RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

REQUEST FOR BID # FCARC-00181

ASBESTOS ABATEMENT AND INTERIOR DEMOLITION NPDES LAB



ADDENDUM NO. 01 SEPTEMBER 20, 2023

By:
Marilyn Weisenberg
Administrative Services Supervisor- Purchasing
Riverside County Flood Control
and Water Conservation District
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Riverside, CA 92501
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UNSPSC CATEGORY Code(s): 76101602, 76101600, 76100000

ADDENDUM NO. 01 TO RFB #FCARC-00181

1.0 This Addendum is considered to be part of the Request for Bids (RFB). All other terms of the RFB remain unchanged and in effect. This Addendum is intended to provide additional information and/or to change requirements in the above-referenced RFB. Any information contained herein will be considered part of the RFB and as such will be used in the evaluation of the bid responses. Attention all potential bidders, if you have already submitted your quote prior to the bid closing date, please review this Addendum and re-submit your bid response should this Addendum modify your initial bid response.

2.0 BIDS SHALL BE DELIVERED TO:

Riverside County Flood Control and Water Conservation District 1995 Market Street Riverside, CA 92501 Attention: Marilyn Weisenberg – Purchasing

<u>BID SUBMITTAL</u> - All bids must be submitted with the provided Bid Form (<u>pages 6 through 12</u>). The bid shall be delivered (no email delivery) to the District at the address stated below on or before 1:30 p.m. on the closing date. The RFB number, title, and closing date and time shall appear on both the envelope and the bid cover sheet. <u>Under no circumstances will a bid be accepted after the closing date</u> and time.

3.0 <u>License Required Clarification</u>: The following License is required for the project, C-22, C-21, or B General Contractor who also carries a C-22 or will subcontract a C-22 Contractor. (The B License covers the C-21 for the type of demolition required on this project.)

4.0 Questions and Responses

4.1 Is the wall being demolished between the lab and storage closet?

District Response: The storage closet will remain a closet with a door.

4.2 Does everything in the lab/room need to be removed?

District Response: Yes, everything in the lab should be removed during the demolition stage. Please not, the District will have cleared out the storage closet prior to the contractor starting work.

4.3 Does the shelving in the lab/room need to be removed?

District Response: Same response as 4.2.

4.4 Where can the trash container for the bagged material/construction trash be placed?

District Response: It can be placed immediately outside the entry door the crew will be using.

4.5 What is the Budget?

District Response: The District had not specifically budgeted for asbestos abatement, with that being said, the Finance Division has allocated \$125,000 to this specific work in Building 4 from the building maintenance fund.

4.6 Are there any plans or drawings for Building 4?

District Response: Yes, there are plans and they are being provided as a separate attachment to RFB - 000181.

- 5.0 Please see the separate documents containing the Drawings for Building 4.
 - 1. Electrical
 - 2. Architect
 - 3. Landscape
 - 4. Mechanical
 - 5. Notes and details
 - 6. Plumbing
 - 7. Sheet 1
- **6.0** Revised Survey from Magnolia Environmental that includes testing of the bathroom area, will be provided as a separate attachment. There are no findings for the bathroom area, so there is no abatement required. At this time the District has decided to run a separate RFB for the remodel of the bathroom area.

Project:

Limited Asbestos and Lead Survey Report

1995 Market St. Riverside, CA 92501

Project Number: 5536

Local Office:

Magnolia Environmental 17226 ½ Jersey Ave. Artesia, CA 90701 Office: 562-922-3144

Client:

Riverside County Flood Control

Date Report Issued:

May 8, 2023

Date Report Revised:

September 15, 2023

Date of Survey: May 4, 2023

Project Number: 5536

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INTRODUCTION

The client referenced above retained Magnolia Environmental to perform an environmental evaluation that included: asbestos-containing material (ACM) and lead-based paint (LBP), at the property referenced above prior to renovation. The evaluation included the sampling of suspect asbestos containing materials, potential lead-based paint, and a visual assessment in areas that will be impacted during the renovation project at the subject property. Tyler Gimarse Certified Site Surveillance Technician (CSST) No. 21-6706 and California Department of Public Health (CDPH) Lead Sampling Technician No. LRC-00004184 performed the on-site hazard evaluation under the supervision of Industrial hygienist, Andrea Pulsipher Cal-OSHA Certified Asbestos Consultant (CAC) No. 17-5929, and California Department of Public Health Certified Lead Inspector/Assessor No. LRC-00003897, on May 4, 2023. On September 12, 2023 Magnolia Environmental, LLC dispatched Tyler Gimarse, Cal-OSHA CSST No. 21-6706 back to the project site to collect additional bulk samples of suspect ACM.

Magnolia Environmental report is for the exclusive use of our client referenced above and applies only to the structures referenced above or portion thereof. No one other than our client or those contracted by our client may utilize, reference, or otherwise rely on this report without prior written consent from Magnolia Environmental.

DESCRIPTION OF FACILITY/WORK AREA

Work area is located at the WPD laboratory/storage room county building for the Riverside County Flood Control and Water Conservation District. No obvious fire or structural damage was observed at the time of inspection. On September 12, 2023 Magnolia Environmental, LLC was contacted to inspect the bathroom and shower area of the county building for the Riverside County Flood Control and Water Conservation District. No structural damage or obvious fire was observed during the time of the second inspection conducted on September 12, 2023.

PURPOSE AND SCOPE

The purpose of this investigation is to perform a hazardous materials environmental evaluation in order to aid our client referenced above prior to renovation at the subject property.

Magnolia Environmental's scope of work included:

- A visual reconnaissance of the impacted areas on the property to evaluate the possible presence of ACM and LBP
- Collection of bulk samples of suspect ACM, submittal to a NVLAP accredited laboratory for analysis.
- Collection of paint was sampled for potential LBP by XRF analysis.
- Assessment of the condition of potential ACM and LBP.
- Preparation of this report, which presents our data and summarizes the assessed materials.

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METHODS

A. ASBESTOS

Suspect asbestos materials are sampled and later identified using the Polarized Light Microscopy (PLM) method in accordance with the EPA Interim method of the Determination of Asbestos in Bulk Samples (EPA/600/ R-93/116, July 1993). Sampling was performed in accordance with 40 CFR 763.86. Homogeneous areas were based on the total functional space. Number of samples per homogeneous area was taken as recommended under said section "Sampling Procedures". The PLM Method is the most commonly used method to analyze building materials for the presence of asbestos. This method utilizes the optical properties of minerals to identify the selected constituent. The use of this method enables identification of the type and the percentage of asbestos in each sample. The detection limit of the PLM method for asbestos identification is about one (1) percent asbestos. Because the State of California recognizes asbestos-containing building material (ACBM) as any material, which contains greater than or equal to one tenth of one percent (.1) asbestos, materials containing "trace" amounts of asbestos are reported as ACBM in the State of California. CSC recommends Transmission Electron Microscopy (TEM) analysis for asbestos samples with one percent (1%) or less asbestos content and Point Count Method with results ranging between two percent (2%) and ten percent (10%) when analyzed via PLM.

Documentation of the laboratory results should be retained as a reference for general building safety and maintenance, and for any future renovation/ demolition activities.

INSPECTION PROCEDURE (763.85)

<u>Areas Inspected</u>: The inspector performed a preliminary walk-through to designate the functional spaces. She also noted which areas had homogeneous materials.

The inspector then visually inspected each accessible room that will be impacted during the renovation. The inspector touched suspect materials to determine if they were friable. For each suspect material, the inspector noted its condition and the potential for disturbance.

Quantities: Suspect asbestos-containing materials identified at the site were quantified. For general functional space measurements were used. Such measurements provide "approximate square or linear footage" (763.93 (d)(2)(ii)). Suspect Asbestos-Containing Materials: were sampled for laboratory analysis or were visually identified as ACM. Magnolia Environmental collected a total of nine (9) bulk samples of suspect ACM material. The samples were transferred following proper chain of custody protocol to Ecologics Laboratories, located at 2487 Orangethorpe Ave. Fullerton, CA 92831, for analysis and can be reached at (714) 632-8118. Ecologics Laboratories is an accredited laboratory for bulk asbestos analysis under the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (CertificationNumber 600190-0). On September 12, 2023 Magnolia Environmental, LLC collected 9 additional bulk samples of suspect ACM. The samples were transferred following proper chain of custody protocol to Ecologics laboratories for analysis.

A total of 9 bulk samples were collected. Below is a list of samples collected:

- GB-1 Ceiling gypsum board
- GB-2 Ceiling gypsum board
- GB-3 Ceiling gypsum board
- JC-1 Ceiling joint compound
- JC-2 Ceiling joint compound
- JC-3 Ceiling joint compound
- F-1 12x12 Beige floor tile and associated black/tan mastic
- F-2 12x12 Beige floor tile and associated black/tan mastic
- F-3 12x12 Beige floor tile and associated black/tan mastic



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A total of 9 bulk samples were collected on September 12, 2023. Below is a list of samples collected:

- GB-1 Gypsum board
- GB-2 Gypsum board
- GB-3 Gypsum board
- JC-1 Joint compound
- JC-2 Joint compound
- JC-3 Joint compound
- C-1 Concrete
- C-2 Concrete
- C-3 Concrete

B. LEAD-BASEDPAINT

Our inspector analyzed three (3) paint samples from representative surfaces of the areas that will be impacted during the renovation. The samples were analyzed via XRF analysis; results are attached in appropriate appendixes. On September 12, 2023, six (6) additional paint samples from representative surfaces of the bathroom and showers were analyzed via XRF analysis.

RESULTS

A. ASBESTOS

Nine (9) bulk samples were taken using polarized light microscopy (PLM). The following table summarizes the results of the sample analysis and of the visual assessment. A complete list of sample results can be found in the laboratory sheets at the end of this report.

TABLE I: ACM RESULTS

| Sample # | Sample ID | Material Description | Sample Location | F/NF ¹ | Cond. ² | ACM | Est. Quantity |
|--------------------|--------------|---|--|-------------------|--------------------|---------|------------------|
| 01 | GB-1 | Ceiling Gypsum Board | Ceiling gypsum board sampled from the WPD Laboratory | NF | G | NAD | 240 SF |
| 02 | GB-2 | Ceiling Gypsum Board | Ceiling gypsum board sampled from the WPD Laboratory | | G | NAD | 240 SF |
| 03 | GB-3 | Ceiling Gypsum Board | Ceiling gypsum board sampled from the WPD Laboratory | NF | G | NAD | 240 SF |
| 04 | JC-1 | Ceiling Joint Compound | Ceiling joint compound sampled from the WPD Laboratory | | G | Assumed | 240 SF |
| 05 | JC-2 | Ceiling Joint Compound | Ceiling joint compound sampled from the WPD Laboratory | NF | G | Assumed | 240 SF |
| 06 | JC-3 | Ceiling Joint Compound | Ceiling joint compound sampled from the WPD Laboratory | NF | G | Assumed | 240 SF |
| 07 | F-1 | 12x12 Beige Floor Tile | 12x12 Beige floor tile sampled from the WPD Laboratory | | G | NAD | 240 SF |
| 07 Layer Two | F-1 | Black/Tan Mastic Associated with 12x12 Beige Floor Tile | Black/Tan Mastic associated with 12x12 beige floor tile | NF | G | 2% | 240 SF |

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| Sample # | Sample ID | Material Description | Sample Location | F/NF ¹ | Cond. ² | ACM | Est. Quantity |
|--------------------|--------------|---|--|-------------------|--------------------|-----|------------------|
| 08 | F-2 | 12x12 Beige Floor Tile | 12x12 Beige floor tile sampled from the WPD Laboratory | NF | G | NAD | 240 SF |
| 08 Layer Two | F-1 | Black/Tan Mastic Associated with 12x12 Beige Floor Tile | Black/Tan Mastic associated with 12x12 beige floor tile | NF | G | 2% | 240 SF |
| 09 | F-3 | 12x12 Beige Floor Tile | 12x12 Beige floor tile sampled from the WPD Laboratory | NF | G | NAD | 240 SF |
| 09 Layer Two | F-2 | Black/Tan Mastic Associated with 12x12 Beige Floor Tile | Black/Tan Mastic associated with 12x12 beige floor tile | NF | G | 2% | 240 SF |
| 10 | GB-1 | Gypsum Board | Bathroom | NF | G | NAD | 314 SF |
| 11 | GB-2 | Gypsum Board | Bathroom | | G | NAD | 314 SF |
| 12 | GB-3 | Gypsum Board | Showers | NF | G | NAD | 314 SF |
| 13 | JC-1 | Joint Compound | Bathroom | NF | G | NAD | 314 SF |
| 14 | JC-2 | Joint Compound | Bathroom | NF | G | NAD | 314 SF |
| 15 | JC-3 | Joint Compound | Showers | NF | G | NAD | 314 SF |
| 16 | C-1 | Concrete | Bathroom | NF | G | NAD | 314 SF |
| 17 | C-2 | Concrete | Bathroom | NF | G | NAD | 314 SF |
| 18 | C-3 | Concrete | Bathroom | NF | G | NAD | 314 SF |

¹-F=Friable; NF= Non-Friable

²-Cond = condition of Materials. Either good (G), damaged (D), or significantly damaged (SD)

³-NAD=No asbestos detected

^{*}See the laboratory report and chain custodies for the complete list materials tested and the sampling locations.

^{**}Listed square footage is an estimate and should not be used for bidding purposes. Contractor should confirm quantities.

^{***}Should the demolition/renovation process reveal any additional suspect asbestos-containing materials; work must stop until the suspect materials are tested for asbestos content.

^{****}Sample numbers 10-18 were collected on September 12, 2023 by Tyler Gimarse, Cal-OSHA CSST No. 21-6706.

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B. LEAD-BASEDPAINT

TABLE II: LBP RESULTS

| | Lead Paint XRF Results | | | | | | | | | | |
|----------|---------------------------|-------------|--------------|-------------------|-----------------------------|-------------|--|-----------------------------|--|--|--|
| Read No. | Site Location | Component | Substrate | Side ¹ | Paint Cond. ² | Color | Lead Content (mg/cm ²) | Classification ³ | | | |
| 1 | Calibration | | | | | | 1.0 | | | | |
| 2 | Calibration | | | | | | 1.0 | | | | |
| 3 | Calibration | | | | | | 1.0 | | | | |
| 4 | WPD Laboratory | Ceiling | Gypsum Board | A | I | Light Brown | 0.1 | LCP | | | |
| 5 | WPD Laboratory | Wall | Concrete | A | I | Grey | 0.3 | LCP | | | |
| 6 | WPD Laboratory | Wall | Gypsum Board | A | I | Grey | 0.0 | BDL | | | |
| 7 | Showers | Floor Tile | Ceramic | С | I | Grey | 0.0 | BDL | | | |
| 8 | Showers | Shower Tile | Ceramic | С | I | White | 0.0 | BDL | | | |
| 9 | Bathroom | Base Tile | Ceramic | С | I | White | 0.0 | BDL | | | |
| 10 | Bathroom | Wall | Gypsum Board | С | I | White | 0.0 | BDL | | | |
| 11 | Bathroom | Urinal | Ceramic | С | I | White | 0.0 | BDL | | | |
| 12 | Bathroom | Toilet | Ceramic | С | I | White | 0.0 | BDL | | | |

Legend:

mg/cm²= milligrams per centimeter squared

¹ Side: A=Street side, B = To the left of side A, C = Across side A, D = To the right of side A

BDL = Below the XRF's detection level; less than 0.1 mg/cm².

LCP = Lead Containing Paints; any detectable concentration

LBP = Lead-Based Paints; equal to or exceeding 1.0 mg/cm² or 0.5 mg/cm² for City of San Diego or 0.7 mg/cm² for Los Angeles County.

*Paint conditions are based on visual observations in survey areas. Different conditions may be present in other areas of the Subject Property. Limit of Detection (LOD) is 0.1 mg/cm²

Sample numbers 7-10 were analyzed via XRF on September 12, 2023.

² Paint Condition: I = Intact, D = Deteriorated

³Classification:

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CONCLUSION / RECOMMENDATIONS

A. ASBESTOS

According to bulk sampling and visual inspection of impacted areas, the following materials is ACM subject to Rule 1403:

- Ceiling joint compound*
- Black/Tan mastic associated with 12x12 beige floor tile

*The ceiling joint compound sampled was found to contain <1% asbestos and can be point counted. Due to the ceiling joint compound containing asbestos, I, Andrea Pulsipher CAC No. 17-5929, assume the ceiling joint compound is ACM subject to Rule 1403.

Abatement by a licensed abatement contractor is required prior to disturbance of asbestos containing materials.

It is always necessary to comply with the pertinent provisions of EPA, OSHA and AQMD regulations during any removal or repair activities that may disturb the asbestos- containing materials that may have been inaccessible and or untested during the survey. Caution should be taken when inaccessible and untested areas are disturbed.

The Environmental protection Agency (EPA) and California OSHA (Cal/OSHA) define materials which contain more than one percent asbestos to be asbestos containing materials (ACM). In addition, Cal/OSHA defines any manufactured construction material more than 0.1% asbestos as asbestos- containing construction materials (ACCMs). Cal/OSHA also requires notification and registration of the contractor when disturbing materials with more than one-tenth of one percent asbestos and regulates worker protection whenever materials containing any detectable levels of asbestos are disturbed.

B. LEAD

Based on the field assessment and XRF analysis, <u>Lead-Based paint was not detected on the</u> materials sampled.

If, during future work, materials or surface coatings suspected to contain asbestos or lead are encountered that were not specifically addressed during this survey (e.g., under/behind existing materials or in areas that were not included in the scope of this survey), the newly discovered suspect materials/surface coatings should be appropriately evaluated for asbestos and/or lead content prior to initiating any work or activities involving their disturbance. It is always necessary to comply with the pertinent provisions of EPA, OSHA regulations during any removal or repair activities that may disturb the lead-containing materials that may have been inaccessible and untested areas during this survey. Caution should be taken when inaccessible and untested areas are disturbed.

Property Address: 1995 Market St. Riverside, CA 92501

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Date of Survey: May 4, 2023 Project Number: 5536

LIMITATIONS

Magnolia Environmental prepared this asbestos and lead survey for the client referenced above. No warranties expressed or implied, are made by Magnolia Environmental or its employees as to the use of any information, apparatus, product, or process disclosed in this report. Though reasonable efforts have been made to assure correctness, if a Contractor is employed, he should bring any discrepancies to the immediate attention of Magnolia Environmental.

We have employed state-of-the-art practices to perform this analysis of risk and identification, but this evaluation is severely limited in scope to areas accessible to a visual inspection or through reasonable means of the areas evaluated. No demolition or product review was performed in attempts to reveal material compositions. Our services consist of professional opinions and recommendations made in accordance with generally accepted engineering principles and practices and are designed to provide an analytical tool to assist the client. Magnolia Environmental or those representing Magnolia Environmental bear no responsibility for the actual condition of the structure or safety of a site pertaining to asbestos and/or asbestos contamination regardless of the actions taken by the client.

Magnolia Environmental appreciated having the opportunity to inspect your property. If you have any questions regarding this survey or other environmental hazards, please don't hesitate to contact us at (562) 922-3144 or at Office@Magnoliaenvironmental.com.

Andrea Pulsipher Project Consultant CAC No. 17-5929

CDPH Lead Inspector/Assessor LRC-00003897

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APPENDIX A

ASBESTOS LABORATORY ANALYTICAL RESULTS AND CHAIN OFCUSTODY



2487 E. Orangethorpe Ave. Fullerton, CA 92831 (714) 632-8118 www.ecologicslab.com

PLM Bulk Asbestos Report

Client: Magnolia Environmental LAB Job #: 230506011

Address: 17226 1/2 Jersey Ave. Artesia, CA 90701 # of Samples: 9

Project #: 5536 Collected By: Tyler Gimarse
Project Name: N/A Date Received: 05/04/2023
Project Location: 1995 Market St. Riverside, CA 92501 Date Analyzed: 05/06/2023

| Client ID | Layer # | Lab ID | Asbestos (Y or N) | % Asbestos / Type |
|-----------------------------|--|--------------|----------------------|----------------------|
| GB-1 | 230506011.01.A | 230506011.01 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Gypsum Board, Firm, Homogeneous, White | | No | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 5% Cellulose, 2% Fiberglass, 93% Non-Fibrous Materia | l | | |
| GB-2 | 230506011.02.A | 230506011.02 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Gypsum Board, Firm, Homogeneous, White | No | NAD | |
| Asbestos Type | : NONE | No | NAD | |
| Other Material Type | : 5% Cellulose, 2% Fiberglass, 93% Non-Fibrous Materia | I | | |
| GB-3 | 230506011.03.A | 230506011.03 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Gypsum Board, Firm, Homogeneous, White | | N1- | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 5% Cellulose, 2% Fiberglass, 93% Non-Fibrous Materia | I | | |
| JC-1 | 230506011.04.A | 230506011.04 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Joint Compound, Firm, Homogeneous, Beige | | Vos | 410/ Chrusatila |
| Asbestos Type | : Chrysotile | | Yes | <1% Chrysotile |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| JC-2 | 230506011.05.A | 230506011.05 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Joint Compound, Firm, Homogeneous, Beige | | W | 440/ Clause a tilla |
| Asbestos Type | : Chrysotile | | Yes | <1% Chrysotile |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| JC-3 | 230506011.06.A | 230506011.06 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Joint Compound, Firm, Homogeneous, Beige | | ., | 40/01 |
| Asbestos Type | : Chrysotile | Yes | <1% Chrysotile | |
| Other Material Type | : 100% Non-Fibrous Material | | | |



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PLM Bulk Asbestos Report

Client: Magnolia Environmental LAB Job #: 230506011

Address: 17226 1/2 Jersey Ave. Artesia, CA 90701 # of Samples: 9

Project #: 5536 Collected By: Tyler Gimarse
Project Name: N/A Date Received: 05/04/2023
Project Location: 1995 Market St. Riverside, CA 92501 Date Analyzed: 05/06/2023

| Client ID | Layer # | Lab ID | Asbestos (Y or N) | % Asbestos / Type |
|-----------------------------|---|--------------|----------------------|----------------------|
| F-1 | 230506011.07.A | 230506011.07 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Floor Tile, Firm, Homogeneous, Beige | | NI- | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| F-1 | 230506011.07.B | 230506011.07 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Mastic, Firm, Non-Homogeneous, Black, Tan | | V | 20/ 6/ |
| Asbestos Type | : Chrysotile | | Yes | 2% Chrysotile |
| Other Material Type | : 98% Non-Fibrous Material | | | |
| F-2 | 230506011.08.A | 230506011.08 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Floor Tile, Firm, Homogeneous, Beige | | NI - | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| F-2 | 230506011.08.B | 230506011.08 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Mastic, Firm, Non-Homogeneous, Black, Tan | | Vos | 20/ Chrusatila |
| Asbestos Type | : Chrysotile | | Yes | 2% Chrysotile |
| Other Material Type | : 98% Non-Fibrous Material | | | |
| F-3 | 230506011.09.A | 230506011.09 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Floor Tile, Firm, Homogeneous, Beige | | NI- | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| F-3 | 230506011.09.B | 230506011.09 | | |
| Location | : WDP Laboratory | | | |
| Analyst Description / Color | : Mastic, Firm, Non-Homogeneous, Black, Tan | | Vos | 20/ Chm/catil- |
| Asbestos Type | : Chrysotile | | Yes | 2% Chrysotile |
| Other Material Type | : 98% Non-Fibrous Material | | | |



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PLM Bulk Asbestos Report

Client: Magnolia Environmental

Address: 17226 1/2 Jersey Ave. Artesia, CA 90701

Project #: 5536 Project Name: N/A

Project Location: 1995 Market St. Riverside, CA 92501

LAB Job #: 230506011

of Samples: 9

Collected By: Tyler Gimarse Date Received: 05/04/2023 Date Analyzed: 05/06/2023

Thu Nguyen - Analyst

Jhair Gonzalez - Approved by

NAD = no asbestos detected; NA = not analyzed, PS = positive stop; Reporting Limits: CVES = 1%, 400 PT CT = 0.25%, 1,000 PT CT = 0.1%. The analyses of the samples in this report were performed and analyzed in accordance with the procedures outlined in EPA 600/R-93/116 (Method for Determination of Asbestos in Building Materials); EPA 600/M4-82-020 (Interim Method for the Determination of Asbestos in Bulk Insulation Samples) and US Federal Register 40 CFR Appendix E to Subpart E of Part 763 (Interim Method of the Determination of Asbestos in Bulk Insulation Samples). Samples were analyzed using Calibrated Visual Estimate (CVES), therefore results may not be reliable for samples with low concentration levels or other Non-Friable Organically Bound (NOB) materials. The limit of detection for this analytical method is less than one percent (<1%) and total sample constituents may total greater than 100% due to trace amounts. These results lie within the statistical limits of variability calculated with standard reference materials routinely analyzed in the laboratory. In multi-layer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. This report only relates to the samples that were submitted and Ecologics Lab and its personnel assumes no responsibility and/or are not liable for any misinformation provided by the client such as "sample location" or "sample type." This report may contain specific data not covered by NVLAP and is identified if footnotes are present. This report was issued by Ecologics Lab which is accredited by NVLAP (Lab Code 600190-0) and may not be reproduced except in full, without written approval of this laboratory. This report may not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. NVLAP Lab Code: 600190-0

230506011



CHAIN OF CUSTODY



2487 E. Orangethorpe Ave. Fullerton, CA 92831 (714) 632-8118 reports@ecologicslab.com

| | CONTACT INFORMAT | ION * | | | PR | OJECT | NFORM | ATIO | N * | | |
|----------------|--|-----------------------|---|----------|----------|----------------------------|------------------------------|--|---|--------|---|
| Company: | Magnolia Environmental, I | LC | Project #: \$536 | | | | | | | | |
| Address: 1 | 7226 1/2 Jersey Ave. Artesia, CA | 90701 | Project | name: | | | | | | | |
| Phone: 56 | 2-922-3144 | | Project | locatio | n: j | 995 y | MARKET. | 54. | | | |
| | ndrea Pulsipher | | | | Pi | Varsive, | (A 92 | 501 | = _ | | |
| Email resu | lts to: maglabresults@gma | ail.com | Date sa | mpled: | 5/ | 4/23 | | | SIDU SIMBILITA DI SIFRADALINA | | 432 VA |
| | | | Sample | d by: | Tyl | er WN | | - | | | *************************************** |
| | ASBESTOS | | | | | MICE | ROBIOLÒ | GY | | | |
| D PLM B | ulk Analysis (EPA 600/R-93 | /116) | ☐ Fun | gi: Non | Viable | Mold (S | ST) | | | | |
| PLM 1 | .000 Point Count (<0.1%) | Non-Gravimetric | ☐ Fun | gi: Non | Viable | Mold (| TL, B, SW |) | | | |
| ☐ PLM 4 | 00 Point Count (<0.25%) | Fun | gi: Qua | ntitativ | e Spore | Count D | irect l | Exam (T | L, B, SW | J) | |
| ☐ PLM C | ualitative (Dust Wipe or So | | | | | E. coli (P) | | | | | |
| ☐ PCM A | irborne Fiber Count (NIOS | ☐ Bact | teria: T | otal Co | liform, | E. coli , Er | nteroc | coccus (| P/A) | | |
| - | irborne Fiber Count with T | WA | ☐ Mat | erial So | cience / | Analysis | (Soot, Cl | nar, As | sh, etc.) | | |
| Other: | | | | | | | <i>y</i> | | | | - |
| - | d time (TAT) *: 3 Hrs | ☐6 Hrs ☐ 8 Hrs | s 24 | Hrs | 48 H | rs 🗵 | 72 Hrs | 01 | ther: | | |
| | information/ Special instru | | | | | c & | | | | | |
| | t 1st positive on samples g | | | | | | | | | | |
| | osite 1 wall system sample | if found to be greate | er than o | r equa | to 1%. | | | | | | |
| Other | | | | T | | | | | | | |
| SAMPLE ID | LOCATION * | DESCRIPTION | N * | ASBESTOS | | THE PERSON NAMED IN COLUMN | MICROBIOLOGY/PCM F TIME FLOW | | | | / |
| Ortivity EL 10 | LOCATION | DESCRIPTION | | COND | SF/LF | FRIABLE Y/N | START | STOP | START | STOP | TOTAL |
| 1 68-1 | WPD Laboratory | cors Gapsum po | md | 6 | 246 | N | | # # pu# * # (*** | | | |
| 2 692 | | | | | | | | | | | |
| 3 633 | | <u> </u> | | 10 | 1 | V | | | | | |
| 4 36-1 | | cuty John Com | for 57 | 5 | 240 | Ν | | A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | | |
| 5 31.2 | | | 05 00 00 0000000000000000000000000000000 | | | | | | | | |
| 6 51-3 | | | | V | V | V | | MICHAEL BARRETTAL TERROLITES A | | | |
| 7 F1 | The state of the s | 12×12 Begg Floor | or | 6 | 240 | N | | namen et av de | THE THE PERSON OF PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE | | |
| 8 E-5 | Total Control of the | | | | | | | ************************************** | | | |
| 9 F-3 | | | | 1 | 1 | V | | | - The base | | |
| L | Fog Rain Snow Win | d Clear TIME * | DATE * | <u> </u> | LINOL | USHED ! | V* | | RECEI | VED BY | l |

| | Fog | Rain | Snow | Wind | Clear | TIME * | DATE * | RELINQUISHED BY * | RECEIVED BY |
|---------|-----|------|------|------|-------|--------|--------|-------------------|------------------|
| Weather | | | | | | 2:024 | 5/4/25 | WW Commen | MAY 4'23,PM 2:02 |
| | | | | | | 2:02/2 | 5/4/33 | Roberto Vicens | - Mr |

ST: Spore Trap, TL: Tape Lift, B: Bulk, Sw: Swab, P/A: Presence/ Absence, QTY: Quantity, SF: Square Foot, LF: Linear Foot,

COND: Conditions: G = Good; D = Damaged; SD = Significantly Damaged.

Page 1 of ___

^{*} Necessary information for processing.



