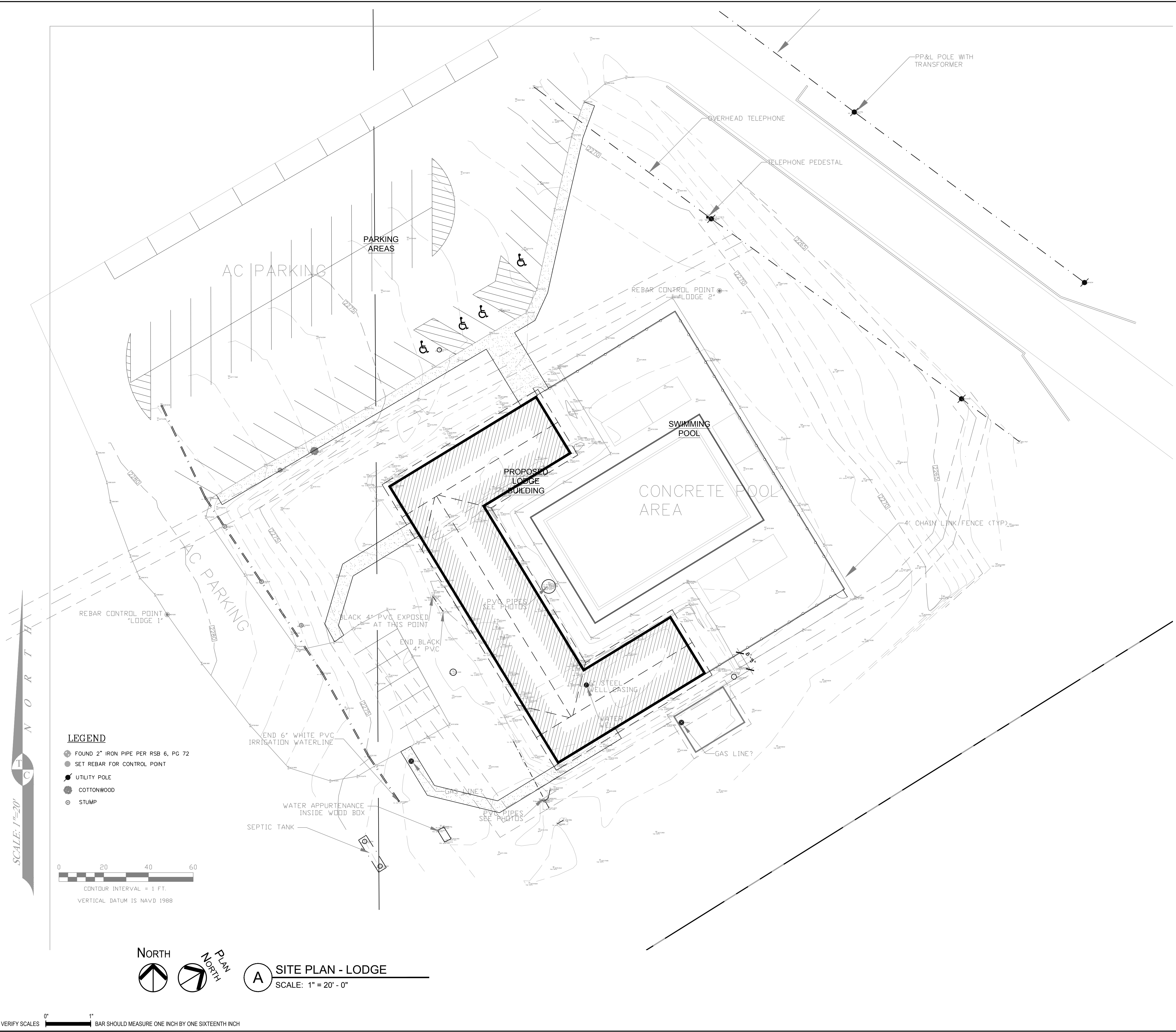


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LEGEND

- FOUND 2" IRON PIPE PER RSB 6, PG 72
- SET REBAR FOR CONTROL POINT
- UTILITY POLE
- COTTONWOOD
- STUMP


SCALE: 1" = 20'

0 20 40 60
CONTOUR INTERVAL = 1 FT.
VERTICAL DATUM IS NAVD 1988

NORTH
PLAN NORTH

A SITE PLAN - LODGE
SCALE: 1" = 20' - 0"

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R-RANCH

PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 90044
PARCEL:

REVISIONS	
NO.	DESCRIPTION

Approved for the Owner By: _____ Date: _____

PLOT DATE: 1/3/20
ISSUE DATE: 12/12/19
DRAWN BY: BDK
JOB NO.:
SHEET

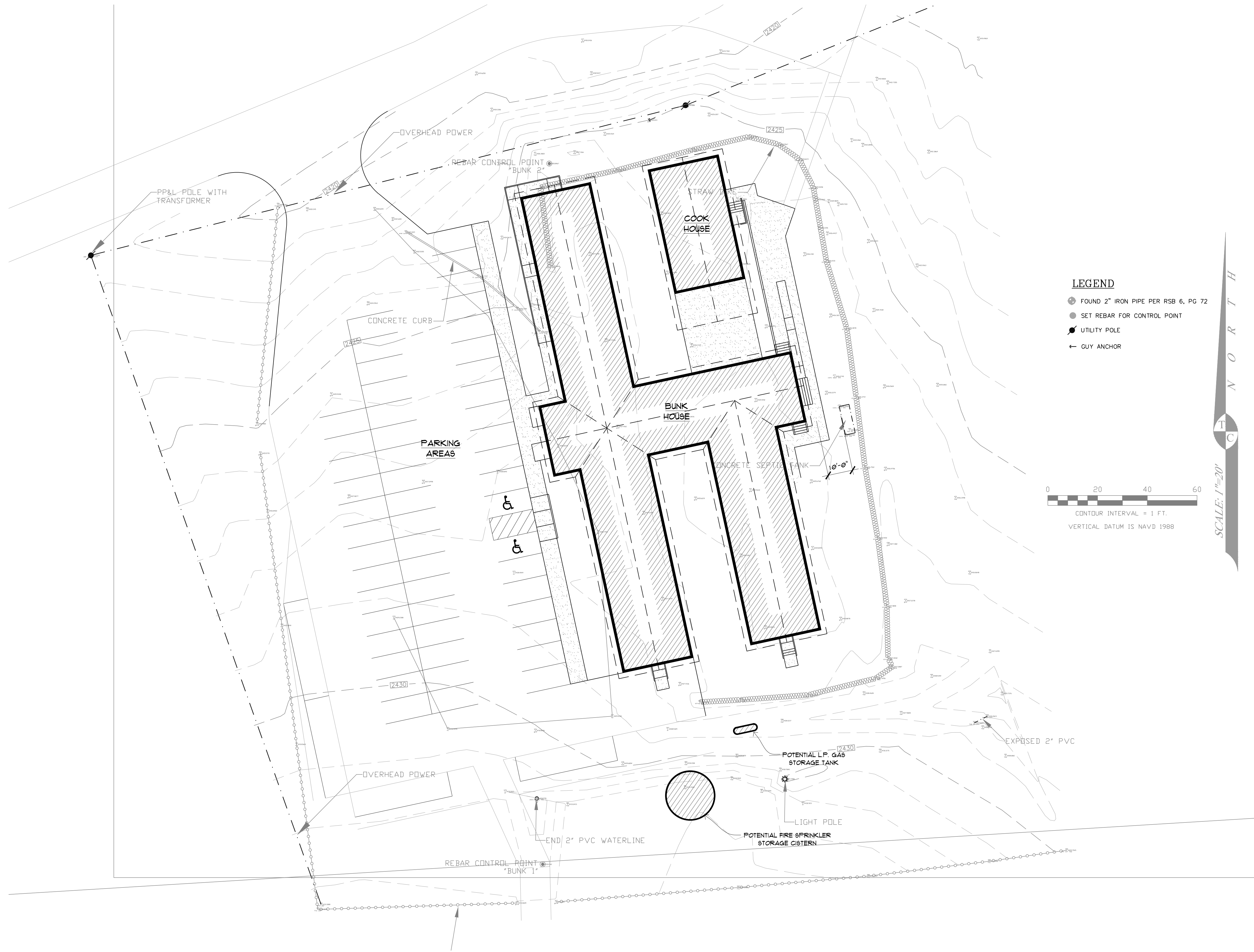
SITE PLAN - LODGE

A-101a

PERMIT REVIEW
KLAMATHON FIRE RE-BUILD

DO NOT VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

S:\PROJECTS\R-Ranch\19-5202\Drawing\Construction\Drawings\R-RANCH PROJECT\Sheets\A-101b BUNK-COOK SITE PLAN.dwg, A-101b BUNK-COOK SITE PLAN, 1/3/2020 11:28:45 AM, DWG To PDF.pc3



B SITE PLAN
SCALE: 1" = 20'-0"

0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

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R-RANCH
PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

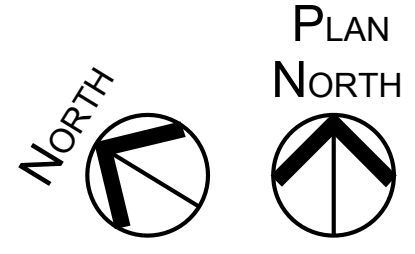
Approved for the Owner By: _____ Date: _____	
REVISIONS	BY
PLOT DATE:	1/3/20
ISSUE DATE:	12/12/19
DRAWN BY:	BDK
JOB NO.:	

SHEET
SITE PLAN - BUNK HOUSE / COOK HOUSE

A-101b

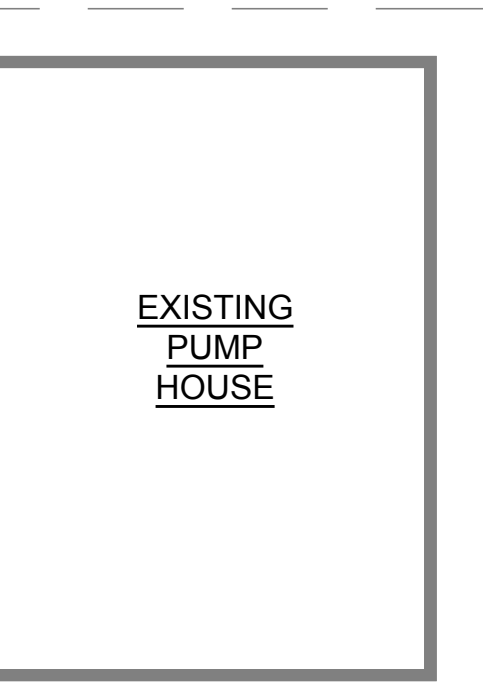
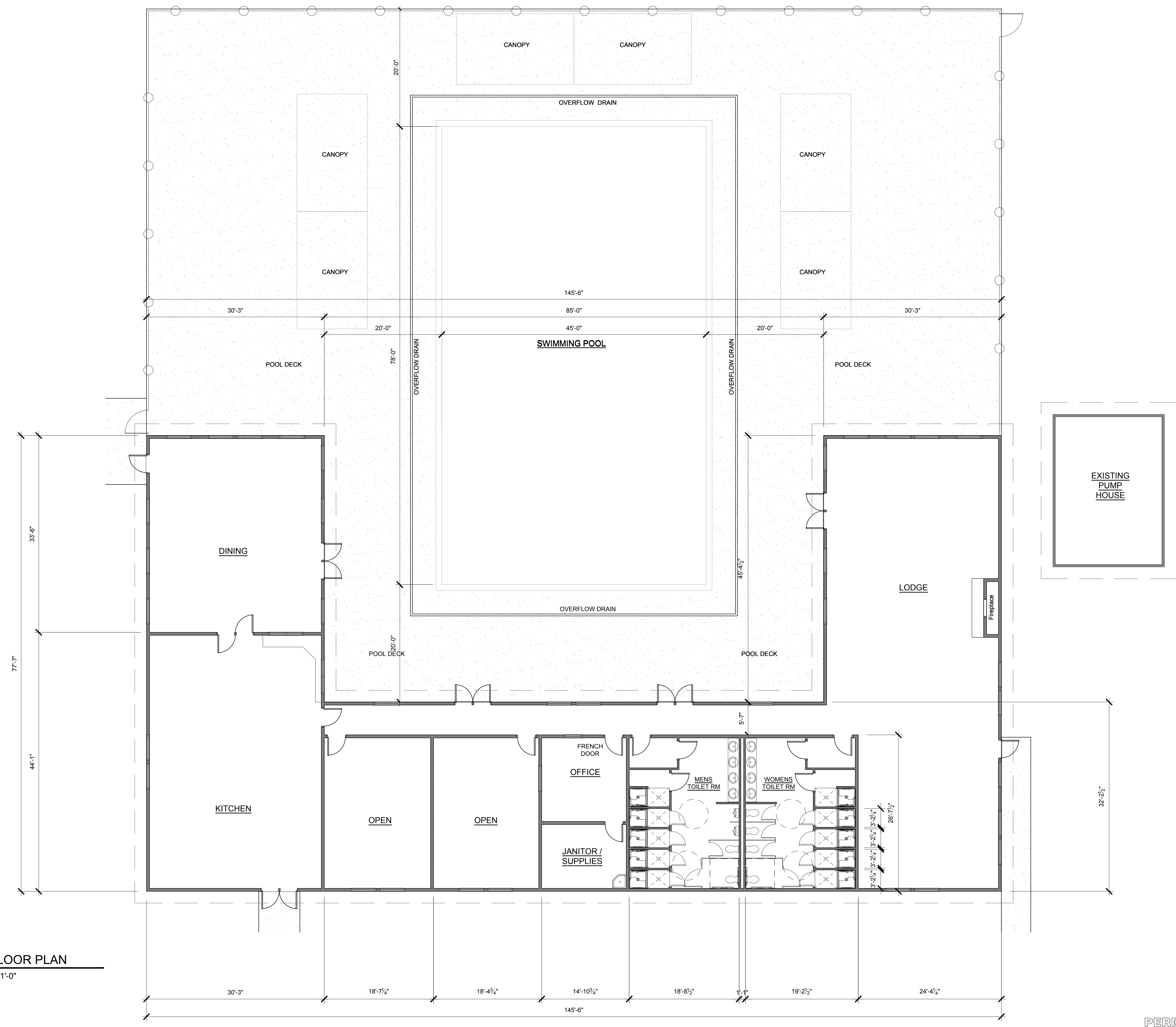
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A3 LODGE FLOOR PLAN
SCALE: 1/8" = 1'-0"

0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH



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R-RANCH
PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

REVISIONS		DATE
NO.	BY	

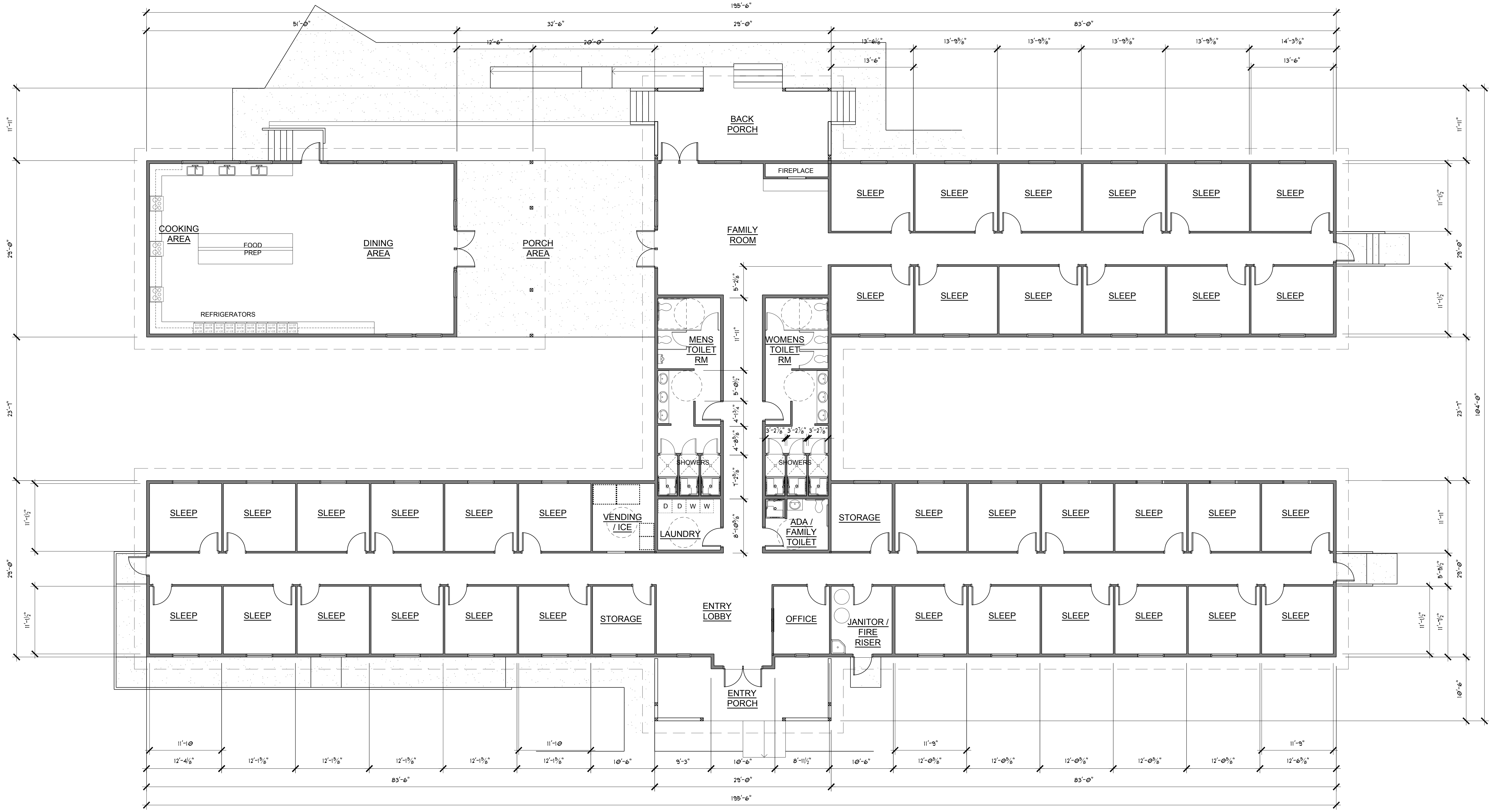
APPROVED FOR THE OWNER BY: _____ DATE: _____

PLOT DATE: 1/3/20
ISSUE DATE: 12/12/19
DRAWN BY: BDK
JOB NO.:

A - LODGE FLOOR PLAN
A-103a

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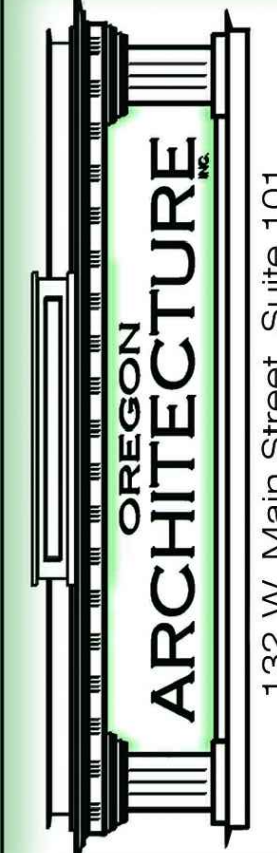
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B3 BUNK & COOK HOUSE FLOOR PLANS
SCALE: 1/8" = 1'-0"



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PROJECT LOCATION:
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PARCEL:

Approved for the Owner By: _____ Date: _____

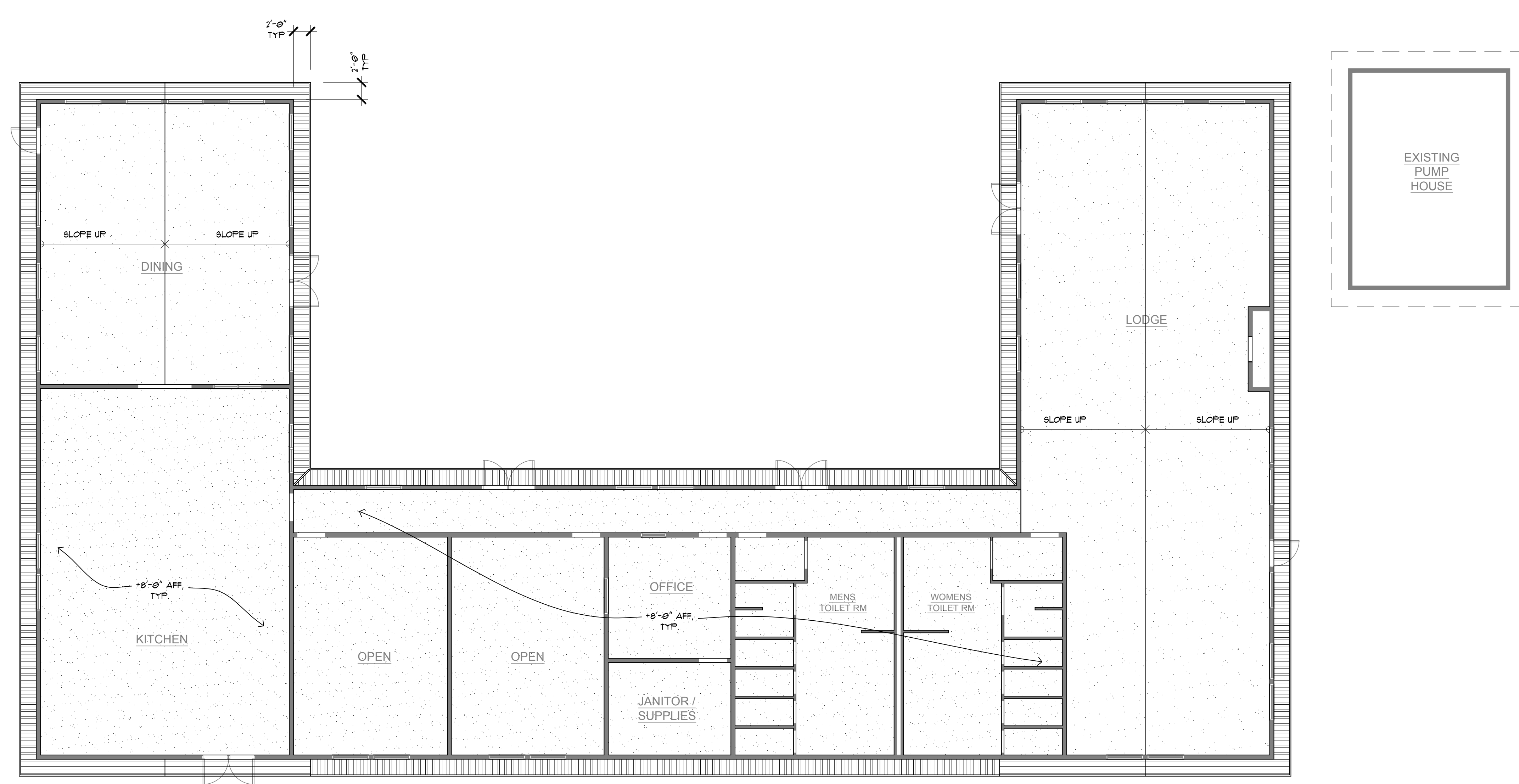
REVISIONS	BY

PLOT DATE: 1/3/20
ISSUE DATE: 00 / 00 / 19
DRAWN BY: BDK
JOB NO.:
SHEET

B - BUNK & COOK HOUSE FLOORS
A-103b

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 DWG To PDF.pc3



PLAN NORTH

A4 LODGE REFLECTED CEILING PLAN

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

0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

PERMIT REVIEW
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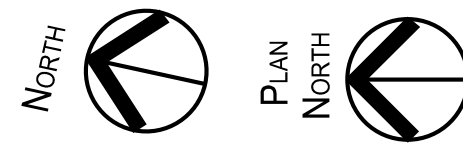
Approved for the Owner By: _____ Date: _____

REVISIONS	BY

PLOT DATE: 1/3/20
 ISSUE DATE: 12/12/19
 DRAWN BY: BDK
 JOB NO.: _____

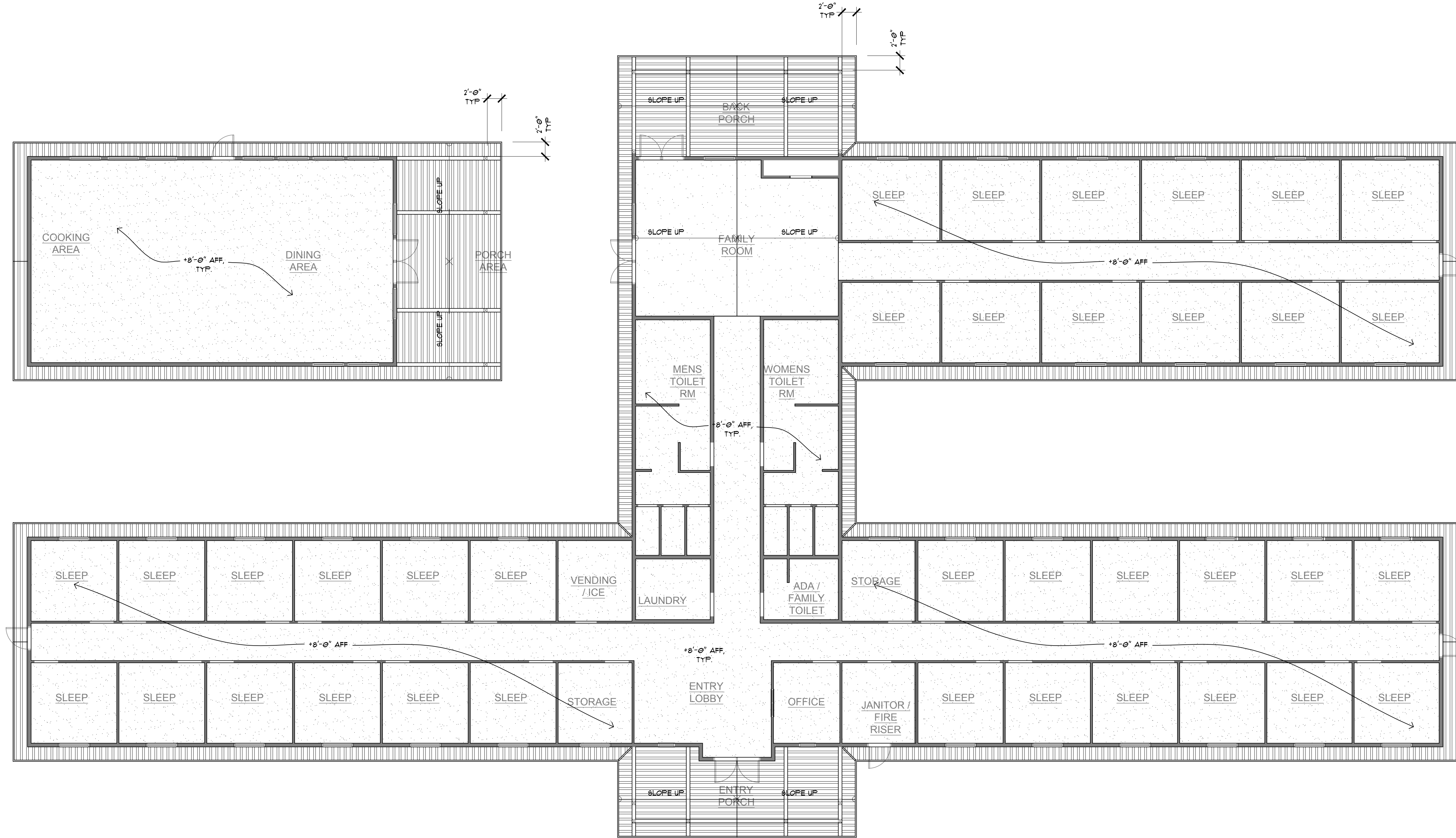
SHEET
A - LODGE REFLECTED CEILING PLAN
A-104a

S:\PROJECTS\R-Ranch\19-5202\Drawing\Construction Drawings\R-RANCH PROJECT\Sheets\A-104b BUNK&COOK RC PLANS, 1/3/2020 11:33:52 AM.dwg To PDF.pc3



B4 BUNK & COOK HOUSE REFLECTED CEILING PLANS
SCALE: 1/8" = 1'-0"

0" 1"
DO NOT VERIFY SCALES BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH



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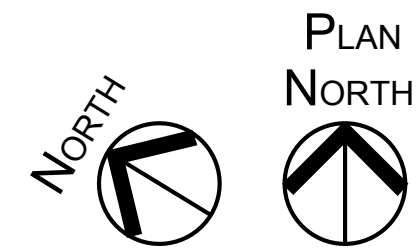
R-RANCH
PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
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Approved for the Owner By: _____ Date: _____	
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PLOT DATE:	1/3/20
ISSUE DATE:	12/12/19
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JOB NO.:	

SHEET
**B - BUNK & COOK
HOUSE REFLECTED
CEILING PLANS
A-104b**

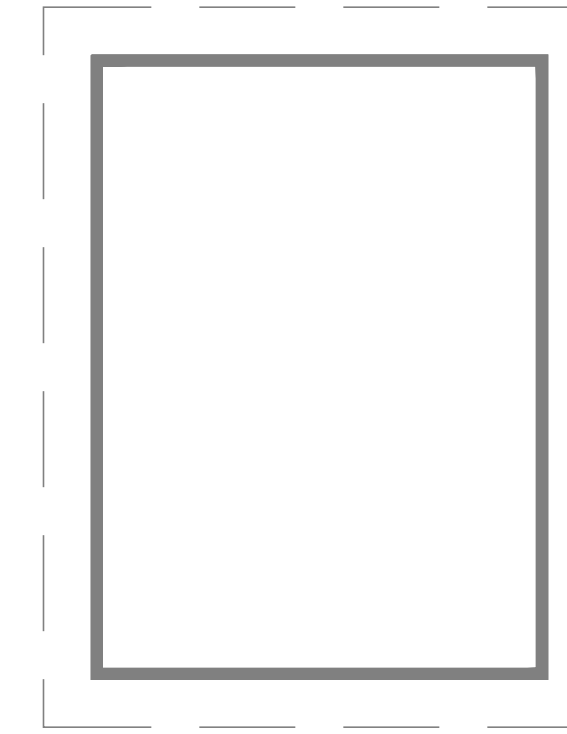
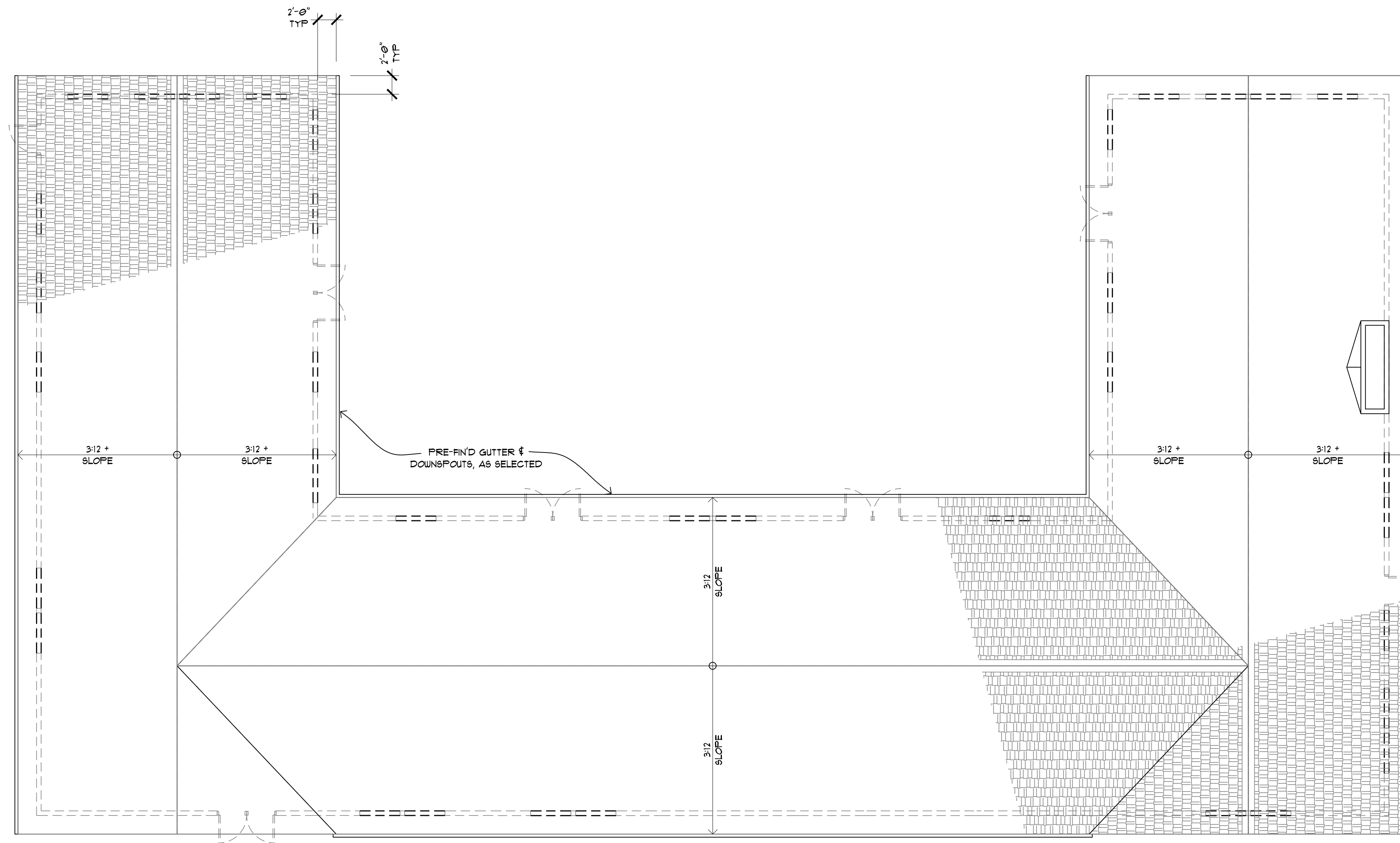
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 DWG To PDF.pc3



A5 LODGE ROOF PLAN
 SCALE: 1/8" = 1'-0"

0" 1"
 VERIFY SCALES BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH



PERMIT REVIEW
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 PROJECT LOCATION:
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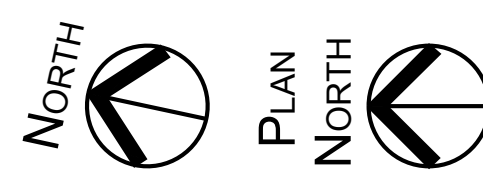
REVISIONS	
BY	DATE

Approved for the Owner By: _____ Date: _____

PLOT DATE: 1/3/20
 ISSUE DATE: 12/12/19
 DRAWN BY: BDK
 JOB NO.:
 SHEET

A - LODGE ROOF PLAN
A-105a

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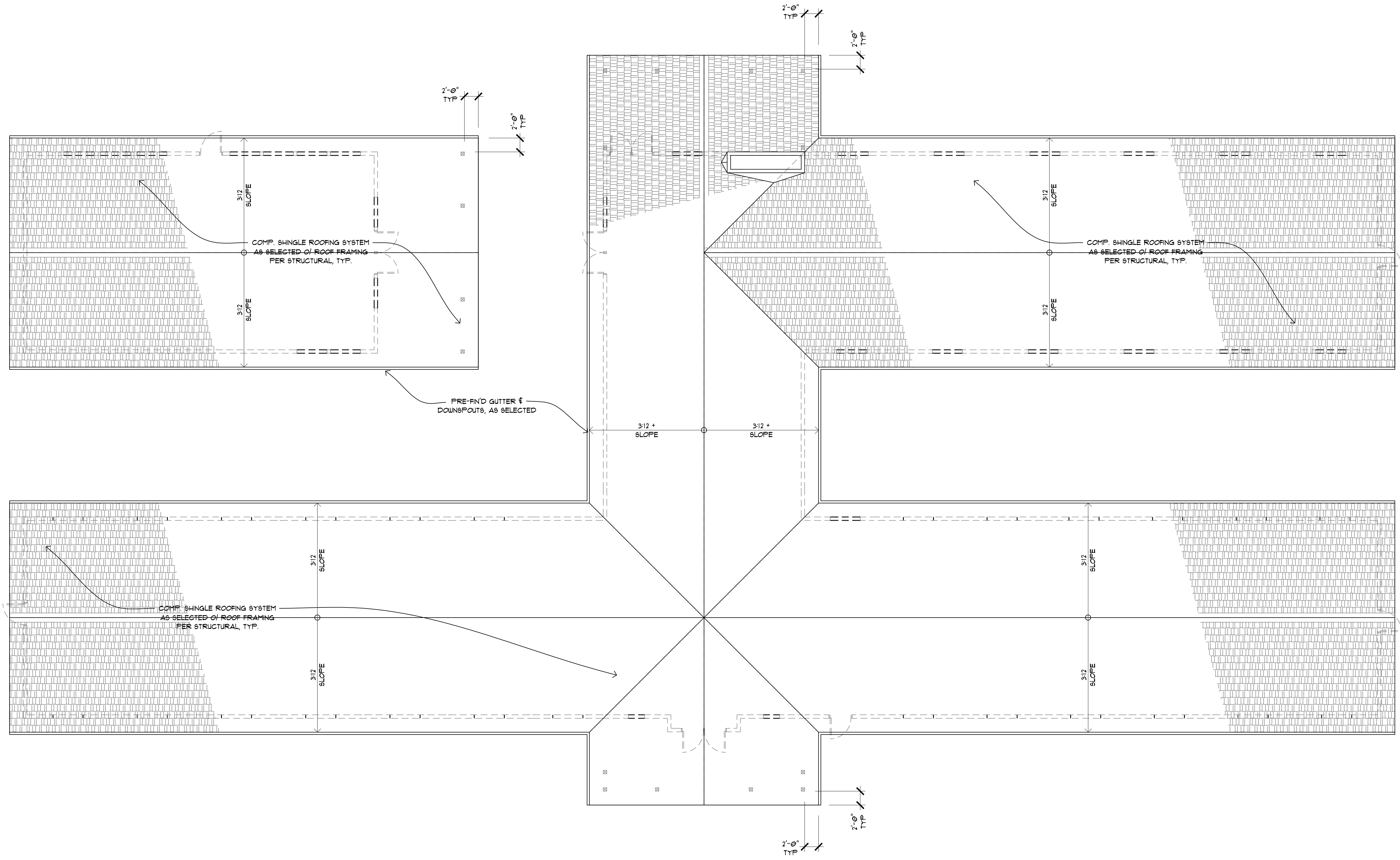


