIMUM LAYER THICKNESSES AND BEAD WIDTHS. IN NO CASE SHALL LAYER THICKNESSES EXCEED 1/4 INCH NOR SHALL THE MAXIMUM BEAD WIDTH EXCEED 5/8 INCH.
- IV. LIST THE WELDING PROCESSES.
- V. SPECIFY THE REQUIRED WELDING POSITIONS. VI. LIST THE FILLER METAL PER AWS D1.1 FOR ELECTRODE SPECIFICATION AND CLASSIFICATION (SEE TABLE 7), AS WELL AS INFORMATION REGARDING SHIELDING MATERIAL TO BE USED.
- VII. INDICATE THE MINIMUM PREHEAT AND INTERPASS TEMPERATURES (SEE TABLE 4) AND POST WELD HEAT TREATMENT. VIII. LIST ALL APPLICABLE ELECTRICAL CHARACTERISTICS FOR THE WELDING PROCESS EMPLOYED. WPS SHALL CLEARLY INDICATE THE SPECIFIC
- VALUES REQUIRED FOR EACH WELDING PASS. THESE ELECTRICAL CHARACTERISTICS SHALL INCLUDE AT MINIMUM THE FOLLOWING: (1) ELECTRODE DIAMETER (SEE TABLE 5),
- (2) TYPE OF CURRENT, AND ACCEPTABLE RANGES OF CURRENT MEASURED IN AMPERAGE.
- (3) VOLTAGE,
- (4) TRAVEL SPEED (RANGE), AND (5) AMPERAGE, VOLTAGE AND ELECTRODE EXTENSION (AS APPLICABLE) SHALL BE WITHIN THE FILLER METAL MANUFACTURER'S
- RECOMMENDATIONS. IX. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION WITH ID # LISTED SHALL BE ATTACHED TO THE WPS .
- WELD JOINTS NOT CONFORMING TO CHAPTER 3 OF AWS D1.1/D1.1M: 2014 MUST BE TESTED BY AN APPROVED TESTING AGENCY AND ACCEPTED BY BOTH THE ENGINEER OF RECORD AND THE DEPARTMENT'S MATERIAL CONTROL SECTION BEFORE THE WELD IS PERFORMED.
- Q. NOTIFY THE CONTRACTOR, ENGINEER OF RECORD, AND CITY BUILDING INSPECTOR OF ANY DEVIATIONS OR NON-COMPLIANCE WITH THE APPROVED WPS, PLANS OR SPECIFICATIONS.

R. "DEPUTY INSPECTION REPORT FORM B-94" SHALL BE SUBMITTED ON A WEEKLY

- BASIS TO THE CITY BUILDING INSPECTOR, UNLESS DETERMINED OTHERWISE BY THE CITY BUILDING INSPECTOR. DURING THE EXECUTION OF THE WORK, THE DEPUTY INSPECTOR SHALL NOT UNDERTAKE OR ENGAGE IN ANY OTHER TASK OR OCCUPATION WHICH WILL INTERFERE WITH THE PROPER PERFORMANCE OF THE DUTIES OF SUCH
- 5. ELECTRODE STORAGE AND ATMOSPHERIC EXPOSURE A. ELECTRODES ARE CONSIDERED TO BE EXPOSED TO THE ATMOSHPERE IF:

ATMOSPHERIC EXPOSURE TIME.

- I. THE MANUFACTURER'S SEALED ELECTRODE CONTAINERS OR PACKAGINGS ARE OPENED OR DAMAGED. OR II. OUTSIDE OF BAKING OR STORAGE OVENS B. MODIFICATION OR LUBRICATION OF ELECTRODES ARE NOT PERMITTED.
- C. DRYING OF ELECTRODES IN BAKING OR STORAGE OVENS ARE PERMITTED AS RECOMMENDED BY THE MANUFACTURER. D. ELECTRODES SHALL BE IDENTIFIED TO FACILITATE MONITORING OF TOTAL
- E. STORAGE AND ATMOSPHERIC EXPOSURE OF AWS A5.1-91/A5.5-96 LOW-HYDROGEN SMAW ELECTRODES SHALL BE IN ACCORDANCE WITH AWS D1.1/D1.1M: 2014 SECTION 5.3.2. F. FCAW ELECTRODES NOT CONSUMED WITHIN 24 HRS OF ACCUMULATED

ATMOSPHERIC EXPOSURE TIME SHALL NOT BE USED. MANUFACTURER'S

RECOMMENDATIONS THAT SHOW THAT DRYING EFFECTIVELY REMOVES

- MOISTURE AND RESTORES ELECTRODES TO THEIR DESIGNATED DIFFUSIBLE HYDROGEN LEVELS ARE PERMITTED. G. FCAW ELECTRODE WELDING SUSPENDED MORE THAN 8 HRS SHALL BE REMOVED FROM THE MACHINES AND STORED IN AN ELECTRODE WIRE BAKING OR STORAGE OVEN MAINTAINED AT A TEMPERATURE BETWEEN 250 DEGREES AND 550 DEGREE FAHRENHEIT, OR AS RECOMMENDED BY THE ELECTRODE
- 6. PLASTIC HINGING ZONE PROTECTION

MANUFACTURER.

- A. THE PLASTIC HINGING ZONE SHALL BE IDENTIFIED DIAGRAMMATICALLY, IN DETAILS ON THE STRUCTURAL PLANS BY THE ENGINEER OF RECORD. B. THE ENGINEER OF RECORD AND CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING STEEL SHOP DRAWINGS TO ENSURE COMPLIANCE. THIS SHALL BE
- DISCUSSED AND DOCUMENTED IN PRE-CONSTRUCTION MEETINGS. C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A PROGRAM TO ENSURE THAT ALL WORKERS ON THE PROJECT, INCLUDING THEIR SUBCONTRACTORS. ARE AWARE OF AND UNDERSTAND THIS REQUIREMENT. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY CAUSE THE REPLACEMENT OF STEEL.

STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE

A. GENERAL REQUIREMENTS

- THE DESIGN AND CONSTRUCTION OF STEEL MOMENT FRAMES SHALL BE IN COMPLIANCE WITH THE FOLLOWING CODES:
- AND PART III (ASD), DATED MAY 21, 2014, AND

- FOLLOWING ASTM STANDARD SPECIFICATIONS: I. WIDE FLANGE SHAPES......
- II. CONTINUITY, DOUBLER AND COLUMN BASE PLATES, SHEAR TABS....ASTM A36 III. ANCHOR BOLTS AT COLUMN BASE PLATES...
- THE 2016 EDITION OF AISC "LOAD AND RESISTANCE FACTOR SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" B. HIGH STRENGTH BOLTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS
- I. HIGH STRENGTH BOLTS, THREADED RODS, NUTS, AND WASHERS......

IV. FABRICATE AND ERECT STRUCTURAL STEEL IN COMPLIANCE WITH EITHER

- A325, A490 II. SHALL BE INSTALLED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR
- MEASURING DEVICE. IV. SHALL BE SLIP CRITICAL HIGH STRENGTH BOLTS.
- SHALL BE PREPARED AS REQUIRED FOR CLASS A PER THE 2014 AISC SEISMIC PROVISION, SECTION 7.2. C. FILLER METAL PROPERTIES AND SPECIFICATIONS SHALL BE AS FOLLOWS: I. ELECTRODES SHALL BE OF A LOW-HYDROGEN TYPE CONFORMING TO AWS
- SPECIFICATIONS AS REFERENCED IN TABLE 7 ON SHEET 1.3. II. FILLER METALS SHALL BE CLASSIFIED FOR NOMINAL 70 KSI TENSILE
- TABLE 5 ON SHEET 1.3. IV. FILLER METALS SHALL HAVE A MINIMUM CHARPY V-NOTCH (CVN)
- V. THE USE OF INTERMIXED WELDS SHALL NOT OCCUR UNLESS IT CAN BE DEMONSTRATED BY TESTING IN ACCORDANCE WITH AWS D1.1/D1.1M: 2014 SECTION 4.
- D. OTHER MATERIALS NOT LISTED IN UBC STANDARD 22-1 OR LABC CHAPTER 35 ARE NOT PERMITTED WITHOUT SPECIFIC APPROVAL FROM THE DEPARTMENT. STEEL HAVING DUAL ASTM DESIGNATION SHALL BE CLEARLY IDENTIFIED ON
- E. ALL STRUCTURAL STEEL SHALL BE ONE SHOP COAT & FIELD TOUCH-UP WITH RED LEAD (OR APPROVED ZINC CHROMATE PRIMER) AS NECESSARY. (FIELD PAINTING: TOUCH -UP ALL DAMAGED PAINT, BOLTS & WELDS). PROVIDE HOT DIP GALVANIZING OR 3" MINIMUM CONCRETE COVER AROUND ALL
- STRUCTURAL STEEL BELOW GRADE. F. BASEPLATE GROUT SHALL HAVE A CURRENT LARR NUMBER. USE EMBECO 885 OR EQUIVALENT.
- OF THEIR SPANS. TWO PLACES MINIMUM PER BEAM. H. COLUMNS & BEAMS SHALL HAVE 1/2" DIA. STUDS WELDED AT 24" O.C. FOR
- WOOD NAILER ATTACHMENTS-TYPICAL I. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE PERMITTED.
- J. ALL HEADED STUDS (FOR CONCRETE ANCHORAGE) SHALL BE MANUFACTURED BY "NELSON" OR APPROVED EQUAL.
- DONE BY QUALIFIED & CERTIFIED WELDERS.
- THE FOLLOWING:
- 5. DEVIATIONS FROM THE STANDARD QUALITY ASSURANCE PLAN
- A. DEVIATIONS FROM THIS STANDARD QA PLAN SHALL BE APPROVED BY THE DEPUTY INSPECTOR AND CITY BUILDING INSPECTOR PRIOR TO COMMENCEMENT OF WORK.
- C. SUPPLEMENTAL TESTING AND ADDITIONAL SPECIFICATIONS MAY BE REQUIRED TO APPROVE ALTERNATE PROCEDURES, SPECIFICATIONS, OR DETAILS. D. CONFORMANCE WITH ALL APPLICABLE PROVISIONS OF THE

AWS D1.1/D1.1M: 2014 IS REQUIRED.

- B. WELDERS SHALL BE CERTIFIED WELDERS FOR THE STRUCTURAL STEEL CLASSIFICATION C. SHOP WELDS SHALL BE PERFORMED IN A CERTIFIED FABRICATOR'S
- 2. PRE-CONSTRUCTION MEETING A. THE OWNER (OR OWNER'S REPRESENTATIVE) SHALL ARRANGE A PRE-CONSTRUCTION MEETING(S) WITH THE ENGINEER OF RECORD, THE CONTRACTOR (OR AFFECTED SUB-CONTRACTOR), AND THE DEPUTY INSPECTOR TO DISCUSS AND REVIEW WELDING PROCEDURES, BOLTING PROCEDURES, AND INSPECTION
- - STRUCTURAL OBSERVATION SHALL BE PERFORMED THE STRUCTURAL OBSERVER A. PERFORM STRUCTURAL OBSERVATION LISTED IN TABLE 6B,
- TO ENGINEER OF RECORD. B. PERFORM STRUCTURAL OBSERVATION OF STEEL & COMPLETED WELDING PRIOR TO PLACEMENT OF DECKING, COVERING BY FIREPROOFING,
- ENCASEMENT IN CONCRETE OR PLACEMENT OF OTHER FINISHES. C. SUBMIT OBSERVATION REPORT(S) TO THE CITY BUILDING INSPECTOR (THROUGH CONTRACTOR) AT EACH STAGE OBSERVED AND UPON COMPLETION OF THE STRUCTURAL SYSTEM.

- A. 2022 CBC & 2021 IBC. B. AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, PART I (LRFD)
- C. AWS D1.1/D1.1M: 2014 STRUCTURAL WELDING CODE STEEL.
- 2. MATERIAL SPECIFICATIONS A. STRUCTURAL STEEL SHALL COMPLY WITH UBC STANDARD 22-1 AND THE
-ASTM A572 (50), A992 (50) IN MOMENT FRAMES
- AND ASTM STANDARD SPECIFICATIONS:
- STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." III. SHALL BE TIGHTEN TO A SNUG TIGHT CONDITION THAT IS AT LEAST THE MINIMUM PROPER TENSION AND VERIFIED USING A CALIBRATED TENSION
- V. ALL FAYING SURFACES OF CONNECTIONS WITH HIGH STRENGTH FASTENERS
- III. THE MAXIMUM PERMITTED ELECTRODE DIAMETER SHALL BE PER
- TOUGHNESS OF 20 FT-LBF AT -20°F USING AWS A5 CLASSIFICATION TEST
- VI. THE PARAMETERS ESTABLISHED BY THE ELECTRODE MANUFACTURER SHALL BE REFLECTED IN THE WPS.
- EACH SPECIFIC PLAN DETAIL.
- G. ALL STEEL BEAMS SHALL HAVE 1/4" PLATE WEB STIFFENERS AT 1/3 POINTS
- BURNING OF HOLES IS NOT PERMITTED.
- 3. WELDING PROCESSES STRUCTURAL WELDING SHALL BE LIMITED TO THE SHIELDED METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESSES. ALL WELDING TO BE
- 4. BASE METAL REPAIRS OR RESTORATIONS ANY REPAIR OR RESTORATION OF BASE METAL SHALL COMPLY WITH ALL OF
- A. AWS D1.1/D1.1M: 2014, SECTION 5.26, AND ASTM A6/A6M-02, SECTION 9.2, 9.3, 9.4 AND 9.5, B. ENGINEER OF RECORD SHALL REVIEW AND APPROVE THE WPS FOR REPAIR PROCEDURES PRIOR TO WELDING,
- C. ALL WELDING SHALL BE PERFORMED USING LOW-HYDROGEN PROCESS OR WITH SMAW USING LOW-HYDROGEN ELECTRODES. PROVIDE CONTINUOUS VISUAL INSPECTION BY THE DEPUTY INSPECTOR, AND E. PROVIDE NON-DESTRUCTIVE TESTING.
- WHEN DEVIATIONS FROM THE STANDARD QA PLAN ARE MADE, COMPLY WITH ALL OF THE FOLLOWING:
- B. ALTERNATE PROCEDURES, SPECIFICATIONS, OR DETAILS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER OF RECORD.
- B. QUALITY ASSURANCE
- 1. CERTIFICATION A. INSPECTORS SHALL BE CERTIFIED DEPUTY INSPECTORS
- D. TECHNICIANS PERFORMING NDT SHALL BE CERTIFIED FOR LEVEL II IN ACCORDANCE WITH ASNT SNT-TC-1A 2016 EDITION BY AN APPROVED TESTING
- - REQUIREMENTS.
- STRUCTURAL OBSERVATION
 - PLUS REVIEW & APPROVE STEEL SHOP DRAWINGS GIVEN BY CONTRACTOR

DEC. 10, 2023 AS NOTED

23B03

SHEET NUMBER:

PROJECT NUMBER:

DATE:

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TABLE 6B. STRUCTURAL OBSERVATION CHECKLIST

7, 1522 65, 611(6616)(1, 1261)
DEPUTY INSPECTOR OBSERVATION PROGRAM (STEEL MOMENT FRAME FOR SEISMIC APPLICATION)
1. REMOVAL OF BACKING BARS, AS REQUIRED ON THE PLANS & DETAILS
2. PRESENCE OF CONTINUITY PLATES, AS REQUIRED ON THE PLANS & DETAILS
3. PRESENCE OF DOUBLER PLATES, AS REQUIRED ON THE PLANS & DETAILS
4. VERIFY THAT NO WELDED ATTACHMENTS OCCUR IN THE PLASTIC HINGING REGION.
5. REVIEW NDT REPORTS FOR GENERAL COMPLIANCE.

- 1. WELD QUALITIES SHALL BE VERIFIED BY THE DEPUTY INSPECTOR.
- 2. THE OBSERVATIONS LISTED IN THIS TABLE ARE IN ADDITION TO THE OBSERVATIONS THAT MAY BE REQUIRED ON THE STRUCTURAL PLANS.

TABLE 7. PREQUALIFIED BASE METAL — FILLER METAL COMBINATIONS FOR MATCHING STRENGTH

BA	ASE METAL		FILLER METAL				
GROUP	STEEL SPECIFICATION	WELDING PROCESS	AWS ELECTRODE SPECIFICATION	ELECTRODE CLASSIFICATION			
			A5.1	E70XX			
ı	ASTM A36 < 3/4 IN.	SMAW A5.5 (6) FCAW A5.20 (5) A5.29 (6) A5.1 A5.5 (6)	A5.5 (6)	E70XX-X			
'	ASTM ASO < 5/4 IIV.		E70XT-X, E7XT-XM				
		FCAW	A5.29 (6)	E70XTX-X, E7XTX-XM			
			A5.1	E7015, E7016, E7018, E7028			
	ASTM A36 & 3/4 IN. ASTM A572 GRADE 50	SMAW	A5.5 (6)	E70XX-X			
II	ASTM A913 GRADE 50		A5.20 (5)	E70XT-X, E7XT-XM			
	ASTM A992	FCAW	A5.29 (6)	E70XTX-X, E7XTX-XM			
RELATIONSHIP	BASE METAL (S)			AL STRENGTH IIP REQUIRED			
MATOLINO	ANY STEEL TO ITSELF OR AI TO ANOTHER IN THE SAME (ANY FILLER M SAME GROUP	METAL LISTED IN THE			
MATCHING	ANY STEEL IN ONE GROUP STEEL IN ANOTHER	TO ANY		METAL LISTED FOR A IGTH GROUP [SMAW			
UNDER- MATCHING	ANY STEEL TO ANY STEEL GROUP	TO ANY	1	SHALL BE THE LOW— .ASSIFICATION]			

- 1. THE BASE METAL/FILLER METAL STRENGTH RELATIONSHIPS ABOVE SHALL BE USED TO DETERMINE WHETHER MATCHING OR UNDER-MATCHING FILLER METALS ARE REQUIRED. REFER TO AWS D1.1/D1.1M: 2002, SECTION 3.3.
- 2. PREHEATING OF JOINTS INVOLVING BASE METALS OF DIFFERENT GROUPS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS APPLICABLE TO THE HIGHER STRENGTH GROUP.
- 3. WHEN WELDS ARE TO BE STRESS-RELIEVED, THE DEPOSITED WELD METAL SHALL NOT EXCEED 0.05 PERCENT
- 4. ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING CODE - STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, TABLE 3.1.
- 5. FCAW ELECTRODES WITH THE -2, -2M, -3, -4, -7, -10, -11, -13, -14, G, -GS SUFFIX SHALL BE EXCLUDED AND ELECTRODES WITH THE -11 SUFFIX SHALL BE EXCLUDED FOR THICKNESSES GREATER THAN 1/2 IN.
- 6. FILLER METALS OF ALLOY GROUP B3, B3L, B4, B4L, B5, B5L, B6, B6L, B7, B7L, B8, B8L, B9, OR ANY BXH GRADE IN AWS A5.5 OR A5.29 ARE NOT PREQUALIFIED FOR USE IN THE AS-WELD CONDITION.

TABLE 5. PREQUALIFIED WPS REQUIREMENTS (1, 2, 3)

VARIABLE	POSITION OF WELD	WELD TYPE	SMAW	FCAW	
		FILLET (4)	5/16 IN.		
	FLAT (F)	GROOVE (4)	1/4 IN.	1/8 IN.	
MAXIMUM		ROOT PASS	3/16 IN.		
ELECTRODE DIAMETER	HODIZONTAL (II)	FILLET	1/4 IN.		
	HORIZONTAL (H)	GROOVE	3/16 IN.	1/8 IN.	
	VERTICAL (V)	ALL	3/16 IN.	3/32 IN.	
	OVERHEAD (OH)	ALL	3/16 IN.	5/64 IN.	
	ALL	FILLET			
		GROOVE WELD ROOT PASS WITH OPENING	WITHIN THE RANGE OF RECOMMENDED OPERATION BY	WITHIN THE RANGE OF RECOMMENDED	
MAXIMUM CURRENT	ALL	GROOVE WELD ROOT PASS WITHOUT OPENING	THE FILLER METAL MANUFACTURER AND A WPS APPROVED	OPERATION BY THE FILLER METAL MANUFACTURER AND A WPS APPROVED BY ENGINEER OF RECORD.	
	, . <u></u>	GROOVE WELD FILL PASSES	BY ENGINEER OF RECORD.		
		GROOVE WELD CAP PASS			
	FLAT (F)		3/8 IN.	3/8 IN.	
MAXIMUM ROOT	HORIZONTAL (H)	ALL	5/16 IN.	5/16 IN.	
PASS THICKNESS (5)	VERTICAL (V)	ALL	1/2 IN.	1/2 IN.	
	OVERHEAD (OH)		5/16 IN.	5/16 IN.	
MAXIMUM FILL PASS THICKNESS	ALL	ALL	3/16 IN.	1/4 IN.	
	FLAT (F)		3/8 IN.	1/2 IN.	
MAXIMUM SINGLE	HORIZONTAL (H)	511.57	5/16 IN.	3/8 IN.	
PASS FILLET WELD SIZE	VERTICAL (V)	- FILLET	1/2 IN.	1/2 IN.	
	OVERHEAD (OH)		5/16 IN.	5/16 IN.	
MAXIMUM SINGLE	All	ROOT OPENING >1/2 IN.	NOT APPLICABLE.	SPLIT LAYERS	
PASS LAYER WIDTH	ALL	ANY LAYER OF WIDTH W	THO I ALL LIOADLE.	(6)	

- 2. REFER TO DETAIL ON SHEET FOR DIAGRAM OF WELD PASS SEQUENCE.
- 3. ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING CODE STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, TABLE 3.7.
- 4. EXCEPT ROOT PASSES. 5. SEE AWS D1.1/D1.1M: 2002, SECTION 3.7.2, FOR WIDTH-TO-DEPTH LIMITATIONS.
- THE V POSITION FOR NONTUBULARS OR THE 5G OR 6G FOR TUBULARS, SPLIT LAYERS WHEN THE WIDTH W > 1 INCH.
- APPLICABLE PROVISIONS OF AWS D1.1/D1.1M: 2002 SECTION 3 "PREQUALIFICATION OF WPSS" MUST BE MAINTAINED FOR PREQUALIFIED STATUS OF SMAW AND FCAW WPSS.

- 6. IN THE F, H, OR OH POSITIONS FOR NONTUBULARS, SPLIT LAYERS WHEN THE LAYER WIDTH W > 5/8 INCH. IN

TABLE 6A. DEPUTY INSPECTOR OBSERVATION CHECKLIST

· / D L L \	O / (.			0, 20			/L \ \	, , , , , ,	•	OTTEOTIES	J
	(DEPU ⁻ STEEL M	TY INSP IOMENT						N)		
1. REMOVAL (OF BACKIN	IG BARS, A	s require	ED ON TH	E PLANS	& DETA	AILS				
2. REMOVAL	OF RUNOF	F TABS, AS	REQUIRE	D ON THE	PLANS	& DETA	ILS				
3. PRESENCE	OF CONTI	INUITY PLAT	TES, AS RI	EQUIRED (ON THE	PLANS &	c DETAIL	S			
4. PRESENCE	OF DOUB	LER PLATES	S, AS REQ	UIRED ON	THE PL	ANS & [DETAILS				
5. CONFIGURA	ATION AND	FINISH OF	WELD AC	CESS HOL	ES, IF A	PPLICAB	LE.				
6. CONTOUR	OF RBS P	ROFILE, IF	APPLICABL	_E.							
7. VERIFY TH	HAT NO WE	ELDED ATTA	CHMENTS	OCCUR IN	N THE PL	ASTIC H	INGING F	REGION.			
8. REVIEW N	DT REPORT	TS FOR GEN	IERAL COM	IPLIANCE.							
		- OLIVOLIV									

NOTES:

- 1. WELD QUALITIES SHALL BE VERIFIED BY THE DEPUTY INSPECTOR.
- 2. THE OBSERVATIONS LISTED IN THIS TABLE ARE IN ADDITION TO THE OBSERVATIONS THAT MAY BE REQUIRED ON THE STRUCTURAL PLANS.