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PLM Bulk Asbestos Report

Client: Magnolia Environmental

LAB Job #: 230912017

Address: 17226 1/2 Jersey Ave. Artesia, CA 90701 # of Samples: 9

Project #: 6002 Collected By: Tyler Gimarse
Project Name: N/A Date Received: 09/12/2023
Project Location: 1995 Market st. Riverside, CA 92501 Date Analyzed: 09/13/2023

| Client ID | Layer # | Lab ID | Asbestos (Y or N) | % Asbestos / Type |
|-----------------------------|--|--------------|----------------------|----------------------|
| GB-1 | 230912017.01.A | 230912017.01 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Gypsum Board, Firm, Non-Homogeneous, Brown, Whi | ite | NI- | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 2% Cellulose, 2% Fiberglass, 96% Non-Fibrous Materia | ıl | | |
| GB-2 | 230912017.02.A | 230912017.02 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Gypsum Board, Firm, Non-Homogeneous, Brown, Whi | ite | NI - | NAG |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 2% Cellulose, 2% Fiberglass, 96% Non-Fibrous Materia | ıl | | |
| GB-3 | 230912017.03.A | 230912017.03 | | |
| Location | : Shower | | | |
| Analyst Description / Color | : Gypsum Board, Firm, Non-Homogeneous, Brown, Whi | ite | | |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 2% Cellulose, 2% Fiberglass, 96% Non-Fibrous Materia | ıl | | |
| JC-1 | 230912017.04.A | 230912017.04 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Joint Compound, Firm, Homogeneous, White | | No | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| JC-2 | 230912017.05.A | 230912017.05 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Joint Compound, Firm, Homogeneous, White | | No | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| JC-3 | 230912017.06.A | 230912017.06 | | |
| Location | : Shower | | | |
| Analyst Description / Color | : Joint Compound, Firm, Homogeneous, White | | NI- | NAD |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |



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PLM Bulk Asbestos Report

Client: Magnolia Environmental LAB Job #: 230912017

Address: 17226 1/2 Jersey Ave. Artesia, CA 90701 # of Samples: 9

Project #: 6002 Collected By: Tyler Gimarse
Project Name: N/A Date Received: 09/12/2023
Project Location: 1995 Market st. Riverside, CA 92501 Date Analyzed: 09/13/2023

| Client ID | Layer # | Lab ID | Asbestos (Y or N) | % Asbestos / Type |
|-----------------------------|--|--------------|----------------------|----------------------|
| C-1 | 230912017.07.A | 230912017.07 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Concrete, Cementitious, Homogeneous, Gray, Green | | | |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| C-2 | 230912017.08.A | 230912017.08 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Concrete, Cementitious, Homogeneous, Gray, Green | | | |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |
| C-3 | 230912017.09.A | 230912017.09 | | |
| Location | : Bath | | | |
| Analyst Description / Color | : Concrete, Cementitious, Homogeneous, Gray, Green | | | |
| Asbestos Type | : NONE | | No | NAD |
| Other Material Type | : 100% Non-Fibrous Material | | | |

Jhair Gonzalez – Analyst

Paola Ducoing – Approved by

NAD = no asbestos detected; NA = not analyzed, PS = positive stop; Reporting Limits: CVES = 1%, 400 PT CT = 0.25%, 1,000 PT CT = 0.1%. The analyses of the samples in this report were performed and analyzed in accordance with the procedures outlined in EPA 600/R-93/116 (Method for Determination of Asbestos in Building Materials); EPA 600/M4-82-020 (Interim Method for the Determination of Asbestos in Builk Insulation Samples) and US Federal Register 40 CFR Appendix E to Subpart E of Part 763 (Interim Method of the Determination of Asbestos in Builk Insulation Samples). Samples were analyzed using Calibrated Visual Estimate (CVES), therefore results may not be reliable for samples with low concentration levels or other Non-Friable Organically Bound (NOB) materials. The limit of detection for this analytical method is less than one percent (<1%) and total sample constituents may total greater than 100% due to trace amounts. These results lie within the statistical limits of variability calculated with standard reference materials routinely analyzed in the laboratory. In multi-layer samples, unless otherwise specified, the asbestos concentration is reported for the layer where asbestos is found. This report only relates to the samples that were submitted and Ecologics Lab and its personnel assumes no responsibility and/or are not liable for any misinformation provided by the client such as "sample location" or "sample type." This report may contain specific data not covered by NVLAP and is identified if footnotes are present. This report was issued by Ecologics Lab which is accredited by NVLAP (Lab Code 600190-0) and may not be reproduced except in full, without written approval of this laboratory. This report may not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. NVLAP Lab Code: 600190-0



CHAIN OF CUSTODY



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| | CONTACT INFORMAT | PROJECT INFORMATION | | | | | | | |
|--|---|--|--|------------|-------------|------------------------------|------------------------------------|-------------------------------|------------------|
| | Magnolia Environmental, LL | | Project #: 6002 | | | | | | |
| Address: | 17226 1/2 Jersey Ave Artesi | a, Ca 90701 | Project Name: | | | | | | |
| Phone: | 562-922-3144 | | Project Location: 1995 Marry St. | | | | | | |
| | ndrea Pulsipher | | | | | versily | CA 92501 | | |
| Email resul | ts to: maglabresults@gmai | l.com | Date Sa | - | 0 | 1/12/2 | ٠ در | | |
| | | | Sample | d by: | The | - ama | | | |
| | ASBESTOS | | | | | | ROBIOLOGY | | |
| | ulk Analysis^ | _ | | • | | | (ST) (ASTM: D739 | | |
| The second secon | 000 Point Count^ (<0.1%) | All and the second seco | | | | 3 1015 1015 EMULTIC | ГМ: D7658-17R21) | | |
| 100 LINE 100 K-1,000K COX | 00 Point Count^ (<0.25%) | | | | | TANGE THE PART CONTROL STATE | E. coli (P/A) | | |
| | ualitative^ (Dust Wipe or So | • | ☐ Bac | teria: T | otal Co | | E. coli , Enteroc | | |
| | irborne Fiber Count (NIOSH 7 | | | | | | RIAL SCIENCE | | |
| | irborne Fiber Count with TV | VA (NIOSH 7400) | ∐ PLN | 1 Mater | rial Scie | ence / S | oot & Ash (AST) | M: D6602-13R18) | |
| Other: | | | | | | | | | |
| | d time (TAT): 3 Hrs | □ 8 Hrs □ 24 H | Irs 4 | 8 Hrs | 72 | Hrs _ | Other: | | |
| 1 0 | information/ Special instruc | | (| | | | - | | |
| | t 1st positive on samples gre | | | | | | | | |
| | osite 1 wall system sample it | found to be greate | er than o | or equa | I to 1% |). | | | 7 |
| Other: | | | | | COFCT | 00 | \$41CDO | DIOLOGY/DOS | |
| SAMPLE ID | LOCATION | DESCRIPTIO | N | | SBEST | FRIABLE | TIME | BIOLOGY/PCN FLOW | I DESCRIPTION OF |
| | | | | COND | SF/LF | Y/N | START STOP | START STOP | TOTAL |
| 1 661 | Buch | Gyrsum Bo | we | 6 | 314 | N | | | |
| 2 65-2 | V | | | | 1 | | | - | |
| 3 667 | Show | | | V | V | J | | | |
| 4 N-1 | Show | Joing Compo | lund | 6 | 314 | N | | | |
| 5 JL-L | V | | | | 1 | (| | | 75 |
| 6 Je-3 | Show | | | 1 | 1 | U | | | 1 1 1 1 |
| 7 (0) | Bith | Concrute | | 6 | 34 | N | | | |
| 8 C-2 | | | | | 1 | | | | |
| 9 (-3 | V | | | V | 1 | V | | | |
| ST: Spore Trap, | TL: Tape Lift, B: Bulk, SW: Swab, P/A: Pr | esence/ Absence, QTY: Qua | ntity, SF; Sq | uare Foot, | LF: Linear | Foot CON | D: G = Good; D = Dam | aged; SD = Significant | ly Damaged |
| Relinquish | ed By: | Date / Tir | N. 100 A. | eived E | 3y: | | | Date / Ti | me |
| Print Name: | To discuss | alish | Prin | t Name: | 1 | C | SEP 19 199 a | note 1 | 0 |
| Signatura | Mr Como | . 11/1/1 | 5 | atura | Smo | ira E | SEP 12 23 F | 09/12/2 | 5 |
| Signature: | Thisan | 12:10 1 | ^ Sign | ature: | | mile | | 12410 | |

*COC must be accurately, fully, and legibly completed and signed before ECOLOGICS LABORATORY may accept the project.

^Methods: App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116

Property Address: 1995 Market St. Riverside, CA 92501

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Date of Survey: May 4, 2023 Project Number: 5536

APPENDIX B

LEAD BASED PAINT PERFORMANCE CHARACTERIZATION SHEET

Performance Characteristic Sheet

EFFECTIVEDATE: December 1, 2015

MANUFACTURERANDMODEL:

Make: *Heuresis*Models: *Model Pb200i*

Source: ⁵⁷Co, 5 mCi(nominal-newsource)

FIELD OPERATION GUIDANCE

OPERATING PARAMETERS:

Action Level mode

XRF CALIBRATION CHECK LIMITS:

0.8 to 1.2 mg/cm² (inclusive)

SUBSTRATE CORRECTION:

Not applicable

INCONCLUSIVE RANGE OR THRESHOLD:

| ACTION LEVEL MODE READING DESCRIPTION | SUBSTRATE | THRESHOLD(mg/cm²) |
|---|-----------|-------------------|
| Results not corrected for substrate bias on any | Concrete | 1.0 |
| substrate | Drywall | 1.0 |
| | Metal | 1.0 |
| | Plaster | 1.0 |
| | Wood | 1.0 |

BACKGROUND INFORMATION

EVALUATION DATA SOURCE AND DATE:

This sheet is supplemental information to be used in conjunction with Chapter 7 of the HUD *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* ("HUD Guidelines"). Performance parameters shown on this sheet are calculated using test results on building components in the HUD archive. Testing was conducted on 146 test samples in November 2015, with two separate instruments running software version 2.1-2 in Action Level test mode. The actual source strength of eachinstrument on the day of testing was approximately 2.0 mCi; source ages were approximately one year.

OPERATING PARAMETERS

Performance parameters shown in this sheet are applicable only when properly operating the instrument using the manufacturer's instructions and procedures described in Chapter 7 of the HUD Guidelines.

XRF CALIBRATION CHECK:

The calibration of the XRF instrument should be checked using the paint film nearest 1.0 mg/cm² in the NIST Standard Reference Material (SRM) used (e.g., for NIST SRM 2579, use the 1.02 mg/cm² film).

If the average (rounded to 1 decimal place) of three readings is outside the acceptable calibration check range, follow the manufacturer's instructions to bring the instrument into control before XRF testing proceeds.

SUBSTRATE CORRECTION VALUE COMPUTATION:

Chapter 7 of the HUD Guidelines provides guidance on correcting XRF results for substrate bias. Supplemental guidance for using the paint film nearest 1.0 mg/cm² for substrate correction isprovided:

XRF results are corrected for substrate bias by subtracting from each XRF result a correction value determined separately in each house for single-family housing or in each development for multifamily housing, for each substrate. The correction value is an average of XRF readings taken over the NIST SRM paint film nearest to 1.0 mg/cm² at test locations that have been scraped bare of their paint covering. Compute the correction values as follows:

Using the same XRF instrument, take three readings on a bare substrate area covered with the NIST SRM paint film nearest 1 mg/cm². Repeat this procedure by taking three more readings on a second bare substrate area of the same substrate covered with the NIST SRM.

Compute the correction value for each substrate type where XRF readings indicate substrate correction is needed by computing the average of all six readings as shown below.

<u>For each substrate type</u> (the 1.02 mg/cm² NIST SRM is shown in this example; use the actual lead loading of the NIST SRM used for substrate correction):

Correction value = (1st + 2nd + 3rd + 4th + 5th + 6th Reading)/6 - 1.02 mg/cm²

Repeat this procedure for each substrate requiring substrate correction in the house or housing development.

EVALUATING THE QUALITY OF XRF TESTING:

Randomly select ten testing combinations for retesting from each house or from two randomly selected units in multifamily housing.

Conduct XRF re-testing at the ten testing combinations selected for retesting.

Determine if the XRF testing in the units or house passed or failed the test by applying the steps below.

Compute the Retest Tolerance Limit by the following steps:

Determine XRF results for the original and retest XRF readings. Do not correct the original or retest results for substrate bias. In single-family and multi-family housing, a result is defined as a single reading. Therefore, there will be ten original and ten retest XRF results for each house or for the two selected units.

Calculate the average of the original XRF result and the retest XRF result for eachtesting combination.

Square the average for each testing combination.

Add the ten squared averages together. Call this quantity C.

Multiply the number C by 0.0072. Call this quantity D.

Add the number 0.032 to D. Call this quantity E.

Take the square root of E. Call this quantity F.

Multiply F by 1.645. The result is the Retest Tolerance Limit.

Compute the average of all ten original XRF readings.

Compute the average of all ten re-test XRF readings.

Find the absolute difference of the two averages.

If the difference is less than the Retest Tolerance Limit, the inspection has passed the retest. If the difference of the overall averages equals or exceeds the Retest Tolerance Limit, thisprocedure should be repeated with ten new testing combinations. If the difference of the overall averages is equal to or greater than the Retest Tolerance Limit a second time, then the inspectionshould be considered deficient.

Use of this procedure is estimated to produce a spurious result approximately 1% of the time. That is, results of this procedure will call for further examination when no examination is warranted in approximately 1 out of 100 dwelling units tested.

TESTING TIMES:

Inthe Action Levelpaint test mode, the instrument takes the longest time to complete readings close to the Federal standard of 1.0 mg/cm². The table belows how the mean and standard deviation of actual reading times by reading level for paints amples during the November 2015 archive testing. The tested instruments reported readings to one decimal place. No significant differences in reading times by substrate were observed. These times apply only to instruments with the same source strength as those tested (2.0 mCi). Instruments with stronger sources will have shorter reading times and those with weaker sources, longer reading times, than those in the table.

| Mean and Standard Deviation of Reading Times in Action Level Mode by Reading Level | | | | |
|--|-----------------------------|------------------------------|--|--|
| Reading (mg/cm²) | Mean Reading Time (seconds) | Standard Deviation (seconds) | | |
| < 0.7 | 3.48 | 0.47 | | |
| 0.7 | 7.29 | 1.92 | | |
| 0.8 | 13.95 | 1.78 | | |
| 0.9 – 1.2 | 15.25 | 0.66 | | |
| 1.3 – 1.4 | 6.08 | 2.50 | | |
| > 1.5 | 3.32 | 0.05 | | |

CLASSIFICATION OF RESULTS:

XRF results are classified as **positive** if they are **greater than or equal** to the stated threshold for the instrument (1.0 mg/cm²), and *negative* if they are *less than* the threshold.

DOCUMENTATION:

A report titled *Methodology for XRF Performance Characteristic Sheets* (EPA 747-R-95-008) provides an explanation of the statistical methodology used to construct the data in the sheets, and provides empirical results from using the recommended inconclusive ranges or thresholds for specific XRF instruments. The report may be downloaded at http://www2.epa.gov/lead/methodology-xrf-performance-characteristic-sheets-epa-747-r-95-008-september-1997.

This XRF Performance Characteristic Sheet (PCS) was developed by QuanTech, Inc., under a contract with the XRF manufacturer.

Date of Survey: May 4, 2023

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Project Number: 5536

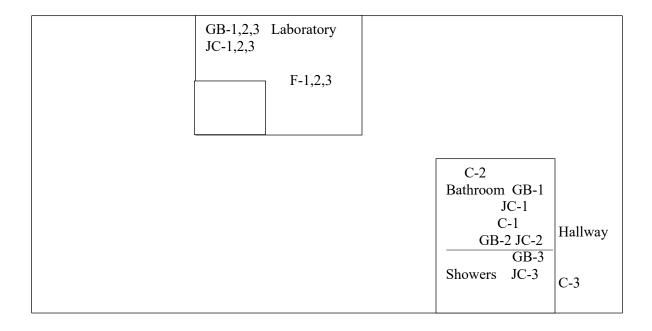
APPENDIX C

SITE MAP/SKETCH

Date of Survey: May 4, 2023 Project Number: 5536

Sketch not to scale.

Sample ID indicates location of sampling.



Page 25 of 30 Date of Survey: May 4, 2023

Project Number: 5536

APPENDIX D

SITE PHOTOGRAPHS

Date of Survey: May 4, 2023 Project Number: 5536



Picture 1: Work area of the WPD laboratory. Lead-based paint was not detected via XRF



Picture 3: Ceiling joint compound was determined to be ACM by CAC



Picture 2: Ceiling gypsum board sampled was found to not contain asbestos

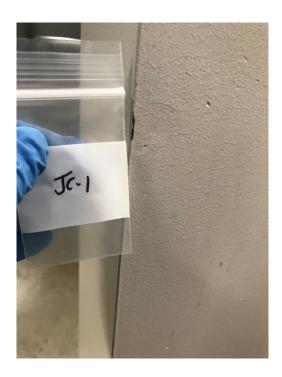


Picture 4: Black/Tan mastic layer associated with 12x12 beige floor tile sampled was found to contain asbestos

Date of Survey: May 4, 2023 Project Number: 5536



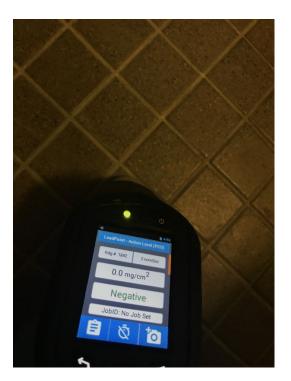
Picture 5: Gypsum board was sampled from the bathroom and showers



Picture 6: Joint compound was sampled from the bathroom and showers



Picture 7: Concrete was sampled from the bathroom



Picture 8: Lead-based paint was not detected via XRF on September 12, 2023

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Date of Survey: May 4, 2023 Project Number: 5536

APPENDIX E ACCREDITATIONS AND CERTIFICATION

Date of Survey: May 4, 2023 Project Number: 5536





STATE OF CALIFORNIA DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:

CERTIFICATE TYPE:

NUMBER:

EXPIRATION DATE:

Lead Inspector/Assessor

LRC-00003897

11/3/2023

Andrea Pulsipher

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

Date of Survey: May 4, 2023 Project Number: 5536

State of California Division of Occupational Safety and Health Certified Site Surveillance Technician



Nam

Certification No. 21-6706

Expires on __12/17/23

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.





STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH



LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL: C

CERTIFICATE TYPE:

NUMBER:

EXPIRATION DATE:

Lead Sampling Technician

LRC-00004184

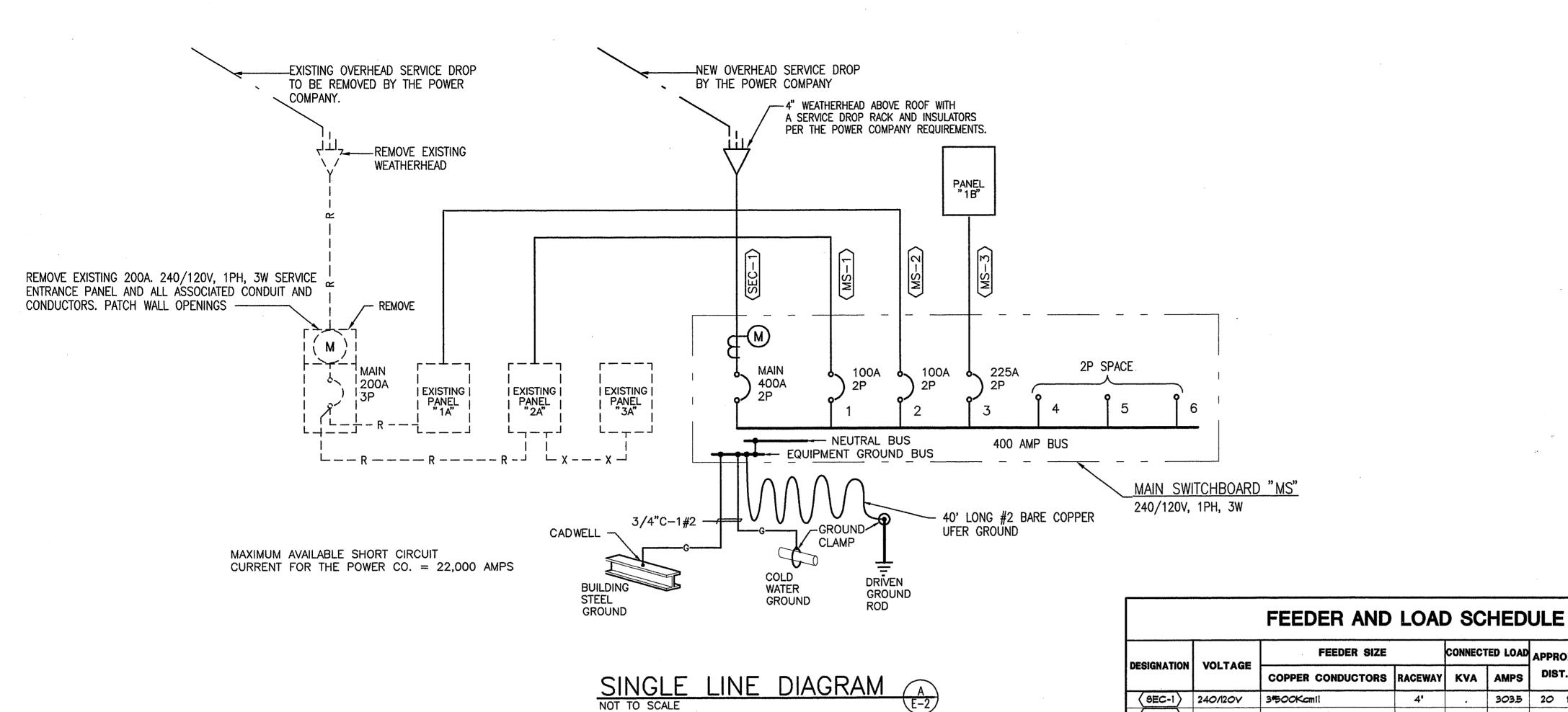
11/18/2023

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD

| · | GENERAL NOTES | ELECTRICAL SYMBOLS NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT. | REVISIONS BY |
|-----|---|--|---|
| 1. | MINIMUM WIRE SIZE FOR LINE VOLTAGE WIRING SHALL BE #12. | LIGHTING FIXTURE WALL MOUNTED. FLUORESCENT STRIPLIGHT FIXTURE, SURFACE MOUNTED ON CEILING. | |
| ۷. | ALL CONDUIT SIZES SHALL CONFIRM TO THE BASIC ELECTRICAL REGULATIONS OF THE CALIFORNIA ADMINISTRATIVE CODE, UNLESS NOTED AS LARGER. | FLUORESCENT LIGHT FIXTURE, RECESSED IN CEILING. FLUORESCENT LIGHT FIXTURE, SURFACE MOUNTED ON CEILING. | |
| 3. | SUBSCRIPTS, a,b,c, ETC., AT SWITCH SYMBOLS, ARE TO DISTINGUISH BETWEEN SWITCHES. | 2' x 4' (3-LAMP) FLUORESCENT FIXTURE WITH WHIP CONNECTION TO MASTER/SLAVE MODULES CONNECTING THE TWO SINGLE LAMPS TO ONE TWO LAMP BALLAST. | |
| 4. | +4'-6" INDICATES A MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTER OF EQUIPMENT OR OUTLET. | ROUND LIGHTING FIXTURE, RECESSED IN CEILING. LIGHTING FIXTURE, SURFACE MOUNTED ON CEILING. SELF-LUMINOUS EXIT SIGN, CEILING MOUNTED. | |
| 5. | INDICATES: 1 = FIXTURE TYPE;2/40 = NUMBER OF LAMPS AND WATTAGE PER LAMP. ALSO NUMBER ADJACENT TO FIXTURE = CIRCUIT NUMBER AND LOWER CASE LETTER = CONTROLLING SWITCH. | SELF-LUMINOUS EXIT SIGN, WALL MOUNTED 12" ABOVE DOOR. LETTER "L" DENOTES EXIT SIGN LOCATED WITHIN 4 INCHES OF THE LATCH SIDE OF DOOR, BOTTOM OF SIGN 6" | |
| 6. | M.H.INDICATES HEIGHT FROM FINISHED FLOOR TO BOTTOM OF FIXTURE | ABOVE FINISHED FLOOR. GFI GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE OUTLET, +18", OR AS NOTED. | |
| 7. | ALL OUTLETS SHALL BE INSTALLED AT THE HEIGHTS INDICATED IN THE SYMBOLS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. | DOUBLE DUPLEX GROUNDING CONVENIENCE OUTLET, +18", OR AS NOTED. DUPLEX GROUNDING CONVENIENCE OUTLET, +18", OR AS NOTED. | |
| 8. | REFER TO WIRING DIAGRAMS ON MECHANICAL DRAWINGS. | J JUNCTION BOX, ABOVE CEILING. JUNCTION BOX, WALL MOUNTED, +18" OR AS NOTED. | |
| 9. | SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. | THERMOSTAT +48" S WEATHERPROOF MOTOR DISCONNECT SWITCH. | Combs = Marr Architects Inc. |
| 10. | EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE ARCHITECTURAL DRAWINGS AND CABINET SHOP DRAWINGS TO INSURE THE PROPER HEIGHT AND LOCATION WITH RESPECT TO CABINETS, | TELEPHONE/DATA OUTLET, +18", OR AS NOTED. PROVIDE 3/4"C.O. INTO ACCESSIBLE CEILING SPACE. MOTOR OUTLET | 3393 Fourteenth Street |
| 11. | EQUIPMENT, ETC. COORDINATE WITH THE OTHER TRADES, IN ADVANCE OF CONSTRUCTION, | TWO-WAY ROOM OCCUPANCY SENSOR WITH SWITCH-PAK. LOCATE SWITCH-PAK IN ACCESSIBLE CEILING SPACE & PROVIDE 3/4"C-3#12 BETWEEN SENSOR & SWITCH-PAK. | Riverside, CA 92501 Phone (909) 686-3520 |
| | THE CEILING AREAS IN WHICH RECESSED LIGHTING FIXTURES OCCUR. THIS SHALL INCLUDE PLUMBING, HEATING, AND VENTILATING, AIR CONDITIONING AND CARPENTRY. IN THE EVENT OF ANY CONFLICT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. | ONE-WAY ROOM OCCUPANCY SENSOR WITH SWITCH-PAK. LOCATE SWITCH-PAK IN ACCESSIBLE CEILING SPACE & PROVIDE 3/4"C-3#12 BETWEEN SENSOR & SWITCH-PAK. | |
| 12. | GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES. | ● WALL SWITCH ROOM OCCUPANCY SENSOR FI FUSIBLE DISCONNECT SWITCH WITH FUSES SIZED AS REQUIRED. FLUSH MOUNTED PANELBOARD, +6'6" TO TOP. | G |
| 13. | A GREEN INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED IN EACH POWER CONDUIT CONTAINING 120 VOLTS OR HIGHER AND CONNECTED TO | SURFACE MOUNTED PANELBOARD, +6'6" TO TOP. SURFACE MOUNTED CABINET OR EQUIPMENT AS NOTED, +6'6" TO TOP. | N N N N N N N N N N N N N N N N N N N |
| | EACH OUTLET, ENCLOSURE, DEVICE, FIXTURE, ETC. THOUGHOUT THE ENTIRE PROJECT AS AN EQUIPMENT GROUND. THE RACEWAYS SHALL NOT BE USED FOR "EQUIPMENT GROUNDING". | SUFFIXES ON SWITCH SYMBOLS SHALL INDICATE THE FOLLOWING: | |
| | | NO SUFFIX = SINGLE POLE, 2 = 2 POLE, 3 = 3 WAY, P = PILOT LIGHT CONDUIT RUN CONCEALED ABOVE CEILINGS OR IN WALLS. | |
| | | | |
| | SPECIAL CONSTRUCTION NOTES | CONDUIT UP TO FLOOR ABOVE. CONDUIT DOWN TO FLOOR BELOW. | COSTR |
| 1 | THE CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING | FLEXIBLE STEEL CONDUIT. XX | OD DIS |
| 1. | CONDITIONS AT THE JOB SITE. NEW WORK SHALL BE COORDINATED WITH ALL EXISTING MATERIAL, EQUIPMENT, SUPPORTS AND OBSTRUCTIONS. THE PLANS INDICATE DIAGRAMMATICALLY THE ROUTE REQUIRED FOR THE NEW CONDUIT INSTALLATION. | ————————————————————————————————————— | FLO |
| 2. | MAKE ALL NECESSARY ALTERNATIONS TO COORDINATE AND CONNECT THE EXISTING WITH THE NEW ELECTRICAL WORK TO THE END THAT WHEN THE WORK IS COMPLETE, THE ENTIRE ELECTRICAL INSTALLATION, EXISTING AND NEW, IS IN A SATISFACTORY OPERATING CONDITION. | | RVATEMOL |
| 3. | PERFORM ELECTRICAL IN SUCH A MANNER AS NOT TO INTERFERE IN ANY WAY THE SATISFACTORY PERFORMANCE OF ELECTRICAL SYSTEM IN THE BUILDING. NONE OF THESE SYSTEM SHALL BE DISCONNECTED WHILE THE BUILDING IS IN USE, UNLESS SCHEDULED WITH AND AGREED TO BY THE OWNER IS WRITING. | (eg: 3 # 10, 3/4"C.) NOTE: HATCH MARKS DO NOT INCLUDE GROUND CONDUCTORS. BA PANELBOARD DESIGNATION. MTB TERMINAL CABINET OR BACKBOARD DESIGNATION. | COU ONSE |
| 4. | IF OVERTIME IS REQUIRED TO COMPLY WITH NOTE ABOVE, IT SHALL BE INCLUDED AS PART OF THE BID. | (MS) FEEDER DESIGNATION (SEE FEEDER SCHEDULE). (1) REFERENCE NOTE. | 0 S |
| 5. | ALL DRILLING, PATCHING, CUTTING, CHANNELING OF MASONRY, PLASTER OR DRYWALL WHICH IS REQUIRED TO INSTALL THE ELECTRICAL WORK SHALL BE DONE BY THIS | PANEL HOMERUN DESIGNATIONS: | TERS |
| 6. | CONTRACTOR. ALL NEW CONDUIT INSTALLED SHALL BE RIGID OR EMT. ALL CONDUCTORS SHALL BE | BA1-3 = SINGLE PHASE CIRCUITS WITH COMMON NEUTRAL TO PANEL "BA" BA1&3 = ONE SINGLE PHASE, TWO POLE CIRCUIT, NO NETRUAL TO PANEL "BA". | > 4 4 |
| 7. | COPPER. NOT ALL EXISTING ELECTRICAL SYSTEMS WITHIN THE REMODELED AREA, THAT MUST | THE SHOEL THE PARTY OF THE SHOOM, NO WELKONE TO TAKEE BA. | æ ≥ ≥ |
| | BE DEMOLISHED AND/OR REMOVED ARE SHOWN ON ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL MAKE ALLOWANCES IN HIS BID FOR THE REMOVAL OF THE ELECTRICAL SYSTEMS WITHIN THE AREA OF REMODEL. BRANCH CIRCUITS SERVING | | |
| | ELECTRICAL SYSTEMS OUTSIDE THE AREA OF REMODEL SHALL BE RECONNECTED AND CONTINUITY MAINTAINED. ELECTRICAL EQUIPMENT INDICATED AS EXISTING TO BE | \mathcal{H}_{ω} | |
| | RELOCATED SHALL BE CAREFULLY BE REMOVED AND STORED FOR FUTURE RE- INSTALLATION. THE CONTRACTOR MAY RE-USE ABANDONED CONDUITS FOR HOMERUNS TO EXISTING PANELS. | | |
| | ELECTRICAL SYMBOLS — EXISTING | | |
| | EZZOTTIONE OTTOBOLO EXTOTTIO | | |
| | C + EXISTING LIGHT FIXTURE ⇒ EXISTING DUPLEX CONVENIENCE OUTLET. | | |
| | EXISTING JUNCTION BOX, WALL MOUNTED. EXISTING JUNCTION BOX, ABOVE CEILING. | | |
| | I.E.C. EXISTING TELEPHONE TO REMAIN UNLESS NOTED OTHERWISE. INTERCEPT AND EXTEND EXISTING CONDUIT. REWIRE AS NOTED. | | JMD DATE |
| | -X EXISTING CONDUIT AND WIRE TO REMAINR EXISTING CONDUIT AND WIRE TO BE REMOVED. | | MAY 1995 JOB NO. |
| | WHERE CONDUIT IS BELOW GRADE, REMOVE WIRES, CUT OFF CONDUIT AT GRADE AND PATCH FLOOR. | PROFESSIONAL P. D. | 3918 SHEET |
| | - XX EXISTING CONDUIT TO BE REWIRED AS NOTED. | BEST TO SEE THE SEE TH | F-1 |
| | "R" ADJACENT TO EXISTING SYMBOL INDICATES DEVICE TO BE REMOVED. BA EXISTING PANELBOARD DESIGNATION. | No. 4848 EXP. JUNE 1998 SRP ENGINEERING CONSULTING ELECTRICAL & MECHANICAL ENGINEERS | - ' |
| | | 6345 Balboa Blvd., Suite 275 Office Park IV Encino, California 91316 818-708-0080 * Fax: 818-708-0090 | 2∥ of24 sheets |

9-111

.



