Addendum Number 1
Date: February 18, 2026
Project: Klamath Transportation Building and Boat Launch
Owner: Yurok Tribe

This addendum provides changes and/or clarifications, to the Contract Documents. These modifications pertain to the sections referenced below and to all other referenced or applicable sections in the Contract Documents.

Please sign the addendum receipt acknowledgment form and return to the Owner with your cost proposal and other required forms and documents.

Changes and/or clarifications to the bidding and contracting documents are as follows:

Change: Bid submission and opening date revised: February 25, 2026 @ 2:00 PM
Change: See attached revised specification section 000001 – Table of Contents
Change: See attached revised specification section 004100 – Bid Schedule
Change: Add Division 4, 042200-Masonry, and 044300-Stone Veneer
Change: Remove Division 13 from the specification
Clarification: See attached revised Construction Plans
Clarification: See attached Questions and Answers.
Clarification: See attached Prebid Meeting Minutes.
Clarification: See attached Prebid Meeting Sign in Sheet.
Clarification: See attached Soils Report.
Clarification: See attached Onsite Wastewater Treatment System Evaluation.
Clarification: Refer to the Environmental Permit for work mitigations and in-river work restrictions.

Addendum Receipt Acknowledgement Form

Receipt of Acknowledgement:

My firm received Addendum No. 1, consisting of 132 pages (including this sheet), for the Klamath Transportation Building and Boat Launch Project on February 18, 2026.

Name of Firm _____

Name (Print) _____

Name (Signature) _____

Date: _____

REVISED SPECIFICATIONS

TABLE OF CONTENTS

Division 33: Utilities

Division 34

Not used

Division 35: Waterway and Marine Construction

Divisions 36-48

Not Used

Forms

Not used

Attachments

DIVISION 04
MASONRY

SECTION 042223
CONCRETE MASONRY UNIT

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Concrete Masonry Units

B. Epoxy Bonding Adhesive

C. Control Joint Materials

D. Joint Reinforcement

E. Reinforcing Steel

F. Precast Beams, Lintels and Copings

G. Mortar

H. Grout

I. Surface Sealer

1.2 RELATED SECTIONS

A. Reinforcing steel for concrete and connecting dowels for grouted unit masonry are specified in Section 032000 - Concrete Reinforcing.

1.3 MEASUREMENT AND PAYMENT

A. General: Measurement and payment for concrete unit masonry will be per field measured square foot face and per Section 004100.

B. Measurement:
   a. Concrete unit masonry will be measured by the square foot or square yard for each type of masonry unit and thickness of wall. No deductions will be made for openings less than 64 inches square.
   b. Vertical and horizontal steel reinforcement, control joints, mortar, grout, anchors, ties, masonry cleaning, sealer, and miscellaneous accessories will not be measured separately for payment; such items will be considered incidental to, and included with, the concrete unit masonry work.

C. Payment: Concrete unit masonry will be paid for at the indicated Contract unit prices for the computed quantities as determined by the measurement method specified under Section 011000.

1.4 REFERENCES

A. American Concrete Institute (ACI):
   a. ACI 530 Building Code Requirements for Masonry Structures
   b. ACI 530.1 Specifications for Masonry Structures

B. American Society for Testing and Materials (ASTM):
   a. ASTM C33 Specification for Concrete Aggregates
   b. ASTM C90 Specification for Hollow Load-Bearing Concrete Masonry Units
   c. ASTM C91 Specification for Masonry Cement
   d. ASTM C94 Specification for Ready-Mixed Concrete
   e. ASTM C109 Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens)
   f. ASTM C143 Test Method for Slump of Hydraulic Cement Concrete
   g. ASTM C144 Specification for Aggregate for Masonry Mortar
   h. ASTM C150 Specification for Portland Cement
   i. ASTM C207 Specification for Hydrated Lime for Masonry Purposes
   j. ASTM C270 Specification for Mortar for Unit Masonry
   k. ASTM C404 Specification for Aggregates for Masonry Grout
   l. ASTM C476 Specification for Grout Masonry
   m. ASTM C881 Specification for Epoxy-Resin-Base Bonding Systems for Concrete
   n. ASTM C979 Specification for Pigments for Integrally Colored Concrete
   o. ASTM C1006 Test Method for Splitting Tensile Strength of Masonry Units
   p. ASTM C1019 Test Method for Sampling and Testing Grout

1.5 REGULATORY REQUIREMENTS

A. In addition to the foregoing referenced standards, the regulatory requirements that govern the work of this Section include the following governing code: California Code of Regulations (CCR), Title 24, Part 2, California Building Code, Chapter 21, “Masonry,” and Chapter 21A, “Masonry.”

1.6 SUBMITTALS

A. General: Refer to Section 013300 - Submittal Procedures for submittal requirements and procedures.

B. Shop Drawings: When not indicated in sufficient detail or definition, submit detailed drawings of unit masonry, showing type of mortar joints, bond pattern, reinforcing steel, connecting dowels, joint reinforcement, grouted cells, and control joints.

C. Product Data: Submit manufacturer's product data for block, including available color range, epoxy adhesive, joint reinforcement, and control-joint materials, along with installation instructions where applicable.

D. Samples: Submit full-size sample of block and samples of colored mortar for approval. Block and colored joint mortar require approval of the Engineer before they may be used in the concrete masonry work.

E. Certificates: Submit certification stating that concrete masonry units meet specification requirements and that masonry units conform to the special strength requirements of these Specifications. Each certificate shall be signed by the masonry unit manufacturer and shall contain the name of the manufacturer, the project location, and the quantity and dates of shipment or delivery to which the certificate applies.

1.7 QUALITY ASSURANCE

A. Concrete unit masonry work shall conform to applicable requirements of the California Building Code, Chapters 21 and 21A, ACI 530, and ACI 530.1, except as modified in these Specifications.

B. Construction tolerances for concrete unit masonry shall conform to ACI 530.1.

C. Refer to Section 01 45 00 - Quality Control, for additional requirements and procedures.

PART 2 - PRODUCTS

2.1 MATERIALS

A. Concrete Masonry Units (Concrete Block):

a. Concrete masonry units shall be of modular face dimensions and thicknesses indicated. Furnish necessary shapes and sizes, bond-beam units, and corner units as required to satisfy conditions indicated. Include half-size units where indicated or required.
b. Concrete masonry units shall be hollow load-bearing units conforming to ASTM C90, and shall be No. 1 Normal Weight, No. 2 Medium Weight, or No. 3 Light Weight, as applicable, Type I - Moisture Controlled Units. Units shall have a maximum linear shrinkage of 0.06 percent, and shall meet water absorption requirements of ASTM C90.
c. Concrete masonry units shall be normal cement-colored units with standard face surfaces. Cinders or ingredients that might stain paint finishes will not be permitted in the manufacture of concrete masonry units.

B. Split-Face Concrete Masonry Units:

   a. Split-face concrete masonry units shall conform to ASTM C90, as specified above for concrete masonry units, of modular face dimensions and thicknesses indicated. Face of units shall have special surface texture split-face, scored to dimensional module indicated. Minimum strength requirements shall conform to foregoing specified concrete masonry units.
   b. Block shall have integral color as selected by the Owner from manufacturer's standards.

C. Cement: ASTM C150, Type I or Type II Portland cement, low alkali. Provide white cement when required to achieve the mortar color selected by the Engineer. ASTM C91, Type S, masonry cement may be used together with ASTM C150 portland cement as herein specified under "Mortar."

D. Lime: ASTM C207, hydrated, Type S.

E. Mortar Sand: ASTM C144, natural sand, clean and graded.

F. Mortar Coloring Pigment: ASTM C979, manufactured, inert mineral oxides in color or colors as selected and approved by the Owner.

G. Grout Aggregate: ASTM C33 or ASTM C404, clean and graded concrete aggregates, proportioned by volume as follows: 3 parts fine and graded concrete aggregate to 2 parts of graded 3/8-inch maximum size coarse aggregate.

H. Water: Fresh, clean and potable, and free from such amounts of mineral and organic substances as would adversely affect the hardening of cement mortar.

I. Epoxy Bonding Adhesive: Adhesive for bonding of mortar bed to concrete slabs shall be an epoxy-based bonding agent conforming to ASTM C881, Type V, tinted to show by visual inspection where it has been applied.

J. Control Joint Materials: Conform to requirements of ACI 530.1.

K. Joint Reinforcement: No. 9 gage ladder or truss type steel wire conforming to ACI 530.1.

L. Reinforcing Steel: Provide reinforcing steel for grouted block masonry under this Section in accordance with the requirements of Section 032000 - Concrete Reinforcing, and ACI 530.1.

M. Precast Beams, Lintels, and Copings: Precast concrete of configuration indicated, conforming to requirements of Section 033000 - Cast in Place Concrete, and ACI 530.1. Provide exposed surfaces with light sand-blasted finish matching finish of masonry units as closely as possible.

2.2 MORTAR

A. Mortar Type and Mixing Requirements:

   a. Mortar for grouted unit masonry shall be Type S mortar in accordance with the California Building Code, Chapter 21 and 21A, ACI 530.1, and ASTM C270, with a minimum compressive strength at 28 days of 1,500 psi. A minimum of two 94-pound sacks of portland cement (ASTM C150) shall be provided per cubic yard of mortar when using ASTM C91 masonry cement.
   b. The use of an admixture for the purpose of reducing water content in mortar will be permitted, provided the strength of the mortar is not reduced.
   c. Mortar shall be job mixed and, in lieu of specific requirements specified herein, shall conform to ASTM C270, including measurement, mixing, proportioning, and water retention.
   d. Accurately measure mortar ingredients and mix a minimum of three minutes after water has been added, in a mechanical batch mixer, using sufficient water to produce a workable and plastic consistency. Hand mixing will be permitted for small quantities only.
   e. Use mortar within 2-1/2 hours after mixing when air temperature is 80 degrees or higher, and within 3-1/2 hours when air temperature is below 80 degrees. Discard any mortar that has been mixed longer or that has begun to set. If necessary, mortar may be re-tempered within this time limit, by replacing only water lost due to evaporation and by thorough remixing.

B. Colored Joint Mortar: Provide colored mortar for exposed masonry joints where indicated. Color shall be as approved by the Engineer from samples prepared and submitted by the Contractor. Pigment amount for selected color and mixing of colored mortar shall conform to the pigment manufacturer's instructions.

2.3 GROUT

A. Grout shall be Coarse Grout, as defined in ASTM C476, with a minimum compressive strength at 28 days of 2,000 psi, and shall be proportioned by volume in accordance with ACI 530.1.

B. Grout mix shall be designed in accordance with ASTM C94 for manufacturer designed mixes, and for handling by an approved grout pump. Slump shall be 10 inches.

C. The use of an admixture for the purpose of reducing water content in grout and adding flowability will be permitted, provided the strength of the grout is not reduced. Admixture shall be added to the mix as recommended by the manufacturer for the purpose intended.

2.4 SURFACE SEALER

A. Provide a water-based, VOC-compliant, clear, penetrating water-repellent sealer, designed to provide long-term protection against water absorption, for exterior concrete unit masonry surfaces. Submit sealer performance data and VOC compliance verification for approval.

PART 3 - EXECUTION

3.1 LAYING CONCRETE MASONRY UNITS

A. Installation Standards: Comply with applicable requirements of ACI 530.1.

B. Requirements: Construct concrete unit masonry to dimensions indicated. Concrete masonry units shall be dry when laid. Avoid using less than half-size units in exposed locations. Do not expose cells on any surface. Where concealed, spaces not large enough for full or half-size units may be filled with concrete building brick or mortar.

C. Work Quality:

   a. Masonry work shall be performed by skilled and experienced masons. Erect walls plumb and true to line, with courses level and joints uniform in width, using specified mortar. Vertical joints shall line up plumb in exposed walls.
   b. Concrete masonry units shall be sound and free of cracks and surface defects. Handle units carefully to avoid chipping and breaking. Do not substitute cut units where special shapes are available.
   c. Where steel beams or joists frame into masonry, fill spaces with mortar and finish off flush with masonry surface, neatly pointed around steel. Where pipes and ducts penetrate masonry, point neatly and accurately around pipes and ducts.

D. Cutting of Units: Cutting of units shall be kept to a minimum. Perform cutting accurately to accommodate items passing through or embedded in masonry, to meet surfaces that masonry abuts, and to fit various conditions. Cutting of masonry units shall be performed with a power-driven masonry saw. Rub cuts smooth and even with carborundum or emery stone.

E. Bedding and Jointing:

   a. Use full mortar bed and coverage on horizontal and vertical face shells of hollow units. Webs also shall be bedded in mortar. Shove vertical joints tight.
   b. Top surfaces of concrete foundations or other bed joints shall be clean concrete with aggregate exposed before start of laying. Tops of foundations shall be roughened and cleaned to remove laitance for exposing aggregates in the concrete. Where block is to be laid on slabs, bed joints shall be roughened and cleaned, and an epoxy bonding adhesive shall be applied before laying first course of block.

End Section 042223

SECTION 044300
STONE VENEER

PART 1 - GENERAL

1.1 DESCRIPTION

A. This section specifies requirements for construction of stone veneer.

1.2 RELATED WORK

A. Cast-in-place concrete.

B. Precast Concrete Columbarium Niches.

C. Mortars and grouts.

E. Steel lintels and shelf angles.

F. Cavity insulation.

G. Flashing.

H. Sealants and sealant installation.

I. Color and texture of masonry units.

1.3 SUBMITTALS

A. Submit in accordance with Section 013300, shop drawings, product data and samples.

B. Samples:

1. Stone Veneer, sample, 200 mm by 400 mm (8 inches by 16 inches) minimum showing full color range and texture of stone, bond, and proposed mortar joints.
2. Anchors, and ties, one each and joint reinforcing 1200 mm (48 inches) long.

C. Certificates signed by stone/veneer source, including name and address of contractor, project location, and the quantity, and date or dates of shipment of delivery to which certificate applies; indicate that the stone veneer meets specification requirements.

D. Manufacturer's Literature and Data:

1. Anchors, ties, and reinforcement.
2. Reinforcing bars.

1.4 SAMPLE PANEL

A. Before starting masonry, lay up a sample panel as specified:

1. Use stone units from random pallets of units delivered on site.
2. Include reinforcing, ties, and anchors.
3. Provide a 1.2m x 1.8m (4 feet x 5 feet) panel.

B. Use sample panels approved by Engineer for standard of workmanship of new masonry work.

C. Use sample panel to test cleaning methods.

1.5 WARRANTY

A. Warrant exterior masonry walls against moisture leaks and subject to terms of "Warranty of Construction". Warranty period to be five years.

1.6 APPLICABLE PUBLICATIONS

A. Publications listed below form a part of this specification to extent referenced. Publications are referenced in text by the basic designation only. Comply with applicable provisions and recommendations of the following, except as otherwise shown or specified.

B. American Society for Testing and Materials (ASTM):

A82/A82M-07	Steel Wire, Plain, for Concrete Reinforcement
A153/A153M-09	Zinc Coating (Hot-Dip) on Iron and Steel Hardware
A951/A951M-11	Steel Wire for Masonry Joint Reinforcement
C97/C97M-09	Absorption and Bulk Gravity of Dimension Stone
C99/C99M-09	Modulus of Rupture of Dimension Stone
C119-11	Standard Terminology Relating to Dimension Stone
C170/C170M-09	Compressive Strength of Dimension Stone
C568/C568M-10	Limestone Dimension Stone
C615/C615M-11	Granite Dimension Stone
C616/C616M-10	Quartz-Based Dimension Stone
C880/C880M-09	Flexural Strength of Dimension Stone
C1242-12ae1	Selection, Design, and Installation of Dimension Stone Attachment Systems
C1353-09	Abrasion Resistance of Dimension Stone Subjected to Foot Traffic Using a Rotary Platform, Double-Head Abraser
C1515-11	Cleaning of Exterior Dimension Stone, Vertical and Horizontal Surfaces, New or Existing
C1528-12b	Selection of Dimension Stone
D1056-07	Flexible Cellular Materials – Sponge Expanded Rubber

D7089-06 Determination of the Effectiveness of Anti-Graffiti Coating for Use on Concrete, Masonry, and Natural Stone Surfaces by Pressure Washing

C. Masonry Industry Council: All Weather Masonry Construction Manual, 2000

D. International Masonry Industry All Weather Council (IMIAC): Recommended Practices and Guide Specification for Cold Weather Masonry Construction

1.7 PRE-INSTALLATION CONFERENCE

A. Convene a meeting on site, after submittals are received and approved but before any work, to review drawings and specifications, submittals, schedule, manufacturer instructions, site logistics and pertinent matters of coordination, temporary protection, governing regulations, tests and inspections; participants to include Engineer, Owner and all other parties whose work is effected or related to the work of this section.

PART 2 – PRODUCTS

2.1 ACCEPTABLE STONE PRODUCTS

A. Limestone Veneer: Meet ASTM C568, Classification: II Medium-Density.
   1. Face Size: As indicated.
   2. Color Range, finish, per manufacturer.

B. Granite Veneer: Meet ASTM C615.
   1. Face Size: As indicated.
   2. Color Range, finish, per manufacturer.

C. Quartz Based Stone: Comply with ASTM C616, Classification I Sandstone.
   1. Face Size: As indicated.
   2. Color Range, finish, per manufacturer.

2.2 REINFORCEMENT AND ANCHORAGES

A. Materials: Provide ties and anchors specified in subsequent paragraphs that are made from materials that comply with paragraphs below, unless otherwise indicated.
   1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A82; with ASTM A153/153M, Class B-2 coating.

B. Wire Ties, General: Unless otherwise indicated, size wire ties to extend at least halfway through veneer but at least 16mm (5/8 inch) cover on outside face. Outer ends of wires are to be bent 90 degrees and extend 50 mm (2 inches) parallel to face of veneer.

C. Individual Wire Ties: Rectangular units with closed ends and not less than 100 mm (4 inches).
   1. Where widths do not align or are of different materials, use adjustable ties with pintle-and-eye connections having a maximum adjustment of 32 mm (1-1/4 inches).
   2. Wire: Fabricate from 4.8 mm (3/16 inch) diameter, hot-dip galvanized steel wire. Mill-galvanized wire ties may be used in interior walls, unless otherwise indicated.
   3. Basis of Design for Acceptable Product: Heckman Building Products, Inc.; No. 262.

D. Adjustable Masonry-Veneer Anchors:
   1. General: Provide anchors that allow vertical adjustment but resist tension and compression forces perpendicular to plane of wall, for attachment over sheathing to wood or metal studs, and as follows:
      a. Structural Performance Characteristics: Capable of withstanding a 445 N (100 lbf) load in both tension and compression without deforming or developing play in excess of 1.3 mm (0.05 inch).
   2. Screw-Attached, Masonry-Veneer Anchors: Units consisting of a wire tie and a metal anchor section.
      a. Anchor Section: Zinc-allow barrel section with flanged head with eye and corrosion–resistant, self-drilling screw. Eye designed to receive wire tie and to serve as head for drilling fastener into framing. Barrel length to suit sheathing thickness, allowing screw to seat directly against framing with flanged head covering hole in sheathing.
      b. Wire Ties: Triangular-, rectangular-, or T-shaped wire ties fabricated from 4.8 mm (0.188 inch) diameter, hot-dip galvanized steel wire.
      c. Acceptable Product: Heckmann Building Products, Inc.; No. 75 Pos-I-Tie or approved alternate.

2.3 ACCESSORIES

A. Joint Sealant: per veneer manufacturer recommendation

B. Nailing Strips: Western softwood, preservative treated, sized to masonry joints.

C. Weep Holes: Leave-out of full head mortar joints.

D. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.

1. Strips, full-depth of cavity and 250 mm (10 inches) wide, with dovetail shaped notches 175 mm (7 inches) deep that prevent mesh from being clogged with mortar droppings.

E. Mortar: per veneer manufacturer recommendation.

F. Expansion Joint Fillers: ASTM D1056 Class RE-11.

G. Cementitious Damp-proofing: Cementitious formulation non-staining to stone; compatible with joint sealants and noncorrosive to anchors and attachments.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify that field conditions are acceptable and are ready to receive work.

B. Verify items provided by other Sections of work are properly sized and located.

C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

D. Beginning of installation means installer accepts existing conditions.

3.2 PREPARATION

A. Verify items provided by other Sections of work are properly sized and located.

B. Establish lines, levels, and coursing; protect from disturbance.

C. Provide temporary bracing during erection of masonry work. Maintain in place until building structure provides permanent bracing.

D. Scaffolding: Provide, erect, maintain, move, and finally remove scaffolding and staging required for masonry installation. Construct and maintain scaffolding in compliance with applicable ordinances, laws, rules and regulations. Scaffolding must be sufficiently substantial to support workmen, and necessary materials and equipment. Provide adequate guard rails for protection of property, workmen, and passerby.

E. Clean dirty or stained stone surfaces by removing soil, stains, and foreign materials before setting. Clean stone by thoroughly scrubbing with fiber brushes and then

drenching with clear water. Use only mild cleaning compounds that contain no caustic or harsh materials or abrasives.

F. Coat stone with damp-proofing to extent indicated below:
   1. Stone at Grade: Beds, joints, and back surfaces to at least 12 inches above finish-grade elevations.
   2. Stone Extending Below Grade: Beds, joints, back surfaces, and face surfaces below grade.
   3. Allow damp-proofing to cure before setting damp-proofed stone. Do not damage or remove damp-proofing while handling and setting stone.

3.3 COURSING

A. Place masonry to lines and level indicated.
B. Arrange and trim stones for adequate fit in a range pattern with course heights as indicated, random lengths, uniform joint widths with offset between vertical joints as indicated.

3.4 PLACING AND BONDING

A. Lay masonry in full bed of mortar (horizontal, vertical, and collar joints), properly jointed with other work. Buttering corners of joints and deep or excessive furrowing of mortar joints is not permitted.
B. Fully bond intersections, and external and internal corners.
C. Do not shift, or tap masonry units after mortar has taken initial set. Where adjustment must be made, remove mortar and replace.
D. Remove excess mortar on surface and in cavities.
E. Perform job site saw cutting with proper tools to provide straight unchipped edges. Take care to prevent breaking masonry unit corners or edges.

3.5 TOLERANCES

A. Alignment of Columns: Maximum of 6 mm (1/4 inch) from true line.
B. Variation from Unit to Adjacent Unit: 0.8 mm (1/32 inch) maximum.
C. Variation from Plane of Wall: 6 mm (1/4 inch) in 3 m (10 feet) and 12 mm (1/2 inch) in 6 m (20 feet) or more.
D. Variation from Plumb: 6 mm (1/4 inch) per story non-cumulative, 12 mm (1/2 inch) in two stories or more.

E. Variation from Level Coursing: 3 mm (1/8 inch) in 1 m (3 feet); 6 mm (1/4 inch) in 3 m (10 feet); 6 mm (1/4 inch) maximum.

F. Variation of Joint Thickness: 3 mm (1/8 inch) in 1 m (3 feet).

G. Maximum variation from Cross Sectional Thickness of Walls: Plus or minus 6 mm (1/4 inch).

3.6 REINFORCEMENT AND ANCHORAGES

A. Attach wall ties to wall studs (or other solid and secure framing members) for veneer construction at maximum 400 mm (16 inches) on center vertically and 400 mm (16 inches) on center horizontally. Place at maximum 200 mm (8 inches) on center (or every third course) each way around perimeter of openings, within 300 mm (12 inches) of openings.

B. Anchor stone veneer to unit masonry with metal veneer anchors as follows:

1. Secure wire anchors by inserting pintles into eyes of masonry wall reinforcement projecting from horizontal mortar joints.
2. Embed anchors in veneer mortar joints to within 25 mm (1 inch) of face.

3.7 MASONRY FLASHINGS

A. Extend flashings to exterior face of veneer, turn up a minimum of 200 mm (8 inches) and seal onto face of sheathing over stud framed back-up.

B. Lap end joints minimum 150 mm (6 inches) and seal watertight per manufacturer's recommendation.

C. Use flashing manufacturer's recommended adhesive and termination sealant.

D. Create end dams at end of window heads, and other vertical elements to channel water to nearest weep hole away from windows and other items which might allow water to travel vertically.

3.8 LINTELS

A. Install loose steel lintels as scheduled or shown. Leave space at end of lintels to expand.

3.9 WEEPS AND VENTS

A. Install weep holes in veneer at 600 mm (24 inches) on center horizontally above through-wall flashing, above shelf angles, and at bottom of walls.

3.10 CONTROL/EXPANSION JOINTS

A. Size control joints for sealant performance, but in no case larger than adjacent mortar joints.
B. Provide expansion joints as recommended by the manufacturer.

3.11 BUILT-IN WORK

A. As work progresses, build-in metal door frames, fabricated metal frames, window frames, wood nailing strips, anchor bolts, plates, and other items to be built in the work supplied by other Sections.
B. Build-in items plumb and level.
C. Bed anchors of metal door and glazed frames in mortar joints. Fill frame voids solid with mortar.
D. Do not build-in organic materials subject to deterioration.

3.12 CUTTING AND FITTING

A. Cut and fit for chases, pipes, conduits, sleeves, and grounds. Cooperate with other Sections of work to provide correct size, shape, and location.
B. Obtain approval prior to cutting or fitting any area not indicated or where appearance or strength of masonry work may be impaired.

3.13 CLEANING

A. Remove excess mortar and smears.
B. Replace defective mortar. Match adjacent work.
C. Clean soiled surfaces with non-acidic solution which will not harm masonry or adjacent materials. Consult masonry manufacturer for acceptable cleaners. Leave surfaces thoroughly clean and free of all mortar and other soiling.
D. Use non-metallic tools in cleaning operations.
E. Comply with ASTM C1515 and D7089.

3.14 PROTECTION

A. Maintain protective boards at exposed external corners which may be damaged by construction activities.
B. Provide protection without damaging completed work.
C. Keep expansion joint voids clear of mortar.

END SECTION 044300

REVISED CONSTRUCTION PLANS

TRANSPORTATION BUILDING
APN: 140-050-025

FOR
YUROK TRIBE
144 KLAMATH BLDV.
KLAMATH, CA. 95548

STATE REGULATED WILD LAND FIRE STANDARDS

A. DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO SHEET ROCK INSPECTION.

B. EXTERIOR SIDING PRODUCTS, INCLUDING SHEATHING, TO BE OF APPROVED PRODUCTS (CAL-FIRE URBAN INTERFACE APPROVED).

C. EXTERIOR WALL VENTS TO BE 1/16"-1/8" SCREEN.

D. EXTERIOR DOORS TO BE NON COMBUSTIBLE CONSTRUCTION, OR 1-3/8" SOLID CORE WOOD, OR 20-MIN. FIRE RATED.

E. WINDOWS SHALL HAVE MINIMUM ONE TEMPERED PANE (PER SRA STANDARDS.)

F. DECKING SURFACES TO BE APPROVED PRODUCT. [NON-IGNITABLE, CAL-FIRE URBAN INTERFACE APPROVED]

G. NO. 72 VALLEY FLASH UNDERLAYMENT CAP SHEET RUNNING FULL LENGTH OF VALLEY UNLESS ROOF COVER IS INTERWOVEN.

H. EAVE AND SOFFIT VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME ENTRANCE (CAL-FIRE URBAN INTERFACE APPROVED).

I. UNDERSIDES OF EAVES SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE.

J. ALL ACCESSORY BUILDINGS SHALL BE AT LEAST 10' FROM PROPERTY LINE OR MUST COMPLY WITH CBC CHPT. 7A.

K. ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION OF LEAVES.

BUILDING CODE COMPLIANCE

BUILDING SHALL COMPLY WITH 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE, 2022 CALIFORNIA FIRE CODE (CFC), 2022 GREEN BUILDING STANDARDS CODES, AND ALL APPLICABLE CODES.

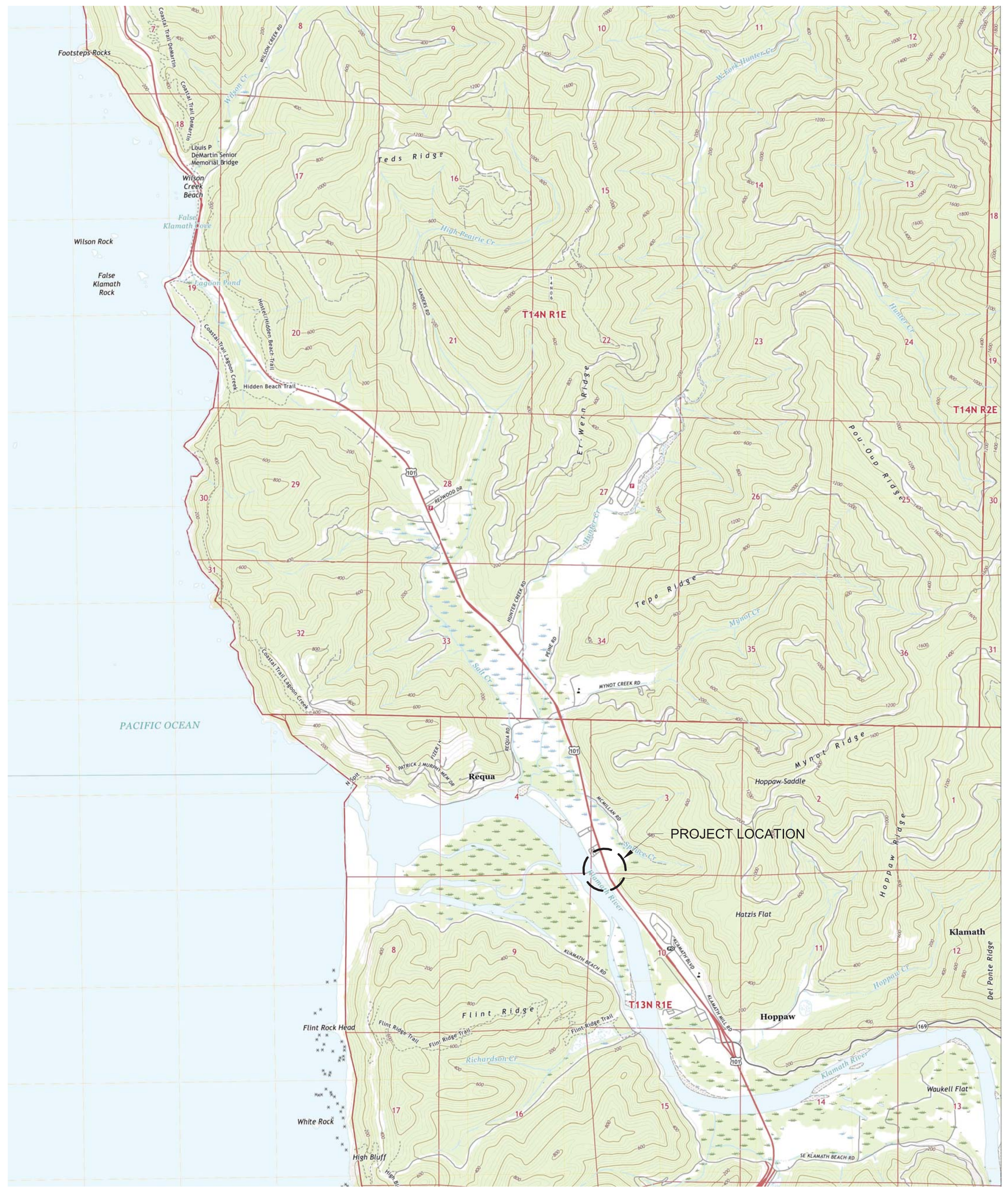
CONTRACTOR ALERT!

CONTRACTOR MUST CONTACT USA DIG AT 800-227-2600 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.

EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

AC	=	ASPHALTIC CONCRETE
AB	=	AGGREGATE BASE
A.D.	=	ALGEBRAIC DIFFERENCE
BC, PC	=	BEGIN CURVE
CO	=	CLEAN OUT
CL	=	CENTER LINE
CMP	=	CORRUGATED METAL PIPE
CPCT.	=	COMPACT
DET	=	DETAIL
DRN	=	DRAIN
(A)	=	EXISTING
EC	=	END CURVE
EG	=	EXISTING GROUND
EP	=	EDGE OF PAVEMENT
FF	=	FINISH FLOOR
FG	=	FINISH GRADE
FL	=	FLOW LINE
GA	=	GUY ANCHOR
GV	=	GATE VALVE
HC	=	HANDICAPPED
HDPE	=	HIGH DENSITY POLYETHYLENE PIPE
HF	=	HEM FIR
INV	=	INVERT
(INT-X)	=	INTERSECTION
LAT	=	LATERAL
LD.	=	LOCAL DEPRESSION
LF.	=	LINEAR FEET
LF.	=	SEWER LEACH FIELD
MAS.	=	MASONRY
MI	=	MILES
MIN.	=	MINIMUM
MSE	=	MECHANICALLY STABILIZED EARTH
(N)	=	NEW
NTS	=	NOT TO SCALE
O.C.	=	ON CENTER
PG&E	=	PACIFIC GAS & ELECTRIC
(P)	=	PROPOSED
PP	=	POWER POLE
PRC	=	POINT OF REVERSE CURVE
PT	=	PRESSURE TREATED
PVI	=	POINT OF VERTICAL INTERSECTION
PVT	=	PRIVATE
RT	=	RIGHT
RTN	=	RETURN
SB	=	SET BACK
SDMH	=	STORM DRAIN MAN HOLE
SHT	=	SHEET
SD	=	STORM DRAIN
STA	=	STATION
STD.	=	STANDARD
TC	=	TOP OF CURB
TBC	=	TOP BACK OF CURB
TFC	=	TOP FACE OF CURB
TOB	=	TOP OF BANK
TEL	=	TELEPHONE
TP	=	TOP OF PAVEMENT
TVCE	=	TRINITY VALLEY CONSULTING ENGINEERS
TW	=	TOP OF WALL
(TYP)	=	TYPICAL
UG	=	UNDERGROUND
W	=	WATER
WV	=	WATER VALVE



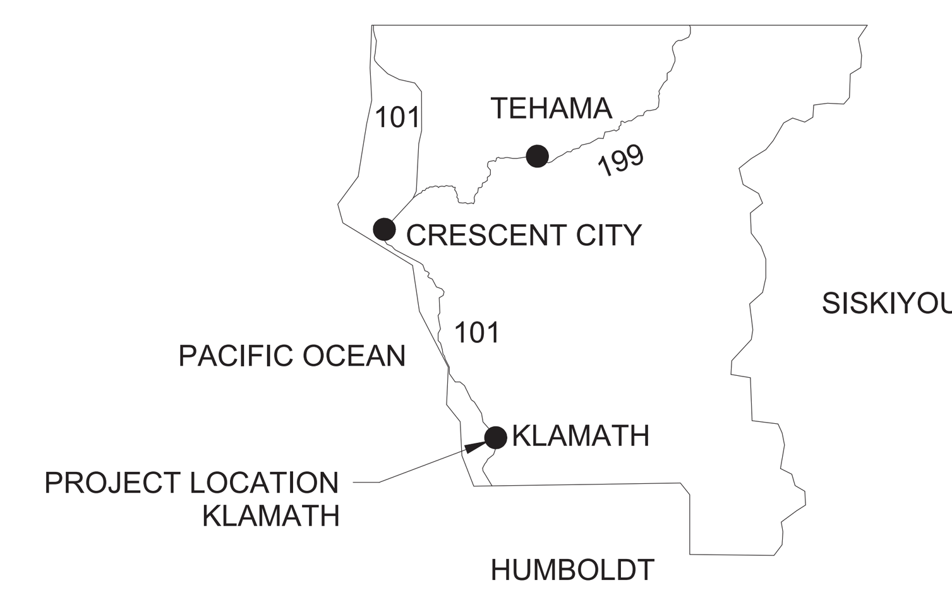
PLAN VIEW
SCALE: NTS

BUILDING NOTES

CONSTRUCTION TYPE: V-B
APPX. BUILDING HEIGHT: 31' - 0"
MAX. BUILDING HEIGHT: 40' - 0"
ALLOWABLE BUILDING AREA:
S2 = 14,000SF B = 18,000SF
STORIES: 2
SPRINKLER SYSTEM: N
FIRE ALARM & SMOKE DETECTION: Y

OCCUPANCY NOTES

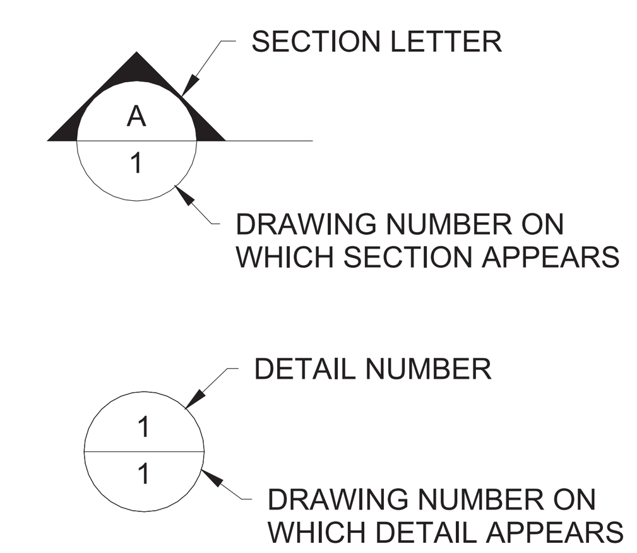
OCCUPANCY GROUP:
S-2 OCCUPANCY – FIRST STORY ONLY
B OCCUPANCY – STORIES 1 & 2
TOTAL BUILDING AREA: 4,979 SF
CONSTRUCTION TYPE: V
OCCUPANT LOAD: 47
CONSTRUCTION TYPE: V



VICINITY MAP
NTS

AREA MAP
NTS

SYMBOLS



SHEET INDEX

DRAWING #	TITLE	REV	DATE PRINTED
T100	TITLE SHEET	1	02/17/2026
G100	GENERAL FOUNDATION NOTES	1	02/17/2026
G101	GENERAL CONSTRUCTION NOTES	1	02/17/2026
F100	FOUNDATION PLAN	1	02/17/2026
F200	FOUNDATION DETAIL	1	02/17/2026
A100	ELEVATIONS	1	02/17/2026
A200	LEVEL 1 - FLOOR PLAN	1	02/17/2026
A201	LEVEL 2 - FLOOR PLAN	1	02/17/2026
A300	SCHEDULES & DETAILS	1	02/17/2026
A400	STANDARD ACCESSIBILITY DETAILS	1	02/17/2026
A401	ACCESSIBILITY - NOTES & DETAILS	1	02/17/2026
A402	ACCESSIBILITY - NOTES & DETAILS	1	02/17/2026
A403	ACCESSIBILITY - NOTES & DETAILS	1	02/17/2026
S100	LEVEL 1 - HEADERS & HARDWARE	1	02/17/2026
S200	LEVEL 2 - FLOOR FRAMING	1	02/17/2026
S201	LEVEL 2 - HEADER & HARDWARE	1	02/17/2026
S300	LEVEL 1 ROOF FRAMING PLAN	1	02/17/2026
S301	LEVEL 2 ROOF FRAMING PLAN	1	02/17/2026
S400	SECTION VIEWS	1	02/17/2026
S500	FRAMING DETAILS	1	02/17/2026
E100	GENERAL ELECTRICAL SPECIFICATION	1	02/17/2026
E101	GENERAL ELECTRICAL SPECIFICATION	1	02/17/2026
E102	GENERAL ELECTRICAL SPECIFICATION	1	02/17/2026
E200	LEVEL 1 - ELECTRICAL LAYOUT	1	02/17/2026
E201	LEVEL 2 - ELECTRICAL LAYOUT	1	02/17/2026
P100	GENERAL PLUMBING NOTES & DETAILS	1	02/17/2026
M100	GENERAL MECHANICAL SPECIFICATIONS	1	02/17/2026
M101	GENERAL MECHANICAL SPECIFICATIONS	1	02/17/2026
M102	GENERAL TAB SPECIFICATIONS	1	02/17/2026

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
TITLE SHEET

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: T100

1/2" 1" 2"

FOUNDATION
THE FOOTINGS SHOWN ON THE PLANS WERE DESIGNED BY TVCE. THE MAXIMUM ALLOWABLE BEARING CAPACITY IS 2000 PSF UNDER DEAD LOAD PLUS LIVE LOAD. THE ALLOWABLE BEARING PRESSURE IS PERMITTED A 1/3 INCREASE FOR LOAD COMBINATIONS THAT INCLUDE WIND AND SEISMIC LOADS. OVER EXCAVATION OF THE BUILDING PAD AREA IS REQUIRED TO REMOVE EXISTING LOOSE FILLS. IF APPLICABLE, SEE GEOTECHNICAL REPORT FOR OVER EXCAVATION AND COMPACTED FILL REQUIREMENTS.

CONCRETE MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" EXCEPT AS MODIFIED BY THESE CONSTRUCTION DOCUMENTS. THE CONCRETE FOOTINGS HAVE BEEN DESIGNED FOR A MINIMUM 28-DAY ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI PER CBC TABLE 1808.8.1

CONCRETE INGREDIENTS SHALL CONSIST OF WATER, TYPE II/V PORTLAND CEMENT, FINE AGGREGATE, COARSE AGGREGATE THAT'S INDICATED IN ALL THE TABLE BELOW, AND AIR-ENTRAINING ADMIXTURE WHEN REQUIRED. CLASS F FLY ASH MAY BE SUBSTITUTED FOR UP TO 20 PERCENT OF THE PORTLAND CEMENT, BY WEIGHT, PROVIDED A PROVEN MIX DESIGN IS SUBMITTED FOR THE ENGINEER'S REVIEW.

CONCRETE PROPORTIONS ARE DICTATED BY ITS END USE EXPOSURE. SEVERAL KEY FACTORS DETERMINING THE QUALITY ARE CEMENT CONTENT, WATER-CEMENT RATIO, AGGREGATE GRADING, AIR CONTENT, AND ADMIXTURES. THESE FACTORS ARE PRESENTED IN THE TABLE BELOW. THE TABULAR VALUES ARE BASED ON 1-INCH MAXIMUM COARSE AGGREGATE.

ADDITIONAL CONCRETE NOTES:

1. A SACK OF CEMENT WEIGHS 94 POUNDS. CEMENT CONTENTS MAY BE REDUCED BY 1/4 SACK FOR CONCRETE CONTAINING 1 1/2-INCH COARSE AGGREGATES.

2. THE W/C RATION IS THE WEIGHT OF WATER DIVIDED BY THE WEIGHT OF CEMENT PLUS POZZOLAN. AT THE JOBSITE WHEN THE SLUMP IS LESS THAN REQUIRED FOR PROPER PLACEMENT, WATER MAY BE ADDED TO THE MIX. THE MEASUREMENT OF THE SLUMP AND DETERMINATION FOR THE NEED OF ADDITIONAL WATER SHALL BE MADE AS SOON AS POSSIBLE AFTER THE TRUCK ARRIVAL. WATER CAN BE ADDED AT THE JOB SITE BUT ONLY IF IT CAN BE SHOWN ON A BATCH TICKET THAT THE AMOUNT OF WATER TO BE ADDED IS LESS THAN THAT TRIMMED AT THE PLANT. ADD WATER SHALL NOT EXCEED 2 GALLONS PER CUBIC YARD OF CONCRETE. INSUFFICIENT SLUMP AFTER THE MAXIMUM ADDITION OF ADD WATER SHALL BE CAUSE FOR REJECTION. AT ANY TIME, IF THE SLUMP IS EXCESSIVE THE CONCRETE IS SUBJECT TO REJECTION. IF ADD-WATER INCREASES THE W/C RATIO ABOVE THE TABLE W/C RATIO THE CONCRETE SHALL BE REJECTED.

3. THE TOTAL AIR CONTENT IS MEASURED IN THE CONCRETE AS DEPOSITED IN THE FORMS. THE AIR CONTENT SHALL BE ACHIEVED SOLELY BY THE ADDITION OF AN AIR ENTRAINING ADMIXTURE (AEA).

4. TESTING (A) IS THREE TEST CYLINDERS FOR EACH 150 YARDS OR LESS OF CONCRETE PER DAY; (B) IS THREE CYLINDERS FOR EACH 100 YARDS OR LESS OF CONCRETE PER DAY;(C) IS SLUMP, TEMPERATURE, AND AIR CONTENT OF THE FIRST TRUCK; FROM ALL TRUCKS IN WHICH THE CONCRETE SEEMS TO VARY FROM THE ACCEPTABLE MIX; AND FROM THE TRUCKS FROM WHICH THE TEST CYLINDERS ARE TAKEN.

FOOTINGS

1. FOOTINGS ARE REQUIRED TO BE A MINIMUM OF 12" BELOW UNDISTURBED GROUND SURFACE, 12" WIDE, 6" FOOTING THICKNESS AND A 6" STEM WALL THICKNESS FOR ONE STORY. FOOTING AND FOUNDATIONS SHALL COMPLY WITH CRC R403 FOOTINGS, CRC R404 FOUNDATION AND RETAINING WALLS, AND ALL APPLICABLE REFERENCED SUBSECTIONS AND TABLES.

2. CONCRETE SLABS SHALL BE A MINIMUM 3.5" THICK. CRC R501.6

3. CONCRETE SLABS SHALL BE SEPARATED FROM EARTH BY A MINIMUM 6-MIL VAPOR RETARDER, WITH EDGES LAPPED A MINIMUM OF 6". EXCEPTIONS: GARAGES, UTILITY BUILDING, DRIVEWAYS, WALKS, PATIOS. UNHEATED: ACCESSORY STRUCTURES, STORAGE ROOMS LESS THAN 70 SQUARE FEET. CRC R506.2.3

4. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO ENSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24 INCHES (610 MM) FOR CLEAN SAND OR GRAVEL AND 8 INCHES (203 MM) FOR EARTH. CRC 506.2.1

5. HORIZONTAL REINFORCING AT FOOTING AND STEM WALL-ONE #4 REBAR WITHIN THE TOP 12" OF STEM WALL AND ONE #4 REBAR 3" FROM BOTTOM OF FOOTING. CRC R403.1.3, PER FIGURE R403.1.3 AND R403.1.3.5, REINFORCEMENT. D83PER R403.1.3.5.1 THROUGH R403.1.3.5.4.

6. WHERE A CONSTRUCTION JOINT IS CREATED BETWEEN A CONCRETE FOOTING AND A CONCRETE STEM WALL, NOT FEWER THAN ONE NO. 4 VERTICAL BAR SHALL BE INSTALLED AT MORE THAN 4 FEET ON CENTER. THE VERTICAL BAR SHALL HAVE A STANDARD HOOK AND EXTEND TO THE BOTTOM OF THE FOOTING AND SHALL HAVE SUPPORT AND COVER AS SPECIFIED IN CRC R403.1.3.1 CONCRETE STEM WALLS WITH CONCRETE FOOTINGS, AND SECTION R403.1.3.5.3 AND EXTEND NOT LESS THAN 14 INCHES INTO THE STEM WALL. STANDARD HOOKS SHALL COMPLY WITH SECTION R608.5.4.5. NOT FEWER THAN ONE NO. 4 HORIZONTAL BAR SHALL BE LOCATED 3 TO 4 INCHES FROM THE BOTTOM OF THE FOOTING.

7. ANCHOR BOLTS FOR SILL PLATES SHALL BE MINIMUM 5/8"X 10" MIN. 7" EMBEDDED, MAX 6' ON CENTER, OR APPROVED ANCHOR STRAPS. THE BOLTS SHALL BE IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. NOT FEWER THAN TWO BOLT BOLTS PER PLATE SECTION WITH ONE BOLT NOT LESS MORE THAN 12 INCHES AND OR LESS THAN 7 BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION (4 3/8" FOR 5/8" DIA. BOLT). PROVIDE 3"X 3"X 0.229" SQUARE PLATE WASHERS ON EACH BOLT. CRC R403.1.6, CRC R602.11.1

8. UNDERFLOOR VENTILATION. MINIMUM NET AREA OF VENTILATION OPENINGS SHALL BE NOT LESS THAN 1 SQUARE FOOT FOR EACH 150 SQUARE FEET OF UNDER-FLOOR AREA. ONE OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. OPENINGS SHALL BE COVERED FOR THEIR HEIGHT AND WIDTH THAT THE LEAST DIMENSION OF THE COVERING SHALL NOT EXCEED 1/4 INCH (6.4 MM): CRC R408 UNDER FLOOR SPACE. INCLUDING ALL APPLICABLE REFERENCED SECTION, SUBSECTIONS, AND TABLES.

9. UNDERFLOOR ACCESS. OPENINGS THROUGH A PERIMETER WALL SHALL BE NOT LESS THAN 16 INCHES BY 24 INCHES. NO UNDER-FLOOR PLUMBING CLEANOUT SHALL BE LOCATED EXCEEDING 5 FEET FROM AN ACCESS DOOR, TRAP DOOR, OR CRAWL HOLE. AN UNDER-FLOOR SPACE IN WHICH AN APPLIANCE IS INSTALLED SHALL BE ACCESSIBLE THROUGH AN OPENING AND PASSAGEWAY NOT LESS THAN THE LARGEST COMPONENT OF THE APPLIANCE AND NOT LESS THAN 22 INCHES BY 30 INCHES. CRC R408.4, CPC 707.9, CMC 304.4.

CONCRETE NOTES

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3000 PSI AND SHALL BE A MINIMUM OF A FIVE SACK MIX WITH NO MORE THAN SEVEN GALLONS OF WATER PER CUBIC YARD..

2. ALL CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150# /CF). MAXIMUM AGGREGATE SIZE FOR SLABS ON GRADE TO BE 3/4" AND 11/2" FOR FOUNDATIONS. AGGREGATE SHALL CONFORM TO ASTM C-33. CEMENT SHALL CONFORM TO C-150 (TYPE II), UNLESS ALKALINE SOILS. WATER-REDUCING ADMIXTURES, RETARDING ADMIXTURES, ACCELERATING ADMIXTURES, WATER-REDUCING AND RETARDING ADMIXTURES, AND WATER-REDUCING AND ACCELERATING ADMIXTURES SHALL CONFORM TO 'SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE' (ASTM C 494).

3. SLABS, BEAMS, WALLS AND OTHER CONCRETE SHALL BE KEPT CONTINUOUSLY WET FOR 48 HOURS AFTER PLACEMENT AND SHALL BE KEPT DAMP FOR 7 DAYS AFTER PLACEMENT. SLABS SHALL HAVE CURE /SEALER APPLIED IMMEDIATELY AFTER FINISHING IF OTHER FINISHES ARE NOT AFFECTED SUPERIMPOSED LOADS SHALL NOT BE APPLIED TO ELEVATED STRUCTURAL MEMBERS OR WALLS PRIOR TO 7 DAYS MINIMUM AFTER CONCRETE HAS REACHED DESIGN STRENGTH. RESHORING SHALL REMAIN IN PLACE 28 DAYS MINIMUM, AT NO TIME DURING A RESHORING PROCESS SHALL THE CONCRETE MEMBER BE UNSUPPORTED.

4. CONCRETE SHALL NOT FREE FALL MORE THAN SIX FEET.

5. KEYED CONSTRUCTION JOINTS SHALL BE USED IN ALL CASES. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED AND ALL LAITENCE SHALL BE REMOVED. ALL VERTICAL JOINTS SHALL BE THOROUGHLY WETTED AND SLUSHED WITH A COAT OF NEAT CEMENT IMMEDIATELY BEFORE PLACING NEW CONCRETE.

6. PROVIDE CONTROL JOINTS PER PLAN AND /OR EVERY 20 FEET MAX. ON CENTER. FILL WITH APPROVED CAULKING.

7. PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS AND COLUMNS U.N.O.

8. ANCHOR BOLT SIZES SHALL BE PER THE BUILDING PLANS WITH 7" EMBEDMENT AND (1) 3X3 WASHER 3/16" THICK. ANCHOR BOLTS SHALL BE LOCATED 4' O.C. AND 12" MAX. FROM EDGE WITH A MIN. (2) PER SILL PLATE 12" MAX. FROM EDGE.

TABLE OF CONCRETE PROPORTIONS

END USE OF CONCRETE	TEST S (4)	MIN. SACKS OF CEMENT PER C.Y. (1)	MIN. 28-DAY COMPRESSION STRENGTH PSI	MAX. W/C RATION BY WEIGHT (2)	TOTAL AIR CONTENT (3)	SLUMP	WRDA	SUPER PLASTICIZER
SLABS	A, C	6	3000	.45	--	3-5	YES	--
FOOTINGS BELOW GRADE	A, C	5.5	3000	.50	--	3-5	--	--

AGGREGATES FINE AND COARSE AGGREGATES SHALL CONFORM TO ASTM C33. COARSE AGGREGATE SHALL BE TYPICALLY 1 1/2" EXCEPT THAT 1-INCH AGGREGATE MAY BE USED FOR SLABS AND WALLS THINNER THAN 10 INCHES AND FOR ALL PUMPED CONCRETE UNLESS OTHERWISE APPROVED BY THE ENGINEER. 1 1/2-INCH AGGREGATE SHALL NOT BE USED FOR SLABS THINNER THAN 7 INCHES, FOR WALLS THINNER THAN 10 INCHES, NOR COLUMNS LESS THAN16 INCHES IN DIAMETER.

AGGREGATES AND SAND SHALL BE FREE OF MATERIALS THAT ARE SUSCEPTIBLE TO ALKALI-AGGREGATE REACTIVITY (ALKALI-SILICA REACTIVITY AND ALKALI-CARBONATE REACTIVITY).

GRADING OF COMBINED FINE AND COARSE AGGREGATES SHALL FALL WITHIN THE FOLLOWING LIMITS:

PERCENTAGE PASSING BY WEIGHT		
SIEVE NUMBER OR SIZE IN INCHES	1 1/2-INCH MAXIMUM	1-INCH MAXIMUM
PASSING A 2-INCH	--	--
PASSING A 1 1/2-INCH	90-100	--
PASSING A 1-INCH	50-86	90-100
PASSING A 3/4-INCH	45-75	55-100
PASSING A 3/8-INCH	38-55	45-75
PASSING A NO. 4	30-45	35-60
PASSING A NO. 8	23-38	27-45
PASSING A NO. 16	17-33	20-35
PASSING A NO. 30	10-22	12-25
PASSING A NO. 50	4-10	5-15
PASSING A NO. 100	1-6	1-8
PASSING A NO. 200	0-3	0-4

PLACEMENT PRACTICES ARE REQUIRED TO BE IN ACCORDANCE WITH ACI 305 FOR HOT WEATHER AND ACI 306 FOR COLD WEATHER. CONCRETE THAT HAS BEEN BATCHED FOR MORE THAN TWO HOURS IN COLD WEATHER AND ONE AND ONE-HALF HOURS IN HOT WEATHER BEFORE BEING PLACED SHALL AUTOMATICALLY BE REJECTED. CONCRETE SHALL NOT FREE FALL MORE THAN (6) FEET. CONCRETE SHALL BE PLACED USING A TREMIE TUBE OR PUMP HOSE IF STANDING WATER IS PRESENT AND PRIOR TO APPROVAL FROM THE ENGINEER IS OBTAINED.

CONSOLIDATION OF FORMED CONCRETE AND CONCRETE CONTAINING ANCHOR BOLTS, REBAR AND OTHER EMBEDMENT'S SHALL BE ACCOMPLISHED WITH A CONCRETE VIBRATOR. THE SIZE OF THE VIBRATOR SHALL BE SUFFICIENT TO ADEQUATELY CONSOLIDATE THE CONCRETE. TREMIE CONCRETE SHALL NOT BE VIBRATED.

FINISH OF AN INTERIOR SLAB SHALL BE SMOOTH TROWELED EXCEPT WHERE A NON-SLIP SURFACE IS REQUIRED A FINE BROOM FINISH SHALL BE PROVIDED. EXTERIOR SLABS SHALL BE GIVEN A MEDIUM BROOM FINISH.

CURING OF ALL CONCRETE SHALL BE CONTINUOUS FOR AT LEAST 7 DAYS BEGINNING IMMEDIATELY AFTER COMPLETION OF FINISHING. WET CURING OF SLABS USING DAMP BURLAP OR BURLEEN IS REQUIRED. CURING TIME AND PROCEDURES SHALL BE ADJUSTED TO SUIT HOT AND COLD WEATHER CONDITIONS. CURING COMPOUNDS SHALL NOT BE USED ON FLOOR SLABS OR ON CONCRETE SURFACES WHICH ARE TO BE PAINTED, SEALED OR WATERPROOFED. OR WHICH WILL RECEIVE ADHESIVE OR MORTAR BONDED FINISHES OR ON CONCRETE SURFACES EXPOSED TO VIEW WHERE THE CURING COMPOUND WOULD BE OBJECTIONABLE. FORMED WALLS SHALL NOT BE STRIP FOR AT LEAST 7 DAYS AS A METHOD OF CURING THE WALL. KEEP TOP EXPOSED PORTION OF WALL COVERED AND DAMP FOR 7 DAYS MINIMUM.

FORMED SURFACES EXPOSED AFTER CONSTRUCTION SHALL BE UNIFORMLY FLAT AND FREE OF SURFACE DEFECTS SUCH AS BUG HOLDS, FORM BOARD JOINTS, ROCK POCKETS, ETC. FLATNESS TOLERANCE SHALL BE 1/8-INCH BETWEEN ANY TWO POINTS IN 10 FEET. LINE SHALL BE WITHIN 1/4-INCH IN 50 FEET. EXPOSED SURFACES THAT ARE NOT ACCEPTABLE SHALL BE CORRECTED OR REPLACED AS DIRECTED BY THE ENGINEER.

BACKFILL AND OTHER STRUCTURAL LOADING SHALL NOT BE PLACED AGAINST ANY CONCRETE UNTIL SUCH TIME AS THE CONCRETE HAS ATTAINED ITS 28-DAY STRENGTH.

REINFORCING BARS SHALL MEET ASTM A615 GRADE 60 REQUIREMENTS FOR NO. 4 BARS AND LARGER, AND GRADE 400R GRADE 60 REQUIREMENTS FOR SMALLER BARS, EXCEPT THAT BARS WHICH REQUIRE WELDING SHALL MEET ASTMA706 REQUIREMENTS. ALL SPLICES SHALL BE LAP SPLICES WITH LAP LENGTHS AND SPACING CONFORMING TO THE STANDARD DETAILS, U.N.O. WELDING OF REINFORCING BARS SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.4AND WILL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE PLANS AND CONTINUOUSLY INSPECTED BY THE ENGINEER. BEAM, COLUMN, AND VERTICAL WALL REINFORCEMENT SHALL NOT BE SPLICED, EXCEPT AT THE 1/4 SPAN LOCATIONS WHEN NECESSARY OR UNLESS SHOWN OTHERWISE ON THE PLANS.

WATER VAPOR RETARDER SHALL BE PLACED UNDER ALL INTERIOR CONCRETE SLABS UNLESS NOTED OTHERWISE AND SHALL BE A 15-MIL. MINIMUM THICK FILM. THE VAPOR RETARDER SHALL COMPLY WITH ASTM E-1745 CLASS A, WITH A PERMEANCE RATING LESS THAN 0.01 US PERMS. STEGO WRAP BY STEGO INDUSTRIES MOISTOP ULTRA 15 BY FORTIFIBER, VAPOR BLOCK 15 BY RAVEN INDUSTRIES, OR APPROVED EQUAL. LAP THE ENDS AND EDGES OF THE SHEETS 6-INCHES MINIMUM AND TAPE ALL SEAMS PER THE VAPOR RETARDER'S MANUFACTURER'S RECOMMENDATIONS. SEAL ALL PENETRATIONS PER THE VAPOR RETARDER'S MANUFACTURER'S RECOMMENDATIONS. CARE SHALL BE TAKEN NOT TO PUNCTURE THE VAPOR RETARDER DURING AND AFTER INSTALLATION. COMPACTED 3/4-INCH AGGREGATE BASE SHALL BE PLACED UNDER THE VAPOR RETARDER. BASE WITH CRUSHED AGGREGATE SHALL BE COVERED WITH A THIN LAYER (1/2-INCH) SAND TO SEPARATE THE VAPOR BARRIER FROM THE AGGREGATE BASE. THE CONCRETE SLAB SHALL BE PLACED DIRECTLY ON THE VAPOR RETARDER. NO SAND OR OTHER MATERIAL IS ALLOWED BETWEEN THE VAPOR RETARDER AND CONCRETE SLAB.

SLAB FLATNESS TOLERANCE SHALL BE 3/8-INCH IN 5 FEET AND 1/2-INCH IN 10 FEET WHERE THE 3/8- AND 1/2-INCH DIMENSIONS ARE THE MAXIMUM DIFFERENCES OVER THEIR RESPECTIVE LENGTHS. FLATNESS TOLERANCES UNDERWOOD FRAME WALLS SHALL MEET THE REQUIREMENTS FOR MUDSILLS IN WOOD FRAME CONSTRUCTION.

DRY PACK MORTAR - PRE-MIXED PREPARED PORTLAND CEMENT MORTARS, WHICH REQUIRE ONLY THE ADDITION OF WATER AND ARE USED IN THE INSTALLATION OF CERAMIC TILE, SHALL COMPLY WITH ANSI A118.1. THE SHEAR BOND STRENGTH FOR TILE SET IN SUCH MORTAR SHALL BE AS REQUIRED IN ACCORDANCE WITH ANSI A118.1. TILE SET IN DRY-SET PORTLAND CEMENT MORTAR SHALL BE INSTALLED IN ACCORDANCE WITH ANSI A108.5.

NON-SHRINK GROUT IS REQUIRED FOR: BASE PLATES AND SILL PLATES WITH LESS THAN 1/2-INCH HEIGHT BETWEEN THE ITEM TO BE SUPPORTED AND THE SUBSTRATE; ITEMS WHICH ARE NOT ACCESSIBLE FOR DRY PACKING FROM TWO OPPOSING SIDES; ITEMS WITH BASE PLATES WHERE THE SMALLEST DIMENSION IS GREATER THAN 24 INCHES; EQUIPMENT OR OTHER SUPPORTS SUBJECT TO VIBRATORY LOADS; AND WHERE NOTED ON THE PLANS. THE NON-SHRINK GROUT FOR HEAVY VIBRATORY LOADS SHALL BE EMBECO 858 GROUT MANUFACTURED BY BASF; HI-FLOW METALLIC GROUT MANUFACTURED BY EUCLID CHEMICAL CO.; OR EQUAL. NON-SHRINK GROUT FOR OTHER APPLICATIONS SHALL BE MASTERFLOW 928 GROUT, MANUFACTURED BY BASF; HI-FLOW GROUT, MANUFACTURED BY ELUCID CHEMICAL CO., OR EQUAL.

NON-SHRINK GROUT SHALL BE CONTAINED BY SUITABLE RIGID FORMS. THE GROUT SHALL BE FLUID OR FLOWABLE DEPENDING ON WHICH IS THE MORE SUITABLE FOR THE PARTICULAR SITUATION. THE SURFACE PREPARATION, MIXING, APPLICATION, AND CURING OF THE GROUT SHALL CONFORM TO THE MANUFACTURER'S INSTRUCTIONS.

EXPANSION JOINT FILLER FOR EXPANSION JOINTS IN FLOOR SLABS SHALL BE 1/2-INCH THICK ASPHALT IMPREGNATED FIBER BOARD MEETING ASTM D-1751, SUCH AS FIBER EXPANSION JOINT BY WR MEADOWS; OR EQUAL. APPLY REMOVABLE CAP TO EXPOSED EDGE OF JOINT FILLER, WHERE APPLICABLE, PRIOR TO INSTALLATION.

REMOVABLE CAP FOR CREATING A VOID FOR SEALANT SHALL BE SNAP-CAP BY WR MEADOWS; OR EQUAL. THE STRIP SHALL CONSIST OF A PERMANENT CAP WHICH FITS OVER THE JOINT FILLER, AND AN UPPER ATTACHED BUT REMOVABLE CAP PIECE THAT IS LIFTED OFF THE LOWER CAP PIECE AFTER THE CONCRETE IS CURED. THE REMAINING JOINT FILLER CAP SERVES AS A SEALANT BOND BREAKER. THE ENTIRE CAP IS APPLIED TO THE EXPANSION JOINT FILLER PRIOR TO ADHERING IT TO THE CONCRETE SURFACE.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL FOUNDATION NOTES

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: G100

1/2" 1" 2"

CONTRACTOR REQUIREMENTS

DIMENSIONS SHALL BE CHECKED BY THE CONTRACTOR PRIOR TO CONSTRUCTION BETWEEN THE ARCHITECTURAL PLANS AND OTHER PLANS. VERIFY EXISTING DIMENSIONS PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER FOR RESOLUTION.

TEMPORARY BRACING OF THE BUILDING DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. SUCH BRACING SHALL ACCOUNT FOR MATERIAL STOCKPILE LOADS, REMOVAL OF EXISTING SUPPORT AND LOADS, FROM EQUIPMENT AND METHODS EMPLOYED DURING CONSTRUCTION. THE BUILDING SHALL ALSO BE ADEQUATELY BRACED TO WITHSTAND ANY WIND LOADS, SEISMIC, AND SNOW LOADS WHICH MIGHT OCCUR DURING CONSTRUCTION UNTIL THE PERMANENT STRUCTURAL FRAMING SYSTEM, INCLUDING BUT NOT LIMITED TO ALL DIAPHRAGMS, SHEAR WALLS, BRACINGS, ECT., IS COMPLETED.

GRADING & SITE IMPROVEMENT

1. ALL GRADING, EXCAVATION, EROSION, AND SEDIMENTATION CONTROL IN CONFORMANCE WITH COUNTY CODE SECTION 331-14 AND 2022 CBC.
2. CUT SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTALS TO 1 VERTICAL.
3. FILL SLOPES SHALL BE NO STEEPER THAN 2 HORIZONTALS TO 1 VERTICAL AND SHALL HAVE NOT LESS THAN 90% COMPACTION OUT TO THE FINISHED SURFACE.
4. COMPACTION OF ALL FILLS SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY WITH SUFFICIENT TESTING FOR DOCUMENTATION OF COMPLIANCE WITH THIS STANDARD.

EXTERIOR WILDLIFE EXPOSURE

1. BUILDING TO BE IN CONFORMANCE WITH CBC 7A
2. DEFENSIBLE SPACE MUST BE SIGNED OFF PRIOR TO FINAL INSPECTION.
3. EXTERIOR SIDING. HARDY-PANEL SIDING. OR SEE APPROVED PRODUCTS. EXTERIOR WALLS SHALL BE IGNITION RESISTANT CONSTRUCTION IN COMPLIANCE WITH CBC 707A.3 AND SFM STANDARD 12-7A-5 (2) FIRE-RETARDANT-TREATED WOOD. FIRE-RETARDANT-TREATED WOOD IDENTIFIED FOR EXTERIOR USE THAT COMPLIES WITH THE REQUIREMENTS OF SECTION 2302.2 CBC--FIRE-RETARDANT-TREATED WOOD. FIRE-RETARDANT-TREATED WOOD IS ANY WOOD PRODUCT WHICH, WHEN IMPREGNATED WITH CHEMICALS BY A PRESSURE PROCESS OR OTHER MEANS DURING MANUFACTURE, SHALL HAVE, WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723, A LISTED FLAME SPREAD INDEX OF 25 OR LESS AND SHOW NO EVIDENCE OF SIGNIFICANT PROGRESSIVE COMBUSTION WHEN THE TEST IS CONTINUED FOR AN ADDITIONAL 20-MINUTE PERIOD. ADDITIONALLY, THE FLAME FRONT SHALL NOT PROGRESS MORE THAN 101/2 FEET BEYOND THE CENTERLINE OF THE BURNERS AT ANY TIME DURING THE TEST.
4. EXTERIOR WALL VENTS 1/8" SCREEN. CBC 706A.
5. EXTERIOR DOORS TO BE NON- COMBUSTIBLE CONSTRUCTION, OR 1-3/8" SOLID CORE, OR 20-MINUTE FIRE RATED. CBC 708A.3.
6. WINDOWS MINIMUM ONE PANE TEMPERED CBC 708A.2.1.
7. DECKING SURFACES APPROVED PRODUCT. CBC 709A.
8. VEGETATION MANAGEMENT COMPLIANCE. CBC 701A.5, CFC 4906, CRC337.1.5.
9. EAVE AND SOFFIT VENTS MUST BE FIRE RATED TO PRECLUDE EMBER AND FLAME ENTRANCE CBC 706A.
10. UNDERSIDE OF EAVES SHALL BE IGNITION RESISTANT OR NON-COMBUSTIBLE. CBC 706A.2.
11. ROOF GUTTERS SHALL BE PROVIDED WITH A MEANS TO PREVENT THE ACCUMULATION OF LEAVES. CBC 705A.4.
12. DECK FRAMING TO BE MINIMUM 6X6 PT. POSTS, AND MINIMUM 6X8 PT. GIRDERS.

WOOD FRAME CONSTRUCTION

U.N.O., FRAMING LUMBER IS TO BE DOUGLAS FIR S4S GRADED AS NOTED BELOW (WWPA GRADING RULES) UNLESS OTHERWISE NOTED OR SHOWN. HIGHER GRADES OF WOOD THAN INDICATED BELOW MAY BE USED AT THE ELECTION OF THE CONTRACTOR TO MINIMIZE TWISTING, WARPING, ETC. BEAMS AND STRINGERS

4X.....NO. 2
6X.....NO. 1
JOISTS, RAFTERS & LEDGERS,2X AND 4X.....NO. 2
POSTS AND TIMBERS.....NO. 1
STUDS, SILLS & PLATES
STUD 2X4.....NO. 2
2X6.....NO. 2
2X8 AND LARGER.....NO. 1
MISC. FRAMING LUMBER NOT NOTED.....NO. 2

LUMBER MOISTURE CONTENT SHALL BE BELOW 19% PRIOR TO INSTALLATION. REDWOOD LUMBER: 4X, 6X, AND 8X REDWOOD STRUCTURAL MEMBERS SHALL BE STRUCTURALLY GRADED NO. 1. OTHER MEMBERS SHALL BE ARCHITECTURAL B GRADE.

MUDSILLS, PLATES, LEDGERS, AND OTHER WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY SURFACES SHALL BE AWPB GRADE STAMPED PRESSURE TREATED WOOD. DOUGLAS FIR IS THE REQUIRED SPECIES FOR PRESSURE TREATING. THE PRESERVATIVE TYPE AND RETENTION SHALL MEET THE AWPA STANDARD C2 FOR ABOVEGROUND USE. THE TREATED WOOD SHALL BEAR THE AWPB QUALITY ASSURANCE MARK. PRESSURE TREATED MUDSILLS, PLATES, LEDGERS, AND OTHER MEMBERS SHALL HAVE ALL DRILLED HOLES AND CUT ENDS IN CONTACT WITH CONCRETE OR MASONRY TREATED WITH CUPRINOL OR OTHER SUITABLE CHEMICAL COMPATIBLE WITH THE PRESERVATIVE.

SET ALL MUDSILLS, PLATES, ETC. TO PROPER GRADE. THE FOUNDATION MAY DEVIATE FROM A STRAIGHT GRADE PLUS OR MINUS 1/8 INCH FOR BEARING WALLS AND PLUS OR MINUS 1/4 INCH FOR ALL OTHER WALLS.

TIMBER CONNECTORS SHALL BE SIMPSON STRONG-TIE UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. CONNECTORS SHALL BE THE MAXIMUM SIZE AND NUMBER OF FASTENERS AS SHOWN IN THE LATEST CATALOG UNLESS NOTED OTHERWISE ON THE PLANS ("MAX" NAILING U.N.O., INCLUDING TRIANGULAR HOLES). COATING SHALL BE HOT-DIPPED GALVANIZED OR ZMAX WHEN IN CONTACT WITH PRESSURE-TREATED WOOD.

BOLTS IN WOOD SHALL BE A307 MILD STEEL UNFINISHED MACHINE BOLTS IN INTERIOR LOCATIONS AND ZINC PLATED BOLTS SHALL BE USED FOR ALL OTHER CONNECTIONS EXCEPT HOT DIPPED GALVANIZED BOLTS (AND WASHERS) SHALL BE PROVIDED FOR PRESSURE TREATED LUMBER CONNECTIONS. WASHERS SHALL HAVE THE SAME CORROSION RESISTANCE AS THE BOLT. HOLES IN WOOD MEMBERS SHALL BE 1/16" LARGER THAN BOLT DIAMETER.RE-TIGHTEN ALL BOLTED CONNECTIONS PRIOR TO FINAL USE OR COVERING UP. LEDGERS AND MUDSILLS SHALL HAVE AT LEAST ONE BOLT (OR MORE IF REQUIRED ON PLANS) AT EACH END OF EACH MEMBER LOCATED NOT CLOSER THAN 6 INCHES AND NOT FARTHER THAN 9 INCHES FROM THE END. ALL OTHER BOLTS SHALL BE SPACED AS SHOWN ON PLANS.

WASHERS PLATE WASHERS, NOT LESS THAN 0.229 INCH BY 3 INCHES BY 3 INCHES (5.8 MM BY 76 MM BY 76 MM) IN SIZE, SHALL BE PROVIDED BETWEEN THE FOUNDATION SILL PLATE AND THE NUT EXCEPT WHERE APPROVED ANCHOR STRAPS ARE USED. THE HOLE IN THE PLATE WASHER IS PERMITTED TO BE DIAGONALLY SLOTTED WITH A WIDTH OF UP TO 3/16 INCH (5 MM) LARGER THAN THE BOLT DIAMETER AND A SLOT LENGTH NOT TO EXCEED 13/4 INCHES (44 MM), PROVIDED A STANDARD CUT WASHER IS PLACED BETWEEN THE PLATE WASHER AND THE NUT.