TABLE 1. REPORTS TO BE SUBMITTED TO THE CITY BUILDING INSPECTOR

	PREPARED BY	TYPE OF REPORT
1.	STRUCTURAL OBSERVER(S)	STRUCTURAL OBSERVATION REPORTS
2.	DEPUTY INSPECTOR(S)	DEPUTY INSPECTION REPORTS
3.	NDT TECHNICIAN(S)	NON-DESTRUCTIVE TESTING REPORTS

TABLE 2. NON-DESTRUCTIVE TEST LOCATIONS

	REQUIRED LOCATIONS	OMF	IMF	SMF
1.	CJP GROOVE WELD ULTRASONIC TEST SHALL BE PERFORMED ON ALL CJP GROOVE WELDS IN MATERIALS 5/16 INCH (8 MM) THICK OR GREATER. IN ADDITION, MAGNETIC PARTICLE TEST SHALL BE PERFORMED ON ALL BEAM-TO-COLUMN CJP GROOVE WELDS.	В	А	А
2.	"K" AREA WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, THE WEB SHALL BE TESTED FOR CRACKS USING MAGNETIC PARTICLE TESTING. THE MAGNETIC PARTICLE TEST AREA SHALL INCLUDE THE K-AREA BASE METAL WITHIN 3 IN. (75 MM) OF THE WELD.	С	В	В
3.	BEAM COPE AND ACCESS HOLE AT WELDED SPLICES AND CONNECTIONS, THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING, WHEN THE FLANGE THICKNESS EXCEEDS 1-1/2 IN. (38 MM) FOR ROLLED SHAPES.	С	В	В
4.	REDUCED BEAM SECTION REPAIR MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON ANY WELD AND ADJACENT AREA OF THE RBS PLASTIC HINGE REGION THAT HAS BEEN REPAIRED BY WELDING, OR ON THE BASE METAL OF THE RBS PLASTIC HINGE REGION IF A SHARP NOTCH HAS BEEN REMOVED BY GRINDING.	В	В	A
ò.	BASE METAL LAMELLAR TEARING AND LAMINATIONS AT CJP GROOVE WELD BASE METAL THICKER THAN 1-1/2 IN. (38 MM) SHALL BE ULTRASONICALLY TESTED FOR DISCONTINUITIES BEHIND AND ADJACENT TO THE FUSION LINE WHEN THE BASE METAL IS LOADED IN TENSION IN THE THROUGH THICKNESS DIRECTION IN TEE AND CORNER JOINTS AND THE CONNECTED MATERIAL IS GREATER THAN 3/4 IN. (19 MM). ANY BASE METAL DISCONTINUITIES FOUND WITHIN T/4 OF THE STEEL SURFACE SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1 TABLE 6.2, WHERE T IS THE THICKNESS OF THE PART SUBJECTED TO THE THROUGH-THICKNESS STRAIN.	В	В	А
6.	END OF WELD AT WELD TAB REMOVAL SITE MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON THE END OF WELDS FROM WHICH THE WELD TABS HAVE BEEN REMOVED, EXCEPT FOR CONTINUITY PLATE WELD TABS.	С	В	В
7.	PJP GROOVE WELD ULTRASONIC TESTING SHALL BE PERFORMED ON PJP GROOVE WELDS USED IN COLUMN SPLICES WITH AN EFFECTIVE THROAT OF 3/4 IN. (19.1 MM) THICK OR GREATER.	С	В	A

NOTE: A, B, AND C ARE THE FREQUENCIES OF NON-DESTRUCTIVE TESTS LISTED IN TABLE 3. OMF, IMF OR SMF CONNECTION NOTED IN STRUCTURAL DETAILS

TABLE 3. NON-DESTRUCTIVE TEST FREQUENCY

	FREQUENCY DESIGNATION					
	Α	В	С			
ULTRASONIC TESTING (UT)	100% OF JOINTS	50% OF JOINTS	25% OF JOINTS			
MAGNETIC PARTICLE TESTING (MT)	50% OF JOINTS	25% OF JOINTS	NOT REQUIRED			

- 1. REFER TO TABLE 2 FOR LOCATIONS OF NON-DESTRUCTIVE TESTING. 2. RATE OF NON-DESTRUCTIVE TESTING MAY BE REDUCED AS PERMITTED IN SHEET 1, PART IV, ITEM 8(D).

TABLE 4. PREQUALIFIED MINIMUM PREHEAT AND INTERPASS TEMPERATURE

		121111 2111 101112	
STEEL SPECIFICATION	WELDING PROCESS	THICKNESS OF THICKEST PART AT POINT OF WELDING (in.)	MINIMUM PREHEAT AND INTERPASS TEMPERATURE (°F)
ACTN AZC		1/8 TO 3/4 INCL.	32
ASTM A36 ASTM A572 GRADE 50	SMAW WITH LOW-HYDROGEN	OVER 3/4 TO 1-1/2 INCL.	50
ASTM A913 GRADE 50 ASTM A992	ELECTRODES, FCAW	OVER 1-1/2 TO 2-1/2 INCL.	150
ASIM ASSE		OVER 2-1/2	225

- 1. SURFACES TO BE WELDED AND SURFACES ADJACENT TO WELDS SHALL BE FREE OF MOISTURE PURSUANT TO AWS D1.1/D1.1M: 2002 SECTION 5.15. USE A HIGHER PREHEAT TEMPERATURE FROM THIS TABLE TO REMOVE
- 2. ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING CODE STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, TABLE 3.2.

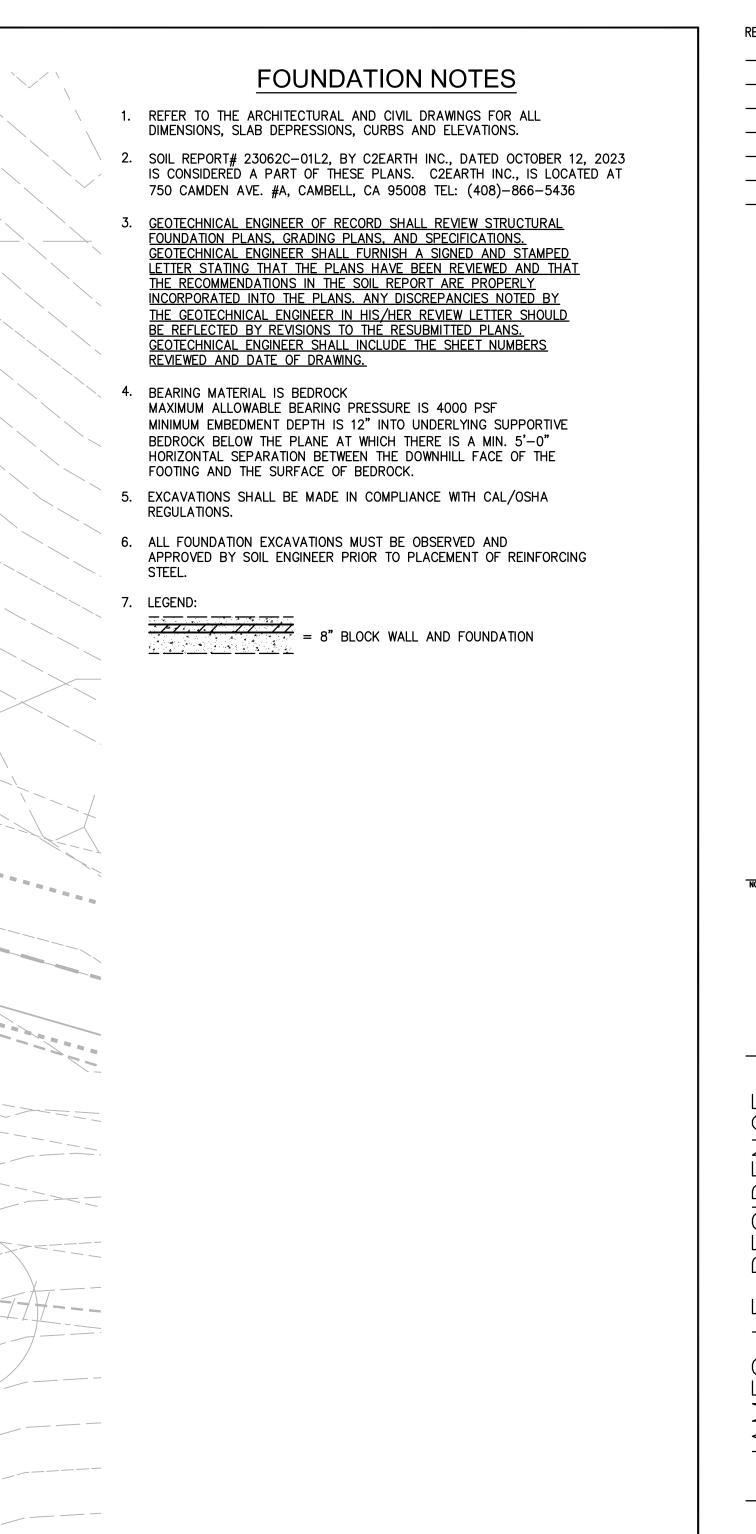
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DEC. 10, 2023

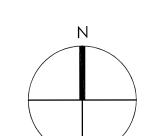
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SITE RETAINING WALL LAYOUT
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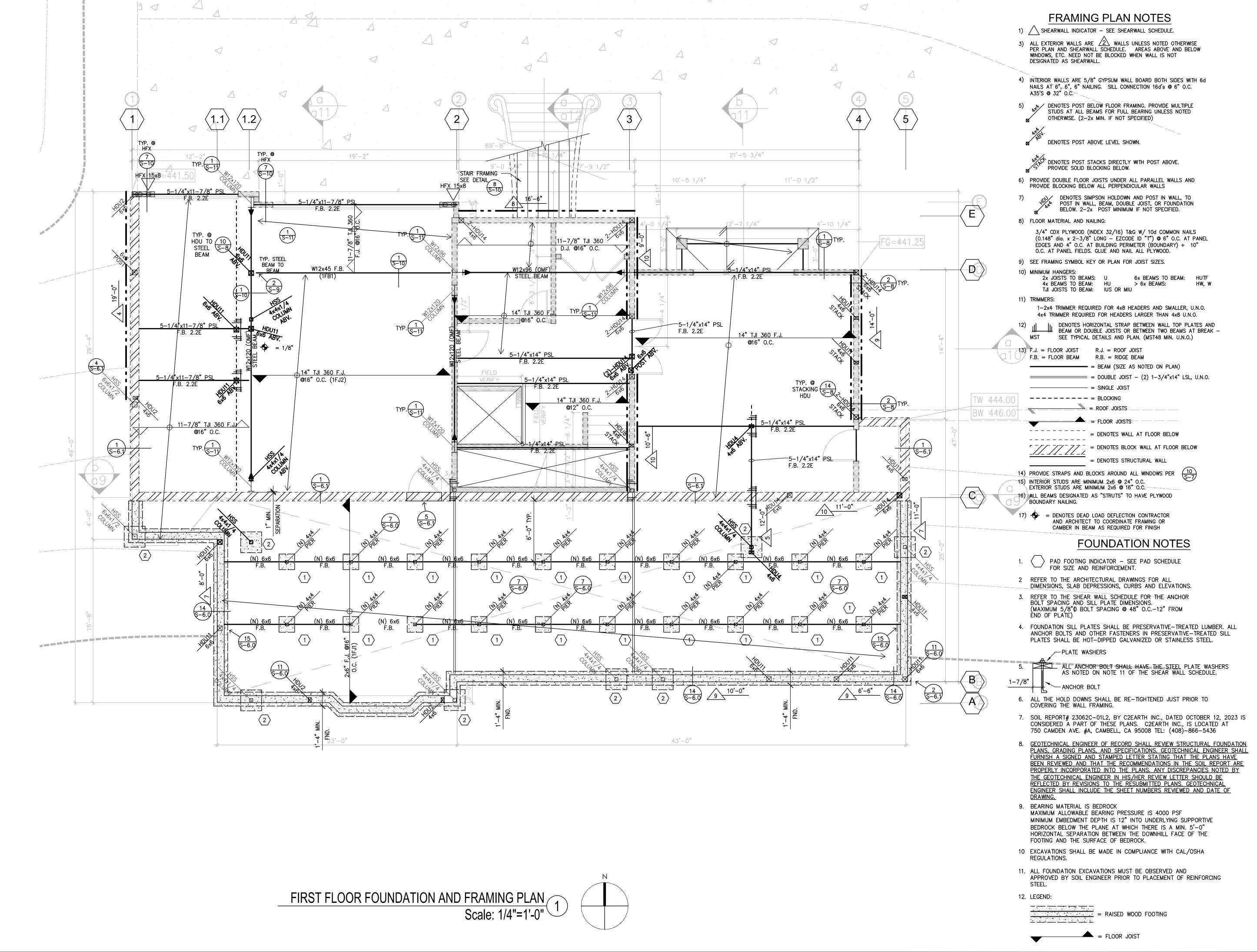
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AS NOTED

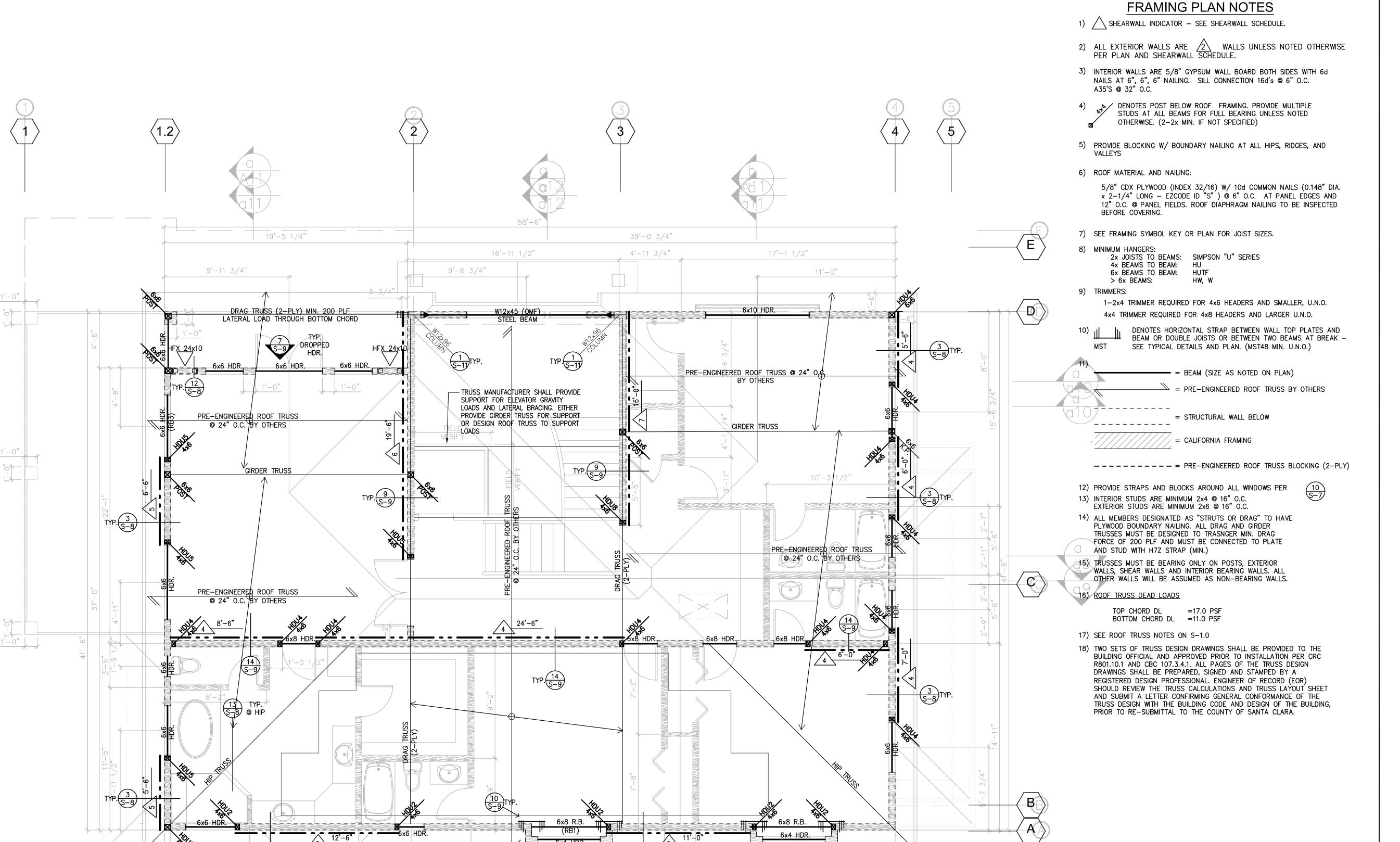
PROJ. ENG. / DRAWN:

DEC. 10. 202

DEC. 10, 2023 SCALE:

AS NOTED

SHEET NUMBER:



ROOF FRAMING PLAN
Scale: 1/4"=1'-0"

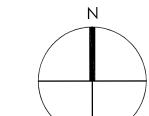
4'-4 1/4"

6'-10"

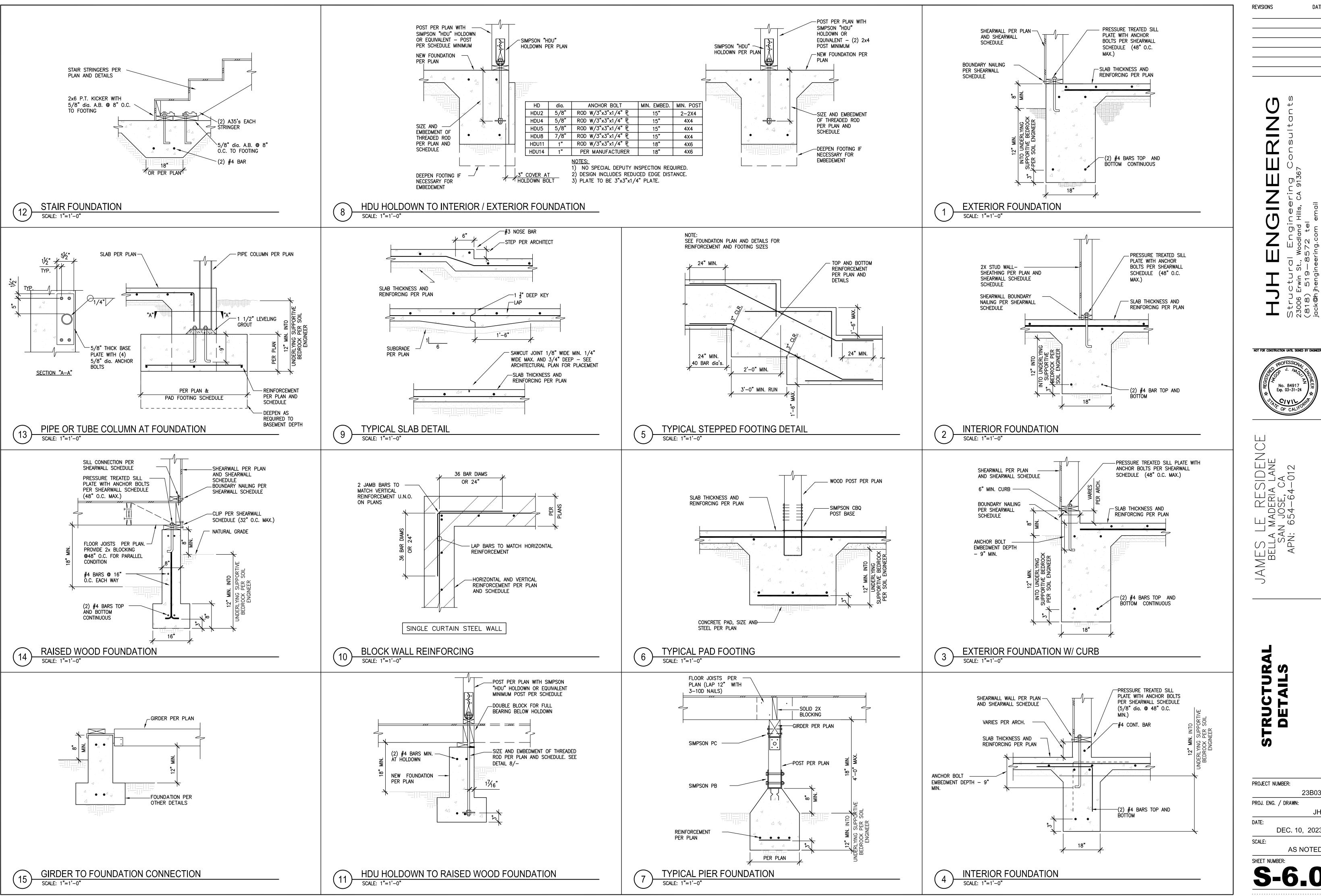
28'-10 3/4

 $TYP. \overbrace{\frac{3}{S-8}}$

4'-1 3/4" 2'-6" 4'-4 1/4"



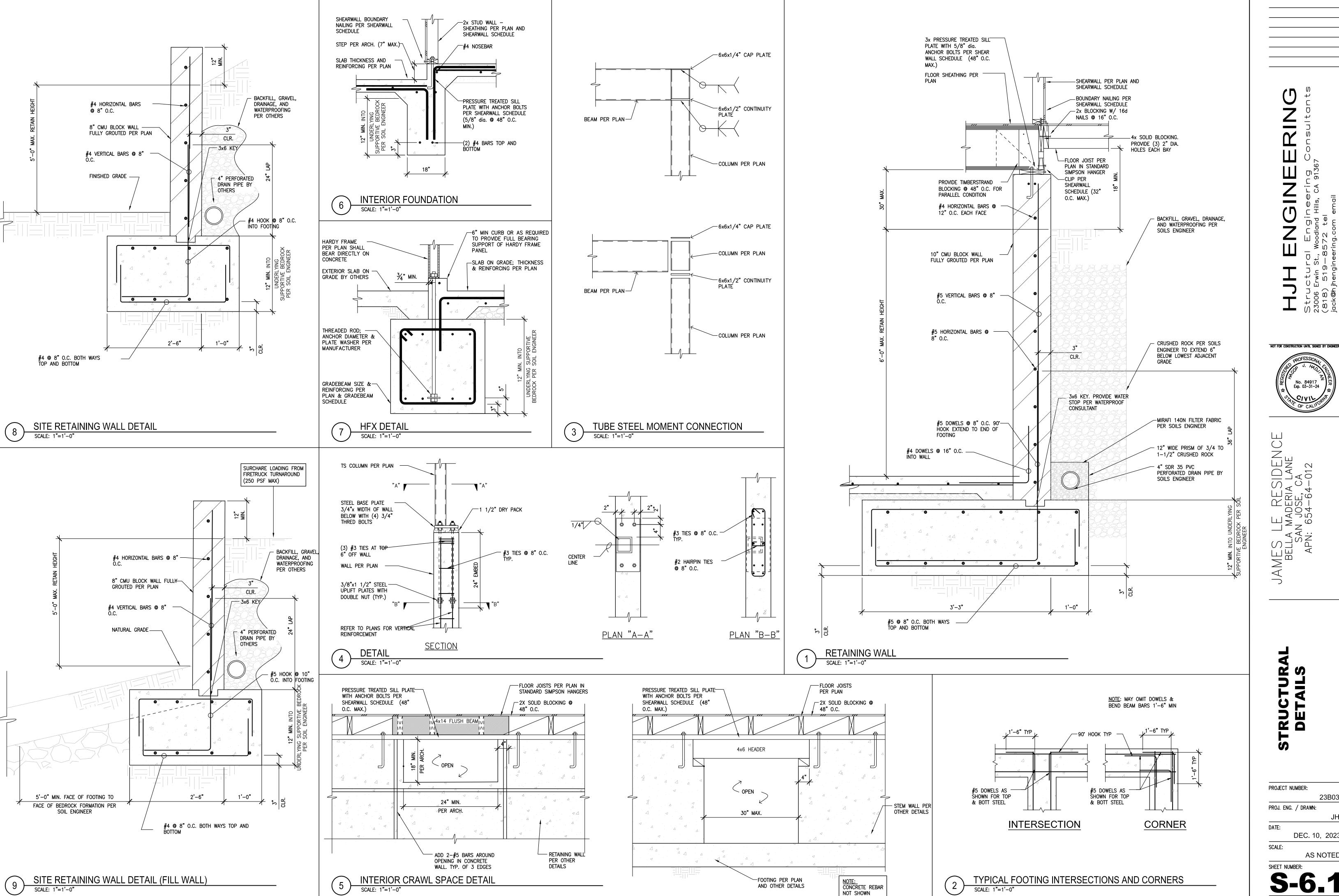
4'-7 1/4"