B5

BUNK & COOK HOUSE ROOF PLANS

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

0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH



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PROJECT DESCRIPTION:

R-RANCH

PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 90044
PARCEL:

Approved for the Owner By:	Date:
REVISIONS	BY

PLOT DATE: 1/3/20
ISSUE DATE: 12/12/19
DRAWN BY: BDK
JOB NO.:

SHEET
**B - BUNK & COOK
HOUSE ROOF PLANS**

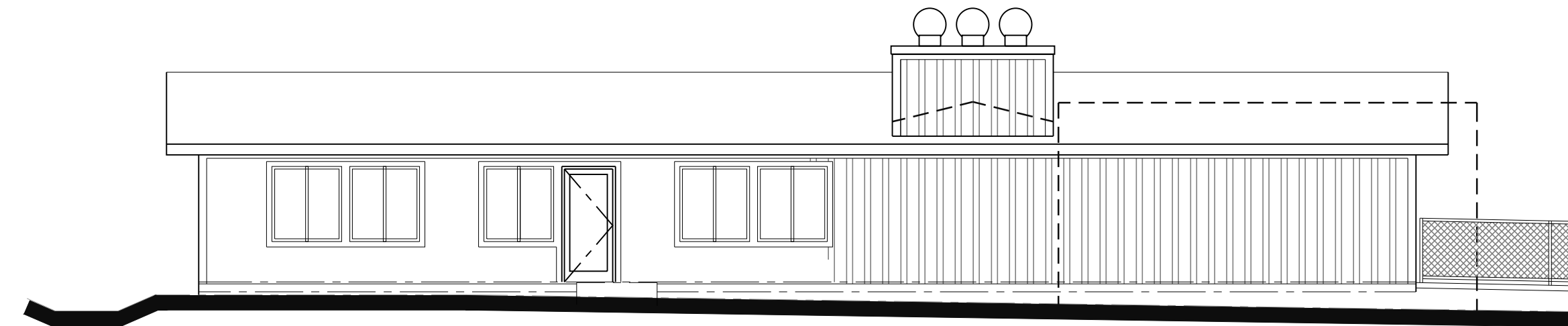
A-105b



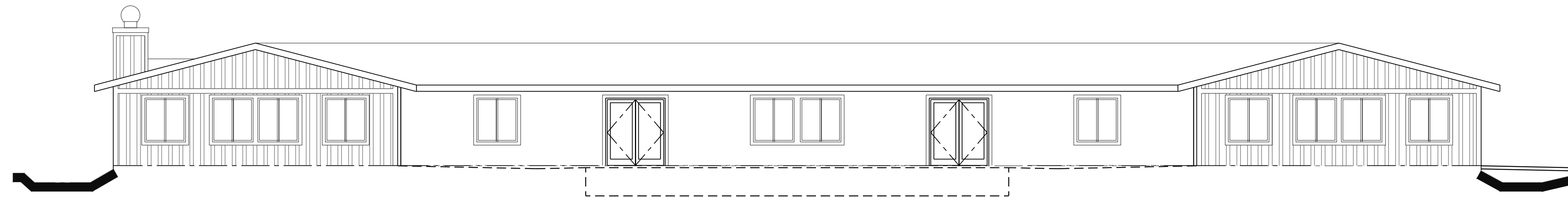
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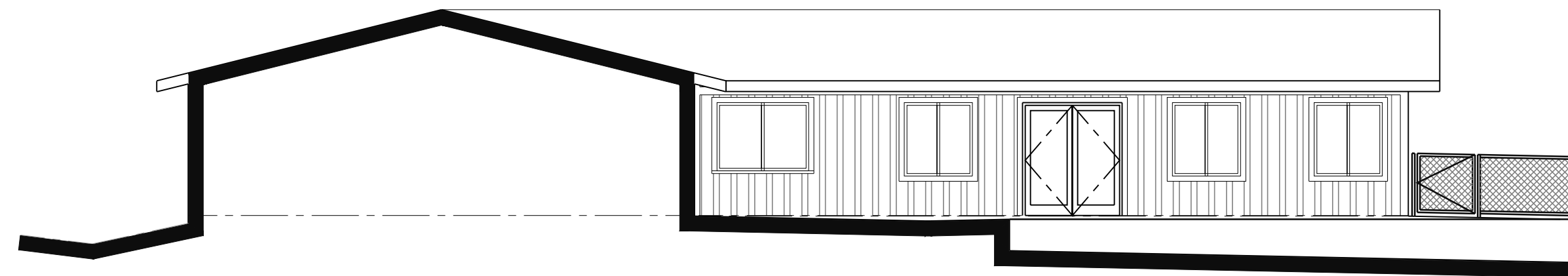
A1 LODGE - WEST ELEVATION
SCALE: 1/8" = 1'-0"



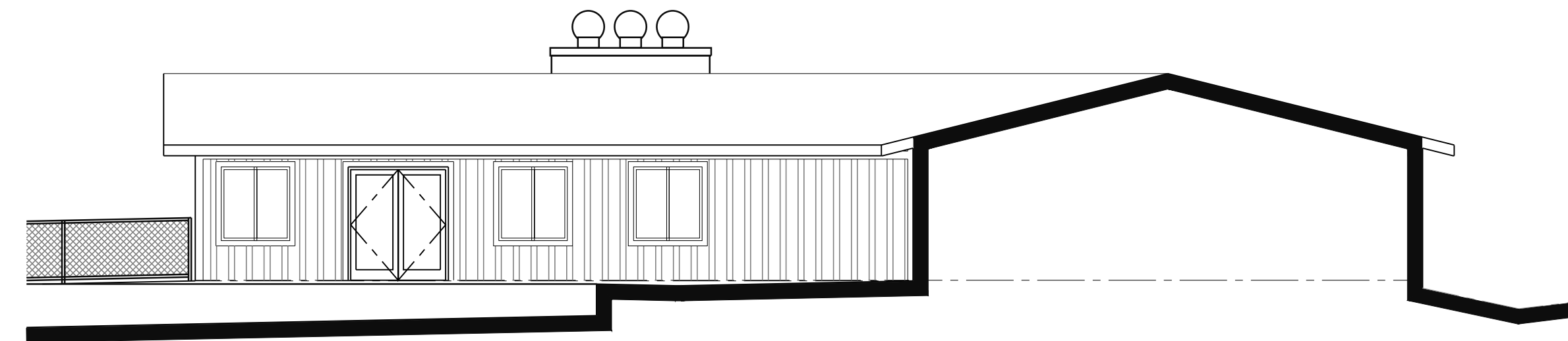
A2 LODGE - EAST ELEVATION
SCALE: 1/8" = 1'-0"



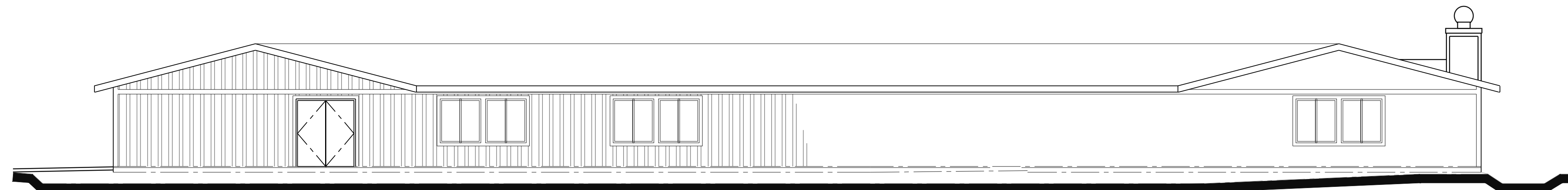
A3 LODGE - NORTH ELEVATION
SCALE: 1/8" = 1'-0"



A4 LODGE - EAST ELEVATION (POOL SIDE)
SCALE: 1/8" = 1'-0"



A5 LODGE - SOUTH ELEVATION (POOL SIDE)
SCALE: 1/8" = 1'-0"



A6 LODGE - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

S:\PROJECTS\R-Ranch\19-5202\Drawing\Construction Drawings\R-RANCH PROJECT\Sheets\A-201a LODGE EXTERIOR ELEVATIONS.dwg, A-201a LODGE EXTERIOR ELEVATIONS.dwg, 1/3/2020 11:38:20 AM, DWG To PDF.pc3

DO NOT VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

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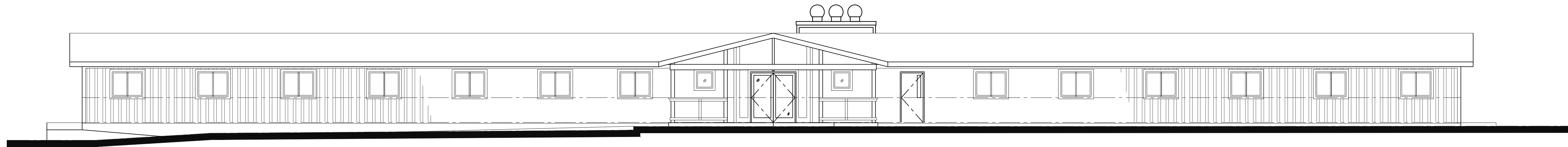
REVISIONS	BY

PLOT DATE: 1/3/20
ISSUE DATE: 12/12/19
DRAWN BY: BDK
JOB NO.:

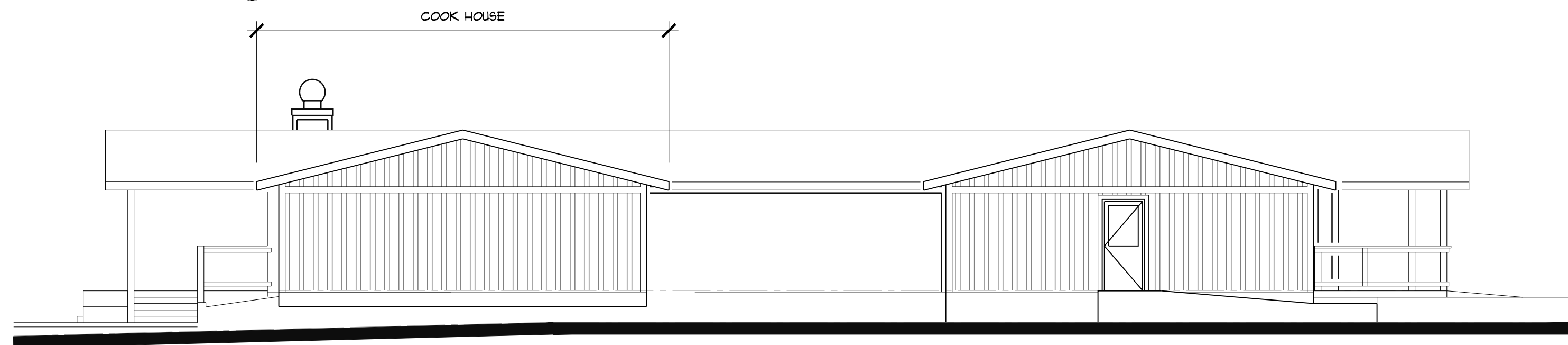
SHEET
A - LODGE EXTERIOR ELEVATIONS

A-201a

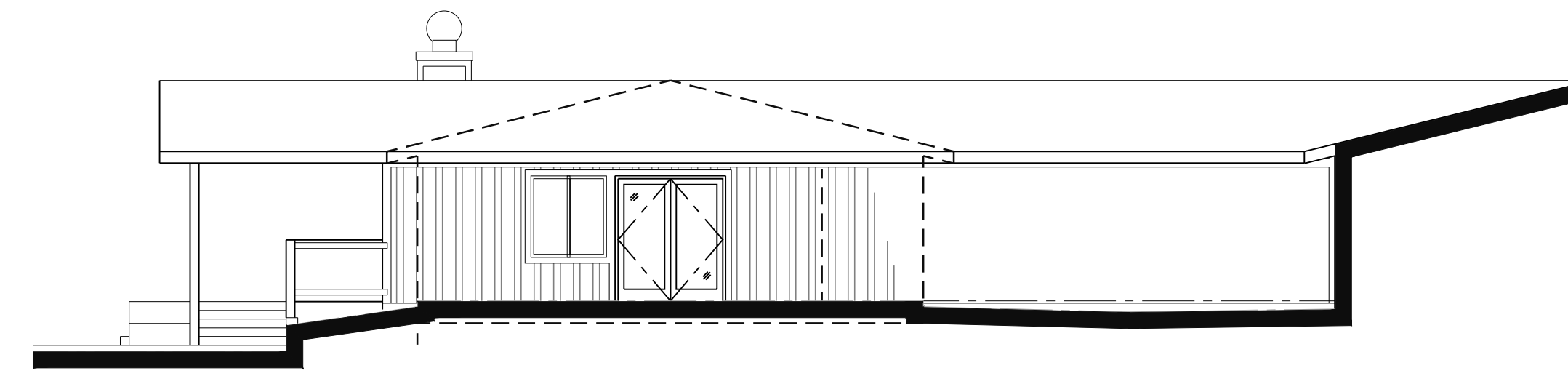
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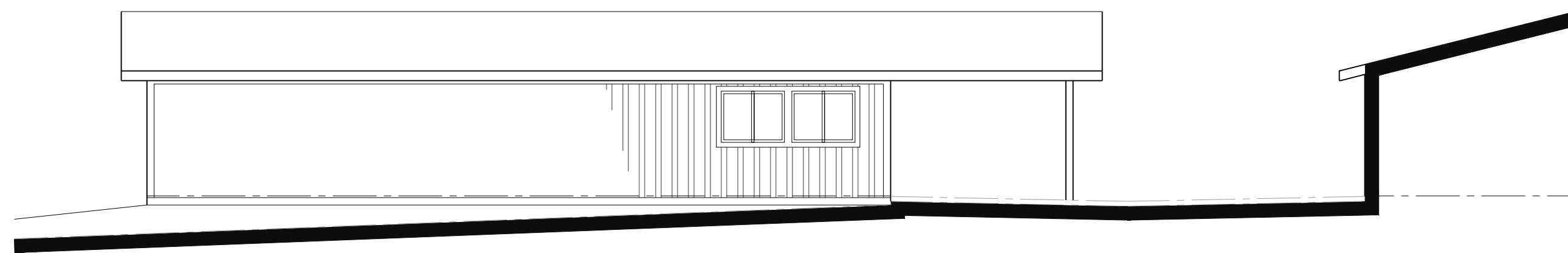
B1 BUNK HOUSE - WEST ELEVATION
1/8" = 1' - 0"



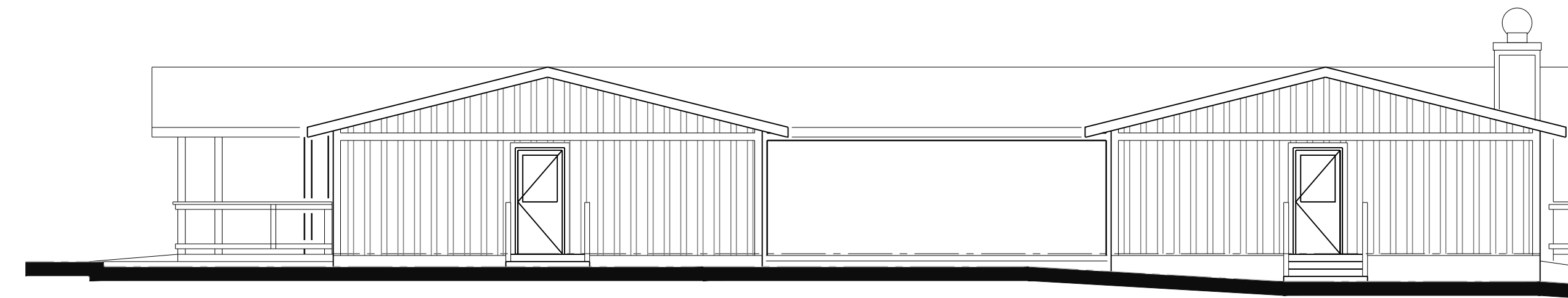
B2 BUNK & COOK HOUSE - NORTH ELEVATION
1/8" = 1' - 0"



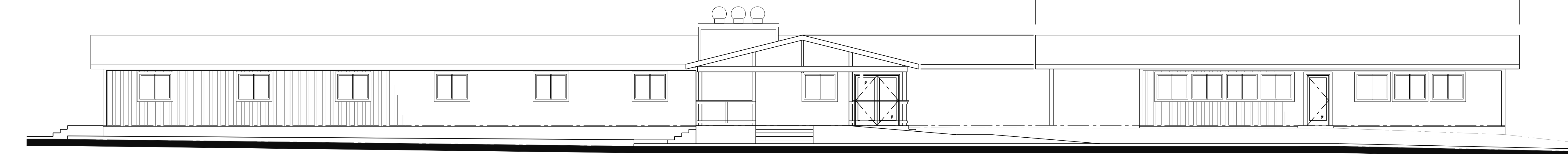
B3 BUNK HOUSE - PARTIAL NORTH ELEVATION
1/8" = 1' - 0"



B4 COOK HOUSE - WEST ELEVATION
1/8" = 1' - 0"



B5 BUNK HOUSE - SOUTH ELEVATION
1/8" = 1' - 0"



B6 BUNK & COOK HOUSE - EAST ELEVATION
1/8" = 1' - 0"

S:\PROJECTS\R-Ranch\19-5202\Drawing\Construction Drawings\R-RANCH PROJECT\Sheets\A-201b BUNK-COOK EXTERIOR ELEVATIONS.dwg, A-201b BUNK-COOK EXTERIOR ELEVATIONS, 1/3/2020 11:39:28 AM, DWG To PDF.pc3

0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

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PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
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Approved for the Owner By: _____ Date: _____

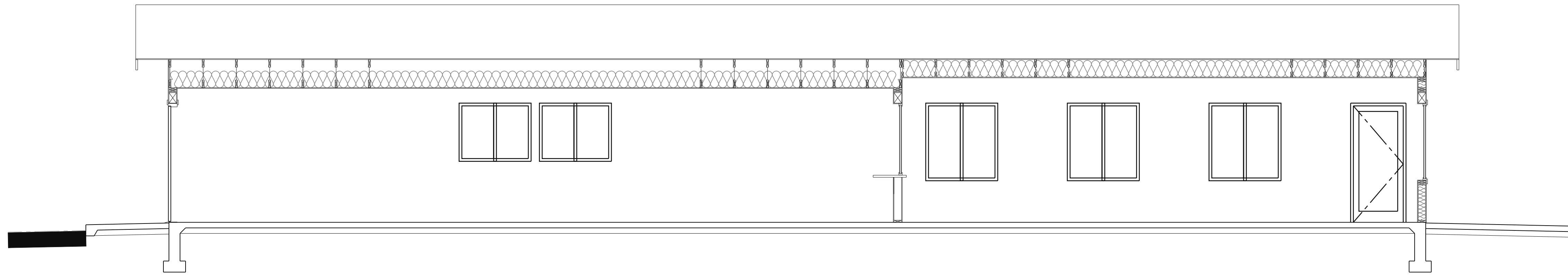
REVISIONS	BY

PLOT DATE: 1/3/20
ISSUE DATE: 12/12/19
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JOB NO.:

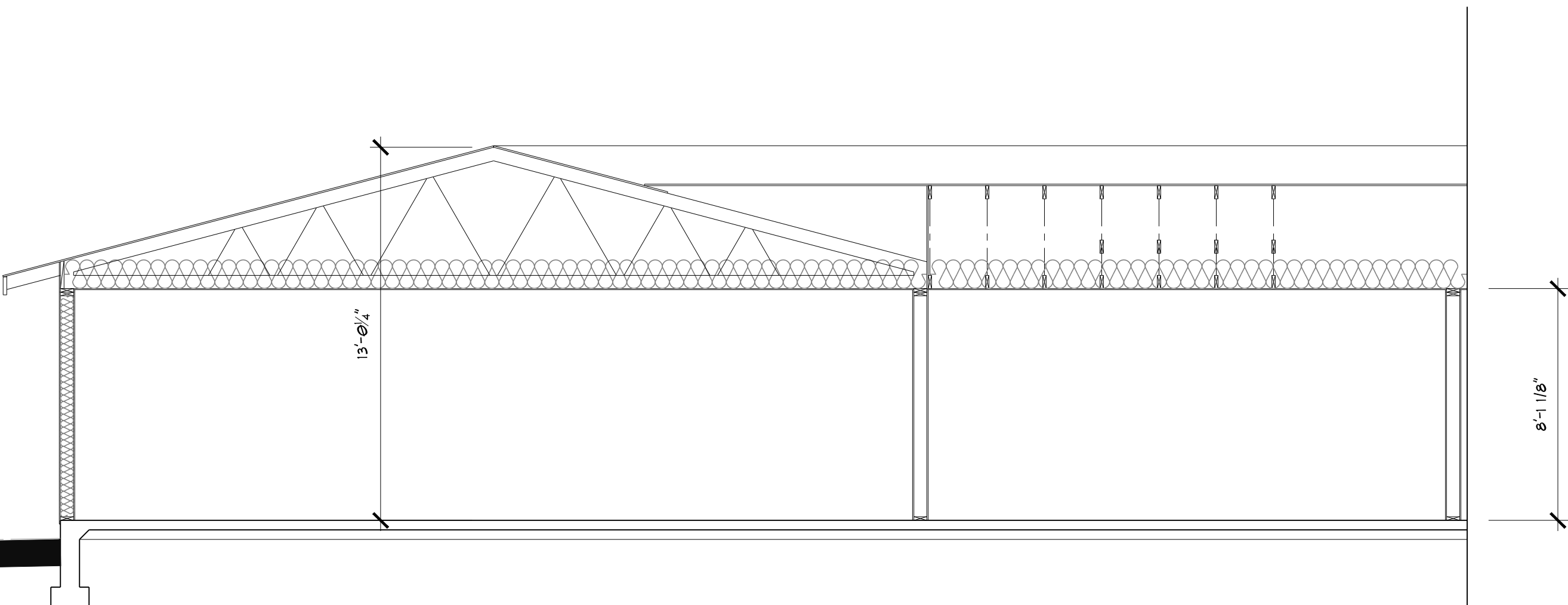
SHEET
**B - BUNK & COOK
HOUSE EXTERIOR
ELEVATIONS
A-201b**

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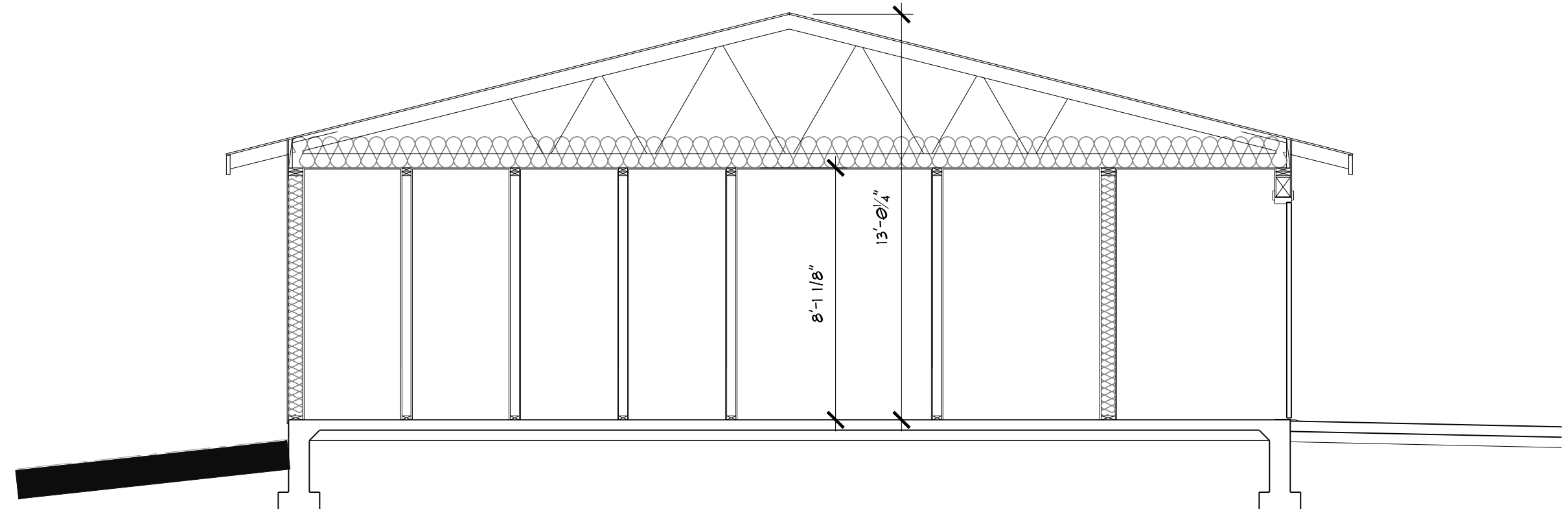
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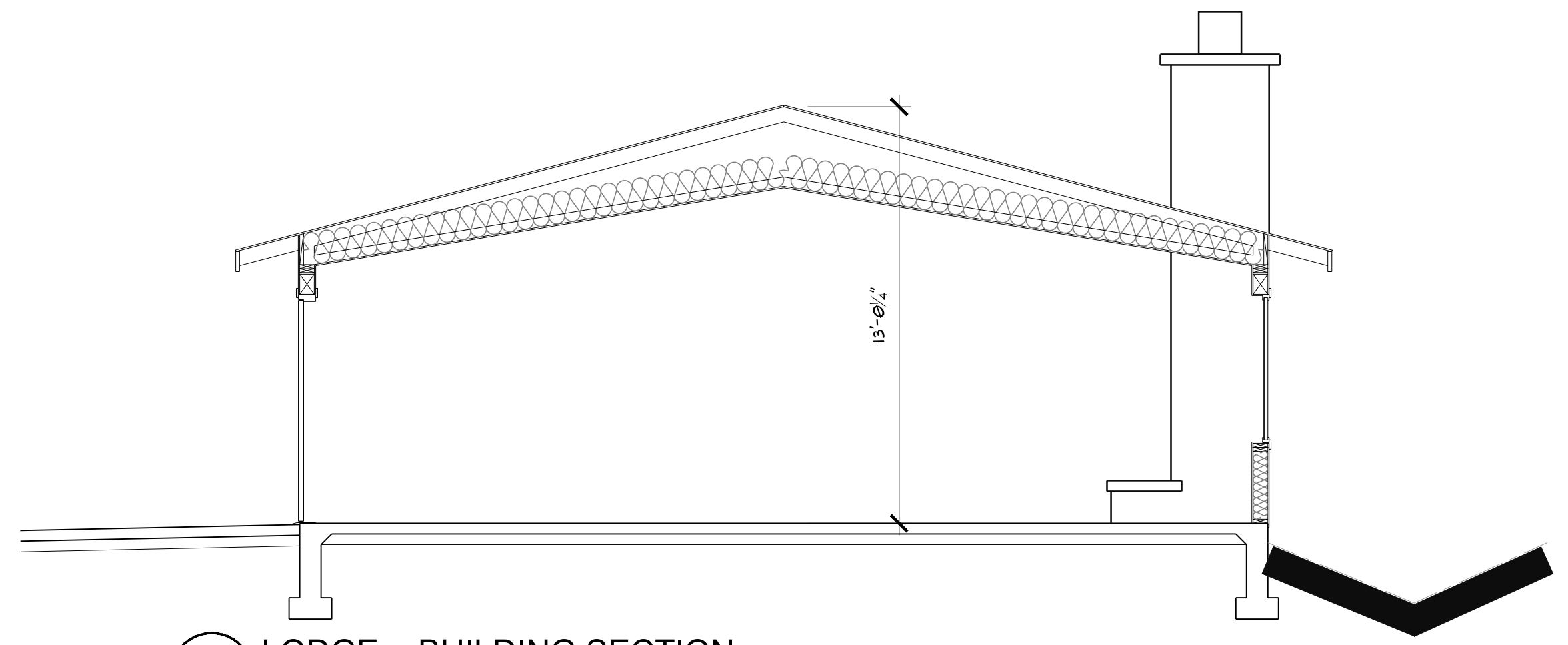
A1 LODGE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



A2 LODGE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



A3 LODGE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



A4 LODGE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



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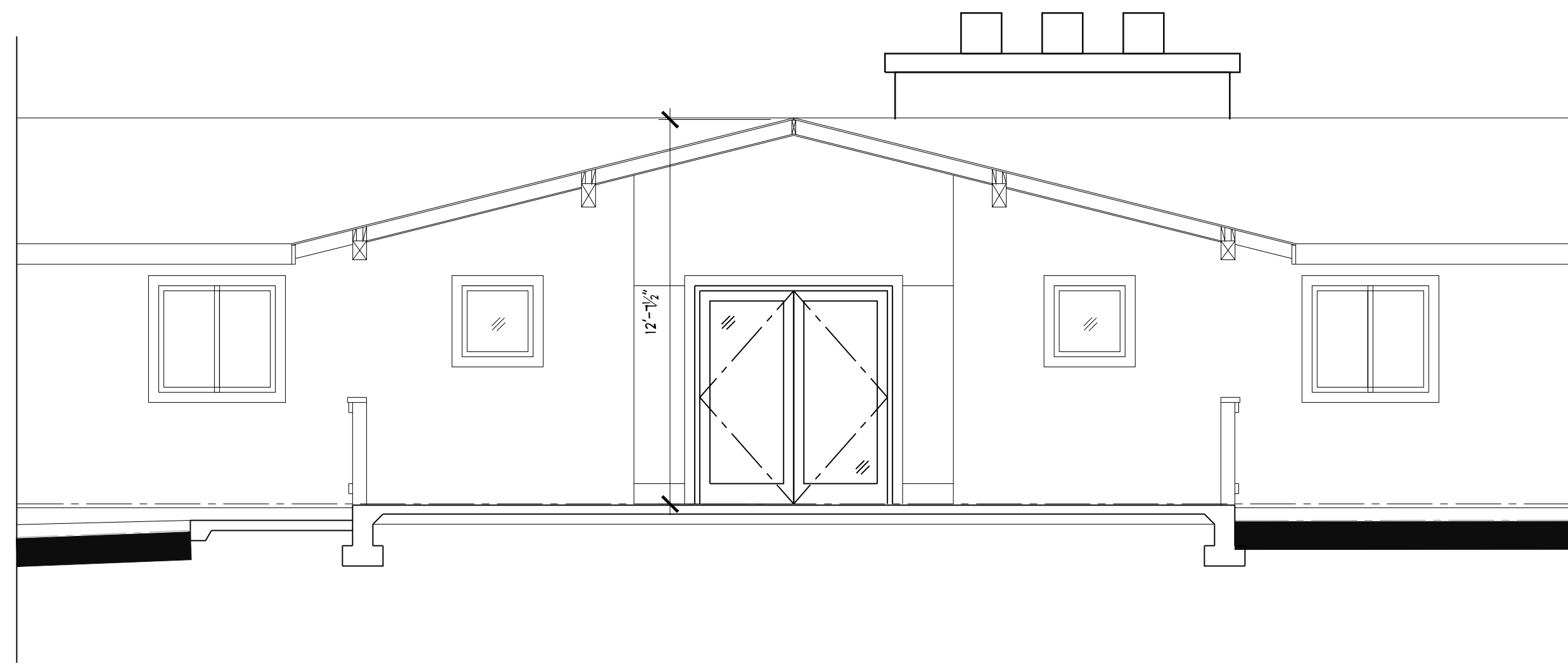
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PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

Approved for the Owner By: _____ Date: _____	
REVISIONS	BY
PLOT DATE:	1/3/20
ISSUE DATE:	12/12/19
DRAWN BY:	BDK
JOB NO.:	

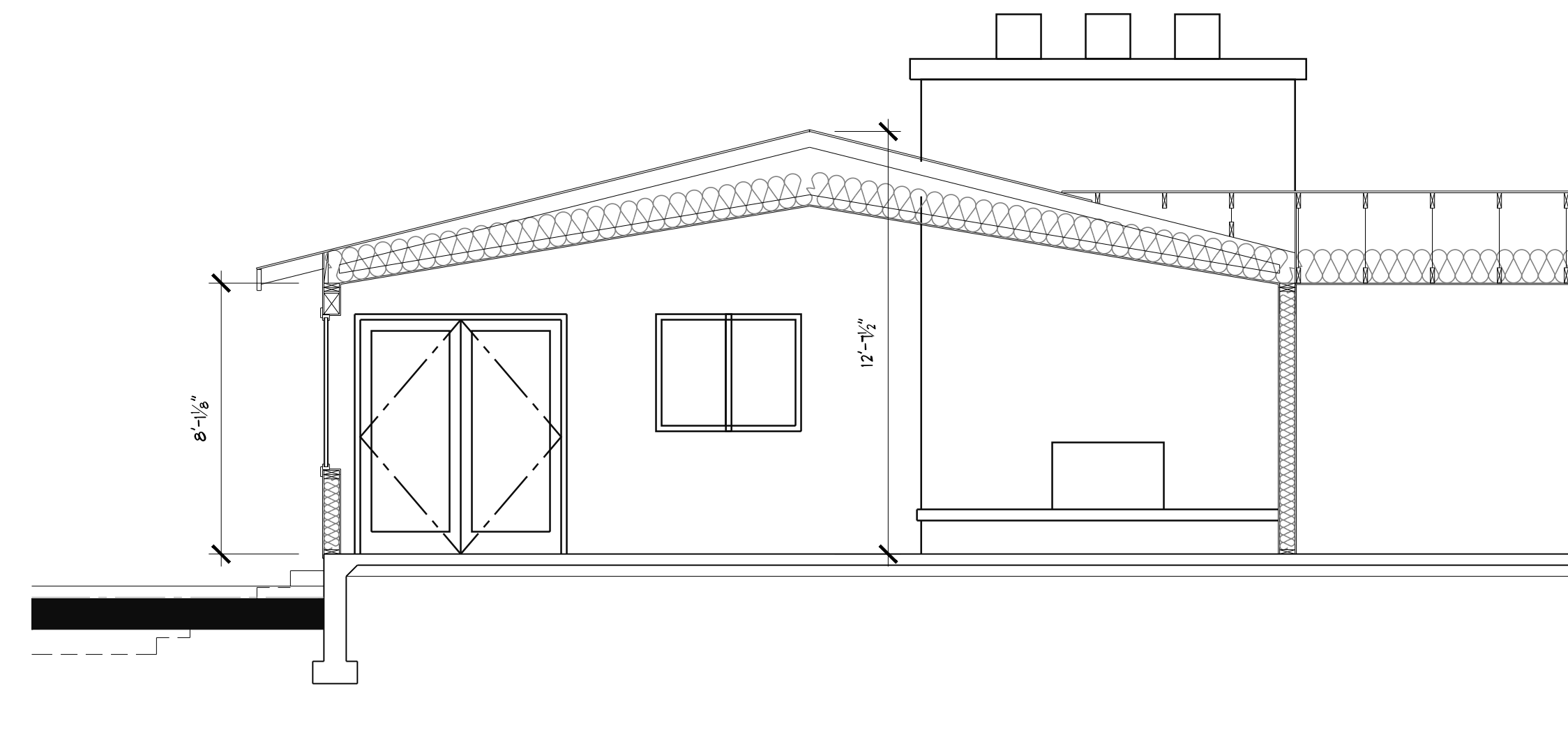
SHEET
A - LODGE BUILDING SECTIONS

A-301a

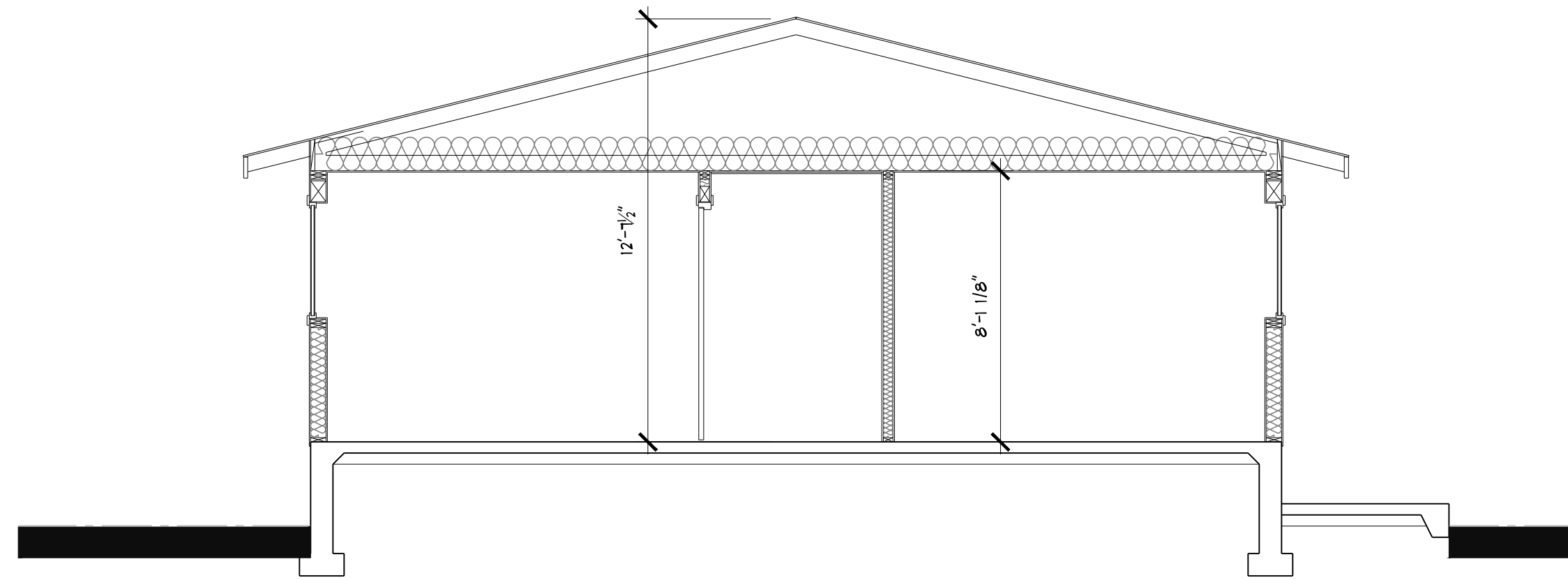
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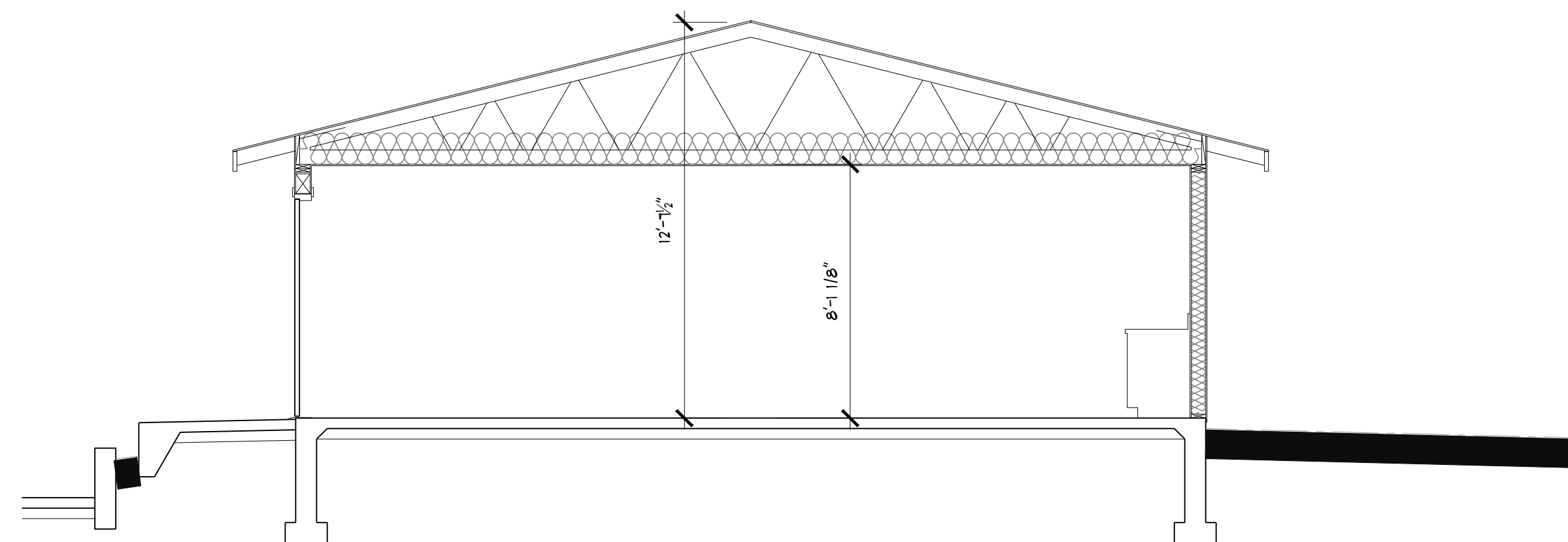
B1 BUNK HOUSE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



