SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS

ADDENDUM NO. 1

TO THE BIDDING REQUIREMENTS, CONTRACT DOCUMENTS, GENERAL CONDITIONS, SPECIAL CONDITIONS, AND TECHNICAL SPECIFICATIONS FOR THE

CSA 70M WONDER VALLEY COMMUNITY CENTER KITCHEN AND RESTROOM REMODEL PROJECT

PROJECT NO.: 30.30.0149

May 7, 2024

The Contract Documents for the above referenced project are hereby amended in the following manner and the following manner only:

I. All provisions of this Addendum No. 1 are hereby incorporated into the Contract Documents, and Bidders shall account for all provisions pursuant to this Addendum No. 1 in submitting their bid proposals. **Each Bidder shall include a dated and signed copy of this Addendum with their sealed bid proposal**.

1. ITEM NO. 1: SECTION A – BIDDING REQUIREMENTS

Contractors are advised of the following change as it appears within Section A., Bidding Requirements, Instruction to Bidders of the Specifications

A. Contractors are advised under No. 3 – Submitting the Bid Proposal, Section C – Opening of Bids section of the bid package issued March 2024 shall be replaced with:

- Opening of Bids: Due to the Covid-19 pandemic and to ensure compliance with social distancing requirements, the bid opening will be conducted virtually via GoToMeeting. Bids (both paper and ePro) shall be opened and read aloud at the place and time set in the Advertisement For Bids. The Call in Number, Access Code, and link information for this bid opening is as follows.
  The Call in Number: +1(224) 501-3412
  Access Code: 126-779-149
  Link: https://meet.goto.com/126779149

2. ITEM NO. 2: SECTION F – TECHNICAL SPECIFICATIONS

A. Contractors are advised to replace Section 00 0110 TABLE OF CONTENTS issued on March 21, 2024, and replace it in its entirety included in this addendum.

B. Contractors are advised to replace Section 13 3419 METAL BUILDING issued on March 21, 2024, and replace it in its entirety included in this addendum.

3. ITEM NO. 3: SECTION G – CONTRACT DRAWINGS

Contractors are advised of the following changes as it appears within Section G – Contract Drawings.

A. Contractors are advised to replace the current Page 3 Site Improvements of the Contract Drawings issued March 21, 2024, and replace it with the revised Page 3 Site Improvements in this addendum.

B. Contractors are advised to replace the current Page 14 Site Improvements of the Contract Drawings issued March 21, 2024, and replace it with the revised Page 14 Site Improvements in this addendum.

C. Contractors are advised to replace the current E-1.0 of the Contract Drawings issued on March 21, 2024, and replace it with the revised E-1.0 included in this addendum.

D. Contractors are advised to replace the current E-2.0 of the Contract Drawings issued on March 21,2024, and replace it with the revised E-2.0 included in this addendum.

E. Contractors are advised to replace the current P-1.0 of the Contract Drawings issued on March 21, 2024, and replace it with the revised P-1.0 included in this addendum.

F. Contractors are advised to replace the current P-2.1 of the Contract Drawings issued on March 21, 2024, and replace it with the revised P-2.1 included in this addendum.

G. Contractors are advised to replace the current P-2.2 of the Contract Drawings issued on March 21, 2024, and replace it with the revised P-2.2 included in this addendum.

H. Contractors are advised to replace the current P-3.0 of the Contract Drawings issued on March 21, 2024, and replace it with the revised P-3.0 included in this addendum.

Below are questions and answers submitted as of submission of this addendum:

Question: 1. Can you supply a cut sheet for the 1 compartment sink Advance TABCO?

Answer: Model No. "FE-1812-18RorL-X or Equal" by Advance Tabco shall be added to Remarks for Fixture 1CS-1 on Fixture Schedule P-1.0.

Question: 2. What faucet to use for 3 compartment sinks?

Answer: Add the following "T & S BRASS AND BRONZE WORKS Model# B-2187 or Equal" in Remarks for Fixture 3CS-1 on Fixture Schedule P-1.0,

Question: 3. What is an acceptable faucet for L-1?

Answer: Added the following Chicago Faucet Model 420-T45E2805ABCP or Equal" in Remarks for Fixture L-1 Handicap Lavatory on Fixture Schedule P-1.0.

Question: 4. What Brand can I quote for the urinal American Standard or Proflo?

Answer: Per Section 22 4000, Part 2.1.A.7, American Standard and ProFlo are both approved manufacturers.

Question: 5. Can I quote American Standard for Water Closets?

Answer: Yes, American Standard is an approved manufacturer per Section 22 4000, Part 2.1. A.6.

Question: 6. Need Specs on Water Heater?

Answer: Add the following "Rheem 50 Gal. Commercial XG50T06HE40UO OR EQUAL" in Remarks for Fixture WH-1 on P-1.0.

Question: 7. Can you provide specs on the RO Unit Building?

Answer: Technical Spec Section 13 3419 is a general spec section for prefab or off-site manufactured metal buildings.
Question: 8. Any Foundation details for the Prefab Building? Any Connection Details?

Answer: The shop drawings for the foundation design, and connections to the slab should be provided by the contracted company. The company shall hire a structural engineer licensed in California for the design of the structure and concrete foundation. These shop drawings should be reviewed by the County for life safety and structural integrity and the architect for intent.

Question: 9. The Plans show the Mop sink is connected to the sanitary system and not the grease waste system. Please clarify.

Answer: That is correct, as shown on sheet P-2.1 the mop sink is connected to a waste line that goes directly to septic tank. Refer to the enclosed revised P-2.1 included in this addendum.

Question: 10. Are floor drains existing or do they need to be installed?

Answer: No floor drains are existing or shown on drawings to be installed.

Question: 11. Is there an existing drinking fountain where a new one is going to be mounted?

Answer: No, drinking fountain does not exist, however connections still exist on the wall before it was removed.

Question: 12. The Specified Reverse Osmosis System does not match the fixture schedule, please clarify which R.O. system is correct?

Answer: Add the following "Pure Aqua Model # BW-1.5K-140" in Remarks for Fixture RO-1 on P-1.0.

The above items modify the informal bid documents in the manner prescribed and, in that manner, only. All other contract items will remain as originally intended. Contractor will sign/date this addendum and submit with their bid as acknowledgement of receiving and complying with this addendum.

Question: 13. Can I get a copy of the plan holder's list/sign in?

Answer: Enclosed included the mandatory pre-bid meeting sign-in sheet title "CSA 70M WONDER VALLEY COMMUNITY CENTER KITCHEN AND RESTROOM REMODEL PROJECT, Mandatory Pre-Bid Meeting Sing-In Sheet"

Enclosures:

- CSA 70M Wonder Valley Community Center Kitchen and Restroom Remodel Project, Mandatory Pre-Bid Meeting Sign-In Sheet, April 23, 2024
- Section 00 0110 TABLE OF CONTENTS
- Section 13 3419 METAL BUILDING
- Drawing E-1.0 dated April 23, 2024
- Drawing E-2.0 dated April 23, 2024
- Drawing P-1.0 dated May 6, 2024
- Drawing P-2.1 dated April 23, 2024
- Drawing P-2.2 dated May 6, 2024
- Drawing P-3.0 dated April 23, 2024
- Drawing Sheet 3 dated May 07, 2024
- Drawing Sheet 14 dated May 02, 2024

ISSUE DATE: May 8, 2024,

Date Acknowledged by Bidder: _____

By: Alfonso Fausto Digitally signed by Alfonso Fausto Date: 2024.05.08 13:45:39-07'00'

Alfonso Fausto, Project Manager
Department of Public Works - Special Districts
Project Management Division

By: _____

Bidders Company Name

_____

Bidders Signature

San Bernardino County

DEPARTMENT OF PUBLIC WORKS - SPECIAL DISTRICTS

Administrative Office ◆ Project Management Division

222 W. Hospitality Lane, San Bernardino, CA 92415-0450

Phone: (909) 386-8800

CSA 70M WONDER VALLEY COMMUNITY CENTER KITCHEN AND RESTROOM REMODEL PROJECT

Mandatory Pre-Bid Meeting Sign-In Sheet

Tuesday, April 23, 2024 – 10:00 a.m.

PLEASE PRINT ALL SIGN-IN INFORMATION CLEARLY

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
1	42020 WINCHESTER CA WAKE CO INC 92590	PRIME	951-200-5758
	ATTENDEE NAME		**EMAIL ADDRESS**
	TOM HANRAHAN		ESTIMATING@WAKECOINC.COM

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
2	Crown Contracting	Prime	760-203-1733
	ATTENDEE NAME		**EMAIL ADDRESS**
	Brandon Loiselle		brandon@crowncontracting.com

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
3	Caltec Corp	Prime	7147171638
	ATTENDEE NAME		**EMAIL ADDRESS**
	Dannie Soriano		Henry@calteccorp.com

CSA 70M WONDER VALLEY COMMUNITY CENTER KITCHEN AND RESTROOM REMODEL PROJECT
April 23, 2024

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
4	Ramco Plumbing	Prime	909. 466. 4600
	ATTENDEE NAME		EMAIL ADDRESS
	Edward W. Crawley		Edward@ramcoplumbingandrooter.com Ryan@ramcoplumbingandrooter.com

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
5	Diamond Const Inc	Prime	John@DCC-inc.com 951-453-6171 John Abbaud
	ATTENDEE NAME		EMAIL ADDRESS
	MI		

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
6	MBE Construction	Prime	951-845-5438
	ATTENDEE NAME		EMAIL ADDRESS
	Marco Rodriguez		marco@mbreyinc.com

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
7	K.N.C construction	Prime	KNCONSTRUCTION@AOL
	ATTENDEE NAME		EMAIL ADDRESS

CSA 70M WONDER VALLEY COMMUNITY CENTER KITCHEN AND RESTROOM REMODEL PROJECT
April 23, 2024

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
8	ECI	Prime	760 403 6716
	ATTENDEE NAME		EMAIL ADDRESS
	Mike Greene		mike@elycompany.com

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
9	Hoth Plumbing Co	sub	760 247 7474
	ATTENDEE NAME		EMAIL ADDRESS
	Chad Hoth		chad@hothplumbing.com

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
10			
	ATTENDEE NAME		EMAIL ADDRESS

	COMPANY NAME	PRIME or SUB	CONTACT PHONE NUMBER
11			
	ATTENDEE NAME		EMAIL ADDRESS

DOCUMENT 00 0110
TABLE OF CONTENTS

SECTION 13 3419
METAL BUILDING

PART 1 - GENERAL

BACKGROUND

PRPOSED DESIGN: This building shall be for the County of San Bernardino Special Districts Division and located at the Wonder Valley Community Center.

The intent is to construct an equipment enclosure building with appurtenances (doors, minimal ventilation, and lighting for maintenance. The building shall accommodate the existing and new equipment per the architectural drawings.

The architectural and plumbing engineering drawings shall serve as the reference regarding loads, dimensions, and appurtenances.

THE REQUIREMENT-

GENERAL: Design-, fabricate, supply, and erect a metal building for equipment enclosure purposes with nominal dimensions of approximately 12-feet by 26 feet.

The building size and shape shall match that of the architectural plans.

This includes roof slope.