LE RESIDENCE a maderia lane an Jose, ca i: 654-64-012 JAMES BELL

STRUC DETA PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: DATE: DEC. 10, 2023

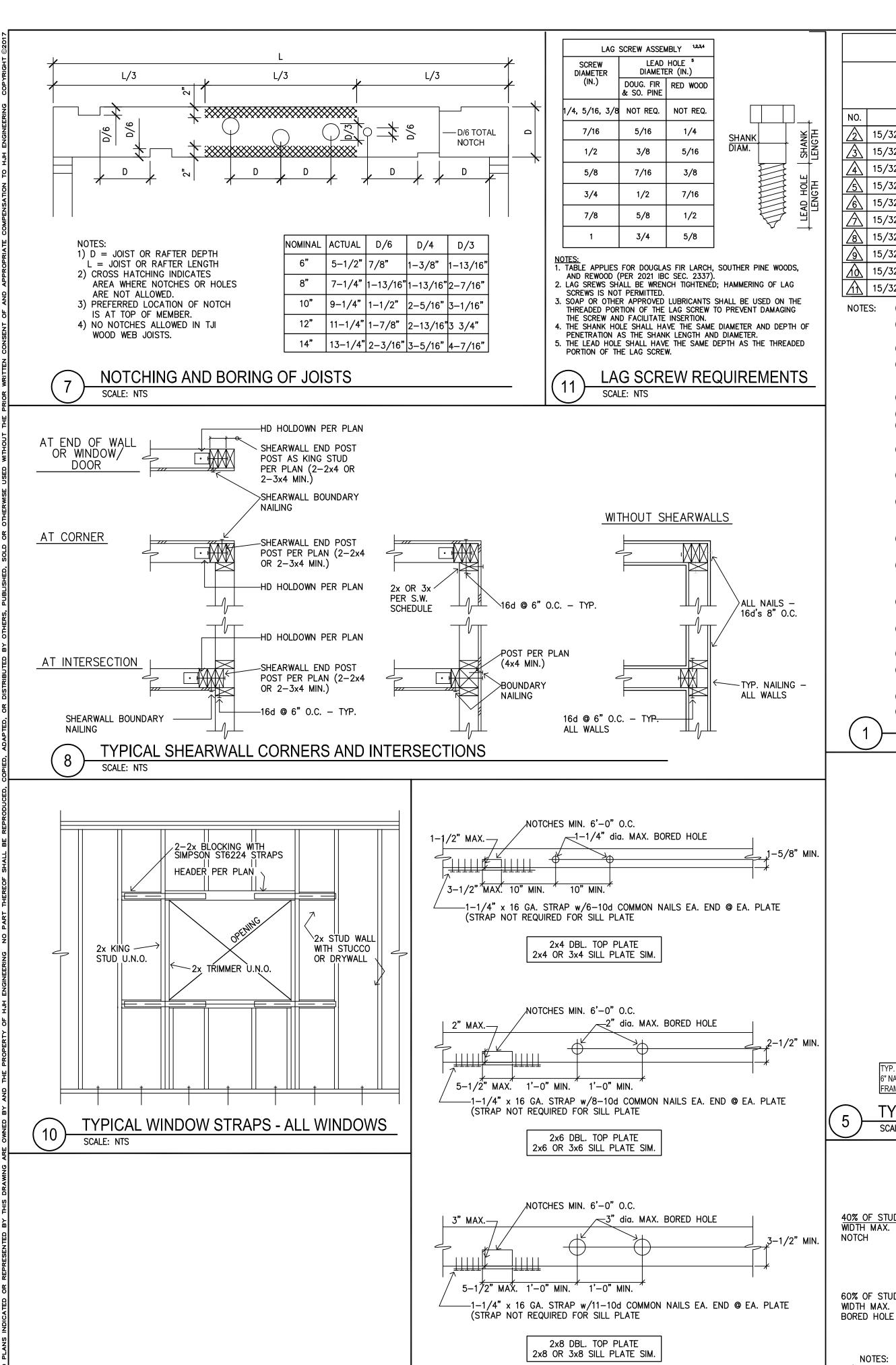
SCALE: AS NOTED SHEET NUMBER:

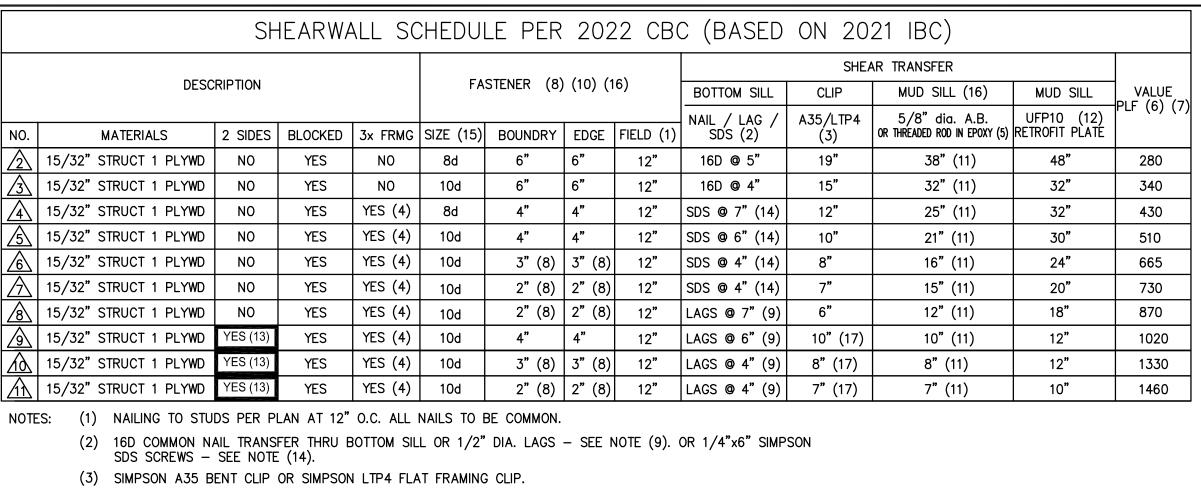


LE RESIDENCE A MADERIA LANE AN JOSE, CA 1: 654-64-012 JAMES LE Bella M San Apn: 6

STRUCTURA DETAILS

PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: DATE: DEC. 10, 2023 SCALE: AS NOTED





(4) 3x FRAMING REQUIRED AT ALL ADJOINING PANEL EDGES, AND BOTTOM SILL PLATES THAT REST ON CONCRETE OR MASONRY ONLY, EXCEPT DOUBLE TOP-PLATES. MINIMUM 1/2" EDGE NAILING DISTANCE AT PANEL EDGES

AND NOT LESS THAN 3/8" FROM EDGE OF CONNECTION MEMBERS. USE 3x MEMBERS AT BOUNDARIES WHEN NAILING SPACED AT 4" O.C. OR LESS.

(5) USE SIMPSON "SET" EPOXY FOR RETROFIT BOLTS - 7" EMBED - WITH SPECIAL INSPECTION.

VALUES PER 2022 CBC TABLE 2306.4.1 STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER IS REQUIRED FOR ALL WALLS WITH A VALUE GREATER THAN 300 PLF PERIODIC SPECIAL INSPECTION IS REQUIRED WHEN NAILING OF SHEATHING IS 4" O.C. OR CLOSER PER 2022 CBC SECTION 1707.3

NAILS SHALL BE STAGGERED IN TWO LINES ALONG PANEL EDGES WHEN NAIL SPACING IS 2" O.C. OR WHEN 10d COMMON NAILS SPACED 3" O.C. PENETRATE FRAMING MORE THAN 1-1/2".

(9) AT BOTTOM SILL PLATE FLOOR TRANSFER PROVIDE 1/2" DIAMETER LAG SCREWS WITH CUT WASHERS 3" EMBEDMENT INTO BLOCKING BELOW. HOLES MUST BE PRE-DRILLED. STAGGER LAGS 1/2" MIN. USE MIN. 4x BLOCKING BELOW (OR 3 1/2" LSL BLOCKING)

(10) SHEATHING NAILS AND SCREWS SHALL BE DRIVEN SO THAT THEIR HEAD IS FLUSH WITH THE SURFACE OF THE SHEATHING. PER 2022 CBC SECTION 2304.9.2. IF HEAD PENETRATES SHEATHING MORE THAN 1/16" THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY AND WILL NOT BE APPROVED.

(11) 1/4" X 3" X 3" PLATE WASHERS ARE REQUIRED. A DIAGONALLY SLOTTED HOLE OF 13/16" WIDTH AND 1-3/4" LENGTH IN WASHER IS PERMITTED PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE SLOTTED PLATE WASHER AND NUT PER 2013 CBC 2305.3.11

(12) AT RAISED WOOD FOUNDATIONS, WHERE OCCURS, UFP10 SIMPSON RETROFIT PLATE: USE (5) SDS 1/4" dia. x 3" WOOD SCREWS INTO SILL PLATE & (2) 1/2" dia. THREADED RODS W/ SIMPSON "SET" EPÒXY INTO EXISTING

(13) WHERE PLYWOOD IS APPLIED ON BOTH SIDES OF SHEARWALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS.

(14) AT BOTTOM SILL PLATE FLOOR TRANSFER PROVIDE 1/4"x6" SIMPSON SDS SCREWS WITH 2-3/4" EMBEDMENT INTO BLOCKING BELOW. STAGGER SCREWS 1/2" MIN.

USE MIN. 4x BLOCKING BELOW (OR 3 1/2" LSL BLOCKING) (15) $10d COMMON = 3" \times 0.148"$. 8d $COMMON = 2-1/2" \times 0.131"$

(16) FOUNDATION SILL PLATES SHALL BE PRESSURE-TREATED LUMBER (CBC 2304.11.2.4). ANCHOR BOLTS AND OTHER FASTENERS IN PRESERVATIVE-TREATED

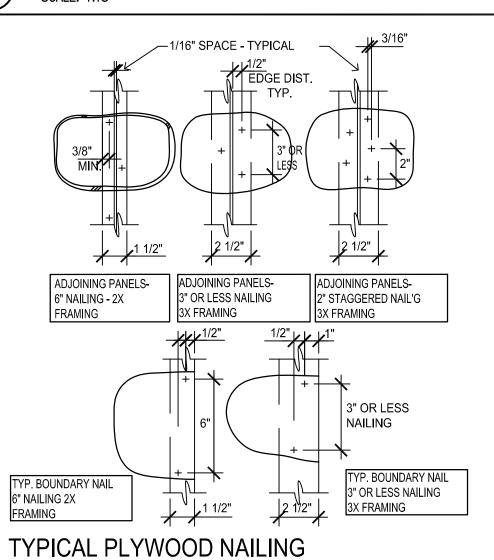
SILL PLATES SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL PER CBC 2304.9.5.1.

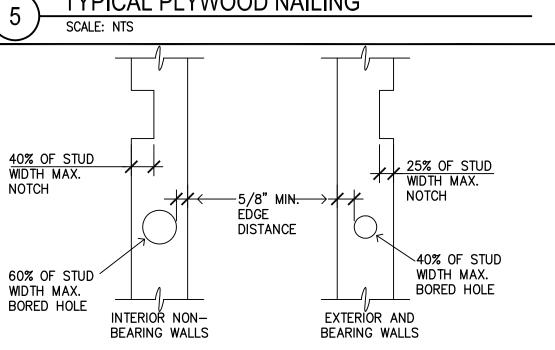
(17) CLIPS TO BE ON EACH SIDE OF WALL WITH SPACING PER SCHEDULE.

(18) STUDS MUST BE SPACED A MAXIMUM OF 16" O.C. SHEARWALL SCHEDULE

CONCRETE FOUNDATION - EMBED 4\1/2'

SCALE: NTS





1) NOTCHES AND HOLES SHALL NOT OCCUR AT THE SAME LOCATION ON A STUD 2) ANY STUD MAY BE BORED WITH A MAXIMUM HOLE OF 60% OF THE STUD WIDTH IF THE STUD IS DOUBLED AND ONLY TWO SUCCESIVE STUDS

ARE SO BORED.

TYP. NOTCHES/BORING IN TOP & BOTTOM PLATES /

SCALE: NTS

STUD 2x4 WIDTH 7/8" 1 3/8" 25% 1 3/8" | 2 1/8" 40% 60% 2" 3 1/4"

& NAILS SHALL BE STAGGERED WHERE:

SCALE: NTS

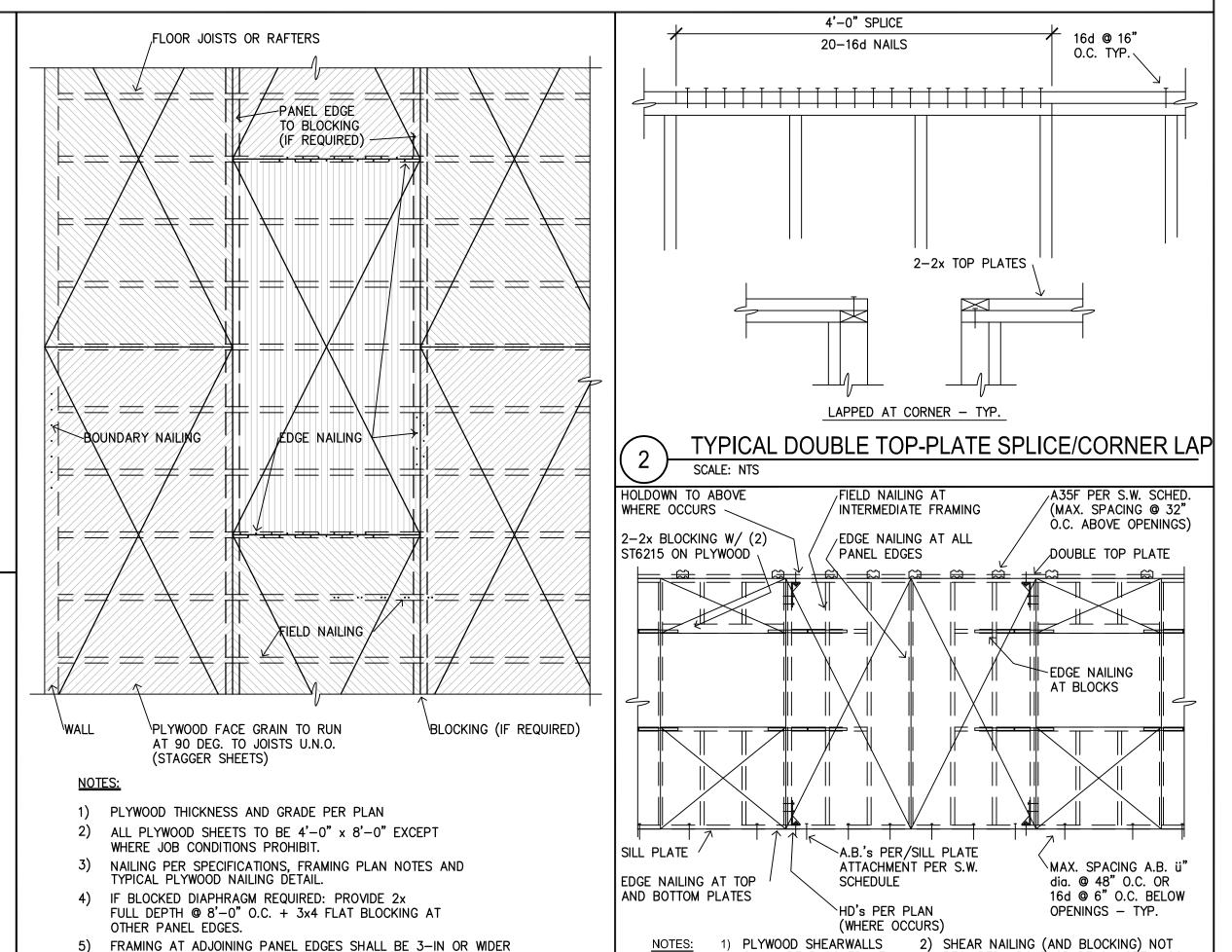
A. NAILS ARE SPACED 2-IN OR 2 1/2-IN ON CENTER

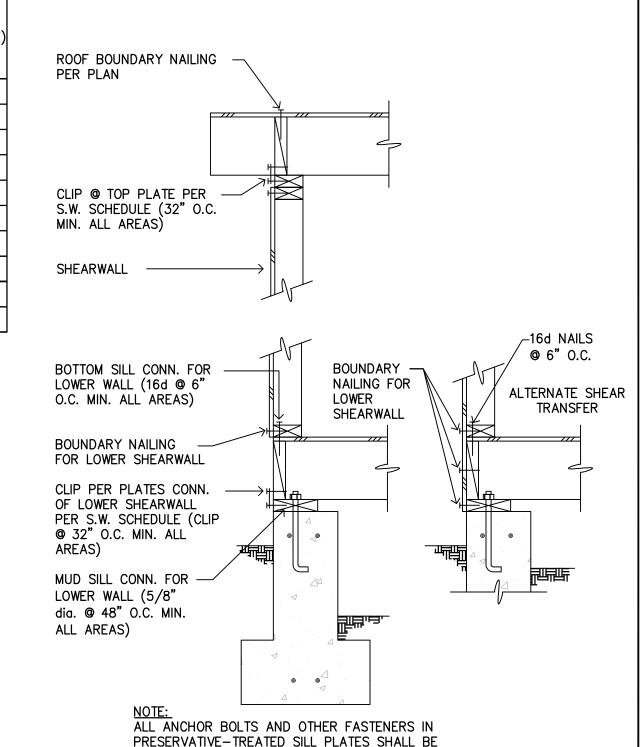
TYPICAL FLOOR AND ROOF SHEATHING

B. 10d NAILS HAVING PENTRATION INTO FRAMING OF MORE

THAN 1 5/8-IN ARE SPACED 3-IN OR LESS ON CENTER

NOTCHING AND BORING OF STUDS SCALE: NTS





HOT-DIPPED GALVANIZED OR STAINLESS STEEL.



REVISIONS

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PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: DEC. 10, 2023 SCALE:

REQUIRED ABOVE OR BELOW OPENINGS UNLESS NOTED OTHERWISE ON PLANS

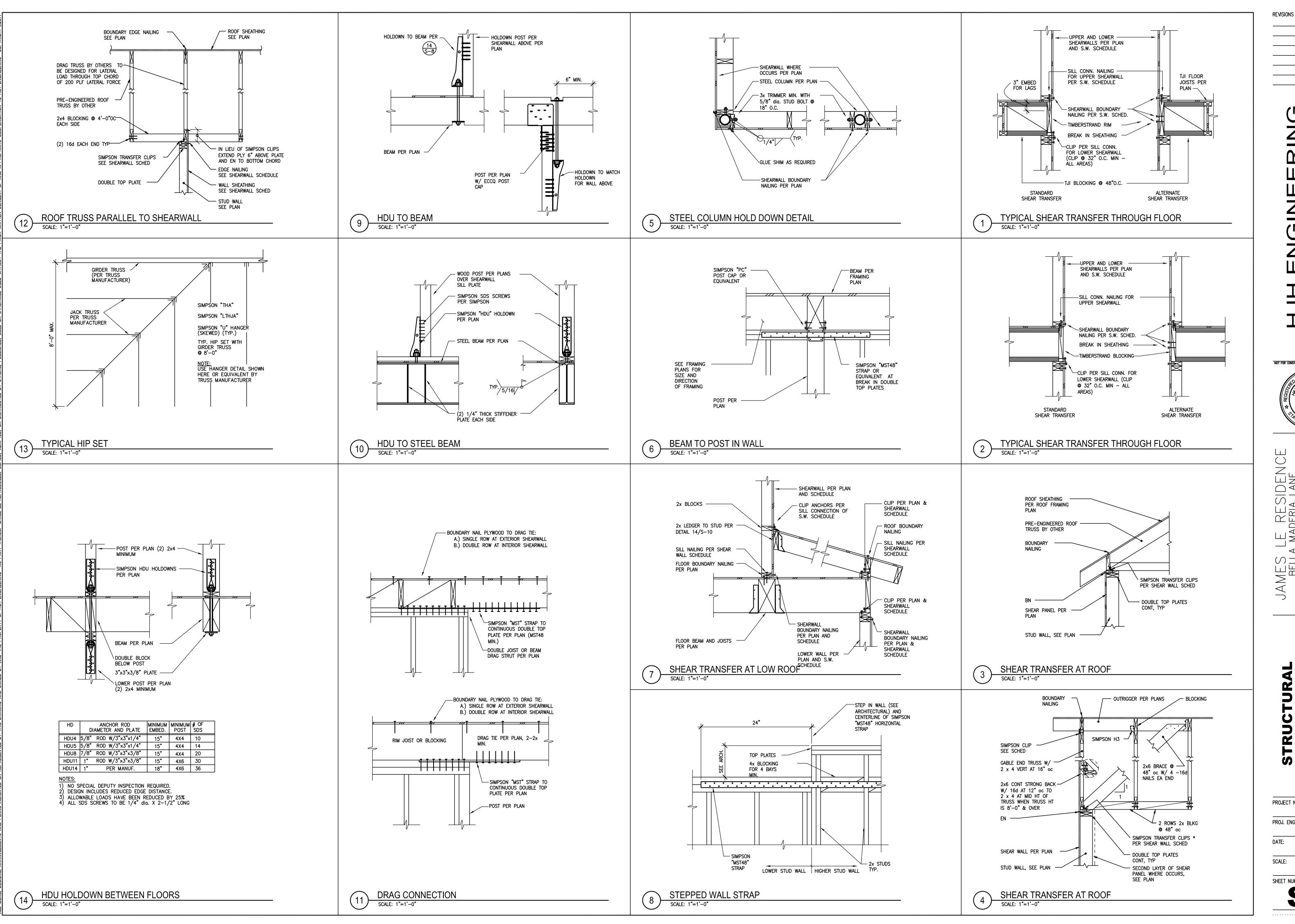
SHALL BE BLOCKED AT

TYPICAL SHEARWALL NAILING + STRAPS

ALL PANEL EDGES.