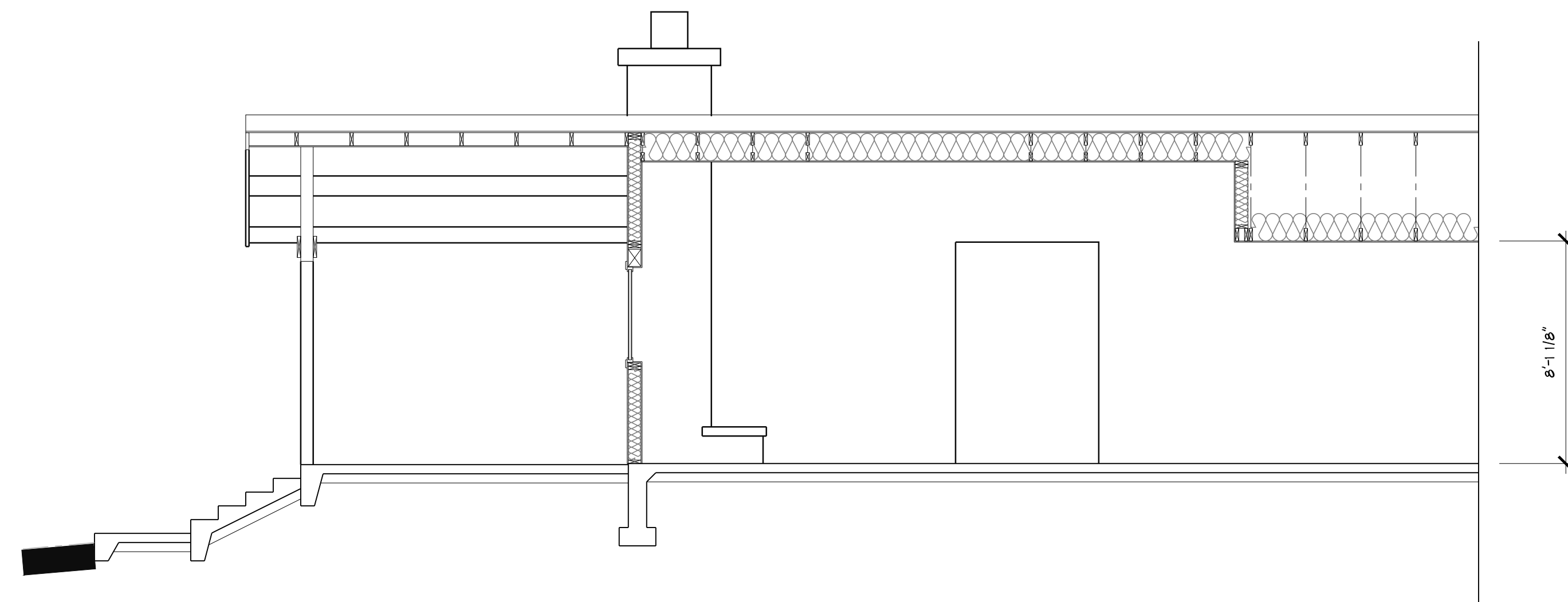
B2 BUNK HOUSE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



B3 BUNK HOUSE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



C1 COOK HOUSE - BUILDING SECTION
SCALE: 1/4" = 1'-0"



B4 BUNK HOUSE - BUILDING SECTION
SCALE: 1/4" = 1'-0"

S:\PROJECTS\R-Ranch\19-5202\Drawing\Construction Drawings\R-RANCH PROJECT\Sheets\A-301b BUNK-COOK BUILDING SECTIONS.dwg, A-301b BUNK-COOK BUILDING SECTIONS, 1/3/2020 11:42:03 AM, DWG To PDF.pc3

0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

PERMIT REVIEW
KLAMATHON FIRE RE-BUILD

R-RANCH
PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

Approved for the Owner By: _____ Date: _____	
REVISIONS	BY
PLOT DATE:	1/3/20
ISSUE DATE:	12/12/19
DRAWN BY:	BDK
JOB NO.:	

SHEET
**B - BUNK & COOK
HOUSE BUILDING
SECTIONS
A-301b**

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STRUCTURAL GENERAL NOTES

GENERAL REQUIREMENTS

- Codes and Standards
 - Design of new elements conforms to the 2014 State of Oregon Edition Structural Specialty Code (SSC) based on the 2012 Edition International Building Code (IBC). All reference to other codes such as ACI, ASTM, etc. shall be the edition as adopted by the SSC.
- Contractor Responsibilities
 - The General Contractor (GC) is responsible for carrying out the requirements of these documents through the use of their own efforts or that of sub-contractors.
 - The GC is responsible for all construction methods, techniques, sequencing, and safety required to complete construction. All instructions contained in these documents are interpreted to be instructions to the GC and are the responsibility of the GC to fulfill.
- Verify existing conditions prior to proceeding with construction. Immediately bring discrepancies to the attention of the Engineer of Record (EOR).
- Measure dimensions of any existing structures associated with the work and coordinate with required dimensions for new construction. Drawing scales are indicated for reference to assist with clarifying the work and providing proportions that resemble actual conditions. Do not measure drawings for construction. Use text dimensions provided. Request unknown dimensions from the Architect or Engineer with sufficient lead time to prevent construction delay.
- Arrange for and coordinate work by trades and suppliers. Facilitate required inspections, special inspections and tests specified by contract documents, Building Code and permit. Where coverings or work conceals items or areas to be inspected prior to satisfactory approval, the GC is responsible for removal and replacement of coverings or work as necessary without cost to the owner or Engineer.
- Shop drawings are required for the following items:

DRAWINGS REQ'D IF MARKED	ITEM	ENGINEERS STAMP REQ'D IF MARKED
[]	Reinforcing Steel	[]
[]	Manufactured Wood Joists	[]
[]	Manufactured Wood Beams & Glue-laminated Beams (GLB)	[]
[]	Light Metal Plate Connected Wood Trusses	[]

- Submit shop drawings for review, for each material indicated, prior to construction. Shop drawings do not replace or supersede the requirements of the structural drawings. Special inspection shall be based on the structural drawings. Any discrepancy between the shop drawings and structural drawings shall be reported to the EOR by the contractor and by the special inspector for items that require inspection.
- This structure must be fully braced for wind and seismic loads during construction (see Item 2A above). Contractor provided bracing must remain in place until the permanent lateral force resisting system of the structure is completed.
- Where/If construction occurs around existing structures, protect existing footings from being undermined. Provide engineering drawings as necessary to protect existing structures. Repair damage, where caused by construction activity, to existing structures.
- Install items manufactured or supplied by others per the manufacturer's specifications.
- Where details of construction are not explicitly shown, provide materials and construction of the same type and character as that of similar conditions used on the project. The actual details used shall be submitted to the Engineer for approval prior to ordering materials or beginning construction.
- Any conflict or discrepancy shall be brought to the attention of the Engineer of Record (EOR) for clarification and resolution prior to ordering materials or beginning construction.

General Contractor Warranty Requirements

- By acceptance of this project the General Contractor (GC) warrants that:
 - The GC and subcontractors hired by the GC have carefully and thoroughly reviewed the drawings and structural notes and have found them complete and free from ambiguities and sufficient for the purpose intended; further that,
 - The GC has carefully examined the work site and that from those investigations is satisfied as to the nature and location of the work, as to the character, quality, quantities of material, and difficulties to be encountered, as to the extent of equipment and other facilities as needed for the performance of the work, and as to the general and local conditions, and other items which may affect the work or its performance; further that
- The GC and all workers are experienced in the type of construction represented by the drawings and documents; further that
- Neither the GC or their employees, agents, intended suppliers, or subcontractors, have relied upon verbal representations allegedly authorized or unauthorized from the owner or their employees or agents, including the Engineer of Record.
- Bring discrepancies to the attention of the Engineer of Record at least 10 days prior to close of bid.
 - The GC warrants that construction cost for items not brought to the attention of the Engineer of Record (EOR) prior to bid, but that require clarification or EOR assistance during construction, will be covered by the bid amount agreed to by the GC. See Item 21 above.

Design Loads

- Roof Loads
 - Total Dead Load = 20 psf
 - Snow Load = 40 psf
- Wind Load
 - Basic Wind Speed = 95 mph (3-second gust)
 - Importance Factor, *I*_w = 1.00
 - Exposure = C
- Seismic Load
 - Importance Factor, *I*_e = 1.00
 - Risk Category = II
 - Mapped Spectral Response Accelerations: *S*_s = 0.35g *S*₁ = 0.32g
 - Soil Site Class = D
 - Spectral Response Coefficients: *S*_{ds} = 0.52g
 - Seismic-force-resisting system(s): Wood shearwalls
 - Response Modification Factor, *R* = 6.5
 - Analysis Procedure Used: Equivalent Lateral Force

- Equipment and Non-structural Components:
 - Determine actual equipment and non-structural component weights, locations, and sizes supplied for this project. Notify Engineer if weights exceed allowances noted on structural plans and if equipment footprints are reduced from that shown on plans.
 - For equipment and non-structural components weighing more than 400 lbs., prepare and submit seismic anchorage calculations and details sealed and signed by a professional Engineer registered in the State where this project is built.
 - Coordinate between subcontractors to insure that:
 - Additional secondary framing is provided as required. Design of equipment supports and secondary framing by the vendor's engineer shall conform to IBC requirements.
 - Edges of decking are supported at all openings. Deck penetrations are made and reinforced to conform to deck vendors reinforcing recommendations.
 - Openings, penetrations and accessories are located to avoid interference with structural elements.
 - Pre-engineered elements are designed to support all weights and forces.
 - Drace equipment and accessories per SMACNA Seismic Restraint Manual. Unusual ductwork, piping, or conduit configurations that fall outside of SMACNA minimum limits should be securely restrained to prevent movement.
 - Openings, penetrations and accessories are located to avoid interference with structural elements.
 - Pre-engineered elements are designed to support all weights and forces.

INSPECTION AND TESTING

- Construction
 - Construction will be inspected as required by the IBC as described in the Special Inspection Schedule. Special inspections and/or structural observations do not replace Building Code Section 110 inspections by the building inspector.
 - Items noted as requiring special inspection in accordance with IBC Chapter 17 shall be performed by a qualified person who can demonstrate certification for the particular type of construction being inspected. The Special Inspection agency shall be independent from Contractors or Suppliers related to the job. The Engineer or Record retains the right to reject, for any reason, the agency chosen for the job.
 - The Special Inspector shall not be hired by the Contractor. The Owner or an independent agent of the Owner shall hire the Special Inspector.
 - Special inspection is required per the Special Inspection Program, and/or as noted by design drawings, and shall be performed as required by Building Code Section 1704.
- Site Preparation
 - Remove vegetation, existing fill and any organic material until non-organic sub-grade soils are exposed. Remove material to a level at least eight inches below the existing grade. Roll three passes over the building area with a heavy vibratory roller. Extend rolled area at least five feet outside the perimeter footing line. Over-excavate any areas that the Geotechnical Engineer determines to exhibit excessive deflection. Place structural fill to replace removed material per the following section.
- Structural Fill and Compaction
 - Place structural fill and/or backfill after removal of forms, screeds, other wood debris and material subject to decay or corrosion. Use only materials approved by the Geotechnical Engineer for fill. Limit fill to clean, granular material placed in loose 9 inch lifts and determined by ASTM D1557 compaction test procedure. Verification of compaction will be done by random field density tests per the Special Inspection Schedule. Use light-weight hand operated equipment to compact fill within 6 feet behind walls. For any site, follow the recommendations of the Geotechnical Report in place of requirements specified here.

FOUNDATIONS

- A Geotechnical Investigation (Soils) Report has not been completed for this project
- Assumed design parameters:
 - Soil bearing
 - Dead + Live 1500 psf
 - Dead + Live + EQ/Wind 2000 psf
- Contact Geotechnical Engineer for site visit after site excavation but prior to any foundation construction. Site visit is to verify adequacy of actual soil conditions and for special inspections required to satisfy IBC requirements related to soils, structural fill, and/or backfill.
- Place footings & slabs on compacted fill as directed by the soils report or Geotechnical Engineer. Footings may be placed on firm original material as approved by the Geotechnical Engineer during a site visit.
- Center footings on walls & columns above unless noted otherwise on plans or sections.
- Place backfill behind walls after wall material attains its design strength and no sooner than 7 days after placement of concrete or grout. For retaining walls, use only backfill material that is free draining granular fill free of fines, silt or clay and approved by the Geotechnical Engineer. Install compact backfill in accordance with the geotechnical report requirements. GC is responsible for bracing walls during backfill operations. Protect walls from movement or damage due to backfilling operations. At contractors expense, replace walls damaged or displaced by improper backfilling operations.

REINFORCED CONCRETE

- Concrete
 - The American Concrete Institute- ACI 318 "Building Code Requirements for Structural Concrete" governs concrete materials and construction for this project. Acceptance of concrete is based on this code.
 - Use concrete with properties listed in the following table. All concrete strengths listed are the minimum strength. Submit statistical backup for mix designs along with mix design proportions for review. The Contractor is expected to know and follow standards of practice for formwork, mixing, placing, curing, cold and hot weather concreting and other relevant practices as described by ACI in the most current "ACI Manual of Concrete Practice".
 - Take a minimum of 3 concrete test cylinders as required by the Special Inspection Program. Break one cylinder after 7 days and two cylinders after 28 days. Take additional cylinders as required by the Special Inspection Program. Hold additional cylinders to be broken if problems arise with test strength at 28 days.
 - Do not place concrete on frozen ground.
 - Do not place electrical, mechanical, plumbing or similar conduits in slabs, walls or columns, or within 6 inches of the bottom of slabs on grade without prior approval from the Engineer.
 - Roughen all construction joints to a minimum amplitude of 1/4". Coarseness of amplitude shall be a 1/4" variation every 1 inch or less. Roughness may be applied when wet or dry by use of a bushing hammer or similar device.

Location	Minimum Strength (psi)	Maximum W/C Ratio [1]	Maximum Slump [2]	Largest Aggregate Size Req'd	Air Entrainment	Maximum Water Content
Footings & Stemwalls	3000	0.54	4"	3/4"	2%	N/A
Slab on Grade	3500	0.48	3"	3/4"	2%	275#/cy

- Water cementitious materials ratio (W/C) includes all cement, fly-ash and other cementitious products used. Maximum flyash replacement is 20%.
- Slump is the maximum allowed prior to the addition of water reducing or plasticizing agents.
- Cost of mid-range and high-range water reducers shall be included in bid price to increase workability as required.

- Non-shrink Grout
 - Non-shrink grout shall be non-metallic, non-shrink grout conforming to requirements of ASTM C1107, Type B or C, with a compressive strength of 5000 psi at 7 days. Acceptable products are Masterflex 42B, Sonograt 10K and Five Star Instant Grout or approved alternative.
- Reinforcing Steel (Rebar)
 - Fabricate, detail, and place in accordance with Building Code (Note 1A) supplemented by the following:
 - ACI 318 Building Code Requirements for Structural Concrete
 - ANSI A91.4 Structural Welding Code-Reinforcing Steel
 - Materials UNO
 - Deformed bar reinforcement ASTM A615 GR 60
 - Welded deformed bar reinforcement ASTM A706 GR 60
 - Welded wire fabric (flat sheets) ASTM F 2453
 - Field Bar Size #5 and smaller may be field bent one time during construction. Bending a bar out of the way and back may be bent two times maximum. Field bending for #6 and larger requires specific approval by Engineer.
 - The boundary zone vertical bars of all concrete shear walls shall be reinforced with reinforcing conforming to ASTM A706 Grade 60, except ASTM A615 Grade 60 reinforcement may be substituted provided that it conforms to the following supplemental specification:
 - Actual yield strength based on certified mill test is not more than 78 ksi, and
 - The ratio of actual ultimate strength to actual yield strength is greater than 1.25.
 - Boundary reinforcement of walls is the longitudinal reinforcement within tie cages specified at wall edges and corners, and at the perimeter of wall openings.
 - Welding electrodes shall conform to matching filler metal requirements defined by ANSI D1.4 Matching Filler Metals Requirements.
 - Where welding of reinforcing is specified, bars shall conform to ASTM A706. Do not weld reinforcing steel unless specified by design or without authorization of the Engineer.
 - Do not tack-weld reinforcing steel.
 - Support reinforcement with approved chairs, spacers, or ties. All concrete slab reinforcing steel shall be supported at the required heights by approved bolsters. All reinforcement and embeds shall be securely tied in place and shall be capable of supporting the weight of any worker without dislodging.
 - All structural anchor bolts shall be secured in place and inspected prior to delivery of concrete. Insertion of embedded items into wet concrete (wet setting) is prohibited unless approved prior to construction.
 - In walls and slabs, place (2) #5 bars around all openings and recesses unless noted otherwise. Extend these bars at least 2'-0" beyond the corner of the openings unless noted otherwise. Where bars cannot be extended 2'-0" beyond the opening, extend as far as possible and terminate the bar with a standard hook.
 - In walls and slabs, place (2) #5 x2'-0" diagonal bars at the corners of all openings.
 - At walls and footing intersections and corners, place corner bars same size and spacing as horizontal bars and lap splice (Ls) to horizontal bars.
 - See typical details for bends and hooks, hoops, ties and corner bar conditions.
- Reinforcing Protection (cover)
 - Concrete deposited against earth: 3 inches.
 - Formed concrete surfaces exposed to ground and weather:
 - #5 and smaller bar - 1-1/2 inches
 - #6 and larger bar - 2 inches

Concrete surfaces not exposed to weather or in contact with the ground: #11 and smaller bar - 3/4 inches

Lap Splice Length (Ls)

Bar [1, 3]	Ls "Top bars" [2]			Ls All Other Bars		
	3000 psi	3500 psi	4000 psi	3000 psi	3500 psi	4000 psi
#3	28"	26"	24"	22"	20"	18"
#4	37"	35"	32"	29"	27"	25"

Notes:
1. Bar shall be spaced at least three bar diameters center to center and shall have concrete cover of at least one bar diameter.
2. "Top bars" are horizontal bars with more than 12" of fresh concrete below splice.
3. Where different bar sizes are lap spliced, the required lap length is the Ls for the smaller bar and the required development length is the Ls for the bigger bar.

- Construction Joints (CJ)
 - Construction Joints shall be located where specified or as approved by the Engineer.
 - Construction Joints shall be made to transfer shear across the construction joint by intentionally roughening the surface to full amplitude of approximately 1/4 inch in two directions. Intentional roughening may be made while the initial placement is still plastic.
 - Keyed construction joints may be used only when explicitly detailed.
- Placement and Curing
 - Concrete conveying, depositing and consolidation shall be performed in accordance with ACI-301. Mechanical vibration shall be mandatory for all elements 12" and deeper and in all post-tension slabs.
 - Cure concrete with water for at least 14 days. Other curing methods may be submitted to the engineer for approval prior to concrete placement. Regardless of approved curing method, the GC retains responsibility for improperly cured concrete and agrees to repair or replace such concrete at the engineer or architects discretion.
 - Concrete shall be maintained above 50 degrees F for at least the first 7 days after placement.
 - Contractor shall protect curing concrete against hot or cold weather effects. When air temperatures exceed or are expected to exceed 85 degrees F, concrete shall be moist cured and kept continuously wet.

STRUCTURAL WOOD

- All structural wood members shall be Coast Region Douglas Fir No 2 for studs and Douglas Fir No 1 for posts and beams or better grade Fb as noted in National Design Specifications for Stress Grade Lumber and its fastenings, unless noted otherwise.
- All 2x framing members shall be kiln dried lumber, with a moisture content equal to or less than 19%. Green (unseasoned) lumber shall not be used for framing.
- Washers shall be used under all bolt heads and nuts bearing on wood.
- All wood sill plates and wood in contact with concrete shall be pressure treated.
- Boils shall be ASTM A-307.
- Washers shall be malleable iron washers (MIW) for wood to wood contact and 3"x3"-square x 1/4" thick plate washers at the sill plate to concrete connection of shear walls.
- Nails shall be common, American or Canadian manufacturer only.
- See National Design Specification for lag screws and shear plates.
- Light-gauge metal wood connectors shall be Simpson Strong-Tie or approved equal installed per manufacturer's instructions unless noted otherwise. Use only the nails, bolts, or screws specified by the manufacturer to provide the maximum possible load capacity for that connector unless noted otherwise.
- Minimum nailing per IBC Table 2304.9.1 fastening schedule.
- Plywood, oriented strand board, water board, each sheet shall bear the trademark of the American Plywood Association. All panels shall be AFA performance rated panels bonded with exterior glue. Thickness and layup are as shown on drawings. All panels shall be exposure 1 unless noted otherwise.
- Fasteners in contact with pressure-treated wood shall be hot-dipped zinc-coated galvanized steel or stainless steel.
- The Contractor shall furnish and install all bolts, nails, and plates shown, specified by the connector supplier, and otherwise required to complete the job.
- Wood I-Joists
 - Framing members shall be designed to support the specified loads and limit maximum total load deflection to 1/360 of the span and live load deflections to 1/480 of the span.
 - The contractor shall install all components in accordance with Boise-Cascade Western Engineered Wood Products Installation Guide unless noted otherwise.
 - The joist manufacturer shall supply all joists, associated load transfer blocks, hangers, bracing, blocking and beveled plates as required to complete the floor and/or roof framing.
 - Submit shop drawings for joists for approval prior to fabrication.
 - The quality standard for wood I-joists and rim boards are the Boise-Cascade BCI Joist series (NER-446 and NER-544) and Boise Versa-Rim Plus (NER-442) engineered wood products.

METAL PLATE CONNECTED ENGINEERED WOOD TRUSSES

- Truss manufacturer's design shall include required bearing, temporary and permanent bracing, fastening and attaching devices to carry the specified loads.
- Truss manufacturer to provide shop drawings to the Engineer of Record that include design for permanent bracing per BC51-53. Shop drawings to include bracing locations, bracing member sizes, and connection of bracing to truss.
- Erection and installation shall be in accordance with the specifications set forth by the manufacturer.
- The joist manufacturer shall supply all joists, associated load transfer blocks, hangers, bracing, blocking and beveled plates as required to complete the floor framing.
- Submit shop drawing for trusses for approval prior to fabrication.
- Provide calculations for trusses stamped by an Engineer registered in the State of Oregon together with the final accepted shop drawings. Submit one copy to the building official responsible for this structure.
- Framing members shall be designed to support the specified loads and limit maximum total load deflection to 1/240 of the span and live load deflection to 1/360 of the span.

LAMINATED VENEER LUMBER (LVL)

- Laminated veneer lumber shall be manufactured in accordance with ICB/NER approved specifications.
- LVL's shall be:
 - Boise Cascade Versa-Lam 28Fb (NER-442)
 - Trus-Joist, OE Parallam PSL (NER-481)
 - Approved equal
- Laminated veneer lumber shall meet or exceed the following structural properties:
 - Modulus of elasticity 2000 ksi
 - Bending allowable stress 3100 psi
 - Shear allowable stress 285 psi
- Provide flashing, moisture proofing, and/or shielding as required to prevent prolonged exposure to wet conditions or temperature exceeding 150 degrees F.

ABBREVIATIONS (UNO)

above	ABV
alternate	ALT
anchor bolt	ANCH
architectural	ARCH
base plate	BASE PL
beam	BM
bearing	BRG
block	BLK
blocking	BLK'S
both sides	BS
bottom	BTM
bottom of beam	BOB
bottom of footing	BOF
bottom of steel	BOB
bracing	BRG'S
building	BLD'G
cast in place	CIP
center	CTR
centerline	CL OR CL
clear/clearance	CLR/CLRC
column	COL
concrete	CONC
concrete masonry unit	CMU
construction joint	CJ
continuous	CONT
dead load	DL
deep	DP
detail	DTL
diagonal	DIAG
diameter	DIA
dimension	CL OR Ø
dim	DIM
ditto, do over	-do-
double	DBL
drawing	DWG
each	EA
each face	EF
each side	ES
each way	EW
equal	EQ
expansion	EXP
exterior	EXT
far side	FS
finish	FIN
finish floor	FF
Flange	FLG
Floor	FLR
foot/feet	FT
footing	FTG
foundation	FND
face of concrete	FCC
face of masonry	FOM
face of stem, stud	FOS
header	HDR
height	HT
horizontal	HORIZ OR H
include	INCL
inside diameter	ID
inside face	IF
interior	INT
joint	JNT
kips (k)	KIP(S)
kips per square inch	KSI
location, locate	LOC
long leg horizontal	LLH
long vertical	LVY
machine bolt (ASOT quality UNO)	MB
material	MATL
maximum	MAX
mechanical	MCHL
metal	MTL
mezzanine	MEZZ
minimum	MIN
miscellaneous	MISC
near side	NS
not to scale	NTS
not in contract	NIC
on center	OC
opening	OPN'G
opposite	OPP
outside diameter	OD
outside face	OF
precast/precast panel	PC/PCP
panel	PNL
places	PLCS
plate	PL OR PL
pounds per square foot	PSF
pounds per square inch	PSI
pressure treated	PT
quantity	QTY
reference	REF
reinforce, -ed, -ing, -ment	REINF
required	REQ'D
revise/revision	REV
rough opening	RO
sawcut contraction joint	SCJ
schedule	SCHED
section	SECT
sheet	SHT
similar	SMT
slab on grade	SOG
spacing	SPC'G
special concentric braced frame	SCCBF
specification	SPEC
square	SQ
staggered	STAG
standard	STD
steel	STL
structural	STRUCTL
top and bottom	T&B
top of beam elevation	TOB
top of concrete	TOC
top of footing	TOF
top of steel	TOP
typical	TYP
top of masonry	TOM
top of wall	TOW
unless noted otherwise	UNO
vertical	VERT OR V
welded wire fabric	WWF
welded headed studs	WHS
with	W/
without	W/O
working point	WP

STRUCTURAL SHEET INDEX

SHEET NO.	SHEET TITLE
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S-103b	FOUNDATION PLAN BUNK HOUSE
S-104a	ROOF FRAMING PLAN POOL HOUSE
S-104b	ROOF FRAMING PLAN BUNK HOUSE
S-600	FOUNDATION DETAILS
S-800	ROOF FRAMING DETAILS

PRELIMINARY
NOT FOR CONSTRUCTION
JANUARY 15, 2020

STRUCTURAL SOLUTIONS, INC.

3559 National Dr., Ste. 103 Medford, Oregon 97504
P: 541-608-8117 www.StructuralSolutionsInc.net

ARCHITECTURE

132 W. Main Street, Suite 101
Medford, Oregon 97501
PH: 541 772-4372 | OREGONARCHITECTURE.BIZ

R-RANCH

APPROVED FOR THE OWNER BY: _____ DATE: _____

REVISIONS	BY

PLOT DATE: 1/13/20
ISSUE DATE: 02-01-20
DRAWN BY: MSS
JOB NO.: SSI JOB #: 303-19
SHEET

GENERAL NOTES

S-001

KEYED NOTES

- [1] 4" CONC SLAB W/ #3 @ 16" OC EA WAY, SEE (2) FOR SUBGRADE REQUIREMENTS.
- [2] SAW-CUT CONTROL JOINTS TO ENCLOSE A MAXIMUM SLAB AREA OF 150 SQ. FT W/ A MAXIMUM SPACING OF 15'-0". SEE (1) FOR FURTHER REQUIREMENTS.

- GENERAL NOTES
 1. SEE S1 FOR GENERAL NOTES.
 2. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OR FABRICATION.
 3. SEE ARCH'L FOR ADD'L DIMENSIONS.

LEGEND

- CONC FOOTING
- SAWCUT CONTROL JOINT
- ☒ WOOD COLUMN ABOVE (or HEADER COLUMN)

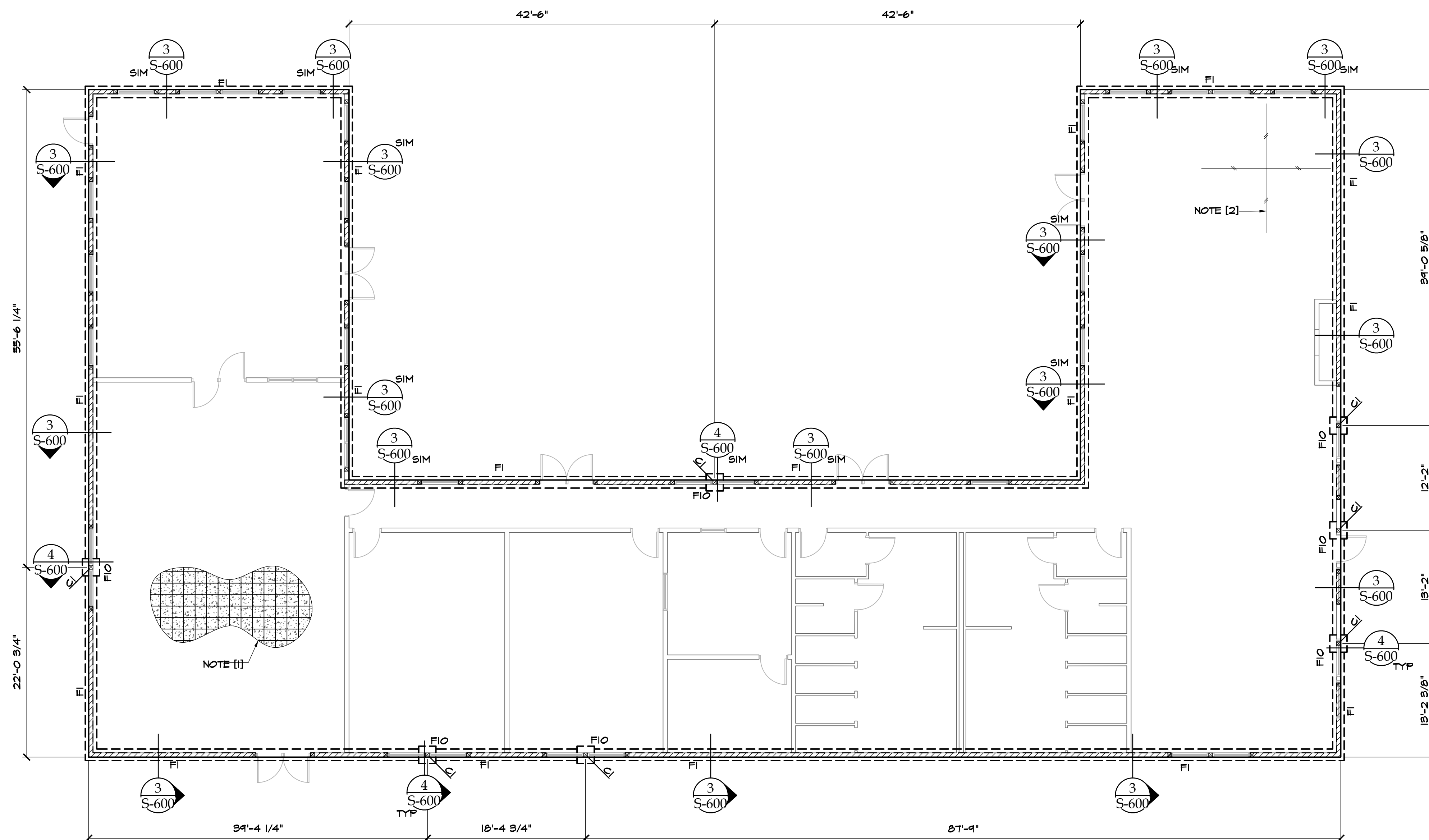
FOOTING SCHEDULE:

MARK	WIDTH	LENGTH	DEPTH	REINFORCEMENT
FI	16"	CONT	4"	(2) #4 CONT
FIO	2'-0"	2'-0"	4"	(2) #4 EA WAY

COLUMN SCHEDULE:

MARK	SIZE
C1	4x 6 DF #1

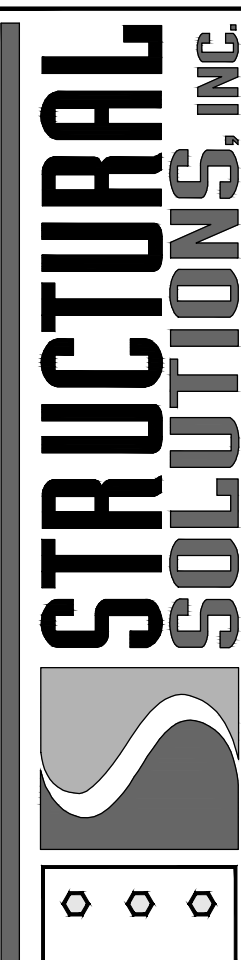
- NOTES:
 1. SEE HEADER SCHEDULE FOR HEADER COLUMN REQUIREMENTS.
 2. ALL BUILT-UP COLUMN STUDS TO BE DF #2 GRADE OR BETTER.
 3. MAX UNBRACED LENGTH (L_U) OF COLUMNS: L_U/d < 50 (L_U= UNBRACED LENGTH, d= DEPTH OF COLUMN ABOUT UNBRACED AXIS)



FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

PRELIMINARY
 NOT FOR CONSTRUCTION
 JANUARY 13, 2020
 100% DTD



STRUCTURAL SOLUTIONS, INC.
 3559 National Dr., Ste. 103 Medford, Oregon 97504
 P: 541-608-8117 www.StructuralSolutionsInc.net



OREGON ARCHITECTURE
 132 W. Main Street, Suite 101
 Medford, Oregon 97501
 PH: 541 772-4372 | OREGONARCHITECTURE.BIZ

R-RANCH
 PROJECT LOCATION:
 225 DITCH CREEK ROAD, HORNBROOK, CA 96044
 PARCEL:

Approved for the Owner By: _____	Date: _____
REVISIONS	BY

PLOT DATE: 1/13/20
 ISSUE DATE: 02-01-20
 DRAWN BY: MSS
 JOB NO.: SSI JOB #: 303-19
 SHEET
A - FOUNDATION PLAN
S-103a

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FOOTING SCHEDULE:

MARK	WIDTH	LENGTH	DEPTH	REINFORCEMENT
F1	8"	CONT	4"	(2) #4 CONT
F2	16"	CONT	4"	(2) #4 CONT
F10	1'-6"	1'-6"	4"	(2) #4 EA WAY
F11	2'-0"	2'-0"	4"	(2) #4 EA WAY

COLUMN SCHEDULE:

MARK	SIZE
C1	(3) 2x 6 DF # 2
C2	4x 6 DF #1

NOTES:
 1. SEE HEADER SCHEDULE FOR HEADER COLUMN REQUIREMENTS.
 2. ALL BUILT-UP COLUMN STUDS TO BE DF #2 GRADE OR BETTER.
 3. MAX UNBRACED LENGTH (L_u) OF COLUMNS:
 L_u/d < 50 (L_u= UNBRACED LENGTH, d= DEPTH OF COLUMN ABOUT UNBRACED AXIS)

KEYED NOTES

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- [2] SAW-CUT CONTROL JOINTS TO ENCLOSE A MAXIMUM SLAB AREA OF 150 SQ. FT W/ A MAXIMUM SPACING OF 15'-0". SEE (1) FOR FURTHER REQUIREMENTS.

