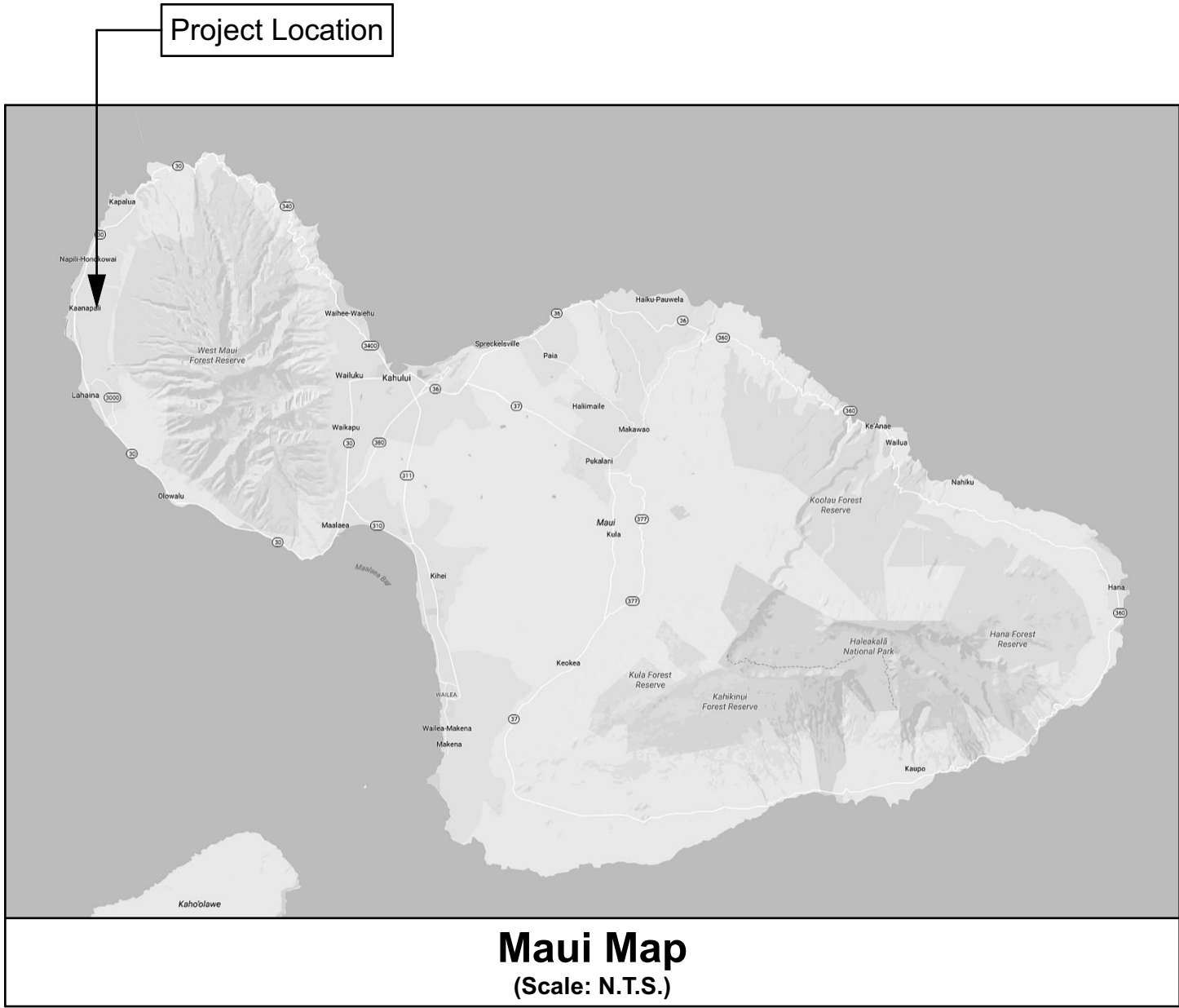


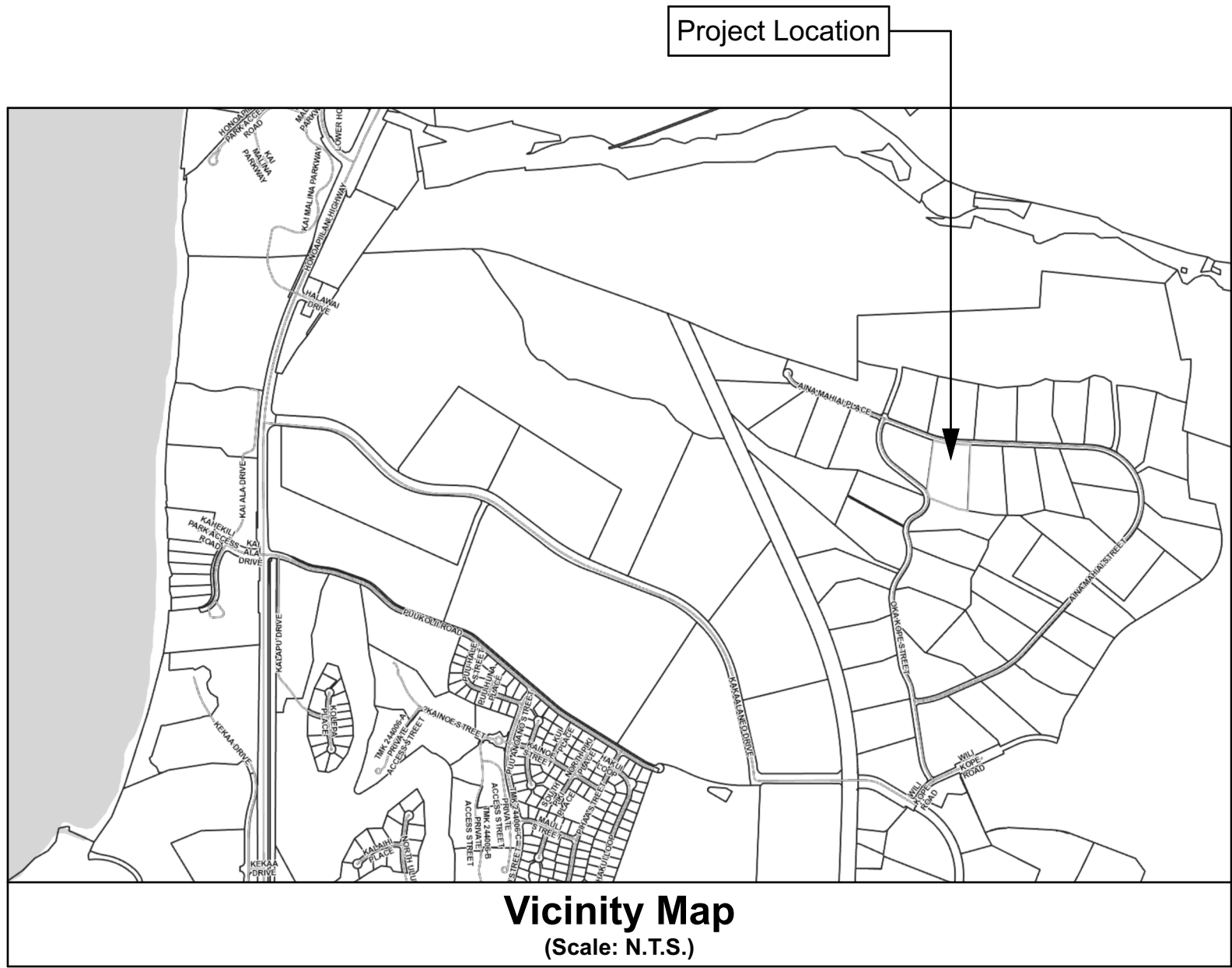
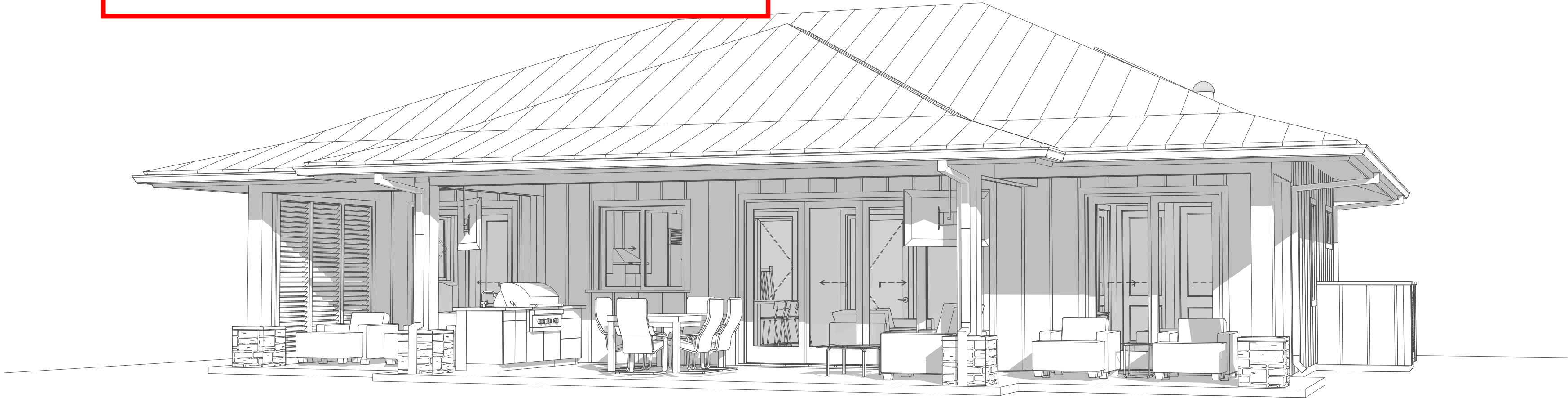
Project Data		
Tax Map Key:	TMK: (2) 4-4-020:032	
Location:	Kaanapali Coffee Farms Lot #32 Lahaina HI 96761	
Zoning:	STATE AG SMA NONE COUNTY AG	State Agricultural District Not in the Special Management Area County's Agricultural District
Flood Zone:	X	
Lot Area:	4.951 Acres	
Floor Area:	1,038 SF (Living Area)	
Stories:	1	
Construction Type:	V-B	
Occupancy Group:	R R-3	
Project Type:	New Construction	
Scope Of Construction:	Construct new second farm dwelling.	
Owner:	Calhoun, Richard and Veronica L Trust 2575 Aina Mahiai St Lahaina, HI 96761 808-303-0179	
Architect:	Kasprzycki Designs, Inc. 40 Kupuohi Street, Suite 203 Lahaina, HI 96761 (808) 667-6116	

Pursuant to Maui County Code Section 3.44.015(C), the County of Maui is not responsible for any park, roadway, easement, (including but not limited to drainage, sewer, access, reclaimed water, or avigation easement), or any other interest in real property shown on this map or shown on these plans, unless the Maui County Council has accepted its dedication by a resolution approved by a majority of Council's members at a regular or special meeting of the Maui County Council.

Should historic sites such as walls, platforms, pavements, or mounds, or remains such as artifacts, burials, concentration of shell or charcoal be encountered during construction activities, work shall cease immediately in the immediate vicinity of the find and the find shall be protected from further damage. The contractor and/or landowner shall immediately contact the State Historic Preservation Division (243-5169), which will assess the significance of the find and recommend any appropriate mitigation measure, if necessary.



1 Northwest Perspective
NOT TO SCALE



Proposed Second Farm Dwelling

Calhoun Residence

Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

A SET OF PLANS SHALL BE
AVAILABLE ON JOBSITE
DURING CONSTRUCTION

2579 AINA MAHIAI ST. LAHAINA HI 96761

Department of Public Works
County of Maui
APPROVED
Permit Number: B2024-03132
The approved plans shall not be changed,
modified or altered without authorization from
the building official.

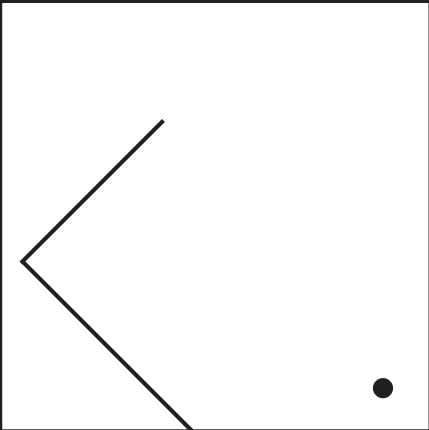
COUNTY OF MAUI MAUI COUNTY CODE, CHAPTER 16.16C ENERGY CODE RESIDENTIAL PROVISIONS	
COMPLIANCE METHOD Check applicable method	
<input checked="" type="checkbox"/>	R401.2(1) R401.3 through R404 (Prescriptive)
<input type="checkbox"/>	R401.2(2) R405, R401 through R404 labeled Mandatory (Simulated Performance Alternative)
<input type="checkbox"/>	R401.2(3) R406 (Energy Rating Index Compliance Alternative)
<input type="checkbox"/>	R401.2(4) R401.2.1 (Tropical Zone)
<input type="checkbox"/>	R102.1 (Alternative)
To the best of my knowledge, this project's design substantially conforms to the Energy Code.	
Signature: <u>Atom Kasprzycki</u>	Date: <u>10-21-2024</u>
Name: <u>Atom Kasprzycki</u>	
Title: <u>Architect</u>	
License No.: <u>AR-16158</u>	

CONSTRUCTION SHALL BE APPROVED BY AN
ARCHITECT OR STRUCTURAL ENGINEER, WHEN
REQUESTED BY THE BUILDING INSPECTOR

HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all
new single family dwellings

REQUIRED INSPECTIONS:
1. FOUNDATION
2. FRAMING
3. LATH & GYPSUM (FIRE RATED PARTITIONS)
4. FINAL

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Sht. No.	Sheet Name
T-1	Title Sheet
T-2	General Notes
T-3	Abbreviations, Symbols Key, and Fill Key
C-1	Topographic Survey Map
C-1.1	BMP Plan
C-1.2	IWS Details
C-2	IWS Site Plan
C-3	Grading and Drainage Plan
C-4	Grading and Drainage Plan
L-1	General Construction Notes & Details
L-2	Landscape Planting Plan
L-3	Landscape Irrigation Plan
L-4	Landscape Lighting Plan
A-0	Details, Notes, & Legends
A-0.1	Overall Architectural Site Plan
A-1	Enlarged Architectural Site Plan Portion
A-2	Floor Plan
A-3	Furniture Plan
A-4	Reflected Ceiling Plan
A-5	Roof Plan
A-6	Exterior Elevations
A-7	Building Sections
A-8	Wall Sections
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A-10	Sections and Details
S-0	Door and Window Schedule
S-1	Structural Notes and Typical Details
S-2	Typical Structural Details
S-3	Foundation Plan
S-4	Roof Framing Plan
S-5	Structural Details
E-1	Structural Details
	Electrical Plan



KASPRZYCKI
DESIGNS

40 Kupuohi Street, Suite 203
Lahaina, Hawaii 96761
Office 808-667-6116
www.kasprzyckidesigns.com



This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License: 4/30/2026

Atom K. Kasprzycki
Signature

Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:
RI Civil updated, Landscape added

Title Sheet

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

T-1

Total Sheet Count: 33

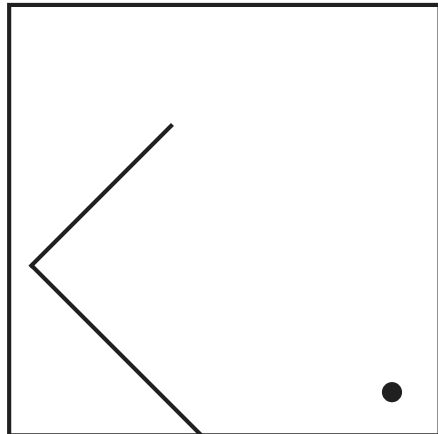
1. General Notes

- 1.1.Architect will provide observation of the work per H.A.R. 16-115-9 requirements.
- 1.2.Visits to the site by Architect's field representatives shall not be construed as observation nor approval of construction or its compliance with architectural drawings
- 1.3.Contractor shall notify architect in writing at least two weeks prior to any of the following events:
- 1.3.1.Site Work: completion of mass excavation and/or any site work
- 1.3.2FOUNDATIONS, Concrete Work, Retaining Walls, and Pools: after inspection by Building Inspector and prior to pouring concrete.
- 1.3.3.Framing: after inspection by Building Inspector and prior to installation of insulation and gypsum board and/or wall and ceiling finishes.
- 1.3.4.Substantial Completion: after final inspection by Building, Plumbing, and Electrical Inspectors.
- 1.4.Architect is not responsible for any work off of Owner's property (I.E. utilities, driveway aprons, etc.).
- 1.5.Contractor to verify with Architect that Contractor has most current construction documents prior to ordering of any materials and prior to any construction.
- 1.6.The Contractor shall verify all dimensions and conditions at site prior to commencement of construction.
- 1.7.Any omissions or conflicts between the various elements of the working drawings and/or the specifications shall be brought to the attention of the Architect before proceeding with any work.
- 1.8.All details, section and notes shown are typical and shall apply to similar situations unless otherwise noted. Wall construction and fastener schedule per IRC if not detailed otherwise in this plan set.
- 1.9.The Contractor shall immediately notify Architect of any conditions which might endanger the stability of the structure or cause visible distress in the structure.
- 1.10.All work shall conform to the best practices prevailing in the various trades comprising the work.
- 1.11.Contractor shall be responsible for all construction means, methods, techniques, sequences, safety precautions and procedures required to preform the work.
- 1.12.Contractor shall ensure proper placement of all opening, sleeves, curbs, conduits, reinforcing, bolts, embedded hardware, inserts, etc..
- 1.13.Contractor shall provide adequate bracing and shoring for all structural members during all phases of construction.
- 1.14.All conditions of potential instability of embankments, cut or fill slopes should be brought to the attention of the Architect.
- 1.15.Coordinate framing (where applicable) with mechanical and electrical subcontractors to insure proper installation of ducting and plumbing.
- 1.16.Do not scale the drawings.
- 1.17.All wall dimensions are to face of stud unless noted otherwise.
- 1.18.Any grades shown are approximated. Contractor shall verify existing grade elevations prior to start of work.
- 1.19.Contractor shall be responsible to perform coordination with State and local authorities and utilities.
- 1.20.Contractor shall provide temporary sanitary toilet facility throughout the construction. Chemical toilets shall be of an approved type and shall be serviced regularly to prevent contamination or disturbance of the area.
- 1.21.Contractor to provide regular dumpster service or other legal means of removing and disposing of construction debris from the project.
- 1.22.Unless specified in the architectural drawings, and if there are no civil engineering drawings, site drainage design and details by others.
- 1.23. Unless specified otherwise by project structural engineer consultant, all 4X beams or larger shall be No.1 or better Douglas Fir Larch. Glue Laminated Timber to be visually graded western species 24F-V4.
- 1.24.All solid sawn and framing lumber, and wood panels, to be treated. When wood joists or framing members or the bottom of wood structural floors without joists are located closer than 18", or wood girders or structural members are located closer than 12", to exposed ground in crawl spaces or un-excavated areas located within the periphery of the building foundation, the floor assembly, including posts, girders, joists and subfloor, shall be of approved naturally durable wood or wood that is treated for ground contact per AWWA U1 and MCC 16.26C.2304.12.5.
- 1.25.Contractor shall provide Architect for review; engineer certified shop drawings of all manufactured structural building systems (I.E. roof trusses, structural panels, beams, metal to metal connections, metal to wood connections, etc.), prior to start of construction and prior to ordering materials. Unless specified in plan set, these plans show design concept only. Actual design and layout to be determined by Hawaii licensed Structural Engineer, consulting with system manufacturer.
- 1.26. Unless specified otherwise by project structural engineer consultant, Design Criteria: Live Loads:
- Roof pitches 4:12 and greater - 16 PSF
- Roof pitches less than 4:12- 20 PSF
- Floors - 40 PSF
- Ground snow load, Pg: 0
- Risk Category: II, Importance Factor: 1.0
- Wind exposure: C
- Design Wind Speed: V_ult: 115 MPH, V_asd: 89 MPH
- Topographic Factor (Kzt): 1.0
- Seismic Design Category D1, Site Class: D
- Design Spectral Response Acceleration: SDs 0.69, SD1 0.30
- Flood Design Data: See Project Data on Title Sheet
- 100-Year, 1-Hour Rainfall (Inches): 3
- 1.27.Soil Bearing
- 1.27.1.For projects with a soils report:
- 1.27.1.1.For soil bearing capacity see soils report prepared by project Geotechnical Engineer.
- 1.27.1.2.Contractor to coordinate with Geotechnical Engineer prior to commencement of construction. All site work and foundation related design recommendations contained in the soils report shall be adhered to.
- 1.27.2.For Projects without a soils report:
- 1.27.2.1.Assumed soil bearing capacity: 1500 PSF and as required by local authority. Local authority to determine acceptability of footings installed on ground surface.
- 1.27.2.2.The Architect recommends a geotechnical investigation in order to determine the subsurface conditions of any project and to verify foundation design criteria. In the absence of a geotechnical report, chances of encountering unforeseen unsuitable soil conditions are greatly increased. If the Owner elects not to provide a geotechnical engineer for this project provisions of Chapter 4, 2018 IRC will be made. The Owner agrees to hold harmless the Architect from and against all claims, losses, damages, liability and costs connected with adverse building performance as a result of unsuitable soil conditions that do not meet the design criteria assumed by the Architect without the benefit of a geotechnical report.
- 1.28.All footings shall bear on firm, undisturbed earth or approved well-graded Bankrun material. A 3' maximum size of rock. Compact to at least 95% of it max. Density as determined by ASTM

- D-1557. Architect is not responsible to verify soil compaction. Provide drainage and dewatering around all work to avoid water-softened footings.
- 1.29.The Architect does not guarantee nor is the Architect responsible for the performance or lack thereof, for the acts or omissions of any contractor, subcontractor, supplier or any other person or entity furnishing materials or performing any work on the project.
- 1.30. Contractor shall provide architect for review engineer certified shop drawings of all mechanical systems of conditioned spaces prior to start of any construction and ordering materials. Design and layout to conform to County amended 2018 IEBC and be determined by Hawaii licensed Mechanical Engineer consulting with system manufacturer. Not less than 90 percent of permanently installed lighting fixtures shall contain high-efficacy lamps. All recessed luminaires/ lights shall be IC-rated with an air leakage of no greater than 2.0 cfm when tested in accordance with ASTM E 283 at a pressure differential of 1.57 psf. Recessed luminaires/lights installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. Recessed luminaires/lights shall be sealed with a gasket of caulked between the housing and the interior wall or ceiling covering. Outdoor lighting must be fully shielded and down directed with no light shining above the horizontal. Contractor to verify with Owner number and location of all electrical fixtures prior to construction.
- 1.31.Unless specified otherwise in this plan set, when electrical service exceeds 200 amps and/or 30kVA Contractor to coordinate with Hawaii licensed electrical engineer to obtain a single line diagram with load calculations and upgrade the electric service as required.
- 1.32.When applicable Contractor to coordinate with electrician and Install a Certificate of Energy Compliance Measures on the inside face of the electric panel door at project completion.
- 1.33.Provide a solar powered water heater system or Architect approved alternate as required for new single-family residential construction per HRS §196-6.5. When water heater is shown in plan as being installed at the exterior of the building water heater shall be approved for outdoor installation, circuit conductors shall have a minimum temperature rating of 90C and shall be enclosed in flexible metal conduit or other approved method per MCC 16.18B.109-3b. Hot water piping shall have a minimum R-3 insulation per 2018 IECC, R403.5.3.
- 1.34.Verify liquid propane tank location in field with gas company and provide recommended location to Architect for review and approval.
- 1.35.Ceramic tile surfaces shall be installed in accordance with ANSI A108.1, A108.4, A108.5, A108.6, A108.11, A118.1, A118.3, A136.1 and A137.1.
- 1.36.Materials used as backers for wall tile in tub and shower areas and wall panels in shower areas shall be glass mat gypsum backing panel, fiber-reinforced gypsum panels, non-asbestos fiber-cement backer board, or non-asbestos fiber mat-reinforced cementitious backer units installed in accordance with manufacturers' specifications.
2. Building Code Requirements
- 2.1.Provisions of the following standards apply to every dwelling when applicable:
- 2018 International Building Code (IBC) - Ordinance 3928
- 2018 International Residential Code (IRC) - Ordinance 3929
- NFPA 1, Fire Code, 2012 Edition - Ordinance 4232
- 2018 International Energy Conservation Code - Ordinance 5455
- 2018 Uniform Plumbing Code - Ordinance 3923
- 2020 National Electrical Code - Ordinance 3726, Outdoor Lighting - Ordinance 3430
- 2.2.Smoke and Carbon Monoxide Detectors shall be provided at all bedroom areas, corridors adjacent to bedrooms and top of stairs. Connect to residence power source (110V).
- 2.3.Framing - Contractor shall be responsible for complying with Chapters 5, 6, 7, & 8 of the 2018 IBC/IRC for all framing, executions and for verification of all local design loads.
- 2.4.Roof Ventilation shall comply with R806.
- 2.5.Water closets shall have 30" min. clear width and 24" of clear space in front of each.
- 2.6.Waterproofing and draining of walls behind planters and retaining walls shall comply with Sections R405 and R406 of the 2018 IRC.
- 2.7.Exterior Plaster (stucco finish): Install per manufacturer's specifications and in accordance with 2018 IRC R703.7. Provide plastic weep screed with minimum vertical attachment flange of 3 1/2" at or below the foundation plate line on exterior stud walls in accordance with ASTM C926. The weep screed shall be placed not less than 4" above the earth or 2" above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. Weather-resistant or vapor barrier shall lap the attachment flange. The exterior lath shall cover and terminate on the attachment flange of the weep screed.
- 2.8.Water-resistive barriers: Install per manufacturer's specifications and in accordance with 2018 IRC R703.2 and R703.7.3
- 2.9.Unless specified otherwise in plan set, wall anchorage shall comply with R403.1.6, R403.1.6.1 and R602.11 of the 2018 IRC. Manual or power driven fasteners may be used if previously approved by architect.
- 2.10.Unless specified otherwise in plan set, building paper, or metal barrier shall be provided between wood and concrete or masonry unless wood is pressure treated with an approved ground contact preservative marked by an approved agency.
- 2.11.Crawl Spaces: Accessible underfloor areas shall be provided with an 18"x24" min. opening.
- 2.12.See structural drawings for holes and notch requirements.
- 2.13.Fire blocking shall comply with R302.11 and subsequent sections.
- 2.14.Attic access with vertical clear height of 30" or more shall be provided. Unless specified otherwise in plan set, the minimum size access shall be 22"x30" and shall be in a hallway or other readily accessible location.
- 2.15.Guards shall be provided at all walking surfaces, including stairs, ramps, and landings, that are more than 30" above grade or floor below at any point within 36" horizontally to the edge of the open side. Guards shall not be less than 36" in height. Guards and handrails shall have intermediate rails such that an object 4" in diameter cannot pass through.
- 2.16.Handrails provide min. one side of stairs of each of continuous run of treads or flight with four or more risers and shall not be less than 34" or more than 38" above nosing. Handgrip not less than 1-1/4" or more than 2" in cross-sectional dimensions. Noncircular handrails to comply with R311.7.8.5(1).
- 2.17.Stairways:
- Runs - 10" min
- Riser - 7 3/4" max., and 3 7/8" max. vertical opening in stair riser 30" or higher from grade.
- Width - 36" min. above handrails. Clear width of stairway at and below handrail shall not be less than 31 1/2" where a handrail is installed on one side and 27" where handrails are installed on both sides.
- Landing - 36" in length minimum, at top and bottom of each stairway or stair run, 2% slope max., 1:48 max. cross slope when slope and cross slope are specified in design.
- Headroom - 6'-8" min. from a plane parallel and tangent to the stairway tread nosing to any construction above at all points.
- 2.18. Insulation, Unless noted otherwise in plan set:
- 2.18.1.Roofs:
- 2.18.1.1. Insulation entirely above roof deck: R-12.5 Continuous Insulation
- 2.18.1.2. Metal Buildings: R-30 or R-19 with Cool Roof
- 2.18.1.3. Attic and other: R-30 or R-19 with Cool Roof
- 2.18.2.Walls, above grade:
- 2.18.2.1. Mass: R-5.7 Continuous Insulation, or allowable substitutions
- 2.18.2.2. Metal Building: R-13 + R-6.5 Continuous Insulation
- 2.18.2.3. Metal Framed: R-13 + R-5 Continuous Insulation

- 2.18.2.4. Wood Framed and other: R-13 + R-3.8 Continuous Insulation, or R-20, or allowable substitutions
- 2.18.3.Walls, below grade: No Requirement
- 2.18.4.Floors: No Requirement
- 2.18.5.Heated Slabs: R-7.5 for 12" below
- 2.18.6. Opaque Doors: Non-swinging: R-4.75
- 2.19.Unless allowed by Zoning and otherwise specified in plan set, 30' Maximum Building Height. "Height" of structure - means the vertical distance measured from a point on the top of the structure to a corresponding point directly below to the natural or finish grade, whichever is lower.
- 2.20.2018 IBC 705.3 For the purposes of determining the required wall and opening protection and roof-covering requirements, buildings on the same lot shall be assumed to have an imaginary line between them. Where a new building is to be erected on the same lot as an existing building, the location of the assumed imaginary line with relation to the existing building shall be such that the exterior wall and opening protection of the existing building meet the criteria as set forth in Sections 705.5 and 705.8. Exception: Two or more buildings on the same lot shall either be regulated as separate buildings or shall be considered as portions of one building if the aggregate area of such buildings is within the limits specified in Chapter 5 for a single building. Where the buildings contain different occupancy groups or are of different types of construction, the area shall be that allowed for the most restrictive occupancy or construction.
- 2.21.Projections: For residential projects eaves/projections are prohibited less than 2' from property line. From 2' to less than 5' from property line, the underside of projections must be 1-hour fire-resistance rated. Per Table R302.1(1) the fire resistance rating shall be permitted to be reduced to 0 hours on the underside of the eave overhang if fire blocking is provided from the wall top plate to the underside of the roof sheathing. For any eave conditions shown on the site plan which are between 2' and 5' from the property line Contractor shall omit vented blocking and install solid blocking in its place. Contractor shall also increase ridge venting area, or add exterior mounted self-flashing attic vent, by 0.0654 SF per vented block omitted.
- 2.22.Mechanical Ventilation per 2018 IRC Section M1505. Unless specified otherwise by Licensed Mechanical Engineer Consultant in plan set:
- 2.22.1. Whole-House Mechanical Ventilation: Provide a dedicated IAQ fan. See 2018 IRC M1505.4.3(1) for sizing requirements.
- 2.22.2. Kitchens: 100 CFM intermittent, or if specified in plan set 25 CFM continuous.
- 2.22.3. Bathrooms - Toilet Rooms: minimum ventilation rates shall be 50 CFM intermittent, or if specified in plan set 20 CFM continuous. Exhausted air from space shall be exhausted directly to the exterior of the structure. Under cut doors to provide inflow.
- 2.23. Under-floor ventilation shall comply with R408 of the IRC 2018 - Total screened openings shall have a min net area of 1 S.F. for each 150 S.F. of under-floor area. Provide screened ventilation openings within 3' of each corner of the building. Invented crawl spaces shall be provided with continuously operated mechanical exhaust ventilation at a rate of 1 cubic foot per minute for each 50 square feet of crawl space floor area.
- 2.24. Landings - Provide at exterior doors, not less than the width of door and 36" in length.
- 2.25. Drainage - Grade areas around structure to drain surface water away from building. Min. 2% slope within first 10' or to swale.
- 2.26. Address Identification: Buildings shall be provided with an approved address identification. Address numbers shall be a minimum of 4 inches high with a minimum stroke width of 1/2 inch. Numbers shall contrast with their background and not be spelled out. Coordinate location of numbers on building with orientation of building as shown on site plan and ensure numbers are placed on side of building facing street.
- 2.27. Roof eaves may not extend more than 3' into Building Setback areas and must be at least 8' above finished grade at their lowest point. Contractor to verify and adjust finish grades as needed to comply.
3. Window Requirements
- 3.1.Windows shall have a maximum SHGC of 0.25
- 3.2.Natural light and ventilation - All habitable rooms shall have an aggregate glazing area of no less than 8% of the floor area of such rooms. Natural ventilation shall be through windows, doors, louvers or other approved opening to the outdoor air. Such openings shall be provided with ready access or shall otherwise be readily controllable by the building occupants. The operable area to the outdoors shall be not less than 4% of the floor area being ventilated. When project energy code compliance is through the Tropical Zone method: Operable fenestrations shall provide a ventilation area not less than 14 percent of the floor area in each room. Alternatively, equivalent ventilation must be provided by a ventilation fan.
- 3.3.Emergency escape and rescue openings: Basements, habitable attics, and every sleeping room shall have not less one operable emergency escape and rescue opening. Windows shall have a min. net clear operable area of 5.7 S.F.. The min. net clear operable height shall be 24". The min. net clear operable width shall be 20". Opening height shall not be more than 44" above the floor.
- 3.4. Operable windows above the first floor which still have a sill height less than 24" above finished floor and greater than 72" above the finished grade or other surface below on the exterior of the building, the operable window shall comply with 2018 IRC R312.2.1.
- 3.5. Safety glazing shall comply with 2018 IRC R308, and be provided at the following locations;
- 3.5.1. Windows adjacent to a door where the nearest exposed edge if the glazing is within a 24" arch of either vertical edge of the door in a closed position.
- 3.5.2. Glazing adjacent to stairways shall comply with 2018 IRC R305.4(10) and R308.4(11).
- 3.5.3. Windows at bathtub and shower when exposed edge is less than 60" above the standing surface and drain inlet.
- 3.5.4. When bottom edge of glazing is less than 18" above the floor.
- 3.6. Windborne debris protection shall comply with 2018 IRC R609.6
4. Safe Room Requirements
- 4.1. Floor, wall, and roof construction to comply with MCC 16.26C.429. See Structural Drawings.
- 4.2. Doors and Windows to comply with MCC 16.26C.429, Sections 429.2, 429.5.3, and Table 429.5-1.
- 4.3. Ventilation to comply with MCC 16.26C.429, Sections 429.6 and include insect screening and impact tested cowl or other device complying with ASTM E 1996-14 Level D.
- 4.4. Communications to be provide to safe room and to comply with MCC 16.26C.429, Section 429.7.
- 4.5. The construction or installation of residential safe room shall be verified for conformance with the approved construction documents, and to MCC 16.26C.429, by way of Special Inspection.
- 4.6. Upon completion of construction the general contractor shall assist the owner of the safe room in notifying the state department of defense and county civil defense agency of the property's tax map key number or global positioning system coordinates.

NOTICE
ALL NOTES MAY NOT BE APPLICABLE TO THE PROPOSED PROJECT.
OWNER AND/OR BUILDER SHALL CHECK AND VERIFY ALL NOTES WITH THE PROJECT DESIGN PROFESSIONAL PRIOR TO THE START OF CONSTRUCTION.



KASPRZYCKI
DESIGNS

40 Kupuohi Street, Suite 203
Lahaina, Hawaii 96761
Office 808-667-6116
www.kasprzyckidesigns.com



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License: 4/30/2026

Atom K. Kasprzycki
Signature

Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

Date: 10-21-2024

Phase: Permit Set

Drawn: MB, AK

Job: 24-20

Sheet Number:

T-2

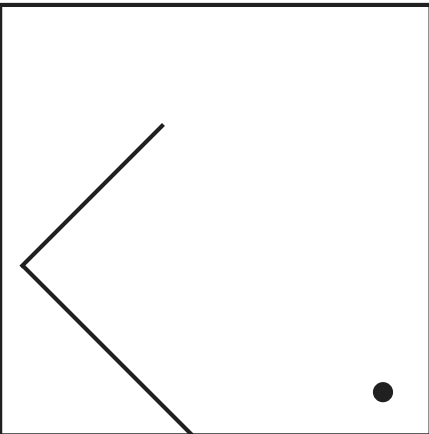
Total Sheet Count: 33

General Notes

Abbreviations					
'	Foot or Feet	Ext.	Exterior	Oz.	Ounce
"	Inch or Inches	FD	Floor Drain or Fire Department	Par.	Parallel
#	Pound or Number	FE	Fire Extinguisher	Perp.	Perpendicular
&	And	FEC	Fire Extinguisher Cabinet	Perf.	Perforated
@	At	F/F	Finish to Finish	PCC	Pre-Cast Concrete
CL	Center Line	FF	Floor Finish	Pl.	Plate
AB	Anchor Bolt	Fin.	Finish	PLF	Pounds Per Lineal Foot
Abv.	Above	Fixt.	Fixture	Plumb.	Plumbing
ACT	Acoustic Ceiling Tile	Flr.	Floor or Flooring	Plwd.	Plywood
ACU	Air Conditioning Unit	FO	Face of...	PT	Pressure Treated
L	Angle	FOC	Face of Concrete	Pnl.	Panel
AD	Area Drain	FOM	Face of Masonry	Pnt.	Paint or Painted
Adj.	Adjustable	FOIC	Furnished by Owner, Installed by Contractor	PT	Point
Alt.	Alternate	FOS	Face of Stud	PVC	Polyvinyl Chloride
AFF	Above Finished Floor	FRP	Fiberglass Reinforced Plastic	RA	Return Air
Alum.	Aluminum	Fr.Pl.	Fire Place	Rad.	Radius
Anod.	Anodized	Furr.	Furring or Fur Out	Rbr.	Rubber
Arch.	Architectural	Frz.	Freezer	RCP	Reflected Ceiling Plan
Brd.	Board	Fluor.	Fluorescent	RD	Roof Drain
Blkg.	Blocking	Fnd.	Foundation	Ref.	Reference
Bm.	Beam	Ga.	Gauge	Refr.	Refrigerator
Bynd.	Beyond	Galv.	Galvanized	Reinf.	Reinforced
Bot.	Bottom	GC	General Contractor	Req.	Required
Cab.	Cabinet	GL	Glulam or Glue Laminated Beam	Resil.	Resilient
CB	Catch Basin	GB	Gypsum Board	RH	Robe Hook
CIP	Cast in Place	HB	Hose Bib	RHnd.	Right Hand
Chnl.	Channel	H/C	Hot/Cold	Rm.	Room
CJ	Control Joint	HC	Hollow Core	RO	Rough Opening
Cl.	Closet	Horiz.	Horizontal	Rev.	Revision or Revised
Clg.	Ceiling	HR	Hour	SA	Supply Air
Clr.	Clear	HVAC	Heating, Ventilating, and Air Conditioning	SAM	Self-Adhered Membrane
CMU	Concrete Masonry Unit	HW	Hot Water	SD	Solid Core
Col.	Column	ID	Inside Diameter	SD	Smoke Detector
Compr.	Compressible	ILO	In Lieu Of	Sect.	Section
Conc.	Concrete	IM	Ice Maker	SF	Square Foot or Square Feet
Conn.	Connection	Insul.	Insulated or Insulation	SG	Safety Glass
Cont.	Continuous	Int.	Interior	Shf.	Shelf or Shelving
Corr.	Corridor	IWS	Individual Wastewater System	Spec.	Specified or Specification
Cpt.	Carpet	JB	Junction Box	Sq.In.	Square Inch
CT	Ceramic Tile	Lam.	Laminate or Laminated	SS	Stainless Steel
Dbl.	Double	Lav.	Lavatory	STC	Sound Transmission Coefficient
Demo.	Demolish or Demolition	LF	Lineal Feet	Stl.	Steel
Det.	Detail	LB	Pound or Pounds	Struct.	Structure or Structural
Dia.	Diameter	LHnd.	Left Hand	TB	Towel Bar
Dim.	Dimension	Loc.	Location or Locate	T&G	Tongue and Groove
Dims.	Dimensions	Lt.	Light	Temp.	Tempered
Dwn.	Down	Max.	Maximum	TME	To Match Existing
Dr.	Door	MB	Machine Bolt	TO	Top of...
DW	Dishwasher	MC	Medicine Cabinet	TOC	Top of Curb
Dwg.	Drawing	Mech.	Mechanical	TOS	Top of Slab
Ea.	Each	Membr.	Membrane	TPD	Toilet Paper Dispenser
EJ	Expansion Joint	Mfr.	Manufacturer	TPH	Toilet Paper Holder
El.	Elevation	Min.	Minimum	Typ.	Typical
Elec.	Electrical	MRGB	Moisture-Resistant Gypsum Board	UNO	Unless Noted Otherwise
Elev.	Elevator or Elevation	Mtl.	Metal	VIF	Verify in Field
Encl.	Enclosure	NA	Not Applicable	Vert.	Vertical
Eng.	Engineer or Engineered	NIC	Not in Contract	w/	With
EPDM	Ethylene Propylene Diene Terpolymer	No.	Number	w/o	Without
Eq.	Equal	Nom.	Nominal	WC	Water Closet
Equip.	Equipment	OC	On Center	WH	Heat Pump or Solar Water Heater
Exist.	Existing	OD	Outside Diameter	WIC	Walk In Closet
Exp.	Expanded or Expansion	OH	Overhead	Wd.	Wood
Exp. Jt.	Expansion Joint	Opng.	Opening	Wp.	Waterproof or Waterproofing

Symbols Key	
Grid Line	
Interior Elevation Marker	
Building Section Marker	
Wall Section Marker	
Detail Marker	
Room Label	<div>Bathroom 101 Area: 50.0 sqft</div>
Door Label	
Window Label	
Elevation or Datum Reference	<div> Reference Location Unit of Measure</div>
Assembly Label	<div> Assembly Number Assembly Type R = Roof C = Ceiling W = Wall F = Floor</div>
Revision Reference	<div> Revised per XXX Date Xxx. X, 20XX ← Found at Top Right of Page Revision Number ← Found at Revision Location</div>
Match Line	<div>MATCH LINE - PORTION 1 MATCH LINE - PORTION 2</div>
Property Line	
Building Setback Line	
Existing Grade Line	
Proposed Grade Line	

Fill Key	
Earth	
Gravel	
Concrete	
CMU Block	
Block Masonry	
Steel	
Plywood	
Gypsum Board	
Stucco	
CRM or Rock Veneer	
Aluminium	
Stone Surface	
Wood Millwork	



KASPRZYCKI
DESIGNS

40 Kupuohi Street, Suite 203
Lahaina, Hawaii 96761
Office 808-667-6116
www.kasprzyckidesigns.com



This work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License: 4/30/2026

Signature

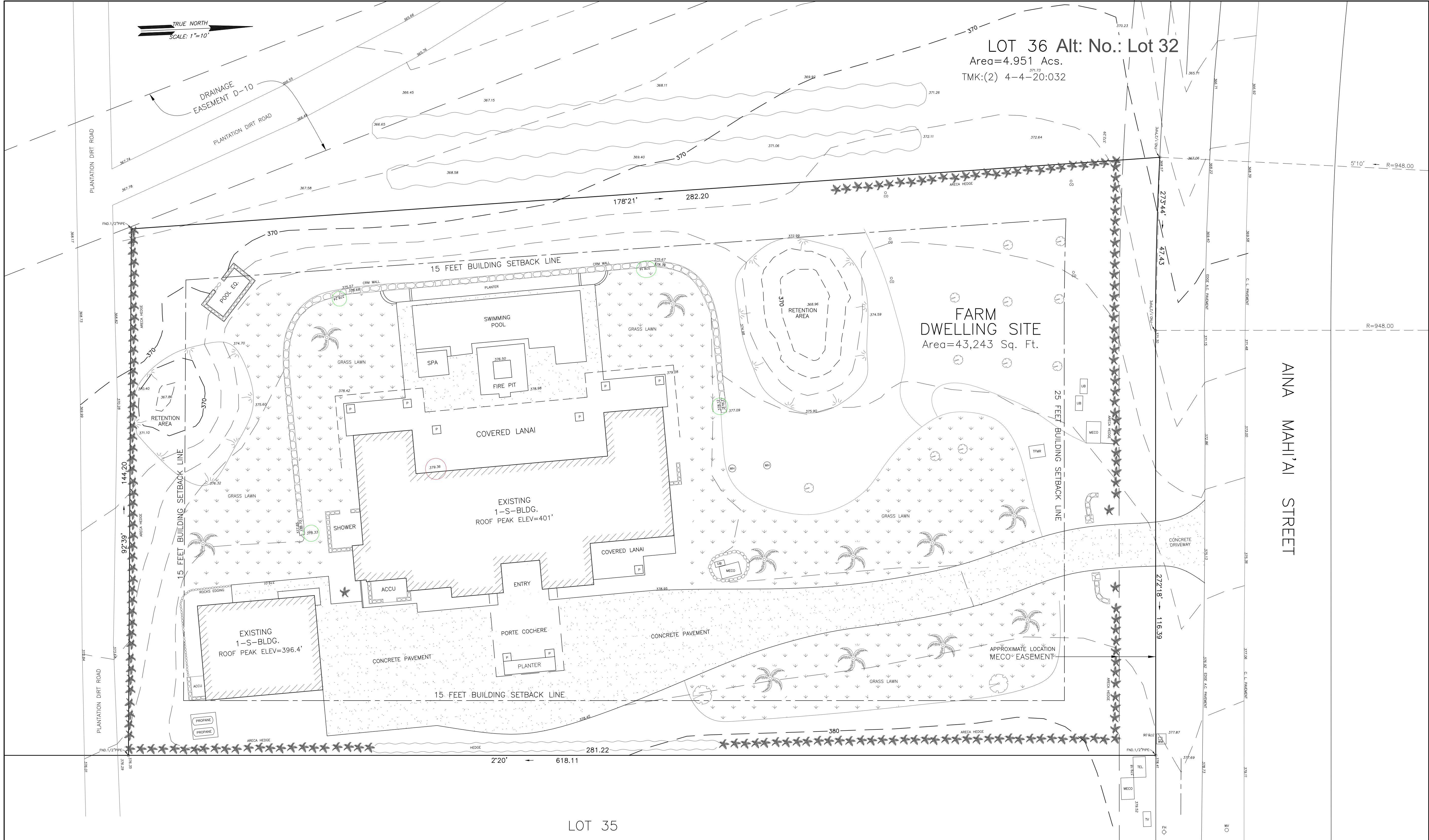
Proposed Second Farm Dwelling
Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

**Abbreviations, Symbols Key,
and Fill Key**

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

T-3
Total Sheet Count: 33



- NOTES:
1. This map is based from a survey performed on Feb. 13, 2021.
 2. Coordinates and azimuths are based from Triangulation Station "MANINI" and its meridian was established from the street survey monuments along Aina Mahi'ai Street.
 3. Elevation shown hereon is based from MSL Subdivision Bench Mark.
 4. The Building is 21.64 feet high from Slab to the highest point on the roof.
 5. All corners are marked with a 1/2 inch pipe (fnd).