This includes the building location.

The building shall have appurtenances such as doors, vents, and lightning.

Construction of the building foundation footings and concrete slab are included in the scope. The foundation and slab shall match the architectural plans with the exception of any specific footing and anchorage requirements needed for the metal building foundation.

This includes the approaches to the swing doors as shown on the architectural plans.

REFERENCES

MBMA, Metal Building Systems Manual, Metal Building Manufacturers Association

AISC S100, North American Specification for the Design of Structural Members, American Institute of Steel Construction

AISC 360, Specification for Structural Steel Buildings, American Institute of Steel Construction

AISC, Steel Design Guide Series 3, Serviceability Design Considerations for Low-Rise Buildings, , American Institute of Steel Construction

ASTM A36, Standard, “Specification for Carbon Structural Steel”

ASTM A153, Standard, “Specification for Zinc Coating (Hot Djp) on Iron and Steel Hardware”

ASTM A307-07b, Standard, “Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength”

ASTM A32510, Standard, “Specification for Structural Bolts, Steel, Heat Treated, 120/105 ksi Minimum Tensile Strength.”

ASTM A463-006, Standard, "Specification for Steel Sheet, Aluminum-Coated by the Hot-Dip Process"

ASTM A475-03, Standard "Specification for Zinc-Coated Steel Wire Strand"

ASTM A49010a, Standard, "Specification for heat Treated Steel Structural Bolts, 150ksi Minimum Tensile Strength."

ASTM A50010, Standard, "Specification for Cold-Formed Welded and Seamless Structural Tubing in Rounds and Shapes"

ASTM A501-07, Standard, "Specification for Hot-Formed Welded and Seamless Carbon Steel Structural Tubing"

ASTM A529, Standard, "Specification for High-Strength Caron Manganese Steel of Structural Quality"

ASTM A572, Standard "Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel"

ASTM A653, Standard "Specification for Steel Sheet, Zin Coated (Galvanized) or Ziinc-Iron- Alloy Coated (Galvannealed) by the Hot-Dip Process"

ASTM A792. Standard "Specification for Steel Sheet,55% Aluminum Zinc Alloy-Coated by the Hot-Dip Process"

ASTM A1011, Standard "Specification for Steel Sheet and Strip Hot Rolled Carbon, Structural High Strength Low-Alloy and Hight Strength Low-Alloy with Improved Formability"

ASTM C665, Standard "Specification for Mineral-Fiber Insulation for Light Frame Construction and Manufactured Housing"

ASTM E1514 Standard, "Specification for Structural Standing Seam Steel Roof Panel Systems"

ASTM E159205, Standard, "Specification for Structural Performance of Sheet Metal Roof and Siding Systems byl Uniform Static Air Pressure Difference"

ASTM E1646 Standard, "Test Method for Water Penetration of Exterior Metal Roof Panel Systems by Uniform Static Air Pressure Differences"

ASTM E1680, Standard "Test Method of Rate of Air Leakage through Exterior Metal Roof Panel Systems"

AWS A2.4, Standard Welding Symbols

AWS D1., Structural Welding Code, Steel

AA. AWS D1.3, Structural Welding Coade, Sheet Steel

BB. NAIMA 202, Standard for Flexible Fiberglass Insulation Systems in Metal Buildings

CC.Steel Joist Institute (SJI) – Standard Specifications, Load Tables and Weight Tables forSteel Joists and Joist Girders

DD.Society for Protective Coatings (SSPC) SP-2- Specification for Hand Tool Cleaning (Part of Steel Structures Painting Manual)

EE. SSPC, Paint 20 Zinc-Rich Primers (Type I "Inorganic", and Type II Organic" FF. AI. UL 580 – Tests for Uplift Resistance of Roof Assemblies

GG. AAMA/WDMA/CSA 101/I.S.2/A440 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights

HH.Electrical. Codes and Standards:

NEC National Fire Protection Agency (NFPA) – 70 National

Electrical Code (NEC), latest adopted version.

CCR Title 8, Industrial Relations, Subchapter 5, Electrical

Safety Orders, California Code of Regulations

Electrical Commercial Standards:

ANSI B16.5 Pipe Flanges and Flanged Fittings, Steel, Nickel

Alloy, and Other Special Alloys.

ANSI C80.1 Rigid Steel Conduit, Zinc Coated, specification for.

ANSI/UL 467 Grounding and Bonding Equipment, Safety Standard

NEMA WD-1-1.10 General Requirements for Wiring Devices.

NEMA AB-1 Molded Case Circuit Breakers

NEMA PB-1 Panelboards.

NEMA KS-1 Enclosed Switches 9. ICEA S-66-524
ICEA S-61-402 Thermoplastic - Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy.

ICEA S-19 Rubber - Insulated Wire and Cable for the Transmission and Distribution of Electrical Energy.

JJ. CONCRETE STANDARDS

ACI 117 Standard Tolerances for Concrete Construction Materials

ACI 211.1 Selecting Proportions for Normal, Heavyweight, and Mass Concrete

ACI 214 Evaluation of Strength Test Results for Concrete

ACI 301 Structural Concrete for Buildings

ACI 304 Measuring, Mixing, Transporting, and Placing Concrete

ACI 305 Hot Weather Concreting

ACI 309 Consolidation of Concrete

ACI 318 Building Code Requirements for Reinforced Concrete

ASTM C31 Making and Curing Concrete Test Specimens in Field

ASTM C33 Concrete Aggregates

ASTM C39 Compressive Strength of Cylindrical Concrete Specimens

ASTM C94 Ready-Mixed Concrete

ASTM C150 Portland Cement

DESIGN REQUIREMENTS

System: The building shall be designed by the manufacturer as a complete system. All components of the system shall be supplied or specified by the same manufacturer.

Codes: The design shall be in accordance with ASCE 7 and the California Building Code, 2019 Edition. The design will be subject to review by The County of San Bernardino's Special Districts structural consultant and the project architect.

Design Loads: The dead load shall be the weight of the Metal Building System and as determined by the system manufacturer. Live loads and lateral loads, including seismic, and wind, shall be determined by a licensed structural engineer. The manufacturer shall determine if additional load requirements are necessary due to the blowers, doors, or other appurtenances. The entire building envelope shall be designed to take the design load. This includes roofing, siding, doors. The County will not be utilizing the building framing for hoists or hanging equipment.

Appurtenances: The system shall be designed with door, roof pitch, and any other appurtenances as shown on the architectural plans. This includes location, size, clearances, and equal products.

Structural shapes of proper design and size shall be designed to reinforce openings and to carry imposed loads.

Thermal effects: Standing Seam roof panels shall be free to move in response to expansion and contractions forces resulting from temperature variations. Assembly to permit movement of components without buckling, failure of joint seals, undue stress on fasteners, or other detrimental effects, when subject to an annual extreme temperature range of 24 to 112 degrees Fahrenheit and 45 degrees daily.

Consider the site features and adjacent buildings in the design.

Provide for a neat, architectural appearance.

SUBMITTALS

Engineering: All manufacture drawings and design calculations shall bear the professional seal land signature of a licensed professional engineer registered in the State of California. Design calculations and notes shall be submitted.

Submit anchor bolt placement plans, column reactions, and specific footing requirements in advance of the erection drawings. Architect and engineer will finalize the slab and foot design based upon accepted submittals.

Shop and/or Erection Drawings: Indicate assembly dimensions, locations of structural members, connections, attachments, openings, cambers, loads and appurtenance assemblies; wall and roof system dimensions, panel layout, general construction details, anchorages and method of anchorage, installation: framing anchor bolt settings, sizes, and locations from datum, foundation loads; indicate field weld connections with AWS A2.4 welding symbols, indicate net weld lengths.

Concrete: Submit concrete mix and source.

Finishes: Submit information on finishes, paints, and trims for review and selection.

Appurtenances: Submit manufacturer information on doors, vents, exhaust fan, electrical (conduit, conductors, junction boxes, switches, and receptacles), lights, and sealants.

Manufacturer's Installation Instructions: Indicate preparation requirements, assembly sequence, and specific requirements.

QUALITY ASSURANCE

Fabricate structural steel members in accordance with MBMA Metal Building Systems Manual, and, for items not covered, AISC – Specification for Structural Steel Buildings.

QUALIFICATIONS

Manufacturer: The building manufacturer shall have a minimum of 7 years' experience in the manufacture of steel building systems.

Design: Structural framing and covering shall be the design of a licensed Professional Engineer experienced in design of this work.

Erector: Erector shall be a division of the steel building manufacturer or authorized and supervised by the steel building manufacturer. The erector shall have specialized experience in the erection of steel building systems for a period of at least 5 years.

The contracting and contractor licensing requirements in the General Conditions must be met.

FIELD MEASURMENTS

Verify that the field measurements are as indicated on the architectural drawings.

WARRANTY

Provide a building materials warranty of 15 years.

Provide a building workmanship warranty of 7 years in addition to the bonding requirements.

Provide and transfer all appurtenance's, such as doors, ventilation fan, and light fixtures, warranties to the County of San Bernardino.

ADMINISTRATION

Nomenclature shall conform to the MBMA Metal Building Systems Manual.

Coordination and administration of the work shall be in accordance with the MBMA Metal Building Systems Manual – Chapter IV Common Industry Practices.

PART 2 - PRODUCTS

GENERAL:

Manufacturer's standard fasteners must be compatible with panel material and performance level requirements.

SECTION 13 3419
METAL BUILDING

MATERIALS – ROOF SYSTEM

Sheet Steel Stock: coated according to manufacturer's design to meet performance requirements.

Insulation: Minimum R value of 8, Whie Vinyl facing UL flame spread classification of 25 or less.

Through Fastened Roofing or Standing Seam Roofing, sealed to meet performance requirements and having a UL 580, Class 90 uplift rating. Minimum thickness per manufacturer's requirements to meet performance.

Soffit Panels: If used, minimum gauge to meet performance requirements; color as selected from manufacturer's standards.

Closures: Manufacturers standard type, closed cell or metal.

Fasteners: Manufacturer's standard type, size and design to maintain load and weather tightness requirements.

Sealant: Manufacturer's standard type for performance requirements.

Exterior Surfaces of Roof Panels: Precoated steel of polyester or silicone polyester finish; color as selected from manufacturer's standard colors.

Interior Surfaces of Roof Panels: Precoated steel with wash coat of polyester, acrylic, or silicone polyester per manufacturer's standard finish.

MATERIALS – FRAMING

Per manufacturer's design meeting AISC standards.

Clean and prepare framing in accordance with SSPC-SP2 as a minimum. Framing members shall be factory primed with the manufacturer's standard rust-inhibiting primer.

Fabricate hot rolled members in accordance with AISC Specification for pipe, tube and rolled structural shapes.

Fabricated cold formed members in accordance with MBMA Metal Building Systems Manual, Chapter IV Common Industry Practices

Fabricate build-up members in accordance with MBMA Metal Building Systems Manual, Chapter IV Common Industry Practices.

WALL SYSTEM

Sheet Steel Stock: Galvanized coated to G90 or aluminum-zinc coated to Az55 as required by manufacturer's design.

Wall Insulation: Minimum R8, white vinyl facing, Ul Flame spread of 25 or less.