WOOD SCREWS SHALL BE ZINC PLATED STEEL. PROVIDED THE SIZE SHOWN ON THE PLANS. FULL DEPTH LEAD HOLES ARE REQUIRED OF THE SCREWS ROOT DIAMETER. THE SCREW MUST PENETRATE AT LEAST SEVEN SHANK DIAMETERS INTO THE SUPPORTING MEMBER U.N.O.

SELF-DRILLING WOOD SCREWS (SDWS) SHALL CONFORM WITH THE ABOVE PROVISIONS FOR WOOD SCREWS EXCEPT AS FOLLOWS: SCREWS SHALL HAVE A BUGLE HEAD THAT WILL DRIVE FLUSH WITH THE SURFACE; LEAD HOLES MAY BE OMITTED IF SPLITTING OF THE WOOD IS NOT ENCOUNTERED; SCREWS SHALL BE MANUFACTURED BY MCFEELY'S, BUILDEX, OR EQUAL.

SCREWS INSTALLED IN PRESSURE TREATED WOOD OR REDWOOD SUBJECT TO MOISTURE SHALL BE 18-8 STAINLESS-STEEL. NON-MOISTURE EXPOSURE IN THESE SPECIES OF WOOD SHALL UTILIZE MCFEELY'S NO-CO-RODES OR BUILDEX DECK-KING CLIMACOTE SCREWS. ALL OTHER SCREWS SHALL BE ZINC PLATED STEEL.

PLATE CONNECTED WOOD TRUSSES ARE TO BE DESIGNED BY THE TRUSS MANUFACTURER. THE TRUSS DESIGN SHALL BE IN ACCORDANCE WITH THE CURRENT RECOMMENDED DESIGN PRACTICE OF THE TRUSS PLATE INSTITUTE, CBC SECTION 2303.4, AND THE PLANS. THE TRUSS MANUFACTURER WILL SUBMIT A PRELIMINARY TRUSS DESIGN AND LAYOUT PLAN TO THE ENGINEER FOR USE IN THE STRUCTURAL DESIGN OF THE BUILDING. THE CONTRACTOR OR OWNER WILL RETURN TO THE TRUSS MANUFACTURER HIS PRELIMINARY DESIGN INFORMATION PLUS ANY ADDITIONAL INFORMATION NECESSARY FOR USE IN THE PREPARATION OF THE FINAL DESIGN OF THE TRUSSES. THE TRUSS MANUFACTURER SHALL PROVIDE FINAL PLANS, DETAILS AND STRUCTURAL CALCULATIONS FOR THE TRUSSES INCLUDING DESIGN OF ALL NECESSARY WEB AND CHORD BRACING. THE TRUSS MANUFACTURER SHALL SUBMIT THE FINAL DESIGN DOCUMENTS THAT ARE PREPARED AND STAMPED AND SIGNED BY A LICENSED CALIFORNIA CIVIL ENGINEER TO THE ENGINEER FOR HIS REVIEW.

ROOF SHEATHING AND CEILING FINISH (IF OCCURRING) ARE INTENDED TO PROVIDE THE PERMANENT LATERAL SUPPORT FOR THE TOP AND BOTTOM CHORDS RESPECTIVELY. THE TRUSS MANUFACTURER SHALL NOTE ON THE SHOP DRAWINGS IF THESE ARE NOT SUFFICIENT. WHERE CEILINGS ARE NOT APPLIED TO BOTTOM CHORD, ADD BRACING PER TRUSS ENGINEERING. ERECTION BRACING IS TO BE FURNISHED AND INSTALLED BY THE ERECTION CONTRACTOR. THE ERECTION CONTRACTOR IS SOLELY RESPONSIBLE FOR THE TEMPORARY LATERAL BRACING OF THE TRUSSES UNTIL THE PERMANENT ROOF AND CEILING MATERIALS ARE COMPLETELY INSTALLED AND IS ALSO RESPONSIBLE TO PLACE COMPRESSION WEB AND CHORD LATERAL BRACING CALLED FOR BY THE TRUSS MANUFACTURER.

ENGINEERING CALCULATIONS FOR VAULTED TRUSSES SHALL DEMONSTRATE THAT EACH TRUSS HAS A COMBINED HORIZONTAL MOVEMENT FOR BOTH ENDS OF LESS THAN 3/4-INCH FOR THE DEAD LOAD PLUS LIVE LOAD.

ROOF, FLOORS AND WALL SHEATHING

1. SHALL BE PLYWOOD (NO OSB) AND SHALL COMPLY WITH PS-1, PS-2, OR APAPRP-108. EXPOSURE DURABILITY SHALL BE EITHER EXTERIOR OR EXPOSURE 1 UNLESS OTHERWISE SPECIFIED OR SHOWN. MOISTURE CONTENT SHALL BE LESS THAN 19% AT TIME OF FABRICATION. SPAN RATING, THICKNESS, AND NUMBER OF PILES SHALL BE SHOWN ON THE PLANS. ROOF SHEATHING AT OVERHANGS SHALL HAVE VENEER GRADES FOR C-C PLUGGED OR BETTER.
2. ROOF AND FLOOR SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN ACROSS THE SUPPORTS AND THE END JOINTS STAGGERED 4 FEET UNLESS OTHERWISE SHOWN ON THE PLANS. EDGE JOINTS AND END JOINTS OF ALL PANELS SHALL BE SPACED 1/8 INCH APART BETWEEN ADJACENT PANELS UNLESS OTHERWISE INDICATED BY THE PANEL MANUFACTURER.
3. WALL SHEATHING MAY BE INSTALLED VERTICALLY OR HORIZONTALLY. PANEL EDGES AND ENDS SHALL OCCUR OVER FRAMING OR FULL DEPTH BLOCKING. EDGE NAILING SHALL BE APPLIED FULL HEIGHT TO ALL HOLD DOWN STUDS AND POSTS, AND ALL COLUMNS. WALL SHEATHING PANELS SHALL BE NOT LESS THAN ONE NOMINAL STUD SPACING IN WIDTH NOR 16 INCHES WHICHEVER IS SMALLER.
4. PLYWOOD NAILS SHALL BE COMMONS OR HOT DIP GALVANIZED BOX NAILS, U.N.O. EDGE NAILING SHALL BE LOCATED AT LEAST 3/8-INCH FROM PANEL EDGES. NAILS SHALL NOT BE OVER DRIVEN SUCH THAT THE NAIL HEAD PENETRATES THE FACE PLY. NAILS IN PRESSURE TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED.

LAMINATED VENEER LUMBER (LVL) BEAMS ARE TO BE DOUGLAS FIR VERTICALLY LAMINATED AND SHALL BE REDLAM LVL AS MANUFACTURED BY REDBUILT, VERSA-LAM LVL AS MANUFACTURED BY BOISE CASCADE, OR APPROVED EQUAL. THE BEAMS SHALL CONFORM TO ICC ESR 2993, OR ICC ESR 1040 AND SHALL HAVE A MINIMUM MODULUS OF ELASTICITY (E) OF 2.0X10^6 PSI, AND A MINIMUM FLEXURAL STRESS (FB) OF 2900 PSI. U.N.O., MEMBERS SHALL BE A SINGLE PIECE, WHERE MULTIPLE PILES ARE SPECIFIED, THEY SHALL BE NAILED TOGETHER WITH 3 ROWS OF 16DSINKER NAILS @ 12-INCHES ON CENTER, STAGGERED 6-INCHES UNLESS OTHERWISE NOTED. DOUBLE MEMBERS REQUIRE NAILING ON ONE FACE, TRIPLE MEMBERS REQUIRE NAILING ON TWO FACES. FOUR AND MORE LAYER MEMBER REQUIRE NAILING ON EACH LAYER PLUS 2-5/8" BOLT @ 24-INCH O/C.

GLULAM BEAMS ARE TO BE DOUGLAS FIR COMBINATION 24F-V4 FOR SIMPLE SPANS, 24F-V8 FOR CONTINUOUS MULTI-SPANS. GLULAMS ARE TO BE MANUFACTURED IN ACCORDANCE WITH AITC 117, ANSI/AITC A190.1, AND ASTM D3737 FOR DRY CONDITIONS OF USE. NO CAMBER IS NECESSARY UNLESS OTHERWISE SHOWN. BEAMS SHALL BE ARCHITECTURAL-APPEARANCE GRADE. THE FABRICATOR SHALL APPLY END AND SURFACE SEALER. ARCHITECTURAL-APPEARANCE GRADE BEAMS ARE TO BE INDIVIDUALLY WRAPPED. THE ERECTOR IS TO SLIT THE WRAPPING WHEN THE BEAMS ARE DELIVERED TO THE JOB SITE TO ALLOW ENTRAPPED MOISTURE TO ESCAPE. THE FABRICATOR SHALL PROVIDE THE CERTIFICATE OF PERFORMANCE.

PREFABRICATED WOOD I JOISTS SHALL BE RED-I AS MANUFACTURED BY REDBUILT LLC, OR APPROVED EQUAL. I-JOISTS SHALL CONFORM TO ICC ESR 2994. NOTCHING OR DRILLING OF FLANGES IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED ON THE PLANS. WEBS MAY HAVE HOLES CUT PROVIDED THE SIZE, NUMBER AND LOCATION ARE WITHIN THE ALLOWABLE LIMITS AS DEFINED BY THE MANUFACTURER.

IDENTIFICATION EACH OF THE I-JOISTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE TRUSS SERIES, ICC-ES REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, DATE OF FABRICATION AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.

ENGINEERING CALCULATIONS FOR VAULTED TRUSSES SHALL DEMONSTRATE THAT EACH TRUSS HAS A COMBINED HORIZONTAL MOVEMENT FOR BOTH ENDS OF LESS THAN 3/4-INCH FOR THE DEAD LOAD PLUS LIVE LOAD.

LAMINATED VENEER LUMBER (LVL) BEAMS ARE TO BE DOUGLAS FIR VERTICALLY LAMINATED AND SHALL BE REDLAM LVL AS MANUFACTURED BY REDBUILT, VERSA-LAM LVL AS MANUFACTURED BY BOISE CASCADE, OR APPROVED EQUAL. THE BEAMS SHALL CONFORM TO ICC ESR 2993, OR ICC ESR 1040 AND SHALL HAVE A MINIMUM MODULUS OF ELASTICITY (E) OF 2.0X10^6 PSI, AND A MINIMUM FLEXURAL STRESS (FB) OF 2900 PSI. U.N.O., MEMBERS SHALL BE A SINGLE PIECE, WHERE MULTIPLE PILES ARE SPECIFIED, THEY SHALL BE NAILED TOGETHER WITH 3 ROWS OF 16DSINKER NAILS @ 12-INCHES ON CENTER, STAGGERED 6-INCHES UNLESS OTHERWISE NOTED. DOUBLE MEMBERS REQUIRE NAILING ON ONE FACE, TRIPLE MEMBERS REQUIRE NAILING ON TWO FACES. FOUR AND MORE LAYER MEMBER REQUIRE NAILING ON EACH LAYER PLUS 2-5/8" BOLT @ 24-INCH O/C.

GLULAM BEAMS ARE TO BE DOUGLAS FIR COMBINATION 24F-V4 FOR SIMPLE SPANS, 24F-V8 FOR CONTINUOUS MULTI-SPANS. GLULAMS ARE TO BE MANUFACTURED IN ACCORDANCE WITH AITC 117, ANSI/AITC A190.1, AND ASTM D3737 FOR DRY CONDITIONS OF USE. NO CAMBER IS NECESSARY UNLESS OTHERWISE SHOWN. BEAMS SHALL BE ARCHITECTURAL-APPEARANCE GRADE. THE FABRICATOR SHALL APPLY END AND SURFACE SEALER. ARCHITECTURAL-APPEARANCE GRADE BEAMS ARE TO BE INDIVIDUALLY WRAPPED. THE ERECTOR IS TO SLIT THE WRAPPING WHEN THE BEAMS ARE DELIVERED TO THE JOB SITE TO ALLOW ENTRAPPED MOISTURE TO ESCAPE. THE FABRICATOR SHALL PROVIDE THE CERTIFICATE OF PERFORMANCE.

PREFABRICATED WOOD I JOISTS SHALL BE RED-I AS MANUFACTURED BY REDBUILT LLC, OR APPROVED EQUAL. I-JOISTS SHALL CONFORM TO ICC ESR 2994. NOTCHING OR DRILLING OF FLANGES IS NOT PERMITTED UNLESS SPECIFICALLY DETAILED ON THE PLANS. WEBS MAY HAVE HOLES CUT PROVIDED THE SIZE, NUMBER AND LOCATION ARE WITHIN THE ALLOWABLE LIMITS AS DEFINED BY THE MANUFACTURER.

IDENTIFICATION EACH OF THE I-JOISTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE TRUSS SERIES, ICC-ES REPORT NUMBER, MANUFACTURER'S NAME, PLANT NUMBER, DATE OF FABRICATION AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.

WOOD FRAMING MEMBERS SUCH AS STRUCTURAL SAWN LUMBER; END-JOINTED LUMBER; PREFABRICATED WOOD I-JOISTS; STRUCTURAL GLUED-LAMINATED TIMBER; WOOD STRUCTURAL PANELS; FIBERBOARD SHEATHING (WHEN USED STRUCTURALLY); HARDBOARD SIDING (WHEN USED STRUCTURALLY); PARTICLEBOARD; PRESERVATIVE-TREATED WOOD; STRUCTURAL LOG MEMBERS; STRUCTURAL COMPOSITE LUMBER; ROUND TIMBER POLES AND PILES; FIRE-RETARDANT-TREATED WOOD; HARDWOOD PLYWOOD; WOOD TRUSSES; JOIST HANGERS; NAILS; AND STAPLES SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CBC SECTION 23.

STRUCTURAL DESIGN CRITERIA

RISK CATEGORY	II
IMPORTANCE FACTOR	1.0
FLOOR LIVE LOAD (psf):	50
ROOF LIVE LOAD (psf):	20
GROUND SNOW LOAD (psf):	30
DESIGN WIND SPEED (mph):	110
EXPOSURE:	B
SEISMIC DESIGN CATEGORY:	E
SIESMIC DESIGN DATA:	
S_s	2.51
S_1	0.97
SITE CLASS	D
F_a	1.0
F_v	1.5
S_{MS}	2.86
S_{M1}	1.99
S_{DS}	1.90
S_{D1}	1.33
SOIL VERTICAL BEARING VALUE (psf):	2000
SOIL LATERAL BEARING VALUE (psf):	150

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. REYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

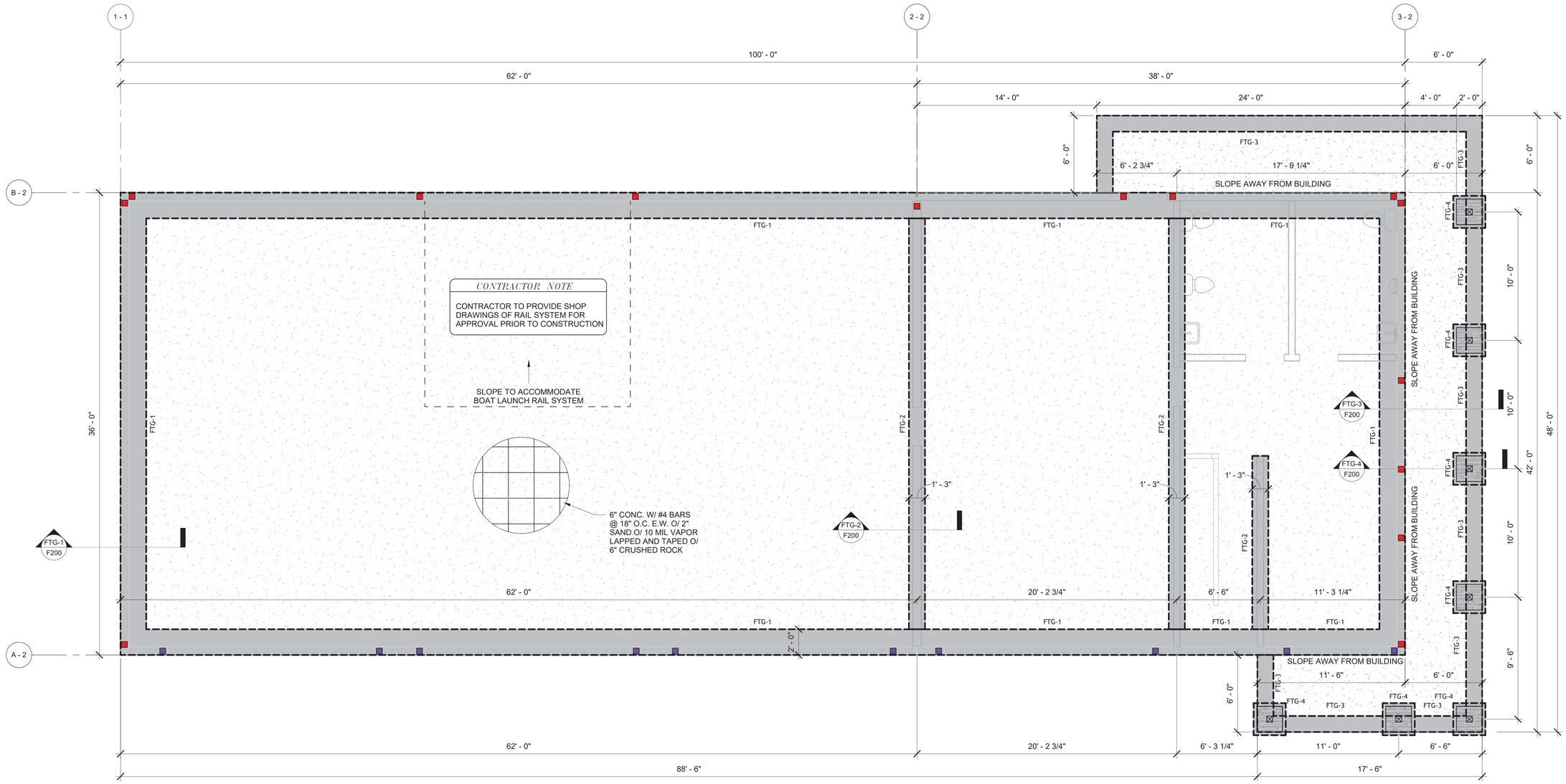
YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL CONSTRUCTION NOTES

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: G101

1/2" 1" 2"



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

HOLDDOWN LEGEND

- HDU5 HOLDDOWN w/ SSTB24 ANCHOR
- HDU11 HOLDDOWN w/ SB1X30 ANCHOR

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. REYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

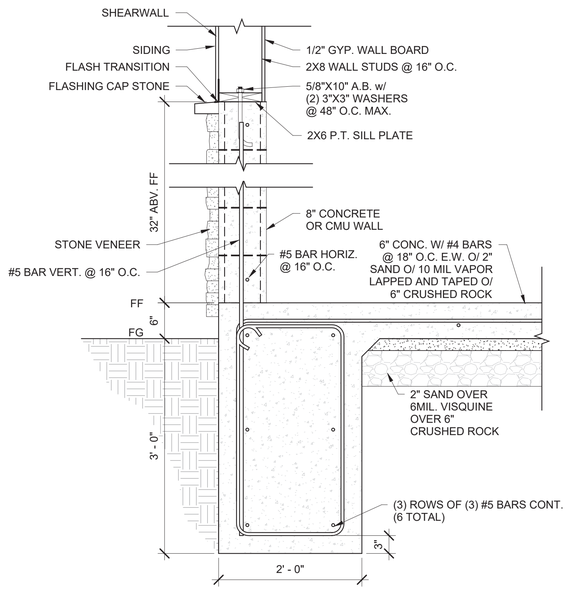
YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING FOUNDATION PLAN

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: F100

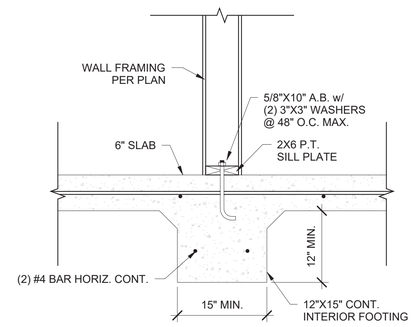
1/2" 1" 2"



PERIMETER FOUNDATION

SCALE: NTS

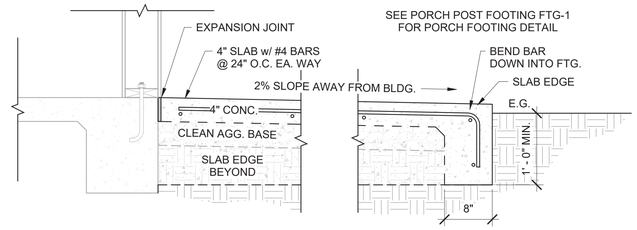
FTG–1 / F100



INTERIOR FOUNDATION

SCALE: NTS

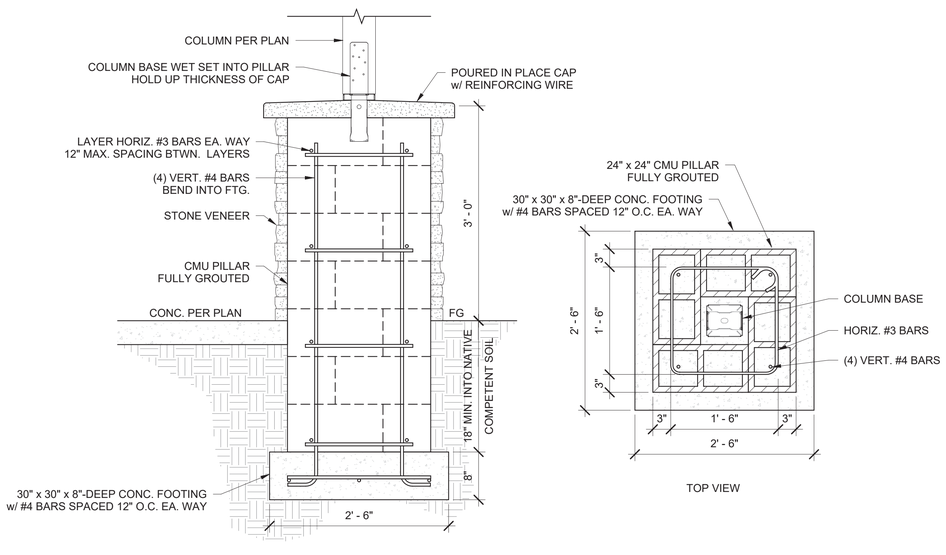
FTG–2 / F100



SLAB/CONCRETE TRANSITION

SCALE: NTS

FTG–3 / F100



PILLAR BASE DETAIL

SCALE: NTS

FTG–A / F100

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

TRANSPORTATION BUILDING FOUNDATION DETAIL

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

DEL NORTE COUNTY, CALIFORNIA

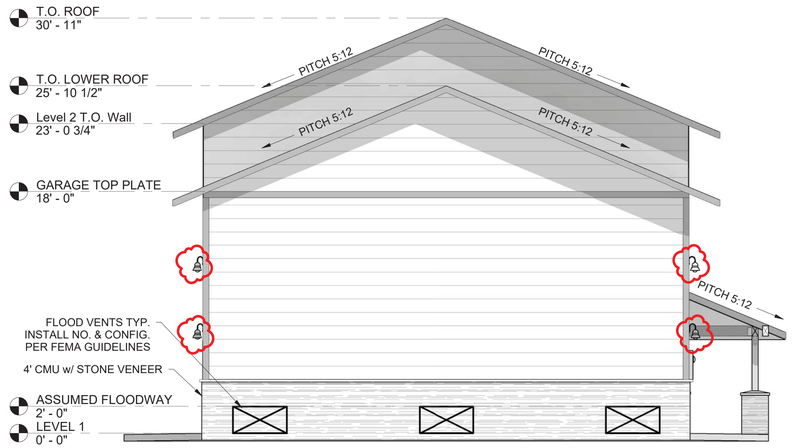
DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

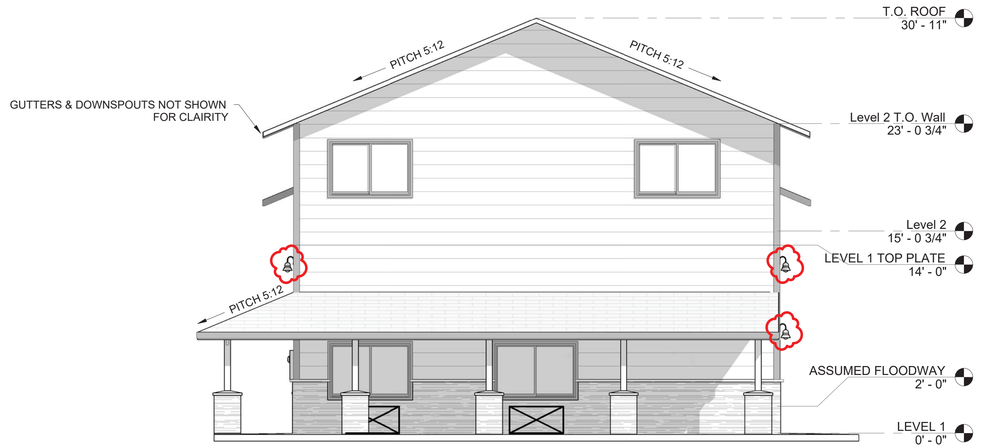
PROJECT NO: 484.2022.03

DRAWING NO: F200

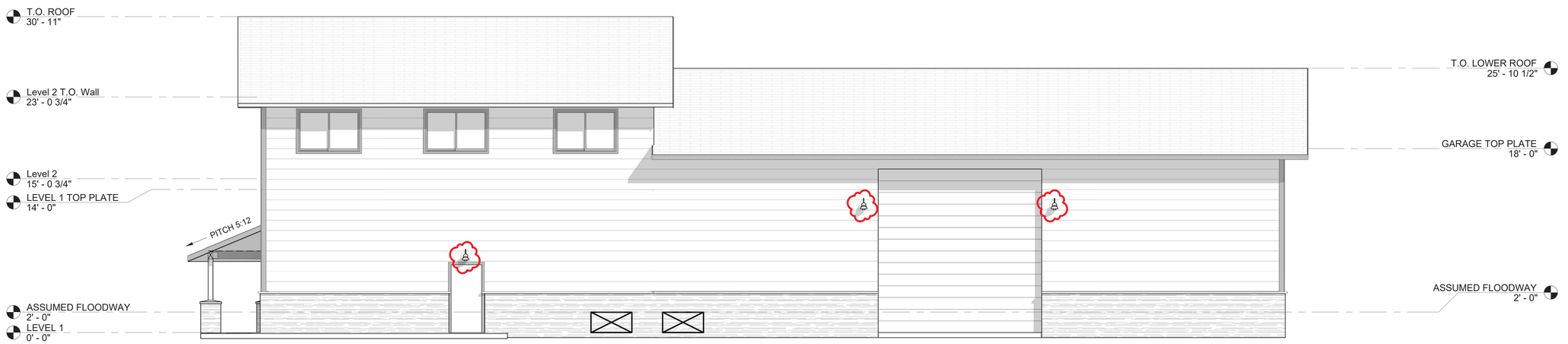
SOUTH VIEW
SCALE: 3/16" = 1'-0"



WEST VIEW
SCALE: 3/16" = 1'-0"



EAST VIEW
SCALE: 3/16" = 1'-0"



NORTH VIEW
SCALE: 3/16" = 1'-0"

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. REYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

TRANSPORTATION BUILDING ELEVATIONS

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

DEL NORTE COUNTY, CALIFORNIA

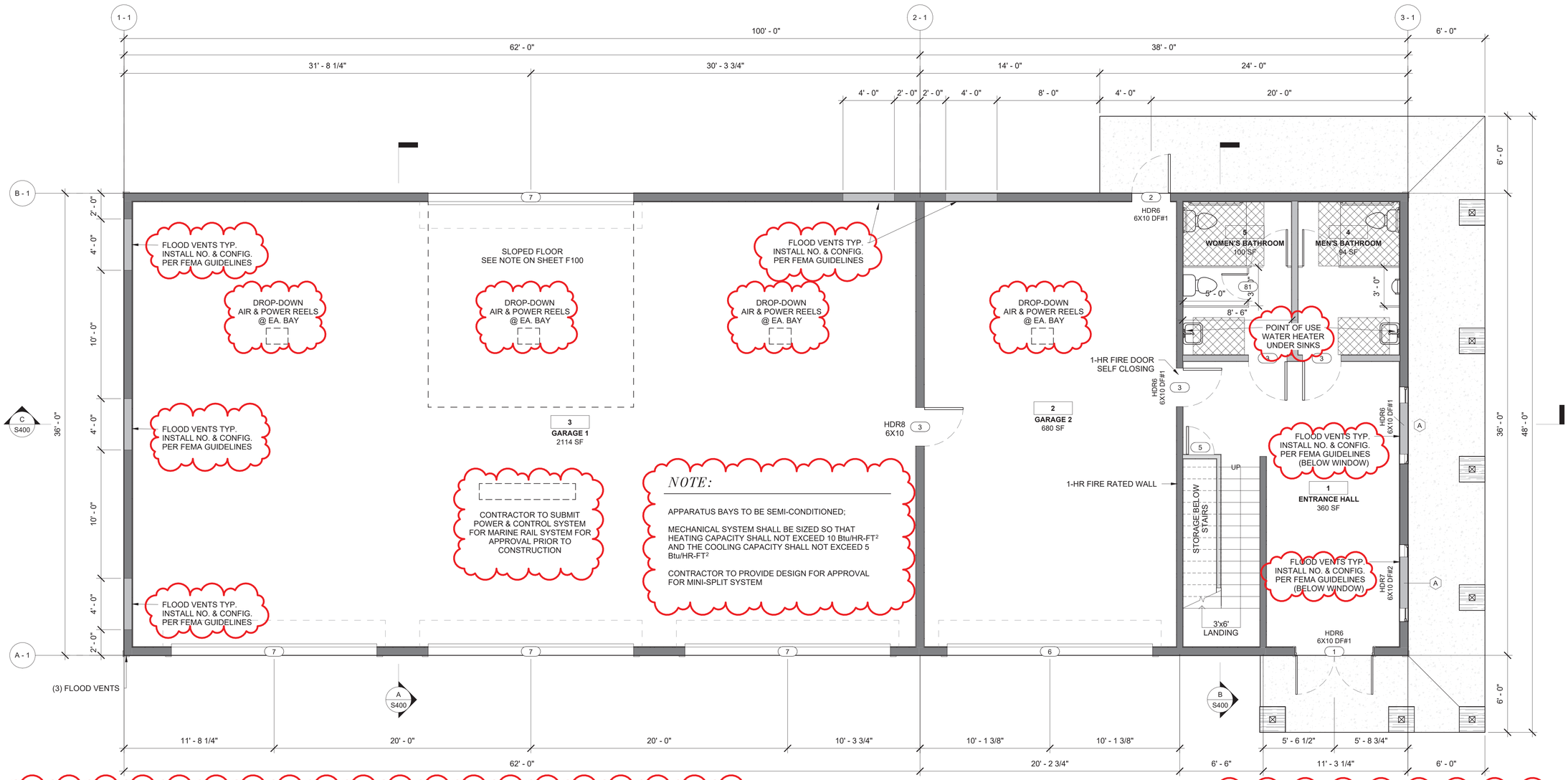
DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
A100

1/2" 1" 2"



LEVEL 1 – FLOOR PLAN

SCALE: 1/4" = 1'–0"

AREA: 3,600 SF

NOTE:

APPARATUS BAYS TO BE SEMI-CONDITIONED;

MECHANICAL SYSTEM SHALL BE SIZED SO THAT HEATING CAPACITY SHALL NOT EXCEED 10 Btu/HR-FT^2 AND THE COOLING CAPACITY SHALL NOT EXCEED 5 Btu/HR-FT^2

CONTRACTOR TO PROVIDE DESIGN FOR APPROVAL FOR MINI-SPLIT SYSTEM

CONTRACTOR TO SUBMIT POWER & CONTROL SYSTEM FOR MARINE RAIL SYSTEM FOR APPROVAL PRIOR TO CONSTRUCTION

GLAZING/DOOR NOTES:

SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, DOORS AND ACCESSIBILITY STANDARDS SHALL COMPLY WITH CBC CHAPTER 11-B, ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATION, COMMERCIAL BUILDINGS, AND PUBLICLY FUNDED HOUSING.

DOORS WITH GLZ'G AND GLZ'G ADJACENT TO DOORS SHALL COMPLY WITH CBC 2406.4

SAFETY GLAZING IS REQUIRED IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BI-FOLD DOORS.

SAFETY GLAZING SHALL BE REQUIRED WITHIN 24" OF A DOOR EDGE OR WITHIN 36" OF A STAIRWAY, LANDING OR RAMP WHEN THE BOTTOM EDGE OF THE GLAZING IS LESS THAT 60" FROM THE FLOOR OR WALKING SURFACE

REQUIRE SAFETY GLAZING IF GLAZING IS LESS THAN 60" MEASURED HORIZONTALLY FROM WATER'S EDGE OF A BATHTUB OR SHOWER.

WINDOW NOTES

ALL WINDOWS WILL BE, TEMPERED, DUAL PANE, VINYL.-HEADERS @ 6'-8" UNLESS OTHERWISE NOTED.

EGRESS WINDOWS ARE REQUIRED IN ALL BEDROOMS. THEY SHALL HAVE A MINIMUM NET CLEAR OPENABLE AREA OF 5.7 sq.ft., MINIMUM OF 24" IN HEIGHT, MINIMUM 20" WIDTH, AND A FINISHED SILL HEIGHT OF NOT MORE THAN 44" ABOVE FINISH FLOOR.

GENERAL CONSTRUCTION NOTES

- DRAWING SCALE AS NOTED.
- ALL FRAMING LUMBER TO BE DF#2 UNLESS NOTED OTHERWISE.
- ALL WOOD MEMBERS IN DIRECT CONTACT WITH CONCRETE TO BE PRESSURE TREATED OR H.F.
- IN EXTERIOR WALLS AND BEARING PARTITIONS ANY WOOD STUD MAY BE CUT OR NOTCHED TO A DEPTH NOT TO EXCEED 25% OF IT'S WIDTH. CUTTING OR NOTCHING OF STUDS IN NON-BEARING WALLS MAY NOT EXCEED 40% OF STUD WIDTH.
- IN EXTERIOR WALLS AND BEARING PARTIIONS ANY WOOD STUD MAY HAVE BORED HOLES NOT TO EXCEED 40% OF THE STUD WIDTH. BORED HOLES IN STUDS IN NON-BEARING WALLS MAY NOT EXCEED 60% OF THE STUD WIDTH.
- ALL EXTERIOR SURFACES OF THE BUILDING SHALL BE WRAPPED IN 'TYVEK' WRAP, OR EQUAL.
- ALL SUB SIDING PER SHEARWALL SCHEDULE UNLESS NOTED OTHERWISE.
- FIRE STOPPING AND DRAFT STOPS PER 2019 CBC SHALL BE PROVIDED.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND SIZES PRIOR TO ORDERING ANY MATERIALS.

FIRE EXTINGUISHER REQUIREMENTS

CLASS 2-A RATED FIRE EXTINGUISHERS SHALL BE PROVIDED SUCH THAT NO POINT IN THE BUILDING IS FURTHER THAN 75' TRAVEL DISTANCE TO AN EXTINGUISHER. EXTINGUISHERS SHALL BE MOUNTED ON THE WALL OR IN CABINETS, SUCH THAT THE TOP OF THE EXTINGUISHER IS NO MORE THAN 5' ABOVE FINISHED FLOOR LEVEL.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 1 - FLOOR PLAN

DEL NORTE COUNTY, CALIFORNIA

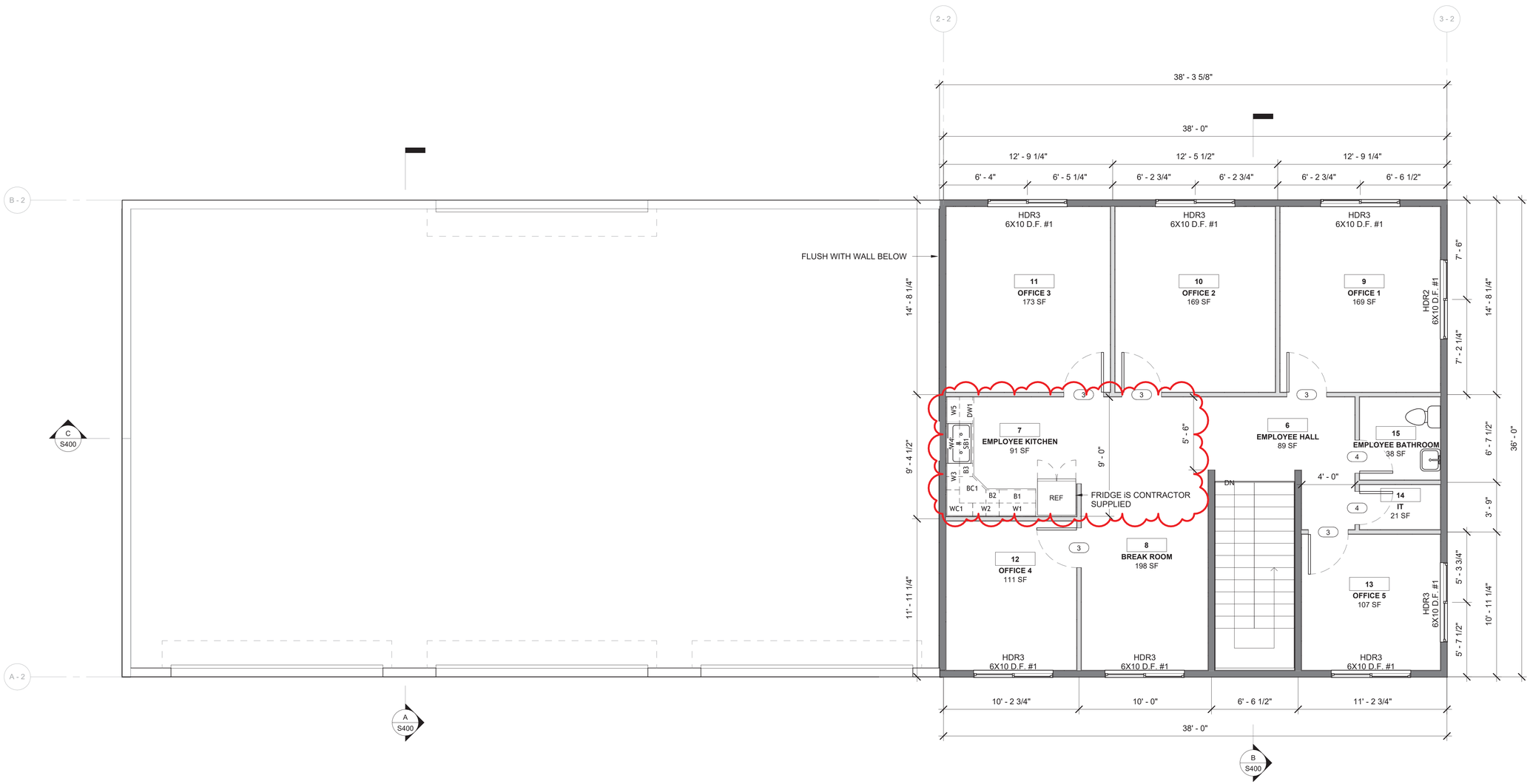
DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

PROJECT NO: 484.2022.03

DRAWING NO: A200

1/2" 1" 2"



LEVEL 2 – FLOOR PLAN

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

AREA: 1,368 SF

FIRE EXTINGUISHER REQUIREMENTS

CLASS 2-A RATED FIRE EXTINGUISHERS SHALL BE PROVIDED SUCH THAT NO POINT IN THE BUILDING IS FURTHER THAN 75' TRAVEL DISTANCE TO AN EXTINGUISHER. EXTINGUISHERS SHALL BE MOUNTED ON THE WALL OR IN CABINETS, SUCH THAT THE TOP OF THE EXTINGUISHER IS NO MORE THAN 5' ABOVE FINISHED FLOOR LEVEL.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DES BY	DWN BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	TVCE	ARD	EEK	EEK

TRANSPORTATION BUILDING
LEVEL 2 - FLOOR PLAN

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

PROJECT NO: 484.2022.03

DRAWING NO: A201

1/2" 1" 2"

FINISH SCHEDULE								
MARK	NAME	AREA	FLOOR FINISH		WALL FINISH		CEILNG FINISH	
			FLOORING	BASEBOARDS	WALL SUBSTRATE	WALL TEXTURE	CEILING SUBSTRATE	CEILING TEXTURE
LEVEL 1								
1	ENTRANCE HALL	360 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
2	GARAGE 2	680 SF	RAW CONC.	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
3	GARAGE 1	2114 SF	RAW CONC.	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
4	MEN'S BATHROOM	94 SF	TILE	TILE	TILE	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
5	WOMEN'S BATHROOM	100 SF	TILE	TILE	TILE	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
Level 2								
6	EMPLOYEE HALL	89 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
7	EMPLOYEE KITCHEN	91 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
8	BREAK ROOM	198 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
9	OFFICE 1	169 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
10	OFFICE 2	169 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
11	OFFICE 3	173 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
12	OFFICE 4	111 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
13	OFFICE 5	107 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
14	IT	21 SF	LVP	WOOD 3 1/4	5/8" GYP (U.N.O)	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL
15	EMPLOYEE BATHROOM	38 SF	TILE	TILE	TILE	ORANGE PEEL	5/8" GYP (U.N.O.)	ORANGE PEEL

OCCUPANCY - LEVEL 1				
TAG	ROOM NO.	AREA	Department	OCCUPANCY
ENTRANCE HALL	1	360 SF	150	2
GARAGE 2	2	680 SF	200	14
GARAGE 1	3	2114 SF	200	11
MEN'S BATHROOM	4	94 SF	-	2
WOMEN'S BATHROOM	5	100 SF	-	2

OCCUPANCY - LEVEL 2				
TAG	ROOM NO.	AREA	LOAD	OCCUPANCY
EMPLOYEE HALL	6	89 SF	150	1
EMPLOYEE KITCHEN	7	91 SF	200	1
BREAK ROOM	8	198 SF	15	14
OFFICE 1	9	169 SF	150	2
OFFICE 2	10	169 SF	150	2
OFFICE 3	11	173 SF	150	2
OFFICE 4	12	111 SF	150	1
OFFICE 5	13	107 SF	150	1
IT	14	21 SF	-	1
EMPLOYEE BATHROOM	15	38 SF	-	1

CASEWORK SCHEDULE			
MARK	WIDTH	DEPTH	CONSTRUCTION
BASE			
B1	2' - 9"	2' - 0"	SOLID WOOD / PLYWOOD
B2	1' - 0"	2' - 0"	SOLID WOOD / PLYWOOD
B3	1' - 0"	2' - 0"	SOLID WOOD / PLYWOOD
BASE - DISHWASHER			
DW1	2' - 0"	2' - 0"	SOLID WOOD / PLYWOOD
BASE - SINK			
SB1	3' - 0"	2' - 0"	SOLID WOOD / PLYWOOD
BASE CORNER			
BC1	3' - 0"	3' - 0"	SOLID WOOD / PLYWOOD
WALL			
W1	2' - 9"	1' - 0"	SOLID WOOD / PLYWOOD
W2	2' - 0"	1' - 0"	SOLID WOOD / PLYWOOD
W3	2' - 0"	1' - 0"	SOLID WOOD / PLYWOOD
W4	3' - 0"	1' - 0"	SOLID WOOD / PLYWOOD
W5	2' - 0"	1' - 0"	SOLID WOOD / PLYWOOD
WALL - CORNER			
WC1	2' - 0"	1' - 0"	SOLID WOOD / PLYWOOD

DOOR SCHEDULE							
MARK	COUNT	WIDTH	HEIGHT	LOCATION	MATERIAL	GLAZING	HARDWARE
1	1	6' - 0"	6' - 8"	EXTERIOR	STOREFRONT - SOLID CORE METAL DOOR	FULL	LEVER HANDLE SELF-CLOSER KEYED LOCKSET
2	1	3' - 0"	6' - 8"	EXTERIOR	METAL FRAME, SOLID CORE METAL DOOR	1/4	LEVER HANDLE SELF-CLOSER KEYED LOCKSET
3	9	3' - 0"	6' - 8"	INTERIOR	WOOD FRAME, SOLID CORE WOOD DOOR	NONE	LEVER HANDLE SELF-CLOSER PRIVACY LOCKSET
4	2	2' - 6"	6' - 8"	INTERIOR	WOOD FRAME, SOLID CORE WOOD DOOR	NONE	LEVER HANDLE SELF-CLOSER PRIVACY LOCKSET
5	1	2' - 2"	6' - 8"	INTERIOR	WOOD FRAME, SOLID CORE WOOD DOOR	NONE	LEVER HANDLE
6	1	16' - 0"	12' - 0"	ROLL-UP	INSULATED METAL	YES	INSIDE SLIDE
7	4	16' - 0"	16' - 0"	ROLL-UP	INSULATED METAL	YES	INSIDE SLIDE

DOOR COMMENT KEY

COMMENT KEY

(1) ALWAYS OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT

(2) PROVIDE ACCESSIBILITY SIGNAGE PER CBC CHAPTER 11-B

(3) SEE FLOOR PLAN FOR ADDITIONAL SIGNAGE OR RATINGS

WINDOW SCHEDULE						
MARK	COUNT	WIDTH	HEIGHT	DESCRIPTION	MATERIAL	HDR. HT.
A	10	6' - 0"	4' - 0"	HORIZONTAL SLIDER	ALUMINUM FRAME DOUBLE PANE	6' - 8"

SHEARWALL SCHEDULE Master							
NAME	STORY	SHEATHING	FRAMING	NAILING	ANCHOR BOLTS	CONNECTIONS	NOTES
1 - 1	1	7/16" CDX PLY	2X8 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD	5/8" x 10" A.B. @ 16" O.C.	HDU5 HOLDDOWN w/ SSTB24 ANCHOR	
2 - 1	1	7/16" CDX PLY	2X8 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD	5/8" x 10" A.B. @ 48" O.C.	HDU5 HOLDDOWN w/ SSTB24 ANCHOR	
3 - 1	1	7/16" CDX PLY	2X8 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD	5/8" x 10" A.B. @ 48" O.C.	HDU5 HOLDDOWN w/ SSTB24 ANCHOR	
A - 1	1	7/16" CDX PLY BOTH SIDES	2X8 @ 16" O.C.	8d @ 3" EDGE, 6" FIELD	5/8" x 10" A.B. @ 16" O.C.	HDU11 HOLDDOWN w/ SB1X30 ANCHOR	
B - 1	1	7/16" CDX PLY	2X8 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD	5/8" x 10" A.B. @ 16" O.C.	HDU5 HOLDDOWN w/ SSTB24 ANCHOR	
2 - 2	2	7/16" CDX PLY	2X6 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD		MSTI36	
3 - 2	2	7/16" CDX PLY	2X6 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD		MSTI36	
A - 2	2	7/16" CDX PLY	2X6 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD		MSTI36	
B - 2	2	7/16" CDX PLY	2X6 @ 16" O.C.	8d @ 6" EDGE, 12" FIELD		MSTI36	

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATA	DESCRIPTION	BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING SCHEDULES & DETAILS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
A300

1/2" 1" 2"

GENERAL ACCESSIBILITY NOTES

1. FLOOR AND GROUND SURFACES SHALL BE STABLE FIRM AND SLIP RESISTANT
2. OVERHANG OBSTRUCTIONS LESS THAN 80" ABOVE PEDESTRIAN WAYS, PLATFORMS OR RAMPS ARE NOT ALLOWED.
3. PROVIDE MIN. 80" HEAD ROOM IN ALL CIRCULATION SPACES AND WALKWAYS.
4. OBJECTS MAY NOT REDUCE THE CLEAR WITH OF AN ACCESSIBLE ROUTE OR MANEUVERINGS SPACE.
5. THE MAXIMUM HEIGHT FOR CONTROLS, SWITCHES, RECEPTACLES, OUTLETS AND THERMOSTATS IS 48" MEASURED TO THE TOP OF THE BOX TO THE LEVEL OF FINISH FLOOR OR WORKING PLATFORM. THE MINIMUM HEIGHT FOR RECEPTACLES IS 13" MEASURED TO THE BOTTOM OF THE BOX TO THE LEVEL OF FINISHED FLOOR OR WORKING PLATFORM.

SINGLE-SERVICE DISPENSERS AT, OR ADJACENT TO, EACH HAND WASHING FACILITY:

A. HAND WASHING CLEANSER

B. SANITARY SINGLE USE TOWELS OR A HEATED -AIR HAND DRYING DEVICE. WITH OPERABLE PARTS LOCATED A MAXIMUM OF 40" ABOVE FLOOR

SANITARY FACILITY NOTES:

1. CONTROLS SHALL ALL OPERATE WITH ONE HAND WITHOUT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE TO OPERATE ALL CONTROLS SHALL BE NO GREATER THAN 5LBS.
2. THE MAXIMUM HEIGHT OF CONTROLS OR OPERABLE PASTS SHALL BE 40" ABOVE THE FLOOR.
3. THE FLUSH CALVE FOR THE TOILET SHALL BE ON THE WIDE SIDE OF THE TOILET AREA.
4. THE TOILET PAPER DISPENSER SHALL ALLOW CONTINUOUS PAPER FLOW AND SHALL NOT CONTROL DELIVERY.
5. PROVIDE BLOCKING FOR GRAB BARS. BLOCKING SHALL BE ABLE TO SUPPORT 250LB POINT LOAD.
6. TOILET ROOM FLOOR SURFACES ARE TO BE SMOOTH HARD AND NONABSORBENT EXTENDING UPWARD A MINIMUM OF 5" ONTO THE WALLS.
7. WALL SURFACED WITHIN WATER CLOSET COMPARTMENTS AND WALLS WITHIN 24 " OF THE FRONT OR SIDES OF TOILETS OR URINALS SHALL BE SMOOTH HARD AND NONABSORBENT TO A HEIGHT OF 48" ABOVE THE FLOOR.
8. ACCESSIBLE WATER CLOSET COMPARTMENT DOORS SHALL HAVE A LOOP OR U-SHAPED HANDLE IMMEDIATELY BELOW THE LATCH.

THE DOORS TO THE SANITARY FACILITIES SHALL BE SIGNED. THE MEN'S ROOM SHALL HAVE AN EQUILATERAL TRIANGLE WITH EDGES 12" LONG VERTEX POINTING UPWARD. THE WOMEN'S ROOM SHALL HAVE A CIRCLE 12" IN DIAMETER. UNISEX SANITARY FACILITIES SHALL HAVE THE TRIANGLE SUPERIMPOSED UPON THE CIRCLE. THE THICKNESS OF THESE SIGNS SHALL BE ¼". THESE SIGNS SHALL BE CENTERED ON THE DOOR 60" ABOVE THE FLOOR. THE CHARACTERS AND BACKGROUND OF THE SIGNS SHALL BE EGGSHELL MATTE OR OTHER NONGLARE FINISH AND THEIR CONTRAST AND COLOR SHALL BE DISTINCTLY DIFFERENT FROM CONTRAST AND COLOR OF THE DOOR. AN ACCOMPANYING SIGN SHALL BE MOUNTED ON THE LATCH SIDE OF THE DOOR AT A HEIGHT OF 60" WITH LETTERS RAISED 1/32" MINIMUM. THE SIZE OF THE CHARACTERS SHALL BE BETWEEN 5/8" AND 2". THEY SHALL BE SANSERIF UPPERCASE ACCOMPANIED BY GRADE 2 BRAIL.

HOT WATER SHALL BE LIMITED TO A MAXIMUM TEMPERATURE OF 120 DEGREES. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION.

DOOR NOTES

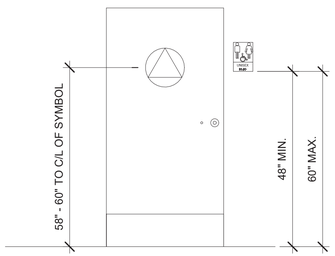
1. PROVIDE ONE STANDARD SIGN WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND ONE BRAILLE SIGN AT EACH ACCESSIBLE ENTRANCE. MOUNT SIGNS AT 60" ABOVE FLOOR LEVEL.
2. PROVIDE LEVEL LANDINGS (2% MAX. SLOPE) EACH SIDE OF ALL DOORS AS DIMENSIONS ON FLOOR PLAN, WITH ½" MAX. FROM TOP OF THRESHOLD TO LANDING ON EACH SIDE OF DOOR.
3. HARDWARE AT ALL DOORS, EXCEPT STOREFRONT, SHALL BE LEVER TYPE WITH HANDLES PROVIDING A RETURN TO WITHIN 1/2" FROM THE DOOR FACE, CENTERED BETWEEN 34 " AND 44".
4. THE BOTTOM 10" OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE.
5. LOCK OR LATCH ON EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE. THE MAIN EXIT MAY HAVE A KEY LOCK IF A SIGN IS POSTED STATING "THIS DOOR TO REMAINED UNLOCKED WHENEVER THE BUILDING IS OCCUPIED." MANUALLY OPERATED EDGE OR SURFACE MOUNTED FLUSH BOLTS AND SURFACE BOLTS ARE PROHIBITED. AUTOMATIC FLUSH BOLTS ARE ALLOWED ON PAIRS OF DOORS PROVIDED THE DOOR WITH THE FLUSH BOLT HAS NO KNOBS OR SURFACE-MOUNTED HARDWARE.
6. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5LBS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGES DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. WHEN FIRE DOORS ARE UTILIZED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO NOT EXCEED 15LBS.

SHOWER NOTES

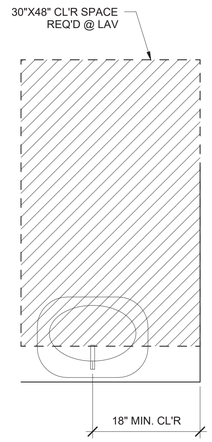
1. WHEN A SHOWER STALL IS PROVIDED, AT LEAST ONE SHOWER STALL SHALL MEASURE AT LEAST 42" WIDE BY 48" DEEP WITH AN ENTRANCE OPENING OF AT LEAST 36". THE MAXIMUM SLOPE OF THE SHOWER FLOOR SHALL BE ½"/FT. IN ANY DIRECTION AND SHALL SLOPE TOWARD THE REAR TO A DRAIN LOCATED WITHIN 6 " OF THE REAR WALL. THE FLOOR SURFACES SHALL BE CARBORUNDUM OR GRIT-FACED TILE OR OF A MATERIAL PROVIDING EQUIVALENT SLIP RESISTANCE.
2. FLOOR SPACE. A CLEAR MANEUVERING SPACE AT LEAST 30" IN WIDTH BY 48" IN LENGTH SHALL BE LOCATED OUTSIDE THE SHOWER, FLUSH AND PARALLEL TO THE CONTROL WALL.
3. REINFORCED WALLS FOR GRAB BARS. GRAB BAR REINFORCEMENT SHALL BE INSTALLED CONTINUOUS IN THE WALLS ON SHOWERS 32" TO 38" ABOVE THE FLOOR. THE GRAB BAR REINFORCEMENT SHALL BE A MINIMUM OF 6 INCHES NOMINAL IN HEIGHT. GLASS-WALLED SHOWER STALLS SHALL PROVIDE REINFORCEMENT FOR INSTALLATION OF FLOOR MOUNTED OR CEILING MOUNTED GRAB BARS.
4. THRESHOLDS. WHEN A THRESHOLD (A RECESSED DROP) IS USED, IT SHALL BE A MAXIMUM OF ½" IN HEIGHT AND HAVE A BEVELED OR SLOPPED ANGLE NOT EXCEEDING 45-DEG. FROM THE HORIZONTAL.
5. SHOWER CONTROLS. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS-FORCE. LEVER OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISM ARE EXAMPLES OF ACCEPTABLE DESIGNS.

IDENTIFICATION SIGNAGE

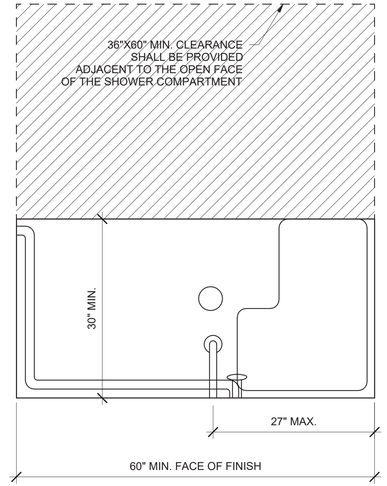
WHEN SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH: 2019 CBC CHPT. 11B, ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATION, COMMERCIAL BUILDINGS AND PUBLICLY FUNDED HOUSING.



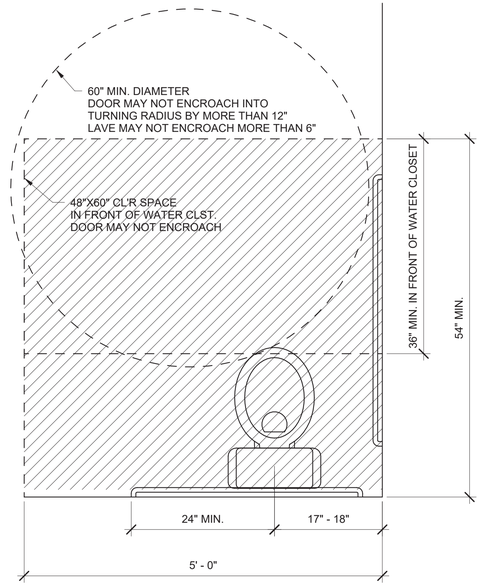
SIGNAGE ON DOOR
SCALE: NTS



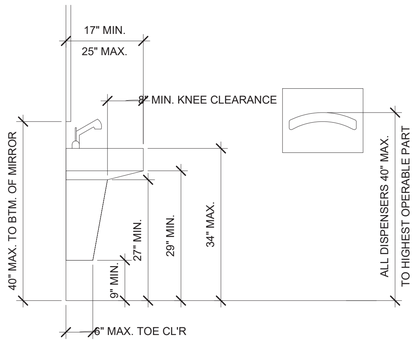
LAVATORY
CLEAR FLOOR SPACE
SCALE: NTS



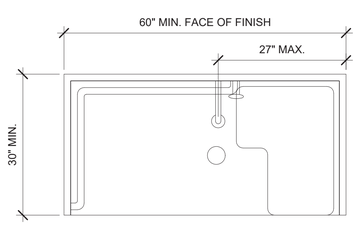
SHOWER STALL
CLEAR FLOOR SPACE
SCALE: NTS



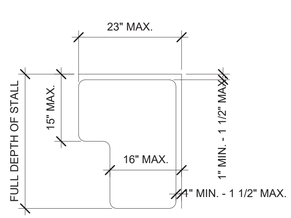
WATER CLOSET
CLEAR FLOOR SPACE
SCALE: NTS



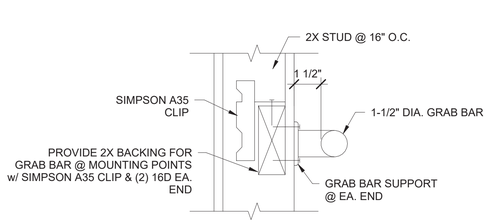
LAVATORY DETAIL
SCALE: NTS



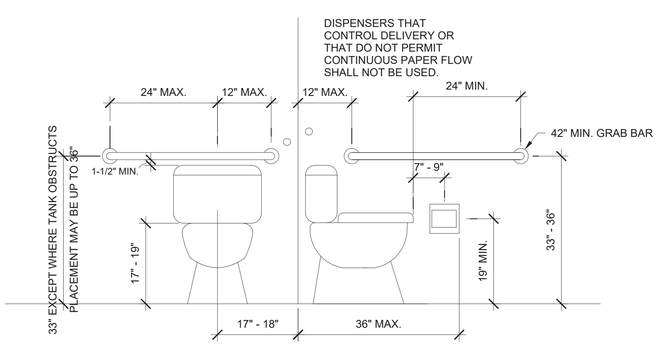
ROLL-IN SHOWER STALL DETAIL
SCALE: NTS



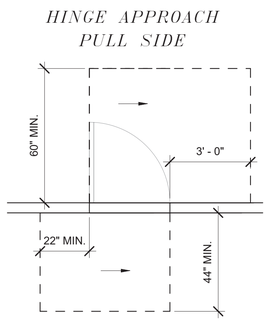
SHOWER SEAT DETAIL
SCALE: NTS



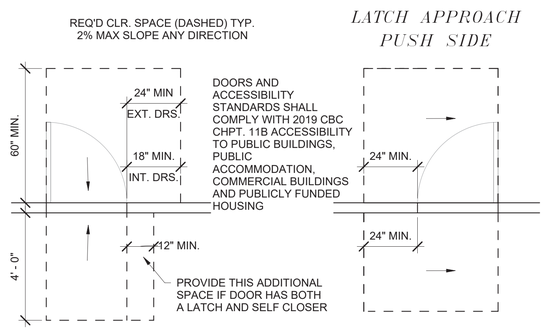
BLOCKING DETAIL
SCALE: NTS



TOILET DETAIL
SCALE: NTS



HINGE APPROACH
PUSH SIDE



FRONT APPROACH

LATCH APPROACH
PULL SIDE

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
STANDARD ACCESSIBILITY DETAILS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: A400

1/2" 1" 2"

1003.2 CEILING HEIGHT
THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7 FEET 6 INCHES ABOVE THE FINISHED FLOOR.
EXCEPTIONS:
SLOPED CEILINGS IN ACCORDANCE WITH SECTION 1208.2.
CEILINGS OF DWELLING UNITS AND SLEEPING UNITS WITHIN RESIDENTIAL OCCUPANCIES IN ACCORDANCE WITH SECTION 1208.2.
ALLOWABLE PROJECTIONS IN ACCORDANCE WITH SECTION 1003.3.
STAIR HEADROOM IN ACCORDANCE WITH SECTION 1011.3.
DOOR HEIGHT IN ACCORDANCE WITH SECTION 1010.1.1.
RAMP HEADROOM IN ACCORDANCE WITH SECTION 1012.5.2.
THE CLEAR HEIGHT OF FLOOR LEVELS IN VEHICULAR AND PEDESTRIAN TRAFFIC AREAS OF PUBLIC AND PRIVATE PARKING GARAGES IN ACCORDANCE WITH SECTION 406.2.2.
AREAS ABOVE AND BELOW MEZZANINE FLOORS IN ACCORDANCE WITH SECTION 505.2.
IN GROUP I-2, I-2.1 AND I-3 OCCUPANCIES, THE MEANS OF EGRESS SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 8 FEET

1003.3.1 HEADROOM
PROTRUDING OBJECTS ARE PERMITTED TO EXTEND BELOW THE MINIMUM CEILING HEIGHT REQUIRED BY SECTION 1003.2 WHERE A MINIMUM HEADROOM OF 80 INCHES IS PROVIDED OVER ANY CIRCULATION PATHS, INCLUDING WALKS, CORRIDORS, AISLES AND PASSAGEWAYS. IN OTHER THAN GROUP I-2 AND GROUP I-2.1 OCCUPANCIES, NOT MORE THAN 50 PERCENT OF THE CEILING AREA OF A MEANS OF EGRESS SHALL BE PERMITTED TO BE REDUCED IN HEIGHT BY PROTRUDING OBJECTS.
EXCEPTION: DOOR CLOSERS AND STOPS SHALL NOT REDUCE HEADROOM TO LESS THAN 78 INCHES (1981 MM).
A BARRIER SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE ABOVE A CIRCULATION PATH IS LESS THAN 80 INCHES (2032 MM) HIGH ABOVE THE FINISHED FLOOR. THE LEADING EDGE OF SUCH A BARRIER SHALL BE LOCATED 27 INCHES (686 MM) MAXIMUM ABOVE THE FINISHED FLOOR.

1003.3.3 HORIZONTAL PROJECTIONS
OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND NOT MORE THAN 80 INCHES ABOVE THE FINISHED FLOOR SHALL NOT PROJECT HORIZONTALLY MORE THAN 4 INCHESINTO THE CIRCULATION PATH.
EXCEPTION: HANDRAILS ARE PERMITTED TO PROTRUDE 41/2 INCHESFROM THE WALL OR GUARD.

1003.3.4 CLEAR WIDTH
PROTRUDING OBJECTS SHALL NOT REDUCE THE MINIMUM CLEAR WIDTH OF ACCESSIBLE ROUTES AS REQUIRED IN CHAPTER 11A OR CHAPTER 11B.

1003.4 SLIP-RESISTANT SURFACE
CIRCULATION PATHS OF THE MEANS OF EGRESS SHALL HAVE A SLIP-RESISTANT SURFACE AND BE SECURELY ATTACHED.

1003.5 ELEVATION CHANGE
WHERE CHANGES IN ELEVATION OF LESS THAN 12 INCHES EXIST IN THE MEANS OF EGRESS, SLOPED SURFACES SHALL BE USED. WHERE THE SLOPE IS GREATER THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE), RAMPS COMPLYING WITH SECTION 1012 SHALL BE USED. WHERE THE DIFFERENCE IN ELEVATION IS 6 INCHES OR LESS, THE RAMP SHALL BE EQUIPPED WITH EITHER HANDRAILS OR FLOOR FINISH MATERIALS THAT CONTRAST WITH ADJACENT FLOOR FINISH MATERIALS.
EXCEPTIONS:
STEPS AT EXTERIOR DOORS COMPLYING WITH SECTION 1010.1.4.
A STAIR WITH A SINGLE RISER OR WITH TWO RISERS AND A TREAD IS PERMITTED AT LOCATIONS NOT REQUIRED TO BE ACCESSIBLE BY CHAPTER 11A OR 11B WHERE THE RISERS AND TREADS COMPLY WITH SECTION 1011.5, THE MINIMUM DEPTH OF THE TREAD IS 13 INCHES (330 MM) AND NOT LESS THAN ONE HANDRAIL COMPLYING WITH SECTION 1014 IS PROVIDED WITHIN 30 INCHES (762 MM) OF THE CENTERLINE OF THE NORMAL PATH OF EGRESS TRAVEL ON THE STAIR.
A STEP IS PERMITTED IN AISLES SERVING SEATING THAT HAS A DIFFERENCE IN ELEVATION LESS THAN 12 INCHES (305 MM) AT LOCATIONS NOT REQUIRED TO BE ACCESSIBLE BY CHAPTER 11A OR 11B, PROVIDED THAT THE RISERS AND TREADS COMPLY WITH SECTION 1030.14 AND THE AISLE IS PROVIDED WITH A HANDRAIL COMPLYING WITH SECTION 1030.16.

1003.6 MEANS OF EGRESS CONTINUITY
THE PATH OF EGRESS TRAVEL ALONG A MEANS OF EGRESS SHALL NOT BE INTERRUPTED BY A BUILDING ELEMENT OTHER THAN A MEANS OF EGRESS COMPONENT AS SPECIFIED IN THIS CHAPTER. OBSTRUCTIONS SHALL NOT BE PLACED IN THE MINIMUM WIDTH OR REQUIRED CAPACITY OF A MEANS OF EGRESS COMPONENT EXCEPT PROJECTIONS PERMITTED BY THIS CHAPTER. THE MINIMUM WIDTH OR REQUIRED CAPACITY OF A MEANS OF EGRESS SYSTEM SHALL NOT BE DIMINISHED ALONG THE PATH OF EGRESS TRAVEL.

1005.1 GENERAL
ALL PORTIONS OF THE MEANS OF EGRESS SYSTEM SHALL BE SIZED IN ACCORDANCE WITH THIS SECTION.
EXCEPTION: AISLES AND AISLE ACCESSWAYS IN ROOMS OR SPACES USED FOR ASSEMBLY PURPOSES COMPLYING WITH SECTION 1030.
1005.5 DISTRIBUTION OF MINIMUM WIDTH AND REQUIRED CAPACITY
WHERE MORE THAN ONE EXIT, OR ACCESS TO MORE THAN ONE EXIT, IS REQUIRED, THE MEANS OF EGRESS SHALL BE CONFIGURED SUCH THAT THE LOSS OF ANY ONE EXIT, OR ACCESS TO ONE EXIT, SHALL NOT REDUCE THE AVAILABLE CAPACITY OR WIDTH TO LESS THAN 50 PERCENT OF THE REQUIRED CAPACITY OR WIDTH.

1005.7.1 DOORS
DOORS, WHEN FULLY OPENED, SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN 7 INCHES.
DOORS IN ANY POSITION SHALL NOT REDUCE THE REQUIRED WIDTH BY MORE THAN ONE-HALF.
EXCEPTIONS:
IN OTHER THAN GROUP I-2 OCCUPANCIES, SURFACE-MOUNTED LATCH RELEASE HARDWARE SHALL BE EXEMPT FROM INCLUSION IN THE 7-INCH MAXIMUM (178 MM) ENCROACHMENT WHERE BOTH OF THE FOLLOWING CONDITIONS EXIST:
THE HARDWARE IS MOUNTED TO THE SIDE OF THE DOOR FACING AWAY FROM THE ADJACENT WALL WHERE THE DOOR IS IN THE OPEN POSITION.
THE HARDWARE IS MOUNTED NOT LESS THAN 34 INCHES (865 MM) NOR MORE THAN 48 INCHES (1219 MM) ABOVE THE FINISHED FLOOR.
THE RESTRICTIONS ON DOOR SWING SHALL NOT APPLY TO DOORS WITHIN INDIVIDUAL DWELLING UNITS AND SLEEPING UNITS OF GROUP R-2 OCCUPANCIES AND DWELLING UNITS OF GROUP R-3 OCCUPANCIES.

1005.7.2 OTHER PROJECTIONS
HANDRAIL PROJECTIONS SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 1014.8. OTHER NONSTRUCTURAL PROJECTIONS SUCH AS TRIM AND SIMILAR DECORATIVE FEATURES SHALL BE PERMITTED TO PROJECT INTO THE REQUIRED WIDTH NOT MORE THAN 11/2 INCHES ON EACH SIDE.

SECTION 1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
1006.1 GENERAL
THE NUMBER OF EXITS OR EXIT ACCESS DOORWAYS REQUIRED WITHIN THE MEANS OF EGRESS SYSTEM SHALL COMPLY WITH THE PROVISIONS OF SECTION 1006.2 FOR SPACES, INCLUDING MEZZANINES, AND SECTION 1006.3 FOR STORIES OR OCCUPIED ROOFS.

1008.3.3 ROOMS AND SPACES
IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING AREAS:
ELECTRICAL EQUIPMENT ROOMS.
FIRE COMMAND CENTERS.
FIRE PUMP ROOMS.
GENERATOR ROOMS.
PUBLIC RESTROOMS WITH AN AREA GREATER THAN 300 SQUARE FEET (27.87 M2).

1008.3.4 DURATION
THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.

SECTION 1013 EXIT SIGNS
1013.1 WHERE REQUIRED
EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE PATH OF EGRESS TRAVEL TO EXITS AND WITHIN EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. INTERVENING MEANS OF EGRESS DOORS WITHIN EXITS SHALL BE MARKED BY EXIT SIGNS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT ANY POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS WITHIN 100 FEET (30 480 MM) OR THE LISTED VIEWING DISTANCE OF THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.
EXCEPTIONS:
EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.
MAIN EXTERIOR EXIT DOORS OR GATES THAT ARE OBVIOUSLY AND CLEARLY IDENTIFIABLE AS EXITS NEED NOT HAVE EXIT SIGNS WHERE APPROVED BY THE BUILDING OFFICIAL.
EXIT SIGNS ARE NOT REQUIRED IN OCCUPANCIES IN GROUP U AND INDIVIDUAL SLEEPING UNITS OR DWELLING UNITS IN GROUP R-1, R-2 OR R-3 OR R-3.1.
EXIT SIGNS ARE NOT REQUIRED WHERE INMATES ARE HOUSED OR HELD IN DAYROOMS, SLEEPING ROOMS OR DORMITORIES IN OCCUPANCIES IN GROUP I-3.
IN OCCUPANCIES IN GROUPS A-4 AND A-5, EXIT SIGNS ARE NOT REQUIRED ON THE SEATING SIDE OF VOMITORIES OR OPENINGS INTO SEATING AREAS WHERE EXIT SIGNS ARE PROVIDED IN THE CONCOURSE THAT ARE READILY APPARENT FROM THE VOMITORIES. EGRESS LIGHTING IS PROVIDED TO IDENTIFY EACH VOMITORY OR OPENING WITHIN THE SEATING AREA IN AN EMERGENCY.

1013.4 RAISED CHARACTER AND BRAILLE EXIT SIGNS
[HCD 1-AC] TACTILE EXIT SIGNS SHALL BE REQUIRED AT THE FOLLOWING LOCATIONS:
EACH GRADE-LEVEL EXTERIOR EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD, "EXIT".
EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF A STAIRWAY OR RAMP SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE FOLLOWING WORDS AS APPROPRIATE:
"EXIT STAIR DOWN"
"EXIT RAMP DOWN"
"EXIT STAIR UP"
"EXIT RAMP UP"
EACH EXIT DOOR THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, AND THAT LEADS DIRECTLY TO A GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR AN EXIT PASSAGEWAY SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS, "EXIT ROUTE."
EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE."
EACH EXIT DOOR THROUGH A HORIZONTAL EXIT THAT IS REQUIRED TO COMPLY WITH SECTION 1013.1, SHALL BE IDENTIFIED BY A SIGN WITH THE WORDS, "TO EXIT."
RAISED CHARACTER AND BRAILLE EXIT SIGNS SHALL COMPLY WITH CHAPTER 11A, SECTION 1143A OR CHAPTER 11B, SECTIONS 11B- 703.1, 11B-703.2, 11B-703.3 AND 11B-703.5.