SCALE: NTS

AS NOTED SHEET NUMBER:



NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEER

ENCI NE S LE RESIDE LA MADERIA LAN SAN JOSE, CA PN: 654-64-012 AMES Bell $\overline{}$

RUCTUR/ DETAILS

PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: DATE: DEC. 10, 2023 SCALE:

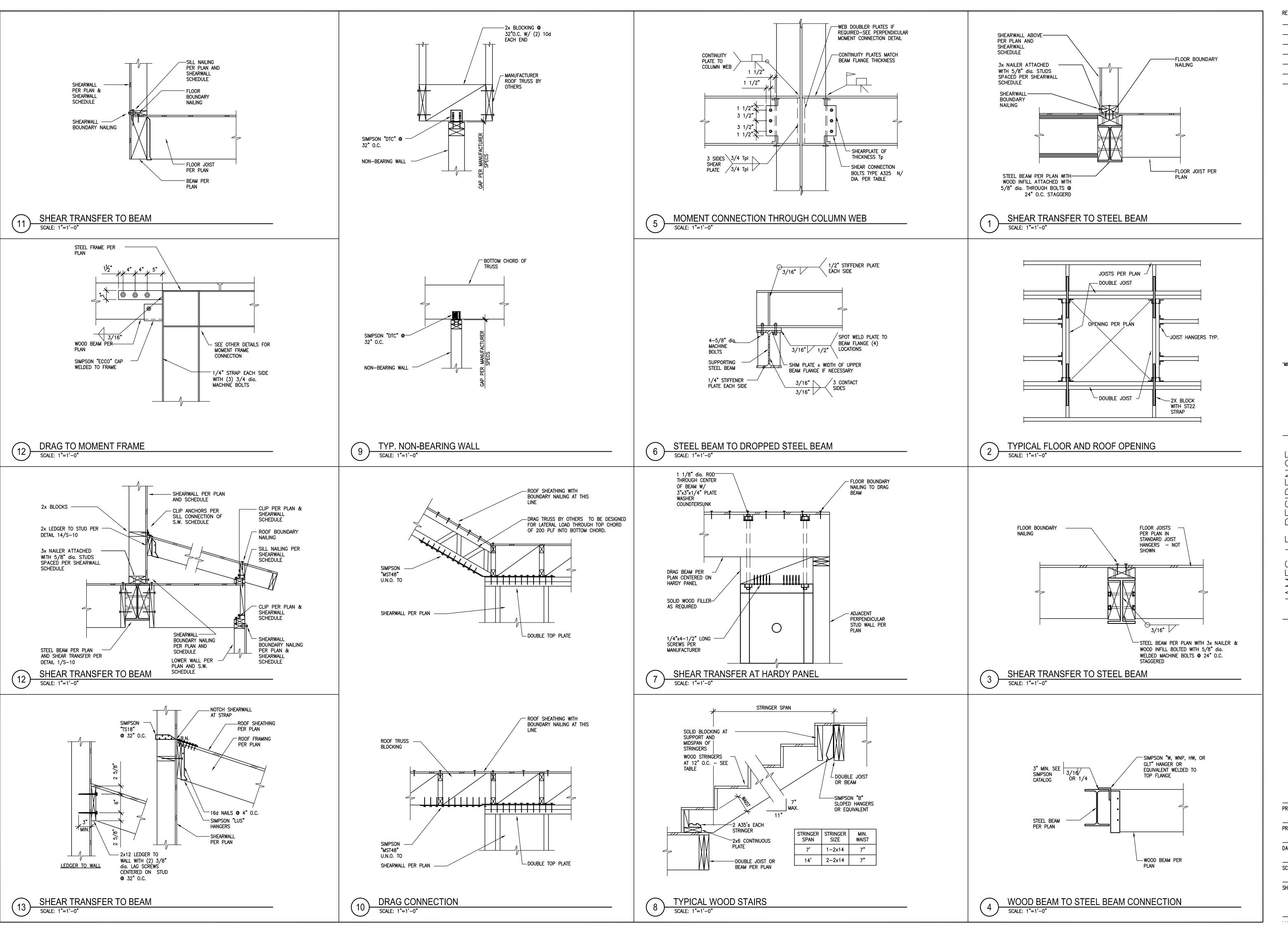
AS NOTED SHEET NUMBER:

ENC! SID CA CA F-01 E RESI MADERIA L JOSE, CA 654-64-(

RUCTUR/ DETAILS ST

PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: DATE:

DEC. 10, 2023 SCALE: AS NOTED



NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEER

LE RESIDE MADERIA LAN AN JOSE, CA : 654-64-012 AMES BELL

RUCTUR/ DETAILS ST

PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: DATE: DEC. 10, 2023

SCALE: AS NOTED

ENCI NE JAMES Bell

ST

PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN:

DATE:

DEC. 10, 2023 SCALE:

AS NOTED SHEET NUMBER:

NOTES: 1. FOR MAXIMUM FILL PASS THICKNESS,

Groove

FILL PASS

THICKNESS

ROOT PASS

THICKNESS

ROOT OPENING, R

SCALE: NTS

Angle,

BASE METAL

THICKNESS

WELD PASS SEQUENCE

SEE TABLE 5 ON SHEET 2. 2. FOR MOMENT CONNECTION AT BOTTOM BEAM FLANGE TO COLUMN FLANGE, THE MAXIMUM ROOT PASS THICKNESS SHALL NOT EXCEED 1/4" PER PART V, ITEM 1. FOR WELDED CONNECTION AT ALL OTHER LOCATIONS, SEE TABLE 5 ON SHEET 2 FOR MAXIMUM ROOT PASS THICKNESS.

ROOT OPENING, R, AND GROOVE ANGLEA, SHALL BE PER SELECTED AWS PREQUALIFIED CJP GROOVE

WELDED JOINT DETAIL. WELDING PASS NUMBERS ARE SHOWN DIAGRAMMATICALLY TO INDICATE SEQUENCE. QUANTITY OF PASSES MAY VARY DUE TO DEPTH AND/OR POSITION OF WELD. THIS FIGURE IS INTENDED TO ILLUSTRATE RECOMMENDED WELDING SEQUENCE FOR FCAW AND SMAW WELDING PROCESS ONLY.

CONTINUITY PLATE DETAIL

SCALE: NTS

OF JOINT ON BOTH SIDE Lmin. k _{col}+ 1 1/2" CONTINUITY PLATE SHALL HAVE A THICKNESS GREATER THAN OR EQUAL TO THE BEAM FLANGE OR BEAM FLANGE CONNECTION PLATE.

min. k _{1 c}

BOLT DIAMETER &
QUANTITY PER TABLE DETAIL #1 -CONTINUITY BEAM PER PLAN PLATES PER & SCHEDULE DETAIL #1 - WELD ACCESS HOLE PER DETAIL #3 FULL DEPTH
CJP GROOVE
WELD BEAM WEB
TO COLUMN FLANGE SHEAR PLATE OF THICKNESS TO PER DETAIL #1, LENGTH OF PLATE SO AS TO _N__BACKING PLATE ALLOW 1/8" OVERLAP W/ WELD ACCESS HOLE @ TOP & BOTTOM. WIDTH TO EXTEND 1 1/2" BEYOND END OF WELD ACCESS HOLE (SCALE: 1-1/2" = 1'-0")

SHEAR PLATE CONNECTION

MIN. K_{COLI}

→ **G COLUMN WEB —** MIN. GROOVE ANGLE, 10° 1. A SQUARE-EDGE PLATE AND SQUARE GROOVE WELD BETWEEN DOUBLER PLATE AND COLUMN IS NOT PERMITTED. 2. DOUBLE PLATE FY SHALL HAVE THE SAME AS THE COLUMN FY.

— CONTINUITY PLATE

FILLET WELD, IF USED, SHALL

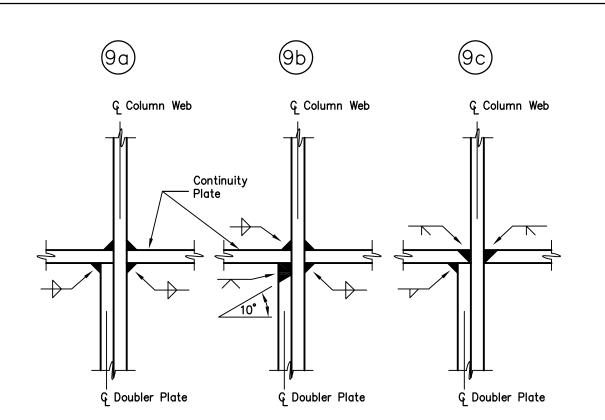
ALIGN CONTINUITY PLATE

WITH BEAM FLANGE

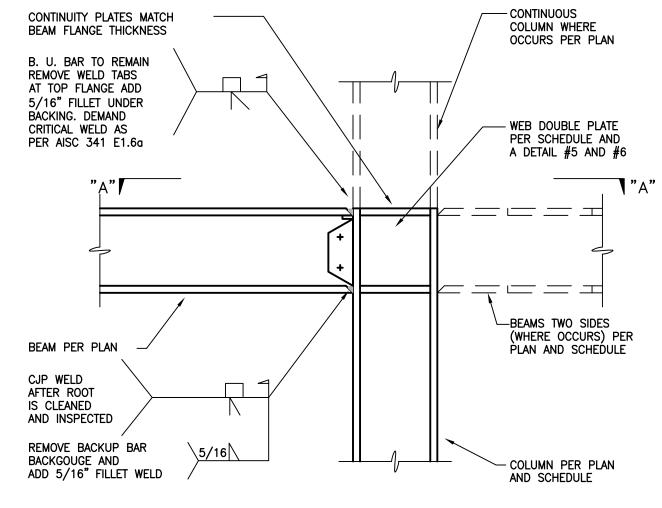
__ MIN. 1/2" RADIUS

TERMINATE A MIN 1/4" FROM END

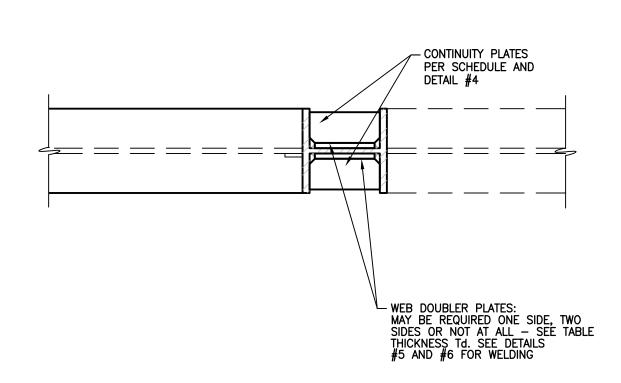
GROOVE WELDED DOUBLER PLATE



DOUBLER PLATE WELDS TO CONTINUITY PLATE



FRAME CONNECTION ELEVATION



SECTION A-A

				SHEAR PL (PER DE	ATE BOLTS ETAIL #9)		CONTINUITY PLATES	TO COLUMN WELDS	WEB DOUBL (PER DETAIL	ER PLATE (S) . #5 AND #6)
GRID	LEVEL	COLUMN	BEAM	ERECTION BOLT DIAMETER (A325)	QUANTITY OF BOLTS	THICKNESS Tp	CONTINUITY PLATE TO COLUMN FLANGE WELD	CONTINUITY PLATE TO COLUMN WEB WELD	THICKNESS Td	1 OR 2 SIDES
1.2	1ST	W12x120	W12x120	7/8"	3	3/4"	CJP GROOVE WELD	CJP GROOVE WELD	7/8"	2
2	2ND	W12x120	W12x50	7/8"	3	3/8"	CJP GROOVE WELD	CJP GROOVE WELD	3/16"	2
2	1ST	W12x120	W12x120	7/8"	3	3/4"	CJP GROOVE WELD	CJP GROOVE WELD	7/8"	2
D	ROOF	W12x96	W12x45	7/8"	3	3/8"	CJP GROOVE WELD	CJP GROOVE WELD	3/16"	2
D	2ND	W12x96	W12x50	7/8"	3	3/8"	CJP GROOVE WELD	CJP GROOVE WELD	1/4"	2
D	1ST	W12x96	W12x96	7/8"	3	5/8"	CJP GROOVE WELD	CJP GROOVE WELD	3/4"	2

NOTES:

ALL WELDS: E70
 ALL GROOVE WELDS: ELECTRODES MUST BE RATED FOR CVN OF AT LEAST 20 ft-lbs AT 0 deg. F. SEE DETAIL #7

PENETRATE THE BEAM FLANGES, WELDED, BOLTED, SCREWED,

OR SHOT-IN ATTACHMENTS FOR PERIMETER EDGE ANGLES,

FACADES, PARTITIONS, DUCT WORK, PIPING, OR OTHER

CONSTRUCTION SHALL NOT BE PLACED WITHIN THE

REQUIRED TO SECURE DECKING ARE PERMITTED.

6. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL

WRITTEN PRIOR APPROVAL OF THE ENGINEER.

MOMENT FRAMES SHALL BE A992 STEEL

8. TACK BACKING BARS WITHIN THE JOINT

STEEL MEMBERS IN THE SEISMIC FORCE RESISTING

SYSTEM FOR THE WORK OF OTHER TRADES WITHOUT

9. THE SPECIFICATION & FABRICATION FOR STEEL FRAMES

11. REFER TO STEEL NOTES SHEET S-1.1 AND S-1.2 FOR QC/QA

L = SPAN

- 1/4" STIFFENER

SUPPORT

BOTH SIDES

1/3 L

GIRDER OR PURLIN

PER PLAN

SUPPORT

SHALL COMPLY WITH WELDING & FABRICATION

10. WELD ACCESS HOLE TO BE PER DETAIL #3

"PROTECTED ZONE". DECKING ARC-SPOT WELDS AS

3. ALL WELDING SHALL CONFORM TO AWS D1.1

FOR FABRICATION REQUIREMENTS.

7. ALL WIDE FLANGE SECTIONS FOR

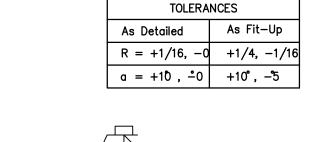
PROCEDURE ON S-1.1

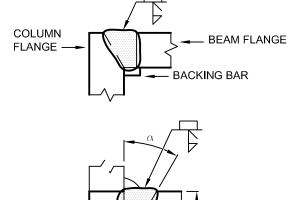
SPECIFICATIONS

4. SEE SPECIFICATIONS ON S-1.1 OF THESE PLANS

5. WELDED SHEAR STUDS, DECKING ATTACHMENTS THAT

ORDINARY MOMENT FRAME CONNECTION

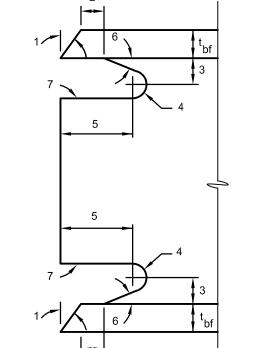




		Base Metal (U = unlim		Groove Prep	aration	Allowed	
Welding Process	Joint Designation	т ₁	т2	Root Opening	Groove Angle	Welding Positions	Gas Shielding for FCAW
CLAN	TO 114	1.1	1.1	R = 1/4	$\alpha = 45$	All	-
SMAW	TC-U4a	U	U	R = 3/8	$\alpha = 30^{\circ}$	F, V, OH	_
				R = 3/16	$\alpha = 30$	All	Required
FCAW	TC-U4a-GF	U	U	R = 3/8	$\alpha = 30$	F	Not required
				R = 1/4	$\alpha = 45$	All	Not required

- 1. GROOVE WELDS IN CORNER AND T-JOINTS OF CYCLICALLY LOADED STRUCTURES SHALL BE REINFORCED WITH FILLET WELDS EQUAL TO T1/4, BUT NEED NOT EXCEED 3/8 INCH.
- 2. FOR CORNER JOINTS, THE OUTSIDE GROOVE PREPARATION MAY BE IN EITHER OR BOTH MEMBERS, PROVIDED THE BASIC GROOVE CONFIGURATION IS NOT CHANGED AND ADEQUATE EDGE DISTANCE IS MAINTAINED TO SUPPORT THE WELDING OPERATIONS WITHOUT EXCESSIVE EDGE MELTING.
- 3. ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING CODE - STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, FIGURE 3.4 PG. 92 (TOP LEFT).

AWS PREQUALIFIED CJP GROOVE WELDED JOINT DETAIL



1. Bevel as required by a selected AWS prequalified CJP groove welded joint detail. 2. Larger of t_{bf} or 1/2" (plus 1/2 t_{bf} , or minus $1/4 t_{bf}$). 3. 3/4 t_{bf} to t_{bf} , 3/4" minimum (± 1/4"). 4. 3/8" minimum radius (plus not limited, or minus 0). 5. 3 t_{bf} (± 1/2"). 6. Tolerances shall not accumulate to the extent that the angle of the access hole cut to the flange surface exceed 25°. 7. Weld access hole shall be ground smooth to a surface roughness value not to exceed 500 micro inch; and shall be free of notches and

WELD ACCESS HOLE DETAIL

TYPICAL WEB STIFFENER-ALL BEAMS SCALE: NTS

CURB @ OUTSIDE CORNER

RA SECTIONS & ELEVATIONS

CONTINUOUS FOOTING

+

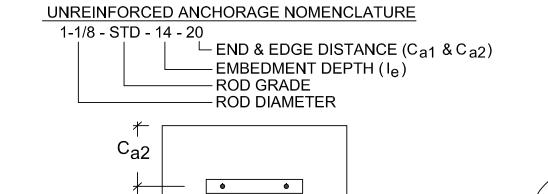
CURB @ OUTSIDE CORNER

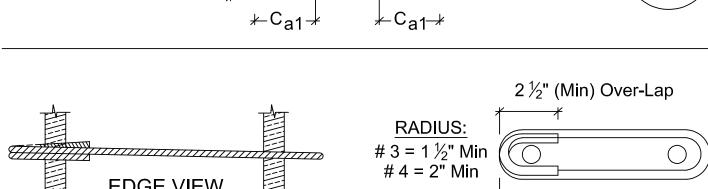
BB-RA SECTIONS & ELEVATIONS

CONTINUOUS FOOTING

UNREINFORCED ANCHORAGE (UA)

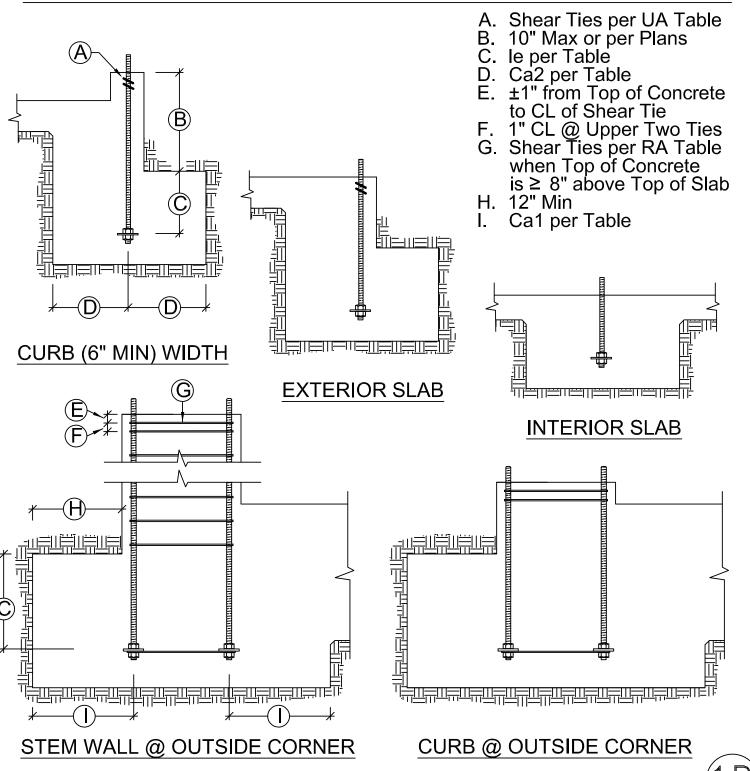
				Rod			UA	
Model		Panel Height	Anchorage ¹	Dia (in)	Rod ^{2,3} Grade	le ⁴ (in)	C _{a1} ⁵ & C _{a2} ⁶ (in)	Shear ^{7,8} Ties
HFX-9>	<	79.5" - 8'	1-1/8-STD-13-19		STD	13	19	
HFX-12	X	78" - 10'						
			1-1/8-HS-20-30		HS	20	30	1 - # 3
HFX-15x,	18x	78" - 13'	1-1/8-STD-14-20		STD	14	20	1 # 0
				1-1/8				
HFX-15x, Balloor		14' - 20'	1-1/8-HS-20-30		HS	20	30	
HFX-21x,	2/v	78" - 13'	1-1/8-STD-14-20		STD	14	20	
111 A-21X,	<u></u>	70 - 10	1-1/8-HS-23-34			23	34	
HFX-21x, Balloon		14' - 20'	1-1/8-HS-20-30		HS	20	30	2 - # 3





LENGTH

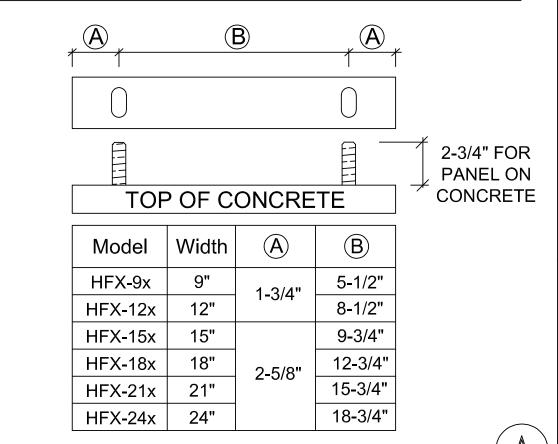
		1	
SHEA	R TIES	NOT REQUI	RED WHEN
Model	Length	End Distance ≥	Edge Distance ≥
HFX-9x	7-1/2"	2-3/8"	2-3/8"
HFX-12x	10-1/2"	6-1/4"	3-1/2"
HFX-15x	12"	7-3/8"	4-1/4"
HFX-18x	15"	8-3/8"	5"
HFX-21x	18"	9-3/8"	5-1/2"
HFX-24x	21"	10-3/8"	6"



UA SECTIONS & ELEVATIONS

TABLE NOTES

- Designs are to resist loading per ACI 318-14, Section 17.2.3.4.3.
- 2. STD indicates Anchors complying with ASTM F1554 Grade 36 with a Hardy Frame Bolt Brace (HFXBB) installed with double nuts on the embed end.
- 3. HS indicates Anchors complying with ASTM A193 Grade B7 with a 1/2"x3"x3"(Min) Plate Washer installed with double nuts on the embed end (HFXBB not required).
- le = length of embedment from the top of footing or grade beam to the top of the HFXBB Bolt Brace (top of the embedded Plate Washer @ HS anchors)
- 5. Ca1 = distance from HD Centerline to the end of the footing or grade beam.
- 6. Ca2 = distance from HD Centerline to both the front and the back face of the footing or grade beam.
- Shear Ties are Grade 60 (Min) rebar and required for near edge distance conditions per ACI-318-14, f'c = 2,500 psi. Curbs and stem walls must be 6 inch (min) width for UA and RA, 12 inch (min) width for BB-RA.
- For UA applications, additional ties may be required at stem walls. Shear Ties are not required for installation away from edge (see detail 1A), installation on wood framing, or for IRC Braced Wall Panel applications.
- Stirrups are Grade 60 (Min) rebar. See table for size and spacing. See "Stirrup Layout" diagrams and "Key" for layout
- 10. Concrete Edge Distances must comply with ACI 318-14, Section 17.7.1



HFX ANCHOR CENTERLINES

IMPORTANT!