Siding: Minimum metal thickness per manufacturer's design to meet performance requirements.

Liner: Minimum metal thickness per manufacturer's design to meet performance requirements.

Closures: Manufacturer's standard type, closed cell or metal.

Fasteners: Manufacturer's standard type. Size and design to maintain load and weather tightness requirements.

Exterior Surfaces of Wall Panels: Precoated steel of polyester, acrylic, or silicone polyester selected from manufacturer's standard colors.

Interior Surfaces of Wall Panels: Precoated steel with wash coat of polyester, acrylic, silicone polyester per manufacturer's standard finish.

MATERIALS – TRIM

Flashings, Internal and External Corners, Closure Pieces: Same material and finish as adjacent material, profile to suit system and color as selected from manufacturer's standards.

MATERIALS – DOORS AND FRAMES

PERSONNAL DOOR

The door and frame shall be designed to meet the wind load provisions. The door shall be designed using beam action to transfer loads from jamb to jamb. The door shall be furnished and installed completely and shall be equivalent to the door shown on the Architectural drawings/plans. The Door shall be finished equivalent to the requirements of the Architectural drawings/plans.

MATERERIALS LOUVERS

Louvers shall be provided as shown on the referenced Architectural drawings and AMCA 500-L. The louvers shall be wind-driven rain louver effectiveness "B".

Provide all hardware, sealants, and fasteners for installing the louvers.

MATERIALS FOUNDATION, FOOTING AND SLAB

SLAB

Concrete: Provide concrete in accordance with the Shop Drawings prepared by Manufacturer, Structural design, and Architectural drawings and per any additional requirements in the final foundation design.

Reinforcing: Provide reinforcing in accordance with the Shop Drawings prepared by Manufacturer, Structural design, and Architectural drawings and per any additional requirements in the final foundation design.

FOUNDATION (FOOTING)

Concrete: Provide per final design, based upon building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

Reinforcing: Provide per final design, based upon building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

Anchorage: Provide foundation anchors per final foundation design and the manufacturer's standard.

MATERIALS ELECTRICAL

SECTION 13 3419
METAL BUILDING

Provide and install electrical conduit, receptacles, switches, and panel board as shown on the architectural plans.

All equipment furnished by the CONTRACTOR shall be listed by and shall bear the label of Underwriters' Laboratories, Incorporated, (UL) or of an independent testing laboratory acceptable to OCSD.

OUTLET AND DEVICE BOXES

General: Provide boxes not less than 2-inches deep, unless shallower boxes are required by structural conditions and are specifically accepted by the ENGINEER. Do not use box extensions to provide wiring space required by the NEC. For hollow masonry construction, provide boxes of sufficient depth so that conduit knockouts or hubs are in the masonry void pace.

Provide heavy duty fiberglass device boxes and junction boxes. Provide fiberglass boxes with gasketed, watertight covers and stainless-steel screws. Provide boxes with conduit hubs and any required mounting lugs. Provide a box suitable for the conditions encountered at each outlet in the wiring or raceway system and sized in with the NEC. Use the listed types unless otherwise indicated or accepted.

JUNCTION AND PULL BOXES

Utilize NEMA 4X 316 stainless steel or fiberglass UV-rated watertight enclosures for outdoor locations.

WIRING DEVICES

Switches

General Use Switches: Provide specification grade, totally-enclosed, ac type, quiet tumbler switches meeting NEMA WD 1 performance standards and Federal Specification W-S-896E, and capable of control of 100 percent tungsten filament and fluorescent lamp loads. Use switches rated at 15 amps minimum, 120/277 volts. Switches shall have screw terminals.

Receptacles

Single. Duplex. Quad: Provide specification grade receptacles meeting NEMA WD performance standards and Federal Specification W-C-596 and having a contact arrangement such that contact is made on two sides of each inserted blade without detent. Use two-pole, three-wire grounding type receptacles with screw type wire terminals.

Device Plates: Provide plates fitting closely and tightly to the box on which they are to be installed. On surface mounted boxes, provide plates, which do not extend beyond the sides of the box unless the plates do not have sharp corners or edges.

PANELBOARD.

General: Provide circuit breaker panelboard meeting standards established by UL,NEMA PB 1, and the NEC. Provide panels UL labeled for that use. Provide

panelboards and circuit breakers suitable for use with 75 degrees C wire at full NEC 75 degrees C ampacity.

Cabinets: Furnish boxes large enough to provide a minimum wiring gutter space on both sides and top and bottom of 4-inches by 4-inches minimum. Provide flush or surface mounted boxes as indicated manufactured with reinforced steel frame and code-gauge, hot-dip galvanized sheet steel. Utilize front trim the same size as the box for surface mounted panelboards and 3/4-inch larger all around than the box for flush mounted panelboards. Panel covers shall be installed with direct screw connections.

Adjustable clamps shall not be used. Utilize fronts having doors with concealed hinges and flush type lock and catch device.

Circuit Breakers: Furnish indicating type molded circuit breakers providing ON/OFF and TRIPPED positions of the operating handle. Furnish thermal magnetic, quick- make, quick-break circuit breakers which are noninterchangeable in accordance with NEC. Do not use tandem or dual circuit breakers in normal single-pole spaces. Do not use single-pole circuit breakers with handle ties where multiple circuit breakers are indicated. Provide circuit breakers meeting requirements of NEMA AB 1.

PART 3 - EXECUTION

EXECUTION GENERAL

Verify site conditions prior to design. Verify that the foundation, floor slab, and anchors are placed correctly and properly squared before erection. Correct unsatisfactory conditions. Provide access to the work for inspection by SCWD. Material Handling, Delivery, and Storage

Prefabricated components, sheets, panels, and other manufactured items shall be delivered and stored so that they cannot be damaged or deformed.

If subjected to water accumulation, materials shall be stored in such a manner so that they can drain freely.

Sheets and panels shall not be stored in contact with other materials that might cause staining or corrosion.

SLAB AND FOUNDATION/FOOTING CONSTUCTION

SLAB

Concrete: Construct per building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

Reinforcing Steel: Place reinforcing steel per building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

FOUNDATION/FOOTING

General: Construct per final foundation plan as completed by building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

Concrete: Construct per final foundation plan as completed by building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

Reinforcing Steel: Construct per final foundation plan as completed by building manufacturer's requirements and as done by metal building manufacturer foundation engineer.

Anchors: Place anchors per final design. Verify placement prior to placing concrete.

ERECTION FRAMING

Erect framing in accordance with MBMA Metal Building Systems Manual, Chapter IV Common Industry Practices and instruction provided by fabricator.

Use templates for accurate setting of anchor rods. When required, level bearing plate area with steel wedges, shims, or grout. Check all previously placed anchorages.

Erect building frame true and level with vertical members plum and bracing properly installed. Maintain structural stability of frame during erection.

Ream holes requiring enlargement to admit bolts. Burned holes for bolted connections are not permitted.

Tighten bolts and nuts in accordance with "Specifications for Structural Joints Using High- Strength Bolts."

Furnish temporary guys and bracing where needed for squaring, plumbing, and securing the structural framing against loads due to erection and erection operation. Bracing furnished by the manufacturer cannot be assumed to be adequate during erection and is not to be used to pull frames into plumb condition. The temporary guys, braces, falseworks, and cribbing shall be removed upon completion.

Do not field cut or modify structural members without approval of the metal building manufacturer.

After erection, prime welds, abrasions, and surfaces needing touchup.

ERECTION – WALL AND ROOFING SYSTEMS

Install all wall and roofing systems in accordance with manufacturer's instructions and details.

Exercise care when cutting prefinished material to ensure cuttings do not remain on finish surface. Protect factory finishes from damage.

Fasten cladding system to structural supports, using proper fasteners that are aligned level and plumb.

Set purlins and girts at right angle and bolt to appropriate clips. Attach clips as required to satisfy design loads and as shown or erection drawings.

Place screw down roof panels at right angle to purlins and girts. Attach and plumb wall panels as shown on erection drawings. Maintain consistent module overage for entire length of wall. Apply roof panel side and end lap sealant between panel ends and side laps to provide water-tight installation.

Place standing seam roof panels at right angle to purlins. Attah with sliding concealed clip where expansion and contraction must be accounted for. Lap panel ends per manufacturer's standard and panel notch. Place end laps above purlin with backup plate so panel end-lap fasteners do not penetrate purlin. Follow manufacturer's instructions for fastening and sealing end laps.

ERECTION – FLASHINGS AND TRIM

Install flashings and trim in strict accordance with manufacturer's instructions, using proper sheet metal procedures. Gutters, downspouts, ventilator louvers, and other sheet metal accessories shall be installed in a manner that provides positive anchorage to building and weather-tight mounting.

Sealants" Apply continuously and in accordance with sealant manufacturer's recommendations.

INSULATION

Insulation shall be installed concurrently with installation of roof and wall panels.

Insulation shall be located on inside of roof and wall sheets, extending across the flange of purlin or girt members and held taut and snug to panels with retainer clips.

Retainer strips shall be installed at each longitudinal joint in such a manner that the strips are straight and taut and can hold the insulation firmly in place.

DOORS

PERSONNAL

Doors, frames, and related hardware shall be installed in accordance with manufacturer's instructions and industry standards.

Frames shall be securely anchored to building structure.

Hardware shall be adjusted to provide proper operation.

LOUVERS

Framed openings shall be securely attached to building structural framing.

Perimeter of each unit shall be sealed with the elastomeric sealant used for panels.

The operating louvers hardware shall be adjusted and lubricated, if required, to provide proper operation.

ELECTRICAL CONSTRUCTION

GENERAL: Refer to notes on sheet 9 of ARCON reference plans. Follow referenced electrical codes and standards. Insurance work is neat and tidy. Locate switches, lights, and receptacles as shown on ARCON reference plans.

OUTLET RECEPTACLES AND DEVICE BOXES

Locations indicated are approximate. Study the Drawings in relation to spaces and outlet surroundings. When necessary, with the approval of the ENGINEER, relocate outlets to avoid interference with structural features.

Mount all boxes plumb and level. Use surface mounted boxes with surface mounted conduits.

Install boxes in a secure, substantial manner supported independently of conduit by attachment to the building structure or a structural member. Fasten boxes with bolts and machine screws or welded, threaded studs on steelwork. Boxes embedded in concrete.

Provide lighting fixtures with separate junction boxes. Where boxes support fixtures, provide proper means of attachment with adequate strength.

Open no more knockouts in boxes than are required. Seal any used openings in box.

JUNCTION AND PULL BOXES

Where indicated on the Drawings, and where necessary to terminate, tap-off, or redirect multiple conduit runs, provide and install appropriately designed junction boxes. Furnish and install pull boxes where necessary in the raceway system to facilitate conductor installation.

Make all boxes accessible. Do not install boxes in finished areas unless accepted by the ENGINEER. Mount all boxes plumb and level.

Mount boxes in a secure, substantial manner, supported independently of conduit by attachment to the building structure or a structural member. Fasten boxes with bolts machine screws or welded threaded studs on steelwork.

WIRING DEVICES

Switches: Mount switches at the accessible locations and heights. Mount switches for switch operation in the vertical position

Receptacles: Mount receptacles at heights indicated on the plans or as directed by Inspector. Ground receptacles to boxes with grounding wire, not by yoke or screw contact.