T.M.K.: (2) 4-4-020:032
Scale 1" = 10 ft

LEGEND:
WM = WATER METER
FH= FIRE HYDRANT
WV= WATER VALVE
MH= MANHOLE
CO= CLEAN OUT
TFMR= TRANSFORMER
P= POST
UB= UTILITY BOX
= ROWS OF COFFEE TREE
= PALM TREE
= TREE

PREPARED BY:
VALENCIA LAND SURVEYING LLC
P. O. BOX 13008
LAHAINA, MAUI, HAWAII 96761
808-661-3257

This work was prepared by me or under my direct supervision.
VALENCIA LAND SURVEYING
Arthur P. Valencia 4/03/24
ARTHUR P. VALENCIA
Licensed Professional Land Surveyor
State of Hawaii Certificate No. 10026
Exp. Date: 4/30/24



INSET A
FARM DWELLING SITE
LOT 36
KAANAPALI 2020 SUBDIVISION
Being Agricultural Lot No. 32
Kaanapali Coffee Farms
Hanakao, Kaanapali, Lahaina, Maui, Hawaii

GROUND STABILIZATION NOTE:

1. TIMING OF CONTROL MEASURE IMPLEMENTATION. TIMING OF CONTROL MEASURE IMPLEMENTATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN IF SUCH PLAN IS REQUIRED. AT A MINIMUM DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE REDISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSES OR GRAVELED) BY NO LATER THAN THE FOURTEENTH DAY AFTER LAST DISTURBANCE. PER MAUI COUNTY CODE 20.08.035(G)

LEGEND:

- 25--- EXISTING GRADE CONTOUR LINE
---50--- FINISH GRADE CONTOUR LINE
---SILT BARRIER
--- GRADING LIMITS
DRAIN INLET
OVER LAND RUNOFF FLOW DIRECTION
2257.5' FINISHED GRADE SPOT ELEVATION
DOWNSPOUTS (TYP.)
D8" DRAINLINE W/ SIZE & FLOW DIRECTION (MINIMUM SLOPE = 2%)
RETAINING WALL CALLOUT (NOT FOR AESTHETIC WALLS)
TOW = "RETAINED SOIL ELEVATION"
BOW = "SOIL ELEVATION AT TOE OF WALL"
IRRIGATION MAINLINE

DRIVEWAY NOTES:

(SECTION 7.6) - DRIVEWAYS SHALL BE DESIGNED TO HAVE MINIMAL EFFECT ON FARM LAND AND FARMING OPERATION. FARMING OPERATIONS WILL REQUIRE CROSSINGS FOR FARMING VEHICLES AND EQUIPMENT AT TWO LOCATIONS ALONG THE PROPOSED DRIVEWAY. DRIVEWAY IMPROVEMENTS, STORM DRAINAGE AND RUNOFF, UNDERGROUND UTILITIES, AND LANDSCAPING AND IRRIGATION AT THESE LOCATIONS SHOULD BE DESIGNED AND SPECIFIED AS NECESSARY TO ACCOMMODATE SUCH FARMING TRAFFIC.

(SECTION 10.16) - THE EDGE OF THE ASPHALT PAVED ROADWAY SHALL BE PROTECTED BY A REINFORCED CONCRETE HEADER, OR OTHER METHOD APPROVED BY THE ALC, AT ALL LOCATIONS USED FOR TEMPORARY OR PERMANENT ACCESS TO THE LOT. THE ASPHALT EDGE PROTECTION SHALL BE INSTALLED PRIOR TO CONSTRUCTION OR ANY SIGNIFICANT TRAFFIC FROM THE ROADWAY TO THE LOT. FURTHERMORE, THE ROADSIDE IRRIGATION WATERLINE, AT THE CONSTRUCTION ACCESS LOCATIONS AND/OR DRIVEWAY LOCATION, SHALL BE PROTECTED DURING CONSTRUCTION.

WORK NOTES:

- CONTRACTOR SHALL NOTIFY THE KCFLOA AT LEAST TWO WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN ANY EASEMENTS, AND WITH A REQUEST FOR A PRE-CONSTRUCTION MEETING WITH A KCFLOA (OR FARMING TENANT) REPRESENTATIVE TO REVIEW THE PROCESS AND PROCEDURES OF ALL WORK WITHIN ANY EASEMENTS.
- CONTRACTOR SHALL NOTIFY KCFLOA AT LEAST THREE WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE FIELD ROAD, WITH A REQUEST FOR A PRE-CONSTRUCTION MEETING WITH A KCFLOA (OR FARMING TENANT) REPRESENTATIVE TO REVIEW THE PROCESS AND PROCEDURES OF ALL WORK WITHIN THE FIELD ROAD AND THAT MAY IMPACT THE IRRIGATION LINE. LOCATE AND VERIFY THE DEPTH OF THE EXISTING SYSTEM AT THE POINT OF ANY POTENTIAL CROSSINGS. A KCFLOA (OR FARMING TENANT) REPRESENTATIVE SHALL DETERMINE THE NECESSARY ADJUSTMENTS NEEDED TO THE IRRIGATION SYSTEM IN ORDER TO CONTINUE ITS USE BY THE FARMING TENANT. ANY PORTION OF THE IRRIGATION SYSTEM UNDER THE DRIVEWAY, WHETHER EXISTING OR AFTER ADJUSTMENTS, SHALL BE PROTECTED WITH A CONDUIT SLEEVE OR CONCRETE ENCASED.
- CONTRACTOR SHALL VERIFY THE DEPTH OF THE EXISTING WATERLINES PRIOR TO ANY WORK WITHIN OR NEAR TO ANY EASEMENTS. NOTIFY KCFLOA IF THERE ARE ANY CONFLICTS WITH THE PROPOSED IMPROVEMENTS (INCLUDING GRADING, IRRIGATION LINES, LANDSCAPE PLANTINGS, ETC.). THE WORK TO VERIFY THE DEPTH OF THE IRRIGATION MAIN SHALL BE DONE WITH HAND TOOLS ONLY. IT IS IMPERATIVE THAT EXTRA CARE IS TAKEN TO NOT DAMAGE THE IRRIGATION MAIN WATERLINE. THEREFORE, NO HEAVY EQUIPMENT SHALL BE USED.
- ALL PROPOSED WATERLINES, ONSITE AND OFF, SHALL HAVE A MINIMUM COVER OF 2', PARTICULARLY IN AREAS WHERE THE WATERLINE CROSSES ANY FARM ACCESS ROAD.
- CONTRACTOR SHALL VERIFY AND LOCATE ROADWAY IRRIGATION LINES AT DRIVEWAY ENTRANCE. CONTRACTOR TO RELOCATE, PROTECT OR OTHERWISE MAINTAIN THOSE WATERLINES DURING CONSTRUCTION.

*6. INVERTS AND SLOPES OF CLEANOUTS AND SEWERLINES SUBJECT TO CHANGE DUE TO IN-FIELD CONDITIONS.

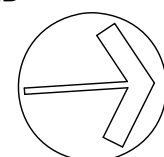
EROSION CONTROL AND BMP IMPLEMENTATION

NOTE:
1. TIMING OF CONTROL MEASURE IMPLEMENTATION. TIMING OF CONTROL MEASURE IMPLEMENTATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN IF SUCH PLAN IS REQUIRED. AT A MINIMUM DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE REDISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSES OR GRAVELED) BY NO LATER THAN THE FOURTEENTH DAY AFTER LAST DISTURBANCE. PER MAUI COUNTY CODE 20.08.035(G)

GROUND STABILIZATION NOTE:

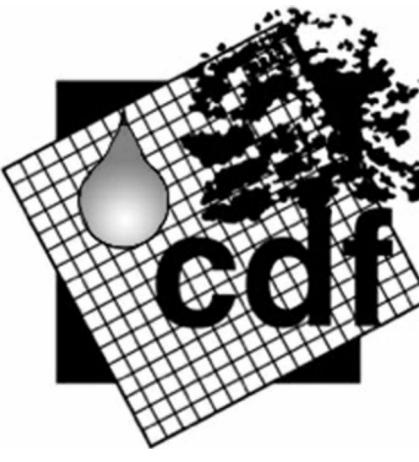
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CONSTRUCTION SHALL BE APPROVED BY AN ARCHITECT OR STRUCTURAL ENGINEER WHEN REQUESTED BY THE BUILDING INSPECTOR



BMP PLAN
SCALE: 1" = 30'

0 30 60 Feet



270 HOKUKAHI STREET, SUITE 301
WAILUKU, HAWAII 96793
808-891-2400



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION. EXPIRATION DATE OF LICENSE 4/30/26

CALHOUN RESIDENCE
GRADING, DRAINAGE & EROSION CONTROL

2575 AINA MAHIAI ST.
LAHAINA, MAUI, HAWAII
T.M.K. (2) 4-4-020:032

Revisions: By:

BMP PLAN

Date: MAY 16, 2025

Phase: PERMIT SET

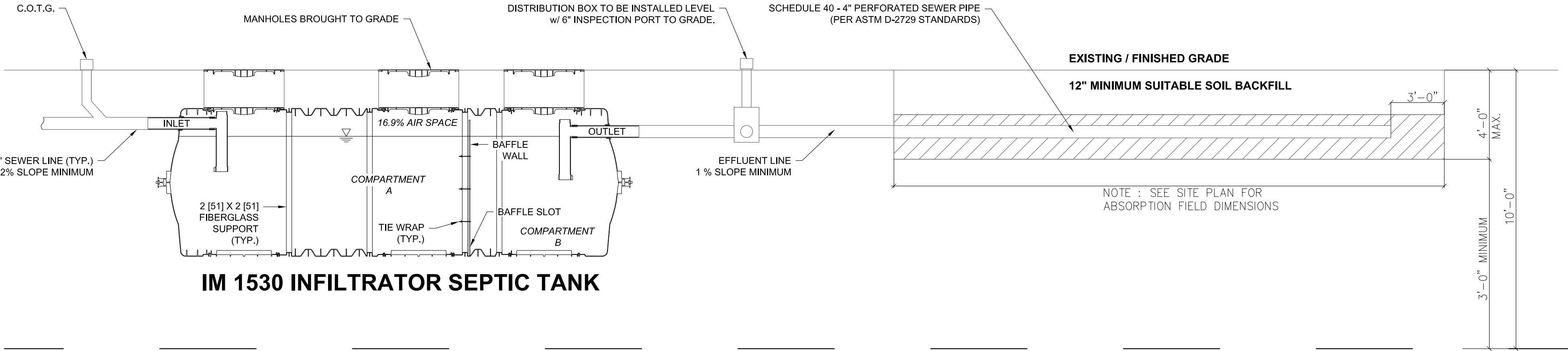
Drawn: HTH

Job: CALHOUN

Sheet Number:

C-1

1 OF 4 SHEETS

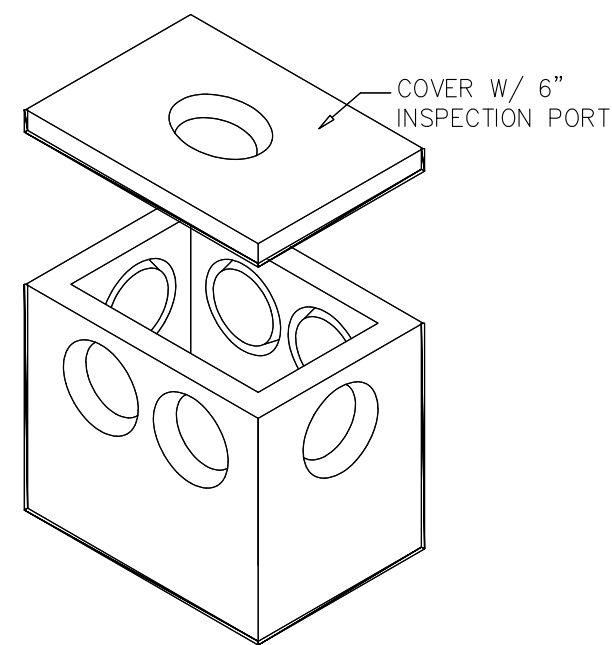
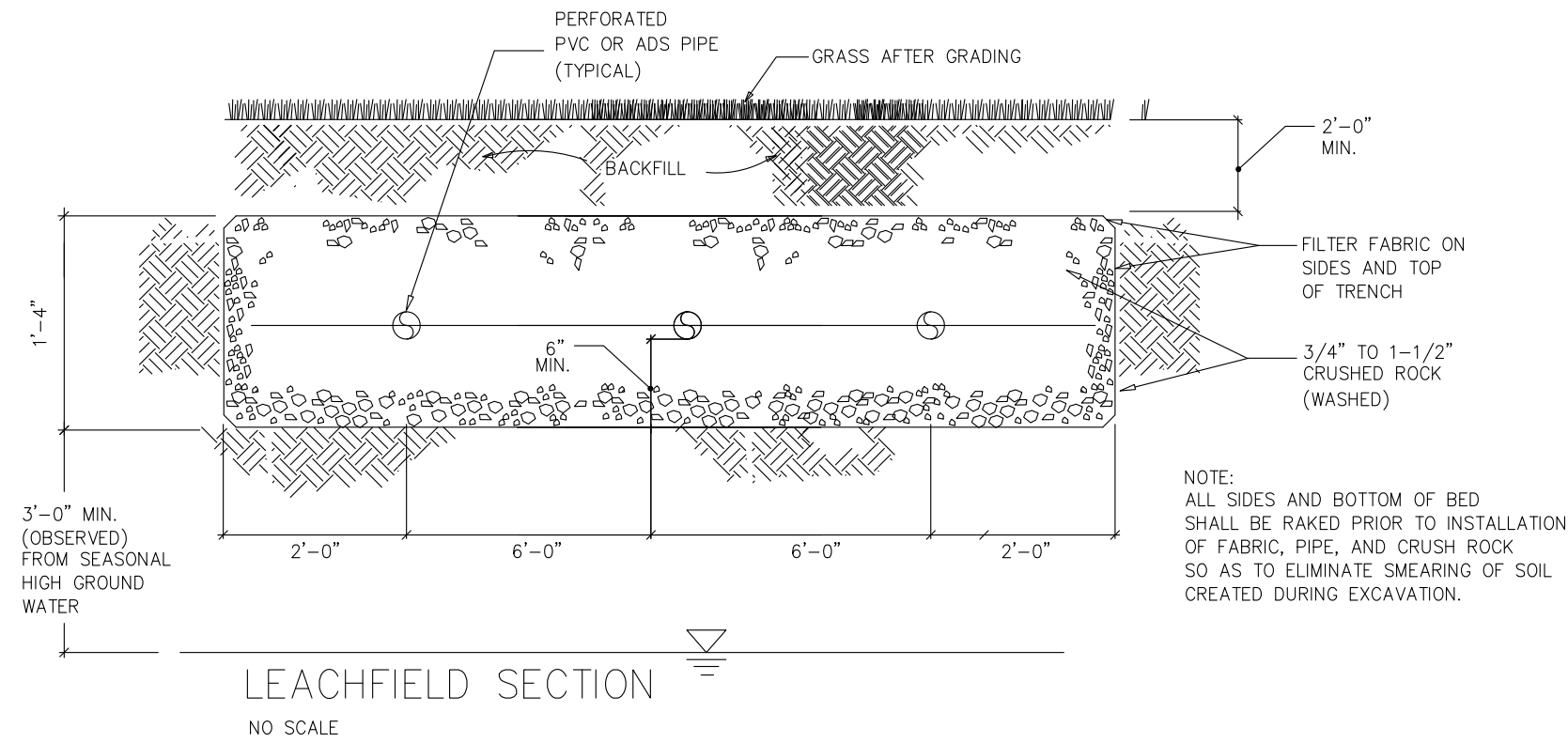


SECTION A
SYSTEM PROFILE - N.T.S

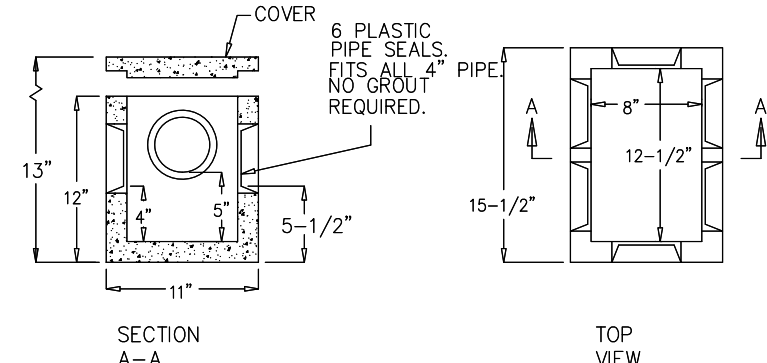
ABSORPTION FIELD CALCULATION:

PROJECT:	CALHOUN (COTTAGE) IWS
LOCATION:	2575 AINA MAHIAI ST LAHAINA HI 96761
T.M.K.	(2) 4-4-020:032
BASIS OF DESIGN:	5 BEDROOMS = 1000 GPD
DESIGN FLOW/SAFETY FACTOR:	1000 GALLONS X 1.25 =1250 GALLONS
SEPTIC TANK:	1250 GALLON CAPACITY
PERCOLATION RATE:	2 MIN./IN
MINIMUM SURFACE AREA:	* 85 S.F./200 GAL x1000 GAL = 425 S.F.
ABSORPTION FIELD DIMENSIONS:	16 X 27' = 432 S.F.

* REFERENCE HAR 11-62-34 AMENDED MARCH 21, 2016.



TUF-TITE 6H
DISTRIBUTION
BOX



DISTRIBUTION BOX DETAIL
NO SCALE

CONSTRUCTION NOTES:

- CONTRACTOR SHALL VISIT THE SITE AND BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS AND THE AMOUNT AND KIND OF WORK TO BE PERFORMED. CONTRACTOR SHALL VERIFY THE LOCATION, INVERT, SIZE, MATERIAL AND CONDITIONS OF EXISTING STRUCTURES AND UTILITIES AND NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE ENCOUNTERED.
- FOR THE ACTUAL FABRICATION, INSTALLATION AND TESTING OF WORK UNDER THIS SECTION, THE CONTRACTOR SHALL USE ONLY THOROUGHLY TRAINED AND EXPERIENCED WORKMEN, COMPLETELY FAMILIAR WITH THE ITEMS REQUIRED AND WITH THE MANUFACTURERS' RECOMMENDATIONS AS TO THEIR USE.
- ALL WORK SHALL CONFORM TO THE UBC, UPC, UMC, UFC, NEC, NFPA, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- CONTRACTOR SHALL PROVIDE, INSTALL, AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY, AND CONVENIENCE OF THE PUBLIC.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL APPLICABLE FEES PRIOR TO COMMENCING ANY WORK.
- CONTRACTOR SHALL PROVIDE (6) SETS OF SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING ANY WORK. ALL WORK DONE WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPAIR OR REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.
- MATERIALS: MANUFACTURERS LISTED BELOW SHOW STYLE AND QUALITY. EQUIVALENT FIXTURES MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. SEPTIC TANK MUST BE IAPMO CERTIFIED.
 - SEPTIC TANK - REINFORCED CONCRETE SEPTIC TANK, 1250 GALLON CAPACITY AS MANUFACTURED BY JENSEN PRECAST, OR APPROVED EQUAL. THE TANK SHALL HAVE DOUBLE COMPARTMENTS WITH MANHOLE ACCESS OVER BOTH COMPARTMENTS.
 - FABRIC LINER - AMOCO 1199 HEAVY DUTY WOVEN FABRIC.
 - PERFORATED PIPE - 4 INCH SCHEDULE 40 PVC WITH 1/2-INCH DIAMETER HOLES DRILLED AT 12-INCH SPACINGS.
 - CRUSH ROCK - GRADATION ASTM DESIGNATION NO. 2, 2-1/2-INCH TO 3/4-INCH MANUFACTURED FROM DURABLE CLEAN ROCKS.
- CONTRACTOR SHALL NOTIFY ENGINEER FOR A SITE INSPECTION PRIOR TO BACKFILL AFTER PERFORATED PIPES HAVE BEEN LAID.
- CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS UPON COMPLETION AND ACCEPTANCE OF WORK.
- CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE TO REPAIR OR REPLACE AT HIS OWN EXPENSE ANY PARTS THAT MAY DEVELOP ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT.

OPERATIONS AND MAINTENANCE
OF INDIVIDUAL WASTEWATER SYSTEM (IWS)

REQUIREMENTS OF IWS

- SHALL NOT CONTAMINATE ANY DRINKING WATER.
- SHALL NOT BE ACCESSIBLE TO INSECTS, RODENTS OR OTHER POSSIBLE DISEASE CARRIERS WHICH MAY COME INTO CONTACT WITH FOOD OR DRINKING WATER.
- SHALL NOT POLLUTE OR CONTAMINATE THE WATERS OF ANY BATHING BEACH OR STREAM USED FOR PUBLIC OR DOMESTIC WATER SUPPLY PURPOSES OF FOR RECREATIONAL PURPOSES.
- SHALL NOT BE A HEALTH HAZARD BY BEING ACCESSIBLE TO CHILDREN.
- SHALL NOT GIVE RISE TO A NUISANCE DUE TO ODOR OR UNSIGHTLY APPEARANCE.
- SHALL NOT VIOLATE ANY OTHER LAWS OR REGULATIONS CONCERNING WATER POLLUTION OR SEWAGE DISPOSAL.

SEPTIC TANK

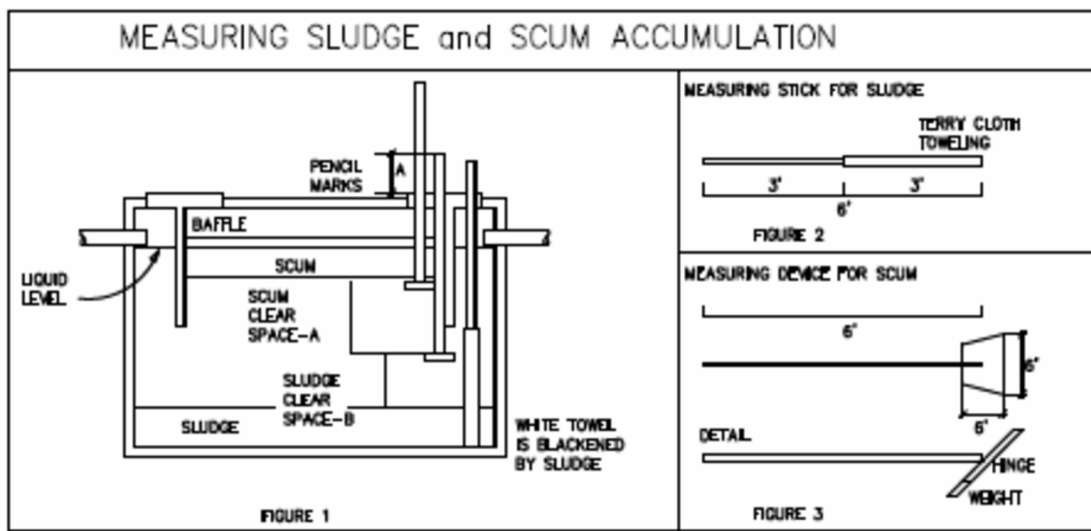
THE DEPTH OF SCUM AND SLUDGE SHOULD BE MEASURED ANNUALLY.

1. MEASURING SCUM DEPTH:

- ATTACH A 8-INCH SQUARE BOARD TO THE BOTTOM OF A STICK ABOUT 6 FEET LONG (SEE FIGURE 1 AND 3).
- AT THE OUTLET END OF THE TANK, EXTEND THE STICK THROUGH THE SCUM LAYER TO FIND THE BOTTOM OF THE BAFFLE OR EFFLUENT PIPE AND MARK THE STICK TO INDICATE THAT POINT.
- RAISE THE STICK UNTIL YOU FEEL OR SEE THE BOTTOM OF THE BAFFLE OR EFFLUENT PIPE AND MARK THE STICK AGAIN TO INDICATE THAT POINT.
- IF THIS SCUM LAYER IS WITHIN 3 INCHES OR IF THE SCUM SURFACE IS WITHIN 1 INCH OF THE TOP OF THE OUTLET BAFFLE OR SUBMERGED PIPE, THE TANK REQUIRES CLEANING.

2. MEASURING SLUDGE DEPTH:

- WRAP 3 FEET OF WHITE TOWELLING AROUND A LONG STICK (SEE FIGURE 1 AND 2).
- PLACE THE STICK INTO THE SLUDGE, BEHIND THE OUTLET BAFFLE IF POSSIBLE.
- HOLD THE STICK THERE FOR SEVERAL MINUTES.
- REMOVE THE STICK NOTING THE SLUDGE LINE ON THE TOWELLING.
- IF THIS SLUDGE LAYER IS LESS THAN 12 INCHES BELOW THE OUTLET BAFFLE OR SUBMERGED PIPE, THE TANK REQUIRES CLEANING.



NOTE:

- IF EITHER OR BOTH OF THE CONDITIONS OF ITEMS 1d OR 2a ARE MET, THEN THE SEPTIC TANK REQUIRES PUMPING AND SANITARY DISPOSAL.
- ANNUAL PUMPING MAYBE SUBSTITUTED FOR THE MEASUREMENTS REQUIRED IN ITEMS 1 AND 2.
- PUMPING OF THE SEPTIC TANK:
 - USE A PUMP-AND-HAUL CONTRACTOR FOR THE SEPTIC TANK PUMPING AND CLEANING.
 - TO REMOVE ALL THE MATERIAL FROM THE TANK, THE SCUM LAYER MUST BE BROKEN UP AND THE SLUDGE LAYER STIRRED UP IN THE BOTTOM OF THE TANK.
 - THE TANK SHOULD BE PUMPED ONLY THROUGH THE MANHOLE.
 - FOLLOWING SEPTIC TANK CLEANING (USING WATER SPRAY), ALL INTERIOR SURFACES OF THE TANK SHOULD BE INSPECTED FOR LEAKS AND CRACKS USING A STRONG LIGHT.
 - SEPTIC TANKS PRODUCE TOXIC GASES, THEREFORE ONLY AN EXPERIENCED PERSON SHOULD ATTEMPT TO ENTER OR REPAIR A SEPTIC TANK. IF THIS SHOULD BECOME NECESSARY, THE AVERAGE HOMEOWNER SHOULD NOT ENTER A SEPTIC TANK. CONTENTS OF SEPTIC TANK SHALL BE DISCARDED INTO A STATE/COUNTY APPROVED DISPOSAL FACILITY.

ABSORPTION FIELD

- THE ABSORPTION OR LEACH FIELD IS THE SECOND MOST IMPORTANT PART OF THE INDIVIDUAL WASTE WATER SYSTEM. AS LONG AS THE MAINTENANCE OF THE SEPTIC TANK IS DONE REGULARLY, SOLIDS SHOULD NOT ENTER THE ABSORPTION FIELD.
- POSSIBLE FAILURE OR REPLACEMENT OF THE FIELD MAY OCCUR IF THE SLUDGE AND SCUM THAT ESCAPES FROM THE SEPTIC TANK ENTERS THE PERFORATED PIPES WITHIN THE LEACH FIELD.
- USE INSPECTION PORTS TO CHECK IF THERE IS ANY STANDING EFFLUENT WATER IN THE ABSORPTION BED, IF NEEDED.
- REMOVE ANY SOLIDS FROM THE DISTRIBUTION BOX ANNUALLY.

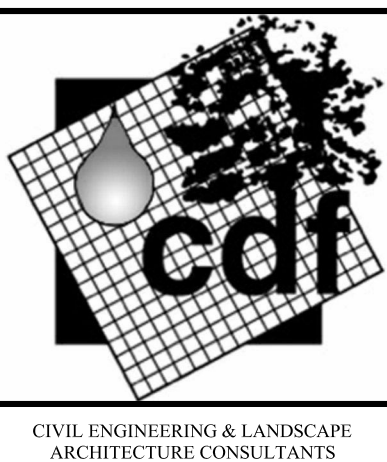
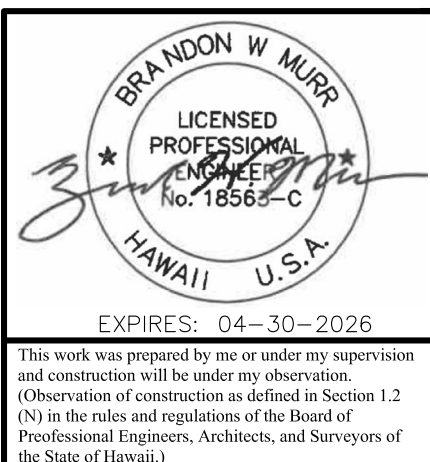
PREVENTIVE MAINTENANCE RECORDS

KEEP A RECORD OF THE MAINTENANCE OF THE SEPTIC TANK WHICH SHOULD INCLUDE THE FOLLOWING:

- DATE OF PUMPING
- DESCRIPTION OF WORK DONE
- NAME OF PUMPING CONTRACTOR
- COST OF JOB
- COMMENTS REGARDING CONDITIONS OF THE SEPTIC TANK

RECOMMENDATIONS

- INSPECT FOR SCUM AND SLUDGE DEPTH ONCE A YEAR.
- PUMP TANK AT PROPER INTERVALS.
- LIMIT WATER ENTERING SEPTIC TANK.
- PREVENT INSECTS OR RODENTS ENTERING THE TANK.
- DO NOT USE BIOLOGICAL OR CHEMICAL ADDITIVES IN THE SEPTIC TANK.
- KEEP THOROUGH MAINTENANCE RECORDS AND HAVE THEM AVAILABLE FOR INSPECTION UPON REQUEST FROM STATE HEALTH AUTHORITIES.



CDF Engineering LLC
PO Box 2985, Wailuku, HI 96793
Phone: (808) 891-2400

CALHOUN (COTTAGE) IWS
2575 AINA MAHIAI ST
LAHAINA HI 96761

Scale: **N.T.S.**

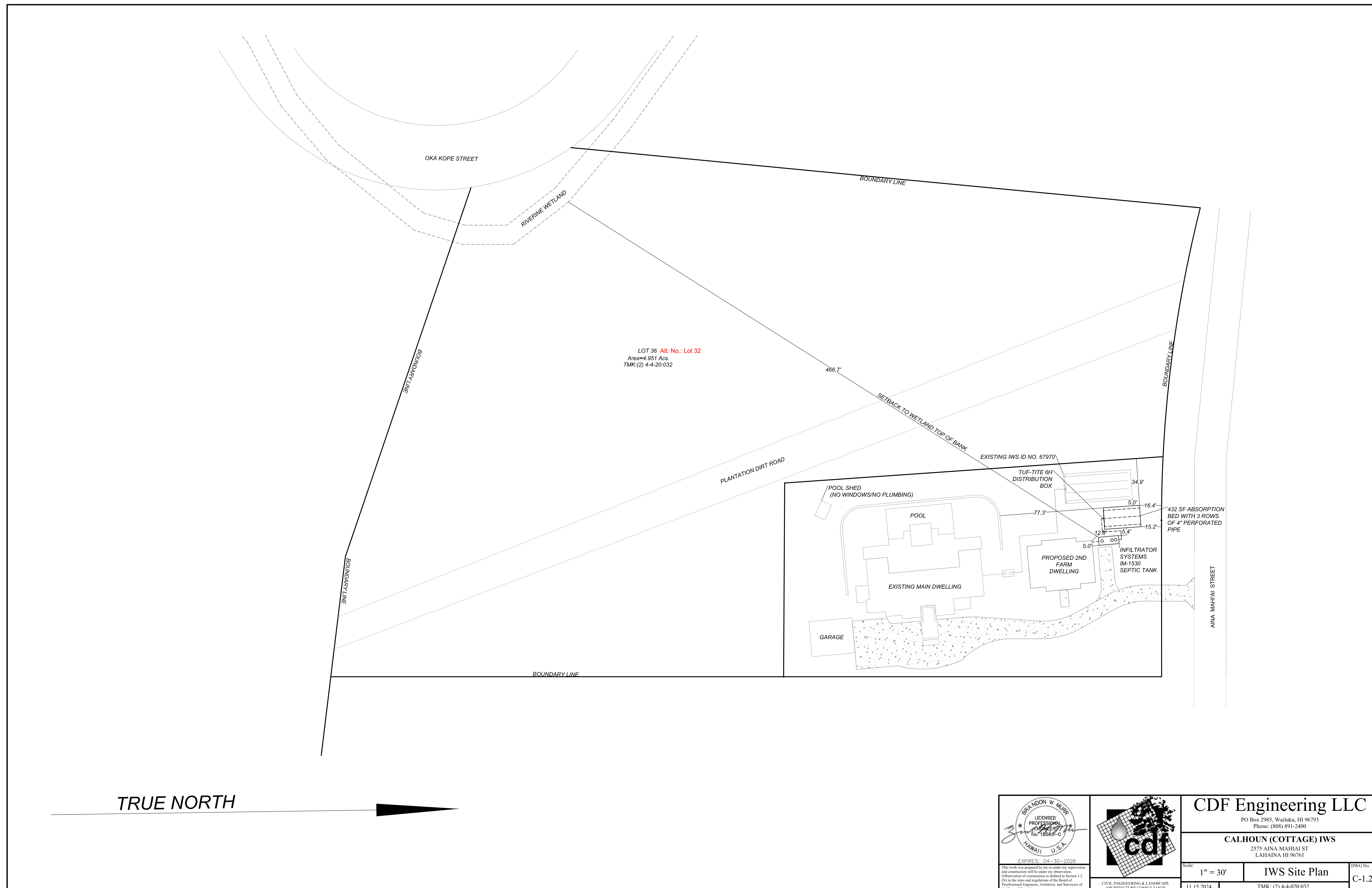
IWS Details

11.15.2024

TMK: (2) 4-4-020:032

DWG No.

C-1.1



LEGEND:

- 25--- EXISTING GRADE CONTOUR LINE
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---SILT BARRIER
--- GRADING LIMITS
DRAIN INLET
OVER LAND RUNOFF FLOW DIRECTION
2257.5' FINISHED GRADE SPOT ELEVATION
DOWNSPOUTS (TYP.)
DRAINLINE W/ SIZE & FLOW DIRECTION (MINIMUM SLOPE = 2%)
RETAINING WALL CALLOUT (NOT FOR AESTHETIC WALLS)
TOW = "RETAINED SOIL ELEVATION"
BOW = "SOIL ELEVATION AT TOE OF WALL"
IRRIGATION MAINLINE

GRADING & DRAINAGE NOTES:

1. NOT TO EXCEED ONE ACRE OF GRADING.
2. THE ALC C RECOMMENDS THE FARM DWELLING SITE (FDS) BOUNDARY CORNERS BE STAKED AND CLEARLY DELINEATED THROUGHOUT CONSTRUCTION AND PERMANENTLY WITH THE USE OF FENCING, MARKERS OR OTHER LANDSCAPE FEATURES. DOING SO WILL HELP TO IDENTIFY POTENTIALLY EXPENSIVE ENCROACHMENT ISSUES BY THE LOT OWNER AND THE FARMING TENANT.
3. FLAG OUT LIMITS OF GRADING TO APPROVAL OF INSPECTOR PRIOR TO START OF WORK.
4. GROUND STABILIZATION: TIMING OF CONTROL MEASURE IMPLEMENTATION. TIMING OF CONTROL MEASURE IMPLEMENTATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN IF SUCH PLAN IS REQUIRED. AT A MINIMUM DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE REDISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSES OR GRAVELED) BY NO LATER THAN THE FOURTEENTH DAY AFTER LAST DISTURBANCE. PER MAUI COUNTY CODE 20.08.035(G)
5. ALL POOLS AND SPAS MUST PROVIDE FOR THE RETENTION AND/OR DISPOSAL OF WATER DISCHARGE SOLELY WITHIN THE FARM DWELLING SITE AND NOT ONTO THE FARM LAND.
6. NO WORK (INCLUDING BUT NOT LIMITED TO EARTH DISTURBING WORK, AND WORK FOR WALL FOOTINGS) SHALL BE DONE ON THE SUBJECT LOT OUTSIDE OF THE FARM DWELLING LIMITS, WHICH SHALL BE MARKED OFF PRIOR TO THE START OF CONSTRUCTION BY A SURVEYOR.

EXISTING GRADES:

1. EXISTING GRADES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH GRADING WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED IN THE EXISTING GRADES OR DIMENSIONS GIVEN ON THE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER BEFORE PROCEEDING FURTHER WITH ANY WORK, OTHERWISE HE WILL BE HELD RESPONSIBLE FOR ANY COST INVOLVED IN CORRECTION OF CONSTRUCTION PLACED DUE TO SUCH DISCREPANCIES.

EXISTING UTILITIES:

1. THE LOCATION, DEPTH AND TYPE OF THE VARIOUS EXISTING UTILITY LINE SHOWN ON THE CONSTRUCTION PLANS WERE DETERMINED ON THE BASIS OF THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY EXACT LOCATION, DEPTH AND TYPE PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE EXISTING UTILITIES AS SHOWN ON THE CONSTRUCTION PLANS AND IN GROUND AND NOT PROCEED WITH ANY FURTHER WORK UNTIL WRITTEN NOTIFICATION IS RECEIVED FROM THE ENGINEER.
3. ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON PLANS, IF DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, SHALL BE REPAIRED SOLELY AT HIS EXPENSE.

EROSION CONTROL AND BMP IMPLEMENTATION NOTE:

1. TIMING OF CONTROL MEASURE IMPLEMENTATION. TIMING OF CONTROL MEASURE IMPLEMENTATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN IF SUCH PLAN IS REQUIRED. AT A MINIMUM DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE REDISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSES OR GRAVELED) BY NO LATER THAN THE FOURTEENTH DAY AFTER LAST DISTURBANCE. PER MAUI COUNTY CODE 20.08.035(G)

IN THE UNLIKELY EVENT THAT SUBSURFACE HISTORIC RESOURCES, INCLUDING HUMAN SKELETAL REMAINS, STRUCTURAL REMAINS, CULTURAL DEPOSITS, ARTIFACTS, SAND DEPOSITS, OR SINKHOLES ARE IDENTIFIED DURING THE DEMOLITION AND/OR CONSTRUCTION WORK, CEASE WORK IN THE IMMEDIATE VICINITY OF THE FIND, PROTECT THE FIND FROM ADDITIONAL DISTURBANCE, AND CONTACT THE STATE HISTORIC PRESERVATION DIVISION AT (808) 652-1510

GROUND STABILIZATION NOTE:

1. TIMING OF CONTROL MEASURE IMPLEMENTATION. TIMING OF CONTROL MEASURE IMPLEMENTATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN IF SUCH PLAN IS REQUIRED. AT A MINIMUM DISTURBED AREAS OF CONSTRUCTION SITES THAT WILL NOT BE REDISTURBED FOR TWENTY-ONE DAYS OR MORE WILL BE STABILIZED (GRASSES OR GRAVELED) BY NO LATER THAN THE FOURTEENTH DAY AFTER LAST DISTURBANCE. PER MAUI COUNTY CODE 20.08.035(G)

GRADING QUANTITIES
LIMITS OF DISTURBANCE = 8,590 SF
VOLUME OF CUT = 220 CY
VOLUME OF FILL = 70 CY
MAX HEIGHT CUT = 6.0'
MAX HEIGHT CUT = 5.0'
*QUANTITIES INCLUDE AREA UNDER BUILDINGS AND ARE ESTIMATED IN-PLACE VOLUMES.