- 1. ANCHORAGE IS DESIGNED FOR TENSION AND SHEAR TRANSFER ONLY, FOUNDATION DESIGN PER EOR.
- 2. REINFORCEMENT SHOWN IS THE MINIMUM REQUIREMENT AND IS NOT INTENDED TO REPLACE REINFORCEMENT DESIGNED BY THE EOR.
- 3. FOR RA AND BB-RA INSTALLATIONS, THE HFXBB BOLT BRACE MAY BE PLACED ON TOP OF THE STIRRUPS WITH DOUBLE-NUTS INSTALLED AT EMBED END OF STANDARD GRADE ANCHOR RODS. (NOTE: 1/2" x 3" x 3" PLATE WASHERS ARE REQUIRED TO BE DOUBLE-NUTTED AT EMBED END OF HIGH STRENGTH ANCHOR RODS.)
- HIGH STRENGTH ALL-THREAD RODS PROVIDED BY HARDY FRAMES ARE STAMPED ON BOTH ENDS. В7

IMPORTANT NOTES

1-1-2017

HFX1

732 PALMA DRIVE, SUITE 200, TELEPHONE: 800 754-3030 / w

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REVISIONS DATE

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ANEL

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X

DETAILS

ANCHORAGE

NOT REQUIRED PRODUCTS

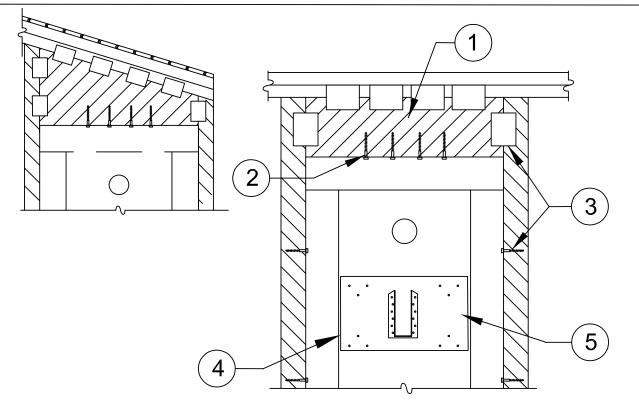
PROPRIETARY AND IS WITH HARDY FRAME

SHEET IS I AN SUBMIT

THIS DETAIL FOR PLA

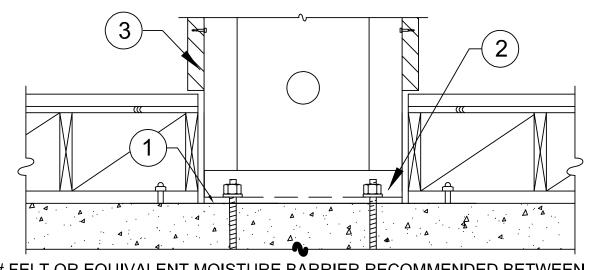
DATE:

BACK TO BACK INSTALLATION



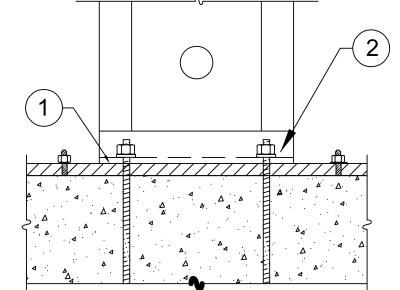
- 1. 4x WOOD FILLER WITH USP MP4-F CONNECTORS (OR EQUAL) BY BUILDING **DESIGN PROFESSIONAL**
- 1/4" x 3" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES ADJACENT FRAMING WITH 1/4" DIAMETER SCREWS IS INSTALLED AT THE EDGES WHEN INSTALLING A 4x FILLER ABOVE OR WHEN SPECIFIED BY DESIGN
- OPTIONAL LEDGER PRE-DRILL 3/16" DIA. HOLES, EVENLY SPACED IN FACE OF PANEL AND INSTALL 1/4" DIA. WOOD SCREWS INTO 2x (MIN.) WOOD LEDGER LOCATED IN PANEL CAVITY.
- 5. CONNECTOR AND ATTACHMENT BY BUILDING DESIGN PROFESSIONAL.

TOP CONNECTION W/ 4x FILLER



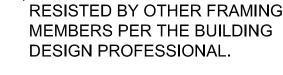
- 1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS. SEE HFX1 FOR ANCHORAGE. ADACCENT FRAMING WITH 1/4" DIAMETER SCREWS IS INSTALLED AT THE
- EDGES WHEN INSTALLING A 4x FILLER ABOVE OR WHEN SPECIFIED BY DESIGN PROFESSIONAL.

RAISED FLOOR HEAD-OUT



- 1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE
- 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.

INSTALLATION ON 2x PLATE



A) OUT OF PLANE FORCES TO BE

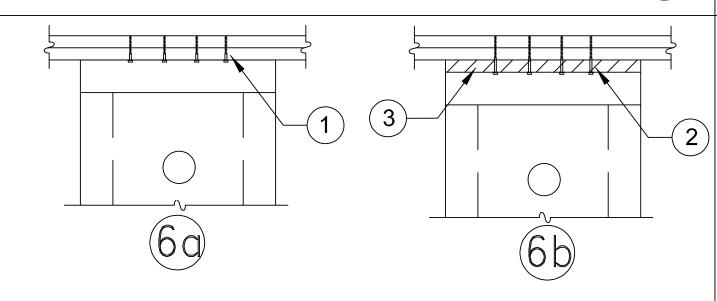
NOTES:

MEMBER.

B) BALLOON WALL APPLICATIONS REQUIRE HIGH STRENGTH ANCHORAGE. SEE FOUNDATION PLAN AND ANCHORAGE TABLES ON SHEET HFX-1

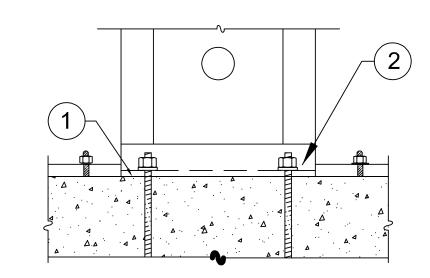
- 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND
- 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.
- WELDED CONNECTION BY HARDY FRAMES, INC. (NO FIELD CONNECTION REQUIRED). A 2x FILLER WITH 1/4" x 4-1/2" MIN USP-WS SCREWS
- (OR EQUAL) IS PERMITTED WHEN REQUIRED BY THE BUILDING DESIGN PROFESSIONAL ATTACH ADJACENT WOOD MEMBERS TO PANEL WITH 1/4" USP-WS SCREWS (OR EQUAL) THROUGH THE PANEL EDGE INTO THE WOOD

BALLOON WALL INSTALLATION



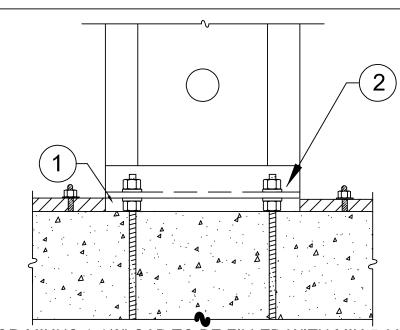
1. 1/4" x 3" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES 2. 1/4" x 4-1/2" (MIN) USP "WS-SERIES" SCREWS (OR EQUAL). QUANTITY PER TABLES 3. 2x WOOD FILLER.

TOP PLATE CONNECTIONS



- 1. 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT AT BOTH ENDS. SEE HFX1 FOR ANCHORAGE.

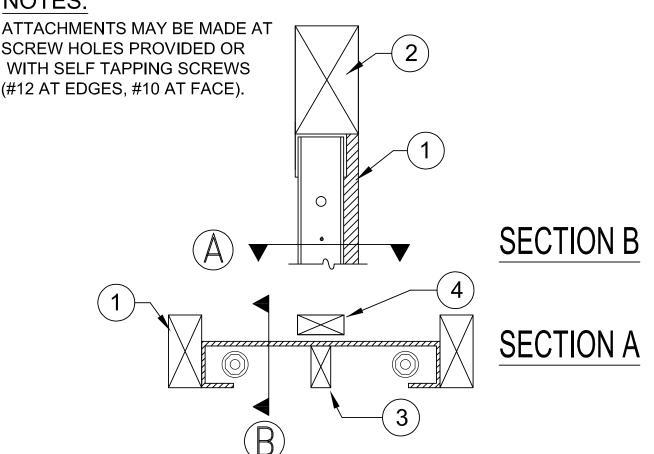
INSTALLATION ON FOUNDATION



- 1. PLUS OR MINUS 1-1/2" GAP TO BE FILLED WITH MIN 5,000 PSI STRENGTH NON-SHRINK GROUT.
- 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.

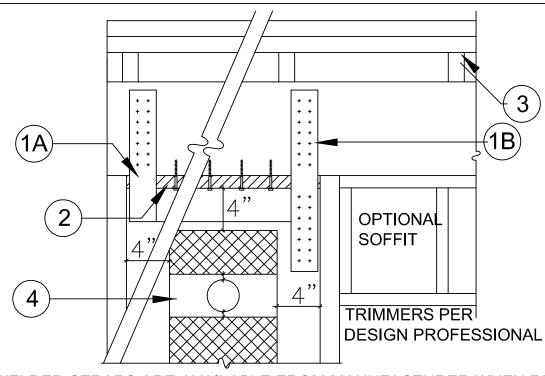
INSTALLATION ON NUTS&WASHERS (4) INSTALLATION ON CURB

NOTES:



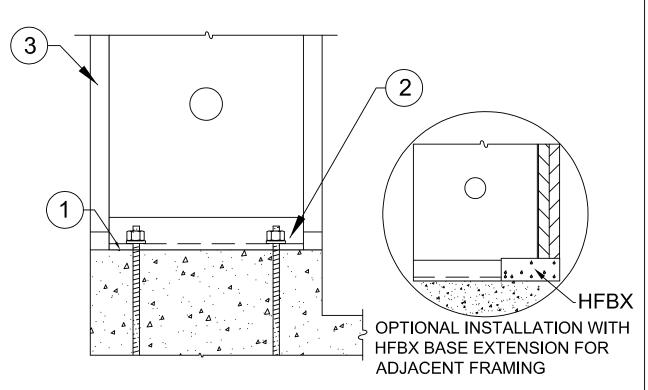
- TRIMMERS PROVIDE FULL BEARING FOR HEADER ABOVE, DESIGN AND CONNECTIONS BY OTHERS.
- 2. 6x HEADER
- WOOD MEMBERS MAY BE INSERTED VERTICALLY OR HORIZONALLY IN CAVITY FOR BACKING AS NEEDED.

6x HEADER ABOVE-SECTION



- 1A. WELDED STRAPS ARE AVAILABLE FROM MANUFACTURER WHEN REQUIRED BY THE DESIGN PROFESSIONAL
- 1B. WHEN STRAPS ARE FIELD INSTALLED THE DESIGN AND CONNECTION IS BY THE DESIGN PROFESSIONAL. CONNECTION TO PANEL WITH SELF TAPPING SCREWS IS PERMITTED.
- 2. A 2x WOOD FILLER WITH 1/4"x4-1/2" (MIN.) USP "WS" SERIES SCREWS OR **EQUAL IS PERMITTED**
- 3. WHEN CRIPPLE STUDS OCCUR, SHEAR TRANSFER DESIGN TO BE PER THE DESIGN PROFESSIONAL
- 4A. THERE IS NO "INSIDE" OR "OUTSIDE" FACE OF PANEL. TO PREVENT THE NEED FOR ADDITIONAL HOLES ORIENT THE PANEL CAVITY TOWARD THE FIXTURE BEING INSTALLED.
- 4B. A 1" DIA. HOLE MAY BE ADDED IN THE PANEL FACE WHEN IT IS LOCATED IN THE UPPER HALF OF THE PANEL HEIGHT AND IS 4" MIN. FROM ANY EDGE. FOR PANELS MORE THAN 12" WIDE, ADDITIONAL HOLES MUST ALSO BE 1" MINIMUM ABOVE AND BELOW THE 3" DIA. HOLE PROVIDED.
- 4C. FOR HOLES LARGER THAN 1" DIA. OR TO ADD MORE THAN ONE HOLE CONTACT HARDY FRAMES, INC

CONNECTION TO HEADER



- 15# FELT OR EQUIVALENT MOISTURE BARRIER RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. ROUND-FLAT WASHERS AND 1 EA. GRADE 8 HEX NUT. SEE HFX1 FOR ANCHORAGE.

3. ADJACENT FRAMING OPTIONAL U.N.O. BY BUILDING DESIGN PROFESSIONAL

HFX-SERIES 78 IN. THRU 13 FOOT Screw Qty Hold Down Model Height | Depth | Diameter¹ Screw Qty² Available at Number Edges (ea)³ (in) HFX-12,15,18,21 & 24x78 | 78 9" Width = 5 HFX-9x79.5 79-1/2 12" Width = 6 HFX-12,15,18,21 & 24x8 | 92-1/4 93-3/4 HFX-9x8 15" Width = 8 3-1/2 1-1/8 HFX-12,15,18,21 & 24x9 | 104-1/4 18" Width = 10HFX-12,15,18,21 & 24x10 116-1/4 HFX-15,18,21 & 24x11 128-1/4 21'' Width = 12'HFX-15,18,21 & 24x12 140-1/4 24" Width = 14 HFX-15,18,21 & 24x13 152-1/4

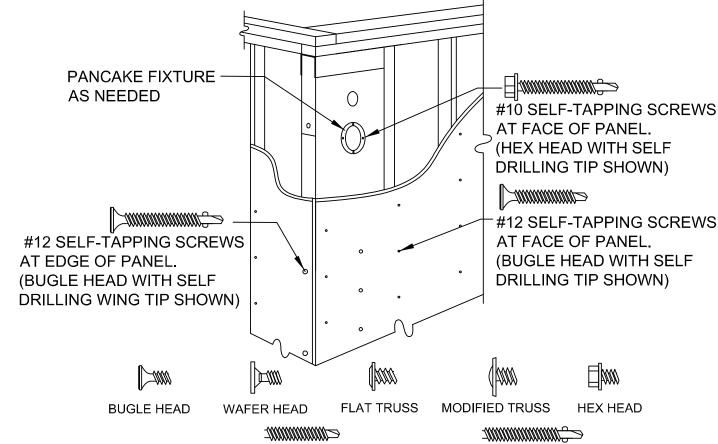
BALLOON	PANEI	_S 1	4 FEET	THRU 20	FEET
Model Number	Net Height (in)	Depth (in)	Hold Down Diameter ¹ (in)		Screw Qty Available at Edges (ea)
HFX-15,18,21 & 24x14	164-1/4			15" Width = 8	
HFX-15,18,21 & 24x15	176-1/4				6
HFX-15,18,21 & 24x16				18" Width = 10	
HFX-15,18,21 & 24x17	200-1/4		1-1/8	04".\\".\\".\\	7
HFX-15,18,21 & 24x18				21" Width = 12	
HFX-15,18,21 & 24x19				24" \\/idth = 14	8
HFX-15,18,21 & 24x20	236-1/4			24" Width = 14	
1) Hold down holts cou	nect to	the Pan	el hase wit	th (1 ea) Hardene	d Round

- Hold down boits connect to the Panel base with (1 ea) Hardened Round, (2 ea) Round-Flat or (2 ea) SAE Washers below (1 ea) Grade 8 Hex Nut on each rod or as specified by the Building Design Professional
- 2) 1/4" diameter USP-WS Series screws (or equal). Length is 3" (minimum) when attached directly to the collector and 4-1/2" (minimum) when installing a 2x filler above the Panel.
- 3) Adjacent framing with 1/4" diameter screws is required at the edges when installing a 4X filler above or when specified by the Design Professional

INSTALLATION INSTRUCTIONS

- A) When installing directly on concrete, place Panel over bolts and connect with (1 ea) Hardened Round, (2 ea) Round-Flat or (2 ea) SAE Washers below (1 ea) Grade 8 or 2H Heavy Hex Nut. Secure with a deep socket (recommended) until "Snug Tight".
- B) If bottom connection is not detailed on plans, confirm with Design Professional before installing on Nuts & Washers or on a Mudsill.
- C) Use 1/4"x4-1/2" USP-WS Series screws (or equal) at top connections with a 2x filler. If the top of Panel is in direct contact with the collector above (top plates, header, beam, etc.) use1/4 x 3" (minimum)
- D) For installations with a 4x filler above 1/4" diameter screws are required at the Panel edges to brace for the out-of-plane hinge or when they are specified by the Design Professional.

0::::0 $0 \cdots 0$ 15" PANEL 9" PANEL 12" PANEL 18" PANEL 21" PANEL 24" PANEL



1) SURFACE FINISHES, CONNECTORS AND FIXTURES ARE ATTACHED TO THE PANEL FACE WITH # 10 SELF-TAPPING SCREWS SPACED NO LESS THAN 2-1/4" OC. 2) ATTACHMENTS TO THE PANEL EDGES ARE MADE WITH # 12 SELF-TAPPING SCREWS. 3) STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY THE DESIGN PROFESSIONAL 4) STRUCTURAL HARDWARE USED TO TRANSFER LOADS SHOULD NOT EXCEED 12 GAGE.

SELF DRILLING WING TIP

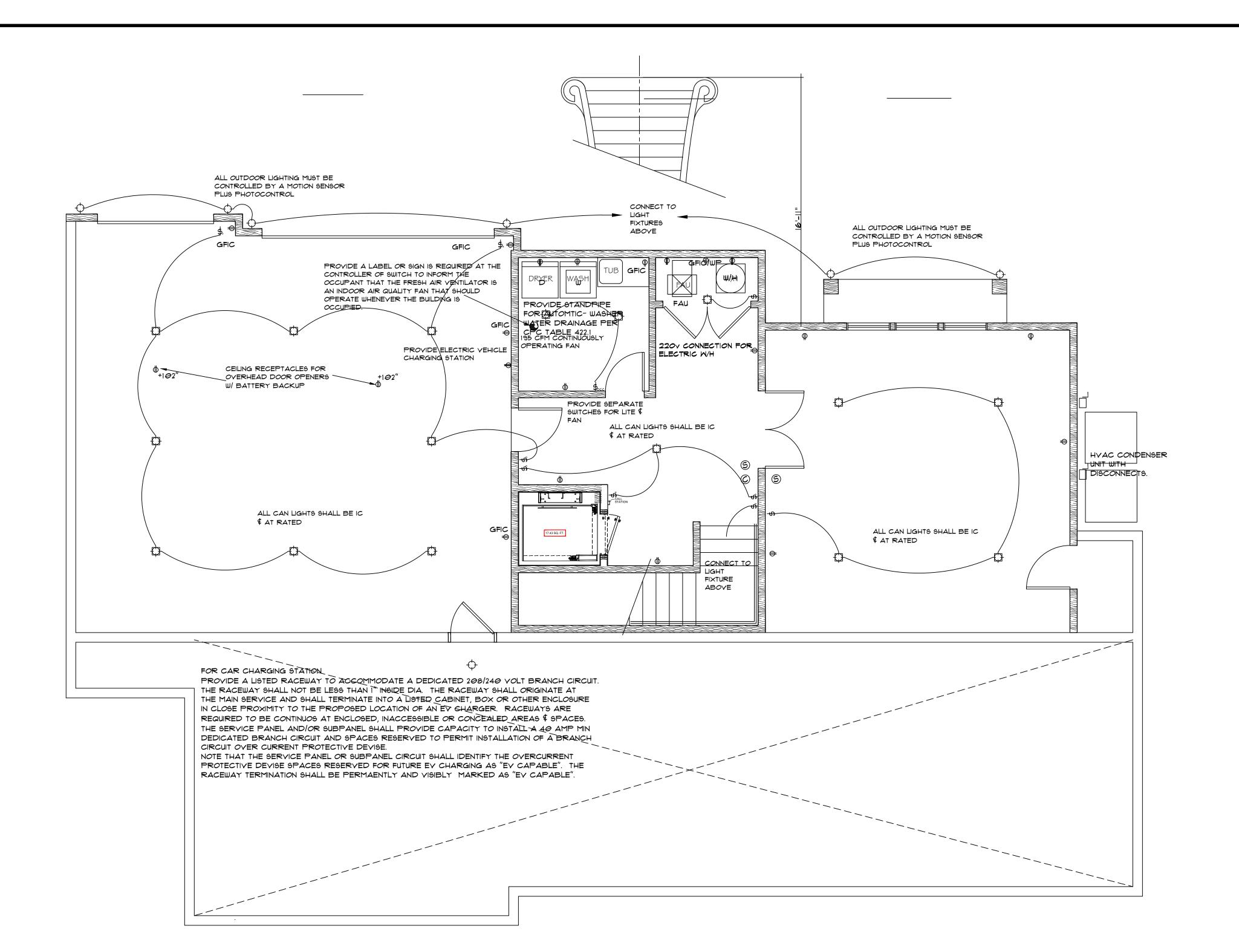
SELF DRILLING TIP

HFX2

REVISIONS DATE

FRAMING

DATE: 1-1-2017



	SYMBOL LEGEND
\$,,,,	MANUAL ON - VACANCY SENSOR SWITCH
\$.	DIMMER SMITCH
\$	SINGLE POLE LIGHT SWITCH
\$.	3-MAY LIGHT SMITCH
\$₄	4-MAY LIGHT SMITCH
Ф	DUPLEX RECEPTACLE
	FAN/LITE COMBO
Ф	220V RECEPTACLE
9	SMOKE DETECTOR
0	CARBON MONOXIDE DETECTOR
₩	FLUORESCENT STRIP FIXTURE
	EXHAUST FAN -
$\overline{\diamondsuit}$	LIGHT FIXTURE
\(\phi\)	RECESSED LIGHT FIXTURE



LOWER LEVEL PLAN



STEVE BENZING ARCHITECT

C-1798

12403 FREDERICKSBURG SARATOGA CALIFORNIA

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM WEBSITE: BENZARCH.COM

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LOWER LEVEL ELECTRICAL PLAN

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

SCALE: NOTE

DRAWN BY:5MB JOB NO. 1908



FILE NO. 10706-17G R4

MECHANICAL & PLUMBING NOTES

PROVIDE APPROVED MIXING VALVES FOR ALL TUB/SHOWER & SHOWER LOCATIONS

PROVIDE CLEANOUTS AT THE END OF ALL WASTE LINES

PROVIDE PRESSURE RELIEF PIPING TO THE EXTERIOR OF THE BUILDING FOR THE

TERMINATION OF ALL ENVIRONMENTAL AIR DUCTS SHALL BE A MINIMUM OF 3 FEET FROM ANY OPENING INTO THE BUILDING. PER CMC 504.5

ALL DUCTS AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL, OR OTHER ACCEPTABLE METHODS AT THE TIME OF ROUGH INSTALLATIION OR DURING STORAGE ONT HE CONSTUCTION SITE & UNTIL FINAL STARTUP OF THE HEATING & COOLING EQUIPMENT

ATTIC FURNACE SHALL COMPLY WITH SECTION 904.10 OF THE CMC.

- PROVIDE SOLID FLOORING NOT LESS THA 24" WIDE FROM THE SERVICE ENTRANCE OPENING TO THE FURNACE
- SPECIFY A 30"X30" MIN LEVEL SERVICE SPACE IN FRONT OF THE FURNACE IN
- PROVIDE A RECEPTACLE OUTLET AND LIGHT FIXTURE NEAR THE APPLIANCE, WITH A SWITCH CONTROLLING THE LIGHTING FIXTURE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY

DRYER EXHAUST DUCT SHALL NOT EXCEED A TOTAL COMBINED HORIZ & VERTICAL LENGTH OF 14 FEET, INCLUDING 2 - 90 ELBOWS

ALL EXHAUST OUTLETS SHALL BE LOCATED A MIN OF 10 FEET FROM DOORS, OCCUPIED AREAS & OPERABLE WINDOWS

ALL PLUMBING WASTE VENTS SHALL TERMINATED AT LEAST 10 FEET HORIZONTALLY & 3 FEET ABOVE ANY OPERABLE WINDOWS, DOOR, VENT OPENING OR AIR INTAKE

THE GRADE OF HORIZONTAL DRAINS SHALL NOT BE LESS THAN 1/4" PER FOOT

PROVIDE A PRESSURE ABSORBING DEVICE (OR APPROVED MECHANICAL DEVICE PER ASSE 1010 OR PDI-MH-201) LOCATED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES, THAT WILL ABSORB HIGH PRESSURE RESULTING FROM QUICK CLOSING OF QUICK ACTING VALVES

12403 FREDERICKSBURG

ARCHITECT

SARATOGA CALIFORNIA

STEVE BENZING

TEL 408 805 1328 EMAIL STEVE@BENZARCH.COM

OWNERSHIP AND USE OF DRAWINGS

WEBSITE: BENZARCH.COM

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MAIN LEVEL ELECTRICAL

NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA FOR:

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

DRAWN BYSMB

JOB NO.