Install and mount the receptacles in accordance with the manufacturer's instructions and the applicable codes.

PANELBOARD

Mount panelboard securely where indicated, plumb, in-line, and square with walls. Unless otherwise indicated, mount panelboard with top of its cabinet approximately 6-feet above the floor. Provide a typewritten circuit directory under a metal-framed transparent plastic cover inside panelboard.

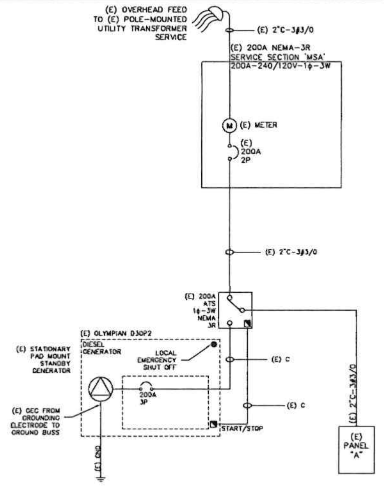
TOLERANCES

All work shall be performed by experienced workmen in a workmanlike manner to published tolerances.

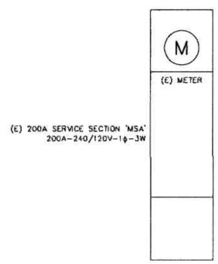
Install framing in accordance with MBMA Metal Building Systems Manual, Chapter IV Common Industry Practices.

CLEANING AND TOUCH-UP

All component surfaces shall be cleaned. Abrasions, marks, skips, and other defects to finished surfaces shall be touched up with the same type of finish.



S I N G L E   L I N E   D I A G R A M



S W I T C H G E A R   E L E V A T I O N

EXHAUST FAN

MARK	MFGR AND MODEL	LOCATION	SERVICE	TYPE	FAN: AIRFLOW CFM	FAN: ESP "WC	FAN: BHP (W)	FAN: RPM	MOTOR: HP (WATTS)	MOTOR: V/PH	MOTOR: RPM	SONES	OPER WT LBS	REMARKS
EF-1	LOREN COOK CP10011	ROOF	KITCHEN HOOD GREASE EXHAUST	DIRECT DRIVE CENTRIFUGAL	1243	0.375	0.55	1140	3/4 (560)	115/1	-	-	44	FURNISH WITH RAISED, VENTED CURB, HINGED BASE FOR ACCESS AND CLEANING, GREASE BOX AND CUP, DISCONNECT
EF-2	LOREN COOK GC-146	RESTROOMS	EXHAUST FAN	IN LINE CENTRIFUGAL	60	0.375	FRACT	900	(86)	115/1	-	1.5	15	FURNISH WITH BACK DRAFT DAMPER; ANODIZED GRILLE, CURB-MOUNTED ROOF JACK WITH 1/4" BIRD SCREEN, DISCONNECT
EF-3	LOREN COOK GC-146	RESTROOMS	EXHAUST FAN	IN LINE CENTRIFUGAL	60	0.375	FRACT	900	(86)	115/1	-	1.5	15	FURNISH WITH BACK DRAFT DAMPER; ANODIZED GRILLE, CURB-MOUNTED ROOF JACK WITH 1/4" BIRD SCREEN, DISCONNECT

TERMINATION DEVICES

MARK	MFGR AND MODEL	LOCATION	SERVICE	MOUNTING TYPE	MATERIAL	FRONT BLADES	OPPSED BLADE DAMPER	REMARKS
ER-1	TITUS 300RS	RESTROOMS	EXHAUST REGISTER	SURFACE MOUNT	STEEL	HORIZONTAL	YES	FURNISH IN COLOR SPECIFIED BY ARCHITECT
SR-1	TITUS 300RL	RESTROOMS	SUPPLY REGISTER	SURFACE MOUNT	STEEL	VERTICAL	NO	FURNISH IN COLOR SPECIFIED BY ARCHITECT

M E C H A N I C A L   S C H E D U L E

SCOPE OF WORK

1. MAINTAIN BUILDING ELECTRICAL SERVICES ON SITE AND IN SPACE IN ENTIRETY
2. MAINTAIN ELECTRICAL SERVICES (BREAKERS, CONDUIT, FEEDERS) FROM BUILDING ELECTRICAL SERVICE TO DISTRIBUTION BOARD, PANELS ON SITE / IN SPACE UNLESS OTHERWISE NOTED
3. PROVIDE CIRCUITING TO EXHAUST FANS
4. PROVIDE CIRCUITING TO (N) REVERSE-OSMOSIS SYSTEM AND MEASURES AS REQUIRED FOR OPERATION
5. PROVIDE NEW TITLE 24 COMPLIANT LIGHTING, LIGHTING CONTROLS AND ASSOCIATED CIRCUITING
6. EXHAUST FAN, ASSOCIATED MOUNTING HARDWARE BY MECHANICAL CONTRACTOR

SHEET INDEX

E-1.0	LEGEND, SCOPE OF WORK, SHEET INDEX, SINGLE LINE DIAGRAM, SWITCHGEAR ELEVATION, MECHANICAL SCHEDULE
E-1.1	PROJECT NOTES - ELECTRICAL
E-2.0	SITE PLAN
E-2.1	DEMOLITION LIGHTING PLAN
E-2.2	RENOVATION POWER PLAN
E-2.3	RENOVATION LIGHTING PLAN
E-2.4	ROOF PLAN, PANEL SCHEDULE
E-3.0	TITLE 24

CONTRACTOR SHALL VERIFY AVAILABILITY OF ALL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION

LEGEND

SYMBOL / DESCRIPTION

- ROUND DUCT RISER UP / DOWN
- SUPPLY / RETURN / EXHAUST DUCT RISER UP
- SUPPLY / RETURN / EXHAUST DUCT RISER DOWN
- CEILING DIFFUSER, RETURN GRILLE, EXHAUST GRILLE
- LIGHT FIXTURE, EXIT, SINGLE FACED, UNIVERSAL MOUNTED WITH DIRECTIONAL ARROWS
- LIGHT FIXTURE, EXIT
- DUPLEX RECEPTACLE, 20A, 120V, +15" AFF TO BOTTOM OF BOX OR AS NOTED; G- INDICATES GFI; I- INDICATES ISOLATED GROUND
- J — JUNCTION BOX, 4" x 1-1/2" SQUARE; TYP, UNO
- JUNCTION BOX, WALL MOUNTED, 4" x 1-1/2" SQUARE; TYP, UNO
- OS — OCCUPANCY SENSOR
- SWITCH, SINGLE (+48" UNO TO TOP OF BOX) X = DESIGNATED LUMINARIES CONTROLLED BY SWITCH
- SWITCH, MULTIPLE (+48" UNO TO TOP OF BOX) a = SWITCH ONE; b = SWITCH TWO
- OVERRIDE SWITCH - TIMED, 2 HOUR MAXIMUM OVERRIDE
- SWITCH: K=KEY OPERATED, M=MANUAL MOTOR, P=PILOT SWITCH, T=TIMER, D=DIMMING, L=ILLUMINATED
- S — DISCONNECT SWITCH; RATINGS AS NOTED
- F — FUSED DISCONNECT SWITCH; RATING AS NOTED
- A-1,3,5 — HOME RUN TO PANEL BOARD "A" CIRCUITS 1, 3, 5
- PANEL BOARD
- X/X — EQUIPMENT CALLOUT
- X/X-X — DETAIL CALLOUT
- L/X — LIGHTING FIXTURE DESIGNATION; LIGHTING FIXTURE L-X
- X — NOTE CALLOUT
- A — DENOTES PANELBOARD / SWITCHBOARD "A"

LINETYPE

- EXISTING (LIGHT)
- NEW (DARK)
- CONDUIT CONCEALED IN WALL OR CEILING; SIZE AS NOTED
- CONDUIT BELOW FLOOR OR GRADE OR IN SLAB; SIZE AS NOTED
- CONDUIT EXPOSED; SIZE AS NOTED
- A - 1 — BRANCH CIRCUIT
- CIRCUIT BREAKER
- 1/2" TICK MARKS INDICATE QUANTITY OF #12 AWG CONDUCTORS UNO, NO MARKS INDICATES 2 #12; LARGE SLASH DENOTES NEUTRAL; SLASH WITH DOT DENOTES CODE SIZED GROUND
- 1, #10 — MARK COUNT INDICATES QUANTITY, CONDUCTOR; SIZE AS NOTED

ABBREVIATIONS

(E)	EXISTING
(N)	NEW
(R)	RELOCATED
CFM	CUBIC FEET PER MINUTE
C.O.	CONDUIT ONLY FOR FUTURE CONNECTION; 3/4" OR AS NOTED
EF	EXHAUST FAN
ER	EXHAUST REGISTER
SA	SUPPLY AIR
SR	SUPPLY REGISTER
WL	WALL LOUVRE

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SAN BERNARDINO COUNTY DEPARTMENT OF PUBLIC WORKS SPECIAL DISTRICTS
222 WEST HOSPITALITY LANE, 2ND FLOOR
SAN BERNARDINO, CA 92415-0450
(SITE CONTACT - FRANK HAGGARD, 760-366-8415)
(EMAIL - FHAGGARD@SDD.SBCOUNTY.GOV)

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EDAINCORPORATED@AOL.COM
PREPARED UNDER THE SUPERVISION OF:
KEVIN M. FRIEDMAN — PROFESSIONAL ENGINEER — M-21267 R.C.E. No. — 6/30/2023 DATE