1013.5 INTERNALLY ILLUMINATED EXIT SIGNS
ELECTRICALLY POWERED, SELF-LUMINOUS AND PHOTOLUMINESCENT EXIT SIGNS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 924 AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CHAPTER 27. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES.

1013.6.3 POWER SOURCE
EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. TO ENSURE CONTINUED ILLUMINATION FOR A DURATION OF NOT LESS THAN 90 MINUTES IN CASE OF PRIMARY POWER LOSS, THE SIGN ILLUMINATION MEANS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM PROVIDED FROM STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH CHAPTER 27. GROUP I-2 EXIT SIGN ILLUMINATION SHALL NOT BE PROVIDED BY UNIT EQUIPMENT BATTERIES ONLY.
EXCEPTION: APPROVED EXIT SIGN ILLUMINATION TYPES THAT PROVIDE CONTINUOUS ILLUMINATION INDEPENDENT OF EXTERNAL POWER SOURCES FOR A DURATION OF NOT LESS THAN 90 MINUTES, IN CASE OF PRIMARY POWER LOSS, ARE NOT REQUIRED TO BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM.

1007.1 GENERAL
EXITS, EXIT ACCESS DOORWAYS, AND EXIT ACCESS STAIRWAYS AND RAMPS SERVING SPACES, INCLUDING INDIVIDUAL BUILDING STORIES, SHALL BE SEPARATED IN ACCORDANCE WITH THE PROVISIONS OF THIS SECTION.

SECTION 1008 MEANS OF EGRESS ILLUMINATION
1008.2 ILLUMINATION REQUIRED
THE MEANS OF EGRESS SERVING A ROOM OR SPACE SHALL BE ILLUMINATED AT ALL TIMES THAT THE ROOM OR SPACE IS OCCUPIED.

1008.3.2 BUILDINGS
IN THE EVENT OF POWER SUPPLY FAILURE IN BUILDINGS THAT REQUIRE TWO OR MORE EXITS OR ACCESS TO EXITS, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE ALL OF THE FOLLOWING AREAS:
INTERIOR EXIT ACCESS STAIRWAYS AND RAMPS.
INTERIOR AND EXTERIOR EXIT STAIRWAYS AND RAMPS.
EXIT PASSAGEWAYS.
VESTIBULES AND AREAS ON THE LEVEL OF DISCHARGE USED FOR EXIT DISCHARGE IN ACCORDANCE WITH SECTION 1028.2.
EXTERIOR LANDINGS AS REQUIRED BY SECTION 1010.1.5 FOR EXIT DOORWAYS THAT LEAD DIRECTLY TO THE EXIT DISCHARGE.
GROUP I-2 AND I-2.1 EXIT DISCHARGE STAIRWAYS, RAMPS, AISLES, WALKWAYS AND ESCALATORS LEADING TO A PUBLIC WAY OR TO A SAFE DISPERSAL AREA IN ACCORDANCE WITH SECTION 1028.5.

SECTION 1016 EXIT ACCESS
1016.2 EGRESS THROUGH INTERVENING SPACES
EGRESS THROUGH INTERVENING SPACES SHALL COMPLY WITH THIS SECTION. EXIT ACCESS THROUGH AN ENCLOSED ELEVATOR LOBBY IS PERMITTED IN OTHER THAN A GROUP I-2 AND I-2.1. WHERE ACCESS TO TWO OR MORE EXITS OR EXIT ACCESS DOORWAYS IS REQUIRED IN SECTION 1006.2.1, ACCESS TO NOT LESS THAN ONE OF THE REQUIRED EXITS SHALL BE PROVIDED WITHOUT TRAVEL THROUGH THE ENCLOSED ELEVATOR LOBBIES REQUIRED BY SECTION 3006. WHERE THE PATH OF EXIT ACCESS TRAVEL PASSES THROUGH AN ENCLOSED ELEVATOR LOBBY, THE LEVEL OF PROTECTION REQUIRED FOR THE ENCLOSED ELEVATOR LOBBY IS NOT REQUIRED TO BE EXTENDED TO THE EXIT UNLESS DIRECT ACCESS TO AN EXIT IS REQUIRED BY OTHER SECTIONS OF THIS CODE.
EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS, EXCEPT WHERE SUCH ADJOINING ROOMS OR AREAS AND THE AREA SERVED ARE ACCESSORY TO ONE OR THE OTHER, ARE NOT A GROUP H OCCUPANCY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TRAVEL TO AN EXIT.
EXCEPTION: MEANS OF EGRESS ARE NOT PROHIBITED THROUGH ADJOINING OR INTERVENING ROOMS OR SPACES IN A GROUP H, S OR F OCCUPANCY WHERE THE ADJOINING OR INTERVENING ROOMS OR SPACES ARE THE SAME OR A LESSER HAZARD OCCUPANCY GROUP.
AN EXIT ACCESS SHALL NOT PASS THROUGH A ROOM THAT CAN BE LOCKED TO PREVENT EGRESS.
MEANS OF EGRESS FROM DWELLING UNITS OR SLEEPING AREAS SHALL NOT LEAD THROUGH OTHER SLEEPING AREAS, TOILET ROOMS OR BATHROOMS. EGRESS SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, CLOSETS OR SPACES USED FOR SIMILAR PURPOSES.
EXCEPTIONS:
MEANS OF EGRESS ARE NOT PROHIBITED THROUGH A KITCHEN AREA SERVING ADJOINING ROOMS CONSTITUTING PART OF THE SAME DWELLING UNIT OR SLEEPING UNIT.
MEANS OF EGRESS ARE NOT PROHIBITED THROUGH STOCKROOMS IN GROUP M OCCUPANCIES WHERE ALL OF THE FOLLOWING ARE MET:
THE STOCK IS OF THE SAME HAZARD CLASSIFICATION AS THAT FOUND IN THE MAIN RETAIL AREA.
NOT MORE THAN 50 PERCENT OF THE EXIT ACCESS IS THROUGH THE STOCKROOM.
THE STOCKROOM IS NOT SUBJECT TO LOCKING FROM THE EGRESS SIDE.
THERE IS A DEMARCATED, MINIMUM 44-INCH-WIDE (1118 MM) AISLE DEFINED BY FULL- OR PARTIAL-HEIGHT FIXED WALLS OR SIMILAR CONSTRUCTION THAT WILL MAINTAIN THE REQUIRED WIDTH AND LEAD DIRECTLY FROM THE RETAIL AREA TO THE EXIT WITHOUT OBSTRUCTIONS.
THE MEANS OF EGRESS SHALL NOT PASS THROUGH ANY ROOM SUBJECT TO LOCKING EXCEPT IN GROUP I-3 OCCUPANCIES CLASSIFIED AS DETENTION FACILITIES AND PSYCHIATRIC TREATMENT AREAS IN GROUP I-2 OCCUPANCIES.

SECTION 1024 EXIT PASSAGEWAYS
1024.2 WIDTH AND CAPACITY
THE REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1 BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES (1118 MM), EXCEPT THAT EXIT PASSAGEWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL BE NOT LESS THAN 36 INCHES (914 MM) IN WIDTH. THE MINIMUM WIDTH OR REQUIRED CAPACITY OF EXIT PASSAGEWAYS SHALL BE UNOBSTRUCTED.
EXCEPTION: ENCROACHMENTS COMPLYING WITH SECTION 1005.7.
THE CLEAR WIDTH OF EXIT PASSAGEWAYS IN A GROUP I-2 OCCUPANCY USED FOR THE MOVEMENT OF BEDS AND LITTERS SHALL BE 44-INCH (1118) MINIMUM.

1024.3 CONSTRUCTION
EXIT PASSAGEWAY ENCLOSURES SHALL HAVE WALLS, FLOORS AND CEILINGS OF NOT LESS THAN A 1-HOUR FIRE-RESISTANCE RATING, AND NOT LESS THAN THAT REQUIRED FOR ANY CONNECTING INTERIOR EXIT STAIRWAY OR RAMP.
EXIT PASSAGEWAYS SHALL BE CONSTRUCTED AS FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.

SECTION 1026 HORIZONTAL EXITS
1026.2 SEPARATION
THE SEPARATION BETWEEN BUILDINGS OR REFUGE AREAS CONNECTED BY A HORIZONTAL EXIT SHALL BE PROVIDED BY A FIRE WALL COMPLYING WITH SECTION 706; OR BY A FIRE BARRIER COMPLYING WITH SECTION 707 OR A HORIZONTAL ASSEMBLY COMPLYING WITH SECTION 711, OR BOTH. THE MINIMUM FIRE-RESISTANCE RATING OF THE SEPARATION SHALL BE 2 HOURS.
OPENING PROTECTIVES IN HORIZONTAL EXITS SHALL ALSO COMPLY WITH SECTION 716. DUCT AND AIR TRANSFER OPENINGS IN A FIRE WALL OR FIRE BARRIER THAT SERVES AS A HORIZONTAL EXIT SHALL ALSO COMPLY WITH SECTION 717. THE HORIZONTAL EXIT SEPARATION SHALL EXTEND VERTICALLY THROUGH ALL LEVELS OF THE BUILDING UNLESS FLOOR ASSEMBLIES HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 2 HOURS AND DO NOT HAVE UNPROTECTED OPENINGS.
EXCEPTION: A FIRE-RESISTANCE RATING IS NOT REQUIRED AT HORIZONTAL EXITS BETWEEN A BUILDING AREA AND AN ABOVE-GRADE PEDESTRIAN WALKWAY CONSTRUCTED IN ACCORDANCE WITH SECTION 3104, PROVIDED THAT THE DISTANCE BETWEEN CONNECTED BUILDINGS IS MORE THAN 20 FEET (6096 MM).
HORIZONTAL EXITS CONSTRUCTED AS FIRE BARRIERS SHALL BE CONTINUOUS FROM EXTERIOR WALL TO EXTERIOR WALL SO AS TO DIVIDE COMPLETELY THE FLOOR SERVED BY THE HORIZONTAL EXIT.

11B-108 MAINTENANCE OF ACCESSIBLE FEATURES
FEATURES, FACILITIES AND EQUIPMENT REQUIRED BY CHAPTER 11B TO BE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES SHALL BE MAINTAINED IN OPERABLE WORKING CONDITION. ISOLATED OR TEMPORARY INTERRUPTIONS IN SERVICE OR ACCESSIBILITY DUE TO MAINTENANCE OR REPAIRS SHALL BE PERMITTED.

11B-201.1 SCOPE
ALL AREAS OF NEWLY DESIGNED AND NEWLY CONSTRUCTED BUILDINGS AND FACILITIES AND ALTERED PORTIONS OF EXISTING BUILDINGS AND FACILITIES SHALL COMPLY WITH THESE REQUIREMENTS.

11B-202.1 GENERAL
ADDITIONS AND ALTERATIONS TO EXISTING BUILDINGS OR FACILITIES SHALL COMPLY WITH SECTION 11B-202.

11B-202.2 ADDITIONS
EACH ADDITION TO AN EXISTING BUILDING OR FACILITY SHALL COMPLY WITH THE REQUIREMENTS FOR NEW CONSTRUCTION AND SHALL COMPLY WITH SECTION 11B-202.4.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
ACCESSIBILITY - NOTES & DETAILS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
A401

1/2" 1" 2"

11B-202.4 PATH OF TRAVEL REQUIREMENTS IN ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS
WHEN ALTERATIONS OR ADDITIONS ARE MADE TO EXISTING BUILDINGS OR FACILITIES, AN ACCESSIBLE PATH OF TRAVEL TO THE SPECIFIC AREA OF ALTERATION OR ADDITION SHALL BE PROVIDED. THE PRIMARY ACCESSIBLE PATH OF TRAVEL SHALL INCLUDE:

1. A PRIMARY ENTRANCE TO THE BUILDING OR FACILITY,
2. TOILET AND BATHING FACILITIES SERVING THE AREA,
3. DRINKING FOUNTAINS SERVING THE AREA,
4. PUBLIC TELEPHONES SERVING THE AREA, AND
5. SIGNS.

EXCEPTIONS:
ADDITIONS OR ALTERATIONS TO MEET ACCESSIBILITY REQUIREMENTS CONSISTING OF ONE OR MORE OF THE FOLLOWING ITEMS SHALL BE LIMITED TO THE ACTUAL SCOPE OF WORK OF THE PROJECT AND SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-202.4:

1. ALTERING ONE BUILDING ENTRANCE.
2. ALTERING ONE EXISTING TOILET FACILITY.
3. ALTERING EXISTING ELEVATORS.
4. ALTERING EXISTING STEPS.
5. ALTERING EXISTING HANDRAILS.

ALTERATIONS SOLELY FOR THE PURPOSE OF BARRIER REMOVAL UNDERTAKEN PURSUANT TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (PUBLIC LAW 101-336, 28 C.F.R. SECTION 36.304) OR THE ACCESSIBILITY REQUIREMENTS OF THIS CODE AS THOSE REQUIREMENTS OR REGULATIONS NOW EXIST OR ARE HEREAFTER AMENDED INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING ITEMS SHALL BE LIMITED TO THE ACTUAL SCOPE OF WORK OF THE PROJECT AND SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-202.4:

1. INSTALLING RAMPS.
2. MAKING CURB CUTS IN SIDEWALKS AND ENTRANCE.
3. REPOSITIONING SHELVES.
4. REARRANGING TABLES, CHAIRS, VENDING MACHINES, DISPLAY RACKS AND OTHER FURNITURE.
5. REPOSITIONING TELEPHONES.
6. ADDING RAISED MARKINGS ON ELEVATOR CONTROL BUTTONS.
7. INSTALLING FLASHING ALARM LIGHTS.
8. WIDENING DOORS.
9. INSTALLING OFFSET HINGES TO WIDEN DOORWAYS.
10. ELIMINATING A TURNSTILE OR PROVIDING AN ALTERNATIVE ACCESSIBLE ROUTE.
11. INSTALLING ACCESSIBLE DOOR HARDWARE.
12. INSTALLING GRAB BARS IN TOILET STALLS.
13. REARRANGING TOILET PARTITIONS TO INCREASE MANEUVERING SPACE.
14. INSULATING LAVATORY PIPES UNDER SINKS TO PREVENT BURNS.
15. INSTALLING A RAISED TOILET SEAT.
16. INSTALLING A FULL-LENGTH BATHROOM MIRROR.
17. REPOSITIONING THE PAPER TOWEL DISPENSER IN A BATHROOM.
18. CREATING DESIGNATED ACCESSIBLE PARKING SPACES.
19. REMOVING HIGH-PILE, LOW-DENSITY CARPETING.

ALTERATIONS OF EXISTING PARKING LOTS BY RESURFACING AND/OR RESTRIPING SHALL BE LIMITED TO THE ACTUAL SCOPE OF WORK OF THE PROJECT AND SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-202.4.

THE ADDITION OR REPLACEMENT OF SIGNS AND/OR IDENTIFICATION DEVICES SHALL BE LIMITED TO THE ACTUAL SCOPE OF WORK OF THE PROJECT AND SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-202.4.

PROJECTS CONSISTING ONLY OF HEATING, VENTILATION, AIR CONDITIONING, REROOFING, ELECTRICAL WORK NOT INVOLVING PLACEMENT OF SWITCHES AND RECEPTACLES, COSMETIC WORK THAT DOES NOT AFFECT ITEMS REGULATED BY THIS CODE, SUCH AS PAINTING, EQUIPMENT NOT CONSIDERED TO BE A PART OF THE ARCHITECTURE OF THE BUILDING OR AREA, SUCH AS COMPUTER TERMINALS AND OFFICE EQUIPMENT SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-202.4 UNLESS THEY AFFECT THE USABILITY OF THE BUILDING OR FACILITY.

WHEN THE ADJUSTED CONSTRUCTION COST, AS DEFINED, IS LESS THAN OR EQUAL TO THE CURRENT VALUATION THRESHOLD, AS DEFINED, THE COST OF COMPLIANCE WITH SECTION 11B-202.4 SHALL BE LIMITED TO 20 PERCENT OF THE ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS. WHEN THE COST OF FULL COMPLIANCE WITH SECTION 11B-202.4 WOULD EXCEED 20 PERCENT, COMPLIANCE SHALL BE PROVIDED TO THE GREATEST EXTENT POSSIBLE WITHOUT EXCEEDING 20 PERCENT.

WHEN THE ADJUSTED CONSTRUCTION COST, AS DEFINED, EXCEEDS THE CURRENT VALUATION THRESHOLD, AS DEFINED, AND THE ENFORCING AGENCY DETERMINES THE COST OF COMPLIANCE WITH SECTION 11B-202.4 IS AN UNREASONABLE HARDSHIP, AS DEFINED, FULL COMPLIANCE WITH SECTION 11B-202.4 SHALL NOT BE REQUIRED. COMPLIANCE SHALL BE PROVIDED BY EQUIVALENT FACILITATION OR TO THE GREATEST EXTENT POSSIBLE WITHOUT CREATING AN UNREASONABLE HARDSHIP; BUT IN NO CASE SHALL THE COST OF COMPLIANCE BE LESS THAN 20 PERCENT OF THE ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS. THE DETAILS OF THE FINDING OF UNREASONABLE HARDSHIP SHALL BE RECORDED AND ENTERED INTO THE FILES OF THE ENFORCING AGENCY AND SHALL BE SUBJECT TO CHAPTER 1, SECTION 1.9.1.5, SPECIAL CONDITIONS FOR PERSONS WITH DISABILITIES REQUIRING APPEALS ACTION RATIFICATION.
FOR THE PURPOSES OF THIS EXCEPTION, THE ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS SHALL NOT INCLUDE THE COST OF ALTERATIONS TO PATH OF TRAVEL ELEMENTS REQUIRED TO COMPLY WITH SECTION 11B-202.4.

IN CHOOSING WHICH ACCESSIBLE ELEMENTS TO PROVIDE, PRIORITY SHOULD BE GIVEN TO THOSE ELEMENTS THAT WILL PROVIDE THE GREATEST ACCESS IN THE FOLLOWING ORDER:

1. AN ACCESSIBLE ENTRANCE;
2. AN ACCESSIBLE ROUTE TO THE ALTERED AREA;
3. AT LEAST ONE ACCESSIBLE RESTROOM FOR EACH SEX OR ONE ACCESSIBLE UNISEX (SINGLE-USER OR FAMILY) RESTROOM;
4. ACCESSIBLE TELEPHONES;
5. ACCESSIBLE DRINKING FOUNTAINS; AND
6. WHEN POSSIBLE, ADDITIONAL ACCESSIBLE ELEMENTS SUCH AS PARKING, SIGNS, STORAGE AND ALARMS.

IF AN AREA HAS BEEN ALTERED WITHOUT PROVIDING AN ACCESSIBLE PATH OF TRAVEL TO THAT AREA, AND SUBSEQUENT ALTERATIONS OF THAT AREA OR A DIFFERENT AREA ON THE SAME PATH OF TRAVEL ARE UNDERTAKEN WITHIN THREE YEARS OF THE ORIGINAL ALTERATION, THE TOTAL COST OF ALTERATIONS TO THE AREAS ON THAT PATH OF TRAVEL DURING THE PRECEDING THREE-YEAR PERIOD SHALL BE CONSIDERED IN DETERMINING WHETHER THE COST OF MAKING THAT PATH OF TRAVEL ACCESSIBLE IS DISPROPORTIONATE

ALTERATIONS SOLELY FOR THE PURPOSE OF INSTALLING ELECTRIC VEHICLE CHARGING STATIONS (EVCS) AT FACILITIES WHERE VEHICLE FUELING, RECHARGING, PARKING OR STORAGE IS A PRIMARY FUNCTION SHALL COMPLY WITH SECTION 11B-202.4 TO THE MAXIMUM EXTENT FEASIBLE WITHOUT EXCEEDING 20 PERCENT OF THE COST OF THE WORK DIRECTLY ASSOCIATED WITH THE INSTALLATION OF EVCS. A "PRIMARY FUNCTION" IS A MAJOR ACTIVITY FOR WHICH THE FACILITY IS INTENDED.
ALTERATIONS SOLELY FOR THE PURPOSE OF INSTALLING EVCS AT FACILITIES WHERE VEHICLE FUELING, RECHARGING, PARKING OR STORAGE IS NOT A PRIMARY FUNCTION SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-202.4

CERTAIN TYPES OF PRIVATELY FUNDED, MULTISTORY BUILDINGS AND FACILITIES WERE FORMERLY EXEMPT FROM ACCESSIBILITY REQUIREMENTS ABOVE AND BELOW THE FIRST FLOOR UNDER THIS CODE, BUT AS OF APRIL 1, 1994 ARE NO LONGER EXEMPT DUE TO MORE RESTRICTIVE PROVISIONS IN THE FEDERAL AMERICANS WITH DISABILITIES ACT. IN ALTERATION PROJECTS INVOLVING BUILDINGS AND FACILITIES PREVIOUSLY APPROVED AND BUILT WITHOUT ELEVATORS, AREAS ABOVE AND BELOW THE GROUND FLOOR ARE SUBJECT TO THE 20-PERCENT DISPROPORTIONALITY PROVISIONS DESCRIBED IN EXCEPTION 8, ABOVE, EVEN IF THE VALUE OF THE PROJECT EXCEEDS THE VALUATION THRESHOLD IN EXCEPTION 8. THE TYPES OF BUILDINGS AND FACILITIES ARE:

1. OFFICE BUILDINGS AND PASSENGER VEHICLE SERVICE STATIONS OF THREE STORIES OR MORE AND 3,000 OR MORE SQUARE FEET PER FLOOR.
2. OFFICES OF PHYSICIANS AND SURGEONS.
3. SHOPPING CENTERS.
4. OTHER BUILDINGS AND FACILITIES THREE STORIES OR MORE AND 3,000 OR MORE SQUARE FEET (279 M2) PER FLOOR IF A REASONABLE PORTION OF SERVICES SOUGHT AND USED BY THE PUBLIC IS AVAILABLE ON THE ACCESSIBLE LEVEL.
5. FOR THE GENERAL PRIVATELY FUNDED MULTISTORY BUILDING EXCEPTION APPLICABLE TO NEW CONSTRUCTION AND ALTERATIONS, SEE SECTION 11B-206.2.3, EXCEPTION 1.
6. THE ELEVATOR EXCEPTION SET FORTH IN THIS SECTION DOES NOT OBVIATE OR LIMIT IN ANY WAY THE OBLIGATION TO COMPLY WITH THE OTHER ACCESSIBILITY REQUIREMENTS IN THIS CODE. FOR EXAMPLE, FLOORS ABOVE OR BELOW THE ACCESSIBLE GROUND FLOOR MUST MEET THE REQUIREMENTS OF THIS SECTION EXCEPT FOR ELEVATOR SERVICE. IF TOILET OR BATHING FACILITIES ARE PROVIDED ON A LEVEL NOT SERVED BY AN ELEVATOR, THEN TOILET OR BATHING FACILITIES MUST BE PROVIDED ON THE ACCESSIBLE GROUND FLOOR.

<u>RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION CBC11B-405.</u>

EXCEPTION: IN ASSEMBLY AREAS, AISLE RAMPS ADJACENT TO SEATING AND NOT SERVING ELEMENTS REQUIRED TO BE ON AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-405.

11B-405.2 SLOPE
RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12.

11B-405.3 CROSS SLOPE
CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48.

11B-405.4 FLOOR OR GROUND SURFACES
FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS.

11B-405.5 CLEAR WIDTH
THE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES MINIMUM.
EXCEPTIONS:
WITHIN EMPLOYEE WORK AREAS, THE REQUIRED CLEAR WIDTH OF RAMPS THAT ARE A PART OF COMMON USE CIRCULATION PATHS SHALL BE PERMITTED TO BE DECREASED BY WORK AREA EQUIPMENT PROVIDED THAT THE DECREASE IS ESSENTIAL TO THE FUNCTION OF THE WORK BEING PERFORMED.
HANDRAILS MAY PROJECT INTO THE REQUIRED CLEAR WIDTH OF THE RAMP AT EACH SIDE 31/2 INCHES (89 MM) MAXIMUM AT THE HANDRAIL HEIGHT.
THE CLEAR WIDTH OF RAMPS IN RESIDENTIAL USES SERVING AN OCCUPANT LOAD OF FIFTY OR LESS SHALL BE 36 INCHES MINIMUM BETWEEN HANDRAILS.

11B-405.6 RISE
THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM.

11B-405.7 LANDINGS
RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. LANDINGS SHALL COMPLY WITH SECTION 11B-405.7.

11B-405.7.1 SLOPE
CHANGES IN LEVEL, SLOPES EXCEEDING 1:48, AND DETECTABLE WARNINGS SHALL NOT BE PERMITTED.

11B-405.7.2 WIDTH
THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING.

11B-405.7.2.1
TOP LANDINGS SHALL BE 60 INCHES WIDE MINIMUM.

11B-405.7.3 LENGTH
THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM.

11B-405.7.3.1
BOTTOM LANDINGS SHALL EXTEND 72 INCHES MINIMUM IN THE DIRECTION OF RAMP RUN.

11B-405.7.4 CHANGE IN DIRECTION
RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 72 INCHES MINIMUM IN THE DIRECTION OF DOWNWARD TRAVEL FROM THE UPPER RAMP RUN.

11B-405.7.5 DOORWAYS
WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY SECTIONS 11B-404.2.4 AND

11B-404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. DOORS, WHEN FULLY OPEN, SHALL NOT REDUCE THE REQUIRED RAMP LANDING WIDTH BY MORE THAN 3 INCHES. DOORS, IN ANY POSITION, SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE RAMP LANDING TO LESS THAN 42 INCHES.

11B-405.8 HANDRAILS
RAMP RUNS SHALL HAVE HANDRAILS COMPLYING WITH SECTION 11B-505.

EXCEPTIONS:
CURB RAMPS DO NOT REQUIRE HANDRAILS.
AT DOOR LANDINGS, HANDRAILS ARE NOT REQUIRED ON RAMP RUNS LESS THAN 6 INCHES IN RISE OR 72 INCHES IN LENGTH.

11B-405.9 EDGE PROTECTION
EDGE PROTECTION COMPLYING WITH SECTION 11B-405.9.2 SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS.

EXCEPTIONS:
EDGE PROTECTION SHALL NOT BE REQUIRED ON RAMPS THAT ARE NOT REQUIRED TO HAVE HANDRAILS AND HAVE SIDES COMPLYING WITH SECTION

11B-406.2.2.
EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS SERVING AN ADJOINING RAMP RUN OR STAIRWAY.
EDGE PROTECTION SHALL NOT BE REQUIRED ON THE SIDES OF RAMP LANDINGS HAVING A VERTICAL DROP-OFF OF 1/2 INCH MAXIMUM WITHIN 10 INCHES HORIZONTALLY OF THE MINIMUM LANDING AREA SPECIFIED IN SECTION 11B-405.7.

11B-405.9.2 CURB OR BARRIER
A CURB OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4-INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF THE RAMP.

11B-405.10 WET CONDITIONS
LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER

<u>11B-505 HANDRAILS</u>
11B-505.1 GENERAL
HANDRAILS PROVIDED ALONG WALKING SURFACES COMPLYING WITH SECTION 11B-403, REQUIRED AT RAMPS COMPLYING WITH SECTION 11B-405, AND REQUIRED AT STAIRS COMPLYING WITH SECTION 11B-504 SHALL COMPLY WITH SECTION 11B-505.

11B-505.2 WHERE REQUIRED
HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.

11B-505.3 CONTINUITY
HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS.

11B-505.4 HEIGHT
TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.

11B-505.5 CLEARANCE
CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL BE 11/2 INCHES MINIMUM. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS 3 INCHES (76 MM) MAXIMUM DEEP AND 18 INCHES MINIMUM CLEAR ABOVE THE TOP OF THE HANDRAIL.

11B-505.6 GRIPPING SURFACE
HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH. WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1-1/2 INCHES MINIMUM BELOW THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE.

EXCEPTIONS:
WHERE HANDRAILS ARE PROVIDED ALONG WALKING SURFACES WITH SLOPES NOT STEEPER THAN 1:20, THE BOTTOMS OF HANDRAIL GRIPPING SURFACES SHALL BE PERMITTED TO BE OBSTRUCTED ALONG THEIR ENTIRE LENGTH WHERE THEY ARE INTEGRAL TO CRASH RAILS OR BUMPER GUARDS.
THE DISTANCE BETWEEN HORIZONTAL PROJECTIONS AND THE BOTTOM OF THE GRIPPING SURFACE SHALL BE PERMITTED TO BE REDUCED BY 1/8 INCH FOR EACH 1/2 INCH OF ADDITIONAL HANDRAIL PERIMETER DIMENSION THAT EXCEEDS 4 INCHES.

11B-505.7 CROSS SECTION
HANDRAIL GRIPPING SURFACES SHALL HAVE A CROSS SECTION COMPLYING WITH SECTION 11B-505.7.1 OR 11B-505.7.2.

11B-505.7.1 CIRCULAR CROSS SECTION
HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4 INCHES MINIMUM AND 2 INCHES MAXIMUM.

11B-505.7.2 NON-CIRCULAR CROSS SECTIONS
HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 6-1/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 2-1/4 INCHES MAXIMUM.

11B-505.8 SURFACES
HANDRAIL GRIPPING SURFACES AND ANY SURFACES ADJACENT TO THEM SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS AND SHALL HAVE ROUNDED EDGES.

11B-505.9 FITTINGS
HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

11B-505.10 HANDRAIL EXTENSIONS
HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH SECTION 11B-505.10.

EXCEPTIONS:
EXTENSIONS SHALL NOT BE REQUIRED FOR CONTINUOUS HANDRAILS AT THE INSIDE TURN OF SWITCHBACK OR DOGLEG STAIRS AND RAMPS.
IN ASSEMBLY AREAS, EXTENSIONS SHALL NOT BE REQUIRED FOR RAMP HANDRAILS IN AISLES SERVING SEATING WHERE THE HANDRAILS ARE DISCONTINUOUS TO PROVIDE ACCESS TO SEATING AND TO PERMIT CROSSOVERS WITHIN AISLES.
IN ALTERATIONS, WHERE THE EXTENSION OF THE HANDRAIL IN THE DIRECTION OF STAIR FLIGHT OR RAMP RUN WOULD CREATE A HAZARD, THE EXTENSION OF THE HANDRAIL MAY BE TURNED 90 DEGREES FROM THE DIRECTION OF STAIR FLIGHT OR RAMP RUN.

11B-505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS
RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.

RAMPS ON ACCESSIBLE ROUTES SHALL COMPLY WITH SECTION CBC11B-405.

EXCEPTION: IN ASSEMBLY AREAS, AISLE RAMPS ADJACENT TO SEATING AND NOT SERVING ELEMENTS REQUIRED TO BE ON AN ACCESSIBLE ROUTE SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-405.

1011.2 STAIR WIDTH AND CAPACITY
THE REQUIRED CAPACITY OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1, BUT THE MINIMUM WIDTH SHALL BE NOT LESS THAN 44 INCHES. SEE SECTION 1009.3 FOR ACCESSIBLE MEANS OF EGRESS STAIRWAYS.
EXCEPTIONS:
STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES.

1011.5.2 RISER HEIGHT AND TREAD DEPTH
STAIR RISER HEIGHTS SHALL BE 7 INCHES MAXIMUM AND 4 INCHES MINIMUM. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN THE NOSINGS OF ADJACENT TREADS OR BETWEEN THE STAIRWAY LANDING AND THE ADJACENT TREAD. RECTANGULAR TREAD DEPTHS SHALL BE 11 INCHES MINIMUM MEASURED HORIZONTALLY BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AND AT A RIGHT ANGLE TO THE TREAD'S NOSING. WINDER TREADS SHALL HAVE A MINIMUM TREAD DEPTH OF 11 INCHES BETWEEN THE VERTICAL PLANES OF THE FOREMOST PROJECTION OF ADJACENT TREADS AT THE INTERSECTIONS WITH THE WALKLINE AND A MINIMUM TREAD DEPTH OF 10 INCHES WITHIN THE CLEAR WIDTH OF THE STAIR.

1011.5.4 DIMENSIONAL UNIFORMITY
STAIR TREADS AND RISERS SHALL BE OF UNIFORM SIZE AND SHAPE. THE TOLERANCE BETWEEN THE LARGEST AND SMALLEST RISER HEIGHT OR BETWEEN THE LARGEST AND SMALLEST TREAD DEPTH SHALL NOT EXCEED 3/8 INCH IN ANY FLIGHT OF STAIRS. THE GREATEST WINDER TREAD DEPTH AT THE WALKLINE WITHIN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8 INCH.

1011.5.4.1 NONUNIFORM HEIGHT RISERS
WHERE THE BOTTOM OR TOP RISER ADJOINS A SLOPING PUBLIC WAY, WALKWAY OR DRIVEWAY HAVING AN ESTABLISHED GRADE AND SERVING AS A LANDING, THE BOTTOM OR TOP RISER IS PERMITTED TO BE REDUCED ALONG THE SLOPE TO LESS THAN 4 INCHES IN HEIGHT, WITH THE VARIATION IN HEIGHT OF THE BOTTOM OR TOP RISER NOT TO EXCEED ONE UNIT VERTICAL IN 12 UNITS HORIZONTAL (8-PERCENT SLOPE) OF STAIR WIDTH. THE NOSINGS OR LEADING EDGES OF TREADS AT SUCH NONUNIFORM HEIGHT RISERS SHALL HAVE A DISTINCTIVE MARKING STRIPE, DIFFERENT FROM ANY OTHER NOSING MARKING PROVIDED ON THE STAIR FLIGHT. THE DISTINCTIVE MARKING STRIPE SHALL BE VISIBLE IN DESCENT OF THE STAIR AND SHALL HAVE A SLIP-RESISTANT SURFACE. MARKING STRIPES SHALL HAVE A WIDTH OF NOT LESS THAN 1 INCH BUT NOT MORE THAN 2 INCHES.

1011.6 STAIRWAY LANDINGS
THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH OF LANDINGS, MEASURED PERPENDICULARLY TO THE DIRECTION OF TRAVEL, SHALL BE NOT LESS THAN THE WIDTH OF STAIRWAYS SERVED. EVERY LANDING SHALL HAVE A MINIMUM DEPTH, MEASURED PARALLEL TO THE DIRECTION OF TRAVEL, EQUAL TO THE WIDTH OF THE STAIRWAY OR 48 INCHES, WHICHEVER IS LESS. DOORS OPENING ONTO A LANDING SHALL NOT REDUCE THE LANDING TO LESS THAN ONE-HALF THE REQUIRED WIDTH. WHEN FULLY OPEN, THE DOOR SHALL NOT PROJECT MORE THAN 7 INCHES INTO THE REQUIRED WIDTH OF A LANDING. WHERE WHEELCHAIR SPACES ARE REQUIRED ON THE STAIRWAY LANDING IN ACCORDANCE WITH SECTION 1009.6.3, THE WHEELCHAIR SPACE SHALL NOT BE LOCATED IN THE REQUIRED WIDTH OF THE LANDING AND DOORS SHALL NOT SWING OVER THE WHEELCHAIR SPACES.

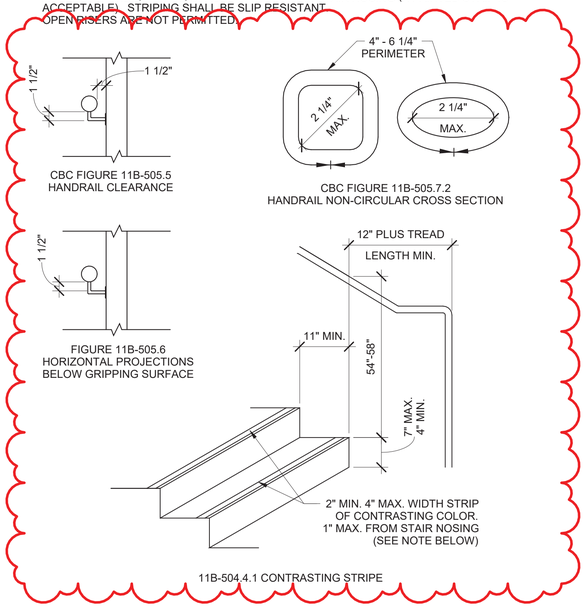
<u>HANDRAIL NOTES</u>
HANDRAIL 1 1/4"-1 1/2" DIA. 34"-38" ABOVE STAIR NOSING OR RAMP SURFACE. 12" BEYOND TOP RISER. 12" PLUS TREAD LENGTH BEYOND BOTTOM RISER.
HANDRAILS MUST BE ABLE TO RESIST THE FOLLOWING LOADS: A 200 LB POINT LOAD OR A 50 LBS PER FOOT LOAD WHERE THESE LOADS ARE APPLIED IN ANY DIRECTION.
HAND RAILS SHALL BE RETURNED TO THE FLOOR OR A WALL.
HANDRAILS PROJECTING FROM A WALL SHALL A SPACE OF 1-1/2" FROM THE WALL.
ADJACENT TO THE HANDRAIL THE WALL SHALL HAVE NOT HAVE A ROUGH OR ABRASIVE SURFACE.
HANDRAIL ASSEMBLIES AND GUARDS SHALL BE MOUNTED SO THAT THE COMPLETED RAIL AND SUPPORTING STRUCTURE ARE CAPABLE OF WITHSTANDING A CONCENTRATED LOAD OF 200-LBS APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP

WHEREVER THE HEIGHT OF THE TREAD ABOVE THE ADJOINING SURFACE EXCEEDS 30" PROVIDE INTERMEDIATE RAILS OR BALUSTERS TO PREVENT THE PASSAGE OF A 4" SPHERE

INTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND LOWER TREAD MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST. EXTERIOR STAIRS SHALL HAVE THE UPPER APPROACH AND ALL TREADS MARKED BY A STRIPE PROVIDING CLEAR VISUAL CONTRAST.

THE STRIPE SHALL BE A MINIMUM OF 2 INCHES WIDE TO A MAXIMUM OF 4 INCHES WIDE PLACED PARALLEL TO, AND NOT MORE THAN 1 INCH FROM, THE NOSE OF THE STEP OR UPPER APPROACH. THE STRIPE SHALL EXTEND THE FULL WIDTH OF THE STEP OR UPPER APPROACH AND SHALL BE OF MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR. A PAINTED STRIPE SHALL BE ACCEPTABLE. GROOVES SHALL NOT BE USED TO SATISFY THIS REQUIREMENT.

<u>STAIR NOTES</u>
7" MAXIMUM, 4" MINIMUM RISER HEIGHT, 11" MINIMUM RUN AS MEASURED FROM THE FRONTS OF THE STEP NOSING EXCEPT FOR THE BOTTOM RISER.
THE NOSING SHALL NOT PROJECT MORE THAN 1-1/2" PAST THE FACE OF THE RISER BELOW.
RISERS SHALL BE SLOPED OR THE UNDERSIDE OF THE NOSING SHALL HAVE AN ANGLE NOT LESS THAN 60-DEGREES FROM THE HORIZONTAL.
RISERS SHALL NOT VARY BY MORE THAN 3/8" IN DIMENSION FROM LEAST TO GREATEST WITHIN THE FLIGHT OF STAIRS.
BOTTOM RISER MAY VARY TO MATCH SLOPE OF WALK 4" MINIMUM. 7" MAX. TREADS SHALL NOT VARY IN DIMENSION MORE THAN 3/8" FROM LEAST TO GREATEST WITH THE FLIGHT OF STAIRS.
THE UPPER APPROACH AND LOWER TREAD TO EACH STAIR (AND ALL STAIRWAY TREADS OUTSIDE A BUILDING) ARE TO BE MARKED BY A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, 4" MAX., SPACED 1" MAX. FROM STAIR NOSING (A PAINTED STRIP IS ACCEPTABLE). STRIPING SHALL BE SLIP RESISTANT.
OPEN RISERS ARE NOT PERMITTED.



TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
ACCESSIBILITY - NOTES & DETAILS

DEL NORTE COUNTY, CALIFORNIA

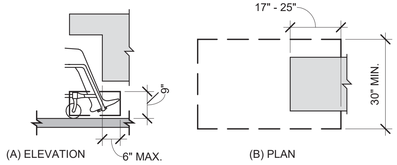
DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

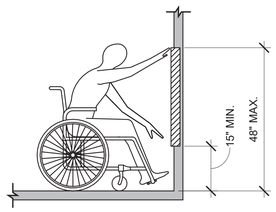
PROJECT NO:
484.2022.03

DRAWING NO:
A402

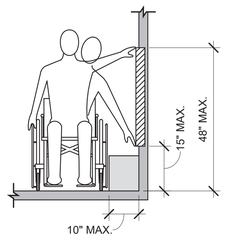
1/2" 1" 2"



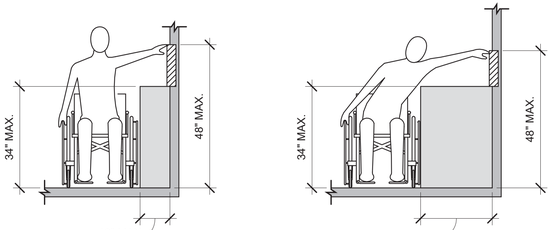
CBC FIGURE 306.2
TOE CLEARANCE



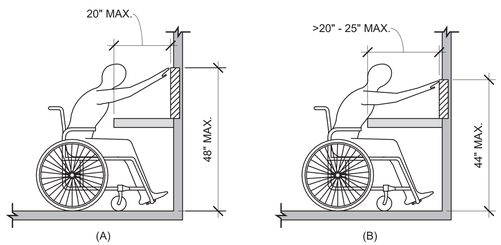
CBC FIGURE 308.2.1
UNOBSTRUCTED FORWARD REACH



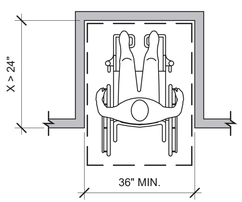
CBC FIGURE 308.3.1
UNOBSTRUCTED SIDE REACH



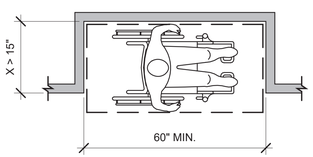
CBC FIGURE 308.3.2
OBSTRUCTED HIGH SIDE REACH



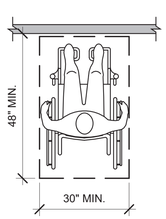
CBC FIGURE 308.2.2
OBSTRUCTED HIGH FORWARD REACH

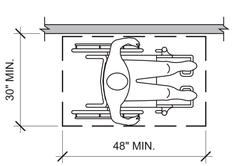


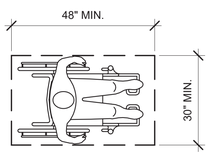
CBC FIGURE 305.7.1
MANEUVERING CLEARANCIN AN ALCOVE,
FORWARD APPROACH



CBC FIGURE 305.7.2
MANEUVERING CLEARANCE IN AN ALCOVE, PARALLEL APPROACH



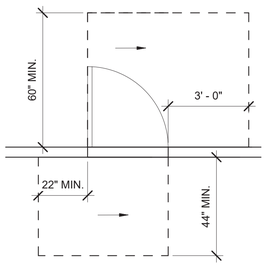




CBC FIGURE 305.3
CLEAR FLOOR OR GROUND SPACE

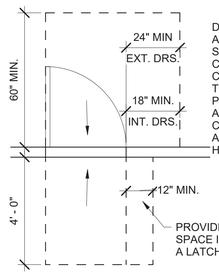
CBC FIGURE 305.5
POSITION OF CLEAR FLOOR OR GROUND SPACE

HINGE APPROACH
PULL SIDE



HINGE APPROACH
PUSH SIDE

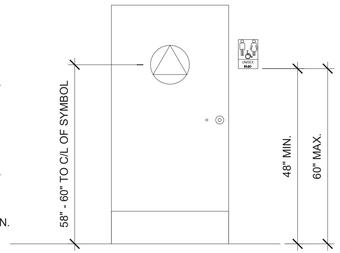
REQ'D CLR. SPACE (DASHED) TYP.
2% MAX SLOPE ANY DIRECTION



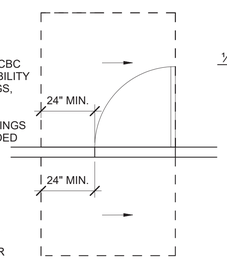
DOORS AND ACCESSIBILITY STANDARDS SHALL COMPLY WITH 2019 CBC CHPT. 11B ACCESSIBILITY TO PUBLIC BUILDINGS, PUBLIC ACCOMMODATION, COMMERCIAL BUILDINGS AND PUBLICLY FUNDED HOUSING

PROVIDE THIS ADDITIONAL SPACE IF DOOR HAS BOTH A LATCH AND SELF CLOSER

FRONT APPROACH



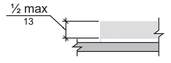
LATCH APPROACH
PUSH SIDE



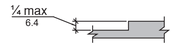
LATCH APPROACH
PULL SIDE

1/4" MAX. VERT. STEP, OR 1/2" MAX. BEVELED @ 1:2 GRADIENT TYP.
ALL PATHS OF TRAVEL

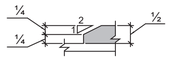
(SLOPE MAY BE CHECKED w/ A 2' SMART LEVEL; POUR ALL SLOPES UNDER RECOMMENDED MAX. TO ALLOW FOR VARIANCES)



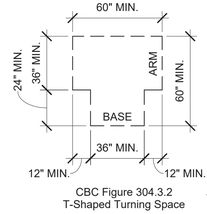
CBC FIGURE 302.2
CARPET PILE HEIGHT



CBC FIGURE 303.2
VERTICAL CHANGE IN LEVEL

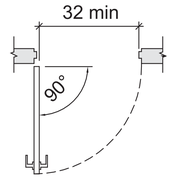


CBC FIGURE 303.3
BEVELED CHANGE IN LEVEL



CBC Figure 304.3.2
T-Shaped Turning Space

SIGNAGE ON DOOR
SCALE: NTS



(A)
HINGED DOOR

11B-404.2.3 CLEAR WIDTH
DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

EXCEPTIONS:
IN ALTERATIONS, A PROJECTION OF 5/8 INCH MAXIMUM INTO THE REQUIRED CLEAR WIDTH SHALL BE PERMITTED FOR THE LATCH SIDE STOP. DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

(B)
SLIDING DOOR

(C)
FOLDING DOOR

CBC FIGURE 11B–404.2.3
CLEAR WIDTH OF DOORWAYS

GENERAL ACCESSIBILITY NOTES

1. FLOOR AND GROUND SURFACES SHALL BE STABLE FIRM AND SLIP RESISTANT
2. OVERHANG OBSTRUCTIONS LESS THAN 80" ABOVE PEDESTRIAN WAYS, PLATFORMS OR RAMPS ARE NOT ALLOWED.
3. PROVIDE MIN. 80" HEAD ROOM IN ALL CIRCULATION SPACES AND WALKWAYS.
4. OBJECTS MAY NOT REDUCE THE CLEAR WITH OF AN ACCESSIBLE ROUTE OR MANEUVERINGS SPACE.
5. THE MAXIMUM HEIGHT FOR CONTROLS, SWITCHES, RECEPTACLES, OUTLETS AND THERMOSTATS IS 48" MEASURED TO THE TOP OF THE BOX TO THE LEVEL OF FINISH FLOOR OR WORKING PLATFORM. THE MINIMUM HEIGHT FOR RECEPTACLES IS 13" MEASURED TO THE BOTTOM OF THE BOX TO THE LEVEL OF FINISHED FLOOR OR WORKING PLATFORM.

SINGLE-SERVICE DISPENSERS AT, OR ADJACENT TO, EACH HAND WASHING FACILITY:

A. HAND WASHING CLEANSER

B. SANITARY SINGLE USE TOWELS OR A HEATED -AIR HAND DRYING DEVICE. WITH OPERABLE PARTS LOCATED A MAXIMUM OF 40" ABOVE FLOOR

EXCEPT AS PROVIDED IN SECTIONS 11B-403.5.2 AND 11B-403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM.

EXCEPTIONS:

THE CLEAR WIDTH SHALL BE PERMITTED TO BE REDUCED TO 32 INCHES MINIMUM FOR A LENGTH OF 24 INCHES MAXIMUM PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MINIMUM AND 36 INCHES WIDE MINIMUM.

THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MINIMUM.

THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM. WHEN, BECAUSE OF RIGHT-OF-WAY RESTRICTIONS, NATURAL BARRIERS OR OTHER EXISTING CONDITIONS, THE ENFORCING AGENCY DETERMINES THAT COMPLIANCE WITH THE 48-INCH CLEAR SIDEWALK WIDTH WOULD CREATE AN UNREASONABLE HARDSHIP, THE CLEAR WIDTH MAY BE REDUCED TO 36 INCHES.

THE CLEAR WIDTH FOR AISLES SHALL BE 36 INCHES MINIMUM IF SERVING ELEMENTS ON ONLY ONE SIDE, AND 44 INCHES MINIMUM IF SERVING ELEMENTS ON BOTH SIDES.

THE CLEAR WIDTH FOR ACCESSIBLE ROUTES TO ACCESSIBLE TOILET COMPARTMENTS SHALL BE 44 INCHES EXCEPT FOR DOOR-OPENING WIDTHS AND DOOR SWINGS.

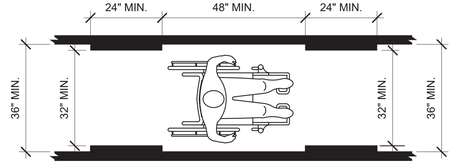
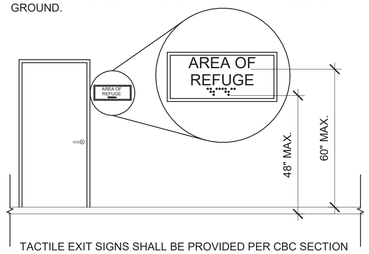


FIGURE 403.5.1
CLEAR WIDTH OF AN ACCESSIBLE ROUTE

HEIGHT OF TACTILE CHARACTERS ABOVE FINISH FLOOR OR GROUND.

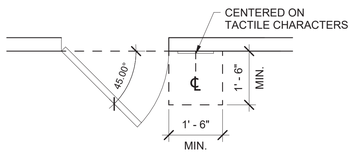


TACTILE EXIT SIGNS SHALL BE PROVIDED PER CBC SECTION 11B-703.1, 11B-703.2, 11B-703.3, AND 11B-703.5

EACH GRADE LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT"

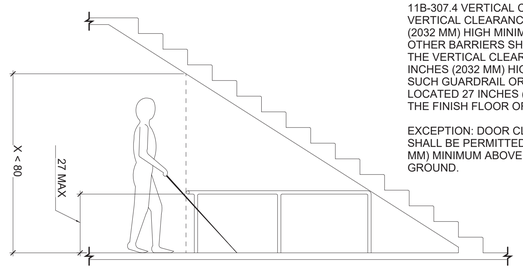
11B-703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND

TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST LINE OF RAISED CHARACTERS.



11B-703.4.2 LOCATION

WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES (457 MM) MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PROVIDED, SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL BE LOCATED AT THE ENTRANCE TO, AND OUTSIDE OF THE ROOM OR SPACE. WHERE PROVIDED, SIGNS IDENTIFYING EXITS SHALL BE LOCATED AT THE EXIT DOOR WHEN APPROACHED IN THE DIRECTION OF EGRESS TRAVEL.



VERTICAL CLEARANCE

11B-307.4 VERTICAL CLEARANCE
VERTICAL CLEARANCE SHALL BE 80 INCHES (2032 MM) HIGH MINIMUM. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE IS LESS THAN 80 INCHES (2032 MM) HIGH. THE LEADING EDGE OF SUCH GUARDRAIL OR BARRIER SHALL BE LOCATED 27 INCHES (686 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND.

EXCEPTION: DOOR CLOSERS AND DOOR STOPS SHALL BE PERMITTED TO BE 78 INCHES (1981 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. REYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
ACCESSIBILITY - NOTES & DETAILS

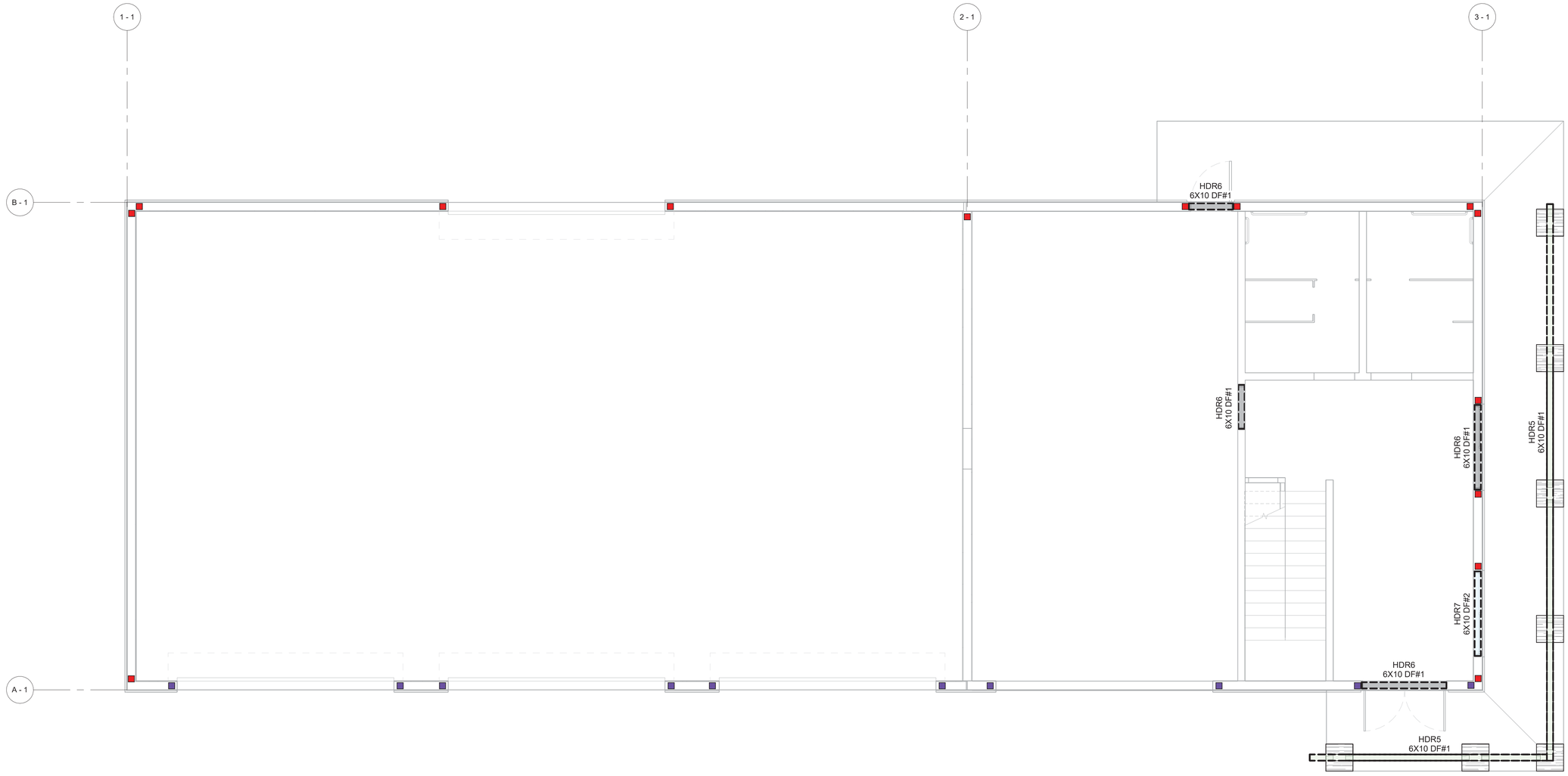
DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
A403



LEVEL 1 – HEADERS & HARDWARE
SCALE: 1/4" = 1'-0"

HOLDDOWN LEGEND

- HDU5 HOLDDOWN w/ SSTB24 ANCHOR
- HDU11 HOLDDOWN w/ SB1X30 ANCHOR

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

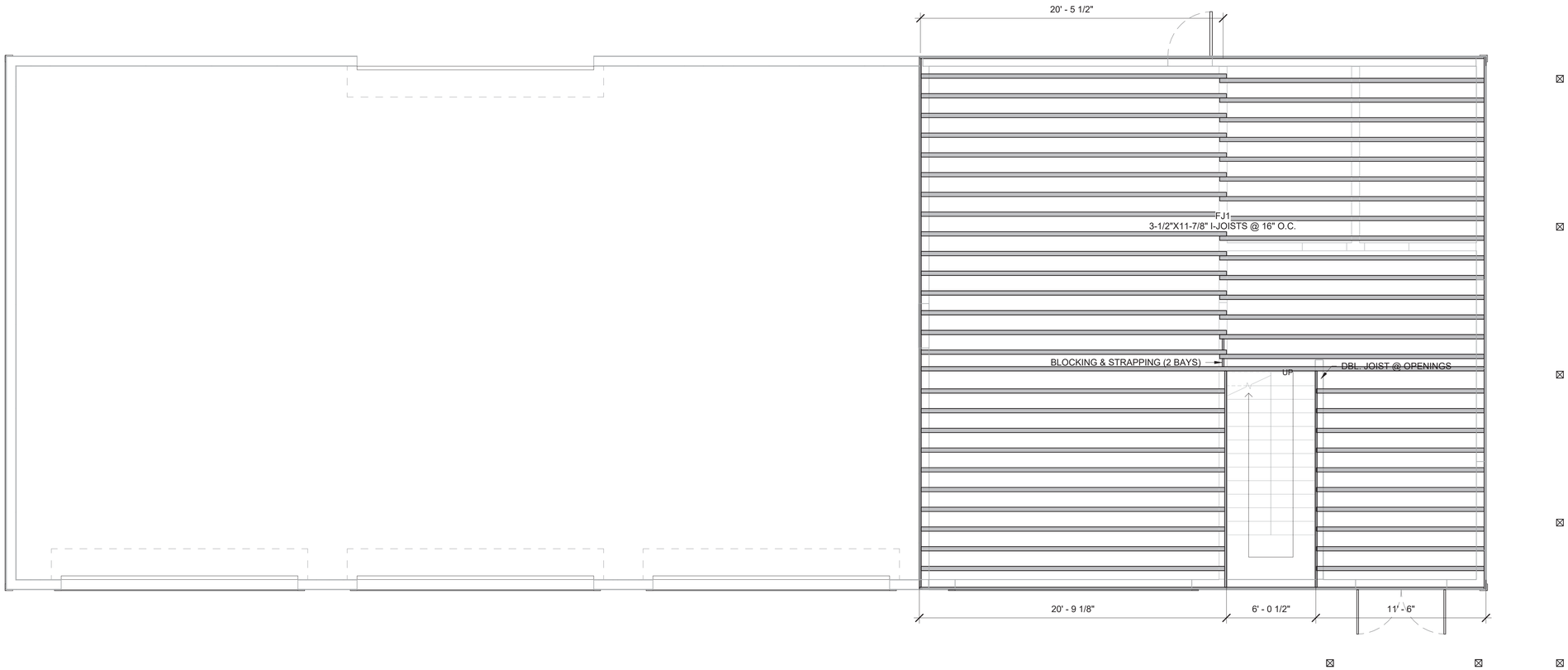
YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 1 - HEADERS & HARDWARE

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: S100

1/2" 1" 2"



LEVEL 2 – FLOOR FRAMING
SCALE: 1/4" = 1'-0"

HARDWARE

MSTA36 STRAP
FLOOR/STUD TO FLOOR/STUD

FLOOR & FRAMING NOTES

HEADERS PER PLAN

ALL EXPOSED FRAMING MEMBERS MUST BE P.T. OR REDWOOD.

SUBFLOOR SHALL BE 3/4" T&G GLUED & NAILED TO JOISTS w/ 10d @ 6" B.N., 12" O/C F.N.

ALL EXTERIOR HARDWARE AND FASTENERS SHALL BE HOT-DIPPED GA.

DOUBLE JOIST OR SOLID BLOCK BELOW ALL INTERIOR WALLS, KITCHEN ISLANDS AND BEARING WALLS

SOLID BLOCK OVER ALL BEARING WALLS, BEAMS AND GIRDERS.

PROVIDE A DOUBLE RIM OR SINGLE RIM AND PERPENDICULAR BLOCKING @ 48" O/C BELOW ALL EXTERIOR BEARING WALLS.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 2 - FLOOR FRAMING

DEL NORTE COUNTY, CALIFORNIA

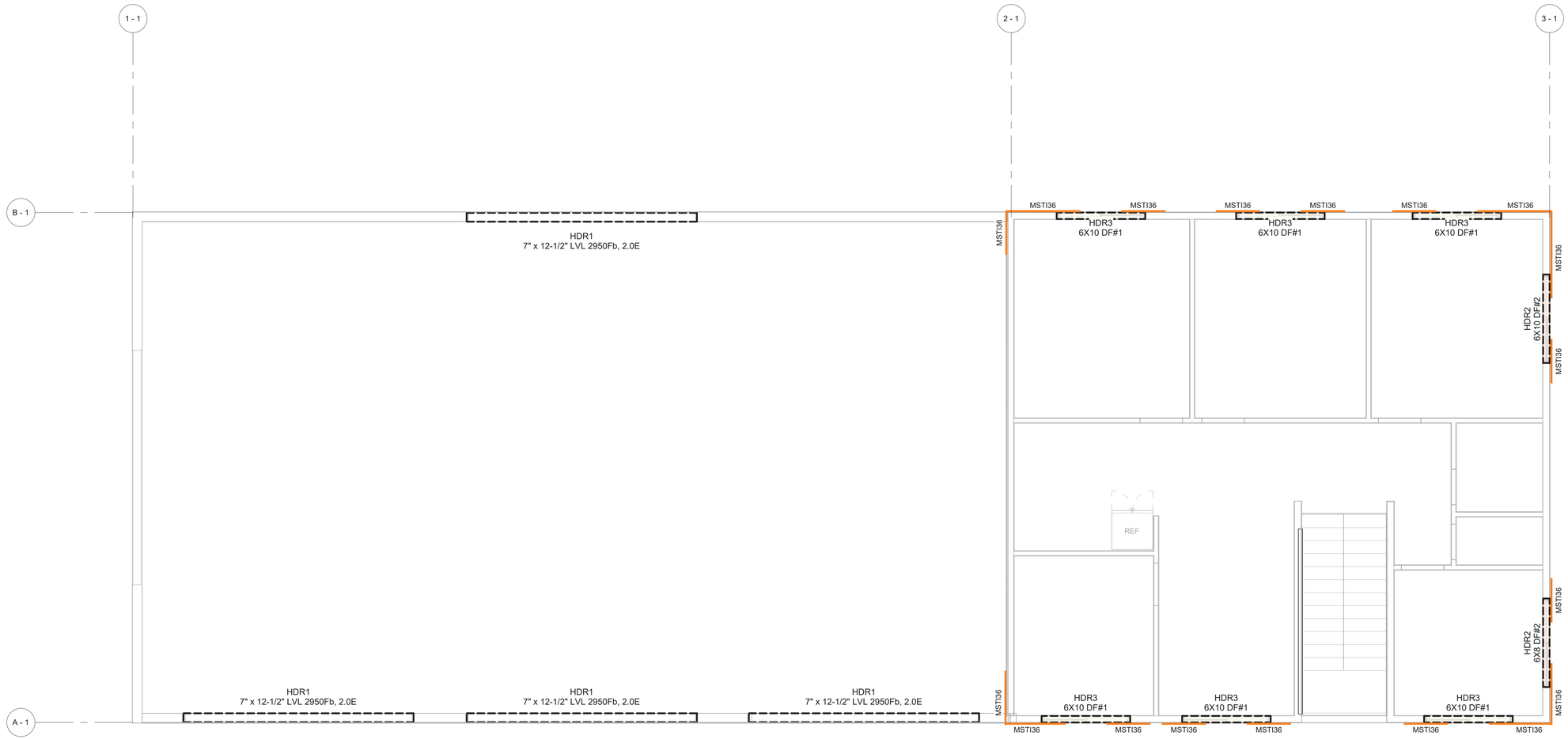
DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
S200

1/2" 1" 2"



LEVEL 2 – HEADERS & HARDWARE

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

HARDWARE

MSTA36 STRAP
FLOOR/STUD TO FLOOR/STUD

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. REYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 2 - HEADER & HARDWARE

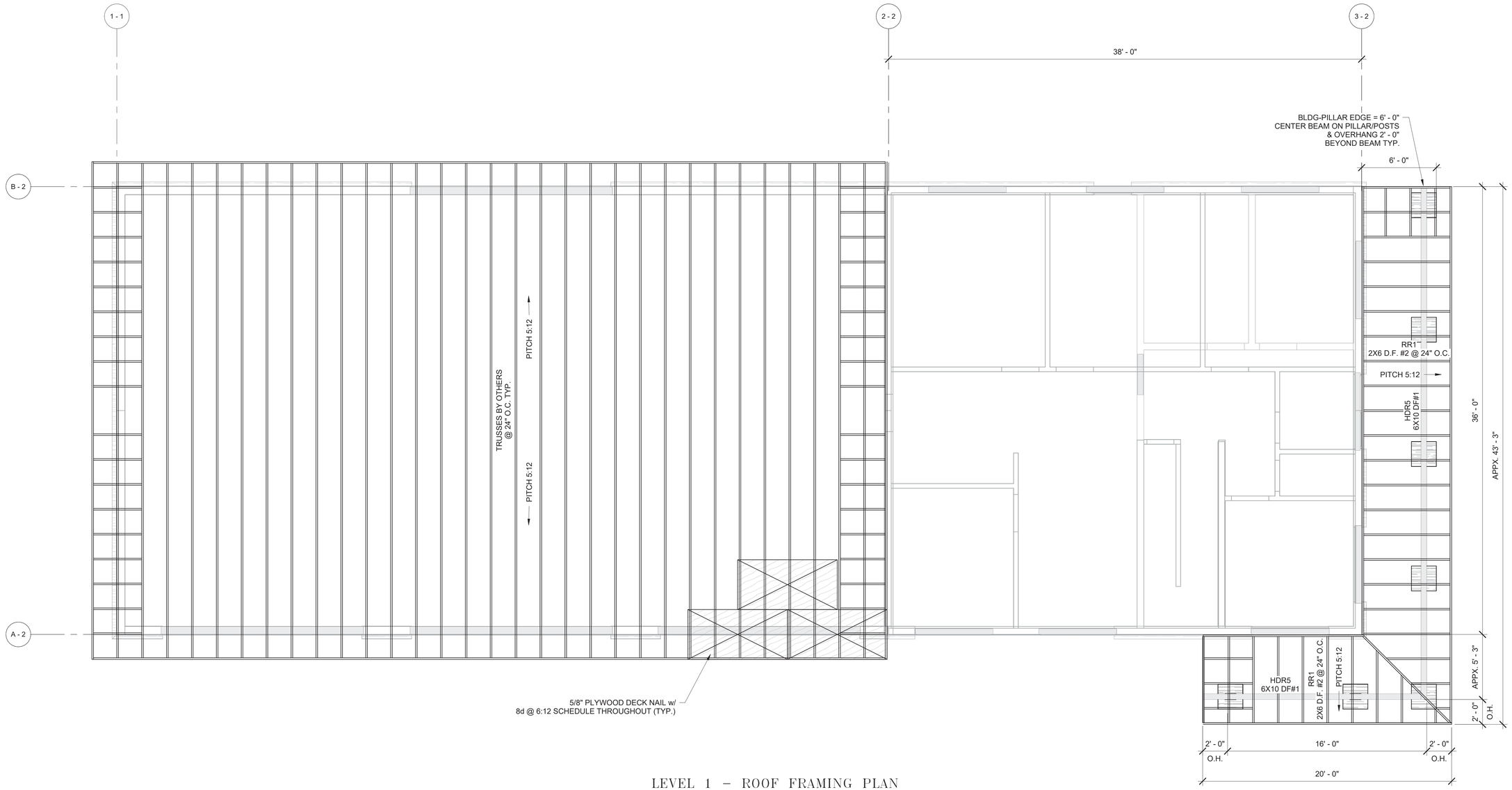
DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
S201



LEVEL 1 – ROOF FRAMING PLAN

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

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 1 ROOF FRAMING PLAN

DEL NORTE COUNTY, CALIFORNIA

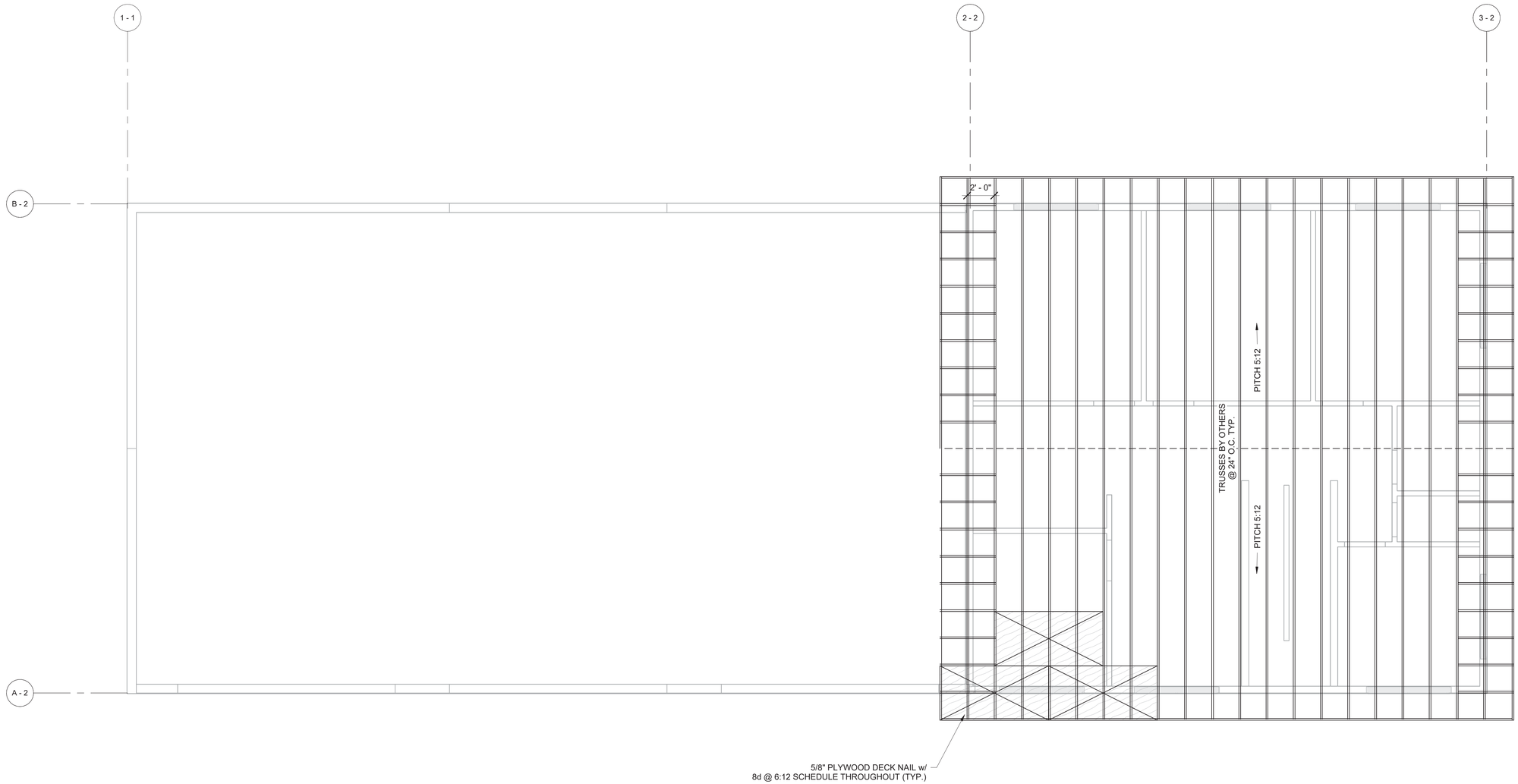
DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

PROJECT NO: 484.2022.03

DRAWING NO: S300

1/2" 1" 2"



LEVEL 2 – ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

ROOF FRAMING NOTES

PROVIDE H-1 CLIP (OR EQUAL) @ EA. TRUSS TO PLATE CONNECTION, UNO.

ROOF SHEATHING SHALL BE 1/2" CDX NAILED w/ 8d COMMONS @ 6" O/C AT PANEL EDGES OVER FRAMING, AND 12" O/C IN THE FIELD U.N.O.

TOP PLATE SPLICE SHALL BE 48" MIN. OVERLAP AND SHALL BE NAILED w/ NO LESS THAN (8) 16d FACE NAILS ON EACH SIDE OF THE SPLICE.

PROVIDE MIN. 1/150 ATTIC VENT. w/ CON'T. RIDGE & EAVE/SOFFIT VENTS.