ABOVE GROUND RETENTION AREA
(SEE DETAIL, SHEET C-4)
VOLUMETRIC CAPACITY = 2,825 CF
WATER SURFACE ELEV. = 373.5'
BASIN INVERT ELEV. = 370.0'
*MAX SLOPE 3:1 (H:V)

DIRT ROAD

FARM DWELLING BOUNDARIES

SEE INSET ON C-3
ALTERNATE VIEW

EXISTING
ABSORPTION FIELD

PROPOSED
ABSORPTION FIELD

PROPOSED SEPTIC
TANK

PROPOSED MAIN
DWELLING (SEPARATE
PERMIT)

PROPOSED DWELLING
(1.0.5 = 377.50')

IRRIGATION POC
AND MAINLINE

EXISTING SEPTIC TANK

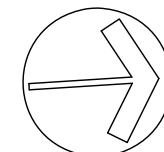
12" OUTLET STRUCTURE W/ GRP SLOPE PROTECTION
(SEE DETAIL, SHEET C-4)
INVERT = 373.0'

NEW DOWNSPOUT TO GRADED INLET #4
TOP ELEV. = 376.8'
INVERT = 373.4'

NEW DOWNSPOUT TO GRADED INLET #3
TOP ELEV. = 376.8'
INVERT = 373.9'

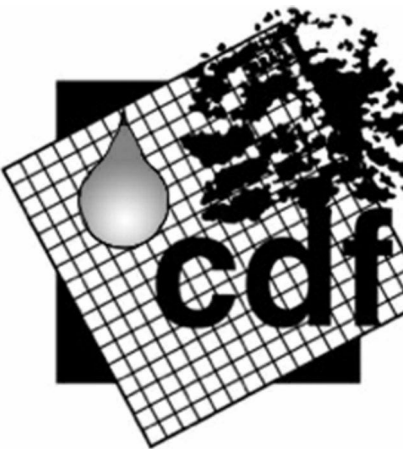
NEW DOWNSPOUT TO GRADED INLET #1
TOP ELEV. = 376.8'
INVERT = 374.8'

NEW DOWNSPOUT TO GRADED INLET #2
TOP ELEV. = 376.8'
INVERT = 374.3'



GRADING & DRAINAGE PLAN
SCALE: 1" = 30'

0 30 60 Feet



270 HOKUKAHI STREET, SUITE 301
WAILUKU, HAWAII 96793
808-891-2400



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OR UNDER MY SUPERVISION AND
CONSTRUCTION OF THIS PROJECT
WILL BE UNDER MY OBSERVATION.
EXPIRATION DATE OF LICENSE 4/30/26

CALHOUN RESIDENCE
GRADING, DRAINAGE & EROSION CONTROL

2575 AINA MAHIAI ST.
LAHAINA, MAUI, HAWAII
T.M.K. (2) 4-4-020-032

Revisions: By:

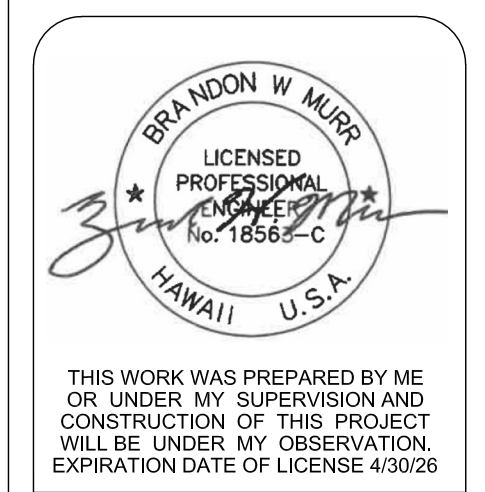
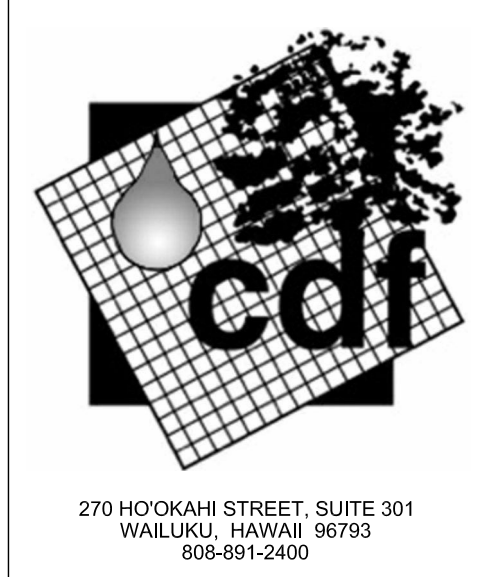
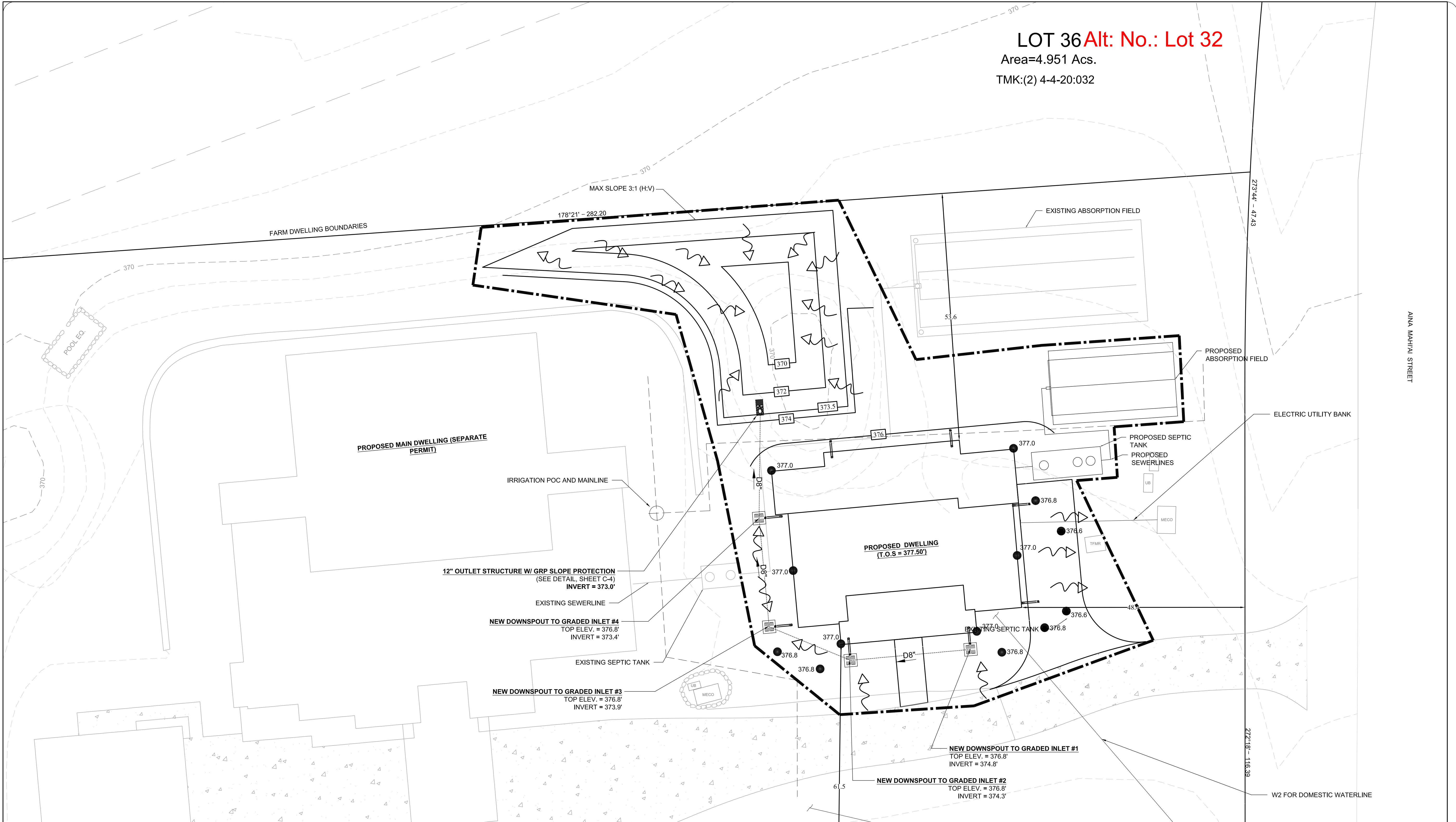
GRADING & DRAINAGE
PLAN

Date: MAY 16, 2025
Phase: PERMIT SET

Drawn: HTH
Job: CALHOUN

Sheet Number:
C-2

2 OF 4 SHEETS

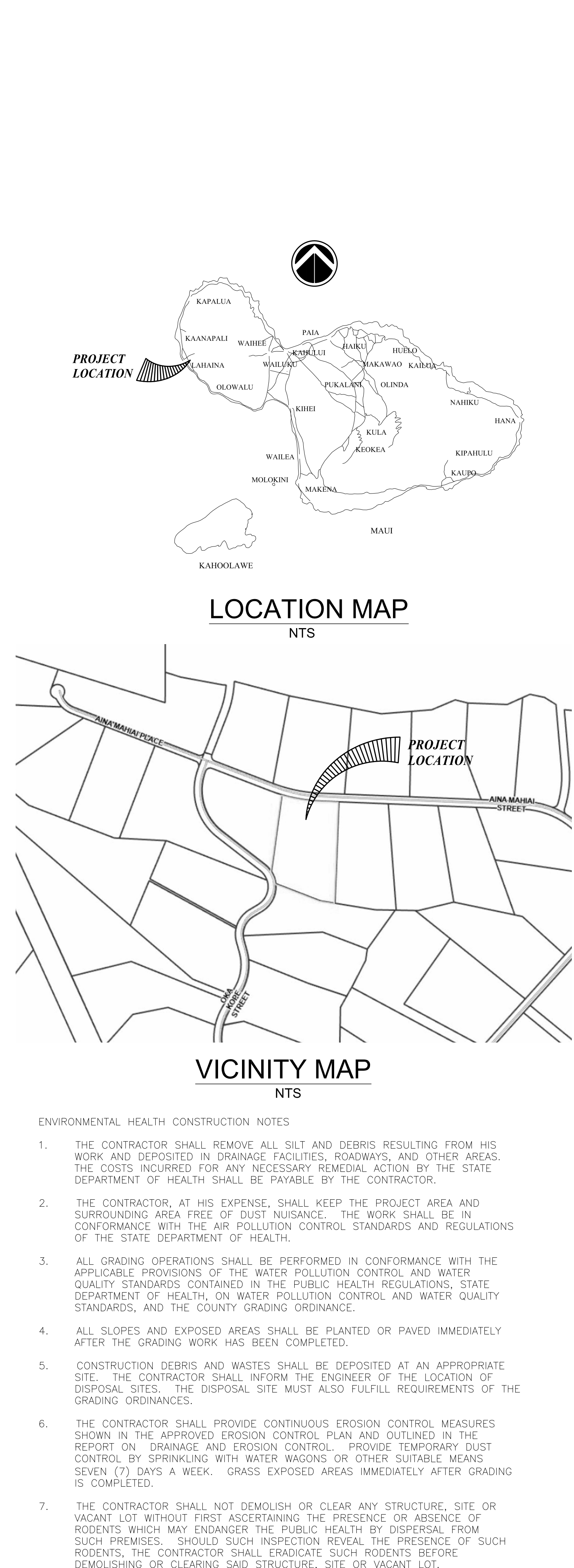
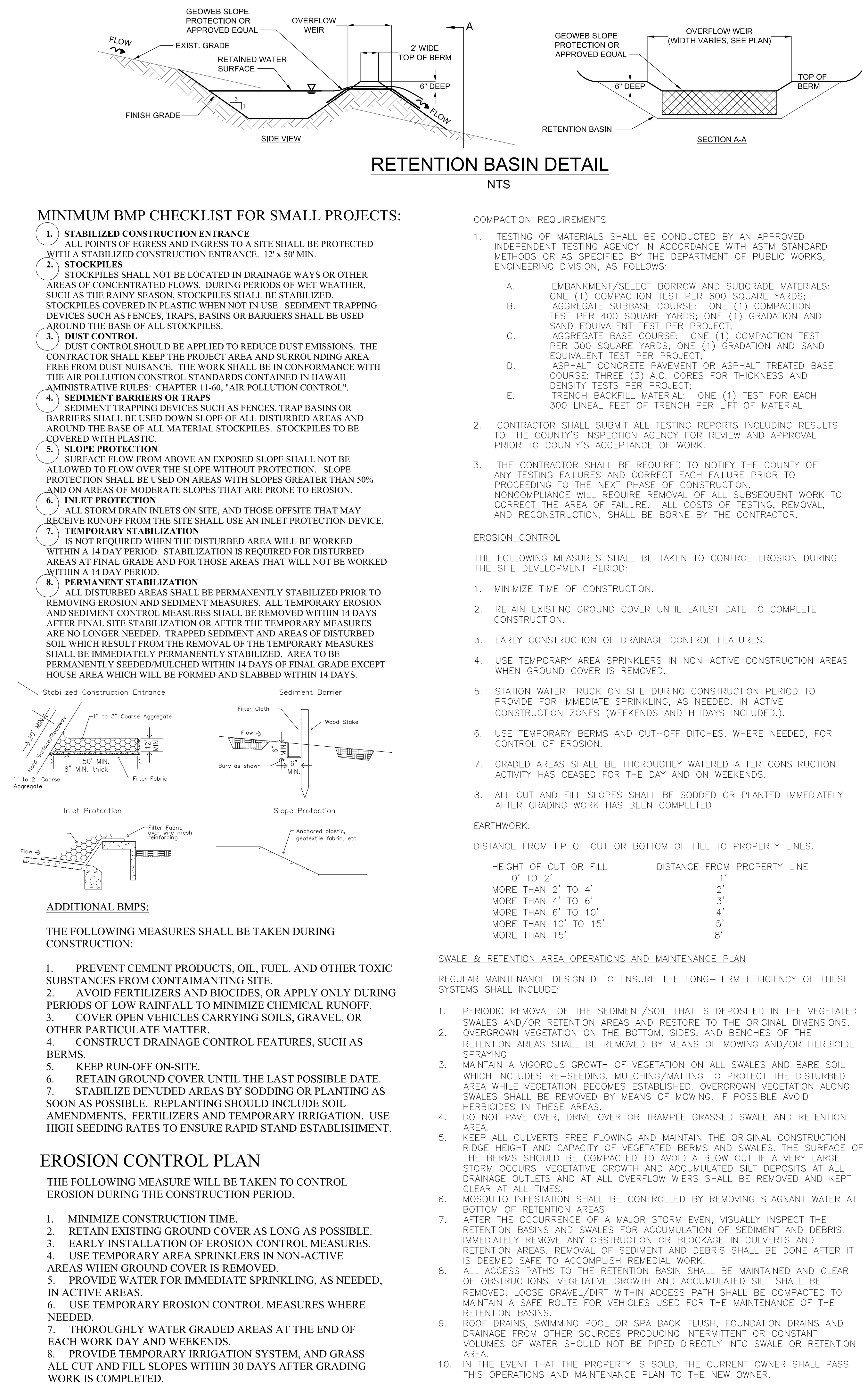
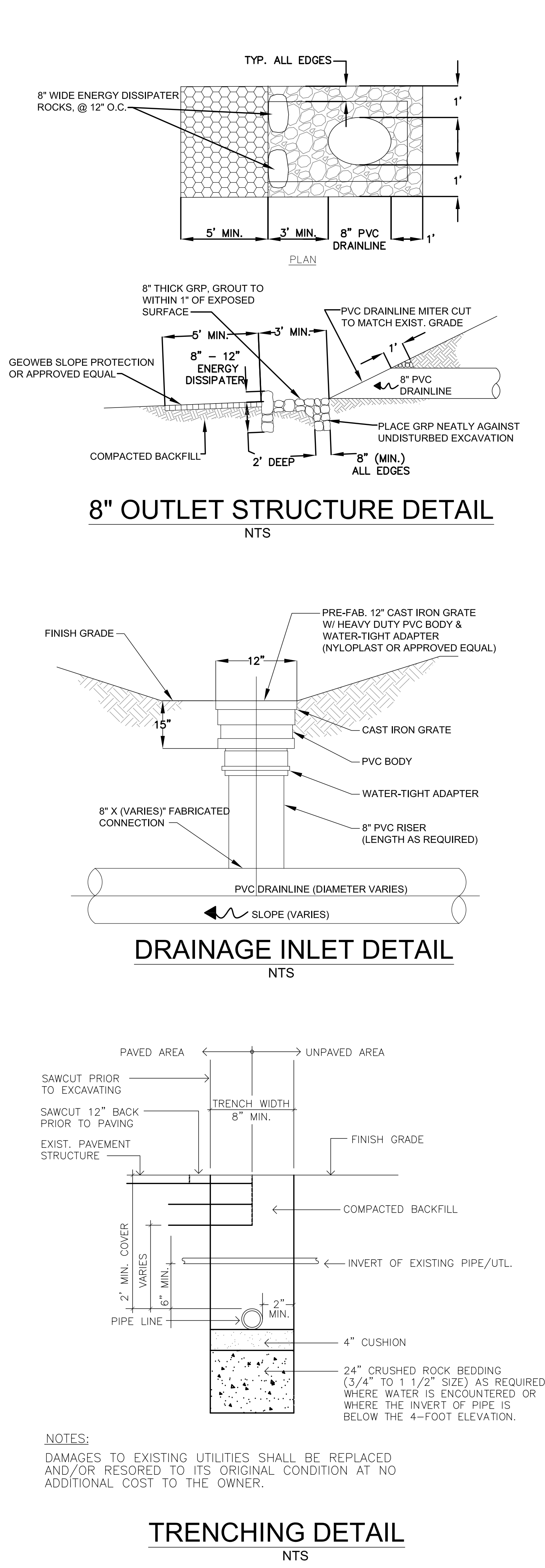


CALHOUN RESIDENCE
GRADING, DRAINAGE & EROSION CONTROL
2575 AINA MAHIAI ST.
LAHAINA, MAUI, HAWAII
T.M.K. (2) 4-4-020:032

Revisions:	By:

GRADING & DRAINAGE PLAN

Date:	MAY 16, 2025
Phase:	PERMIT SET
Drawn:	HTH
Job:	CALHOUN
Sheet Number:	C-3
3 OF 4 SHEETS	



270 HOKUKAH STREET, SUITE 301
WAILUKU, HAWAII 96793
808-891-2400

BRADNOON W. MAIERS
LICENSED PROFESSIONAL ENGINEER
No. 10867
HAWAII U.S.A.

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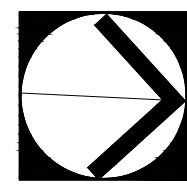
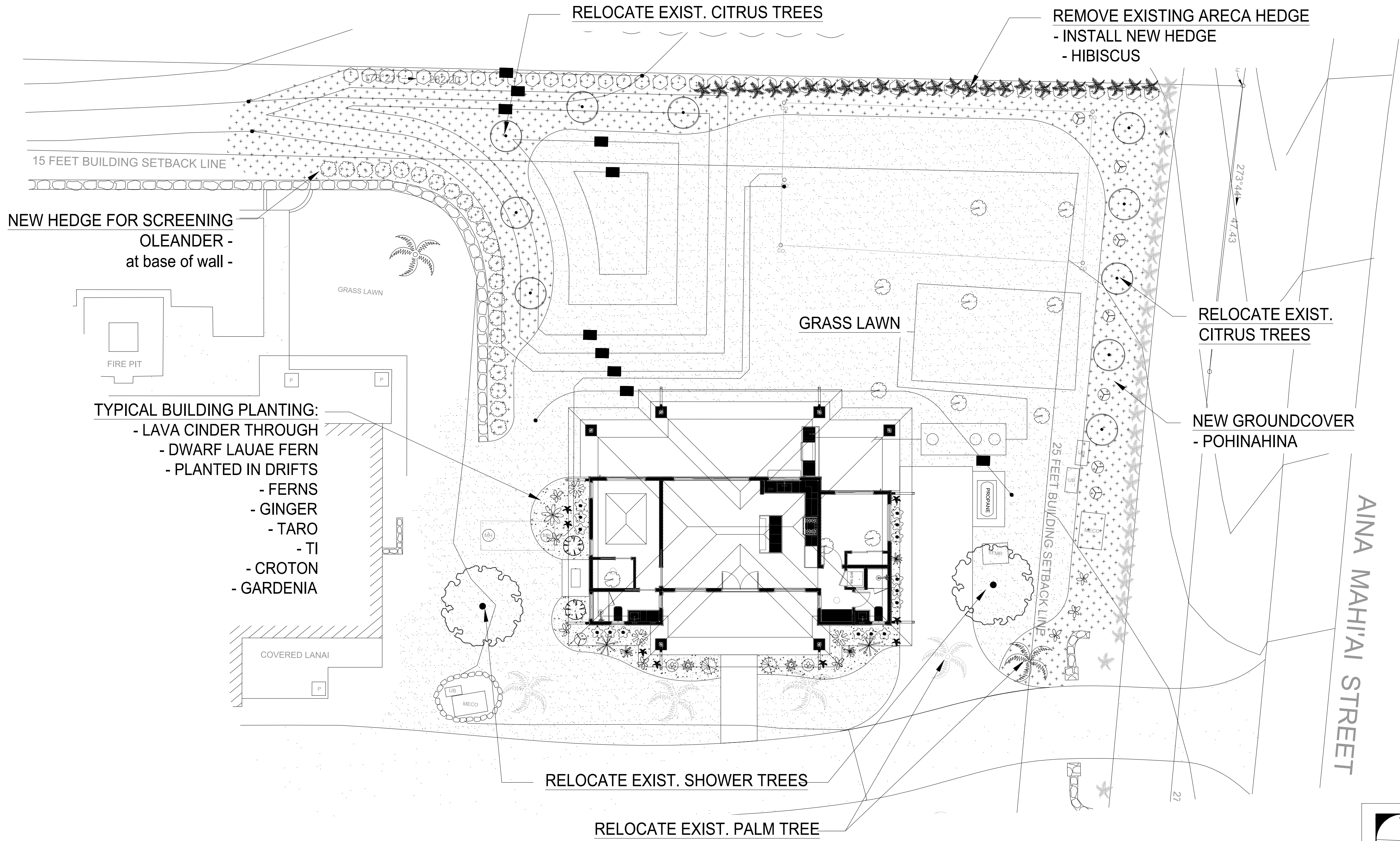
CALHOUN RESIDENCE
GRADING, DRAINAGE & EROSION CONTROL

2575 AINA MAHAII ST.
LAHAANA, MAUI, HAWAII
T.M.K. (2) 4-4-020:032

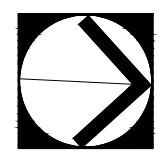
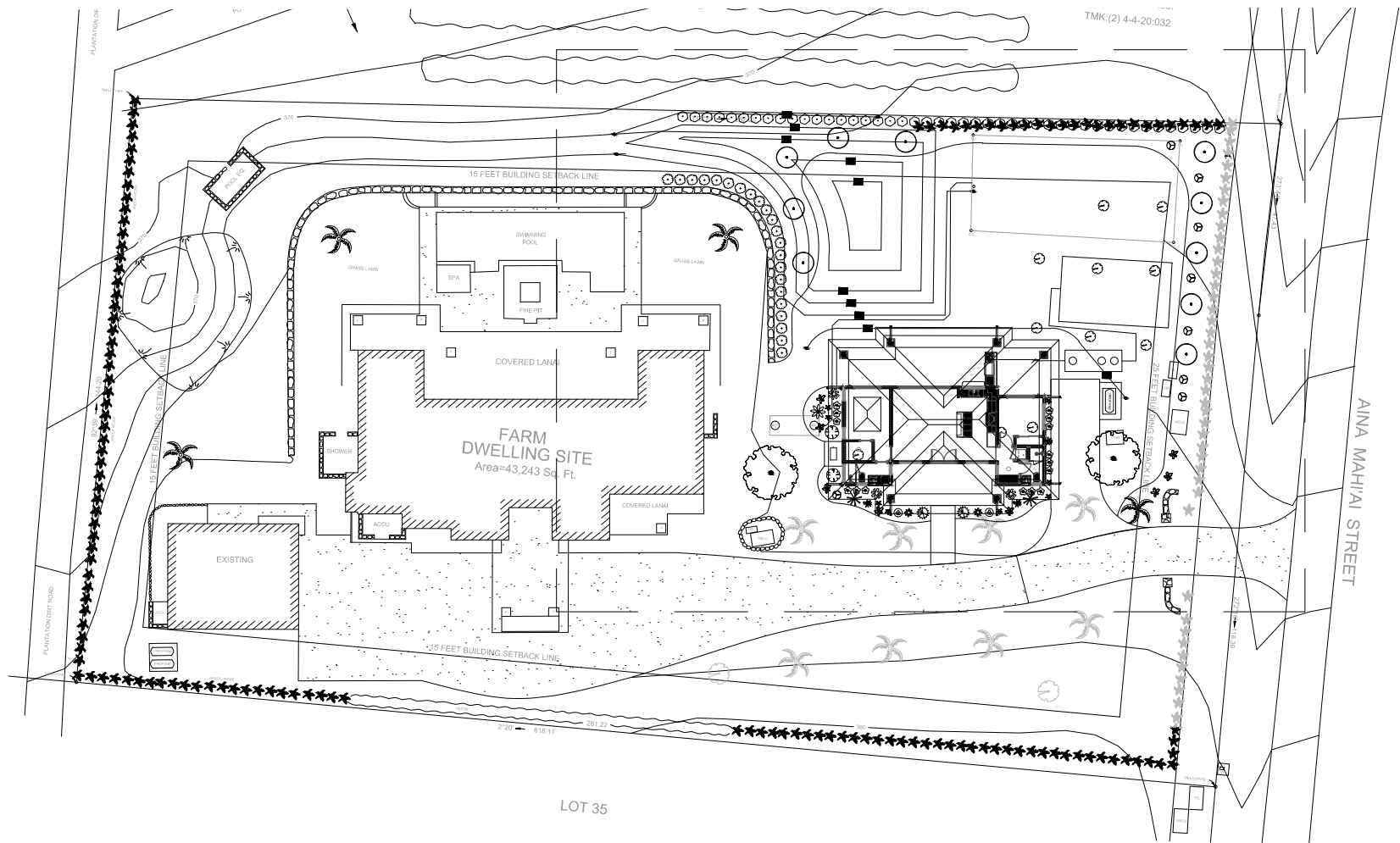
Revisions:	By:

GENERAL CONSTRUCTION NOTES & DETAILS

Date: MAY 16, 2025
Phase: PERMIT SET
Drawn: HTH
Job: CALHOUN
Sheet Number: C-4
4 OF 4 SHEETS



PLANTING PLAN
scale: 1" = 10'-0"



OVERALL PLAN
scale: 1" = 40'-0"

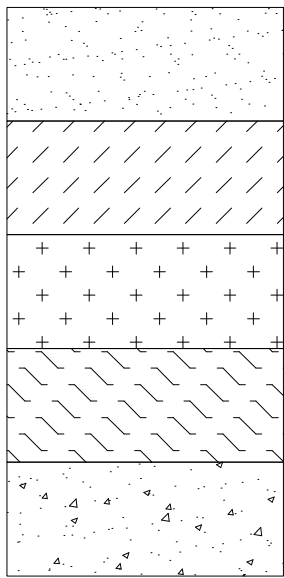
PLANTING LEGEND:

- TREES**
- SHOWER TREE - existing...relocate
 - SINGAPORE PLUMERIA
 - DWARF PLUMERIA

- PALMS - OTHERS**
- RHAPIS PALM
 - PIGMY DATE PALM
 - PAPAYA
 - CITRUS - Lemon, Lime

- SHRUBS**
- RED GINGER
 - RED & GREEN TI
 - CROTON
 - GARDENIA
 - HIBISCUS - Yellow, Red

- GROUNDCOVERS**
- HEAVENLY BAMBOO
 - TARO...small varieties
 - FERNs...various species
 - PHILODENDRON



- GROUNDCOVERS**
- ZOYSIA 'EL TORO' GRASS
 - ARROWHEAD VINE
 - POHINAHINA
 - DWARF LAUAE FERN
 - BLACK LAVA CINDER

K. TANAKA
LANDSCAPE
ARCHITECT

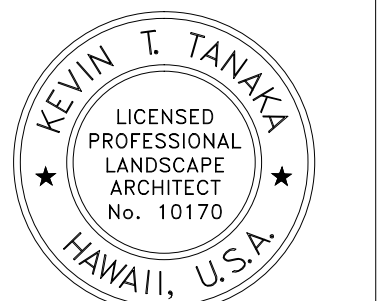
468 Polulani Dr.
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96793

(808) 243-9494
ktanaka001@hawaii.rr.com

Calhoun Residence

Kaanapali Coffee Farms Lot 32
Lahaina HI 96761

TMK: (2) 4 - 4 - 020 : 032



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OF THIS PROJECT WILL BE UNDER
MY SUPERVISION.

Kevin I. Tanaka
Signature Expires 04-30-26

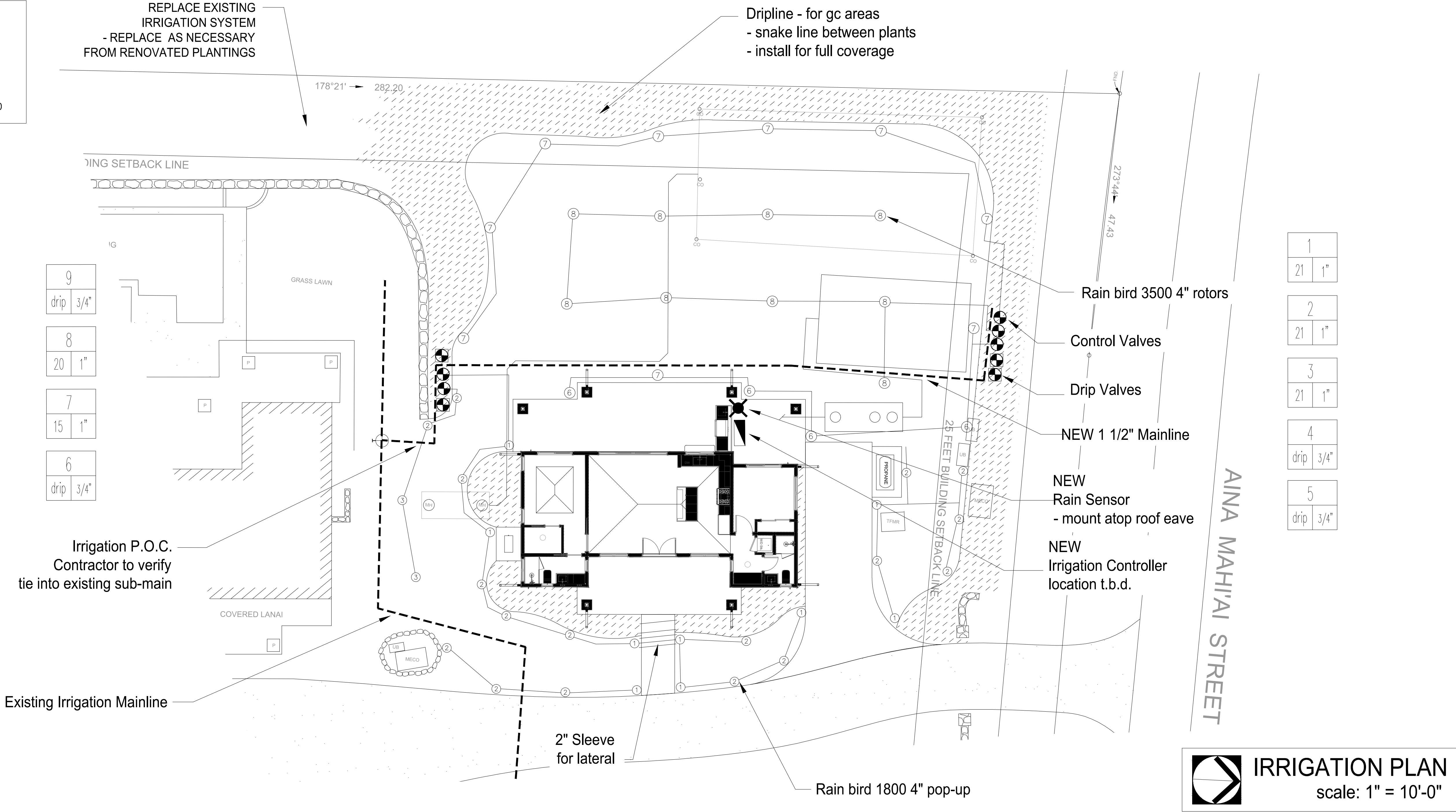
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Designed by KT
Drawn by KT
Checked by KT
Date November 2024
File No. 24-021

SHEET
L-1
1 of 4 sheets

FOR ASSOCIATION REVIEW - NOT FOR CONSTRUCTION

PIPE SIZING:			
- 3/4", 1", 1 1/4", & 1 1/2" FOR LATERAL LINES			
- 2" MAIN LINE			
- FOLLOW CORRESPONDING SIZING:			
- 10 gpm = 3/4"	12 heads - 1800	3 heads - 3500	
- 16 gpm = 1"	24 heads - 1800	5 heads - 3500	
- 26 gpm = 1 1/4"	36 heads - 1800	8 heads - 3500	
- 35 gpm = 1 1/2"		11 heads - 3500	



NOTES:

- SLEEVE TO DRIVEWAY AND ENTRY WALK FOR IRRIGATION LINES
- IRRIGATION LINES ARE DIAGRAMMATIC, INSTALL WITHIN LANDSCAPED AREAS
- BURY DRIPLINES THROUGH CINDER/GRAVEL AREAS
- IRRIGATION P.O.C. TIE IN AFTER WATER METER
- INSTALL BACKFLOW PREVENTER
- HIDE WITH PLANTINGS

- ALL BUILDING PLANTINGS TO BE WATERED BY DRIPLINES
- SNAKE LINES BETWEEN PLANTINGS FOR FULL COVERAGE
- ADD 'MICRO-SPRAYS' AS NECESSARY FOR COVERAGE
- ALL LAWN AREAS TO BE WATERED BY POP UP SPRINKLERS & ROTORS
- INSTALL GATE VALVES AT ALL "T"'s IN MAINLINE

IRRIGATION LEGEND:

- IRRIG.EQUIPMENT
- PVC SLEEVE
 - 1 1/2" sch. 40 PVC MAINLINE
 - RAINBIRD CONTROL VALVE
 - RAINBIRD DRIP VALVE
 - GATE VALVE - line size
 - RAINBIRD CONTROLLER - location tbd
 - RAINBIRD - 'Rain-Check' sensor - mount top of roof eave

- DRIP IRRIGATION
- Rainbird Dripline Tubing
 - Snake line thru plant material
 - install as for full coverage
 - Bury all lines under cinder
- IRRIG. HEADS
- 1 2 3 Rain Bird - 1800 pop-up sprays, 15' radius
 - 4 5 Rain Bird - 1800 po-up side strip sprays
 - 6 7 8 Rain Bird - 3500 pop-up Rotors, 25' spray

K. TANAKA
LANDSCAPE
ARCHITECT

468 Polulani Dr.
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Calhoun Residence

Kaanapali Coffee Farms Lot 32
Lahaina HI 96761
TMK: (2) 4 - 4 - 020 : 032



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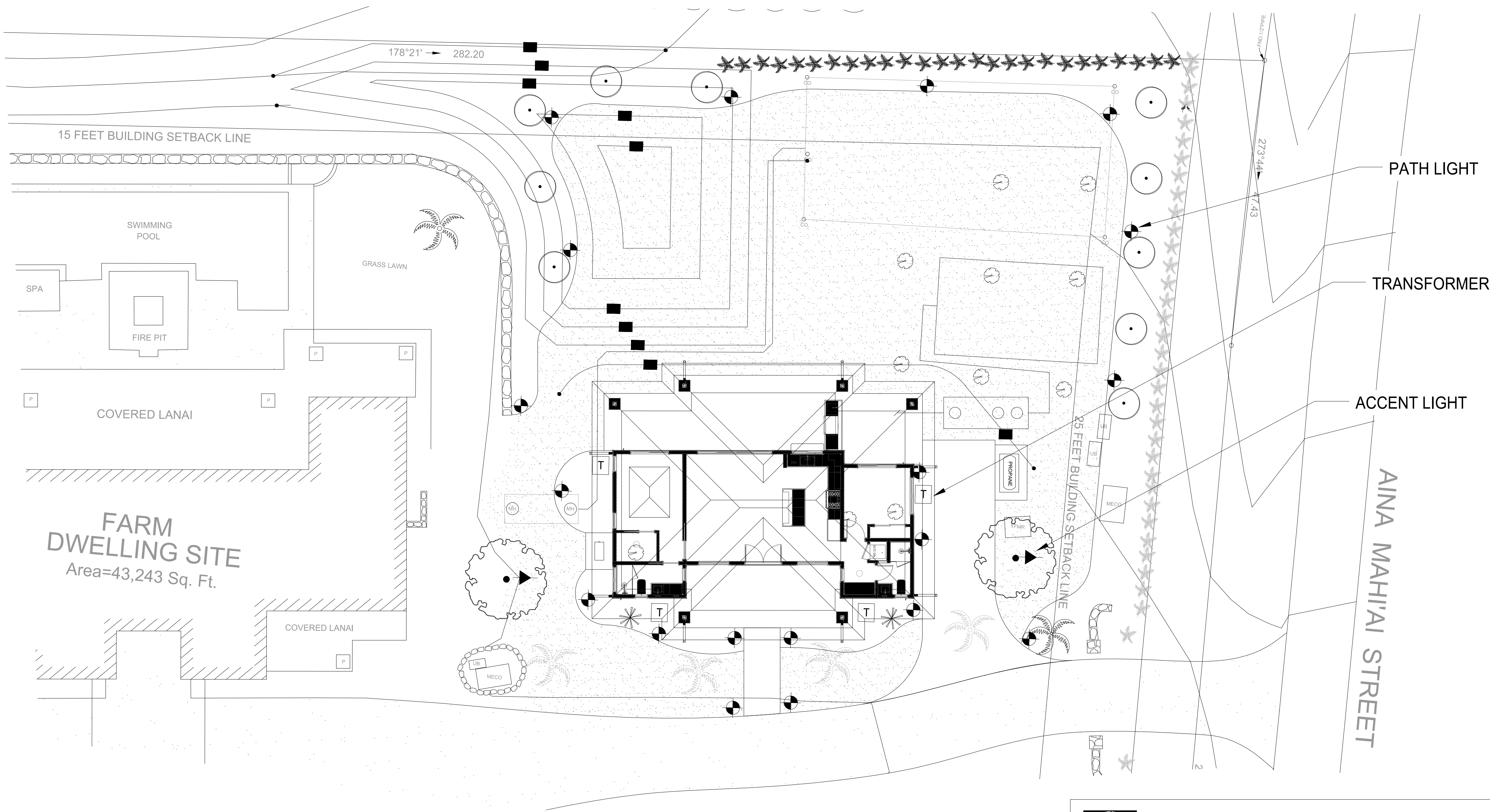
Signature: Kevin T. Tanaka
Expires 04-30-26

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Designed by KT
Drawn by KT
Checked by KT
Date November 2024
File No. 24-021

SHEET
L-2

2 of 4 sheets



 **CONCEPTUAL LANDSCAPE LIGHTING PLAN**
scale: 1" =10'-0"

NOTES:

ALL LIGHTING FIXTURES
SHALL BE SHEILDED
- light source shall not be visible
from public r.o.w. and other
line of sight lots/adjacent lots.
- lighting to be directed downward
- lighting to be indirect

ALL TRANSFORMERS SHALL
BE HIDDEN WITH PLANTINGS


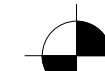


ALL WIRING TO BE DIRECT BURY

WIRE RUNS ARE DIAGRAMMATIC
- RUN LINES IN LANDSCAPE

ALL MATERIALS SHALL BE
INSTALLED AS PER
MANUFACTURERS SPECS.

LIGHTING LEGEND

LED - 'or equal'

-  ACCENT 12-V.
-  PATHLIGHT 12-V.
-  TRANSFORMER
-  PVC SLEEVING

*** LED Replacement - 'or equal'**

MANUFACTURER PRODUCTS:

Pathlight
- 12 volt FX - RSL G-20, 20-Watt Bulbs

Accent
- 12 volt FX - RSL F-450, 50-Watt Bulbs

Transformer 12-volt, with timer
- to be coordinated
with ELECTRICAL CONTRACTOR

Install regulators at each fixture
to maximize 12V efficiency.