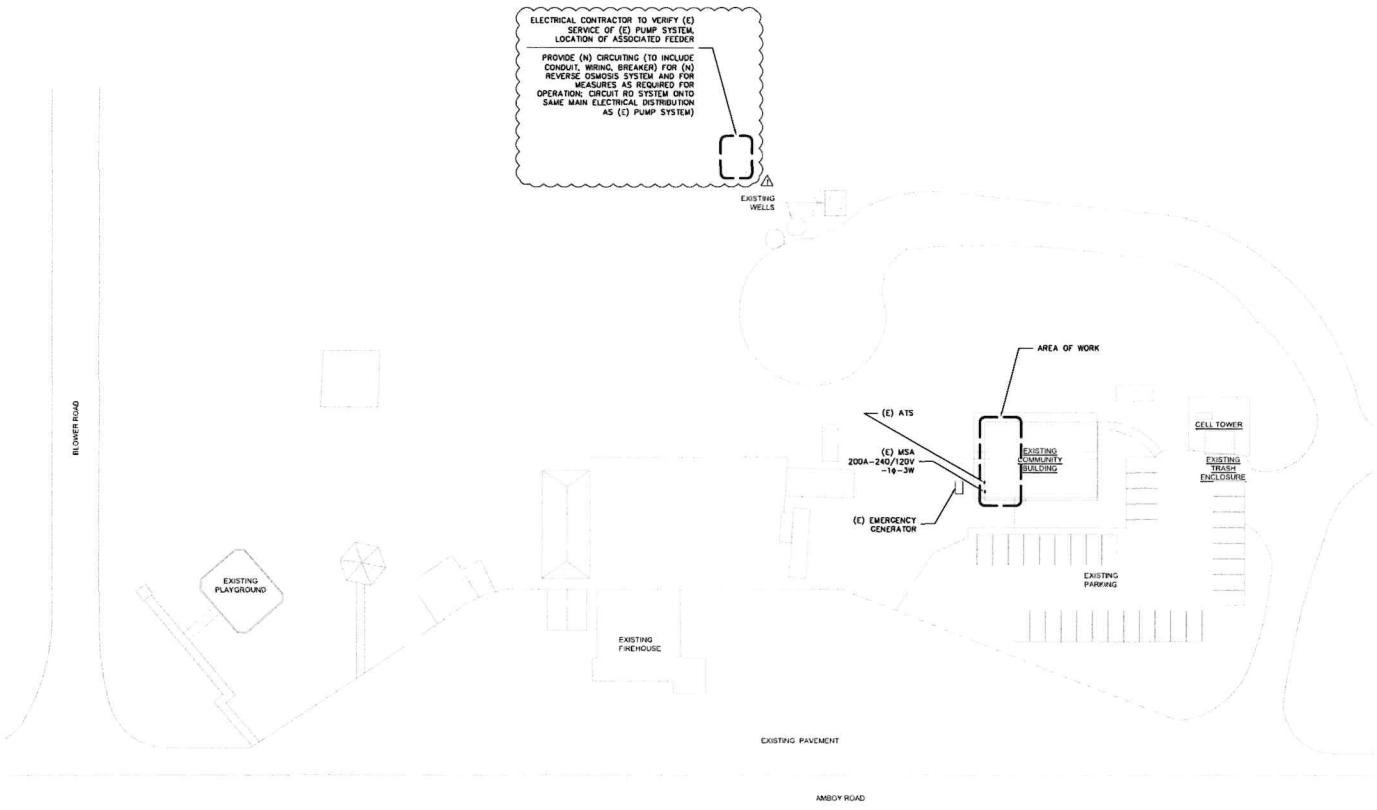
REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR	DATE
1	4/23/24	KN	ADDENDUM 1		

PLANS APPROVED BY: SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS
David Doublet — ASSISTANT DIRECTOR — DATE
APPROVALS: PROJECT MANAGER / OPS DIVISION MANAGER / PM DIVISION MANAGER — INITIAL — DATE

WONDER VALLEY RE-MODEL
80526 1/2 AMBOY ROAD
WONDER VALLEY, CA 92277
Alfonso.Fausto@SDD.SBCounty.gov
Phone: 909-386-8827 Cell: (909)771-1702

DWG NO. 30.30.0149
SHEET NO. E-1.0
SHEET 1 OF 6



NORTH

SITE PLAN

SCALE: 1/32"=1'-0"

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(EMAIL - FHAGGARD@SDD.SBCOUNTY.GOV))

ENGINEERING DESIGN ANALYSIS INCORPORATED
[redacted]
PREPARED UNDER THE SUPERVISION OF:
KEVIN M. FRIEDMAN — M-27297 — 6/30/2023
PROFESSIONAL ENGINEER — R.C.E. No. — DATE

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR.	DATE
1	6/23/24	KN	ADDENDUM 1		

PLANS APPROVED BY
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
Digitally signed by David Doublet
Date: 2024.05.08 15:57:36 -07'00'
ASSISTANT DIRECTOR — DATE

APPROVALS		INITIAL	DATE
	PROJECT MANAGER		
	OPS. DIVISION MANAGER		
	PM. DIVISION MANAGER		

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DWG NO. 30.30.0149
SHEET NO. E-2.0
SHEET 1 OF 1

UTILITY SCHEDULE

*WATER (FLUSH VALVE)	FIXTURE UNITS	GPM	FUTURE F.U.	TOTAL F.U.	TOTAL GPM	METER SIZE	STREET PRESSURE PSI	PRV SETTING PSI	WATER HARDNESS	WATER SIZING PSI/100'
	30	20	-	30	20	-	-	-	-	-
*SEWER/ STORM DRAIN	FIXTURE UNITS		BUILDING SEWER		LATERAL OR WYE		STREET SEWER		DESIGN SLOPE	
	8/24		4"/4"		-		-		1/4"/FT SLOPE UNLESS OTHERWISE NOTED	
GAS CFH	HOUSE PRESSURE	MAX LENGTH OF RUN	SPACE HEATING		WATER HEATING		DRYERS		TOTAL CFH	
	-	-	-		-		-		-	

* NO INCREASE IN CONNECTED LOAD TO WATER AND SEWER SERVICES FOR REMODEL OF SUBJECT SPACES; NO WATER CALCULATION PROVIDED HEREIN

FIXTURE SCHEDULE

MARK	SERVICE	CW	HW	W	V	REMARKS
AP-A	ACCESS PANEL	-	-	-	-	EXISTING; IDENTIFIED HEREIN FOR REFERENCE ONLY
DB-A	DISTRIBUTION BOX	-	-	-	-	DISTRIBUTOR BOX WITH KNOCK-OUT FOR HARDWARE FOR EVACUATION
HB-A	HOSE BIB	1/2"	-	-	-	EXISTING; IDENTIFIED HEREIN FOR REFERENCE ONLY
MS-A	MOP SINK	3/4"	3/4"	2"	1-1/2"	EXISTING; IDENTIFIED HEREIN FOR REFERENCE ONLY
SPT-A	SEPTIC TANK	-	-	6"/2"/6"	6"	EXISTING; IDENTIFIED HEREIN FOR REFERENCE ONLY
TP-A	TRAP PRIMER	1/2"	-	-	-	EXISTING; IDENTIFIED HEREIN FOR REFERENCE ONLY
1CS-1	1 - COMPARTMENT SINK	1/2"	1/2"	2"	2"	FE-1812-18RORL-X BY ADVANCE TABCO OR APPROVED EQUAL ADVANCE TABCO FAUCET MODEL K-101 8" SWING SPOUT
3CS-1	3 - COMPARTMENT SINK	1/2"	1/2"	2"	2"	ELKAY DEPENDABULT STAINLESS STEEL 16 GUAGE THREE COMPARTMENT SINK W/ 18" LEFT AND RIGHT DRAINBOARDS AND STAINLESS STEEL LEGS MODEL 14-3C16X20-2-18X T & S BRASS AND BRONZE WORKS Model# B 2187 FAUCET OR APPROVED EQUAL
DF-1	DRINKING FOUNTAIN	1/2"	-	2"	1-1/2"	ELKAY EZH2O BOTTLE FILLING STATION & VERSATILE BI-LEVEL ADA COOLER NON-FILTERED NON-REFRIGERATED STAINLESS MODEL EZSTLDDWSSK WALL-MOUNTED ANTIMICROBIAL, HANDS FREE, LAMINAR FLOW, REAL DRAIN 115V/60HZ
ET-1	EXPANSION TANK	-	-	-	-	ZURN XT-8 WATER THERMAL EXPANSION TANK
FS-1	FLOOR SINK	-	-	2"	1-1/2"	LIGHT COMMERCIAL FD2375 12X12 A.R.E. FLOOR SINK 6 SUMP DEPTH, CAST IRON BODY WITH WHITE ACID-RESISTING PORCELAIN ENAMEL INTERIOR COATING, ABS ANTI-SPLASH DOME STRAINER
GI-1	GREASE INTERCEPTOR	-	-	4"	3"	JENSEN PRECAST MODEL JP750G GREASE INTERCEPTOR, 750 GALLONS, EXTENSIONS, NO HUB PIPE ADAPTORS, FLOW CONTROL; SIZED FOR 11 FU'S CONNECTED
HS-1	HAND SINK	1/2"	1/2"	2"	2"	ELKAY SSP SUPER ECONOMY SERIES HAND SINK 17" WALL MOUNTED SEHS-17X 20 GAUGE, 300 SERIES STAINLESS STEEL; 8" BACKSPLASH WITH 2" RETURN, GOOSENECK FAUCET, 1-1/2" DRAIN OPENING, STRAINER AND FAUCET INCLUDED
L-1	HANDICAP LAVATORY	1/2"	1/2"	2"	1-1/2"	AMERICAN STANDARD DECLYN WALL-HUNG LAVATORY VITREOUS CHINA, CHICAGO FAUCET MODEL 420-T45E2805ABCP, FOR 0.5 GPM MAX FLOW (ASSE-1070)
RO-1	REVERSE OSMOSIS SYSTEM	-	-	-	-	PURE AQUA PW-1.5K-140; 1,000 GPD, 220V/1φ/60HZ, MAX. 1,400 PPM FEED WATER TDS, WITH POWDER COATED CARBON STEEL FRAME; (1) FRP PRESSURE VESSELS, (1) 4" TFC SPIRAL WOUND MEMBRANE, CHEMICAL DOSING SYSTEMS CDS-36-G-15
SB-1	SAMPLE BOX	-	-	4"	-	JENSEN PRECAST SAMPLE BOX MODEL 2432-2 WITH NO-HUB PIPE ADAPTORS, EXTENSIONS, GASKETED COVER
UR-1	URINAL	3/4"	-	2"	1-1/2"	PROFLO PF1815PT HIGH EFFICIENCY URINAL WASHOUT REAR OUTLET VITREOUS CHINA, 0.125 GPF, 3/4 TOP INLET SUD, 2" NPT INSIDE THREAD OUTLET SLOAN ROYAL .125 GPF ADA ELECTRONIC URINAL FLUSHOMETER
WC-1	WATER CLOSET	1-1/4"	-	3"	2"	PROFLO PF9401/PF9412 SERIES HIGH EFFICIENCY TOILET VITREOUS CHINA, 1.28 GPF
WH-1	WATER HEATER	-	-	3/4"	3/4"	RHEEM 50 GALLON WATER HEATER COMMERCIAL XG50T06HE40U0 OR APPROVED EQUAL

SCOPE OF WORK

1. MAINTAIN BUILDING DRAIN TO (AND INCLUDING) (E) SEPTIC SERVICE ON SITE; PROVIDE SEPTIC PLUMBING SERVICE FOR RE-VITALIZED SERVICE UPON PROJECT ACCEPTANCE BY OWNER
2. MAINTAIN WATER (CW) SERVICE ONTO SITE AND TO ISOLATION VALVE; PROVIDE (N) CW SERVICE FROM (AND INCLUDING) ISOLATION VALVE TO POINTS OF USE
3. PROVIDE WASTE AND VENT (W AND V) SERVICES FROM POINTS OF CONNECTION TO STUBS INTO SPACE TO EXISTING RESTROOMS, AND KITCHEN AREA
4. MAINTAIN CW AND DHW SERVICES TO EXISTING RESTROOMS, AND KITCHEN AREA
5. PROVIDE GREASE INTERCEPTOR WITH SAMPLING BOX
6. MAINTAIN WATER HEATER
7. MAINTAIN RESTROOM
8. PROVIDE NEW KITCHEN FIXTURES
9. KITCHEN APPLIANCES BY OWNER