ROOF TO BE ASC DESIGN SPAN STANDING-SEAM METAL ROOF U.N.O.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

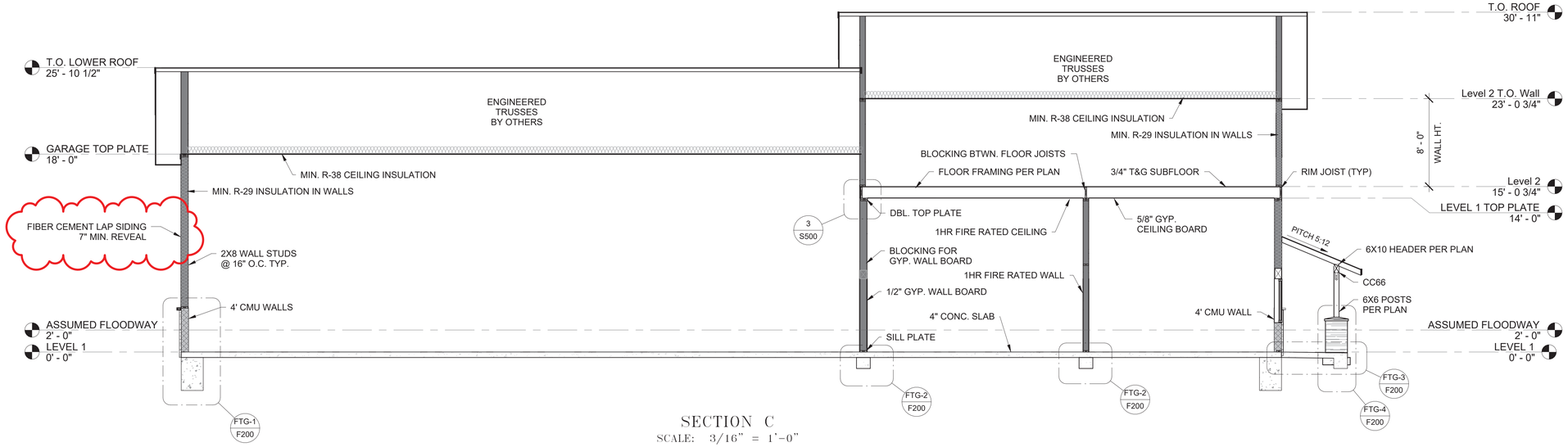
YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 2 ROOF FRAMING PLAN

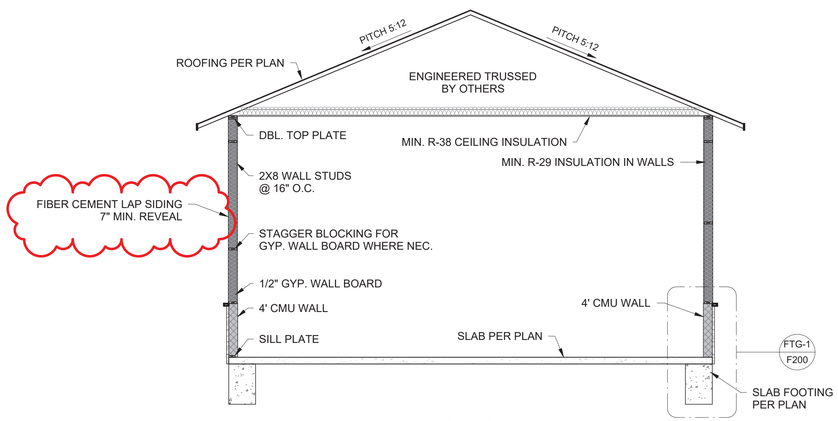
DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: S301

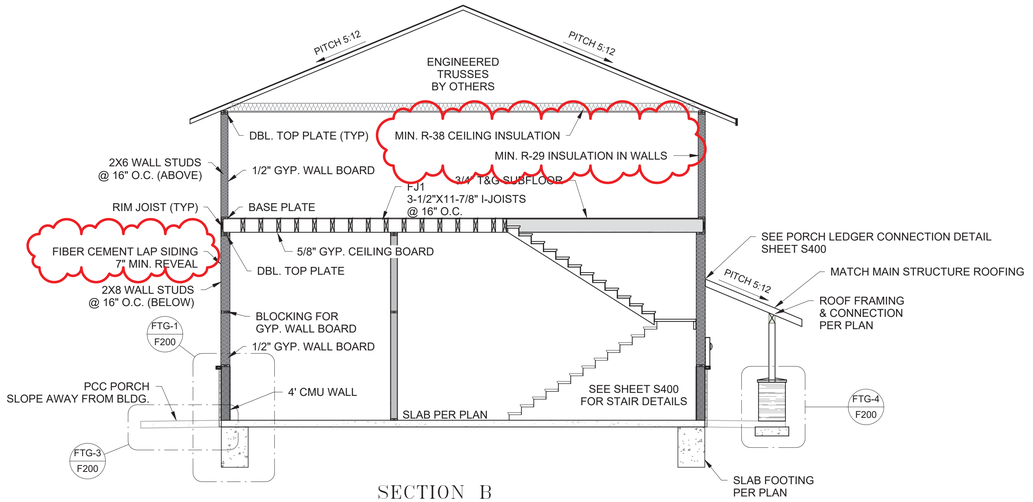
1/2" 1" 2"



SECTION C
SCALE: 3/16" = 1'-0"



SECTION A
SCALE: 3/16" = 1'-0"



SECTION B
SCALE: 3/16" = 1'-0"

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DESCRIPTION	DATE	DWN BY	DES BY	CHK BY	APP BY
1	BID ADDENDUM 1	2/18/2026	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
SECTION VIEWS

DEL NORTE COUNTY, CALIFORNIA

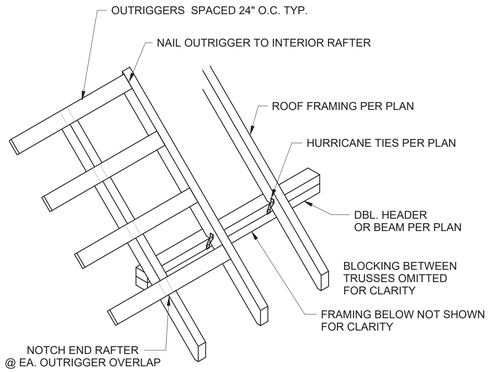
DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

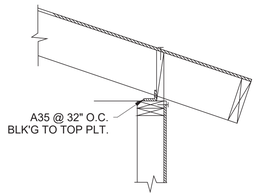
DRAWING NO:
S400

1/2" 1" 2"



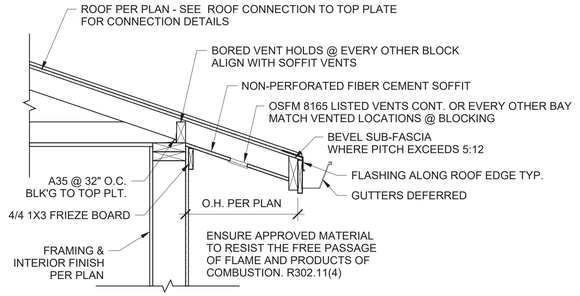
ROOF CONNECTIN & OUTLOOKER DETAIL

SCALE: NTS



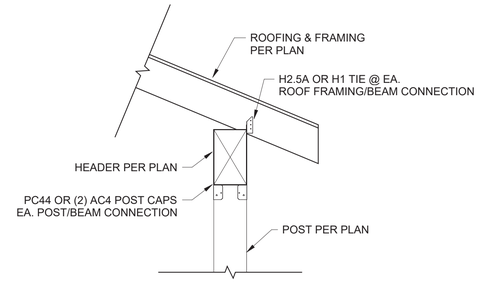
A35 BLK'G TO TOP PLT.

SCALE: NTS



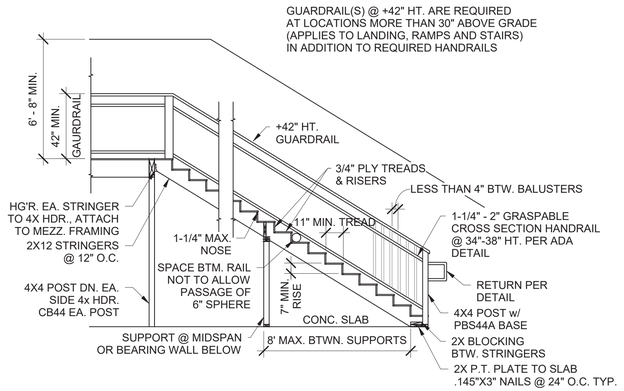
ROOF BLOCKING & VENTING DETAIL

SCALE: NTS



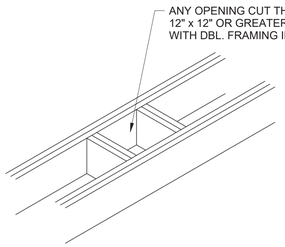
POST TO BEAM CONNECTION DETAIL

SCALE: NTS



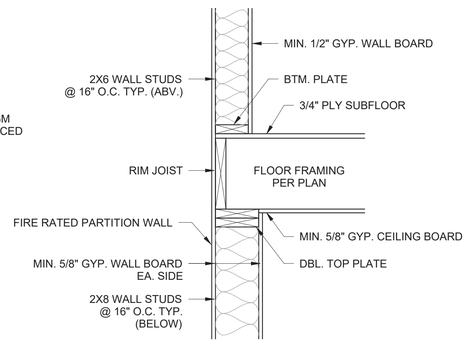
TYP. COMMERCIAL STAIR DETAIL

SCALE: NTS



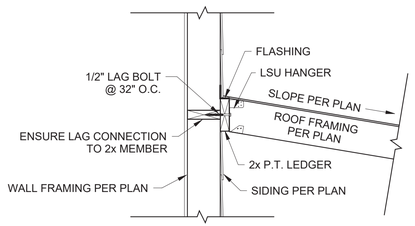
CUT THRU BLOCKING DETAIL

SCALE: NTS



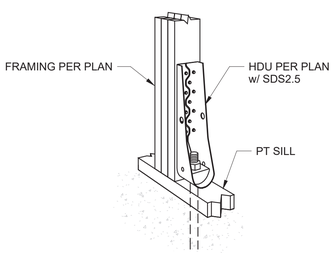
WALL TRANSITION DETAIL

SCALE: NTS



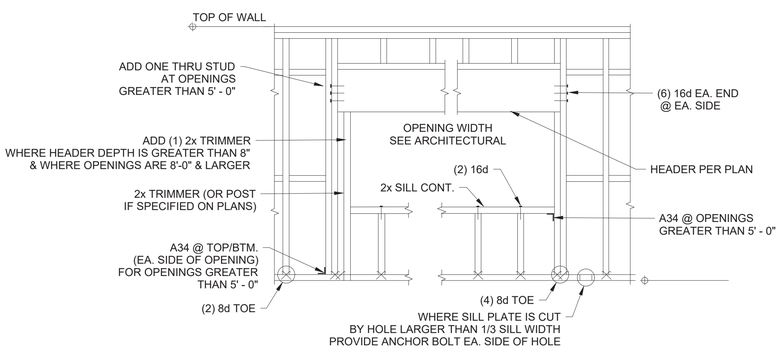
PORCH LEDGER CONNECTION DETAIL

SCALE: NTS



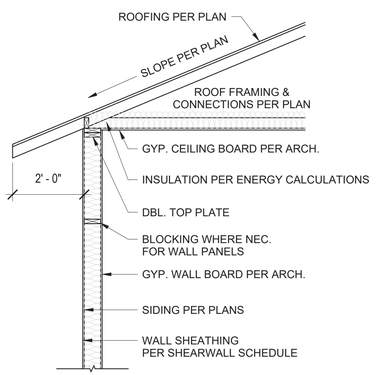
HDU CONNECTION @ CONCRETE

SCALE: NTS



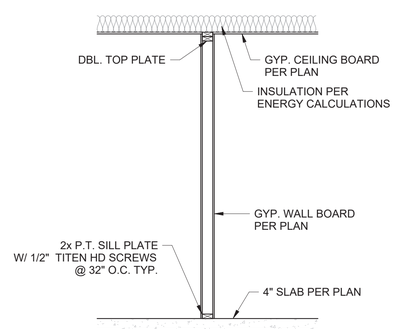
TYPICAL HEADER CONNECTION DETAIL

SCALE: NTS



WALL SECTION @ EXTERIOR SLAB

SCALE: NTS



WALL SECTION @ INTERIOR
(NON LOAD-BEARING)

SCALE: NTS

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

TRANSPORTATION BUILDING
FRAMING DETAILS

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
S500

1/2" 1" 2"

LICENSES, PERMITS, AND FEES

THE CONTRACTOR SHALL PROVIDE, PROCURE, AND PAY FOR ALL LICENSES, PERMITS, FEES, ETC. AS REQUIRED TO CARRY ON AND COMPLETE THEIR WORK.

ALL WORK SHALL BE DONE IN CODE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING SAFETY CODES, ORDINANCES, AND REGULATIONS. ADDITIONALLY, ALL WORK SHALL
CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS:

- NATIONAL FIRE PROTECTION ASSOCIATION.
- UNDERWRITERS LABORATORIES.
- TITLES 8, 17, 19, 21, 24 OF THE CALIFORNIA CODE OF REGULATIONS.
- CALIFORNIA ELECTRIC CODE.

WHEN THE CONTRACT DOCUMENTS CALL FOR MATERIALS OR CONSTRUCTION OF A HIGHER STANDARD THAN IS REQUIRED BY THE ABOVE, THE CONTRACT DOCUMENT REQUIREMENTS SHALL TAKE PRECEDENCE OVER THE REQUIREMENTS OF THE APPLICABLE LAWS, ORDINANCES, RULES, OR REGULATIONS. NOTHING IN THE CONTRACT DOCUMENTS SHALL BE INTERPRETED AS PERMITTING WORK IN VIOLATION OF SAID LAWS, RULES, AND/OR REGULATIONS.

THE CONTRACTOR FOR THIS WORK SHALL FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIALS AND/OR LABOR AS MAY BE REQUIRED FOR COMPLIANCE WITH THESE
LAWS, RULES, AND/OR REGULATIONS THOUGH SUCH MATERIALS AND/OR LABOR ARE NOT SPECIALLY SET FORTH IN THE CONTRACT DOCUMENTS.

ALL WORK OF DIVISION 26 SHALL BE PERFORMED BY AN APPROPRIATELY LICENSED CONTRACTOR. THE LICENSES SHALL BE CURRENT, VALID THROUGH THE TERM OF THE CONTRACT AND IN THE NAME OF THE CONTRACTOR.

SUBMITTALS

SUBMITTAL LISTS AND DRAWINGS SHALL INCLUDE IDENTIFYING MARKS ASSIGNED BY THE DRAWINGS AND SPECIFICATIONS.

REVIEW OF DRAWINGS AND OTHER MATERIAL SUBMITTED SHALL NOT BE CONSTRUED AS COMPLETE CHECK OR CONSTITUTE A WAIVER OF THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, BUT WILL INDICATE THAT THE MATERIAL SUBMITTED IS ACCEPTABLE IN QUALITY AND UTILITY. THIS REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO FIT THE PROPOSED MATERIALS TO THE SPACES PROVIDED, AND TO EFFECT NECESSARY REARRANGEMENTS OR CONSTRUCTION OF OTHER WORK.

ALL FIXTURES, MATERIALS, AND EQUIPMENT EQUAL IN QUALITY AND UTILITY TO THESE HEREIN MENTIONED WILL BE ACCEPTED. WHEN SPECIFIC NAMES ARE USED IN DESCRIBING FIXTURES, MATERIALS, AND EQUIPMENT THEY ARE MENTIONED AS STANDARDS ONLY, BUT THIS IMPLIES NO RIGHT ON THE PART OF THE CONTRACTOR TO USE OTHER FIXTURES, MATERIAL, AND EQUIPMENT OR METHODS, UNLESS APPROVED AS EQUAL IN QUALITY AND UTILITY BY THE ARCHITECT.

BEFORE ANY FIXTURES, MATERIALS, OR EQUIPMENT ARE PURCHASED, THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT FOR APPROVAL, A COMPLETE LIST OF MATERIALS, FIXTURES, AND EQUIPMENT, GIVING THE MANUFACTURER'S NAMES, CATALOG NUMBER, CAPACITY, SIZE, POWER REQUIREMENTS, ETC.

THE CONTRACTOR SHALL SUBMIT FOR THE APPROVAL OF THE ARCHITECT, SHOP DRAWINGS OF PROPOSED MATERIAL AND EQUIPMENT THAT DIFFER FROM THE SPECIFIED MATERIALS AND EQUIPMENT, AND OF ANY SPECIFIED MATERIALS AND EQUIPMENT WITH SPECIAL CONDITIONS AND/OR ARRANGEMENTS. THESE DRAWINGS SHALL SHOW NECESSARY MODIFICATIONS OF OWNER, PLUMBING, ELECTRICAL, AND MECHANICAL WORK REQUIRED BY THE PROPOSED MATERIALS AND EQUIPMENT.

SUBMITTAL - PRODUCT DATA

- SUBMIT MANUFACTURER'S PRODUCT DATA FOR ALL ELECTRICAL EQUIPMENT, IN COMPLIANCE WITH SPECIFICATIONS.

COORDINATION/LAYOUT SHOP DRAWINGS

- PREPARE COMPLETE CONSOLIDATED LAYOUT DRAWINGS FOR ALL NEW SYSTEMS, AND FOR EXISTING SYSTEMS THAT ARE IN THE SAME AREAS. SHOP DRAWINGS SHALL BE PREPARED USING AUTOCAD 2004 OR NEWER AND SHALL BE DRAWN AT A MINIMUM ¼" = 1' 0" SCALE. ALL DRAWINGS SHALL BE FULLY COORDINATED WITH HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, AND ARCHITECTURAL WORK.
- CLEARLY IDENTIFY AND DIMENSION THE PROPOSED LOCATIONS OF THE PRINCIPAL ITEMS OF EQUIPMENT AND ADEQUATE CLEARANCE FOR ALL EQUIPMENT, PIPING, PUMPS, VALVES, AND OTHER ITEMS. PROVIDE DETAILED LAYOUT OF ALL PIPING SYSTEMS SHOWING THE PROPOSED ROUTES.
- SHOW THE ACCESS MEANS FOR ALL ITEMS REQUIRING ACCESS FOR OPERATIONS AND MAINTENANCE.
- SUBMIT SHOP DRAWINGS TO ARCHITECT FOR APPROVAL, PRIOR TO FABRICATION OR INSTALLATION OF ANY WORK. DO NOT INSTALL EQUIPMENT OR PIPING UNTIL LAYOUT DRAWINGS HAVE BEEN APPROVED. ANY WORK INSTALLED WITHOUT PRIOR SHOP DRAWING APPROVAL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE.

AS-BUILT DRAWINGS
A COMPLETE SET OF CONTRACT DRAWINGS SHALL BE MAINTAINED AT THE WORK SITE, AND ALL CHANGES IN THE WORK SHALL BE RECORDED ON THIS SET, ON A DAILY BASIS. THE FINAL AS-BUILT DRAWINGS SHALL BE SUBMITTED FOR APPROVAL.

DESIGN DRAWINGS

THE DRAWINGS INDICATE DIAGRAMMATICALLY THE GENERAL LAYOUT OF THE MECHANICAL SYSTEMS AND OTHER RELATED WORK. FIELD VERIFICATION OF SCALED DIMENSIONS TAKEN FROM THE DRAWINGS IS REQUIRED.

THE CONTRACTOR SHALL REVIEW AND COMPARE THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND ALL OWNER SUPPLIED EQUIPMENT DRAWINGS, AND ADJUST THEIR WORK TO BE IN CONFORMITY WITH THE CONDITIONS INDICATED THEREON. DISCREPANCIES BETWEEN DRAWINGS, BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR A DETERMINATION OF THE MODIFICATIONS TO BE EFFECTED. IN THE EVENT THAT A MAJOR MODIFICATION IS REQUIRED, A CHANGE ORDER WILL BE PREPARED.

COOPERATION WITH OTHER TRADES

COOPERATE FULLY WITH OTHER TRADES DOING WORK ON THE PROJECT AS MAY BE NECESSARY FOR THE PROPER COMPLETION OF THE PROJECT. REFER TO THE STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DETAILS OF THE BUILDING STRUCTURE AND EQUIPMENT INSTALLATION THAT WILL TEND TO OVERLAP, CONFLICT WITH OR REQUIRE COORDINATION WITH THE WORK OF THIS SECTION, AND SCHEDULE THIS WORK ACCORDINGLY.

ANY WORK DONE WITHOUT REGARD FOR OTHER TRADES SHALL BE MOVED, REPLACED, OR REDONE AS REQUIRED, WITHOUT EXTRA CHARGES TO OWNER.

DIVISION OF WORK BETWEEN DIVISIONS 23 AND 26
CLOSE COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL TRADES IS A PART OF THE WORK THAT IS REQUIRED BY THIS CONTRACT. NO ALLOWANCE WILL BE MADE FOR OMISSIONS BASED ON INCORRECTLY ASSUMING ANOTHER TRADE WILL BE PERFORMING YOUR WORK. CONFIRM YOUR SCOPE OF WORK WITH THE GENERAL CONTRACTOR. THE DIVISION OF RESPONSIBILITIES BETWEEN TRADES SUPPLYING EQUIPMENT IN OTHER DIVISIONS MAY BE DIFFERENT. FOR INSTANCE, DIVISION 26 CONTRACTOR MAY BE REQUIRED TO SUPPLY DISCONNECT SWITCHES AND STARTERS FOR NON-HVAC MECHANICAL EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS.

DIVISION 23 RESPONSIBILITIES

ASSUME RESPONSIBILITY FOR THE PROPER FUNCTIONING OF THE HVAC SYSTEMS IN THEIR ENTIRETY.

FURNISH AND INSTALL ALL CONDUCTORS AND CONDUIT REQUIRED FOR CONTROL OF HVAC EQUIPMENT.

MAKE ALL TERMINATIONS WITH THE EXCEPTION OF POWER CONDUCTORS.

FURNISH AND INSTALL ALL CONTROL PANELS AND DEVICES TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROLS SYSTEM, INCLUDING ALL CONTROLS TRANSFORMERS.

FURNISH AND INSTALL MOTOR STARTERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23

INSTALL DUCT SMOKE DETECTORS FURNISHED BY FIRE ALARM CONTRACTOR IN BUILDINGS WITH FIRE ALARM SYSTEMS.

FURNISH AND INSTALL DUCT SMOKE DETECTORS IN BUILDINGS WITHOUT FIRE ALARM SYSTEMS.

FURNISH AND INSTALL ALL CONTROL CONDUCTORS AND CONDUIT CONNECTING DUCT SMOKE DETECTORS TO SMOKE DAMPERS AND FAN START CONTROLS.

ALL ELECTRICAL WORK PERFORMED UNDER DIVISION 23 SHALL CONFORM TO THE

DIVISION 26 RESPONSIBILITIES

FURNISH AND INSTALL ALL RACEWAYS, CONDUIT, DISCONNECT SWITCHES, AND CONDUCTORS NECESSARY FOR ELECTRICAL POWER SUPPLY.

MAKE ALL POWER SUPPLY TERMINATIONS TO MOTORS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS, AND OTHER MECHANICAL DEVICES.

FIRE ALARM CONTRACTOR TO FURNISH DUCT SMOKE DETECTORS IN BUILDINGS WITH FIRE ALARM SYSTEMS.

PROVIDE POWER TO ALL DUCT SMOKE DETECTORS AND SMOKE DAMPERS.

COORDINATE ALL WORK WITH MECHANICAL CONTRACTORS.

OPERATING AND MAINTENANCE INSTRUCTIONS

FURNISH THREE SETS OF TYPEWRITTEN INSTRUCTIONS COVERING MAINTENANCE, ADJUSTMENT, AND OPERATION OF EACH PIECE OF APPARATUS, BOUND IN A HARD COVER LOOSE-LEAF BINDER. NEATLY OBSCURE OR CROSS OUT INAPPLICABLE DATA FROM MANUFACTURER'S LITERATURE. SUBMIT DATA TO THE ARCHITECT.

OPERATING INSTRUCTIONS SHALL SHOW SEQUENCE OF OPERATIONS, LUBRICATION, CARE, AND MAINTENANCE REQUIREMENTS OF ALL EQUIPMENT. FINAL ACCEPTANCE OF THE WORK WILL NOT BE MADE UNTIL A SATISFACTORY SUBMISSION OF THIS MATERIAL IS RECEIVED AND APPROVED BY THE ARCHITECT.

THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE INSTRUCTED IN THE OPERATION AND SERVICING OF ALL HVAC & PLUMBING SYSTEMS.

ACCURACY OF DATA

THE DATA GIVEN HEREIN AND ON THE DRAWINGS ARE AS EXACT AS COULD BE REASONABLY SECURED, BUT ABSOLUTE ACCURACY IS NOT GUARANTEED. EXACT LOCATIONS, DISTANCES, ELEVATIONS, ETC. WILL BE GOVERNED BY SHOP DRAWINGS, THE BUILDING ITSELF, AND ACTUAL FIELD CONDITIONS.

DELIVERY, STORAGE, AND HANDLING

CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, PROTECTION, AND PLACING OF ALL EQUIPMENT AND MATERIALS. CONTRACTOR SHALL PROTECT THE WORK AND MATERIALS FROM DAMAGE DURING CONSTRUCTION. EQUIPMENT STORED AT THE JOB SITE SHALL BE PROTECTED FROM DUST, WATER, OR OTHER DAMAGE, AND BE COVERED IF EQUIPMENT IS EXPOSED TO WEATHER. PROTECT INTERIORS OF NEW EQUIPMENT AND PIPING SYSTEMS AGAINST ENTRY OF FOREIGN MATTER. CLEAN BOTH INSIDE AND OUTSIDE BEFORE PAINTING OR PLACING EQUIPMENT IN OPERATION. ANY ITEMS DAMAGED SHALL BE REPAIRED OR REPLACED, AT NO ADDITIONAL COST TO THE OWNER.

EQUIPMENT WARRANTIES SHALL BE PROVIDED FOR ALL EQUIPMENT, WITH ALL NECESSARY INFORMATION FILLED IN, EXCEPT PURCHASE DATE, IN FAVOR OF THE OWNER.

THE CONTRACTOR SHALL GUARANTEE THAT ALL WORK UNDER THIS SECTION IS FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING THE NOTICE OF COMPLETION. REPLACEMENT OF DEFECTIVE WORK AND DAMAGE CAUSED TO WORK OF OTHER TRADES AS A RESULT OF SUCH DEFECTIVE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE MADE AT NO COST TO THE OWNER.

ALTERNATIVE MATERIALS AND METHODS
THESE PLANS AND SPECIFICATIONS DESCRIBE THE GENERAL SCOPE OF THE MECHANICAL SYSTEMS. THESE PLANS AND SPECIFICATIONS DO NOT PRECLUDE THE SUBMITTAL OF ALTERNATIVE METHODS OR MATERIALS. MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE STATED TO IDENTIFY THE TYPE AND QUALITY OF THE EQUIPMENT OR MATERIALS REQUIRED
FOR THE PROJECT.

THE CONTRACTOR MAY SUBMIT SHOP DRAWINGS AND/OR TECHNICAL INFORMATION ON ALTERNATIVE EQUIPMENT, MATERIALS OR INSTALLATION DETAILS TO ACCOMPLISH THE INTENT OF THE PLANS AND SPECIFICATIONS. APPROVAL OF THE ALTERNATIVE EQUIPMENT, MATERIALS OR INSTALLATION DETAILS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR COMPLYING WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SUBMIT THE MANUFACTURERS' TECHNICAL INFORMATION, SHOP DRAWINGS, AND/OR WRITTEN DESCRIPTION OF ALTERNATIVE METHODS FOR EACH ITEM DESCRIBED BY MANUFACTURER'S NAME AND CATALOG NUMBER AND FOR EACH COMPONENT, EQUIPMENT, MATERIAL, OR INSTALLATION DETAIL REQUIRED.

SITE EXAMINATION
THOROUGHLY EXAMINE THE SITE AND VERIFY THE ACTUAL WORK CONDITIONS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXPENSES DUE TO FAILURE TO DISCOVER SITE CONDITIONS WHICH AFFECT THE WORK.

PRODUCTS
UNLESS OTHERWISE INDICATED, PROVIDE ALL FIRST-QUALITY NEW MATERIALS, FREE FROM ANY DEFECTS, AND SUITABLE FOR THE INTENDED USE AND THE SPACE PROVIDED. PROVIDE MATERIALS APPROVED BY UL WHEREVER STANDARDS HAVE ITEMS NOT SPECIFICALLY SHOWN OR SPECIFIED WHICH ARE REQUIRED TO PROVIDE THE COMPLETE SYSTEMS SPECIFIED HEREIN. WHERE TWO OR MORE UNITS OF THE SAME CLASS OF MATERIAL PR EQUIPMENT ARE REQUIRED, PROVIDE PRODUCTS OF A SINGLE MANUFACTURER. COMPONENT PARTS OF MATERIALS OR EQUIPMENT NEED NOT BE PRODUCTS OF THE SAME MANUFACTURER.

EQUIPMENT FINISH: UNLESS OTHERWISE INDICATED, FINISH FOR ELECTRICAL EQUIPMENT AND ENCLOSURES SHALL BE MANUFACTURER'S STANDARD GRAY OR ANSI 61 GRAY OVER A PRIMER AND RUST INHIBITOR.

RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS

METAL CONDUIT:
METAL CONDUIT:LISTING AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

GRC: COMPLY WITH ANSI C80.1 AND UL 6.

PVC-COATED STEEL CONDUIT: PVC-COATED RIGID STEEL CONDUIT.
- COMPLY WITH NEMA RN 1.
- COATING THICKNESS: 0.040 INCH, MINIMUM.

EMT: COMPLY WITH ANSI C80.3 AND UL 797.

FMC: COMPLY WITH UL 1; ZINC-COATED STEEL.

LFMC: FLEXIBLE STEEL CONDUIT WITH PVC JACKET AND COMPLYING WITH UL 360.

METAL FITTINGS:
COMPLY WITH NEMA FB 1 AND UL 514B.

LISTING AND LABELING: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

FITTINGS, GENERAL: LISTED AND LABELED FOR TYPE OF CONDUIT, LOCATION, AND USE.

FITTINGS FOR EMT:
- MATERIAL: STEEL.
- TYPE: SETSCREW.

EXPANSION FITTINGS: PVC OR STEEL TO MATCH CONDUIT TYPE, COMPLYING WITH UL 651, RATED FOR ENVIRONMENTAL CONDITIONS WHERE INSTALLED, AND INCLUDING FLEXIBLE EXTERNAL BONDING JUMPER.

COATING FOR FITTINGS FOR PVC-COATED CONDUIT: MINIMUM THICKNESS OF 0.040 INCH, WITH OVERLAPPING SLEEVES PROTECTING THREADED JOINTS.

JOINT COMPOUND
JOINT COMPOUND FOR GRC: APPROVED, AS DEFINED IN NFPA 70, BY AUTHORITIES HAVING JURISDICTION FOR USE IN CONDUIT ASSEMBLIES, AND COMPOUNDED FOR USE TO LUBRICATE AND PROTECT THREADED CONDUIT JOINTS FROM CORROSION AND TO ENHANCE THEIR CONDUCTIVITY.

NON-METALLIC CONDUITS AND FITTINGS
NONMETALLIC CONDUIT SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

RNC: TYPE EPC-40-PVC, COMPLYING WITH NEMA TC 2 AND UL 651 UNLESS OTHERWISE INDICATED.
LFNC: COMPLY WITH UL 1660.

NONMETALLIC FITTINGS
- FITTINGS, GENERAL: LISTED AND LABELED FOR TYPE OF CONDUIT, LOCATION, AND USE.
- FITTINGS FOR ENT AND RNC: COMPLY WITH NEMA TC 3; MATCH TO CONDUIT OR TUBING TYPE AND MATERIAL.
- FITTINGS FOR LFNC: COMPLY WITH UL 514B.
- SOLVENTS AND ADHESIVES: AS RECOMMENDED BY CONDUIT MANUFACTURER.

BOXES, ENCLOSURES, AND CABINETS
GENERAL REQUIREMENTS FOR BOXES, ENCLOSURES, AND CABINETS: BOXES, ENCLOSURES, AND CABINETS INSTALLED IN WET LOCATIONS SHALL BE LISTED FOR USE IN WET LOCATIONS.

SHEET METAL OUTLET AND DEVICE BOXES: COMPLY WITH NEMA OS 1 AND UL 514A.

METAL FLOOR BOXES: RECTANGULAR, SHEET METAL, FULLY ADJUSTABLE, LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

LUMINAIRE OUTLET BOXES: NONADJUSTABLE, DESIGNED FOR ATTACHMENT OF LUMINAIRE WEIGHING 50 LB. OUTLET BOXES DESIGNED FOR ATTACHMENT OF LUMINAIRES WEIGHING MORE THAN 50 LB SHALL BE LISTED AND MARKED FOR THE MAXIMUM ALLOWABLE WEIGHT.

SMALL SHEET METAL PULL AND JUNCTION BOXES: NEMA OS 1.

DEVICE BOX DIMENSIONS: 4 INCHES SQUARE BY 2-1/8 INCHES DEEP

HANDHOLES AND BOXES FOR EXTERIOR UNDERGROUND WIRING

GENERAL REQUIREMENTS FOR HANDHOLES AND BOXES:
BOXES AND HANDHOLES FOR USE IN UNDERGROUND SYSTEMS SHALL BE DESIGNED AND IDENTIFIED AS DEFINED IN NFPA 70, FOR INTENDED LOCATION AND APPLICATION.

BOXES INSTALLED IN WET AREAS SHALL BE LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

POLYMER-CONCRETE HANDHOLES AND BOXES WITH POLYMER-CONCRETE COVER:
MOLDED OF SAND AND AGGREGATE, BOUND TOGETHER WITH POLYMER RESIN, AND REINFORCED WITH STEEL, FIBERGLASS, OR A COMBINATION OF THE TWO.

STANDARD: COMPLY WITH SCTE 77.

CONFIGURATION: DESIGNED FOR FLUSH BURIAL WITH OPEN BOTTOM UNLESS OTHERWISE INDICATED.

COVER: WEATHERPROOF, SECURED BY TAMPER-RESISTANT LOCKING DEVICES AND HAVING STRUCTURAL LOAD RATING CONSISTENT WITH ENCLOSURE AND HANDHOLE LOCATION.

COVER FINISH: NONSKID FINISH SHALL HAVE A MINIMUM COEFFICIENT OF FRICTION OF 0.50.

COVER LEGEND: MOLDED LETTERING, "ELECTRIC."

CONDUIT ENTRANCE PROVISIONS: CONDUIT-TERMINATING FITTINGS SHALL MATE WITH ENTERING DUCTS FOR SECURE, FIXED INSTALLATION IN ENCLOSURE WALL.

HANDHOLES 12 INCHES WIDE BY 24 INCHES LONG AND LARGER: HAVE INSERTS FOR CABLE RACKS AND PULLING-IN IRONS INSTALLED BEFORE CONCRETE IS POURED.

LOW VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLE

COPPER BUILDING WIRE
- DESCRIPTION: FLEXIBLE, INSULATED AND UNINSULATED, DRAWN COPPER CURRENTCARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH, RATED 600 V OR LESS.

STANDARDS
- LISTED AND LABELED AS DEFINED IN CEC, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.
- ROHS COMPLIANT. CONDUCTOR AND CABLE MARKING: COMPLY WITH WIRE AND CABLE MARKING ACCORDING TO UL'S "WIRE AND CABLE MARKING AND APPLICATION GUIDE."
- CONDUCTORS: COPPER, COMPLYING WITH ASTM B3 FOR BARE ANNEALED COPPER AND WITH ASTM B8 FOR STRANDED CONDUCTORS.
- CONDUCTOR INSULATION: TYPE THHN AND TYPE THWN-2: COMPLY WITH UL 83, 90ºC DRY OR 75ºC WET.

CONNECTORS AND SPLICES
- DESCRIPTION: FACTORY-FABRICATED CONNECTORS, SPLICES, AND LUGS OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED; LISTED AND LABELED AS DEFINED IN CEC, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.
- JACKETED CABLE CONNECTORS: FOR STEEL AND ALUMINUM JACKETED CABLES, ZINC DIECAST WITH SET SCREWS. DESIGNED TO CONNECT CONDUCTORS SPECIFIED IN THIS SECTION.
- LUGS: ONE PIECE, SEAMLESS, DESIGNED TO TERMINATE CONDUCTORS SPECIFIED IN THIS SECTION.
  MATERIAL: COPPER.
  TYPE: TWO HOLE WITH STANDARD BARRELS.
  TERMINATION: COMPRESSION.

CONDUCTOR ACCESSORIES

VINYL WRAPAROUND LABELS: PREPRINTED, FLEXIBLE LABELS LAMINATED WITH A CLEAR, WEATHER- AND CHEMICAL-RESISTANT COATING AND MATCHING WRAPAROUND CLEAR ADHESIVE TAPE FOR SECURING LABEL ENDS.

SELF-ADHESIVE LABELS: POLYESTER, THERMAL, TRANSFER-PRINTED, 3-MIL-THICK, MULTICOLOR, WEATHER- AND UV-RESISTANT, PRESSURE-SENSITIVE ADHESIVE LABELS, CONFIGURED FOR INTENDED USE AND LOCATION.
MINIMUM NOMINAL SIZE:
- 1-1/2 BY 6 INCHES FOR RACEWAY AND CONDUCTORS.
- 3-1/2 BY 5 INCHES FOR EQUIPMENT.
- AS REQUIRED BY AUTHORITIES HAVING JURISDICTION.

TAPE:
GENERAL PURPOSE, FLAME RETARDANT: 7 MIL, VINYL PLASTIC, RATED FOR 90ºC MINIMUM, MEETING REQUIREMENTS OF UL 510. FLAME RETARDANT, COLD AND WEATHER RESISTAND: 8.5 MIL, VINYL PLASTIC.

TAGS
NONMETALLIC PREPRINTED TAGS: POLYETHYLENE TAGS, 0.015 INCH THICK, COLOR-CODED FOR PHASE AND VOLTAGE LEVEL, WITH FACTORY SCREENED PERMANENT DESIGNATIONS; PUNCHED FOR USE WITH SELF-LOCKING CABLE TIE FASTENER.

SIGNS
BAKED-ENAMEL SIGNS:
PREPRINTED ALUMINUM SIGNS, HIGH-INTENSITY REFLECTIVE, PUNCHED OR DRILLED FOR FASTENERS, WITH COLORS, LEGEND, AND SIZE REQUIRED FOR APPLICATION.
1/4-INCH GROMMETS IN CORNERS FOR MOUNTING.
NOMINAL SIZE: 7 BY 10 INCHES.

CABLE TIES: NYLON, ADJUSTABLE, AND SELF-LOCKING.

WIRING DEVICES

LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE. COMPLY WITH NFPA 70. ROHS COMPLIANT.COMPLY WITH NEMA WD 1. FOR PLASTIC COVERS, MATCH DEVICE COLOR.

DUPLEX RECEPTACLES, 125V, 20A:
- DESCRIPTION: TWO POLE, THREE WIRE, AND SELF-GROUNDING.
- CONFIGURATION: NEMA WD 6, CONFIGURATION 5-20R.
- STANDARDS: COMPLY WITH UL 498 AND FS W-C-596.
- TAMPER-RESISTANT: PROVIDE DEVICE LISTED AND LABELED AS COMPLYING WITH NFPA "TAMPER RESISTANT RECEPTACLES" IN LOCATIONS SPECIFIED BY NFPA 70 406.12.
- WEATHER-RESISTANT: PROVIDE DEVICE LISTED AND LABELED AS COMPLYING WITH NFPA 70 "RECEPTACLES IN DAMP OR WET LOCATIONS" IN LOCATIONS AS SHOWN ON THE PLANS.

GFCI RECEPTACLES, 125V, 20A:
- DESCRIPTION: INTEGRAL GFCI WITH "TEST" AND "RESET" BUTTONS AND LED INDICATOR LIGHT. TWO POLE, THREE WIRE, AND SELF-GROUNDING.
- CONFIGURATION: NEMA WD 6, CONFIGURATION 5-20R.
- TYPE: FEED THROUGH.
- STANDARDS: COMPLY WITH UL 498, UL 943 CLASS A, AND FS W-C-596.
- TAMPER-RESISTANT: PROVIDE DEVICE LISTED AND LABELED AS COMPLYING WITH NFPA "TAMPER RESISTANT RECEPTACLES" IN LOCATIONS SPECIFIED BY NFPA 70 406.12.
- WEATHER-RESISTANT: PROVIDE DEVICE LISTED AND LABELED AS COMPLYING WITH NFPA 70 "RECEPTACLES IN DAMP OR WET LOCATIONS" IN LOCATIONS AS SHOWN ON THE PLANS.

TOGGLE SWITCHES: 120/277V, 20A COMPLY WITH UL 20 AND FS W-S-896.

OCCUPANCY SENSORS
- DESCRIPTION: SWITCHBOX-MOUNTED, COMBINATION LIGHTING-CONTROL SENSOR AND CONVENTIONAL SWITCH LIGHTING-CONTROL UNIT USING DUAL (MICROPHONIC AND PASSIVE INFRARED) TECHNOLOGY.
- RATED 960 W AT 120 V AC FOR TUNGSTEN LIGHTING, 10 A AT 120 V AC OR 10 A AT 277 V AC FOR FLUORESCENT OR LED LIGHTING, AND 1/4 HP AT 120 V AC.
- ADJUSTABLE TIME DELAY OF 20 MINUTES.
- ABLE TO BE LOCKED TO AUTOMATIC-ON MODE.

DIMMERS
- DECRIPTION: SWITCHBOX-MOUNTED, COMBINATION DIMMING AND ONVENTIONAL SWITCH LIGHTING CONTROL UNIT.
- COMPATIBILITY: SUITABLE FOR THE LUMINAIRE(S) TO BE CONTROLLED.
- CONNECTIONS: PROVISIONS FOR CONNECTION TO BAS.

WET-LOCATION, WEATHERPROOF COVER PLATES: NEMA 250, COMPLYING

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL ELECTRICAL SPECIFICATION

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
E100

1/2" 1" 2"

SWITCHBOARDS

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

COMPLY WITH NEMA PB 2, NFPA 70, AND UL 891.

SERVICE ENTRANCE RATING: SWITCHBOARDS INTENDED FOR USE AS SERVICE ENTRANCE EQUIPMENT SHALL CONTAIN FROM ONE TO SIX SERVICE DISCONNECTING MEANS WITH OVERCURRENT PROTECTION, A NEUTRAL BUS WITH DISCONNECTING LINK, A GROUNDING ELECTRODE CONDUCTOR TERMINAL, AND A MAIN BONDING JUMPER.

UTILITY METERING COMPARTMENT: BARRIER COMPARTMENT AND SECTION COMPLYING WITH UTILITY COMPANY'S REQUIREMENTS; HINGED SEALABLE DOOR; BUSES PROVISIONED FOR MOUNTING UTILITY COMPANY'S CURRENT TRANSFORMERS AND POTENTIAL TRANSFORMERS OR POTENTIAL TAPS AS REQUIRED BY UTILITY COMPANY. IF SEPARATE VERTICAL SECTION IS REQUIRED FOR UTILITY METERING, MATCH AND ALIGN WITH BASIC SWITCHBOARD. PROVIDE SERVICE ENTRANCE LABEL AND NECESSARY APPLICABLE SERVICE ENTRANCE FEATURES.

BUSSES AND CONNECTIONS - THREE PHASE, FOUR WIRE UNLESS OTHERWISE INDICATED.

PROVIDE PHASE BUS ARRANGEMENT A, B, C FROM FRONT TO BACK, TOP TO BOTTOM, AND LEFT TO RIGHT WHEN VIEWED FROM THE FRONT OF THE SWITCHBOARD.

PHASE- AND NEUTRAL-BUS MATERIAL: TIN-PLATED COPPER FEEDER CIRCUIT-BREAKER LINE CONNECTIONS.

LOAD TERMINALS: INSULATED, RIGIDLY BRACED, RUNBACK BUS EXTENSIONS, OF SAME MATERIAL AS THROUGH BUSES, EQUIPPED WITH MECHANICAL CONNECTORS FOR OUTGOING CIRCUIT CONDUCTORS. PROVIDE LOAD TERMINALS FOR FUTURE CIRCUIT-BREAKER POSITIONS AT FULL-AMPERE RATING OF CIRCUIT-BREAKER POSITION.

GROUND BUS: 1/4-BY-2-INCH TIN-PLATED COPPER, EQUIPPED WITH MECHANICAL CONNECTORS FOR FEEDER AND BRANCH-CIRCUIT GROUND CONDUCTORS.

MAIN-PHASE BUSES AND EQUIPMENT-GROUND BUSES: UNIFORM CAPACITY FOR ENTIRE LENGTH OF SWITCHBOARD'S MAIN AND DISTRIBUTION SECTIONS. PROVIDE FOR FUTURE EXTENSIONS FROM BOTH ENDS.

DISCONNECT LINKS:

- ISOLATE NEUTRAL BUS FROM INCOMING NEUTRAL CONDUCTORS.
- BOND NEUTRAL BUS TO EQUIPMENT-GROUND BUS FOR SWITCHBOARDS UTILIZED AS SERVICE EQUIPMENT OR SEPARATELY DERIVED SYSTEMS.
- NEUTRAL BUSES: 100 PERCENT OF THE AMPACITY OF PHASE BUSES UNLESS OTHERWISE INDICATED, EQUIPPED WITH MECHANICAL CONNECTORS FOR OUTGOING CIRCUIT NEUTRAL CABLES. BRACE BUS EXTENSIONS FOR BUSWAY FEEDER NEUTRAL BUS.

FUTURE DEVICES: EQUIP COMPARTMENTS WITH MOUNTING BRACKETS, SUPPORTS, BUS CONNECTIONS, AND APPURTENANCES AT FULL RATING OF CIRCUIT-BREAKER COMPARTMENT.

PANELBOARDS

FLUSH AND SURFACE-MOUNTED, DEAD-FRONT CABINETS. RATED FOR ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.

HINGED FRONT COVER: ENTIRE FRONT TRIM HINGED TO BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER. TRIMS SHALL COVER ALL LIVE PARTS AND SHALL HAVE NO EXPOSED HARDWARE.

STEEL AND GALVANIZED STEEL, FACTORY FINISHED IMMEDIATELY AFTER CLEANING AND PRETREATING WITH MANUFACTURER'S STANDARD TWO-COAT, BAKED-ON FINISH CONSISTING OF PRIME COAT AND THERMOSETTING TOPCOAT.

INCOMING MAINS
LOCATION: CONVERTIBLE BETWEEN TOP AND BOTTOM
MAIN LUG INTERIORS UP TO 400 AMPERES SHALL BE FIELD CONVERTIBLE TO MAIN BREAKER.

PHASE, NEUTRAL, AND GROUND BUSES:
TIN-PLATED COPPER.
INTERIORS SHALL BE FACTORY ASSEMBLED INTO A UNIT. REPLACING SWITCHING AND PROTECTIVE DEVICES SHALL NOT DISTURB ADJACENT UNITS OR REQUIRE REMOVING THE MAIN BUS CONNECTORS.
EQUIPMENT GROUND BUS: ADEQUATE FOR FEEDER AND BRANCH-CIRCUIT EQUIPMENT GROUNDING CONDUCTORS; BONDED TO BOX.
FULL-SIZED NEUTRAL: EQUIPPED WITH FULL-CAPACITY BONDING STRAP FOR SERVICE ENTRANCE APPLICATIONS. MOUNT ELECTRICALLY ISOLATED FROM ENCLOSURE. DO NOT MOUNT NEUTRAL BUS IN GUTTER.

CONDUCTOR CONNECTORS:
SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
TIN-PLATED COPPER.
TERMINATIONS SHALL ALLOW USE OF 75 DEG C RATED CONDUCTORS WITHOUT DERATING.
LUGS SUITABLE FOR INDICATED CONDUCTOR SIZES, WITH ADDITIONAL GUTTER SPACE, IF REQUIRED, FOR LARGER CONDUCTORS.
MAIN AND NEUTRAL LUGS: COMPRESSION TYPE, WITH A LUG ON THE NEUTRAL BAR FOR EACH POLE IN THE PANELBOARD.
GROUND LUGS AND BUS-CONFIGURED TERMINATORS: COMPRESSION TYPE, WITH A LUG ON THE BAR FOR EACH POLE IN THE PANELBOARD.

PANELBOARD SHORT-CIRCUIT CURRENT RATING:
FULLY RATED TO INTERRUPT SYMMETRICAL SHORT-CIRCUIT CURRENT AVAILABLE AT TERMINALS. ASSEMBLY LISTED BY AN NRTL FOR 100 PERCENT INTERRUPTING CAPACITY. PANELBOARDS AND OVERCURRENT PROTECTIVE DEVICES RATED 240 V OR LESS SHALL HAVE SHORT- CIRCUIT RATINGS AS SHOWN ON DRAWINGS, BUT NOT LESS THAN 10,000 A RMS SYMMETRICAL.

DISTRIBUTION PANELBOARDS
PANELBOARDS: NEMA PB 1, DISTRIBUTION TYPE.
MAINS: CIRCUIT BREAKER OR LUGS ONLY.
BRANCH OVERCURRENT PROTECTIVE DEVICES FOR CIRCUIT-BREAKER FRAME SIZES LARGER THAN 125 A: BOLT-ON CIRCUIT BREAKERS.

BRANCH CIRCUIT PANELBOARDS
PANELBOARDS: NEMA PB 1, LIGHTING AND APPLIANCE BRANCH-CIRCUIT TYPE.
CIRCUIT BREAKER OR LUGS ONLY.
BRANCH OVERCURRENT PROTECTIVE DEVICES: BOLT-ON CIRCUIT BREAKERS, REPLACEABLE WITHOUT DISTURBING ADJACENT UNITS.
DOORS: DOOR-IN-DOOR CONSTRUCTION WITH CONCEALED HINGES; SECURED WITH MULTIPOINT LATCH WITH TUMBLER LOCK; KEYED ALIKE. OUTER DOOR SHALL PERMIT FULL ACCESS TO THE PANEL INTERIOR. INNER DOOR SHALL PERMIT ACCESS TO BREAKER OPERATING HANDLES AND LABELING, BUT CURRENT CARRYING TERMINALS AND BUS HALL REMAIN CONCEALED.

CIRCUIT BREAKERS

COMPLY WITH UL 489, WITH INTERRUPTING CAPACITY TO MEET AVAILABLE FAULT CURRENTS.

THERMAL-MAGNETIC CIRCUIT BREAKERS: INVERSE TIME-CURRENT ELEMENT FOR LOW-LEVEL OVERLOADS AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS. ADJUSTABLE MAGNETIC TRIP SETTING FOR CIRCUIT-BREAKER FRAME SIZES 250 A AND LARGER.

ADJUSTABLE INSTANTANEOUS-TRIP CIRCUIT BREAKERS: MAGNETIC TRIP ELEMENT WITH FRONTMOUNTED, FIELD-ADJUSTABLE TRIP SETTING.

GFCI CIRCUIT BREAKERS: SINGLE- AND DOUBLE-POLE CONFIGURATIONS WITH CLASS A GROUNDFAULT PROTECTION (6-MA TRIP).

MCCB FEATURES AND ACCESSORIES:

- STANDARD FRAME SIZES, TRIP RATINGS, AND NUMBER OF POLES.
- LUGS: MECHANICAL STYLE, SUITABLE FOR NUMBER, SIZE, TRIP RATINGS, AND CONDUCTOR MATERIAL.
- APPLICATION LISTING: APPROPRIATE FOR APPLICATION.
- GROUND-FAULT PROTECTION: INTEGRALLY MOUNTED RELAY AND TRIP UNIT WITH
-

ADJUSTABLE PICKUP AND TIME-DELAY SETTINGS, PUSH-TO-TEST FEATURE, AND GROUNDFAULT INDICATOR

ENCLOSED SWITCHES

NON-FUSIBLE SWITCHES
TYPE HD, HEAVY DUTY, SINGLE THROW, THREE-POLE, 600V AC, 1200A AND SMALLER, HORSEPOWER RATED.

UL 98 AND NEMA KS 1.

LOCKABLE HANDLE WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND INTERLOCKED WITH COVER IN THE CLOSED POSITION.

ACCESSORIES
EQUIPMENT GROUND KIT: INTERNALLY MOUNTED AND LABELED FOR COPPER AND ALUMINUM GROUND CONDUCTORS.

NEUTRAL KIT: INTERNALLY MOUNTED; INSULATED, CAPABLE OF BEING GROUNDED AND BONDED; LABELED FOR COPPER AND ALUMINUM NEUTRAL CONDUCTORS.

CLASS R FUSE KIT: PROVIDES REJECTION OF OTHER FUSE TYPES WHEN CLASS R FUSES ARE SPECIFIED.

HOOK STICK HANDLE: ALLOWS USE OF A HOOK STICK TO OPERATE THE HANDLE.

LUGS: MECHANICAL TYPE, SUITABLE FOR NUMBER, SIZE, AND CONDUCTOR MATERIAL.

SERVICE-RATED SWITCHES: LABELED FOR USE AS SERVICE EQUIPMENT.

ENCLOSURES

ENCLOSED SWITCHES AND CIRCUIT BREAKERS: UL 489, NEMA KS 1, NEMA 250, AND UL 50, TO COMPLY WITH ENVIRONMENTAL CONDITIONS AT INSTALLED LOCATION.

ENCLOSURE FINISH: THE ENCLOSURE SHALL BE FINISHED WITH GRAY BAKED ENAMEL PAINT,

ELECTRODEPOSITED ON CLEANED, PHOSPHATIZED STEEL (NEMA 250) TYPE 1.

CONDUIT ENTRY: NEMA 250 TYPES 4, 4X, AND 12 ENCLOSURES SHALL CONTAIN NO KNOCKOUTS. NEMA 250 TYPES 7 AND 9 ENCLOSURES SHALL BE PROVIDED WITH THREADED CONDUIT OPENINGS IN BOTH END WALLS.

OPERATING MECHANISM: THE CIRCUIT-BREAKER OPERATING HANDLE SHALL BE EXTERNALLY OPERABLE WITH THE OPERATING MECHANISM BEING AN INTEGRAL PART OF THE BOX, NOT THE COVER. THE COVER INTERLOCK MECHANISM SHALL HAVE AN EXTERNALLY OPERATED OVERRIDE. THE OVERRIDE SHALL NOT PERMANENTLY DISABLE THE INTERLOCK MECHANISM, WHICH SHALL RETURN TO THE LOCKED POSITION ONCE THE OVERRIDE IS RELEASED. THE TOOL USED TO OVERRIDE THE COVER INTERLOCK MECHANISM SHALL NOT BE REQUIRED TO ENTER THE ENCLOSURE IN ORDER TO OVERRIDE THE INTERLOCK.

LUMINAIRES

ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND APPLICATION.

RECESSED LUMINAIRES SHALL COMPLY WITH NEMA LE 4.

CALIFORNIA TITLE 24 COMPLIANT.

FIXTURES: AS SHOWN ON THE PLANS.

LIGHTING CONTROLS

WALL-MOUNTED SWITCHES

SWITCH SHALL INCLUDE ON/OFF BUTTONS AND RAISE/LOWER BUTTONS WHERE DIMMING IS INDICATED.

LOWERCASE LETTERS MAY BE USED TO INDICATE SWITCHING CONFIGURATION.

MULTI-ZONE DIMMING CONTROL SHALL INCLUDE MASTER ON AND OFF BUTTONS IN ADDITION TO INDIVIDUAL ZONE CONTROL.

OCCUPANCY SENSORS

OCCUPANCY SENSOR SHALL HAVE DURABLE LENS, UTILIZE BOTH PASSIVE INFRARED (PIR) AND ULTRASONIC/MICROPHONIC TECHNOLOGY.

INCLUDE ON/OFF BUTTONS AND RAISE/LOWER BUTTONS WHERE WALL MOUNTED AND DIMMING IS INDICATED.

DAYLIGHT SENSORS

DAYLIGHT SENSOR SHALL HAVE DURABLE LENS, UTILIZE AN INTEGRAL PHOTODIODE TO MEASURE AMBIENT LIGHT LEVELS AND BE PROVIDED WITH AN ADJUSTABLE TIME DELAY AND DEADBAND.

SENSOR SHALL BE CONNECTED TO CONTROL UNIT TO CONTINUOUSLY DIM SELECTED LUMINAIRES UP AND DOWN BASED ON THE MEASURED LIGHT LEVEL IN THE CONTROLLED SPACE.

CONTROL UNITS

UNIT WITH INTEGRATED TRANSFORMERS SHALL BE USED TO PROVIDE POWER TO OCCUPANCY SENSORS AND OTHER CONTROL DEVICES.

UNIT SHALL BE LOCATED WITHIN OR CONNECTED TO JUNCTION BOXES.

UNIT SHALL BE 120-277V RATED WITH NO MINIMUM LOAD.

CONTINUOUS DIMMING:

- SYSTEM OR WALL-BASED OCCUPANCY SENSORS SHALL BE PROVIDED WITH CONTROL UNITS TO PERFORM THE LUMINAIRE DIMMING REQUIREMENTS AS INDICATED.

PLUG-LOADS CONTROL

- WHERE ADDITIONAL 120-277V LOADS ARE TO BE CONTROLLED BY THE ROOM CONTROLLER, A DESIGNATED CONTROL UNIT SHALL BE PROVIDED AS REQUIRED.
- THE OCCUPANCY SENSOR-CONTROLLED LOADS SHALL BE POWERED ON REGASRDLESS OF THE LIGHTING CONTROL STATE.

EXECUTION

PROTECTION AND CLEANUP

PROTECTION AND RESTORATION: SUITABLY PROTECT EQUIPMENT PROVIDED UNDER THIS DIVISION DURING CONSTRUCTION. RESTORE DAMAGED SURFACES AND ITEMS TO "LIKE NEW" CONDITION BEFORE A REQUEST FOR SUBSTANTIAL COMPLETION INSPECTION.

HANDLING: MATERIALS SHALL BE PROPERLY PROTECTED AND RACEWAY OPENINGS SHALL BE TEMPORARILY CLOSED BY THE CONTRACTOR TO PREVENT OBSTRUCTION AND DAMAGE. POST NOTICE PROHIBITING THE USE OF SYSTEMS PROVIDED UNDER THIS CONTRACT, PRIOR TO COMPLETION OF WORK AND ACCEPTANCE OF SYSTEMS BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HIS MATERIALS FROM DAMAGE AND THEFT

SAFEGUARDS: THE CONTRACTOR SHALL FURNISH, PLACE AND MAINTAIN PROPER SAFETY GUARDS FOR THE PREVENTION OF ACCIDENTS THAT MIGHT BE CAUSED BY THE WORKMANSHIP, MATERIALS, EQUIPMENT OR SYSTEMS PROVIDED UNDER THIS CONTRACT.

CLEANUP: KEEP THE JOB SITE FREE FROM DEBRIS AND RUBBISH. REMOVE DEBRIS AND RUBBISH FROM THE SITE AND LEAVE PREMISES IN CLEAN CONDITION ON A DAILY BASIS.

SYSTEMS GUARANTEE

GENERAL: PROVIDE A ONE-YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER FOR ANY DEFECTIVE WORKMANSHIP OR MATERIAL, WHICH HAS BEEN PROVIDED UNDER THIS CONTRACT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM. THE GUARANTEE SHALL INCLUDE LAMPS, FOR NINETY DAYS AFTER DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM. EXPLAIN THE PROVISIONS OF GUARANTEE TO THE OWNER AT THE "DEMONSTRATION OF COMPLETED SYSTEM".

FINAL OBSERVATION

GENERAL: WORK SHALL BE COMPLETED, AND FORMS AND OTHER INFORMATION SHALL BE SUBMITTED FOR ACCEPTANCE ONE WEEK PRIOR TO THE REQUEST FOR FINAL OBSERVATION OF THE INSTALLATION.

SPECIAL CONSIDERATIONS

COMPLY WITH SPECIAL REQUIREMENTS IMPOSED AT SITE BY OWNER. THIS MAY INCLUDE BADGING OF EMPLOYEES, PROHIBITION OF SMOKING, SPECIAL WORKING HOURS, OR SPECIAL WORKING CONDITIONS.

METHODS FOR RACEWAY INSTALLATION

OUTDOORS:
APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED:

- EXPOSED CONDUIT: GRC, RNC, OR TYPE EPC-40-PVC.
- CONCEALED CONDUIT, ABOVEGROUND: GRC.
- UNDERGROUND CONDUIT: RNC, TYPE EPC-40-PVC.
- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): LFMC.
- BOXES AND ENCLOSURES, ABOVEGROUND: NEMA 250, TYPE 4.

INDOORS:
APPLY RACEWAY PRODUCTS AS SPECIFIED BELOW UNLESS OTHERWISE INDICATED:

- EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: EMT.
- EXPOSED, NOT SUBJECT TO SEVERE PHYSICAL DAMAGE: EMT.
- EXPOSED AND SUBJECT TO SEVERE PHYSICAL DAMAGE: GRC.
- CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITIONS: EMT.
- CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
- DAMP OR WET LOCATIONS: GRC.
- BOXES AND ENCLOSURES: NEMA 250, TYPE 1, EXCEPT USE NEMA 250, TYPE 4 STAINLESS STEEL IN INSTITUTIONAL AND COMMERCIAL KITCHENS AND DAMP OR WET LOCATIONS.

MINIMUM RACEWAY SIZE: 1/2-INCH TRADE SIZE.

RACEWAY FITTINGS:

- COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
- RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIGID STEEL CONDUIT FITTINGS UNLESS OTHERWISE INDICATED. COMPLY WITH NEMA FB 2.10.
- PVC EXTERNALLY COATED, RIGID STEEL CONDUITS: USE ONLY FITTINGS LISTED FOR USE WITH THIS TYPE OF CONDUIT. PATCH AND SEAL ALL JOINTS, NICKS, AND SCRAPES IN PVC COATING AFTER INSTALLING CONDUITS AND FITTINGS. USE SEALANT RECOMMENDED BY FITTING MANUFACTURER AND APPLY IN THICKNESS AND NUMBER OF COATS RECOMMENDED BY MANUFACTURER.
- EMT: USE SETSCREW, STEEL FITTINGS. COMPLY WITH NEMA FB 2.10.
- FLEXIBLE CONDUIT: USE ONLY FITTINGS LISTED FOR USE WITH FLEXIBLE CONDUIT. COMPLY WITH NEMA FB 2.20.

DO NOT INSTALL ALUMINUM CONDUITS, BOXES, OR FITTINGS IN CONTACT WITH CONCRETE OR EARTH. DO NOT INSTALL NONMETALLIC CONDUIT WHERE AMBIENT TEMPERATURE EXCEEDS 120 DEG F.

RACEWAY INSTALLATION

COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICTER. COMPLY WITH NECA 102 FOR ALUMINUM CONDUITS. COMPLY WITH NFPA 70 LIMITATIONS FOR TYPES OF RACEWAYS ALLOWED IN SPECIFIC OCCUPANCIES AND NUMBER OF FLOORS.

DO NOT INSTALL RACEWAYS OR ELECTRICAL ITEMS ON ANY "EXPLOSION-RELIEF" WALLS OR ROTATING EQUIPMENT.

DO NOT FASTEN CONDUITS ONTO THE BOTTOM SIDE OF A METAL DECK ROOF.

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.

COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.

ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.

INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION.

MAKE BENDS IN RACEWAY USING LARGE-RADIUS PREFORMED ELLS. FIELD BENDING SHALL BE ACCORDING TO NFPA 70 MINIMUM RADII REQUIREMENTS. USE ONLY EQUIPMENT SPECIFICALLY DESIGNED FOR MATERIAL AND SIZE INVOLVED.

CONCEAL CONDUIT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. INSTALL CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES.

SUPPORT CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH ATTACHED.

RACEWAYS EMBEDDED IN SLABS:

- RUN CONDUIT LARGER THAN 1-INCH TRADE SIZE, PARALLEL OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT. SECURE RACEWAYS TO REINFORCEMENT AT MAXIMUM 10- FOOT INTERVALS.
- ARRANGE RACEWAYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH EXPANSION FITTINGS.
- ARRANGE RACEWAYS TO KEEP A MINIMUM OF 1 INCH OF CONCRETE COVER IN ALL DIRECTIONS.
- DO NOT EMBED THREADLESS FITTINGS IN CONCRETE UNLESS SPECIFICALLY APPROVED BY ARCHITECT FOR EACH SPECIFIC LOCATION.

STUB-UPS TO ABOVE RECESSED CEILINGS:

- USE EMT OR RMC FOR RACEWAYS.
- USE A CONDUIT BUSHING OR INSULATED FITTING TO TERMINATE STUB-UPS NOT TERMINATED IN HUBS OR IN AN ENCLOSURE.

THREADED CONDUIT JOINTS, EXPOSED TO WET, DAMP, CORROSIVE, OR OUTDOOR CONDITIONS: APPLY LISTED COMPOUND TO THREADS OF RACEWAY AND FITTINGS BEFORE MAKING UP JOINTS. FOLLOW COMPOUND MANUFACTURER'S WRITTEN INSTRUCTIONS.

COAT FIELD-CUT THREADS ON PVC-COATED RACEWAY WITH A CORROSION-PREVENTING CONDUCTIVE COMPOUND PRIOR TO ASSEMBLY.

TERMINATE THREADED CONDUITS INTO THREADED HUBS OR WITH LOCKNUTS ON INSIDE AND OUTSIDE OF BOXES OR CABINETS. INSTALL BUSHINGS ON CONDUITS UP TO 1-1/4-INCH TRADE SIZE AND INSULATED THROAT METAL BUSHINGS ON 1-1/2-INCH TRADE SIZE AND LARGER CONDUITS TERMINATED WITH LOCKNUTS. INSTALL INSULATED THROAT METAL GROUNDING BUSHINGS ON SERVICE CONDUITS.

INSTALL RACEWAYS SQUARE TO THE ENCLOSURE AND TERMINATE AT ENCLOSURES WITH LOCKNUTS. INSTALL LOCKNUTS HAND TIGHT PLUS 1/4 TURN MORE.

DO NOT RELY ON LOCKNUTS TO PENETRATE NONCONDUCTIVE COATINGS ON ENCLOSURES.

REMOVE COATINGS IN THE LOCKNUT AREA PRIOR TO ASSEMBLING CONDUIT TO ENCLOSURE TO ASSURE A CONTINUOUS GROUND PATH.

CUT CONDUIT PERPENDICULAR TO THE LENGTH. FOR CONDUITS 2-INCH TRADE SIZE AND LARGER, USE ROLL CUTTER OR A GUIDE TO MAKE CUT STRAIGHT AND PERPENDICULAR TO THE LENGTH.

INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE. CAP UNDERGROUND RACEWAYS DESIGNATED AS SPARE ABOVE GRADE ALONGSIDE RACEWAYS IN USE.

INSTALL RACEWAY SEALING FITTINGS AT ACCESSIBLE LOCATIONS ACCORDING TO NFPA 70 AND FILL THEM WITH LISTED SEALING COMPOUND. FOR CONCEALED RACEWAYS, INSTALL EACH FITTING IN A FLUSH STEEL BOX WITH A BLANK COVER PLATE HAVING A FINISH SIMILAR TO THAT OF ADJACENT PLATES OR SURFACES. INSTALL RACEWAY SEALING FITTINGS ACCORDING TO NFPA 70.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL ELECTRICAL SPECIFICATION

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

PROJECT NO: 484.2022.03

DRAWING NO: E101

1/2" 1" 2"

RACEWAY INSTALLATION

COMPLY WITH NECA 1 AND NECA 101 FOR INSTALLATION REQUIREMENTS EXCEPT WHERE REQUIREMENTS ON DRAWINGS OR IN THIS ARTICLE ARE STRICTER. COMPLY WITH NECA 102 FOR ALUMINUM CONDUITS. COMPLY WITH NFPA 70 LIMITATIONS FOR TYPES OF RACEWAYS ALLOWED IN SPECIFIC OCCUPANCIES AND NUMBER OF FLOORS.

DO NOT INSTALL RACEWAYS OR ELECTRICAL ITEMS ON ANY "EXPLOSION-RELIEF" WALLS OR ROTATING EQUIPMENT.

DO NOT FASTEN CONDUITS ONTO THE BOTTOM SIDE OF A METAL DECK ROOF.

KEEP RACEWAYS AT LEAST 6 INCHES AWAY FROM PARALLEL RUNS OF FLUES AND STEAM OR HOT-WATER PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING.

COMPLETE RACEWAY INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION.

ARRANGE STUB-UPS SO CURVED PORTIONS OF BENDS ARE NOT VISIBLE ABOVE FINISHED SLAB.

INSTALL NO MORE THAN THE EQUIVALENT OF THREE 90-DEGREE BENDS IN ANY CONDUIT RUN EXCEPT FOR CONTROL WIRING CONDUITS, FOR WHICH FEWER BENDS ARE ALLOWED. SUPPORT WITHIN 12 INCHES OF CHANGES IN DIRECTION.

MAKE BENDS IN RACEWAY USING LARGE-RADIUS PREFORMED ELLS. FIELD BENDING SHALL BE ACCORDING TO NFPA 70 MINIMUM RADII REQUIREMENTS. USE ONLY EQUIPMENT SPECIFICALLY DESIGNED FOR MATERIAL AND SIZE INVOLVED.

CONCEAL CONDUIT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED. INSTALL CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES.

SUPPORT CONDUIT WITHIN 12 INCHES OF ENCLOSURES TO WHICH ATTACHED.

RACEWAYS EMBEDDED IN SLABS:

- RUN CONDUIT LARGER THAN 1-INCH TRADE SIZE, PARALLEL OR AT RIGHT ANGLES TO MAIN REINFORCEMENT. WHERE AT RIGHT ANGLES TO REINFORCEMENT, PLACE CONDUIT CLOSE TO SLAB SUPPORT. SECURE RACEWAYS TO REINFORCEMENT AT MAXIMUM 10- FOOT INTERVALS.
- ARRANGE RACEWAYS TO CROSS BUILDING EXPANSION JOINTS AT RIGHT ANGLES WITH EXPANSION FITTINGS.
- ARRANGE RACEWAYS TO KEEP A MINIMUM OF 1 INCH OF CONCRETE COVER IN ALL DIRECTIONS.
- DO NOT EMBED THREADLESS FITTINGS IN CONCRETE UNLESS SPECIFICALLY APPROVED BY ARCHITECT FOR EACH SPECIFIC LOCATION.

STUB-UPS TO ABOVE RECESSED CEILINGS:

- USE EMT OR RMC FOR RACEWAYS.
- USE A CONDUIT BUSHING OR INSULATED FITTING TO TERMINATE STUB-UPS NOT TERMINATED IN HUBS OR IN AN ENCLOSURE.

THREADED CONDUIT JOINTS, EXPOSED TO WET, DAMP, CORROSIVE, OR OUTDOOR CONDITIONS: APPLY LISTED COMPOUND TO THREADS OF RACEWAY AND FITTINGS BEFORE MAKING UP JOINTS. FOLLOW COMPOUND MANUFACTURER'S WRITTEN INSTRUCTIONS.

COAT FIELD-CUT THREADS ON PVC-COATED RACEWAY WITH A CORROSION-PREVENTING CONDUCTIVE COMPOUND PRIOR TO ASSEMBLY.

TERMINATE THREADED CONDUITS INTO THREADED HUBS OR WITH LOCKNUTS ON INSIDE AND OUTSIDE OF BOXES OR CABINETS. INSTALL BUSHINGS ON CONDUITS UP TO 1-1/4-INCH TRADE SIZE AND INSULATED THROAT METAL BUSHINGS ON 1-1/2-INCH TRADE SIZE AND LARGER CONDUITS TERMINATED WITH LOCKNUTS. INSTALL INSULATED THROAT METAL GROUNDING BUSHINGS ON SERVICE CONDUITS.

INSTALL RACEWAYS SQUARE TO THE ENCLOSURE AND TERMINATE AT ENCLOSURES WITH LOCKNUTS. INSTALL LOCKNUTS HAND TIGHT PLUS 1/4 TURN MORE.

DO NOT RELY ON LOCKNUTS TO PENETRATE NONCONDUCTIVE COATINGS ON ENCLOSURES.

REMOVE COATINGS IN THE LOCKNUT AREA PRIOR TO ASSEMBLING CONDUIT TO ENCLOSURE TO ASSURE A CONTINUOUS GROUND PATH.

CUT CONDUIT PERPENDICULAR TO THE LENGTH. FOR CONDUITS 2-INCH TRADE SIZE AND LARGER, USE ROLL CUTTER OR A GUIDE TO MAKE CUT STRAIGHT AND PERPENDICULAR TO THE LENGTH.

INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE OR MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE STRENGTH. LEAVE AT LEAST 12 INCHES OF SLACK AT EACH END OF PULL WIRE. CAP UNDERGROUND RACEWAYS DESIGNATED AS SPARE ABOVE GRADE ALONGSIDE RACEWAYS IN USE.

INSTALL RACEWAY SEALING FITTINGS AT ACCESSIBLE LOCATIONS ACCORDING TO NFPA 70 AND FILL THEM WITH LISTED SEALING COMPOUND. FOR CONCEALED RACEWAYS, INSTALL EACH FITTING IN A FLUSH STEEL BOX WITH A BLANK COVER PLATE HAVING A FINISH SIMILAR TO THAT OF ADJACENT PLATES OR SURFACES. INSTALL RACEWAY SEALING FITTINGS ACCORDING TO NFPA 70.