GENERAL NOTES

- 1. SEE S1 FOR GENERAL NOTES.
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LEGEND

- CONC FOOTING
- SAWCUT CONTROL JOINT
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 100% DD

STRUCTURAL SOLUTIONS, INC.
 3559 National Dr., Ste. 103 Medford, Oregon 97504
 P: 541-608-8117 www.StructuralSolutionsInc.net

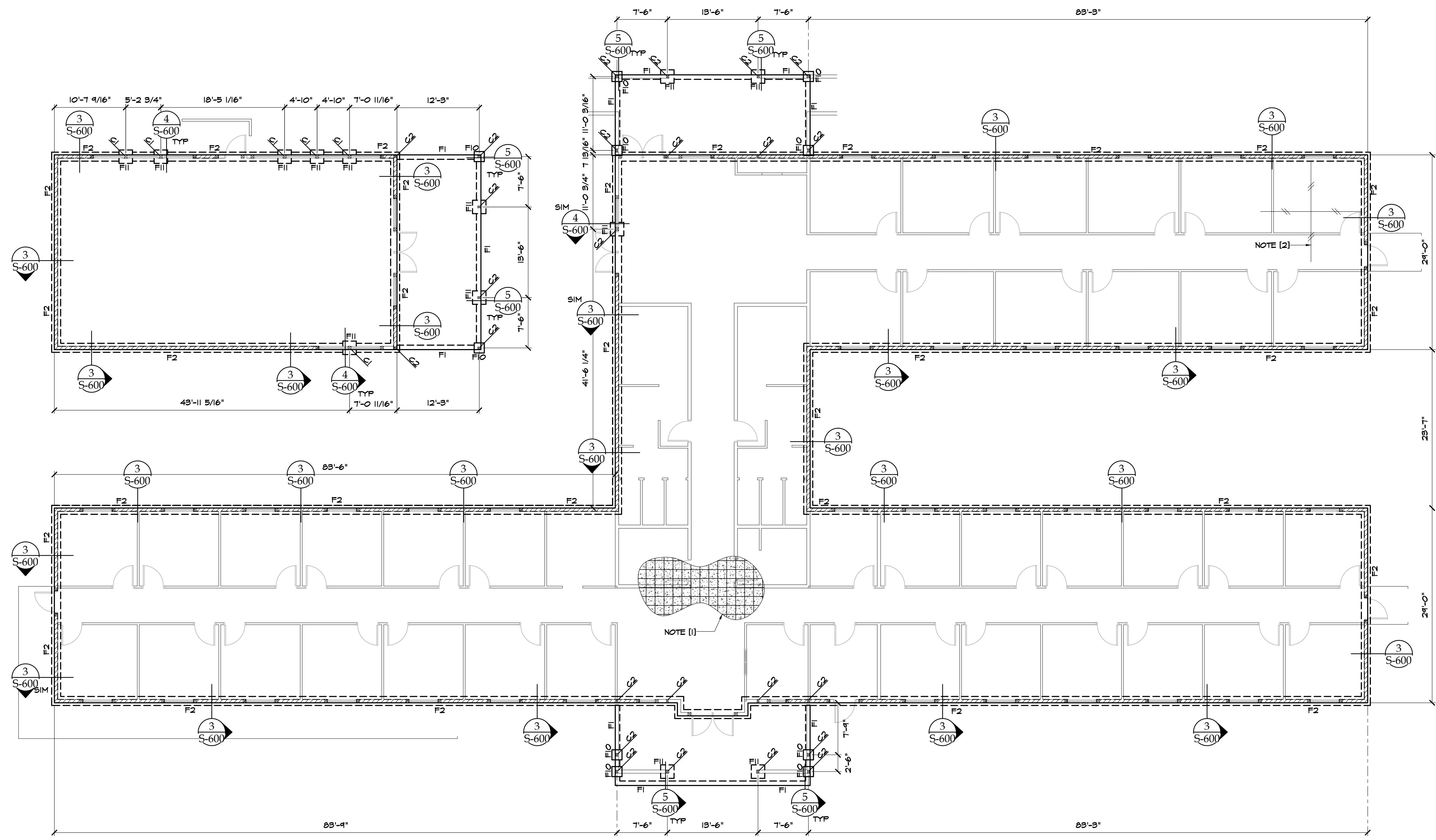
ARCHITECTURE
 132 W. Main Street, Suite 101
 Medford, Oregon 97501
 PH: 541 772-4372 | OREGONARCHITECTURE.BIZ

R-RANCH
 PROJECT LOCATION:
 225 DITCH CREEK ROAD, HORN BROOK, CA 96044
 PARCEL:

Approved for the Owner By:	Date:
REVISIONS	BY

PLOT DATE: 1/13/20
 ISSUE DATE: 02-01-20
 DRAWN BY: MSS
 JOB NO.: SSI JOB #: 303-19
 SHEET

B - FOUNDATION PLAN
S-103b



FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

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HEADER SCHEDULE:

MARK	HEADER	TRIM STUDS	KING STUDS
H1	4x 6 DF #2	(2) 2x	(1) 2x
H2	4x 8 DF #2	(3) 2x	(2) 2x
H3	4x 10 DF #2	(3) 2x	(2) 2x

- ALL HEADERS NOT CALLED OUT SHALL BE TYPE H1 MIN.
- SEE 4 FOR TYPICAL HDR/COLUMN CONNECTION.

PLYWOOD SHEARWALL SCHEDULE:

TYPE	SHT'S MAT'L	SIDES	NAILING SHT'S EDGES	SILL PLATE ANCHOR BOLTS	3x SILL PLATE REQUIRED?	3x STUDS REQUIRED?	NOTES
SW1	A	1	8d @ 6"	5/8"φ @ 48"	NO	NO	B

- 15/32" APA SPAN-RATED SHT'S, EXPOSURE 1 (OR 1/16" OSB).
- BLOCKING REQUIRED AT ALL EDGES.

GENERAL NOTES FOR SHEARWALL:

- NAILS CALLED OUT IN SCHEDULE SHALL MEET THE FOLLOWING CRITERIA:
8d - 0.191"φ x 2 1/2" LONG
10d - 0.148"φ x 3" LONG
16d - 0.164"φ x 3 1/2" LONG
- DBL 2x STUDS REQUIRED AT ALL HOLDDOWNS, UNO.
- ALL NAILING AT INTERMEDIATE PANEL SUPPORTS SHALL BE 12" OC, UNO.
- ALL ANCHOR BOLTS AT SILL PLATES FOR SHEARWALLS SHALL INCLUDE STEEL PLATE WASHERS, A MINIMUM OF 1/4" THICK x 3" SQUARE IN SIZE, BETWEEN THE SILL PLATE AND NUT.
- ALL HORIZONTAL AND VERTICAL EDGES OF PLYWOOD SHT'S ON SHEARWALLS SHALL BE SUPPORTED, BLOCKED AND EDGE NAILED, UNO.
- ALL ANCHOR BOLTS NOT CALLED OUT ON THE SHEARWALL SCHEDULE (ALL OTHER LOCATIONS) SHALL BE 5/8"φ @ 48" OC UNO IN DETAILS.
- ALL EXTERIOR WALLS NOT CALLED OUT AS SHEARWALLS SHALL BE TYPE SW1 (MIN).
- CAST IN PLACE AB'S MAY BE SUBSTITUTED WITH 5/8"φ 8" SIMPSON TITEN-HD'S.

GENERAL NOTES

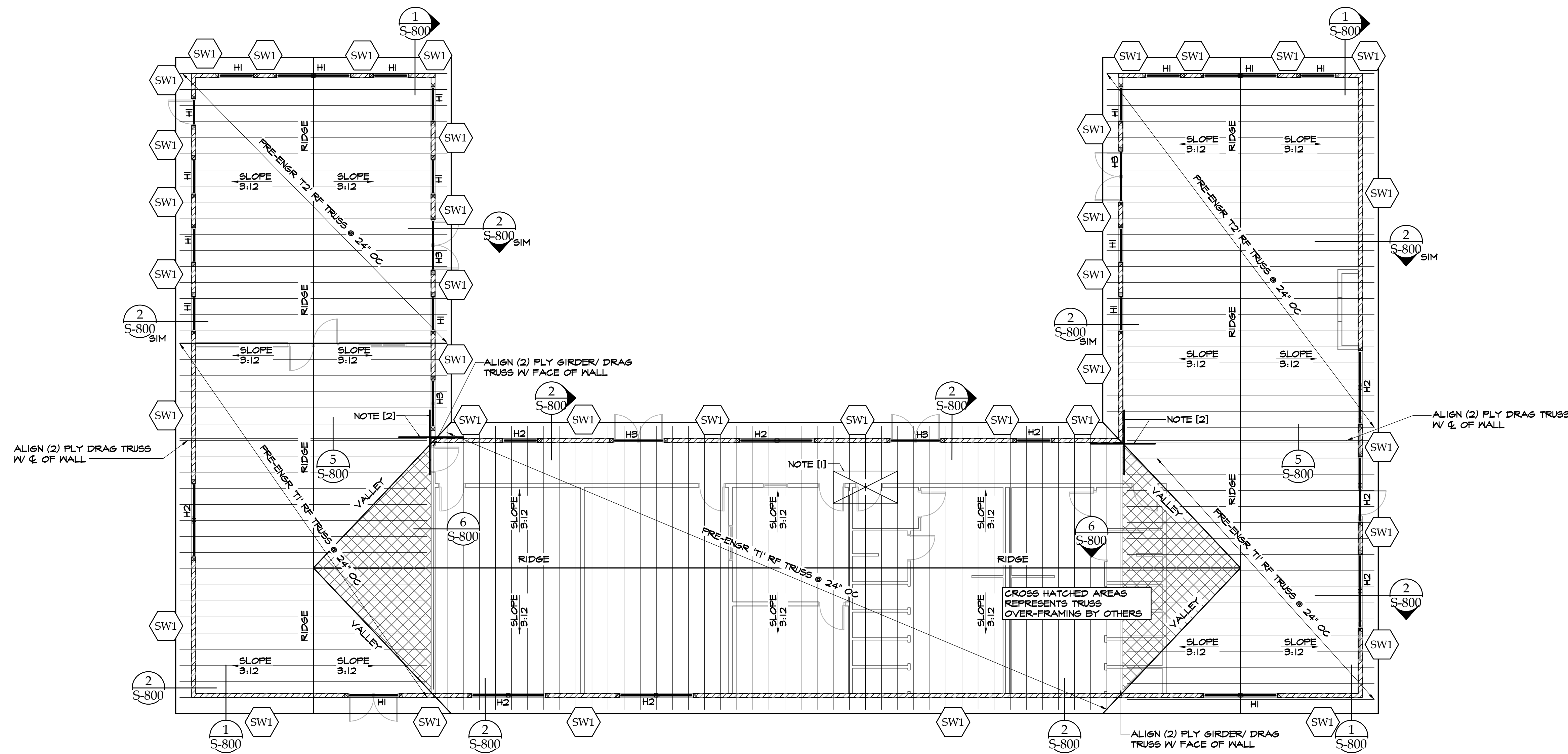
- SEE SI FOR GENERAL NOTES.
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OR FABRICATION.
- SEE ARCHL FOR ADD'L DIMENSIONS.

LEGEND

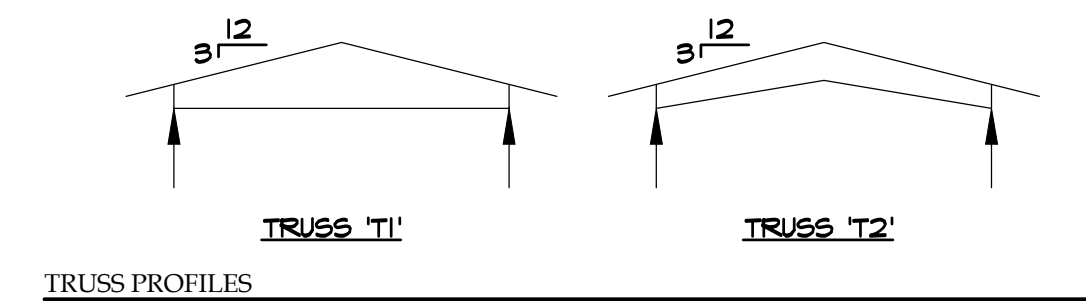
- SW# SHEARWALL TYPE PER SCHEDULE
- ██████ SHEARWALL PER SHEARWALL SCHED
- ⊠ WOOD COLUMN BELOW (OR HEADER COLUMN)

KEYED NOTES

- 5/8" APA SPAN-RATED SHT'S 40/20 W/ 8d @ 6" OC EDGES & 12" OC INTERMEDIATE. LAY PERP TO JOISTS & STAGGER JOINTS 4'-0" (UNBLOCKED)
- APPLY SIMPSON CSH6x 8'-0" LONG COILED STRAP FROM BITTH OF DRAG TRUSS TO TOP OF TOP PLATES. FILL HALF NAIL HOLES W/ 10d & CENTER STRAP ON CENTER OF TOP PLATES.



NORTH
ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

PRELIMINARY
NOT FOR CONSTRUCTION
JANUARY 13, 2020

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3559 National Dr., Ste. 103 Medford, Oregon 97504
P: 541-608-8117 www.StructuralSolutionsInc.net

ARCHITECTURE
OREGON
132 W. Main Street, Suite 101
Medford, Oregon 97501
PH: 541 772-4372 | OREGONARCHITECTURE.BIZ

R-RANCH
PROJECT DESCRIPTION:
PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

Approved for the Owner By:	Date:
REVISIONS	BY

PLOT DATE: 1/13/20
ISSUE DATE: 02-01-20
DRAWN BY: MSS
JOB NO: SSI JOB #: 303-19
SHEET
A - ROOF FRAMING PLAN
S-104a

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H2	4x 8 DF #2	(3) 2x	(2) 2x
H3	4x 10 DF #2	(3) 2x	(2) 2x

- ALL HEADERS NOT CALLED OUT SHALL BE TYPE H1 MIN.
- SEE S-800 FOR TYPICAL HDR/COLUMN CONNECTION.

PLYWOOD SHEARWALL SCHEDULE:

TYPE	SHT'S MATL	SIDES	NAILING		SILL PLATE ANCHOR BOLTS	3x SILL PLATE REQUIRED?	3x STUDS REQUIRED?	NOTES
			SHT'S EDGES	WALL SILL TO FLR				
SW1	A	1	8d @ 6"	16d @ 6"	5/8" @ 48"	NO	NO	B

- 15/32" APA SPAN-RATED SHT'S, EXPOSURE 1 (OR 1/16" OSB).
- BLOCKING REQUIRED AT ALL EDGES.

GENERAL NOTES FOR SHEARWALL:

- NAILS CALLED OUT IN SCHEDULE SHALL MEET THE FOLLOWING CRITERIA:
8d - 0.131" x 2 1/2" LONG
16d - 0.148" x 3" LONG
16d - 0.164" x 3 1/2" LONG
- DBL 2x STUDS REQUIRED AT ALL HOLD-DOWNS, UNO.
- ALL NAILING AT INTERMEDIATE PANEL SUPPORTS SHALL BE 12" OC, UNO.
- ALL ANCHOR BOLTS AT SILL PLATES FOR SHEARWALLS SHALL INCLUDE STEEL PLATE WASHERS, A MINIMUM OF 1/4" THICK x 3" SQUARE IN SIZE, BETWEEN THE SILL PLATE AND NUT.
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GENERAL NOTES

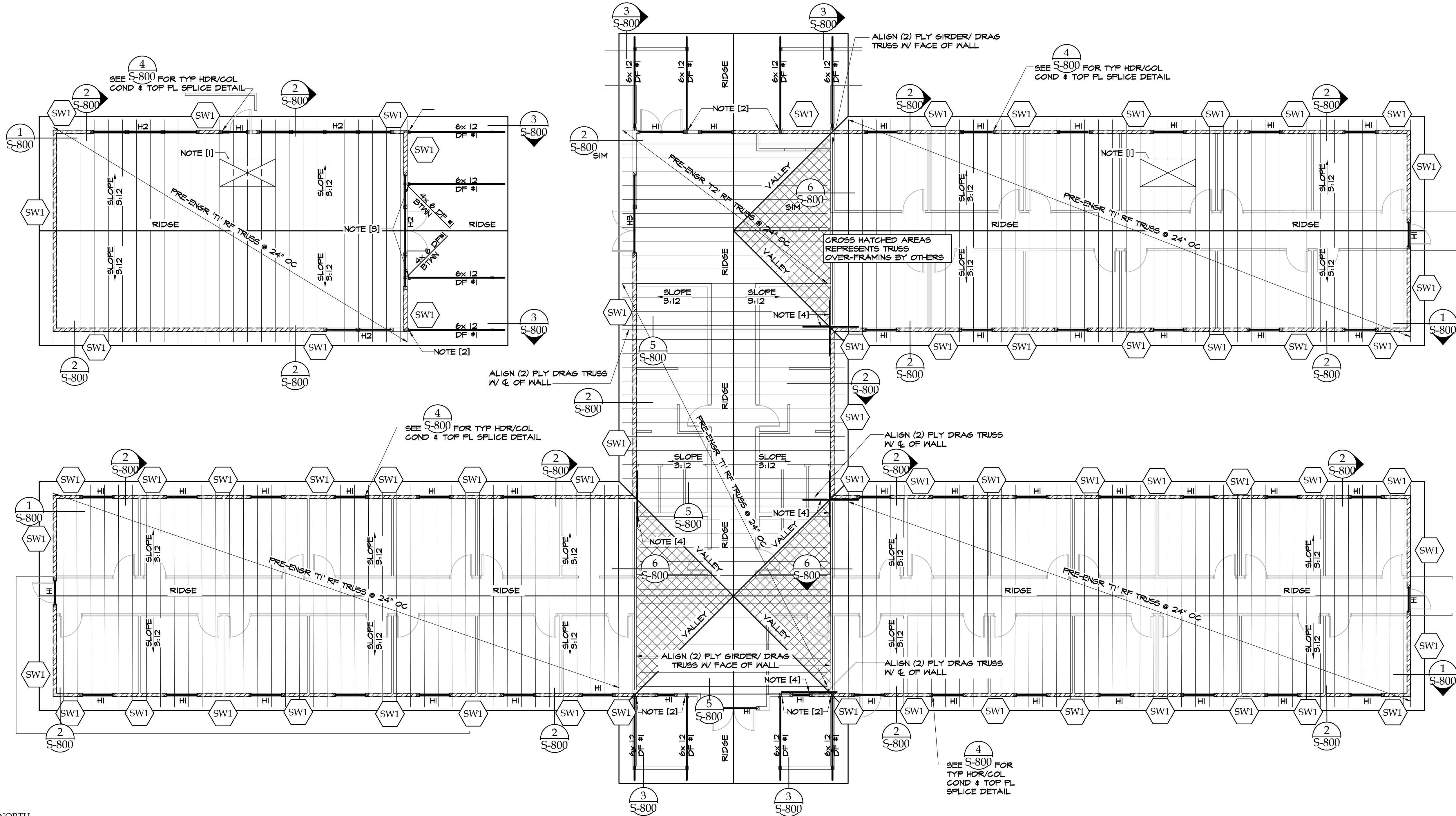
- SEE S1 FOR GENERAL NOTES.
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OR FABRICATION.
- SEE ARCHL FOR ADD'L DIMENSIONS.

LEGEND

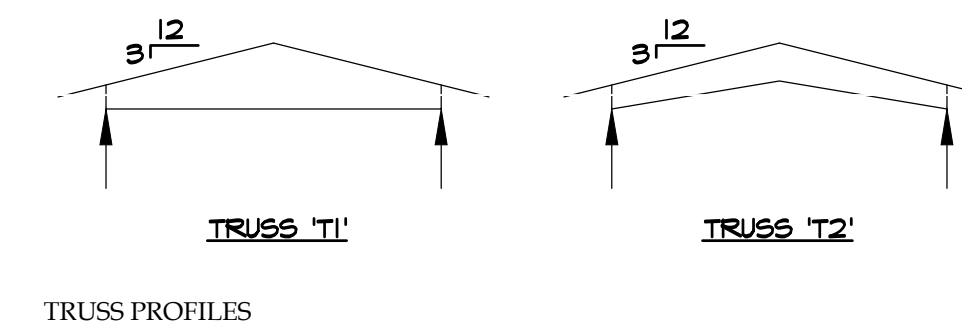
- SW# SHR WALL TYPE PER SCHEDULE
- Shearwall symbol SHEARWALL PER SHEARWALL SCHED
- WOOD COLUMN BELOW (OR HEADER COLUMN)

KEYED NOTES

- 5/8" APA SPAN-RATED SHT'S 40/20 W/ 8d @ 6" OC EDGES & 12" OC INTERMEDIATE. LAY PERP TO JOISTS & STAGGER JOINTS 4'-0" (UNBLOCKED)
- TRUSS MFR TO PROVIDE FULL-HT VERT MEMBER FOR BEAM. USE SIMPSON HUC614 FM HANGER TO HANG OFF TRUSS. SEE S-800 FOR FURTHER REQMENTS
- TRUSS MFR TO PROVIDE FULL-HT VERT MEMBER FOR BEAM. USE SIMPSON HUC612 FM HANGER TO HANG OFF TRUSS. SEE S-800 FOR FURTHER REQMENTS
- APPLY SIMPSON C516x 8'-0" LONG COILED STRAP FROM BTM OF DRAG TRUSS TO TOP OF TOP PLATES. FILL HALF NAIL HOLES W/ 10d & CENTER STRAP ON CENTER OF TOP PLATES. FOR FURTHER REQUIREMENTS SEE S-800



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

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REVISIONS BY: _____

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SHEET

B - ROOF FRAMING PLAN
S-104b

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PRELIMINARY
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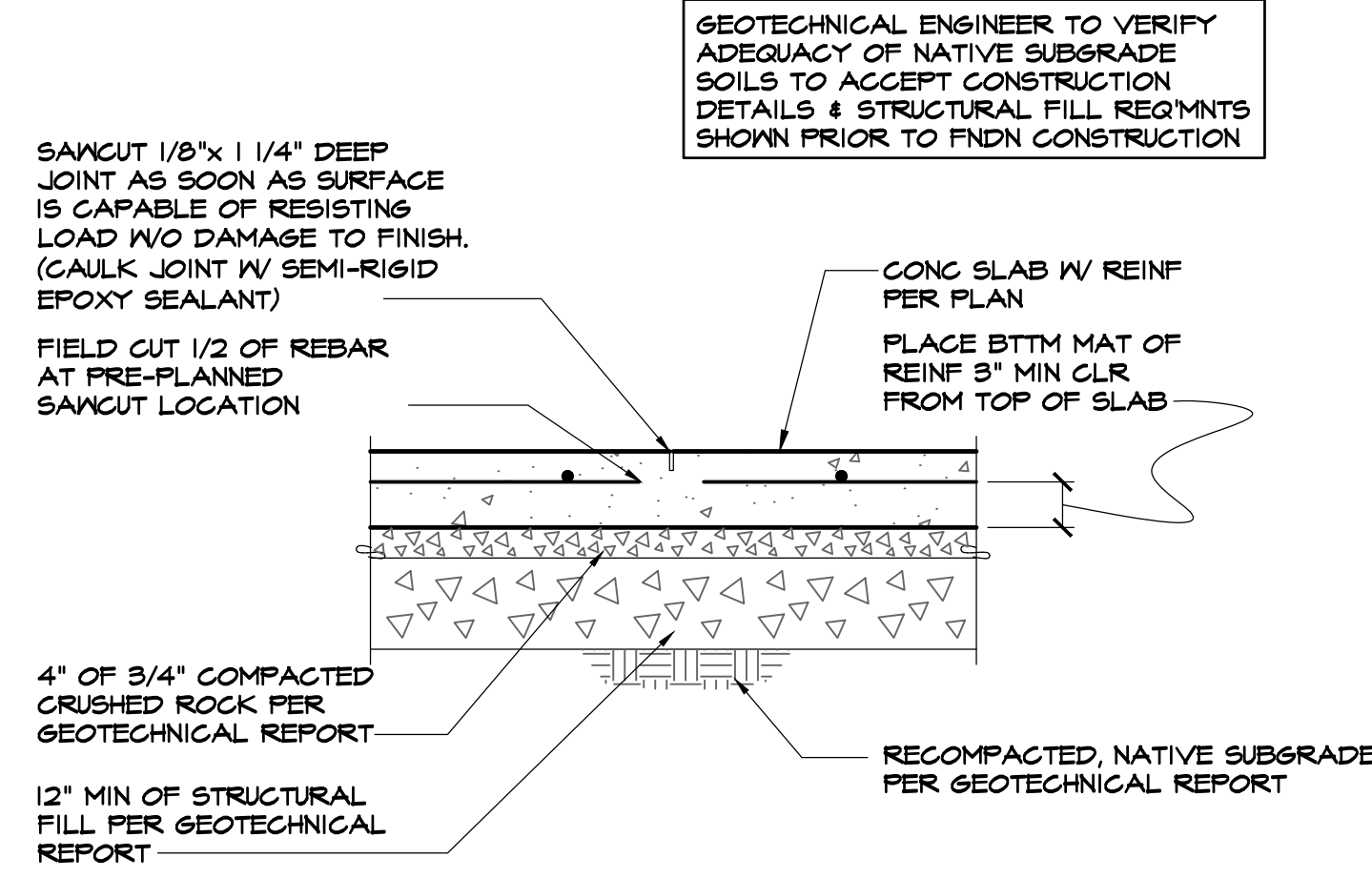
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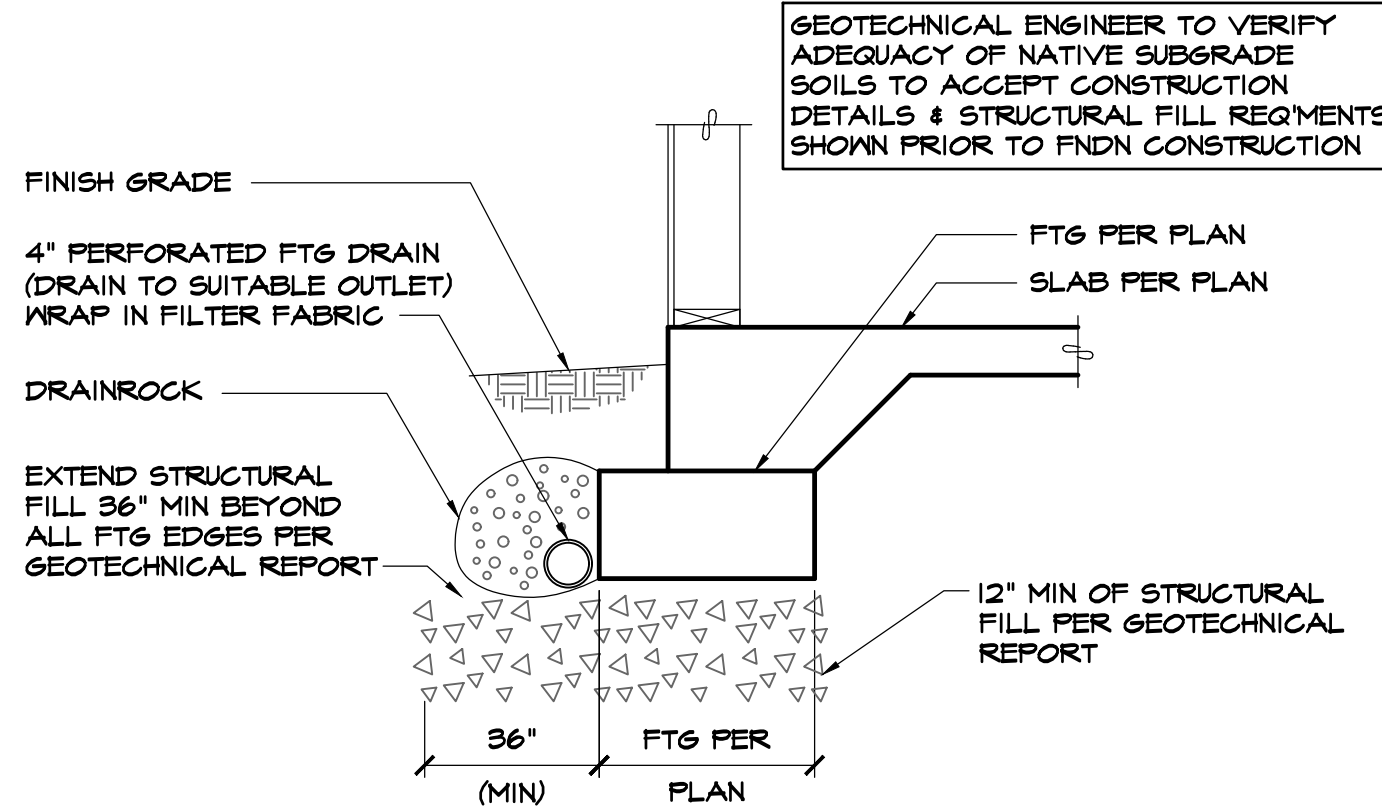
REVISIONS	BY

PLOT DATE: 1/13/20
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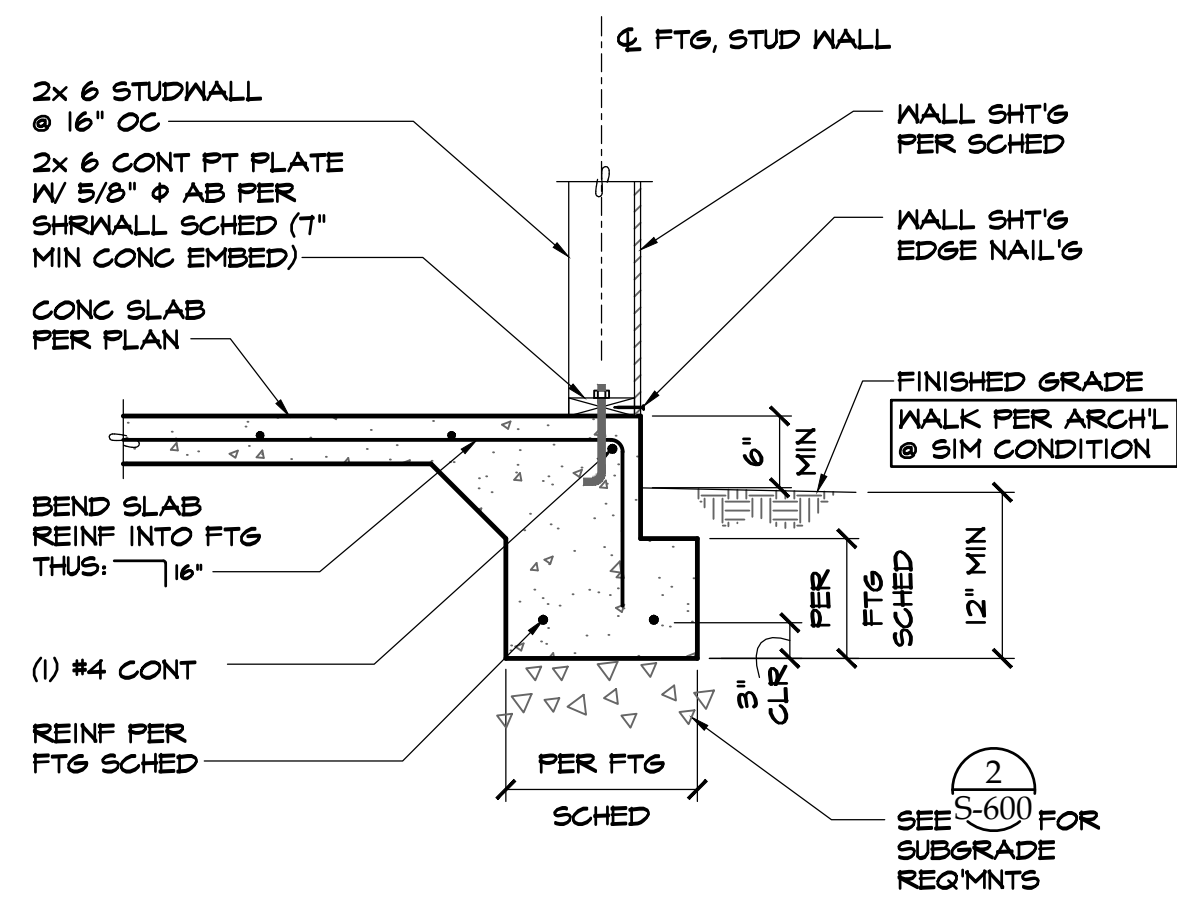
FOUNDATION DETAILS
S-600



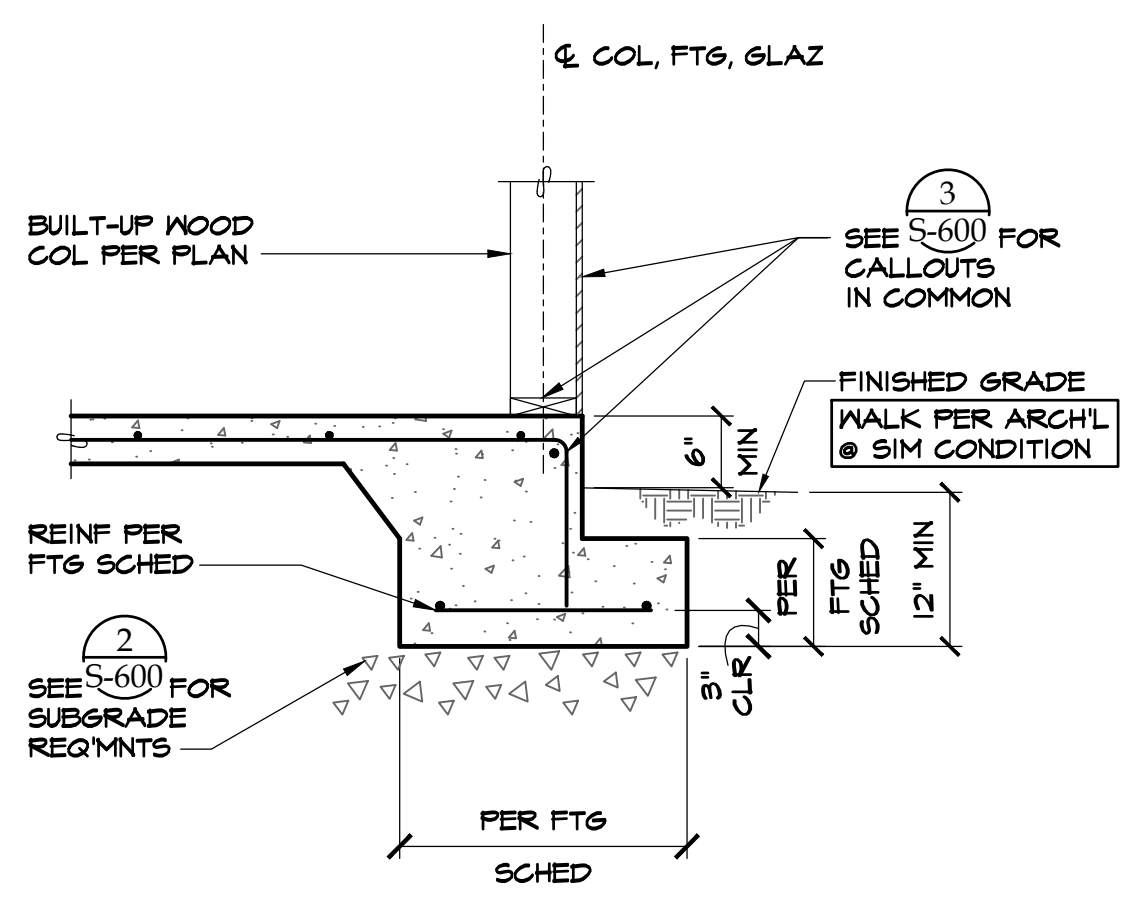
1 SLAB CONTROL JOINT & SUBGRADE
 SCALE: 1" = 1'-0"