SHEET INDEX

SHEET	SHEET TITLE
P-1.0	LEGEND, SCOPE OF WORK, SHEET INDEX, SCHEDULE
P-1.1	PROJECT NOTES
P-2.0	SITE PLAN
P-2.1	ENLARGED FLOOR PLAN
P-2.2	RO SYSTEM, SANITARY SEWER / BUILDING DRAIN / SEPTIC SCHEMATICS
P-3.0	ISOMETRICS
P-4.0	DETAILS

UTILITY CONTACT INFORMATION

1. STATIC WATER PRESSURE INFORMATION: N/A
2. PUBLIC WORKS DEPARTMENT (ENGINEERING): N/A
3. GAS SERVICE INFORMATION: N/A

CONTRACTOR SHALL VERIFY AVAILABILITY OF ALL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION

REFIT OF PLUMBING SERVICES RESULTS IN NO NET INCREASE IN CONNECTED FIXTURE UNITS FOR WASTE AND COLD WATER SERVICES

LEGEND

SYMBOL	DESCRIPTION
	FLOOR SINK
	FLOOR DRAIN
	CLEANOUT TO GRADE
	FLOOR CLEANOUT
	WALL CLEANOUT
	PRESSURE REDUCING VALVE / GAS REGULATOR
	SHUT-OFF VALVE
	GAS SHUT-OFF VALVE
	SHUT-OFF VALVE (RISER VIEW)
	CHECK VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	PLUG VALVE
	THERMOMETER
	PRESSURE GAUGE
	UNION
	POINT OF CONNECTION
	POINT OF DISCONNECTION
LINETYPE	
	EXISTING SERVICE (LIGHT) / EXISTING HARDWARE (NOT FILLED)
	NEW SERVICE (DARK) / NEW HARDWARE (FILLED)
	WASTE BELOW GRADE FLOOR
	WASTE ABOVE GRADE FLOOR
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	GAS PIPING
D	DRAIN
CD	CONDENSATE
ABBREVIATIONS	
(E)	EXISTING
(N)	NEW
(R)	RELOCATED
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BFP	BACKFLOW PREVENTER
CW	COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DL	DEVELOPED LENGTH
DN	DOWN
FU	FIXTURE UNIT
G	GAS
GPM	GALLONS PER MINUTE
GR	GAS REGULATOR
MPG	MEDIUM PRESSURE GAS
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
ST	STORAGE TANK
V	VENT
VTR	VENT THROUGH ROOF
W	WASTE
WC	WATER CLOSET
SS	SANITARY SEWER
WH	WATER HEATER

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PREPARED UNDER THE SUPERVISION OF:
KEVIN M. FRIEDMAN — M-27267 — 6/30/2025
PROFESSIONAL ENGINEER — R.C.E. No. — DATE

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR	DATE
1	05/06/24	KN	ADDENDUM 1		
2	05/07/24		ADDENDUM 2		

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS
David Doublet
ASSISTANT DIRECTOR — DATE

APPROVALS	INITIAL	DATE
PROJECT MANAGER		
OPS. DIVISION MANAGER		
PM. DIVISION MANAGER		

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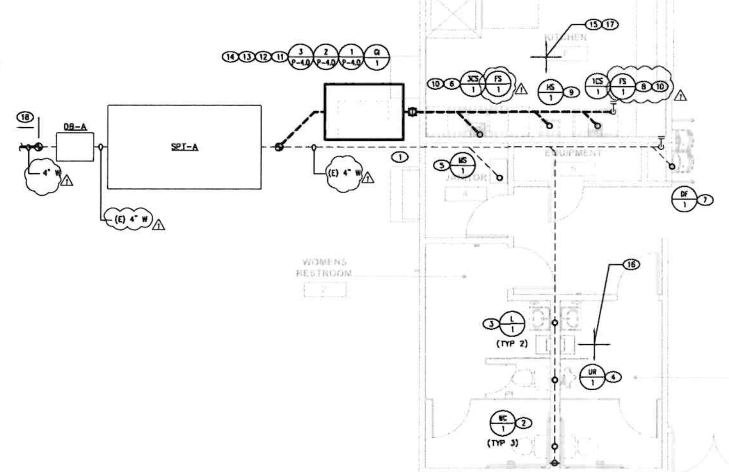
Phone: 909-386-8827 Cell: (909)771-1702

DWG NO. 30.30.0149
SHEET NO. P-1.0
SHEET OF



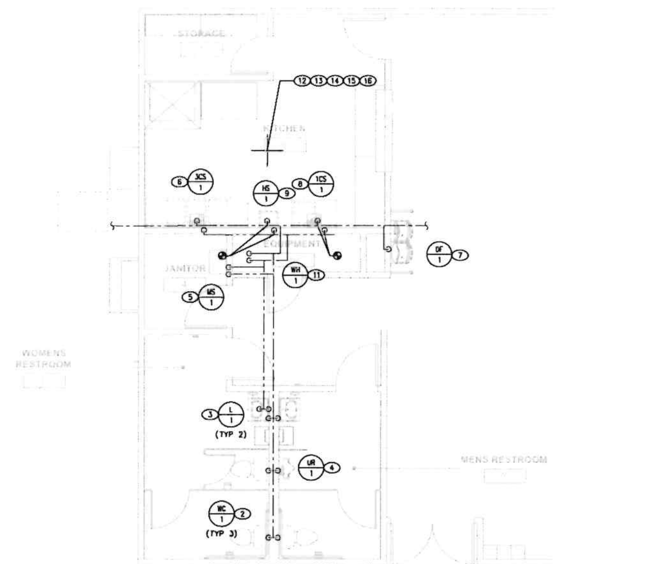
NOTES:

1. MAINTAIN 4" W SERVICE FROM (E) W SERVICE ON SITE TO POINTS OF CONNECTION
2. PROVIDE WATER CLOSET WC-1 (REPLACEMENT-IN-KIND)
3. PROVIDE LAVATORY L-1 (REPLACEMENT-IN-KIND)
4. PROVIDE URINAL UR-1 (REPLACEMENT-IN-KIND)
5. PROVIDE MOP SINK MS-1 (REPLACEMENT-IN-KIND)
6. PROVIDE 3-COMPARTMENT SINK 3CS-1 (REPLACEMENT-IN-KIND); EXTEND INDIRECT DRAIN SERVICE TO ASSOCIATED FS IN VICINITY
7. PROVIDE DRINKING FOUNTAIN DF-1 (REPLACEMENT-IN-KIND)
8. PROVIDE 1-COMPARTMENT SINK 1CS-1; EXTEND INDIRECT DRAIN SERVICE TO ASSOCIATED FS IN VICINITY
9. PROVIDE HAND SINK HS-1
10. PROVIDE FLOOR SINK
11. PROVIDE PREP GREASE INTERCEPTOR GI-1
12. PROVIDE SAMPLING BOX SB-1
13. PROVIDE CONCRETE APRON
14. PROVIDE 2" V SERVICE FROM DISCHARGE OF GI TO TERMINATION ABOVE ROOF; COORDINATE ROUTING, TERMINATION, CONCEALMENT WITH GENERAL CONTRACTOR
15. DEMO WASTE, VENT SERVICES FROM POD TO POC / TO FIXTURES; DEMO ASSOCIATED VENT SERVICES TO POD AT UNDERSIDE OF ROOF; MAINTAIN WORK WITHIN CONFINES OF KITCHEN AS POSSIBLE TO MINIMIZE SLAB WORK
16. MAINTAIN (E) W, V SERVICES UNLESS OTHERWISE NOTED
17. COORDINATE REPAIR OF HARDSCAPE, LANDSCAPE WITH GENERAL CONTRACTOR
18. PROVIDE (N) W SERVICE FROM POC TO (N) SEEPAGE PIT

NORTH

RENO ENLARGE FLOOR PLAN – WASTE & VENT

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



NOTES:

1. MAINTAIN 1" CW SERVICE FROM (E) CW SERVICE ON SITE TO POINTS OF CONNECTION
2. PROVIDE WATER CLOSET WC-1 (REPLACEMENT-IN-KIND)
3. PROVIDE LAVATORY L-1 (REPLACEMENT-IN-KIND), WITH TMV INTEGRAL TO LAV FAUCET
4. PROVIDE URINAL UR-1 (REPLACEMENT-IN-KIND)
5. PROVIDE MOP SINK MS-1 (REPLACEMENT-IN-KIND)
6. PROVIDE 3-COMPARTMENT SINK 3CS-1 (REPLACEMENT-IN-KIND)
7. PROVIDE DRINKING FOUNTAIN DF-1 (REPLACEMENT-IN-KIND)
8. PROVIDE 1-COMPARTMENT SINK 1CS-1
9. PROVIDE HAND SINK HS-1
10. NOT USED
11. PROVIDE WATER HEATER WH-1 (REPLACEMENT-IN-KIND)
12. MAINTAIN CW SERVICE IN SPACE TO POC
13. PROVIDE CW SERVICE FROM POC IN VICINITY OF POINTS OF USE
14. REPAIR SLAB FOR SAW CUTS: RESTORATION OF FLOOR TO ORIGINAL CONDITION BY GENERAL CONTRACTOR
15. RESTORATION OF WALL TO ORIGINAL CONDITION BY GENERAL CONTRACTOR
16. RESTORATION OF HARD LID CEILING TO ORIGINAL CONDITION BY GENERAL CONTRACTOR

NORTH

RENO ENLARGE FLOOR PLAN – HOT & COLD WATER

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

UNDERGROUND SERVICE ALERT
Call: TOLL FREE 1-800-227-2600 OR 811
TWO WORKING DAYS BEFORE YOU DIG

SAN BERNARDINO COUNTY

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS
222 WEST HOSPITALITY LANE, 2ND FLOOR
SAN BERNARDINO, CA 92415-0450
(SITE CONTACT - FRANK HAGGARD, 760-366-8415)
(EMAIL - FHAGGARD@SDD.SBCOUNTY.GOV)

ENGINEERING-DESIGN-ANALYSIS INCORPORATED
10001 TALBERT AVENUE SUITE 300
FOUNTAIN VALLEY, CA 92708
714-813-6303 (P)
866-425-4536 (F)
EDAINCORPORATED@AOL.COM

PREPARED UNDER THE SUPERVISION OF:

KEVIN M. FRIEDMAN	M-27287	8/30/2023
PROFESSIONAL ENGINEER	R.C.E. No.	DATE

REVISIONS

MARK	DATE	INITIAL	DESCRIPTION	APPR	DATE
1	4/23/24	KN	ADDENDUM 1		

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS

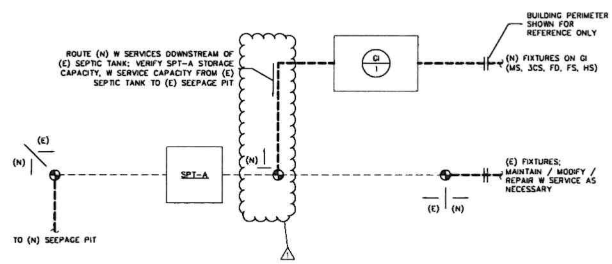
David Doublet — ASSISTANT DIRECTOR — DATE