INSTALL DEVICES TO SEAL RACEWAY INTERIORS AT ACCESSIBLE LOCATIONS. LOCATE SEALS SO NO FITTINGS OR BOXES ARE BETWEEN THE SEAL AND THE FOLLOWING CHANGES OF ENVIRONMENTS. SEAL THE INTERIOR OF ALL RACEWAYS AT THE FOLLOWING POINTS:

- WHERE CONDUITS PASS FROM WARM TO COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPACES.
- WHERE AN UNDERGROUND SERVICE RACEWAY ENTERS A BUILDING OR STRUCTURE.
- CONDUIT EXTENDING FROM INTERIOR TO EXTERIOR OF BUILDING.
- CONDUIT EXTENDING INTO PRESSURIZED DUCT AND EQUIPMENT.
- CONDUIT EXTENDING INTO PRESSURIZED ZONES THAT ARE AUTOMATICALLY CONTROLLED TO MAINTAIN DIFFERENT PRESSURE SET POINTS.
- WHERE OTHERWISE REQUIRED BY NFPA 70.

COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SOLVENT WELDING RNC AND FITTINGS.

EXPANSION-JOINT FITTINGS:

INSTALL IN EACH RUN OF ABOVEGROUND RNC THAT IS LOCATED WHERE ENVIRONMENTAL TEMPERATURE CHANGE MAY EXCEED 30 DEG F AND THAT HAS STRAIGHT-RUN LENGTH THAT EXCEEDS 25 FEET. INSTALL IN EACH RUN OF ABOVEGROUND RMC AND EMT CONDUIT THAT IS LOCATED WHERE ENVIRONMENTAL TEMPERATURE CHANGE MAY EXCEED 100 DEG F AND THAT HAS A STRAIGHT-RUN LENGTH THAT EXCEEDS 100 FEET.

INSTALL TYPE AND QUANTITY OF FITTINGS THAT ACCOMMODATE TEMPERATURE CHANGE LISTED FOR EACH OF THE FOLLOWING LOCATIONS:

- OUTDOOR LOCATIONS NOT EXPOSED TO DIRECT SUNLIGHT: 125 DEG F TEMPERATURE CHANGE.
- OUTDOOR LOCATIONS EXPOSED TO DIRECT SUNLIGHT: 155 DEG F TEMPERATURE CHANGE.
- INDOOR SPACES CONNECTED WITH OUTDOORS WITHOUT PHYSICAL SEPARATION: 125 DEG F TEMPERATURE CHANGE.
- ATTICS: 135 DEG F TEMPERATURE CHANGE.

INSTALL EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR
STRUCTURE EXPANSION JOINTS.

INSTALL EACH EXPANSION-JOINT FITTING WITH POSITION, MOUNTING, AND PISTON SETTING SELECTED ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR CONDITIONS AT SPECIFIC LOCATION AT TIME OF INSTALLATION. INSTALL CONDUIT SUPPORTS TO ALLOW FOR EXPANSION MOVEMENT.

PROVIDE EXPANSION/DEFLECTION FITTING PER NEC 300.4 (H) WHERE RACEWAY CROSSES STRUCTURAL JOINT INTENDED FOR EXPANSION/CONTRACTION/DEFLECTION TO ACCOMMODATE HORIZONTAL AND VERTICAL MOVEMENT.

FLEXIBLE CONDUIT CONNECTIONS: COMPLY WITH NEMA RV 3. USE A MAXIMUM OF 36 INCHES OF FLEXIBLE CONDUIT FOR RECESSED AND SEMI-RECESSED LUMINAIRES, EQUIPMENT SUBJECT TO VIBRATION, NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS.

USE LFMC IN DAMP OR WET LOCATIONS SUBJECT TO SEVERE PHYSICAL DAMAGE.

USE LFMC OR LFNC IN DAMP OR WET LOCATIONS NOT SUBJECT TO SEVERE PHYSICAL DAMAGE.

HORIZONTALLY SEPARATE BOXES MOUNTED ON OPPOSITE SIDES OF WALLS SO THEY ARE NOT IN THE SAME VERTICAL CHANNEL.

LOCATE BOXES SO THAT COVER OR PLATE WILL NOT SPAN DIFFERENT BUILDING FINISHES.

SUPPORT BOXES OF THREE GANGS OR MORE FROM MORE THAN ONE SIDE BY SPANNING TWO FRAMING MEMBERS OR MOUNTING ON BRACKETS SPECIFICALLY DESIGNED FOR THE PURPOSE.

FASTEN JUNCTION AND PULL BOXES TO OR SUPPORT FROM BUILDING STRUCTURE. DO NOT SUPPORT BOXES BY CONDUITS.

SET METAL FLOOR BOXES LEVEL AND FLUSH WITH FINISHED FLOOR SURFACE.

SET NONMETALLIC FLOOR BOXES LEVEL. TRIM AFTER INSTALLATION TO FIT FLUSH WITH FINISHED FLOOR SURFACE.

INSTALLATION OF UNDERGROUND CONDUIT

DIRECT-BURIED CONDUIT

EXCAVATE TRENCH BOTTOM TO PROVIDE FIRM AND UNIFORM SUPPORT FOR CONDUIT.

AFTER INSTALLING CONDUIT, BACKFILL AND COMPACT. START AT TIE-IN POINT, AND WORK TOWARD END OF CONDUIT RUN, LEAVING CONDUIT AT END OF RUN FREE TO MOVE WITH EXPANSION AND CONTRACTION AS TEMPERATURE CHANGES DURING THIS PROCESS. FIRMLY HAND TAMP BACKFILL AROUND CONDUIT TO PROVIDE MAXIMUM SUPPORTING STRENGTH. AFTER PLACING CONTROLLED BACKFILL TO WITHIN 12 INCHES OF FINISHED GRADE, MAKE FINAL CONDUIT CONNECTION AT END OF RUN AND COMPLETE BACKFILLING WITH NORMAL COMPACTION.

INSTALL MANUFACTURED DUCT ELBOWS FOR STUB-UPS AT POLES AND EQUIPMENT AND AT BUILDING ENTRANCES THROUGH FLOOR UNLESS OTHERWISE INDICATED. ENCASE ELBOWS FOR STUB-UP DUCTS THROUGHOUT LENGTH OF ELBOW.

INSTALL MANUFACTURED RIGID STEEL CONDUIT ELBOWS FOR STUB-UPS AT POLES AND EQUIPMENT AND AT BUILDING ENTRANCES THROUGH FLOOR.

- COUPLE STEEL CONDUITS TO DUCTS WITH ADAPTERS DESIGNED FOR THIS PURPOSE, AND ENCASE COUPLING WITH 3 INCHES OF CONCRETE FOR A MINIMUM OF 12 INCHES ON EACH SIDE OF THE COUPLING.
- FOR STUB-UPS AT EQUIPMENT MOUNTED ON OUTDOOR CONCRETE BASES AND WHERE CONDUITS PENETRATE BUILDING FOUNDATIONS, EXTEND STEEL CONDUIT HORIZONTALLY A MINIMUM OF 60 INCHES FROM EDGE OF FOUNDATION OR EQUIPMENT BASE. INSTALL INSULATED GROUNDING BUSHINGS ON TERMINATIONS AT EQUIPMENT.

WARNING PLANKS: BURY WARNING PLANKS APPROXIMATELY 12 INCHES ABOVE DIRECTBURIED CONDUITS BUT A MINIMUM OF 6 INCHES BELOW GRADE. ALIGN PLANKS ALONG CENTERLINE OF CONDUIT.

INSTALLATION OF UNDERGROUND HANDHOLES AND BOXES

INSTALL HANDHOLES AND BOXES LEVEL AND PLUMB AND WITH ORIENTATION AND DEPTH COORDINATED WITH CONNECTING CONDUITS TO MINIMIZE BENDS AND DEFLECTIONS REQUIRED FOR PROPER ENTRANCES.

UNLESS OTHERWISE INDICATED, SUPPORT UNITS ON A LEVEL BED OF CRUSHED STONE OR GRAVEL, GRADED FROM 1/2-INCH SIEVE TO NO. 4 SIEVE AND COMPACTED TO SAME DENSITY AS ADJACENT UNDISTURBED EARTH.

ELEVATION: IN PAVED AREAS, SET SO COVER SURFACE WILL BE FLUSH WITH FINISHED GRADE. SET COVERS OF OTHER ENCLOSURES 1 INCH ABOVE FINISHED GRADE.

INSTALL REMOVABLE HARDWARE, INCLUDING PULLING EYES, CABLE STANCHIONS, CABLE ARMS, AND INSULATORS, AS REQUIRED FOR INSTALLATION AND SUPPORT OF CABLES AND CONDUCTORS AND AS INDICATED. SELECT ARM LENGTHS TO BE LONG ENOUGH TO PROVIDE SPARE SPACE FOR FUTURE CABLES BUT SHORT ENOUGH TO PRESERVE ADEQUATE WORKING CLEARANCES IN ENCLOSURE.

FIELD-CUT OPENINGS FOR CONDUITS ACCORDING TO ENCLOSURE MANUFACTURER'S WRITTEN INSTRUCTIONS. CUT WALL OF ENCLOSURE WITH A TOOL DESIGNED FOR MATERIAL TO BE CUT. SIZE HOLES FOR TERMINATING FITTINGS TO BE USED, AND SEAL AROUND PENETRATIONS AFTER FITTINGS ARE INSTALLED.

METHODS FOR CONDUCTOR INSTALLATION

MATERIALS APPLICATIONS

FEEDERS: COPPER; SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.

BRANCH CIRCUITS: COPPER. SOLID FOR NO. 12 AWG AND SMALLER; STRANDED FOR NO. 10 AWG AND LARGER.

CONDUCTOR INSULATION AND WIRING METHODS

SERVICE ENTRANCE: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.

FEEDERS; EXPOSED OR CONCEALED: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.

BRANCH CIRCUITS; EXPOSED OR CONCEALED: TYPE THHN/THWN-2, SINGLE CONDUCTORS IN RACEWAY.

INSTALLATION OF CONDUCTORS AND CABLES

CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED.

USE MANUFACTURER-APPROVED PULLING COMPOUND OR LUBRICANT WHERE NECESSARY; COMPOUND USED MUST NOT DETERIORATE CONDUCTOR OR INSULATION. DO NOT EXCEED MANUFACTURER'S RECOMMENDED MAXIMUM PULLING TENSIONS AND SIDEWALL PRESSURE VALUES.

USE PULLING MEANS, INCLUDING FISH TAPE, CABLE, ROPE, AND BASKET-WEAVE WIRE/CABLE GRIPS THAT WILL NOT DAMAGE CABLES OR RACEWAY.

INSTALL EXPOSED CABLES PARALLEL AND PERPENDICULAR TO SURFACES OF EXPOSED STRUCTURAL MEMBERS, AND FOLLOW SURFACE CONTOURS WHERE POSSIBLE.

CONNECTIONS

TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE- TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A-486B.

MAKE SPLICES, TERMINATIONS, AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL AND THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS.

USE OXIDE INHIBITOR IN EACH SPLICE, TERMINATION, AND TAP FOR ALUMINUM CONDUCTORS.

WIRING AT OUTLETS: INSTALL CONDUCTOR AT EACH OUTLET, WITH AT LEAST 12 INCHES OF SLACK.

COLOR-CODING
FOR PHASE- AND VOLTAGE-LEVEL IDENTIFICATION, 600 V OR LESS: USE COLORS LISTED BELOW FOR UNGROUNDED SERVICE FEEDER AND BRANCH-CIRCUIT CONDUCTORS.

COLOR SHALL BE FACTORY APPLIED OR FIELD APPLIED FOR SIZES LARGER THAN NO. 8 AWG IF AUTHORITIES HAVING JURISDICTION PERMIT.

COLORS FOR 208/120-V CIRCUITS:

- PHASE A: BLACK.
- PHASE B: RED.
- PHASE C: BLUE.

COLOR FOR NEUTRAL: WHITE.

COLOR FOR EQUIPMENT GROUNDS: BARE COPPER.

GROUNDING

UNLESS OTHERWISE INDICATED, GROUND ALL EXPOSED NON-CURRENT-CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, AND THE NEUTRAL OF ALL WIRING SYSTEMS IN ACCORDANCE WITH THE CEC, STATE, AND OTHER APPLICABLE LAWS AND REGULATIONS.

SUPPORTS AND HANGERS
ALL HANGERS, SUPPORTS, AND ATTACHMENTS TO THE STRUCTURE MUST BE CAPABLE OF WITHSTANDING THREE TIMES THE ANTICIPATED LOAD.

FIELD QUALITY CONTROL
PERFORM THE FOLLOWING TEST AND INSPECTIONS:

CONDUCTORS AND CABLES #6 AND LARGER:
INSPECT FOR PHYSICAL DAMAGE & CORRECT IDENTIFICATION.
TEST BOLTED CONNECTIONS FOR HIGH RESISTANCE USING A LOW-RESISTANCE OHMMETER.
TEST INSULATION RESISTANCE ON EACH CONDUCTOR FOR GROUND AND ADJACENT CONDUCTORS.

- APPLY A POTENTIAL OF 500V DC FOR 300V RATED CABLES FOR A ONE-MINUTE DURATION.
- APPLY A POTENTIAL OF 1000V DC FOR 600V RATED CABLES FOR A ONE-MINUTE DURATION.

TEST CONDUCTORS FOR CONTINUITY.
TEST PARALLEL CONDUCTORS FOR UNIFORM RESISTANCE.

GROUNDING AND BONDING

AFTER INSTALLING GROUNDING SYSTEM BUT BEFORE PERMANENT ELECTRICAL CIRCUITS HAVE BEEN ENERGIZED, TEST FOR COMPLIANCE WITH REQUIREMENTS.

INSPECT PHYSICAL AND MECHANICAL CONDITION. VERIFY TIGHTNESS OF ACCESSIBLE, BOLTED, ELECTRICAL CONNECTIONS WITH A CALIBRATED TORQUE WRENCH ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS.

REPORT MEASURED GROUND RESISTANCES THAT EXCEED THE FOLLOWING VALUES:

- POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY OF 500 KVA AND LESS: 10 OHMS.
- POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY OF 500 TO 1000 KVA: 5 OHMS.
- POWER AND LIGHTING EQUIPMENT OR SYSTEM WITH CAPACITY MORE THAN 1000 KVA: 3 OHMS.
- POWER DISTRIBUTION UNITS OR PANELBOARDS SERVING ELECTRONIC EQUIPMENT: 3 OHM(S).

EXCESSIVE GROUND RESISTANCE: IF RESISTANCE TO GROUND EXCEEDS SPECIFIED VALUES, NOTIFY ARCHITECT PROMPTLY AND INCLUDE RECOMMENDATIONS TO REDUCE GROUND RESISTANCE.

WIRING DEVICES

LINE VOLTAGE: ACCEPTABLE RANGE IS 105 TO 132 V.

PERCENT VOLTAGE DROP UNDER 15-A LOAD: A VALUE OF 6 PERCENT OR HIGHER IS UNACCEPTABLE.

GFCI TRIP: TEST FOR TRIPPING VALUES SPECIFIED IN UL 1436 AND UL 943.

USING THE TEST PLUG, VERIFY THAT THE DEVICE AND ITS OUTLET BOX ARE SECURELY MOUNTED.

TESTS SHALL BE DIAGNOSTIC, INDICATING DAMAGED CONDUCTORS, HIGH RESISTANCE AT THE CIRCUIT BREAKER, POOR CONNECTIONS, INADEQUATE FAULT-CURRENT PATH, DEFECTIVE DEVICES, OR SIMILAR PROBLEMS. CORRECT CIRCUIT CONDITIONS, REMOVE MALFUNCTIONING UNITS AND REPLACE WITH NEW AND RETEST AS SPECIFIED ABOVE.

SWITCHES AND MOLDED CASE CIRCUIT BREAKERS

VISUAL AND MECHANICAL INSPECTION

- INSPECT PHYSICAL AND MECHANICAL CONDITION.
- INSPECT ANCHORAGE, ALIGNMENT, GROUNDING, AND CLEARANCES.
- VERIFY MECHANICAL OPERATION INCLUDING BLADE ALIGNMENT, BLADE PENETRATION, TRAVEL STOPS, AND LUBRICATION OF MOVING PARTS.
- VERIFY THAT FUSE SIZES AND TYPES MATCH THE SPECIFICATIONS AND DRAWINGS.

ELECTRICAL TESTS

- PERFORM RESISTANCE MEASUREMENTS THROUGH BOLTED CONNECTIONS WITH A LOW- RESISTANCE OHMMETER. COMPARE BOLTED CONNECTION RESISTANCE VALUES TO VALUES OF SIMILAR CONNECTIONS. INVESTIGATE VALUES THAT DEVIATE FROM ADJACENT POLES OR SIMILAR SWITCHES BY MORE THAN 50 PERCENT OF THE LOWEST VALUE.
- PERFORM INSULATION-RESISTANCE TESTS FOR ONE MINUTE ON EACH POLE, PHASETO- PHASE AND PHASE-TO-GROUND WITH SWITCH CLOSED, AND ACROSS EACH OPEN POLE. APPLY VOLTAGE IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED DATA. IN THE ABSENCE OF MANUFACTURER'S PUBLISHED DATA, USE TABLE 100.1 FROM THE NETA ATS. INVESTIGATE VALUES OF INSULATION RESISTANCE LESS THAN THOSE PUBLISHED IN TABLE 100.1 OR AS RECOMMENDED IN MANUFACTURER'S PUBLISHED DATA.
- MEASURE FUSE RESISTANCE. INVESTIGATE FUSE-RESISTANCE VALUES THAT DEVIATE FROM EACH OTHER BY MORE THAN 15 PERCENT.

INTERIOR LIGHTING

OPERATIONAL TEST: AFTER INSTALLING LUMINAIRES, SWITCHES, AND ACCESSORIES, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST UNITS TO CONFIRM PROPER OPERATION.

TEST FOR EMERGENCY LIGHTING: INTERRUPT POWER SUPPLY TO DEMONSTRATE PROPER OPERATION. VERIFY TRANSFER FROM NORMAL POWER TO BATTERY POWER AND RETRANSFER TO NORMAL.

EXTERIOR LIGHTING

OPERATIONAL TEST: AFTER INSTALLING LUMINAIRES, SWITCHES, AND ACCESSORIES, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, TEST UNITS TO CONFIRM PROPER OPERATION.

VERIFY OPERATION OF PHOTOELECTRIC CONTROLS.

LIGHTING CONTROL DEVICES

OPERATIONAL TEST: AFTER INSTALLING TIME SWITCHES AND SENSORS, AND AFTER ELECTRICAL CIRCUITRY HAS BEEN ENERGIZED, START UNITS TO CONFIRM PROPER UNIT OPERATION.

TEST AND ADJUST CONTROLS AND SAFETIES. REPLACE DAMAGED AND MALFUNCTIONING CONTROLS AND EQUIPMENT.

CLEAN UP

UPON COMPLETION OF THE WORK OF THIS SECTION, REMOVE ALL MATERIAL, DEBRIS, AND EQUIPMENT ASSOCIATED WITH OR USED IN THE PERFORMANCE OF THIS WORK.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL ELECTRICAL SPECIFICATION

DEL NORTE COUNTY, CALIFORNIA

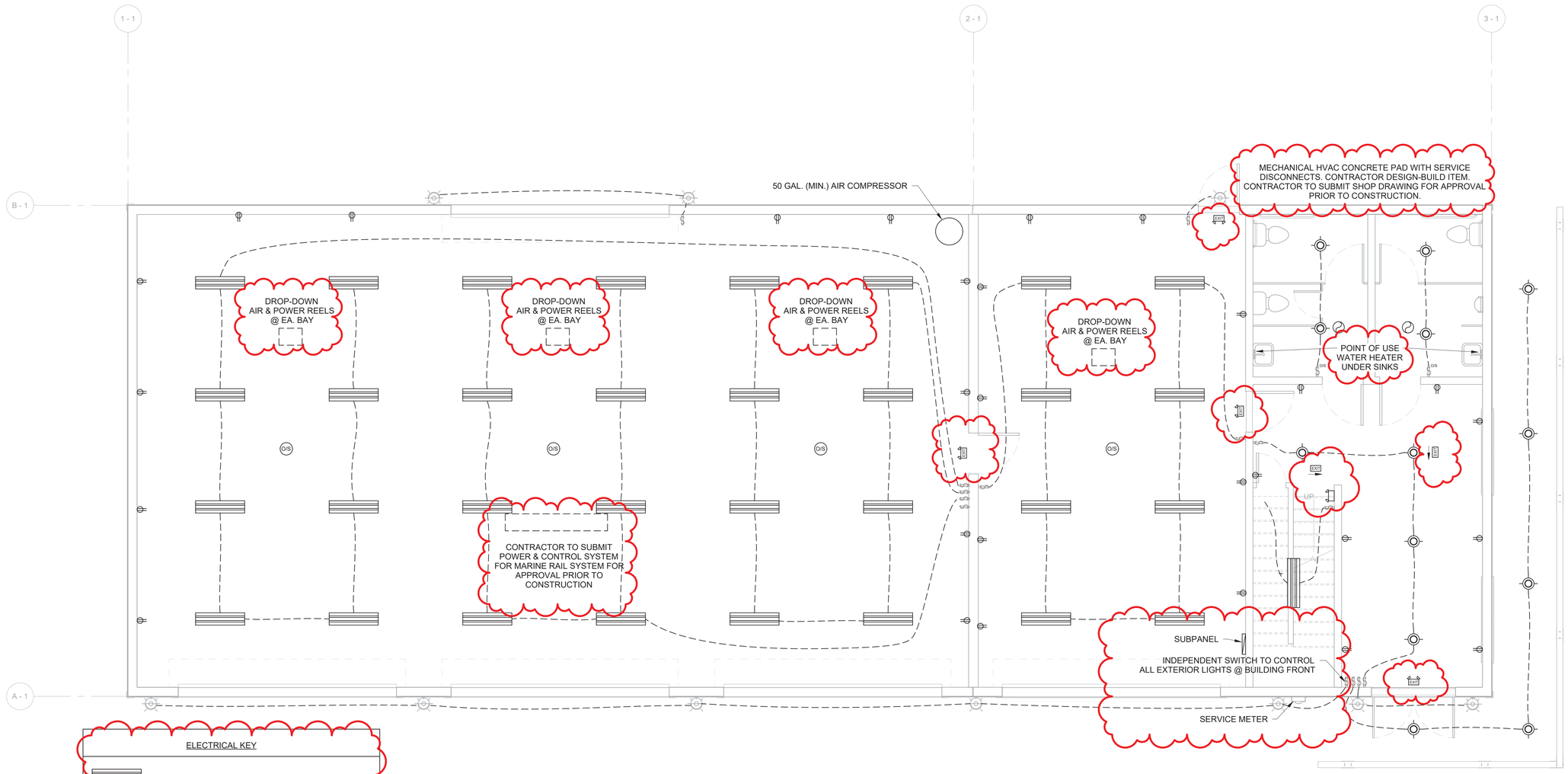
DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
E102

1/2" 1" 2"



FIRST FLOOR ELECTRICAL
SCALE: 1/4" = 1'-0"

ELECTRICAL KEY

- 4' LED FIXTURE
- LED CEILING LIGHT (MAY BE SUSPENDED)
- MIN. 50 CFM ENERGY STAR RAYED EXHAUST FAN, DUCTED TO EXTERIOR; FANS CONTROLLED BY A HUMIDSTAT
- LIGHT SWITCH
- LIGHT SWITCH - OCCUPANCY SENSOR
- CPF WALL LIGHT
- 120V DUPLEX CONVENIENCE RECEPTACLE
- 240V RANGE/DRYER RECEPTACLE
- DEDICATED HOOD RECEPTACLE
- DEDICATED REF/DW RECEPTACLE
- SMOKE DETECTOR
- EXIT SIGN w/ EMERGENCY 'BUG-EYE' LED
- EMERGENCY HI-OUTPUT 'BUG-EYE' LED
- EXIT SIGN (NO 'BUG-EYE' LIGHTS)
- O/S SMOKE DETECTOR

EXIT SIGNAGE SHALL COMPLY WITH CBC SEC. 1013

NOTE:

APPARATUS BAYS TO BE SEMI-CONDITIONED;

MECHANICAL SYSTEM SHALL BE SIZED SO THAT HEATING CAPACITY SHALL NOT EXCEED 10 Btu/HR-FT^2 AND THE COOLING CAPACITY SHALL NOT EXCEED 5 Btu/HR-FT^2

CONTRACTOR TO PROVIDE DESIGN FOR APPROVAL FOR MINI-SPLIT SYSTEM

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 1 - ELECTRICAL LAYOUT

DEL NORTE COUNTY, CALIFORNIA

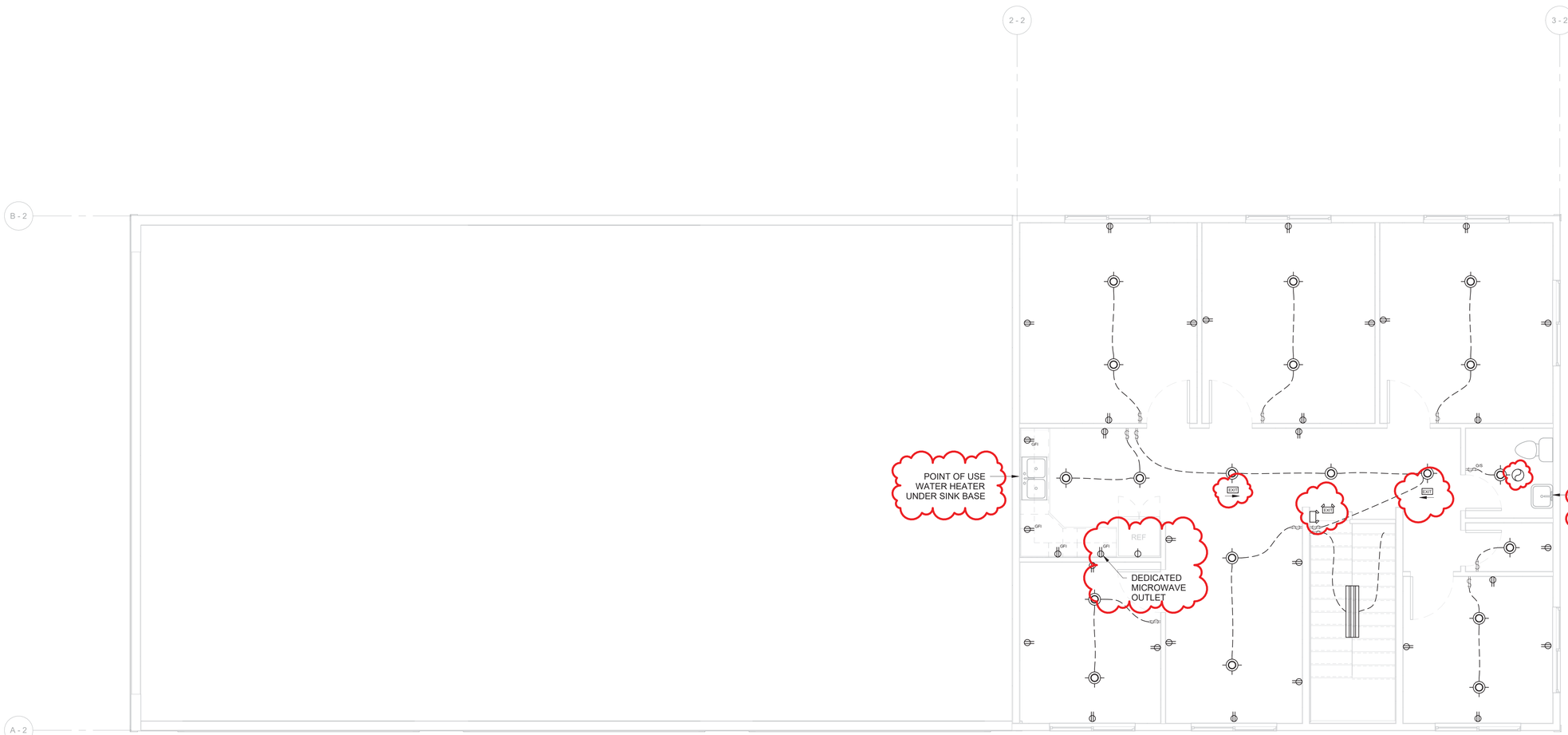
DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

PROJECT NO: 484.2022.03

DRAWING NO: E200

1/2" 1" 2"



ELECTRICAL KEY

- 4' LED FIXTURE
- LED CEILING LIGHT (MAY BE SUSPENDED)
- MIN. 50 CFM ENERGY STAR RAYED EXHAUST FAN, DUCTED TO EXTERIOR; FANS CONTROLLED BY A HUMIDSTAT
- LIGHT SWITCH
- LIGHT SWITCH - OCCUPANCY SENSOR
- CPF WALL LIGHT
- 120V DUPLEX CONVENIENCE RECEPTACLE
- 240V RANGE/DRYER RECEPTACLE
- DEDICATED HOOD RECEPTACLE
- DEDICATED REF/DW RECEPTACLE
- SMOKE DETECTOR
- EXIT SIGN w/ EMERGENCY 'BUG-EYE' LED
- EMERGENCY HI-OUTPUT 'BUG-EYE' LED
- EXIT SIGN (NO 'BUG-EYE' LIGHTS)
- SMOKE DETECTOR

EXIT SIGNAGE SHALL COMPLY WITH CBC SEC. 1013

SECOND FLOOR ELECTRICAL

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

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
LEVEL 2 - ELECTRICAL LAYOUT

DEL NORTE COUNTY, CALIFORNIA

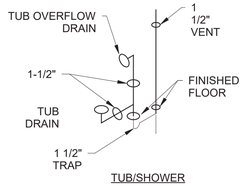
DATE OF ISSUE: FEBRUARY 2026

SCALE: ARCH D

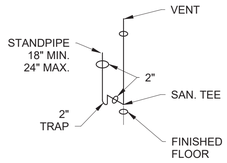
PROJECT NO: 484.2022.03

DRAWING NO: E201

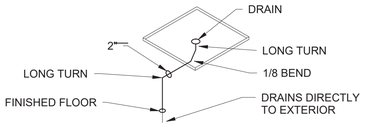
1/2" 1" 2"



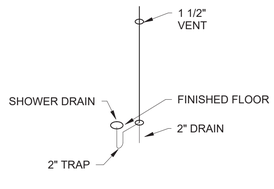
TUB/SHOWER



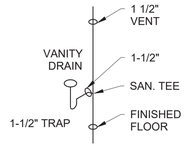
CLOTHES WASHER



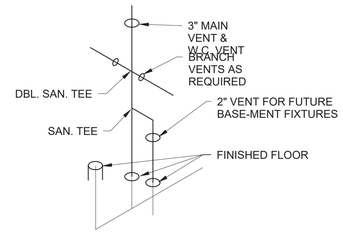
WASHER/WATER HEATER PAN USED WHEN CRAWL SPACE OR USED WHEN EITHER IS INSTALLED ON 2ND FLOOR



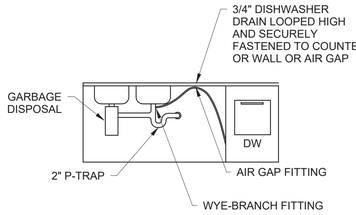
SHOWER



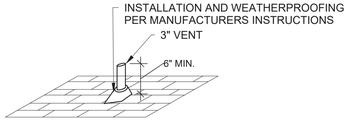
BATHROOM VANITY



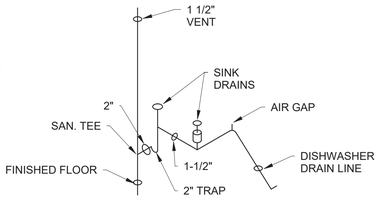
WATER CLOSET AND MAIN VENT



KITCHEN SINK/DISHWASHER/DISPOSAL



VENT THRU ROOF DETAIL



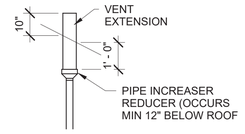
KITCHEN SINK/DISHWASHER DETAIL

FIXTURE NOTES:

THE VENT PIPE FROM A FIXTURE DRAIN, EXCEPT WATER CLOSETS AND SIMILAR SYPHONIC FIXTURES, SHALL NOT CONNECT BELOW THE TOP WEIR OF THE TRAP. THE VENT PIPE MAY BE CONNECTED AT A LOWER ELEVATION IF THE FOLLOWING ARE MET:

1. THE VERTICAL SECTION OF THE DRAIN PIPE SHALL BE AT LEAST ONE PIPE SIZE LARGER THAN THE TRAP INLET SIZE.
2. THE HORIZONTAL PIPE CONNECTED TO THE TRAP OUTLET SHALL BE AT LEAST TWO PIPE DIAMETERS LONG.
3. THE DEVELOPED LENGTH OF THE TRAP ARM SHALL NOT EXCEED THE VALUES STATED IN THE APPLICABLE PLUMBING CODES.

"A" - TRAP SIZE PER ALL APPLICABLE PLUMBING CODES
"B" - LENGTH IS DOUBLE THE TRAP SIZE
"C" - SIZE IS ONE SIZE LARGE THAN TRAP SIZE
"D" - DISTANCE FROM CROWN WEIR AND VENT CONNECTION ACCORDING TO MAX. DISTANCE OF VENT FROM FIXTURE TRAP



FROST CLOSURE

DWV NOTES

1. ALL WASTE AND VENT LINES ARE TO BE ABS OR PVC PIPE PROVIDED DWELLING DOES NOT EXCEED TWO STORIES IN HEIGHT. SUPPLY LINES ARE TO BE COPPER.
2. PITCH ON HORIZONTAL WASTE LINES SHALL BE 1/4". IF A SPECIAL CONSTRUCTION CONDITION EXISTS, LOCAL AUTHORITIES MAY GIVE APPROVAL FOR 1/8" SLOPE ON PIPE DIAMETERS OF 4" OR GREATER.
3. WASTE LINES: INSTALL WYE W/ CLEANOUT PRIOR TO EXITING WALL FOR CONNECTION TO DISPOSAL SYSTEM.
4. PVC-DWV PIPE SUPPORTS: AT BRANCHES, CHANGES IN DIRECTION AND AT THE BASE, EACH FLOOR AND MID STORY (VERTICAL) MAXIMUM EVERY 3'-0" AT THE END OF BRANCHES, AND CHANGE OF DIRECTION OR ELEVATION. 4" MINIMUM MAIN WASTE TO SEPTIC (BY BUILDER).
5. PLASTIC PIPE SHALL NOT PENETRATE FIRE RATED ASSEMBLIES INCLUDING FLOOR/CEILING. PIPING SHALL BE FIRESTOPPED WHERE REQUIRED WITH MATERIAL EQUIVALENT TO CONSTRUCTION WHICH IT PENETRATES & BE SUITABLE TO PIPE MATERIAL OR USE METAL PIPE FROM A MIN. OF ABOVE ASSEMBLY & DOWN.
6. EACH DWELLING SHALL HAVE ONE MAIN 3 INCH MIN. STACK FROM BUILDING DRAIN AND AT A MIN. OF 6" ABOVE THE ROOF LINE
7. ALL TRAP ARMS MUST BE SUPPORTED WITH 3/4" MINIMUM BEARING.
8. ALL PLASTIC PIPE MUST BE SUPPORTED AT INTERVALS IN ACCORDANCE WITH APPLICABLE PLUMBING CODES
9. HORIZONTAL TO HORIZONTAL & VERTICAL TO HORIZONTAL DRAIN CHANGES IN DIRECTION SHALL BE 45 DEGREE WYES, LONG SWEEP 90 DEGREE ELBOWS, LONG SWEEP TY'S, 6TH., 8TH. OR 16TH/ BENDS, APPROVED COMBINATIONS OF THESE OR EQUIVALENT LONG SWEEP FITTINGS. SHORT SWEEPS PERMITTED IN SINGLE BRANCH HORIZONTAL TO VERTICAL CHANGES IN DIRECTION ON 3INCH OR LARGER.
10. TRAPS SHALL BE PLACED AS CLOSE AS POSSIBLE TO FIXTURE OUTLET. MAXIMUM VERTICAL DROP FROM FIXTURE OUTLET TO TRAP WEIR IS 24"
11. INACCESSIBLE TRAPS SHALL NOT HAVE UNIONS, CLEANOUTS OR SLIPJOINTS. ACCESSIBLE TRAPS SHALL BE REMOVABLE WITH UNION IN TRAP SEAL OR HAVE CLEANOUT OPENING SAME SIZE AS TRAP.
12. ALL HORIZONTAL VENT BRANCH PIPING SHALL BE LOCATED A MINIMUM OF 6" ABOVE THE FLOOD LEVEL OF THE HIGHEST FIXTURE IN THAT BRANCH.
13. MAXIMUM DISTANCE OF FIXTURE TRAP WEIR TO VENT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE PLUMBING CODES.
14. PLASTIC PIPING SHALL BE PROTECTED WITH 1/16" (15 GAUGE) STEEL PLATE WHEN PIPE PASSES THRU WOOD MEMBERS LESS THAN 1 1/4 INCHES FROM EDGE OF MEMBER. CPC2001 313.9
15. FALL IN TRAP NOT ACCEPTABLE IN CPC
16. THE VENT PIPE OPENING FROM A SOIL OR WASTE PIPE, EXCEPT FOR WATER CLOSET AND SIMILAR FIXTURES, SHALL NOT BE BELOW THE WEIR OF THE TRAP. CPC2001 1002.4
17. FIRST FLOOR FIXTURES SHALL CONNECT INTO HORIZONTAL BUILDING DRAIN MORE THAN 10 PIPE DIAMETERS DOWNSTREAM (TAKE THE DIAMETER OF THE CONNECTION TIMES 10 AND THAT IS THE MIN. DISTANCE YOU MUST BE TO THE STACK BASE) OF STACK BASE & NOT CONNECT INTO SECOND FLOOR DRAIN STACK.
18. POTABLE WATER SYSTEM SHALL BE DISINFECTED ON SITE BY SITE BUILDER IN ACCORDANCE WITH APPLICABLE STATE PLUMBING CODES
19. WATER HEATER AND FURNACE SHALL BE BRACED TO SECURE AGAINST SEISMIC MOVEMENTS. USE PLUMBER TAPE BRACING OR OTHER APPROVED FASTENERS.
20. BACKFLOW DEVICES, VACUUM BREAKERS & AIR GAPS: FOR WATER DISTRIBUTION SYSTEMS "PROTECTION OF POTABLE WATER SUPPLY.
    A. WATER HEATER LOCATED @ OR ON LIVING SPACE LEVEL MUST HAVE A BACKFLOW DEVICE INSTALLED AND MUST HAVE A WATERTIGHT PAN OF CORRISON RESISTANT MATERIALS INSTALLED.
    B. CLOTHES WASHER (IF NOT BUILT IN TO THE APPLIANCE) MUST HAVE A BACKFLOW DEVICE INSTALLED.

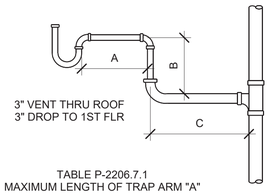
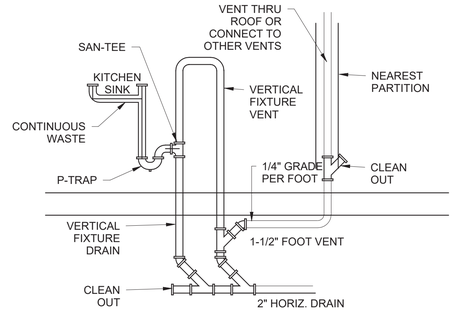


TABLE P-2206.7.1
MAXIMUM LENGTH OF TRAP ARM "A"

DIA. (INCHES)	LENGTH (FEET)
1-1/4	5
1-1/2	6
2	8
3	12
4	16

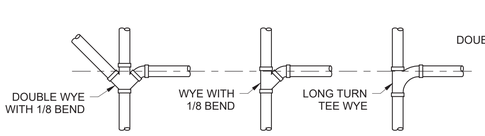
VERTICAL LEG FOR WASTE FIXTURE DRAINS: A VERTICAL LEG ("B" IN DIAGRAM) MAY BE INSTALLED IN THE TRAP ARM OF A WASTE-FIXTURE DRAIN IN LIEU OF THE USUAL TRAP ARM TO VENT CONNECTION. TYPICAL INSTALLATIONS INCLUDE ISLAND SINKS AND FIXTURES NOT ADJACENT TO A WALL. VERTICAL LEG TRAP ARM INSTALLATIONS SHALL MEET THE FOLLOWING CRITERIA:

1. MINIMUM TRAP DIAMETER SHALL MEET CODES
2. THE DIAMETER OF SECTION "A" SHALL BE EQUAL TO THE DIAMETER OF THE TRAP.
3. THE LENGTH OF SECTION "A" SHALL BE NOT LESS THAN 8".
4. THE DIAMETER OF SECTION "B" SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF SECTION "A".
5. THE LENGTH OF SECTION "B" SHALL BE NOT MORE THAN 36 INCHES
6. THE DIAMETER OF SECTION "C" SHALL BE ONE PIPE SIZE LARGER THAN THE DIAMETER OF SECTION "B".
7. THEIR IS NO RESTRICTION ON THE LENGTH OF SECTION "C".
8. BENDS SHALL BE THE DIAMETER OF THE LARGEST CONNECTED SECTION.



ISLAND VENT

KITCHEN SINK/DISHWASHER/DISPOSAL



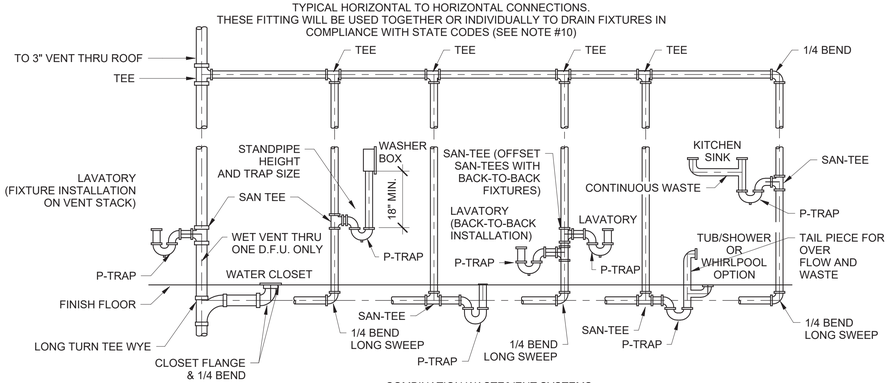
HORIZONTAL TO VERTICAL AND VERTICAL TO HORIZONTAL CONNECTIONS (SEE NOTES #10)

604.1.2 PEX [HCD 1 & HCD 2] ALL INSTALLATIONS OF PEX PIPE WHERE IT IS THE INITIAL PLUMBING PIPING INSTALLED IN NEW CONSTRUCTION SHALL BE FLUSHED TWICE OVER A PERIOD OF AT LEAST ONE WEEK. THE PIPE SYSTEM SHALL BE FIRST FLUSHED FOR AT LEAST 10 MINUTES AND THEN FILLED AND ALLOWED TO STAND FOR NO LESS THAN 1 WEEK, AFTER WHICH ALL THE BRANCHES OF THE PIPE SYSTEM MUST BE FLUSHED LONG ENOUGH TO FULLY EMPTY THE CONTAINED VOLUME. THIS PROVISION SHALL NOT APPLY TO THE INSTALLATION OF PEX PIPE WHERE IT REPLACES AN EXISTING PIPE SYSTEM OF ANY MATERIAL.

1. AT THE TIME OF FILL, EACH FIXTURE SHALL HAVE A REMOVABLE TAG APPLIED STATING:
   a. "THIS NEW PLUMBING SYSTEM WAS FIRST FILLED AND FLUSHED ON _____ (DATE) BY _____ (NAME). THE STATE OF CALIFORNIA REQUIRES THAT THE SYSTEM BE FLUSHED AFTER STANDING AT LEAST ONE WEEK AFTER THE FILL DATE SPECIFIED ABOVE. IF THIS SYSTEM IS USED EARLIER THAN ONE WEEK AFTER THE FILL DATE, THE WATER MUST BE ALLOWED TO RUN FOR AT LEAST TWO MINUTES PRIOR TO USE FOR HUMAN CONSUMPTION. THIS TAG MAY NOT BE REMOVED PRIOR TO THE COMPLETION OF THE REQUIRED SECOND FLUSHING, EXCEPT BY THE BUILDING OWNER OR OCCUPANT."
2. PRIOR TO ISSUING A BUILDING PERMIT TO INSTALL PEX PIPE, THE BUILDING OFFICIAL SHALL REQUIRE AS PART OF THE PERMITTING PROCESS THAT THE CONTRACTOR, OR THE APPROPRIATE PLUMBING SUBCONTRACTORS, PROVIDE WRITTEN CERTIFICATION THAT HE OR SHE WILL COMPLY WITH THE FLUSHING PROCEDURES SET FORTH IN THE CODE.
3. THE BUILDING OFFICIAL SHALL NOT GIVE FINAL PERMIT APPROVAL OF ANY PEX PLUMBING INSTALLATION UNLESS HE OR SHE FINDS THAT THE MATERIAL HAS BEEN INSTALLED IN COMPLIANCE WITH THE REQUIREMENTS OF THE CODE, INCLUDING THE REQUIREMENTS TO FLUSH AND TAG THE SYSTEMS.
4. ANY CONTRACTOR OR SUBCONTRACTOR FOUND TO HAVE FAILED TO COMPLY WITH THE PEX FLUSHING REQUIREMENTS SHALL BE SUBJECT TO THE PENALTIES IN HEALTH AND SAFETY CODE, DIVISION 13, PART 1.5, CHAPTER 6 (SECTION 17995, ET SEQ.).

906.7 FROST OR SNOW CLOSURE
WHERE FROST OR SNOW CLOSURE IS LIKELY TO OCCUR IN LOCATIONS HAVING MINIMUM DESIGN TEMPERATURE BELOW 0°F (-17.8°C), VENT TERMINALS SHALL BE NOT LESS THAN 2 INCHES IN DIAMETER, BUT IN NO EVENT SMALLER THAN THE REQUIRED VENT PIPE. THE CHANGE IN DIAMETER SHALL BE MADE INSIDE THE BUILDING NOT LESS THAN 1 FOOT BELOW THE ROOF IN AN INSULATED SPACE AND TERMINATE NOT LESS THAN 10 INCHES ABOVE THE ROOF, OR IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.

TYPICAL HORIZONTAL TO HORIZONTAL CONNECTIONS.
THESE FITTING WILL BE USED TOGETHER OR INDIVIDUALLY TO DRAIN FIXTURES IN COMPLIANCE WITH STATE CODES (SEE NOTE #10)



COMBINATION WASTE/VENT SYSTEMS

ANY COMBINATION MORE THAN 15'-0" LONG SHALL BE SEPARATLEY VENTED.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DESCRIPTION	DATE	DWN BY	DES BY	CHK BY	APP BY
1	BID ADDENDUM 1	2/18/2026	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL PLUMBING NOTES & DETAILS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE: FEBRUARY 2026
SCALE: ARCH D
PROJECT NO: 484.2022.03
DRAWING NO: P100

1/2" 1" 2"

CODES AND STANDARDS
ALL WORK SHALL BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL BUILDING SAFETY CODES, ORDINANCES, AND REGULATIONS. ADDITIONALLY, ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS:

- NATIONAL FIRE PROTECTION ASSOCIATION.
- CALIFORNIA MECHANICAL CODE.
- CALIFORNIA PLUMBING CODE.
- UNDERWRITERS LABORATORIES.
- TITLES 8, 17, 19, 21, 24 OF THE CALIFORNIA CODE OF REGULATIONS.
- CALIFORNIA ELECTRIC CODE.
- SMACNA STANDARDS.
- ASHRAE STANDARDS 55 AND 62.1.

WHEN THE CONTRACT DOCUMENTS CALL FOR MATERIALS OR CONSTRUCTION OF A HIGHER TANDARD THAN IS REQUIRED BY THE ABOVE, THE CONTRACT DOCUMENT REQUIREMENTS HALL TAKE PRECEDENCE OVER THE REQUIREMENTS OF THE APPLICABLE LAWS, RDINANCES, RULES, OR REGULATIONS. NOTHING IN THE CONTRACT DOCUMENTS HALL BE NTERPRETED AS PERMITTING WORK IN VIOLATION OF SAID LAWS, RULES, AND/OR EGULATIONS.

THE CONTRACTOR FOR THIS WORK SHALL FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIALS AND/OR LABOR AS MAY BE REQUIRED FOR COMPLIANCE WITH THESE LAWS, RULES, AND/OR REGULATIONS THOUGH SUCH MATERIALS AND/OR LABOR ARE NOT SPECIALLY SET FORTH IN THE CONTRACT DOCUMENTS.

LICENSING REQUIREMENTS

ALL WORK OF DIVISION 22 AND 23 SHALL BE PERFORMED BY AN APPROPRIATELY LICENSED CONTRACTOR. THE LICENSES SHALL BE CURRENT, VALID THROUGH THE TERM OF THE CONTRACT AND IN THE NAME OF THE CONTRACTOR.

ALL HVAC WORK, WHICH INCLUDES WARM AIR HEATING SYSTEMS AND WATER HEATING PUMPS, VENTILATING SYSTEMS, AIR CONDITIONING SYSTEMS, AND DUCTWORK, REGISTERS, FLUES, HUMIDITY, AND THERMOSTATIC CONTROLS IN CONNECTION WITH THESE SYSTEMS, SHALL BE PERFORMED BY A C-20 – WARM-AIR HEATING, VENTILATING AND AIR-CONDITIONING CONTRACTOR.

ALL HYDRONIC PIPING SYSTEMS SHALL BE PERFORMED BY A C-4 – BOILER, HOT WATER HEATING AND STEAM FITTING CONTRACTOR.

ALL HYDRONIC PIPING INSULATION SHALL BE PERFORMED BY A C-2 – INSULATION AND ACOUSTICAL CONTRACTOR.

SUBMITTALS

SUBMITTAL LISTS AND DRAWINGS SHALL INCLUDE IDENTIFYING MARKS ASSIGNED BY THE DRAWINGS AND SPECIFICATIONS.

REVIEW OF DRAWINGS AND OTHER MATERIAL SUBMITTED SHALL NOT BE CONSTRUED AS COMPLETE CHECK OR CONSTITUTE A WAIVER OF THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, BUT WILL INDICATE THAT THE MATERIAL SUBMITTED IS ACCEPTABLE IN QUALITY AND UTILITY. THIS REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO FIT THE PROPOSED MATERIALS TO THE SPACES PROVIDED, AND TO EFFECT NECESSARY REARRANGEMENTS OR CONSTRUCTION OF OTHER WORK.

ALL FIXTURES, MATERIALS, AND EQUIPMENT EQUAL IN QUALITY AND UTILITY TO THESE HEREIN MENTIONED WILL BE ACCEPTED. WHEN SPECIFIC NAMES ARE USED IN DESCRIBING FIXTURES, MATERIALS, AND EQUIPMENT THEY ARE MENTIONED AS STANDARDS ONLY, BUT THIS IMPLIES NO RIGHT ON THE PART OF THE CONTRACTOR TO USE OTHER FIXTURES, MATERIAL, AND EQUIPMENT OR METHODS, UNLESS APPROVED AS EQUAL IN QUALITY AND UTILITY BY THE ARCHITECT.

BEFORE ANY FIXTURES, MATERIALS, OR EQUIPMENT ARE PURCHASED, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, A COMPLETE LIST OF MATERIALS, FIXTURES, AND EQUIPMENT, GIVING THE MANUFACTURER'S NAMES, CATALOG NUMBER, CAPACITY, SIZE, POWER REQUIREMENTS, ETC.

THE CONTRACTOR SHALL SUBMIT FOR THE APPROVAL OF THE ENGINEER, SHOP DRAWINGS OF PROPOSED MATERIAL AND EQUIPMENT THAT DIFFER FROM THE SPECIFIED MATERIALS AND EQUIPMENT, AND OF ANY SPECIFIED MATERIALS AND EQUIPMENT WITH SPECIAL CONDITIONS AND/OR ARRANGEMENTS. THESE DRAWINGS SHALL SHOW NECESSARY MODIFICATIONS OF OWNER, PLUMBING, ELECTRICAL, AND MECHANICAL WORK REQUIRED BY THE PROPOSED MATERIALS AND EQUIPMENT.

AS-BUILT DRAWINGS
A COMPLETE SET OF CONTRACT DRAWINGS SHALL BE MAINTAINED AT THE WORK SITE, AND ALL CHANGES IN THE WORK SHALL BE RECORDED ON THIS SET, ON A DAILY BASIS. THE FINAL AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.

DESIGN DRAWINGS
THE DRAWINGS INDICATE DIAGRAMMATICALLY THE GENERAL LAYOUT OF THE MECHANICAL SYSTEMS AND OTHER RELATED WORK. FIELD VERIFICATION OF SCALED DIMENSIONS TAKEN FROM THE DRAWINGS IS REQUIRED.

THE CONTRACTOR SHALL REVIEW AND COMPARE THE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS AND ALL OWNER SUPPLIED EQUIPMENT DRAWINGS, AND ADJUST THEIR WORK TO BE IN CONFORMITY WITH THE CONDITIONS INDICATED THEREON. DISCREPANCIES BETWEEN DRAWINGS, BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, SHALL PROMPTLY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR A DETERMINATION OF THE MODIFICATIONS TO BE EFFECTED. IN THE EVENT THAT A MAJOR MODIFICATION IS REQUIRED, A CHANGE ORDER WILL BE PREPARED.

VERIFICATION OF EXISTING CONDITIONS AND DEMOLITION

BEFORE INSTALLATION OF ANY NEW WORK, VERIFY THE LOCATION, SIZE, AND OTHER CONDITIONS AT ALL POINTS OF CONNECTION TO SERVICES OR OTHER EXISTING PIPING, AND AT ALL LOCATIONS WHERE NEW WORK WILL CROSS OR PASS NEAR EXISTING PIPING, ELECTRICAL, OR OTHER FACILITIES.

REMOVE DUCTWORK, PIPING, CONTROLS, FIXTURES, AND EQUIPMENT THAT IS NOT TO REMAIN IN SERVICE AS SHOWN ON THE DRAWINGS OR AS REQUIRED. THIS INCLUDED THE REMOVAL OF ASSOCIATED APPURTENANCES AND SUPPORTS.

PATCH, CAP, OR REPAIR EXISTING WORKS AFFECTED BY THIS DEMOLITION IN CONCEALED SPACES WITHIN SIX (6) INCHES OF A LIVE MAIN OR BRANCH.

DELIVER REMOVED MATERIAL TO THE OWNER AS DIRECTED BY THE ARCHITECT. DISPOSE OF ALL OTHER REMOVED MATERIAL OFFSITE.

INFORMATION SHOWN RELATIVE TO EXISTING SERVICES IS BASED UPON AVAILABLE RECORDS AND DATA DURING PREPARATION OF THE DRAWINGS, BUT SHALL BE VERIFIED. MAKE REASONABLE DEVIATIONS FOUND NECESSARY TO CONFORM TO ACTUAL LOCATIONS AND CONDITIONS, WITHOUT EXTRA CHARGE.

COOPERATION WITH OTHER TRADES

ANY WORK DONE WITHOUT REGARD FOR OTHER TRADES SHALL BE MOVED, REPLACED, OR REDONE AS REQUIRED, WITHOUT EXTRA CHARGES TO OWNER.

COOPERATE FULLY WITH OTHER TRADES DOING WORK ON THE PROJECT AS MAY BE NECESSARY FOR THE PROPER COMPLETION OF THE PROJECT. REFER TO THE STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DETAILS OF THE BUILDING STRUCTURE AND EQUIPMENT INSTALLATION THAT WILL TEND TO OVERLAP, CONFLICT WITH OR REQUIRE COORDINATION WITH THE WORK OF THIS SECTION, AND SCHEDULE THIS WORK ACCORDINGLY.

DIVISION OF WORK BETWEEN DIVISIONS 23 AND 26

CLOSE COORDINATION BETWEEN THE ELECTRICAL AND MECHANICAL TRADES IS A PART OF THE WORK THAT IS REQUIRED BY THIS CONTRACT. NO ALLOWANCE WILL BE MADE FOR OMISSIONS BASED ON INCORRECTLY ASSUMING ANOTHER TRADE WILL BE PERFORMING YOUR WORK. CONFIRM YOUR SCOPE OF WORK WITH THE GENERAL CONTRACTOR.

THE DIVISION OF RESPONSIBILITIES BETWEEN TRADES SUPPLYING EQUIPMENT IN OTHER DIVISIONS MAY BE DIFFERENT. FOR INSTANCE, DIVISION 26 CONTRACTOR MAY BE REQUIRED TO SUPPLY DISCONNECT SWITCHES AND STARTERS FOR NON-HVAC MECHANICAL EQUIPMENT SUPPLIED UNDER OTHER DIVISIONS.

DIVISION 23 RESPONSIBILITIES

ASSUME RESPONSIBILITY FOR THE PROPER FUNCTIONING OF THE HVAC SYSTEMS IN THEIR ENTIRETY.

FURNISH AND INSTALL ALL CONDUCTORS AND CONDUIT REQUIRED FOR CONTROL OF HVAC EQUIPMENT.

MAKE ALL TERMINATIONS WITH THE EXCEPTION OF POWER CONDUCTORS.

FURNISH AND INSTALL ALL CONTROL PANELS AND DEVICES TO PROVIDE A COMPLETE AND FUNCTIONAL CONTROLS SYSTEM, INCLUDING ALL CONTROLS TRANSFORMERS.

FURNISH AND INSTALL MOTOR STARTERS FOR ALL EQUIPMENT SPECIFIED IN DIVISION 23.

INSTALL DUCT SMOKE DETECTORS FURNISHED BY FIRE ALARM CONTRACTOR IN BUILDINGS WITH FIRE ALARM SYSTEMS.

FURNISH AND INSTALL DUCT SMOKE DETECTORS IN BUILDINGS WITHOUT FIRE ALARM SYSTEMS.

FURNISH AND INSTALL ALL CONTROL CONDUCTORS AND CONDUIT CONNECTING DUCT SMOKE DETECTORS TO SMOKE DAMPERS AND FAN START CONTROLS.

ALL ELECTRICAL WORK PERFORMED UNDER DIVISION 23 SHALL CONFORM TO THE REQUIREMENTS OF DIVISION 26.

DIVISION 26 RESPONSIBILITIES

FURNISH AND INSTALL ALL RACEWAYS, CONDUIT, DISCONNECT SWITCHES, AND CONDUCTORS NECESSARY FOR ELECTRICAL POWER SUPPLY.

MAKE ALL POWER SUPPLY TERMINATIONS TO MOTORS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS, AND OTHER MECHANICAL DEVICES.

FIRE ALARM CONTRACTOR TO FURNISH DUCT SMOKE DETECTORS IN BUILDINGS WITH FIRE ALARM SYSTEMS.

PROVIDE POWER TO ALL DUCT SMOKE DETECTORS AND SMOKE DAMPERS.

COORDINATE ALL WORK WITH MECHANICAL CONTRACTORS.

OPERATING AND MAINTENANCE INSTRUCTIONS

FURNISH THREE SETS OF TYPEWRITTEN INSTRUCTIONS COVERING MAINTENANCE, ADJUSTMENT, AND OPERATION OF EACH PIECE OF APPARATUS, BOUND IN A HARD COVER LOOSE-LEAF BINDER. NEATLY OBSCURE OR CROSS OUT INAPPLICABLE DATA FROM MANUFACTURER'S LITERATURE. SUBMIT DATA TO THE ARCHITECT.

OPERATING INSTRUCTIONS SHALL SHOW SEQUENCE OF OPERATIONS, LUBRICATION, CARE, AND MAINTENANCE REQUIREMENTS OF ALL EQUIPMENT. FINAL ACCEPTANCE OF THE WORK WILL NOT BE MADE UNTIL A SATISFACTORY SUBMISSION OF THIS MATERIAL IS RECEIVED AND APPROVED BY THE ARCHITECT.

THE OWNER'S AUTHORIZED REPRESENTATIVE SHALL BE INSTRUCTED IN THE OPERATION AND SERVICING OF ALL HVAC & PLUMBING SYSTEMS.

ACCURACY OF DATA
THE DATA GIVEN HEREIN AND ON THE DRAWINGS ARE AS EXACT AS COULD BE REASONABLY SECURED, BUT ABSOLUTE ACCURACY IS NOT GUARANTEED. EXACT LOCATIONS, DISTANCES, ELEVATIONS, ETC. WILL BE GOVERNED BY SHOP DRAWINGS, THE BUILDING ITSELF, AND ACTUAL FIELD CONDITIONS.

DAMAGE BY LEAKS
CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO WORK OF OTHER CONTRACTORS THAT IS CAUSED BY LEAKS IN ANY TEMPORARY OR PERMANENT PIPING SYSTEMS DUE TO PIPE RUPTURE, DISCONNECTED PIPES OR FITTINGS, OR BY OVERFLOW OF EQUIPMENT.

SEISMIC FORCE RESISTANCE
MECHANICAL, PLUMBING, FIRE PROTECTION SYSTEMS

ALL MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS SHALL ADHERE TO THE SMACNA "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS," THIRD EDITION DATED MARCH 2008.

DELIVERY, STORAGE, AND HANDLING
CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, PROTECTION, AND PLACING OF ALL EQUIPMENT AND MATERIALS.

CONTRACTOR SHALL PROTECT THE WORK AND MATERIALS FROM DAMAGE DURING CONSTRUCTION. EQUIPMENT STORED AT THE JOB SITE SHALL BE PROTECTED FROM DUST, WATER, OR OTHER DAMAGE, AND BE COVERED IF EQUIPMENT IS EXPOSED TO WEATHER. PROTECT INTERIORS OF NEW EQUIPMENT AND PIPING SYSTEMS AGAINST ENTRY OF FOREIGN MATTER. CLEAN BOTH INSIDE AND OUTSIDE BEFORE PAINTING OR PLACING EQUIPMENT IN OPERATION.

ANY ITEMS DAMAGED SHALL BE REPAIRED OR REPLACED, AT NO ADDITIONAL COST TO THE OWNER.

CLEANLINESS OF PIPING AND EQUIPMENT SYSTEMS

EXERCISE CARE IN STORAGE AND HANDLING OF EQUIPMENT AND PIPING MATERIAL TO BE INCORPORATED IN THE WORK. REMOVE DEBRIS ARISING FROM CUTTING, THREADING, AND WELDING OF PIPING. 2. PIPING SYSTEMS SHALL BE FLUSHED, BLOWN, OR PIGGED AS NECESSARY TO DELIVER CLEAN SYSTEMS.

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL COSTS, DAMAGE, AND DELAY ARISING FROM FAILURE TO PROVIDE CLEAN SYSTEMS

WARRANTIES

EQUIPMENT WARRANTIES SHALL BE PROVIDED FOR ALL EQUIPMENT, WITH ALL NECESSARY INFORMATION FILLED IN, EXCEPT PURCHASE DATE, IN FAVOR OF THE OWNER.

THE CONTRACTOR SHALL GUARANTEE THAT ALL WORK UNDER THIS SECTION IS FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING THE NOTICE OF COMPLETION. REPLACEMENT OF DEFECTIVE WORK AND DAMAGE CAUSED TO WORK OF OTHER TRADES AS A RESULT OF SUCH DEFECTIVE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE MADE AT NO COST TO THE OWNER.

WARRANTIES

EQUIPMENT WARRANTIES SHALL BE PROVIDED FOR ALL EQUIPMENT, WITH ALL NECESSARY INFORMATION FILLED IN, EXCEPT PURCHASE DATE, IN FAVOR OF THE OWNER.

THE CONTRACTOR SHALL GUARANTEE THAT ALL WORK UNDER THIS SECTION IS FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FILING THE NOTICE OF COMPLETION. REPLACEMENT OF DEFECTIVE WORK AND DAMAGE CAUSED TO WORK OF OTHER TRADES AS A RESULT OF SUCH DEFECTIVE WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE MADE AT NO COST TO THE OWNER.

ALTERNATIVE MATERIALS AND METHODS

THESE PLANS AND SPECIFICATIONS DESCRIBE THE GENERAL SCOPE OF THE MECHANICAL SYSTEMS. THESE PLANS AND SPECIFICATIONS DO NOT PRECLUDE THE SUBMITTAL OF ALTERNATIVE METHODS OR MATERIALS. MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE STATED TO IDENTIFY THE TYPE AND QUALITY OF THE EQUIPMENT OR MATERIALS REQUIRED FOR THE PROJECT.

THE CONTRACTOR MAY SUBMIT SHOP DRAWINGS AND/OR TECHNICAL INFORMATION ON ALTERNATIVE EQUIPMENT, MATERIALS OR INSTALLATION DETAILS TO ACCOMPLISH THE INTENT OF THE PLANS AND SPECIFICATIONS. APPROVAL OF THE ALTERNATIVE EQUIPMENT, MATERIALS OR INSTALLATION DETAILS SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR COMPLYING WITH THE INTENT OF THE PLANS AND SPECIFICATIONS. SUBMIT THE MANUFACTURERS' TECHNICAL INFORMATION, SHOP DRAWINGS, AND/OR WRITTEN DESCRIPTION OF ALTERNATIVE METHODS FOR EACH ITEM DESCRIBED BY MANUFACTURER'S NAME AND CATALOG NUMBER AND FOR EACH COMPONENT, EQUIPMENT, MATERIAL, OR INSTALLATION DETAIL REQUIRED.

SITE EXAMINATION
THOROUGHLY EXAMINE THE SITE AND VERIFY THE ACTUAL WORK CONDITIONS. NO EXTRA COMPENSATION WILL BE ALLOWED FOR EXPENSES DUE TO FAILURE TO DISCOVER SITE CONDITIONS WHICH AFFECT THE WORK.

ALL MECHANCIAL SYSTEMS ARE TO BE DESIGN BUILD BY A QUALIFIED CONTRACTOR. SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL MECHANICAL SPECIFICATIONS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
M100

1/2" 1" 2"

PRODUCTS

ALL MATERIALS, APPLIANCES, AND EQUIPMENT SHALL BE NEW AND BEST OF THEIR RESPECTIVE KINDS, FREE FROM DEFECTS, AND OF THE MAKE, BRAND, OR QUALITY SPECIFIED OR AS ACCEPTED BY THE ARCHITECT.

WHEN TWO OR MORE UNITS OF MATERIALS OR EQUIPMENT OF THE SAME TYPE OR CLASS ARE REQUIRED, THESE UNITS SHALL BE PRODUCTS OF ONE MANUFACTURER.

APPLY AND INSTALL ALL ITEMS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER CONFLICTS BETWEEN MANUFACTURER'S INSTRUCTIONS AND THE CONTRACT DRAWINGS AND SPECIFICATIONS TO THE ARCHITECT FOR RESOLUTION.

THERMOSTATS
ELECTRIC, SOLID-STATE, MICROCOMPUTER-BASED ROOM THERMOSTAT WITH THE FOLLOWING FEATURES:

AUTOMATIC SWITCHING FROM HEATING TO COOLING.

PREFERENTIAL RATE CONTROL TO MINIMIZE OVERSHOOT AND DEVIATION FROM SET POINT.

SET UP FOR FOUR SEPARATE TEMPERATURES PER DAY.

INSTANT OVERRIDE OF SET POINT FOR CONTINUOUS OR TIMED PERIOD FROM 1 HOUR TO 31 DAYS.

SHORT-CYCLE PROTECTION.

PROGRAMMING BASED ON EVERY DAY OF WEEK.

SELECTION FEATURES INCLUDE DEGREE F OR DEGREE C DISPLAY, 12- OR 24-HOUR CLOCK, KEYBOARD DISABLE, REMOTE SENSOR, AND FAN ON-AUTO.

BATTERY REPLACEMENT WITHOUT PROGRAM LOSS.

THERMOSTAT DISPLAY FEATURES INCLUDE THE FOLLOWING: TIME OF DAY.

- ACTUAL ROOM TEMPERATURE.
- PROGRAMMED TEMPERATURE.
- PROGRAMMED TIME.
- DURATION OF TIMED OVERRIDE.
- DAY OF WEEK.
- SYSTEM MODE INDICATIONS INCLUDE "HEATING," "OFF," "FAN AUTO," AND "FAN ON."

THERMOSTAT COVER CONSTRUCTION: HEAVY-DUTY, LOCKING THERMOSTAT GUARD, OF SOLID METAL TAMPERPROOF CONSTRUCTION.

ACCURACY: PLUS OR MINUS 0.5 DEG. F AT CALIBRATION POINT.

WIRE: TWISTED, SHIELDED-PAIR CABLE.

CONTRACTOR SHALL FIELD VERIFY DIMENSIONS PRIOR TO ORDERING FAN AND CURB ADAPTOR.

SHEET METAL DUCTWORK - RECTANGULAR

DUCTS AND PLENUMS SHALL BE FABRICATED AND INSTALLED IN CONFORMANCE WITH THE LATEST EDITIONS OF: NFPA PAMPHLET NO. 90A; CALIFORNIA BUILDING CODE; CALIFORNIA MECHANICAL CODE AND THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS (METAL AND FLEXIBLE). DUCTS AND PLENUMS SHALL BE CONSTRUCTED OF HOT DIPPED GALVANIZED MILD STEEL AND SHALL HAVE AIRTIGHT CLASS "B" SEALS AT ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS. TABLES AND FIGURES HEREINAFTER REFERENCED ARE FROM THE 2005 EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS (METAL AND FLEXIBLE).

RECTANGULAR DUCT CONSTRUCTION SHALL CONFORM TO TABLE 2-3. ALL TRANSVERSE JOINTS SHALL BE FLANGED PER TABLE 2-32, WITH CORNER CLOSURES OR "DUCT MATE" FLANGED CONNECTIONS WITH CORNER CLOSURES PER FIGURE 2-17. ELBOWS SHALL BE STANDARD RADIUS (TYPE RE 1) OR SQUARE THROAT WITH VANES (TYPE RE 2) PER FIGURE 4-2, WITH DOUBLE THICKNESS TURNING VANES PER FIGURES 4-3 AND 4-4. OFFSETS AND TRANSITIONS SHALL BE PER FIGURE 4-7. SUPPLY, RETURN, AND EXHAUST BRANCH CONNECTIONS SHALL BE PER FIGURE 4-5 OR 4-6. SPLITTERS SHALL NOT BE USED.

LINED DUCTS SHALL BE FABRICATED SUCH THAT THE NET INSIDE DIMENSIONS EQUALS THE DUCT SIZES SHOWN ON THE DRAWINGS.

SHEET METAL DUCTWORK – ROUND DUCTS SHALL BE SPIRAL, UNITED MCGILL OR EQUAL. ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS SHALL HAVE CLASS "B" SEALS. ALL BRANCHES IN ROUND DUCT SYSTEMS SHALL BE MADE WITH FACTORY FABRICATED REDUCING WYE BRANCHES. DUCT TURNS SHALL BE MADE WITH STANDARD, FACTORY FABRICATED, THREE-PIECE ELBOWS.

FLEXIBLE DUCTWORK – FLEXIBLE DUCTS SHALL BE FLEXMASTER "8M" OR APPROVED EQUAL. FLEXIBLE DUCTS SHALL BE USED ONLY WHERE SHOWN ON THE DRAWINGS, AND MAXIMUM LENGTH OF ANY GIVEN FLEXIBLE DUCT SHALL NOT EXCEED 5 FT. GALVANIZED SHEET METAL ELBOWS SHALL BE USED FOR TURNS GREATER THE 45° ON FLEXIBLE DUCTS 10" AND LARGER. CONNECTIONS TO RECTANGULAR DUCTS SHALL BE MADE WITH "SPIN-IN" FITTINGS WITH AIR SCOOPS. THE INSTALLATION OF FLEXIBLE DUCTS SHALL CONFORM TO FIGURE 3-10, WITH THE EXCEPTIONS NOTED HEREIN.

SUPPORTS – SUPPORTS FOR HORIZONTAL DUCTS AND PLENUMS SHALL BE FABRICATED PER FIGURES 5-5 AND 5-6 AND TABLES 5-1, 5-2, AND 5-3. THE MAXIMUM DISTANCE BETWEEN HANGERS SHALL BE EIGHT FEET FOR RECTANGULAR DUCTS AND TWELVE FEET FOR ROUND DUCTS. ATTACHMENTS TO THE STRUCTURE SHALL BE MADE WITH ADEQUATELY SIZED LAG BOLTS FOR STRAPHANGERS AND ADEQUATELY SIZED MACHINE BOLTS AND SIDE BEAM BRACKETS FOR ROD HANGERS. SUPPORTS FOR VERTICAL DUCTS SHALL BE BAND IRON STRAP OR ANGLE BRACKET TYPE PER FIGURE 5-8 AND 5-9.

DUCT ACCESS DOORS: INCLUDING THOSE FOR REMOVING FILTERS, DUCT ACCESS DOORS SHALL BE AS DETAILED IN FIGURE 7-2 WITH SASH LOCKS, PIANO HINGES, AND GASKETS. ACCESS DOORS SHALL HAVE AN UNOBSTRUCTED FULL SWING.

DUCTWORK ACCESSORIES

FLEXIBLE DUCT CONNECTIONS
DURO-DYNE "METAL-FAB" WITH DUROION, VENTFABRICS "VENTGLASS," OR APPROVED EQUAL.