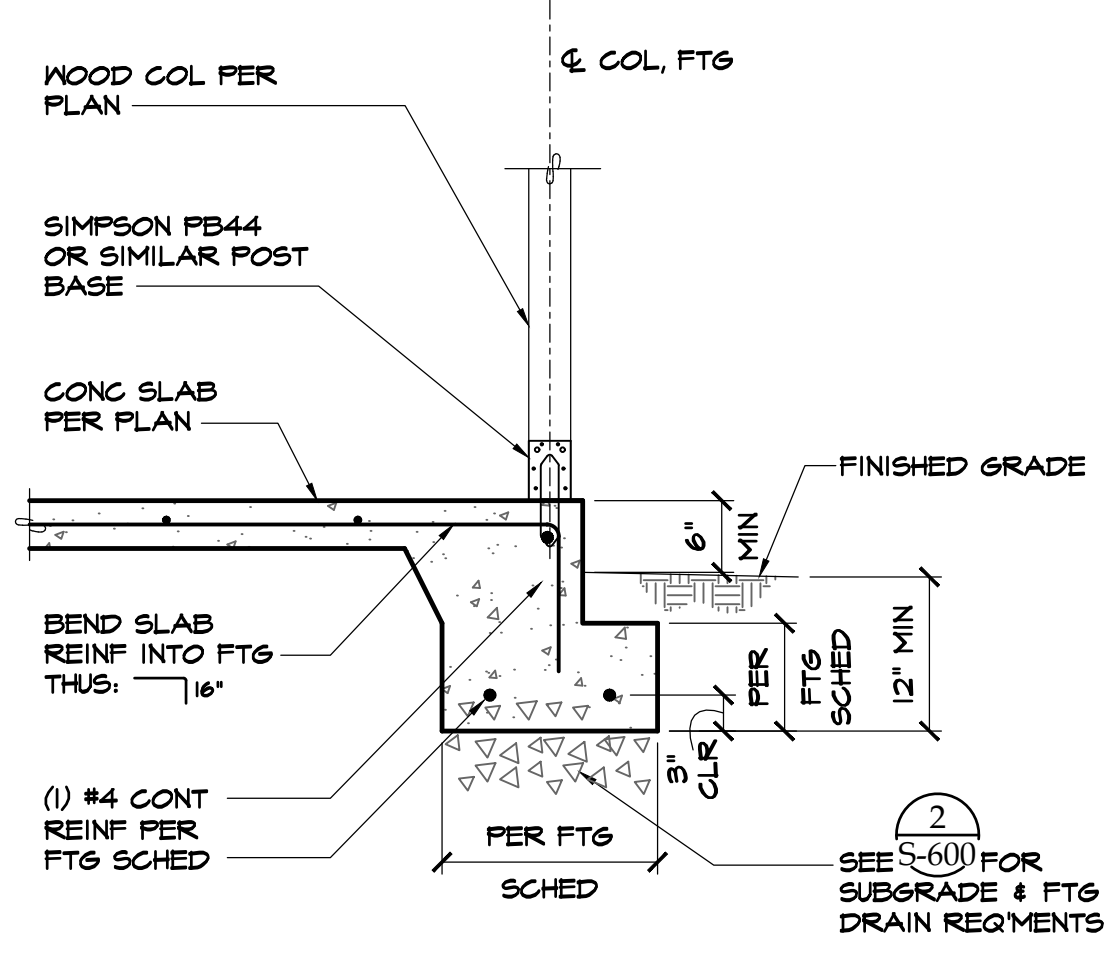
2 SUBGRADE at CONT EXTERIOR FTGS
 SCALE: 3/4" = 1'-0"



3 DETAIL
 SCALE: 3/4" = 1'-0"



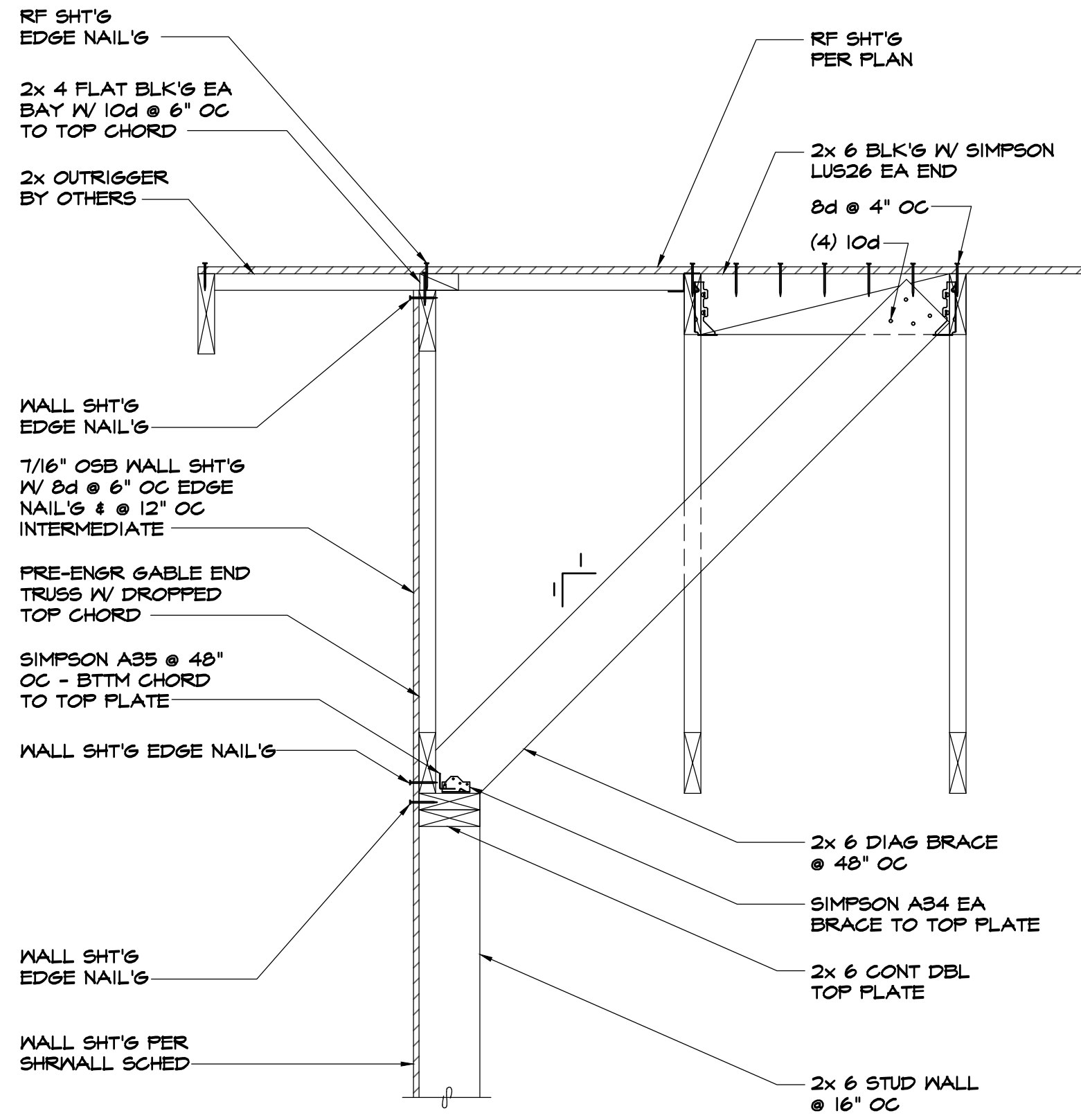
4 DETAIL
 SCALE: 3/4" = 1'-0"



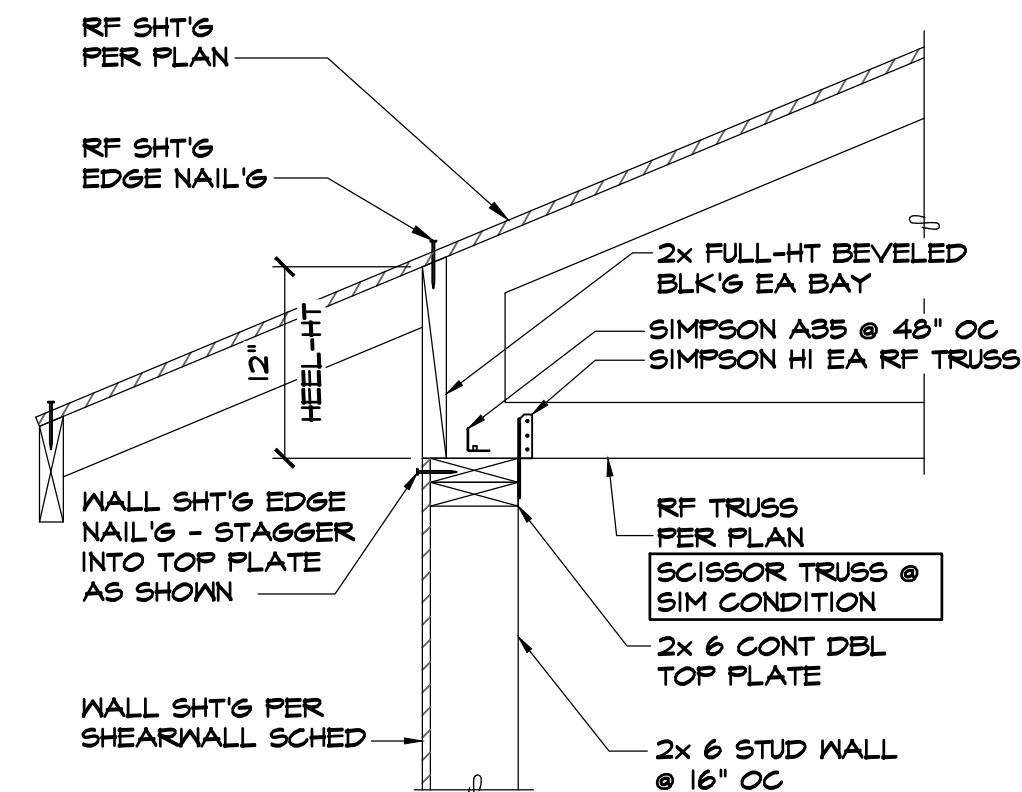
5 DETAIL
 SCALE: 3/4" = 1'-0"

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

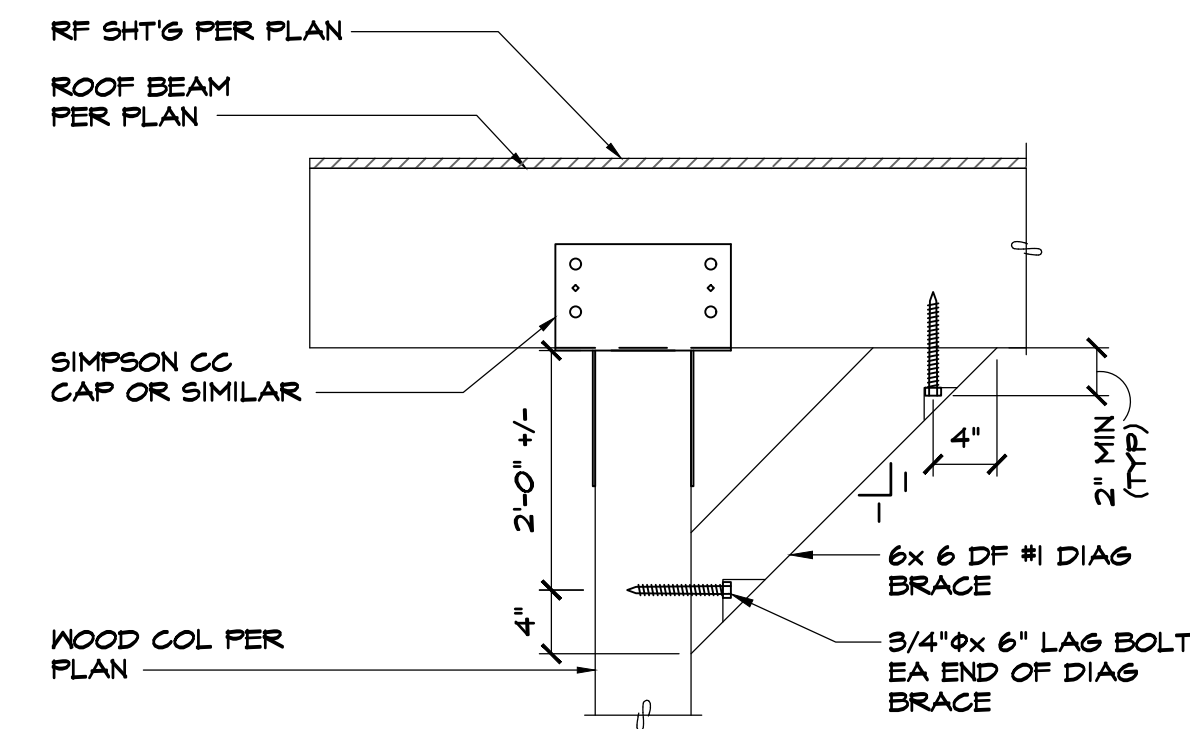
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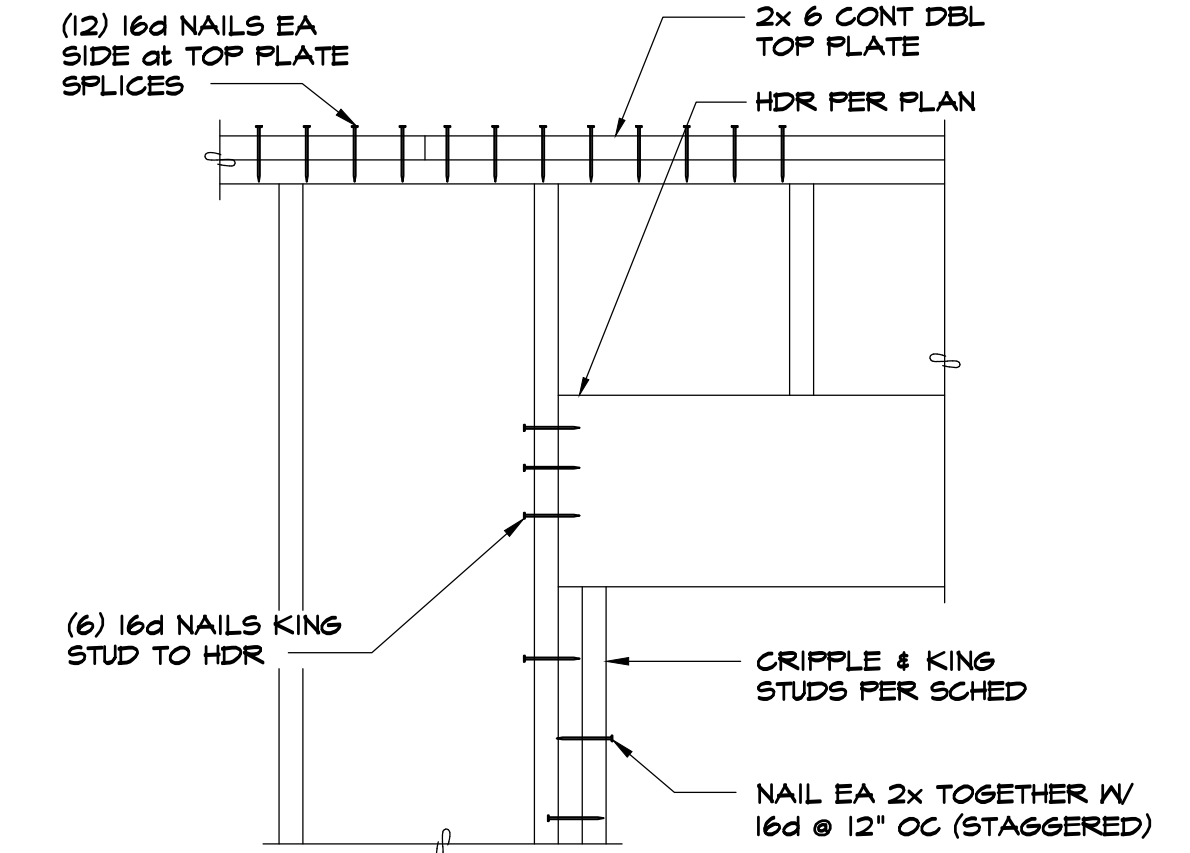
1 DETAIL
 SCALE: 1" = 1'-0"



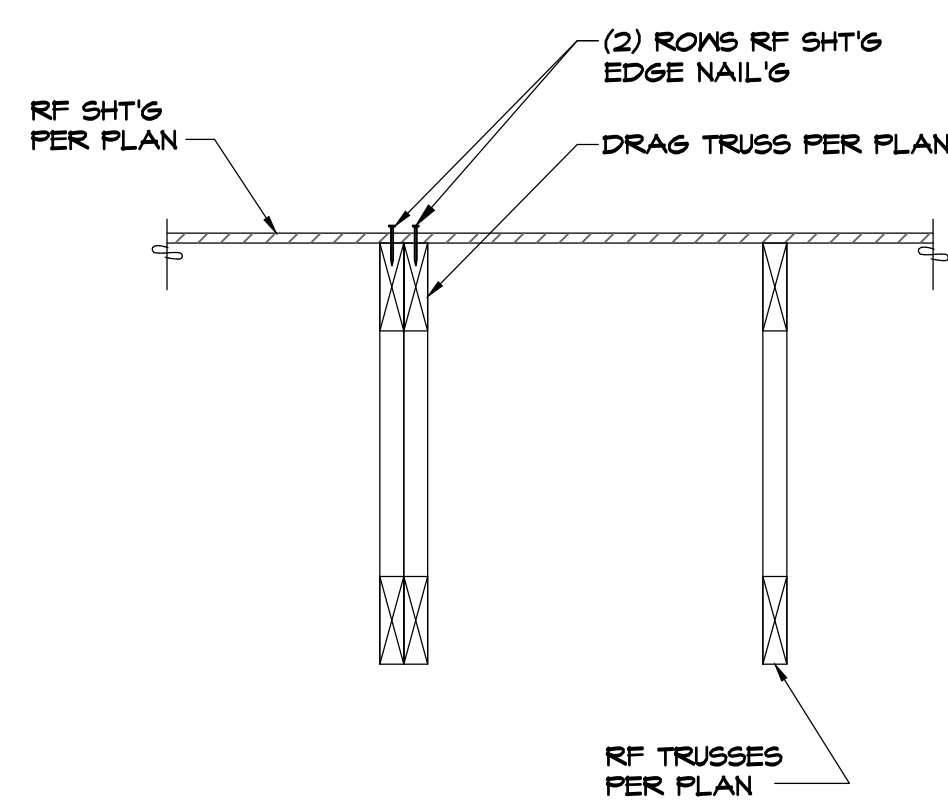
2 DETAIL
 SCALE: 1" = 1'-0"



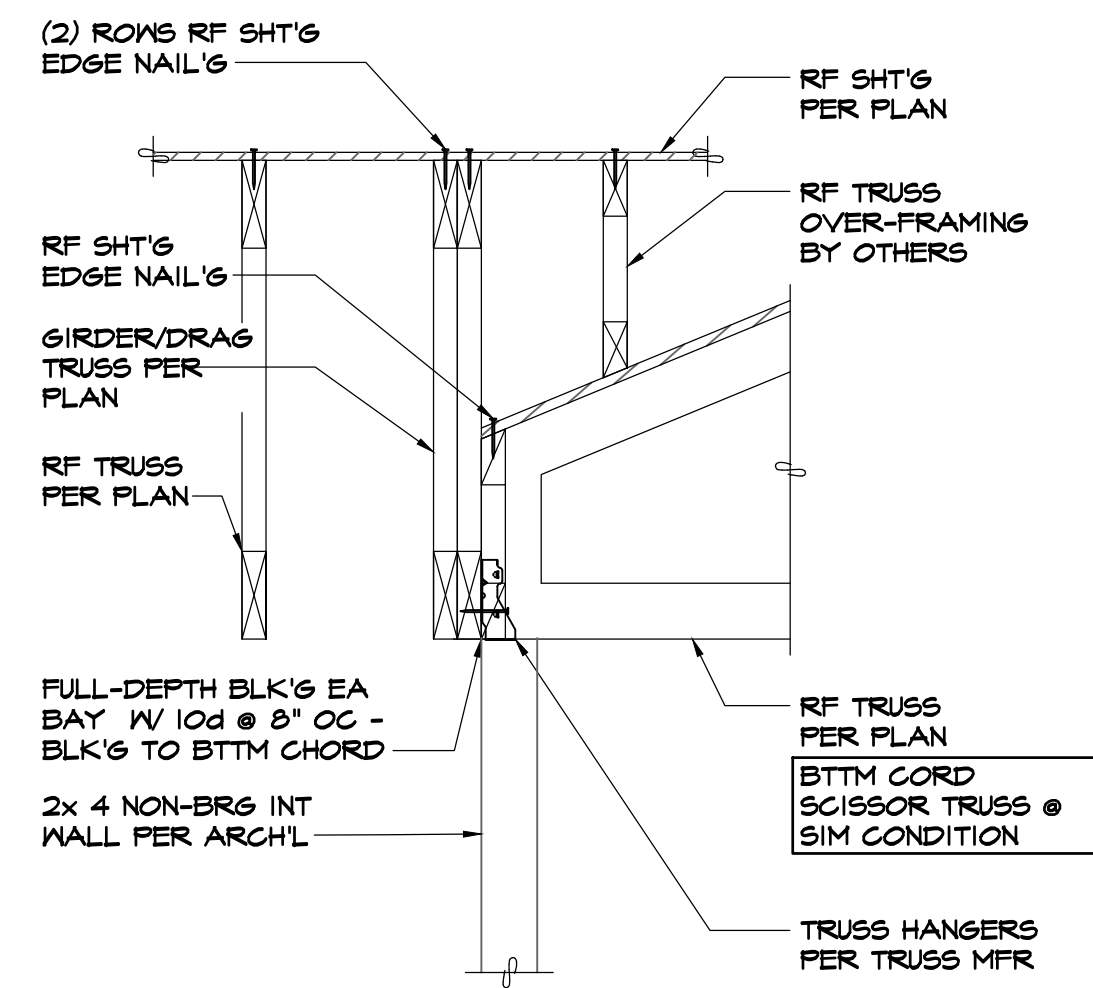
3 DETAIL
 SCALE: 1" = 1'-0"



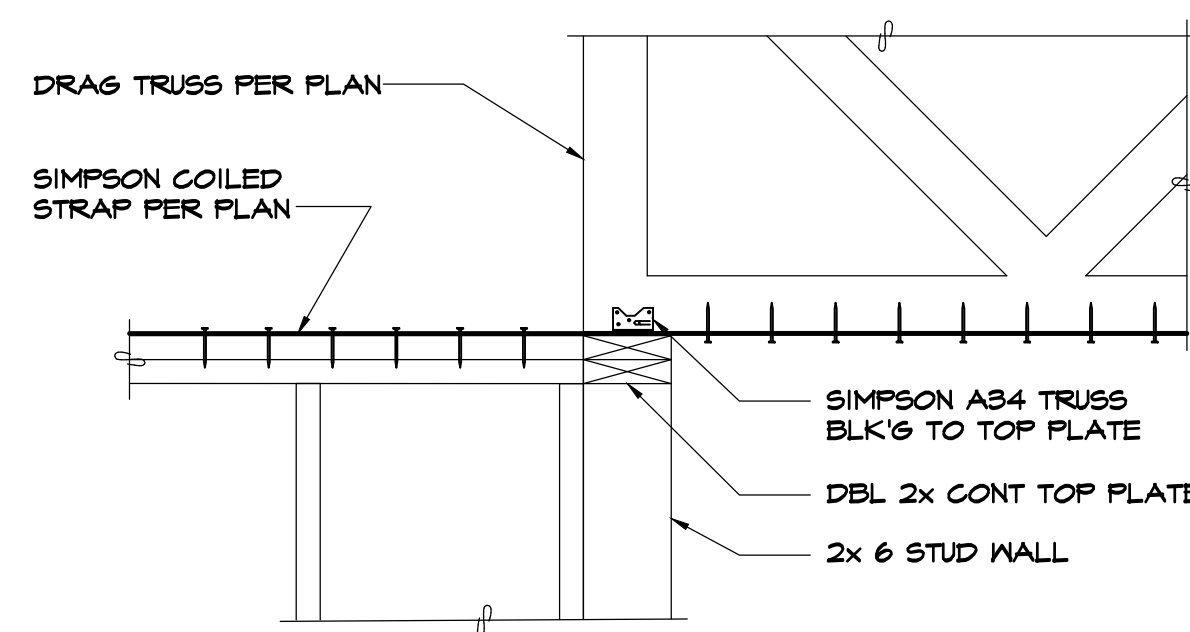
4 DETAIL
 SCALE: 1" = 1'-0"



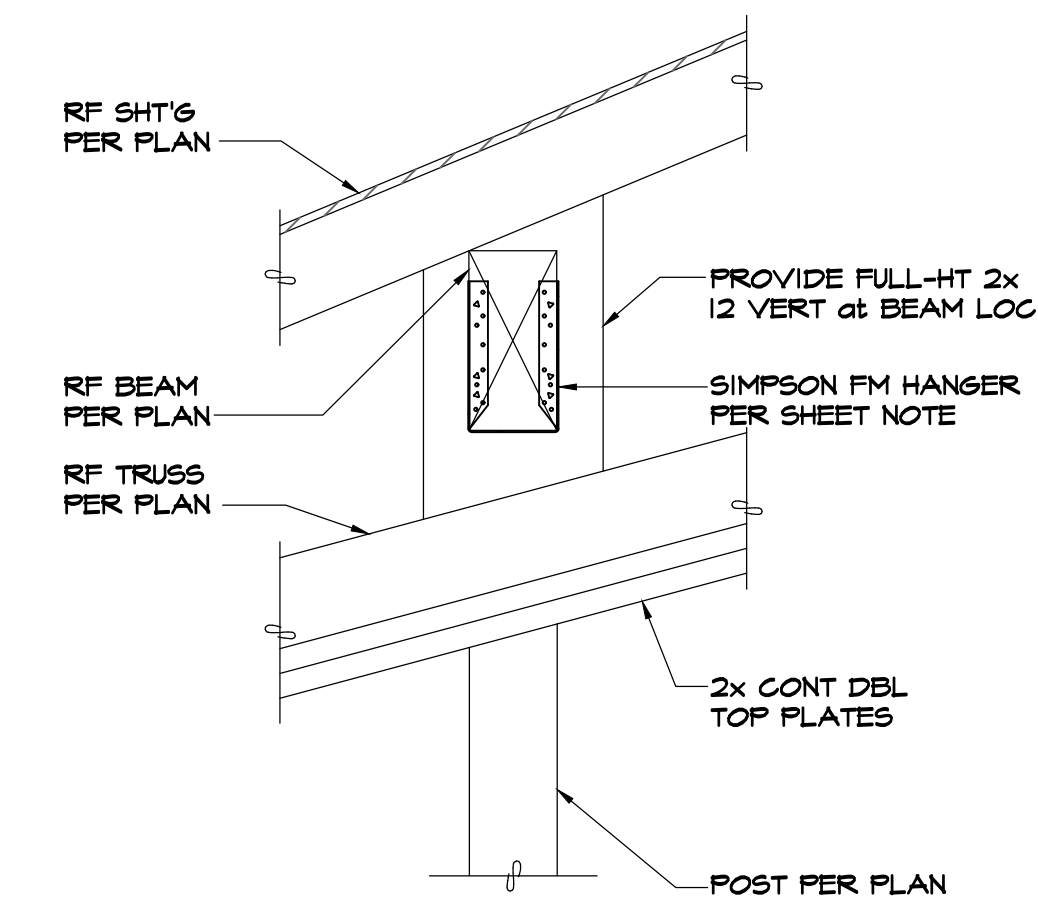
5 DETAIL
 SCALE: 1" = 1'-0"



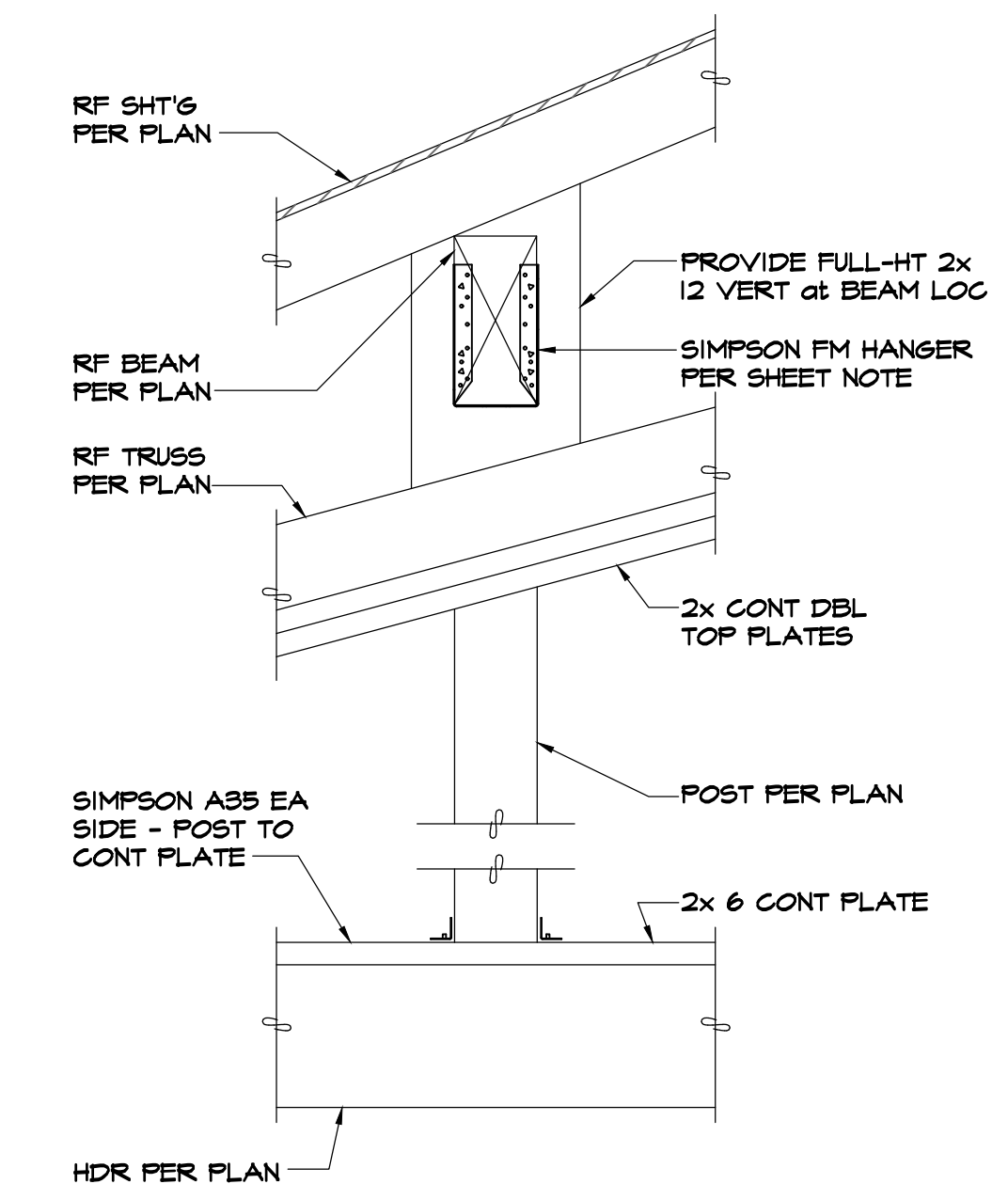
6 DETAIL
 SCALE: 1" = 1'-0"



7 DETAIL
 SCALE: 1" = 1'-0"

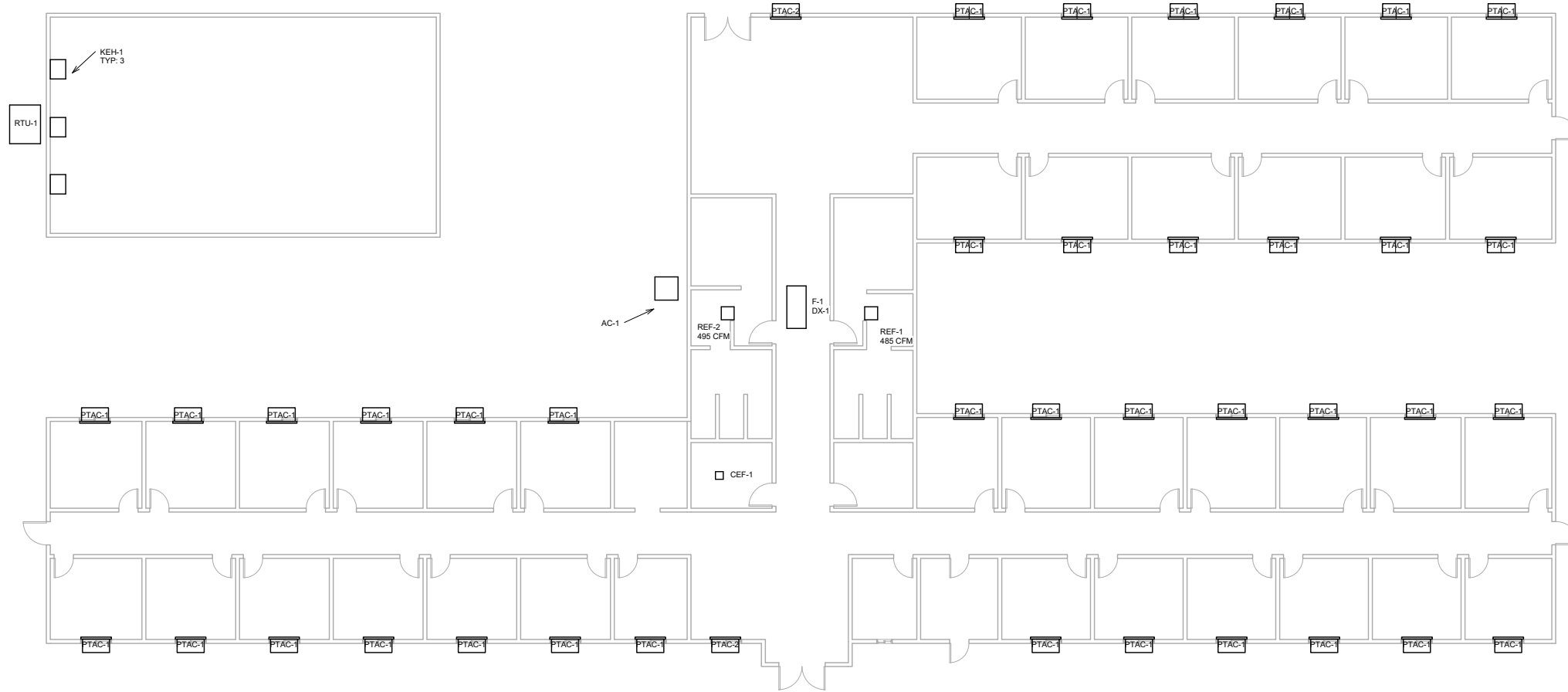


8 DETAIL
 SCALE: 1" = 1'-0"



9 DETAIL
 SCALE: 1" = 1'-0"

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① Bunk House
1/8" = 1'-0"