ELECTRICAL PLAN

THIS PROJECT MUST COMPLY WITH THE 2022CALIF ENERGY CODE

ALL OUTLETS WITHIN 12 INCHES OF ANY WATER SOURCE SHALL BE ON A GFCI CIRCUIT

ALL LIGHT FIXTURES WITHIN A TUB AND/OR SHOWER ENCLOSURE SHALL BEAR THE LABEL "SUITABLE FOR DAMP LOCATION".

PROVIDE TWO SMALL APPLIANCE BRANCH CIRCUITS FOR THE KITCHEN. THEY SHALL BE LIMITED TO SUPPLYING WALL AND COUNTERSPACE OUTLETS.

PROVIDE A DEDICATED 20-AMP CIRCUIT TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY LIGHTS, FANS, OR ANY OTHER TYPE OF ELECTRICAL DEVICE OR FIXTURE.

PROVIDE SMOKE DETECTORS \$ CARBON MONOXIDE DETECTORS PER CRC. HARDWAIRE AND INTERCONNECT PER 2022 CEC 314.3.2 \$ 315

PROVIDE LISTED COMBINATION AFCI BREAKERS FOR ALL ELECTRICAL CIRCUITS PER SECTION 210.12(A) \$ (B) OF 2022 CEC.

ALL OUTLETS SHALL BE TAMPER-RESISTANT PER ARTICLE 406.12 OF 2022 CEC.

ALL EXTERIOR OUTLETS SHALL BE WEATHER RESISTANT AND HAVE A WEATHER-RESISTANT BUBBLE COVER PER ARTICLE 406.11 OF 2022 CEC.

CARBON MONOXIDE ALARMS SHALL BE PLACED JUST OUTSIDE THE IMMEDIATE VICINITY OF EACH SLEEPING AREA PER SECTION 315 OF 2022 CEC.

ALL 110 YOLT SINGLE-PHASE OUTLETS SHALL HAVE GROUND FAULT CIRCUIT PROTECTION AT THE FOLLOWING LOCATIONS:

BATHROOMS

GARAGE

EXTERIOR OF BUILDING AND BEYOND ALL KITCHEN COUNTERS

WITHIN GFTOF ANY SINK

ALL BRANCH CIRCUITS THAT SUPPLY OUTLETS IN THE KITCHEN, FAMILYROOS, DINING, LIVING, LAUNDRY AREA OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER

ALL LIGHTING AS HIGH EFFICACY (I.E. PIN BASE CFL:PULSE START MH, HPS,GU-24 SOCKETS OTHER THAN LED'S. LED LUMINARIES WITH INTEGRA SOURCES .) CEC TABLE 150.0-A SCREW-BASED PERMANENTLY INSTALL LIGHT FIXTURES MUST CONTAIN SCREW-BASED JAS COMPLIANT LAMPS. JAS COMPLIANT LIGHT SOURCES

MUST BE MARKED AS "JA8-2016 OR JA8-2016-E. ALL JAS COMPLIANT LIGHT SOURCES IN THE FOLLOWING LOCATIONS ARE CONTROLLED BY VACANCY SENSORS OR DIMMERS (EX. CLOSETS

A.CEILING RECESSED DOWNLIGHT LUMINARIES

B.LED LUMINARIES WITH INTEGRAL SOURCES

C.PIN-BASED LED LAMPS D.CU-24 BASED LED LIGHT SOURCES

AT LEAST ONE FIXTURE IN EACH BATHROOM CONTROLLED BY A VACANCY SENSOR

AT LEAST ONE FIXTURE IN THE GARAGE CONTROLLED BY A VACANCY SENSOR.

AT LEAST ONE FIXTURE IN EACH LAUNDRY ROOM CONTROLLED BY A VACANCY SENSOR SEPARATE SWITCHING FOR ANY UNDER CABINET LIGHTING (INCL KITCHEN LIGHTING) FROM OTHER LIGHTING SYSTEMS

ALL OUTDOOR LIGHTING SHALL BE HIGH-EFFICACY LIGHTING WITH A MANUAL ON/OFF SWITCH \$ ONE OF THE FOLLOWING A.PHOTOCONTROL \$ MOTION SENSOR

B.PHOTOCONTROL \$ AUTOMATIC TIME SWITCH CONTROL C.ASTRONIMICAL TIME SWITCH CONTROL

D.ENERGY MANAGEMENT CONTROL SYSTEMS

LUMINARIES IN INSULATED CEILINGS MUST BE RATED FOR DIRECT INSULATION CONTACT, RATED AIR-TIGHT PER ASTM E283, AND MUST HAVE A SEALED GASKET OR CAULKING BETWEEN THE HOUSING AND THE CEILING TO PREVENT THE FLOW OF HEATED OR COOLED AIR BETWEEN THE LIVING SPACE AND THE ATTIC / CEILING SPACE

PROVIDE A CONTINUOUSLY RUNNING FAN OF A MIN OF 195 CFM IN THE LAUNDRY 5850 SF/100 = 59 CFM + (5x1.5) = 195 CFM REQUIRED TO MEET THE REQUIREMENTS OF TITLE 24 PART 6, MANDATORY MEASURES #150(00 AND THE ASHRAE 63.2 STDS.

BATHROOM EXHAUST FANS MUST BE ENERGY STAR COMPLIANT, MUST BE DUCTED TO TERMINATE OUTSIDE THE BUILDING AND MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.

ALL BATHROOM LIGHTS MUST BE HIGH EFFICACY \$ AT LEAST ONE FIXTURE IN EA BATHROOM MUST BE ON A VACANCY

PROVIDE SEPARATE ELECTRICAL CIRCUITS FOR 20 AMPS FOR BATHROOMS 2(20) AMP SMALL APPLIANCE CIRCUITS FOR

THE KITCHEN MOTOR (FAU) JACUZZI MOTORS (IF APPLICABLE) GARBAGE DISPOSAL DISHWASHER 1- 20 AMP LAUNDRY CIRCUIT

	SYMBOL LEGEND
\$,,,	MANUAL ON - VACANCY SENSOR SMITCH
\$.	DIMMER SMITCH
\$	SINGLE POLE LIGHT SMITCH
\$.	3-MAY LIGHT SMITCH
\$,	4-MAY LIGHT SMITCH
Ф	DUPLEX RECEPTAGLE
	FAN/LITE COMBO
₫	220V RECEPTACLE
9	SMOKE DETECTOR
0	CARBON MONOXIDE DETECTOR
₩	FLUORESCENT STRIP FIXTURE
	EXHAUST FAN -
\Diamond	LIGHT FIXTURE
\Box	RECESSED LIGHT FIXTURE

MAIN FLOOR PLAN

ALL CAN LIGHTS SHALL BE IC

ALL CAN LIGHTS SHALL BE IC

\$ AT RATED

\$ AT RATED



ALL CAN LIGHTS SHALL BE IC

BATHROOM EXHAUST

CONTROLLED BY A

FANS MUST BE

HUMIDISTAT

\$ AT RATED

CONNECT TO LIGHT FIXTURE

ABOVE

94¥ton

17.43 SQ. FT

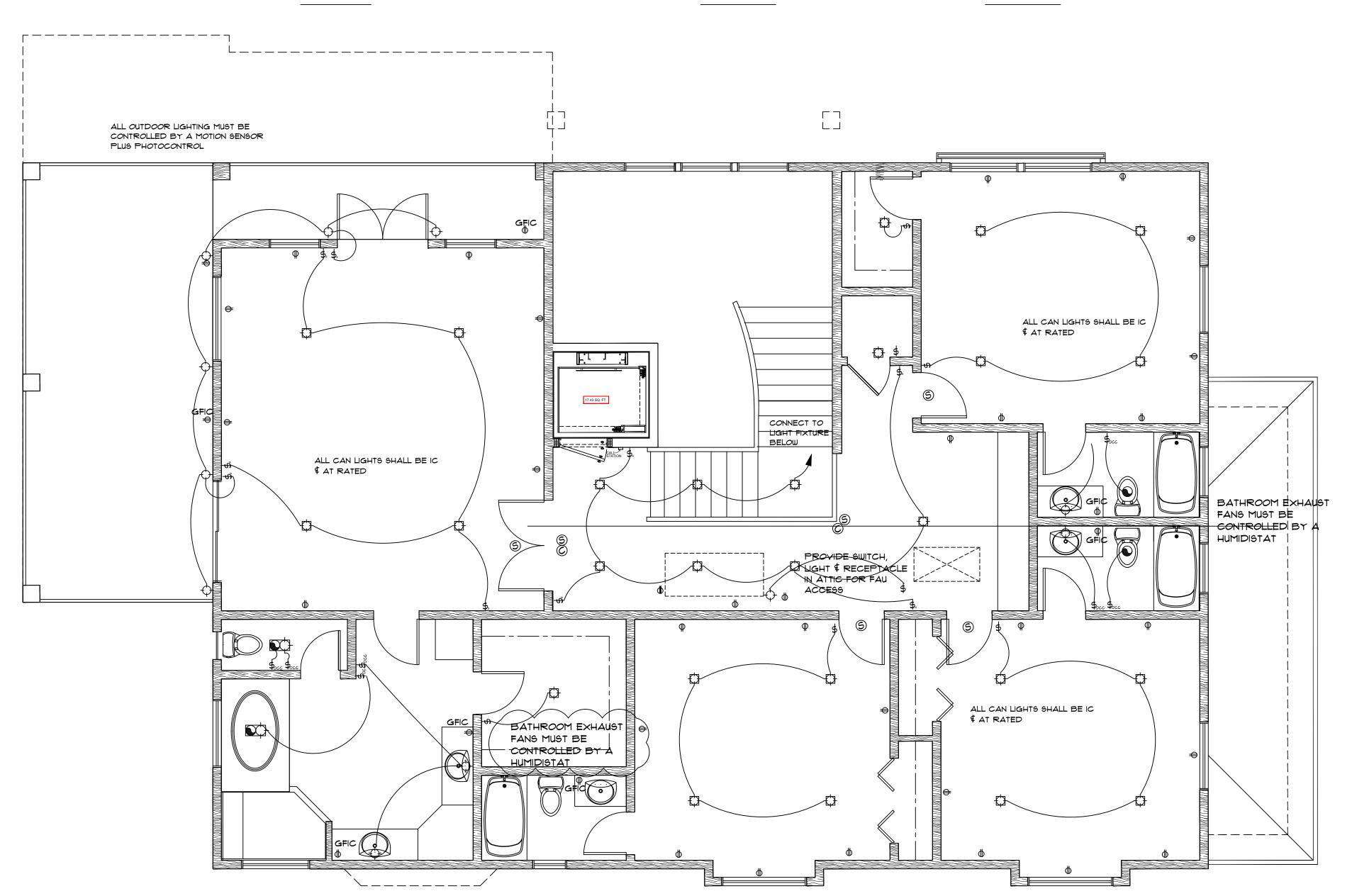
12/17/2023 10:44:18 AM, Steve Benzing - Architect

GFIC

ALL OUTDOOR LIGHTING MUST BE CONTROLLED BY A MOTION SENSOR

PLUS PHOTOCONTROL

FILE NO. 10706-17G R4



ATTIC FURNACE SHALL COMPLY WITH SECTION 904.10 OF THE CMC.

- PROVIDE SOLID FLOORING NOT LESS THA 24" WIDE FROM THE SERVICE
- ENTRANCE OPENING TO THE FURNACE
- SPECIFY A 30"X30" MIN LEVEL SERVICE SPACE IN FRONT OF THE FURNACE IN
- PROVIDE A RECEPTACLE OUTLET AND LIGHT FIXTURE NEAR THE APPLIANCE, WITH A SWITCH CONTROLLING THE LIGHTING FIXTURE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY

SYMBOL LEGEND
MANUAL ON - VACANCY SENSOR SWITCH
DIMMER SMITCH
SINGLE POLE LIGHT SWITCH
3-MAY LIGHT SMITCH
4-MAY LIGHT SMITCH
DUPLEX RECEPTACLE
FAN/LITE COMBO
220V RECEPTACLE
SMOKE DETECTOR
CARBON MONOXIDE DETECTOR
FLUORESCENT STRIP FIXTURE
EXHAUST FAN -
LIGHT FIXTURE
RECESSED LIGHT FIXTURE



UPPER FLOOR PLAN

NORTH SCALE 1" = 1'-0"

LEYEL ELECTRICAL

STEVE BENZING ARCHITECT

12403 FREDERICKSBURG

SARATOGA CALIFORNIA

EMAIL STEVE@BENZARCH.COM

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PLAN NEW RESIDENCE ON BELLA MADERIA LANE SAN JOSE, CA

MR. JAMES LE 330 PIERCY RD. SAN JOSE, CA 95138

REVISIONS:

DATE: 1/3/23

DRAWN BY:SMB

JOB NO. 1908



12/27/2023 10:44:28 AM, Steve Benzing - Architect FILE NO. 10706-17G R4



COUNTY OF SANTA CLARA

2019 CALGREEN RESIDENTIAL CHECKLIST (MANDATORY+TIER 1)

County Amendments to CALGreen are in Italics.

- Designer to cross out items that are not applicable to the project. - Installer or designer shall verify all applicable requirements have been satisfied and sign and date each row. County Inspectors will verify completion signatures and supporting documentation DURING CONSTRUCTION.

					T TO COMPLETE ck Review Data	Ins	staller or Designer Verification]
ITE	M #	CALGreen CODE SECTION	REQUIREMENT PLANNING AND DESIGN: MAN	REFERENCE SHEET	No.	Date	Installer or Designer Signature	
			A plan is developed and implemented	CG-3	NOTE 1	Г		1
:	1	4.106.2	to manage storm water drainage during construction.					
Ž	2	4.106.3	Construction plans indicates how site grading or a drainage system will manage all surface water flows to keep water from entering buildings.	CG-3	NOTE 2			
	3	4.106.4.1	For new dwellings and the rebuild of existing dwellings that include a panel upgrade or construction between panel and parking area, a raceway to a dedicated 208/240-volt branch circuit meeting the requirements, is installed.	CG-3	NOTES 3 & 4			
	4	A4.106.2.3	PLANNING AND DESIGN: TIER 1 M Displaced topsoil is stockpiled for reuse in a designated area and covered or		NOTE 7			
į	5	A4.106.4	protected from erosion. Not less than 20 percent of the total parking, walking or patio surfaces are permeable.	CG-4	NOTE 9			
(6	A4.106.8.1	For new dwellings with attached private garages, a dedicated 208/240-volt branch circuit including an overcurrent protective device is installed in the raceway, meeting the applicable requirements.	CG-4	NOTE 12			
			PLANNING AND DESIGN: TIER 1	ELECTIVE R	EQUIREMENTS			1
	7	A4.103.1	An infill site, greyfield site or EPA- recognized and Brownfield site is applicable.	CG-4	NOTE 1			
cable	8	A4.103.2	Community connectivity is facilitated by one of the approved methods.	CG 4	NOTE 2			1
he rows not applicable	9	A4.104.1	An individual with oversight responsibility for the project has participated in an educational program promoting environmentally friendly design or development and has provided instruction to appropriate entities.	CG-4	NOTE 3			-
Cross out the	10	A4.105.2	Existing buildings are disassembled for reuse or recycling of building materials. The proposed structure utilizes at least one of the listed materials.		NOTE 4			
measures - (11	A4.106.2.1	Soil analysis is performed by a licensed design professional and the findings are utilized in the structural design of the building.	CG-4	NOTE 5			
ve me	12	A4.106.2.2	Soil disturbance and erosion are minimized by using one or more of the	CG-4	NOTE 6			1
o Tier 1 elective	13	A4.106.3	Landscape areas disrupted during construction are restored to be consistent with native vegetation and/or at least 75% native California or drought tolerant plant and tree are	CG-4	NOTE 8			
at least two	14	A4.106.6	utilized. A vegetated roof for at least 50% of the roof area is installed. Vegetated roof complies with CBC chapters 15	CG-4	NOTE 10			-
Comply with at	15	A4.106.7	and 16. Nonroof heat islands are reduced for 50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.	CG-4	NOTE 11			-
Con	16	A4.106.10	Outdoor lighting systems are designed and installed to comply with one of the		NOTE 13			}
			methods listed. ENERGY EFFICIENCY: MAND	CG-1	A4.106.10			
1	.7	4.201.1	Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.	T24 SHEETS		NEC		
1	.8	4.303.1	Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.	CG-3	NOTE 5	1413		
1	.9	4.303.2	Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards.	CG-3	Note 6			
2	20	4.304.1	Outdoor potable water use in landscape areas comply with a local water efficient landscape or the current California DWR MWELO, whichever is more stringent.	: CG-3	Note 7			
2	1	4.305.1	For new dwellings where disinfected tertiary recycled water is available, installation of recycled water supply system is required per CPC chapter 15.	CG-3	Note 8			

		CALGreen			k Review Data		Verification Installer or Designer	1
ITE	M #	CODE SECTION	REQUIREMENT TER FEELCIENCY & CONSERVATION :	REFERENCE SHEET	Note or Detail No.	Date 4FNTS	Installer or Designer Signature	-
	22	WA ¹ A4.303.1	Kitchen faucet maximum flow rate does not exceed 1.5 gpm at 60 psi.	CG-4	NOTE 14	TENTS		_
] 		, (7.505.1	See exceptions. Alternate nonpotable water resources	CG-4	NOIL 14			
not applicable	23	A4.303.2	are used for indoor potable water reduction and are installed in accordance with CPC.	CG- 4	NOTE 15			
пот ар	24	A4.303.3	At least one qualified ENERGY STAR dishwasher or clothes washer is	CG-4	NOTE 16			\leftarrow
rows	25	A4.303.4	installed. Nonwater urinals or composting toilets	CG-4	NOTE 17			1
out the r			Dwelling is equipped with a demand hot water recirculation system. The		·			-
Cross ou	26	44.303.5	system is installed per CPC, CEnC, and the manufacturer's installation instructions.	CG-4	NOTE 18			
۱ ۱	27	A4.304.1	An approved rainwater catchment system is designed and installed to use rainwater generated by at least 65% of the available roof area. The system is installed per CPC		NOTE 19			
least two Tier 1 elective measures	28	A4.304.2	A water efficient landscape irrigation design that eliminates the use of potable water, is provided. Nethod used to accomplish the requirements comply with California Building Standards Code and one or more of	CG-	NOTE 20			
	29	A4.304.3	listed methods. Separate submeters or metering devices for outdoor potable water use is provided for landscape areas less than 5000 sq.ft.	CG-4	NOTE 21			-
comply with at le	30	A4.305.1	Alternative plumbing piping is installed to permit the discharge from the clothes washer or other fixtures to be used for an irrigation system in	CG-4	NOTE 22			
Comp	31	A4 305.2	Compliance with CPC. Dual water piping is installed for future use of recycled water at listed	CG-4	NOTE 23			
	1	A4.305.3	locations. Recycled water is used for landscape irrigation.	CG-4	Note 24			-
		MATERIA	AL CONSERVATION & RESOURCE EFFI Annular spaces around pipes, electric	CIENCY: MA	NDATORY REQU	JIREME	NTS	
3	3	4.406.1	cables, conduits or other openings in plates at exterior walls are protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or similar method acceptable to the County of Santa Clara.	CG-3	Note 9			
3	4	4.408.1	Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste. Submit either a Construction Waste management plan (CALGreen 4.408.2) or Utilize a waste management company (CALGreen 4.408.3).	CG-3	Note 10			
3	:5	4.408.5	Documentation is provided to County of Santa Clara which demonstrates compliance with CALGreen sections 4.408.2 or 4.408.3.	CG-2	Construction Waste Management Forms Note 11			
3	6	4.410.1	An operation and maintenance manual is placed in the building at the time of	CG-3	Note 12			
			final inspection. ONSERVATION & RESOURCE EFFICIE Reduction in cement use in foundation			EQUIRE	EMENTS	
	87	A4.403.2 A4.405.3.1	mix design is not less than 20 percent. Use materials with a total RCV (recycled content value) not less than a 10-percent of the total material cost of the project except structural framing	CG-4	Note 26 Note 33			_
3	9	A4.408.1	material. Reduce construction waste by at least 65%. Documentation is submitted to the County of Santa Clara demonstrating compliance.	CG-2	Construction Waste Management Forms			-
	ı	MATERIAL	CONSERVATION & RESOURCE EFFICE A Frost-Protected Shallow Foundation	CG-34 IENCY: TIER	Note 41	QUIREM	IENTS	
	40	A4 400 3	(FPSF) is utilized in compliance with CRC. The required manual includes	00	NOTE 35			
	40	A4.403.1	instructions to the owner or accupant regarding the necessity for heating the structure per CRC R403.3.	CG-4	NOTE 25			
	41	A4 404 1	Beams, headers and trimmers are sized and installed as specified in Chapter 23 of CBC or Chapter 6 of	CG-4	NOTE 27			\leftarrow
piicable		A4.404.1	CRC.					
vs not applicable	42	A4.404.2	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure.	CG-4	NOTE 28			
ne rows not applicable	42		Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn	CG-4	NOTE 28			-
loss out the rows not applicable		A4.404.2	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for one-site cuts, for the listed	CG-4				-
- Cross out the rows not	43	A4.404.2 A4.404.3	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable	CG-4	NOTE 29			-
- Cross out the rows not	43	A4.404.2 A4.404.3	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional	CG-4	NOTE 29			-
- Cross out the rows not	43 44 45	A4.404.2 A4.404.3 A4.404.4 A4.405.1	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.405.1. Concrete floors that do not require additional coverings are used. One or more of the listed materials from rapidly renewable sources or	CG-4	NOTE 29 NOTE 30 NOTE 31			
I elective measures - Cross out the rows not	43 44 45 46	A4.404.2 A4.404.3 A4.404.4 A4.405.1	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.495.1. Concrete floors that do not require additional coverings are used. One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used. Foundation and landscape drains with discharge to an approved on-site	CG-4 CG-4 CG-4	NOTE 29 NOTE 30 NOTE 31 NOTE 32			-
iler i elective measures - Cross out the rows not	43 44 45 46 47	A4.404.2 A4.404.3 A4.404.4 A4.405.1 A4.405.2 A4.405.4	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.485.1. Concrete floors that do not require additional coverings are used. One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used. Foundation and landscape drains with discharge to an approved on-site location is installed. Roof gutter and downspout system is installed to route water at least 5 feet away from the foundation or connect to landscape drains with approved on-	CG-4 CG-4 CG-4	NOTE 29 NOTE 30 NOTE 31 NOTE 32 NOTE 34			
iler i elective measures - Cross out the rows not	43 44 45 46 47 48	A4.404.2 A4.404.3 A4.404.4 A4.405.1 A4.405.2 A4.405.4 A4.407.1	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.485.1. Concrete floors that do not require additional coverings are used. One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used. Foundation and landscape drains with discharge to an approved on-site location is installed. Roof gutto and downspout system is installed to route water at least 5 feet away from the foundation or connect to landscape drains with approved on-site discharge. Flashing details complying with accepted industry standards or manufacturer's instructions are	CG-4 CG-4 CG-4 CG-4 CG-4	NOTE 30 NOTE 31 NOTE 32 NOTE 34 NOTE 35			
Comply with at least two Tier 1 elective measures - Cross out the rows not applicable	43 44 45 46 47 48	A4.404.2 A4.404.3 A4.404.4 A4.405.1 A4.405.2 A4.405.4 A4.407.1	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for or site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.485.1. Concrete floors that do not require additional coverings are used. One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used. Foundation and landscape drains with discharge to an approved on-site location is installed. Roof gutto and downspout system is installed to route water at least 5 feet away from the foundation or connect to landscape drains with approved on-site discharge. Flashing details complying with accepted industry standards or manufacturer's instructions are provided on the plans. Building materials delivered to the construction site are protected from	CG-4 CG-4 CG-4 CG-4 CG-4	NOTE 30 NOTE 31 NOTE 32 NOTE 34 NOTE 35			
iler i elective measures - Cross out the rows not	43 44 45 46 47 48 49	A4.404.2 A4.404.3 A4.404.4 A4.405.1 A4.405.2 A4.405.4 A4.407.1 A4.407.3	Building dimensions and layouts are designed to minimize waste by one or more of the listed measures in at least 80% of the structure. Premanufactured building system, as listed, is used to eliminate solid sawn lumber Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed systems. Prefinished building materials are utilized which do not require additional painting or staining. Acceptable material list is per CALGreen A4.485.1. Concrete floors that do not require additional coverings are used. One or more of the listed materials from rapidly renewable sources or agricultural byproducts are used. Foundation and landscape drains with discharge to an approved on-site location is installed. Roof guttor and downspout system is installed to route water at least 5 feet away from the foundation or connect to landscape drains with approved on-site discharge. Flashing details complying with accepted industry standards or manufacturer's instructions are provided on the plans. Building materials delivered to the	CG-4 CG-4 CG-4 CG-4 CG-4 CG-4	NOTE 29 NOTE 30 NOTE 31 NOTE 32 NOTE 34 NOTE 35 NOTE 36			