EXISTING PULL BOX TO REMAIN-

HYDROLOGY 119

NO CHANGE

-TANKS

NO CHANGE

CONSTRUCTION LABORATORY

EXISTING PANEL "3A"
240/120V, 1PH, 3W—
TO REMAIN.

CURING ROOM

NO CHANGE

SHAKER ROOM

122 NO CHANGE

PANEL 'IB" (NEW) 240/120 VOLTS MAIN BKR: 225 AMP -2 POLE, NON-TRIPPING 1 PHASE LOCATION ROOM 112 225 A. BUSSING FEEDER MS-3 ENTER CAB'T. AT TOP SURFACE MTG. WATTAGE LTGREC MIS CIR BKR BKR CIR MISRECLTG WATTAGE # A # B LOCATION 8 800 HALL STORAGE
9 900 STORAGE LOCKERS, TOILETS 3 20-1 5 20-1 7 20-1 STORAGE, OFFICE EXTERIOR LIGHTS 1200 STORAGE STORAGE 9 20-1 STORAGE 900 STORAGE 11 20-1 T20 OFFICE TELEPHONE BACKBOARD 13 20-1 EXHAUST FAN EF-I 1080 STORAGE, TOILETS AIR CONDITIONING UNIT AC-2 AIR CONDITIONING UNIT AC-1 21 20-1 23 20-1 ROOF RECEPT. FORK LIFT CHARGER 25 20-1 27 20-1 29 20-1 31 20-1 O SPACE O GPACE 33 20-1 35 20-1 O SPACE 37 20-1 20-1 38 O SPACE 39 20-1 O SPACE 41 20-1 ♦ A= 16730W TOTAL CONNECTED LOAD: 34450 WATTS OR 1435 AMPS # 240 VOLTS - 1 \$ TOTAL CODE LOAD: 9940 WATTS X 125 + 24510 WATTS = 36935 WATTS OR 153.9 AMPS AT 240Y, IPH, 3W

REVISIONS BY



Architects Inc.

3393 Fourteenth Street Riverside, CA 92501

Phone (909) 686-3520

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OD (

OZ

FE TIOI DEL

RIVERSIDE COUNTY WATER CONSERVAT WAREHOUSE REMOD

REMOVE PULLBOX, CUT CONDUIT AND RE-INSTALL ON CONDUIT AT +12" ABO CORE DRILL WALL AND STUB CONDUIT INTO TELEPHONE ROOM COORDINATE ALL WORK WITH RIVERSIDE COUNTY COMMUNICATIONS DEPARTMENT.

(5) EXISTING RADIO ANTENNA TO REMAIN.

(L) (6) EXISTING MOTOROLA RADIO TO BE REMOVED BY THE OWNER.

(10) EXISTING UNIT HEATER TO BE REMOVED. DISCONNECT AND REMOVE ALL ASSSOCIATED CONDUIT AND CONDUCTORS.

(11) REMOVE EXISTING FLUORESCENT FIXTURE AND RETURN TO THE OWNER.

(12) CONNECT TO EXISTING LIGHTING CIRCUIT.

EXISTING MEZZANINE AND OFFICE, LOCKERS AND TOILETS TO BE REMOVED. DISCONNECT AND REMOVE ALL ELECTRICAL SYSTEMS.

(15) NEW LIGHT FIXTURE CONNECT TO EXISTING LIGHTING CIRCUIT.

REFERENCE NOTES:

(1) EXISTING UNDERGROUND TELEPHONE CONDUITS TO REMAIN.

(2) EXISTING 2" TELEPHONE CONDUIT UP TO PULLBOX AT +16' ON BUILDING. REMOVE PULLBOX, CUT CONDUIT AND RE-INSTALL ON CONDUIT AT +12" ABOVE GRADE. CORE DRILL WALL AND STUB CONDUIT INTO TELEPHONE ROOM. COORDINATE ALL WORK WITH RIVERSIDE COUNTY COMMUNICATION DEPARTMENT.

(3) CUT EXISTING 2" CONDUIT +12" ABOVE GRADE INSTALL NEW 12"x12"x4"D WEATHERPROOF PULLBOX AND CORE DRILL AND STUB CONDUIT INTO TELEPHONE ROOM. COORDINATE ALL WORKWITH RIVERSIDE COUNTY COMMUNICATIONS DEPARTMENT.

(4) EXISTING 4" TELEPHONE CONDUIT TO PULLBOX AT +16' ON BUILDING.

(7) EXISTING RADIONICS SECURITY PANEL TO BE REMOVED BY THE OWNER.

8 REMOVE EXISTING TELEPHONE BOARD. COORDINATE ALL WORK WITH THE RIVERSIDE COUNTY COMMUNICATION DEPARTMENT AND THE TELEPHONE

(9) REMOVE EXISTING RECEPTACLE AND PROVIDE BLANK COVER.

13 REMOVE EXISTING PENDANT LIGHT FIXTURE AND PROVIDE BLANK COVER

MAY 1995 3918

BLDG. 4 DEMOLITION FLOOR PLAN

RECEIVING/ STORAGE

NO CHANGE

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

2

BLDG. 3 DEMOLITION FLOOR PLAN

(SEC-1)

MS-1

MS-2

240/120V

240/120V

240/120V

3*500Kcm11

240/120V 3º2/0 AND 1º4 GRD.

39 AND 196 GRD.

34 AND 16 GRD.

EXISTING PANEL "2A" ¬ 240/120V, 1PH, 3W

TO REMAIN.

NOTE: SOME NEW ELECTRICAL WORK IS SHOWN ON THIS PLAN



CONNECTED LOAD APPROX. %

4'

1 1/2"

1 1/2"

2'

DIST. DROP

80.0 10 ft NEG % EXISTING LOAD

80.0 10 ft NEG % EXISTING LOAD

1435 | 160 ft NEG % NEW LOAD

EXISTING OVERHEAD SERVICE

- REMOVE EXISTING

METER SOCKET

- EXISTING PANEL "1A"

240/120V, 1PH, 3W TO REMAIN.

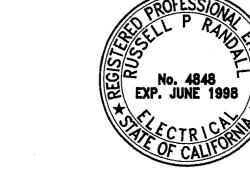
EXISTING TYPE "8" FIXTURE TO REMAIN—

DROP TO BE REMOVED BY THE POWER

(j)

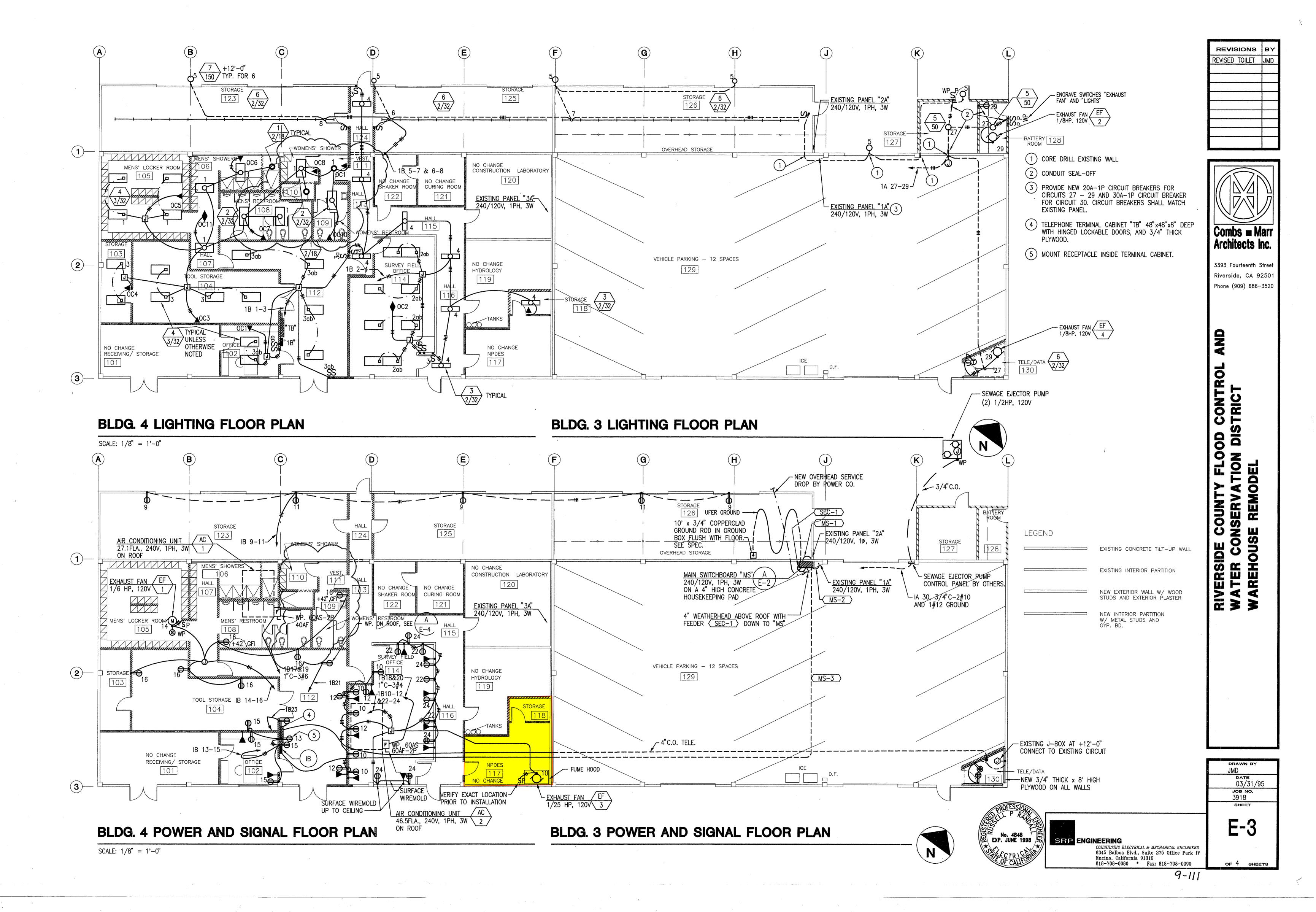
3035 20 ft NEG % .

REMARKS



SIRIP ENGINEERING CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 6345 Balboa Blvd., Suite 275 Office Park IV Encino, California 91316 818-708-0080 * Fax: 818-708-0090

22 of 24 SHEETS

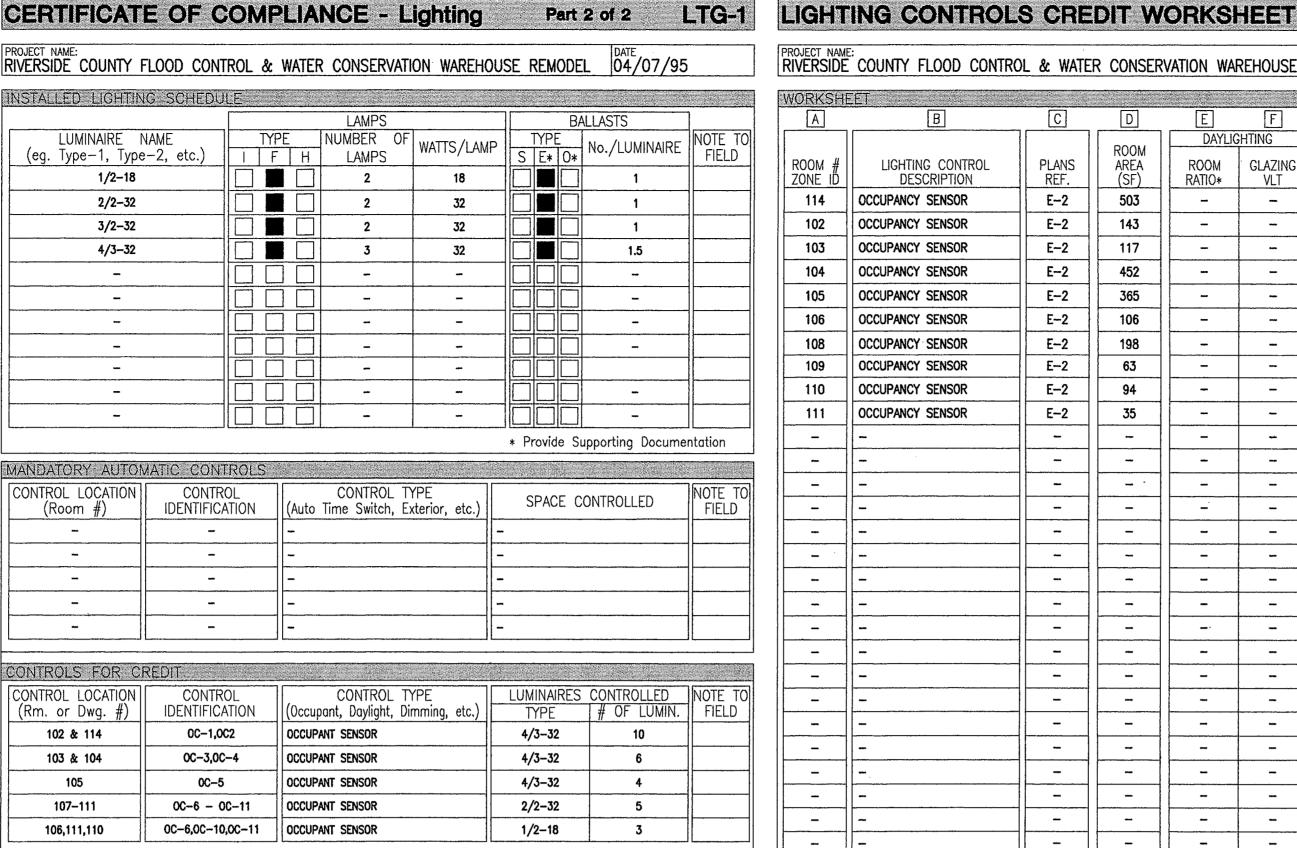


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|--|--|--|--|--|
| CERTIFICAT | E OF COMPLIANC | E - Liabtina | Part 1 of | '2 LTG-1 |
| | E OF COMPERATE | /L - Eignang | | E LIGHT |
| | FLOOD CONTROL & WATER CO | ONSERVATION WAREHOUSE | REMODEL | DATE 04/07/95 |
| PROJECT ADDRESS: 1995 MARKET STR. | . RIVERSIDE, CA 92502 | | | |
| PRINCIPAL DESIGNER - LIGHT JOSEPH L. MCDOW | FING: | TELEPHONE: (818) 708 | -0080 | Building Permit # |
| DOCUMENTATION AUTHOR: JOSEPH L. MCDOW | | TELEPHONE: (818) 708 | | Checked by/Date Enforcement Agency Use |
| GENERAL INFORMA | TION | | | |
| DATE OF PLANS: 04/14/95 | BUILDING CONDITIONED FLOO 3425 | R AREA: | | |
| BUILDING TYPE: | NONRESIDENTIAL | HIGH RISE RESIDENTIAL | HOTEL/M | OTEL GUEST ROOM |
| PHASE OF CONSTRUCTION: | NEW CONSTRUCTION | ADDITION | ALTERATIO | М |
| METHOD OF LIGHTING COMPLIANCE | COMPLETE BUILDING | AREA CATEGORY | AILORED | PERFORMANCE |
| documents is consisted calculations submitted requirements contained Please check one: | Designer hereby certifies that the nt with the other compliance form with this permit application. The d in sections 110, 119, 130 through the provising the | ns and worksheets, with the s proposed building has been do ugh 132, and 146 or 149. | pecifications, esigned to m | and with any other neet the lighting |
| this document as or architect. I affirm that I an 5537.2 of the Bu | the person responsible for its particle in the person responsible for its particle in the exemption to a siness and Professions Code to a licensed contractor preparing documents. | reparation: and that I am a c Dovision 3 of the Business a sign this document as the per | ivil engineer, nd Profession son responsi | electrical engineer ns Code by Section ble for its preparation; |
| affirm that I am | n eligible under the exemption to | Dovision 3 of the Business a | nd Profession | ns Code by Section |
| for its preparation | the; and for the following reason: _ | Code to sign this do | cument as th | ne person responsible |
| PRINCIPAL LIGHTING DESIGNER RUSS RANDALL | R — NAME: SIGNATURE: | | LIC. NO. E4848 | DATE: 04/07/95 |
| LIGHTING MANDATO | DRY MEASURES | | | |
| Indicate location on p | plans of Note Block for Mandatory | / Measures | E-4 | |
| INSTRUCTIONS TO | APPLICANT | | | |
| Nonresidential Manual | ons on the use of this and all Er published by the California Energ plans for all submittals. Part 2 m | y Commission. | • | |

LTG-2: Required for all submittals.

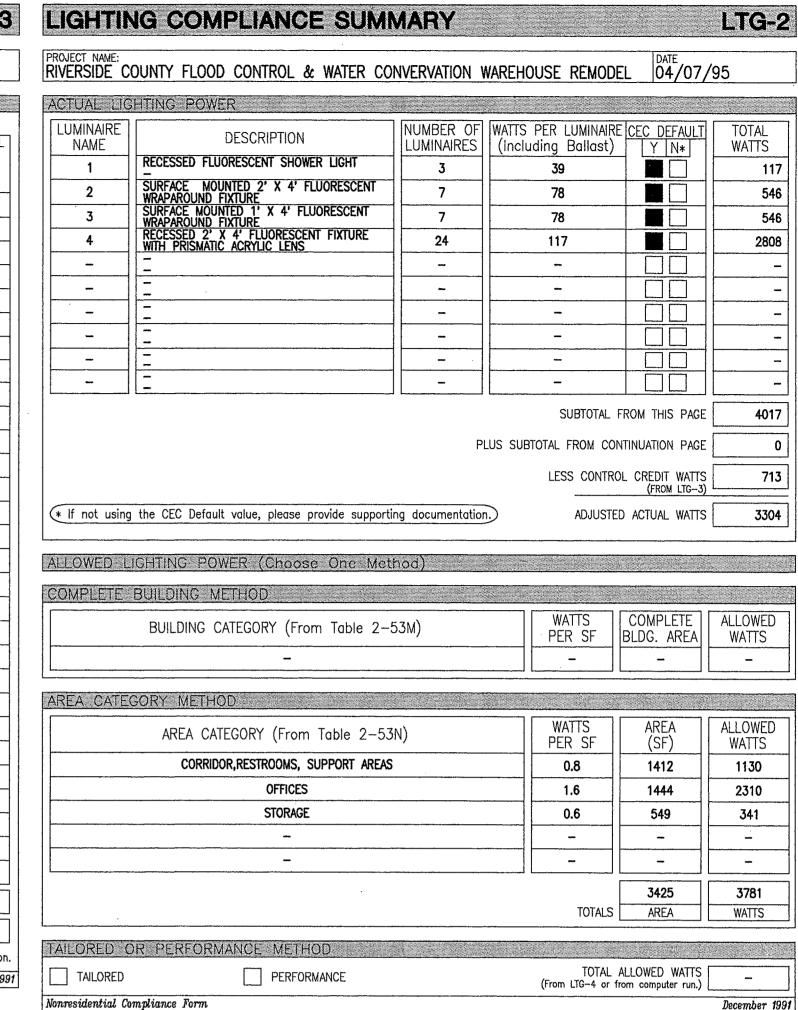
LTG-3: Optional. Use only if lighting control credits are taken.

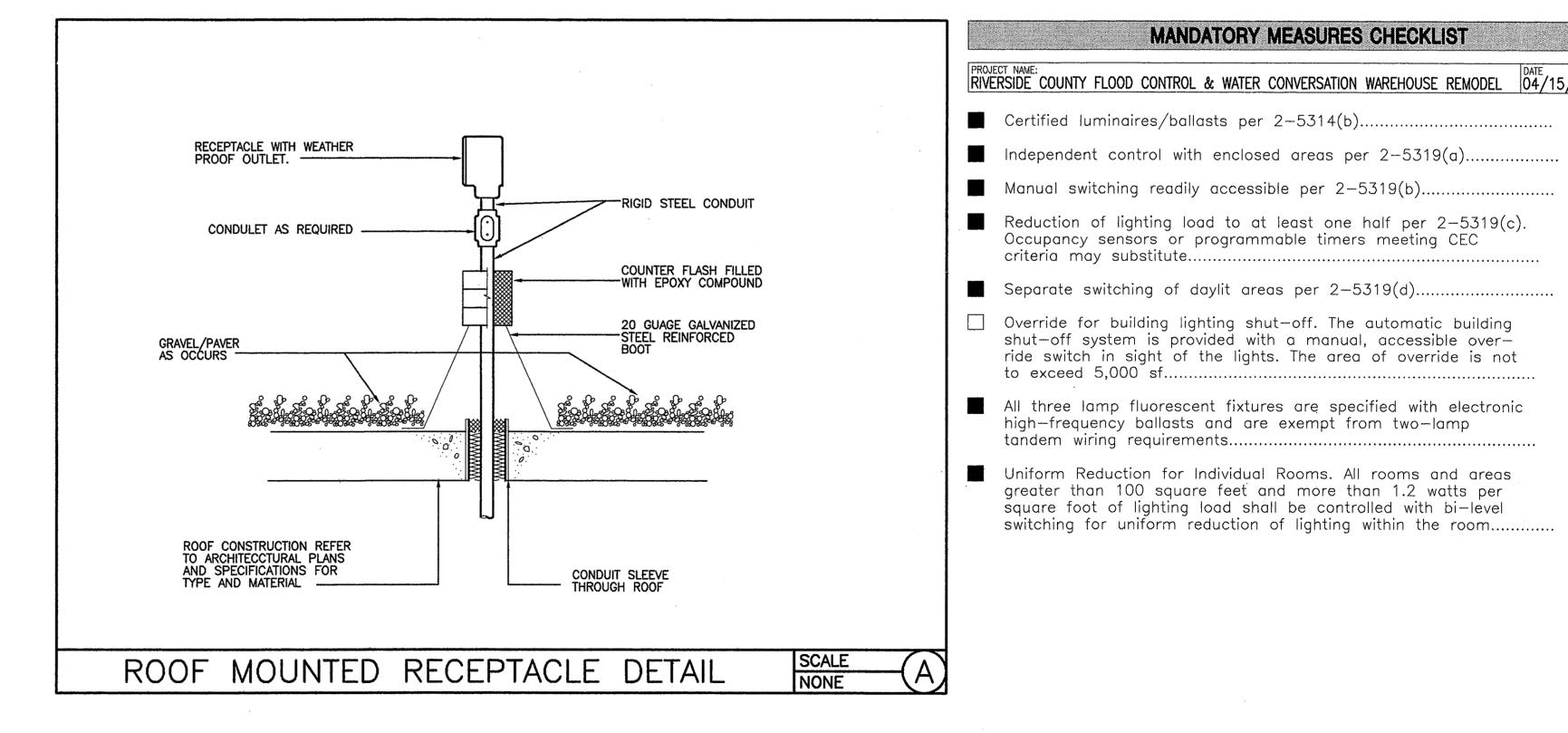
LTG-4: Optional. Use only if Tailored Method is used. Parts 2 and 3 only if applicable.

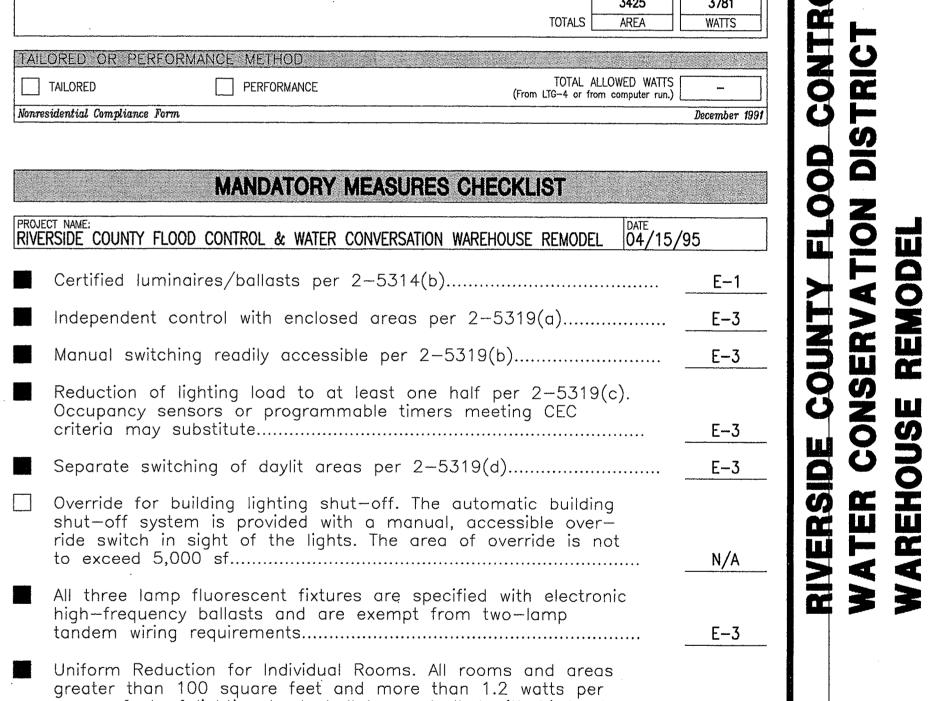


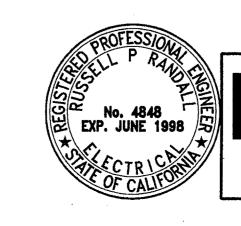
ES TO FIELD — For Building Department Use Only

| VORKSHI | B | C | D | E | F | G | H | |
|--------------------------------|---|---------------|----------------------|----------------|----------------|------------------|-------------------------|--------------------------|
| | | | | | GHTING | | | CONTROL |
| ROOM # ZONE ID | LIGHTING CONTROL DESCRIPTION | PLANS REF. | ROOM AREA (SF) | ROOM RATIO* | GLAZING VLT | WATTS OF CONTROL | LIGHTING ADJUST. FACTOR | CREDIT WATTS (GxH) |
| 114 | OCCUPANCY SENSOR | E-2 | 503 | _ | - | 936 | 0.1 | 94 |
| 102 | OCCUPANCY SENSOR | E-2 | 143 | _ | | 234 | 0.2 | 47 |
| 103 | OCCUPANCY SENSOR | E-2 | 117 | _ | - | 234 | 0.6 | 140 |
| 104 | OCCUPANCY SENSOR | E-2 | 452 | _ | - | 468 | .0.6 | 281 |
| 105 | OCCUPANCY SENSOR | E-2 | 365 | _ | - | 468 | 0.1 | 47 |
| 106 | OCCUPANCY SENSOR | E-2 | 106 | _ | - | 195 | 0.2 | 39 |
| 108 | OCCUPANCY SENSOR | E-2 | 198 | - | - | 156 | 0.2 | 31 |
| 109 | OCCUPANCY SENSOR | E-2 | 63 | _ | | 78 | .0.2 | 17 |
| 110 | OCCUPANCY SENSOR | E-2 | 94 | - | _ | 47 | .02 | 9 |
| 111 | OCCUPANCY SENSOR | E-2 | 35 | _ | - | 39 | 0.2 | 8 |
| | _ | _ | - | _ | | _ | | - |
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| | - | | | | - | | - | |
| | _ | | | _ | | | | |
| | | | | | PAGE | TOTAL | | 713 |
| * For windows For skylights | , use the Window Wall Ratio for the roc s, use the Skylight—to—Roof ratio for th | e room. | | | BUILI | DING TOTAL - | | 713 |
| | | | | | Enter | on LTG-2: Actu | al Lighting Pov | wer calculatio |
| onresidentia | l Compliance Form | | | | | | | December 19 |









SRP ENGINEERING

CONSULTING ELECTRICAL & MECHANICAL ENGINEERS 6345 Balboa Blvd., Suite 275 Office Park IV Encino, California 91316 818-708-0080 * Fax: 818-708-0090

240F24 SHEETS

MAY 1995 JOB NO.