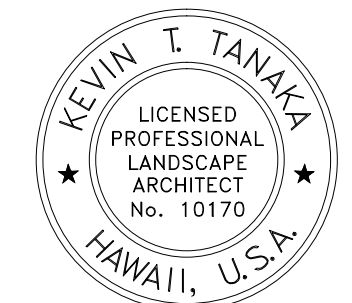
K. TANAKA
LANDSCAPE
ARCHITECT

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OF THIS PROJECT WILL BE UNDER
MY SUPERVISION


Signature Expires 04-30-26

- 1 -
- 2 -
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Designed by KT

Drawn by KT

Checked by KT

Date November 2024

File No. 24-021

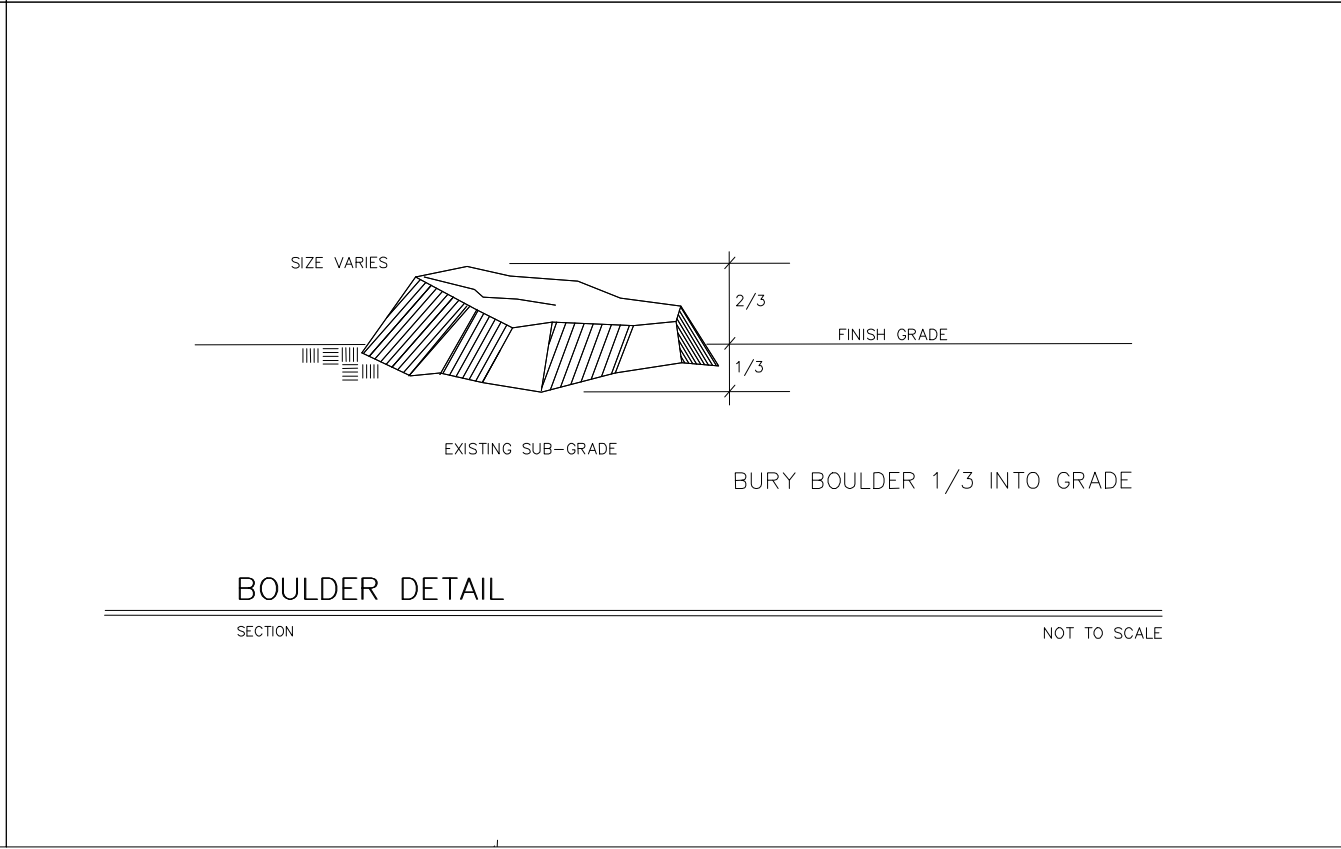
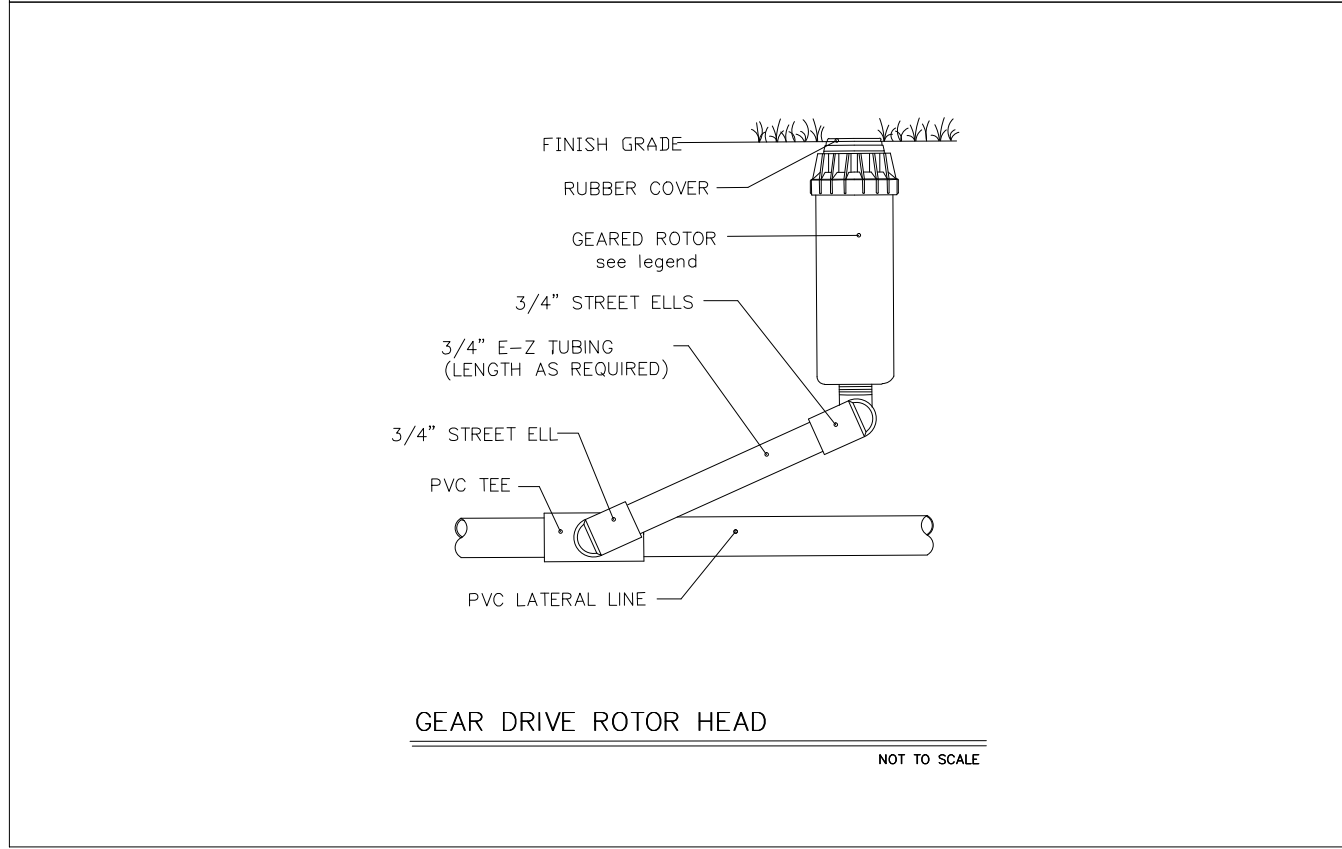
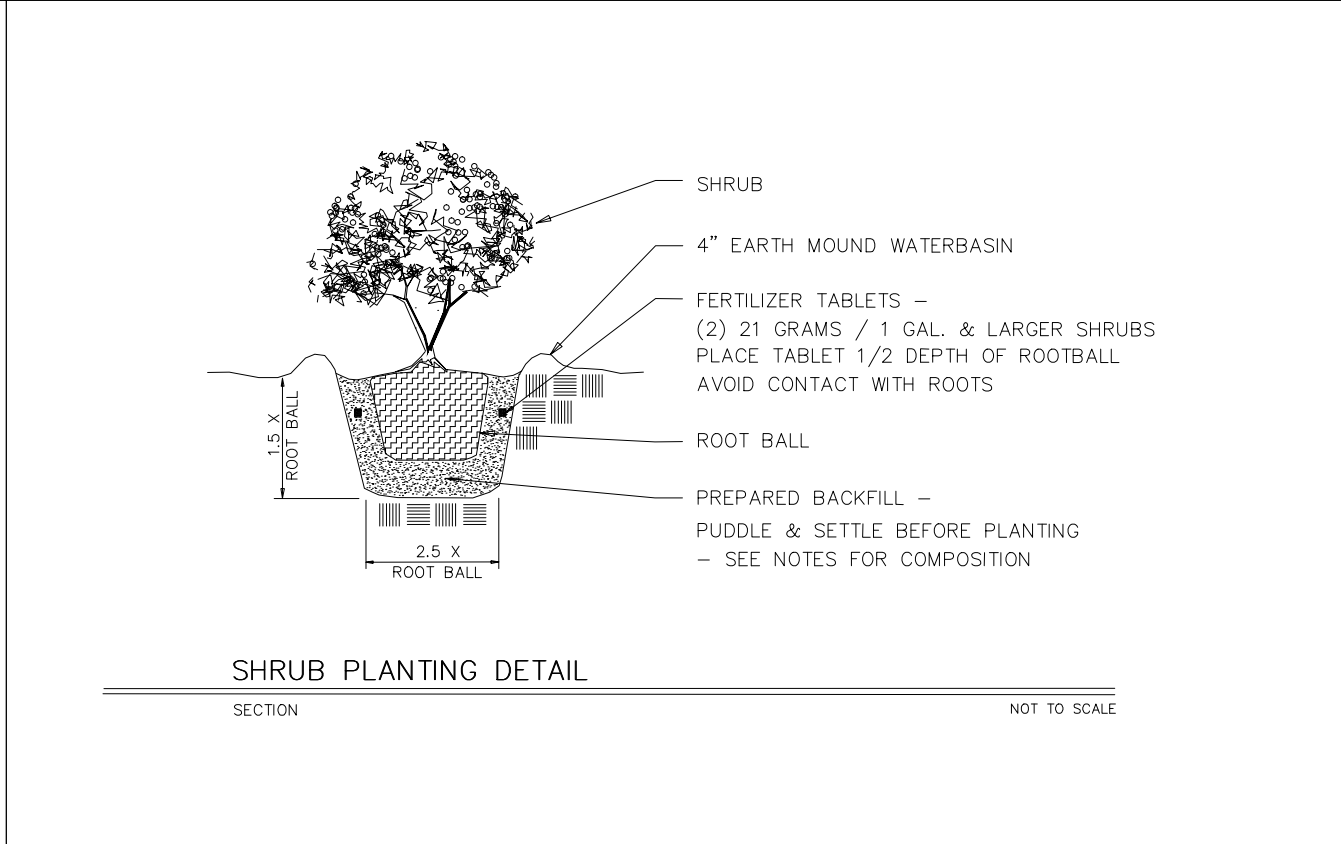
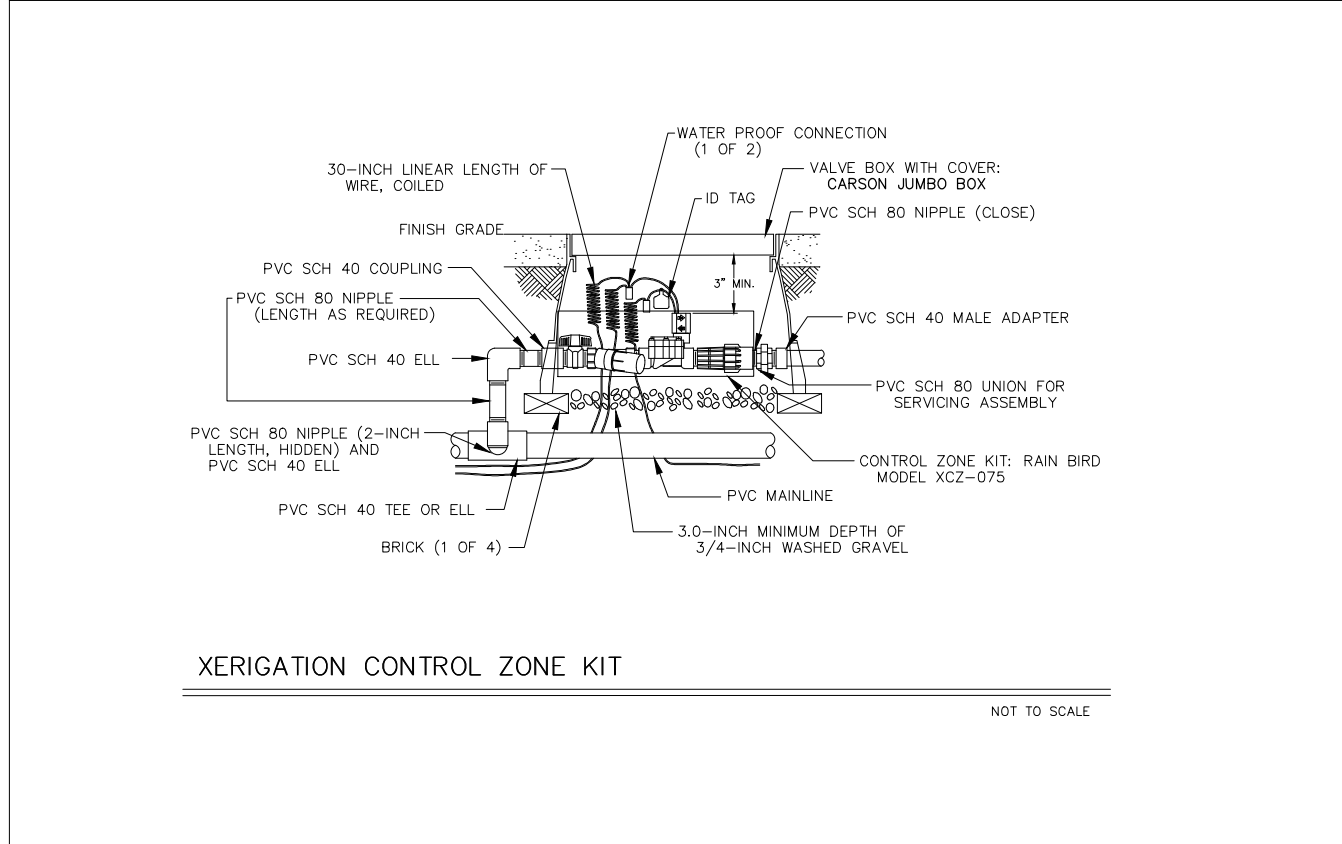
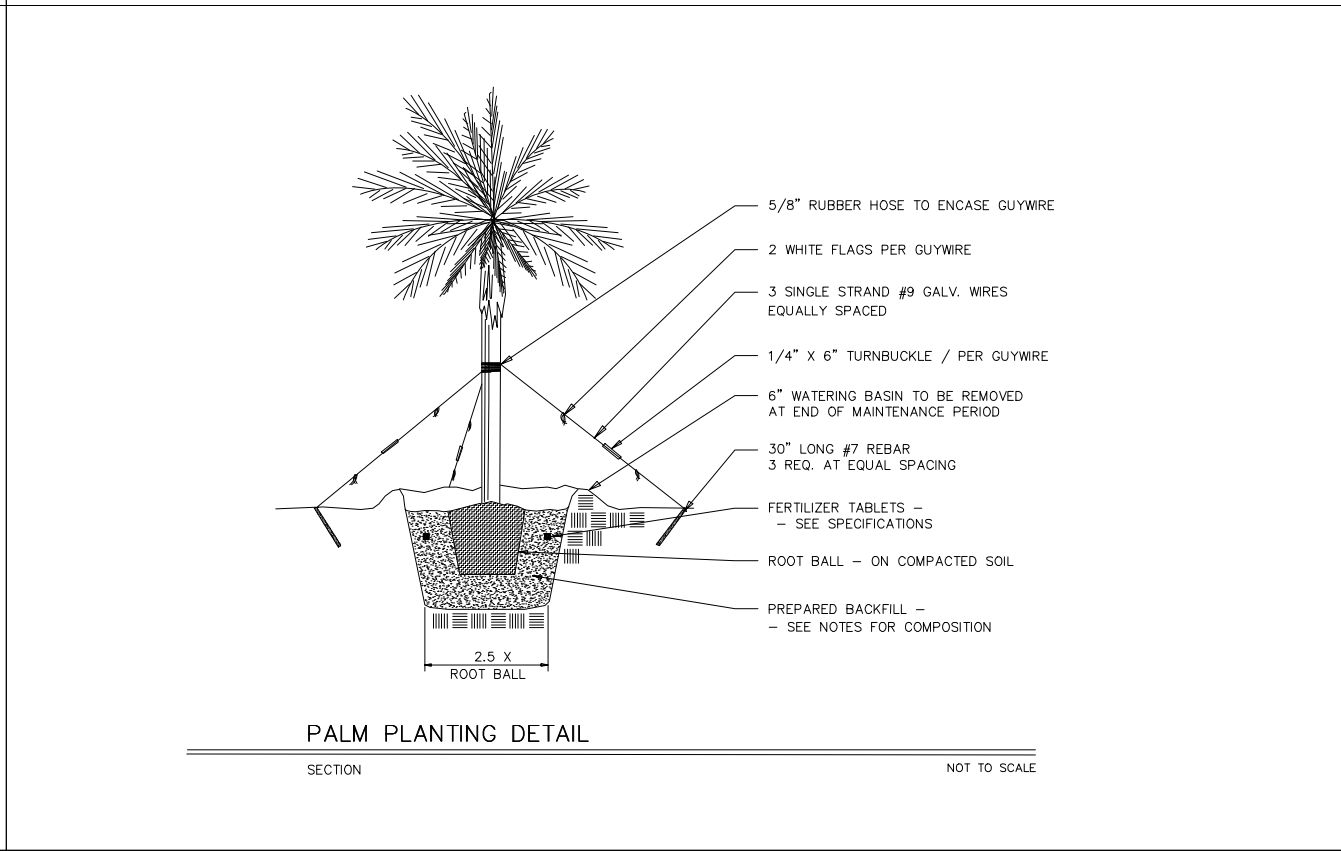
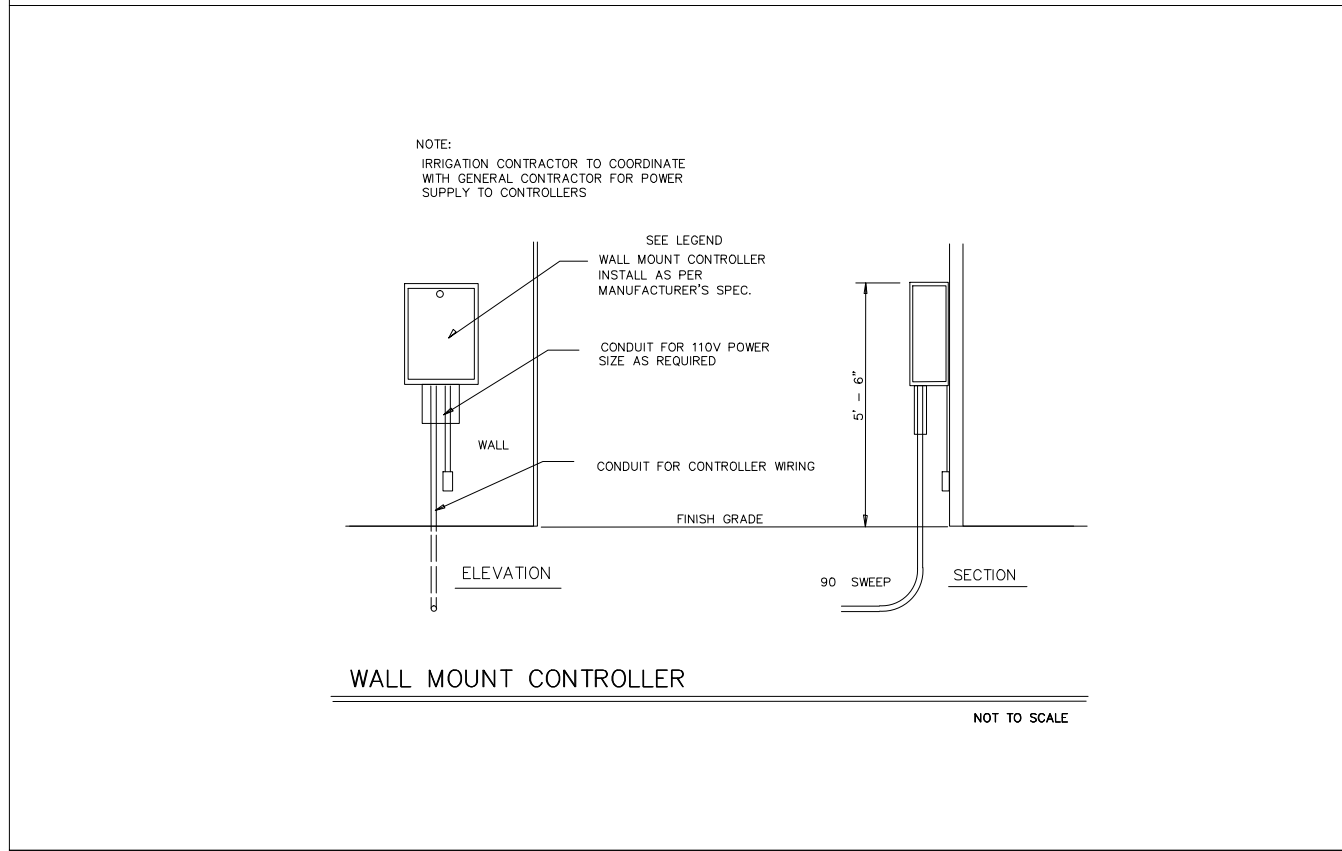
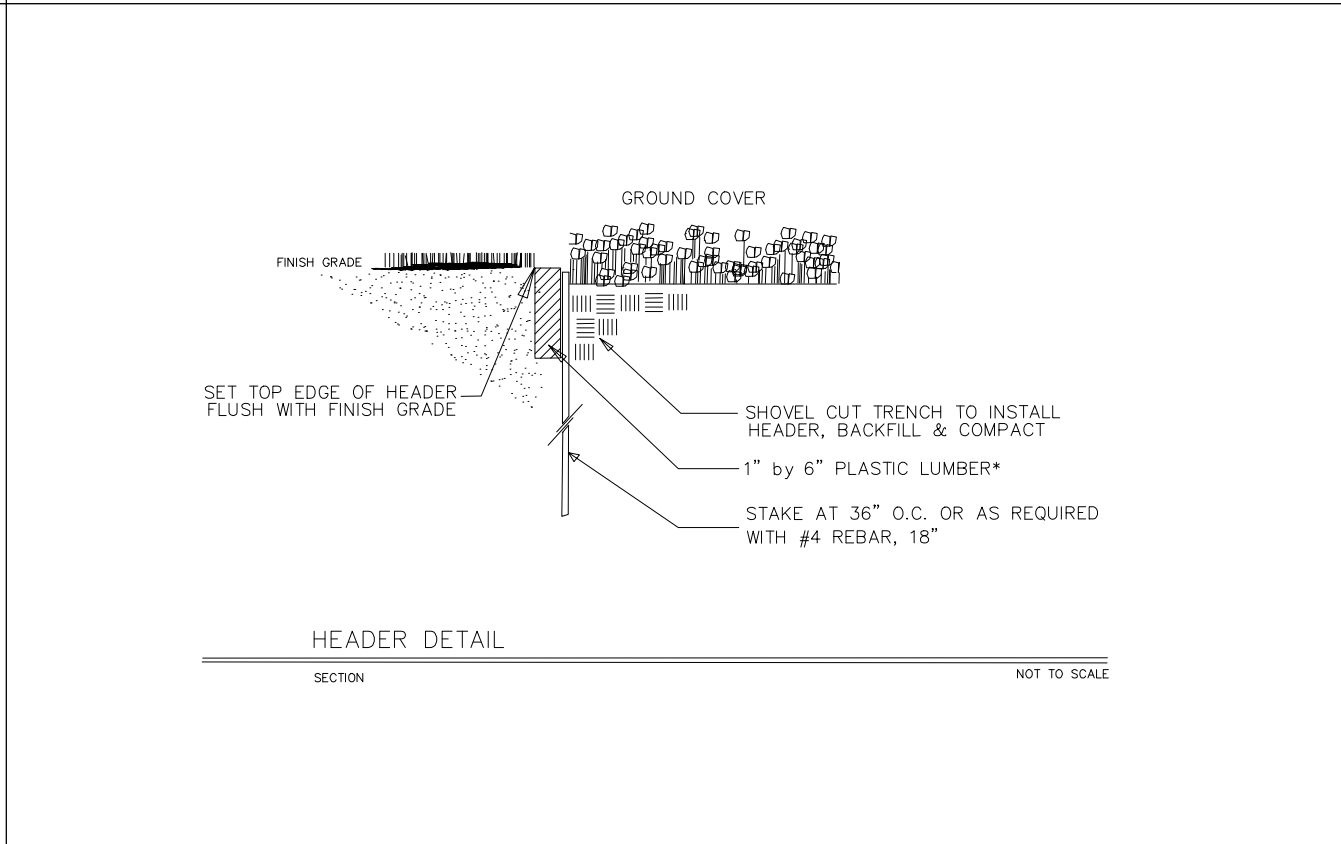
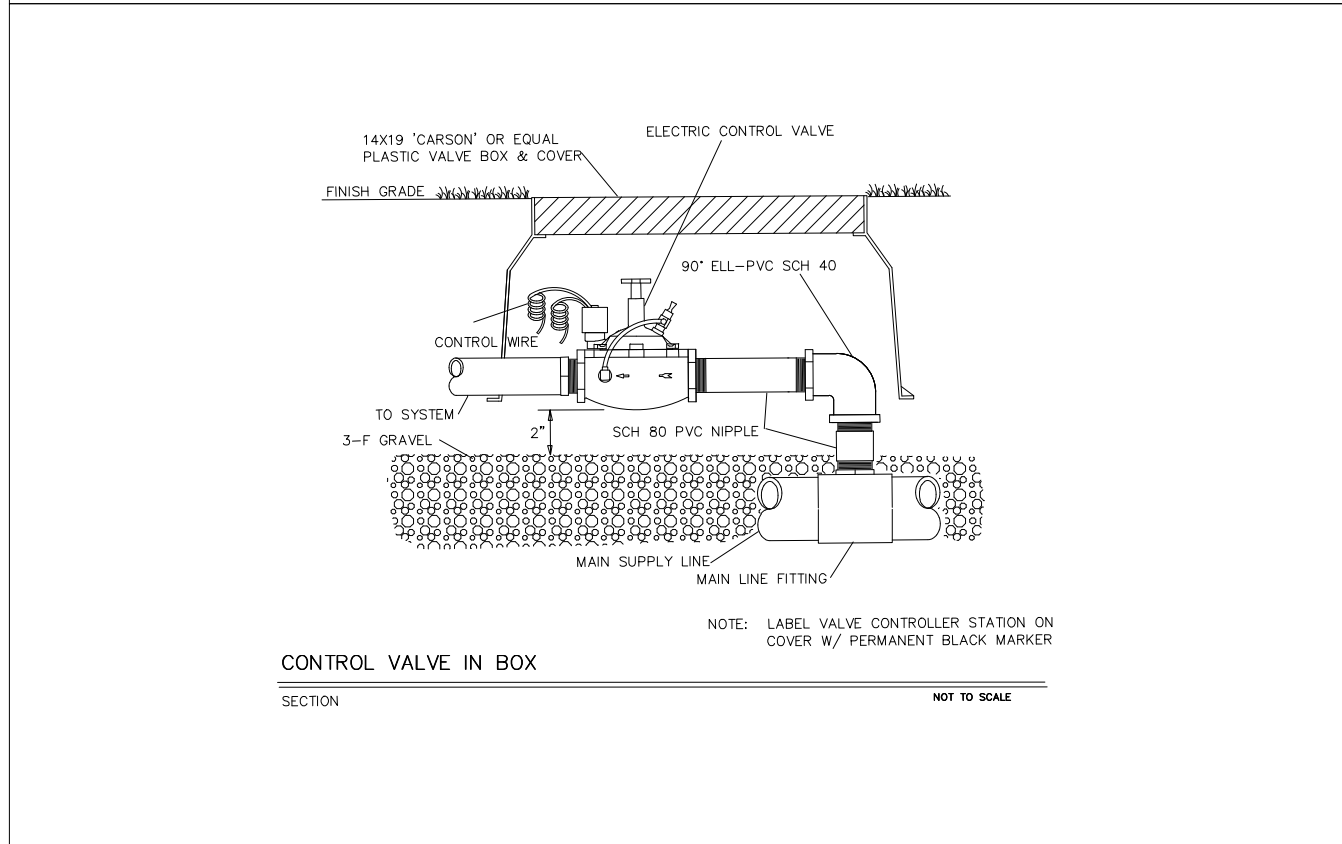
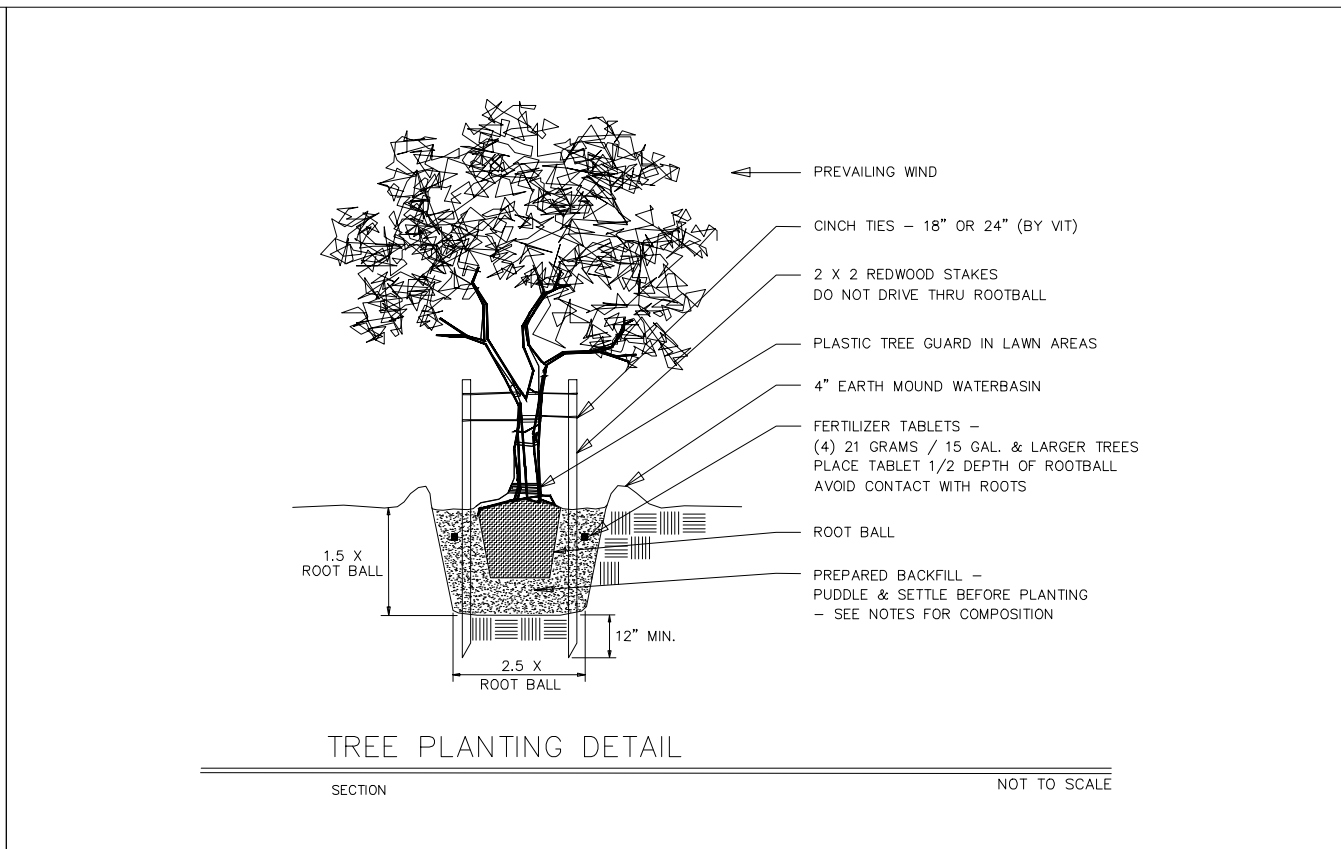
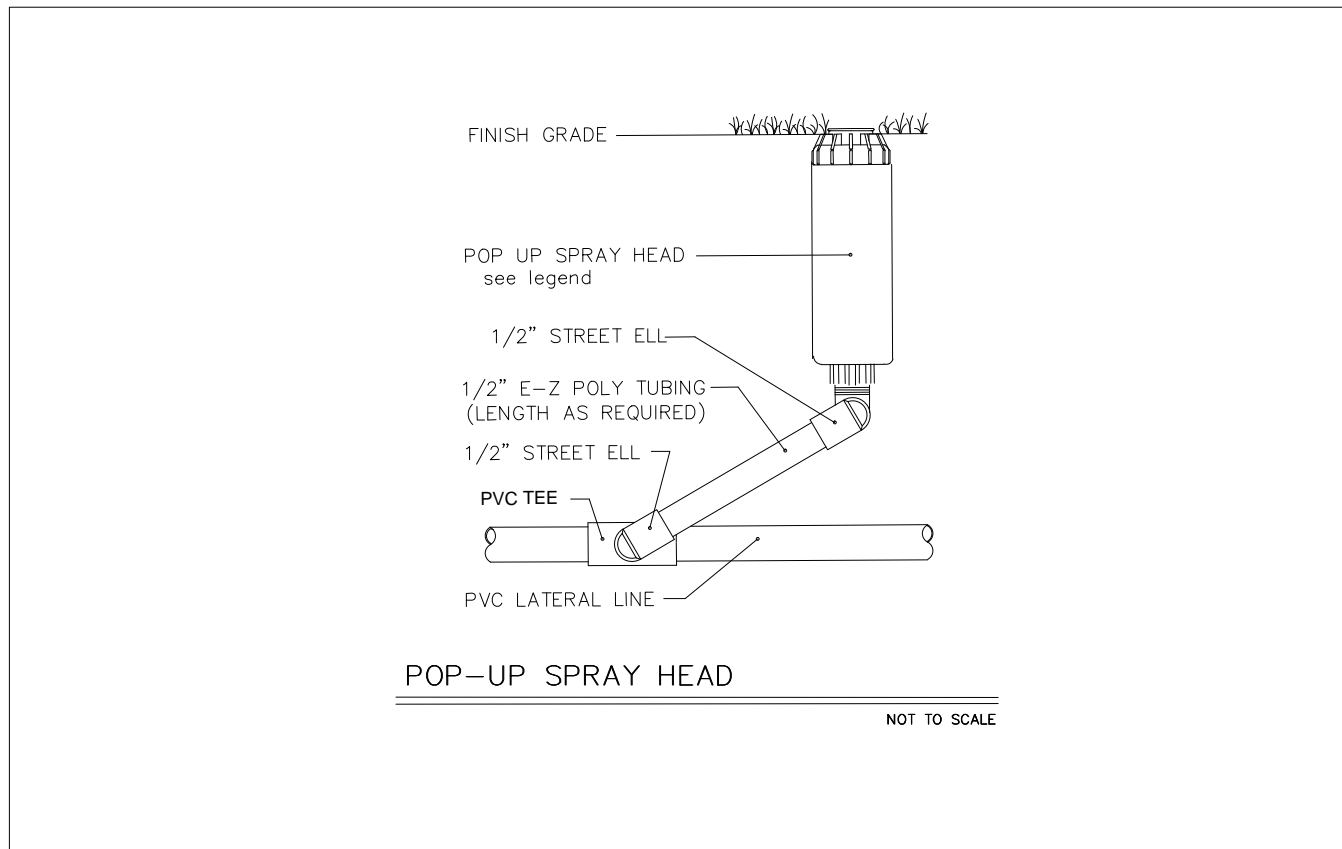
SHEET

L-3

3 of 4 sheets

24-021 LAND

FOR ASSOCIATION REVIEW - NOT FOR CONSTRUCTION



GENERAL NOTES:

GRADING

- Landscape Contractor shall maintain a minimum 1% drainage away from all buildings and finish grades shall be smoothed to eliminate ponding or standing water. Fine grade all planting areas prior to commencement of planting operation. The Landscape Contractor shall coordinate with all trades and maintain drainage during construction.
- Rough grade (i.e. finish grade less 4") to be provided by others in landscape areas.
- Place Jute Mesh over slope areas 2:1 or greater.

SOIL PREPARATION

- Evenly spread 4" layer (after settlement) of imported Amended Cinder Topsoil Mix topsoil over all planting areas, unless otherwise specified.
- Pre-mix AMENDED CINDER TOPSOIL MIX as follows:
1/3 screened Topsoil 1/3 Cinder (3/8" minus) 1/3 Organic Compost
- Uniformly distribute 10-30-10 fertilizer at a rate of 10 lbs. per 1000 sq. ft.

PLANTING
























- Plant quantities shown in the legend are for the Contractor's reference only. The Contractor shall verify all quantities before bidding. The Contractor is responsible for providing sufficient material to cover all areas shown on the plans.
- Plant materials shall be in quantities and sizes specified and be spotted approximately as shown on the plans after the site is graded. The Landscape Architect shall approve these locations before plants are removed from containers and any excavation for plant pits begin.
- Plant material is subject to change by Landscape Architect or Owner based on availability, functional and aesthetic considerations.
- Contractor shall obtain Landscape Architect's approval prior to any substitutions for material specified on the plans.
- Contractor shall layout lawn areas for Landscape Architect's approval prior to any installation of planting or irrigation.
- Shrubs and trees shall have ground cover planted under them as shown by adjacent symbol. Areas not receiving ground cover shall have mulch evenly under shrubs as called for in the materials legend.
- Ground cover shall be planted using triangular spacing.
- Vines and espaliers shall be secured to adjacent fences, posts or walls using vine ties. Remove nursery stakes or trellis.
- Contractor shall guarantee plant longevity as follows: Trees one year; Shrubs and Ground covers for three months. This period to begin at the end of the maintenance period and after final acceptance.
- All planted and irrigated areas shall be subject to a ninety (90) day maintenance period. Formal maintenance period shall begin when installation is approved by Landscape Architect.
- Root barriers as shown on plans shall be installed as per the manufacturer's specifications.
- Contractor shall be aware of all new utility locations prior to excavation. See Civil, Mechanical and Electrical drawings.
- Large specimen trees and palms shall be guyed as required for healthy plant establishment.
- Refer to Landscape Specifications for additional information regarding material and installation requirements.

IRRIGATION GENERAL NOTES:

- 110 power to controllers to be provided by general contractor. Irrigation contractor is responsible for coordinating controller placement with general contractor.
- Install low head check valves on any heads requiring them due to low head drainage.
- Coordinate irrigation sleeves and conduit placement with general contractor.
- All pressure pipe and control wire shall be placed in sch. 40 pvc sleeves when crossing under roads, sidewalks and/or walls.
- All irrigation heads to be installed a minimum of 6" from all walkways and walls, 18" from buildings unless otherwise noted.
- Valve boxes should be located away from walks and high visibility areas, and be set flush with finish grade.
- Contractor shall provide two (2) spare wires from each controller to the furthest valve.
- Rainbird 3M DBY/DBR connectors (or equal) shall be used at all wire connections below grade.
- Contractor is responsible for making any adjustments to system necessary to insure 100% head to head coverage without spraying buildings or walls.
- Contractor shall verify static pressure at P.O.C. necessary to operate system as designed before commencing work.
- Contractor is responsible for the verification of all utility lines. Any utilities damaged as a result of the contractors operations shall be repaired at the contractors expense. The irrigation contractor shall coordinate with the general contractor to avoid these damages.
- Contractor to stake alignment of lawn areas in field for approval by Landscape Architect prior to trenching for lateral systems.
- Contractor shall label all valves with water proof tags indicating the controller station operating them.
- All materials and work shall be guaranteed for one (1) year from written acceptance by the owner or owners representative. Contractor shall repair and/or replace any defective parts or components of the irrigation system immediately within the guarantee period at no cost to the owner.
- The contractor shall, at the completion of all work, provide the owner with an 'As-Built' set of drawings.
- Contractor shall refer to written specifications accompanying these plans for additional info.
- After installation of the system is completed, the Contractor shall instruct the Owner or the representative of the Owner in the operation and maintenance of the system and furnish a complete set of operation instructions.

IRRIGATION LEGEND:

EQUIPMENT – HEADS						
SYMBOL	HEAD	PSI	GPM	RADIUS	ARC	REMARKS
1	RAINBIRD 1804 SAM–PRS–100	30	.4	12'	90	
2	RAINBIRD 1804 SAM–PRS–10H	30	.8	12'	180	
3	RAINBIRD 1804 SAM–PRS–10F	30	1.6	12'	360	
4	RAINBIRD 1804 SAM–PRS–15SST	30	1.21	4X14	SO.	SIDE STRIP
5	RAINBIRD 1804 SAM–PRS–15EST	30	.61	4X14	SO.	END STRIP
6	RAINBIRD 3504 PC–SAM	45	2.0	24'	90	
7	RAINBIRD 3504 PC–SAM	45	2.0	24'	180	
8	RAINBIRD 3504 PC–SAM	45	2.0	24'	360	
9	RAINBIRD 1804 SAM–PRS–15H	30	1.85	15'	180	
○	4" LAWN POP–UP					

OTHER EQUIPMENT		
	DRIP VALVE	Rainbird Control Zone Kit – XCZ–100–PRF
	CONTROL VALVE	RAINBIRD – 100–PEB–PRS–D
	BACKFLOW PREVENTER	3/4"
	BRASS GATE VALVE	Nibco – T113 Series
	CL 200 PVC LATERAL LINE	size per plan
	Sch. 40 PVC MAIN LINE	size per plan – SCH. 40
	Sch. 40 PVC GREY CONDUIT	for control wiring under paving
	Sch. 40 PVC SLEEVE	for sleeves under pavement
	CONTROLLER	RAINBIRD ESP – 36MC
	WATER METER	wall mount – see plan
		
		
		
		
		
		
		
		
		
		
		
		
		
	'Techlite' dripline by Netafim –or– Rainbird Landscape dripline	at grade drip irrigation bury thru cinder areas
	AUTOMATIC RAIN SHUT-OFF	Rainbird Rain Check – install top of garage

PLANTING AND IRRIGATION
DETAILS, NOTES, & LEGENDS

K. TANAKA
LANDSCAPE
ARCHITECT

468 Polulani Dr.
Wailuku, HI
96793

(808) 243-9494
ktanaka001@hawaii.rr.com

PREPARED FOR:

Calhoun Residence

Kaanapali Coffee Farms Lot 32
Lahaina HI 96761

TMK: (2) 4 - 4 - 020 : 032



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ME OR UNDER MY DIRECT
SUPERVISION AND CONSTRUCTION
OF THIS PROJECT WILL BE UNDER
MY SUPERVISION

Kevin T. Tanaka
Signature Expires 04–30–26

1	–
2	–
3	–
4	–
5	–
6	–
7	–

Designed by KT
Drawn by KT
Checked by KT
Date November 2024
File No. 24–021

SHEET
L–4
4 of 4 sheets

FOR ASSOCIATION REVIEW – NOT FOR CONSTRUCTION



A square frame containing a stylized 'K' shape and a small black dot.