		CALGreen	1		K Review Data		
		CODE		REFERENCE	Note or Detail		Installer or Designer
ITE	M #	SECTION	REQUIREMENT	SHEET	No.	Date	Signature
		1	Any installed gas fireplace is a direct-	NDATORY RE	QUIREMENTS		l
5	54	4.503.1	vent sealed-combustion type. Any installed woodstove or pellet stove comply with US EPA Phase II emission limits where applicable.	CG-3	Note 13		
		4.504.1	Duct openings and other related air distribution component openings are covered during construction until final startup of the HVAC equipment.	CG-3	Note 14		
		4.504.2.1	Adhesives, sealants and caulks are compliant with VOC and other toxic compound limits.	CG-2 CG-2	Table 4.504.1 Table 4.504.2 Note 15		
		4.504.2.2	Architectural paints and coatings are compliant with VOC limits.	CG-2	Table 4.504.3 Note 16		
5	58	4.504.2.3	Aerosol paints and coatings are compliant with product weighted MIR limits for ROC and other toxic compounds.	CG-3	Note 17		
5	59	4.504.2.4	Documentation are provided to the County of Santa Clara to verify that compliant VOC limit finish materials have been used.	CG-3	Note 18		
6	50	4.504.3	Carpet and carpet systems meet the applicable testing and product requirements.	CG-2 CG-3	Table 4.504.1 Note 19		
			Hardwood plywood, particleboard and	CG-1	Table 4.504.5		
6	51	4.504.5	medium density fiberboard composite wood meet formaldehyde limits.	CG-3	Note 21		
6	52	4.504.5.1	Documentation is provided to the County of Santa Clara to verify composite wood meets applicable formaldehyde limits.	CG-3	Note 22		
6	53	4.505.2	Vapor retarder and capillary break is installed at slab-on-grade foundations.	CG-3	Note 23		
6	54	4.505.3	Moisture content of building materials used in wall and floor framing do not exceed 19% prior to enclosure and is checked before enclosure. Insulation products are dry prior to enclosure.	CG-3	Note 24		
6	55	4.506.1	Each bathroom is mechanically ventilated and comply with applicable requirements.	CG-3	Note 25		
6	56	4.507.2	Heating and air-conditioning systems are sized, designed, and equipment is selected by using one of the methods listed.	CG-3	Note 26		
			ENVIROMENTAL QUALITY: TIER 1	MANDATORY	REQUIREMENT	S	
6	57	A4.504.2	At least 90% of resilient flooring complies with applicable VOC limits.	CG-4	Note 43		
6	58	A4.504.3	Thermal insulation in the building is installed in compliance with applicable standards.	CG-4	Note 44		
			ENVIROMENTAL QUALITY: TIER 1	ELECTIVE F	REQUIREMENTS		
one ller - Cross plicable	69	A4.504.1	Composite wood products made with NAF or ULEF resins are used.	CG-4	Note 42		
ieast one sures - Ci ot applica	70	A4.506.2	Filters at MERV 8 or higher are used on return air openings, during construction.	CG-4	Note 45		
Comply with at least one lie 1 elective measures - Cross out the rows not applicable	71	A4.506.3	Direct vent heating and cooling equipment are utilized where the equipment will be located in the conditioned space or the space heating and water heating equipment is installed in an isolated mechanical	CG- 4	Note 46		
٠. د		INSTALLE	room. R AND SPECIAL INSPECTOR QUALIFI	CATIONS: M	ANDATODY DEC	HITDEM	FNTS
		INSTALLE	HVAC system installers are trained and		IANDATORT REC	OIKLM	LINIS
7	72	702.1	certified in the proper installation of HVAC systems.	CG-3	Note 27		
7	73	702.2	If required by County of Santa Clara, owner or owner's agent shall employ special inspector who are qualified and able to demonstrate competence in the discipline they are inspecting.	CG-3	Note 28		
7	74	703.1	Documentation used to show compliance with this code may include construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to County of Santa Clara which show substantial conformance.	CG-3	Note 29		

Plan Check Review Data

Verification

Maximum Formaldehyde Emissions in Parts per Million			
PRODUCT	CURRENT LIMIT		
Hardwood plywood veneer core	0.05		
Hardwood plywood composite core	0.05		
Particleboard	0.09		
Medium density fiberboard	0.11		
Thin medium density fiberboard ²	0.13		

^{1.} Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E1333. For additional information, see California Code of Regulations, Title 17, Sections 93120 through 93120.12. 2. Thin medium density fiberboard has a maximum thickness of ⁵/₁₆ inch (8 mm).

TABLE A4.106.10 MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS^{1,2}

MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS.						
ALLOWABLE RATING	LIGHTING ZONE 1	LIGHTING ZONE 2	LIGHTING ZONE 3	LIGHTING ZONE 4		
Maximum Allowable Backlight Rating ³						
Luminaire greater than 2 mounting heights (MH) from property line	No Limit	No Limit	No Limit	No Limit		
Luminaire back hemisphere is 1 – 2 MH from property line	B2	В3	B4	B4		
Luminaire back hemisphere is 0.5 – 1 MH from property line	B1	B2	В3	В3		
Luminaire back hemisphere is less than 0.5 MH from property line	В0	В0	B1	B2		
Maximum Allowable Uplight Rating						
For area lighting ⁴	U0	U0	U0	U0		
For all other outdoor lighting, including decorative luminaires	U1	U2	U3	U4		
Maximum Allowable Glare Rating ⁵						
Luminaire greater than 2 MH from property line	G1	G2	G3	G4		
Luminaire front hemisphere is 1 – 2 MH from property line	G0	G1	G1	G2		
Luminaire front hemisphere is 0.5 – 1 MH from property line	G0	G0	G1	G1		
Luminaire back hemisphere is less than 0.5 MH from property line	G0	G0	G0	G1		

^{1.} IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.

CALGreen One or Two Family Residential Project Mandatory and Tier1 Requirements County of Santa Clara

^{2.} For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

^{3.} If the nearest property line is less than or equal to two mounting heights from the back hemisphere of the luminaire distribution, the applicable reduced Backlight rating shall be met. 4. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas

shall meet U-value limits for "all other outdoor lighting." 5. If the nearest property line is less than or equal to two mounting heights from the front hemisphere of the luminaire distribution, the applicable reduced Glare

ARCHITECTURAL APPLICATIONS	VOC LIMIT	Less Water and Les
Indoor carpet adhesives	50	COATING CATEGORY
Carpet pad adhesives	50	Flat coatings
Outdoor carpet adhesives	150	Nonflat coatings
Wood flooring adhesive	100	Nonflat-high gloss coatings
Rubber floor adhesives	60	SPECIALTY COATINGS
Subfloor adhesives	50	Aluminum roof coatings
Ceramic tile adhesives	65	Basement specialty coatings
VCT and asphalt tile adhesives	50	Bituminous roof coatings
Drywall and panel adhesives	50	Bituminous roof primers
Cove base adhesives	50	Bond breakers
Multipurpose construction adhesives	70	Concrete curing compounds
Structural glazing adhesives	100	Concrete/masonry sealers
Single-ply roof membrane adhesives	250	Driveway sealers
Other adhesives not specifically listed	50	Dry fog coatings
SPECIALTY APPLICATIONS		Faux finishing coatings
PVC welding	510	Fire resistive coatings
CPVC welding	490	Floor coatings
ABS welding	325	Form-release compounds
Plastic cement welding	250	Graphic arts coatings (sign paint
Adhesive primer for plastic	550	High temperature coatings
Contact adhesive	80	Industrial maintenance coatings
Special purpose contact adhesive	250	Low solids coatings ¹
Structural wood member adhesive	140	Magnesite cement coatings
Top and trim adhesive	250	Mastic texture coatings
SUBSTRATE SPECIFIC APPLICATIONS		Metallic pigmented coatings
Metal to metal	30	Multicolor coatings
Plastic foams	50	Pretreatment wash primers
Porous material (except wood)	50	Primers, sealers, and undercoate
Wood	30	Reactive penetrating sealers
Fiberglass	80	Recycled coatings
1. If an adhesive is used to bond dissimilar substra	tes together, the adhesive	Roof coatings
with the highest VOC content shall be allowed.	<i>S</i> ,	Rust preventative coatings
 For additional information regarding methods to specified in this table, see South Coast Air Quality 1168. 	measure the VOC content Management District Rule	Shellacs Clear Opaque
TABLE 4.504.2 SEALANT VOC LIMIT Less Water and Less Exempt Compound:	s in Grams per Liter	Specialty primers, sealers and u Stains
and the second s		C41: 14-

Marine deck Nonmembrane roof Single-ply roof membrane SEALANT PRIMERS Architectural Nonporous Porous Modified bituminous

Marine deck

TABLE 4.504.3 CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{2, 3} Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

VOC LIMIT

400

420

450

420

550

primers, sealers and undercoaters

1. Grams of VOC per liter of coating, including water and including exempt

2. The specified limits remain in effect unless revised limits are listed in

3. Values in this table are derived from those specified by the California Air

Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

B C D E F G H

Construction Waste Management (CWM) Plan Eill out the form including diversion rate and facility n

Fill out the form including diversion rate an	d facility names	and addresses	
Project Name: Le Residence Job #:	Legend:	TI 1' C	
Project Manager: TBD Waste Hauling Company: TBD		Hauling Company Sorting Facility Name Disposal Service Comp	
Contact Name: TBD		To be determined and provided by	Proj

All Subcontractors shall comply with the project's Construction Waste Management Plan. All Subcontractor foremen shall sign the CWM Plan Acknowledgment Sheet. General Contractor Subcontractors who fail to comply with the Waste Management Plan will be subject to backcharges or withholding of payment, as deemed appropriate. For instance, Subcontractors who contaminate debris boxes that have been designated for a single material type will be subject to

backcharge or withheld payment, as deemed appropriate. 1. The project's overall rate of waste diversion will be 65 %.

This project shall generate the least amount of waste possible by planning and ordering carefully, following all proper storage and handling procedures to reduce broken and damaged materials and reusing materials whenever possible. The majority of the waste that is generated on this jobsite will be diverted from the landfill and recycled for other use. Spreadsheet 1, enclosed, identifies the waste materials that will be generated on this project, the diversion strategy for each waste type and the anticipated diversion rate.

Waste prevention and recycling activities will be discussed at the beginning of weekly subcontractor meetings. As each new subcontractor comes on-site, the WMP Coordinator will present him/her with a copy of the CWM Plan and provide a tour of the jobsite to identify materials to be salvaged and the procedures for handling jobsite debris. All Subcontractor foremen will acknowledge in writing that they have read and will abide by the CWM Plan. Subcontractor Acknowledgment Sheet enclosed. The CWM Plan will be

Salvage: Excess materials that cannot be used in the project, nor returned to the vendor, will be offered to site workers, the owner, or donated to charity if feasible.

General Contractor will provide a commingled drop box at the jobsite for most of the construction waste. These commingled drop boxes will be taken to 1333 Old Oakland Rd, San Jose The average diversion rate for commingled waste will be _____%. As site conditions permit, additional drop boxes will be used for particular phases of construction (e.g., concrete and wood waste) to ensure the highest waste diversion rate possible. 7. In the event that the waste diversion rate achievable via the strategy described in (6) above, is projected to be lower than what is

required, then a strategy of source-separated waste diversion and/or waste stream reduction will be implemented. Source separated waste refers to jobsite waste that is not commingled but is instead allocated to a debris box designated for a single material type, such as clean wood or metal.

1. Waste stream reduction refers to efforts taken by the builder to reduce the amount of waste generated by the project to below four (4) pounds per square foot of building area. 2. When using waste stream reduction measures, the gross weight of the product is subtracted from a base weight of four (4) pounds per square foot of building area. This reduction is considered additional diversion and can be used in the waste reduc-

. General Contractor will track and calculate the quantity (in tons) of all waste leaving the project and calculate the waste diversion rate for the project. General Contractor will provide Project Manager with an updated monthly report on gross weight hauled and the waste diversion rate being achieved on the project. General Contractor monthly report will track separately the gross weights and diversion rates for commingled debris and for each source-separated waste stream leaving the project. In the event that waste hauler does not service any or all of the debris boxes on the project, the General Contractor will work with the responsible parties to track the material type and weight (in tons) in such debris boxes in order to determine waste diversion

9. In the event that Subcontractors furnish their own debris boxes as part of their scope of work, such Subcontractors shall not be excluded from complying with the CWM Plan and will provide **General Contractor** weight and waste diversion data for their

10. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste the project Superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. These collection points are not to be contaminated with non-designated waste types.

11. Debris from jobsite office and meeting rooms will be collected by General Contractor who will, at a minimum, recycle office paper, plastic, metal and cardboard.

Construction Waste Management (CWM) Worksheet

Project Name: Le Residence

Job Number:		To be determined	
ŢBD w	aste Hauling Compa	and provided by General Contractor	
Construction Waste Management (C	WM) Plan		
	DIVERSION N	METHOD:	
WASTE MATERIAL TYPE	COMMINGLED AND SORTED OFF SITE	SOURCE SEPARATED ON SITE	PROJECTED DIVERSION RATE
Asphalt			
Concrete			
Shotcrete			
Metals			
Wood			
Rigid insulation			
Fiberglass insulation			
Acoustic ceiling tile			
Gypsum drywall			
Carpet/carpet pad			
Plastic pipe			
Plastic buckets			
Plastic			
Hardiplank siding and boards			
Glass			
Cardboard			
Pallets			
Job office trash, paper, glass & plastic bottles, cans, plastic			
Alkaline and rechargeable batteries, toner cartridges, and electronic devices			
Other:			

Construction Waste Management (CWM) Acknowledgment

Note: This sample form may be used to assist in documenting compliance with the waste management plan

	To be determi	
	and provided General Contr	oy actor
)		
ntractor that comes on site is to receive a co	py of the Construction Waste N	Ianagement Plan a
	nis plan and agree to follow the pr	ocedures described i
SUBCONTRACTOR COMPANY NAME	FOREMAN NAME	SIGNATURE
	ntractor that comes on site is to receive a coorm.	and provided I General Control Intractor that comes on site is to receive a copy of the Construction Waste Norm. Plan for the project; I understand the goals of this plan and agree to follow the project.

Table 1 - Recycled Content Value Calculations

Swimming pool coatings

Traffic marking coatings

Tub and tile refinish coatings

Vaterproofing membranes

Wood coatings

Wood preservatives

Zinc-rich primers

Material/Assembly *	Manufacturer	Recycled Content Information Source	Material/ Assembly Cost (\$)	Post- Consumer Recycled	Pre- Consumer Recycled	Recycled Content	Recycled
Material/Assembly *	Manufacturer	Information	Assembly	Recycled		· ·	=
Material/Assembly *	Manufacturer				Recycled	Content	
Material/Assembly *	Manufacturer	Source	Cost (\$)				Content
				Content (%)	Content (%)	(%)	Value (\$)
				Total Recy	cled Conten	t Value (\$):	
For calculating the total ma	terial cost, choose ONL	ONE of the three of	ptions below:				
1.Size of project (sf):		Cost per sf:		x 45% = 1	Total Mater	ial Cost (\$):	
2.Estimated project cost	/valuation (\$):			x 45% = 1	Total Mater	ial Cost (\$):	
3.Sum of estimated and	or actual cost of ma	terials used in the	project	= '	Total Mater	ial Cost (\$):	
	Total Recyc	led Content Va	lue as a per	centage of t	he Total Ma	terial Cost:	
* Materials used as compone	ents of the structural fra	me shall not be used	d to calculate re	cvcled content	The structural t	rame includes t	he load bearing
structural elements, such as				-			

he sum of post-consumer and pre-consumer recycled contents of each material cannot exceed 100%.

Table 2 - Assembly Product Recycled Content Calculations *

Α	В	С	D	E	F	G	Н	
			Post-	Post-	Pre-	Pre-	Proportional	Proportio
			Consumer	Consumer	Consumer	Consumer	Post-	Pre-
	Material	Material	Recycled	Recycled	Recycled	Recycled	Consumer	Consume
Assembly Product**	Weight (lb)	Weight (%)	Content(lb)	Content (%)	Content(lb)	Content (%)	Content (%)	Content (
Total Weight:								
			Asser	mbly Post-Co	nsumer Recyc	cled Content:		
				Ass	embly Pre-Co	nsumer Recy	cled Content:	
Use one sheet per asser	mbly product.							
* Materials used as comp earing structural elemen	onents of the						ıral frame includ	es the load
The sum of post-consume							1.4000/	

RECYCLED CONTENT - DECLARATION STATEMENT

Project Name:	Le Residence
Project Location:	Bella Maderia Lane, San Jose CA
Project Manager:	
Proiect Owner:	Mr. James Le

The following section shall be completed by a person with overall responsibility for the planning and design portion of the project.

DECLARATION STATEMENT:

- I certify under penalty of perjury, under the laws of the State of California, the information provided is true and correct.
- I certify that the materials, components, assembly products or manufactured devices identified on this certificate conform to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcing

Responsible Person's Signature:	
Position/Title:	
Attachments:	
	Position/Title:

Table 2 Posseled Content Conversion Table (Pounds to 9/) *

Α	В	С	D	E	F
	1	Post-	Post-	ĺ	
		Consumer	Consumer	Pre- Consumer	Pre- Consume
	Material	Recycled	Recycled	Recycled	Recycled
Type of Material	Weight (lb)	Content(lb)	Content (%)	Content(lb)	Content (%)

Step 1 - Insert the type of material into Column A.

Step 2 - Insert the weight of material (provided by the manufacturer or other source) into Column B.

Step 3 - Insert the weight of Post-Consumer Recycled Content (provided by the manufacturer or other source) into Column C.

Step 4 - Insert the weight of Pre-Consumer Recycled Content (provided by the manufacturer or other source) into Column E.

Step 5 - Divide the values in Column C by the values in Column B; insert the Post-Consumer Recycled Content of each material in percentages into Column D.

Step 6 - Divide the values in Column E by the values in Column B; insert the Pre-Consumer Recycled Content of each material

Step 7 - Transfer the percentages of Post-Consumer and Pre-Consumer Recycled Content from Column D and Column F to Table 1, Columns E and F.

CALGREEN 2019 NOTES - MANDATORY REQUIREMENTS:

1. PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. SEE CALGREEN 4.106.2 FOR FURTHER DETAILS.

2. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS, AND OTHER MEASURES CAN BE USED. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

3. NEW CONSTRUCTION SHALL COMPLY WITH CALGREEN SECTION 4.106.4.1 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.

EXCEPTIONS:

- A. WHERE COUNTY OF SANTA CLARA HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE.
- B. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

4. FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVER CURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

5. ALL NONCOMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY BUILDING AND INSPECTION DIVISION. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

- A. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- B. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- C. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWER-HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
- D. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- E. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

6. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

7. RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.

8. NEWLY CONSTRUCTED RESIDENTIAL DEVELOPMENTS, WHERE DISINFECTED TERTIARY RECYCLED WATER IS AVAILABLE FROM A MUNICIPAL SOURCE TO A CONSTRUCTION SITE, MAY BE REQUIRED TO HAVE RECYCLED WATER SUPPLY SYSTEMS INSTALLED, ALLOWING THE USE OF RECYCLED WATER FOR RESIDENTIAL LANDSCAPE IRRIGATION SYSTEMS. SEE CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE.

9. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

10. RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CALGREEN SECTION 4.408.2 OR 4.408.3.

- A. A CONSTRUCTION WASTE MANAGEMENT PLAN IS PROVIDED. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE COUNTY OF SANTA CLARA
- 1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR SALVAGE FOR FUTURE USE OR SALE.
- 2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE
- SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM).

 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION WASTE MATERIAL WILL BE TAKEN.
- 4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- 5. Specify that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.
- B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY OF SANTA CLARA. SEE CALGREEN 4.408.3 FOR FURTHER .DETAILS

11. DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH NOTE 10.

12. AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE COUNTY OF SANTA CLARA INCLUDES ALL OF THE REQUIRED INFORMATION, SHALL BE PLACED IN THE BUILDING. SEE CALGREEN 4.410.1 FOR DETAILS OF REQUIRED INFORMATION.

13. ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE SANTA CLARA COUNTY ORDINANCES AND BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 6, RULE 3.

14. AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

15. ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF CALGREEN TABLES 4.504.1 OR 4.504.2 AS REPRODUCED ON SHEET CG-1. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED BELOW.

AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

16. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS AS SHOWN IN TABLE 4.504.3 SHEET CG-1. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NONFLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3, SHEET CG-1 SHALL APPLY.

17. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

18. VERIFICATION OF COMPLIANCE WITH NOTES 15, 16, AND 17 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

19. ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

- A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM
- B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.)
- C. NSF/ANSI 140 AT THE GOLD LEVEL.
- D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1, SHEET CG-1.

20. WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

- A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
- B. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM).
- C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.
- D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

21. HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 4.504.5 SHEET CG-1

22. VERIFICATION OF COMPLIANCE WITH NOTE 21 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

23. CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY CBC, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY CRC CHAPTER 5, SHALL COMPLY WITH FOLLOWING REQUIREMENT:

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
- B. A SLAB DESIGN SPECIFIED BY THE LICENSED DESIGN PROFESSIONAL.

24. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

25. EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- B. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
- 1. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF ≤ 50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT
- 2. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL.

26. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

- A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J—2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- B. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D—2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S—2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

27. HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS.

28. IF REQUIRED BY THE COUNTY OF SANTA CLARA, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE COUNTY OF SANTA CLARA FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

29. DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST.

NEW RESIDENCE ON
BELLA MADERIA LANE

Project Information



1. SITE WHICH COMPLIES WITH AT LEAST ONE OF THE FOLLOWING CHARACTERISTICS SHALL BE SELECTED:

- A. AN INFILL SITE.
- B. A GREYFIELD SITE.
- C. AN EPA-RECOGNIZED AND REMEDIATED BROWNFIELD SITE.