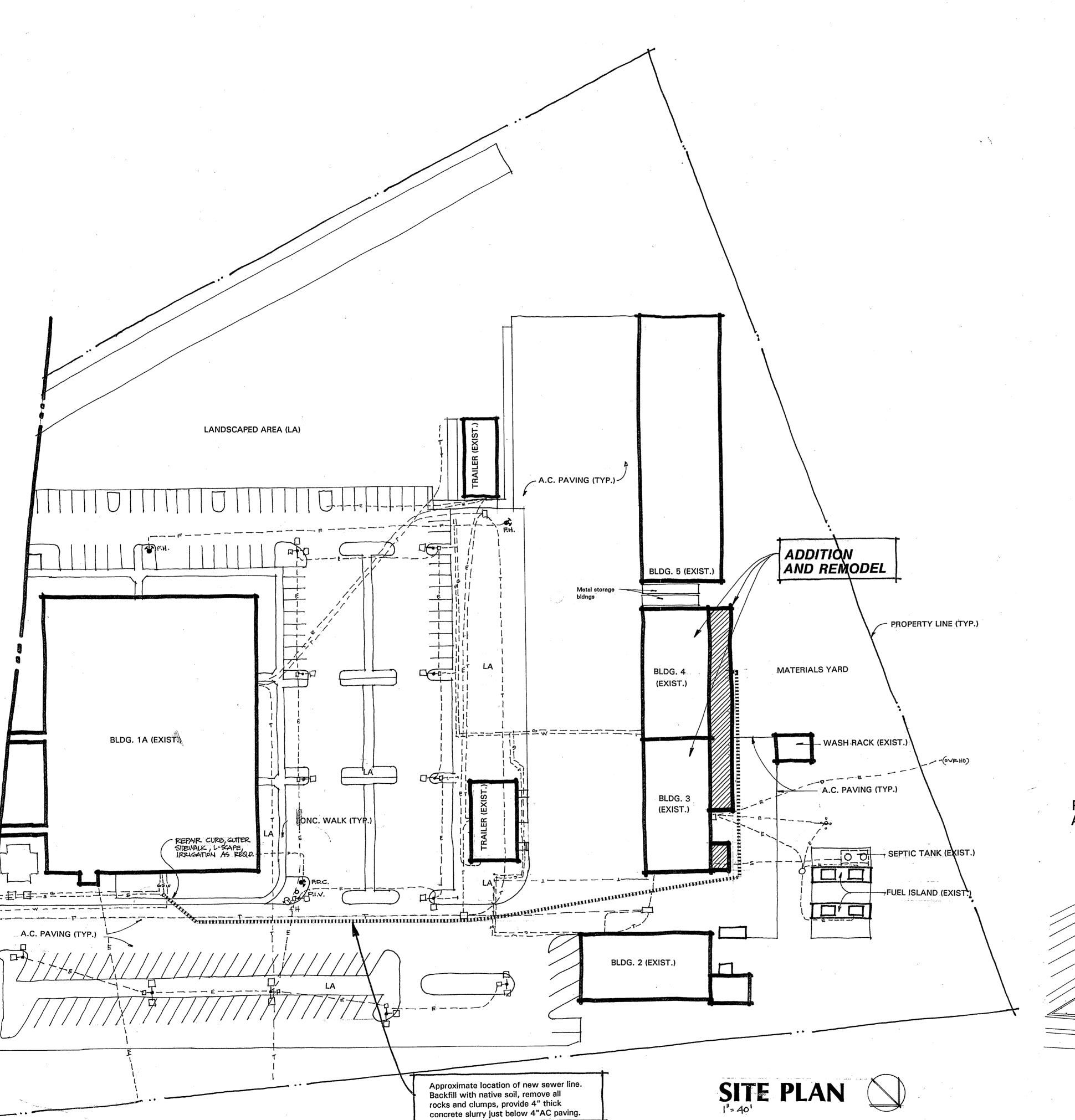
REVISIONS BY

Combs = Marr

3393 Fourteenth Street

Riverside, CA 92501

Phone (909) 686-3520



SHEET INDEX

ARCHITECTURAL

- A1 SITE PLAN
- DEMOLITION PLAN FLOOR PLAN AND ELEVATIONS
- **ROOF PLAN**
- A5 REFLECTED CEILING PLAN
 A6 RESTROOM PLAN/ FINISH SCHEDULE
 A7 DETAILS/ DOOR SCHEDULE

STRUCTURAL

- GENERAL NOTES AND TYPICAL DETAILS GENERAL NOTES AND TYPICAL DETAILS
- FOUNDATION PLAN
- **ROOF FRAMING PLAN**

- NOTES, SCHEDULES AND LEGENDS DUCT PLANS AND NOTES
- **DETAILS, TITLE 24 NOTES**

- PO.1 NOTES, SCHEDULES AND LEGENDS
- P1 SITE PLAN P2 PLUMBING PLAN
- ENLARGED PLUMBING PLAN

ELECTRICAL *

- E1 NOTES AND SYMBOLS
 E2 DEMOLITION PLAN AND SINGLE LINE DIAGRAM
- POWER PLAN AND LIGHTING PLAN
- **DETAILS, TITLE 24 NOTES**

PROJECT DATA

BUILDING TYPE: 3-N NON SPRINKLERED

AREA SUMMARY BLDG 3

EXISTING OFFICE AREA TO REMAIN

REMODELED AREA

635 SF WAREHOUSE

1,100 SF **RESTROOMS/ LOCKER ROOM**

OFFICES

CIRCULATION

TOTAL AREA OF BLDG 3

AREA SUMMARY NEW WAREHOSE ADDITION

NEW WAREHOUSE ADDITION

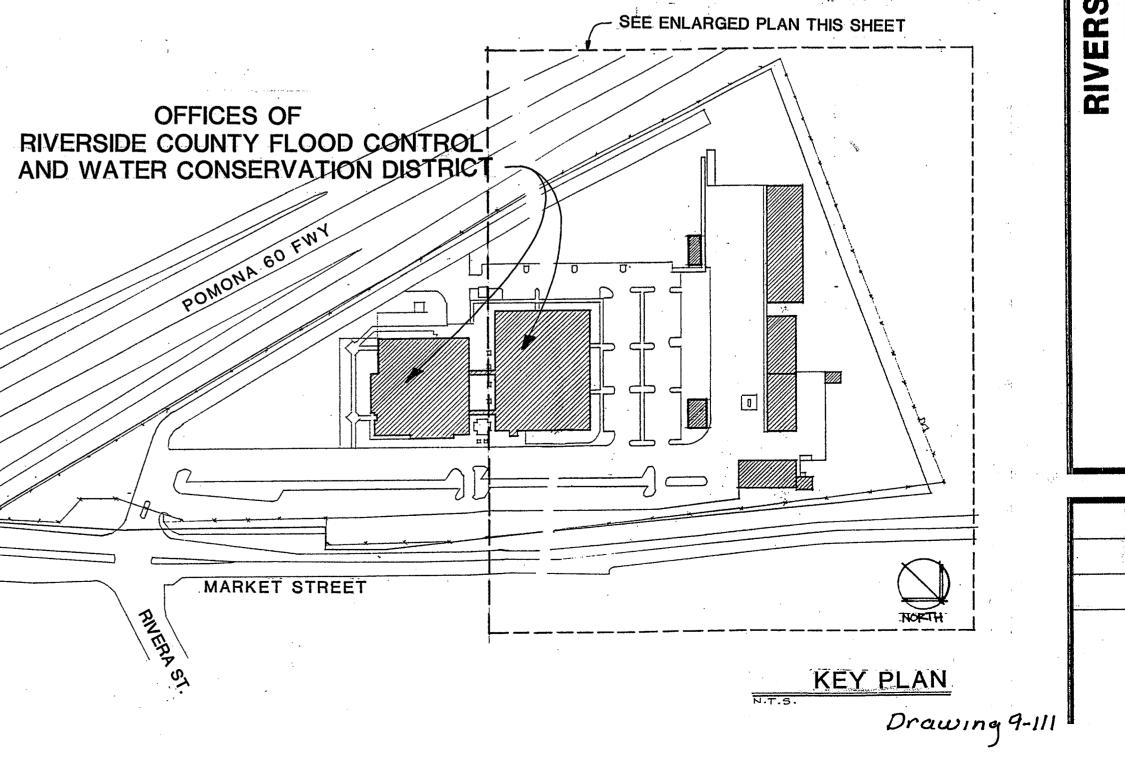
2,640 SF

5,000 SF

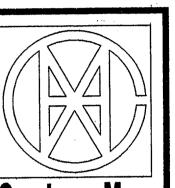
3,410 SF

700 SF

985 SF



REVISIONS



Combs Marr Architects Inc.

3393 Fourteenth Street Riverside, CA 92501 Phone (909) 686-3520

CONTROL OUNTY FLOOD C SERVATION DIST REMODEL RIVERSIDE COUNTY WATER CONSERVAT WAREHOUSE REMOD

> DRAWN BY BKG DATE MAY 1995 JOB NO. 170-5 SHEET A1

PRINCIPAL ENVELOPE DESIGNER - NAME PHILIP COMBS **ENVELOPE MANDATORY MEASURES** Indicate location on plans of Note Block for Mandatory Measures SHEET A-2 (THIS SHEET)

I affirm that I am eligible under the exemption to Division 3 of the Business and Professions Code by Section ___

Code to sign this document as the person responsible for its

licensed contractor preparing documents for work that I have contracted to perform.

preparation; and for the following reason:

For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, please refer to the Nonresidential Manual published by the California Energy Commission ENV-1: Required on plans for all submittals. Part 2 may be incorporated in schedules on plans.

ENV-2: Used for all submittals; choose appropriate version depending on method of envelope compliance. ENV-3: Optional. Use if default U-values are not used. Choose appropriate version for assembly U-value to be calculated.

CERTIFICATE OF COMPLIANCE Part 2 of 2

PROJECT NAME RIVERSIDE COUNTY FLUDO CONTROL DATE HIGHT 31-95

INSULATION FI-VALUE CONSTRUCTION TYPE NOTE TO LOCATION/COMMENTS: (eg. Wall-1, Floor-1) (eg. R-19, R-22, etc.) (eg. Block, Wood, Metal) FIELD (eg. Suspended Ceiling, Demising, etc.) Tilt UP LONG AU EXT. WALL KOOF-1 1-30 uppl. ALL FORF

| WINDOW NAME (eg. Window-1) | NO. OF PANES | FRAME TYPE (eg. Wood, Metal, etc.) | EXTERIOR SHADE ? | OVERHANG CREDIT ? | GLAZING TYPE (eg. Clear, Tinted) | NOTE T |
|-------------------------------|-----------------|---------------------------------------|------------------|----------------------|-------------------------------------|---------|
| JAZM6-1 | | METAL | No | No | CLEAR | |
| | | | _ | | | \$ 1008 |
| | | | | | | 11 11% |
| | | | | | | |
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| SKYLIGHT NAME (eg. Sky-1) | NO. OF PANES | FRAME TYPE (eg. Wood, Metal, etc.) | SKYLIGHT MATERIAL (eg. Glass, Plastic, etc.) | GLAZING TYPE (eg. Clear, etc.) | NOTE |
|------------------------------|-----------------|---------------------------------------|---|-----------------------------------|------|
| N/A | | | | | |
| | | | | | |
| | | | | 1 | |
| | | · | | | |

|--|--|

ENERGY COMPLIANCE MANDATORY MEASURES

Installed insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material. Section 10-103(a)3

Before the building may be occupied, installation certificates for manufactured devices regulated by the Appliance Standards or Part 5, shall be posted adjacent to the building permit(s).

1) identify features required to verify compliance with the Appliance Standards and Part 6;

2) include a statement indicating that the installed devices conform to the Appliance Standards and Part 6 and the requirements for such devices given in the plans and specifications approved by the local enforcement agency;

3) State the building permit number under which the construction or installation was performed.

All insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 1712 and 1713 of the UBC.

——— All Exterior Joints and openings in the building envelope that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.

Site Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors). Manufactured Doors and Windows installed shall have air infiltration rates certified by the manufacturer per 2-5316(a)1.

Manufactured fenestration products shall:

1) Have a temporary label, not to be removed before inspections by the enforcement agency, listing the certified U-value and certifying that air infiltration rates not exceeding those shown in Table No. 1-E.

2) Have a permanent label listing the U-value, certifying organization, and rating procedures. Section 10-103(b)

The builder shall provide the building owner, manager, and original occupants the following:

1) A list of the heating, cooling, water heating, and lighting systems and features, materials, components, and mechanical devices, conservation or solar devices installed in the building, and instructions on how to use them efficiently.

2) Required routine maintenance action shall be clearly stated and incorporated on a readily accessible label. The label may be limited to identifying the maintenance manual.

3) A description of the quantities of outdoor and recirculated air that the ventilation system is designed to provide to each area.

Section 10-103(a)4

After installing wall, celling, or floor insulation, the installer shall post in a conspicuous location in the building a certificate signed by the installer stating that the installation is consistent with the plans and the requirements of Section 10-103(a)2.A. The certificate shall also state the manufacturer's name and material

REVISIONS 2 BUTG 95.95 BKE



3393 Fourteenth Street Riverside, CA 9250

Phone (909) 686-3520

ONTRO FLO ON ON ISE

xisting concrete tilt-up wall

REFERENCE NOTES

floor flush with existing.

fountain to remain.

Remove existing door

Remove existing window.

new door, see structural.

Existing door to remain, typ.

Remove existing mezzanine, columns, stairs,

Patch concrete walls and floor where damaged by the removal of the items in

note #1, and where necessary to cover voids left by the removal of fasteners, piping and conduit.

Existing ice machines and drinking

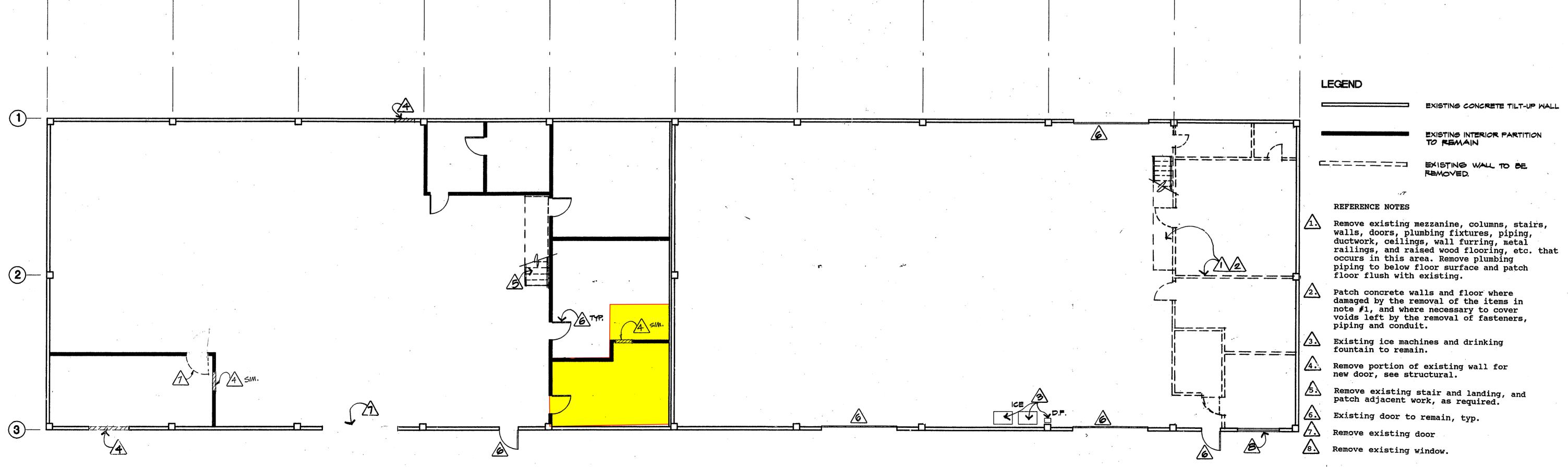
Remove portion of existing wall for

Remove existing stair and landing, and patch adjacent work, as required.

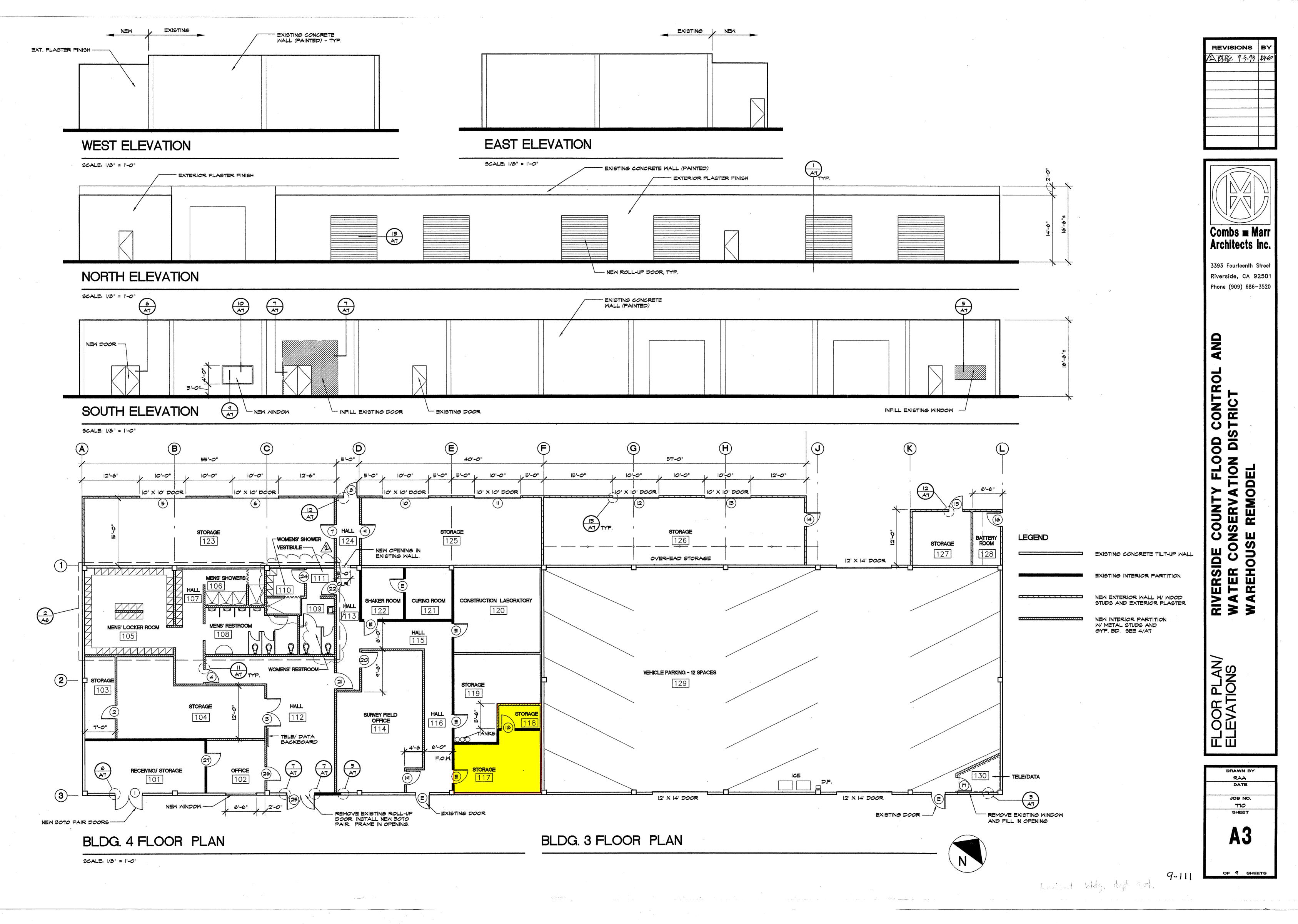
DEMOLITION PLAN

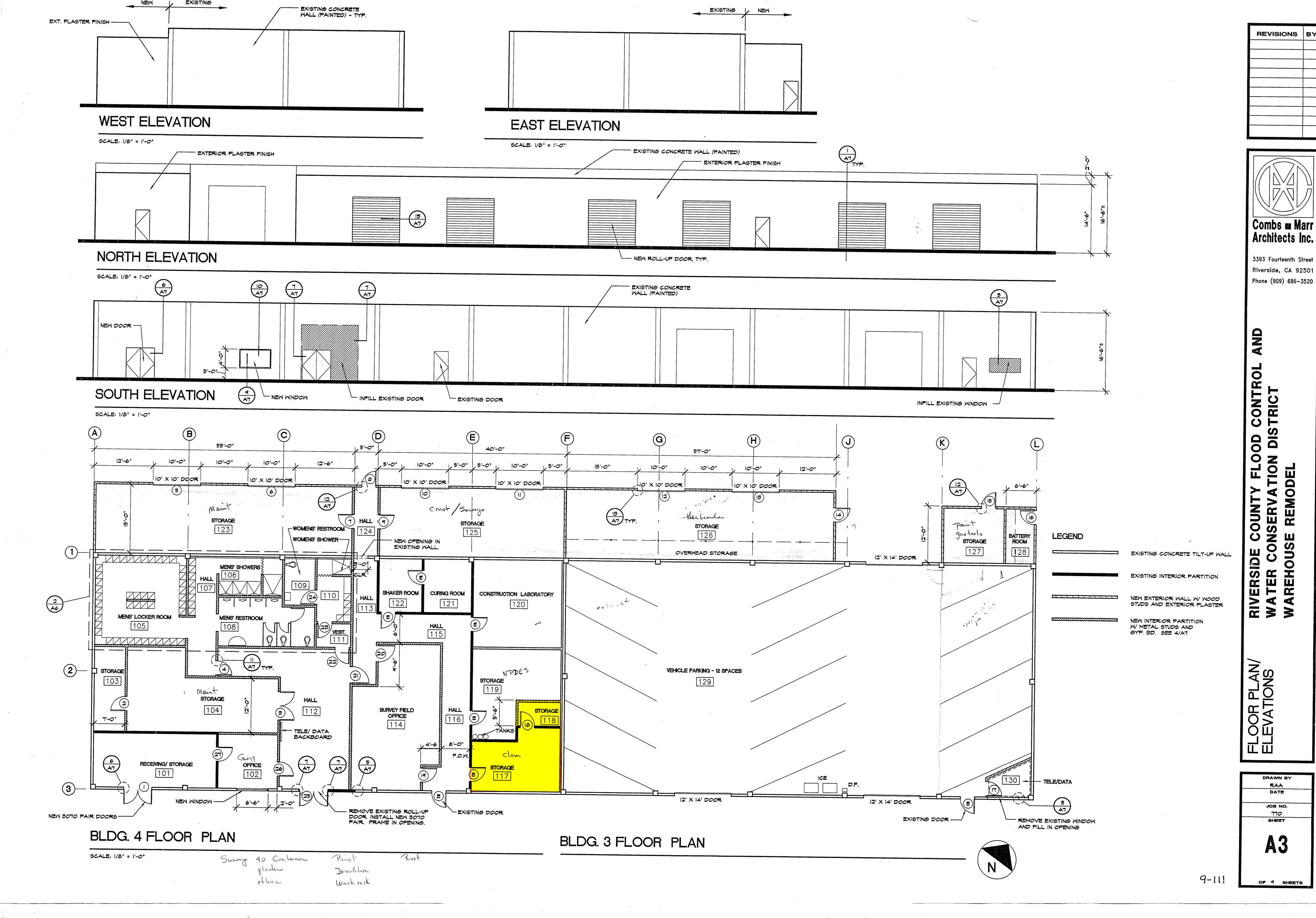
MAY 1995 JOB NO.

2 OF ZA SHEETS



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





1 Scupper/ Overflow Detail

REFERENCE NOTES

Existing roof to remain. Do not walk on this roof or use it in any way during construction. The contractor shall maintain this roof clear of any type of construction materials.

New built up bituminous roof, see specs.

Existing HVAC unit to remain.

4. New HVAC unit, SEE MECH. DRAWINGS.

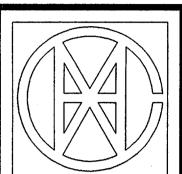
Existing roof mounted ventilator, to be removed and opening closed with plywood to match existing. Remove existing curb as required to provide a flush surface.

6. New sheet metal scupper, downspout and overflow drain. See detail I this sheet.

 Remove existing roof on this portion of building and provide new built up bituminous roof per specs.

Existing exhaust fan to remain, provide new 4"x4" redwood sleepers under existing metal frame rework existing ductwork as required. Provide new flashing around duct per roofing manufacturers recommendations.

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3393 Fourteenth Street Riverside, CA 92501 Phone (909) 686-3520

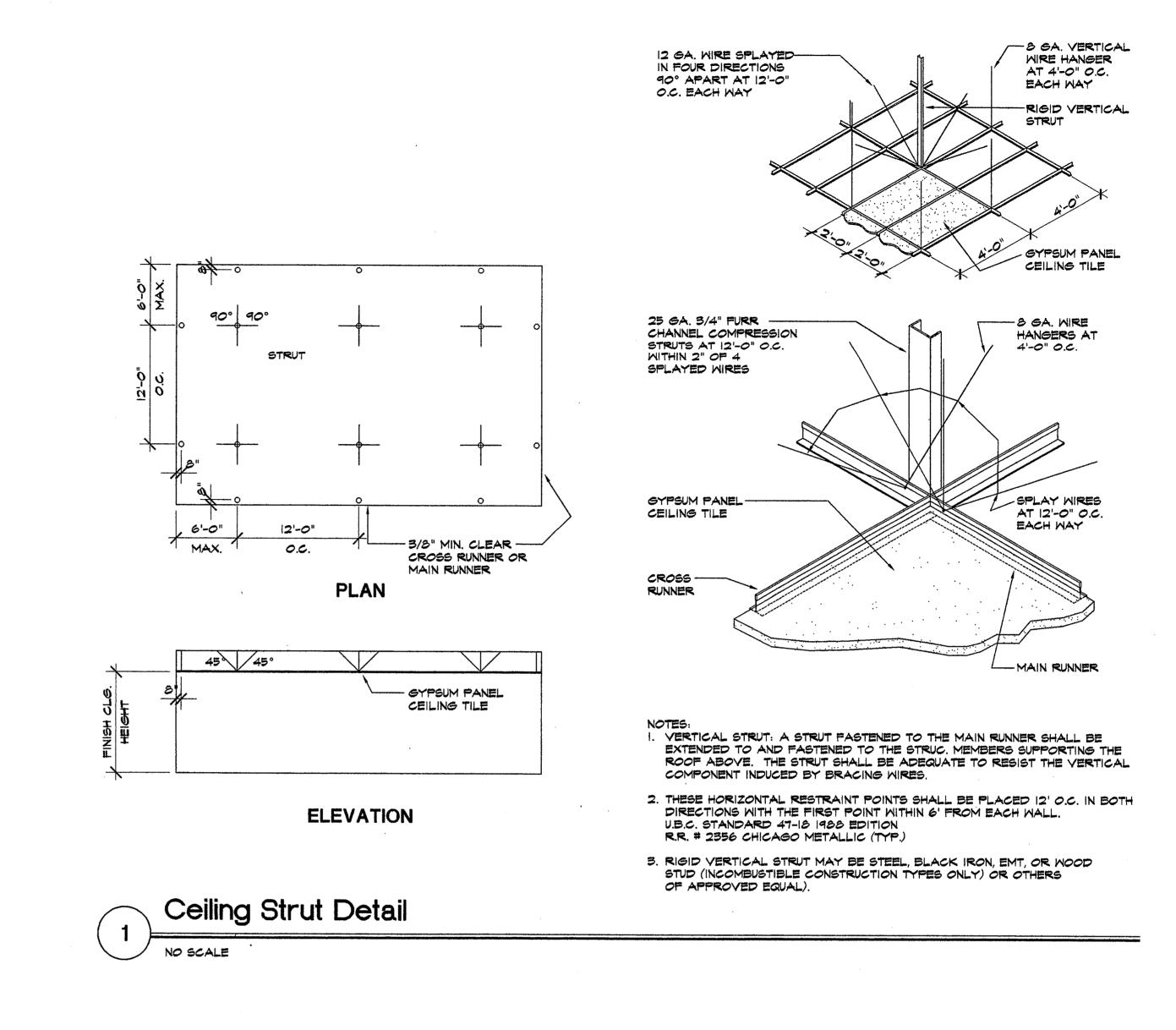
RIVERSIDE COUNTY FLOOD CONTROL WATER CONSERVATION DISTRICT WAREHOUSE REMODEL

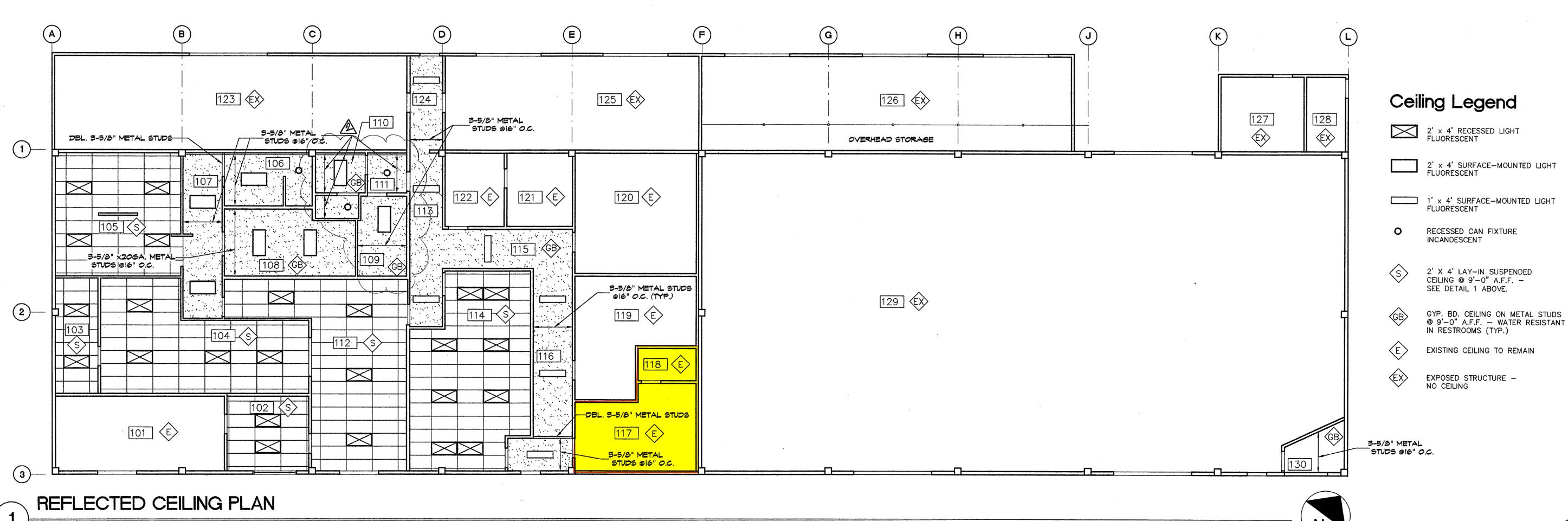
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RAA
DATE
MAY 1995
JOB NO.
770
SHEET

-111 4 of 24 sheets

ROOF PLAN

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





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

REVISIONS BY 2 BLDG. 9.5-95 BLG



Combs **m** Marr Architects Inc.