APPROVALS	INITIAL	DATE
PROJECT MANAGER		
OPS. DIVISION MANAGER		
PM. DIVISION MANAGER		

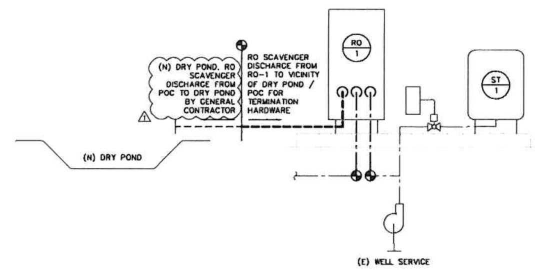
WONDER VALLEY RE-MODEL

80526 1/2 AMBOY ROAD
WONDER VALLEY, CA 92277
Alfonso.Fausto@SDD.SBCounty.gov
Phone: 909-386-8827 Cell: (909)771-1702

DWG NO. 30.30.0149
SHEET NO. P-2.1
SHEET 1 OF



SANITARY SEWER / BUILDING DRAIN / SEPTIC SCHEMATIC — NO SCALE (2)



RO SYSTEM SCHEMATIC — NO SCALE (1)

NOT USED — NO SCALE (4)

NOT USED — NO SCALE (3)

UNDERGROUND SERVICE ALERT
Call: TOLL FREE 1-800-227-2600 OR 811
TWO WORKING DAYS BEFORE YOU DIG

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS
222 WEST HOSPITALITY LANE, 2ND FLOOR
SAN BERNARDINO, CA 92415-0450
(SITE CONTACT - FRANK HAGGARD, 760-366-8415)
(EMAIL - FHAGGARD@SDD.SBCOUNTY.GOV)

ENGINEERING-DESIGN-ANALYSIS INCORPORATED
PREPARED UNDER THE SUPERVISION OF:
KEVIN M. FRIEDMAN — M-27257 — 6/26/2023
PROFESSIONAL ENGINEER — R.C.E. No. — DATE

REVISIONS					
MARK	DATE	INITIAL	DESCRIPTION	APPR	DATE
1	05/6/24		ADDENDUM 1		

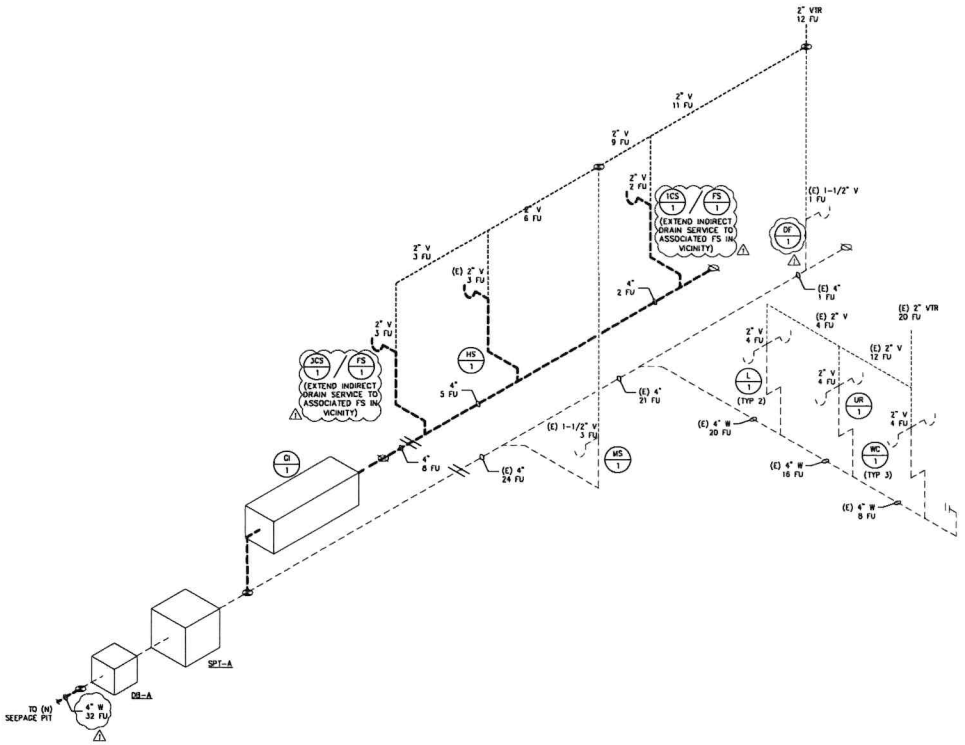
PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS SPECIAL DISTRICTS
David Doublet — Digitally signed by David Doublet Date: 2024.05.09 16:17:27 -07'00'
ASSISTANT DIRECTOR — DATE
APPROVALS: PROJECT MANAGER; OPS. DIVISION MANAGER; PM. DIVISION MANAGER — INITIAL — DATE

WONDER VALLEY RE-MODEL
80526 1/2 AMBOY ROAD
WONDER VALLEY, CA 92277
Alfonso.Fausto@SDD.SBCounty.gov
Phone: 909-386-8827 Cell: (909)771-1702

DWG NO. 30.30.0149
SHEET NO. P-2.2
SHEET 5 OF 7

NOTES:

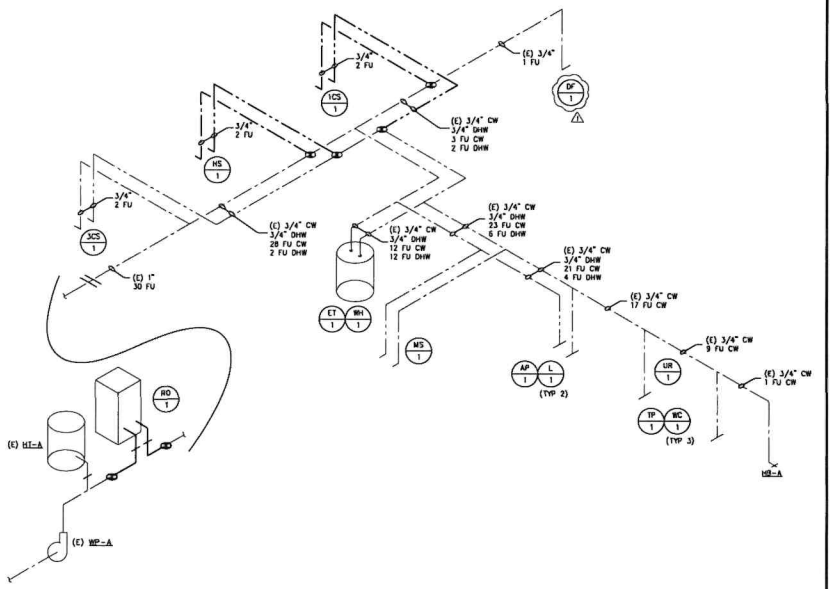
1. WASTE SERVICE SHALL BE INSTALLED WITH A MINIMUM 2% SLOPE
2. PIPING MATERIALS SHALL BE SERVICE WEIGHT HUBLESS CAST IRON PIPE AND FITTINGS WITH NEOPRENE GASKETS AND CAST IRON CLAMPS AND STAINLESS STEEL NUTS, BOLTS, AND WASHERS; ALTERNATIVE: SCHEDULE 40 ABS WITH ABS FITTINGS AND SOLVENT WELD
3. VENT SERVICE SHALL BE DEVELOPED PER REQUIREMENTS FOR COMBINATION WASTE AND VENT SERVICE



WASTE & VENT ISOMETRICS

NOTES:

1. COLD WATER, DOMESTIC HOT WATER INSIDE BUILDING: COPPER TYPE "L", WITH SILVER SOLDER UNLESS OTHERWISE NOTED (95/5 TIN/ANTIMONY SOLDER AT VALVES), WROT COPPER FITTINGS WITHIN BUILDING ABOVE GROUND
2. PROVIDE DI-ELECTRIC UNIONS AT CONNECTIONS OF DIS-SIMILAR METALS IN LOCATIONS ACCESSIBLE FOR INSPECTION; PROVIDE ACCESS PANELS AS NECESSARY



HOT & COLD WATER ISOMETRICS

UNDERGROUND SERVICE ALERT
Call: TOLL FREE
1-800-227-2600
OR
811
TWO WORKING DAYS BEFORE YOU DIG

SAN BERNARDINO COUNTY
DEPARTMENT OF PUBLIC WORKS
SPECIAL DISTRICTS
222 WEST HOSPITALITY LANE, 2ND FLOOR
SAN BERNARDINO, CA 92415-0450
(SITE CONTACT - FRANK HAGGARD, 760-366-8415)
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ENGINEERING DESIGN ANALYSIS INCORPORATED
19001 TALBERT AVENUE SUITE 300
FOUNTAIN VALLEY, CA 92708
714-418-8393 (P)
562-425-4336 (F)
EDANCORPORATED@AOL.COM
PREPARED UNDER THE SUPERVISION OF:
KEVIN M. FRIEDMAN — M-27297 — 6/30/2023
PROFESSIONAL ENGINEER — R.C.E. No. — DATE

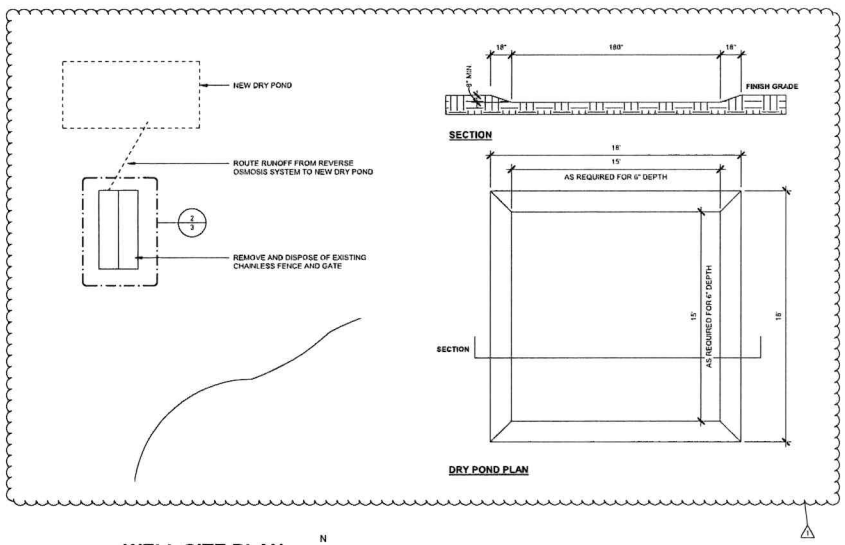
REVISIONS						
MARK	DATE	INITIAL	DESCRIPTION	APPR	DATE
1	4/23/24	KN	ADDENDUM 1		

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
Digitally signed by David Doublet
Date: 2024.05.08 16:17:27 -07'00'
ASSISTANT DIRECTOR — DATE

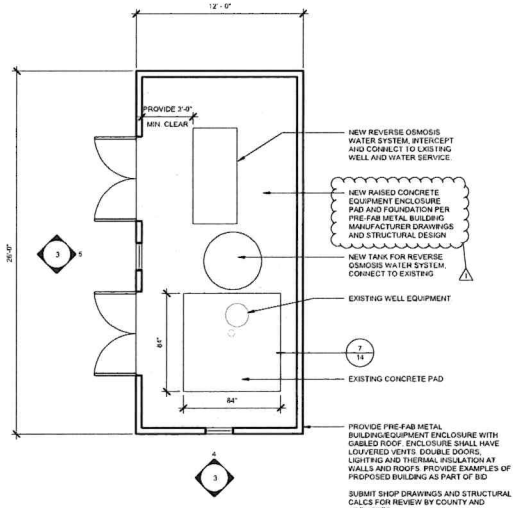
APPROVALS		INITIAL	DATE
	PROJECT MANAGER		
	OPS. DIVISION MANAGER		
	PM. DIVISION MANAGER		

WONDER VALLEY RE-MODEL
80526 1/2 AMBOY ROAD
WONDER VALLEY, CA 92277
Alfonso.Fausto@SDD.SBCounty.gov
Phone: 909-386-8827 Cell: (909)771-1702

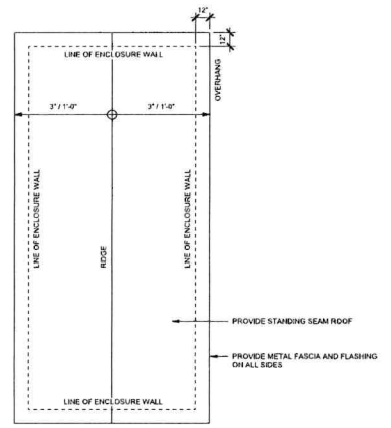
DWG NO. 30.30.0149
SHEET NO. P-3.0
SHEET : OF .