INSTALL AT EACH POINT WHERE A BLOWER UNIT IS CONNECTED TO A DUCT. A MINIMUM CLEARANCE OF THREE INCHES BETWEEN THE DUCT AND THE SOURCE OF VIBRATION SHALL BE MAINTAINED. INSTALL PER FIGURE 2-17.

SCREENS – INSTALL REMOVABLE BIRD SCREENS AT ALL OUTSIDE INTAKES AND EXHAUST AIR DISCHARGES. SCREENS SHALL BE FABRICATED FROM ½" X 14 GAUGE MESH SECURED IN FULL FRAMES. SCREENS AND FRAMES SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS THE DUCT, HOOD, OR EQUIPMENT TO WHICH ATTACHED.

JOINTS – TAPE ALL JOINTS AIRTIGHT USING HARDCAST TYPE "DT" PRESSURELESS TAPE AND "HD-20" ADHESIVE, PER MANUFACTURER'S DIRECTIONS.

DAMPERS – PROVIDE BUTTERFLY OR MULTI-BLADE DAMPERS WHERE INDICATED ON THE DRAWINGS OR AS REQUIRED FOR BALANCING AIR QUANTITIES TO VALUES SHOWN WITHOUT GENERATING EXCESSIVE NOISE. PROVIDE DURO-DYNE "KS-385," OR APPROVED EQUAL, LOCKING QUADRANTS ON EACH MANUAL DAMPER. LOCATE DAMPERS IN FURRED CEILINGS NEAR ACCESS PANELS WHERE POSSIBLE.

BUTTERFLY DAMPERS SHALL BE CONSTRUCTED AS PER FIGURE 7-4, FIGURE A, B, AND C IN THE DUCT MANUAL.

MULTI-BLADE DAMPERS SHALL CONFORM TO FIGURE 7-5.
BACK-DRAFT DAMPERS SHALL BE AIR BALANCE "AIR DYNAMIC" MODEL DY-1002-V, OR EQUAL.

INSULATION - EXTERIOR OF DUCTWORK:

UNLESS SPECIFIED TO BE LINED, ALL SHEET METAL SUPPLY AND RETURN DUCTS IN INDIRECTLY CONDITIONED SPACES SHALL BE INSULATED ON THE OUTSIDE WITH JOHNS MANVILLE "MICROLITE XG" FLEXIBLE FIBERGLASS BLANKET-TYPE DUCT WRAP, WITH FACTORY APPLIED FSK ALUMINUM FOIL FACING, WITH A COMPOSITE UL RATING OF 25/50, MINIMUM R-6 INSTALLED.

UNLESS SPECIFIED TO BE LINED, ALL SHEET METAL SUPPLY AND RETURN DUCTS IN UNCONDITIONED SPACES SHALL BE INSULATED ON THE OUTSIDE WITH JOHNS MANVILLE "MICROLITE XG" FLEXIBLE FIBERGLASS BLANKET-TYPE DUCT WRAP, WITH FACTORY APPLIED FSK ALUMINUM FOIL FACING, WITH A COMPOSITE UL RATING OF 25/50, MINIMUM R-8 NSTALLED.

ALL OUTSIDE AIR DUCTWORK BETWEEN BUILDING OUTSIDE AIR INLET AND HVAC UNIT OR HEAT/ENERGY RECOVERY VENTILATOR SHALL BE INSULATED ON THE OUTSIDE WITH JOHNS ANVILLE "MICROLITE XG" FLEXIBLE FIBERGLASS BLANKET-TYPE DUCT WRAP, WITH FACTORY APPLIED FSK ALUMINUM FOIL FACING, WITH A COMPOSITE UL RATING OF 25/50, MINIMUM R-4 INSTALLED.

EXHAUST DUCTWORK WITHIN 10 FEET OF TERMINATION POINT AND BETWEEN ANY HEAT/ENERGY RECOVERY VENTILATOR AND EXHAUST TERMINATION SHALL BE INSULATED ON THE OUTSIDE WITH JOHNS MANVILLE "MICROLITE XG" FLEXIBLE FIBERGLASS BLANKETTYPE DUCT WRAP, WITH FACTORY APPLIED FSK ALUMINUM FOIL FACING, WITH A COMPOSITE UL RATING OF 25/50, MINIMUM R-4 INSTALLED.

INSULATION - INTERIOR OF DUCTWORK:

DUCT LINING SHALL BE INSTALLED IN SUPPLY AND RETURN DUCTS AND PLENUMS WHERE NOTED ON THE DRAWINGS. LINING SHALL BE JOHNS MANVILLE "PERMACOTELINACOUSTIC R" RIGID FIBERGLASS BOARD FOR PLENUMS AND "PERMACOTELINACOUSTIC HP" FIBERGLASS DUCT LINER FOR DUCTS, 1" THICK, UNLESS OTHERWISE NOTED, WITH FIRE RESISTANT COATING. DUCT LINER SHALL MEET ASTM C 1071, WITH AIR SURFACE COATED WITH ACRYLIC COATING TREATED WITH EPA REGISTERED ANTI-MICROBIAL AGENT PROVE TO RESIST MICROBIAL GROWTH AS DETERMINED BY ASTM G 21 AND G 22. INSULATION WITH ORN OR BROKEN COATING SHALL BE REMOVED AND REPLACED. LOOSE CORNERS, EDGES, AND BUTT JOINTS WILL NOT BE ACCEPTED.

ALL EXPOSED EXTERIOR SUPPLY AND RETURN DUCTWORK SHALL HAVE MINIMUM 2" INTERIOR INSULATION, AS SPECIFIED IN THIS SECTION.

MAXIMUM VELOCITY: 5,000 FT/MIN.

FASTENERS: DUCT LINER GALVANIZED STEEL PINS, WELDED OR MECHANICALLY FASTENED.

DEVELOPED SMOKE DENSITY SHALL NOT EXCEED 50. FLAME SPREAD RATING SHALL NOT EXCEED 25.

REFRIGERATION PIPING AND APPURTENANCES

REFRIGERANT PIPING SHALL BE TYPE "ACR" DE-OXIDIZED HARD TEMPER COPPER TUBE, ASTM B280.

MECHANICAL JOINTS ON REFRIGERANT PIPING SYSTEMS ARE PROHIBITED. ALL REFRIGERANT PIPING JOINTS SHALL BE BRAZED. USE LEAD-FREE, SILVER SOLDER, MINIMUM 15% SILVER CONTENT.

PIPE FITTINGS SHALL BE WROUGHT-COPPER WITH SOLDERED JOINTS, ASME B16.22.

FLEXIBLE CONNECTIONS SHALL BE BRONZE, DOUBLE BRAIDED, SWEAT SOLDER ENDS.

MOISTURE/LIQUID INDICATORS (SIGHT GLASSES) SHALL BE COLOR CHANGE MOISTURE INDICATION TYPE, REPLACEABLE ELEMENT, FILTER SCREEN AND PAD, SWEAT SOLDER ENDS; SPORLAN "SEE-ALL", HENRY, OR EQUAL.

CHARGING AND PURGE VALVES SHALL BE FORGED BRASS, DIAPHRAGM PACKLESS, GLOBE TYPE, ANGLE OR STRAIGHT THROUGH, ONE END SOLDER, ONE END FLARE; HENRY 623 AND 643 SERIES, SPORLAN OR EQUAL.

SOLENOID VALVES SHALL BE FORGED BRASS, EXTENDED END CONNECTIONS, SOLDER ENDS, MOLDED COIL; SPORLAN "E" SERIES OR EQUAL. COMPLY WITH ARI 760 & UL 429.

FILTER DRIERS SHALL BE REPLACEABLE MEDIA, ANGLE TYPE; HENRY "DRI-COR" OR EQUAL; ARI 730.

THERMSOTATIC EXPANSION VALVES SHALL HAVE FORGED BRASS BODY, STAINLESS STEEL SEATS AND PINS, ODF SOLDER CONNECTIONS, EXTERNAL EQUALIZER,; ARI 750.

OUTDOOR CONDENSING UNITS SHALL HAVE A FLEXIBLE PIPING SECTION AT THE OUTDOOR UNIT.

REFRIGERANT PIPING BETWEEN THE OUTDOOR UNIT AND THE INDIVIDUAL FAN COIL (SPLIT SYSTEM) OR BRANCH SELECTOR BOX (VRF SYSTEM) SHALL BE TYPE "ACR" DE-OXIDIZED HARD TEMPER COPPER TUBE, ASTM B280.

REFRIGERANT PIPING (EXPOSED) BETWEEN THE INDOOR BRANCH SELECTOR BOXES AND THE INDIVIDUAL FAN COIL IN EXPOSED AREAS SHALL BE TYPE "ACR" DE-OXIDIZED HARD TEMPER COPPER TUBE, ASTM B280.

REFRIGERANT PIPING SHALL BE INSULATED WITH 1" WALL THICKNESS "ARMACELL AP ARMAFLEX" BLACK FLEXIBLE CLOSED-CELL ELASTOMERIC THERMAL INSULATION IN TUBULAR FORM WITH SELF-SEAL SYSTEM REINFORCED WITH LAP SEAL TAPE.

REFRIGERANT PIPING (CONCEALED) BETWEEN THE INDOOR BRANCH SELECTOR BOXES AND THE INDIVIDUAL AIR HANDLING UNITS MAY BE PRE-INSULATED LINE SETS, ISOCLIMA OR EQUAL. PRE-INSULATED WITH EXPANDED POLYETHYLENE SHEATH, CLOSED CELL WITH EXTERNAL LDPE FOIL. PIPING SHALL BE CRIMPED CLOSED FOR SAFETY. TESTED IN ACCORDANCE WITH UL94 FOR SURFACE BURNING CHARACTERISTICS, UL723A FOR FLAME/SMOKE INDEX AND UL746A FOR IGNITION RESISTANCE. COPPER SHALL BE ASTM B280 APPROVED.

ACCESS PANELS

WHERE CONSTRUCTION IS NOT INHERENTLY ACCESSIBLE, PROVIDE ADEQUATELY SIZED AND CONVENIENTLY LOCATED ACCESS DOORS IN CEILINGS, WALLS, AND FURRING FOR SERVICING VALVES, EQUIPMENT, ETC. DOORS SHALL BE DELIVERED TO THE GENERAL CONTRACTOR FOR INSTALLATION.

FIRE RATED: INRYCO/MILCOR, U.L. LISTED, "B" LABEL, 1 ½ HOUR RATING. MINIMUM SIZE SHALL BE 12" X 12". PROVIDE LARGER SIZES WHERE REQUIRED. LOCKS SHALL BE FLUSH SCREWDRIVER OPERATED.

DRYWALLED SURFACES: INRYCO/MILCOR, STYLE DW, PRIME COATED STEEL. MINIMUM SIZE SHALL BE 12" X 12". PROVIDE LARGER SIZES WHERE REQUIRED. LOCKS SHALL BE FLUSH SCREWDRIVER OPERATED.

CONCRETE AND TILED SURFACES: INRYCO/MILCOR, STYLE M, PRIME COATED STEEL, EXCEPT ACCESS PANELS INSTALLED IN TILED SURFACES SHALL BE STAIN FINISH STAINLESS STEEL. MINIMUM SIZE SHALL BE 12" X 12". PROVIDE LARGER SIZES WHERE REQUIRED. LOCKS SHALL BE FLUSH SCREWDRIVER OPERATED.

PLASTERED SURFACES: INRYCO/MILCOR, STYLE K, PRIME COATED STEEL. MINIMUM SIZE SHALL BE 12" X 12". PROVIDE LARGER SIZES WHERE REQUIRED. LOCKS SHALL BE FLUSH SCREWDRIVER OPERATED.

CONDENSING BOILERS

FURNISH AND INSTALL FACTORY FABRICATED, ASSEMBLED AND TESTED STAINLESS STEEL (AISI 316L) WATER-TUBE CONDENSING BOILER AS MANUFACTURED BY RIELLO OR AS APPROVED AND ACCEPTED BY THE ENGINEER. EACH BOILER SHALL BE COMPLETE WITH ALL COMPONENTS AND ACCESSORIES NECESSARY FOR A COMPLETE AND OPERABLE BOILER AS HEREINAFTER SPECIFIED. EACH BOILER SHALL BE ASSEMBLED WITH REQUIRED WIRING AND PIPING AS A SELF-CONTAINED UNIT.

DESIGN: THE BOILER SHALL BE GAS FLOOR STANDING CONDENSING BOILER WITH MULTIPLE STAINLESS STEEL HEAT EXCHANGERS FOR REDUNDANCY. EACH 500 MBH MODULE IS FULLY INDEPENDENT AND "STAND ALONE" THUS ALLOWING BOILER OPERATION EVEN IF AN ADJACENT MODULE IS TURNED OFF. THE BOILER SHALL BE ETL CERTIFIED AS A CONDENSING BOILER. THE BOILER SHALL OPERATE WITH NATURAL GAS OR PROPANE AND HAVE AN ETL CERTIFIED INPUT RATING AS NOTED ON THE DRAWINGS, AND SHALL BE LISTED WITH AHRI AND SHALL HAVE A MINIMUM THERMAL EFFICIENCY RATING OF 96.1% AT RATED INPUT. THE BOILER SHALL BE DESIGNED FOR A MINIMUM OF 20:1 TURN DOWN ON AR2000 WITH CONSTANT CO2 OVER THE TURN DOWN RANGE. THE BOILER WILL USE A DIRECT IGNITION SYSTEM. THE DESIGN SHALL PROVIDE QUIET BURNER IGNITION AND OPERATION. THE BURNER SHALL BE PRE-MIX RADIAL TYPE AND FIRE IN 360 DEGREES VERTICAL PATTERN.

CASING
THE FRAME SHALL BE MADE OF EXTRUDED ALUMINUM ALLOY (EN AW-6060) AND FINISHED WITH A BAKED ENAMEL POWDER COAT (RAL7016). THE PANELS SHALL BE MADE OF 18 AND 22 GAUGE CARBON STEEL AND FINISHED WITH A BAKED ENAMEL POWDER COAT (RAL9006).

EXECUTION

INSTALLATION, GENERAL

PROVIDE ALL NECESSARY CUTTING IN CONNECTION WITH THE WORK OF THE SECTION. NO CUTTING SHALL BE DONE WITHOUT THE APPROVAL OF THE ARCHITECT. COMPLY WITH REQUIREMENTS SPECIFIED IN CUTTING AND PATCHING SECTION.

NO STRUCTURAL MEMBERS SHALL BE DRILLED, BORED, OR NOTCHED IN A MANNER THAT WILL IMPAIR THEIR STRUCTURAL CAPACITY.

ALL PENETRATIONS OF CONCRETE OR MASONRY SHALL BE MADE WITH CORE DRILLS. 3.2 EQUIPMENT STARTUP A. NOTIFY THE OWNER'S REPRESENTATIVE A MINIMUM OF TWO WEEKS PRIOR TO EQUIPMENT STARTUP DATE TO ALLOW FOR OWNER 'S PERSONNEL TO BE PRESENT DURING STARTUP.

MANUFACTURER MUST PROVIDE A SERVICE TECHNICIAN TO SUPERVISE RIGGING OF THE UNITS TO ENSURE PROPER FIT.

UNIT MUST BE CHECKED OUT, TESTED AND PLACED INTO OPERATION BY THE INSTALLING CONTRACTOR UNDER THE SUPERVISION OF AN AUTHORIZED REPRESENTATIVE OF THE FACTORY.

CONTROLS CONTRACTOR MUST BE PRESENT DURING STARTUP TO ENSURE THAT FACTORYINSTALLED CONTROLS HAVE BEEN ADEQUATELY INSTALLED, WIRED, AND INTEGRATED INTO THE BUILDING MANAGEMENTS SYSTEM.

PROVIDE MINIMUM EIGHT (8) HOURS OF TRAINING TIME WITH OWNER'S MAINTENANCE PERSONNEL TO THOROUGHLY REVIEW NEW EQUIPMENT, MAINTENANCE REQUIREMENTS, AND EQUIPMENT CONTROLS.

DURING STARTUP, THE FULL FUNCTIONALITY OF THE EQUIPMENT SHALL BE DEMONSTRATED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, INCLUDING HEATING, MECHANICAL COOLING, ECONOMIZER COOLING, ZONE MODULATION, AND ALL EMERGENCY SHUTDOWN FEATURES.

EQUIPMENT, GENERAL REQUIREMENTS

EQUIPMENT SHALL OPERATE QUIETLY AND WITHOUT OBJECTIONABLE VIBRATION. SUCH PROBLEMS, OTHER THAN FROM EQUIPMENT OPERATING AT OPTIMUM CONDITIONS, SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ELIMINATED AT THE DIRECTION OF THE ARCHITECT.

INSTALL EQUIPMENT TO PROVIDE GOOD APPEARANCE, EASY ACCESS, AND ADEQUATE SPACE TO ALLOW REPLACEMENT AND MAINTENANCE. PROVIDE BASES, SUPPORTS, ANCHOR BOLTS, AND OTHER ITEMS REQUIRED TO ACHIEVE THIS. INSTALLATION SHALL BE LEVEL, ABOVE MOISTURE LEVEL, AND ADEQUATELY BRACED.

THOROUGHLY LUBRICATE EQUIPMENT BEFORE OPERATING. REPAIR OF DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

CONNECTIONS TO PIPING SHALL BE SECURED AND PROPERLY ALIGNED AND ALL UTILITY AND CONTROL CONNECTIONS SHALL BE PROPERLY ISOLATED FROM THE BUILDING STRUCTURE BY MEANS OF VIBRATION ISOLATORS AND FLEXIBLE CONNECTIONS. ANY EQUIPMENT NOT MEETING THIS REQUIREMENT WILL BE MODIFIED AND REINSTALLED AT NO EXPENSE TO THE OWNER.

MOVE EQUIPMENT INTO BUILDING THROUGH AVAILABLE OPENINGS. DISMANTLE EQUIPMENT WHERE NECESSARY TO ACCOMPLISH THIS. AFTER REASSEMBLY, TEST EQUIPMENT TO VERIFY ITS SATISFACTORY OPERATING CONDITION

DUCTWORK

ALL DUCTWORK SHALL BE INSTALLED WITHIN SPACES PROVIDED WHERE POSSIBLE. DUCTS SHALL BE INSTALLED TRUE TO LINE AND GRADE, FULLY SECURED TO STRUCTURAL FAMING WITH SPECIFIED HANGERS AND SUPPORTS, INSULATED, AND VIBRATION ISOLATED, WHERE REQUIRED.

EACH SECTION OF SUPPLY AIR DUCTWORK SHALL BE CLEANED AT THE SHOP, DUST AND OIL FREE, USING A DEGREASING AGENT AND DETERGENT AND SEALED AIRTIGHT AT BOTH ENDS WITH VISQUEEN AND TAPE. SUPPLY DUCTS SHALL BE ADDITIONALLY CLEANED WITH A DISINFECTING SOLUTION. ENDS OF ALL SUPPLY AND INTERNALLY INSULATED EXHAUST DUSTS SHALL BE KEPT SEALED UNTIL THE TIME THEY ARE JOINTED. WHEN DUCT SECTIONS ARE JOINED, WIPE DOWN ALL INTERIOR SURFACES WITH A CLEAN TACK CLOTH. IF TACK CLOTH SHOWS ANY DUST, THEN RE-CLEAN DUCT AS DESCRIBED ABOVE. THE INTENT IS THAT NO FOREIGN MATTER BE ALLOWED TO ENTER THE DUCTWORK AT ANY TIME AFTER FACTORY CLEANING AND DURING CONSTRUCTION.

CONTROLS

THIS CONTRACTOR SHALL PROVIDE ALL REQUIRED CONTROL COMPONENTS, INCLUDING BUT NOT LIMITED TO THERMOSTATS, TEMPERATURE SENSORS, STATIC PRESSURE SENSORS, HUMIDITY SENSORS, DAMPER ACTUATORS, VALVE ACTUATORS, UNITARY CONTROLLERS, RELAYS, AND LOW-VOLTAGE WIRING, SUCH THAT THE OWNER IS PROVIDED WITH A FULLY FUNCTIONAL CONTROL SYSTEM.

WHERE WORK IS PERFORMED IN AN EXISTING BUILDING, THIS CONTRACTOR SHALL INTEGRATE ALL CONTROL MODIFICATIONS INTO THE EXISTING BUILDING CONTROL SYSTEM, IF APPLICABLE. SPECIFIC REQUIREMENTS SHALL BE COORDINATED WITH OWNER AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

INSTALLATION OF THE SYSTEM SHALL BE MADE UNDER THE SUPERVISION OF THE MANUFACTURER OF THE EQUIPMENT, OR HIS FACTORY AUTHORIZED REPRESENTATIVE.

ROOM THERMOSTATS SHALL BE INSTALLED IN THE LOCATIONS INDICATED ON THE CONTRACT DRAWINGS. FINAL LOCATIONS SHALL BE COORDINATED WITH OWNER 'S MAINTENANCE PERSONNEL AND SHALL BE INSTALLED IN LOCATIONS WHICH SHALL PROVIDE REPRESENTATIVE TEMPERATURES FOR THE ADJACENT AREAS.

LOW VOLTAGE CONTROL WIRING AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 26.

INSULATION

EXTERIOR DUCTWORK:
THE INSULATION SHALL BE CUT LONGER THAN THE PERIMETER OF THE DUCT TO PROVIDE 2" STAPLE LAP AND MINIMUM COMPRESSION AT THE CORNERS. ALL JOINTS SHALL BE LAPPED 2' AND STAPLED WITH OUTWARD CLINCHING STAPLES 2 " ON CENTER. THE INSULATION SHALL BE MECHANICALLY FASTENED TO THE UNDERSIDE OF ALL DUCTS 24" WIDE OR MORE USING CUP-HEAD PINS, WELD PINS, OR STICK PINS WITH SPEED CLIPS 18" ON CENTER. ALL JOINTS AND PENETRATIONS OF THE VAPOR BARRIER JACKET SHALL BE SEALED WITH A MINIMUM 3" WIDE MATCHING PRESSURE SENSITIVE TAPE. PRESSURESENSITIVE TAPE SHALL BE FIRMLY RUBBED IN PLACE IMMEDIATELY AFTER APPLICATION USING A "SQUEEGEE" TYPE TOOL.

WHEN A VAPOR SEAL IS REQUIRED, TWO COATS OF VAPOR RETARDER MASTIC REINFORCED WITH ONE LAYER OF 4" WIDE, OPEN WEAVE GLASS FABRIC MAY BE USED IN LIEU OF PRESSURE-SENSITIVE TAPE. MASTIC SHALL BE BRUSHED ONTO JOINT AND GLASS FABRIC UNTIL THE FABRIC IS FILLED. MASTICS SHALL BE APPLIED IN ACCORDANCE WITH APPLICATION INSTRUCTIONS ON THE CONTAINER.

INTERIOR DUCT LINER
APPLY TO THE INSIDE FACE OF DUCTS, COATED SIDE FACING AIR STREAM, FASTEN USING FIRE RETARDANT ADHESIVE MEETING ASTM C 9169, AND SECURE WITH MECHANICAL LINER FASTENERS AT 24" MAXIMUM O.C., BOTH DIRECTIONS. PIN LENGTH SHOULD BE SUCH AS TO LIMIT COMPRESSION OF LINER.

EXPOSED EDGES MUST BE FACTORY OR FIELD COATED. FOR SYSTEMS OPERATING AT 4000 FPM OR HIGHER, A METAL NOSING MUST BE INSTALLED ON ALL LINER LEADING EDGES. INSULATION WITH TORN OR BROKEN COATINGS SHALL BE REMOVED OR REPLACED. LOOSE CORNERS, EDGES, AND BUTT JOINTS WILL NOT BE ACCEPTED.

REFRIGERANT PIPING

THE INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER 'S INSTRUCTIONS. ALL JOINTS AND SEAMS SHALL BE SEALED WITH WATERPROOF VAPOR RETARDANT ADHESIVE. ALL PIPES EXPOSED TO THE WEATHER SHALL BE COATED WITH ALUMINUM JACKETING TO PROTECT THE INSULATION FROM ULTRA-VIOLET RADIATION IN ACCORDANCE WITH THE MANUFACTURER 'S PUBLISHED INSTRUCTIONS.

TEST, INSPECTIONS

MAKE ALL NECESSARY CONTROL ADJUSTMENTS AND BALANCING OF AIR AND WATER FLOWS. OPERATE THE ENTIRE SYSTEM FOR A PERIOD OF TIME NOT LESS THAN THREE (3) WORKING DAYS FOR THE PURPOSE OF PROVING SATISFACTORY PERFORMANCE. DURING THIS PERIOD, INSTRUCT SUCH PERSONS AS THE OWNER AND/OR ARCHITECT MAY DESIGNATE IN THE PROPER OPERATION OF THE SYSTEMS. SHOULD FURTHER ADJUSTMENT PROVE NECESSARY, OPERATING TESTS SHALL BE REPEATED UNTIL A SATISFACTORY TEST IS OBTAINED.

THIS CONTRACTOR SHALL NOT ALLOW OR CAUSE ANY WORK OF THIS SECTION TO BE COVERED OR ENCLOSED UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE ARCHITECT AND THE AUTHORITIES HAVING JURISDICTION OVER THE WORK. SHOULD ANY OF THIS WORK BE ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION, TESTING, AND APPROVAL, THIS CONTRACTOR SHALL UNCOVER THE WORK, HAVE THE NECESSARY INSPECTIONS, TESTS, AND APPROVALS MADE AND, AT NO EXPENSE TO THE OWNER, MAKE ALL REPAIRS NECESSARY TO RESTORE BOTH HIS WORK AND THAT OF OTHER CONTRACTORS WHICH MAY HAVE BEEN DAMAGED TO BE IN CONFORMITY WITH THE CONTRACT DOCUMENTS.

CLEANUP
UPON COMPLETION OF THE WORK OF THIS SECTION, REMOVE ALL MATERIAL, DEBRIS, AND EQUIPMENT ASSOCIATED WITH OR USED IN THE PERFORMANCE OF THIS WORK.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL MECHANICAL SPECIFICATIONS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
M101

1/2" 1" 2"

GENERAL

PROVIDE ALL SUPERVISION, PERSONNEL, INSTRUMENTS, CALIBRATION, EQUIPMENT, AND ALL OTHER MATERIALS NECESSARY TO PERFORM BALANCING AND TESTING, AND COMPILE TEST DATA INCLUDING CALCULATIONS AND SERVICES NECESSARY FOR THE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS FOR THIS PROJECT, ALL IN ACCORDANCE WITH THE PROJECT DRAWINGS AND SPECIFICATIONS AND AS SPECIFIED HEREIN.

MECHANICAL CONTRACTOR WILL EMPLOY A TESTING, ADJUSTING, AND BALANCING (TAB) AGENCY THAT IS CERTIFIED BY ASSOCIATED AIR BALANCING COUNCIL (AABC), NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), OR TESTING, ADJUSTING, AND BALANCING BUREAU (TABB).

THE TAB AGENCY SHALL BE RESPONSIBLE FOR INSPECTING, BALANCING, ADJUSTING, TESTING, AND LOGGING THE DATA OF THE PERFORMANCE OF FANS, ALL DAMPERS IN THE DUCT SYSTEMS, ALL AIR DISTRIBUTION DEVICES, AND THE FLOWS OF WATER THROUGH ALL COILS.

EXISTING EQUIPMENT, UNLESS SPECIFICALLY MENTIONED OTHERWISE, SHALL NOT IN THE SCOPE OF THE TAB WORK.

A COMPLETELY OPERABLE SYSTEM SHALL BE PLACED INTO OPERATION EACH DAY DURING TESTING AND BALANCING.

THE TAB AGENCY SHALL UTILIZE INSTRUMENTATION WHICH MEETS THE REQUIREMENTS OF ASHRAE 111, SECTION 5, “INSTRUMENTATION”.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CERTIFYING IN WRITING THAT THE SYSTEM, AS SCHEDULED FOR BALANCING, IS OPERATIONAL AND COMPLETE. COMPLETENESS SHALL INCLUDE NOT ONLY THE PHYSICAL INSTALLATION, BUT THE MECHANICAL CONTRACTOR’S CERTIFICATION THAT THE PRIME MOVERS ARE INSTALLED IN GOOD WORKING ORDER, AND THAT FULL LOAD PERFORMANCE HAS BEEN PRELIMINARY TESTED UNDER THE CERTIFICATION OF THE MECHANICAL CONTRACTOR. BEFORE ANY TESTING AND BALANCING IS STARTED, A COMPLETE REPORT SHALL BE SENT TO THE TAB AGENCY BY THE MECHANICAL CONTRACTOR.

THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL MODIFICATIONS TO RECERTIFY DISCREPANCIES REPORTED BY THE TAB CONTRACTOR AS INDICATING NONCOMPLIANCE WITH THE CONTRACT DOCUMENTS. BY COMPLETING THE WORK ON TIME, THE MECHANICAL CONTRACTOR SHALL PROVIDE SUFFICIENT TIME BEFORE THE COMPLETION DATE SO THAT BALANCING CAN BE ACCOMPLISHED.

IF CONSTRUCTION DEFICIENCIES ARE ENCOUNTERED WHICH PRECLUDE OBTAINING OPTIMUM CONDITIONS, THE DEFICIENCIES WILL BE RECORDED AND GIVEN TO THE OWNER’S REPRESENTATIVE. THE TAB AGENCY IS ADVISED THAT DEFICIENCIES IN THE HVAC CONSTRUCTION ARE OFTEN ENCOUNTERED DURING FINAL TAB SERVICES, AND SHOULD INCLUDE IN THE BID AN AMOUNT DEEMED ADVISABLE TO COMPENSATE FOR TIME IN IDENTIFYING THE DEFICIENCIES.

SERVICES

THE TAB AGENCY WILL BALANCE, TEST, AND ADJUST THE SYSTEMIC COMPONENTS TO OBTAIN OPTIMUM CONDITIONS IN EACH CONDITIONED SPACE IN THE BUILDING. IF CONSTRUCTION DEFICIENCIES ARE ENCOUNTERED WHICH PRECLUDE OBTAINING OPTIMUM CONDITIONS, THE DEFICIENCIES WILL BE RECORDED AND GIVEN TO THE OWNER’S REPRESENTATIVE. THE TAB AGENCY IS ADVISED THAT DEFICIENCIES IN THE HVAC CONSTRUCTION ARE OFTEN ENCOUNTERED DURING FINAL TAB SERVICES, AND SHOULD INCLUDE IN THE BID AN AMOUNT DEEMED ADVISABLE TO COMPENSATE FOR TIME IN IDENTIFYING THE DEFICIENCIES.

THE REPORT SHALL BE COMPLETE WITH LOGS, DATA, AND RECORDS AS REQUIRED HEREIN AND ALL LOGS, DATA, AND RECORDS SHALL BE TYPED, PRODUCED, ON WHITE BOND PAPER, AND BOUND. TRANSMIT FOUR COPIES DIRECTLY TO THE OWNER’S REPRESENTATIVE TO BE DISTRIBUTED TO THE MECHANICAL CONTRACTOR, CONTROLS CONTRACTOR, ENGINEER, AND RECORD FILE.

THE REPORT SHALL CONTAIN THE FOLLOWING GENERAL DATA IN A FORMAT SELECTED BY THE TAB AGENCY FOR CLARITY AND EASE OF REFERENCE.

- PROJECT TITLE.
- PROJECT LOCATION.
- PROJECT ARCHITECT (FIRM NAME AND ADDRESS).
- PROJECT MECHANICAL ENGINEER (NAME).
- TAB FIELD TEST ENGINEER (NAME).
- TAB AGENCY (FIRM NAME AND ADDRESS).
- INCLUSIVE DATES TESTS WERE PERFORMED AND DATE OF REPORT.

CALIBRATION CERTIFICATES OF EACH INSTRUMENT USED ALONG WITH SPECIFIC ID NUMBERS (I.E., SERIAL NUMBERS).

SUBMITTALS

SUBMITTAL NO. 15950 (1) – TAB AGENDA
THE TAB CONTRACTOR SHALL SUBMIT A COMPLETE AGENDA, WHICH SHALL OUTLINE IN FULL THE TESTING METHODS AND LOCATIONS FOR EACH HVAC SYSTEM AND/OR DEVICE THAT IS WITHIN THE SCOPE OF THE TAB WORK. THE AGENDA SHALL REPRESENT THE TOTAL SYSTEM BALANCE REPORT, LESS FIELD TEST DATA. AREAS OF INTENDED FIELD TEST INPUTS SHALL BE REPRESENTED BY FULLY LABELED BLANK SPACES.

THE TAB AGENDA SHALL ALSO INDICATE THE PROPOSED TEST METHODS, INSTRUMENTATION DEVICES AND ALL APPLICABLE CALIBRATION CERTIFICATES.

SUBMITTAL NO 15950 (2) – TAB REPORT
PROVIDE TEST AND BALANCE REPORT AS INDICATED HEREIN.

AIR SYSTEMS REQUIREMENTS

IN ADDITION TO THE ABOVE DATA IN ITS APPROPRIATE FORMAT, THE TEST AND BALANCE REPORT SHALL INCLUDE THE FOLLOWING DATA:

AIR HANDLING UNITS (EXISTING AND NEW)

- MANUFACTURER AND MODEL.
- SIZE.
- MOTOR HP, VOLTAGE, PHASE, CYCLES, FULL LOAD AMPS.
- LOCATION AND LOCAL IDENTIFICATION DATA.
- IDENTIFICATION TAG LISTED IN SCHEDULES ON DRAWINGS AND SPECIFICATIONS.
- SUPPLY AIRFLOW (CFM) AND EXHAUST AIRFLOW (CFM), WHERE APPLICABLE.
- FAN RPM.
- MOTOR CURRENT READINGS AT EACH FAN.
- INLET AND OUTLET STATIC PRESSURE FROM SUPPLY FAN AND EXHAUST FAN (IF APPLICABLE). THESE READINGS SHALL BE RELATED TO THE FAN CURVE.
- STATIC PRESSURE DIFFERENTIAL ACROSS EACH COIL AND FILTER SECTION.
- ENTERING AIR AND LEAVING AIR TEMPERATURES (DB/WB) IN 100% COOLING MODE.
- ENTERING AIR AND LEAVING AIR TEMPERATURES (DB) IN 100% HEATING MODE.
- OUTDOOR AIR PERCENTAGE SETTING.
- OUTDOOR AIRFLOW IN ECONOMIZER MODE (IF APPLICABLE).
- OUTDOOR AIRFLOW IN DEMAND CONTROL VENTILATION MODE (IF APPLICABLE).

EXHAUST FANS

- MANUFACTURER AND MODEL.
- SIZE.
- MOTOR HP, VOLTAGE, PHASE, CYCLES, FULL LOAD AMPS.
- LOCATION AND LOCAL IDENTIFICATION DATA.
- IDENTIFICATION TAG LISTED IN SCHEDULES ON DRAWINGS AND SPECIFICATIONS.
- EXHAUST AIRFLOW (CFM).
- FAN RPM.
- MOTOR CURRENT READINGS AT EACH FAN.

ENERGY RECOVERY VENTILATOR

- MANUFACTURER AND MODEL.
- SIZE.
- MOTOR HP, VOLTAGE, PHASE, CYCLES, FULL LOAD AMPS.
- LOCATION AND LOCAL IDENTIFICATION DATA.
- IDENTIFICATION TAG LISTED IN SCHEDULES ON DRAWINGS AND SPECIFICATIONS.
- SUPPLY AIRFLOW (CFM) AND EXHAUST AIRFLOW (CFM), WHERE APPLICABLE.
- FAN RPM.
- MOTOR CURRENT READINGS AT EACH FAN.
- INLET AND OUTLET STATIC PRESSURE FROM SUPPLY FAN AND EXHAUST FAN (IF APPLICABLE). THESE READINGS SHALL BE RELATED TO THE FAN CURVE.

EXECUTION

GENERAL PROCEDURES
DURING THE BALANCING, THE TEMPERATURE REGULATION SHALL BE ADJUSTED FOR PROPER RELATIONSHIP BETWEEN CONTROLLING INSTRUMENTS AND CALIBRATED. THE CORRECTNESS OF THE FINAL SETTING SHALL BE PROVED BY TAKING HOURLY READINGS FOR A PERIOD OF ONE SUCCESSIVE 8-HOUR DAY, IN A TYPICAL ROOM ON EACH SEPARATELY CONTROLLED ZONE, AFTER TENANT MOVES IN. THE TOTAL VARIATION SHALL NOT EXCEED 2 DEGREES FROM THE PRESET MEDIUM TEMPERATURE DURING THE TEMPERATURE SURVEY PERIOD. (THIS WILL BE DONE ONLY ON SYSTEMS THAT ARE TOTALLY OPERATIONAL).

AIR SYSTEMS PROCEDURES
THE TAB AGENCY SHALL PERFORM THE FOLLOWING TESTS AND BALANCE THE AIR SYSTEMS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

TEST AND ADJUST BLOWER AND MOTOR RPM TO DESIGN REQUIREMENTS.

TEST AND RECORD MOTOR FULL LOAD AMPERES AND CORRESPONDING VOLTAGE.

MAKE PITOT TUBE TRAVERSE OF MAIN SUPPLY DUCTS AND OBTAIN DESIGN CFM AT FANS.

TEST AND RECORD SYSTEM STATIC PRESSURES, SUCTION AND DISCHARGE.

TEST AND ADJUST SYSTEM FOR DESIGN CFM OF OUTSIDE AIR.

TEST AND RECORD ENTERING AND LEAVING AIR DRY BULB TEMPERATURES OF ALL HEATING AND COOLING COILS.

TEST AND RECORD ENTERING AND LEAVING WET BULB TEMPERATURES OF ALL COOLING COILS.

ADJUST ALL MAIN SUPPLY AND RETURN AIR DUCTS TO PROPER DESIGN CFM. SYSTEM SUPPLY AIRFLOW, SYSTEM RETURN AIRFLOW, AND SYSTEM OUTDOOR AIRFLOW SHALL BE BALANCED TO WITHIN 5% OF THE DESIGN REQUIREMENT.

ADJUST ALL ZONES TO PROPER DESIGN CFM, SUPPLY AND RETURN.

TEST AND ADJUST EACH DIFFUSER, GRILLE, AND REGISTER TO WITHIN 10% OF DESIGN REQUIREMENT.

EACH GRILLE, DIFFUSER, AND REGISTER SHALL BE IDENTIFIED AS TO LOCATION AND AREA.

SIZE, TYPE, AND MANUFACTURER OF DIFFUSERS, GRILLES, REGISTERS, AND ALL TESTED EQUIPMENT SHALL BE IDENTIFIED AND LISTED. MANUFACTURER’S RATINGS ON ALL EQUIPMENT SHALL BE USED TO MAKE REQUIRED CALCULATIONS.

READINGS AND TEST OF DIFFUSERS, GRILLES, AND REGISTERS SHALL INCLUDE REQUIRED FPM VELOCITY AND TEST RESULTANT VELOCITY, REQUIRED CFM AND TEST RESULTANT CFM AFTER ADJUSTMENTS.

TAB AGENCY SHALL CHECK ALL CONTROLS TO ENSURE THEY ARE OPERATING AS SPECIFIED. PROVIDE THE CONTROL CONTRACTOR WITH SPECIFIC SET POINTS.

TEMPERATURE CONTROL SYSTEM
IN THE PROGRESS OF PERFORMING THE TAB WORK, THE TAB AGENCY SHALL:

WORK WITH THE CONTROLS CONTRACTOR TO ENSURE THE MOST EFFECTIVE TOTAL SYSTEM OPERATION WITHIN THE DESIGN LIMITATIONS, AND TO OBTAIN MUTUAL UNDERSTANDING OF INTENDED CONTROL PERFORMANCE.

VERIFY THAT ALL CONTROL DEVICES ARE PROPERLY CONNECTED.

VERIFY THAT ALL DAMPERS, VALVES, AND OTHER CONTROLLED DEVICES ARE OPERATED BY THE INTENDED CONTROLLER.

VERIFY THAT ALL DAMPERS AND VALVES ARE IN THE POSITION INDICATED BY THE CONTROLLER (OPEN, CLOSED, OR MODULATING).

VERIFY THAT THE INTEGRITY OF VALVES AND DAMPERS IN TERMS OF TIGHTNESS OF CLOSE-OFF AND FULL-OPEN POSITION. THIS INCLUDES DAMPERS IN MULTI-ZONE UNITS.

CHECK THAT ALL VALVES ARE PROPERLY INSTALLED IN THE PIPING SYSTEM IN RELATION TO DIRECTION OF FLOW AND LOCATION.

VERIFY THE CALIBRATION OF ALL CONTROLLERS.

VERIFY THE PROPER APPLICATION OF ALL NORMALLY OPEN AND NORMALLY CLOSED VALVES.

CHECK THE LOCATIONS OF ALL THERMOSTATS AND HUMIDISTATS FOR POTENTIAL ERRATIC OPERATION FROM OUTSIDE INFLUENCES SUCH AS SUNLIGHT, DRAFTS, OR COLD WALLS.

CHECK THE LOCATIONS OF ALL SENSORS TO DETERMINE WHETHER THEIR POSITION WILL ALLOW THEM TO SENSE ONLY THE INTENDED TEMPERATURES OR PRESSURES OF THE MEDIA. CONTROLS CONTRACTOR WILL RELOCATE AS DEEMED NECESSARY BY THE TAB AGENCY.
CHECK THE SEQUENCE OF OPERATION FOR ANY CONTROL MODE IS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS. VERIFY THAT ONLY MINIMUM SIMULTANEOUS HEATING AND COOLING OCCURS. OBSERVE THAT HEATING CANNOT TAKE PLACE UNTIL THE COOLING ZONE OF VALVE IS COMPLETELY CLOSED.

VERIFY THAT ALL CONTROLLER SET POINTS MEET THE DESIGN INTENT.

CHECK ALL DAMPERS FOR FREE TRAVEL.

VERIFY THE OPERATION OF ALL INTERLOCK SYSTEMS.

PERFORM ALL SYSTEM VERIFICATION TO ASSURE THE SAFETY OF THE SYSTEM AND ITS COMPONENTS.

A SYSTEMATIC CHECK OF THE ABOVE REQUIREMENTS SHALL BE INCLUDED IN THE FINAL TAB REPORT.

DUCT LEAKAGE TEST

ALL SUPPLY, RETURN, EXHAUST, AND OUTSIDE AIR DUCTWORK SHALL BE TESTED FOR LEAKS, USING NECESSARY INSTRUMENTS BEFORE INSULATING ANY DUCTWORK.

DUCTWORK SHALL BE LEAK-TESTED IN ACCORDANCE WITH SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. REPRESENTATIVE SECTIONS TOTALING NOT LESS THAN 10 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. WHERE THE TESTED 10 PERCENT FAILS TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION, THEN 40 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. WHERE THE TESTED 40 PERCENT FAILS TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION, THEN 100 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED.

THE MAXIMUM PERMITTED LEAKAGE SHALL BE DETERMINED IN ACCORDANCE WITH CMC 603.10.1.

THE TEST AND BALANCE REPORT SHALL INCLUDE THE RESULTS OF THE DUCT LEAKAGE TEST FOR THE ENGINEER’S REVIEW.

TEST AND BALANCE REPORT
THE REPORT SHALL CONTAIN THE FOLLOWING DATA:

A LISTING OF THE MEASURED AIR QUANTITIES AT EACH OUTLET CORRESPONDING TO THE TEMPERATURE TABULATION SPECIFIED ABOVE.

AIR QUANTITIES AT EACH RETURN AND EXHAUST AIR HANDLING DEVICE (ONLY IF DUCTED RETURN SYSTEMS).
STATIC PRESSURE READINGS ENTERING AND LEAVING EACH SUPPLY, RETURN AND EXHAUST FAN, FILTER, AND COIL OF THE SYSTEM. THESE READINGS SHALL BE RELATED TO FAN CURVES IN TERMS OF CFM HANDLED.

WATER PRESSURE READINGS AT GAUGE CONNECTIONS. PRESSURE READINGS AT COILS AND PUMPS SHALL BE RELATED TO COILS AND PUMP CURVES IN TERMS OF GPM HANDLED.

MOTOR CURRENT READINGS AT EACH FAN AND PUMP. THE VOLTAGES AT THE TIME OF THE READINGS SHALL BE LISTED.

FINAL ACCEPTANCE

AT THE TIME OF FINAL INSPECTION, THE BALANCING AGENCY SHALL RECHECK, IN THE PRESENCE OF THE OWNER’S REPRESENTATIVE, SPECIFIC AND RANDOM SELECTIONS OF DATA, I.E., WATER AND AIR QUANTITIES, RECORDED IN THE CERTIFIED REPORT.

POINTS AND AREAS FOR RECHECK SHALL BE SELECTED BY THE OWNER’S REPRESENTATIVE.

MEASUREMENT AND TEST PROCEDURES SHALL BE THE SAME AS APPROVED FOR WORK FORMING BASIS OF CERTIFIED REPORT.

SELECTIONS FOR RECHECK, SPECIFIC PLUS RANDOM, WILL NOT NORMALLY EXCEED 25% OF THE TOTAL NUMBER TABULATED IN THE REPORT, EXCEPT THAT SPECIAL AIR SYSTEMS MAY REQUIRE A COMPLETE RECHECK FOR SAFETY REASONS.

IF RANDOM TESTS ELICIT A MEASURED FLOW DEVIATION OF 10% OR MORE FROM THAT RECORDED IN THE CERTIFIED REPORT ON 10% OR MORE OF THE SELECTED RECHECK STATIONS, THE REPORT SHALL BE AUTOMATICALLY REJECTED. IN THE EVENT THE REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED AND TESTED, NEW DATA RECORDED, NEW CERTIFIED REPORT SUBMITTED, AND NEW INSPECTION TESTS MADE, ALL AT NO ADDITIONAL COST TO THE OWNER.

FOLLOWING FINAL ACCEPTANCE OF THE CERTIFIED REPORT BY THE OWNER’S REPRESENTATIVE, THE SETTINGS OF ALL VALVES, SPLITTER, DAMPERS, AND OTHER ADJUSTMENT DEVICES SHALL BE PERMANENTLY MARKED BY THE TAB AGENCY, SO THAT ADJUSTMENT CAN BE RESTORED IF DISTURBED AT ANY TIME. DEVICES SHALL NOT BE MARKED UNTIL AFTER FINAL ACCEPTANCE.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	2/18/2026	BID ADDENDUM 1	ARD	TVCE	EEK	EEK

YUROK TRIBE
APN: 140-050-025
144 KLAMATH BLDV.
KLAMATH, CA. 95548

TRANSPORTATION BUILDING
GENERAL TAB SPECIFICATIONS

DEL NORTE COUNTY, CALIFORNIA

DATE OF ISSUE:
FEBRUARY 2026

SCALE:
ARCH D

PROJECT NO:
484.2022.03

DRAWING NO:
M102

1/2” 1” 2”

SITE PLAN

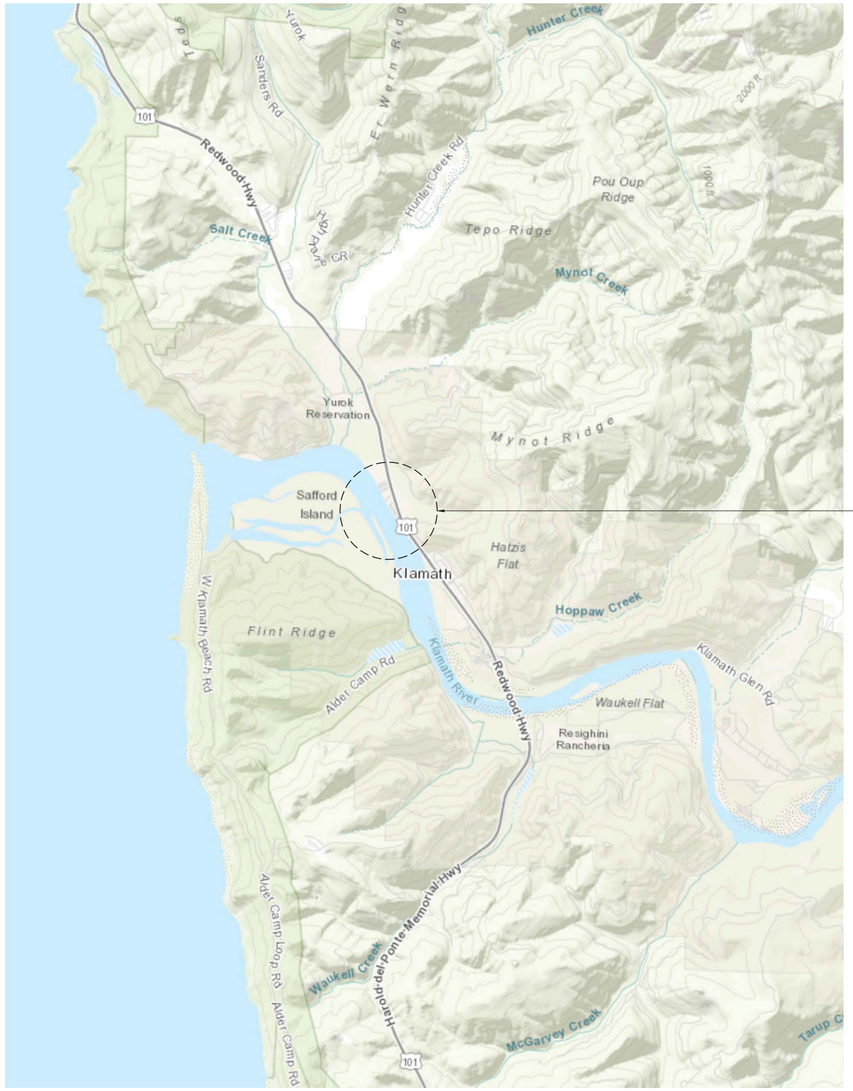
NEW TRANSPORTATION BUILDING
YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

LEGEND

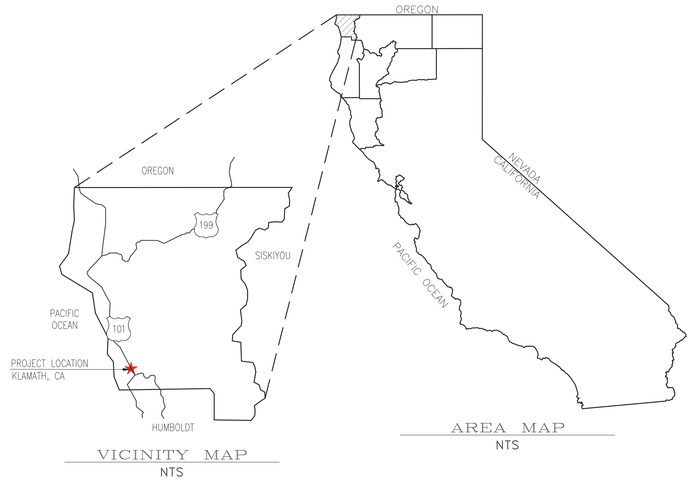
PROPOSED		EXISTING
TV	CABLE TV OVERHEAD	TV
E(OH)	POWER OVERHEAD	E(OH)
T(OH)	TELEPHONE OVERHEAD	T(OH)
T(UG)	TELEPHONE UG	T(UG)
E(UG)	POWER (UNDERGROUND) UG	E(UG)
G	GAS LINE	G
	ANCHOR/GUY WIRE	
	SEWER MANHOLE	
8"S	SEWER LINE	8"S
	FLUSHING BRANCH/CLEANOUT	
	SEWER SERVICE	
	STORM DRAIN MANHOLE	
12"SD	STORM DRAIN PIPE	12"SD
	STORM DRAIN INLET	
	WATER LINE	
	WATER VALVE	
	REDUCER	
	BLOW OFF ASSEMBLY	
	AIR RELIEF VALVE	
	FIRE HYDRANT ASSEMBLY	
	R.P. BACKFLOW PREVENTER	
	DRIVE WAY	
	SIDEWALK RAMP	
	BARRICADE	
	SURVEY MONUMENT	
	CENTERLINE	
	RIGHT OF WAY LINE	
	PROPERTY LINE	
	EASEMENT LINE	
	EDGE OF PAVEMENT	
R R R	RIDGE LINE	R R R
x x x	FENCE LINE	x x x
40	CONTOUR LINE	40
	SIDEWALK	
	STREET LIGHT	
	STREET NAME SIGN	
	SIGN	

ABBREVIATIONS

AC	=	ASPHALTIC CONCRETE
AB	=	AGGREGATE BASE
A.D.	=	ALGEBRAIC DIFFERENCE
BC, PC	=	BEGIN CURVE
CO	=	CLEAN OUT
CL	=	CENTER LINE
CMP	=	CORRUGATED METAL PIPE
CPCT.	=	COMPACT
D	=	DELTA
DET	=	DETAIL
DRN	=	DRAIN
<A>	=	EXISTING
EC	=	END CURVE
EG	=	EXISTING GROUND
EP	=	EDGE OF PAVEMENT
FF	=	FINISH FLOOR
FG	=	FINISH GRADE
FH	=	FIRE HYDRANT
FL	=	FLOW LINE
GA	=	GUY ANCHOR
GV	=	GATE VALVE
HC	=	HANDICAPPED
HDPE	=	HIGH DENSITY POLYETHYLENE PIPE
INV	=	INVERT
(INT-X)	=	INTERSECTION
K	=	SIGHT DISTANCE
LAT	=	LATERAL
LD.	=	LOCAL DEPRESSION
LF.	=	LINEAR FEET
LF.	=	SEWER LEACH FIELD
LT.	=	LEFT
MAS.	=	MASONRY
MI	=	MILES
MSE	=	MECHANICALLY STABILIZED EARTH
(N)	=	NEW
NTS	=	NOT TO SCALE
O.C.	=	ON CENTER
PG&E	=	PACIFIC GAS & ELECTRIC
(P)	=	PROPOSED
PP	=	POWER POLE
PRC	=	POINT OF REVERSE CURVE
PT	=	POINT
PVI	=	POINT OF VERTICAL INTERSECTION
PVT	=	PRIVATE
RT	=	RIGHT
RTN	=	RETURN
SB	=	SET BACK
SDMH	=	STORM DRAIN MAN HOLE
SHT	=	SHEET
SD	=	STORM DRAIN
STA	=	STATION
STD.	=	STANDARD
TC	=	TOP OF CURB
TBC	=	TOP BACK OF CURB
TFC	=	TOP FACE OF CURB
TOB	=	TOP OF BANK
TEL	=	TELEPHONE
TP	=	TOP OF PAVEMENT
TVCE	=	TRINITY VALLEY CONSULTING ENGINEERS
TW	=	TOP OF WALL
(TYP)	=	TYPICAL
UG	=	UNDERGROUND
W	=	WATER
WV	=	WATER VALVE



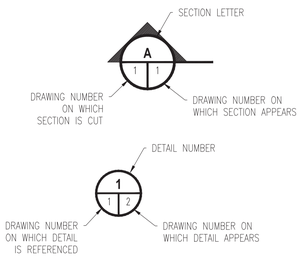
LOCATION MAP
NTS



VICINITY MAP
NTS

AREA MAP
NTS

SYMBOLS



SHEET INDEX

ENGINEERING NOTES

ALL REQUIREMENTS FROM THE SOILS REPORT HAVE BEEN INCORPORATED INTO THESE PLANS.

THE ENGINEER OF RECORD SHALL INSPECT ALL SITE GRADING.

SURVEY NOTES

FIELD SURVEY FOR TOPOGRAPHIC PURPOSES WAS PERFORMED BY TVCE ON MARCH 9, 2022

A BOUNDARY SURVEY WAS NOT CONDUCTED BY TVCE.

CONTRACTOR ALERT!

CONTRACTOR MUST CONTACT USA DIG AT 800-227-2600 AT LEAST 72 HOURS BEFORE ANY EARTHWORK OR ACTIVITIES THAT MAY IMPACT EXISTING UNDERGROUND UTILITIES.

EXISTING UTILITY ALIGNMENTS BOTH HORIZONTALLY AND VERTICALLY MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION ACTIVITIES.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING
TITLE SHEET
YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

DRAWING NO:
T01

1/2" 1" 2"

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN IN THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE CONTRACT SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL UTILITIES AS NECESSARY TO SUCCESSFULLY COMPLETE ALL CONSTRUCTION ACTIVITIES.
3. ALL EXISTING AND PROPOSED DIMENSIONS DEPICTED HEREIN SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO STARTING WORK.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ALL CONSTRUCTION ACTIVITIES.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING UTILITIES, WHICH ARE TO REMAIN IN PLACE, FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE CONTRACTOR'S SOLE EXPENSE WITHOUT ADDITIONAL COMPENSATION.
6. THE CONTRACTOR SHALL POSSESS THE CLASS, OR CLASSES, OF LICENSE AS SPECIFIED IN THE NOTICE TO CONTRACTORS.
7. THE CONTRACTOR IS TO EXPOSE THE ENDS OF EXISTING BURIED UTILITIES FOR SURVEYORS TO VERIFY LOCATION AND ELEVATION PRIOR TO PLACEMENT OF NEW UTILITIES. ALL COSTS OF SUCH EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE PRICE PAID FOR VARIOUS ITEMS OF WORK.
8. ALL APPLICABLE FEES TO BE PAID AND PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR BEFORE COMMENCEMENT OF CONSTRUCTION.
9. THE TYPES, LOCATIONS, SIZES, AND DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES, HOWEVER, TVCE CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT DEPICTED ON THESE DRAWINGS.
10. THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
11. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF U.S.A. TWO WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER 1-800-227-2600.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND OTHER SURVEY MARKERS DURING CONSTRUCTION. ALL SUCH MONUMENTS OR MARKERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
13. UNDOCUMENTED PIPING EXPOSED DURING CONSTRUCTION SHALL BE LOCATED AND MARKED BY THE CONTRACTOR FOR INCLUSION IN AS-BUILT DRAWINGS.
14. ALL NEW BURIED PIPING SHALL HAVE A MINIMUM OF 3 FEET OF COVER UNLESS OTHERWISE SPECIFIED.

CULTURALLY SENSITIVE AREAS:

1. AREAS WITHIN THE PROJECT PERIMETER THAT ARE CULTURALLY SENSITIVE SHALL BE PROTECTED AGAINST DAMAGE FROM CONSTRUCTION ACTIVITIES. AT NO TIME SHALL SUCH CULTURALLY SENSITIVE AREAS BE ENTERED, PARKED UPON, STOCK PILED UPON, OR HAVE ANY OTHER ACTIVITY ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT IN ANY WAY INFRINGE UPON, DETERIORATE, DESTROY, OR RENDER TO A STATE OR CONDITION UNACCEPTABLE ANY CULTURALLY SENSITIVE AREA. THE CONTRACTOR AGREES TO PROTECT ALL SUCH AREAS DURING ANY AND ALL ACTIVITIES ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT.

QUANTITIES:

1. QUANTITIES AND LENGTHS OF ITEMS PROVIDED WITHIN THIS PLAN SET ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL QUANTITIES OF COMPONENTS REQUIRED FOR THE SUCCESSFUL AND SATISFACTORY COMPLETION OF THE PROJECT.

TRAFFIC CONTROL NOTES:

1. WHENEVER THE WORK AREA IS ADJACENT TO A TRAFFIC LANE AND THERE IS A CUT, DITCH OR TRENCH MORE THAN TWO INCHES DEEP, THE CONTRACTOR SHALL MAINTAIN CONTINUOUS BARRICADES SPACED AT APPROXIMATELY 20-FOOT INTERVALS FOR THE FIRST 100 FEET FROM THE BEGINNING OF THE CUT, DITCH OR TRENCH, AND AT APPROXIMATELY 50-FOOT INTERVALS THEREAFTER. IF THE CUT, DITCH OR TRENCH IS MORE THAN TEN FEET FROM A TRAFFIC LANE, THE BARRICADED SPACING MAY BE GREATER BUT SHALL NOT EXCEED 200 FEET.
2. UNLESS SPECIFICALLY SET FORTH AS SPECIAL PROVISIONS, ALL MARKED LANES OF TRAFFIC SHALL BE UNOBSTRUCTED IN EACH DIRECTION DURING THE PEAK TRAFFIC HOURS OF 7:00 TO 8:30AM AND 3:30 TO 6:00 PM.
3. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
4. TRACK MOUNTED VEHICLES SHALL NOT BE OPERATED ON PAVED ROADS.

AGGREGATE BASE ROCK NOTES:

1. AGGREGATE BASE SHALL BE CALTRANS CLASS II.
2. AGGREGATE BASE SHALL BE INSTALLED PER SECTION 26 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. AGGREGATE BASE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION PER CAL 316.

ASPHALT CONCRETE NOTES:

1. ASPHALT CONCRETE SHALL BE ½" MAXIMUM RADIUS HOT MIX TYPE A.
2. ASPHALT CONCRETE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH SECTION 39 OF THE CALTRANS STANDARD SPECIFICATIONS.
3. ASPHALT CONCRETE SHALL BE COMPACTED TO A MINIMUM OF 95% RELATIVE COMPACTION AS VERIFIED PER CAL 216.
4. EXISTING AC SURFACES SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL WITH THE CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RESEALED PRIOR TO PAVING.

ELECTRIC GENERAL NOTES:

1. ALL ELECTRIC FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET PACIFIC GAS AND ELECTRIC (PG&E) REQUIREMENTS PER CURRENT GREEN BOOK.
2. REFER TO PG&E SITE PLAN FOR ADDITIONAL DETAILS NOT EXPRESSED ON THIS SHEET.
3. CONTRACTOR TO COORDINATE WITH PG&E FOR ALL REQUIRED TESTING/INSPECTION AND FOR PG&E INSTALLED FACILITIES.
4. OWNER HAS THE RESPONSIBILITY OF PAYING ALL FEES TO PG&E DIRECT FOR THEIR SERVICES/FACILITIES UNDER THE ORIGINAL APPLICATION FOR THIS PROJECT. ADDITIONAL COSTS RESULTING DIRECTLY FROM THE CONTRACTOR'S ACTIVITIES AND NOT EXPRESSLY COVERED UNDER THE ORIGINAL APPLICATION WILL BE THE SOLE EXPENSE OF THE CONTRACTOR.
5. POWER/ELECTRICAL FACILITIES DEPICTED ON THESE PLAN SETS ARE FOR GENERAL LOCATION PURPOSES, ACTUAL HARDWARE, ALIGNMENTS, PLACEMENT, AND DESIGN TO BE PROVIDED BY PACIFIC GAS & ELECTRIC (PG&E). CONTRACTOR TO COORDINATE WITH PG&E FOR DESIGN AND INSTALLATION OF REQUIRED COMMUNICATION FACILITIES.

COMMUNICATIONS GENERAL NOTES:

1. ALL COMMUNICATIONS FACILITIES AND WORK TO BE IN STRICT COMPLIANCE WITH APPLICABLE LAWS AND MUST MEET ALL FRONTIER REQUIREMENTS AS APPLICABLE UNDER CPUC.
2. CONTRACTOR TO COORDINATE WITH FRONTIER FOR ALL REQUIRED TESTING/INSPECTION AND FOR FRONTIER INSTALLED FACILITIES.
3. OWNER HAS THE RESPONSIBILITY OF PAYING ALL FEES TO FRONTIER DIRECT FOR THEIR SERVICES/FACILITIES UNDER THE ORIGINAL APPLICATION FOR THIS PROJECT. ADDITIONAL COSTS RESULTING DIRECTLY FROM THE CONTRACTOR'S ACTIVITIES AND NOT EXPRESSLY COVERED UNDER THE ORIGINAL APPLICATION WILL BE THE SOLE EXPENSE OF THE CONTRACTOR.
4. TELEPHONE/COMMUNICATION FACILITIES DEPICTED ON THESE PLAN SETS ARE FOR GENERAL LOCATION PURPOSES, ACTUAL HARDWARE, ALIGNMENTS, PLACEMENT, AND DESIGN TO BE PROVIDED BY FRONTIER. CONTRACTOR TO COORDINATE WITH FRONTIER FOR DESIGN AND INSTALLATION OF REQUIRED COMMUNICATION FACILITIES.

DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL IMPLEMENT ONE OR BOTH OF THE FOLLOWING MEASURES FOR DUST CONTROL ON THIS SITE:

1.1 SPRAYING OF WATER SO AS NOT TO GENERATE ADDITIONAL RUNOFF. NO DUST PALLIATIVE MATERIALS OTHER THAN WATER WILL BE USED ON THIS PROJECT. IF NON-POTABLE WATER IS TO BE USED, IT MUST BE CONVEYED IN TANKS OR PIPES CLEARLY LABELED AS "NON-POTABLE WATER – DO NOT DRINK".

1.2 COVERS FOR EXPOSED AREAS.

EQUIPMENT & MATERIALS STORAGE NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS AND EQUIPMENT STORED ONSITE SHALL HAVE ADEQUATE COVERINGS AND CONTAINMENT TO PREVENT LEAKAGE AND SPILLS.
2. ALL MATERIALS AND EQUIPMENT SHALL BE STORED IN DESIGNATED AND APPROVED AREAS. THE AREA SHALL BE BERMED WITH EARTH DIKES THAT THE CONTRACTOR SHALL INSPECT AND MAINTAIN WEEKLY.
3. ALL FLAMMABLE, REACTIVE, AND/OR IGNITABLE LIQUIDS MUST COMPLY WITH LOCAL FIRE CODES.
4. DURING THE RAINY SEASON (OCTOBER THROUGH APRIL) THE CONTRACTOR SHALL ENSURE THAT MATERIALS ARE COVERED.
5. NO CHEMICALS, DRUMS, OR BAGGED MATERIALS SHALL BE STORED DIRECTLY ON THE GROUND; ITEMS SHALL BE PLACED ON PALLETS AND/OR IN SECONDARY CONTAINMENT.
6. IF DRUMS MUST BE KEPT UNCOVERED, THE CONTRACTOR SHALL STORE THEM AT A SLIGHT ANGLE TO REDUCE PONDING OF RAINWATER AND REDUCE CORROSION.
7. WHEN DANGEROUS MATERIALS AND/OR LIQUID CHEMICALS ARE UNLOADED ONSITE, THE CONTRACTOR SHALL HAVE EMPLOYEES TRAINED IN EMERGENCY SPILL CLEANUP PROCEDURES PRESENT.

VEHICLE MAINTENANCE NOTES:

1. EQUIPMENT AND VEHICLES TRAVELING ONSITE SHALL BE INSPECTED REGULARLY FOR LEAKS AND BE REPAIRED IMMEDIATELY; DO NOT ALLOW LEAKING VEHICLES ONSITE. KEEP VEHICLES AND EQUIPMENT CLEAN (DO NOT ALLOW EXCESSIVE BUILDUP OF OIL AND GREASE).
2. USE OFFSITE REPAIR SHOPS WHENEVER POSSIBLE; IF ONSITE REPAIRS ARE NECESSARY, USE A DESIGNATED AREA SURROUNDED BY EARTH BERMS. THE CONTRACTOR SHALL INSPECT THIS AREA WEEKLY AND AFTER EACH RAINSTORM EVENT TO ENSURE THAT THE EARTH BERMS ARE IN PLACE AND FUNCTIONING PROPERLY; ANY NON-FUNCTIONING BERMS SHALL BE REPAIRED IMMEDIATELY.
3. USE DRY CLEAN-UP METHODS FOR SPILLS AS MUCH AS POSSIBLE; USE ABSORBENT MATERIALS FOR SMALL SPILLS AND DISPOSE OF PROPERLY. USE A SECONDARY CONTAINMENT DURING FLUID CHANGES AND REPAIRS TO CATCH SPILLS.
4. SEGREGATE AND RECYCLE WASTES (INCLUDING BUT NOT LIMITED TO: USED OIL AND OIL FILTERS, BATTERIES, ETC.). KEEP HAZARDOUS WASTES SEPARATE FROM NON-HAZARDOUS WASTES; AFTER REPAIRS, ETC., PROMPTLY TRANSFER USED FLUIDS AND WASTES TO THEIR PROPER CONTAINMENT AREAS AND CONTAINERS.