2. FACILITATE COMMUNITY CONNECTIVITY BY ONE OF THE FOLLOWING METHODS:

- A. LOCATE PROJECT WITHIN A ¼ MILE TRUE WALKING DISTANCE OF AT LEAST FOUR BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
- B. LOCATE PROJECT WITHIN A ½ MILE TRUE WALKING DISTANCE OF AT LEAST SEVEN BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
- C. OTHER METHODS INCREASING ACCESS TO ADDITIONAL RESOURCES.

EXAMPLES OF SERVICES INCLUDE, BUT ARE NOT LIMITED TO, BANK, PLACE OF WORSHIP, CONVENIENCE GROCERY, DAY CARE, CLEANERS, FIRE STATION, BARBER SHOP, BEAUTY SHOP, HARDWARE STORE, LAUNDRY, LIBRARY, MEDICAL CLINIC, DENTAL CLINIC, SENIOR CARE FACILITY, PARK, PHARMACY, POST OFFICE, RESTAURANT, SCHOOL, SUPERMARKET, THEATER, COMMUNITY CENTER, FITNESS CENTER, MUSEUM OR FARMERS MARKET.

3. INDIVIDUALS WITH OVERSIGHT AUTHORITY ON THE PROJECT WHO HAVE BEEN TRAINED IN AREAS RELATED TO ENVIRONMENTALLY FRIENDLY DEVELOPMENT SHALL TEACH GREEN CONCEPTS TO OTHER MEMBERS OF THE DEVELOPMENT STAFF AND ENSURE THAT TRAINING IS PROVIDED TO ALL PARTIES ASSOCIATED WITH THE DEVELOPMENT OF THE PROJECT.

PRIOR TO BEGINNING THE CONSTRUCTION ACTIVITIES, ALL PARTIES INVOLVED WITH THE DEVELOPMENT PROCESS SHALL RECEIVE A WRITTEN GUIDELINE AND INSTRUCTION SPECIFYING THE GREEN GOALS OF THE PROJECT.

4. THE SALVAGED MATERIALS FROM DECONSTRUCTION OF EXISTING BUILDINGS ON THE SITE SHALL BE REUSED. REUSED MATERIALS OR PRODUCTS MUST COMPLY WITH CURRENT BUILDING STANDARDS REQUIREMENTS OR BE AN ACCEPTED ALTERNATE METHOD OR MATERIAL.

MATERIALS WHICH CAN BE EASILY REUSED INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- A. LIGHT FIXTURES.
- B. PLUMBING FIXTURES.
- C. DOORS AND TRIM. D. MASONRY
- E. ELECTRICAL DEVICES.
- F. APPLIANCES.
- G. FOUNDATIONS OR PORTIONS OF FOUNDATIONS.

REUSED MATERIAL MUST BE IN COMPLIANCE WITH THE APPROPRIATE TITLE 24 REQUIREMENTS.

5. BUILDING SITE SOIL ANALYSIS SHALL BE PERFORMED BY A LICENSED DESIGN PROFESSIONAL AND THE FINDINGS SHALL BE UTILIZED IN THE STRUCTURAL DESIGN OF THE BUILDING.

6. THE EFFECT OF DEVELOPMENT ON BUILDING SITES SHALL BE EVALUATED AND THE SOIL SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:

- A. NATURAL DRAINAGE PATTERNS SHALL BE EVALUATED AND EROSION CONTROLS SHALL BE IMPLEMENTED TO MINIMIZE EROSION DURING CONSTRUCTION AND AFTER OCCUPANCY
- B. SITE ACCESS SHALL BE ACCOMPLISHED BY MINIMIZING THE AMOUNT OF CUT AND FILL NEEDED TO INSTALL ACCESS ROADS AND DRIVEWAYS.
- C. AS ALLOWED BY OTHER PARTS OF THE CALIFORNIA BUILDING STANDARDS CODE, UNDERGROUND CONSTRUCTION ACTIVITIES SHALL BE COORDINATED TO UTILIZE THE SAME TRENCH, MINIMIZE THE AMOUNT OF TIME THE DISTURBED SOIL IS EXPOSED AND THE SOIL SHALL BE REPLACED USING ACCEPTED COMPACTION METHODS.

7. TOPSOIL SHALL BE PROTECTED OR SAVED FOR REUSE, DISPLACED TOPSOIL SHALL BE STOCKPILED FOR REUSE IN A DESIGNATED AREA AND COVERED OR PROTECTED FROM EROSION. PROTECTION FROM EROSION INCLUDES COVERING WITH TARPS, STRAW, MULCH, CHIPPED WOOD, VEGETATIVE COVER, OR OTHER MEANS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO PROTECT THE TOPSOIL FOR LATER USE.

8. POSTCONSTRUCTION LANDSCAPE DESIGNS SHALL ACCOMPLISH ONE OR MORE OF THE FOLLOWING:

- A. AREAS DISRUPTED DURING CONSTRUCTION SHALL BE RESTORED TO BE CONSISTENT WITH NATIVE VEGETATION SPECIES AND PATTERNS.
- B. UTILIZE AT LEAST 75 PERCENT NATIVE CALIFORNIA OR DROUGHT TOLERANT PLANT AND TREE SPECIES APPROPRIATE FOR THE CLIMATE ZONE REGION

9. PERMEABLE PAVING SHALL BE UTILIZED FOR NOT LESS THAN 20 PERCENT OF THE TOTAL PARKING, WALKING OR PATIO SURFACES

THE PRIMARY DRIVEWAY, PRIMARY ENTRY WALKWAY AND ENTRY PORCH OR LANDING SHALL NOT BE INCLUDED WHEN CALCULATING THE AREA REQUIRED TO BE A PERMEABLE SURFACE.

10. INSTALL A VEGETATED ROOF FOR AT LEAST 50 PERCENT OF THE ROOF AREA. VEGETATED ROOFS SHALL COMPLY WITH REQUIREMENTS FOR ROOF GARDENS AND LANDSCAPED ROOFS IN THE CALIFORNIA BUILDING CODE, CHAPTER 15 AND CHAPTER

11. REDUCE NONROOF HEAT ISLANDS FOR 50 PERCENT OF SIDEWALKS, PATIOS, DRIVEWAYS OR OTHER PAVED AREAS BY USING ONE OR MORE OF THE METHODS LISTED.

A. TREES OR OTHER PLANTINGS TO PROVIDE SHADE AND THAT MATURE WITHIN 15 YEARS OF PLANTING. TREES SHOULD BE NATIVE OR ADAPTIVE TO THE REGION AND CLIMATE ZONES AND NONINVASIVE; HARDY AND RESISTANT TO DROUGHT, INSECTS AND DISEASE; EASY TO MAINTAIN (NO FREQUENT SHEDDING OF TWIGS, BRANCHES, UNWANTED FRUIT OR SEED PODS); AND SUITABLE IN MATURE SIZE

AND ENVIRONMENTAL REQUIREMENTS FOR THE SITE. TREE SELECTION AND PLACEMENT SHOULD CONSIDER LOCATION AND SIZE OF AREAS TO BE SHADED, LOCATION OF UTILITIES, VIEWS FROM THE STRUCTURE, DISTANCE TO SIDEWALKS AND FOUNDATIONS, OVERHANGS ONTO ADJACENT PROPERTIES AND STREETS; OTHER INFRASTRUCTURE AND ADJACENT TO LANDSCAPING. IN ADDITION, SHADING SHALL NOT CAST A SHADOW, AS SPECIFIED, ON ANY NEIGHBORING SOLAR COLLECTORS PURSUANT TO PUBLIC RESOURCES CODE SECTION 25981, ET SEQ. (SOLAR SHADE CONTROL ACT).

- B. USE HIGH ALBEDO MATERIALS WITH AN INITIAL SOLAR REFLECTANCE VALUE OF AT LEAST 0.30 AS DETERMINED IN ACCORDANCE ASTM E1918 OR C1549.
- C. USE OPEN GRID PAVEMENT SYSTEM OR PERVIOUS OR PERMEABLE PAVEMENT SYSTEM.
- D. LOCATE 50 PERCENT OF PARKING UNDERGROUND OR USE MULTILEVEL PARKING.
- E. OTHER METHODS OF REDUCING HEAT ISLAND EFFECTS ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

12. FOR EACH DWELLING UNIT, INSTALL A DEDICATED 208/240-VOLT BRANCH CIRCUIT IN THE RACEWAY REQUIRED BY CALGREEN SECTION 4.106.4.1 (SEE SHEET GB-2 NOTE 4). THE BRANCH CIRCUIT AND ASSOCIATED OVERCURRENT PROTECTIVE DEVICE SHALL BE RATED AT 40 AMPERES MINIMUM. OTHER ELECTRICAL COM-PONENTS, INCLUDING A RECEPTACLE OR BLANK COVER, RELATED TO THIS SECTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE DESIGNATED FOR FUTURE EV CHARGING PURPOSES AS "EV READY" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. THE RECEPTACLE OR BLANK COVER SHALL BE IDENTIFIED AS "EV READY."

13. OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE FOLLOWING:

- A. THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE CODE; AND
- B. BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS AS DEFINED IN IES TM-15-11;
- C. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN CALGREEN TABLE A4.106.10

- 1. LUMINAIRES THAT QUALIFY AS EXCEPTIONS IN THE CALIFORNIA ENERGY CODE.
- EMERGENCY LIGHTING.
- 3. ONE- AND TWO-FAMILY DWELLINGS.

14. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.5 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.5 GAL-LONS PER MINUTE AT 60 PSI. WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

15. ALTERNATE NONPOTABLE WATER SOURCES SHALL BE USED FOR INDOOR POTABLE WATER REDUCTION. ALTERNATE NONPOTABLE WATER SOURCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING Code.

16. INSTALL AT LEAST ONE QUALIFIED ENERGY STAR DISHWASHER OR CLOTHES

17. NONWATER URINALS OR COMPOSTING TOILETS SHALL BE INSTALLED. WHERE APPROVED, HYBRID URINALS, AS DEFINED IN CALGREEN CHAPTER 2, SHALL BE CONSIDERED NONWATER URINALS.

18. ONE- AND TWO-FAMILY DWELLINGS SHALL BE EQUIPPED WITH A DEMAND HOT WATER RECIRCULATION SYSTEM, AS DEFINED IN CALGREEN CHAPTER 2. THE DEMAND HOT WATER RECIRCULATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, CALIFORNIA ENERGY CODE, AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

19. AN APPROVED RAINWATER CATCHMENT SYSTEM SHALL BE DESIGNED AND INSTALLED TO USE RAINWATER GENERATED BY AT LEAST 65 PERCENT OF THE AVAILABLE ROOF AREA. RAINWATER CATCHMENT SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

20. WHEN LANDSCAPING IS PROVIDED AND AS ALLOWED BY LOCAL ORDINANCE, A WATER EFFICIENT LANDSCAPE IRRIGATION DESIGN THAT ELIMINATES THE USE OF POTABLE WATER BEYOND THE INITIAL REQUIREMENTS FOR PLANT INSTALLATION AND ESTABLISHMENT SHALL BE PROVIDED. METHODS USED TO ACCOM-PLISH THE REQUIREMENTS OF THIS SECTION SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING STANDARDS CODE AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- A. USE OF CAPTURED RAINWATER.
- B. USE OF RECYCLED WATER.
- C. WATER TREATED FOR IRRIGATION PURPOSES AND CONVEYED BY A WATER
- DISTRICT OR PUBLIC ENTITY. D. USE OF GRAYWATER.
- E. USE OF DROUGHT TOLERANT PLANTS.

21. FOR NEW WATER SERVICE CONNECTIONS, LANDSCAPED IRRIGATED AREAS LESS THAN 5,000 SQUARE FEET SHALL BE PROVIDED WITH SEPARATE SUBMETERS OR METERING DEVICES FOR OUTDOOR POTABLE WATER USE.

22. ALTERNATIVE PLUMBING PIPING SHALL BE INSTALLED TO PERMIT THE DISCHARGE FROM THE CLOTHES WASHER OR OTHER FIXTURES TO BE USED FOR AN IRRIGATION SYSTEM IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE.

23. BASED ON PROJECTED AVAILABILITY, DUAL WATER PIPING SHALL BE INSTALLED FOR FUTURE USE OF RECYCLED WATER AT THE FOLLOWING LOCATIONS:

- A. INTERIOR PIPING FOR THE USE OF RECYCLED WATER SHALL BE INSTALLED TO SERVE ALL WATER CLOSETS, URINALS AND FLOOR DRAINS.
- B. EXTERIOR PIPING IS INSTALLED TO TRANSPORT RECYCLED WATER FROM THE POINT OF CONNECTION TO THE STRUCTURE. RECYCLED WATER SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING

24. RECYCLED WATER SHALL BE USED FOR LANDSCAPE IRRIGATION.

25. AS ALLOWED BY LOCAL CONDITIONS, UTILIZE A FROST-PROTECTED SHALLOW FOUNDATION (FPSF) IN COMPLIANCE WITH THE CALIFORNIA RESIDENTIAL CODE (CRC). WHEN AN FPSF FOUNDATION SYSTEM IS INSTALLED, THE MANUAL REQUIRED BY CALGREEN SECTION 4.410.1 SHALL INCLUDE INSTRUCTIONS TO THE OWNER OR OCCUPANT REGARDING THE NECESSITY FOR HEATING THE STRUCTURE AS REQUIRED IN SECTION R403.3 OF THE CALIFORNIA RESIDENTIAL CODE.

26. AS ALLOWED BY THE COUNTY OF SANTA CLARA, CEMENT USED IN FOUNDATION MIX DESIGN SHALL BE REDUCED NOT LESS THAN 20 PERCENT. RODUCTS COMMONLY USED TO REPLACE CEMENT IN CONCRETE MIX DESIGNS INCLUDE, BUT ARE NOT LIMITED TO:

- A. FLY ASH.
- B. SLAG.
- C. SILICA FUME. D. RICE HULL ASH.

27. BEAMS, HEADERS AND TRIMMERS SHALL BE SIZED AND INSTALLED AS SPECIFIED IN CHAPTER 23 OF THE CALIFORNIA BUILDING CODE, OR CHAPTER 6 OF THE CALIFORNIA RESIDENTIAL CODE, AS APPLICABLE. OTHER CALCULATIONS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH USE THE MINIMUM SIZE MEMBER FOR THE TRIBUTARY LOAD IS ACCEPTABLE.

28. BUILDING DIMENSIONS AND LAYOUTS SHALL BE DESIGNED TO MINIMIZE WASTE BY ONE OR MORE OF THE FOLLOWING MEASURES IN AT LEAST 80 PERCENT OF THE STRUCTURE:

- A. BUILDING DESIGN DIMENSIONS IN 2-FOOT INCREMENTS ARE USED.
- B. WINDOWS AND DOORS ARE LOCATED AT REGULAR 16" OR 24" STUD POSITIONS. C. OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

29. PREMANUFACTURED BUILDING SYSTEMS SHALL BE USED TO ELIMINATE SOLID SAWN LUMBER WHENEVER POSSIBLE. ONE OR MORE OF THE FOLLOWING PREMANUFACTURED BUILDING SYSTEMS IS USED:

- A. COMPOSITE FLOOR JOIST OR PREMANUFACTURED FLOOR FRAMING SYSTEM.
- B. COMPOSITE ROOF RAFTERS OR PREMANUFACTURED ROOF FRAMING SYSTEM.
- C. PANELIZED (SIPS, ICF OR SIMILAR) FRAMING SYSTEMS.
- D. OTHER METHODS APPROVED BY THE COUNTY OF SANTA CLARA.

30. MATERIAL LISTS SHALL BE INCLUDED IN THE PLANS WHICH SPECIFY THE MATERIAL QUANTITY AND PROVIDE DIRECTION FOR ON-SITE CUTS TO BE MADE FROM THE MATERIAL PROVIDED. MATERIAL LISTS AND DIRECTION SHALL BE PROVIDED FOR THE FOLLOWING SYSTEMS:

- A. FLOOR FRAMING.
- B. WALL FRAMING.
- C. CEILING AND ROOF FRAMING.
- D. STRUCTURAL PANELS AND ROOF SHEATHING.

31. UTILIZE PREFINISHED BUILDING MATERIALS WHICH DO NOT REQUIRE ADDITIONAL PAINTING OR STAINING WHEN POSSIBLE. ONE OR MORE OF THE FOLLOWING BUILDING MATERIALS THAT DO NOT REQUIRE ADDITIONAL RESOURCES FOR FINISHING ARE USED:

- A. EXTERIOR TRIM NOT REQUIRING PAINT OR STAIN.
- B. WINDOWS NOT REQUIRING PAINT OR STAIN.
- C. SIDING OR EXTERIOR WALL COVERINGS WHICH DO NOT REQUIRE PAINT OR

32. CONCRETE FLOORS THAT DO NOT REQUIRE ADDITIONAL COVERINGS SHALL BE USED INCLUDING BUT NOT LIMITED TO STAINED, NATURAL OR STAMPED CONCRETE FLOORS.

33. USE MATERIALS, EQUIVALENT IN PERFORMANCE TO VIRGIN MATERIALS WITH A TOTAL (COMBINED) RECYCLED CONTENT VALUE (RCV) OF NOT BE LESS THAN 10 PERCENT OF THE TOTAL MATERIAL COST OF THE PROJECT.

REQUIRED TOTAL RCV (DOLLARS) = TOTAL MATERIAL COST(DOLLARS) × 10 PERCENT

FOR THE PURPOSES OF THIS SECTION, MATERIALS USED AS COMPONENTS OF THE STRUCTURAL FRAME SHALL NOT BE USED TO CALCULATE RECYCLED CONTENT. THE STRUCTURAL FRAME INCLUDES THE LOAD BEARING STRUCTURAL ELEMENTS, SUCH AS WALL STUDS, PLATES, SILLS, COLUMNS, BEAMS, GIRDERS, JOISTS, RAFTERS AND TRUSSES. SAMPLE FORMS WHICH ALLOW USER INPUT, LOCATED AT SHEET CG-4, MAY BE USED TO SIMPLIFY DOCUMENTING COMPLIANCE WITH THIS SECTION AND FOR CALCULATING RECYCLED CONTENT VALUE OF MATERIALS OR ASSEMBLY PRODUCTS.

SOURCES AND RECYCLED CONTENT OF SOME RECYCLED MATERIALS CAN BE OBTAINED FROM CALRECYCLE IF NOT PROVIDED BY THE MANUFACTURER.

FOR FURTHER INSTRUCTION SEE CALGREEN A4.405.3.

34. ONE OR MORE OF THE FOLLOWING MATERIALS MANUFACTURED FROM RAPIDLY RENEWABLE SOURCES OR AGRICULTURAL BY-PRODUCTS SHALL BE USED:

- A. INSULATION.
- B. BAMBOO OR CORK.
- C. ENGINEERED PRODUCTS
- D. AGRICULTURAL BASED PRODUCTS. E. OTHER PRODUCTS ACCEPTABLE TO THE ENFORCING AGENCY.

THE INTENT OF THIS SECTION IS TO UTILIZE BUILDING MATERIALS AND PRODUCTS

WHICH ARE TYPICALLY HARVESTED WITHIN A 10-YEAR OR SHORTER CYCLE. 35. INSTALL FOUNDATION AND LANDSCAPE DRAINS WHICH DISCHARGE TO A DRY WELL, SUMP, BIOSWALE OR OTHER APPROVED ON-SITE LOCATION.

36. INSTALL GUTTER AND DOWNSPOUT SYSTEMS TO ROUTE WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION OR CONNECT TO LANDSCAPE DRAINS WHICH DISCHARGE TO A DRY WELL, SUMP, BIOSWALE, RAINWATER CAPTURE SYSTEM OR OTHER APPROVED ON-SITE LOCATION.

37. PROVIDE FLASHING DETAILS ON THE BUILDING PLANS WHICH COMPLY WITH ACCEPTED INDUSTRY STANDARDS OR MANUFACTURER'S INSTRUCTIONS. DETAILS SHALL BE SHOWN ON HOUSE PLANS AT ALL OF THE FOLLOWING LOCATIONS:

- A. AROUND WINDOWS AND DOORS.
- B. ROOF VALLEYS.

FOLLOWING:

COUNTY OF SANTA CLARA.

- C. DECK CONNECTIONS TO THE STRUCTURE.
- D. ROOF-TO-WALL INTERSECTIONS.
- E. CHIMNEYS TO ROOF INTERSECTIONS. F. DRIP CAPS ABOVE WINDOWS AND DOORS WITH ARCHITECTURAL PROJECTIONS.

38. PROTECT BUILDING MATERIALS DELIVERED TO THE CONSTRUCTION SITE FROM RAIN AND OTHER SOURCES OF MOISTURE.

39. EXTERIOR DOORS TO THE DWELLING SHALL BE COVERED TO PREVENT WATER INTRUSION BY ONE OR MORE OF THE FOLLOWING:

- A. AN AWNING AT LEAST 4 FEET IN DEPTH IS INSTALLED.
- B. THE DOOR IS PROTECTED BY A ROOF OVERHANG AT LEAST 4 FEET IN DEPTH.
- C. THE DOOR IS RECESSED AT LEAST 4 FEET.
- D. OTHER METHODS WHICH PROVIDE EQUIVALENT PROTECTION.

PROVIDED AT ALL EXTERIOR WALLS. 41. NON-HAZARDOUS CONSTRUCTION AND DEMOLITION DEBRIS GENERATED AT THE

40. A PERMANENT OVERHANG OR AWNING AT LEAST 2 FEET IN DEPTH SHALL BE

SITE SHALL BE DIVERTED TO RECYCLE OR SALVAGE IN COMPLIANCE WITH THE

AT LEAST A 65 PERCENT REDUCTION. ANY MIXED RECYCLABLES THAT ARE SENT TO MIXED-WASTE RECYCLING FACILITIES SHALL INCLUDE A QUALIFIED THIRD PARTY VERIFIED FACILITY AVERAGE DIVERSION RATE. VERIFICATION OF DIVERSION RATES SHALL MEET MINIMUM CERTIFICATION ELIGIBILITY GUIDELINES, ACCEPTABLE TO THE

DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH THIS SECTION. DOCUMENTATION SHALL BE IN COMPLIANCE WITH CALGREEN SECTION 4.408.5.

42. USE COMPOSITE WOOD PRODUCTS MADE WITH EITHER CALIFORNIA AIR RESOURCES BOARD APPROVED NO-ADDED FORMALDEHYDE (NAF) RESINS OR ULTRA-LOW EMITTING FORMALDEHYDE (ULEF) RESINS.

DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THAT FINISH MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS.

43. AT LEAST 90 PERCENT OF THE TOTAL AREA OF RESILIENT FLOORING SYSTEMS INSTALLED IN THE BUILDING SHALL COMPLY WITH THE VOC-EMISSION LIMITS DEFINED IN AT LEAST ONE OF THE FOLLOWING:

- A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS, "VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS
- B. PRODUCTS CERTIFIED UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM.)

C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI)

FLOORSCORE PROGRAM. D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS

1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350.) DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THAT FINISH MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS IN THIS SECTION.

FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION

44. INSTALL THERMAL INSULATION IN COMPLIANCE WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE; PRODUCTS CERTIFIED UNDER THE UL GREENGUARD GOLD (FORMERLY GREENGUARD CHILDREN & SCHOOLS PROGRAM); OR MEET CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

DOCUMENTATION MUST BE PROVIDED THAT VERIFIES THE MATERIALS ARE CERTIFIED TO MEET THE POLLUTANT EMISSION LIMITS IN THIS SECTION.

45. PROVIDE FILTERS ON RETURN AIR OPENINGS RATED AT MERV 8 OR HIGHER DURING CONSTRUCTION.

46. DIRECT-VENT HEATING AND COOLING EQUIPMENT SHALL BE UTILIZED IF THE EQUIPMENT WILL BE LOCATED IN THE CONDITIONED SPACE OR INSTALL THE SPACE HEATING AND WATER HEATING EQUIPMENT IN AN ISOLATED MECHANICAL ROOM.

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