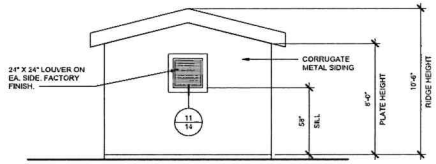
1 WELL SITE PLAN
SCALE: 1" = 20'-0"



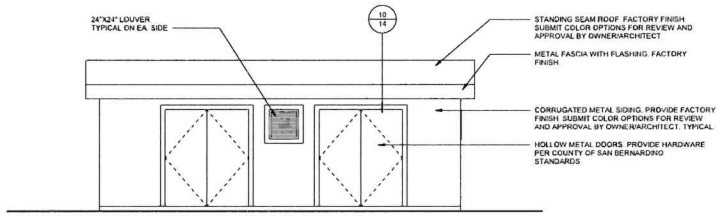
2 ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"



3 ENCLOSURE ROOF PLAN
SCALE: 1/4" = 1'-0"



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



5 ENCLOSURE - WEST
SCALE: 1/4" = 1'-0"

REVERSE OSMOSIS SYSTEM

CONTACT:

PURE AQUA, INC.
2230 SOUTH HURON DRIVE,
SANTA ANA, CA 927041
(714) 432-9996

MODEL:

DW-1.5K-140 1-PV

1-PV, 1 ELEMENT LONG-GENERAL ARRANGEMENT

BRACKISH WATER, REVERSE OSMOSIS SYSTEM

SEE SPECIFICATIONS FOR FURTHER INFORMATION

UNDERGROUND SERVICE ALERT

CALL: TOLL FREE
1-800-227-2600
OR
811

TWO WORKING DAYS BEFORE YOU DIG.

BENCHMARK:

BASIS OF BEARING:

REGISTERED ARCHITECT
Edward Lok Ng
C-16840
REN 11/30/25
STATE OF CALIFORNIA

BOA Architecture *Government Services*
1511 Cota Ave, Long Beach, CA 90813 Tel. 562-912-7500

PREPARED UNDER THE SUPERVISION OF:

EDWARD LOK NG	C-16840	05-06-2024
ARCHITECT	NO.	DATE

REVISIONS			
NO.	REVISION	DATE	BY
1	ADDENDUM 1	05/07/24	

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
Digitally signed by David Doublet
Date: 2024.05.14 15:52:55 -07'00'
05-06-2024
ASSISTANT DIRECTOR — DATE

APPROVALS		INITIAL	DATE
	PROJECT MANAGER		
	OPS. DIVISION MANAGER		
	PM, DIVISION MANAGER		

IMPROVEMENT PLANS

WONDER VALLEY COMMUNITY CENTER
SITE IMPROVEMENTS

REVERSE OSMOSIS PLAN

DWG. NO.
FILE NO.
SHEET 3 OF

DATE: 5/7/2024 4:18:24 PM

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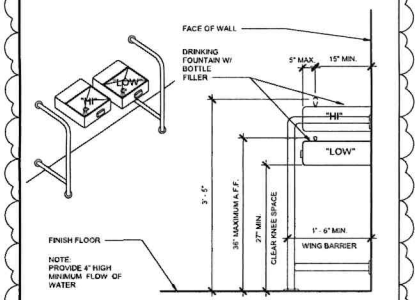
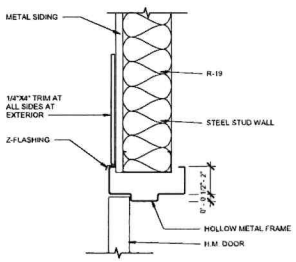
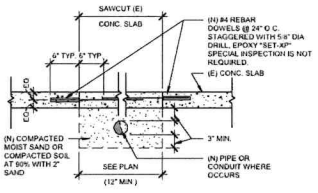


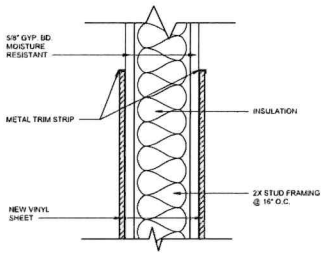
DRINKING FOUNTAIN 13



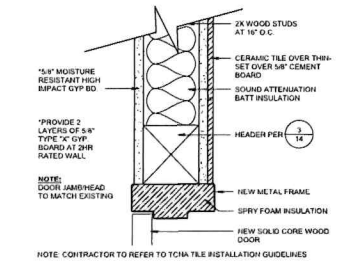
DOOR HEAD - METAL 10



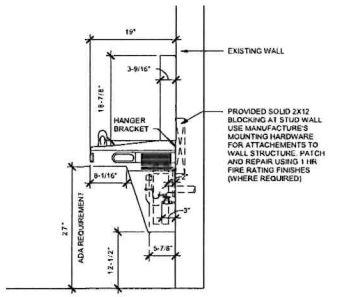
CONCRETE SAWCUT 7



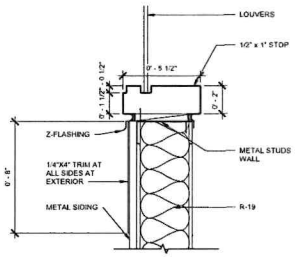
VINYL DETAIL 4



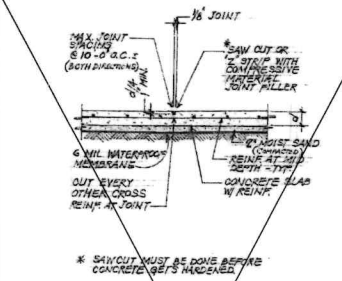
HEAD (JAMB SIM). DTL. 1



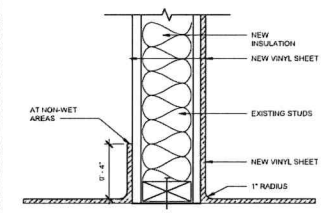
FOUNTAIN ATTACHMENT 14



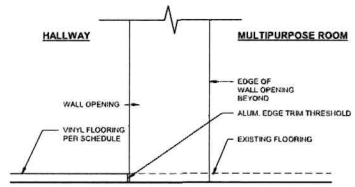
JAMB/SILL & HEAD - METAL 11



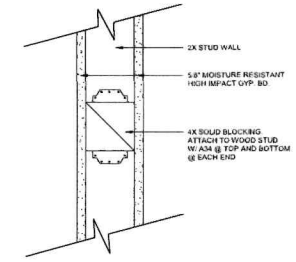
CONCRETE SLAB1 8



VINYL COVE BASE 5



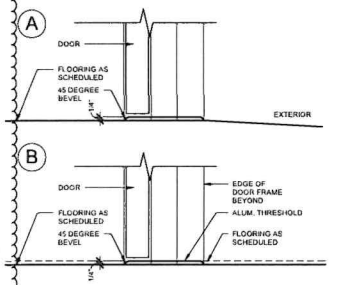
THRESHOLD DETAIL 2



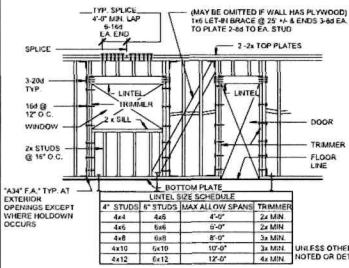
BLOCKING AT WALL 12

1. CONCRETE SHALL BE 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
2. CONCRETE: 1 PART CEMENT, 2 1/2 PARTS SAND, AND 3 1/2 PARTS 3/4" DIA. ROCK TOTAL WATER SHALL NOT EXCEED 7 GALLONS PER SACK OF CEMENT.
3. GROUT: 1 PART CEMENT, 3 PARTS SAND, 2 PARTS 3-8" DIA. MAXIMUM PEA GRAVEL OR APPROVED EQUAL.
4. CEMENT SHALL BE TYPE V PORTLAND "S" PER ASTM C-150.

CONCRETE NOTES 9



THRESHOLD DETAIL - DOOR 6



LINTEL SIZE SCHEDULE

4" STUDS	6" STUDS	MAX ALLOW SPANS	TRIMMER
4x4	4x6	4'-0"	2x MIN.
4x6	6x6	6'-0"	2x MIN.
4x8	6x8	8'-0"	3x MIN.
4x10	6x10	10'-0"	3x MIN.
4x12	6x12	12'-0"	4x MIN.

UNLESS OTHERWISE NOTED OR DETAILED

FRAMING DETAIL 3

UNDERGROUND SERVICE ALERT
CALL: TOLL FREE 1-800-227-2600 OR 811
TWO WORKING DAYS BEFORE YOU DIG.

BENCHMARK:

BASIS OF BEARING:

Edward Lok Ng
C-16840
REN 11/30/25
REGISTERED ARCHITECT
STATE OF CALIFORNIA

BOA Architecture
Government Services
1511 Cota Ave, Long Beach, CA 90813 Tel. 562-912-7000

PREPARED UNDER THE SUPERVISION OF:
EDWARD LOK NG C-16840 05-08-2024
ARCHITECT NO. DATE

REVISIONS

NO.	REVISION	DATE	BY
1	BID SET	05/08/24	
2	ADDENDUM 1	06/03/24	

PLANS APPROVED BY:
SAN BERNARDINO COUNTY - PUBLIC WORKS
SPECIAL DISTRICTS
David Doublet
Digitally signed by David Doublet
Date: 2024.08.06 15:53:58 -07'00'
05-08-2024
ASSISTANT DIRECTOR DATE

APPROVALS	INITIAL	DATE
PROJECT MANAGER		
OPS. DIVISION MANAGER		
PM. DIVISION MANAGER		

IMPROVEMENT PLANS

WONDER VALLEY COMMUNITY CENTER
SITE IMPROVEMENTS
DETAILS

DWG. NO.
FILE NO.
SHEET 14 OF

DATE: 5/6/2024 3:33:12 PM

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