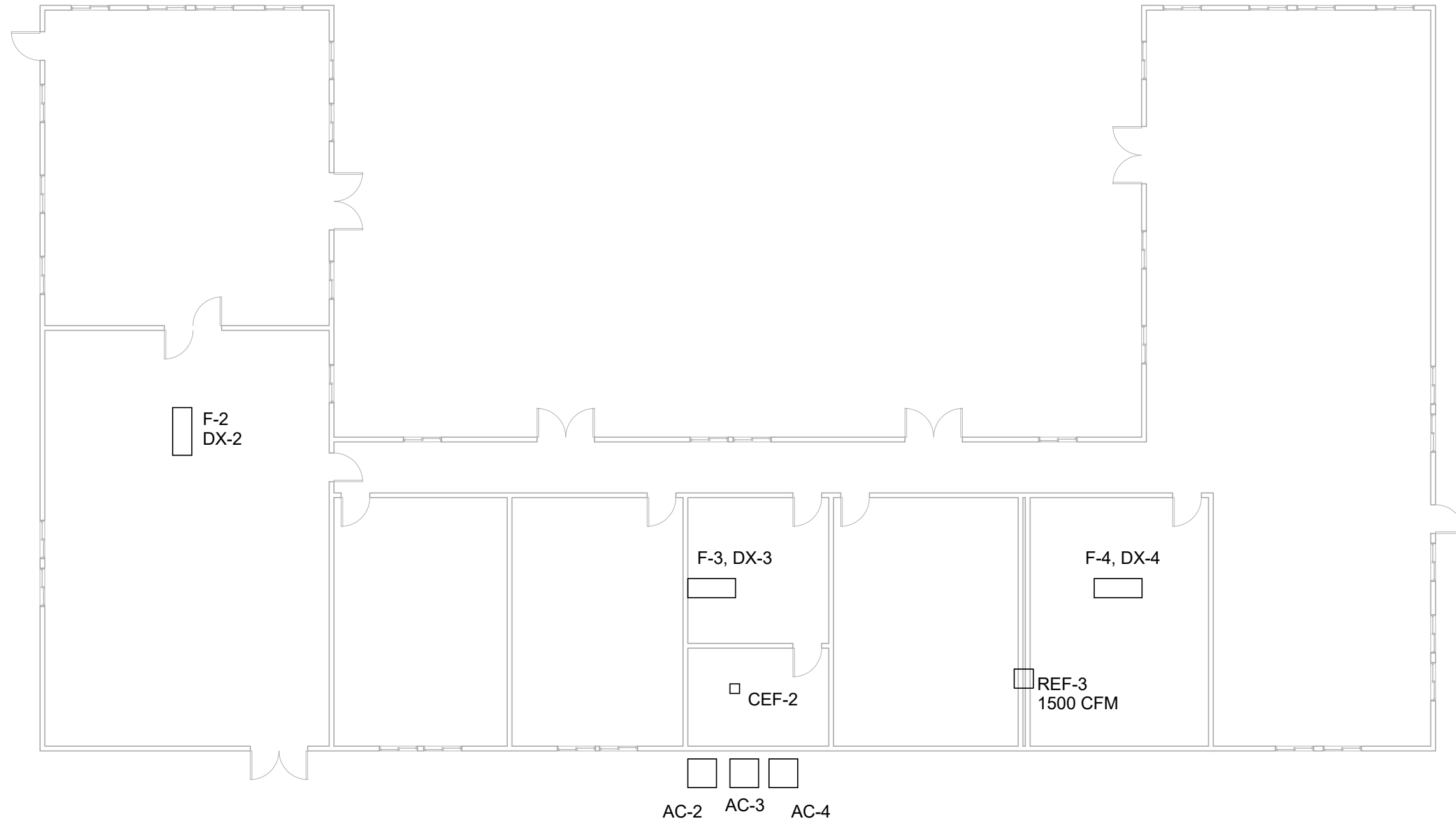
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Revisions:

ORG	Author	Date

Sheet: _____

Scale: _____



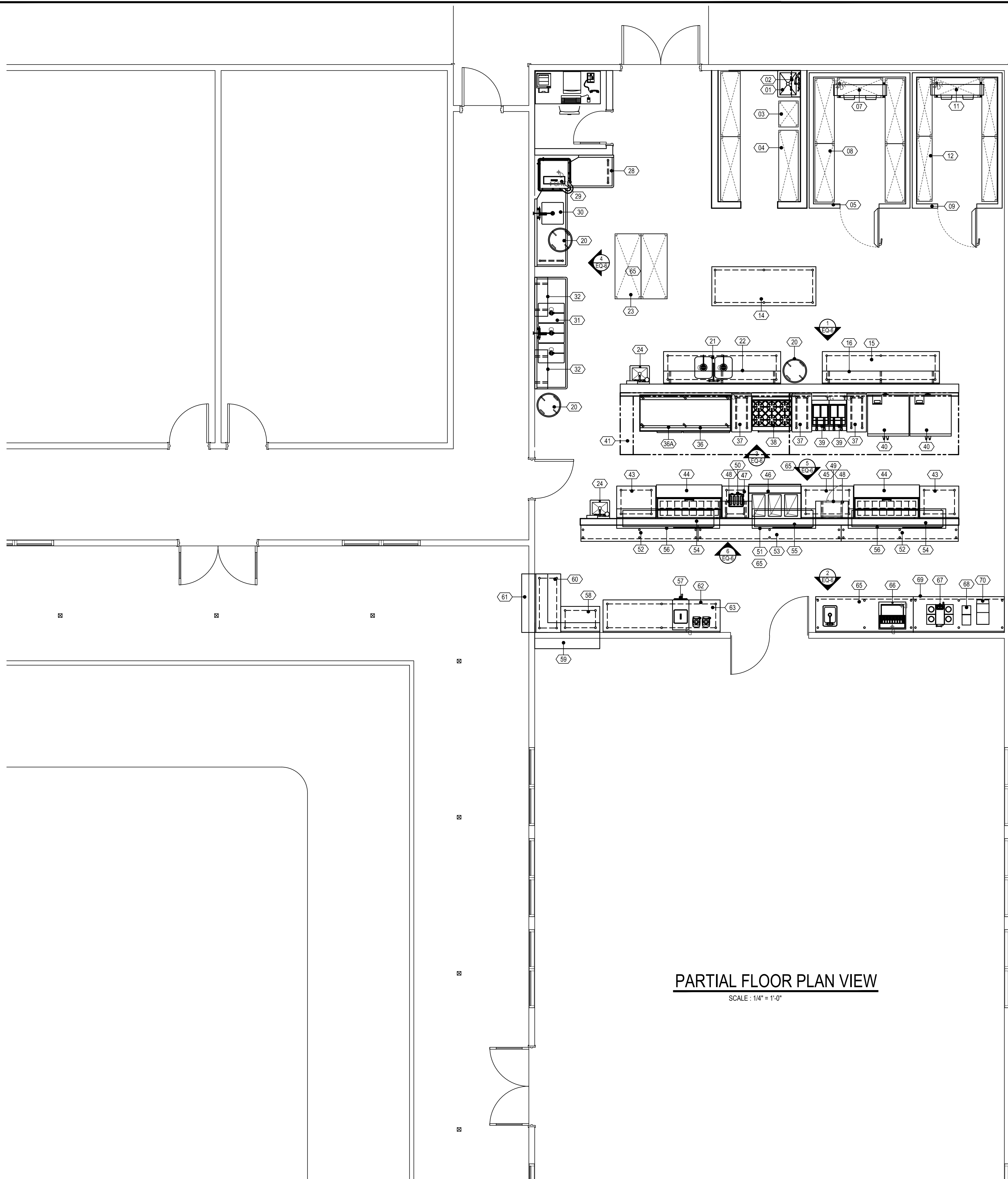
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Revisions:

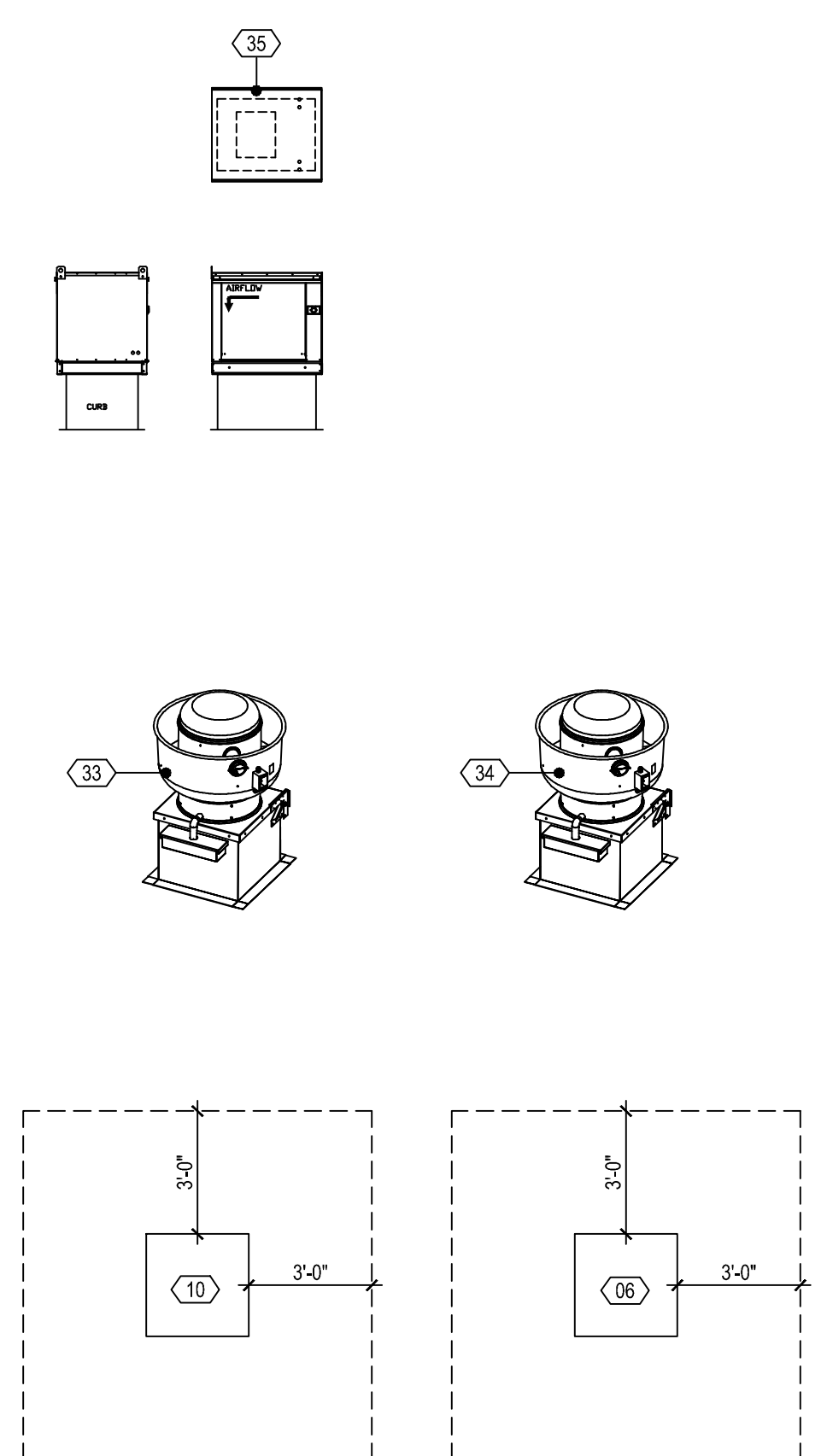
	Author	Date
ORG		

Sheet:

Scale:



PARTIAL FLOOR PLAN VIEW
SCALE: 1/4" = 1'-0"



SHEET INDEX

- 1- FLOOR PLAN
- 2- EQUIPMENT SCHEDULE
- 3- PLUMBING ROUGH-IN PLAN
- 4- ELECTRICAL ROUGH-IN PLAN
- 5- BACKING PLAN
- 6- ELEVATION PLAN

REVISIONS	BY

CURTIS
EST. 1988
RESTAURANT EQUIPMENT
EQUIPMENT - DESIGN - SUPPLIES
555 SHELLEY STREET
SPRINGFIELD, OR 97477
(541) 746-7480
(541) 746-7984 FAX

This design has been prepared for your approval and is not to be used for any other purpose. The contractor is responsible for the accuracy of the information provided and for the completion of the project. The contractor is responsible for the accuracy of the information provided and for the completion of the project. The contractor is responsible for the accuracy of the information provided and for the completion of the project.

PROJECT :
R-RANCH RESORT
HORN BROOK, CA.

FLOOR PLAN

DATE: 1-6-2020
SCALE: 1/4"=1'-0"
DRAWN BY: RKM
JOB No.: D2020-01
SHEET: EQ-1
OF 6

ABBREVIATIONS:

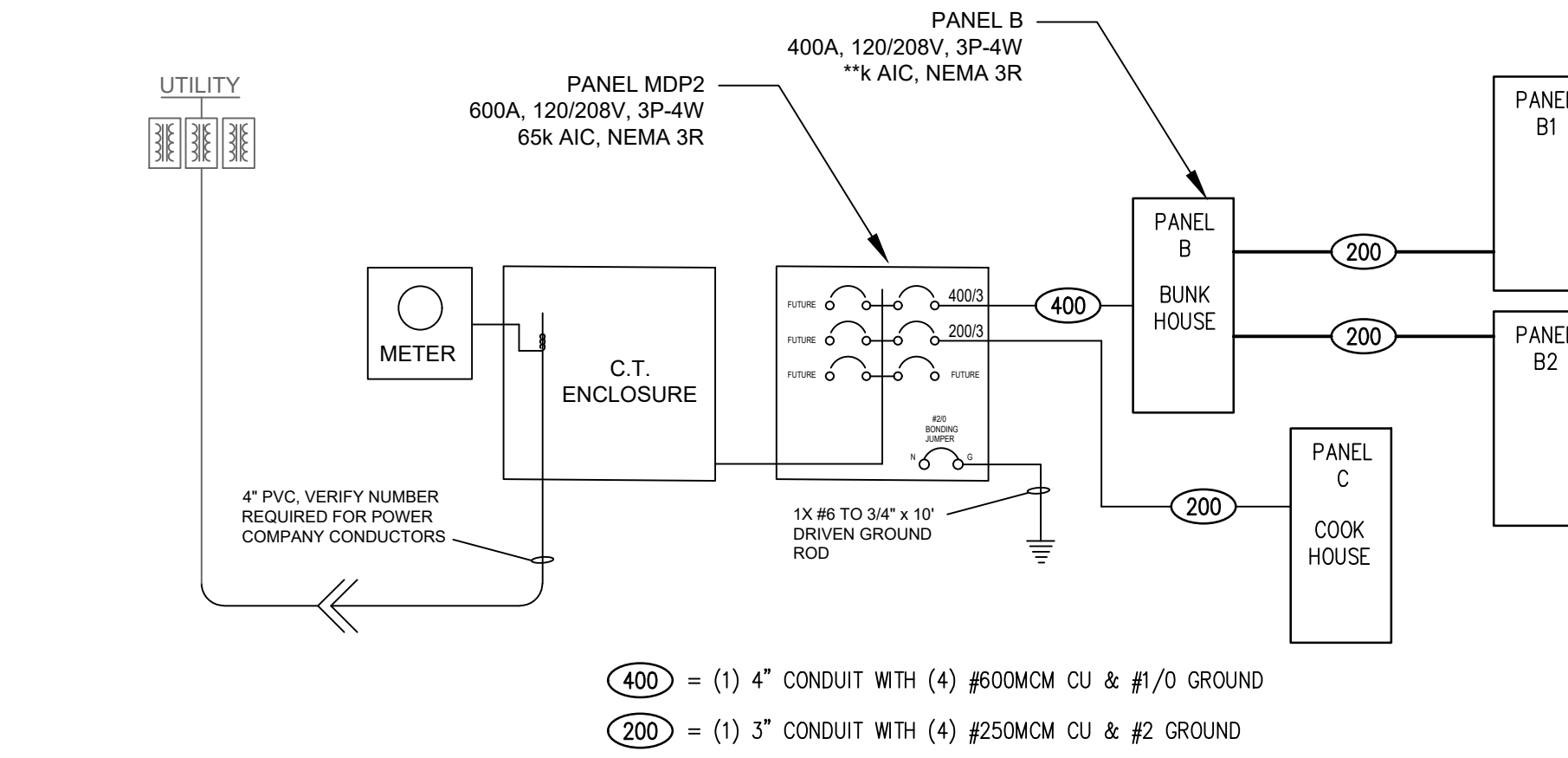
NEC	NATIONAL ELECTRICAL CODE
AFG	ABOVE FINISHED GRADE
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
WP	WEATHER PROOF
GFI	PROTECTED BY GROUND FAULT CIRCUIT INTERRUPTER
J-BOX	JUNCTION BOX
CU	COPPER
C.	CONDUIT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
CT	CURRENT TRANSFORMER
EMT	ELECTRICAL METALLIC TUBING
RMC	RIGID METALLIC CONDUIT
PVC	RIGID NONMETALLIC CONDUIT
CB	CIRCUIT BREAKER
V	VOLTS
A	AMPERES
W	WATTS
VA	VOLTAMPERES
HP	HORSEPOWER
NA	NOT APPLICABLE
(E)	EXISTING

GENERAL NOTES:

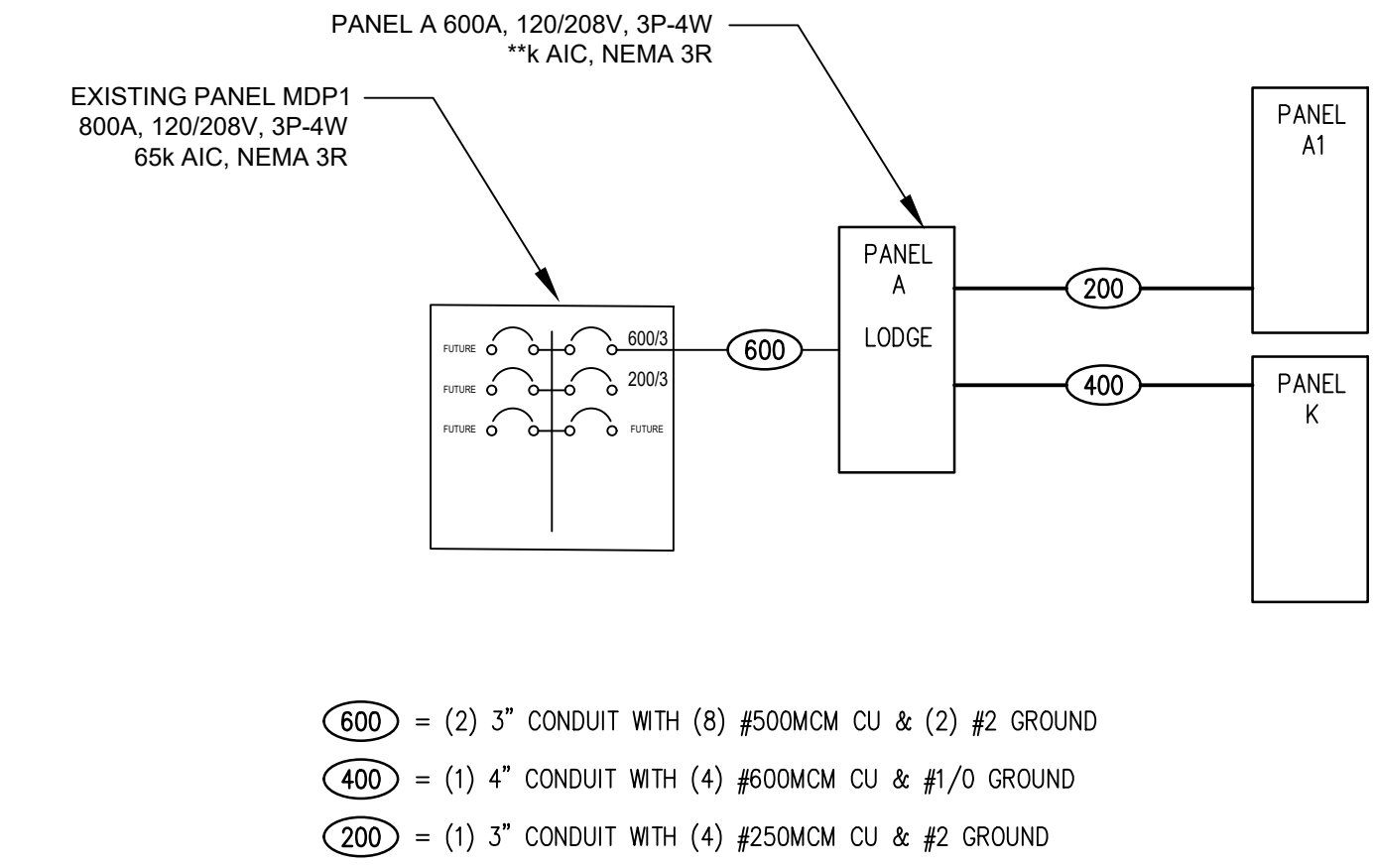
- A. SOME CIRCUITS ARE SHOWN AS SINGLE CIRCUIT HOME RUNS FOR CLARITY PURPOSES. CIRCUITS MAY BE COMBINED IN HOME RUNS AS APPROPRIATE AND AS ALLOWED BY CODE (MAX. THREE CIRCUITS PER CONDUIT). UNLESS OTHERWISE NOTED, CIRCUITS CONNECTED TO 20 AMP, SINGLE POLE CIRCUIT BREAKERS SHALL BE CONNECTED WITH TWO #12CU & ONE #12CU GROUND. MC CABLE IS AN APPROVED WIRING METHOD FOR THIS PROJECT WHERE ALLOWABLE BY CODE.
- B. COORDINATE ELECTRICAL DEVICE MOUNTING AND LOCATION WITH FURNITURE SUPPLIER PRIOR TO ROUGH-IN.
- C. PROVIDE LARGE RADIUS STEEL ELBOWS FOR ALL LOW VOLTAGE UNDERGROUND CONDUIT BENDS AND SWEEPS.

SYMBOLS:

	SINGLE RECEPTACLE, NEMA 14-30R UON
	DUPLEX RECEPTACLE, NEMA 5-20R
	TWO DUPLEX RECEPTACLE IN 2-GANG BOX, NEMA 5-20R
	JUNCTION BOX
	VERIFY CONNECTION WITH MANUFACTURER'S RECOMMENDATIONS
	ELECTRICAL POWER PANELBOARD
	LUMINAIRE WITH TYPE TAG (SYMBOL VARIES WITH TYPE - SEE SCHEDULE)
	SINGLE POLE, SINGLE THROW SWITCH
	WALL SWITCH STYLE PASSIVE INFRARED OCCUPANCY SENSOR, ACUITY #WSX
	CORNER MOUNT PASSIVE INFRARED OCCUPANCY SENSOR, ACUITY #HRW13
	WALL MOUNT DUAL TECHNOLOGY OCCUPANCY SENSOR, ACUITY #CM PDT 10
	FUSED DISCONNECT SWITCH
	NONFUSIBLE DISCONNECT SWITCH
	MECHANICAL EQUIPMENT CONNECTION TAG
	EXIT SIGNAGE. SHADED FACE INDICATES SIDE WITH 'EXIT' STENCILED FACE. ARROW INDICATES DIRECTION THAT CHEVRONS POINT. SEE LUMINAIRE SCHEDULE.
	RACEWAY CONCEALED IN WALL OR ABOVE CEILING SPACE UON
	RACEWAY ROUTED UNDER FLOOR OR GRADE
	BRANCH CIRCUIT WIRING. ARROWHEAD INDICATES HOME-RUN TO OVERCURRENT PROTECTION DEVICE (TEXT AT ARROWHEAD IDENTIFIES DEVICE). SHORT MARK INDICATES PHASE CONDUCTOR. LONG MARK WITHOUT TAIL INDICATES NEUTRAL CONDUCTOR. LONG MARK WITH TAIL INDICATES GROUNDING CONDUCTOR.



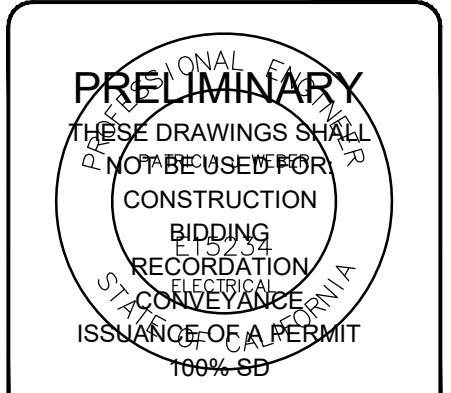
1 BUNK + COOK HOUSES ELECTRICAL DISTRIBUTION DIAGRAM
SCALE: NONE



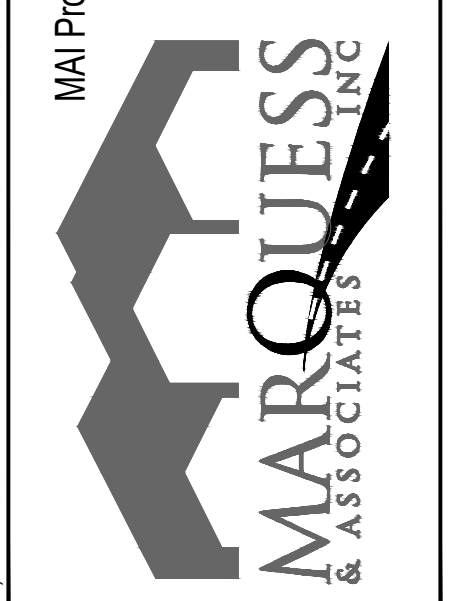
2 LODGE ELECTRICAL DISTRIBUTION DIAGRAM
SCALE: NONE

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

PERMIT REVIEW
KLAMATHON FIRE RE-BUILD



MAI Project Number: 19-1052
P: 541-772-7115
F: 541-779-4079
1120 East Jackson
PO Box 490
Medford, OR, 97501

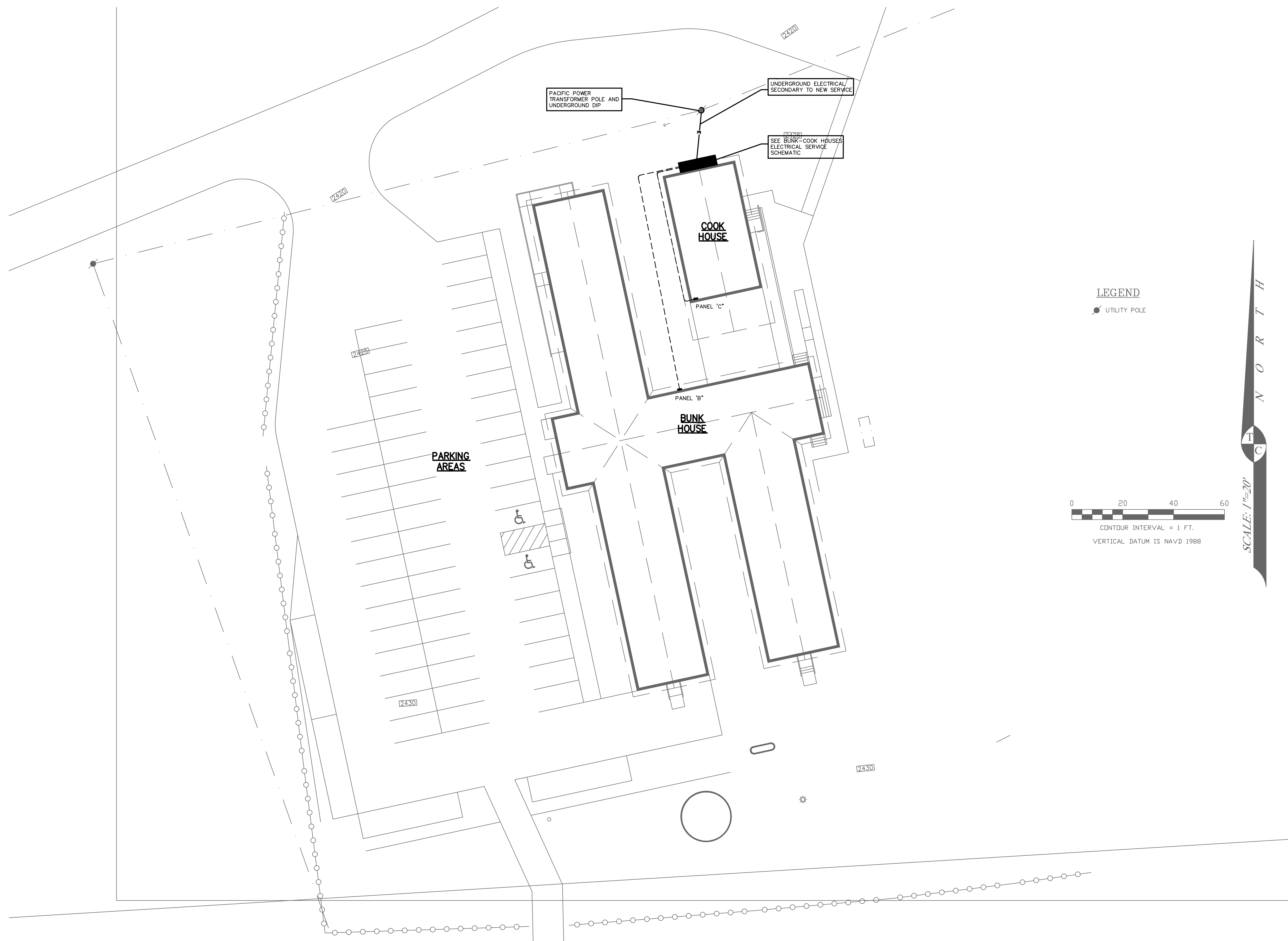


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Approved for the Owner By:	Date:
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PLOT DATE:	1/5/20
ISSUE DATE:	01/06/20
DRAWN BY:	PJW
JOB NO.:	
SHEET	ELECTRICAL LEGEND, NOTES, DETAILS, RISER, & SCHEDULES
E-001	

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PACIFIC POWER
TRANSFORMER POLE AND
UNDERGROUND DIP

UNDERGROUND ELECTRICAL
SECONDARY TO NEW SERVICE

SEE BUNK-COOK HOUSES
ELECTRICAL SERVICE
SCHEMATIC

COOK
HOUSE

PANEL 'C'

PANEL 'B'

BUNK
HOUSE

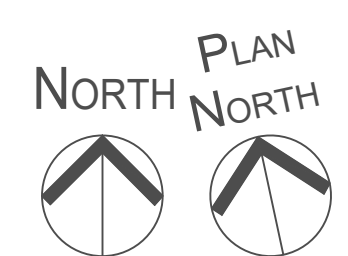
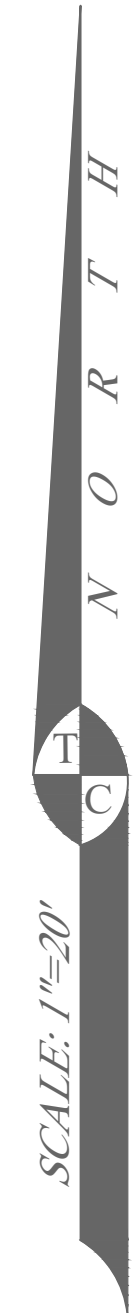
PARKING
AREAS

LEGEND

UTILITY POLE



CONTOUR INTERVAL = 1 FT.
VERTICAL DATUM IS NAVD 1988



B

ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

PRELIMINARY
THESE DRAWINGS SHALL
NOT BE USED FOR
CONSTRUCTION
BIDDING
RECORDATION
CONVEYANCES
OR ISSUANCE OF A PERMIT
1994-88

MAI Project Number: 19-1052
P: 541-772-7115
F: 541-779-4079
1120 East Jackson
PO Box 490
Medford, OR, 97501



OREGON ARCHITECTURE
132 W. Main Street, Suite 101
Medford, Oregon 97501
PH. 541 772-4372 | OREGONARCHITECTURE.BIZ

R-RANCH
PROJECT DESCRIPTION:
PROJECT LOCATION:
225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

Approved for the Owner By:	Date:
REVISIONS	BY
PLOT DATE:	1/5/20
ISSUE DATE:	01/06/20
DRAWN BY:	PJW
JOB NO.:	
SHEET	
ELECTRICAL SITE PLAN - BUNK HOUSE / COOK HOUSE	

PERMIT REVIEW
KLAMATHON FIRE RE-BUILD

E-101b

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North PLAN NORTH **1** BUNK & COOK HOUSE LIGHTING PLANS
 SCALE: 1/8" = 1'-0"

TO VERIFY SCALES BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

R-RANCH
 PROJECT LOCATION:
 225 DITCH CREEK ROAD, HORN BROOK, CA 96044
 PARCEL

Approved for the Owner By: _____ Date: _____

REVISIONS	BY

PLOT DATE: 1/5/20
 ISSUE DATE: 01/06/20
 DRAWN BY: PJW
 JOB NO.:
 SHEET LIGHTING PLAN - BUNK HOUSE / COOK HOUSE

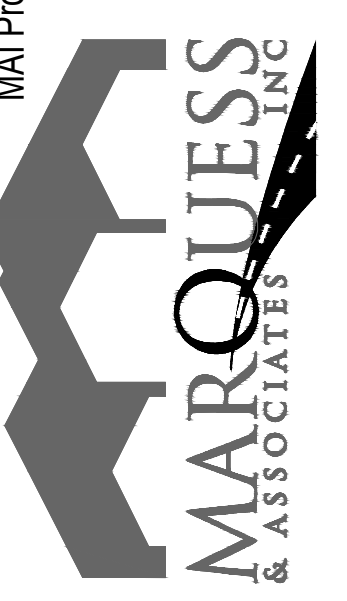
E-201b

PERMIT REVIEW
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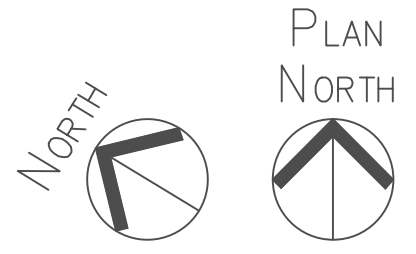
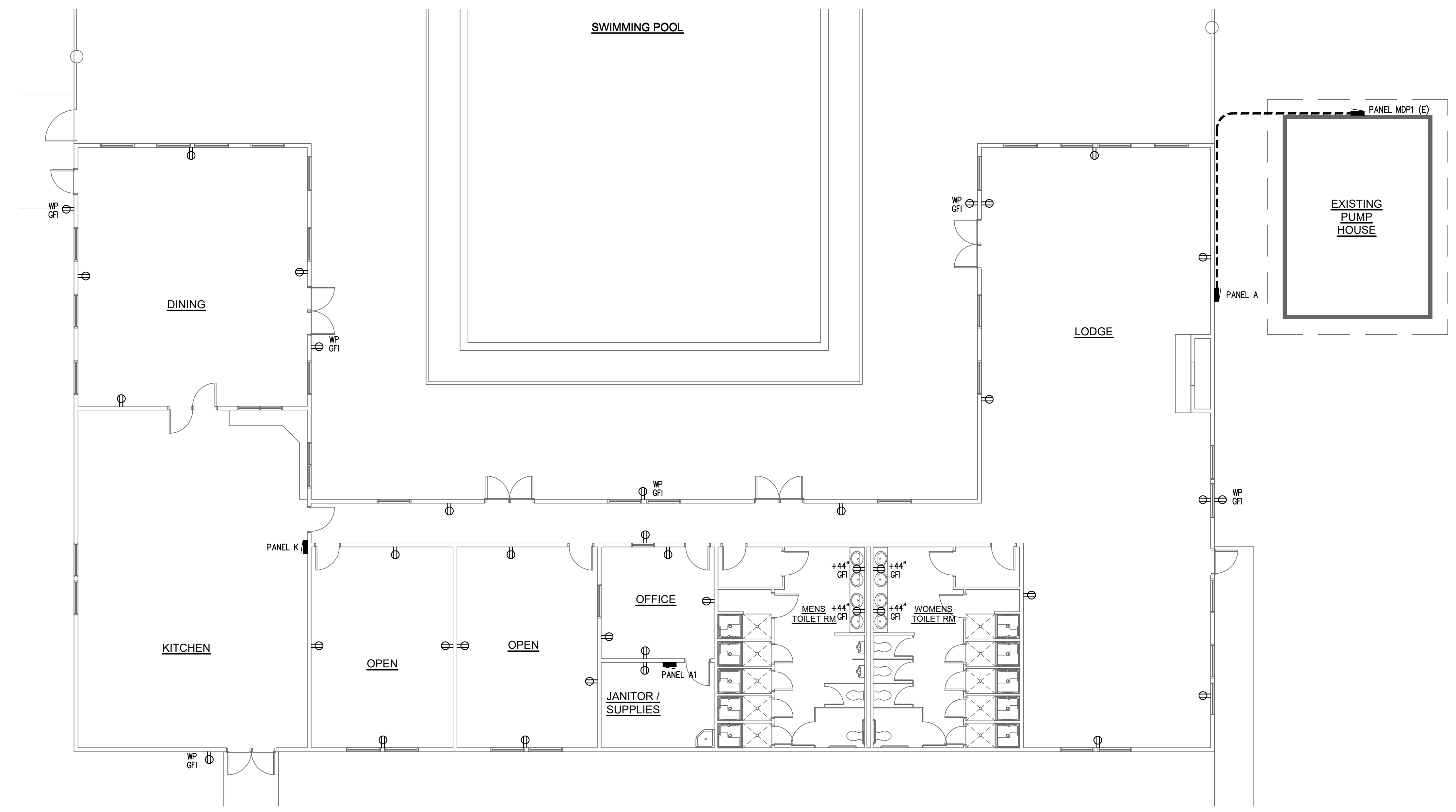
R-RANCH
 PROJECT LOCATION:
 225 DITCH CREEK ROAD, HORN BROOK, CA 96044
 PARCEL:

Approved for the Owner By: _____ Date: _____

REVISIONS	BY

PLOT DATE: 1/5/20
 ISSUE DATE: 01/06/20
 DRAWN BY: PJJ
 JOB NO.:
 SHEET

POWER & SIGNAL
 PLANS - LODGE
E-301a

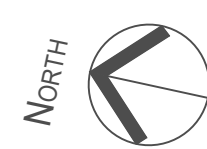
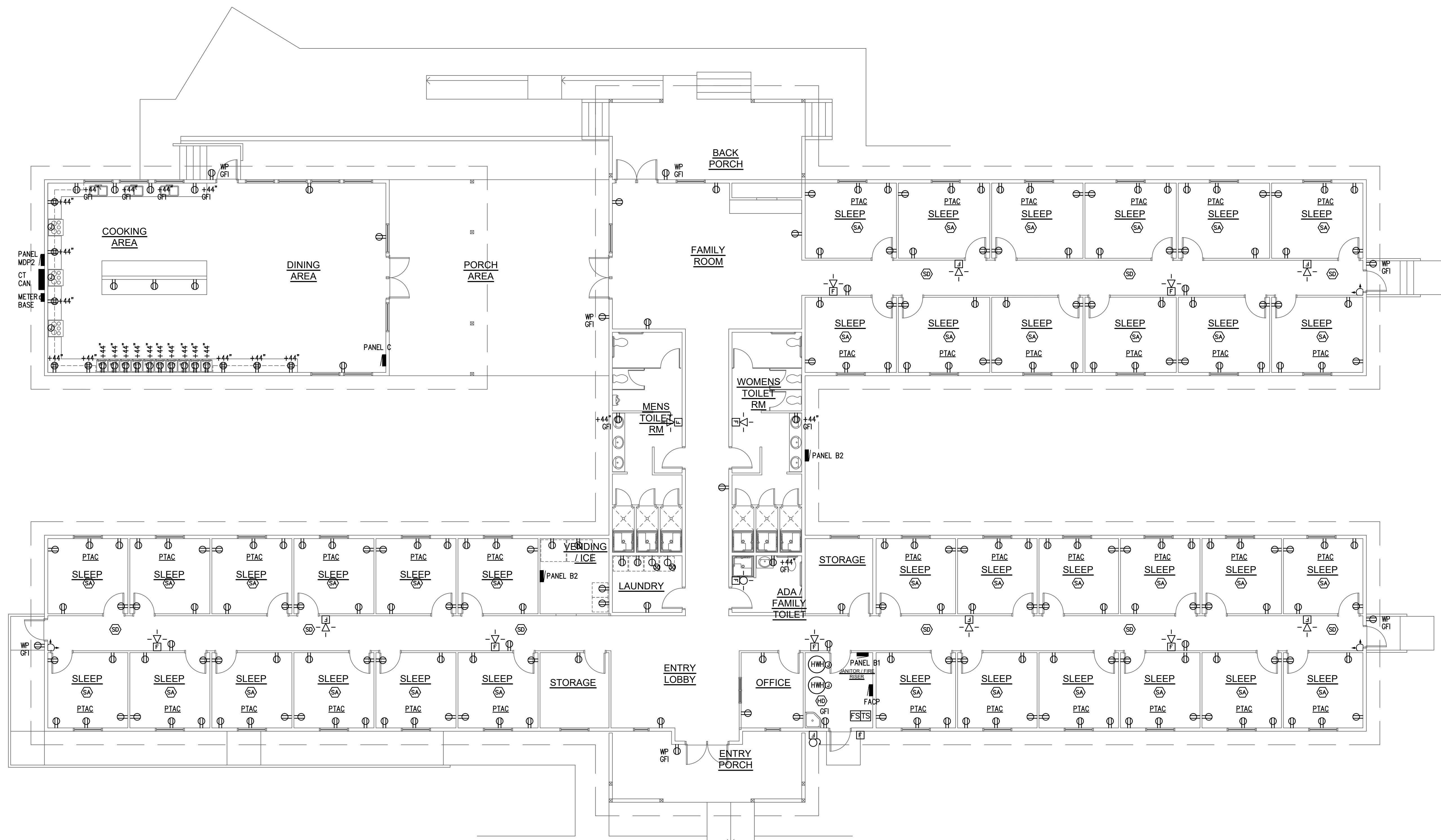


1 LODGE POWER & SIGNAL PLAN
 SCALE: 1/8" = 1'-0"

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH

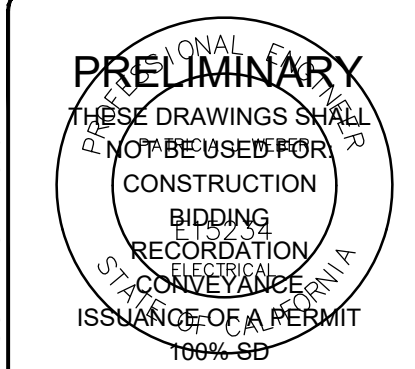
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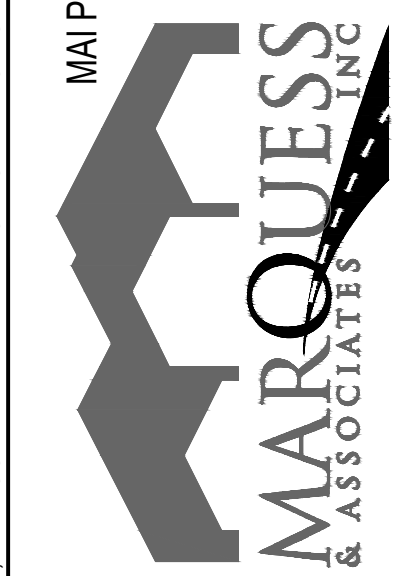


1 BUNK & COOK HOUSE POWER & SIGNAL PLANS
SCALE: 1/8" = 1'-0"

TO VERIFY SCALES 0" 1" BAR SHOULD MEASURE ONE INCH BY ONE SIXTEENTH INCH



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225 DITCH CREEK ROAD, HORN BROOK, CA 96044
PARCEL:

REVISIONS	BY

Approved for the Owner By: _____ Date: _____

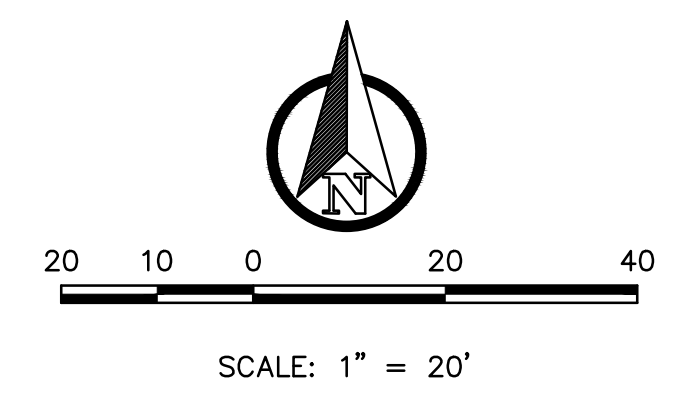
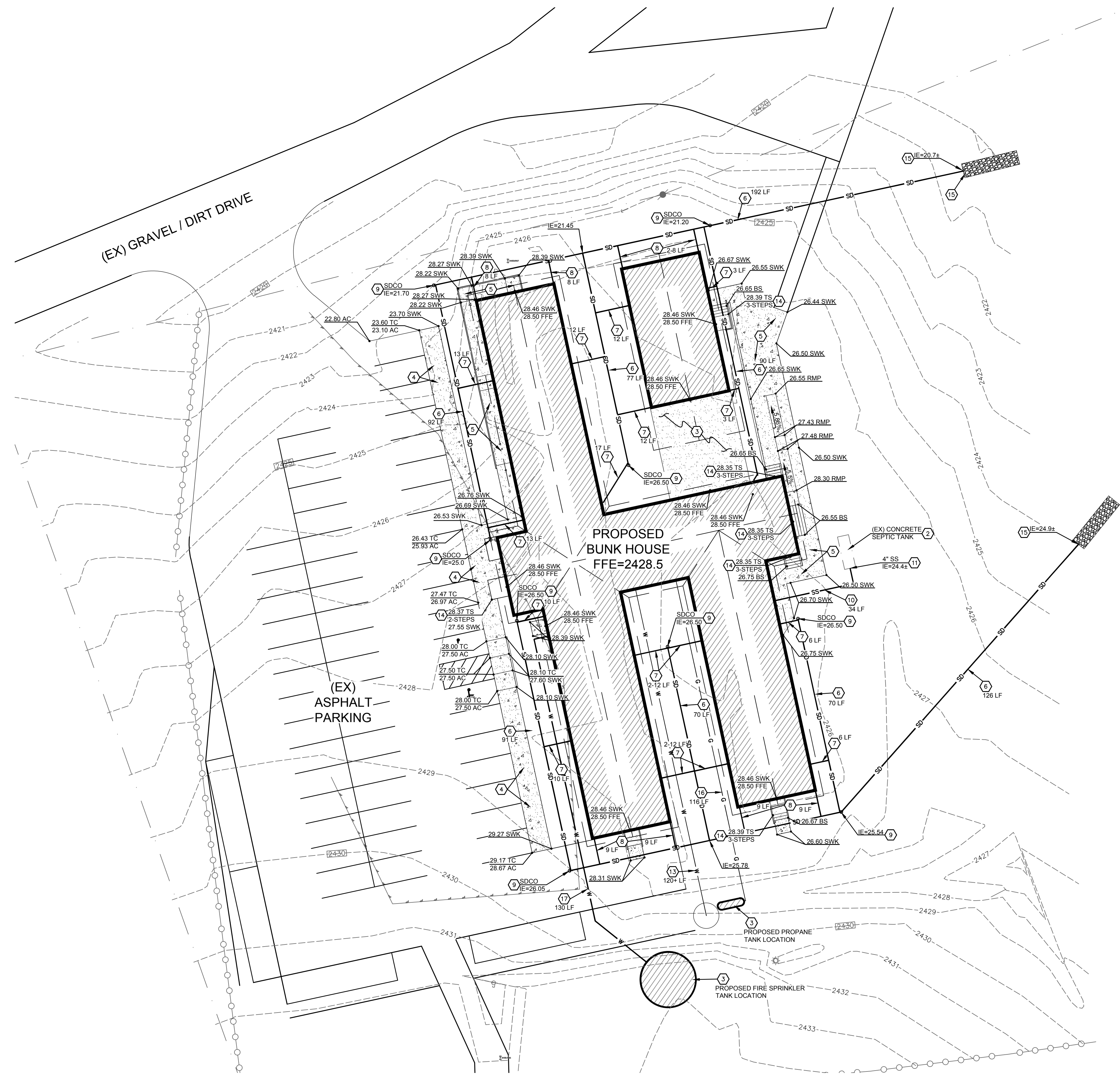
PLOT DATE: 1/5/20
ISSUE DATE: 01/06/20
DRAWN BY: FJW
JOB NO.: _____

SHEET
POWER & SIGNAL PLANS -
BUNK HOUSE / COOK HOUSE

E-301b

PERMIT REVIEW
KLAMATHON FIRE RE-BUILD

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CONSTRUCTION NOTES:

- 1 *CAUTION* UTILITY CROSSING. CONTRACTOR TO VERIFY LOCATION AND ELEVATION PRIOR TO CONSTRUCTION. NOTIFY ENGINEER IF CONFLICT EXISTS.
- 2 PROTECT ITEM IN PLACE, AS NOTED.
- 3 REFER TO ARCHITECTURAL PLANS FOR DETAILS AS NOTED.
- 4 CONSTRUCT CONCRETE MONOLITHIC CURB & SIDEWALK, PER DETAIL 2, SHEET C2.
- 5 CONSTRUCT STANDARD CONCRETE SIDEWALK, WIDTH PER PLAN. PER DETAIL 3, SHEET C2.
- 6 CONSTRUCT 4" STORM DRAIN LINE, SLOPE @ 0.5% (MIN.) TRENCH PER DETAIL 1, SHEET C2.
- 7 CONSTRUCT 4" ROOF DRAIN LINE, CONNECT TO 4" STORM DRAIN LINE.
- 8 CONSTRUCT 4" FOOTING DRAIN LINE. CONNECT TO 4" STORM DRAIN LINE.
- 9 CONSTRUCT STANDARD UTILITY CLEAN-OUT. PER DETAIL 4 SHEET C2.
- 10 CONSTRUCT 4" SANITARY SEWER LINE, SLOPE AT 2% (MIN.) TRENCH PER DETAIL 1 SHEET C2. CONNECT TO BUILDING PER PLUMBING PLAN AND CURRENT BUILDING CODE.
- 11 CONNECT NEW 4" SANITARY SEWER LINE TO DRAIN FIELD STRUCTURE AT EXISTING PIPE LOCATION. GROUT FOR WATER TIGHT SEAL.
- 12 CONSTRUCT 6" STORM DRAIN LINE, SLOPE @ 1.0% (MIN.) TO DAYLIGHT IN DRAINAGE. TRENCH PER DETAIL 1, SHEET C2.
- 13 CONSTRUCT 1" DOMESTIC WATERLINE. CONNECT TO EXISTING WATER SUPPLY. CONNECT TO BUILDING PER PLUMBING PLAN AND CURRENT PLUMBING CODE.
- 14 CONSTRUCT STAIRS PER DETAIL 5, SHEET C2.
- 15 CONSTRUCT 20'X5'X12" RIVER ROCK ENERGY DISSIPATOR.
- 16 CONSTRUCT GAS LINE. CONNECT TO PROPOSED TANK, CONNECT TO BUILDING PER PLUMBING PLAN AND CURRENT PLUMBING CODE.
- 17 CONSTRUCT FIRE SERVICE LINE. CONNECT TO PROPOSED WATER TANK, CONNECT TO BUILDING PER PLUMBING PLAN AND CURRENT PLUMBING CODE.

GENERAL NOTES

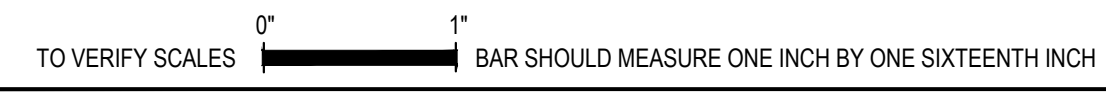
1. PRIVATE WORK AND MATERIALS SHALL CONFORM TO THE 2018 CALTRANS STANDARDS AND SPECS FOR PUBLIC WORKS CONSTRUCTION UNLESS OTHERWISE COVERED BY THE CALIFORNIA SPECIALTY PLUMBING CODE OR THE SPECIFICATIONS WRITTEN FOR THIS PROJECT.
2. ALL CONCRETE SHALL BE 3300 PSI AT 28 DAYS UNLESS OTHERWISE SPECIFIED.
3. ALL REFERENCE TO ENGINEER MEANS: MARQUESS & ASSOCIATES, INC., CONSULTING ENGINEERS, 1120 EAST JACKSON STREET, P.O. BOX 490, MEDFORD OREGON 97501, TELEPHONE (541) 772-7115.
4. APPROVED PLANS AND SPECIFICATIONS SHALL BE AVAILABLE AT SITE OF CONSTRUCTION AT ALL TIME DURING CONSTRUCTION.
5. PRIOR TO DIGGING, CONTRACTOR SHALL NOTIFY USA NORTH UTILITY NOTIFICATION CENTER AT 1-800-642-2444.
6. EVERY REASONABLE EFFORT HAS BEEN MADE TO LOCATE THE EXISTING UTILITIES ON THE PLANS, BUT NO GUARANTEE IS MADE AS TO THE COMPLETENESS OR ACCURACY OF THESE LOCATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT THESE AND OTHER EXISTING UTILITIES AND STRUCTURES IN THE FIELD. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO ANY TRENCHING ACTIVITIES.
7. THE CONTRACTOR SHALL NOT PERFORM WORK WITHOUT AGENCY INSPECTIONS WHERE INSPECTIONS ARE REQUIRED BY THE SPECIFICATIONS.
8. REQUESTS BY THE CONTRACTOR FOR CHANGES TO THE PLANS MUST BE APPROVED BY THE CONSULTING ENGINEER AND THE AGENCY'S ENGINEER BEFORE CHANGES ARE IMPLEMENTED.

ABBREVIATIONS - NEW CONSTRUCTION

AC ASPHALT	AD AREA DRAIN
CB CATCH BASIN	SS SANITARY SEWER
EX EXISTING	CO CLEAN OUT
TOG TOP OF GRATE	TC TOP OF CURB
FS FINISH SURFACE	FL FLOW LINE
IE INVERT ELEVATION	GD GROUND
CCT CONCRETE SURFACE	RMP RAMP
TS TOP STEP	BS BOTTOM STEP
TBC TOP BACK OF CURB	FFE FINISH FLOOR ELEVATION
SWK CONCRETE SIDEWALK	(EX) EXISTING FEATURE
SV SURVEY MONUMENT	(0.00) EXISTING GRADE
(P) PROPOSED FEATURE	(REC) RECORD INFORMATION

NOTE: ADD 2200.00 TO GRADES TO MATCH DESIGN ELEVATIONS

CALL BEFORE YOU DIG
 1-800-642-2444
 48 HOURS BEFORE BEGINNING EXCAVATION
 USA NORTH 811



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 P: 541-772-7115
 F: 541-779-4079
 1120 East Jackson
 PO Box 490
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R-RANCH
 PROJECT LOCATION:
 225 DITCH CREEK ROAD, HORN BROOK, CA 90044
 PARCEL:

Approved for the Owner By: _____ Date: _____

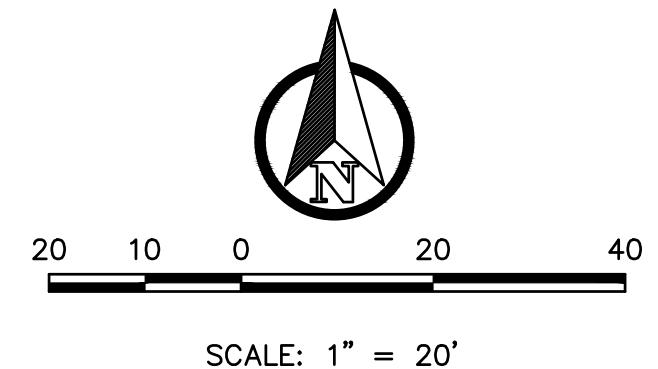
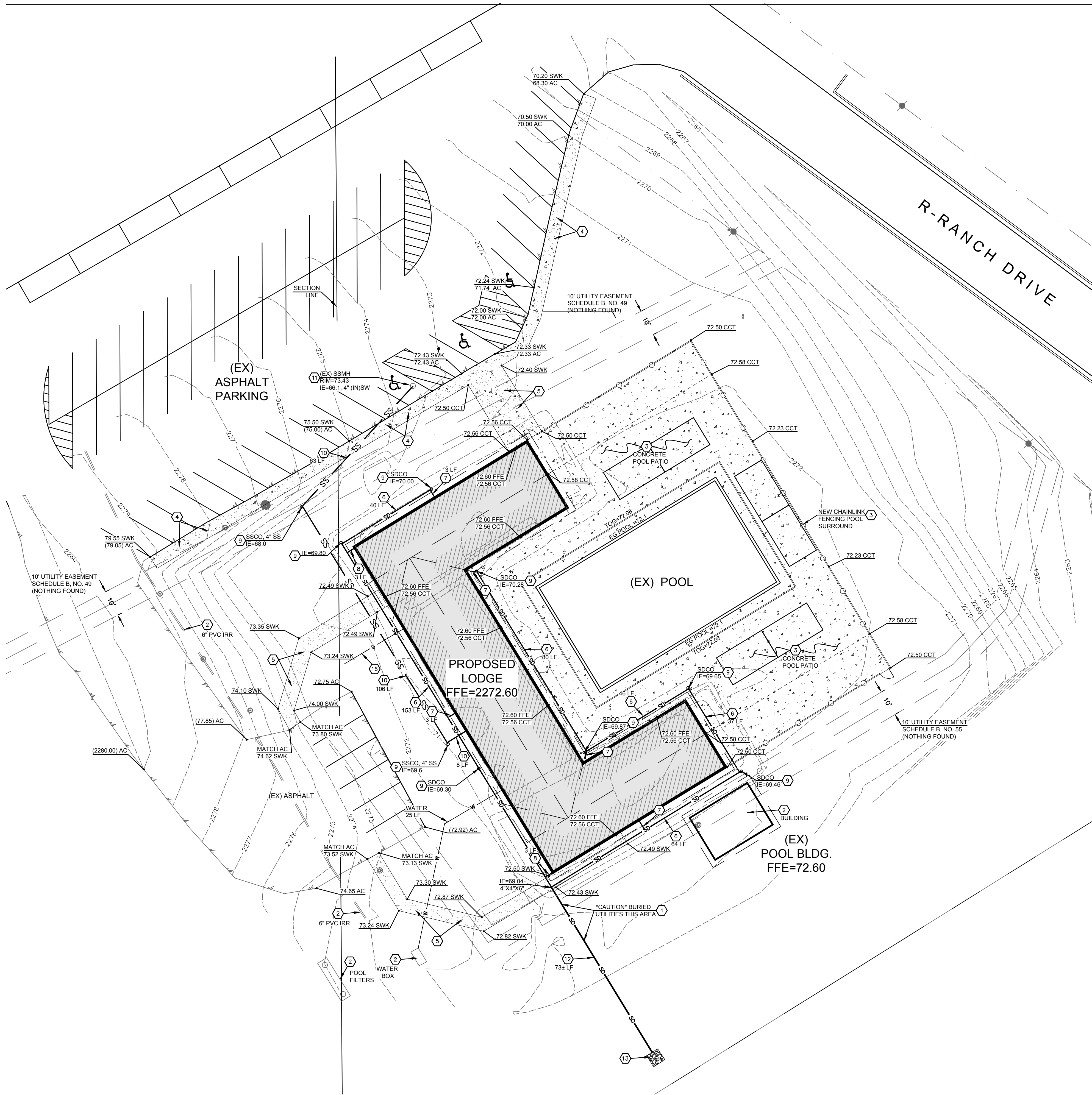
REVISIONS	BY

PLOT DATE: 1/17/20
 ISSUE DATE: 01/07/20
 DRAWN BY: REC
 JOB NO.: 19-1346
 SHEET

C1
BUNK HOUSE

PERMIT REVIEW
 KLAMATHON FIRE RE-BUILD

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- 5 CONSTRUCT STANDARD CONCRETE SIDEWALK, WIDTH PER PLAN. PER DETAIL 3, SHEET C2.
- 6 CONSTRUCT 4" STORM DRAIN LINE, SLOPE @ 0.5% (MIN.) TRENCH PER DETAIL 1, SHEET C3.
- 7 CONSTRUCT 4" ROOF DRAIN LINE, CONNECT TO 4" STORM DRAIN LINE. TRENCH PER DETAIL 1, SHEET C2.
- 8 CONSTRUCT 4" FOOTING DRAIN LINE. CONNECT TO 4" STORM LINE. TRENCH PER DETAIL 1, SHEET C2.
- 9 CONSTRUCT STANDARD UTILITY CLEAN-OUT. PER DETAIL 4 SHEET C2.
- 10 CONSTRUCT 4" SANITARY SEWER LINE, SLOPE AT 2% (MIN.) TRENCH PER DETAIL 1, SHEET C2. CONNECT TO BUILDING PER PLUMBING PLAN AND CURRENT BUILDING CODE.
- 11 CONNECT NEW 4" SANITARY SEWER LINE TO DRAIN FIELD STRUCTURE AT EXISTING PIPE LOCATION IF POSSIBLE. PLUG EXISTING ORIFICE IF NEW INVERT IS DIFFERENT. GROUT FOR WATER TIGHT SEAL.
- 12 CONSTRUCT 6" STORM DRAIN LINE, SLOPE @ 1.0% (MIN.) TO DAYLIGHT IN DRAINAGE. TRENCH PER DETAIL 1, SHEET C2.
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IE INVERT ELEVATION	GD GROUND
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TBC TOP BACK OF CURB	(EX) EXISTING FEATURE
SWK CONCRETE SIDEWALK	(0.00) EXISTING GRADE
SV SURVEY MONUMENT	(REC) RECORD INFORMATION
(P) PROPOSED FEATURE	

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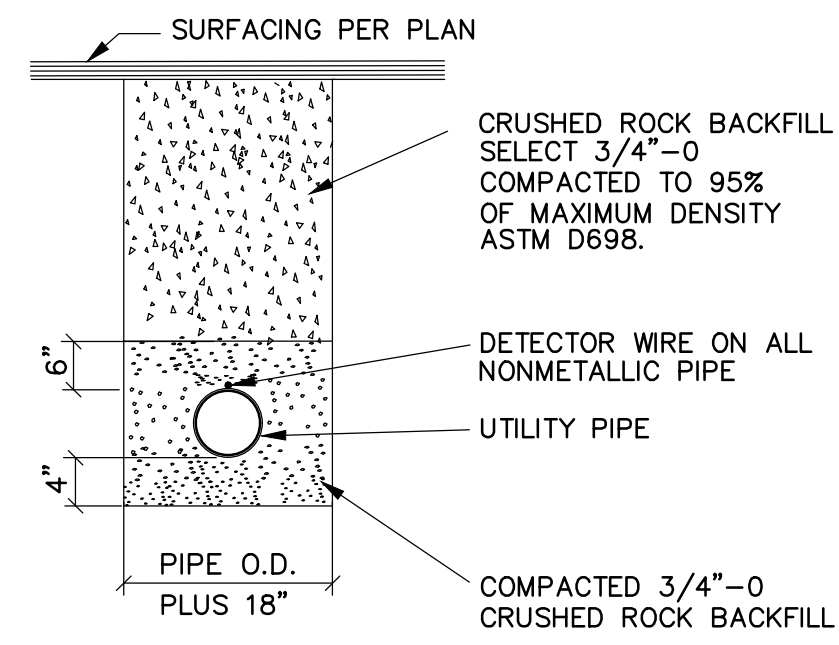
R-RANCH
 PROJECT LOCATION:
 225 DITCH CREEK ROAD, HORN BROOK, CA 90044
 PARCEL:

Approved for the Owner By:	Date:
REVISIONS	BY

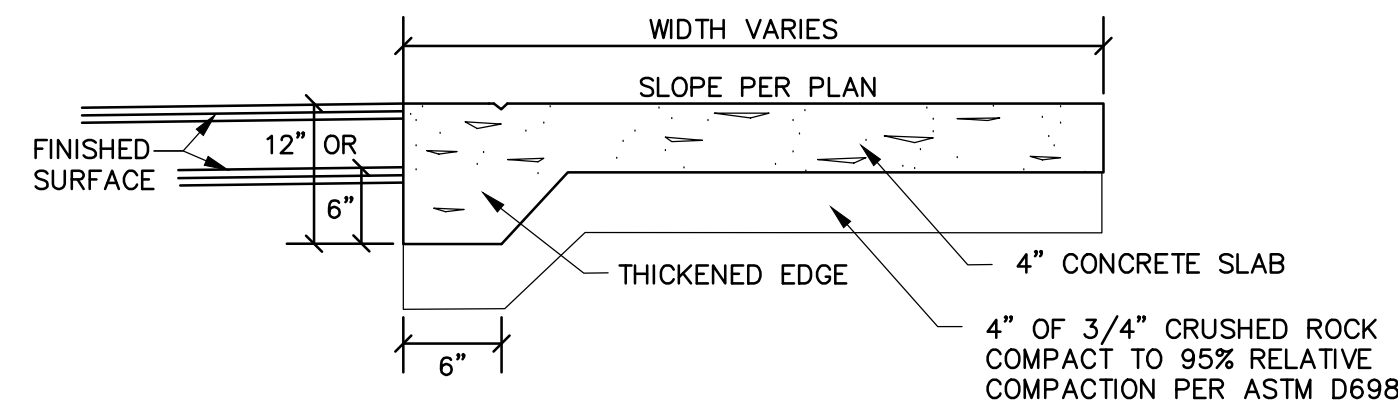
PLOT DATE: 1/17/20
 ISSUE DATE: 01/07/20
 DRAWN BY: REC
 JOB NO.: 19-1346
 SHEET
C1
LODGE

PERMIT REVIEW
 KLAMATHON FIRE RE-BUILD

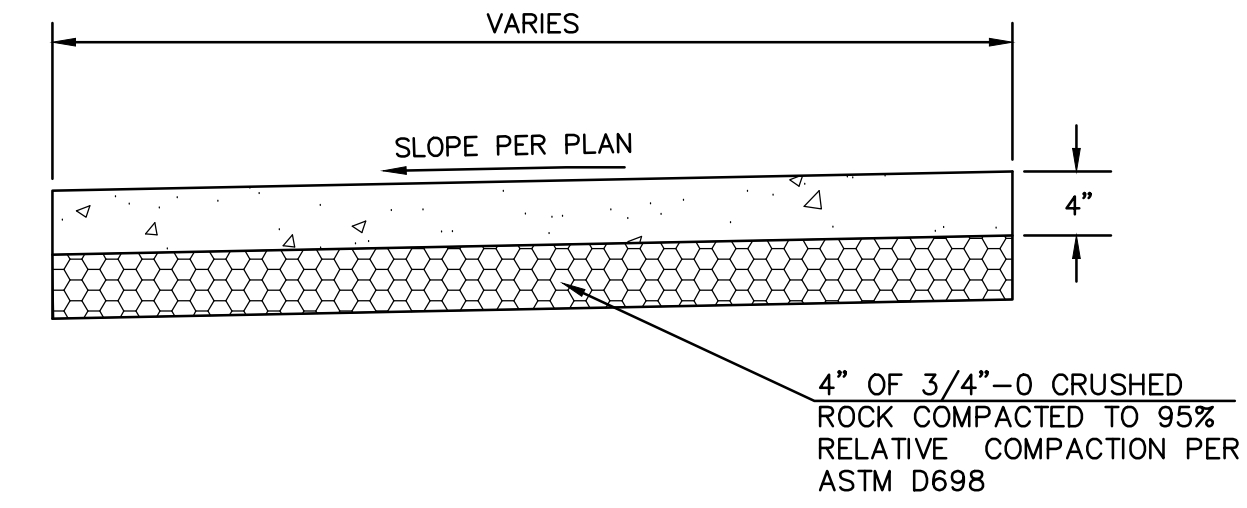
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1 UTILITY TRENCH DETAIL
SCALE: NONE

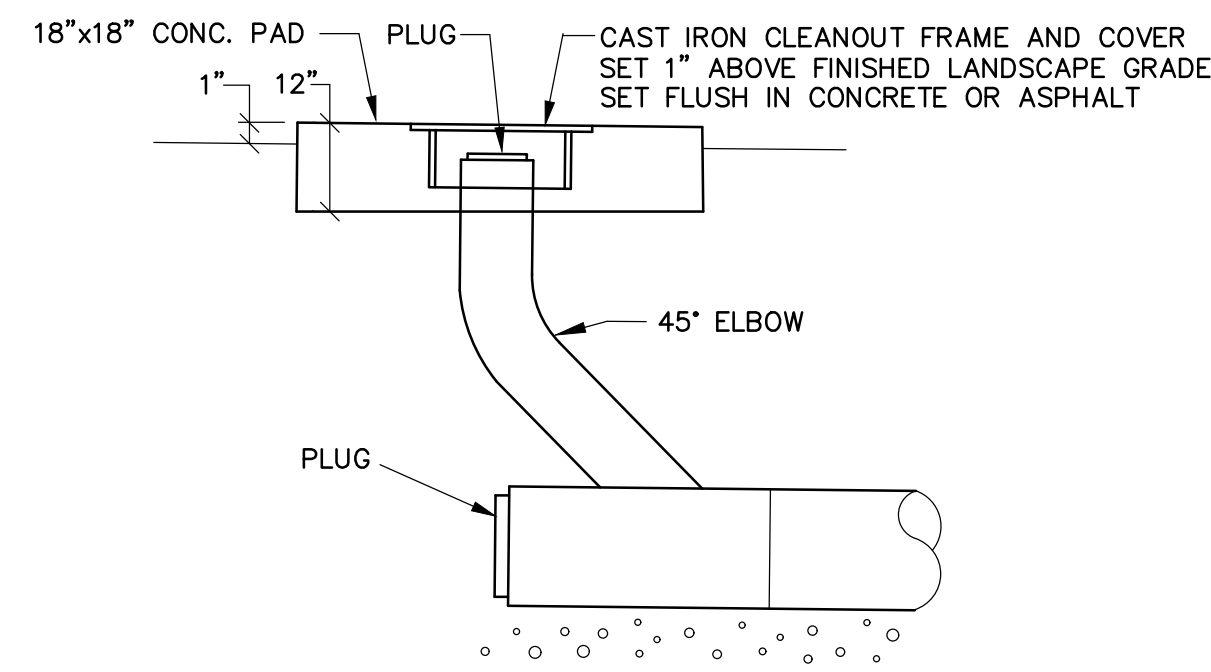


2 MONOLITHIC CURB AND SIDEWALK DETAIL
SCALE: NONE

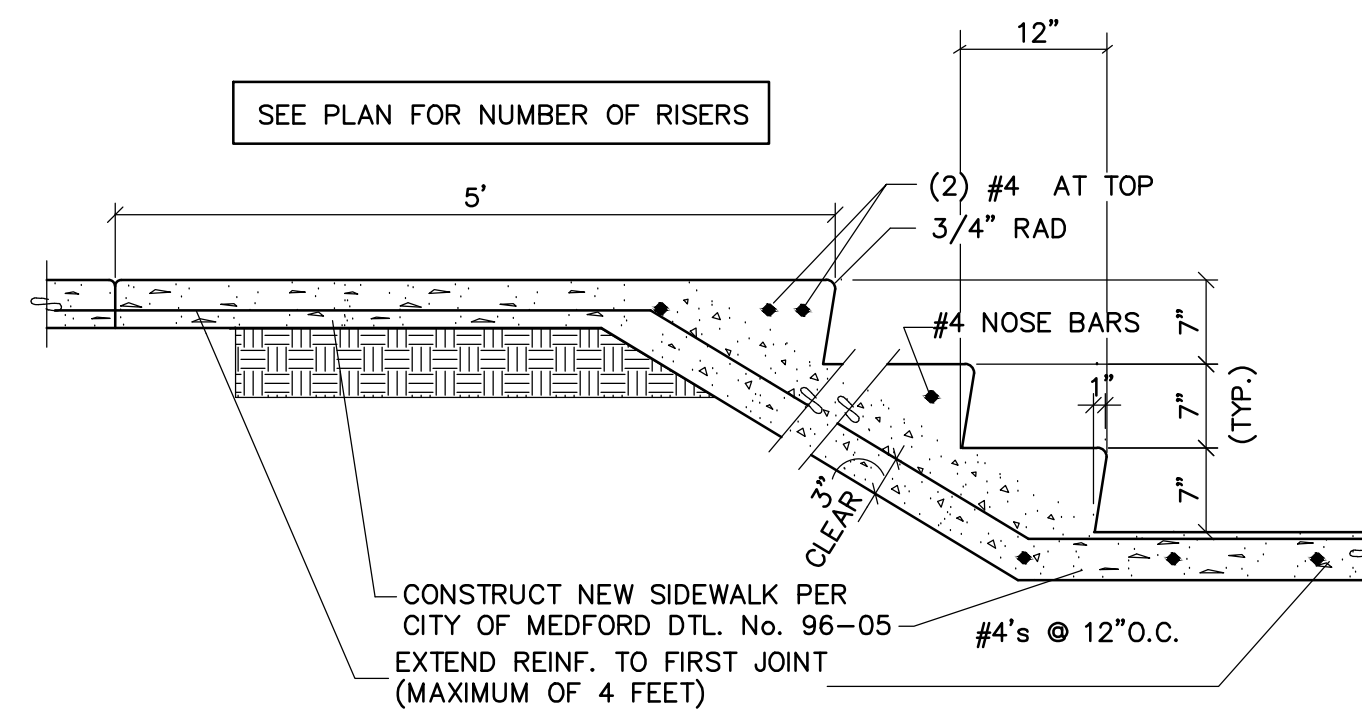


- NOTES:
1. CONCRETE & CONSTRUCTION AS PER ODOT SECTION 00759.
2. MATCH TO EXISTING GROUND AT MAXIMUM 3:1 SLOPE (CUT OR FILL).

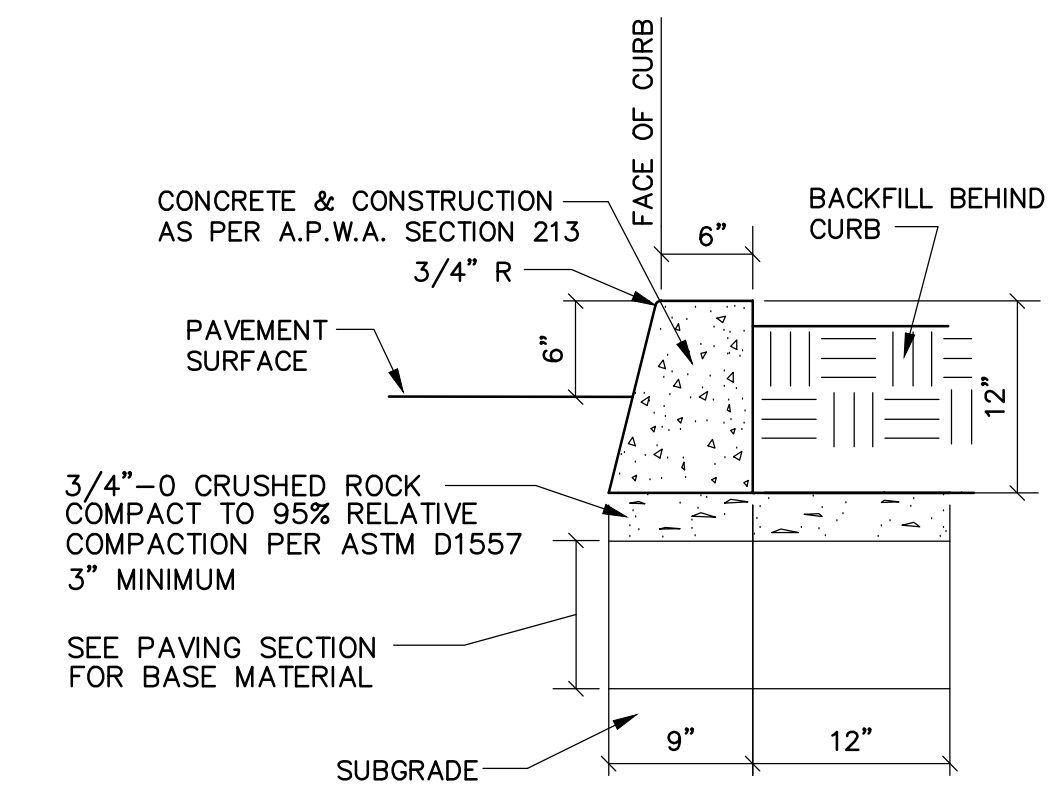
3 STD. SIDEWALK DETAIL
SCALE: NONE



4 CLEANOUT DETAIL
SCALE: NONE



5 STAIR DETAIL
SCALE: NONE



6 STD. CURB DETAIL
SCALE: NONE

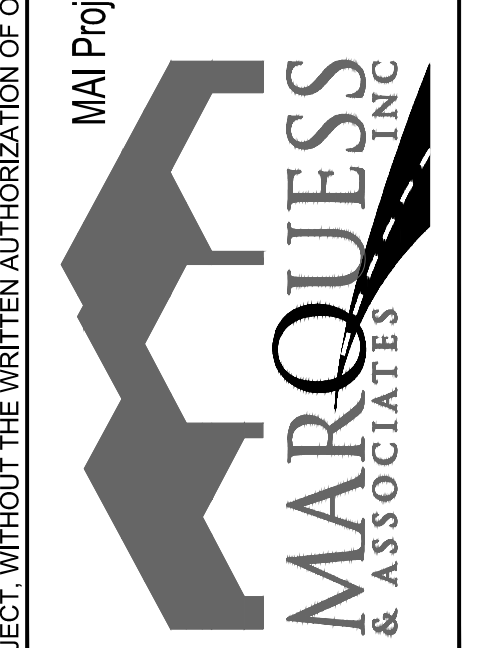
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PARCEL:

Approved for the Owner By: _____ Date: _____

REVISIONS	BY

PLOT DATE: 1/7/20
ISSUE DATE: 01/07/20
DRAWN BY: REC
JOB NO.: 19-1346

SHEET **C2**
DETAILS

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THESE PLANS ARE INTENDED FOR THE DESIGN/BUILD PURPOSES OF GUITON'S POOL CENTER AND MAY NOT BE COPIED OR USED WITHOUT THE EXPRESS WRITTEN CONSENT OF GUITON'S POOL CENTER.