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Phone (909) 686-3520

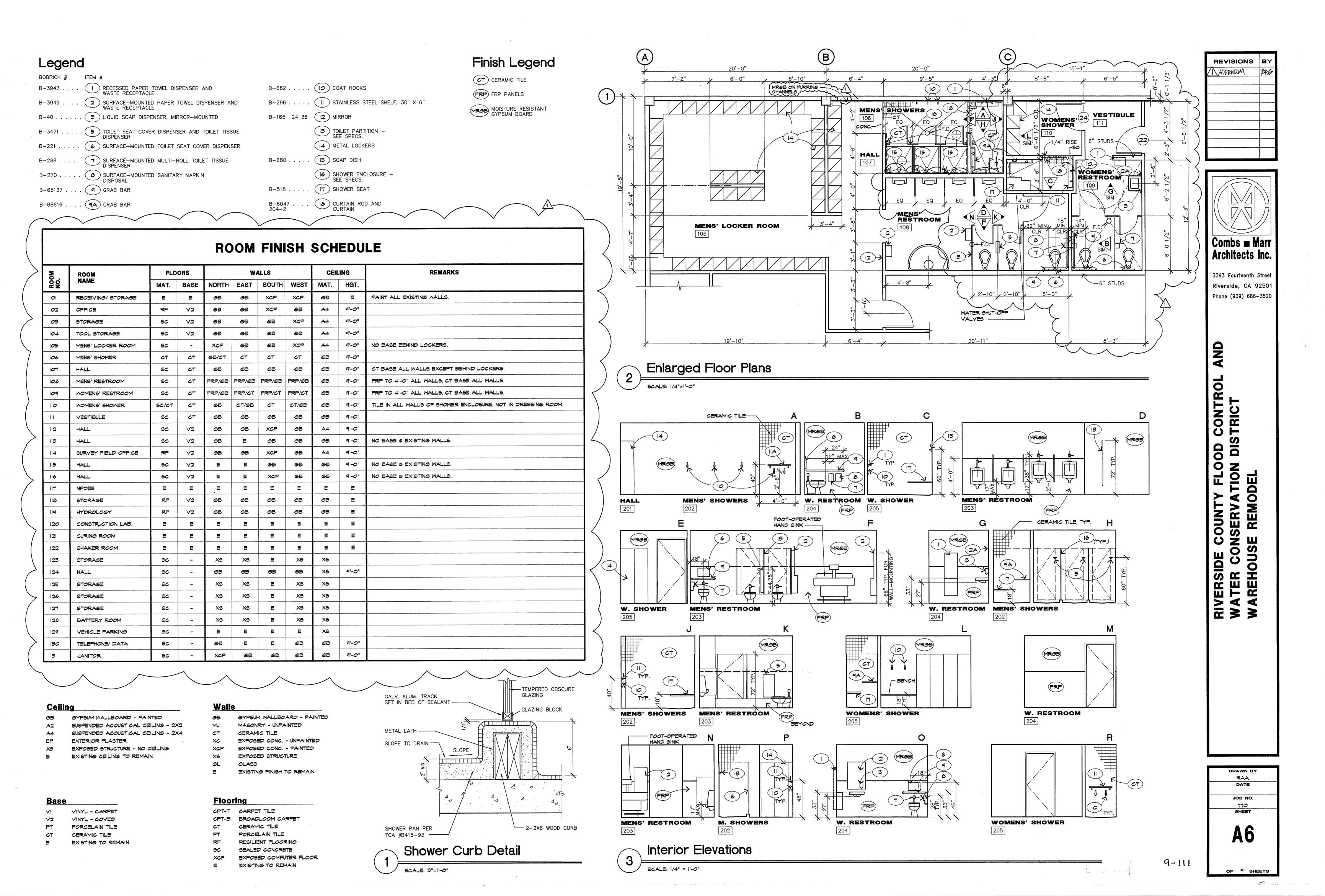
AND

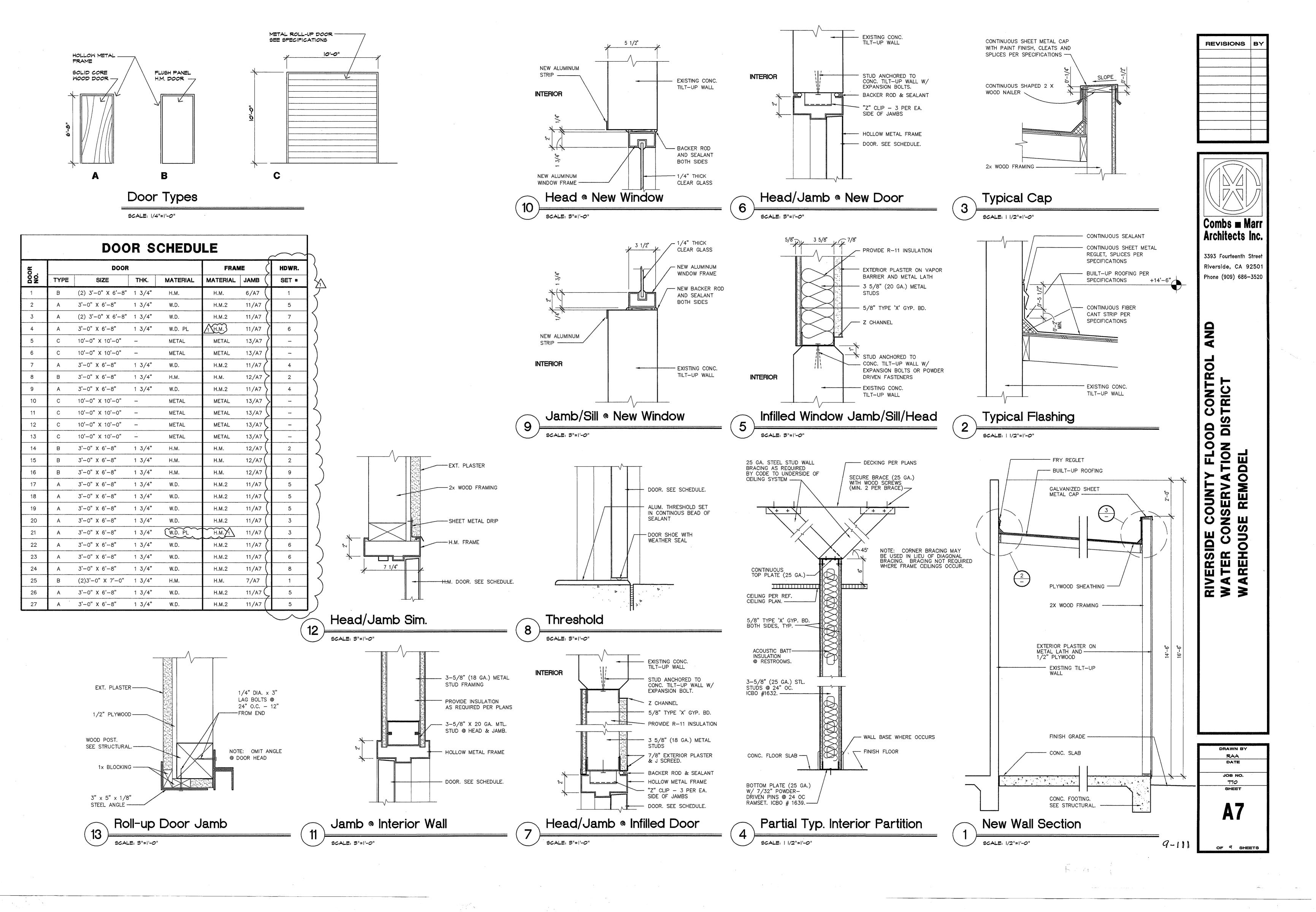
CONTROL RIVERSIDE COUNTY FLOOD WATER CONSERVATION DI WAREHOUSE REMODEL

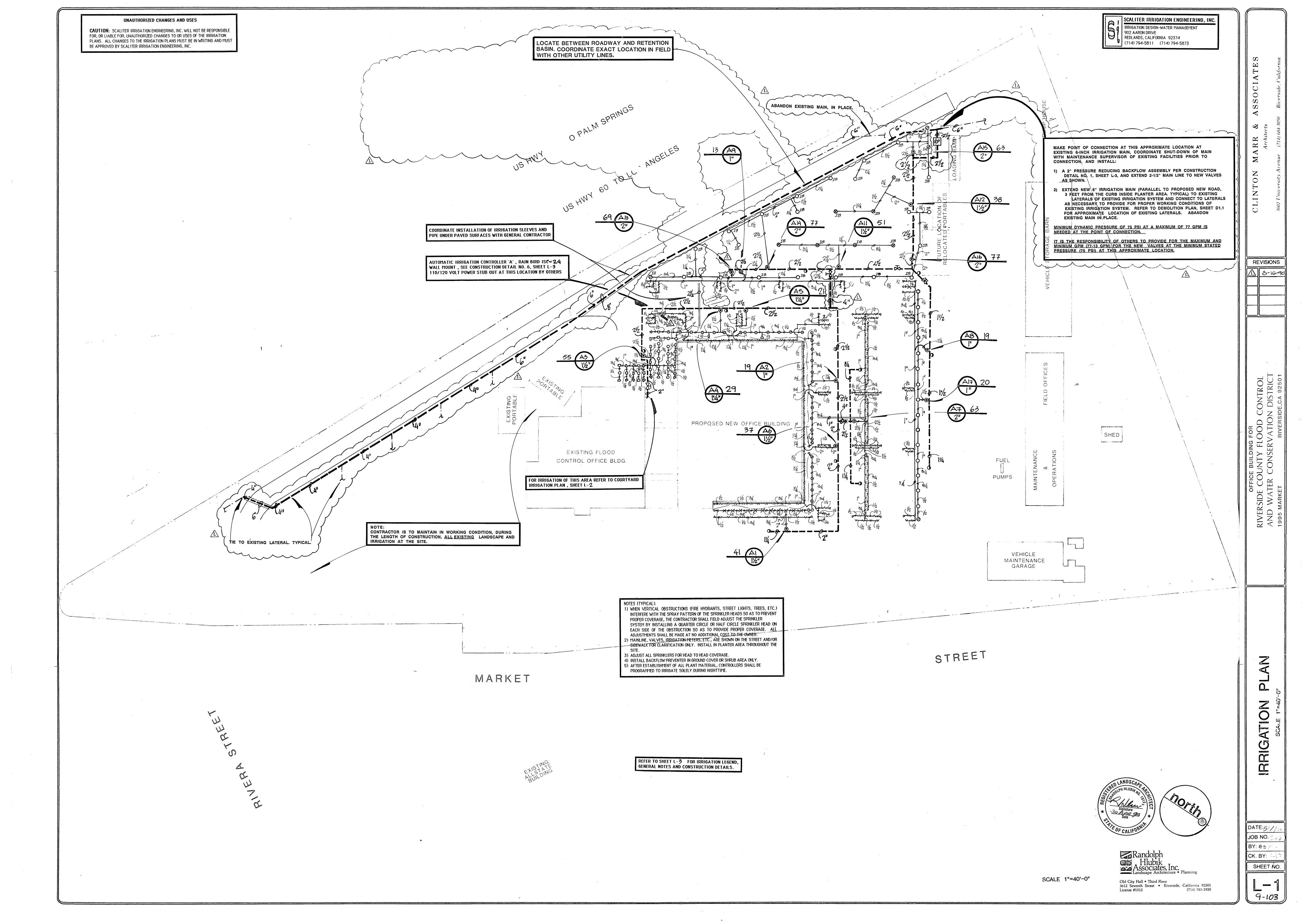
RAA 3/21/95 JOB NO. 770 SHEET

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The College to Set







PACKAGED ROOF TOP GAS/ELECTRIC

THE UNIT SHALL MEET ALL THE FOLLOWING CHARACTERISTICS:

AIRFLOW = 1200 CFM @ 0.5 IN. E.S.P.

O.A. = 220 CFM MINIMUMCOOLING CAPACITY = 39,500 BTU/H @ 105 DEGREE F AMBIENT TEMPERATURE AND 80 DEGREE F/67 DEGREE F ENTERING DRY BULB

AND WET BULB. SEER = 10.00

HEATING (LOW)

INPUT = 80,000 BTU/HOUTPUT = 65,000 BTU/H

AFUE = 78%

THERMAL EFFICIENCY = 80% **ELECTRICAL CHARACTERISTICS:** 230 VOLTS-1 PHASE-60 HZ

SUPPLY FAN MOTOR = .33 HP, 2.4 FLA, 7.2 LRA COMPRESSOR MOTOR = 3 HP, 18.0 FLA, 92.0 LRA CONDENSER FAN MOTOR = .25 HP, 2.0 FLA, 5.3 LRA

> UNIT FLA = 27.1UNIT WEIGHT = 750 LBS

UNIT SHALL BE TRANE MODEL YCD036 COMPLETE WITH ROOF CURB AND ECONOMIZER.

PACKAGED ROOF TOP GAS/ELECTRIC

THE UNIT SHALL MEET ALL THE FOLLOWING CHARACTERISTICS:

AIRFLOW = 2000 CFM @ 0.5 IN. E.S.P. O.A. = 640 CFM MINIMUM

COOLING CAPACITY = 56,000 BTU/H @ 105 DEGREE F AMBIENT TEMPERATURE

AND 80 DEGREE F/67 DEGREE F ENTERING DRY BULB AND WET BULB.

SEER = 12.00

HEATING (LOW) INPUT = 90.000 BTU/HOUTPUT = 73.000 BTU/H

AFUE = 78%THERMAL EFFICIENCY = 80%

ELECTRICAL CHARACTERISTICS: 230 VOLTS-1 PHASE-60 HZ SUPPLY FAN MOTOR = .6 HP, 5.3 FLA, 11.1 LRA

COMPRESSOR MOTOR = 5 HP, 28.8 FLA, 142.0 LRA CONDENSER FAN MOTOR = .5 HP, 5.2 FLA, 6.5 LRA UNIT FLA = 46.5

UNIT WEIGHT = 800 LBS

UNIT SHALL BE TRANE MODEL YCDO60 COMPLETE WITH ROOF CURB AND ECONOMIZER.

AIR DISTRIBUTION SCHEDULE

MODULAR ADJUSTABLE SUPPLY AIR DIFFUSER

NECK SIZE = 8" X 8" AIR FLOW = AS INDICATED ON DWG. PANEL SIZE = 24° X 24°

CEILING TYPE = T-BAR UNIT SHALL BE METAL AIRE SERIES 9000 COMPLETE WITH OPPOSED BLADE

SAME AS (A) EXCEPT:

NECK SIZE = 10° X 10°

DAMPER AND ROUND NECK ADAPTER OR EQUAL.

SAME AS (A) EXCEPT:

CEILING TYPE: HARD CEILING UNIT SHALL BE OF CEILING FLUSH TYPE.

PERFORATE CEILING RETURN REGISTER:

NECK SIZE = 6" X 6" AIR FLOW = AS INDICATED ON DWG.

PANEL SIZE = 24° X 24° CEILING TYPE = T-BAR

UNIT SHALL BE METAL AIRE SERIES 7000R COMPLETE WITH OPPOSED BLADE

DAMPER AND ROUND NECK ADAPTER OR EQUAL.

SAME AS (1) EXCEPT:

NECK SIZE = 8" X 8"

SAME AS (1) EXCEPT NECK SIZE = 10° X 10°

SAME AS (1) EXCEPT:

NECK SIZE = 12° X 12°

PANEL SIZE = 10" X 10" CEILING TYPE = HARD CEILING

UNIT SHALL BE OF CEILING FLUSH TYPE.

EXHAUST AIR REGISTER

NECK SIZE = 6" X 6" AIR FLOW = AS INDICATED ON DWG.

UNITS SHALL BE METAL AIRE SERIES RHD. COMPLETE WITH OPPOSED BLADE DAMPER AND ROUND NECK ADAPTER.

GENERAL NOTES

- ALL INSTALLATION TO CONFORM TO UNIFORM MECHANICAL CODE AND ALL OTHER LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- THE MECHANICAL SUB-CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES TO ELIMINATE ANY FIELD AND INSTALLATION PROBLEMS.
- COORDINATE ALL CEILING DIFFUSERS WITH REFLECTED CEILING PLAN OR AS DIRECTED BY THE ARCHITECT.
- THE MECHANICAL SUB-CONTRACTOR SHALL CONFIRM ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT AND CONTROLS.

ALL CEILING AND WALL ACCESS DOORS OR PANELS (WHERE SHOWN OR REQUIRED

- FOR INSPECTION AND MAINTENANCE TO FIRE DAMPERS, VALVES, CONTROLS AND EQUIPMENT) TO BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. WHERE SPECIFIC DETAILS ARE NOT SHOWN OR SPECIFIED, INSTALLATION SHALL BE BASED
- ON THE RECOMMENDATIONS OF THE LATEST ISSUE OF THE 'ASHRAE GUIDE' OR 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE'.
- BASED ON THE RECOMMENDATIONS OF THE LATEST ISSUE OF THE 'SMACNA GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS'.
- AFFIX A MAINTENANCE LABEL TO MECHANICAL EQUIPMENT AND A MANUAL SHALL BE PROVIDED FOR THE OWNER'S USE.

PROVIDE SEISMIC RESTRAINT SUPPORTS FOR ALL DUCTWORK AND PIPING PER CODE

- TRANSVERSE JOINTS ON DUCTWORK SHALL BE SEALED WITH APPROVED MASTIC. USE OF DUCT TAPE NOT PERMITTED.
- DUCT SIZES SHOWN ON DRAWINGS ARE NET INSIDE DIMENSIONS, IN ORDER TO ACCOUNT FOR DUCT WRAP OR DUCT LINING INSULATION, AND ARRIVE AT AN OVERALL DIMENSION TAKEN UP BY DUCT, THE THICKNESS OF THESE INSULATIONS MUST BE ADDED TO DUCT SIZE. THIS FINAL DIMENSION EXCLUDES DUCT REINFORCEMENT ANGLES OR CLIPS. (EXAMPLES: 24"x10" NET=26"x12" GROSS: IF 1" THICK INSULATION OR LINING).
- PROVIDE AND INSTALL TURNING VANES IN RIGHT ANGLE ELBOWS AND DEFLECTORS IN RECTANGLE BRANCHES.
- ROOM THERMOSTATS SHALL BE MOUNTED AT 4'-0" ABOVE FINISHED FLOOR.
- ALL DUCTWORK SHOWN IS DIAGRAMATIC. VERIFY CLEARANCES WITH TRUSSES AND OTHER STRUCTURAL ITEMS: COORDINATE LOCATION OF AIR DEVICES WITH OTHER CRAFTS INVOLVED.
- 14. ALL DUCT INSULATION AND DUCT LINING SHALL NOT EXCEED FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E-84 AND UL 723. ALL FLEXIBLE DUCTS SHALL NOT EXCEED DUCTS FLAME SPREAD OF 25 AND SMOKE DEVELOPED OF 50 AT SAME TESTS AS INDICATED ABOVE.
- ALL DUCTWORK TAKE-OFFS TO EACH DIFFUSER SHALL HAVE VOLUME DAMPERS UP STREAM OF DIFFUSERS (WHETHER SHOWN ON DRAWINGS OR NOT.)
- ROUND GALVANIZED STEEL DUCTWORK SHALL BE FABRICATED USING 24 GAUGE
- HVAC EQUIPMENT SHALL BE LABELED TO THE SPACE SERVED AS REQUIRED BY SECTION 504 OF THE UMC.
- 18. ALL DUCTWORK WALL PENETRATIONS BY GENERAL CONTRACTOR.

SEISMIC BRACING NOTES

ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

- A. 1. FIXED EQUIPMENT ON GRADE 20% OF OPERATING WEIGHT.
- 2. FIXED EQUIPMENT ON STRUCTURE 30% OF OPERATING WEIGHT. 3. EMERGENCY POWER EQUIPMENT ON GRADE 33% OF OPERATING WEIGHT.
- 4. EMERGENCY POWER EQUIPMENT ON STRUCTURE, 50% OF OPERATING WEIGHT.
- B. FOR EQUIPMENT WEIGHING LESS THAN 400 POUNDS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGINEER AND THE FIELD REPRESENTATIVE OF STATE ARCHITECT.
- C. FOR EQUIPMENT WEIGHING 400 POUNDS OR MORE AND ALL SUSPENDED EQUIPMENT, SEE RESPECTIVE DETAILS.
- D. FOR FLEXIBLE MOUNTED EQUIPMENT USE FOUR THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE-USE ONE-THIRD OF THE VALUE OF HORIZONTAL FORCE.

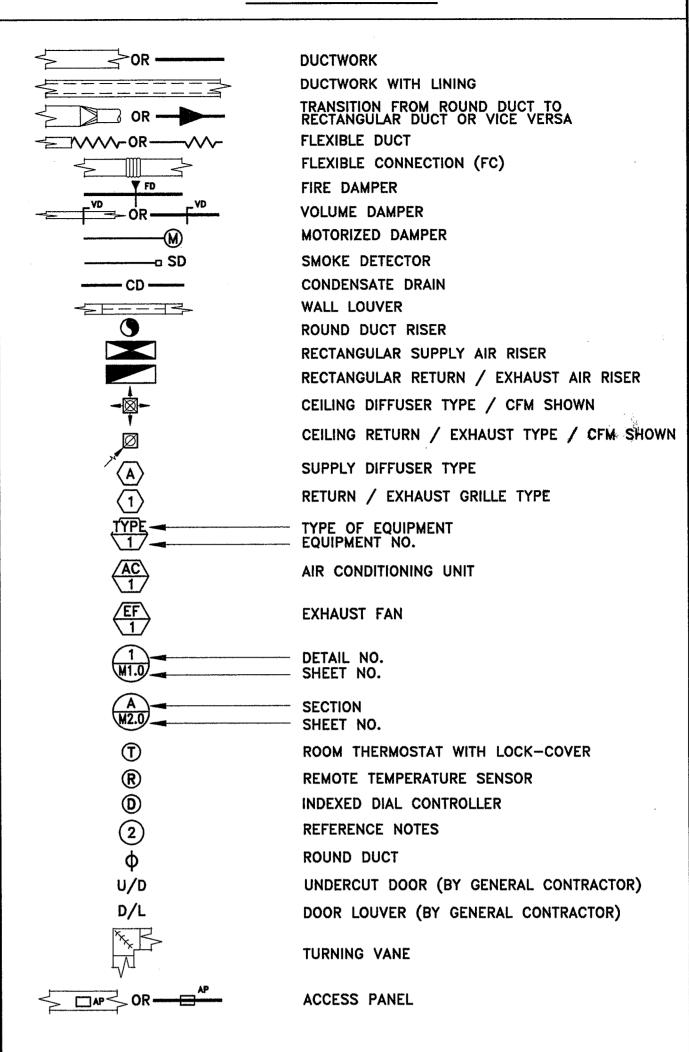
DUCT INSULATION SCHEDULE INSTULATION CHARACTERISTICS TITLE-24 DUCT LOCATION COMPLIANCE PRODUCT k R MIN MIN. THICKNESS DENSITY DUCTWORK ON ROOF **GLASS FIBER** 2.0 LBS./CU.FT. PART 6 SECTION 124 0.27 6.3 EXTERIOR OF BUILDING DUCT LINER **GLASS FIBER** 0.75 LBS./CU.FT. PART 6 SECTION 124 DUCT WRAP 0.28 5.4 DUCTWORK WITHIN FOIL FACED THE CEILING SPACE/ MECHANICAL ROOM GLASS FIBER 1.5 LBS./CU.FT. PART 6 SECTION 124 0.28 3.6 DUCT LINER

THERMAL PERFORMANCE SHALL BE TESTED IN ACCORDANCE

WITH ASTM C-177 @ 75 MEAN TEMPERATURE.

| | EXHAUST FAN SCHEDULE | | | | | | | | | | | |
|--------------------------------|-----------------------------|---------------|---------|----------------------|-----|-------|--------|-------|-------|------|----------------|--------|
| | | MANUFA | CTURER | 050/405 | CAP | ACITY | DDIVE | | MOTOR | | CONTROL | WEIGHT |
| ITEM | DESCRIPTION | MAKE | MODEL | SERVICE | CFM | S.P. | DRIVE | VOUTS | PHASE | HP | CONTROL | (LBS.) |
| $\langle \frac{EF}{1} \rangle$ | CENTRIFUGAL ROOF EXHAUST | LOREN COOK | 120C2B | LOCKER/ RESTROOMS | 710 | 1/2 | BELT | 115 | 1 | 1/6 | SEE DIAGRAM | 75 |
| (EF) | CENTRIFUGAL ROOF UPBLAST | LOREN COOK | 90R15DL | BATTERY RM 128 | 340 | 1/4 | DIRECT | 115 | 1 | 1/8 | SEE DIAGRAM | 50 |
| (EF) | CENTRIFUGAL ROOF UPBLAST | LOREN COOK | 90R10DH | HOOD IN RM 117 | 200 | 1/4 | DIRECT | 115 | 1 | 1/25 | SEE DIAGRAM | 50 |
| | | | | | | | | | | | 1 | |

LEGEND



ABBREVIATIONS

LAT LEAVING AIR TEMPERATURE AFF ABOVE FINISH FLOOR AH AIR HANDLER LWT LEAVING WATER TEMPERATURE ARCH ARCHITECTURE LL LIQUID LINE AMP AMPERE LBS POUNDS BTU BRITISH THERMAL UNIT LIN LINEAR BFP BACKFLOW PREVENTER LD LINEAR DIFFUSER CD CEILING DIFFUSER LF LINEAR FEET LR LIQUID REFRIGERATION CR CEILING RETURN CH CHILLER MAX MAXIMUM COP COEFFICIENT OF PERFOMANCE MBH THOUSAND OF BTU/HR MCA MINIMUM CIRCUIT AMPACITY CONT CONTINUATION CFM CUBIC FEET PER MINUTE MECH MECHANICAL *F DEGREE FAHRENHEIT MIN MINIMUM NC NORMALLY CLOSE DPS DIFFERENTIAL PRESSURE SWITCH NO NORMALLY OPEN DWG DRAWING EA EACH OA OUTSIDE AIR PH PHASE EHA EXHAUST AIR ELEC ELECTRICAL PLUMB PLUMBING EAT ENTERING AIR TEMPERATURE PD PRESSURE DROP EWT ENTERING WATER TEMPERATURE EER ENERGY EFFICIENCY RATIO PUMP EF EXHAUST FAN RA RETURN AIR RG RETURN GRILLE EG EXHAUST GRILLE ER EXTERNAL STATIC PRESSURE RR RETURN REGISTER RPM REVOLUTION PER MINUTE ESP EXHAUST REGISTER STD STANDARD EXIST EXISTING SOV SHUT-OFF VALVE ET EXPANSION TANK SP STATIC PRESSURE FT FEET FLA FULL LOADS AMPS SA SUPPLY AIR SR SUCTION REFRIGERATION FPM FEET PER MINUTE SUCTION LINE FC FLEXIBLE CONNECTOR GPM GALLONS PER MINUTE TEMP TEMPERATURE TP TOTAL PRESSURE HB HEATING BOILER HP HORSE POWER TG TRANSFER GRILLE TYP TYPICAL HR HOUR HZ HERZ (FREQUENCY) V VOLT