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Proposed Second Farm Dwelling

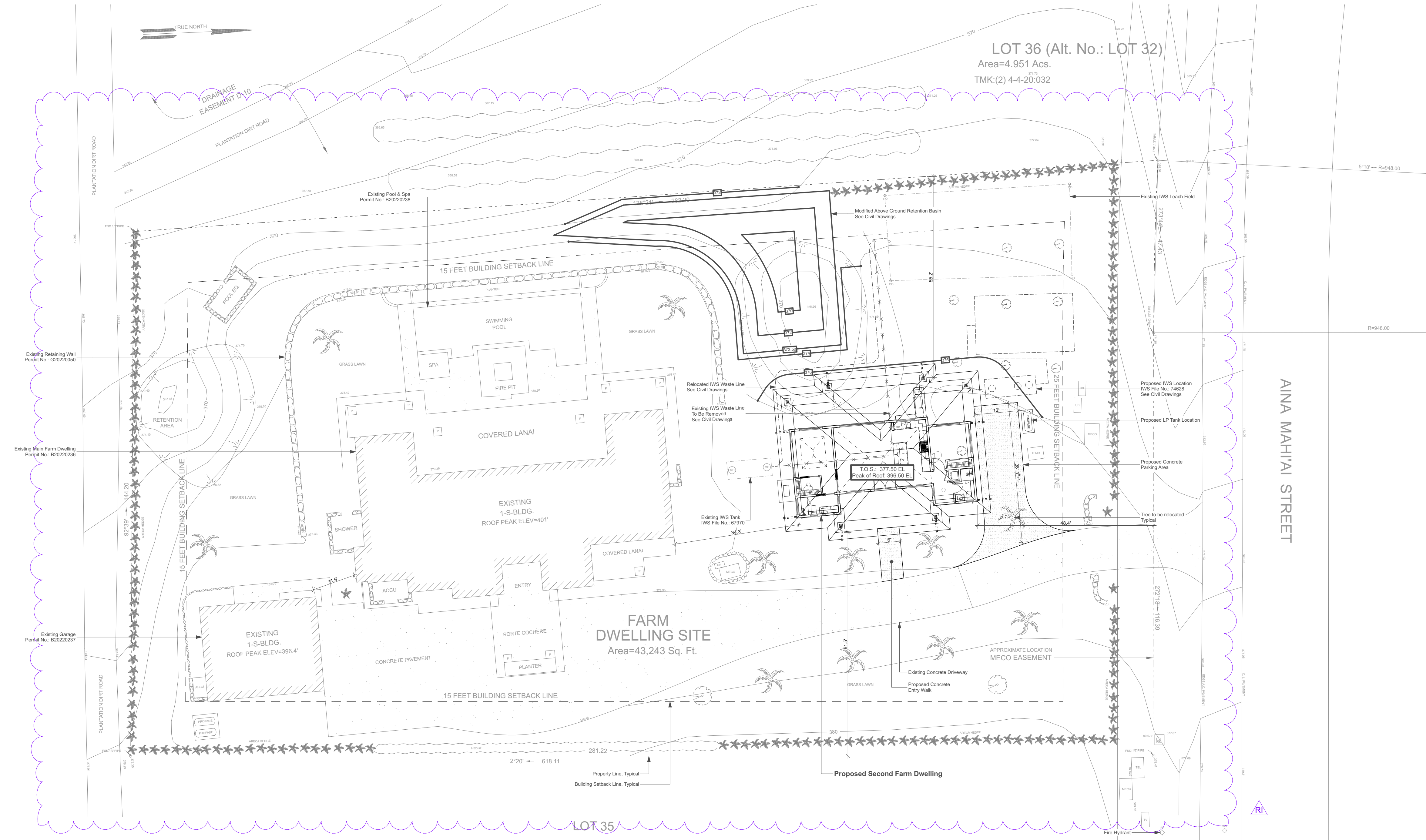
Revisions:
RI Per DSA letter 4-30-25

Overall Architectural Site Plan

Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

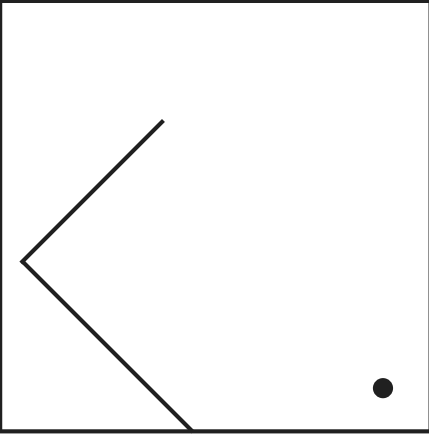
A-0

Total Sheet Count: 33



2 Architectural Site Plan
Scale: 1/16" = 1'-0"

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Atomi Kasprzycki
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Proposed Second Farm Dwelling

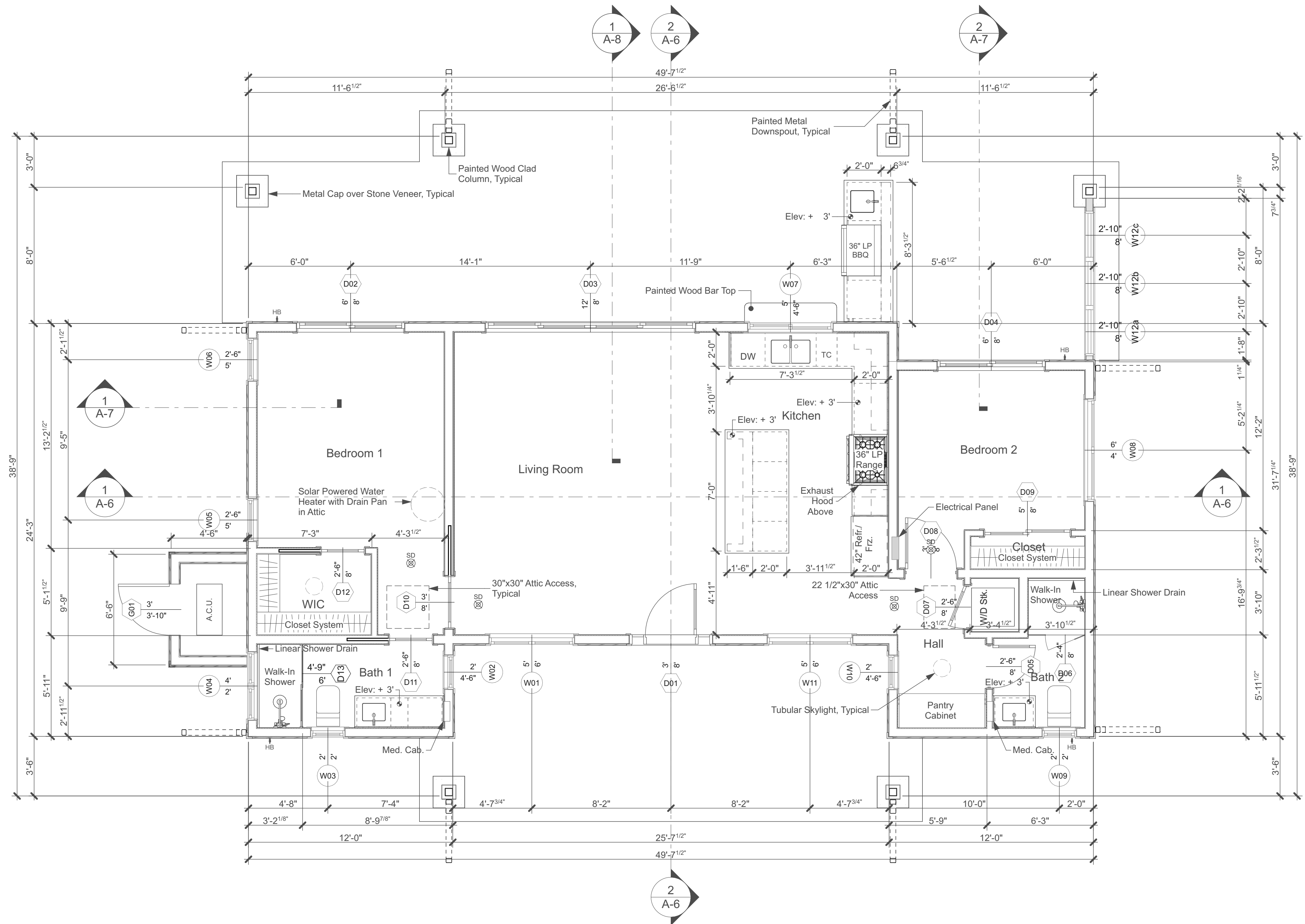
Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:
RI, Per DSA letter 4-30-25

Enlarged Architectural Site
Plan Portion

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

A-0.1
Total Sheet Count: 33

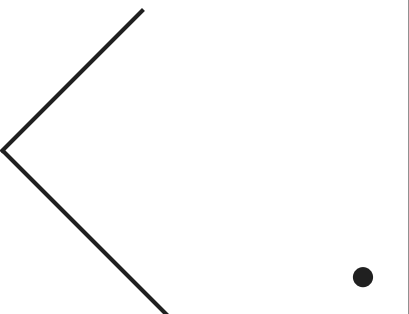


1 Floor Plan
Scale: 1/4" = 1'-0"

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HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all new single family dwellings

Area Summary	
Living Area	1,038 SF
Covered Lanai	726 SF



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Atoi K. Kasprzycki
Signature

Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
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Revisions:

Floor Plan

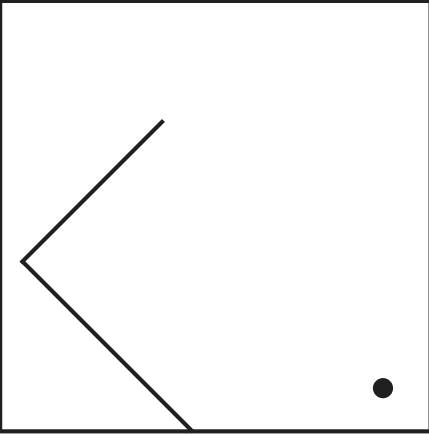
Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

A-1

Total Sheet Count: 33



1 Furniture Plan
Scale: 1/4" = 1'-0"



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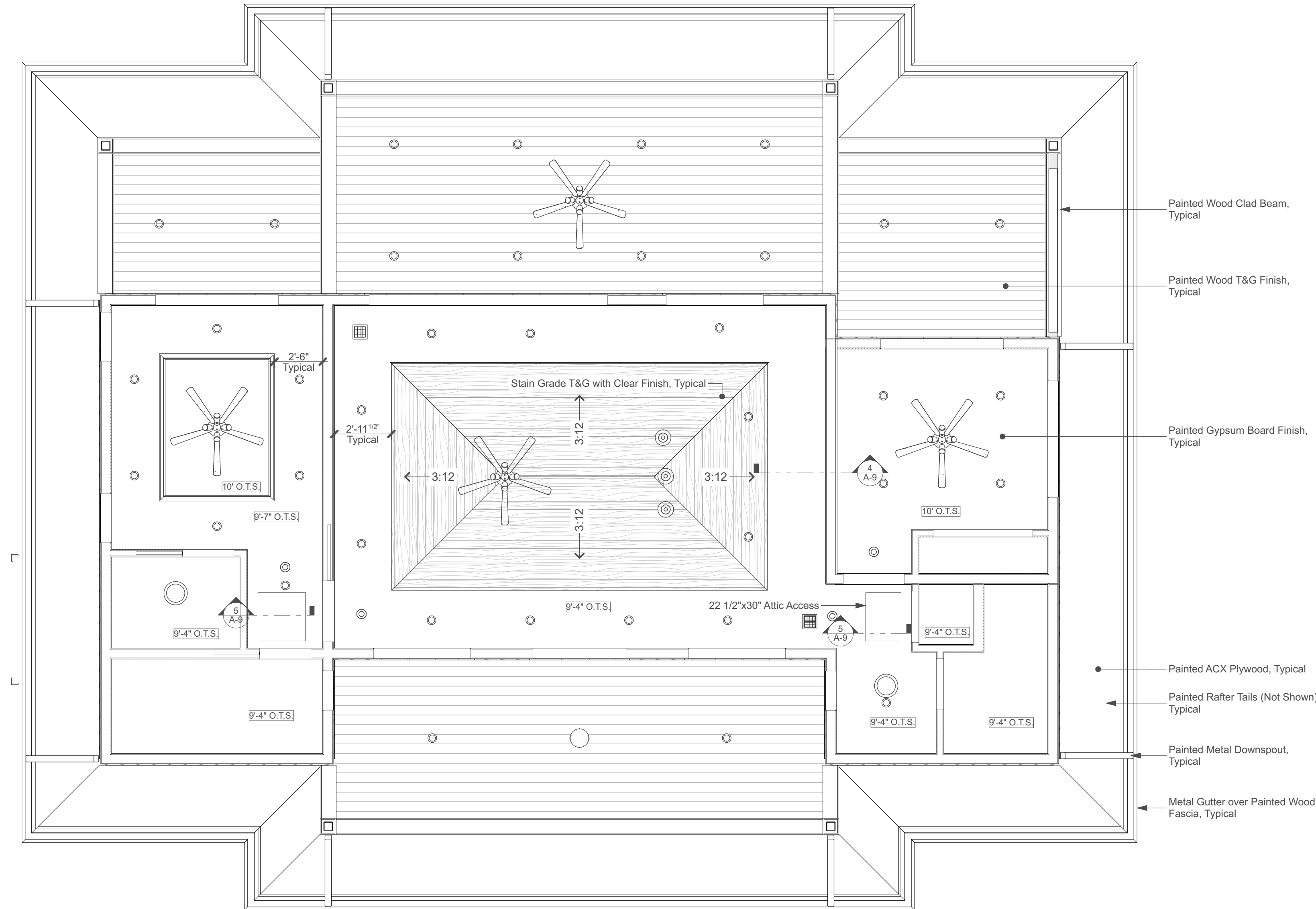
Proposed Second Farm Dwelling
Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

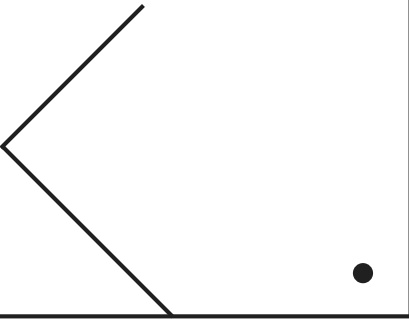
Furniture Plan

Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

A-2
Total Sheet Count: 33



1 Reflected Ceiling Plan
SCALE: 1/4" = 1'-0"



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Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

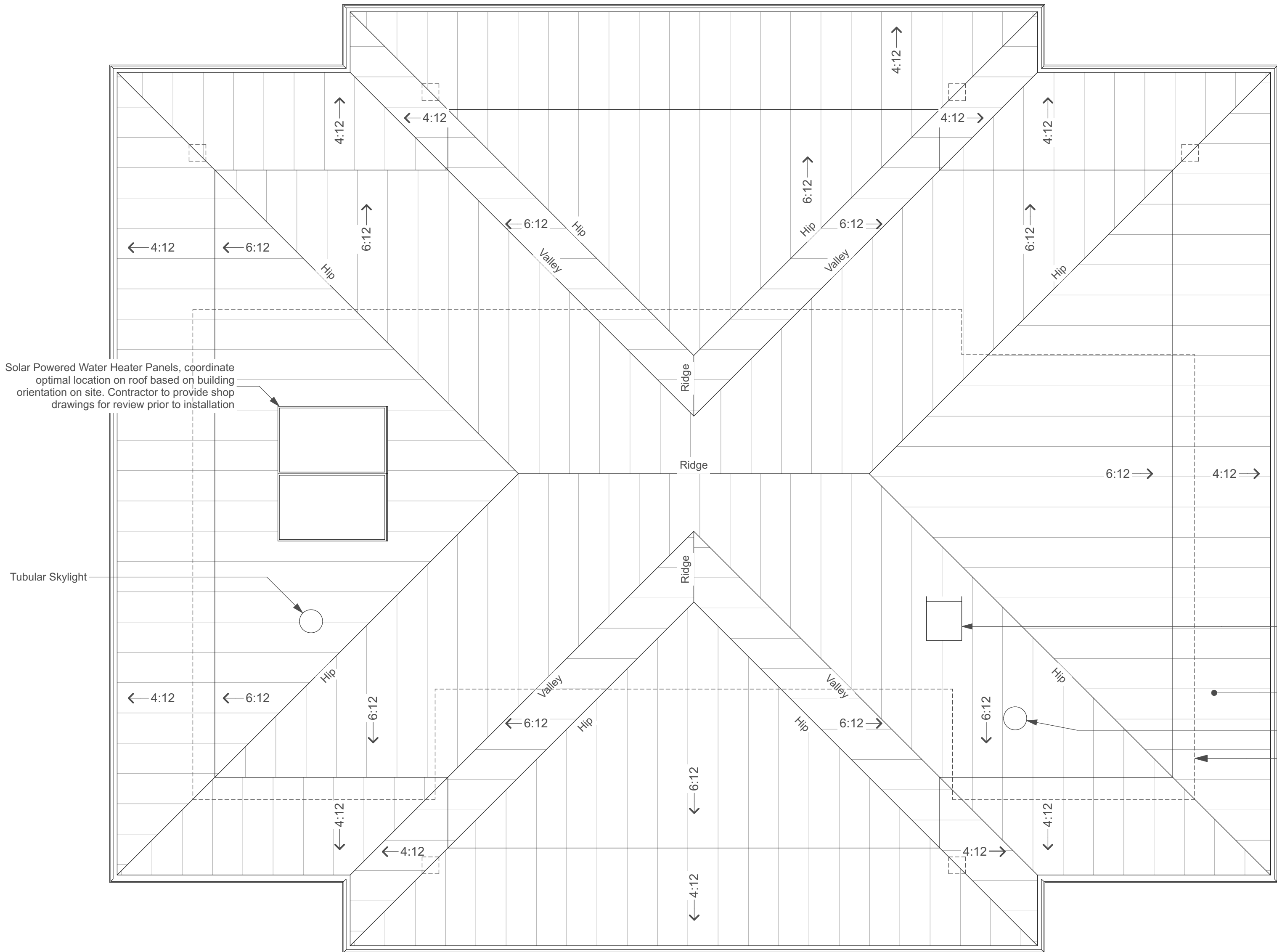
Revisions:

Reflected Ceiling Plan

Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

A-3

Total Sheet Count: 33



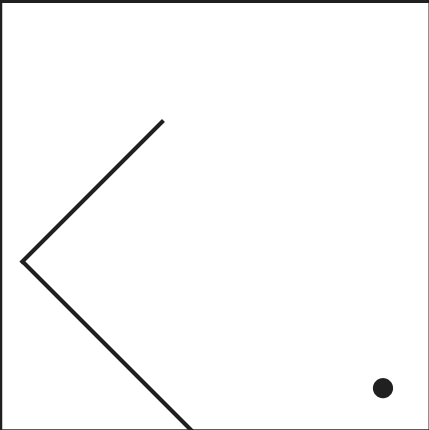
1 Roof Plan
SCALE: 1/4" = 1'-0" 0 2' 4' 8'

ROOF CONSTRUCTION AND COVERING
ROOFING TO BE INSTALLED PER
MANUFACTURER'S INSTALLATION
SPECIFICATIONS

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HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all
new single family dwellings

ROOF PLANES SCHEDULE				
Net Surface Area	Perimeter (L.F.)	Ridge Length (L.F.)	Hip Length (L.F.)	Valley Length (L.F.)
2,728.16	206.74'	23.88'	219.58'	101.26'



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Signature

Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

Roof Plan

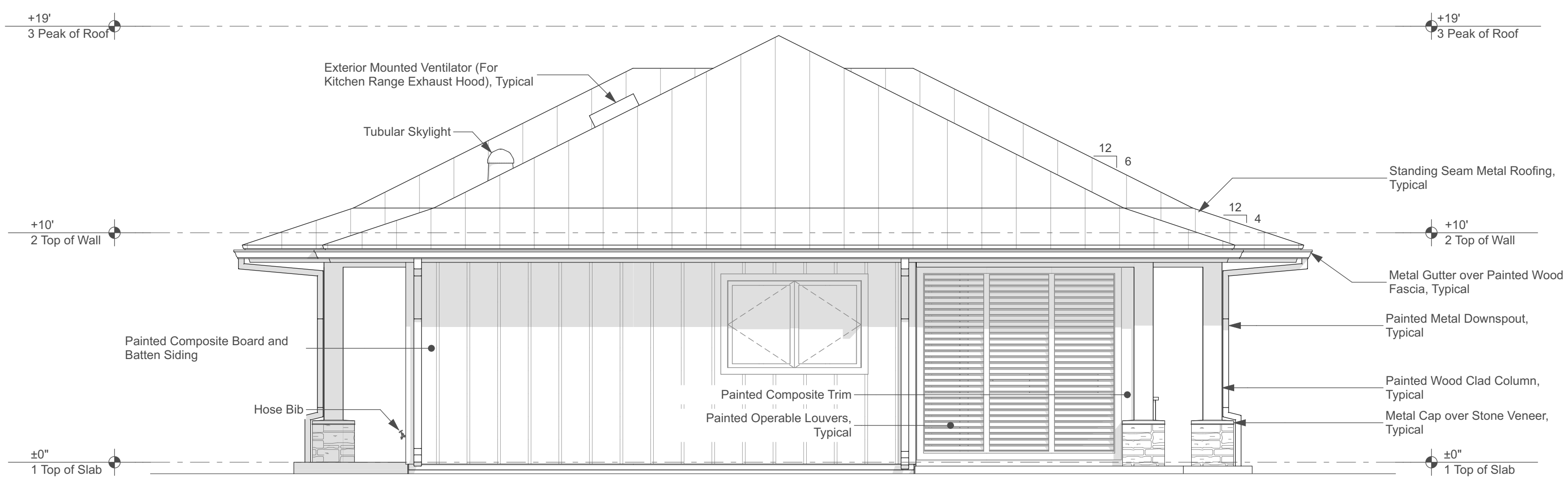
Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

A-4

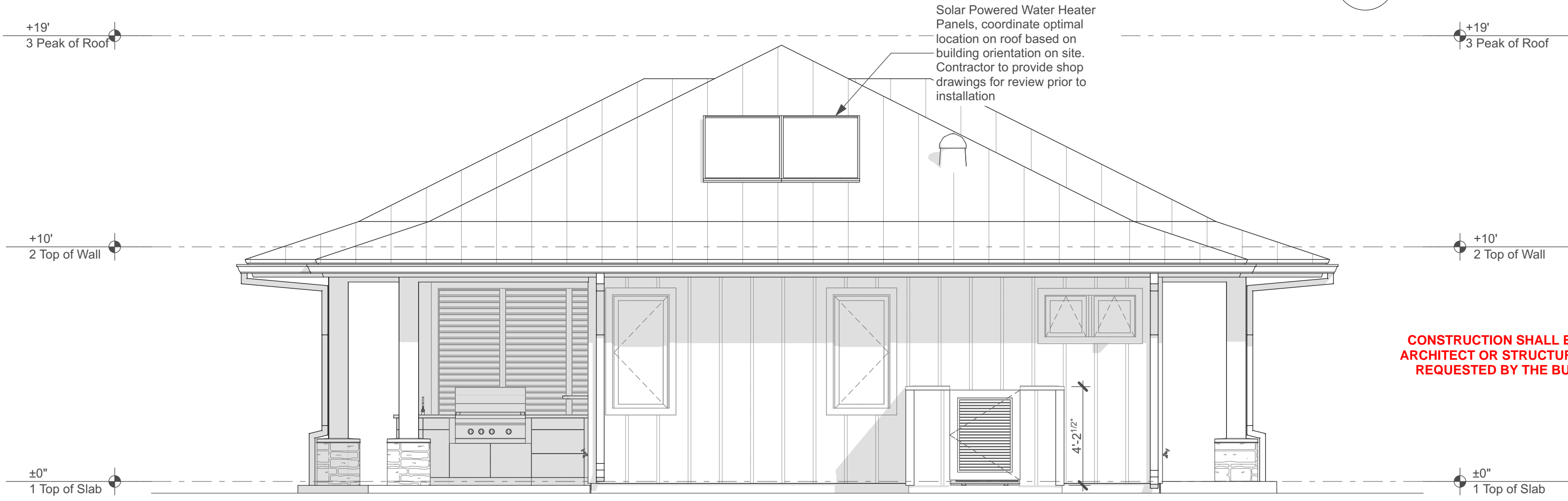
Total Sheet Count: 33



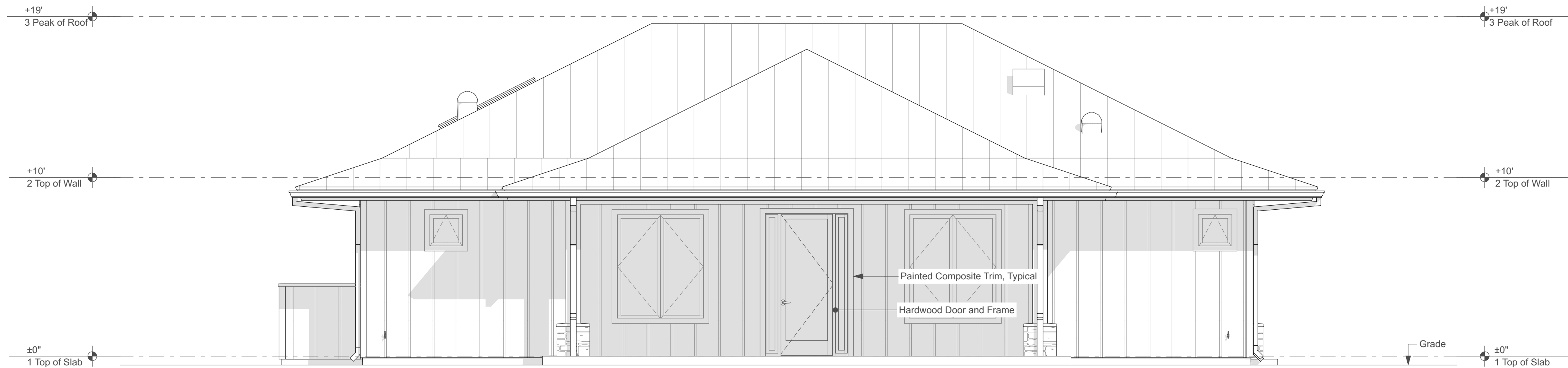
1 West Elevation
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



2 North Elevation
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



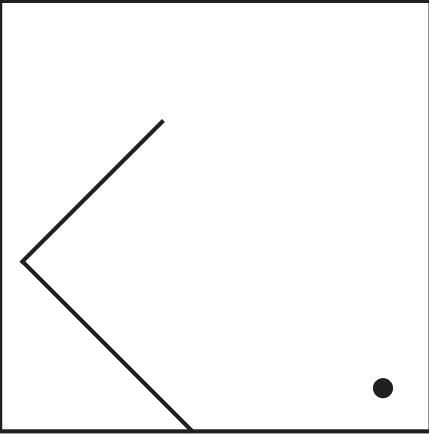
3 South Elevation
SCALE: 1/4" = 1'-0"
0 2' 4' 8'



4 East Elevation
SCALE: 1/4" = 1'-0"
0 2' 4' 8'

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HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all new single family dwellings



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Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
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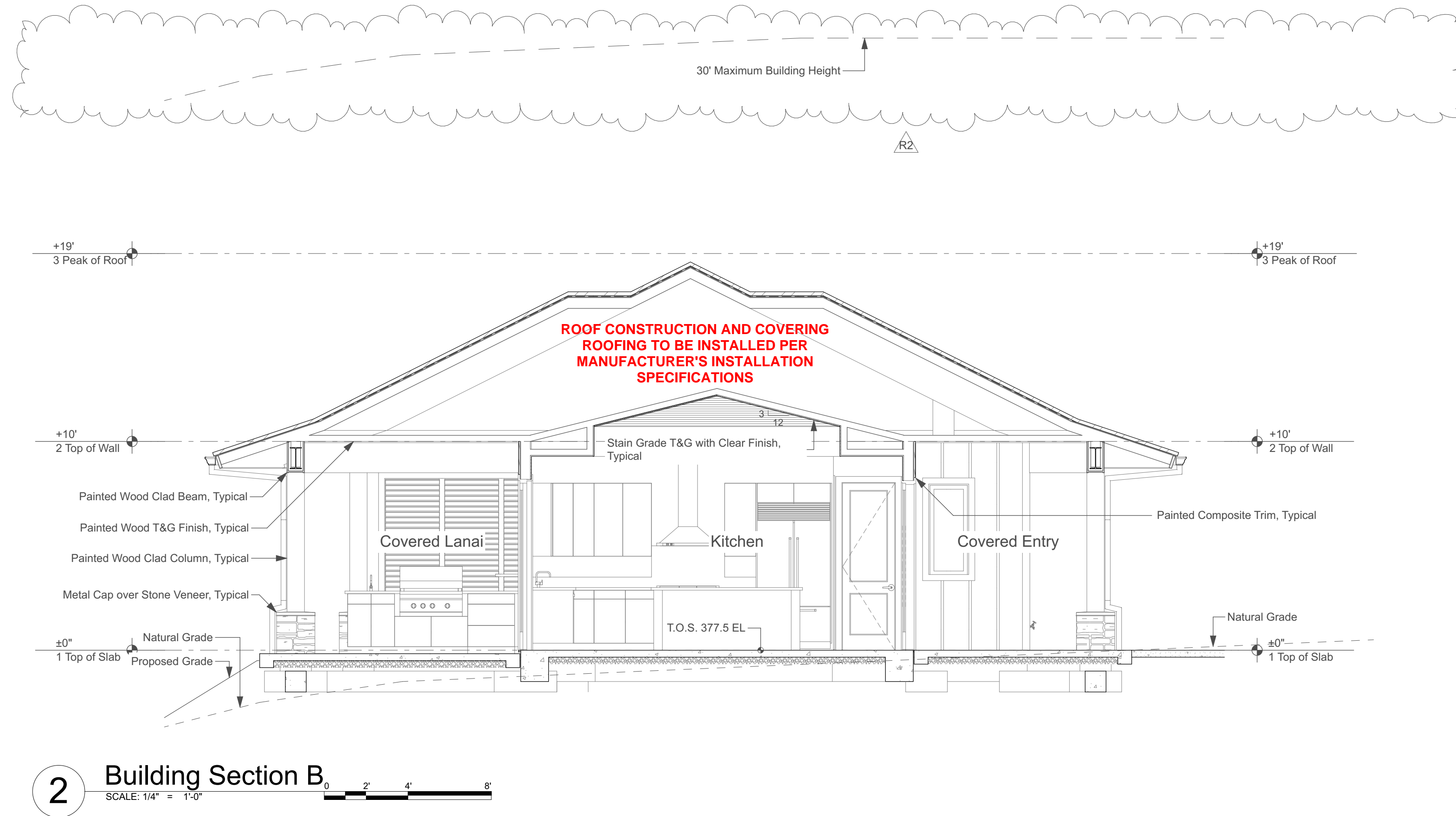
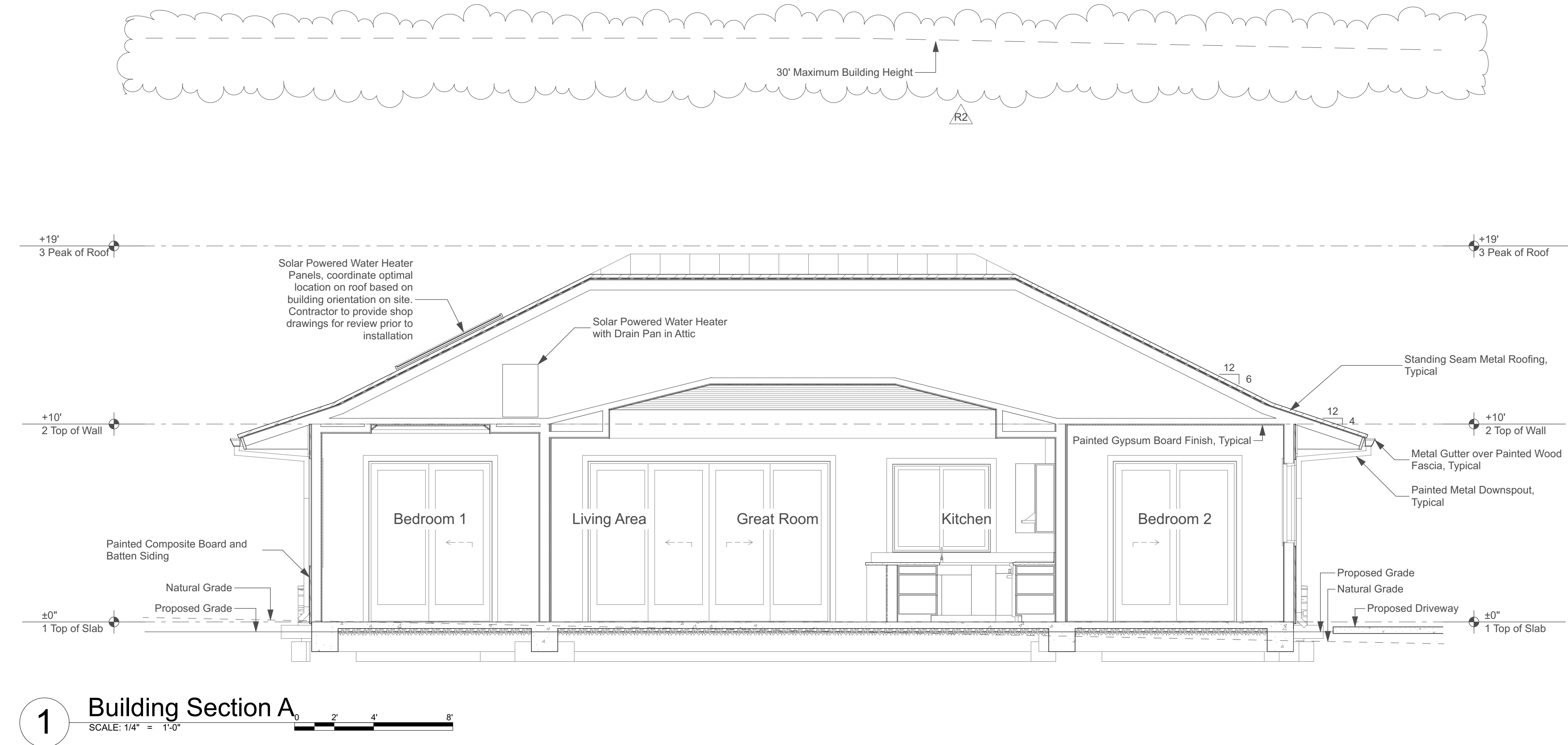
Revisions:

Exterior Elevations

Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

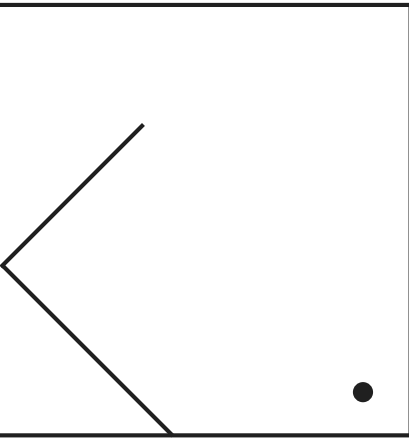
A-5

Total Sheet Count: 33



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HAWAII REVISED STATUTES, Section 196-6.5
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Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

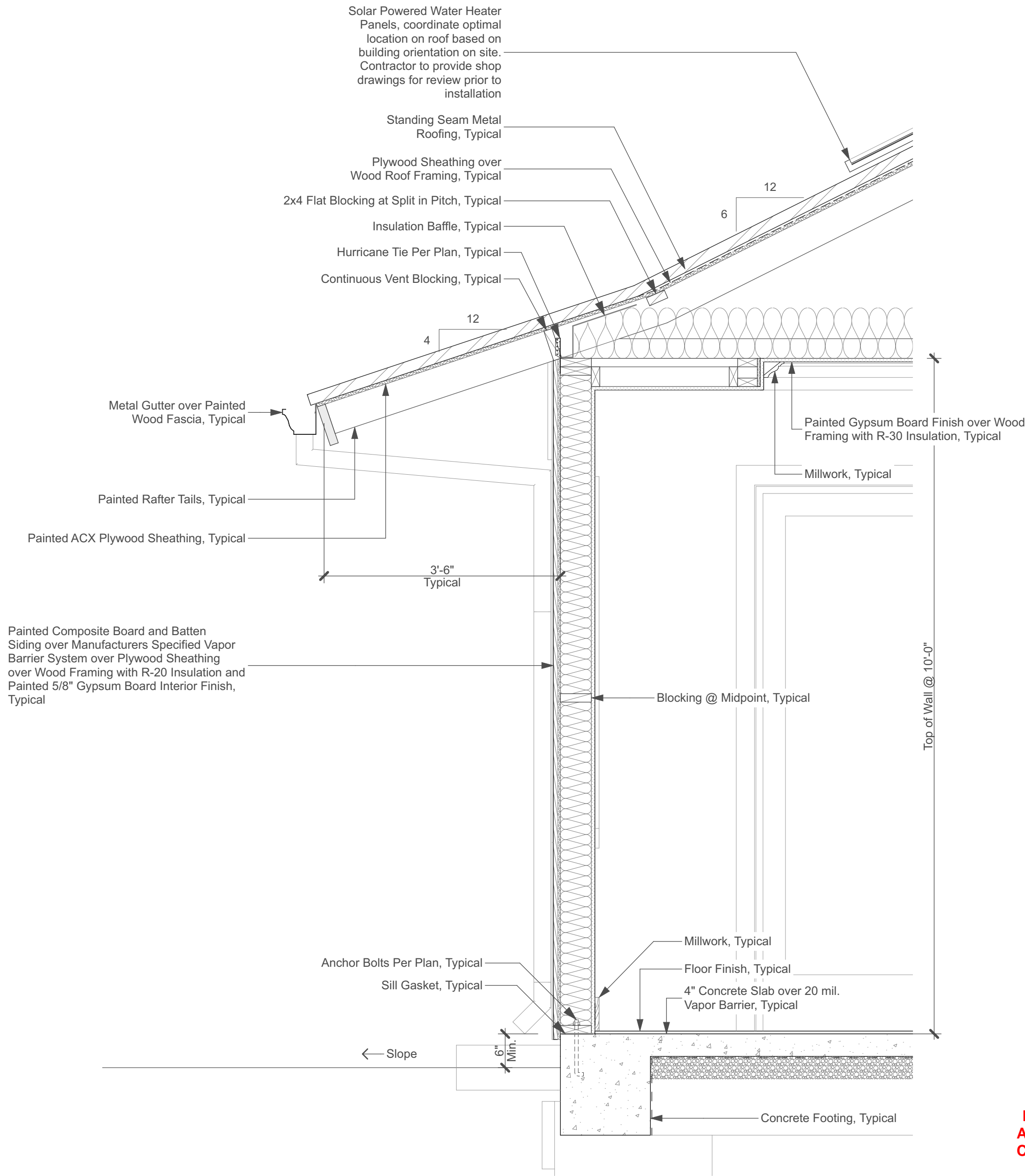
Revisions:
R2 Per DSA Comment 10-30-24

Building Sections

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

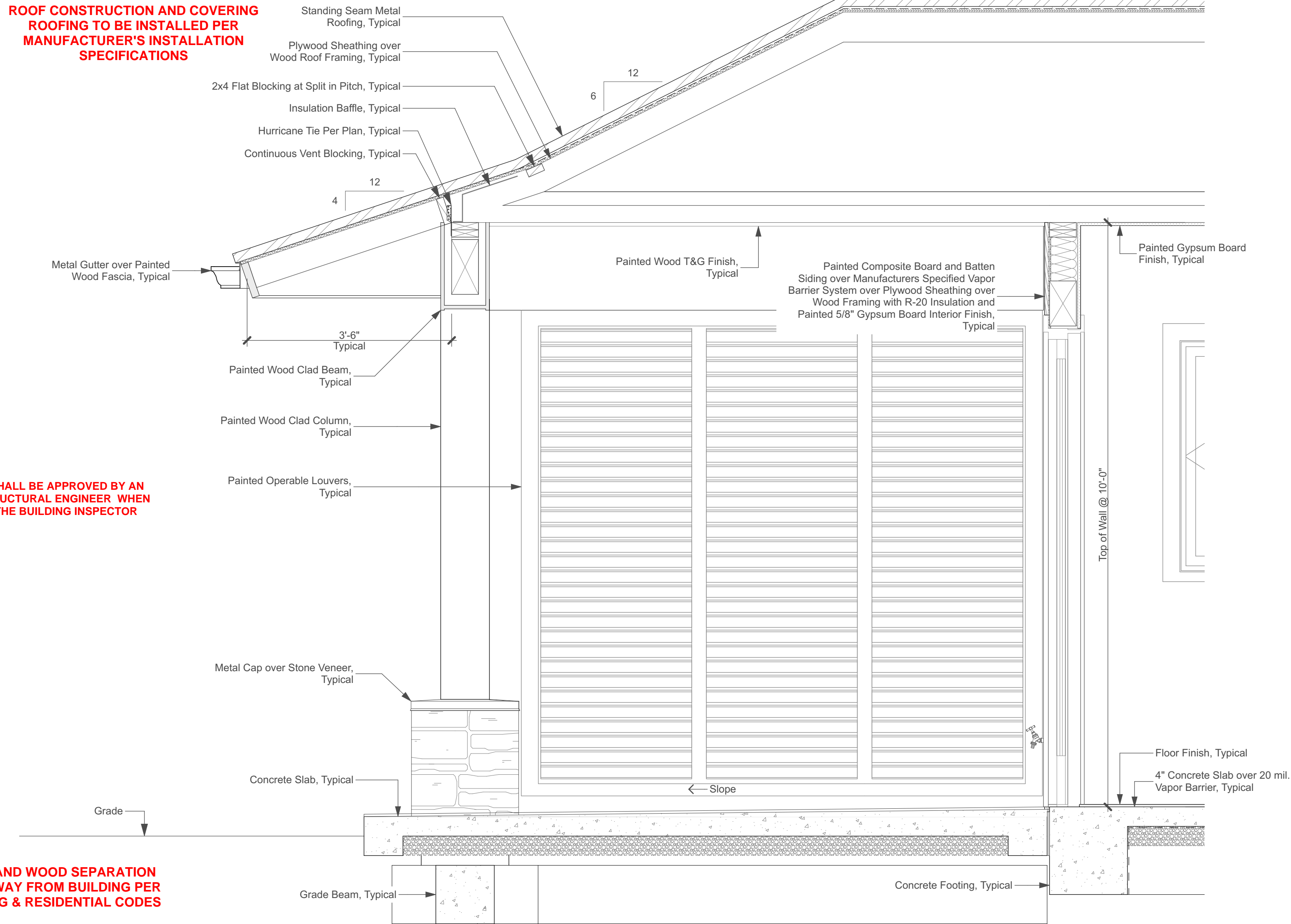
A-6

Total Sheet Count: 33



1 Wall Section-1
SCALE: 3/4" = 1'-0"

ROOF CONSTRUCTION AND COVERING
ROOFING TO BE INSTALLED PER
MANUFACTURER'S INSTALLATION
SPECIFICATIONS

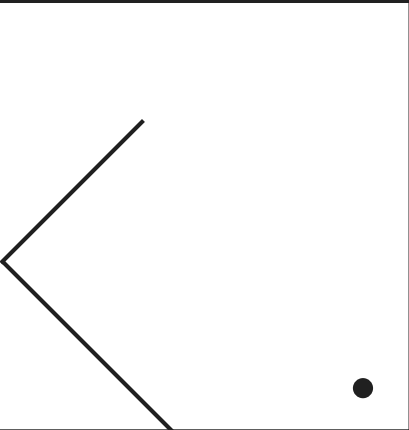


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PROVIDE EARTH AND WOOD SEPARATION
AND DRAINAGE AWAY FROM BUILDING PER
CURRENT BUILDING & RESIDENTIAL CODES

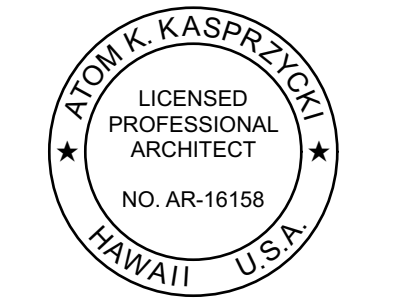
2 Wall Section-2
SCALE: 3/4" = 1'-0"

HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all
new single family dwellings



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Proposed Second Farm Dwelling

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Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-020-032

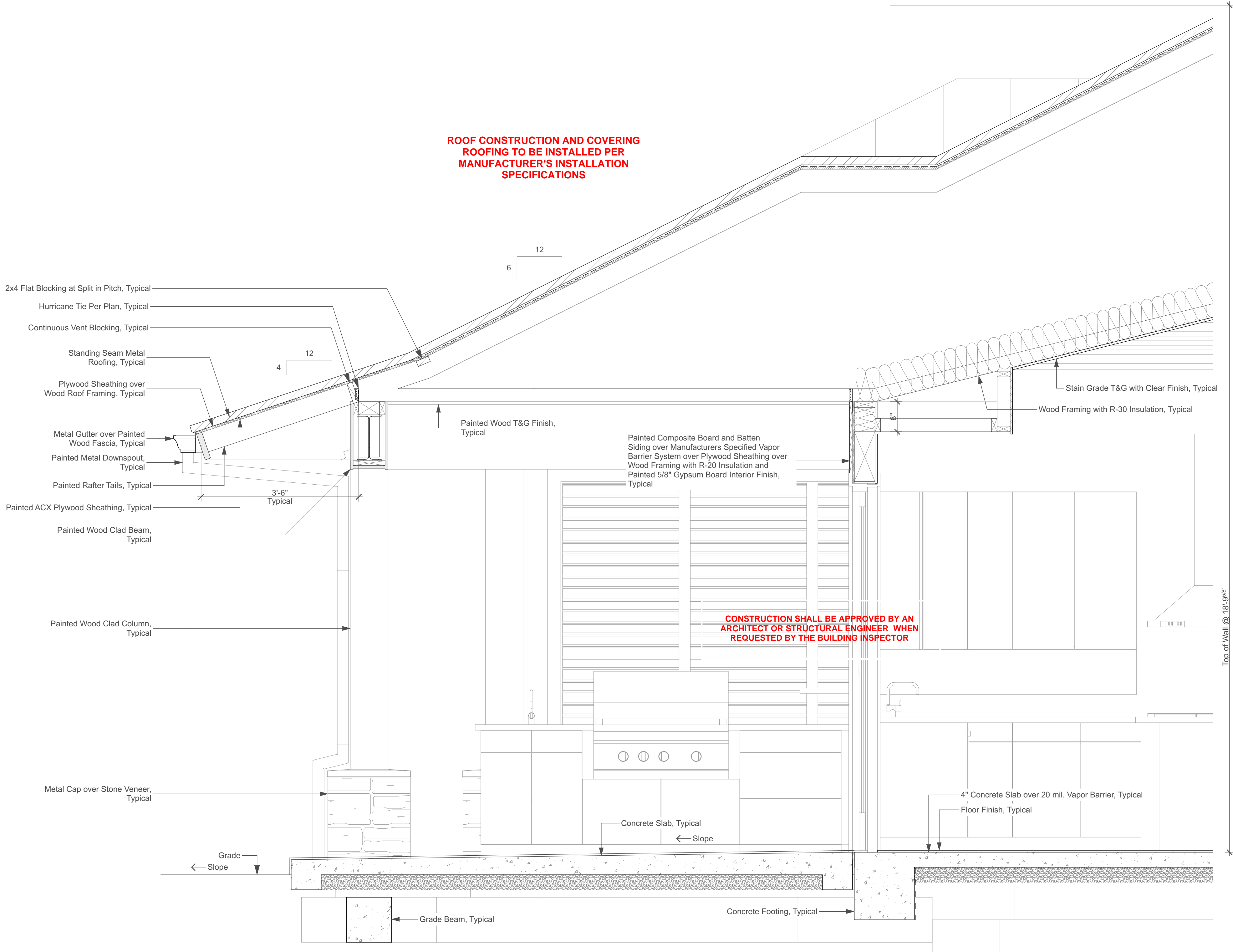
Revisions:

Wall Sections

Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

A-7

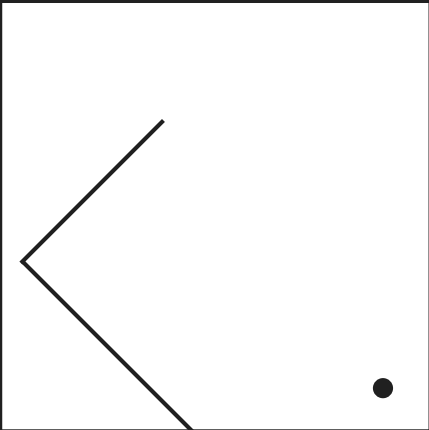
Total Sheet Count: 33



1 Wall Section-3
SCALE: 3/4" = 1'-0"

PROVIDE EARTH AND WOOD SEPARATION
AND DRAINAGE AWAY FROM BUILDING PER
CURRENT BUILDING & RESIDENTIAL CODES

HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all
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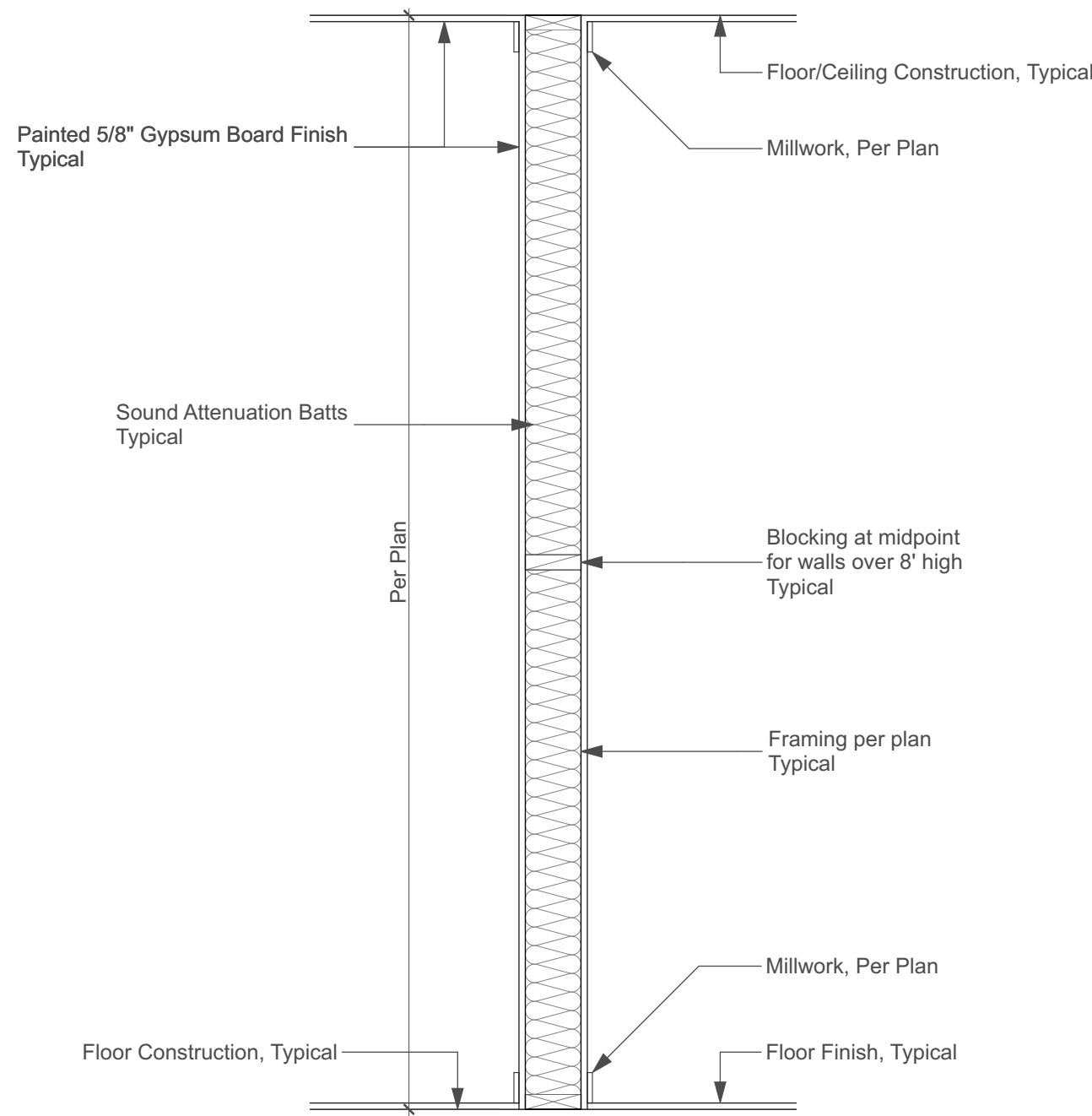
Proposed Second Farm Dwelling
Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

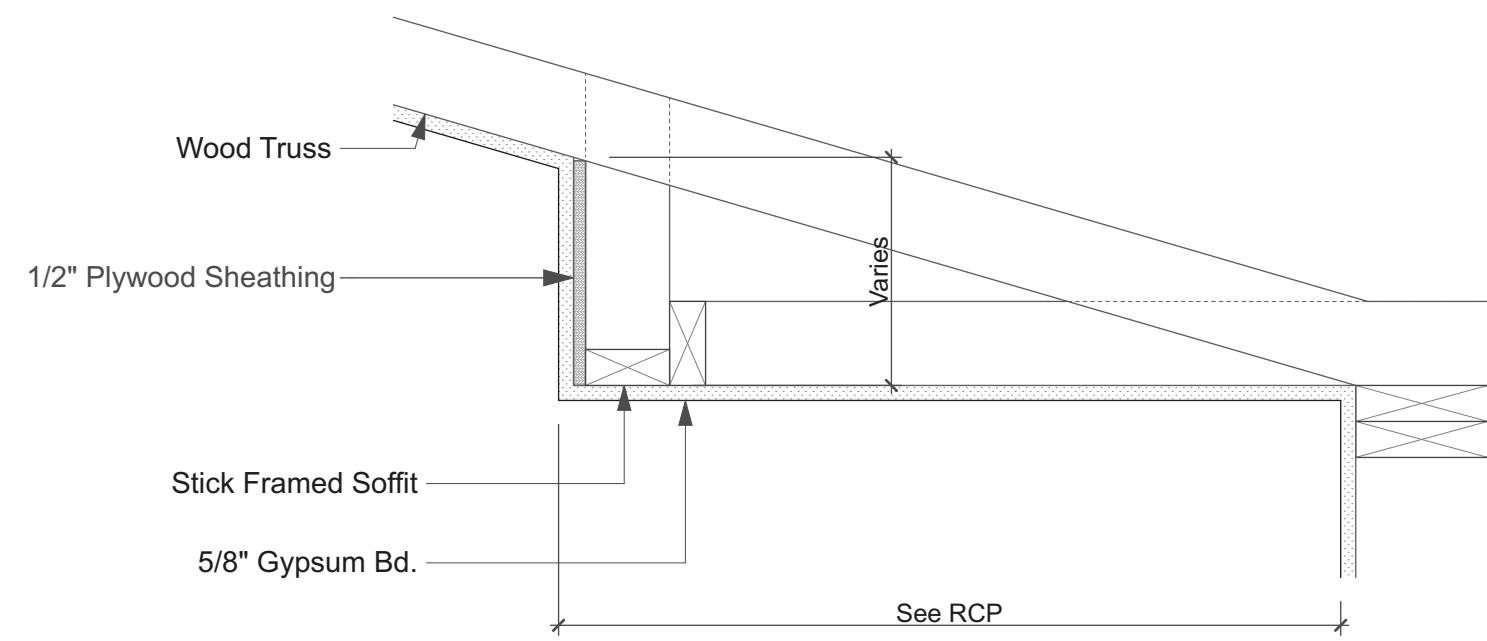
Wall Sections

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

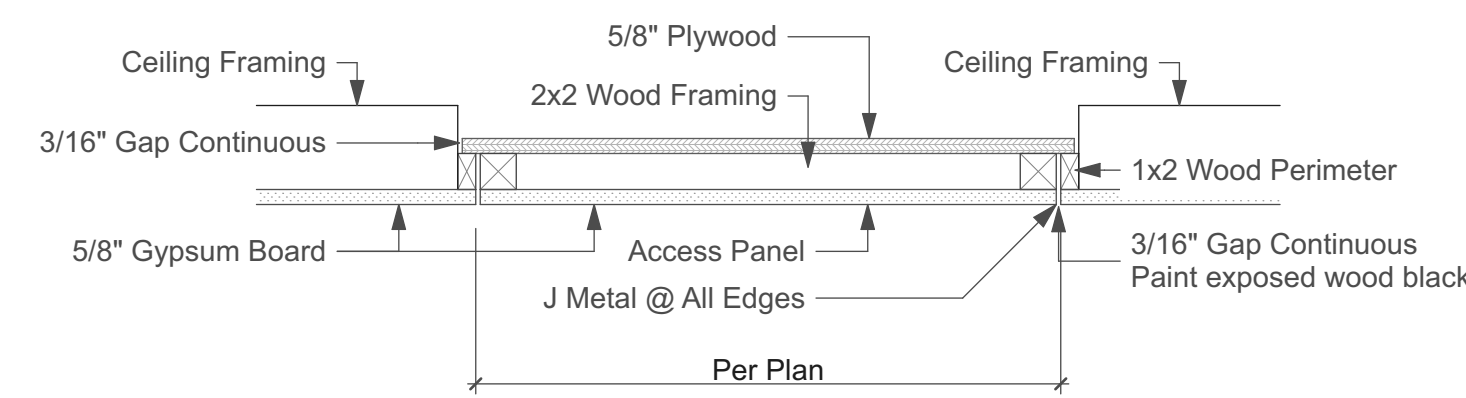
A-8
Total Sheet Count: 33



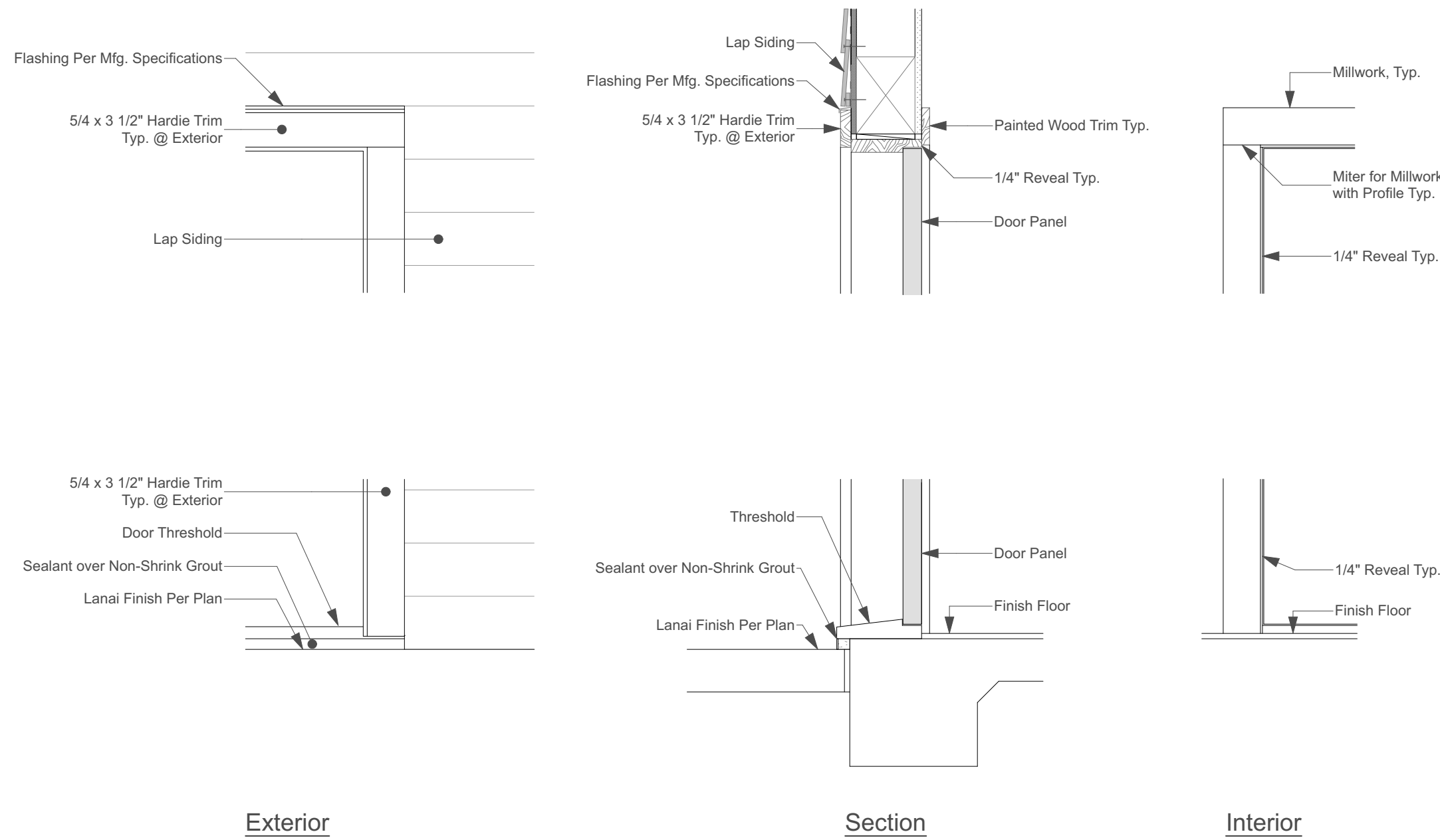
1 Typical Interior Wood Framed Partition Wall
SCALE: 3/4" = 1'-0"



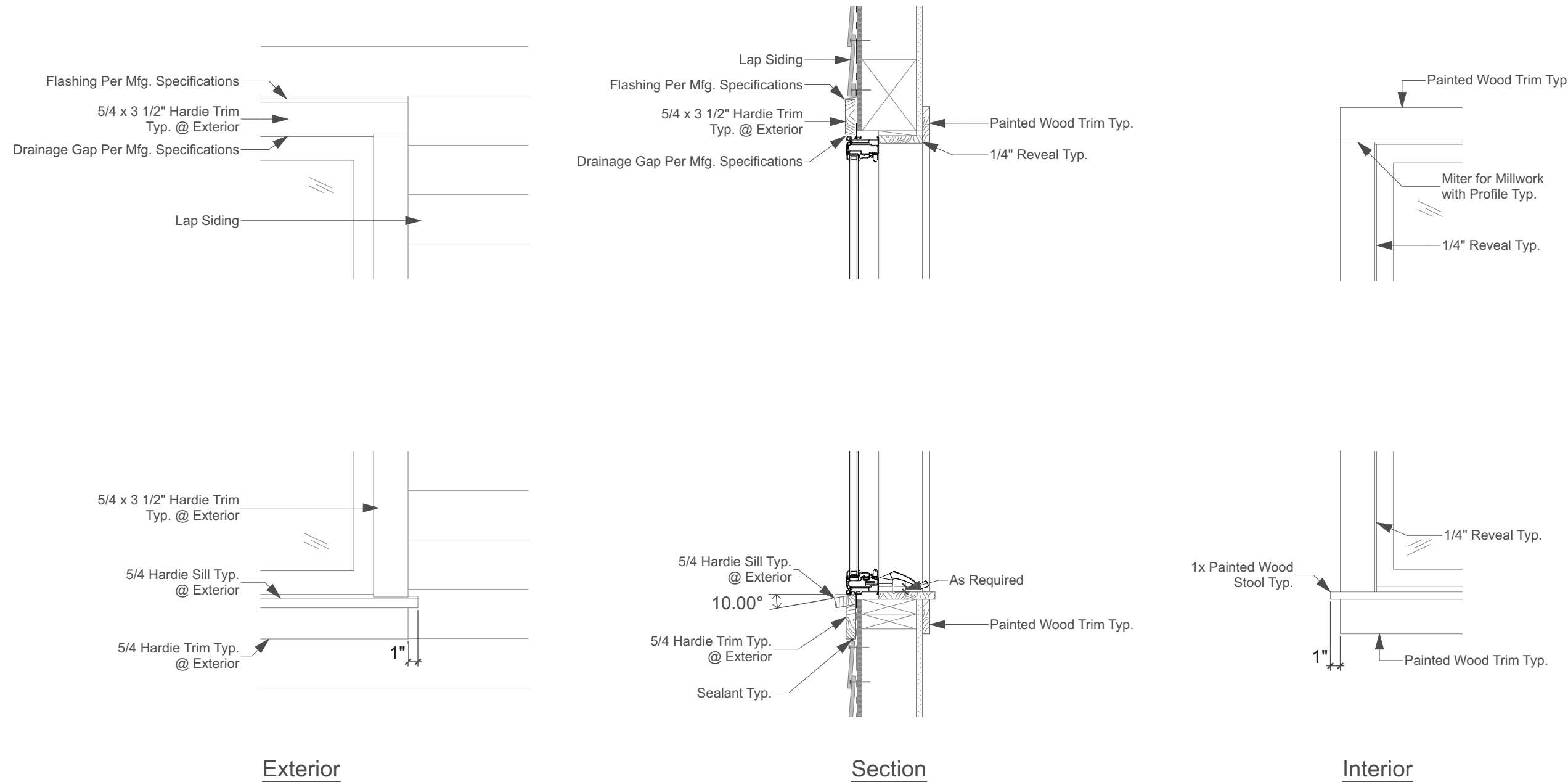
4 Interior Soffit - Sloped Ceiling
SCALE: 1 1/2" = 1'-0"



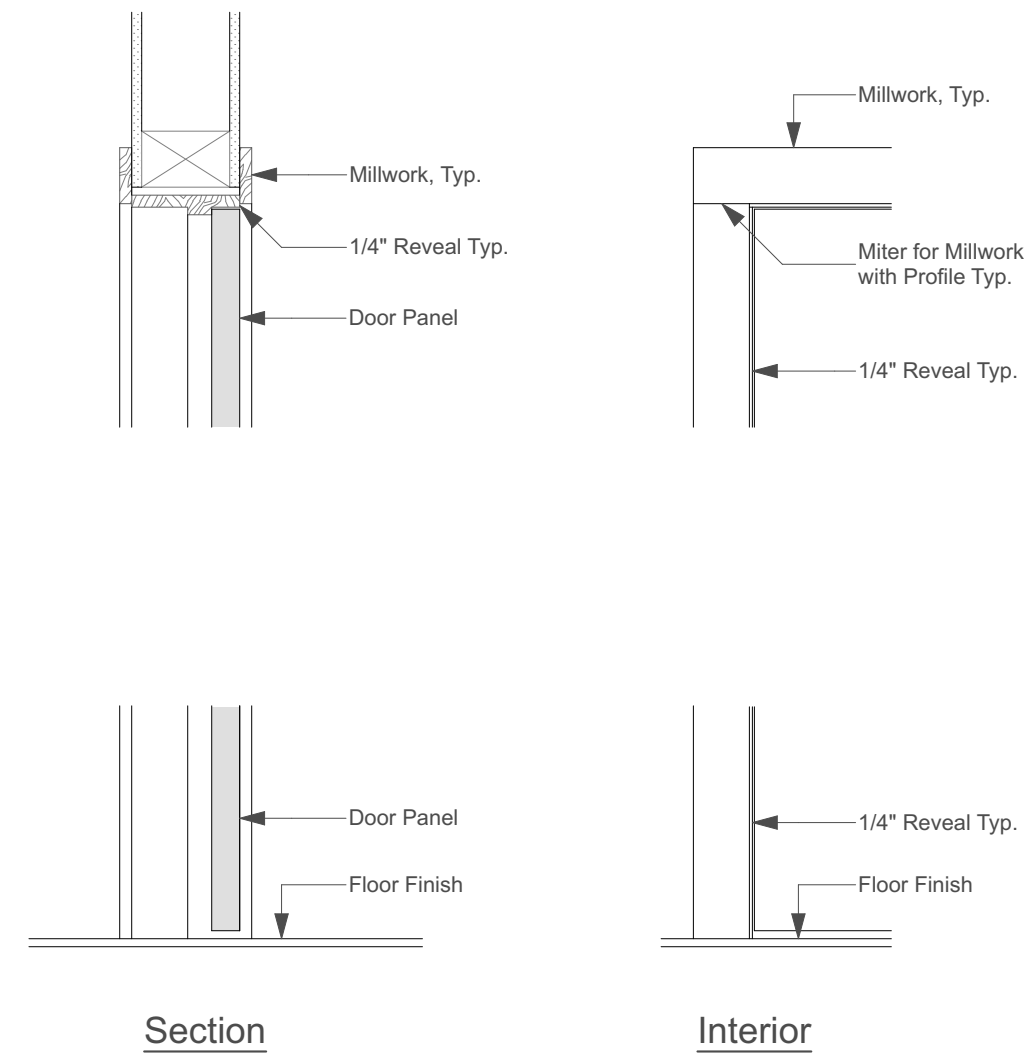
5 Flush Attic Access Panel Detail
SCALE: 1 1/2" = 1'-0"



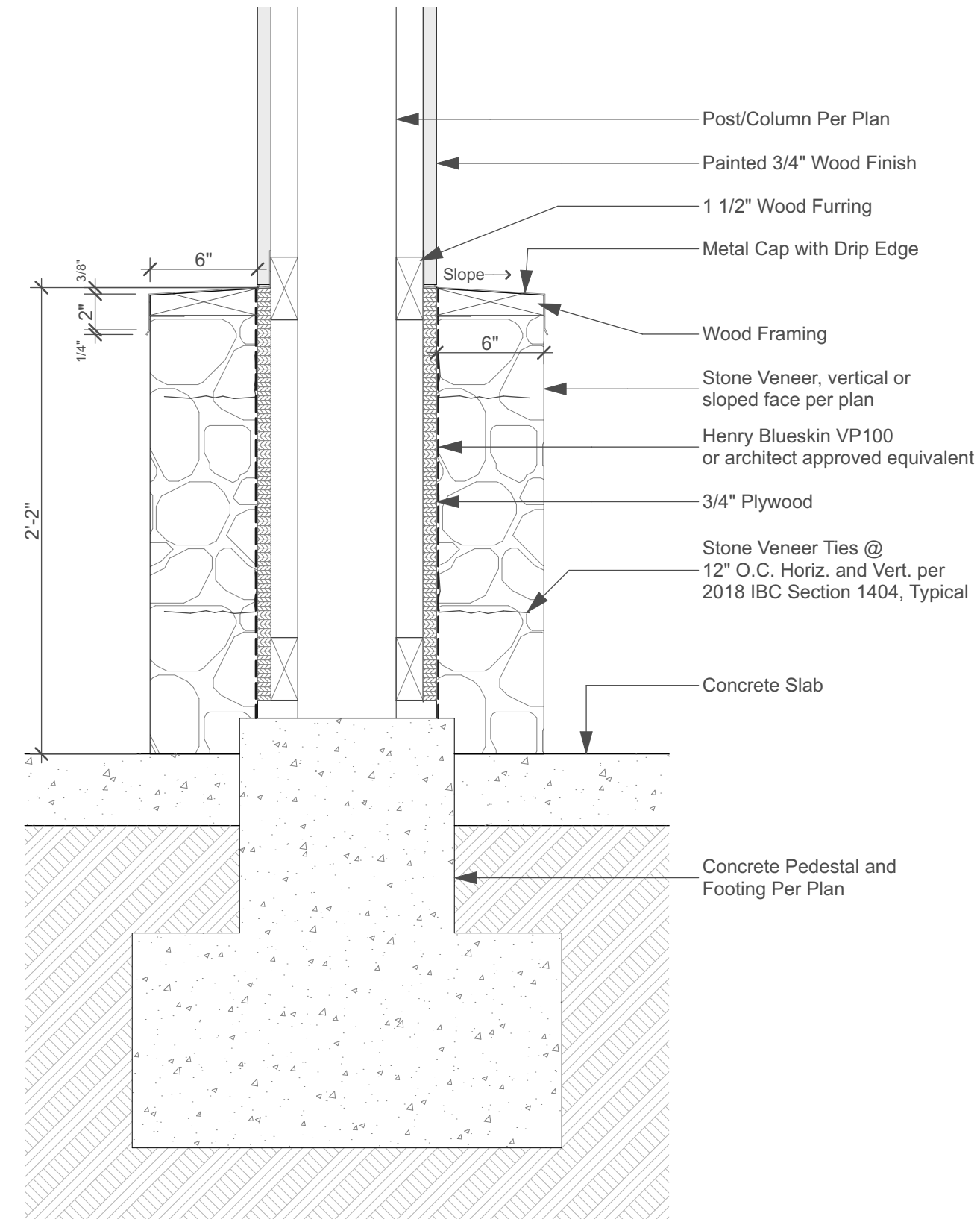
2 Exterior Door Trim Details - Lap Siding - Slab on Grade
Scale: 1" = 1'-0"



6 Window Trim Details - Lap Siding
Scale: 1" = 1'-0"

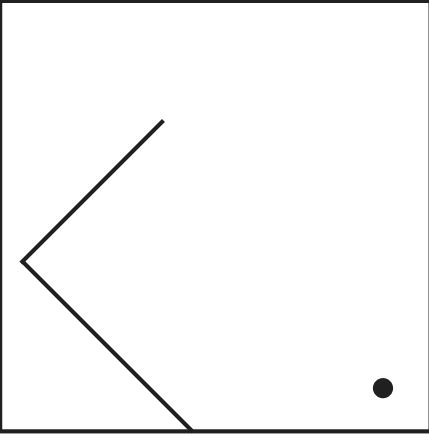


3 Interior Door Trim Details
Scale: 1" = 1'-0"



7 Rock Veneer with 1 1/2" Furring Base Detail
SCALE: 1 1/2" = 1'-0"

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Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-020:032

Revisions:

Sections and Details

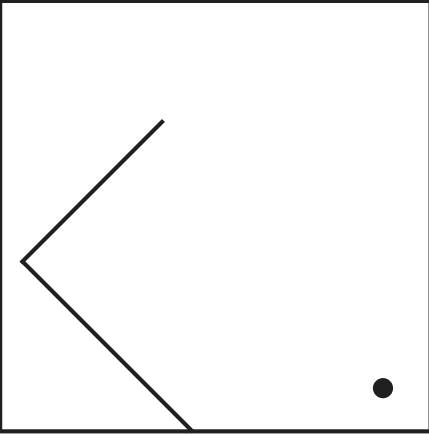
Date:	10-21-2024
Phase:	Permit Set
Drawn:	MB, AK
Job:	24-20
Sheet Number:	

A-9

Total Sheet Count: 33

DOOR SCHEDULE																
Door No.		D01	D02	D03		D04	D05	D06	D07	D08	D09	D10	D11	D12	D13	G01
Elevation																
Size	W	3'-0"	6'-0"	12'-0"		6'-0"	2'-6"	2'-4"	2'-6"	3'-0"	5'-0"	3'-0"	2'-6"	2'-6"	4'-9"	3'-0"
	H	8'-0"	8'-0"	8'-0"		8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	6'-0"	3'-10"
Room Name		Living Room	Bedroom 1	Living Room		Bedroom 2	Bath 2	Bath 2	Hall	Bedroom 2	Bedroom 2	Bedroom 1	Bath 1	WIC	Bath 1	
Type		Hinged with Sidelight	Sliding	OXXO Sliding		Sliding	Hinged	Hinged	Hinged	Hinged	Bypass	Pocket	Pocket	Pocket	Glass Shower Door System	Hinged Pair
Description		Hardwood Door and Frame	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing		Composite Frame with Insulated Glazing	Solid Core Interior Door	3/8" Frameless Glass Shower Door System	Solid Core Interior Door	Solid Core Interior Door	Solid Core Interior Door	Solid Core Interior Door	Solid Core Interior Door	Solid Core Interior Door		Solid Wood Louver
Remarks		Tempered Glazing	Tempered Glazing	Tempered Glazing		Tempered Glazing		Tempered Glazing							Tempered Glazing	

WINDOW SCHEDULE															
Window No.		W01	W02	W03	W04	W05	W06	W07	W08	W09	W10	W11	W12a	W12b	W12c
Elevation															
SIZE	W	5'-0"	2'-0"	2'-0"	4'-0"	2'-6"	2'-6"	5'-0"	6'-0"	2'-0"	2'-0"	5'-0"	2'-10"	2'-10"	2'-10"
	H	6'-0"	4'-6"	2'-0"	2'-0"	5'-0"	5'-0"	4'-6"	4'-0"	2'-0"	4'-6"	6'-0"	8'-0"	8'-0"	8'-0"
Room Name		Living Room	Bath 1	Bath 1	Bath 1	Bedroom 1	Bedroom 1	Kitchen	Bedroom 2	Bath 2	Hall	Kitchen			
Type		Dbl. Casement	Casement	Awning	Double Awning	Casement	Casement	Slider	Dbl. Casement	Awning	Casement	Dbl. Casement	Operable Louver	Operable Louver	Operable Louver
Description		Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame with Insulated Glazing	Composite Frame and Louvers	Composite Frame and Louvers	Composite Frame and Louvers
Remarks			Tempered Glazing					Tempered Glazing			Tempered Glazing		Ganged	Ganged	Ganged



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Signature

Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

Door and Window Schedule

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

A-10
Total Sheet Count: 33

Structural Notes

1. General

- 1.1.All details, sections, and notes shown on drawings are typical and shall apply to similar conditions unless otherwise noted.
- 1.2.The Contractor shall verify all dimensions and conditions at project site prior to commencement of construction.
- 1.3.All omissions or conflicts between the various elements of the working drawing and/or the specifications shall be brought to the attention of the Architect before proceeding with any work involved.
- 1.4.All work shall conform to the requirements of the International Residential Building Code 2018 Edition with local amendments.
- 1.5.The Contractor shall notify the Architect not less than two (2) working days prior to the need for field observation visits such as before concrete pours or installation of insulation and drywall.
- 1.6.The Contractor shall immediately notify Architect of any condition which may endanger the stability of the structure or cause visible distress in the structure.
- 1.7.All work shall conform to the best practice prevailing in the various trades comprising the work.
- 1.8.The Contractor shall provide adequate bracing and shoring for all structural members during all phases of construction.
- 1.9.The Contractor shall ensure proper placement of all openings, sleeves, curbs, conduits, bolts, inserts, etc., prior to pouring of concrete.
- 1.10.All conditions of potential instability of embankments. cut or fill slopes should be brought to the attention of the Architect.

2. Foundation

- 2.1.All foundation excavations shall be kept clear of water at all times. The bottom of the footing excavation shall be neat and free of loose soils and debris.
- 2.2.The finish grade outside the slab shall be shaped to shed water away from the foundations and to avoid ponding conditions near the slab area. Roof water shall be diverted away from the perimeter footings.
- 2.3.If a footing is located next to a utility line, it shall extend to the bottom of the utility trench to reduce settlement of the trench backfill.
- 2.4.Fills and backfills shall be clean granular fill placed in 8 inch lifts and compacted to a minimum of 95% of its dry density. Any on-site clay soil or debris shall not be used for fill material below structures. Architect is not responsible for checking soil compaction or soil conditions.
- 2.5. Fill areas shall be cleared of vegetation, debris, and organic matter prior to filling.

3. Concrete and Reinforcing

- 3.1.Use Type I or II cement conforming with ASTM C-150. Concrete shall have compressive strengths at 28 days as follows:
Slab on grade - 3,000 psi - min. 5 sacks of cement
Concrete footings - 3,000 psi - min. 5 sacks of cement
Misc. concrete - 3,000 psi - min. 5 sacks of cement
Hardrock aggregate shall conform to ASTM C-33 and shall be one inch maximum size
- 3.2.Concrete protection for reinforcement shall be as follows:
Footings and slab on grade - 3 inches
Concrete exposed to weather or ground (formed) - 2 inches
- 3.3.Maximum slump for all concrete shall be 4 1/2 inches.
- 3.4.Drypack concrete shall be one part Portland Cement and one part sand with sufficient water to allow a small amount of paste to come to the surface.
- 3.5.All reinforcing steel shall be new stock deformed bars conforming to ASTM A-615 Grade 60 unless otherwise noted. Placement of reinforcing steel shall be in accordance with ACI 315 and ACI 318. All reinforcing steel shall be clean of rust, grease or other materials likely to impair bond. All bends shall be made cold.
- 3.6.All reinforcing steel shall be accurately and securely placed.
- 3.7.All reinforcing steel shall be lapped minimum 30 bar diameters or 24 inches, whichever is greater, at splices u.o.n. All splices shall be made away from point of maximum stress.
- 3.8.Wire mesh shall conform to ASTM A-185, supported by suitable reinforcing steel "chairs", or provide masonry blockouts as chairs. Provide a minimum 8 inch lap.
- 3.9.Statement of mix design shall be made for all concrete. The average trial batch strength shall exceed the specified strength, F'c by 15%.

4. Concrete Masonry Unit

- 4.1.Masonry units shall be Grade N-1 Standard weight units conforming to ASTM C-90 with F'm + 1800 psi. Masonry units shall be clean and free of all substances that may impair bond. All masonry walls shall be laid with running bond.
- 4.2.Mortar mix shall be one part Portland cement, three parts sand, one fourth part lime putty by volume of cement and shall conform to ASTM C-270. Water content shall be the minimum required for working consistency. Twenty-eight day ultimate strength shall be 2,500 psi.
- 4.3.Grout all cells solid throughout. Height of grout lift shall be 5'-4". Grout mix shall be one part Portland cement, three parts sand and (optional) one tenth part lime putty. Grout for spaces wider than two inches shall contain in addition, 1 1/2 parts pea gravel, making a 1 : 3 : 1 1/2 mix. Sufficient water may be added to provided pouring consistency without segregation. The twenty eight day ultimate strength of the grout shall be 3,000 psi (provide minimum 5.0 sacks of cement).
- 4.4.Masonry units shall be laid to provide unobstructed vertical continuity of grout spaces. When grouting is stopped for longer than one hour, construction joints shall be formed at the top of the grout lift by stopping pour three fourth inches minimum below top of uppermost lift.
- 4.5.Unless otherwise noted, lap all masonry reinforcing 40 bar diameters or 24 inches, which ever is greater. All vertical reinforcing shall be doweled (same size and spacing as vertical bars) to foundation wall or footing below. Horizontal reinforcing shall be continuous at all intersecting walls and at all corners.

5. Lumber

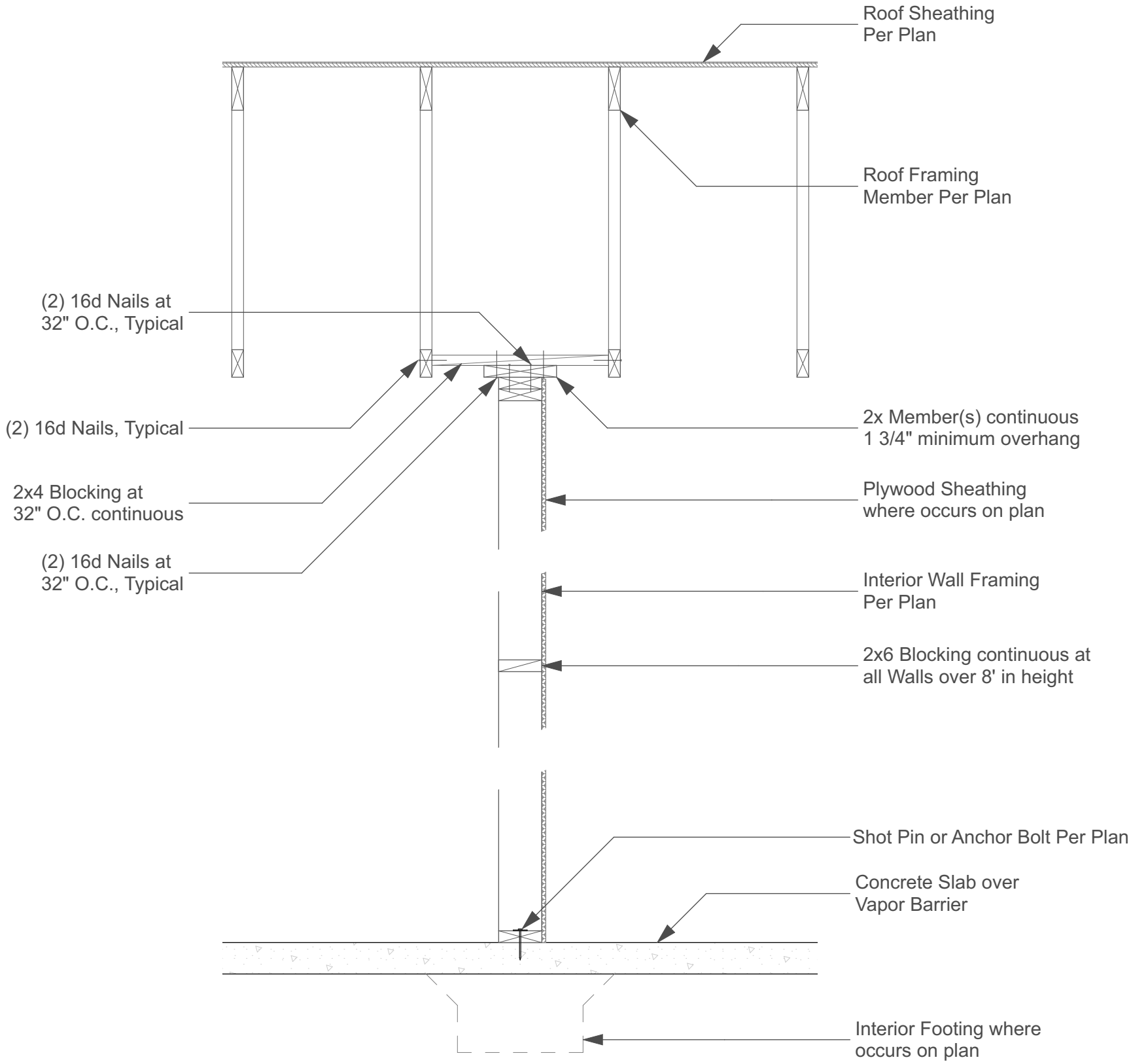
- 5.1.All lumber shall conform to A.I.T.C. Construction manual (Latest edition).
- 5.2.All framing lumber (joists, beams, rafters and posts) shall be surface dry Douglas Fir in accordance with W.W.P.A. or W.C.L.B. standards and shall be dried to 19% or less moisture. All framing lumber shall be free from diagonal or spiral grain having a slope greater than one inch in ten inches and shall be of grade no. 1 or better (fb = 1,650 psi) All posts and beams shall be 75% free of heart cores.
- 5.3.Holes for bolts shall be drilled 1/32" to 1/16" larger than bolt diameter u.o.n. All bolts and nuts at lumber surfaces shall be fitted with steel washers u.n.o.
- 5.4.No structural member shall be cut or notched for any opening unless specifically shown on the drawings or approved in the field by the Architect.
- 5.5.Install all Simpson metal framing connectors as shown on these drawings and as recommended in Simpson catalog (Latest edition)
- 5.6.All 5/8" plywood shall be of structural 1 grade with P.I. index of 40/30 exterior.
- 5.7.All framing lumber, studs, beams and framing plywood shall be treated in strict accordance with the standards of the American Wood Preserver's Association. After cutting treated lumber, apply a concentrated solution of the original preservative to the exposed area.
- 5.8.All nails shall be common wire nails unless otherwise noted. Nails shall not be driven closer together than one half of there length nor closer to the edge of the member than 1/4 of their length and shall be pre-drilled where wood tends to split. The penetration of the nails into the pieces receiving the point shall not be less than 1/2 of the nail length.
- 5.9.Nailing Schedule:
Blocking to joist, toe nail each end - (3) 16d
Top and Bottom Plate to Stud, end nail - (2) 16d 2x4 Framing / (3) 16d 2x6 Framing
Built-up studs, face nail - (2)16d @ 12" o/c (stagger per layer) Double top plates, face nail - (2) 16d @ 16" o/c
Top plate laps and intersections, face nail - (4)16d each side of lap or at intersection
King studs to Headers - (6) 16d
Trimmers to King Studs - (2)16d @ 12" o/c
Plywood sheathing (nailed to framing) - Per plan and see notes below

6. Nailing Notes

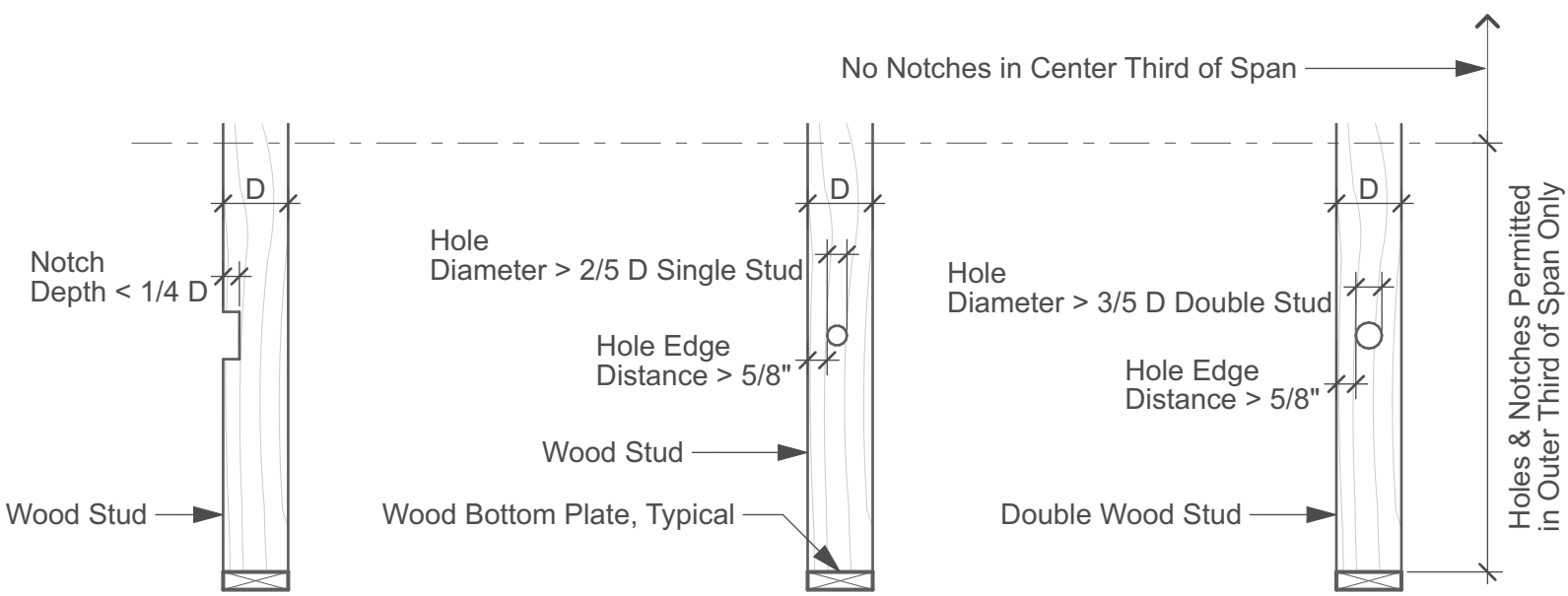
- 6.1.Plywood Roof Decking: All plywood shall be 19/32" T&G structural I with P.I. index of 40/20. All plywood shall be termite treated. If butt joints are used, provide solid blockings at all joints. Nail all plywood to all joists, beams, blockings, ledgers and wall top plates and blockings. Provide 8d nails at 6" o/c on all perimeters and 12" o/c on all intermediate supports per 4x8 plywood sheet. Provide 8d nails at 4" o/c on all the perimeters of the roof and at all masonry wall locations.
- 6.2.Floor Plywood: All floor plywood shall be 23/32" Structural I with P.I. index of 48/24. All plywood shall be T&G. If butt joints are used, provide solid blockings at all joints. Glue and nail all plywood to all joists, beams, blockings, ledgers and wall to plate and blockings. Provide continuous glue bead on all supporting members and blockings. Care shall be taken so that the glue does not harden prior to nailing the plywood. Glue shall conform to A.P.A. specifications AFG-01. Contractor to provide type and make of glue that he/she intends to use for approval. Provide 8d nails @ 6" o/c on all perimeters and 12" o/c on all intermediate supports per 4x8 plywood sheet. Provide 8d nails @ 4" o/c on all perimeters of the floor.
- 6.3.All Exterior Plywood Wall Sheathing: Provide 15/32" structural II plywood for exterior use only. P.I. index for all wall plywood shall be 40/20. All plywood shall be installed in horizontal layout. Nail plywood to all top plates, bottom plates, all studs and blockings. Provide 8d common galvanized nails at 4" o/c on all top and bottom plates and 8" o/c on all other members.