SUMMARY OF QUANTITIES:

ITEM	DESCRIPTION	PLAN QUANTITY TOTAL	UNIT
000	MOBILIZATION/ DEMOBILIZATION	1	LS
001	TEMPORARY FACILITIES	1	LS
002	PROPOSED GRADING ACTIVITY (CUT)	466.6	CY
003	PROPOSED GRADING ACTIVITY (FILL)	97.5	CY
004	6" CLASS 2 AGGREGATE BASE ROCK	120.2	CY
005	3" HOT MIX ASPHALT	60.1	CY
006	PROPOSED GRADE DISTURBED AREA	0.329	AC
007	PCC SIDEWALK	1,230	SF
008	PCC VERTICAL CURB	410	LF
009	PCC VALLEY GUTTER	136	LF
010	BOAT LAUNCH TRACK SYSTEM	1	LS
011	BOAT LAUNCH FOUNDATION SYSTEM	1	LS
012	BUILDING	1	LS
013	BUILDING FOUNDATION SYSTEM	1	LS
014			
015			
016			
017			
018			
019			
020			
021			
022			
023			
024			
025			

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING

NOTES

YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

DRAWING NO:
C00

1/2" 1" 2"

GRADING PLAN
1"=30'

0 30 60
SCALE IN FEET

N

1/2" 1" 2"

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING

EXISTING GRADING & DRAINAGE PLAN SITE 1

YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

DRAWING NO:
C01

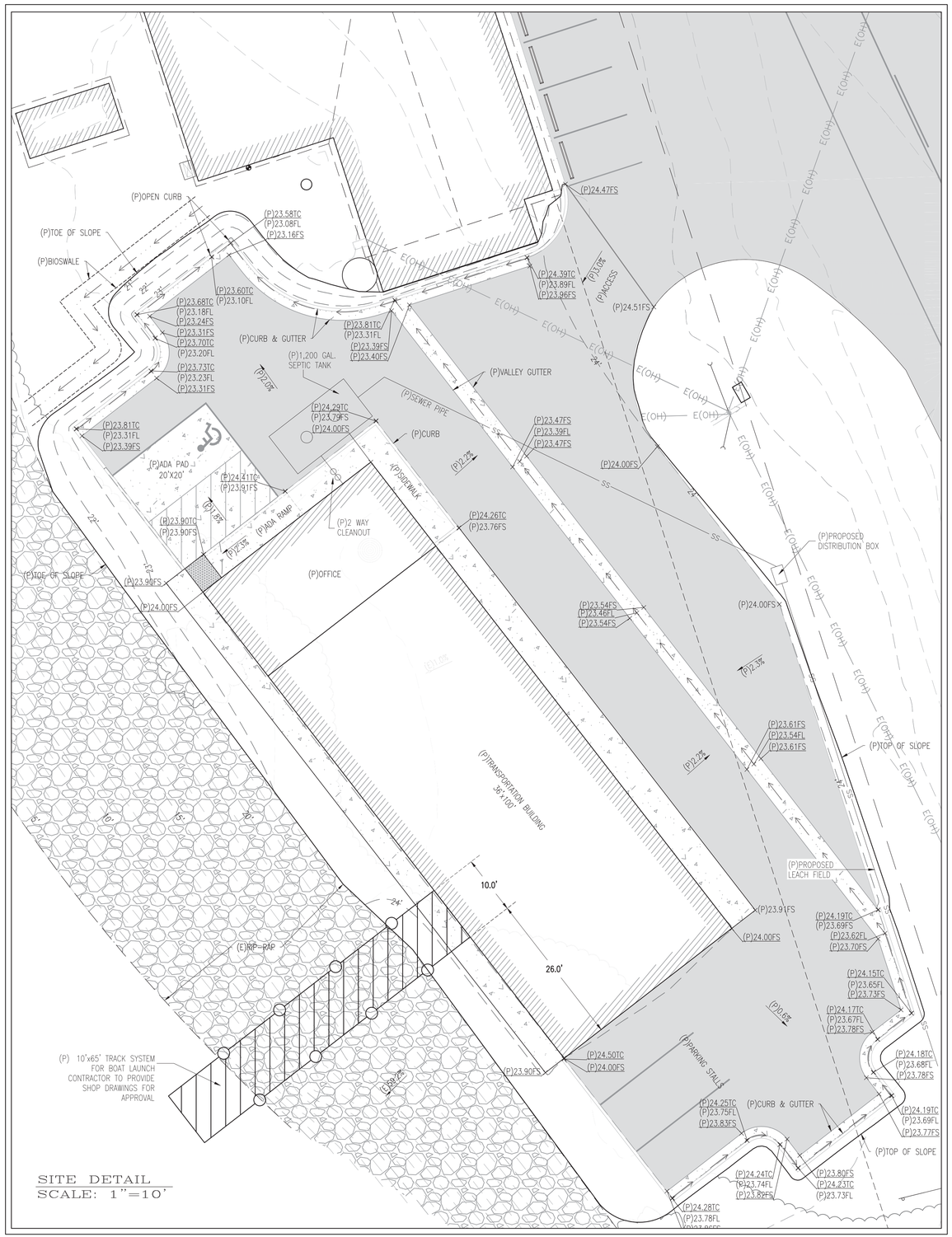
GENERAL NOTES

WATER: DIVERSION (TO BE REMOVED)
WASTEWATER: NONE
POWER: NONE
PHONE: NONE
CREEKS/STREAMS: KLAMATH RIVER
TREES TO BE REMOVED: NONE
GRADING: SEE GRADING PLAN

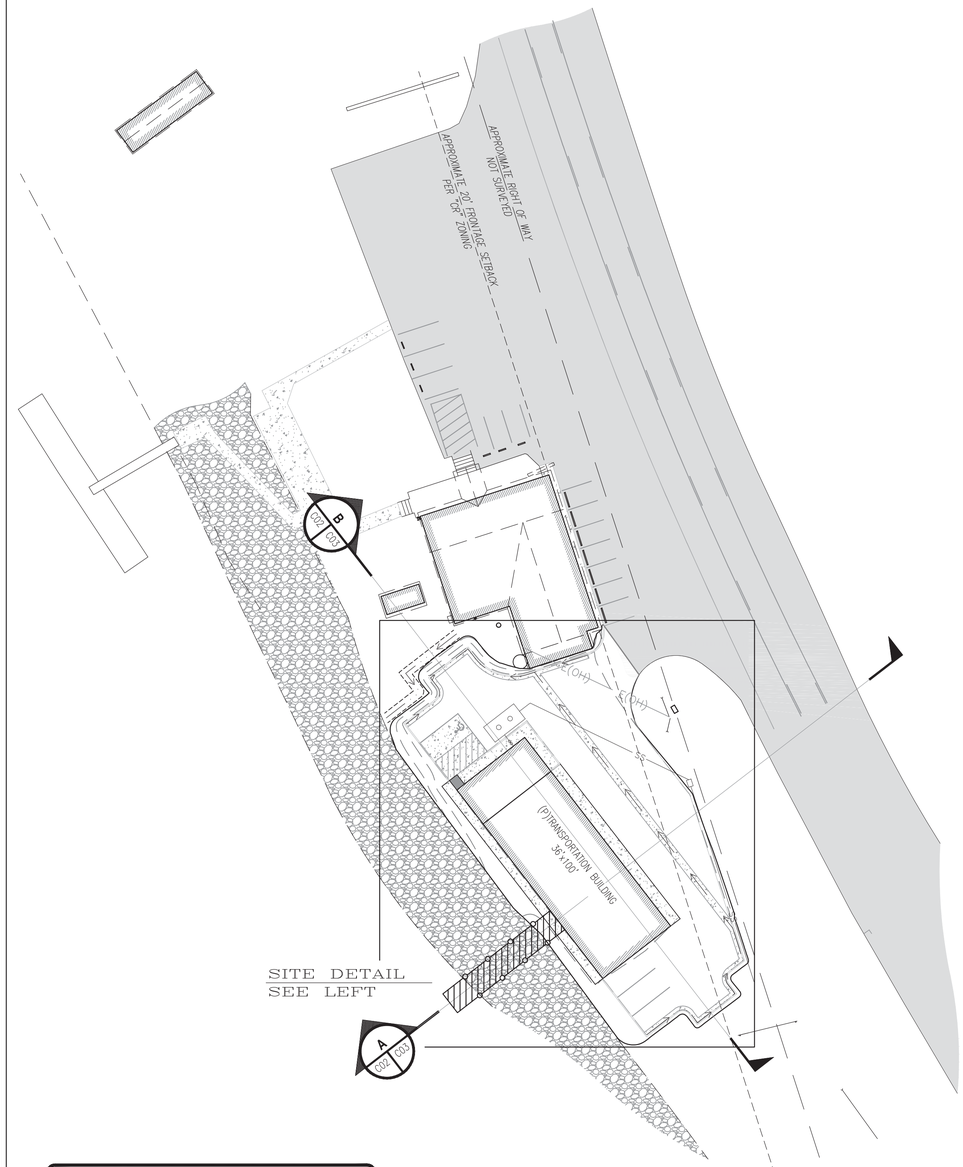
SRA REQUIREMENTS

PROVIDE ADEQUATE WATER STORAGE AND DELIVERY AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS

PROVIDE ADEQUATE TURN AROUND AND PULLOUTS AS OUTLINED BY SRA ORDINANCE REQUIREMENTS AND CALFIRE REQUIREMENTS



SITE DETAIL
SCALE: 1"=10'



SITE DETAIL
SEE LEFT

(P)EARTHWORK QUANTITIES:

CUT (CY):	466.6
FILL (CY):	97.5
6" CLASS 2 AGGREGATE BASE ROCK (CY):	120.2
3" HOT MIX ASPHALT (CY):	60.1
DISTURBED AREA (AC):	0.329

NOTE:
CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT

GRADING PLAN VIEW
1"=30'

0 30 60
SCALE IN FEET

N

PERMIT REQUIREMENT

PROJECTS OVER 1.0 ACRES OR THAT TAKE PLACE BETWEEN OCT 15TH AND APRIL 15TH REQUIRE A STATE CONSTRUCTION GENERAL PERMIT IN ADDITION TO OTHER REGULATORY PERMITS. STORM WATER POLLUTION PREVENTION PLANS (SWPP) ARE ALSO REQUIRED FOR PROJECTS OVER 1.0 ACRES

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING

PROPOSED GRADING & DRAINAGE PLAN SITE 1

YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

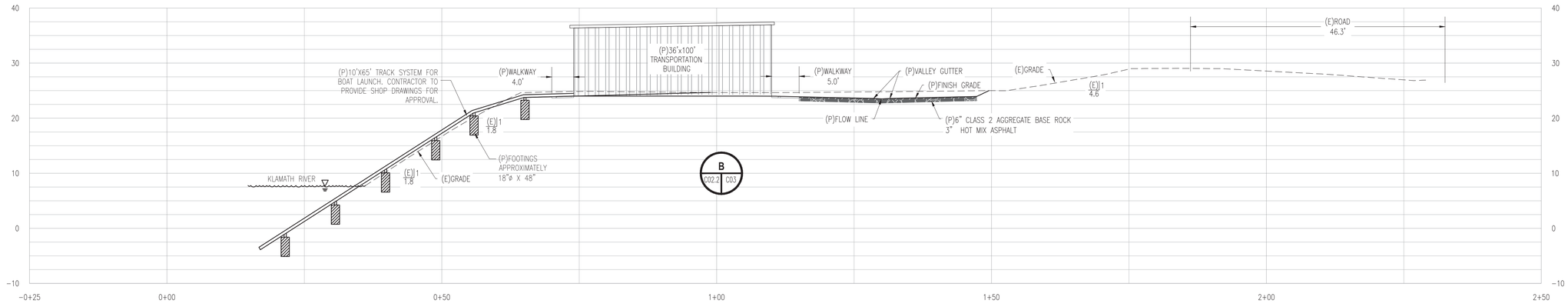
DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

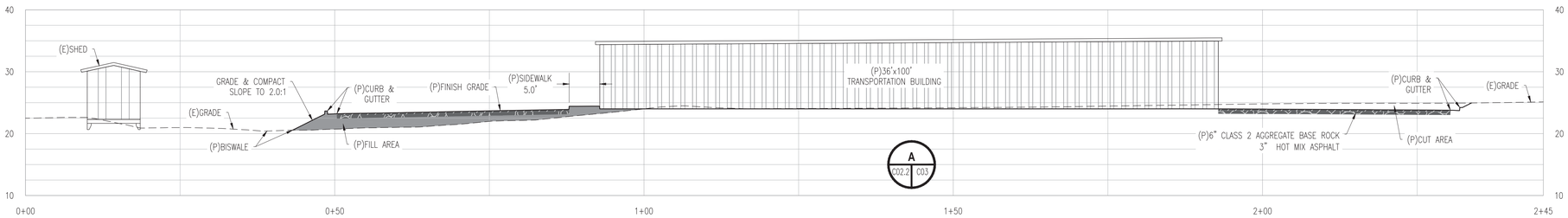
DRAWING NO:
C02

1/2" 1" 2"



SITE
SECTION
1":10'

A
C02.2 C03



SITE
SECTION
1":20'

B
C02.2 C03

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING

SITE SECTION

YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

DRAWING NO:
C03

1/2" 1" 2"

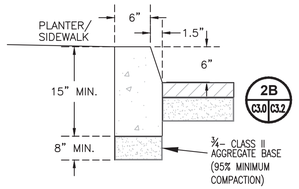
GRADING NOTES:

1. ALL EARTHWORK, INCLUDING BUT NOT LIMITED TO, SITE CLEARING, GRUBBING, STRIPPING, AND GRADING WILL BE CONDUCTED DURING DRY WEATHER CONDITIONS. (TYPICALLY APRIL 15 TO OCTOBER 15)
2. ANY UNDOCUMENTED FILL SOILS, FINE-GRAINED RESIDUAL SOILS, AND ANY OTHER DEBRIS ENCOUNTERED AT OR BELOW THE EXISTING GROUND SURFACE SHALL BE REMOVED AT THE LOCATIONS RECEIVING ANY POTENTIAL FILLS.
3. THE SITE SHOULD BE GRADED TO PROVIDE ADEQUATE DRAINAGE SUCH THAT NO WATER IS ALLOWED TO POND ANYWHERE ON THE SITE OR MIGRATE BENEATH FUTURE DEVELOPMENTS.
4. ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
5. ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3"ø, WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
6. ALL FILL MATERIAL SHALL HAVE A UNIFORM MOISTURE CONTENT AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
7. NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNYIELDING SURFACE AS APPROVED BY THE ENGINEER.
8. COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
9. IT IS RECOMMENDED THAT ANY MATERIAL PROPOSED FOR STRUCTURAL FILL MATERIAL TO SUPPORT ANY FOUNDATIONS OR STRUCTURAL BUILDING ELEMENT AND ASSOCIATED UTILITIES BE COMPACTED AS OUTLINED IN THE SOILS REPORT.
10. ALL FILL SLOPES SHALL BE TO A SMOOTH AND EVEN GRADE, SHALL BE SURFACE TRACKWALKED, AND FINAL GRADES NOT TO EXCEED 2:1 (h:v), WITHOUT ENGINEER APPROVAL.
11. SUFFICIENT TESTING AND INSPECTION SHOULD BE PERFORMED TO MONITOR THE SUITABILITY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.

CLEARING, GRUBBING, & DEMOLITION NOTES:

1. TREES SCHEDULED TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, BRANCHES, WOODY DEBRIS, BARK, AND FLESH. TREES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
2. VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
3. ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
4. ALL AREAS WITH GENERATED VOIDS FROM DEMOLITION ACTIVITIES SHALL BE BACKFILLED WITH NATIVE SOIL TO FINISH GRADE IN 1' MAXIMUM VERTICAL LIFTS SUFFICIENTLY COMPACTED TO ELIMINATE SUBSIDENCE.
5. DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
6. TRACKING OF MATERIAL FROM THE SITE ONTO EXISTING ROADWAYS WILL NOT BE TOLERATED. TEMPORARY CONSTRUCTION SITE ENTRANCES SHOULD BE BUILT AT POINTS OF INTERSECTION TO EXISTING ROADWAYS AND PRACTICES SHOULD BE IMPLEMENTED TO REMOVE CONSTRUCTION MATTER FROM VEHICLES AND EQUIPMENT PRIOR TO LEAVING THE CONSTRUCTION SITE.
7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR THE SITE AS SOON AS PRACTICAL AND SHALL BE IN PLACE PRIOR TO EXECUTION OF MAJOR DEMOLITION OPERATIONS.

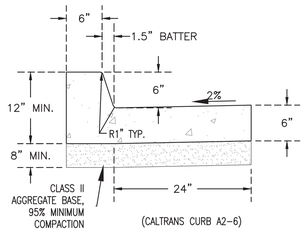
FILL PLACEMENT LOCATION	COMPACTION RECOMMENDATIONS (ASTM D 1557-MODIFIED PROCTOR)	MOISTURE CONTENT (PERCENT OPTIMUM)
STRUCTURAL FILL SUPPORTING FOOTING	90%	-1 TO +3 PERCENT
STRUCTURAL FILL SUPPORTING SLABS-ON-GRADE	90%	-1 TO +3 PERCENT
STRUCTURAL FILL PLACED WITHIN 3 FEET BEYOND THE PERIMETER OF THE BUILDING PAD	90%	-1 TO +3 PERCENT
UTILITY TRENCHES WITHIN BUILDING AND ANY PAVEMENT AREAS	95%	-1 TO +3 PERCENT
UTILITY TRENCHES BENEATH LANDSCAPE AND GRASS AREAS	90%	-1 TO +3 PERCENT



(CALTRANS CURB A1-6)

PCC VERTICAL CURB DETAIL 3 C3.0 C3.2

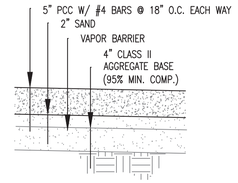
NOT TO SCALE



(CALTRANS CURB A2-6)

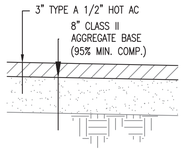
PCC VERTICAL CURB & GUTTER DETAIL 4 C3.0 C3.2

NOT TO SCALE



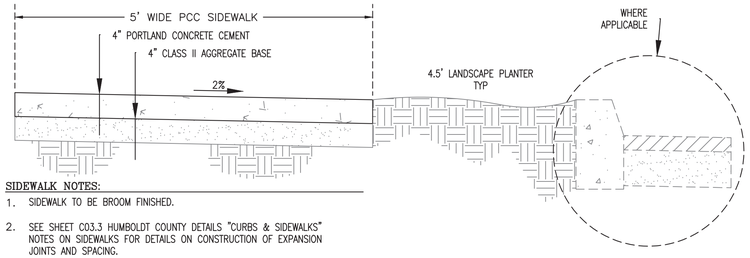
TYP PARKING PCC DETAIL 2A C3.0 C3.2

NOT TO SCALE



TYP ROAD HMA DETAIL 2B C3.0 C3.2

NOT TO SCALE

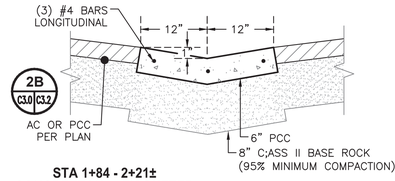


SIDEWALK NOTES:

1. SIDEWALK TO BE BROOM FINISHED.
2. SEE SHEET C03.3 HUMBOLDT COUNTY DETAILS "CURBS & SIDEWALKS" NOTES ON SIDEWALKS FOR DETAILS ON CONSTRUCTION OF EXPANSION JOINTS AND SPACING.

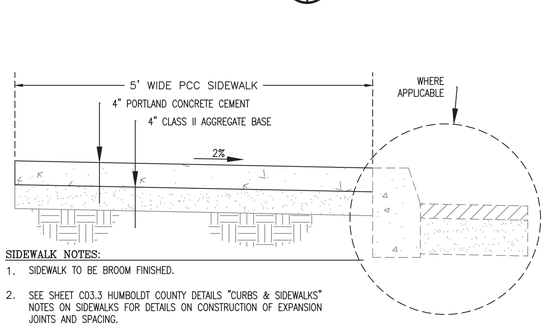
5' PCC SIDEWALK STA 0+00 - 5+52 DETAIL 6 C3.0 C3.2

NOT TO SCALE



STA 1+84 - 2+21± CONCRETE VALLEY GUTTER DETAIL 5 C3.0 C3.2

NOT TO SCALE

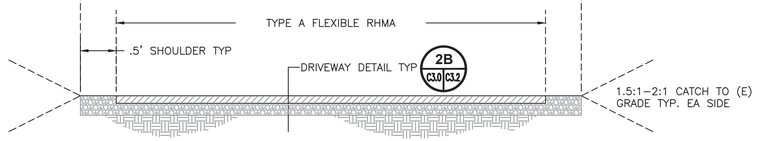


SIDEWALK NOTES:

1. SIDEWALK TO BE BROOM FINISHED.
2. SEE SHEET C03.3 HUMBOLDT COUNTY DETAILS "CURBS & SIDEWALKS" NOTES ON SIDEWALKS FOR DETAILS ON CONSTRUCTION OF EXPANSION JOINTS AND SPACING.

5' PCC SIDEWALK STA 5+52 - 7+03 DETAIL 10 C3.0 C3.2

NOT TO SCALE

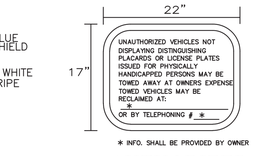


DRIVEWAY NOTES:

1. PAVEMENT TO BE FLEXIBLE RUBBERIZED HOT MIX ASPHALT (RHMA-G) PER CALTRANS STD SPECS SECTION 39.
2. AGGREGATE BASE TO BE 3/4"- CLASS 2 PER CALTRANS STD SPECS SECTION 26.

DRIVEWAY TYP DETAIL 7 C3.0 C3.2

NOT TO SCALE

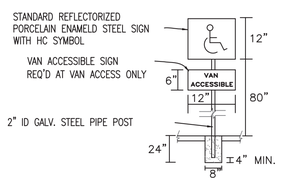


HANDICAP SYMBOL

NTS

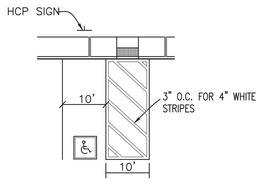
AUTHORIZED VEHICLE SIGN

NTS



HCP SIGN

NTS



HANDICAP PARKING

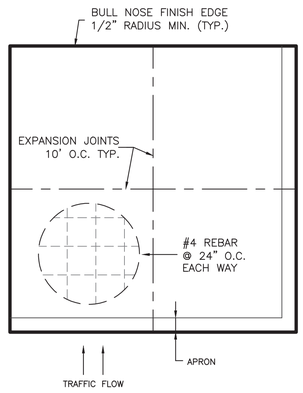
NTS

HANDICAP PARKING DETAIL 8 C3.0 C3.3

NOT TO SCALE

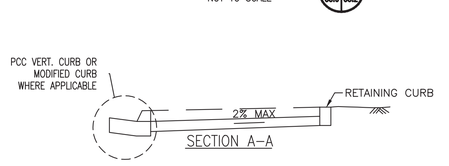
ADA CONCRETE PARKING DETAIL 9 C3.0 C3.3

NOT TO SCALE



ADA CONCRETE PARKING NOTES:

1. PARKING & LOAD/UNLOAD ZONE TO BE 6" THICK P.C.C. (3,000 PSI MIN.). CONTRACTOR TO SUBMIT MIX DESIGN AND RECEIVE ACCEPTANCE APPROVAL PRIOR TO PLACEMENT.
2. PLACE 6" MIN. THICK CLASS 2, ¾"- A.B. UNDER PAD. 95% MIN. COMPACTION.
3. REBAR TO BE EMBEDDED 3" MIN. FROM EDGES.
4. CONCRETE TO BE BROOM FINISHED.
5. CONSTRUCT EXPANSION JOINTS IN CONCRETE SURFACE AS INDICATED.
6. EXPANSION JOINTS TO BE WET SET OR SAWCUT.
7. FILL EXPANSION JOINT WITH FLEXIBLE EPOXY SEALANT.



DETECTABLE WARNING SURFACE DETAIL 12 C3.0 C3.2

NOT TO SCALE

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER ERIC E. KEYES C 90533 EXP. 12/31/2027 CIVIL STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING

GRADING DETAILS

YUROK TRIBE TRANSPORTATION DEPARTMENT KLAMATH, CA

DATE OF ISSUE: SEPTEMBER 2024

SCALE: AS SHOWN

PROJECT NO: 484_2022.03

DRAWING NO: C04

1/2" 1" 2"

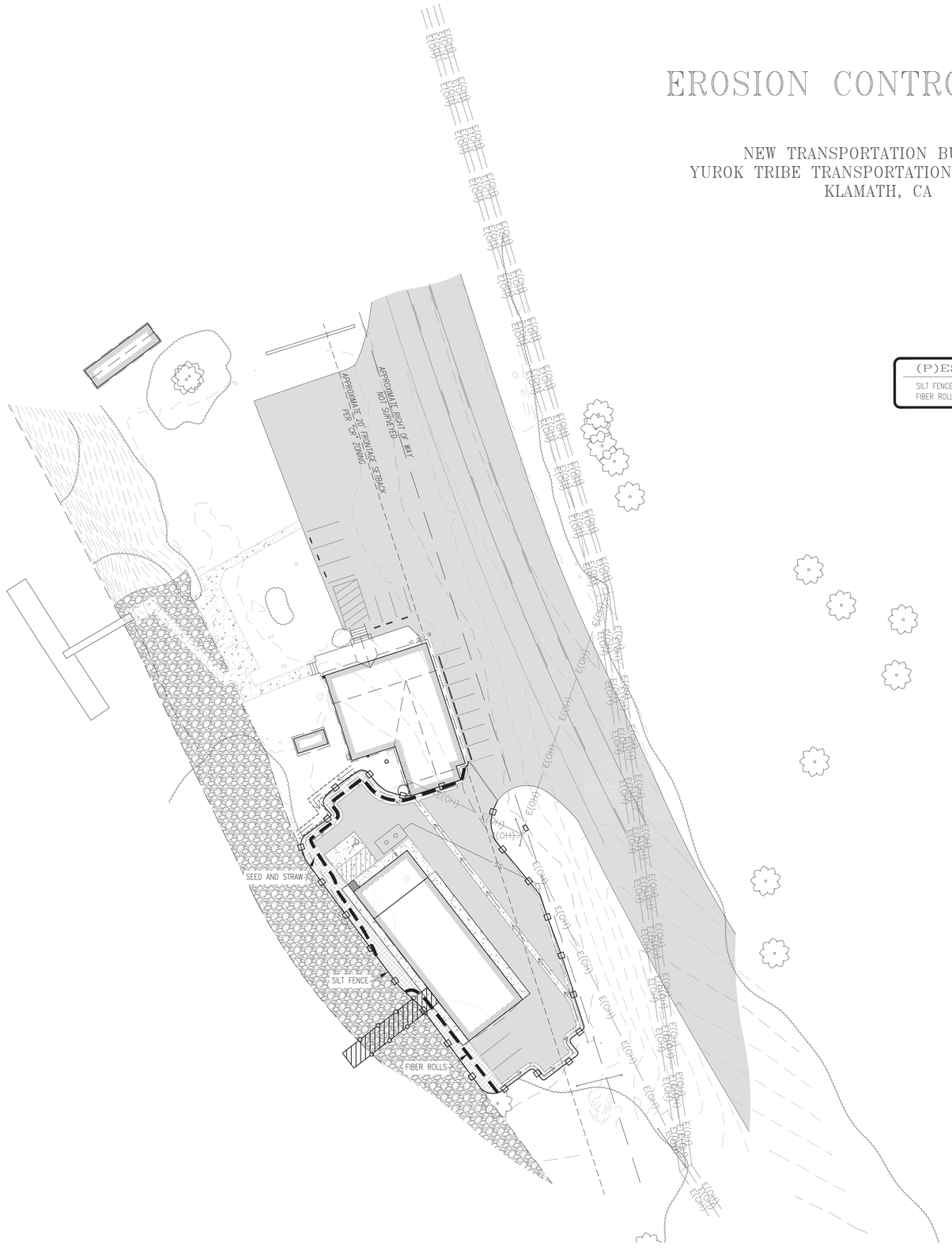
EROSION CONTROL PLAN

NEW TRANSPORTATION BUILDING
YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

EROSION CONTROL PLAN
1"=30'

0 30 60
SCALE IN FEET

- N -



LEGEND:

- ONSITE OVERLAND RELEASE PATH
- OFFSITE OVERLAND RELEASE PATH
- STRAW/FIBER ROLLS
- SILT FENCE
- SEED AND STRAW

(P)ESTIMATE LINEAR FEET:

SILT FENCE (LF):	505
FIBER ROLLS (LF):	260

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KETES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING
EROSION CONTROL PLAN
YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

DRAWING NO:
C05.1

1/2" 1" 2"

STRAW MULCH NOTES:

1. STRAW SHALL BE DERIVED FROM WHEAT, RICE, OR BARLEY. WHERE REQUIRED BY THE PLANS, SPECIFICATIONS, PERMITS, OR ENVIRONMENTAL DOCUMENTS, NATIVE GRASS STRAW SHALL BE USED.
2. A TACKIFIER IS THE PREFERRED METHOD FOR ANCHORING STRAW MULCH TO THE SOIL ON SLOPES.
3. CRIMPING, PUNCH ROLLER–TYPE ROLLERS, OR TRACK WALKING MAY ALSO BE USED TO INCORPORATE STRAW MULCH INTO THE SOIL ON SLOPES. TRACK WALKING SHALL ONLY BE USED WHERE OTHER METHODS ARE IMPRACTICAL.
4. AVOID PLACING STRAW ONTO ROADS, SIDEWALKS, DRAINAGE CHANNELS, SOUND WALLS, EXISTING VEGETATION, ETC.
5. STRAW MULCH WITH TACKIFIER SHALL NOT BE APPLIED DURING OR IMMEDIATELY BEFORE RAINFALL.
6. APPLY STRAW AT A MINIMUM RATE OF 4,000 LB/ACRE, EITHER BY MACHINE OR BY HAND DISTRIBUTION.
7. ROUGHEN EMBANKMENTS AND FILL RILLS BEFORE PLACING THE STRAW MULCH BY ROLLING WITH A CRIMPING OR PUNCHING TYPE ROLLER OR BY TRACK WALKING.
8. EVENLY DISTRIBUTE STRAW MULCH ON THE SOIL SURFACE.
9. ON SMALL AREAS, A SPADE OR SHOVEL CAN BE USED TO PUNCH IN STRAW MULCH.
10. ON SLOPES WITH SOILS THAT ARE STABLE ENOUGH AND OF SUFFICIENT GRADIENT TO SAFELY SUPPORT CONSTRUCTION EQUIPMENT WITHOUT CONTRIBUTING TO COMPACTION AND INSTABILITY PROBLEMS, STRAW CAN BE "PUNCHED" INTO THE GROUND USING A KNIFE BLADE ROLLER OR A STRAIGHT BLADED COULTER, KNOWN COMMERCIALLY AS A "CRIMPER".
11. ON SMALL AREAS AND/OR STEEP SLOPES, STRAW CAN ALSO BE HELD IN PLACE USING JUTE. THE NETTING SHALL BE HELD IN PLACE USING 11 GAUGE WIRE STAPLES, GEOTEXTILE PINS OR WOODEN STAKES AS DESCRIBED IN EC–7, GEOTEXTILES AND MATS.
12. TACKIFIER ACTS TO GLUE THE STRAW FIBERS TOGETHER AND TO THE SOIL SURFACE. THE TACKIFIER SHALL BE SELECTED BASED ON LONGEVITY AND ABILITY TO HOLD THE FIBERS IN PLACE. A TACKIFIER IS TYPICALLY APPLIED AT A RATE OF 125 LB/ACRE. IN WINDY CONDITIONS, THE RATES ARE TYPICALLY 180LB/ACRE.

EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). SEDIMENT CONTROL BMP'S SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
2. ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREA AND WITHIN THE WORK AREA SHALL BE PROTECTED WITH SEDIMENT CONTROL AND INLET FILTER BAGS, YEAR ROUND.
3. ALL STABILIZED CONSTRUCTION ACCESS LOCATIONS SHALL BE CONSTRUCTED PER STANDARD DRAWING TC–1 WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES PAVED AREAS. THE STABILIZED ACCESS SHALL BE MAINTAINED ON A YEAR–ROUND BASIS UNTIL THE COMPLETION OF CONSTRUCTION.
4. ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). HYDROSEED, IF UTILIZED, MUST BE PLACED BY SEPTEMBER 15. HYDROSEED PLACED DURING THE WET SEASON SHALL USE A SECONDARY EROSION PROTECTION METHOD.
5. SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMP'S SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
6. SEDIMENT CONTROL BMP'S SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED YEAR–ROUND UNTIL THE CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
7. ALL SLOPES GREATER THAN 1:1 SHALL RECEIVE SEED AND STRAW OR OTHER EROSION CONTROL.
8. ALL FENCING AND EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT ALL ON–SITE CONSTRUCTION ACTIVITIES.
9. ALL BMPS SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY ANTICIPATED STORM EVENT.

GENERAL WATER POLLUTION CONTROL NOTES:

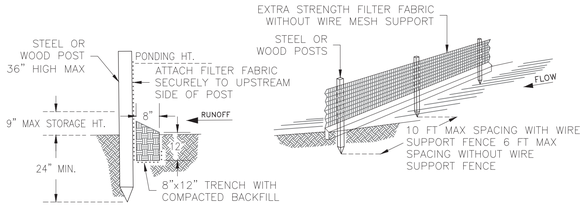
1. THE INFORMATION ON THESE DRAWINGS ARE ACCURATE FOR WATER POLLUTION CONTROL PURPOSES ONLY.
2. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO INSTALL WATER POLLUTION CONTROL DEVICES AT GENERAL LOCATION THROUGHOUT THE SITE. THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE NARRATIVE SECTION OF THE WATER POLLUTION CONTROL PLAN.
3. FIELD CONDITIONS MAY NECESSITATE MODIFICATION TO THESE DRAWINGS.
4. PERMANENT EROSION CONTROL AND REVEGETATION WILL BE INSTALLED AS AREAS ARE DETERMINED TO BE SUBSTANTIALLY COMPLETE AND PER THE SPECIFICATIONS.
5. All BMPs WILL BE FIELD–VERIFIED AND APPROVED FOR INSTALLATION BY THE RE. ALL BMPs WILL BE INSTALLED ACCORDING TO THE STANDARD PLANS AND SPECIFICATIONS UNLESS APPROVED BY THE RE AND AMENDED INTO THE WPCP.

BMP MAINTENANCE NOTES:

1. ALL OF THE IMPLEMENTED BMPS SHALL BE INSPECTED AND CORRECTED AS NEEDED PRIOR TO, DURING, AND DIRECTLY FOLLOWING ANY STORM EVENT, OR WHENEVER PRACTICAL.

BMP INSTALLATION SCHEDULE

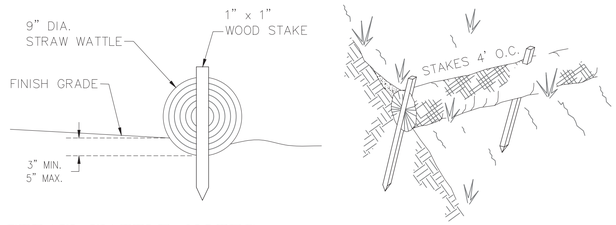
PHASE OF CONSTRUCTION	EROSION AND SEDIMENT CONTROL MEASURES										
	(WET SEASON)		(WET AND DRY SEASON)								
	HYDROSEEDING / MULCHING	PRESERVATION OF EXISTING VEGETATION	STRAW / FIBER ROLLS	STORM DRAIN INLET PROTECTION	TEMP. SEDIMENT TRAP	STABILIZED CONSTRUCTION ENTRANCE	CONTRACTOR EQUIPMENT CONTROLS	MATERIAL & WASTE DISPOSAL LOCATION	DUST CONTROL	DEWATERING OPERATIONS	CONCRETE WASHOUT
PRE–GRADING	●	●	●			●	●	●	●		●
CUT AND FILL ACTIVITIES				●	●					●	
UNDERGROUND WORK											
STORM DRAIN IMPROVEMENTS											
OFFSITE IMPROVEMENTS				●							
COMPLETION OF PAVING											
POST–GRADING	●	●									



SILT FENCE NOTES:

1. THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
2. CONTRACTOR SHALL REMOVE SEDIMENT AS NECESSARY. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF–SITE AND IN AN AREA THAT CAN BE PERMANENTLY STABILIZED.
3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

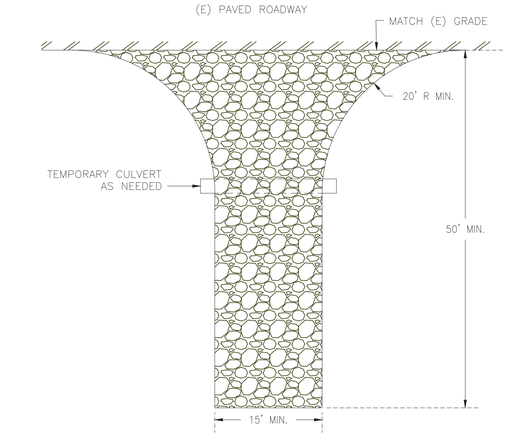
SILT FENCE DETAILS
NTS



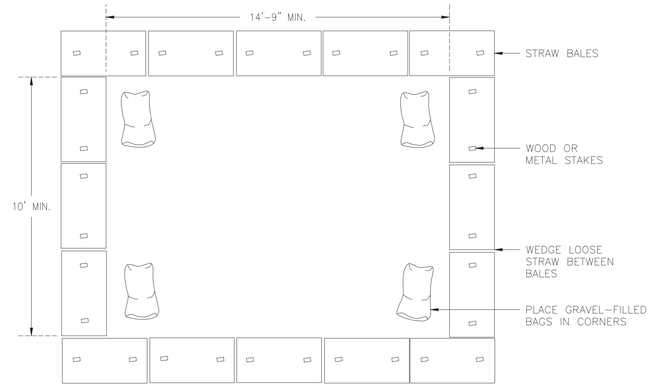
STRAW WATTLE NOTES:

1. STRAW WATTLES SHALL BE INSTALLED WITH 18 OR 24 INCH WOOD STAKES AT FOUR FEET ON CENTER. THE ENDS OF ADJACENT STRAW WATTLES SHALL BE ABUTTED TO EACH OTHER SNUGLY OR OVERLAPPED BY SIX INCHES.
2. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3"–5" DEEP. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND THE ROLL.

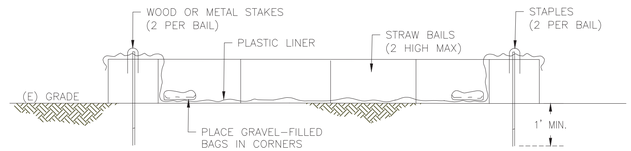
STRAW WATTLE INSTALLATION DETAIL
NTS



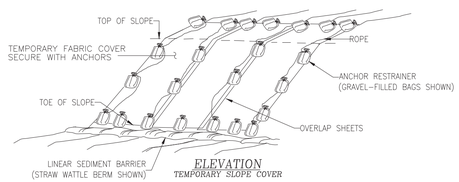
STABILIZED CONSTRUCTION ENTRANCE
NTS



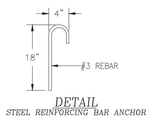
PLAN
TEMPORARY CONCRETE WASHOUT FACILITY
NTS



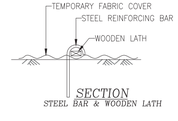
PROFILE
TEMPORARY CONCRETE WASHOUT FACILITY
NTS



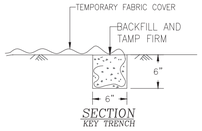
ELEVATION
TEMPORARY SLOPE COVER



DETAIL
STEEL REINFORCING BAR ANCHOR

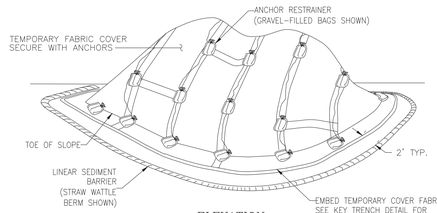


SECTION
STEEL BAR & WOODEN LATH

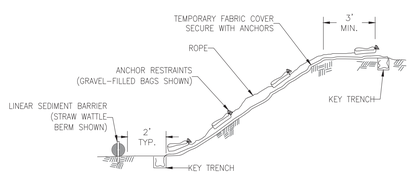


SECTION
KEY TRENCH

TEMPORARY GEOTEXTILE COVERS
NTS



ELEVATION
TEMPORARY STOCKPILE COVER



SECTION
TEMPORARY COVER

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629–3000
F:(530)629–3011

REGISTERED PROFESSIONAL ENGINEER — ERIC E. KETES — C 90533 — EXP. 12/31/2027 — CIVIL — STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHK BY	APP BY

NEW TRANSPORTATION BUILDING

EROSION CONTROL DETAILS

YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE: SEPTEMBER 2024
SCALE: AS SHOWN
PROJECT NO: 484_2022.03
DRAWING NO: C05.2

1/2" 1" 2"

Dewatering Operations NS-2

Standard Symbol

BMP Objectives

Soil Stabilization	☐
Sediment Control	☐
Tracking Control	☐
Wind Erosion Control	☐
Non-Stormwater Management	☑
Materials and Waste Management	☐

Definition and Purpose

Dewatering Operations are practices that manage the discharge of pollutants when non-stormwater and accumulated precipitation (stormwater) must be removed from a work location so that construction work may be accomplished.

Appropriate Applications

These practices are implemented for the collection and discharge of non-stormwater and stormwater (accumulated rain water) from excavations or temporary containment facilities. Non-stormwater includes, but is not limited to, groundwater, dewatering of piles, water from cofferdams, water diversions, and water used during construction activities that must be removed from a work area.

Practices identified in this section are also appropriate for implementation when managing the removal of accumulated precipitation (stormwater) from depressed areas at a construction site.

Stormwater mixed with non-stormwater should be managed as non-stormwater.

Limitations

Dewatering operations for non-stormwater will require, and must comply with, applicable local permits, project-specific permits, and regulations.

Site conditions will dictate design and use of dewatering operations.

Avoid dewatering discharges where possible by infiltrating, reusing the water for dust control, etc.

Dewatering Operations NS-2

Refer to the applicable project dewatering and/or stormwater permit for monitoring and sampling forms and requirements.

Maintenance and Inspection

Inspect dewatering operation areas at least weekly, prior to a forecasted rain event, daily during extended rain events and post-storm events.

Accumulated sediment removed during the maintenance of a dewatering device may be disposed of outside the right-of-way in conformance with Standard Specifications Section 14-10 Solid Waste Disposal and Recycling.

Accumulated sediment that is commingled with other pollutants must be disposed of in accordance with all applicable laws and regulations.

The WPC Manager must take immediate action to prevent non-stormwater discharges from being discharged.

SWPPP or WPCP

Dewatering Operations must be discussed in Section 500.4.1 of SWPPP and specific sample collection, collection and parameters in Section 700.2.3.1 if required by a specific RWQCB Dewatering Permit or Section 30.3.1 of the WPCP.

Dewatering Operations NS-2

Standards and Specifications

General Requirements

Dewatering shall be conducted in accordance with the Caltrans Field Guide to Construction Site Dewatering Manual and Standard Specification Section 13-4.03G.

A dewatering and discharge work plan shall be submitted at least 15 days before the start of dewatering activities detailing the location of dewatering and discharge activities, quantity of water, equipment, and discharge point. The dewatering and discharge work plan must conform to Standard Specifications Section 13-4.01C.

Dewatering discharges must not cause erosion, scour, or sedimentation that could impact natural bedding materials.

Discharge the water within the project limits. Dispose of the water if it cannot be discharged within project limits due to site constraints or contamination.

Do not discharge stormwater or non-stormwater that has an odor, discoloration other than sediment, an oily sheen, or foam on the surface. Immediately notify the RE upon discovering any such condition.

The RWQCB may require a separate NPDES permit for a dewatering operation. These permits will have specific testing, monitoring, and discharge requirements.

Discharges must comply with regional and watershed-specific discharge requirements.

Additional permits or permissions from other agencies may be required for dewatering cofferdams or diversions.

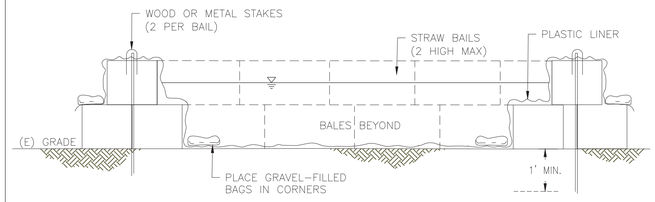
Dewatering records shall be kept with the SWPPP or WPCP and maintained for a minimum of 3 years after the construction project is terminated.

The controls discussed in this BMP address sediment only. If the presence of polluted water with hazardous substances is identified in the contract, the contractor shall implement dewatering pollution controls as required by the contract documents. If the quality of water to be removed by dewatering is not identified as polluted in the contract documents, but is later determined by observation or testing to be polluted, the contractor shall notify the RE and comply with Standard Specifications Section 4-1.06, "Differing Site Conditions."

Sediment Treatment

A variety of methods can be used to treat water during dewatering operations from the construction site. The size of particles present in the sediment and/or RWQCB Dewatering Permit or receiving water limitations on sediment are key considerations for selecting sediment treatment option(s); in some cases, the use of multiple devices may be appropriate.

Refer to the Sediment Treatment Options described in Appendix B of the Field Guide to Construction Site Dewatering to determine the optimal method to achieve sediment removal.



PROFILE
TEMPORARY WATER ENCLOSURE FACILITY
NTS

GENERAL NOTES:

1. WHERE WORKING AREAS ENCROACH ON LIVE STREAMS, BARRIERS ADEQUATE TO PREVENT THE FLOW OF MUDDY WATER INTO STREAMS SHALL BE CONSTRUCTED AND MAINTAINED BETWEEN WORKING AREAS AND STREAMS. DURING CONSTRUCTION OF THE BARRIERS, MUDDYING OF THE STREAMS SHALL BE HELD TO A MINIMUM.
2. WHEN ANY ARTIFICIAL OBSTRUCTION IS BEING CONSTRUCTED, MAINTAINED, OR PLACED IN OPERATION, SUFFICIENT WATER SHALL BE ALLOWED TO PASS DOWNSTREAM TO MAINTAIN AQUATIC LIFE DOWNSTREAM.
3. DISTURBANCE OR REMOVAL OF VEGETATION SHALL NOT EXCEED THE MINIMUM NECESSARY TO COMPLETE OPERATIONS.
4. DISTURBED VEGETATION SHALL BE REPLACED WITH THE APPROPRIATE SOIL STABILIZATION MEASURES.
5. CONSTRUCT DIVERSION STRUCTURES WITH MATERIALS FREE OF POTENTIAL POLLUTANTS SUCH AS SOIL, SILT, SAND, CLAY, GREASE, OR OIL.

SITE CONSTRUCTION NOTES:

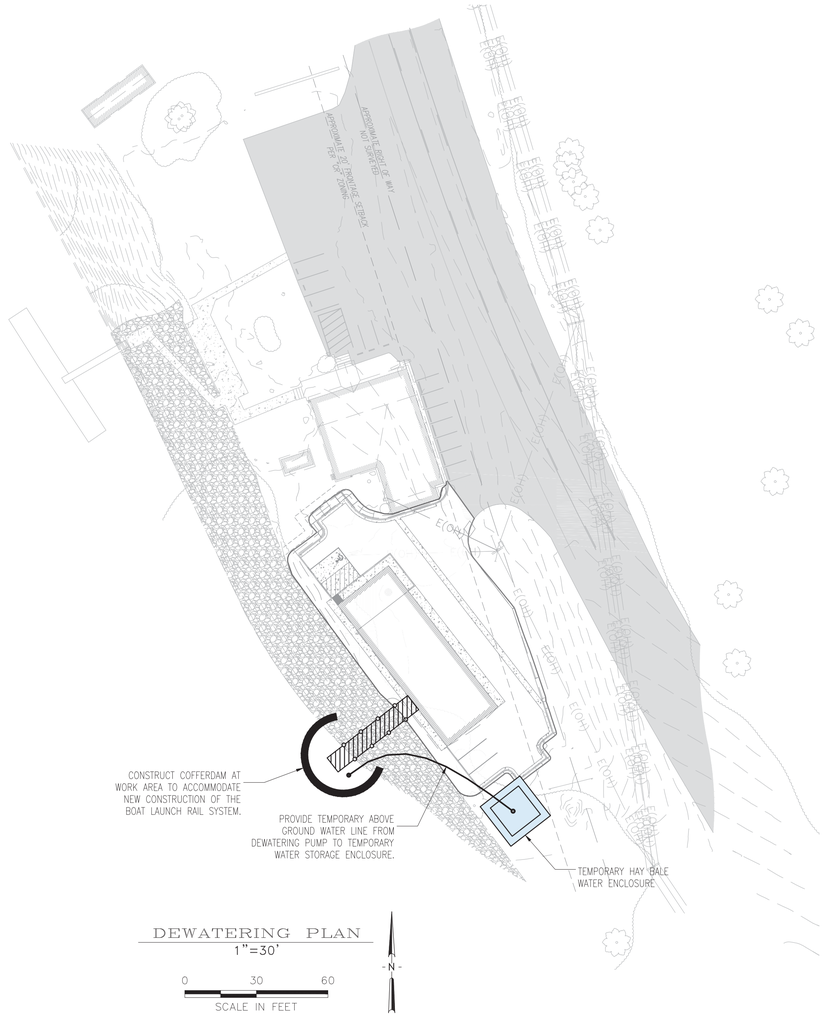
1. INSTALL DEWATERING EQUIPMENT BEFORE CONSTRUCTION AND EARTHMOVING ACTIVITIES BEGINS.
2. TEMPORARY PUMP SHALL BE ADEQUATELY SIZED TO ADEQUATELY DRAIN THE WORK AREA.
3. PUMPS SHALL BE PLACED ON A FIRM AND LEVEL SURFACE.
4. PUMPS SHALL BE PLACED IN A SECONDARY CONTAINMENT TRAY TO CATCH ENGINE DRIPS. ELECTRIC PUMPS DO NOT REQUIRE SECONDARY CONTAINMENT.
5. PLACE DEWATERING EQUIPMENT OUTSIDE OF THE ANTICIPATED WORK AREA TO AVOID CONFLICTS AND UNWANTED CONTAMINANTS FROM ENTERING THE WATER COURSE.
6. CONSTRUCT THE PROJECT PER THE APPROVED CONSTRUCTION PLANS.
7. UPON COMPLETION OF WORK, REMOVE THE DEWATERING EQUIPMENT.
8. RESTORE THE STREAM CHANNEL AND DISTURBED AREAS TO NATURAL CONDITION.

INSPECTION & MAINTENANCE NOTES:

1. INSPECT DIVERSIONS/ ENCROACHMENT STRUCTURES BEFORE AND AFTER SIGNIFICANT STORMS, AND AT LEAST ONCE PER WEEK WHILE IN SERVICE. INSPECT DAILY DURING CONSTRUCTION PRACTICES.
2. INSPECT EMBANKMENTS AND DIVERSION CHANNELS BEFORE AND AFTER SIGNIFICANT STORMS, AND AT LEAST ONCE PER WEEK WHILE IN SERVICE FOR DAMAGE TO THE LININGS, ACCUMULATING DEBRIS, SEDIMENT BUILDUP, AND ADEQUACY OF THE SLOPE PROTECTION. REMOVE DEBRIS AND REPAIR LININGS AND SLOPE PROTECTION AS REQUIRED. REPAIR HOLES, GAPS, OR SCOUR.
3. SAMPLING FOR WATER QUALITY SHALL BE PERFORMED PER THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE.
4. ALL OF THE IMPLEMENTED BMPS SHALL BE INSPECTED AND CORRECTED AS NEEDED PRIOR TO, DURING, AND DIRECTLY FOLLOWING ANY STORM EVENT.

SITE CONSTRUCTION NOTES:

1. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S) SHALL BE INSTALLED AND MAINTAINED DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 30). SEDIMENT CONTROL BMP'S SHALL BE INSTALLED AND MAINTAINED ALL YEAR.
2. ALL DRAINAGE INLETS IMMEDIATELY DOWNSTREAM OF THE WORK AREA AND WITHIN THE WORK AREA SHALL BE PROTECTED WITH SEDIMENT CONTROL PRACTICES AND/OR INLET FILTER BAGS, YEAR ROUND.
3. ALL AREAS DISTURBED DURING CONSTRUCTION, BY GRADING, TRENCHING, OR OTHER ACTIVITIES, SHALL BE PROTECTED FROM EROSION DURING STORM EVENTS AND THE WET SEASON.
4. SENSITIVE AREAS AND AREAS WHERE EXISTING VEGETATION IS BEING PRESERVED SHALL BE PROTECTED WITH CONSTRUCTION FENCING. SEDIMENT CONTROL BMP'S SHALL BE INSTALLED WHERE ACTIVE CONSTRUCTION AREAS DRAIN INTO SENSITIVE OR PRESERVED VEGETATION AREAS.
5. SEDIMENT CONTROL BMP'S SHALL BE PLACED ALONG THE PROJECT PERIMETER WHERE DRAINAGE LEAVES THE PROJECT. SEDIMENT CONTROL BMP'S SHALL BE MAINTAINED YEAR-ROUND UNTIL THE CONSTRUCTION IS COMPLETE OR THE DRAINAGE PATTERN HAS BEEN CHANGED AND NO LONGER LEAVES THE SITE.
6. ALL SLOPES GREATER THAN 10:1 SHALL RECEIVE HYDROSEEDING OR OTHER EROSION CONTROL.
7. ALL FENCING AND EROSION CONTROL METHODS SHALL BE MAINTAINED THROUGHOUT ALL ON-SITE CONSTRUCTION ACTIVITIES.
8. ALL BMPS SHALL BE INSTALLED AND FUNCTIONING PRIOR TO ANY ANTICIPATED STORM EVENT.



DEWATERING PLAN
1"=30'

0 30 60
SCALE IN FEET

N

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
P:(530)629-3000
F:(530)629-3011

REGISTERED PROFESSIONAL ENGINEER
ERIC E. KEYES
C 90533
EXP. 12/31/2027
CIVIL
STATE OF CALIFORNIA

REV	DATE	DESCRIPTION	DWN BY	CHKD BY	APP BY

NEW TRANSPORTATION BUILDING
DEWATERING PLAN
YUROK TRIBE TRANSPORTATION DEPARTMENT
KLAMATH, CA

DATE OF ISSUE:
SEPTEMBER 2024

SCALE:
AS SHOWN

PROJECT NO:
484_2022.03

DRAWING NO:
C06

1/2" 1" 2"

QUESTIONS AND ANSWERS

Questions / Answers
Klamath Transportation Building and Boat Launch Project

Q) What is "CPF" on lighting plans?
A) CPF = was supposed to be Compact Florescent Light (typo). Regardless, the lighting schedule has been revised to LED.

Q) Fluorescent lighting is shown on lighting plans, Sheet E200 and E201. Fluorescent lighting is not really available for sale in California anymore. Is LED lighting acceptable?
A) Yes, LED fixtures are an appropriate substitution.

Q) Are there lighting specs available, or should this project be bid with a lighting allowance, subject to Change Work Order based on final selections?
A) Lighting is a design-build responsibility. The Contractor shall design and install all electrical systems in compliance with the CBC and CEC. No change order will be issued for Contractor-designed systems.

Q) Is there a panel schedule?
A) No. Electrical is design-build by the Contractor.

Q) Is there a new service being installed as part of this project?
A) Yes. Include pricing under Bid Item “W” – Site Utilities.

Q) Is this in the EC's Scope of Work for this Project?
A) Scope allocation is between the Prime Contractor and its Electrical Subcontractor.

Q) Where is the new service panel located?
A) Design-build. Contractor shall coordinate with the serving utility to determine meter and service location.

Q) What size and phase is the new service?
A) Design-build. Contractor shall size service in coordination with the serving utility. Anticipated range is 200–400 Amp.

Q) Is new service overhead or underground?
A) Because of site limitations, we anticipate an underground service.

Q) Has the Project Owner begun the PG&E application process, or will that be in the EC's Scope of Work?
A) The serving utility is Pacific Power (not PG&E). Contractor is responsible for coordination.

Q) Where will the sub panel be located in the building?
A) Design-build. Contractor shall coordinate location with the Prime Contractor. Panels must comply with CEC accessibility and clearance requirements.

Q) There are no special purpose receptacles shown on the plans for kitchen, i.e., range, refrigerator, dishwasher, etc. Are there any required?
A) Per CBC and CEC, provide dedicated circuits for refrigerator and microwave. No range or dishwasher is included.

Q) Is the refrigerator contractor or owner supplied:
A) Contractor supplied.

Q) On E200 it shows some devices in the middle of the garage area. Is there going to be a wall there or are they floor or ceiling devices?
A) See revised Sheet E200. Devices have been relocated to the adjacent wall.

Q) Are there any required exit signs? Will they require battery backup illumination lights?
A) Yes. Per CBC and CEC, provide illuminated exit signs with battery backup at required exits.

Q) Are any lighting fixtures required to have battery backup?
A) Yes. All required exit signage shall include battery backup.

Q) Are there bath fans in the bathrooms? Are there specs for them?
A) Yes. Per CMC, toilet rooms shall have intermittent exhaust ventilation sized per CMC Table 403. Per California Energy Code, fans shall include automatic shutoff controls. If total exhaust exceeds 300 CFM, makeup air must be included in the Contractor's design-build.

Q) Is MC cable acceptable for wiring, or is EMT conduit required?
A) MC cable is acceptable in dry, concealed locations. EMT is required for exposed or surface-mounted installations.

Q) Is there any site utilities, or exterior lighting for this project?
A) Yes. Bid Item "W" includes site utilities. Exterior lighting shall meet building plan minimums (at exits, roll-up doors, and covered walkways) and comply with CBC and CEC. Final layout is design-build.

Q) Will you be providing a letter of subrogation for this project? The bonding companies require one for us to bond the project.
A) Refer to the project contract documents and insurance requirements. Coordinate bonding requirements with the Owner.

Q) Has any work been done on contacting/planning with the electrical utility or is that all the contractors responsibility?
A) Contractor responsibility.

Q) Will there be solar, fire alarm system, cameras, burglar, alarm, access control?
A) No solar. Fire alarm, security system, and camera system are required. Contractor shall coordinate with Yurok Tribe and their service providers.

Q) No spec is provided for what appears to be a stone or simulated stone veneer over the concrete block at the base of the building. Some people seem to think it is just split face concrete block. Please confirm what you'd like.
A) Stone or simulated stone veneer is acceptable. Submit product for Owner approval.

Q) Spec book calls for Steel windows but the plans show vinyl windows can you please let us know which you would like.
A) Provide aluminum or composite (fiberglass) frame windows. Vinyl will not be acceptable.

Q) Door specs are provided for composite doors and hollow metal doors. Which type of door do you want for interior and exterior door. Also, the composite door spec says that hardware for those doors will be provided by the owner and installed by the contractor. It does not say this for the metal doors. Is it your intent to provide hardware for some/ all of the doors.
A) Refer to updated plans including Door and Hardware Schedules.

Q) At the job walk it was stated that we could only work at the water during certain periods of time. Do you know what windows of time we will have access?
A) Refer to the environmental permit for allowed work windows.

Q) Should we just figure a standard water heater?
A) Provide point-of-use electric water heaters.

Q) Where should the water heater be located?
A) Preferred location is under-sink. Secondary option is attic. Otherwise, within the same room served.

Q) Is it an electric water heater?
A) Yes. Facility is all-electric. Design-build responsibility.

Q) What type heating/cooling system to be?
A) Mini-split systems in apparatus bays. Ducted heat pump or mini-split in office areas. Design-build responsibility.

Q) Where will the main unit be located?
A) locate outside units in the rear of the building on concrete slab.

Q) Has consideration been given to duct routing?
A) Design-build responsibility.

Q) How are we going to run ducts in the floor for the lower level?
A) Design-build responsibility-contractor can use pre-engineered open web floor trusses or strategically placed bulkheads.

Q) Please provide a general electrical plan for the HVAC power supply.
A) Design-build responsibility.

Q) Is the intent for the new hand/guard rails at the stairs to be made from wood, steel or aluminum?
A) Provide steel or aluminum. Wood is not acceptable.

Q) Doe this project have gutters and downspouts?
A) Yes, contractor to provide gutters and downspouts per specification section 077123.

Q) Is the septic system included in the project.
A) Yes, please include the construction of the septic system under item W-Site Utilities. See the construction plans and attached Onsite Wastewater Treatment System Evaluation for details.

Q) Requesting Information for the boat ramp design build, the size, weight, and if you can, the make and model of the largest Jet boat.
A) Hull Material: Aluminum
Gross Tonnage: 7 GRT
Net Tonnage: 5 NRT
Length: 26-feet
Breadth: 10-feet
Depth: 4.1-feet

PREBID MEETING MINUTES

PRE-BID CONFERENCE MEETING MINUTES

Project No.: 0484.2022.03
Project Name: Klamath Transportation Building and Boat Launch
Owner: Yurok Transportation
Date/Time: Wednesday, February 4 2026 at 10:00 am PST
Location: 144 Klamath Blvd., Klamath, CA 95548

A. Introductions/Sign-in Sheet

Passed around sign in sheet. This was a non-mandatory pre-bid meeting meaning all perspective contractors.

B. Licensing Requirements

Class B license is required of the prime/bidding Contractor.

C. Permits

1. Cultural
2. TERO

D. Alternates, allowances, and unit prices

See section 004100 - Bid Schedule in the bidding manual.

E. Work and Services by others

Subcontracting will be per Section 007200

Must provide list of Subcontractors and Major Suppliers per Section 004336

Must complete Section 004505 Statement of Qualifications for the Core Crew

Indian Preference applies to this project. Contractor is to complete the following forms with bid:

a) Statement of Qualifications
b) TERO

F. Bid Opening

Bid opening will be Wednesday, February 25, 2026 @ 2:00 PM PDT
Electronic submittal to smmarshall@yuroktribe.nsn.us
Subject line: Bid Submittal for the Klamath Transportation Building and Boat Launch

G. Timeline (tentative)

Notice of Intent to Award: Wednesday, March 4, 2026
Responsive Bidder will have 2 weeks to submit all required docs:

a) Bonding
b) Insurance
c) TERO permit
d) Wage Determination Schedule
e) Tentative Construction Schedule
f) Schedule of Amounts for Contract Payments

Notice to Proceed: Wednesday, March 18, 2026
Contract will be for 180 Calendar Day (to substantial completion)
Start/Finish Dates to be officially established under the Notice to Proceed

a) Tentative start date: 3/18/2026

b) Tentative completion date: 9/14/2026

Liquidated Damages: $1,000.00 per calendar day

H. Obtaining Bidding & Contracting Manuals and Plans

Builders' Exchange or send request to tvce@tvce.biz for hard copies at the cost of production.

I. Complete Bid (Minimum Requirements)

1. 004000 Bid Form
2. 004100 Bid Schedule
3. 004300 Bid Security
4. 004336 Subcontractor Schedule
5. 004500 Bidder's Qualifications
6. 004505 Indian Enterprise Qualifications Statement (if claimed)
7. 004519 Non-Collusive Affidavit
8. 005300 TERO Pre-Award
9. 009100 Addenda Acknowledgement (if any addenda issued)

J. Bid Security

Refer to Sections 002100 and 004300

K. Insurance

Refer to Section 007200 - General Conditions

a) General Public Liability & Property Damage - $1 Million minimum
b) Workmen's Compensation
c) Commercial Auto Liability - $1 Million minimum
d) Builder's Risk – no less than contract amount

L. Prevailing Wage

Davis Bacon Wage Rates Apply to this project

M. General Safety Requirements

Personnel Protective Equipment (required)
Company Safety Plan (copy on file with Owner)
Daily Safe Plan of Action Reports (reserved)
Weekly Tool Box Meeting (recommended)

N. Special Considerations

None

O. Staging, Access, Parking, Use of facilities

Contractor to store material and equipment in designated zones and staging areas. Contractor must maintain owner access to Jet Boat Tour building and parking lot.

P. Clean up, Protection of Site, and Environmental Considerations

Contractor should consider using temporary protection, barricades, gates, staging areas, and signage. Be mindful of air quality (Odor, Noise, and Dust Control).

Q. Project Description and Scope of Work

See Section 004100 for the Bid Schedule
See Section 011000 for the Summary of Work

R. Discussions

Discussed the location of potential earth spoil sites and location existing utilities. The precise location of underground utilities is largely unknown. It is the contractor's responsibility notify USA Dig and to pothole to identify existing locations. Contractor shall follow USA procedures to identify additional buried utilities. If any active utilities are damaged by the contractor, the contractor shall contact the utility owner and they shall be repaired immediately at the contractor's expense.

S. Questions / Site Tour

All questions will be answered in Addenda 1
Toured the site then conclude tour.

PREBID MEETING SIGN IN SHEET

Yurok Tribe Transportation
190 Klamath Boulevard
Klamath, CA 95548
707.482.1350

PRE-CONSTRUCTION MEETING

KLAMATH TRANSPORTATION BUILDING AND BOAT LAUNCH

2/4/2026
10:00 AM PST

SIGN-IN SHEET

POINT OF CONTACT COMPANY	ADDRESS	TELEPHONE EMAIL
Eric Keyes Trinity Valley Consulting Engineers	67 Walnut Way Willow Creek, CA 95573	530.629.3000 tvce@tvce.biz
Plummerbuilt Inc Juston & Gena	P.O. Box 474 Herald, CA 95638	916-296-7484 plummerbuilt@outlook.com
Michael Roberts Construction	4010 cheryl dr redding, CA	530-921-3746 michaela roberts92@gmail.com
CHRIS ZARBALK PIERSON COMPANY	3116 HARRISON AVE EUREKA, C	CHRIS.Z@PIERSONCOMPANY.COM
DAN SALINGER ADAMS COMMERCIAL	379 2nd ST EUREKA	dan@acgcinc.com
DAVID HAM PACIFIC BUILDERS	980 L ST ARCATA CA 95519	707 362 7617 david@pacificbuilders-arcata.com

SOILS REPORT

TRINITY VALLEY CONSULTING ENGINEERS, INC
Engineering – Surveying – Land Planning – Construction Management

R2 Soils Report

For:
Proposed Transportation Building
17635 Hwy 101
Klamath, CA 95548
APN: 140-050-025

Report Provided For:
Yurok Tribe
144 Klamath Blvd.
Klamath, CA 95548

Report Provided By:
Trinity Valley Consulting Engineers, Inc.
67 Walnut Way / PO Box 1567
Willow Creek, California 95573
(530) 629-3000 Fax: (530) 629-3011

REGISTERED PROFESSIONAL ENGINEER
JOSHUA T. McKNIGHT
RCE 60687
EXP. 12/31/24
CIVIL
STATE OF CALIFORNIA

September 2024
Project Number: 484

TABLE OF CONTENTS

Table of Contents:

Attachments:

1.0 Introduction:
Trinity Valley Consulting Engineers, Inc. (TVCE) was secured by The Yurok Tribe (Client) to conduct a soils investigation and produce a R2 Soils Report for development on the subject property. The following is an outline of our findings and recommendations.

2.0 Project Site Location:
The project site is located at 17635 Highway 101 in Klamath, Del Norte County, State of California (see Attachment 1 for a Location Map). The Assessor Parcel Number (APN) for the property is 140-050-025. The total lot contains approximately 1.05 +/- acres according to Del Norte County records (see Attachment 2 for Assessor Parcel Map).

The parcel centroid and location of the proposed project is Latitude 41°32'17.39"N and Longitude -124° 2'56.15"W according to the Del Norte County Web GIS program (https://www.co.del-norte.ca.us/GIS) (see Attachment 3).

The Site is situated on an approximately level river terrace, as mapped by the U.S. Geologic Survey (USGS, 2021). The approximate site elevation is thirty (30) feet above mean sea level according to Google Earth based on the parcel centroid for the project site.

3.0 Project Site Conditions:
The subject property is currently developed with a wood frame structure and boat dock. Topography is generally flat and drains to the west. The site is bordered to the north by existing developments, east by highway 101, south by riparian vegetation, and west by the Klamath River.

4.0 Proposed Project:
The proposed project will develop a 4,968 SF building with associated parking, ADA parking, sidewalks, and utilities to support the recreational development of this property. The building will be used to house equipment owned by the Yurok Tribe Transportation Department – mainly river jet boats, trailers, and supplies. The building will have 4 bays with roll up doors, a downstairs reception area, bathroom, and second story office space with breakroom. This development also includes the construction of a boat launch rail and track system that will be used to access the Klamath River and launch river boats. The total acreage of the project described is 0.329 acres. This project exists entirely on fee land and will be federally funded.

5.0 Soil Conditions:
A preliminary site investigation was conducted by TVCE on February 25, 2022 to evaluate potential construction sites and soil suitability. Soil samples were not taken at this time. Soil samples from the neighboring property have been utilized for this project. A total of two test pits were identified and excavated to a depth of 9 feet. Soil samples were collected at 9ft. These samples were tested in a laboratory.

The soil profile logs consisted of soils that were consisted sand to sandy loam material. Groundwater was not encountered to depths of nine feet. No bedrock was encountered either (see Soil Logs, Attachment 4).

Soil samples from the neighboring property were utilized for this project, and a textural analysis was performed on the samples. Test results showed the sample to be classified as sand to sandy loam, a zone 1 and zone 2 material respectively (see test result, Attachment 5).

6.0 Soil Evaluation:
Bearing pressure:
Soils encountered will yield a bearing pressure of 2,000 psf for vertical bearing and 150 psf for lateral bearing (2022 California Building Code, Table 1806.2).

Settlement:
Total settlement will be less than 1 inch, and anticipated differential settlement will be less than ¾ inch.

Expansive Soils:
A textural analysis was performed on the soil sample taken from the underlying sandy material at neighboring project site, and it was determined that the fines content of the soil consisted of 82%-92 sand, 0-2% clay, and 8%-16% silt. Due to the high sand content and low clay content of this soil, it is unlikely that expansive soils are present.

Soil Liquefaction:
Liquefaction is a phenomenon that results in a loss of shear strength and potential soil volume reduction in loose, saturated sandy/silty soils below the groundwater table resulting from earthquake shaking. Liquefaction is dependent on many factors, including the intensity and duration of ground shaking, the soil age, density, particle size distribution, and position of the groundwater table.

TVCE's scope of services for this project did not include a comprehensive liquefaction analysis. Therefore, we present a qualitative liquefaction interpretation only. The Site is located in an area delineated as having a liquefaction hazard, as presented on Map S-1 of Special Publication 115 (CDMG, 1995). Based on published mapping in the Site vicinity and soils observed at the Site, we qualitatively assess the potential for liquefaction to be moderate at this site.

Surface Fault Rupture:
The Site is not located within an Alquist-Priolo earthquake fault zone and, as such, does not require a trench-based fault rupture hazard evaluation (CDMG,1983). Based on the distance between the Site and the closest active fault, the potential for surface fault rupture to occur within the Site is low.

7.0 Seismic/Flood Considerations:
The Site is in a seismically active region where large earthquakes may be expected to occur during the economic life span (50 years) of the planned project. The seismicity of the area is dominated by the presence of the Cascadia Subduction Zone (CSZ) wherein oceanic crust of the Juan de Fuca/Gorda plate is being actively subducted beneath the leading edge of the North American plate. Plate convergence along the Gorda segment of the CSZ is occurring at a rate of approximately 30-40 millimeters per year (mm/yr) (Heaton & Kanamori, 1984). Petersen reports a convergence rate of 35 mm/yr for the entire segment of the CSZ (Petersen et al., 1996). Upper plate crustal deformation associated with the subduction of the Gorda plate is expressed as a 90-kilometer (km) wide fold and thrust belt that comprises the accretionary complex along the North American plate margin (Carver, 1987).

Faults within this zone include, but are not limited to, the Grogan fault, the Big Lagoon fault, and the Cascadia subduction zone. Localized areas of ground surface rupture and surface warping are the result of repeated slips along these structures, but they are not located at the Site. The closest active fault is the Cascadia subduction zone, approximately 20 km below the Site. Other potentially causative faults in the vicinity of the Site include the Trinidad fault of the Bald Mountain fault zone, approximately 45 km south of the Site. The Cascadia megathrust is approximately 84 km west of the Site (California Division of Mines and Geology, CDMG, 2000). The Site is not in a "Fault Rupture Hazard Zone" (Bryant and Hart, 2007), or within an area currently designated as a "Seismic Hazard Zone" by the State.

However, strong shaking during a Cascadia event should be expected.

The following coefficients shall be used for seismic design:

Site Class	D
Mapped Spectral Response Acceleration (short), Ss:	2.51 g
Mapped Spectral Response Acceleration (1-sec), S1:	0.97 g
Site Coefficient, Fa:	1.0
Site Coefficient, Fv:	1.5
Acceleration Spectral Response (short), SDS:	1.9 g
Acceleration Spectral Response (1-sec), SD1:	1.32 g
Seismic Design Category:	E
Risk Category:	II
Importance Factor:	1.0

According to FEMA Flood Insurance Rate Maps, Map Number 06015C0475F, effective August 2nd, 2017 (FEMA 2024), the Site is located within a special flood hazard area - Zone A. On the basis of the FEMA flood hazard mapping and the Site elevation, the risk of flooding impacting the study area is 1% annually (sometimes called the "100-year" Flood).

There are several dams in the upper Klamath River basin, northeast of the Site. Based on the Dam Breach Inundation Map Web Publisher the Site is not in an area expected to be impacted by dam failure. We note that the dams are in the process of being demolished.

8.0 Conclusion:

Based on the results of our exploration program, we conclude the project is feasible from a geotechnical standpoint, provided the recommendations of this Report are incorporated into the project design and construction. Furthermore, TVCE recommends the engineer of record provide visual observation of all footing excavation to ensure soil conditions are consistent with this report prior to installation of footings. The primary geologic and geotechnical considerations affecting the planned improvements are as follows:

- The potential for strong seismic ground shaking at the Site; and,
- The potential for liquefaction at the Site.

9.0 Recommendations:
The following recommendations are general recommendations for development purposes, along with some specific recommendations derived from observations on the project site.

Site Preparation & Grading

- Notify Underground Service Alert (1-800-642-2444) prior to any ground disturbing activities.

- If unsuitable materials and/or debris are encounter during excavation for foundation construction, remove soils/debris and replace with engineered fill a minimum of two feet beyond the footprint of the foundation. After demolition of the structures located in the building footprint is complete, it is recommended that the underlying soils be inspected to determine adequacy.

- Strip and remove all topsoil and vegetation from the project area, and for a minimum of three feet to the outside.

- All cut shall be 1:1 or flatter, and fill slopes shall be 1.5:1 or flatter.

- Finished grading should provide a minimum slope of 2 percent away from proposed building.

Foundation

- A standard slab foundation with footings for point loads or raised perimeter foundation is acceptable for the proposed structure. Concrete slabs shall adhere to the following minimum requirements:
    - Thickness: 4" minimum with reinforcement
    - 2" sand over
    - 6 mil. visquine over
    - 6" crushed rock.

- Building foundations shall be constructed per the requirements of the 2022 California building code (CBC).

- Building foundations shall be setback a minimum of twenty feet from any ascending or descending slopes greater than thirty percent.

- Boat ramp rail system foundations shall be concrete pier of corrosion resistant helical screw capable of supporting the anticipated loads.

Retaining Wall

No retaining walls are anticipated for this project.

Erosion Control

The following are specific erosion control measures that are recommended for this project:

- Use standard Best Management Practices to minimize the potential for sediment and contaminated stormwater runoff from leaving the construction site and entering the roadway or neighboring properties. As a minimum, all disturbed areas shall be seeded and covered with straw, and silt fence or straw wattles shall be installed down-gradient of construction areas.

  EC-1: Scheduling of construction and BMP implementation.
  EC-6: Straw Mulching of disturbed areas.
  SE-1: Silt Fencing around project area of impact.
  NS-1: Water Conservation Practice.
  NS-6: Illicit connection/discharge reporting.
  NS-8: Vehicle and equipment cleaning practices.
  NS-9: Vehicle and equipment fueling practices.
  NS-10: Vehicle and equipment maintenance practices.
  NS-12: Concrete curing practices.
  WM-1: Material delivery and storage practices.
  WM-3: Stockpile management.
  WM-4: Spill prevention and control.
  WM-5: Solid waste management.
  WM-6: Hazardous waste management.
  WM-8: Concrete waste management.

10.0 Limitations:

The conclusions and recommendations are based on data described in this report in accordance with generally accepted engineering practice. There is no other warranty or representation either expressed or implied. If the planned project changes from that described herein, or if conditions encountered are different than those described, the findings and recommendations should be reviewed to confirm their applicability.

11.0 Additional Services:

TVCE may perform the following additional services at the request of the owner:

- Verify soil conditions during footing excavation
- Observe construction operations

REFERENCES

12.0 References:

ASCE [American Society of Civil Engineers], 2022, Minimum Design Loads for Buildings and Other Structures: ASCE Standard 7-22.

Bryant W. A. and Hart, E. W., 2007, Fault Rupture hazard zones in California: California Division of Mines and Geology.

CBC [California Building Code], 2022, California Code of Regulations, Title 24, Part 2, Volume 2. California Building Standards Commission.

CDMG, 1995, Planning Scenario in Humboldt and Del Norte Counties, California, for a Great Earthquake on the Cascadia Subduction Zone, SP 115.

CGS, 2000, Digital Images of Official Maps of Alquist-Priolo Earthquake Fault Zones of California, Northern and Eastern Region.

CGS, 2023, Tsunami Inundation Map for Emergency Planning, State of California, County of Klamath, Del Norte County Brochure.

CDMG, 1963, California Geologic Map, Weed Sheet, Olaf P. Jankins Edition, Scale 1:250,000 Second Addition 1973.

Clarke, S. H., Jr., and Carver, G. A., 1992, ate Holocene tectonics and paleo-seismicity, southern Cascadia subduction zone. Science, Vol. 255. Pp. 188-192.

County of Del Norte GIS Mapping

DRW (Department of Water Resources), Dam Breach Inundation Map Web Publisher, 2023, https://fmds.water.ca.gov/webgis/?appid=dam_prototype_v2

FEMA 2024, Flood Insurance Rate Map for Del Norte County Unincorporated, CA, Panel 06015C0500F, effective August 2, 2017.

Geologic Map of California – Klamath Mountains Sheet
California Division of Mines and Geology

Google Earth

Heaton, T. H. and Kanamori, H., 1984, Seismic potential associated with subduction in the northwestern United States, Bulletin of the Seismological Society of America; June 1984; v. 74; no. 3; p. 933- 941.