IN INCHES

PSIG POUNDS PER SQUARE INCH GAGE

Exp. Date: **9-30-96**

W.G. WATER GAGE

MATHAUDHU ENGINEERING, INC. CONSULTING MECHANICAL ENGINEERS 3903 BROCKTON AVENUE, SUITE 5, RIVERSIDE, CA 92501-3212 8-1776 FAX (909) 686-5061

REVISIONS

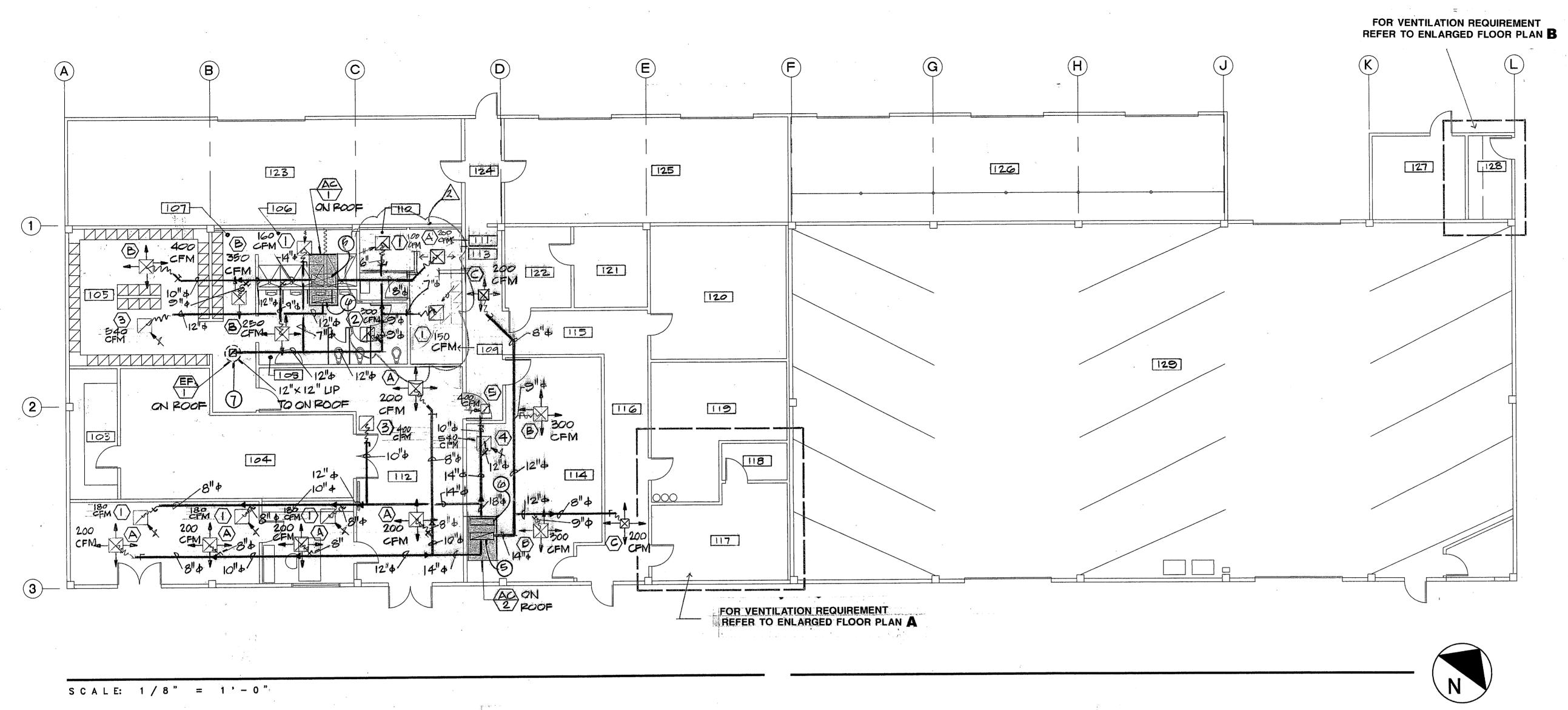
Combs Mar Architects Inc 3393 Fourteenth Street Riverside, CA 92501 (909) 686 - 3520

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D.L.B. MAY/~ /1995 JOB NO. 770 SHEET

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BATTERY ROOM

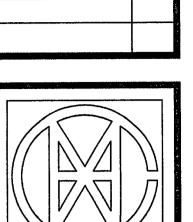
SCALE: 1/4" = 1'-0"

128

REFERENCE NOTES

- RUN DUCT TIGHT TO BOTTOM OF ROOF JOISTS.
- 10" X 10" EXHAUST AIR DUCT UP THRU ROOF. CONNECT TO EXHAUST FAN EF-2 WITH FLEXIBLE CONNECTOR.
- 6" ϕ DUCT DN TO \pm 6" APPROXIMATE ABOVE FINISH FLOOR. THE BOTTOM OF DUCT SHALL BE OPEN WITH 1/4" WIRE MESH FOR LOW AIR EXHAUST.
- GRAVITY AIR INTAKE -AIR INTAKE QUANTITY = 340 CFM UNIT SIZE = $12" \times 12"$ UNIT SHALL BE LOREN COOK TYPE VI - INTAKE UNIT, FURNISHED COMPLETE WITH BIRD SCREEN AND ANTI-CONDENSATE COATING.
- 5 34" X 16" LINED SUPPLY AIR PLENUM UP. PROVIDE TRANSITION AS REQUIRED AND CONNECT TO A.C. UNIT WITH FLEXIBLE CONNECTOR.
- 40" X 12" LINED RETURN AIR PLENUM UP. PROVIDE TRANSITION AS REQUIRED AND CONNECT TO A.C. UNIT WITH FLEXIBLE CONNECTOR.
- 12" X 12" EXHAUST AIR DUCT UP AND CONNECT TO EXHAUST FAN ON ROOF WITH FLEXIBLE CONNECTOR. PROVIDE TRANSITIONS AS REQUIRED.
- 8 8" EXHAUST AIR DUCT UP AND CONNECT TO EXHAUST FAN ON ROOF WITH FLEXIBLE CONNECTOR. PROVIDE TRANSITION AS REQUIRED.

REVISIONS BY 2 9-5-95



Combs Mari

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Architects Inc.

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3903 BROCKTON AVENUE, SUITE 5,
RIVERSIDE, CA 92501-3212

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DRAWN BY /D.L.B. MAY/-/ 1995 JOB NO. 770

9-111 15 of 24 SHEETS

HOOD IN ROOM

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

118 119 81 & DUCT UP_ 10" × 10" UP (ON ROOF) 5/8 EXPANSION ANOHOR @ EX. END AND @ IZII O.C. EXPOSED-L'X 1"X 1/4" ________CHANEL WELDED DUCT WORK TO HOOD CHANEL THPU ROOF WELDED TO EF. FE B UP to HOOD TO BELOW TOP OF 200F COUNTER HOOD ABOVE BATTERIES VERIFY LOCATION WITH APCHITECT PRIOR TO INSTALLATION. (SEE DETAIL) **SECTION A-A** HOOD SHALL DE CONSTRUCTED OF 20GA. MIN. GALVANIZED STEEL.

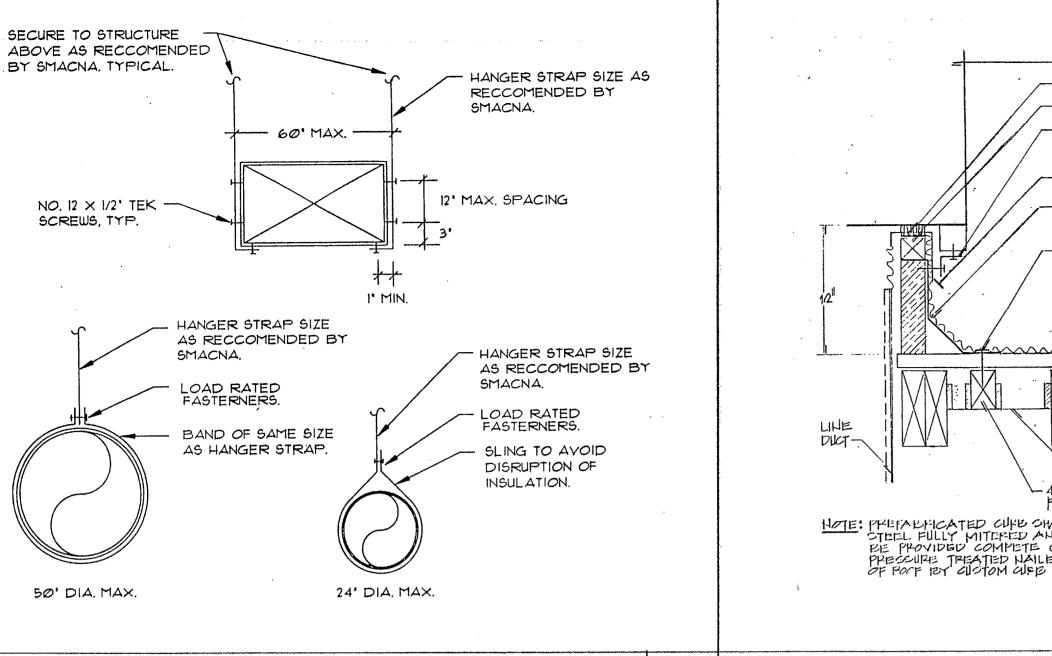
RECEIVING/STORAGE 101 102 OFFICE STORAGE 103 104 TOOL STORAGE 105 MEN'S LOCKER ROOM 106 MEN'S SHOWER HALL 107 MEN'S RESTROOM WOMEN'S RESTROOM 110 WOMEN'S SHOWER 111 VESTIBULE HALL 112 113 SURVEY FIELD OFFICE 114 HALL 115 HALL 116 117 NPDES STORAGE 118 119 HYDROLOGY CONSTRUCTION LABORATORY 121 CURING ROOM 122 SHAKER ROOM OUTSIDE STORAGE 123 124 HALL ENCLOSE FENCE PARTS HERBICIDE STORAGE 126 FLAMMABLE TOOL STORAGE 128 BATTERY ROOM

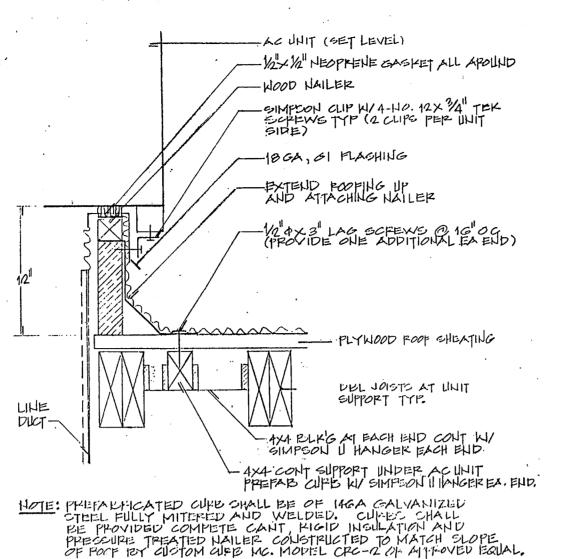
VEHICLE PARKING

129.

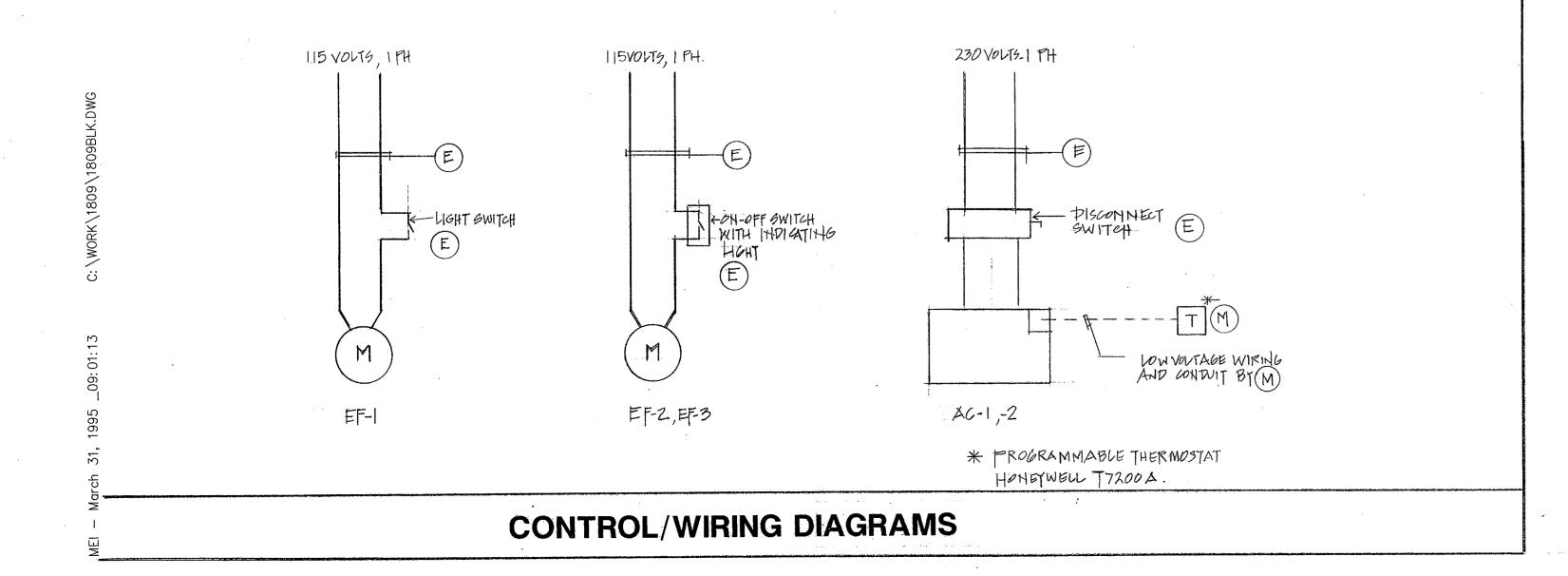
ROOM NAME

ROOM NO.





CURB INSTALLATION DUCT SUPPORT PLYWOOD SHTG 4 DIRECTIONS MECH, EQUIP. MAX. OPER.WT - PLYWOOD SHTG 2HT6 -2"BAFTER 1/2 & DOLT W/ CINCH TIGHT PMAX=160 LBS A SECTION 1/2" + HANGER ROP THREADED AT EA END PROVIDE OUT HIT BRACING SHALL BE PROVIDED PER "SMACHA:
GUIDELINES FOR SEISMIC RESTRAINTS OF
MIECHANICAL SYSTEMS AND PLUMBING
PIPING SYSTEMS". **EQUIPMENT HANGING SUPPORT**



| PROJECT NAME RIVERS | DE COUNTY FLOOD HOLLOE REMC | CONTROLAND WAT | ER LONSERVATIO | 1 20/95 DATE 4/20/95 |
|--|---|---|--|--|
| PROJECT ADDRESS RIVE | RSIDE / CA | | | D. A.S. of Downship |
| PRINCIPAL DESIGNER - MECH | IANICAL SUKHDEV A | MATHAUDHU | TELEPHONE (909) 68617 | Pulking Permit # |
| DOCUMENTATION AUTHOR | BUN T DO | | TELEPHONE (409) 686 17 | Checked by/Date |
| OFVEDAL WEODMAN | | | | |
| GENERAL INFORMATION DATE OF PLANS | | DITIONED FLOOR AREA | | |
| BUILDING TYPE | NONRESIDENTIAL | HIGH RISE | RESIDENTIAL H | OTEL/MOTEL GUEST ROOM |
| PHASE OF CONSTRUCTION | NEW CONSTRUCT | ON ADDITION | | LTERATION |
| METHOD OF MECHANICAL COMPLIANCE | PRESCRIPTIVE | PERFORM | NCE | |
| | | REVIOUS ENVELOPE PERMI | T ENVELOP | E COMPLIANCE ATTACHED |
| STATEMENT OF COMP This Certificate of Compli Parts 1 and 6 of the Calif The Principal Mechanical documents is consistent calculations submitted wi requirements contained in | LIANCE ance lists the building feomia Code of Regulation Designer hereby certification with the other compliance the this permit application | ons. This certificate appli es that the proposed bui ce forms and worksheets n. The proposed building | es only to building med ding design represente s, with the specifications has been designed to | hanical requirements. d in this set of constructio s, and with any other meet the mechanical |
| STATEMENT OF COMP. This Certificate of Compli Parts 1 and 6 of the Calif The Principal Mechanical documents is consistent calculations submitted wi | LIANCE ance lists the building feomia Code of Regulation Designer hereby certification with the other compliance the this permit application | ons. This certificate appli ies that the proposed bui ce forms and worksheets n. The proposed building | es only to building med ding design represente s, with the specifications has been designed to | hanical requirements. d in this set of constructio s, and with any other meet the mechanical |
| STATEMENT OF COMP This Certificate of Compli Parts 1 and 6 of the Calif The Principal Mechanical documents is consistent calculations submitted wi requirements contained in Please check one: I hereby affirm that document as the per I affirm that I am eli the Business and P | ance lists the building feromia. Code of Regulation Designer hereby certification with the other compliant the this permit application assections 110 through a lam eligible under the person responsible for its gible under the exemption of the sections Code to significant and the permit in the sections are sections. | es that the proposed builder forms and worksheets in. The proposed building 115, 120 through 124, 14 provisions of Division 3 of preparation; and that I also to Division 3 of the B | es only to building medical ding design represented by with the specifications has been designed to though 142, 144 and of the Business and Profession as civil engineer, medical profession responsible for its | hanical requirements. d in this set of constructio s, and with any other meet the mechanical |
| STATEMENT OF COMP This Certificate of Compli Parts 1 and 6 of the Calif The Principal Mechanical documents is consistent calculations submitted wi requirements contained in Please check one: I hereby affirm that document as the per I affirm that I am eli the Business and P licensed contractor I affirm that I am eli of the | ance lists the building formal Code of Regulation Designer hereby certification that the other compliance that this permit application is sections 110 through a sections 110 through a section responsible for its gible under the exemption preparing documents for the gible under the exemption of | es that the proposed building the forms and worksheets in. The proposed building 115, 120 through 124, 14 provisions of Division 3 of preparation; and that I also this document as the provision to Division 3 of the Bor work that I have contrained to Division 3 of the Bor work that I have contrained to Division 3 of the Bor to Division 4 of the Bor to Division 4 of the Bor to Division 5 of the | es only to building medical ding design representes, with the specifications has been designed to a 40 through 142, 144 and of the Business and Profession as civil engineer, medical displayers and Profession responsible for its acted to perform. | d in this set of constructions, and with any other meet the mechanical did 145. fessions Code to sign this thanical engineer, or archives preparation; and that I are second to second the second second that I are second second to second the second |
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| STATEMENT OF COMP This Certificate of Compli Parts 1 and 6 of the Calif The Principal Mechanical documents is consistent calculations submitted wi requirements contained in Please check one: I hereby affirm that document as the per I affirm that I am eli the Business and P licensed contractor I affirm that I am eli of the | ance lists the building feomia. Code of Regulation Designer hereby certification with the other compliance that this permit application is sections 110 through a sections 110 through a sections code to signification of the exemption of the following reason: SIGNER - NAME SIGNER - NAME | es that the proposed building the forms and worksheets in. The proposed building 115, 120 through 124, 14 provisions of Division 3 of preparation; and that I also this document as the provision to Division 3 of the Bor work that I have contrained to Division 3 of the Bor work that I have contrained to Division 3 of the Bor to Division 4 of the Bor to Division 4 of the Bor to Division 5 of the | ding design representes, with the specifications has been designed to the through 142, 144 and the Business and Profession acted to perform. Usiness and Profession designess and Profession responsible for its acted to perform. | d in this set of constructions, and with any other meet the mechanical did 145. fessions Code to sign this thanical engineer, or archives preparation; and that I are second to second the second second that I are second second to second the second |

Manual published by the California Energy Commission

MECH-3 and MECH-4: Required for all submittals.

MECH-1: Required on plans for all submittals. Parts 2 & 3 may be incorporated in schedules on plans.

MECH-2: Required for all submittals; choose appropriate version depending on method of mechanical compliance.

MANDATORY MEASURES

- ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY STANDARDS MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED TO THE COMMISSION, AS SPECIFIED IN THOSE REGULATIONS, THAT THE APPLIANCE COMPLIES WITH THE APPLICABLE STANDARD FOR THAT APPLIANCE. INCLUDED ARE ROOM AIR CONDITIONERS, CENTRAL AIR CONDITIONING HEAT PUMPS (REGARDLESS OF CAPACITY, EXCEPT THAT REQUIREMENTS FOR CENTRAL AIR CONDITIONING HEAT PUMPS WITH COOLING CAPACITY OF 135,000 BTU/HR OR MORE APPLY TO HEATING PERFORMANCE BUT NOT COOLING PERFORMANCE), OTHER CENTRAL AIR CONDITIONERS WITH A COOLING CAPACITY LESS THAN 135,000 BTU/HR, FAN TYPE CENTRAL FURNACES WITH INPUT RATE LESS THAN 400,000 BTU/HR, BOILERS WALL FURNACES, FLOOR FURNACES, ROOM HEATERS, UNIT HEATERS, AND DUCT FURNACES SHALL HAVE BEEN CERTIFIED TO THE CALIFORNIA ENERGY COMMISSION BY ITS MANUFACTURER TO COMPLY WITH THE APPLIANCE EFFICIENCY STANDARDS.
- THE FOLLOWING SPACE CONDITIONING EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN 112 OF THE ENERGY EFFICIENCY STANDARDS:

 ALL AIR CONDITIONERS, HEAT PUMPS—AND CONDENSING UNITS >135,000 BTU/HR; ALL WATER CHILLERS; ALL GAS-FIRED BOILERS

 >300,000 BTU/HR; ALL OIL-FIRED BOILERS >225,000 BTU/HR; AND ALL WARM AIR FURNACES AND COMBINATION WARM AIR

 FURNACES/AIR-CONDITIONING UNITS >225,000 BTU/HR. FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.
- PIPING, EXCEPT THOSE CONVEYING FLUIDS AT TEMPERATURE BETWEEN 60 DEGREE F AND 105 DEGREE F, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS #123.
- AIR HANDLING DUCT SYSTEMS SHALL BE CONSTRUCTED, INSTALLED, SEALED, AND INSULATED AS PROVIDED IN CHAPTER 10 OF THE UNIFORM MECHANICAL CODE.

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- EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF-HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS; INCORPORATE AN AUTOMATIC HOLIDAY "SHUT-OFF" FEATURE THAT TURNS OFF ALL LOADS FOR AT LEAST 24 HOURS, THEN RESUMES THE NORMALLY SCHEDULED OPERATION; AND HAS PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS
- EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE
- ☐ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.
- EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING THERMOSTAT SETPOINT.
- ☐ EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK COOLING THERMOSTAT SETPOINT.
- EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE PROVIDED WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS, THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.
- EACH SPACE CONDITIONING ZONE SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE WITHIN THE ZONE. WHERE USED TO CONTROL HEATING, THE CONTROL SHALL BE ADJUSTABLE DOWN TO 55 DEGREE F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85 DEGREE F OR HIGHER. WHERE USED TO CONTROL BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEAD BAND OF AT LEAST 5 DEGREE F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR REDUCED TO A MINIMUM.
- ☐ THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREE F.
- THERMOSTATS SHALL HAVE ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
- HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE. ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION IS PERMITTED DURING TRANSIENT PERICOS, SUCH AS START-UPS AND FOLLOWING ROOM THERMOSTAT SETPOINT ADVANCE, WHEN CONTROLS ARE PROVIDED WHICH USE PREFERENTIAL RATE CONTROL, INTELLIGENT RECOVERY, STAGING, RAMPING, OR SIMILAR CONTROL MECHANISMS DESIGNED TO PRECLUDE THE UNNECESSARY OPERATION OF SUPPLEMENTARY HEATING DURING THE RECOVERY PERIOD. SUPPLEMENTARY HEATER OPERATION IS ALSO PERMITTED DURING DEFROST.

VENTILATION

- CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS
- GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
- ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
- AIR BALANCING: ALL SPACE CONDITIONING AND VENTILATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SPECIFIED IN THESE PLANS, IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1986).
- OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR.

SERVICE WATER HEATING SYSTEMS

- THE FOLLOWING SERVICE WATER HEATING SYSTEMS AND EQUIPMENT MAY BE INSTALLED ONLY IF THE MANUFACTURER HAS CERTIFIED THAT THE EQUIPMENT MEETS OR EXCEEDS ALL APPLICABLE EFFICIENCY REQUIREMENTS LISTED IN #113 OF THE ENERGY EFFICIENCY STANDARDS: OIL-FIRED STORAGE TYPES >105,000 BTU/HR; OIL-FIRED NON-STORAGE TYPES >210,000 BTU/HR; GAS-FIRED NON-STORAGE TYPES >200,000 BTU/HR
- UN FIRED SERVICE WATER HEATER STORAGE TANKS AND BACKUP TANKS FOR SOLAR WATER HEATING SYSTEMS SHALL HAVE EITHER: EXTERNAL INSULATION WITH AN INSTALLED R-VALUE OF AT LEAST R-12; INTERNAL AND EXTERNAL INSULATION WITH A COMBINED R-VALUE OF AT LEAST R-16; OR SUFFICIENT INSULATION SO THAT THE HEAT LOSS OF THE TANK SURFACE BASED ON AN 80 DEGREE F WATER-AIR TEMPERATURE DIFFERENCE SHALL BE LESS THAN 6.5 BTU/HR/SF.
- IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.
- LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH THE FOLLOWING:
- 1. OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.
- 2. FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
- 3. PROXIMITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF
- 4. SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT MATER TO A MAXIMUM OF 2.5 GALLONS P
- MINUTE, AND 0.25 GALLONS/CYCLE (CIRCULATING SYSTEM).
- 5. SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF WATER

 MINUTE, AND 0.50 GALLONS/CYCLE (NON-CIRCULATING SYSTEM).
- SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF MINUTE, AND 0.75 GALLONS/CYCLE (FOOT SWITCHES AND PROXIMITY SENSE)
- Exp. Bdde: 9-30-96

 LOGE NOT MATER TO MAX MUM OF 2.5 GALLONS PER
 ENSER FOR COVENING OF CALIFORNIA

MUM OF 2.5 GALLONS PER

7. LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110 DEGREE F.

MATHAUDHU ENGINEERING, INC.

CONSULTING MECHANICAL ENGINEERS

3903 BROCKTON AVENUE, SUITE 5,
RIVERSIDE, CA 92501—3212

(909) 686—1776 FAX (909) 686—5061

DATE
MAY 1995
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| | EQUIPMENT SCHEDULE | | | | | | | | | | |
|----------|------------------------------|-------------------------------|------------------|-----------------------|-------|----------|-------|--------------|------------------|--|--|
| ITEM | DESCRIPTION | LOCATION | MANUF | ACTURER | | CAPACITY | | GAS (CFH) | OPERATING WEIGHT | | |
| IIEM | DESCRIPTION | LOCATION | MAKE | MODEL | WATTS | VOLTS | PHASE | (CFH) | (LBS.) | | |
| (SE) | SEWAGE EJECTOR (DUPLEX) | REAR OF BLDG SEE SITE PLAN | WEIL MFG. CO. | 2,500 3" DISCHARGE | | | | N/A | | | |
| SEC 1 | SEWAGE EJECTOR CONTROLLER | J, K, AND L | WEIL MFG. CO. | MODEL NO. 1800 | | | | N/A | | | |
| WH 1 | GAS FIRED WATER HEATER | | LOCHINVAR | CNR250-100-DF9 | N/A | N/A | N/A | 250 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

GENERAL NOTES

- . INSTALLATION OF ALL PLUMBING SHALL COMPLY WITH TITLE 24, C.C.R., UPC, UBC AND NFPA 1991 CODES AND REGULATIONS OF HEALTH DEPARTMENT, FIRE DEPARTMENT AND ALL OTHER GOVERNING AGENCIES HAVING JURISDICTION.
- 2. BEFORE SUBMITTING BID, CONTRACTOR SHALL FAMILIARIZE WITH EXISTING UTILITIES, THEIR EXACT LOCATIONS AND CHARACTERISTICS, CHARACTERISTICS SHOWN ON DRAWING ARE APPROXIMATE.
- 3. BEFORE COMMENCEMENT OF WORK, CONTRACTOR SHALL VERIFY EXACT LOCATIONS, ELEVATIONS AND CHARACTERISTICS OF UTILITIES AND PIPING AND SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- INSTALL ALL PLUMBING TO AVOID INTERFERENCE WITH OTHER UTILITIES, ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. COORDINATE WORK WITH OTHER TRADES.
- EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES SHALL BE OBTAINED FROM ARCHITECTURAL DRAWINGS. FIXTURES INDICATED AS REQUIRED FOR HANDICAPPED USE SHALL BE INSTALLED TO CONFORM TO STATE HANDICAP REQUIREMENTS.
- VENT THRU ROOF SHALL BE INSTALLED AT LEAST 10'-0" AWAY FROM ANY FRESH AIR INTAKE OR TERMINATED 3'-0" ABOVE ANY FRESH AIR INTAKE AND COORDINATE WITH ARCHITECTURAL DRAWINGS.
- 7. ALL WATER OUTLETS FOR FIXTURES AND EQUIPMENT SHALL BE PROVIDED WITH A LINE SIZE SHUT-OFF VALVE OR STOP, TYPE AS SPECIFIED.
- . THE CONTRACTOR SHALL RECORD ON 'RECORD' DRAWINGS ALL SIZES, LOCATIONS, MATERIALS, DEPTH OF BURIED PIPING, PLUGGED TEES, FUTURE CONNECTIONS, AND ALL CHANGES IN PIPING FROM THAT SHOWN ON DRAWINGS AND SUBMIT SUCH SET TO ARCHITECT AT COMPLETION OF WORK.
- 9. MINIMUM COVER OVER PIPE SHALL BE 1'-6" UNDER BUILDING SLAB AND 3'-0" AT GRADE, UNLESS NOTED OTHERWISE.
- 10. ALL PIPING SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS ONLY AND NOT FROM ROOFING (DECKING OR BUILT-UP).
- 11. ALL EXISTING FINISHED GRADES, PAVEMENTS, AND CONCRETE SLABS ENCOUNTERED DURING TRENCHING SHALL BE SAW CUT PRECISELY AND PATCHED TO MATCH EXISTING.
- 12. UNDERGROUND STEEL PIPING SHALL BE GIVEN HIGH QUALITY PROTECTIVE COATING SUCH AS 40 MIL EXTRUDED POLYETHYLENE, 20 MIL PLASTIC TAPE OVER PRIMER PER AWWA STANDARD C209 OR HOT APPLIED COAL TAR ENAMEL OR TAPE PER AWWA C203.
- UNDERGROUND STEEL PIPING SHALL BE ELECTRICALLY INSULATED FROM ABOVE GROUND STEEL.