7. Structural Steel

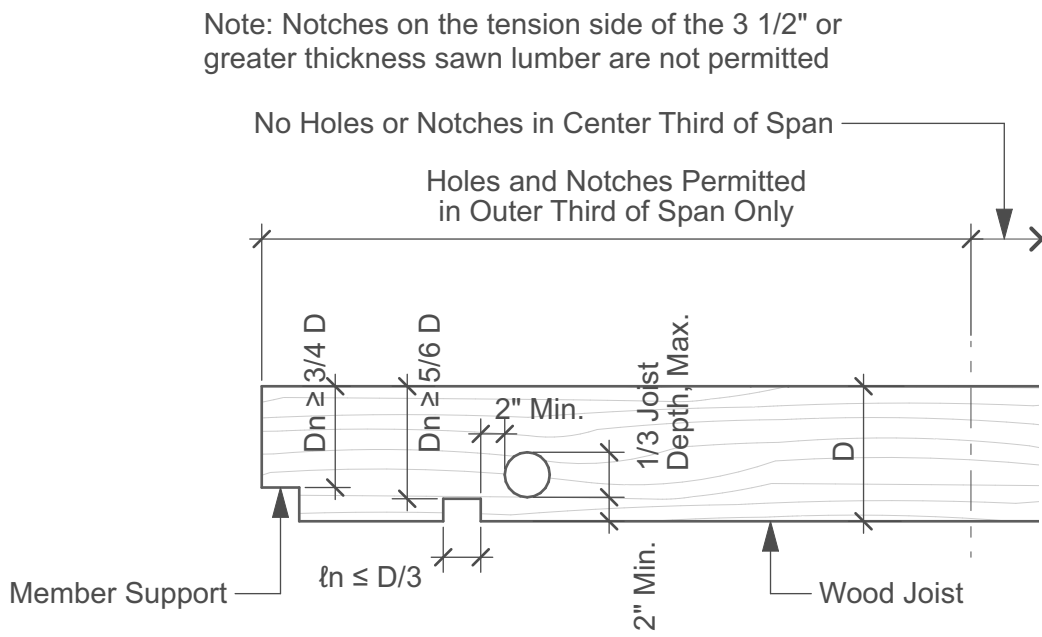
- 7.1.Fabricated and erect Structural Steel components and Miscellaneous Iron according to the American Institute of Steel Construction Specification for Design, Fabrication, and Erection of Structural Steel Buildings, latest edition and the Code for Standard Practice for Steel Buildings and Bridges latest edition.
- 7.2.Unless otherwise noted, steel shall conform to ASTM A992 (Fy=50 ksi). Steel pipe shall conform to ASTM A501 (Fy=36 ksi). Hollow Structural Sections shall conform to ASTM A500 Grade B (Fy=46 ksi). All steel plates, bars and other shapes shall conform to ASTM A-36.
- 7.3.All steel to steel bolted connections shall be made with high strength bolts according to ASTM A325, as approved by the Research Council of Riveted and Bolted Structural Joints. Common (or Machine) bolts conforming to ASTM A307 may be used where specifically noted on the details. Welded stud connectors shall be as specified in AWS-D1.1, latest edition, Type B made from ASTM A106 material (Fy=60 ksi). Anchor Bolt Rod Material shall Conform to ASTM F1554, Grade 36 unless otherwise noted.
- 7.4.Weld connections according to the Structural Welding Code - Steel, AWS-D1.1, latest edition. Welding shall be performed by welders certified for the welds to be made. All welding should be done with E70XX electrodes, unless noted otherwise. Refer the Specifications for the welding process to be used. All welds exposed to the weather shall be grounded smooth and painted with 2 coats of Z.R.C. cold galvanizing compound.
- 7.5.The weld lengths called for on the Structural Drawings are the net effective length required.
- 7.6.Anchor plates embedded in concrete and steel work exposed to the weather shall be hot-dipped, galvanized after fabrication. Galvanize according to ASTM A123, hot dip process. Structural steel surfaces that are encased in concrete, masonry, or spray on fireproofing, or are encased by building finish shall be left unpainted.



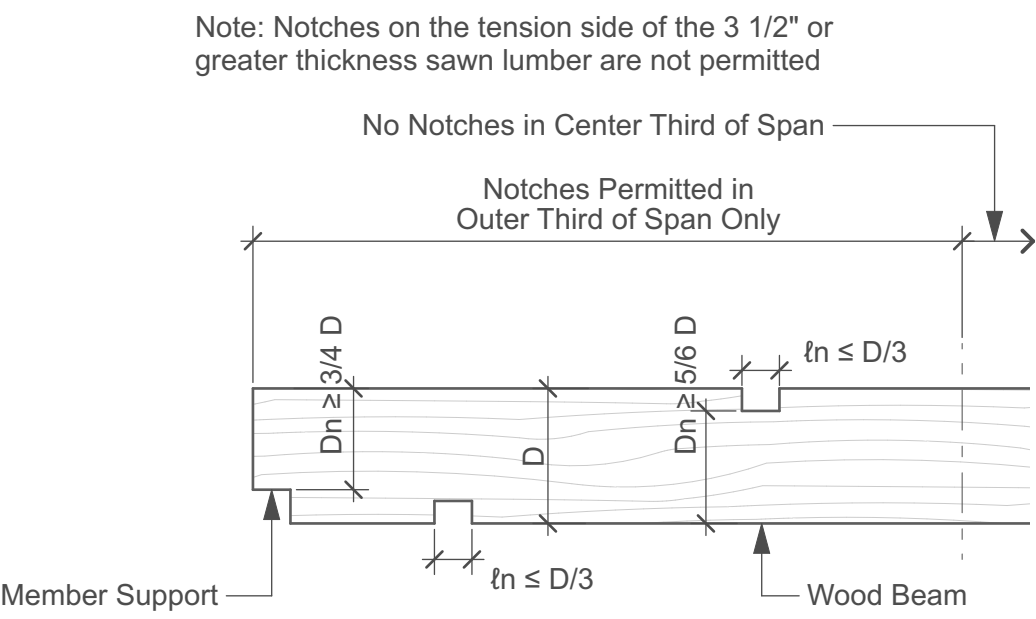
1 Typical Interior Wall Framing Section
SCALE: 3/4" = 1'-0"



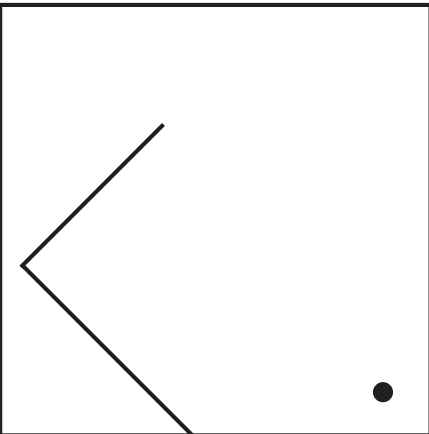
2 Hole and Notch Limitations for Studs
Scale: 3/4" = 1'-0"



3 Hole and Notch Limitations for Sawn Joists and Rafters
Scale: 3/4" = 1'-0"



4 Hole and Notch Limitations for Sawn Lumber Beams
Scale: 3/4" = 1'-0"



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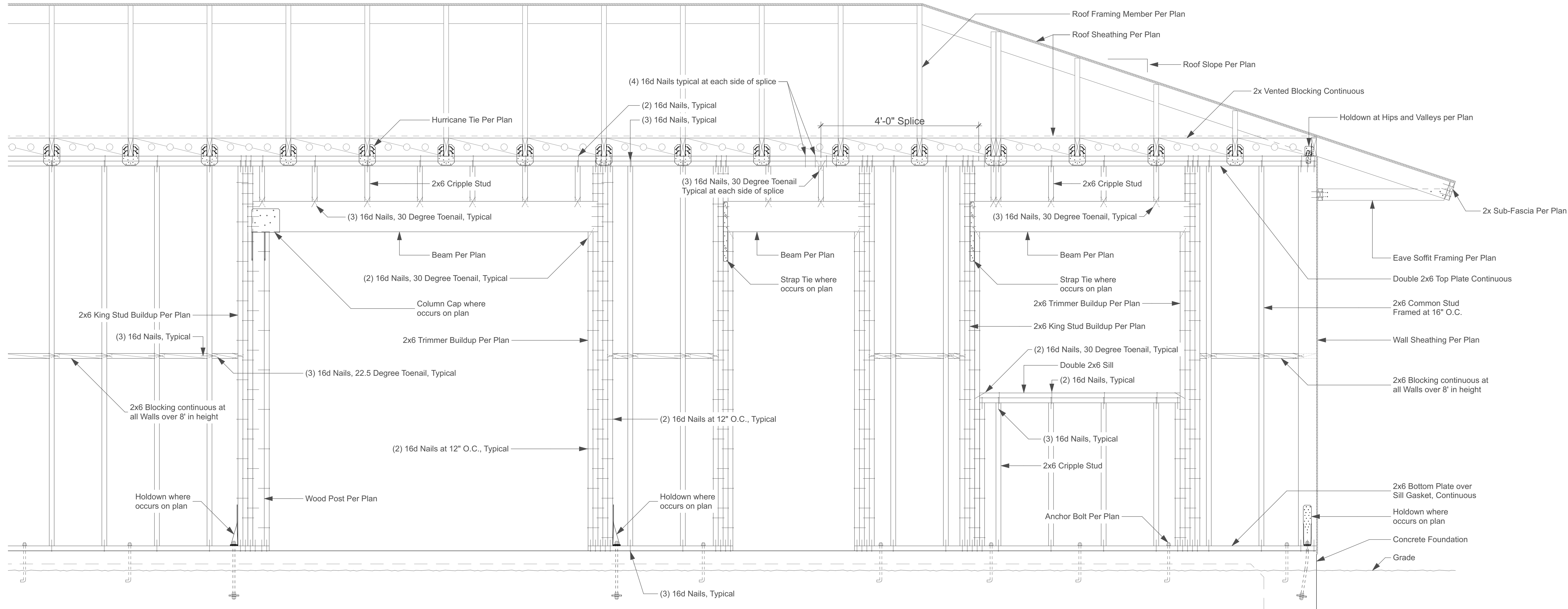
Proposed Second Farm Dwelling
Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

Structural Notes and Typical Details

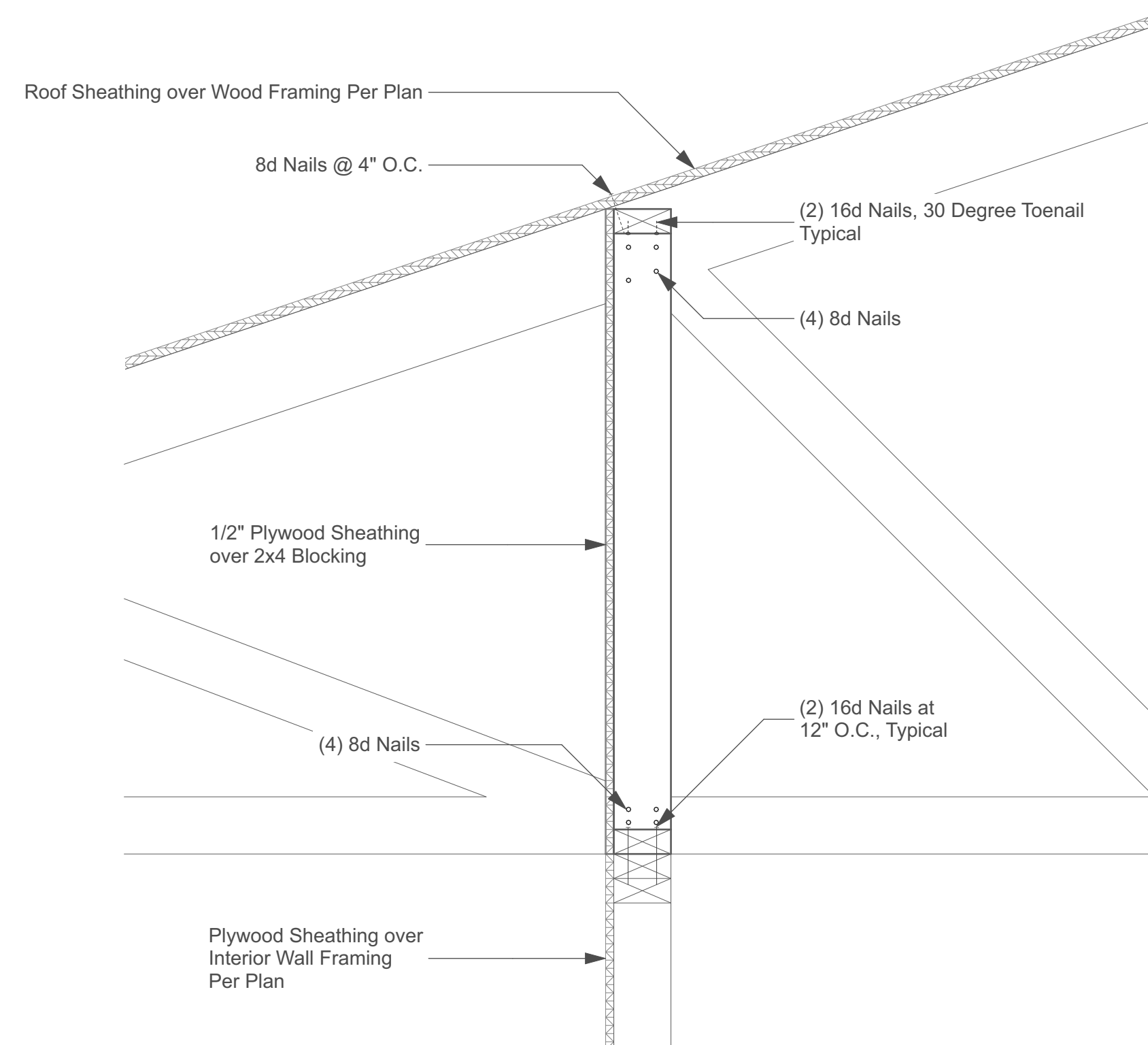
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Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

S-0
Total Sheet Count: 33

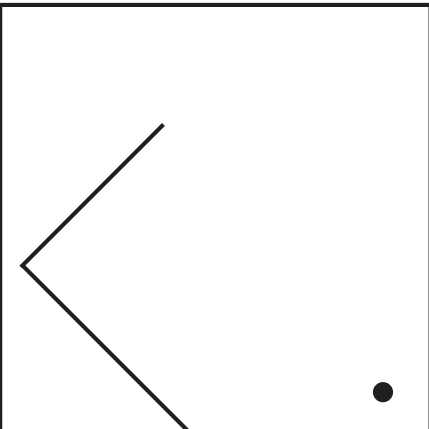
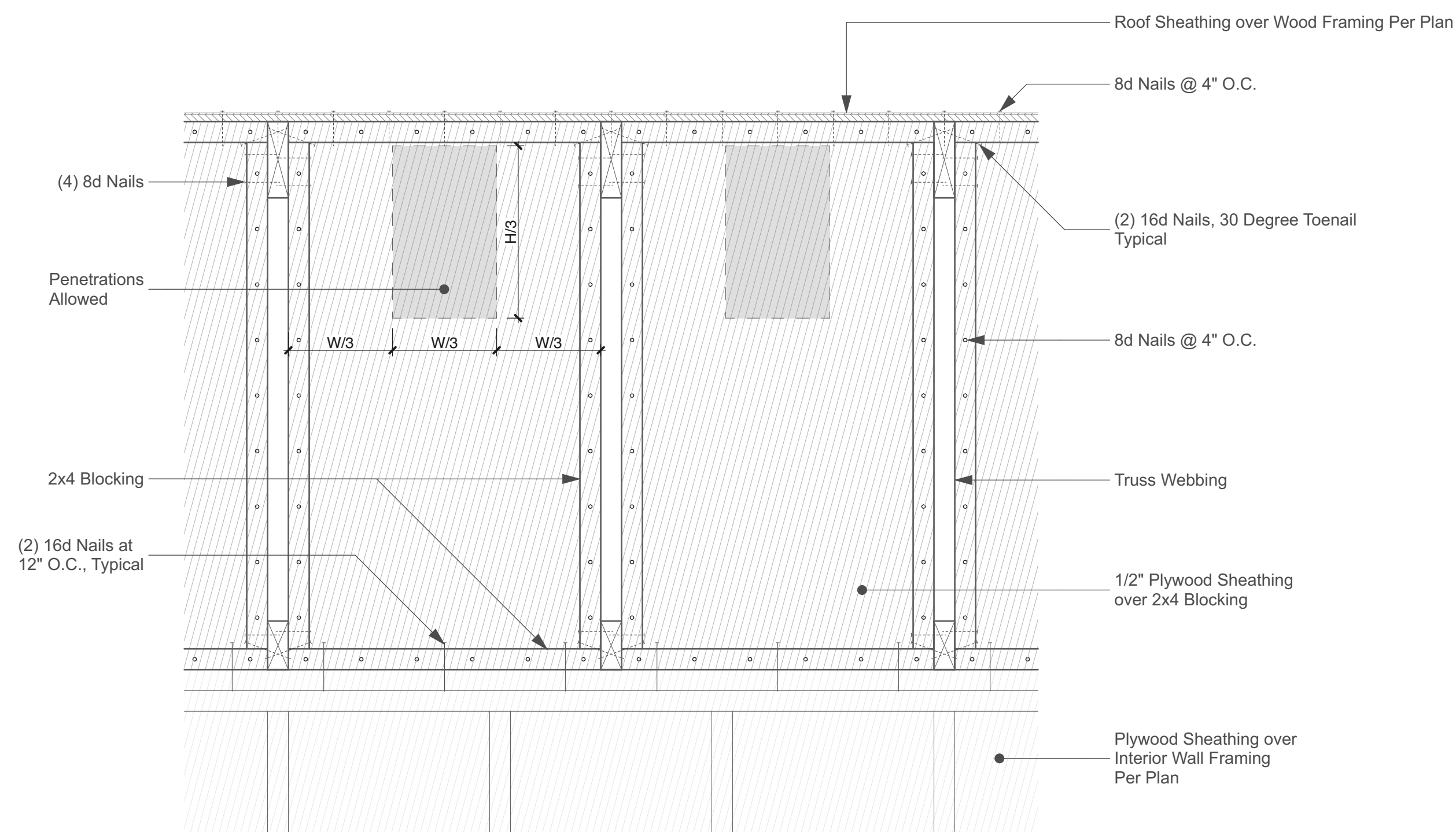


1 Typical Exterior Wall Framing Elevation - Slab on Grade
Scale: 3/4" = 1'-0"

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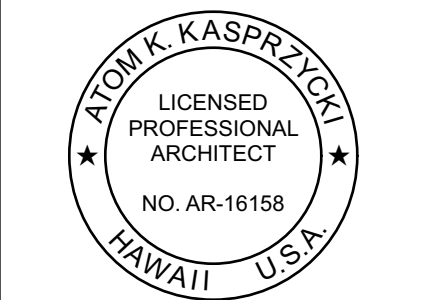


2 Shear Wall Perpendicular to Truss
Scale: 1 1/2" = 1'-0"



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Proposed Second Farm Dwelling
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Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

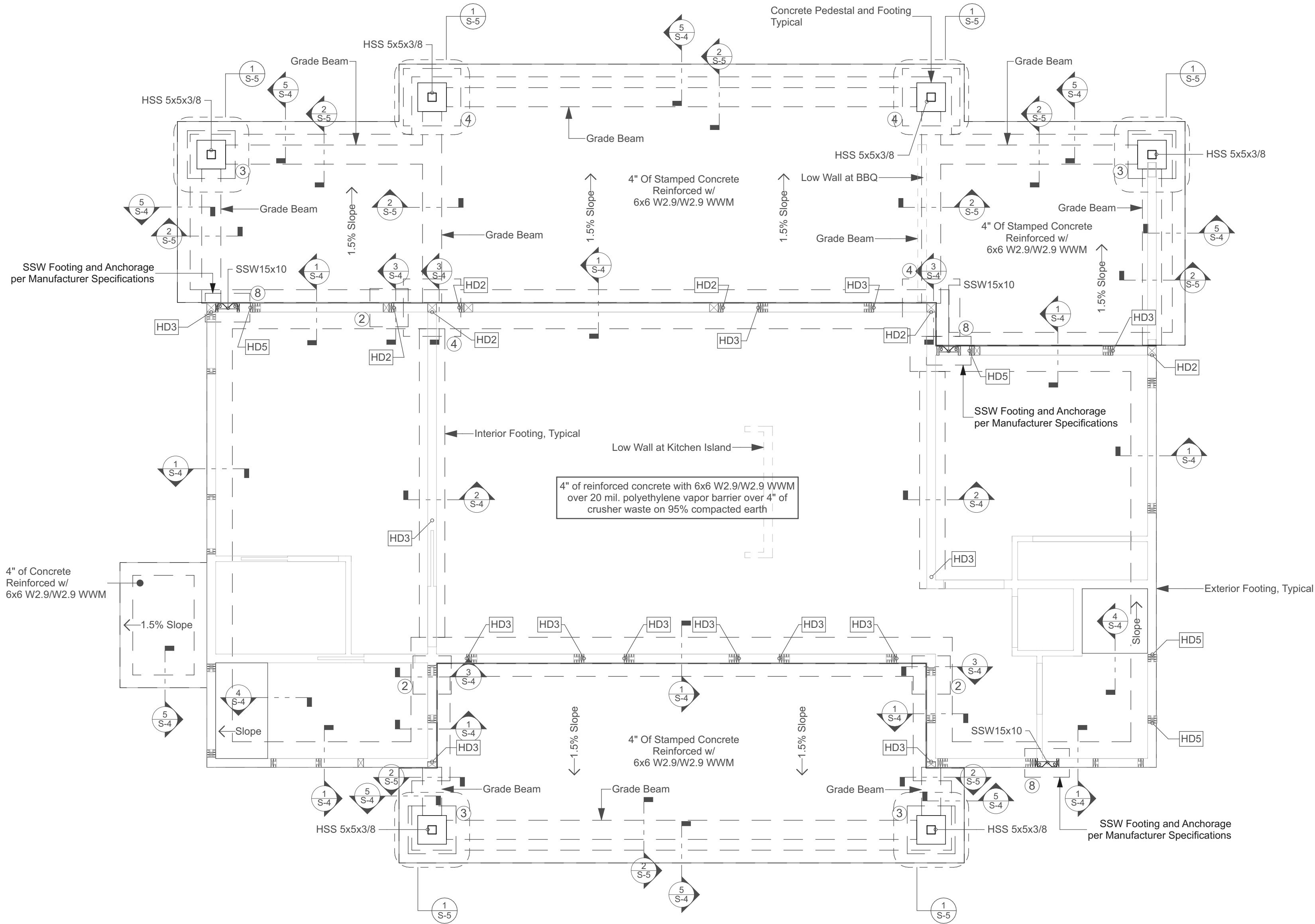
Typical Structural Details

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

S-1
Total Sheet Count: 33

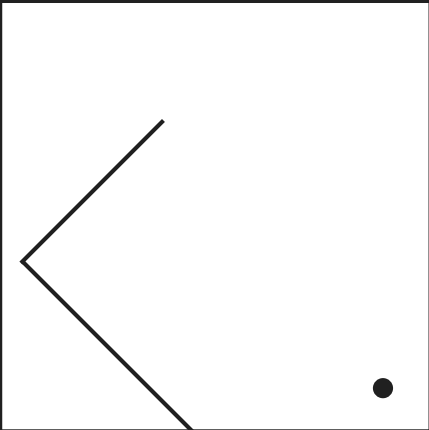
Concrete Pier Schedule				
Type	W	L	Depth	Reinforcing Bars
①	18"	18"	12" Min.	(3) #4 Each Way
②	24"	24"	12" Min.	(3) #4 Each Way
③	30"	30"	12" Min.	(4) #4 Each Way
④	36"	36"	12" Min.	(4) #4 Each Way
⑤	42"	42"	12" Min.	(5) #4 Each Way
⑥	48"	48"	12" Min.	(5) #5 Each Way
⑦	54"	54"	18" Min.	(5) #5 Each Way
⑧	18"	30"	18" Min.	#4 at 12" O.C. Each Way

Holdown Schedule	
Number	Type
HD1	HDU11-SDS2.5
HD2	HDU8-SDS2.5
HD3	HDU5-SDS2.5
HD4	HDU4-SDS2.5
HD5	HDU2-SDS2.5



1 Foundation Plan
Scale: 1/4" = 1'-0"

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Proposed Second Farm Dwelling
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Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

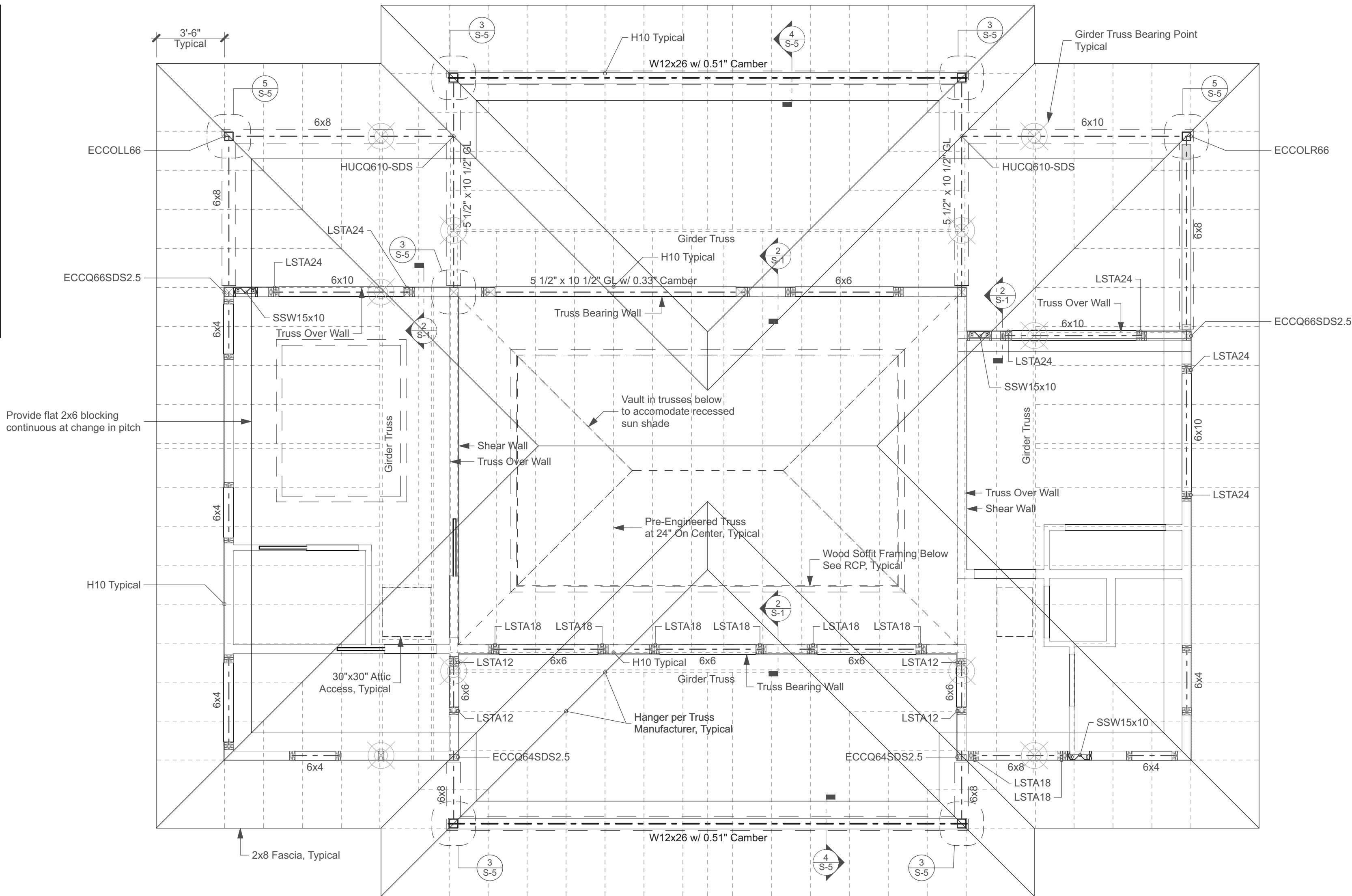
Foundation Plan

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

S-2
Total Sheet Count: 33

Roof Framing Notes

- Framing Notes
 - Exterior walls consist of 2x6 studs spaced at 16" on center with a double top plate and single bottom plate, unless otherwise noted.
 - Interior walls are per plan and consist of 2x6 studs or 2x4 studs spaced at 16" on center with a double top plate and single bottom plate, unless otherwise noted.
 - All solid sawn posts and beams to be Grade No. 1 or Select Structural.
 - All Structural Glue Laminated Timber (Glulam / GL) to be Visually Graded Western Species 24F-V4.
 - Cambers specified represent designed total deflection after members are loaded. Unless otherwise noted cambers may be reduced or omitted to conform to manufacturer tolerances. If cambers are modified contractor shall account for designed total deflections in execution and performance of all work.
- Framing Hardware Notes
 - All hardware noted as Typical shall be used in all like conditions. All hardware specified without being referenced as Typical is unique to that location only.
 - (1) Simpson H10A typical at every truss, rafter and roof framing member.
 - (1) H10A-2 at all two-ply truss to plate locations.
 - (2) H2.5A (one each side of truss member) at all three-ply and greater truss to plate locations unless otherwise noted.
 - (2) HGA10, one each side of truss hip or valley member securing member to top plate.
 - At all locations where a truss runs parallel with, and sits on top of, a wall provide (1) A36 at 12" O/C continuous.
 - When installing LSTA Strap Ties at post to beam connections, off set strap from center of post to provide room to nailing off wall sheathing to post.
- Sheathing and Nailing Notes
 - All exterior walls are to be sheathed with 15/32" CDX treated plywood
 - Exterior wall / Shear Wall Nailing Schedule: 8d Box Nail 4" o/c (edge) 6" o/c (field)
 - Roof Sheathing: 19/32" CDX treated plywood, provide Simpson PSCL5/8 panel clips.
 - Roof Sheathing Nailing Schedule: 8d Box Nail 4" o/c (edge) 6" o/c (field)
- Pre-Engineered Truss Roof Framing Notes
 - A Pre-Engineered Truss Roof Framing System shall be used with trusses spaced at 24" o/c, Typical.
 - Truss manufacturer to design trusses to accommodate a total Dead Load of 28 PSF.
 - Any truss shown intersecting with another truss will be supported by the truss intersected with unless otherwise noted.
 - Truss manufacturer to provide continuous 2x vented blocking with stainless steel insect screens
 - Contractor to provide Truss Manufacturer Shop Drawings to Architect for approval prior to ordering any materials and commencement of any construction.
 - Provide double stud minimum at all two-ply truss locations and triple stud minimum at three-ply truss locations unless otherwise noted.

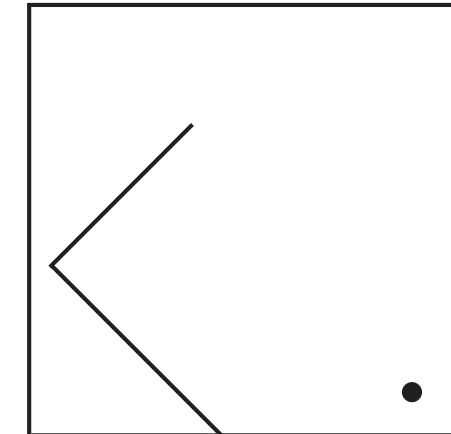


1 Roof Framing Plan
Scale: 1/4" = 1'-0"

ROOF CONSTRUCTION AND COVERING
ROOFING TO BE INSTALLED PER
MANUFACTURER'S INSTALLATION
SPECIFICATIONS

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HAWAII REVISED STATUTES, Section 196-6.5
A solar water heater system is required for all
new single family dwellings



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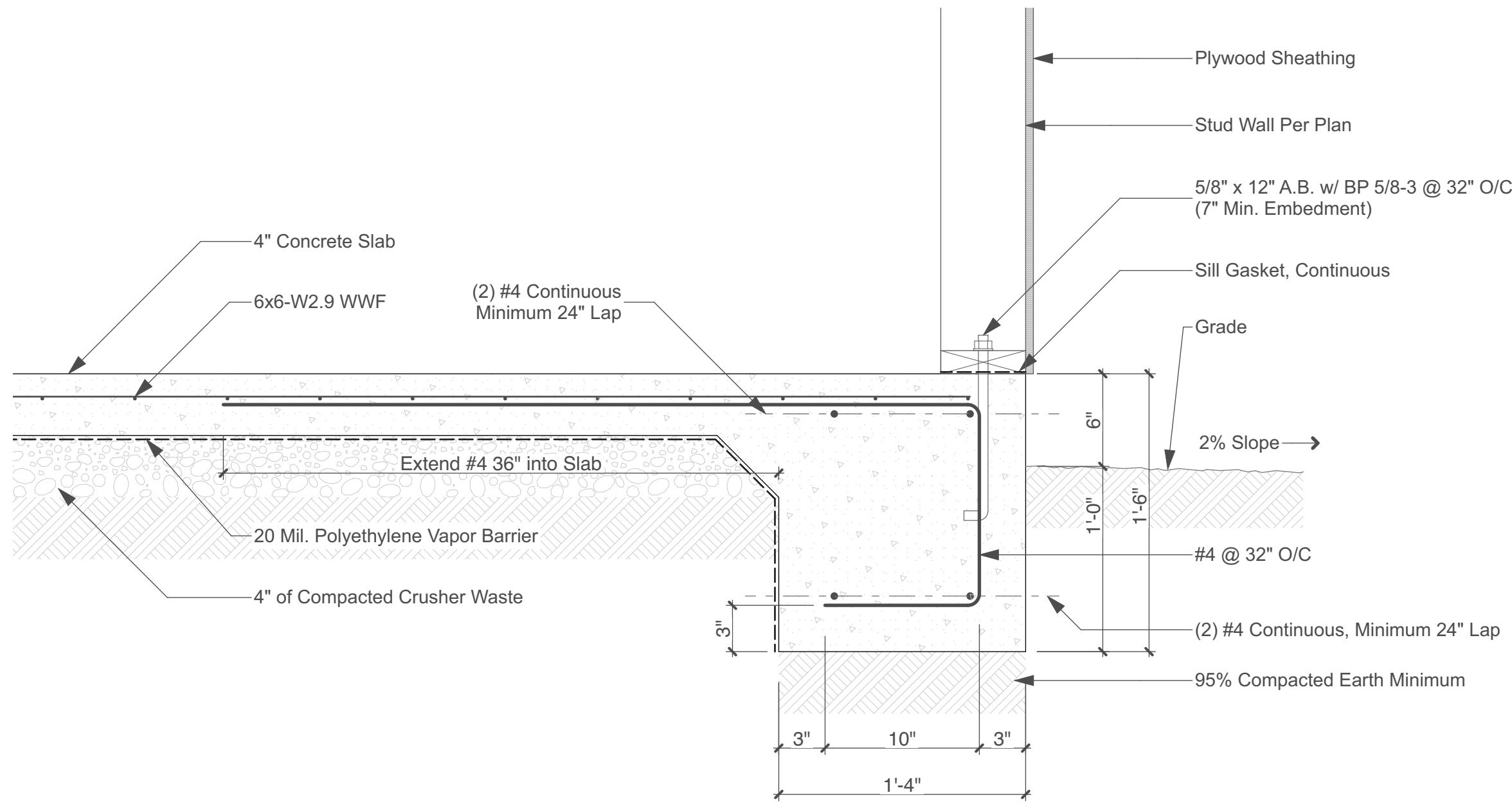
Proposed Second Farm Dwelling
Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-020:032

Revisions:

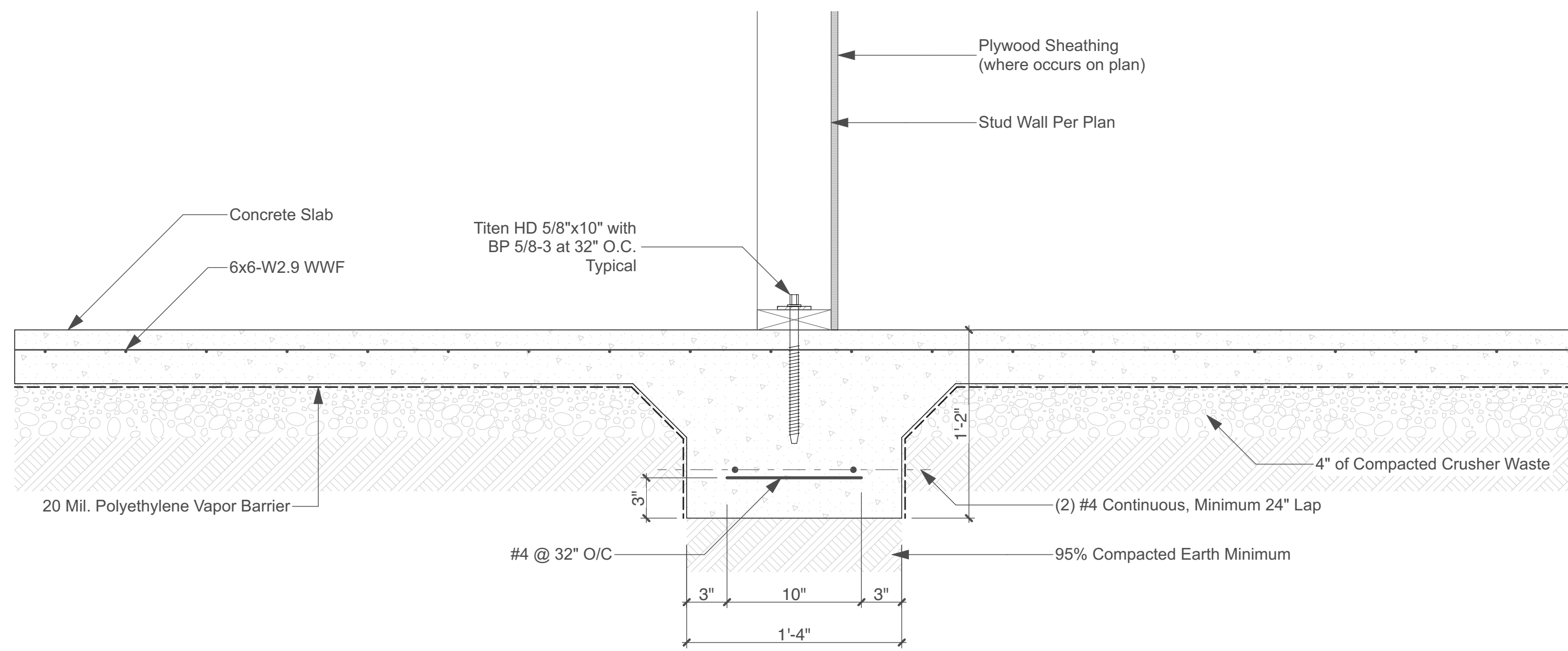
Roof Framing Plan

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

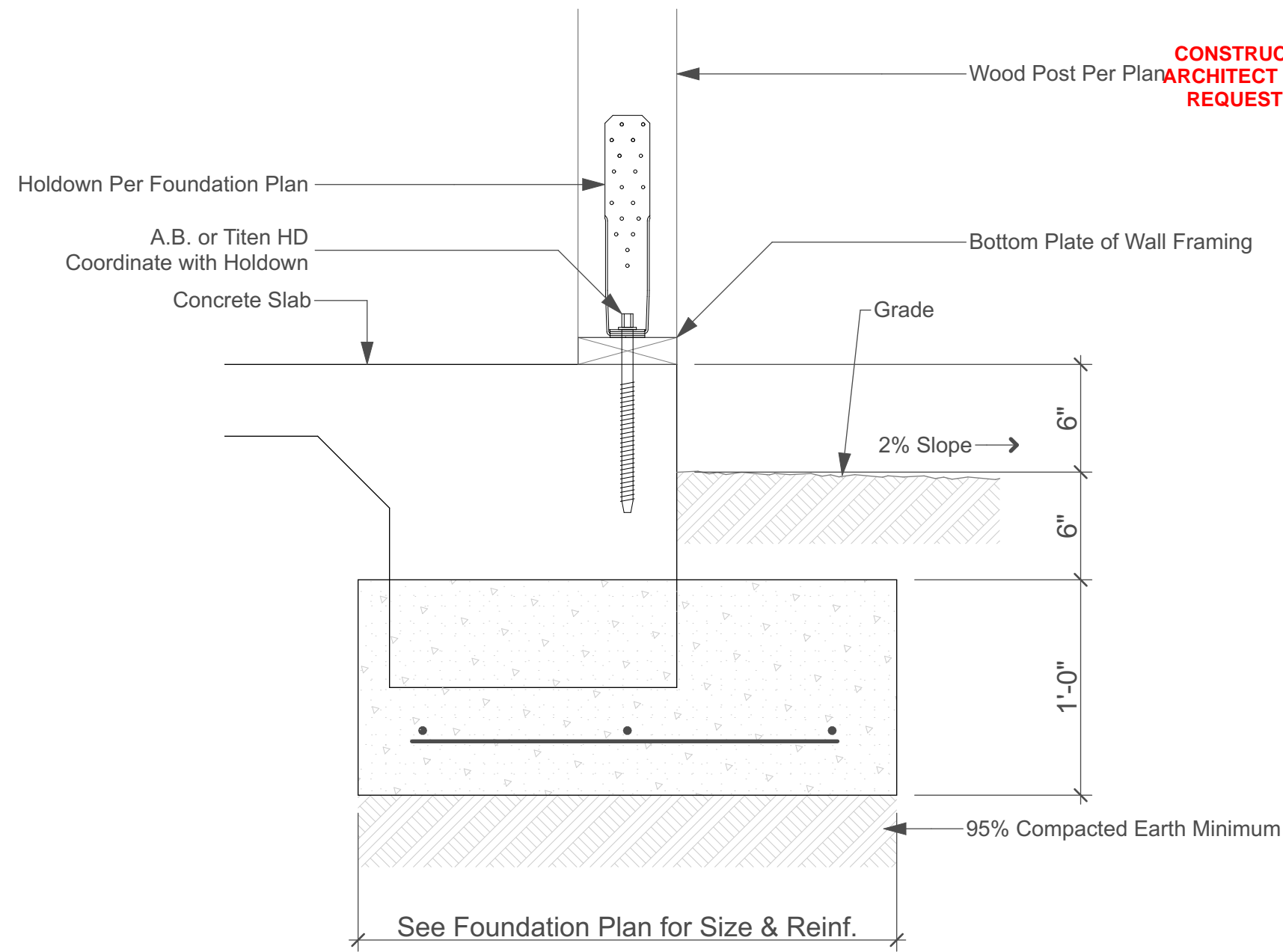
S-3
Total Sheet Count: 33



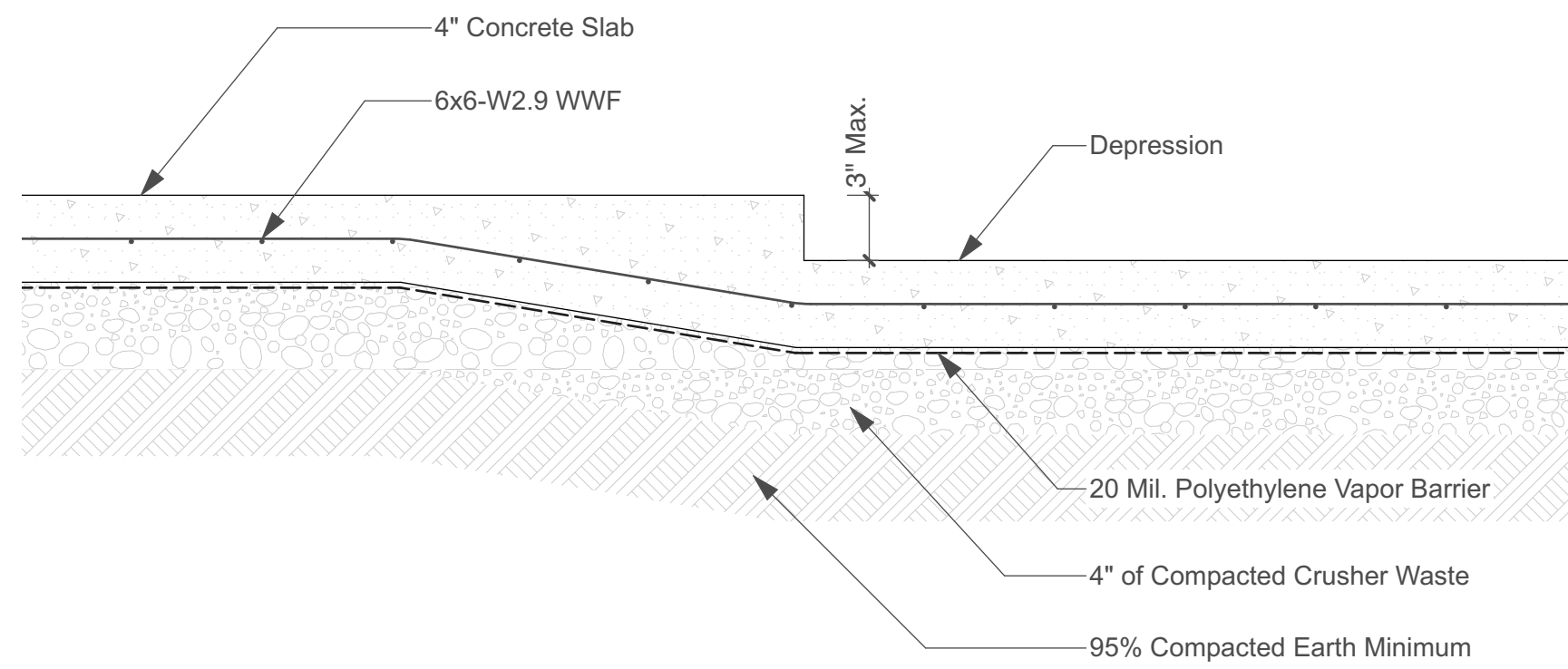
1 Exterior Spread Footing, 2x Wall
SCALE: 1 1/2"= 1'-0"



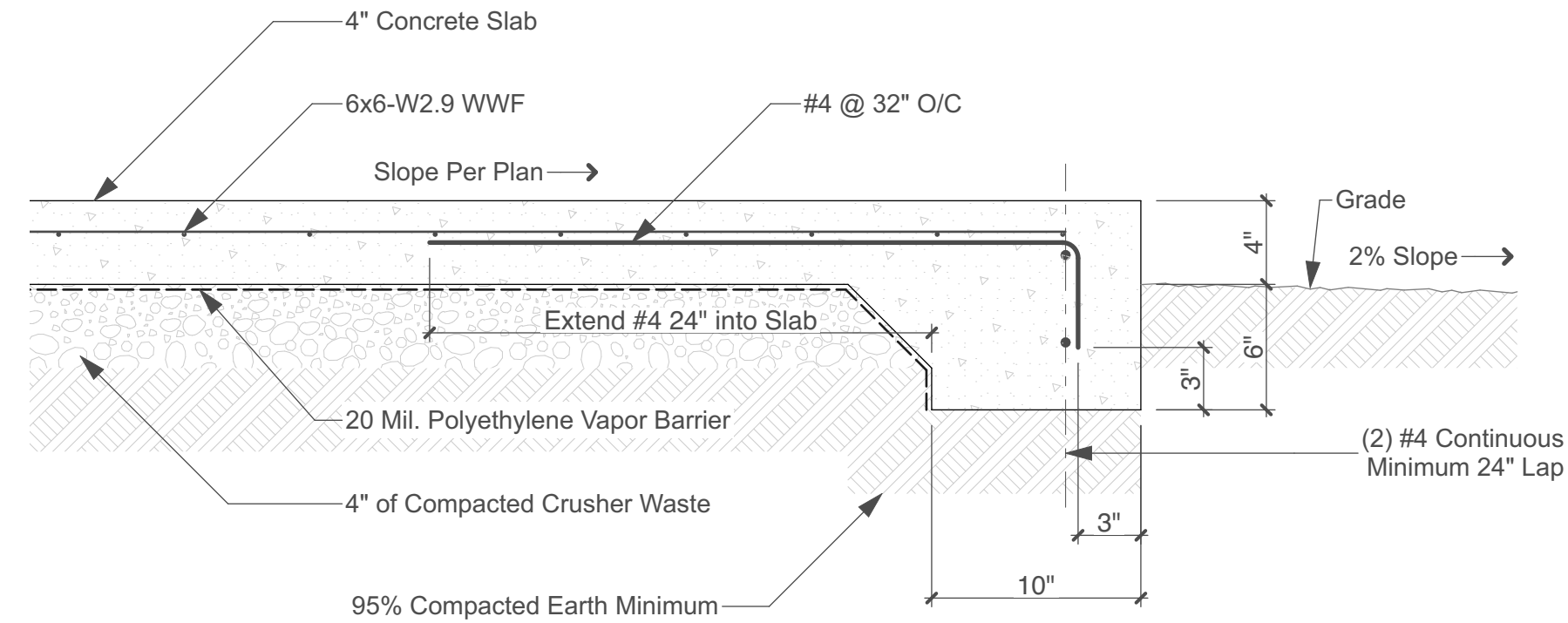
2 Interior Spread Footing - Shear Wall Generic
SCALE: 1 1/2"= 1'-0"



3 Pier Footing @ Spread Footing
SCALE: 1 1/2"= 1'-0"



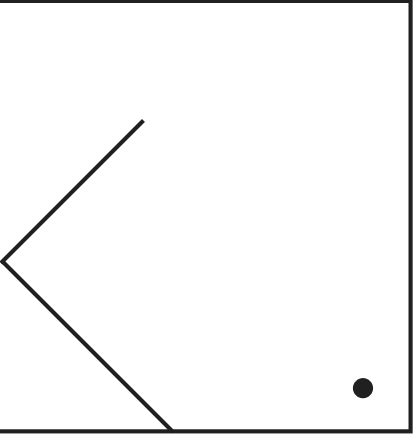
4 Depression In Slab
SCALE: 1 1/2"= 1'-0"



5 Thickened Edge
SCALE: 1 1/2"= 1'-0"

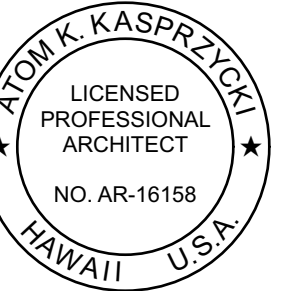
CONSTRUCTION SHALL BE APPROVED BY AN
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PROVIDE EARTH AND WOOD SEPARATION
AND DRAINAGE AWAY FROM BUILDING PER
CURRENT BUILDING & RESIDENTIAL CODES



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Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-020:032

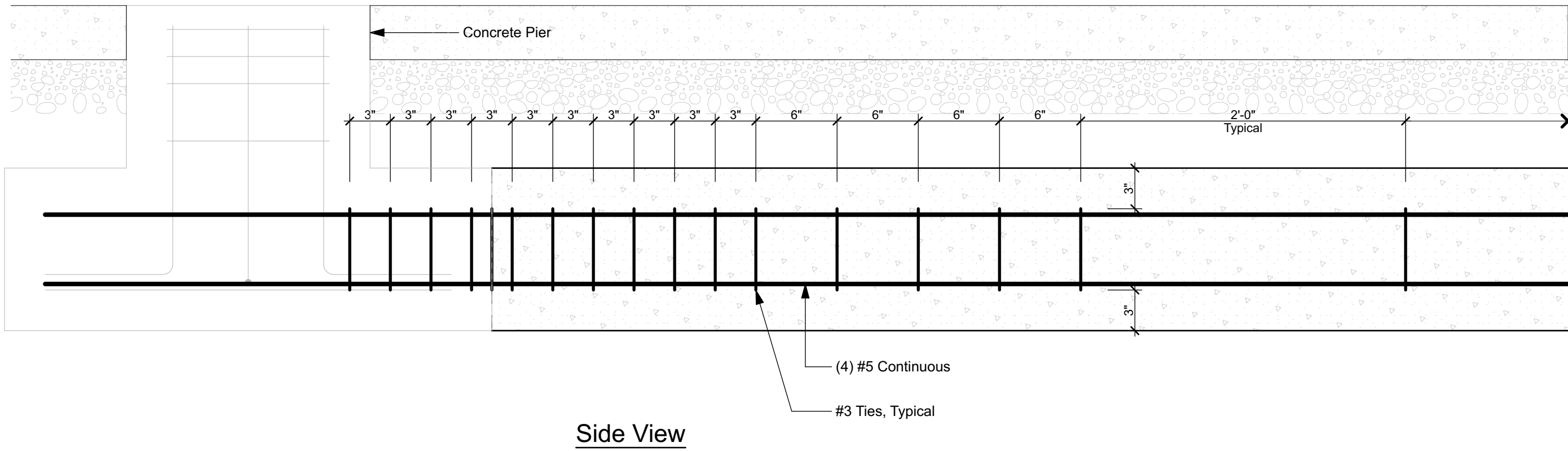
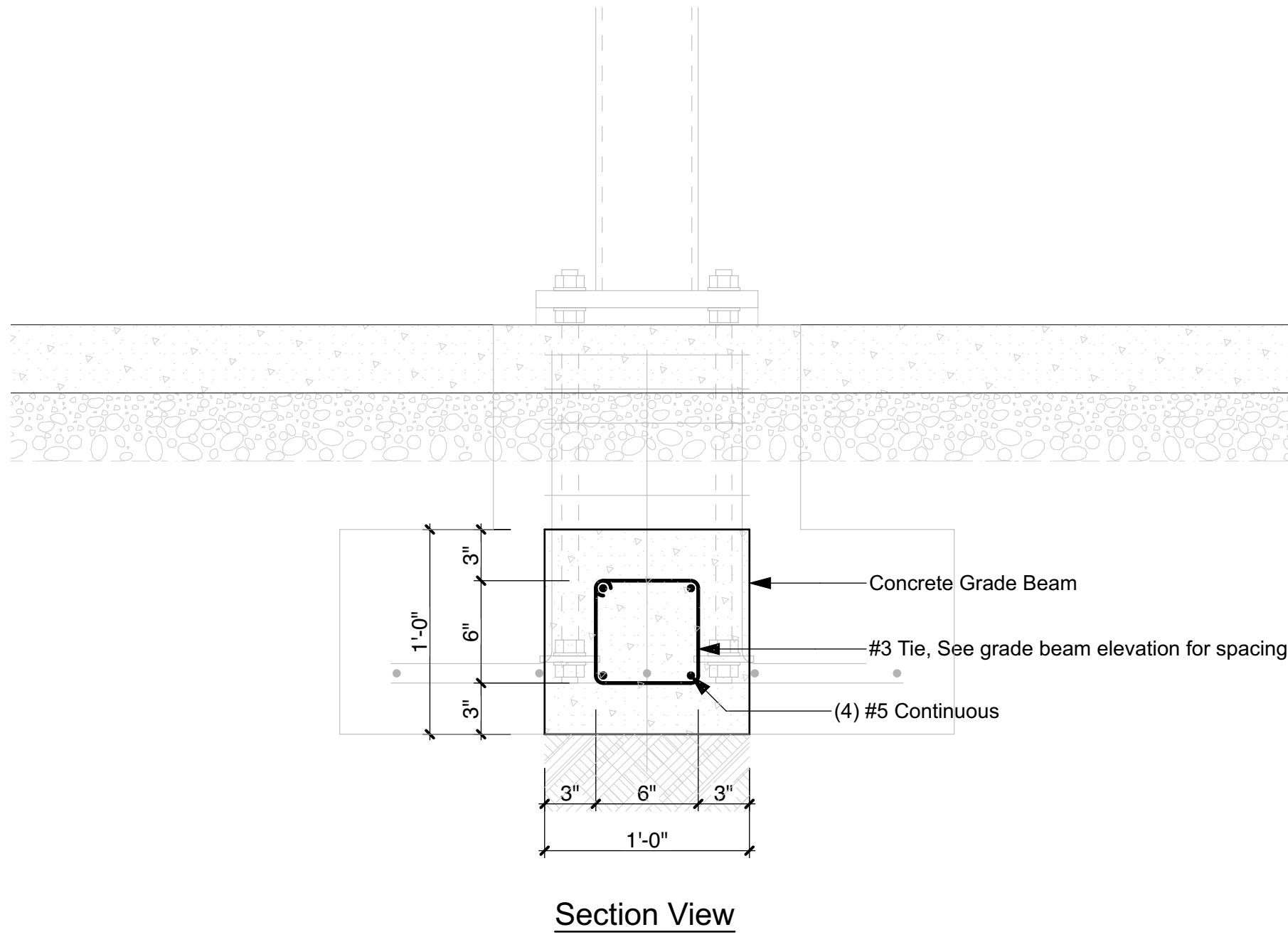
Revisions:

Structural Details

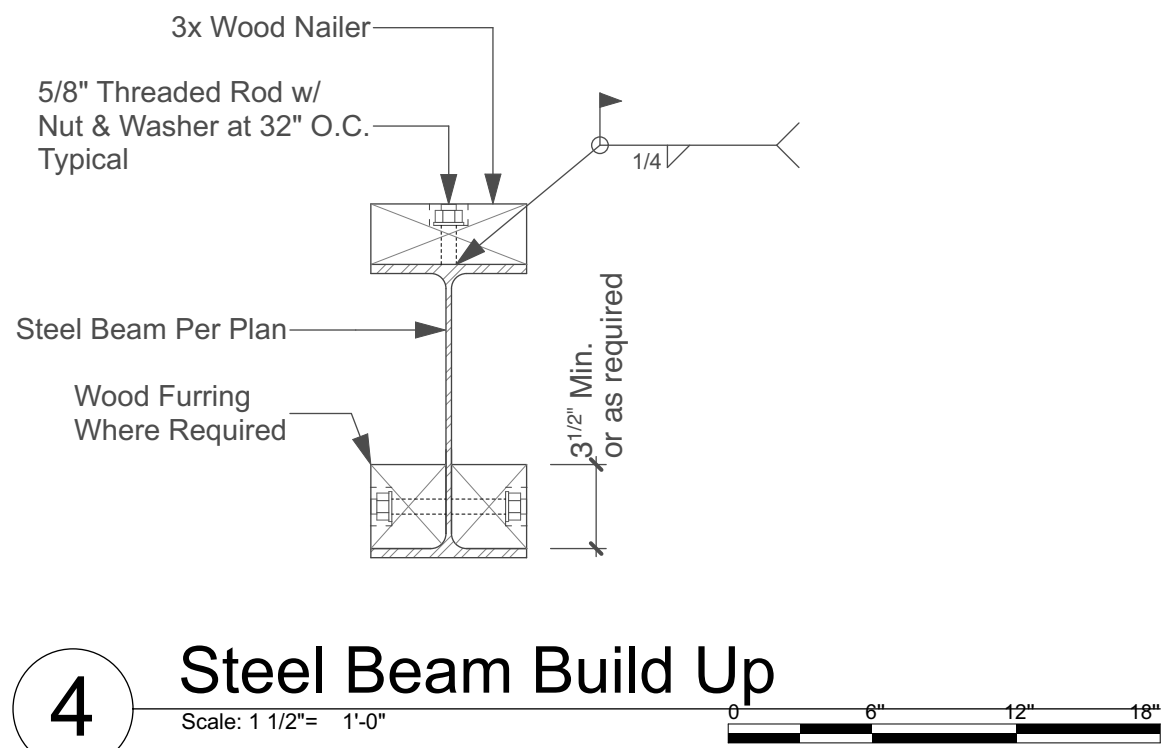
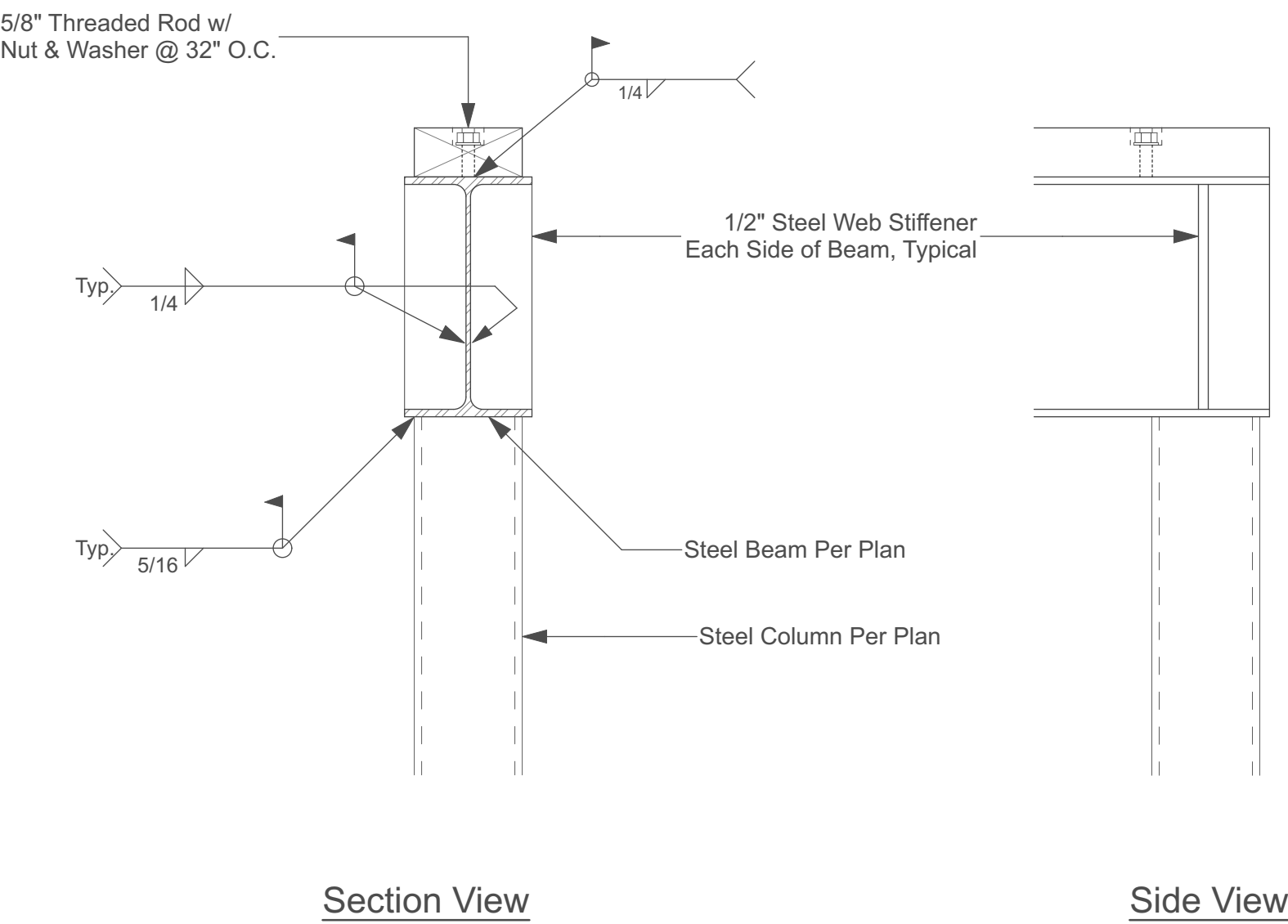
Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

S-4

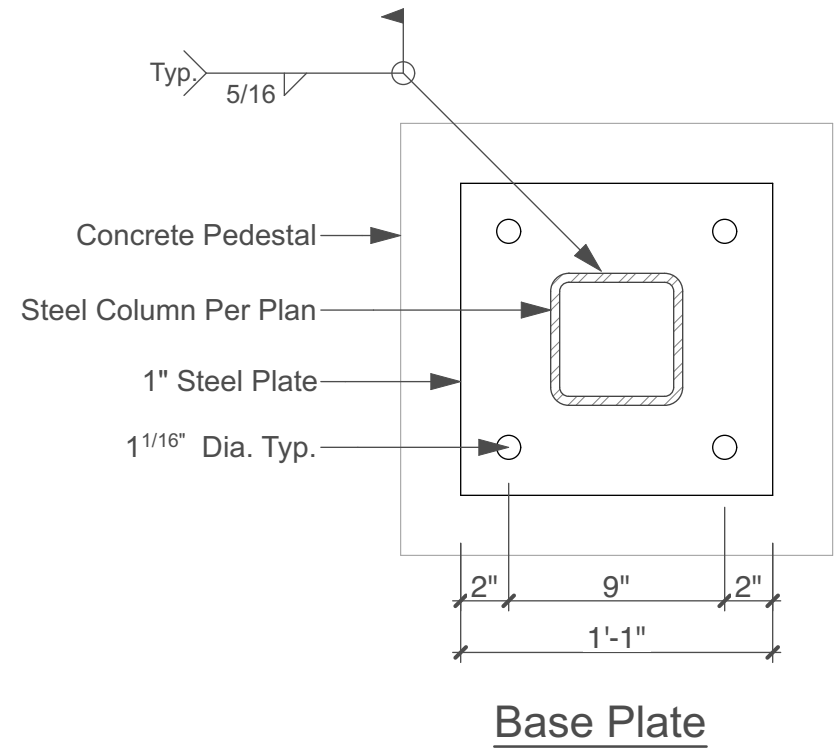
Total Sheet Count: 33



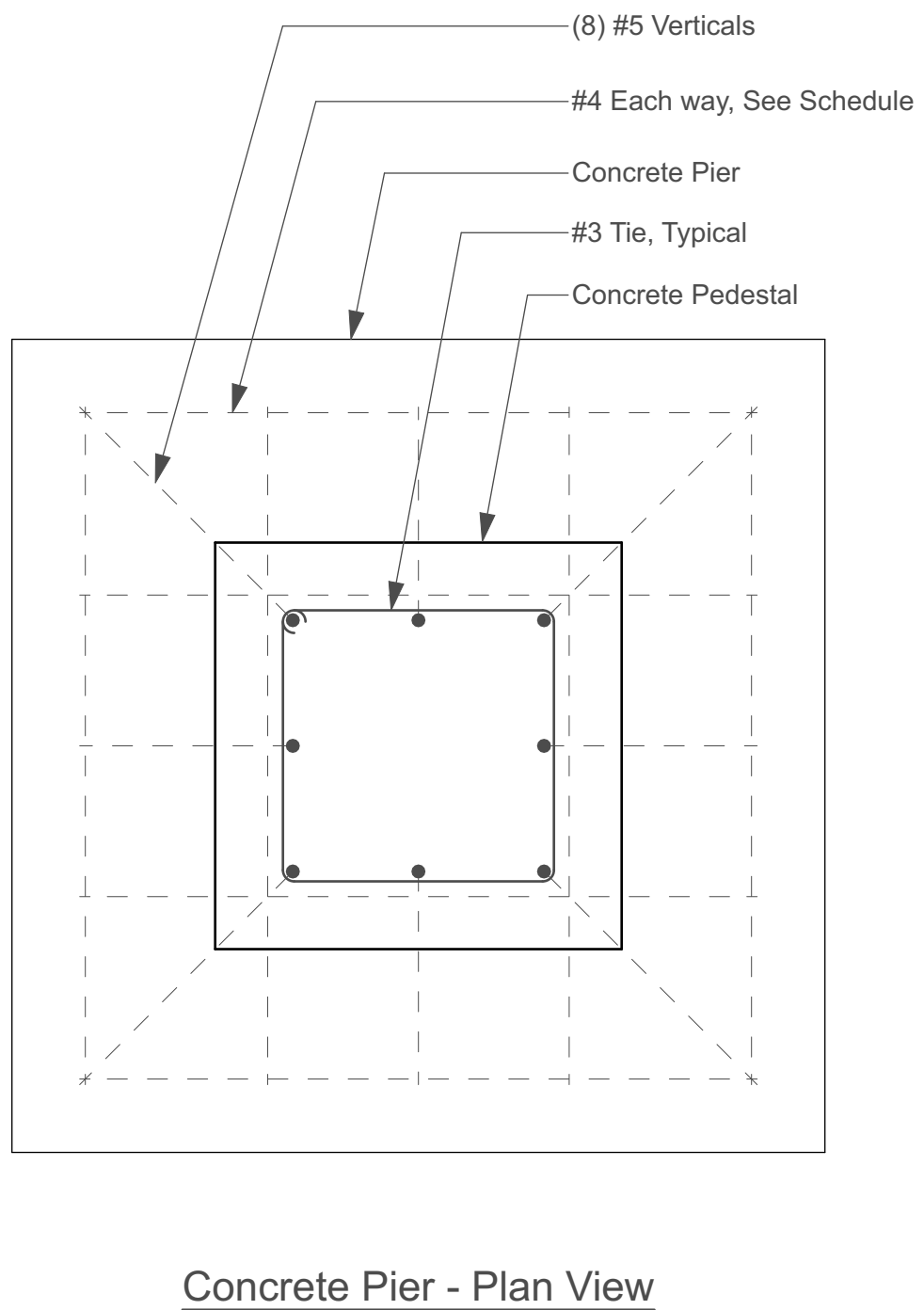
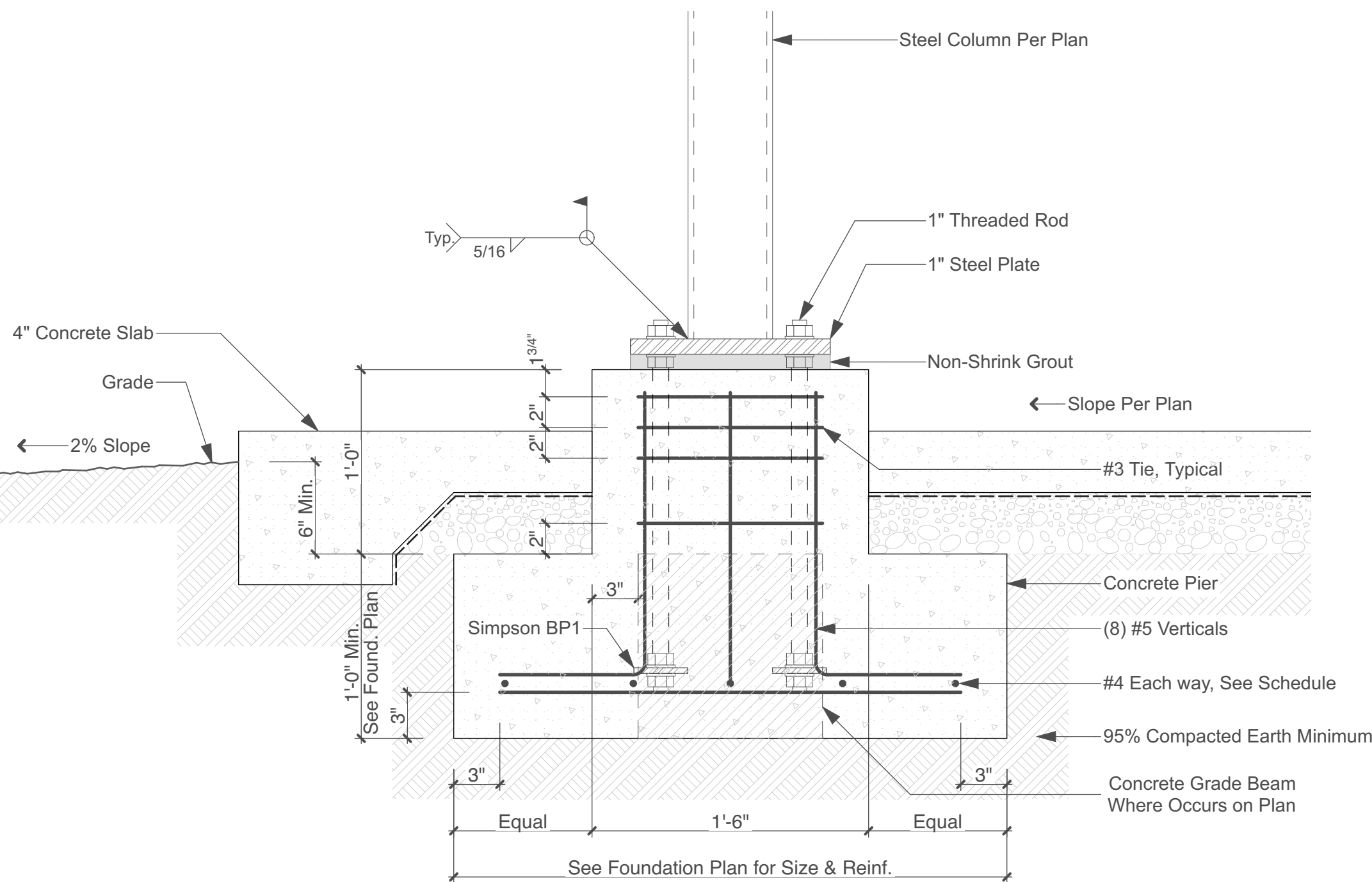
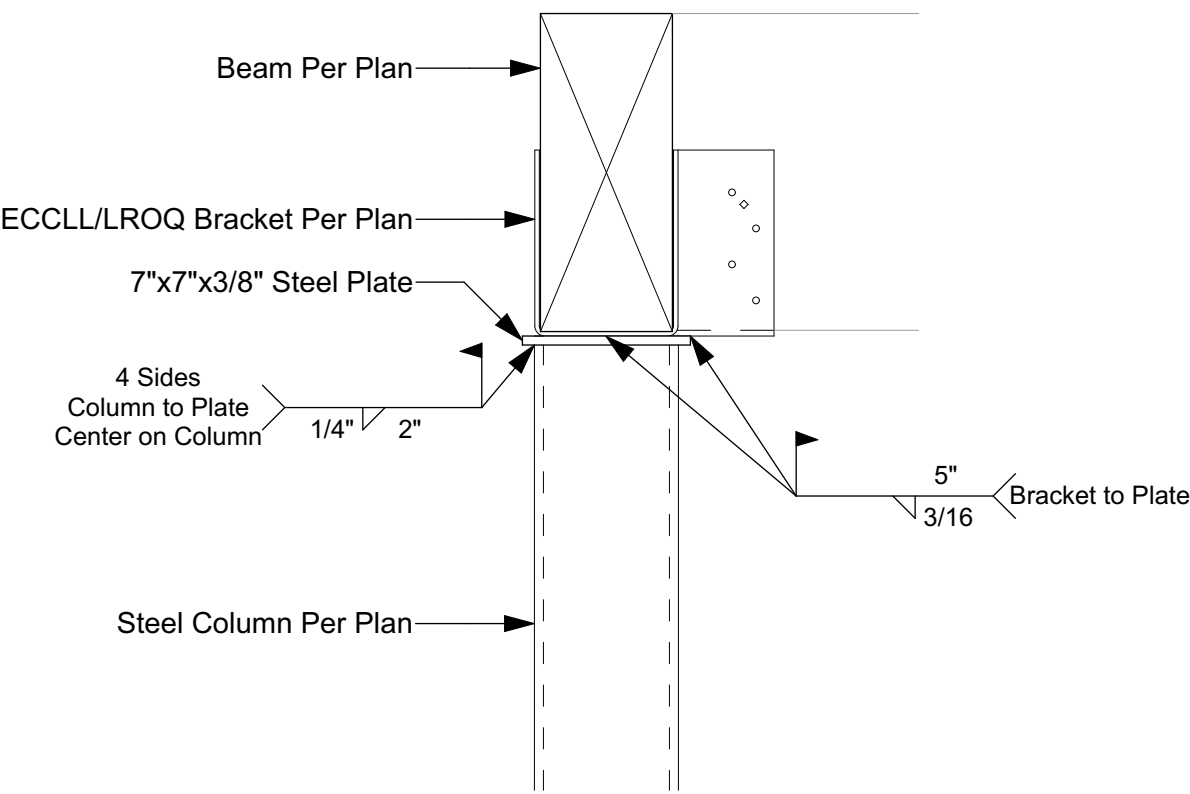
2 Grade Beam - 12" Deep - Pedestal Flush with Slab
SCALE: 1 1/2" = 1'-0"



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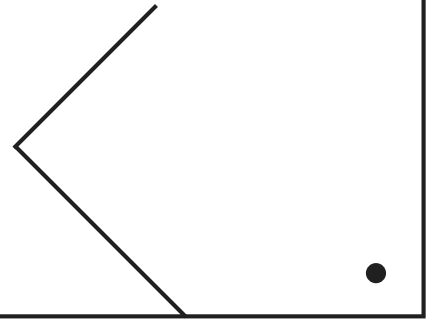


3 Steel Beam with Nailer
Scale: 1 1/2" = 1'-0"



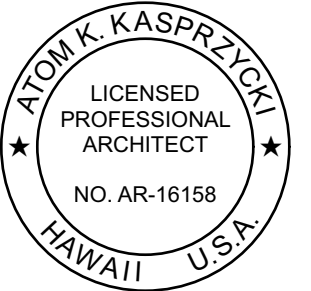
5 Steel Column - 6" HSS Wood Beam w/ ECCLL
SCALE: 1 1/2" = 1'-0"

1 Pier Detail - 5 1/2" HSS Column
SCALE: 1 1/2" = 1'-0"



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Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

Structural Details

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

S-5

Total Sheet Count: 33

COUNTY OF MAUI
MAUI COUNTY CODE, CHAPTER 16.16C ENERGY CODE
RESIDENTIAL PROVISIONS

COMPLIANCE METHOD
Check applicable method

☒

R401.2(1) R401.3 through R404 (Prescriptive)

☐

R401.2(2) R405, R401 through R404 labeled Mandatory (Simulated Performance Alternative)

☐

R401.2(3) R406 (Energy Rating Index Compliance Alternative)

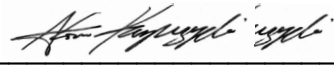
☐

R401.2(4) R401.2.1 (Tropical Zone)

☐

R102.1 (Alternative)

































To the best of my knowledge, this project's design substantially conforms to the Energy Code.

Signature:  Date: 10-21-2024

Name: Atom Kasprzycki

Title: Architect

License No.: AR-16158

Electrical Key	
Single Pole Switch	
Three-Way Switch	
Four-Way Switch	
Duplex AFCI Receptacle	
Quadplex AFCI Receptacle	
Duplex GFCI Receptacle	
Weatherproof Duplex GFCI Receptacle	
Duplex AFCI Floor Receptacle	
220V Receptacle	
Data Receptacle	
Television Receptacle	
Keypad Entry	
Garage Door Opener, UL 325 Compliant	
Junction Box	
Wall Mount LED Light Fixture	
Ceiling Mount LED Light Fixture	
LED Pendant Light	
4" LED MR16 Recessed Can Light	
Under Cabinet LED Light	
Ducted Exhaust Fan with In-line Motor	
Ducted IAQ Fresh Air Ventilator	
Ceiling Fan/LED Light Combination	
LED Flat Panel	
LED Strip Lights	
Pool LED Light	
LED Uplighting	
Motion Detector LED Spot Light	
Security Camera	
Switch with Dimmer	
Weatherproof	
Smoke & Carbon Monoxide Detector (Hardwired & Interconnected)	
Speaker	

1

Electrical Plan

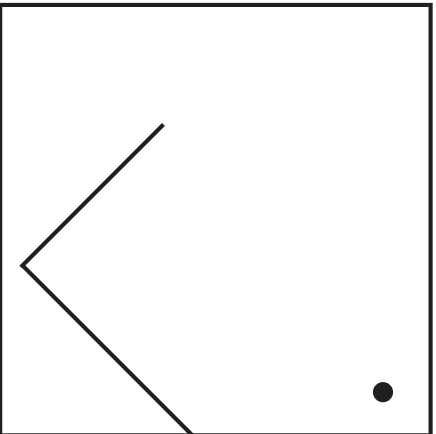
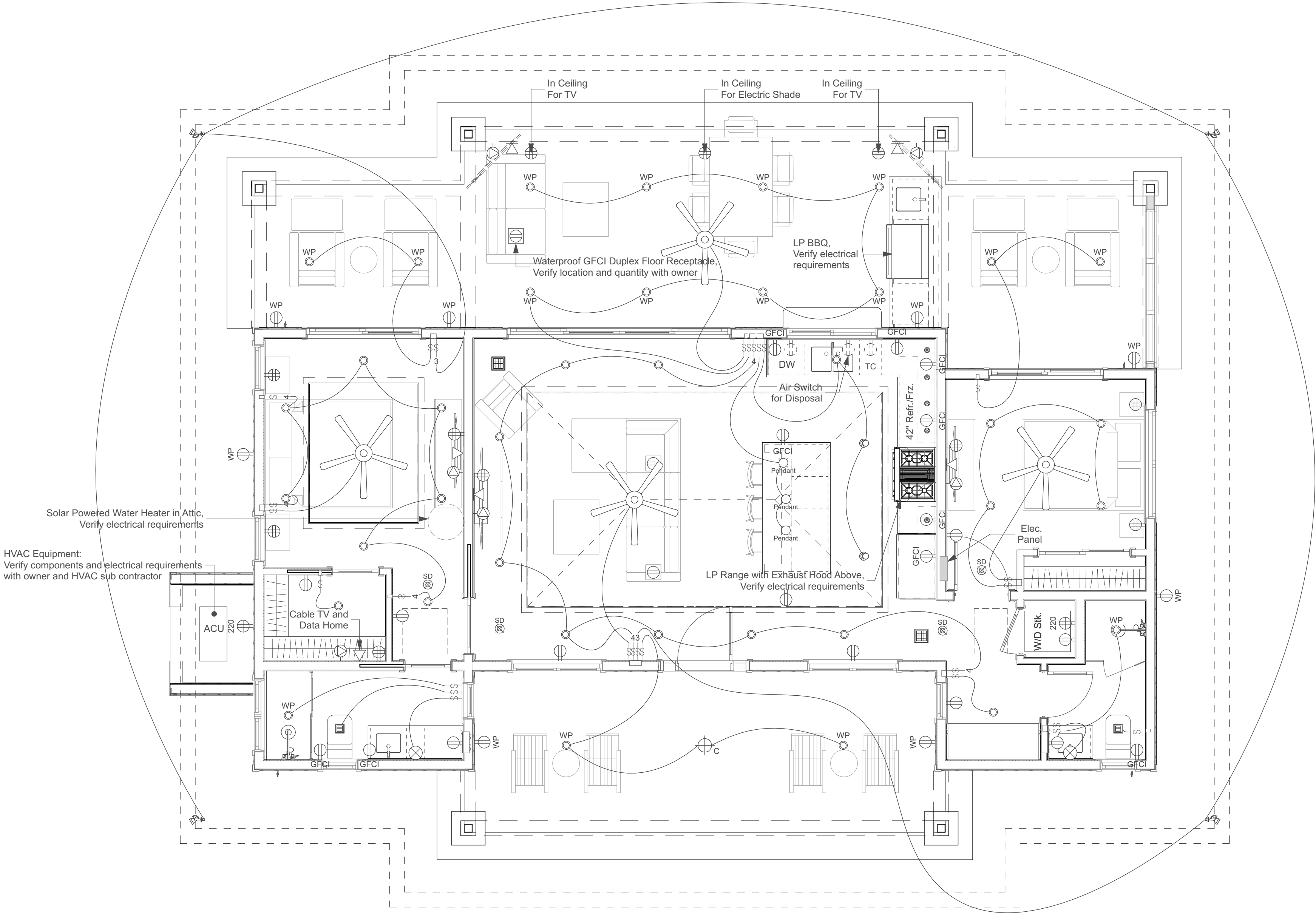
SCALE: 1/4" = 1'-0"

0

2'

4'

8'



KASPRZYCKI
DESIGNS

40 Kupuohi Street, Suite 203
Lahaina, Hawaii 96761
Office 808-667-6116
www.kasprzyckidesigns.com



This work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License: 4/30/2026


Signature

Proposed Second Farm Dwelling

Calhoun Residence
Kaanapali Coffee Farms Lot #32 Lahaina HI 96761
TMK: (2) 4-4-020:032

Revisions:

Electrical Plan

Date: 10-21-2024
Phase: Permit Set
Drawn: MB, AK
Job: 24-20
Sheet Number:

E-1

Total Sheet Count: 33