Toppozada, T., Branum, D., Peterson, C., Hallstrom, C., Cramer, C., Reichle, M., (2000), Epicenters and Areas Damaged by M ≥ 5.5 California Earthquakes, 1800-1999, Map Sheet 49, California Department of Conservation.

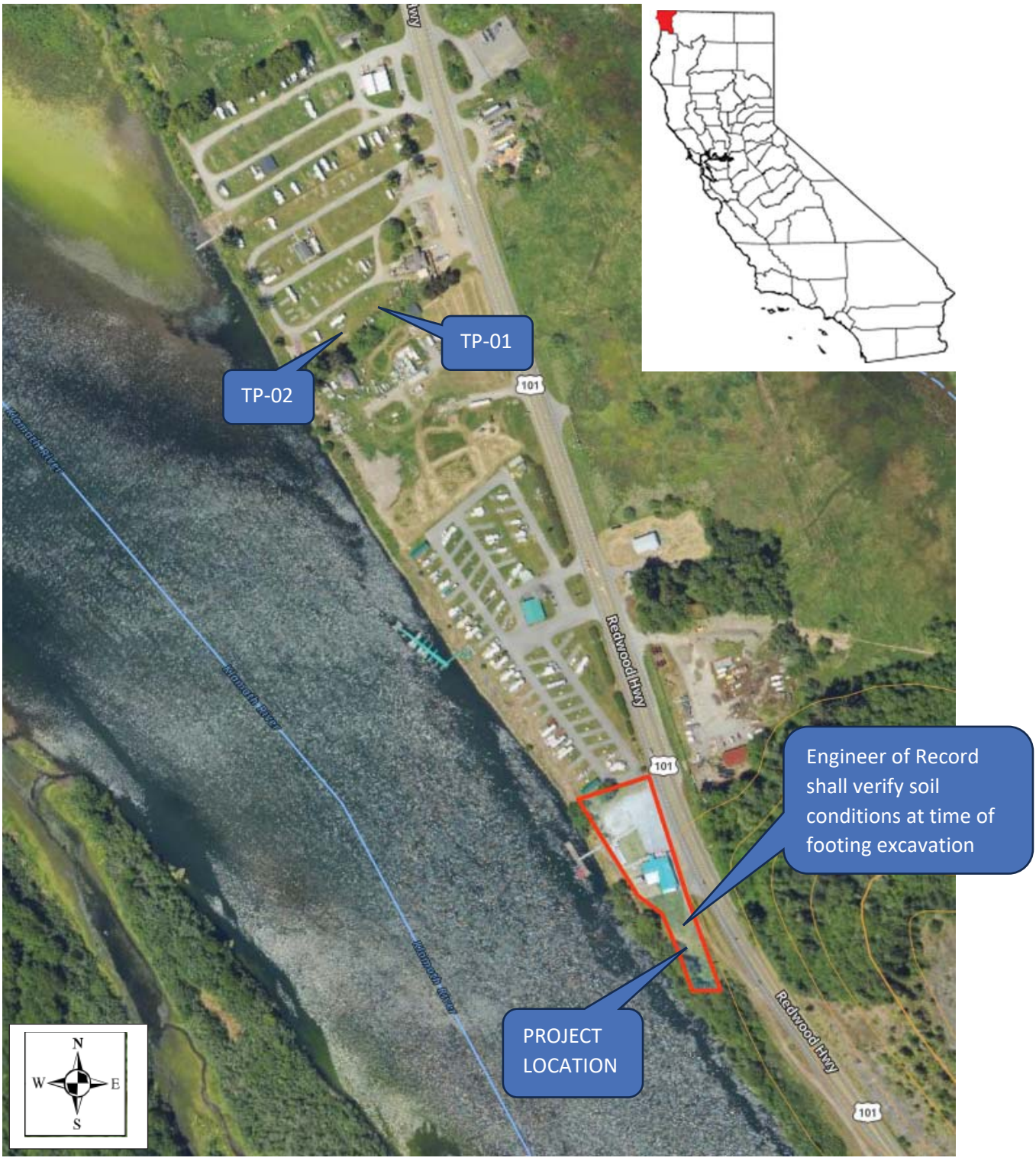
USGS 2010a, Circular Area search for earthquakes, website, http://earthquake.usgs.gov/earthquakes/eqarchives/epic/epic_circ.php.

ATTACHMENT 1

Attachment 1

Location Map

Location Map



TVCE Trinity Valley Consulting Engineers, Inc.	**Location Map** **APN: 140-050-025**	**Project: 484** **Yurok Tribe** **17635 Hwy 101** **Klamath, CA 95548**

ATTACHMENT 2

Attachment 2

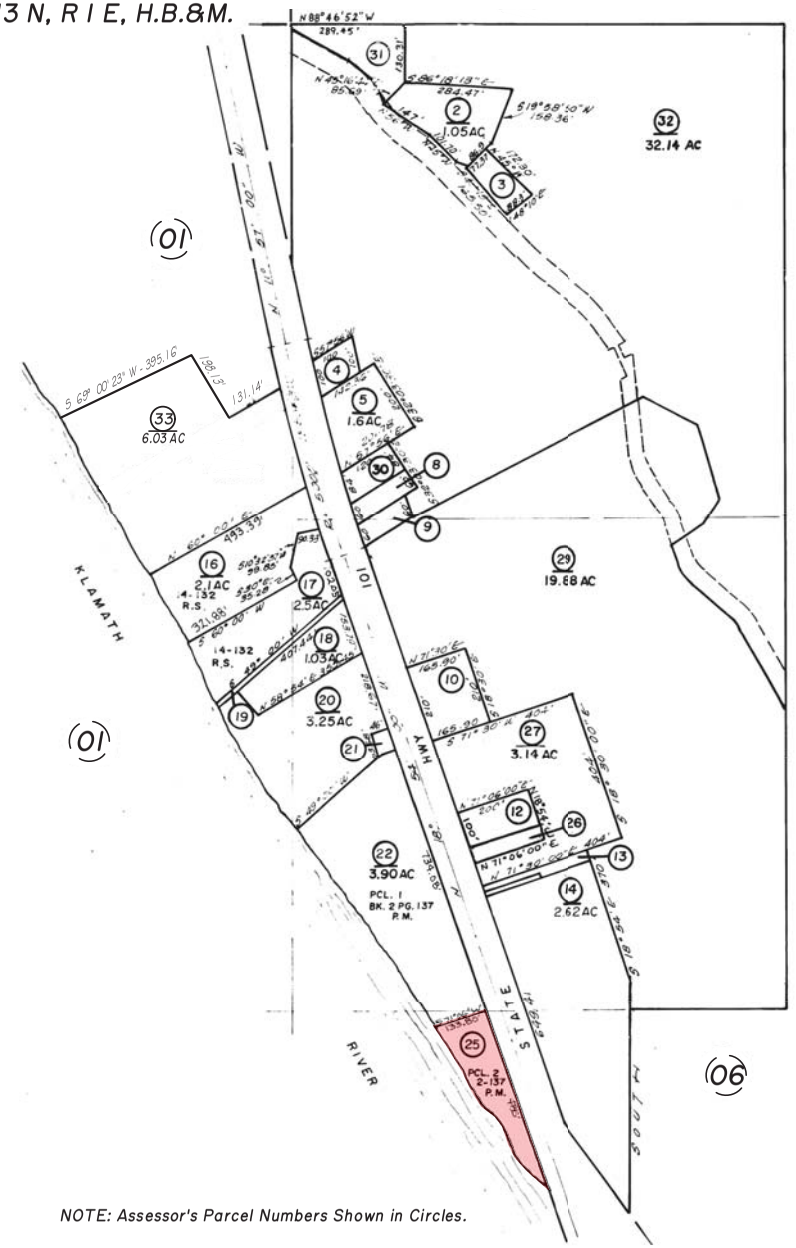
Assessor Parcel Map

POR. SECS. 3 & 4, T 13 N, R 1 E, H.B.&M.

Tax Area
051-031
051-035

140-05

This is not an official map and is intended for assessment purposes only.



NOTE: Assessor's Parcel Numbers Shown in Circles.

1" = 300'

0545
1245
0634
11/19/2018

Assessor's Map Bk. 140 - Pg. 05
County of Del Norte, Calif.

ATTACHMENT 3

Attachment 3

Del Norte County GIS Data

ArcGIS Web Map

6/19/2023, 1:45:00 PM

Parcels
Streets
Precincts
County Supervisor District

1:2,257

0 0.01 0.03 0.05 mi

0 0.02 0.04 0.09 km

Maxar, Microsoft

ArcGIS Web AppBuilder

Maxar, Microsoft |

ATTACHMENT 4

Attachment 4

Soil Exploration Logs (neighboring parcel)

SOIL EXPLORATION LOG

Project Name: Riverside RV Park | Project No: 611 | Date: 04/14/2011

Test Hole #: TP-1 | Hole Diameter: 4'x6' | Excavation Method: Backhoe

Hole Elevation: NA | Groundwater Elevation: NA | Logged by: FAM

DESCRIPTION & REMARKS	COLOR	MOISTURE	CONSIST.	SOIL TYPE - USCS	DEPTH	PROFILE	SAMPLE TYPE / #	BLOWS / FT	WATER CONTENT %	UNIT DRY WEIGHT, PSF
Topsoil										
Loamy Sand	Brown	Damp	Med	SW	-1 -2 -3 -4 -5 -6 -7 -8 -9 -10		TP-1			

Notes:
-No Grounwater Observed
-No Bedrock Observed

TRINITY VALLEY CONSULTING ENGINEERS
Post Office Box 1567, Willow Creek, CA 95573 (530) 629-3000

SOIL EXPLORATION LOG

Project Name: Riverside RV Park | Project No: 611 | Date: 04/14/2011

Test Hole #: TP-2 | Hole Diameter: 4'x6' | Excavation Method: Backhoe

Hole Elevation: NA | Groundwater Elevation: NA | Logged by: FAM

DESCRIPTION & REMARKS	COLOR	MOISTURE	CONSIST.	SOIL TYPE - USCS	DEPTH	PROFILE	SAMPLE TYPE / #	BLOWS / FT	WATER CONTENT %	UNIT DRY WEIGHT, PSF
Topsoil										
					-1					
					-2					
					-3					
					-4					
					-5					
					-6					
					-7					
					-8					
Sand	Brown	Damp	Med	SW	-9		TP-2			
					-10					

Notes:
-No Grounwater Observed
-No Bedrock Observed

TRINITY VALLEY CONSULTING ENGINEERS
Post Office Box 1567, Willow Creek, CA 95573 (530) 629-3000

ATTACHMENT 5

Attachment 5

Soil Analysis

TRINITY VALLEY
CONSULTING ENGINEERS, INC

Joshua T. McKnight CE 60687

Date: 4/12/2011

Report to: Yurok Economic Development Corp
144 Klamath Blvd
Klamath, CA 95548

RE: Riverside RV Park
State Highway 101
Klamath, California

Hole #: TP-1 & TP-2 Depth: 9' Sample Description: Soil

Sampled By: J. McKnight Date Tested: 4/7/2011 Date Sampled: 4/5/2011

SOILS EXAMINATION FOR SOIL PERCOLATION SUITABILITY

Textural Analysis	TP-1	TP-2
Sand:	82%	92%
Clay:	02%	00%
Silt:	16%	08%
Zone Classification:	**2**	**1**

Bulk Density: N/A

Comments:

Zone 1 - Soils in this zone are very high in sand content. They readily accept effluent, but because of their low silt and clay content, they provide minimal filtration. These soils demand greater separation distances from ground water.

Zone 2 - Soils in this zone provide adequate percolation rates and filtration to effluent. They are suitable for use of a conventional system without further testing.

Zone 3 - Soils in this zone are expected to provide filtration of effluent, but their ability at a suitable rate is questionable. These soils require wet-weather percolation tests to verify their suitability for effluent disposal by conventional leachfield methods.

Zone 4 - Soils in this zone are unsuitable for a conventional leachfield because of their severe limitations for accepting effluent.

Josh McKnight, P.E.

Post Office Box 1567 * Willow Creek, CA 95573 * Phone (530) 629-3000 * Fax (530) 629-3011

Soil Texture Analysis Worksheet

Job Name: Yurok Economic Development Corp

Project: Riverside RV Park

Job No.: 611

Performed By: J. McKnight

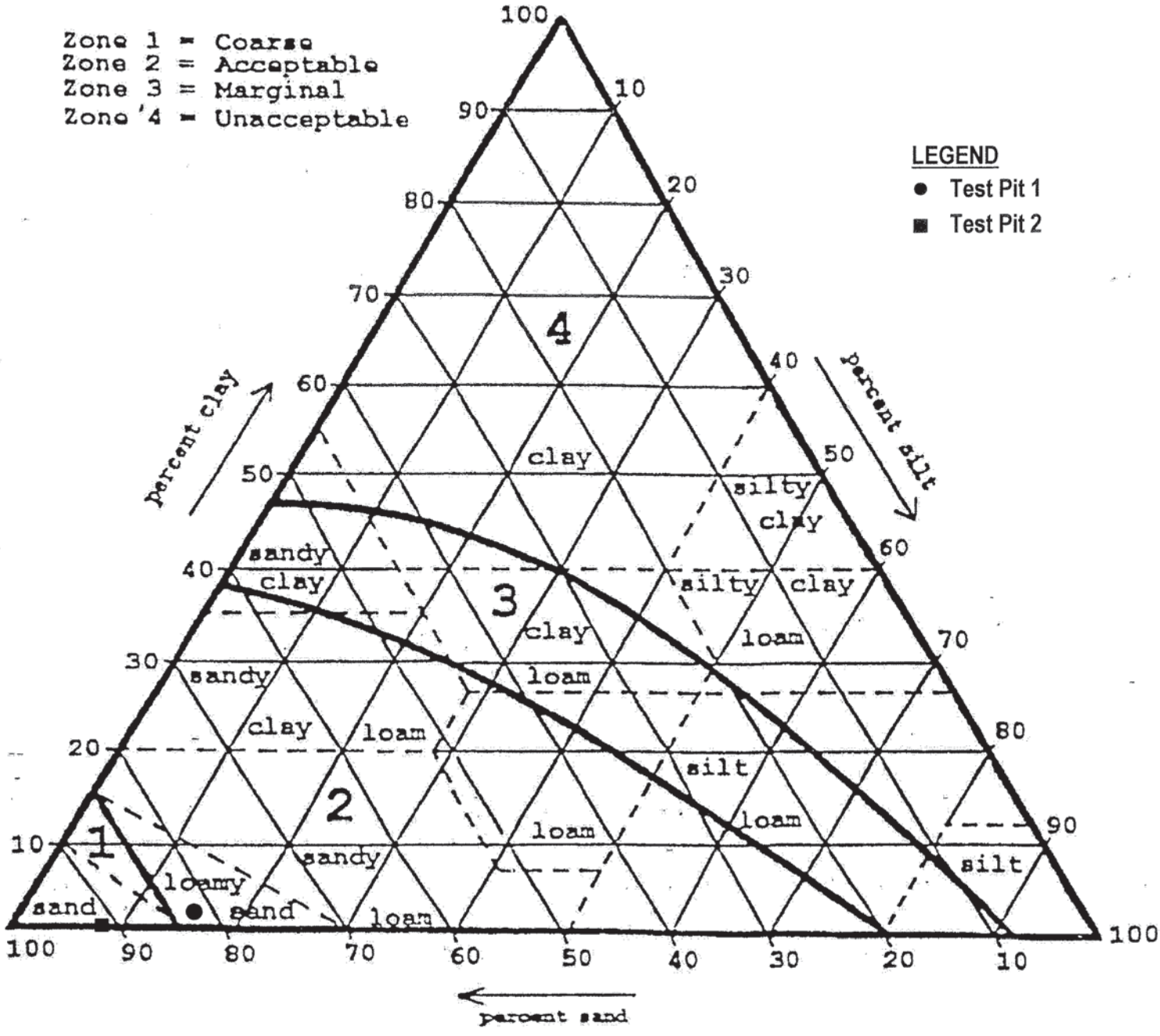
Hole #	TP-1	TP-2
Depth (ft)	9'	9'
Oven Dry Weight (g)	99.9	99.9
Starting Time	1105	1110
Temp @ 40 Sec	68	67
Hydrometer Reading @ 40 sec	24	14
Composite Correction	6.5	6.5
True Density @ 40 sec	17.5	7.5
Temp @ 2 Hours	71	71
Hydrometer Reading @ 2 Hours	8	5
Composite Correction	5.9	5.9
True Density @ 2 hours	2.1	0.0
% Sand	82	92
% Clay	2	0
% Silt	16	8
Soil Zone	**2**	**1**
Classification	**Loamy Sand**	**Sand**

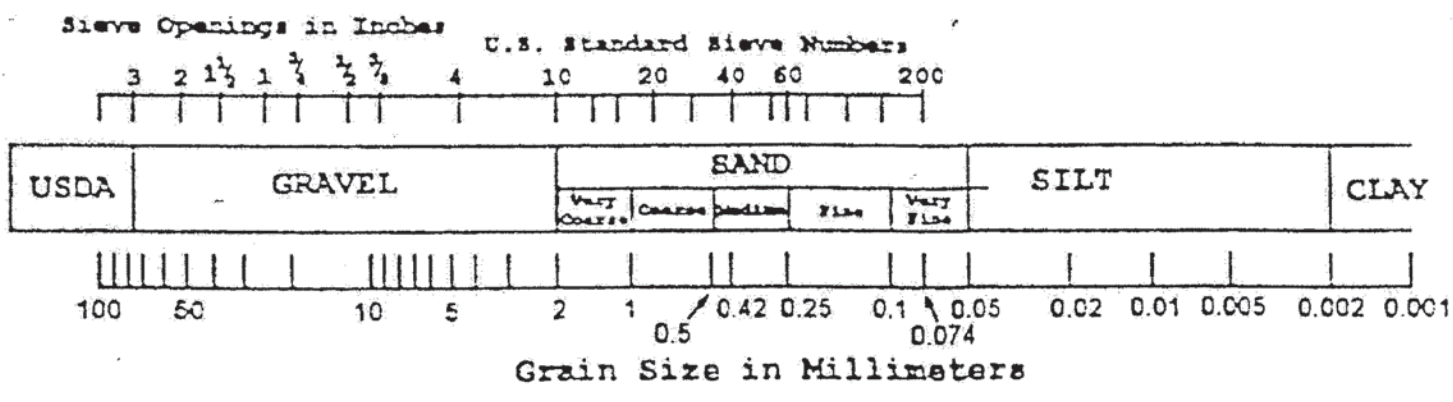
Job Name: Yurok Economic Development Corp
Project: Riverside RV Park
Job No.: 611

Test Pit Number	TP-1	TP-2
Percolation Rate (minutes per inch)	15	6
Application Rate (gallons per day per square foot)	0.8	1.1

Joshua T. McKnight CE 60687

Yurok Economic Development Corp
Project: Riverside RV Park
Job No. 611





ATTACHMENT 6

Attachment 6

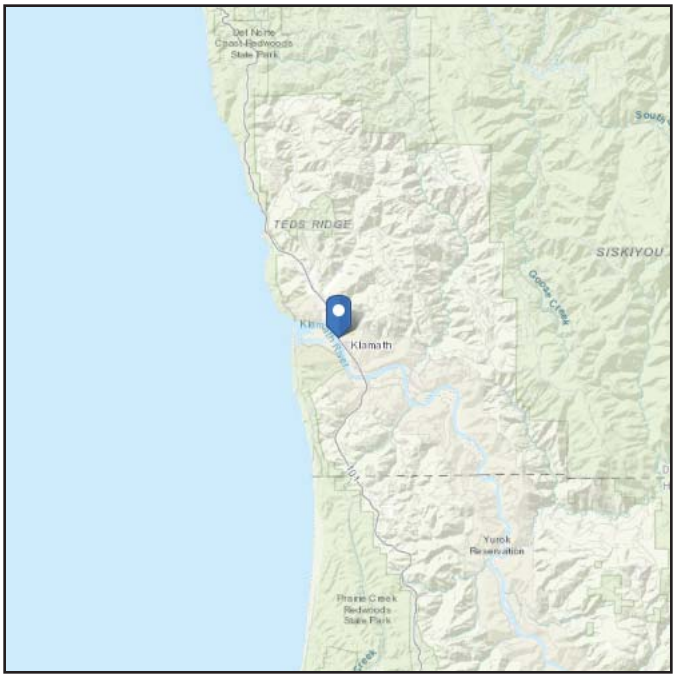
USGS Seismic Hazard Data

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-22
Risk Category: II
Soil Class: Default

Latitude: 41.538156
Longitude: -124.049003
Elevation: 24.24425730796844 ft (NAVD 88)



Wind

Results:

Wind Speed	93 Vmph
10-year MRI	64 Vmph
25-year MRI	70 Vmph
50-year MRI	75 Vmph
100-year MRI	79 Vmph
300-year MRI	87 Vmph
700-year MRI	93 Vmph
1,700-year MRI	99 Vmph
3,000-year MRI	104 Vmph
10,000-year MRI	113 Vmph
100,000-year MRI	129 Vmph
1,000,000-year MRI	148 Vmph

Data Source: ASCE/SEI 7-22, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Mon Sep 23 2024

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2.

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

Seismic

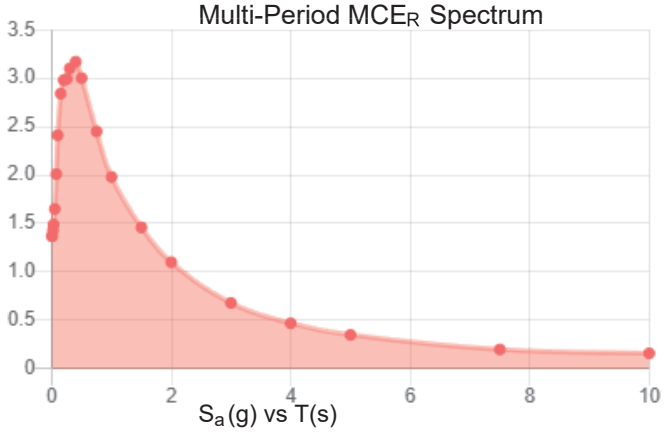
Site Soil Class: Default

Results:

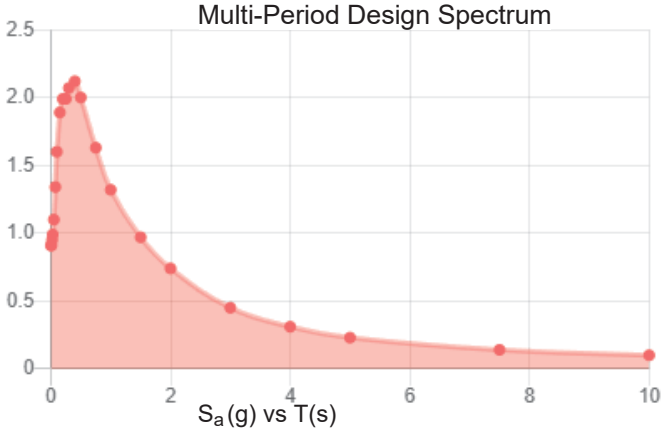
PGA_M :	1.3	T_L :	16
S_{MS} :	2.86	S_S :	2.51
S_{M1} :	1.99	S_1 :	0.97
S_{DS} :	1.9	V_{S30} :	260
S_{D1} :	1.32		

Seismic Design Category: E

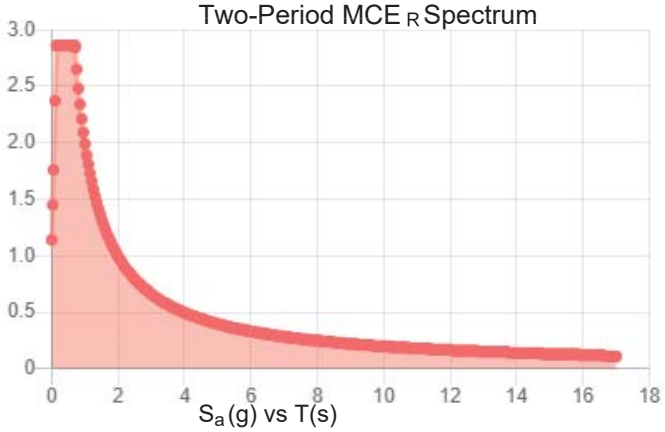
Multi-Period MCE_R Spectrum



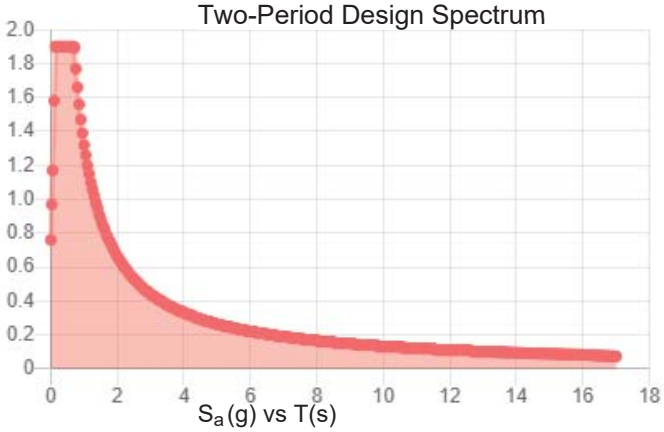
Multi-Period Design Spectrum



Two-Period MCE_R Spectrum



Two-Period Design Spectrum



MCE_R Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum

Vertical ground motion data has not yet been made available by USGS.

Data Accessed: Mon Sep 23 2024

Date Source:
USGS Seismic Design Maps based on ASCE/SEI 7-22 and ASCE/SEI 7-22 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-22 Ch. 21 are available from USGS.

Flood

Results:

Flood Zone Categorization: A

Base Flood Elevation:

Data Source:	FEMA National Flood Hazard Layer - Effective Flood Hazard Layer for US, where modernized (https://msc.fema.gov/portal/search)
Date Accessed:	Mon Sep 23 2024
FIRM Panel:	If available, download FIRM panel here
Insurance Study Note:	Download FEMA Flood Insurance Study for this area here

Tsunami

Results:

Tsunami:	In mapped tsunami design zone. Go to https://asce7tsunami.online/ for more information.
Data Source:	ASCE Tsunami Design Geodatabase
Date Accessed:	Mon Sep 23 2024

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

ONSITE WASTEWATER TREATMENT SYSTEM

TRINITY VALLEY CONSULTING ENGINEERS, INC
Engineering – Surveying – Land Planning – Construction Management

Onsite Wastewater Treatment System Evaluation

For:

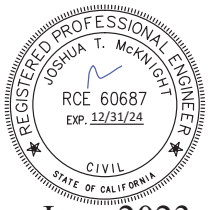
Proposed Transportation Building
17635 Hwy 101
Klamath, CA 95548
APN: 140-050-025

Report Provided For:

Yurok Tribe
144 Klamath Blvd.
Klamath, CA 95548

Report Provided By:

Trinity Valley Consulting Engineers, Inc.
67 Walnut Way / PO Box 1567
Willow Creek, California 95573
(530) 629-3000 Fax: (530) 629-3011



June 2023
Project Number: 484

TABLE OF CONTENTS:

ATTACHMENTS:

1. PROJECT LOCATION AND SITE MAP WITH TEST PIT LOCATIONS
2. ASSESSOR PARCEL MAP
3. COUNTY GIS DATA
4. SOIL EXPLORATION LOG
5. NORTH COAST REGION WATER QUALITY CONTROL BOARD TABLE 4-1 & 4-2
6. SEPTIC SYSTEM EXHIBIT (UTILITY PLAN)
7. SEWAGE DISPOSAL SYSTEM SUBMITTAL
8. SOIL ANALYSIS / PERCOLATION TEST DATA
9. SEPTIC SETBACKS

Introduction:

Trinity Valley Consulting Engineers (TVCE) was secured by The Yurok Tribe (Client) to perform a review of the project and verify the suitability for developing Onsite Wastewater Treatment Systems (OWTS) for the Client's proposed property development. This report is based on accommodating a proposed transportation building that will house a maximum of nine (9) employees. This report demonstrates that the property is suitable for an onsite wastewater treatment system. The following is an outline of our findings and recommendations.

Site Description:

The project site is located at 17635 Highway 101 in Klamath, Del Norte County, CA (see Attachment 1 for a Project Location). The Assessor Parcel Number (APN) for the project is 140-050-025-000 (see Attachment 2 for Assessor Map). The parcel contains approximately 1.05 acres according to Parcel Quest (See Attachment 2). The property is currently developed land with some open space that has been reserved for future construction. Slopes in general are moderate (0%-10%). The parcel is located along the banks of the Klamath River Delta near the Pacific Ocean.

Proposed Project:

The proposed project consists of developing an OWTS for the proposed project. In total, the system will be designed to accommodate nine (9) employees(s). An occupant load of 15 gallons per day per employee was used in the evaluation for suitability of an onsite wastewater disposal system for this parcel.

Field Investigation:

A preliminary site investigation was conducted by TVCE on February 25, 2022 to evaluate potential construction sites and septic suitability. Soil samples were not taken at this time. Soil samples from the neighboring property have been utilized for this project. A total of two test pits were identified and excavated to a depth of 9 feet. Soil samples were collected at 9ft. These samples were tested in a laboratory. Conservative to the data provided, a rate of 15 minutes per inch has been used to preliminarily size the treatment system (See Attachment 8).

Image 1: Initial site visit conducted 2/25/2022.

Minimum setbacks have been included in this report. It is the owners and permitting agencies responsibility to ensure the setbacks are met prior to construction. In addition, the system shall be installed on slopes less than 30% grade with leach lines following the contour of the terrain as close to level as possible.

Evaluation:

The project site is suitable for the development and construction of an onsite wastewater system from a topography and soils standpoint. Soil tests showed that the soils percolated at a rate of 15 minutes per inch. This rate was used in the design of the leach field. Based on the above information, it is recommended that the septic leach system be installed at depths of three feet in order to dispose of leachate in soil types suited to receive them. Based on the available data, it appears that an engineered system would be adequate for use on this site. Proposed leachfield and reserve leachfield locations shall be located to meet all setbacks.

Limitations:

In accordance with the North Coast Region Water Quality Control Board (NCRWQCB), the minimum allowable vertical separation between the bottom of the leachfield and the water table based on assumed material type and fines content percentage is five feet (see Attachment 5, NCRWQCB Figure 4-1). In an effort to maximize the overall separation of leachfield and the water table the wastewater dispersal field has been designed as a shallow trench system and future OWTS should be installed as suggested (see Attachment 6, Septic Exhibit). The dispersal field design will promote maximum treatment time and BOD removal.

Proposed Onsite Wastewater Treatment System:

The following are the minimum suggested components of the Onsite Wastewater Treatment System (see Attachment 7, Sewage Disposal System Submittal Details):

Traditional Leachate Field:

Perforated pipe Leach Field	56 ft.
Infiltrator Leach Field	60 ft.

Maximum and Minimum Leachate Field Quantities per UPC:

	MAXIMUM	MINIMUM
No. of Drain Lines per Field	-	1
Length of Each Line	100 ft.	-
Bottom Width of Trench	36 in.	18 in.
Spacing of Lines (center to center)	-	6 ft.
Depth of Earth Cover	-	1 in.
Grade of Lines	3 in./ 100 ft.	level
Filter Material Under Drain Lines	-	36 in.
Filter Material Over Drain Lines	-	2 in.

Septic Holding Tank:
The holding tank should be a minimum of twelve hundred (1,200) gallon), dual chamber tank system, and should be installed with access ports to finish grade.

Leach Field Setbacks:

Wells	150 ft.
Springs/ Streams / Creeks (high water mark)	100 ft.
Wetland / Lake / Vernal pool / Pond (high water mark)	200 ft.
Unstable Land Mass	100 ft.
Property lines	5 ft.
Buildings	5 ft.

Conclusion:

Review of the site grades, percolation tests and soil stratigraphy has supported that the site is acceptable for development of an engineered onsite wastewater treatment system contingent on the limitations outlined herein. The proposed development will be serviced sufficiently by the capacity for an onsite wastewater disposal system and 100% reserve field area.

References:

California Water Quality Control Plan, North Coast Region

Del Norte County GIS

Del Norte County Sewage Disposal Regulations

Environmental Protection Agency Onsite Wastewater Treatment Manual

Google Earth 2023

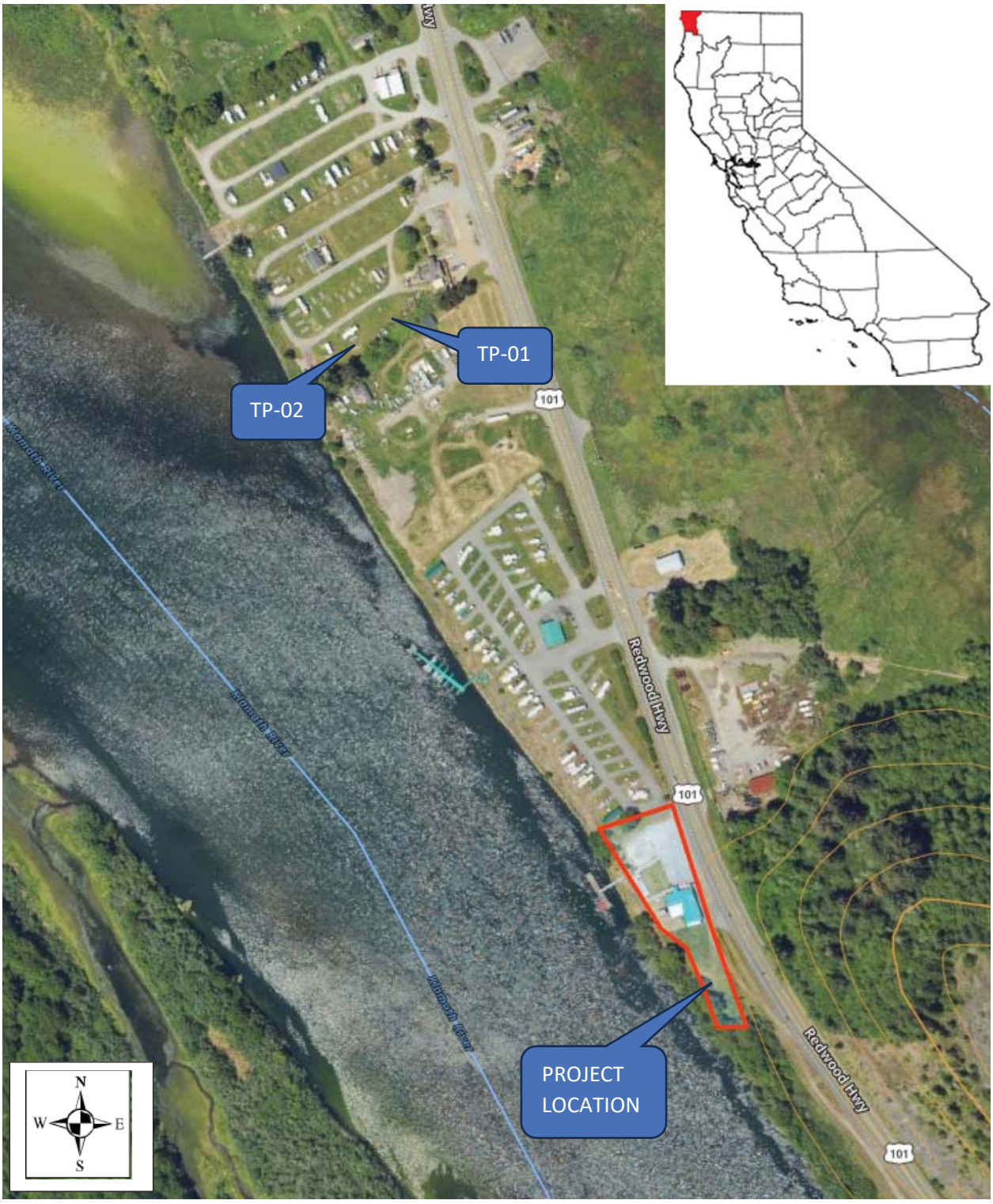
North Coast Region Water Quality Control Board

Uniform Plumbing Code (UPC)

Attachment 1:

Location Map

Location Map



TVCE Trinity Valley Consulting Engineers, Inc	**Location Map** **APN: 140-050-025**	**Project: 484** **Yurok Tribe** **17635 Hwy 101** **Klamath, CA 95548**

Attachment 2:

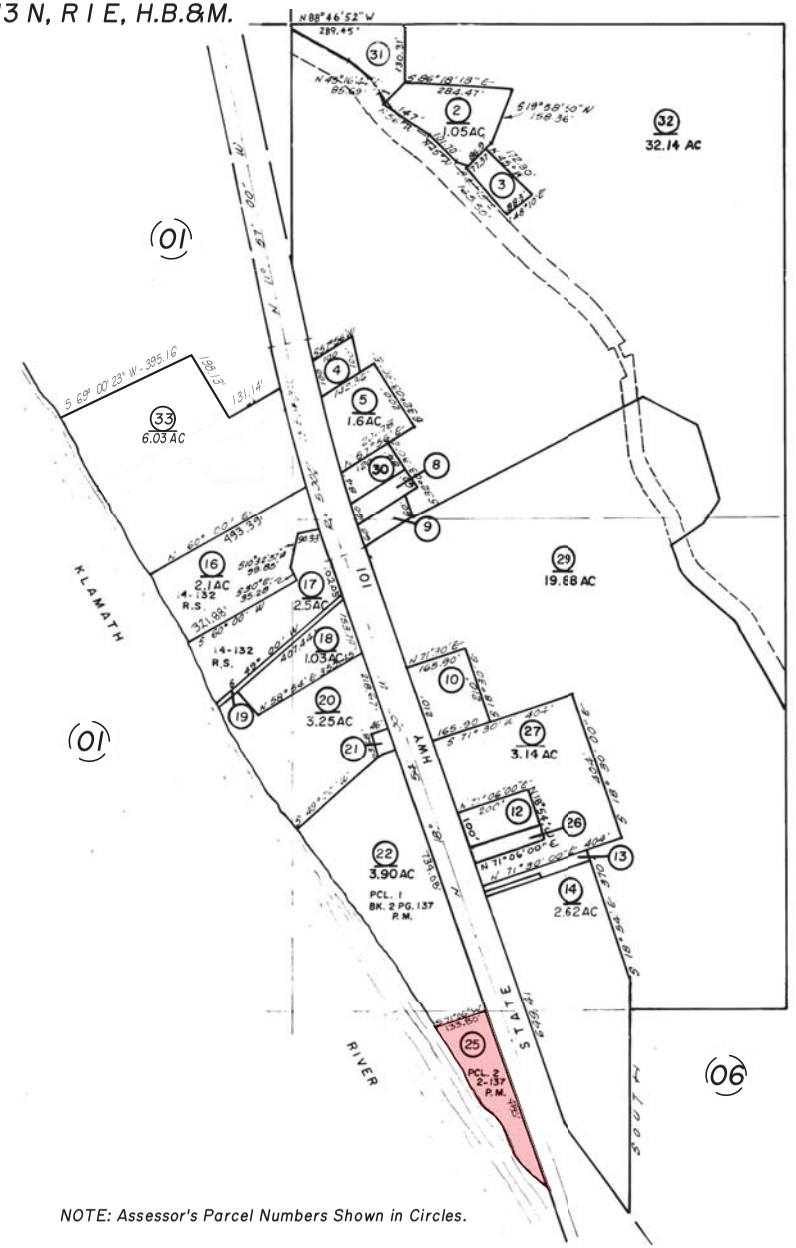
Assessor Parcel Map

POR. SECS. 3 & 4, T 13 N, R 1 E, H.B.&M.

Tax Area
051-031
051-035

140-05

This is not an official map and is intended for assessment purposes only.



NOTE: Assessor's Parcel Numbers Shown in Circles.

1" = 300'

0545
1245
0634
11/19/2018

Assessor's Map Bk. 140 - Pg. 05
County of Del Norte, Calif.

Attachment 3:

County GIS

ArcGIS Web Map

6/19/2023, 1:45:00 PM

Parcels
Streets
Precincts
County Supervisor District

1:2,257

0 0.01 0.03 0.05 mi

0 0.02 0.04 0.09 km

Maxar, Microsoft

ArcGIS Web AppBuilder

Maxar, Microsoft |

Attachment 4:

Soil Exploration Log

SOIL EXPLORATION LOG

Project Name: Riverside RV Park | Project No: 611 | Date: 04/14/2011

Test Hole #: TP-1 | Hole Diameter: 4'x6' | Excavation Method: Backhoe

Hole Elevation: NA | Groundwater Elevation: NA | Logged by: FAM

DESCRIPTION & REMARKS	COLOR	MOISTURE	CONSIST.	SOIL TYPE - USCS	DEPTH	PROFILE	SAMPLE TYPE / #	BLOWS / FT	WATER CONTENT %	UNIT DRY WEIGHT, PSF
Topsoil										
Loamy Sand	Brown	Damp	Med	SW	-1 -2 -3 -4 -5 -6 -7 -8 -9 -10		TP-1			

Notes:
-No Grounwater Observed
-No Bedrock Observed

TRINITY VALLEY CONSULTING ENGINEERS
Post Office Box 1567, Willow Creek, CA 95573 (530) 629-3000

SOIL EXPLORATION LOG

Project Name: Riverside RV Park | Project No: 611 | Date: 04/14/2011

Test Hole #: TP-2 | Hole Diameter: 4'x6' | Excavation Method: Backhoe

Hole Elevation: NA | Groundwater Elevation: NA | Logged by: FAM

DESCRIPTION & REMARKS	COLOR	MOISTURE	CONSIST.	SOIL TYPE - USCS	DEPTH	PROFILE	SAMPLE TYPE / #	BLOWS / FT	WATER CONTENT %	UNIT DRY WEIGHT, PSF
Topsoil										
					-1					
					-2					
					-3					
					-4					
					-5					
					-6					
					-7					
					-8					
Sand	Brown	Damp	Med	SW	-9		TP-2			
					-10					

Notes:
-No Grounwater Observed
-No Bedrock Observed

TRINITY VALLEY CONSULTING ENGINEERS
Post Office Box 1567, Willow Creek, CA 95573 (530) 629-3000

Attachment 5:

North Coast Region Water Quality Control Board
Table 4-1 & 4-2

4. Depth to Groundwater

   Minimum depth to the anticipated highest level of groundwater below the bottom of the leaching trench shall be determined from Figure 4-1.

5. Percolation Rates

   Percolation test results in the effluent disposal area shall not be less than one inch per 60 minutes (60 MPI) for conventional leaching trenches. Percolation rates of less than one inch per 60 minutes (60 MPI) may be granted as a waiver or for alternative systems.

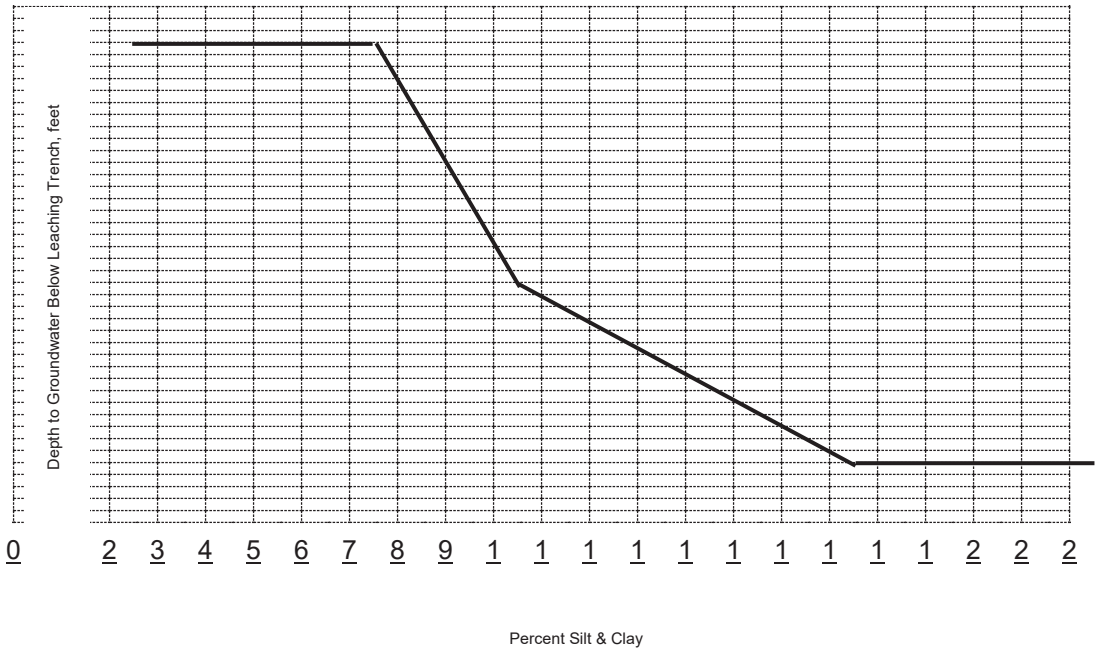
6. Setback Distances

   Minimum setback distances for various features of individual waste treatment and disposal systems shall be as shown below in Table 4-1.

7. Replacement Area

   An adequate replacement area equivalent to and separate from the initial effluent disposal area shall be reserved at the time of site approval. The replacement system area shall not be disturbed to the extent that it is no longer suitable for wastewater disposal. The replacement system area shall not be used for the following: construction of buildings, parking lots or parking areas, driveways, swimming pools, or any other use that may adversely affect the replacement area.

FIGURE 4-1 MINIMUM DEPTH TO GROUNDWATER BELOW LEACHING TRENCH



Notes:

1. The Silt & Clay content shall be determined after adjustment for coarse fragments as indicated in the method set forth in Figure 4-2, and must exist for a minimum of three feet between the bottom of the leaching trench and groundwater.
2. For percolation rates slower than 5 mpi, a minimum depth to groundwater below the leaching trench shall be five feet.
3. For soils having greater than 15% Silt & Clay, lesser depths to groundwater, to a minimum depth of two feet below the leaching trench, may be granted only as a waiver or for alternative systems.

Table 4-1
Minimum Setback Distances (Feet)

Facility	Well	Perennially Flowing Stream [1]	Ephemeral Stream [2]	Ocean, Lake, or Reservoir [3]	Cut Banks, Natural Bluffs, and Sharp Changes in Slope	Unstable Land Forms
Septic Tank/Sump	100	50	25	50	25	50
Leaching Field	100	100	50	100	25	50

1. As measured from the line which defines the limit of 10 year frequency flood.
2. As measured from the edge of the water course.
3. As measured from the high-water line.
4. Where soil depth or depth to groundwater below the leaching trench are less than five feet, a minimum set back distance of 50 feet shall be required.

Table 4-2 Rates of Wastewater Application for Absorption Areas

Soil Texture	Percolation Rate Minutes per Inch	Application Rate Gallons per Day per Square Foot
Gravel, coarse sand	<1	Not Suitable
Coarse to medium sand	1 – 5	1.2
Fine sand, loamy sand	6 – 15	1.1 – 0.8
Sandy loam, loam	16 – 30	0.7 – 0.6
Loam, porous silt loam	31 – 60	0.5 – 0.4
Silty clay loam, clay loam –a,b	61 – 120	0.4 – 0.2

Note: Application rates may be interpolated based on percolation rates, within the ranges listed above.

a. Soils without expandable clays.
b. These soils may be easily damaged during construction.

3. It is for use at a campground or similar temporary public facility where a permanent sewage disposal system is not necessary or feasible and maintenance is performed by a public agency.

F. Intercept Drains

The use of intercept drains to lower the level of perched groundwater in the immediate leachfield area shall be acceptable under the following conditions:

1. Natural ground slope is greater than 5 percent;

2. Site investigations show groundwater to be perched on bedrock, hardpan, or an impermeable soil layer;

3. The intercept drain extends from ground surface into bedrock, hardpan, or the impermeable soil layer.

In no case shall the pervious section of an intercept drain be located less than 15 feet upgradient or 50 feet laterally from any leachfield.

Where all of the above conditions cannot be met, actual performance of the intercept drain shall be demonstrated prior to approval.

G. Fills

The use of fills to create a leachfield cover shall be acceptable under the following conditions:

1. Where the natural soils and the fill material meet the evaluation criteria as described in Section III of this policy;

2. Where the quantity and method of fill application is described;

3. Where the natural slope does not exceed 20 percent;

4. Where placement of fill will not aggravate slope stability or significantly alter drainage patterns or natural water courses.

Leachlines for wastewater disposal shall be placed entirely within natural soils. Fill material shall not be used to create a basal area for alternative systems or mounds.

Local agencies shall provide specific criteria for the use of fill material which are compatible with the provisions of this policy.

H. Water Saving Devices

The use of water-saving devices may be incorporated into the on-site system design where maintenance of such devices is provided by a responsible entity.

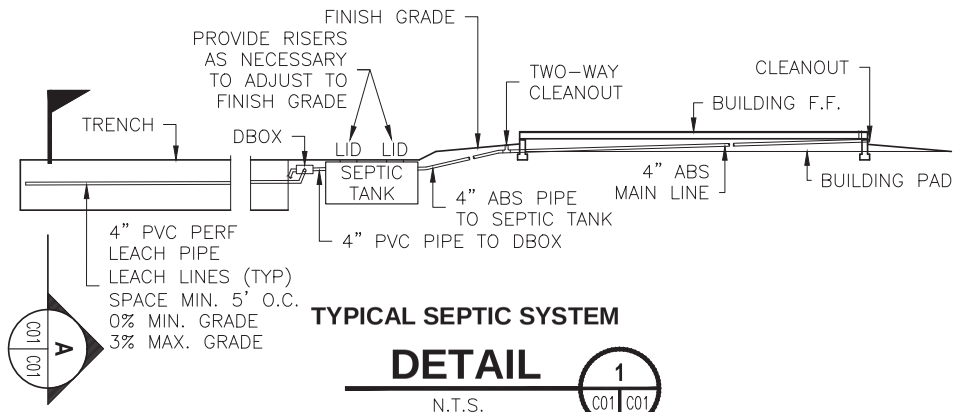
Regional Water Board waste discharge regulation of on-site disposal systems may specify the use of water conservation.

I. Alternative Systems

An alternative system may be appropriate where physical site constraints preclude the installation of a standard septic tank leachfield on-site wastewater disposal system. Alternative systems shall be subject to a program of monitoring provided by a legally responsible entity.

Attachment 6:

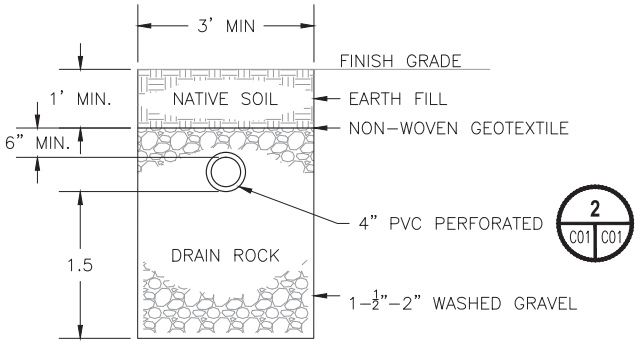
Septic System Exhibit
(Utility Plan)



TYPICAL SEPTIC SYSTEM

DETAIL 1 (C01 | C01)

N.T.S.



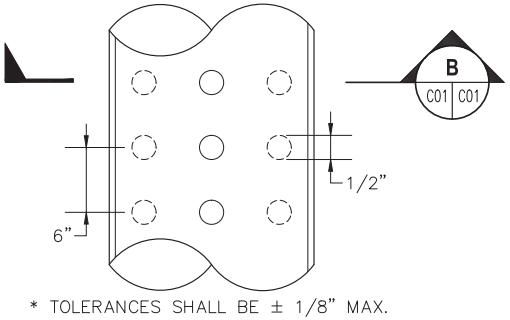
LEACHATE TRENCH

DETAIL A (C01 | C01)

1"-2'

SANITARY SEWER NOTES:

1. THE ONSITE WASTEWATER TREATMENT SYSTEM SHALL BE DESIGNED AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE STANDARDS SETFORTH IN THE ENVIRONMENTAL PROTECTION AGENCY ONSITE WASTEWATER TREATMENT SYSTEM MANUAL.
2. CONNECTION BETWEEN THE BUILDING AND THE SEPTIC HOLDING TANK SHALL BE OF ABS SCHEDULE 40 ASTM F-628 SEWER PIPE OR APPROVED EQUAL AND BE WITHOUT BENDS IN EXCESS OF 45 DEGREES. A MINIMUM OF ONE TWO-WAY CLEANOUT SHALL BE INSTALLED BETWEEN THE BUILDING AND THE HOLDING TANK. SUBSEQUENT CLEANOUTS SHALL BE INSTALLED FOR EVERY 100 LF OF ADDITIONAL PIPE.
3. THE SEPTIC HOLDING TANK SHALL BE A MINIMUM OF 1,200 GALLON CAPACITY, WITH DUAL CHAMBERS, AND SANITARY BAFFLES FOR EACH PIPE ENTERING/EXISTING THE TANK.
4. ALL DISTRIBUTION BOXES SHALL BE INSTALLED A MINIMUM OF 5 LF AWAY FROM THE SEPTIC HOLDING TANK AND BE ESTABLISHED AT A FLOW LINE ELEVATION 6 INCHES BELOW THE OUTLET FLOW LINE OF THE SEPTIC HOLDING TANK.
5. THE LEACHATE DISPOSAL FIELD SHALL BE ESTABLISHED A MINIMUM OF 5 LF AWAY FROM THE DISTRIBUTION BOX, HAVE A MINIMUM OF 5 LF SEPARATION BETWEEN EACH LEACH LINE, HAVE A SLOPE OF 0%, RECEIVE A MINIMUM OF 1 FOOT OF 2" DRAIN ROCK UNDER THE LEACH LINES AND A MINIMUM OF 6 INCHES OF 2" DRAIN ROCK COVER OVER THE TOP OF THE LEACH LINES. NATIVE FILL SHALL BE SEPARATED FROM THE DRAIN ROCK USING A NON-WOVEN GEOTEXTILE. LEACH FIELD PIPE SHALL BE 4" PVC WITH PERFORATIONS OF 1/2 INCH DIAMETER OR SMALLER SPACED EVENLY AT 6 INCH INTERVALS.

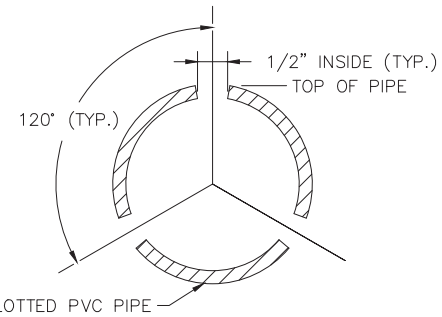


* TOLERANCES SHALL BE ± 1/8" MAX.

4" Ø PIPE PERFORATION SCHEDULE

DETAIL 2 (C01 | C01)

N.T.S.



4"Ø PIPE PERFORATION SCHEDULE

SECTION B (C01 | C01)

N.T.S.

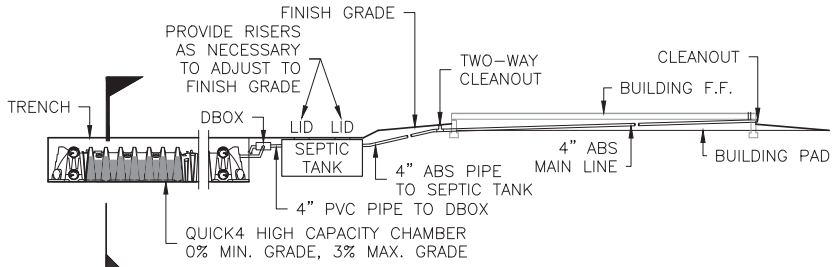
TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629-3000
FAX (530) 629-3011

REV | DATE | DESCRIPTION | DRN BY | DES BY | CHK BY | APP BY

STANDARD

LEACHATE PLAN

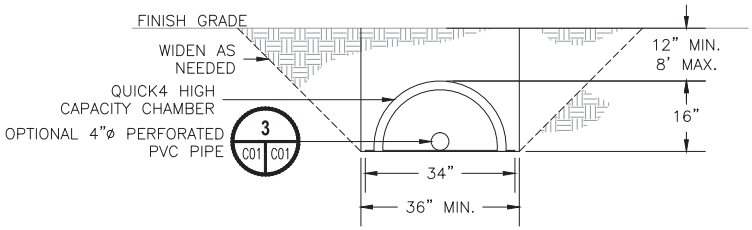
DRAWN BY: F. MASTEN
DESIGNED BY: F. MASTEN
CHECKED BY: J. MCKNIGHT
APPROVED BY: B. FERRIS
DATE OF ISSUE: JULY 2010
SCALE: AS SHOWN
PROJECT NO: --
DRAWING NO: C01



TYPICAL SEPTIC SYSTEM

DETAIL 1 C01 C01

NTS



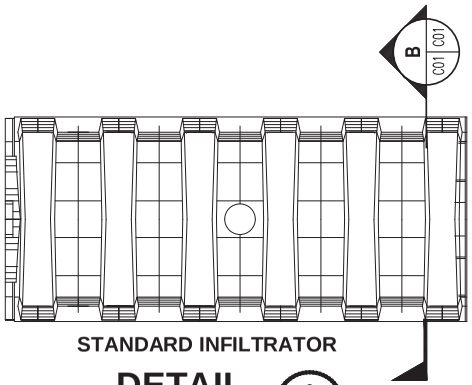
INFILTRATOR TRENCH

DETAIL A C01 C01

N.T.S.

INFILTRATOR NOTES:

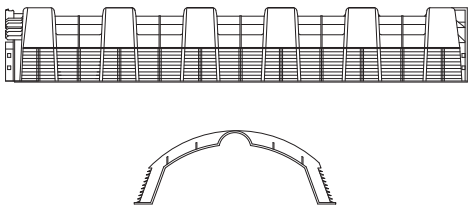
1. BACKFILL AROUND CHAMBERS WITH NATIVE MATERIAL.
2. REMOVE ALL DEBRIS AND DELITERIOUS MATERIAL FROM NATIVE FILL.
3. DO NOT ALLOW ROCKS LARGER THAN 2"ø TO CONTACT CHAMBERS WHEN BACKFILLING.
4. PLACE 4" PERFORATED PVC PIPE AT FLOW LINE OF TRENCH, CONNECT TO INCOMING 4" SOLID PVC PIPE FROM DISTRIBUTION BOX.



STANDARD INFILTRATOR

DETAIL 2 C01 C01

N.T.S.



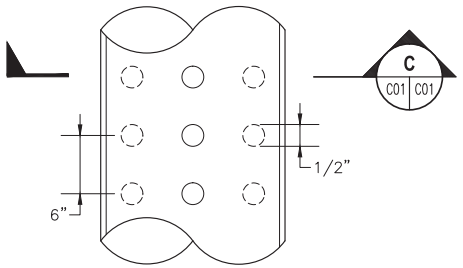
STANDARD INFILTRATOR

SECTION B C01 C01

N.T.S.

SANITARY SEWER NOTES:

1. THE ONSITE WASTEWATER TREATMENT SYSTEM SHALL BE DESIGNED AND CONSTRUCTED IN STRICT ACCORDANCE WITH THE STANDARDS SETFORTH IN THE ENVIRONMENTAL PROTECTION AGENCY ONSITE WASTEWATER TREATMENT SYSTEM MANUAL.
2. CONNECTION BETWEEN THE BUILDING AND THE SEPTIC HOLDING TANK SHALL BE OF ABS SCHEDULE 40 ASTM F-628 SEWER PIPE OR APPROVED EQUAL AND BE WITHOUT BENDS IN EXCESS OF 45 DEGREES. A MINIMUM OF ONE TWO-WAY CLEANOUT SHALL BE INSTALLED BETWEEN THE BUILDING AND THE HOLDING TANK. SUBSEQUENT CLEANOUTS SHALL BE INSTALLED FOR EVERY 100 LF OF ADDITIONAL PIPE.
3. THE SEPTIC HOLDING TANK SHALL BE A MINIMUM OF 1,200 GALLON CAPACITY, WITH DUAL CHAMBERS, AND SANITARY BAFFLES FOR EACH PIPE ENTERING/EXISTING THE TANK.
4. ALL DISTRIBUTION BOXES SHALL BE INSTALLED A MINIMUM OF 5 LF AWAY FROM THE SEPTIC HOLDING TANK AND BE ESTABLISHED AT A FLOW LINE ELEVATION 6 INCHES BELOW THE OUTLET FLOW LINE OF THE SEPTIC HOLDING TANK.
5. THE LEACHATE DISPOSAL FIELD SHALL BE ESTABLISHED A MINIMUM OF 5 LF AWAY FROM THE DISTRIBUTION BOX, HAVE A MINIMUM OF 10 LF SEPARATION ON CENTER BETWEEN TRENCHES, HAVE A MINIMUM SLOPE OF 0% AND A MAXIMUM SLOPE OF 3%. THE FIELD SHALL BE CONSTRUCTED OF QUICK4 HIGH CAPACITY CHAMBERS, OR APPROVED EQUAL BY OWNER. FIELD FLOW LINE PIPE SHALL BE 4" PVC WITH PERFORATIONS OF 1/2 INCH DIAMETER OR SMALLER SPACED EVENLY AT 6 INCH INTERVALS. INSTALL OBSERVATION PORTS TO GRADE AT THE END OF EACH TRENCH USING 4" SCHEDULE 40 PVC PIPE. CAP OBSERVATION PORTS AND COVER WITH CARSON HDPE BOX WITH LID MARKED "SEWER".

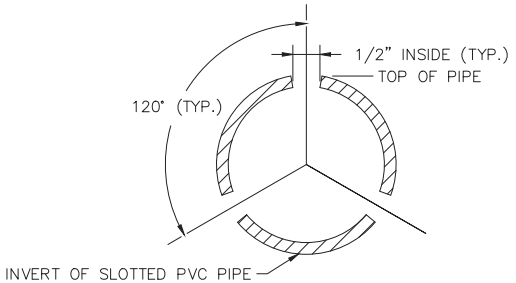


* TOLERANCES SHALL BE ± 1/8" MAX.

4" Ø PIPE PERFORATION SCHEDULE

DETAIL 3 C01 C01

N.T.S.



4"Ø PIPE PERFORATION SCHEDULE

SECTION C C01 C01

N.T.S.

TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629-3000
FAX (530) 629-3011

REV	DATE	DESCRIPTION	DRN BY	DES BY	CHK BY	APP BY

INFILTRATOR

LEACHATE PLAN

DRAWN BY: E. ACTIES
DESIGNED BY: F. MASTEN
CHECKED BY: J. MCKNIGHT
APPROVED BY: B. FERRIS

DATE OF ISSUE: JANUARY 2010

SCALE: AS SHOWN

PROJECT NO: --

DRAWING NO: C01

1" 1/2" 0" 1"

Attachment 7:

Sewage Disposal System Submittal

TRINITY VALLEY CONSULTING ENGINEERS 2200 Main Street Weaverville, CA 96093 (530) 623-4446	Onsite Wastewater Disposal	By: E. Keyes	Sheet No. :
	Yurok Tribe	Check By: JTM	1 of 1
	APN: 145-050-25	Date:	Job No. :
	Klamath, CA	6/20/2023	484

SEWAGE DISPOSAL SYSTEM SUBMITTAL

SOILS

Zone	2		
Limiting Condition	None		None
Depth to Limiting Condition	9	LF	
Percolation Rate	15	Min/Inch	Table 4-2, North Coast Basin Plan, RWQCB
Design Application Rate	0.80	GPD/SF	

DESIGN FLOW

Number of Employees	9		
Flow Per Employee	15	GPD	
Design Flow	135	GPD	

LEACHFIELD TRADITIONAL

Minimum Required Area	169	SF	
Area per Linear Foot	3	SF/LF	
Percent Reqd Area	100%		
Minimum Total Length	56	LF	
No. of Laterals	1		
Minimum Lateral Length	56	LF	
Depth to Trench Bottom	3	LF	

LEACHFIELD INTERCEPTOR

Required Area	169	SF	
Area per Linear Foot	2.83	SF/LF	Based on Infiltrator Quick 4 High Capacity Chamber
Percent Reqd Area	100%		
Minimum Total Length	60	LF	
No. of Laterals	1		
Minimum Lateral Length	60	LF	
Depth to Trench Bottom	3	LF	

SEPTIC TANK

Min. Storage Volume	750	GALLON	UPC Table H201.1(1)
Min. Storage Volume	1200	GALLON	Recomended

NOTES:

Attachment 8:

Soil Analysis / Percolation Test

TRINITY VALLEY
CONSULTING ENGINEERS, INC

Joshua T. McKnight CE 60687

Date: 4/12/2011

Report to: Yurok Economic Development Corp
144 Klamath Blvd
Klamath, CA 95548

RE: Riverside RV Park
State Highway 101
Klamath, California

Hole #: TP-1 & TP-2 Depth: 9' Sample Description: Soil

Sampled By: J. McKnight Date Tested: 4/7/2011 Date Sampled: 4/5/2011

SOILS EXAMINATION FOR SOIL PERCOLATION SUITABILITY

Textural Analysis	TP-1	TP-2
Sand:	82%	92%
Clay:	02%	00%
Silt:	16%	08%
Zone Classification:	**2**	**1**

Bulk Density: N/A

Comments:

Zone 1 - Soils in this zone are very high in sand content. They readily accept effluent, but because of their low silt and clay content, they provide minimal filtration. These soils demand greater separation distances from ground water.

Zone 2 - Soils in this zone provide adequate percolation rates and filtration to effluent. They are suitable for use of a conventional system without further testing.

Zone 3 - Soils in this zone are expected to provide filtration of effluent, but their ability at a suitable rate is questionable. These soils require wet-weather percolation tests to verify their suitability for effluent disposal by conventional leachfield methods.

Zone 4 - Soils in this zone are unsuitable for a conventional leachfield because of their severe limitations for accepting effluent.

Josh McKnight, P.E.

Post Office Box 1567 * Willow Creek, CA 95573 * Phone (530) 629-3000 * Fax (530) 629-3011

Soil Texture Analysis Worksheet

Job Name: Yurok Economic Development Corp

Project: Riverside RV Park

Job No.: 611

Performed By: J. McKnight

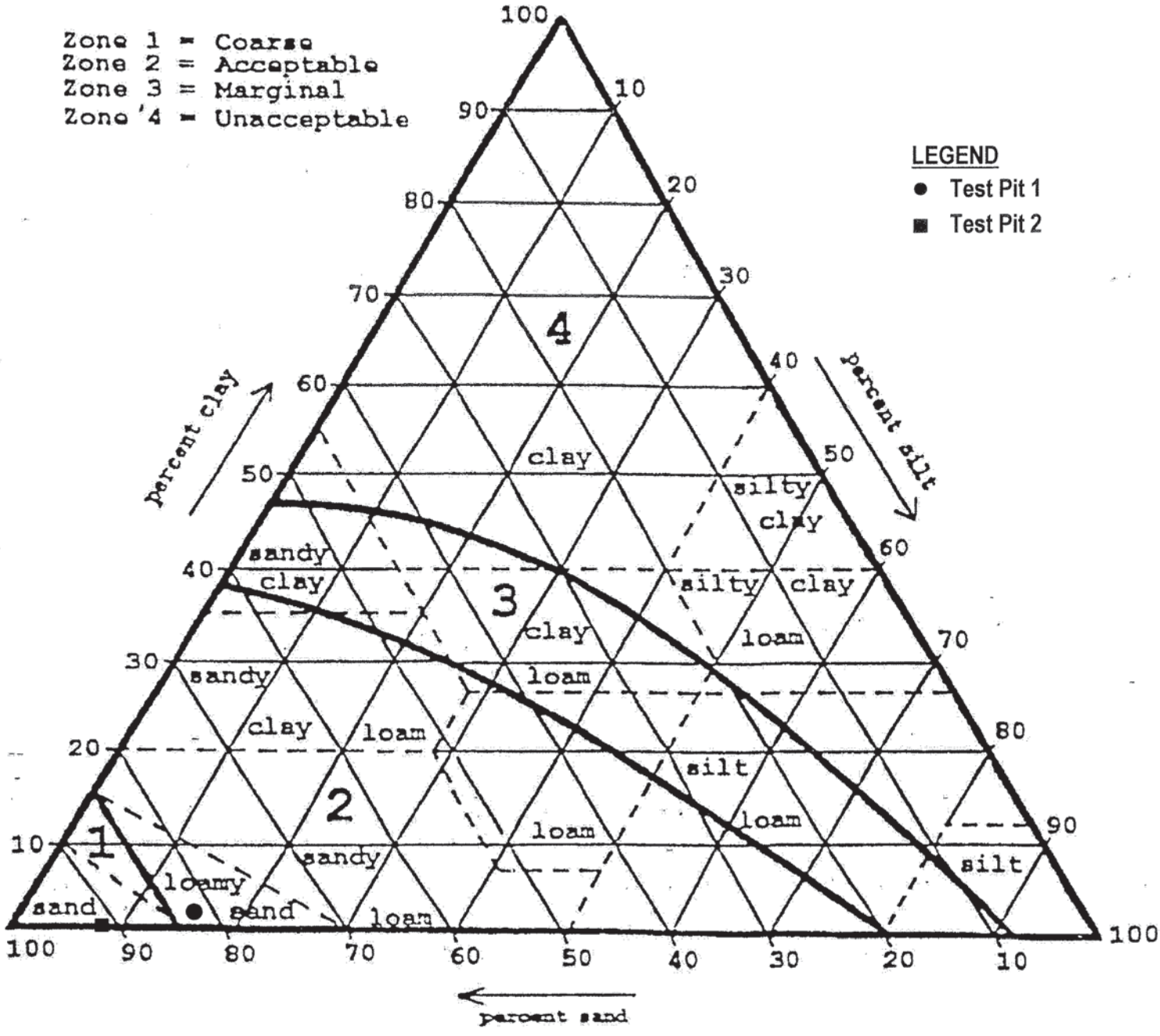
Hole #	TP-1	TP-2
Depth (ft)	9'	9'
Oven Dry Weight (g)	99.9	99.9
Starting Time	1105	1110
Temp @ 40 Sec	68	67
Hydrometer Reading @ 40 sec	24	14
Composite Correction	6.5	6.5
True Density @ 40 sec	17.5	7.5
Temp @ 2 Hours	71	71
Hydrometer Reading @ 2 Hours	8	5
Composite Correction	5.9	5.9
True Density @ 2 hours	2.1	0.0
% Sand	82	92
% Clay	2	0
% Silt	16	8
Soil Zone	**2**	**1**
Classification	**Loamy Sand**	**Sand**

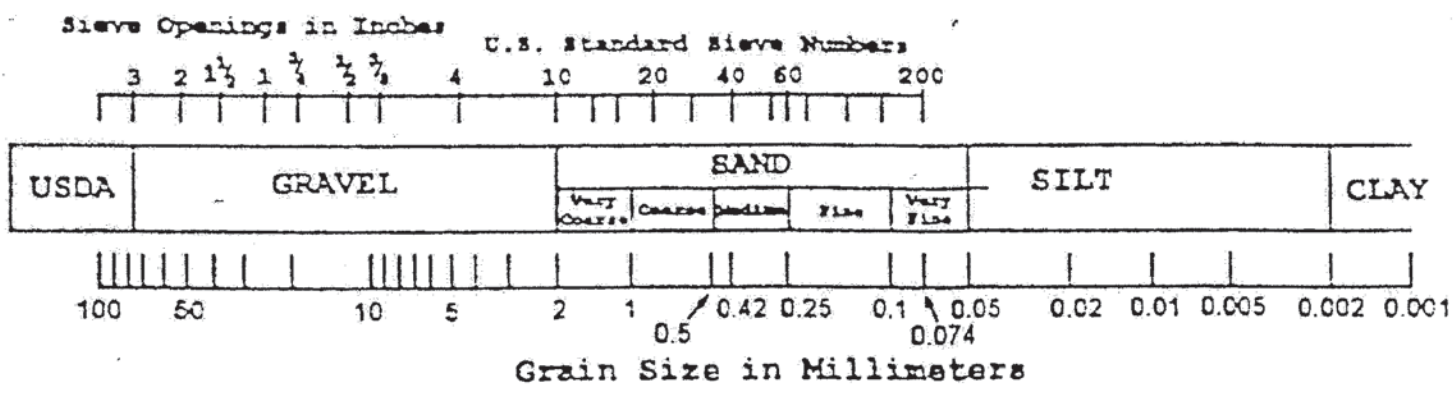
Job Name: Yurok Economic Development Corp
Project: Riverside RV Park
Job No.: 611

Test Pit Number	TP-1	TP-2
Percolation Rate (minutes per inch)	15	6
Application Rate (gallons per day per square foot)	0.8	1.1

Joshua T. McKnight CE 60687

Yurok Economic Development Corp
Project: Riverside RV Park
Job No. 611





Attachment 9:

Septic Setbacks

Table 4-1
Minimum Setback Distances (Feet)

Facility	Well	Perennially Flowing Stream [1]	Ephemeral Stream [2]	Ocean, Lake, or Reservoir [3]	Cut Banks, Natural Bluffs, and Sharp Changes in Slope	Unstable Land Forms
Septic Tank/Sump	100	50	25	50	25	50
Leaching Field	100	100	50	100	25	50

1. As measured from the line which defines the limit of 10 year frequency flood.
2. As measured from the edge of the water course.
3. As measured from the high-water line.
4. Where soil depth or depth to groundwater below the leaching trench are less than five feet, a minimum set back distance of 50 feet shall be required.