 DISSIMILAR METALS AND CEMENT-MORTAR OR CONCRETE COATED STEEL OR IRON, BOND

 UNDERGROUND STEEL PIPING FOR ELECTRICAL CONTINUITY IF RUBBER GASKETED, MECHANICAL

 OR OTHER NON-CONDUCTIVE TYPE JOINTS ARE USED. PROVIDE CATHODIC PROTECTION.
- 4. UNDERGROUND WATER SERVICE CAST OR DUCTILE IRON PIPE, VALVES AND FITTINGS SHALL BE ENCASED IN A 8 MIL POLYETHYLENE TUBE OR WRAPPED PER AWWA STANDARD C105 OR ANSI 21.5 ISOLATE CAST OR DUCTILE IRON PIPING FROM OTHER NON-CATHODICALLY PROTECTED PIPING, IF SOIL IS CORROSIVE TO PIPING.
- 15. WHERE METALLIC PIPING PENETRATES CONCRETE STRUCTURE, SUCH AS FLOOR OR WALL, RUBBER SEALS, OR OTHER DIELECTRIC MATERIAL SHALL BE USED TO PREVENT PIPE CONTACT WITH CONCRETE AND REINFORCING STEEL.
- 16. ON ANY TYPE OF UNDERGROUND PIPING, BARE STEEL APPURTENANCES SUCH AS BOLTS, JOINTS, FLANGES FITTINGS, HARNESS, OR FLEXIBLE COUPLINGS SHOULD BE COATED WITH A COAL TAR OR RUBBER BASED PLASTIC AFTER ASSEMBLY.
- 17. ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE OWNER OR OTHERS AND THOSE SHOWN ON THE RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE CONTRACTOR BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, AND TO HOLD UNDERSIGNED HARMLESS FOR ANY DAMAGES RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED. NOT INDICATED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURE TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED.
- 18. ALL UNDERGROUND PIPING ADJACENT TO OR PENETRATING STRUCTURAL FOUNDATIONS SHALL COMPLY TO STRUCTURAL DETAIL(S).
- 19. ANY SINKS WITH THREADED FAUCETS SHALL BE CONNECTED WITH APPROVED NON-REMOVEABLE VACUUM BREAKER.
- 20. ALL FAUCETS FOR THE HANDICAPPED SHALL REQUIRE NOT MORE THAN 5 PSI TO OPERATE.
- 21. SELF-CLOSING FAUCETS SHALL REMAIN OPEN FOR A MINIMUM 10 SECONDS.
- 22. FLUSH VALVE HANDLES FOR THE PHYSICALLY HANDICAPPED SHALL BE FACING THE WIDE SIDE OF THE TOILET STALL.
- 23. IN THE KITCHEN AREA, ALL EXPOSED WATER AND WASTE PIPING, INCLUDING TRAPS THAT ARE NOT NORMALLY CHROME PLATED, SHALL BE FINISHED WITH SPRAYED ON ALUMINIUM PAINT.
- 24. PENETRATIONS OF RATED FIRE ASSEMBLIES SHALL BE FIRE STOPPED APPROVED MATERIAL AS PRESCRIBED IN THE STATE FIRE MARSHAL STANDARD 43-1.
- 25.. SERVICE WATER HEATING SYSTEM
 - A) LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH:
 OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER MINUTE.
 - B) FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
 - C) SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.25 GALLON/CYCLE (NON-CIRCULATING SYSTEM).
 - D) SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLON/CYCLE (NON-CIRCULATING SYSTEM).
 - E) LAVATORIES IN RESTROOM OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERTURE 110 F.

LEGEND

| SD SD STORM DRAIN OD OD OVERFLOW DRAIN CD CD CONDENSATE DRAIN DD D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW ICW INDUSTRIAL COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G NATURAL FUEL GAS (LOW PRESSURE) MG MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF FLOW DIRECTION OF FITCH SOV SHUT OFF VALVE CHV CHECK VALVE PTRV PRESSURE REDUCING VALVE FOR STRAINER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PR PRESSURE GAUGE WITH COCK TP TRAP PRIMER O RD ROOF DRAIN FD FLOOR DRAIN FD FLOOR DRAIN FD FLOOR DRAIN FT FLOOR SINK ACCESS PANEL O YCO YARD CLEANOUT YCO YARD CLEANOUT TYO WALL CLEANOUT OU PUP D DOWN! | | | |
|--|--|------|---|
| GRADE OR FLOOR S,W SANITARY SOIL OR WASTE PIPING ABOVE FLOOR V SANITARY VENT SD SD SD STORM DRAIN OD OD OD OVERFLOW DRAIN CD CD CONDENSATE DRAIN DD D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW ICW INDUSTRIAL COLD WATER PIPING HW DOMESTIC COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G NATURAL FUEL GAS (LOW PRESSURE) DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRY PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION G PRESSURE GAUGE WITH COCK TH THARP PRIMER O HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PRO PRESSURE GAUGE WITH COCK TP TRAP PRIMER AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FD FLOOR DRAIN FF FLOOR SINK ACCESS PANEL O FCO FLOOR CLEANOUT YCO YARD CLEANOUT YCO YARD CLEANOUT O VALL CLEANOUT IN TRAFFIC BOX WALL CLEANOUT PLUG UP UP D D DOWN | E | E | EXISTING PIPING SERVICE AS INDICATED |
| SD SD STORM DRAIN OD OD OVERFLOW DRAIN CD CD CONDENSATE DRAIN DD D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW ICW INDUSTRIAL COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G NATURAL FUEL GAS (LOW PRESSURE) MG MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF FLOW DIRECTION OF FITCH SOV SHUT OFF VALVE CHV CHECK VALVE PTRV PRESSURE REDUCING VALVE FOR STRAINER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PR PRESSURE GAUGE WITH COCK TP TRAP PRIMER O RD ROOF DRAIN FD FLOOR DRAIN FD FLOOR DRAIN FD FLOOR DRAIN FT FLOOR SINK ACCESS PANEL O YCO YARD CLEANOUT YCO YARD CLEANOUT TYO WALL CLEANOUT OU PUP D DOWN! | | S,W | |
| SD STORM DRAIN OD OVERFLOW DRAIN CD CD CD CONDENSATE DRAIN ID D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW ICW INDUSTRIAL COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HW HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE FRY PRESSURE REDUCING VALVE GLY GLOBE OR BALANCING VALVE FIRST STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER OR PRO PRESSURE GAUGE WITH COCK TP TRAP PRIMER AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FO FLOOR SINK AP ACCESS PANEL FOO FLOOR CLEANOUT YCO YARD CLEANOUT ON DOWN | | S,W | SANITARY SOIL OR WASTE PIPING ABOVE FLOOR |
| OD OVERFLOW DRAIN CD CD CONDENSATE DRAIN D D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW ICW INDUSTRIAL COLD WATER CW DOMESTIC COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE STR STRAINER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER O RD ROOF DRAIN Ø AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FO FLOOR SINK ACCESS PANEL O YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP D DAMED D DOWN! | | ٧ | SANITARY VENT |
| CD CONDENSATE DRAIN D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW ICW INDUSTRIAL COLD WATER OMESTIC COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) DIRECTION OF FLOW DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE F GLV GLOBE OR BALANCING VALVE PTRV PRESSURE REDUCING VALVE STR STRAINER UNION HB HOSE BIBB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN F F FLOOR SINK F F FLOOR SINK F F FLOOR SINK G I WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN! | SD | SD | STORM DRAIN |
| D D INDIRECT OR RELIEF DRAIN W SITE WATER LINE ICW INDUSTRIAL COLD WATER D D D D D D D D D D D D D D D D D D D | OD | OD | OVERFLOW DRAIN |
| W SITE WATER LINE ICW INDUSTRIAL COLD WATER CW DOMESTIC COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) MG MG MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FF FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT TO CUEANOUT PLUG UP UP DN DOWN! | | CD | CONDENSATE DRAIN |
| ICW INDUSTRIAL COLD WATER CW DOMESTIC COLD WATER PIPING HW DOMESTIC HOT WATER PIPING HWR HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) MG MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FF FLOOR SINK FF FLOOR SINK FF FLOOR CLEANOUT YCO YARD CLEANOUT YCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN! | D | D | INDIRECT OR RELIEF DRAIN |
| | w | W | SITE WATER LINE |
| HWR HOT WATER PIPING HWR HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PTRV PRESSURE REDUCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FD FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | ICW | ICW | INDUSTRIAL COLD WATER |
| HWR HOT WATER RETURN G G G NATURAL FUEL GAS (LOW PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE STR STRAINER UNION HB HOSE BIBB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FF FLOOR SINK AD/DD AREA DRAIN/DECK DRAIN FO FLOOR SINK AD/DD AREA DRAIN/DECK DRAIN FO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT UP UP DN DOWN! | | CW | DOMESTIC COLD WATER PIPING |
| G G NATURAL FUEL GAS (LOW PRESSURE) MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER PD FLOOR DRAIN DO YARD CLEANOUT TO YARD CLEANOUT O VARD CLEANOUT CO CLEANOUT PLUG UP UP DO WANT DO W | | HW | DOMESTIC HOT WATER PIPING |
| MG MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN RD ROOF DRAIN FS FLOOR SINK FS FLOOR SINK FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT ON UP UP DN DOWN! POWN! PRESSURE PRUSE PRESSURE PRUSE PRESSURE PRUSE PRESSURE PRUSE PRESSURE PRESSURE PRUSE PRESSURE PRUSE PRESSURE PROUCH PRESSURE PRUSE PRESSURE PRUSE PRESSURE PRUSE PRESSURE PRESSURE PRUSE PRESSURE PRESSURE PRUSE PRU | | HWR | HOT WATER RETURN |
| MG MG NATURAL FUEL GAS (MEDIUM PRESSURE) DIRECTION OF FLOW DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN RD ROOF DRAIN FS FLOOR SINK AD/DD AREA DRAIN/DECK DRAIN FS FLOOR SINK FO FLOOR CLEANOUT YCO YARD CLEANOUT YCO YARD CLEANOUT UP UP DN DOWN | G | G | NATURAL FUEL GAS (LOW PRESSURE) |
| DIRECTION OF PITCH SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FFO FLOOR CLEANOUT YCO YARD CLEANOUT YCO YARD CLEANOUT OUP UP DN DOWN! | MG | MG | NATURAL FUEL GAS (MEDIUM PRESSURE) |
| SOV SHUT OFF VALVE CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FF FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT YCO YARD CLEANOUT YCO WALL CLEANOUT UP UP DN DOWN! | | | DIRECTION OF FLOW |
| CHV CHECK VALVE PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FS FLOOR SINK FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT UP UP DN DOWN | | | DIRECTION OF PITCH |
| PRV PRESSURE REDUCING VALVE GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN RD ROOF DRAIN FD FLOOR DRAIN FT FLOOR SINK FS FLOOR SINK FS FLOOR SINK FCO FLOOR CLEANOUT TYCO YARD CLEANOUT TYCO YARD CLEANOUT TO UP UP DN DOWN | | SOV | SHUT OFF VALVE |
| GLV GLOBE OR BALANCING VALVE PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FS FLOOR SINK FCO FLOOR CLEANOUT YCO YARD CLEANOUT YCO YARD CLEANOUT YCO WALL CLEANOUT OUP UP DN DOWN | _N_ | CHV | CHECK VALVE |
| PTRV PRESSURE AND TEMPERATURE RELIEF VALVE STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FF FLOOR SINK FF FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT YCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DNI DOWN! | → √ | PRV | PRESSURE REDUCING VALVE |
| STR STRAINER UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT YCO WALL CLEANOUT O UP UP DN DOWN | —————————————————————————————————————— | GLV | GLOBE OR BALANCING VALVE |
| UNION HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT YCO YARD CLEANOUT ON WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN! | ≵ — | PTRV | PRESSURE AND TEMPERATURE RELIEF VALVE |
| HB HOSE BIBB HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK PC FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | 1 | STR | STRAINER |
| HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DNI DOWN! | —————————————————————————————————————— | | UNION |
| HB HOSE BIBB IN RECESSED BOX TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | НВ | HOSE BIBB |
| TH THERMOMETER PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | | |
| PG PRESSURE GAUGE WITH COCK TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | | |
| TP TRAP PRIMER RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | <u> </u> | PG | PRESSURE GAUGE WITH COCK |
| RD ROOF DRAIN AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | | |
| AD/DD AREA DRAIN/DECK DRAIN FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | 0 | | |
| FD FLOOR DRAIN FS FLOOR SINK AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | | |
| AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | • | |
| AP ACCESS PANEL FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | Ĭ ⊠ | | |
| FCO FLOOR CLEANOUT YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP DN DOWN | | | |
| YCO YARD CLEANOUT IN TRAFFIC BOX WCO WALL CLEANOUT CO CLEANOUT PLUG UP UP | | | |
| —————————————————————————————————————— | | | |
| CO CLEANOUT PLUG UP UP DN DOWN | | | |
| UP UP | | | |
| DN DOWN | | | |
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Architects Inc.

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(909) 686-35

FLOOD CONTROL AN N DISTRICT

ABBREVIATIONS

| ABV | ABOVE | NC | NORMALLY CLOSED |
|-------|--|----------------------|---------------------------|
| AC | AIR CONDITIONING | PO | |
| AFF | ABOVE FINISHED FLOOR | RI | ROUGH-IN & CONNECT |
| BEL | BELOW | RPBP | |
| | CEILING | SHT | SHEET |
| CL | CAPPED LINE | TYP | |
| | CONNECTION | VTD | VENT THRU ROOF |
| CONT | CONTINUATION | VIK | VENT THRU RUUF |
| CONT | CONTINUATION | 0/0 | UNDER COUNTER WITH |
| CONIK | CONTRACTOR | W/ | WIIH |
| אַט | DOWN TO BELOW FLOOR DROP TO FIXTURE OR EQUIPMENT DRAWING | WHA | WATER HAMMER ARRESTER |
| DR | DROP TO FIXTURE OR EQUIPMENT | DS | DOWNSPOUT |
| DWG | DRAWING | GD | GUTTER DRAIN |
| EL | ELEVATION | GD EWC DF | ELECTRIC WATER COOLER |
| EQUIP | EQUIPMENT | DF | DRINKING FOUNTAIN |
| FFE | FINISHED FLOOR ELEVATION | CFH | CUBIC FEET PER HOUR |
| FIN | FINISH FIRE RATED PENETRATION | FT | FEET/FLUSH TANK |
| FRP | FIRE RATED PENETRATION | COL | COLÚMN |
| FLR | FLOOR | HTG | |
| CP | CDADE | MAY | |
| HDR | HEADER HEATING, VENTILATING, & AIR CONDITIONING INVERT ELEVATION | FIL | FIXTURE UNIT |
| HVAC | HEATING VENTUATING & AIR CONDITIONING | FU FV WC SD | FLUSH VALVE |
| 1 5 | INVEDT ELEVATION | WC | WATER CLOSET/WATER COLUMN |
| COVE | CLEAN OUT IN YARD BOX | WC | STORY DRAIN |
| | | 20 | STORM DRAIN |
| SE . | SEWAGE EJECTOR | PSI | POUNDS PER SQUARE INCH |
| | | | |

RIVERSIDE COUNTY FLC WATER CONSERVATION D WAREHOUSE REMODEL



MATHAUDHU ENGINEERING, INC.

CONSULTING MECHANICAL ENGINEERS

3903 BROCKTON AVENUE, SUITE 5,
RIVERSIDE, CA 92501-3212

(909) 686-1776 FAX (909) 686-5081

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D.L.B.

DATE

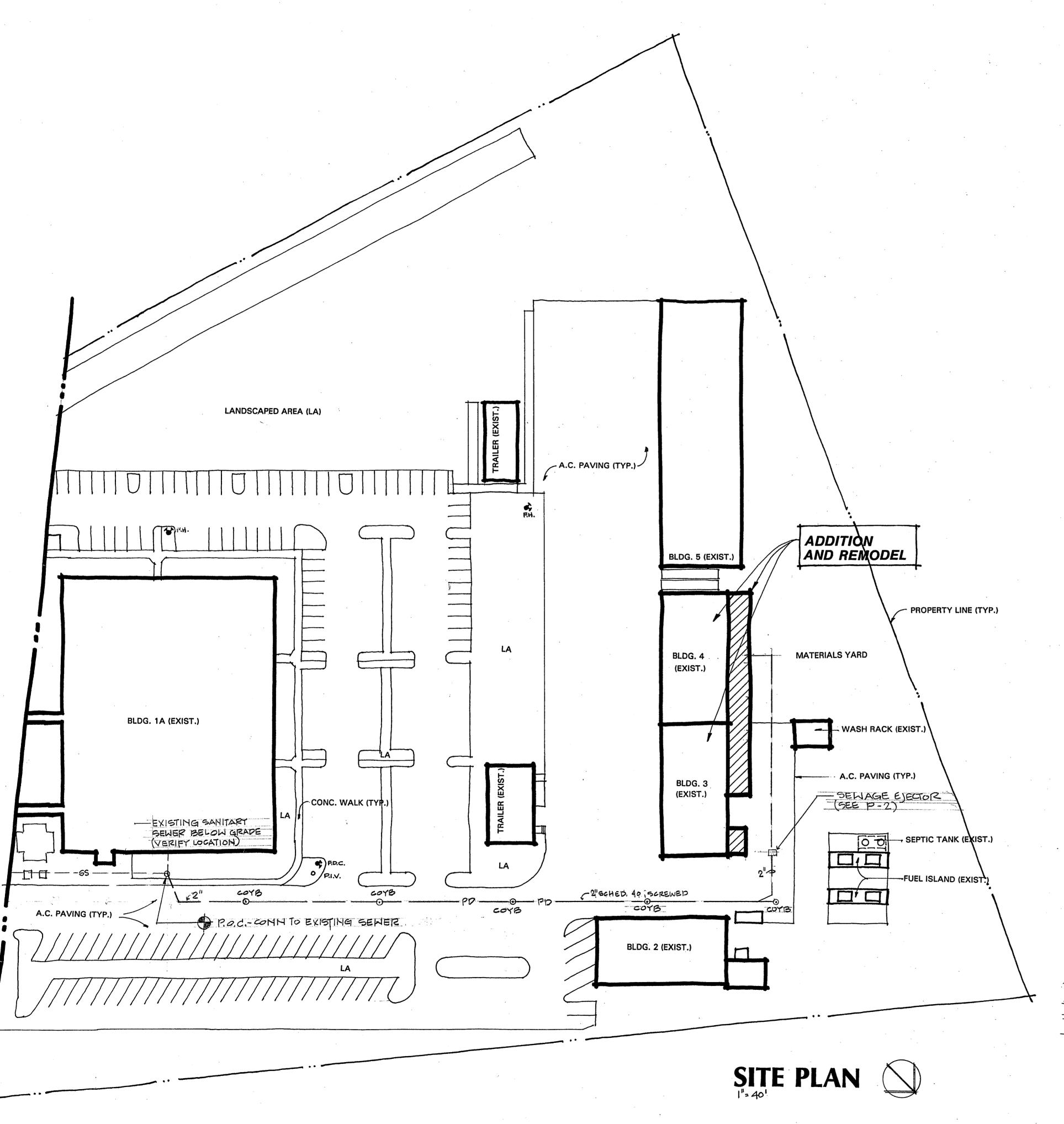
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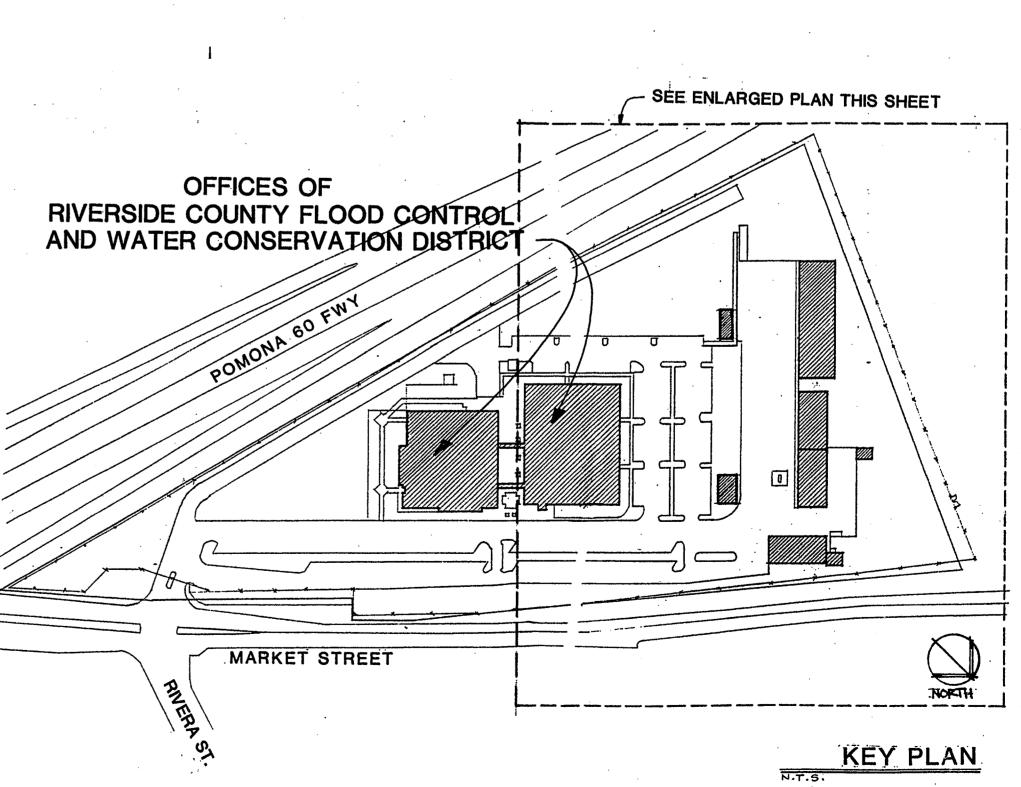
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SHEET

17 of 24 SHEETS







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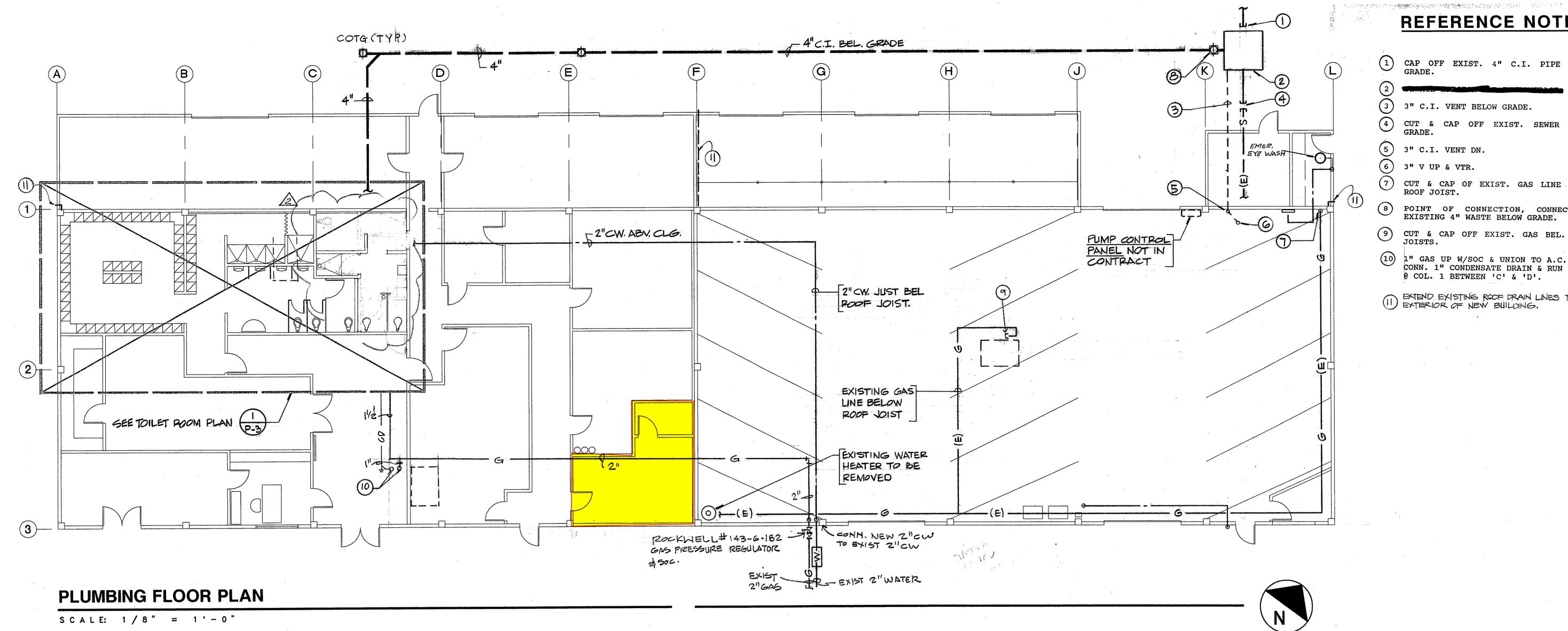
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Phone (909) 686-3520

RIVERSIDE COUNTY FLO WATER CONSERVATION WAREHOUSE REMODEL

DRAWN BY DATE MAY 1995 JOB NO. P-1

18 OF 24 SHEETS



| 101 | RECEIVING/STORAGE |
|------|----------------------------|
| 102 | OFFICE |
| 103 | STORAGE |
| 104 | TOOL STORAGE |
| 105 | MEN'S LOCKER ROOM |
| 106 | MEN'S SHOWER |
| 107 | HALL |
| 108 | MEN'S RESTROOM |
| 109 | WOMEN'S RESTROOM |
| 110 | WOMEN'S RESTROOM |
| 111 | VESTIBULE |
| 112 | |
| 113 | HALL |
| 114 | SURVEY FIELD OFFICE |
| 115 | HALL |
| 116 | HALL |
| 117 | NPDES |
| 118 | STORAGE |
| 119 | HYDROLOGY |
| 120 | CONSTRUCTION LABORATORY |
| 1.21 | CURING ROOM |
| 122 | SHAKER ROOM |
| 123 | OUTSIDE STORAGE |
| 124 | HALL |
| 125 | ENCLOSE FENCE PARTS |
| 126 | HERBICIDE STORAGE |
| 127 | FLAMMABLE TOOL STORAGE |
| 128 | BATTERY ROOM |
| 129 | VEHICLE PARKING |

ROOM NAME

REFERENCE NOTES

- 1 CAP OFF EXIST. 4" C.I. PIPE BELOW GRADE.
- (3) 3" C.I. VENT BELOW GRADE.
- 4 CUT & CAP OFF EXIST. SEWER BELOW GRADE.
- 5 3" C.I. VENT DN.
- (6) 3" V UP & VTR.
- 7 CUT & CAP OF EXIST. GAS LINE BELOW ROOF JOIST.
- 8 POINT OF CONNECTION, CONNECT TO EXISTING 4" WASTE BELOW GRADE.
- 9 CUT & CAP OFF EXIST. GAS BEL. ROOF JOISTS.
- 1" GAS UP W/SOC & UNION TO A.C. UNIT CONN. 1" CONDENSATE DRAIN & RUN TO FS @ COL. 1 BETWEEN 'C' & 'D'.
- DEXTEND EXISTING ROOF DRAIN LINES TO EXTERIOR OF NEW BUILDING.

| REVISIONS | BY | , |
|-----------|----|---|
| A 9-5-95 | | |
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Combs Marr

Architects Inc. 3393 Fourteenth Street Riverside, CA 92501 (909) 686-3520

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RIVERSIDE, CA 92501-3212

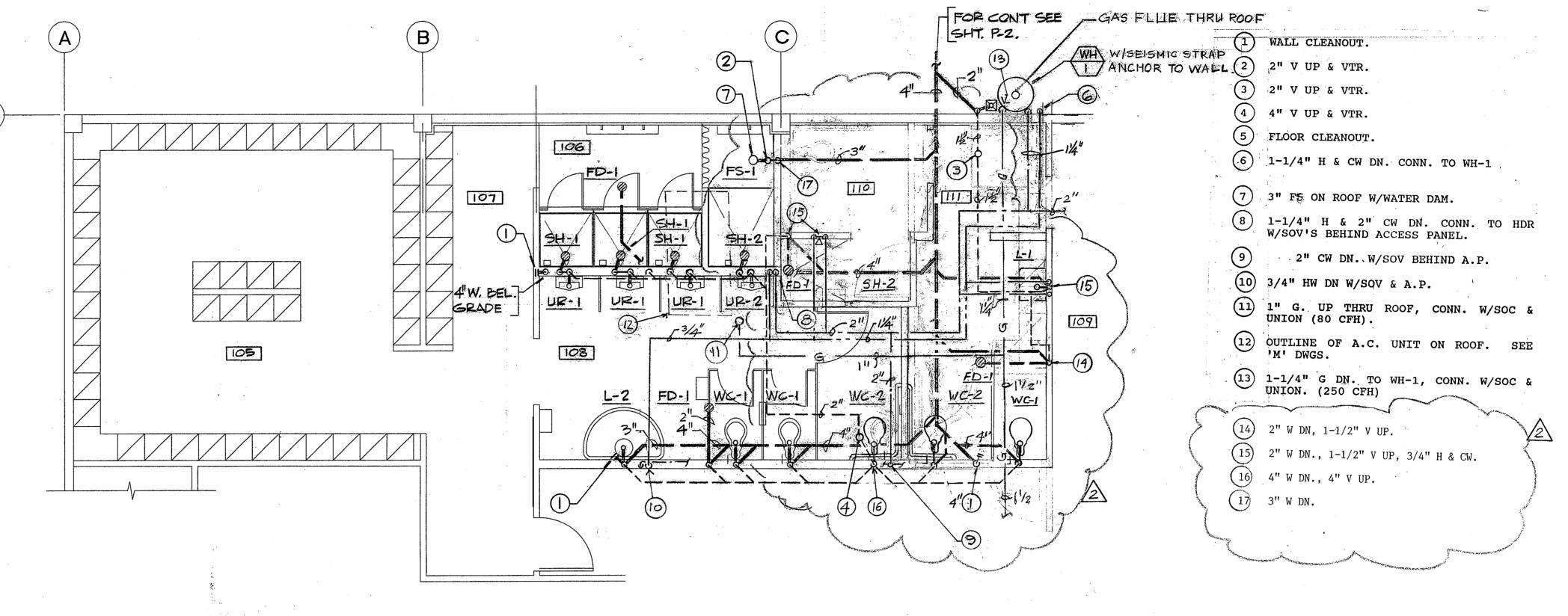
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19 of 24 SHEETS