THE FOLLOWING REMODEL WORK WILL TAKE PLACE ON THIS POOL:
 1. REPLACE ALL (8) SKIMMERS
 2. REPLACE ALL WATERLINE TILE ALONG WITH DEPTH MARKING TILES AS SHOWN
 3. REPLACE ALL BULLNOSE BRICK COPING
 4. INSTALL ALL NEW EQUIPMENT - SEE PAGE GPC-2 FOR DETAILS
 5. REMOVE AND REPLACE FIBERGLASS COATING AS NECESSARY INSIDE POOL
 6. REPLACE ALL HANDRAILS AND GRAB RAILS
 7. REMOVE AND REPLACE ALL (8) POOL LIGHTS
 8. OWNERS TO REPLACE ALL POOL DECKING
 9. OWNERS TO BUILD NEW MECHANICAL BUILDING

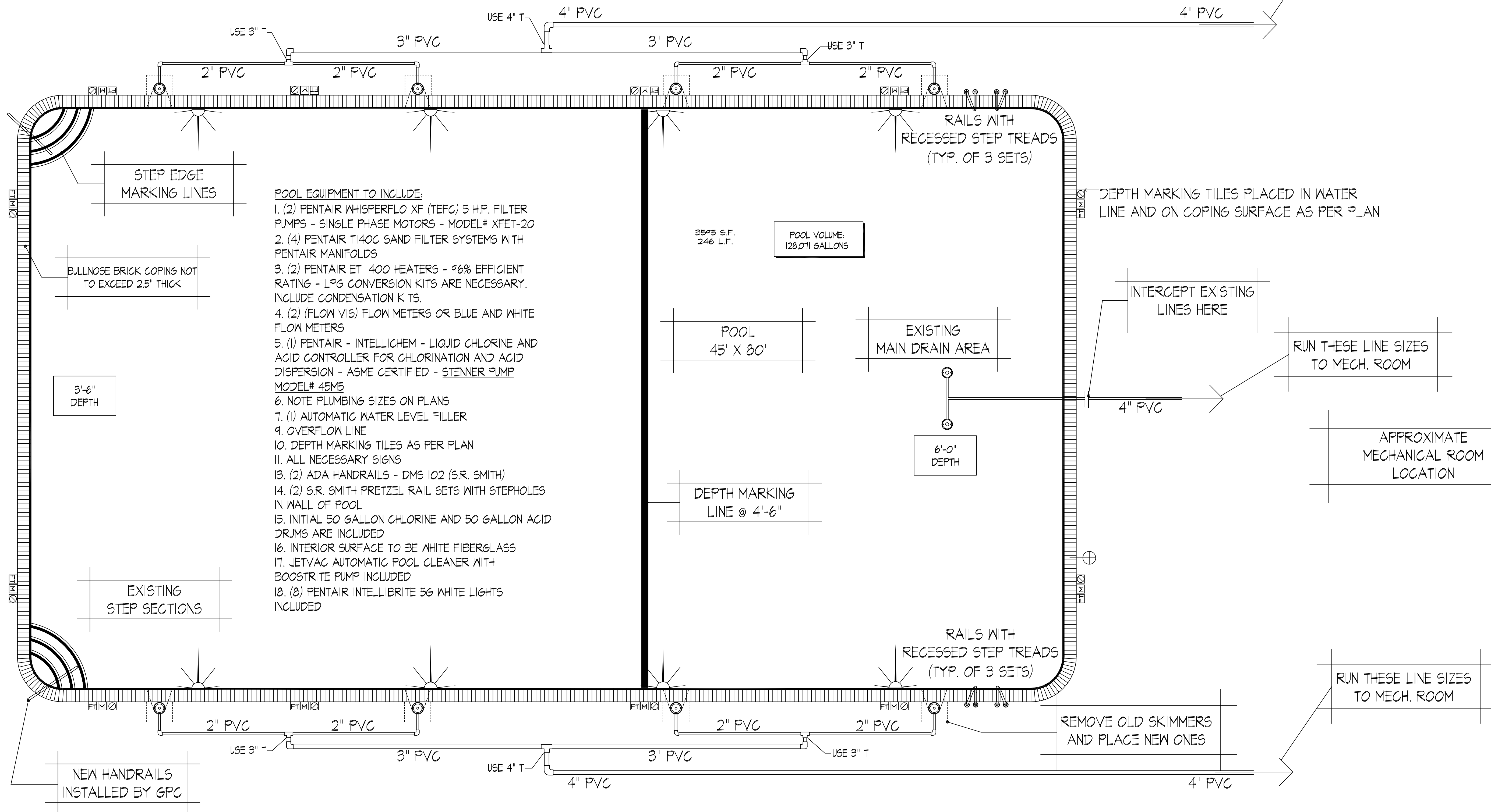
POOL PROFILES (SEE DEPTH MARKERS ON PLAN IF APPLICABLE)

CUSTOMER'S SIGNATURE _____ DATE _____

LEGEND

- AVL (1)
- DRAINS (1)
- WHT LED LT (8)
- SKIMMER (8)
- HANDRAIL (2)
- DEPTH MARKERS
- GRAB RAILS

Guiton's POOL CENTER, INC.
For People Who Care
 2305 LARKSPUR LANE
 REDDING, CA 96002
 PHONE: 530-221-6656
 FAX: 530-221-5323
 WWW.GUITONS.COM
 LIC. # 231577



DRAWING LEGEND:
 GPC-1 = SUCTION PLUMBING LAYOUT
 GPC-2 = DETAILS AND SPECS.
 GPC-3 = LIGHTING CONDUITS AND BONDING

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

DESIGNED ESPECIALLY FOR:
 R-RANCH
 16416 HORN BROOK ROAD
 HORN BROOK, CA 96044
 A.P.# 040-10-020-000

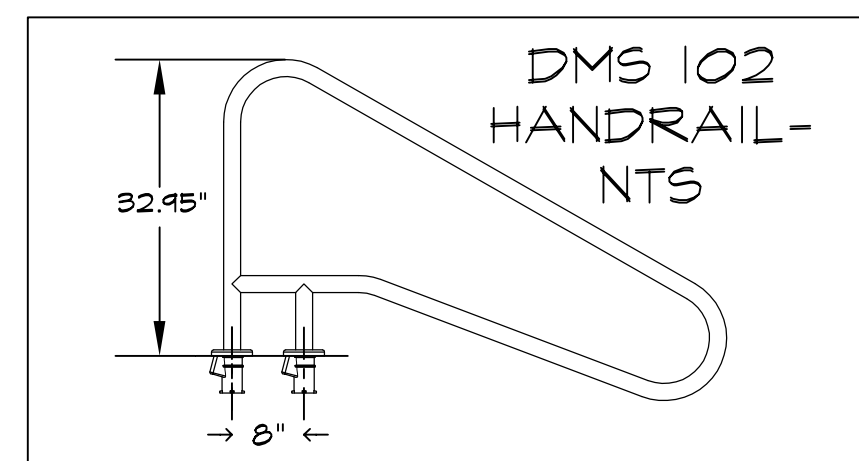
GPC-1
 ORIGINAL DRAFTSMAN
 TOM ALLEN - V.P.
 REV. #1 REV. #3
 REV. #2 REV. #4

Driving directions from Cypress Ave.

1. Turn right to merge onto I-5 N toward Portland
2. Take exit 790 for Hornbrook Hwy toward Ditch Creek Rd
3. Turn right onto Hornbrook Hwy

VICINITY MAP
 N.T.S.

THESE PLANS ARE INTENDED FOR THE DESIGN/BUILD PURPOSES OF GUITON'S POOL CENTER AND MAY NOT BE COPIED OR USED WITHOUT THE EXPRESS WRITTEN CONSENT OF GUITON'S POOL CENTER.



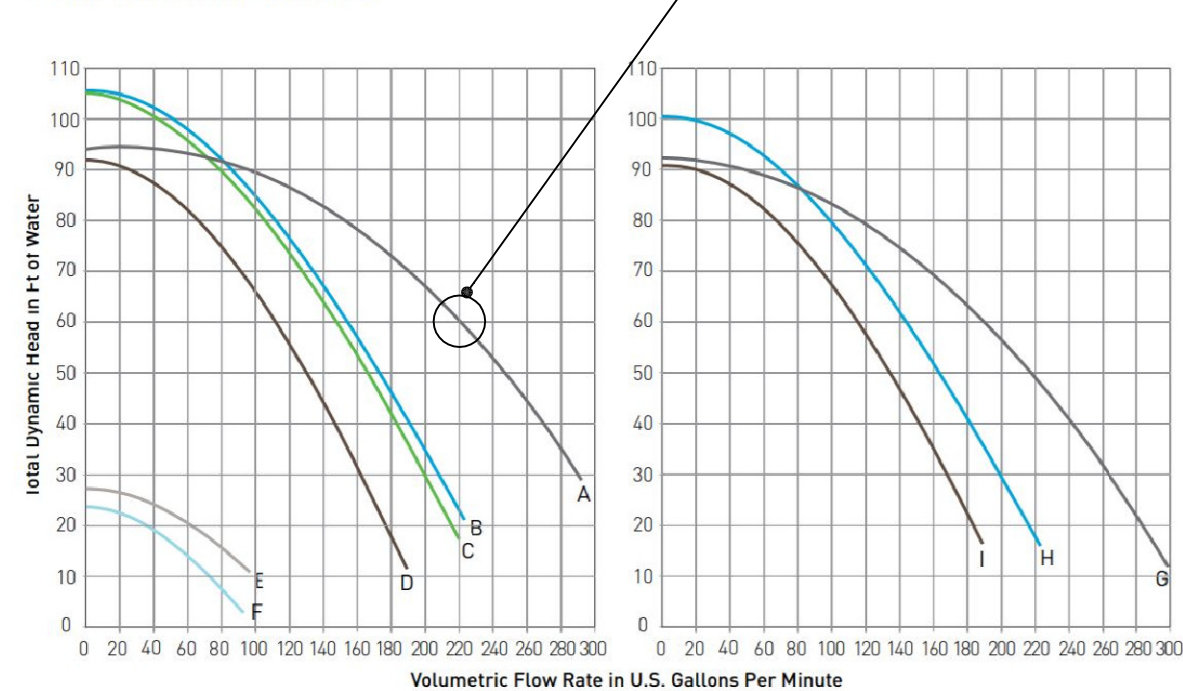
NOTES AND DETAILS

- NOTES:
1. PLACE TILE DEPTH MARKERS AS PER PLAN - IN COPING AND TILE LINE.
 2. ABSOLUTE SLOPE OF POOL DECKING IS TO BE 1/4 INCH PER FOOT OF FALL.
 3. DRAINAGE FROM DECKING WILL GO INTO APPROVED LANDSCAPE AREA.
 4. CONCRETE SLAB FOR POOL EQUIPMENT WILL HAVE A SLOPE OF 1/4 INCH PER FOOT OF FALL. THIS WORK TO BE DONE BY OTHERS.
 5. PLACE ANTI-SIPHON VALVE AND DOUBLE CHECK VALVE AT THE EQUIPMENT LOCATION PRIOR TO ANY FEED LINES TO THE POOL.
 6. INFLUENT AND EFFLUENT GAUGES SHALL BE INSTALLED ON THE LINES GOING INTO AND EXITING FROM THE FILTER.
 7. FLOW METERS WILL BE INSTALLED ON AN UNINTERRUPTED SECTION OF PIPE THAT IS 20" BEFORE AND 10" AFTER THE FLOW METER ITSELF.
 8. POOL INTERIOR TO BE WHITE FIBERGLASS.
 9. ALL UNDERWATER POOL LIGHTING SHALL BE GFCI PROTECTED AS PER 680-20(a)(1) OF THE CEC.
 10. ALL POOL PUMP MOTOR WIRINGS SHALL BE GFCI PROTECTED AS PER 680-6(B)(5)(d) OF THE CEC.
 11. SCHEDULE 40 PVC THROUGHOUT ENTIRE PROJECT.
 12. GAS LINE HOOKUP BY GUITONS IN POOL MECHANICAL ROOM ONLY AT UNIT. OTHER TRADES TO SUPPLY ADEQUATE GAS LINES TO POOL MECHANICAL ROOM.
 13. VENTING OF POOL AND SPA HEATERS TO BE DONE BY OTHER TRADES AND COORDINATED BY R-RANCH.
 14. GENERAL CONTRACTOR TO PROVIDE ADEQUATE WATER, POWER, COMBUSTIBLE AIR, SEWER LATERALS, VENTILATION AIR, GAS LINE SERVICE AND FLOOR DRAINS TO THE POOL MECHANICAL ROOM.

DESIGNED POOL TURNOVER:
128,071 GALLONS DIVIDED BY 6 HOUR TURNOVER
128,071 / 6 = 21345
21345 / 60 (GALLONS PER MINUTE) = 355 G.P.M.
DIVIDE 355 G.P.M. BY TWO SYSTEMS = 177.5 G.P.M. PER SYSTEM

PUMP PERFORMANCE IS 220 G.P.M. AT 60 FEET OF HEAD

PERFORMANCE CURVES



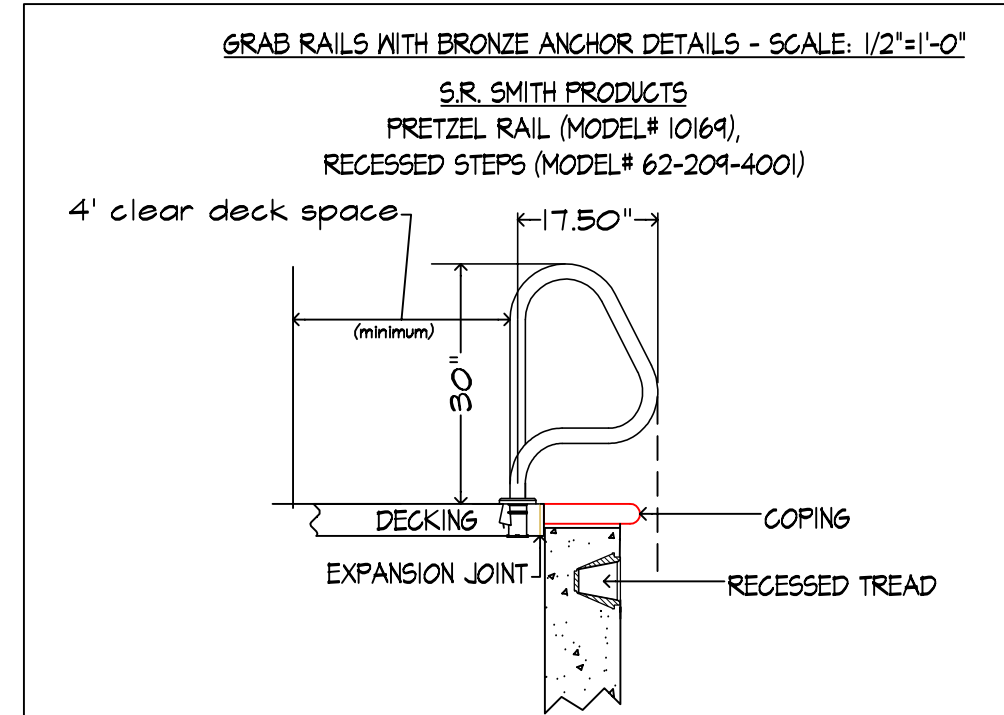
Performance Curve	Model	Description
A	XFE-20	5 HP, Single Speed Full Rated
A	XFE-20	5 HP, TEFC Super-Duty Single Speed
B	XFK-20	5 HP, 3-Phase, Super-Duty Motor
B	XFE-12	3 HP, Single Speed Full Rated
B, E	XFDS-12	3 HP, 2-Speed Full Rated
B	XFE-12	3 HP, TEFC Super-Duty Single Speed
H	XFK-12	3 HP, 3-Phase, Super-Duty Motor
D	XF-12	3 HP, Single Speed Full Rated
D	XF-8	2 HP, Single Speed Full Rated
D	XFET-8	2 HP, TEFC Super-Duty Single Speed
D	XF-8	2 HP, Single Speed Full Rated
D, F	XFDS-8	2 HP, 2-Speed Full Rated
D	XFE-30	2.5 HP, Single Speed Up Rated
D	XF-30	2.5 HP, Single Speed Up Rated
D, F	XFDS-30	2.5 HP, 2-Speed, Up Rated
I	XFK-8	2 HP, 3-Phase, Super-Duty Motor

Pumps and replacement motors that are single speed and one (1) Total HP or greater cannot be sold, offered for sale, or installed in a residential pool for filtration use in California, Title 20 CCR sections 1601-1609.

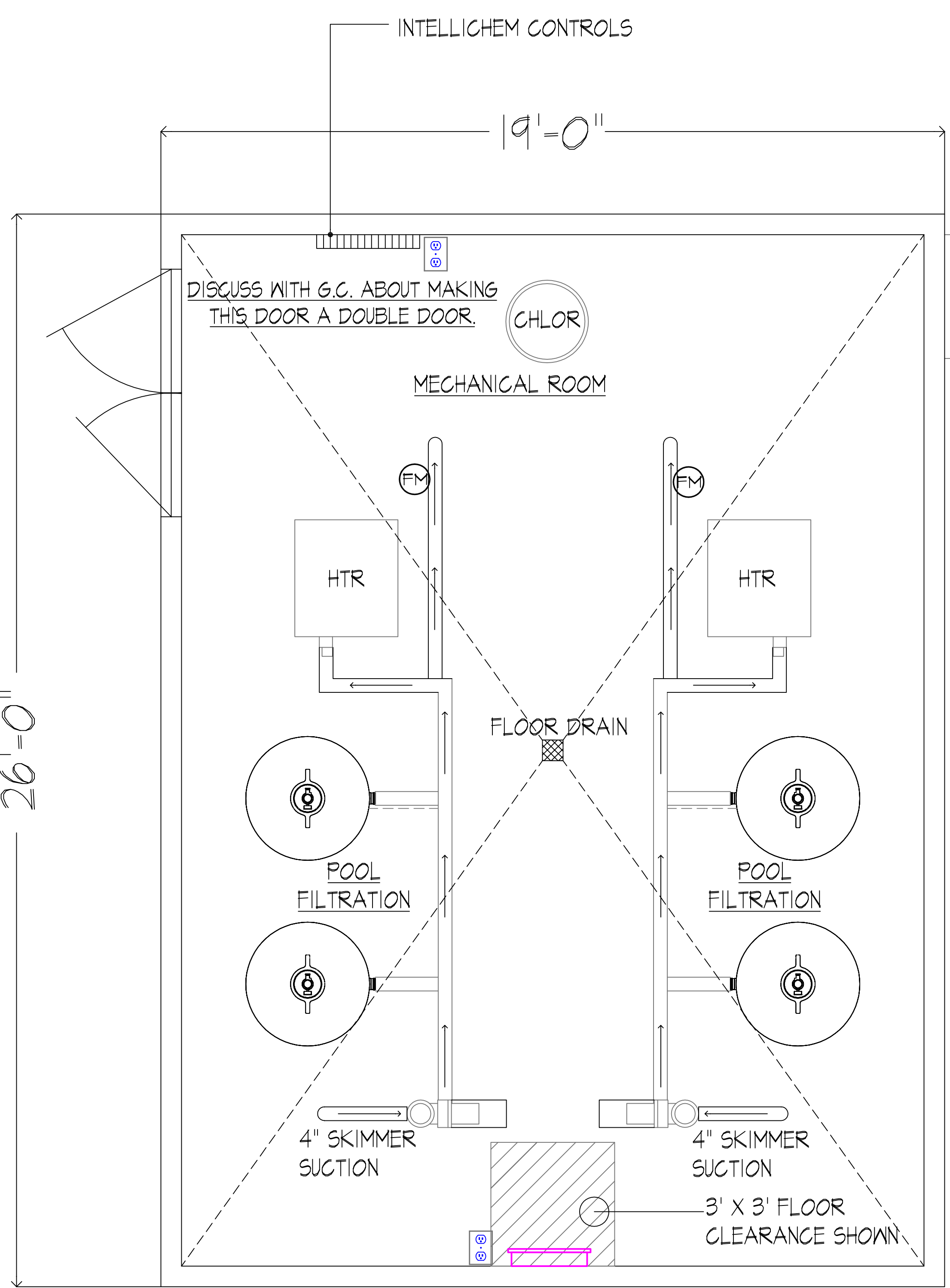
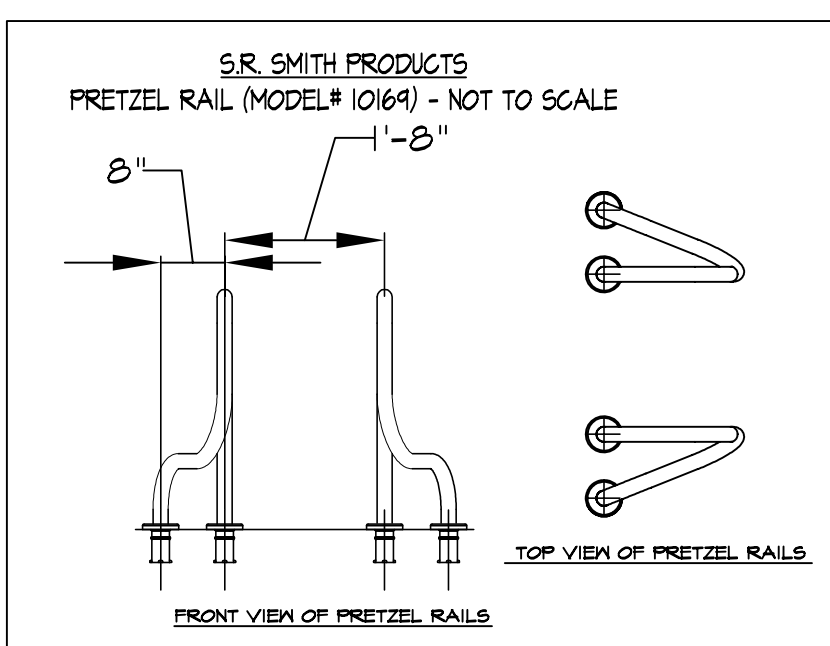
ENGINEERING DATA, FRICTION FLOW
FRICTION/FLOW CHART FOR SCHEDULE 40 RIGID PVC PIPE*

U.S. Feet per second	3/4" pipe		1" pipe		1-1/4" pipe		1-1/2" pipe		2" pipe		2-1/2" pipe		3" pipe		4" pipe		5" pipe		6" pipe		U.S. Gallons per minute	
	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss	Velocity	Loss		
1	.71	.40	.40	.50	.20	.03																1
2	1.43	1.64	.80	.35	.51	.12	.38	.05														2
3	2.14	3.05	1.20	.75	.77	.25	.53	.10														3
4	2.85	5.19	1.60	1.28	1.03	.43	.71	.18														4
5	3.56	7.85	2.00	1.94	1.28	.65	.89	.27	.58	.07	.32	.02	.22	.01								5
6	4.28	11.01	2.41	2.71	1.54	.92	1.07	.38	.80	.09	.38	.03	.27	.01								6
8	5.70	19.75	3.21	4.82	2.05	1.58	1.43	.64	.80	.16	.51	.05	.36	.02								8
10	7.13	28.34	4.01	6.99	2.57	2.38	1.78	.97	1.00	.24	.64	.08	.45	.03								10
15	10.69	60.06	6.01	14.81	3.85	5.09	2.67	2.56	1.50	.51	.96	.17	.67	.07								15
20			8.02	25.24	5.13	8.52	3.56	3.91	2.00	.87	1.28	.25	.89	.12	.80	.03						20
25			10.02	38.16	6.41	12.80	4.45	5.31	2.51	1.01	1.60	.44	1.11	.18	.93	.04						25
30			12.03	53.48	7.70	18.06	5.34	7.44	3.01	1.63	1.92	.62	1.34	.26	.76	.06	.48	.02				30
35					8.96	24.63	6.24	9.89	3.51	2.44	2.24	.82	1.56	.34	.88	.08	.56	.03				35
40					10.26	30.77	7.13	12.87	4.01	3.13	2.57	1.00	1.78	.43	1.00	.11	.64	.04				40
45					11.54	38.27	8.02	15.76	4.51	3.69	2.89	1.31	2.00	.54	1.13	.13	.72	.05				45
50					12.83	46.81	8.91	19.16	5.01	4.72	3.21	1.60	2.23	.66	1.25	.16	.80	.05	.56	.02		50
60					15.09	60.06	10.89	26.85	6.01	6.62	3.85	2.24	2.67	.92	1.50	.23	.96	.08	.87	.03		60
70					17.35	78.75	12.87	35.81	7.01	8.81	4.49	2.98	3.12	1.23	1.75	.30	1.12	.10	.78	.04		70
80					19.61	101.76	14.85	46.24	8.02	11.28	5.13	3.91	3.56	1.57	2.00	.39	1.29	.13	.89	.05		80
90					21.87	129.09	16.83	58.11	9.02	14.03	5.77	4.74	4.01	1.95	2.25	.48	1.44	.16	1.00	.07		90
100					24.13	160.64	18.81	71.46	10.02	17.06	6.41	5.75	4.45	2.37	2.51	.60	1.60	.20	1.11	.08		100
125					28.56	214.54	22.87	94.81	12.03	22.16	7.70	7.19	5.34	3.01	3.01	.80	1.92	.28	1.34	.12		125
150					33.00	281.82	27.00	122.47	14.03	28.36	9.02	8.71	6.66	4.03	3.76	1.24	2.41	.42	1.67	.17		150
175					37.44	362.59	31.17	154.64	16.03	35.81	10.51	10.40	7.75	4.89	4.38	1.68	2.81	.56	1.95	.23		175
200					41.88	467.06	35.34	191.51	18.03	44.41	12.01	12.29	9.02	5.81	5.13	2.00	3.31	.72	2.29	.29		200
225					46.32	586.34	39.61	232.88	20.03	54.19	13.51	14.16	10.51	6.81	6.01	2.41	3.81	.89	2.51	.37		225
250					50.76	720.43	43.89	279.81	22.03	64.16	15.01	15.96	12.01	7.81	7.01	2.81	4.41	1.09	2.78	.44		250
275					55.20	870.34	48.17	331.64	24.03	74.13	16.51	16.91	13.51	8.81	8.01	3.21	5.01	1.29	3.06	.53		275
300					59.64	1037.07	52.45	398.47	26.03	84.10	18.01	18.31	15.01	9.81	9.01	3.61	5.81	1.54	3.34	.62		300
325					64.08	1220.54	56.73	470.30	28.03	94.07	19.51	19.81	16.51	10.81	10.01	4.01	6.61	1.79	3.62	.72		325
350					68.52	1419.77	61.01	548.13	30.03	104.04	21.01	21.31	18.01	11.81	11.01	4.41	7.41	2.01	3.90	.83		350
375					72.96	1635.66	65.29	632.06	32.03	114.01	22.51	22.81	19.51	12.81	12.01	4.81	8.01	2.29	4.18	.94		375
400					77.40	1868.21	69.57	722.07	34.03	124.00	24.01	24.31	21.01	13.81	13.01	5.21	8.81	2.58	4.45	1.06		400
425					81.84	2117.44	73.85	818.28	36.03	134.00	25.51	25.81	22.51	14.81	14.01	5.61	9.81	2.86	4.73	1.19		425
450					86.28	2383.27	78.13	919.69	38.03	144.00	27.01	27.31	24.01	15.81	15.01	6.01	11.01	3.14	5.01	1.32		450
475					90.72	2665.20	82.41	1025.82	40.03	154.00	28.51	28.81	25.51	16.81	16.01	6.41	12.01	3.42	5.29	1.48		475

4" PVC PROVIDES VELOCITY UNDER 6 F.P.S.
NOTE: 225 GALLONS PER MINUTE EQUATES TO LESS THAN 6 FEET PER SECOND VELOCITY.



The vertical distance between the pool coping edge, deck, or step surface and the uppermost recessed tread shall not be greater than 12".



DISCUSS WITH G.C. ABOUT PLACING THE ACID DRUM OUTSIDE THE BUILDING

EQUIPMENT LEGEND:

- TRITON TRI40C FILTER
- HTR HEATER
- FILTRATION PUMP
- CHLOR LIQUID CHLORINE DRUM
- ACID LIQUID ACID DRUM
- FLOOR DRAIN
- INTELLICHEM CONTROLS
- ELECTRICAL PANEL
- FM FLOW METERS
- 110 VOLT GFCI OUTLET

DISCUSS WITH G.C. THE FOLLOWING:
1- BACKWASH LINE FOR THE FILTRATION SYSTEMS
2- AIR INTAKE INTO MECH. ROOM
3- GAS LINE STUB-INS
4- WATER LINE STUB-IN
5- EXHAUST OF HEATERS WITH CPVC

EQUIPMENT LAYOUT W/ FLOW INDICATION
SCALE: 1/2" = 1'-0"

LEGEND

JOB NUMBER:
SALES PERSON:
HOME PHONE:
WORK PHONE:
MOBILE PHONE: DAVE BADEK 530-548-4408
LOT NUMBER:
COORDINATES:
CUSTOMER'S SIGNATURE: _____ DATE: _____

POOL PROFILES(S)
(SEE DEPTH MARKERS ON PLAN IF APPLICABLE)

Guiton's POOL CENTER, INC.
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LIC. # 231577

DESIGNED ESPECIALLY FOR:
R-RANCH
16416 HORN BROOK ROAD
HORN BROOK, CA 96044
A.P.# 040-10-020-000

GPC-2
ORIGINAL DRAFTSMAN:
REV. #1 REV. #2
REV. #3 REV. #4

Driving directions from Cypress Ave.
113 mi.
A Turn right to merge onto I-5 N toward Portland
102 mi.
B Take exit 790 for Hornbrook Hwy toward Ditch Creek Rd
92 mi.
C Turn right onto Hornbrook Hwy
69 mi.

VICINITY MAP:
N.T.S.

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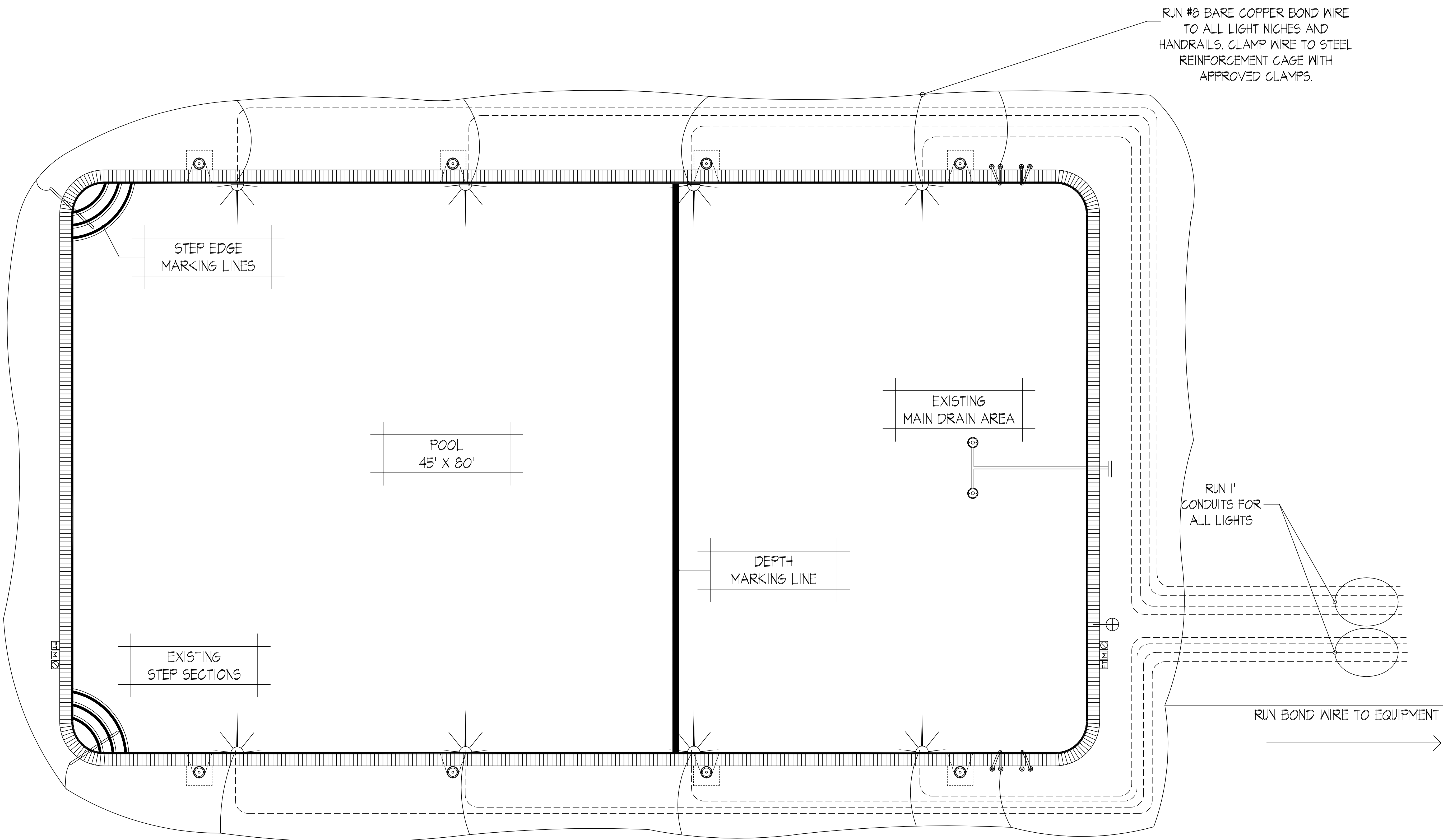
POOL PROFILES:
(SEE DEPTH MARKERS ON PLAN IF APPLICABLE)

CUSTOMER'S SIGNATURE _____ DATE _____

LEGEND
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MOBILE PHONE:
DAVE BAUDEK 530-548-4408
LOT NUMBER:
COORDINATES:



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EQUIPOTENTIAL BONDING GRID CLAMPED TO STEEL IN FOUR LOCATIONS - USE #8 BARE COPPER SOLID WIRE.

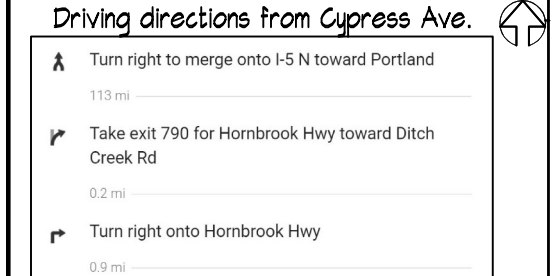
"R-RANCH"
POOL LIGHTS/CONDUITS

- PER (CEC 680.260) POOL WATER BOND SHALL BE ACCOMPLISHED BY THE FOLLOWING:
1. STAINLESS STEEL POOL LIGHT NICHE SHALL BE BONDED TO THE STEEL REINFORCEMENT CAGE BY AN APPROVED CLAMP. NET NICHE TO BE NON-CORROSIVE METAL
 2. #8 BARE COPPER WIRE SHALL BE CLAMPED TO THE POOL LIGHT NICHE
 3. PROVIDE POTTING COMPOUND AT TERMINATION POINT IN NET NICHE
 4. NON-CORROSIVE CONDUIT USED OUT OF THE NET NICHE
 5. PROVIDE #8 INSULATED COPPER CONDUCTOR IN CONDUIT

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

DESIGNED ESPECIALLY FOR:
R-RANCH
16416 HORN BROOK ROAD
HORN BROOK, CA 96044
A.P.# 040-10-020-000

GPC-3
ORIGINAL DRAFTSMAN:
REV. #1 REV. #3
REV. #2 REV. #4



VICINITY MAP:
N.T.S.