REFERENCE NOTES



PLUMBING TOILET ROOM PLAN

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



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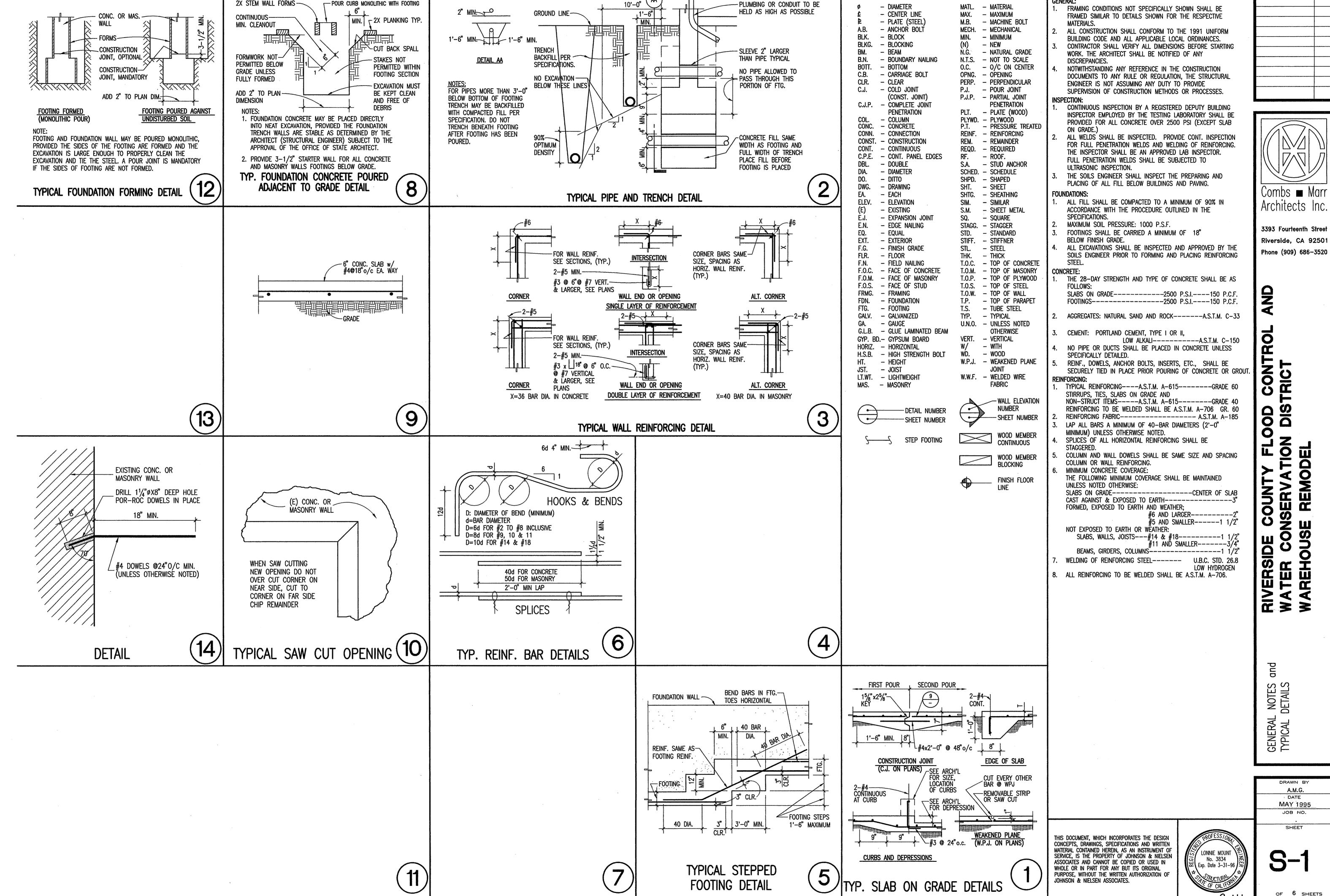
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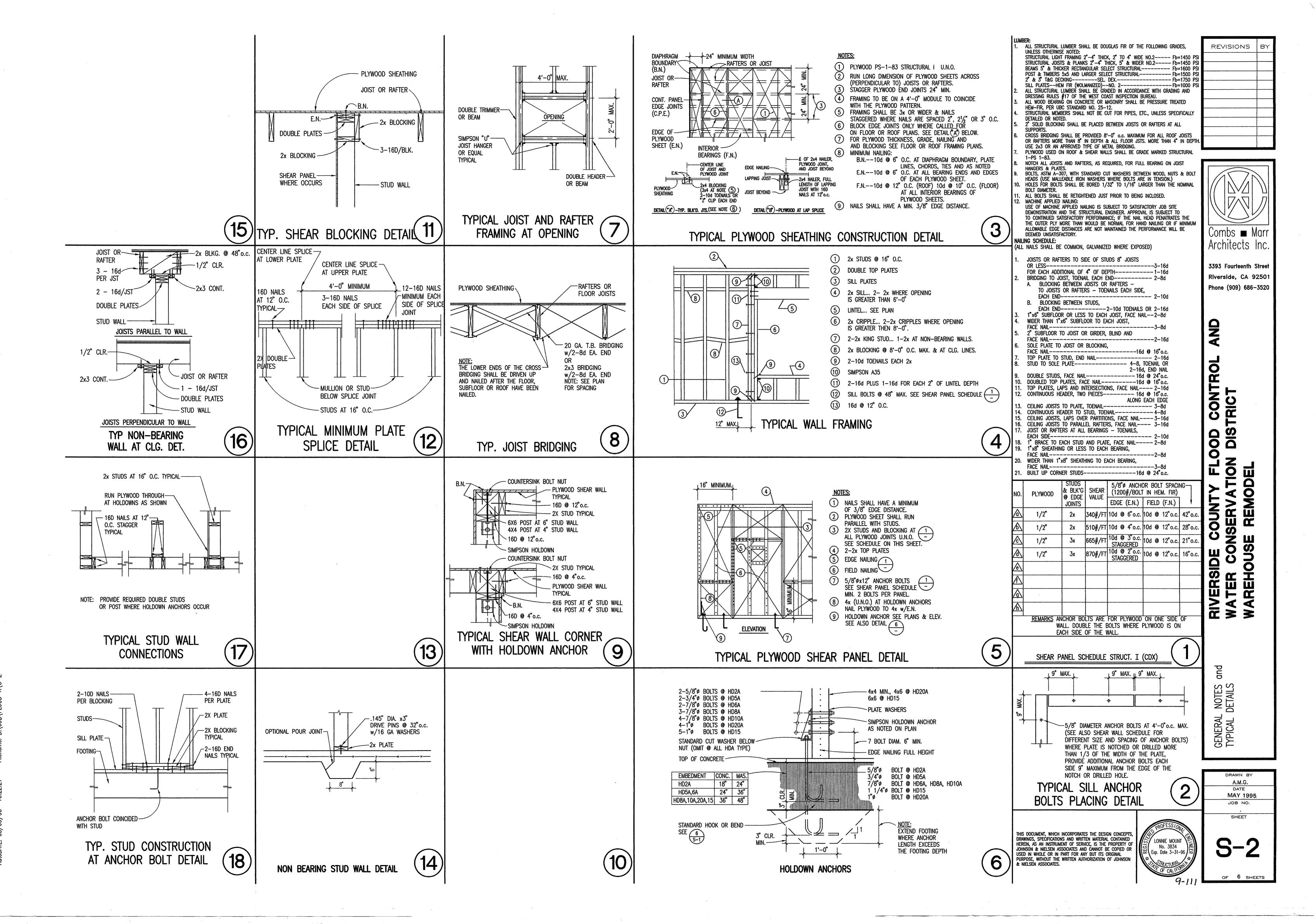
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20 OF 24 SHEETS

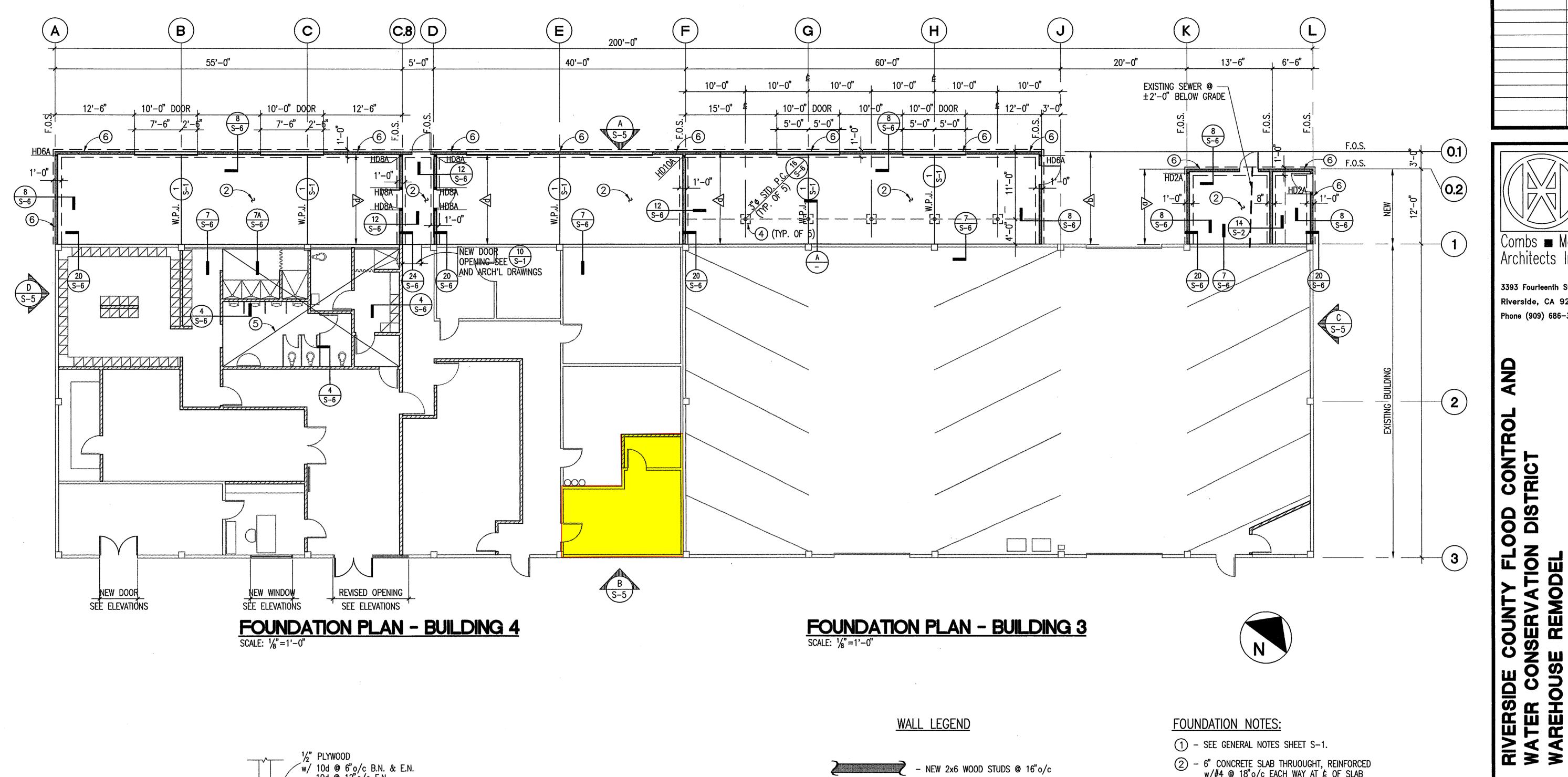


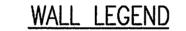
GENERAL NOTES

REVISIONS









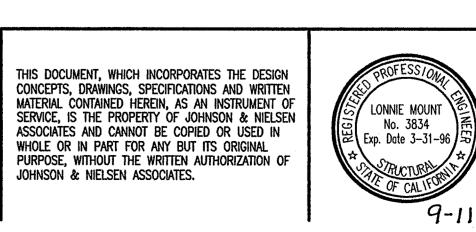
- NEW 2x6 WOOD STUDS @ 16"o/c

 NEW NON-BEARING METAL STUDS (SEE ARCH'L DRAWING) - EXISTING WALL

(SEE ARCH'L DRAWING)

FOUNDATION NOTES:

- 1 SEE GENERAL NOTES SHEET S-1.
- 2 6" CONCRETE SLAB THRUOUGHT, REINFORCED w/#4 @ 18"o/c EACH WAY AT & OF SLAB SEE 9
- \bigcirc \bigcirc Indicates shearwall type see schedule on \bigcirc
- 4 12" DEEP x 1'-6" SQ. THICKENED SLAB PER $\frac{16}{S-6}$
- 5 SAW CUT AND REMOVE SLAB AREA. REPLACE WITH NEW DEPRESSED 4" CONC. SLAB PER NOTE 1 ABOVE.
- SEE ELEVATIONS FOR SHEARWALL TYPE.
- 7 HD_A INDICATE HOLDOWN TYPE. INSTALL AND DEEPENED FOOTING AS REQUIRED PER 6



A.M.G. MAY 1995 JOB NO. SHEET

OF 6 SHEETS

BUILDING 3 & 4 FOUNDATION PLAN

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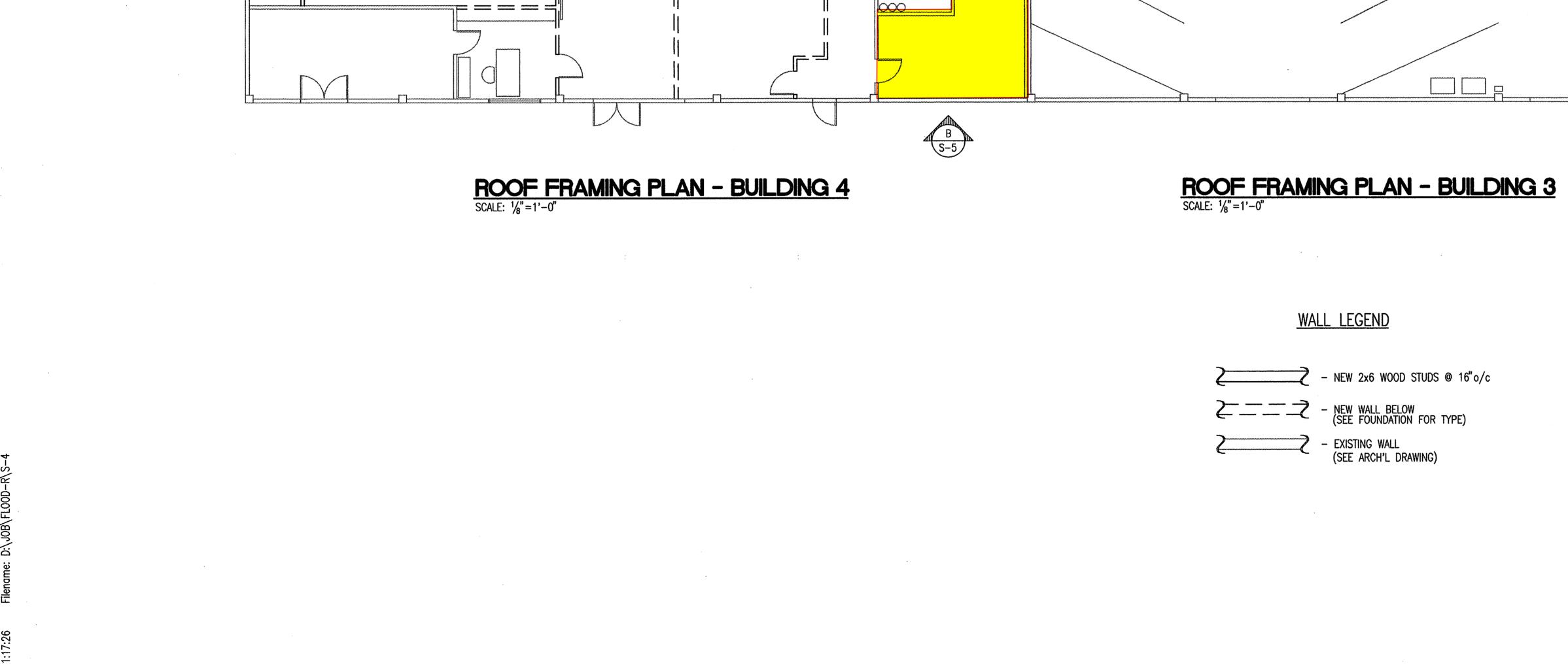
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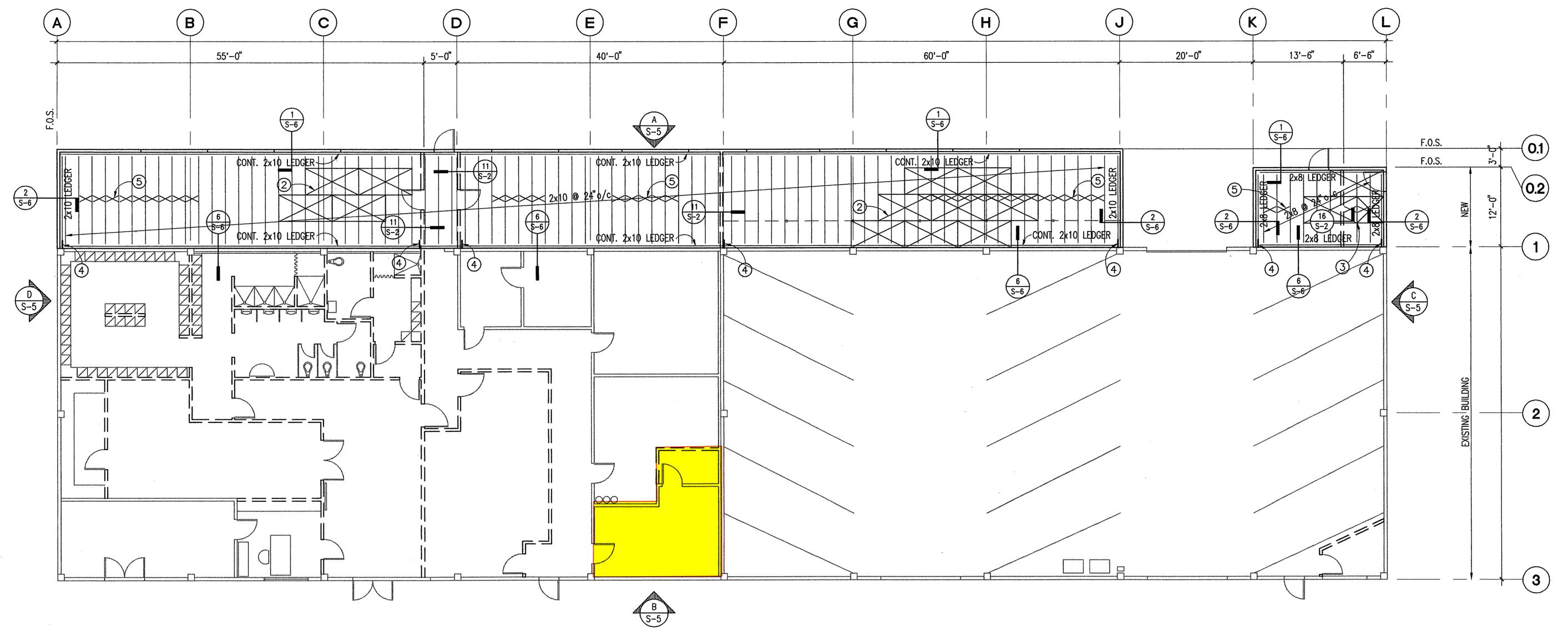
FLOOD CONTROL ON DISTRICT

EXISTING 5½" THK.— CONC. PANEL EXISTING 6" CONC. SLAB

w/ 10d @ 6"o/c B.N. & E.N. 10d @ 12"o/c F.N. 2x6 @ 24"o/c 15 S-6 6 S-6

_3"ø STD. PIPE COL.





ROOF FRAMING NOTES:

(1) - SEE GENERAL NOTES SHEET S-1.

2 - 5/8" STRUCT-I PLYWOOD SHEATHING 3 w/10d @ 4"o/c B.N. 10d @ 6"o/c E.N. 10d @ 12"o/c F.N. (BLOCK ALL JOINTS)

3 - 5/8" STRUCT-I PLYWOOD SHEATHING

w/10d @ 6"o/c B.N. & E.N.

10d @ 12"o/c F.N.

(UNBLOCKED EDGES)

4 - PROVIDE SIMPSON LTT20 AT 6 S-6

 \bigcirc - Continuous cross bridging \bigcirc 8 S-2

OUNT OUNT 34 -31-96 FF

BUILDING 3 & 4 ROOF FRAMING F

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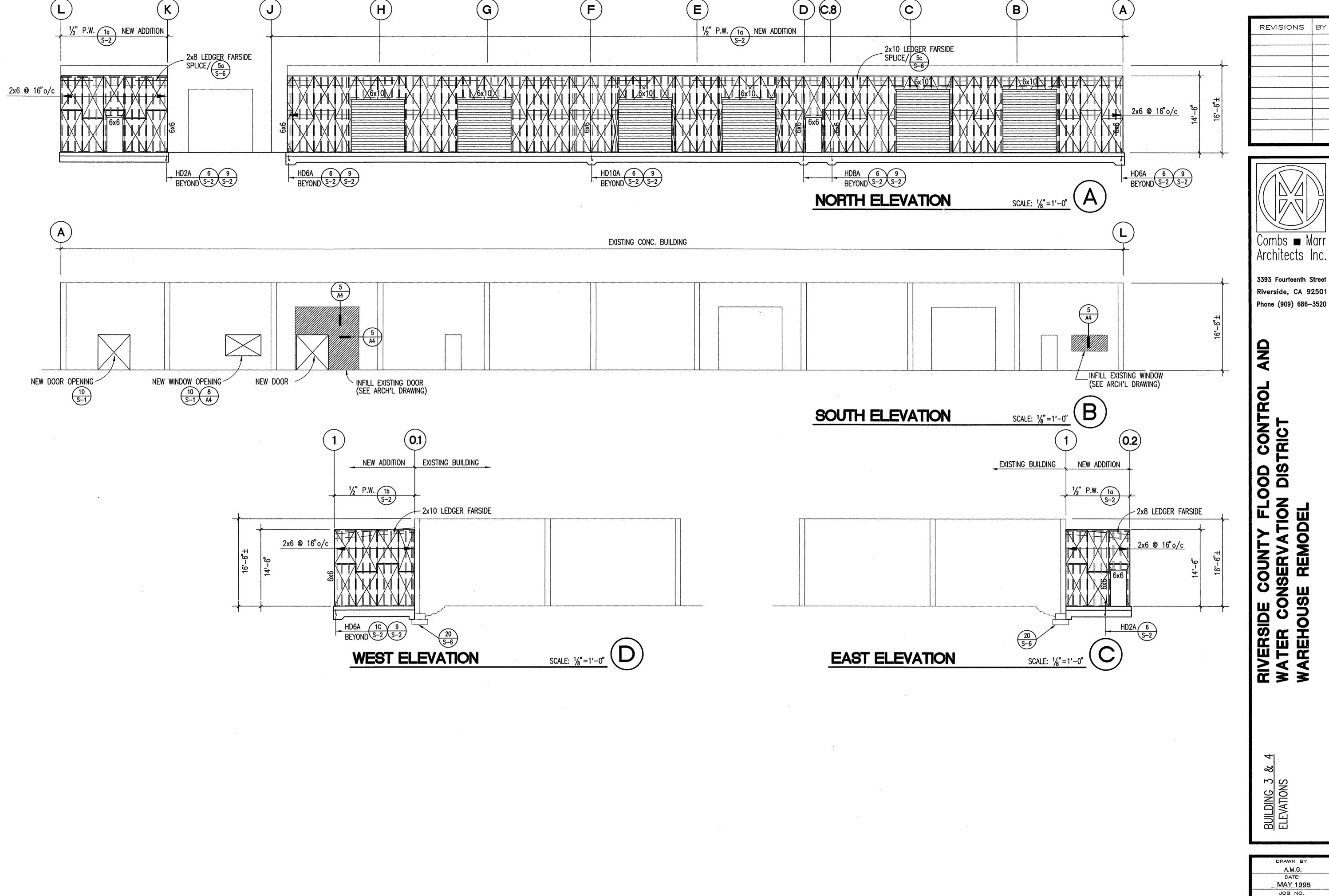
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Phone (909) 686-3520

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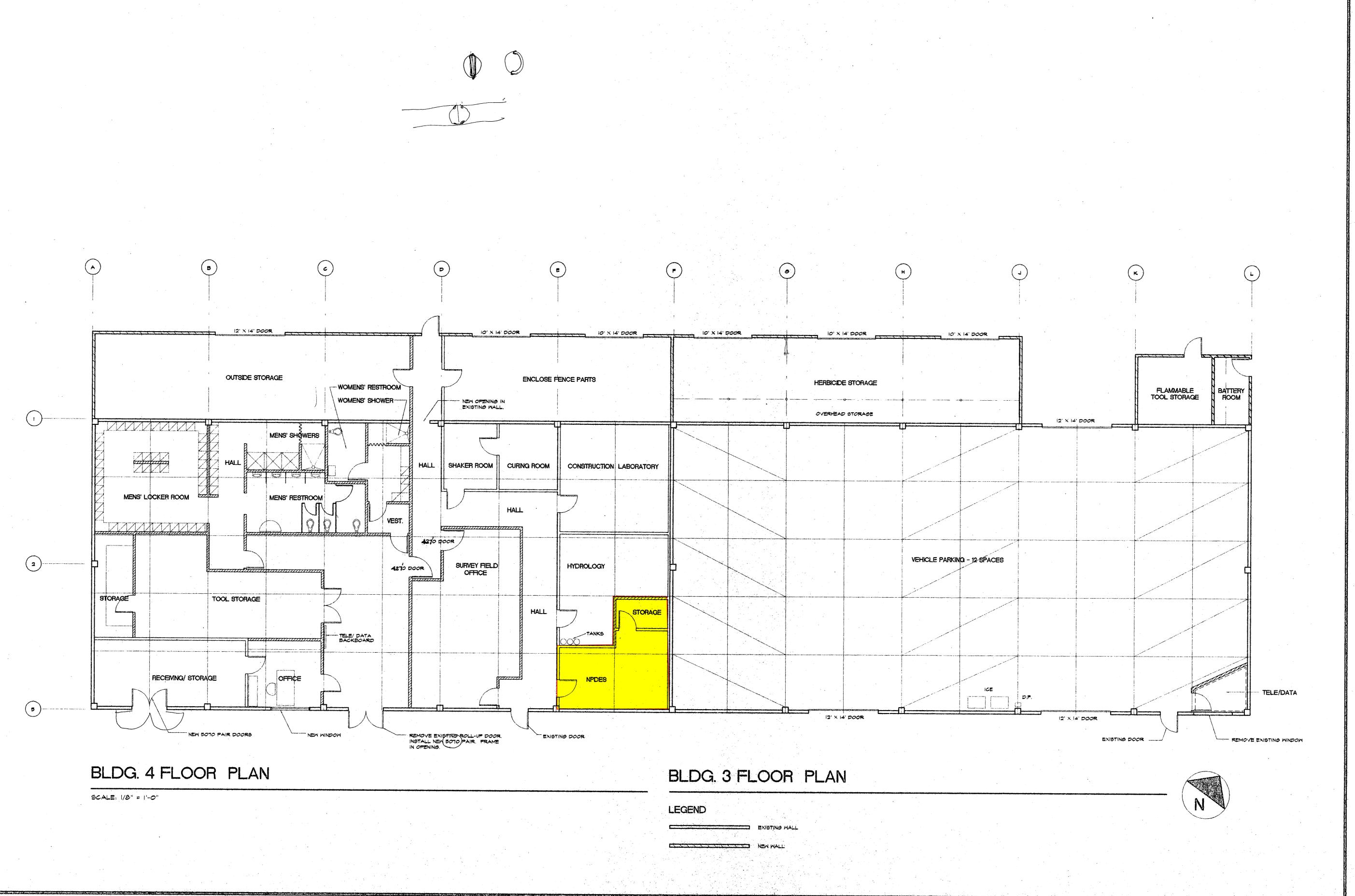
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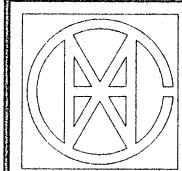
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OF 6 SHEETS

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RIVERSIDE COUNTY FLOOD CONTROL AI WATER CONSERVATION DISTRICT WAREHOUSE REMODEL

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BK, RAA
DATE
1/27/95
JOB NO.
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| OF | SHEETS