Alamogordo City Commission

NOTICE OF MEETING

Regular Meeting Agenda

April 14, 2026 - 6:30 PM
Donald E. Carroll City Commission Chambers
City Hall, 1376 E. Ninth Street

Sharon McDonald ..... Mayor
Joshua Rardin .....Mayor Pro-Tem, District 4
Baxter Pattillo .....District 1
Stephen Burnett ..... District 2
Warren Robinson .....District 3
Al Hernandez ..... District 5
Mark Tapley ..... District 6

Stephanie Hernandez .....Acting City Manager
Darrell Mori .....City Attorney
Rachel Hughs .....City Clerk

MISSION STATEMENT as Adopted by the City Commission on March 24, 1995.
The City of Alamogordo is a Municipal Corporation that exists solely for the purpose of providing the best possible services to our customers, the citizens of Alamogordo. We are committed to providing these services with honesty, integrity, compassion, fairness, and a commitment to excellence.

We are committed to the long-term financial stability and responsible growth of the City and all decisions will be driven by our commitment to provide the best services possible in a financially sound and responsible manner given the economic realities facing the City.

In accordance with Section 10-15-1.D, NMSA 1978 (2010 Cumulative Supplement), this agenda has been posted on the east bulletin board located in the south of the City Hall and in the glass case located outside the north entrance of the City Hall, distributed to the appropriate news media, and posted on the City website: http://ci.alamogordo.nm.us within the required time frame. As a courtesy, the entire Agenda Packet has also been posted on the City of Alamogordo website: http://ci.alamogordo.nm.us

The Mayor and City Commission request that all cell phones be turned off or set to vibrate. Members of the audience are requested to step outside the Commission Chambers to respond to or to conduct a phone conversation. The Alamogordo Commission Chambers is wheelchair accessible. Other special assistance for disabled attendees must be requested 48 hours in advance by contacting the City Clerk's Office at 575-439-4100.

CALL TO ORDER & ROLL CALL

Announce the presence of a Quorum.

INVOCATION & PLEDGE OF ALLEGIANCE

APPROVAL OF AGENDA

PRESENTATIONS

1. Purple Up Day For Military Kids Day Proclamation. *(Sharon McDonald, Mayor)*

2. Presentation of an award by the Veterans of Foreign Wars (VFW) and Police Chief David Kunihiro to White Mountain Drug Task Force Deputy Commander Travis Jones. *(David Kunihiro, Chief of Police).*

3. Presentation of suggestions for Alameda Park, Zoo, and Train Depot Improvements and Collaboration. *(James Perry, Citizen)*

4. Presentation on the Alameda Park Zoo: progress, current status, and path forward toward accreditation and long-term sustainability. *(Kate Maes, Zoo Manager and Belinda Bass, Parks and Recreation Director)*

PUBLIC COMMENT

Residents must sign up with the City Clerk to address the City Commission. The standard allotted time is 3 minutes, but the Mayor reserves the right to change depending on the number of public comments.

CITY MANAGER'S REPORT

REMARKS AND INQUIRIES BY THE CITY COMMISSION

CONSENT AGENDA (Roll Call Vote Required for an Ordinance or Resolution)

All matters listed under the Consent Agenda are considered to be routine by the City Commission and will be enacted by one motion. There will not be separate discussion of these items. If discussion is desired, that item will be removed from the Consent Agenda and will be considered separately.

5. Approve the minutes for the Regular Commission Meeting on March 24, 2026, and the Special Meeting on April 7, 2026. *(Rachel Hughs, City Clerk)*

6. Approve the statements related to the Executive Closed Session of the Special Meeting held on April 7, 2026. *(Rachel Hughs, City Clerk)*

7. Consider, and act upon, Resolution 2026-09, authorizing acquisition of a decommissioned T-38 aircraft to serve as a static display at the Alamogordo-White Sands Regional Airport. *(Troy Orr, Airport Manager)* **(Roll Call Vote required)**

8. Consider, and act upon, approval of Change Order 1, in the amount of $135,750.20, excluding NMGRT, to Crosstown Construction, for waterline replacement and new bypasses, additional concrete work for sidewalk, and additional materials. *(Joseph Samora, Project Manager)*

ITEMS REMOVED FROM CONSENT AGENDA

NEW BUSINESS

9. Consider, and act upon, the final publication of Ordinance No. 1722 authorizing up to $12,865,000 in bonds or a loan to fund improvements to the City's natatorium, with repayment from the 0.125% Municipal Infrastructure Gross Receipts Tax. *(Chris Muirhead, Modrall Sperling and John Archuleta, Bosque Advisors)* **(Roll Call Vote Required)**

10. Consider, and act upon first publication of Ordinance 1723 Declaring the Need to Designate Certain Property in Otero County as a Metropolitan Redevelopment Area. *(Chris Muirhead, Modrall Sperling)* **(Roll Call Vote Required)**

11. Consider, and act upon, Resolution No. 2026-10, authorizing the Submission of an Application to the New Mexico Department of Transportation Local Government Road Fund Municipal Arterial Program for street rehabilitation of 1st St. from U.S 54 to S White Sands Blvd, planning and design project for the FY2026-2027 Funding Cycle. Funds Match $81,250.00 (25%). *(Jimmy Vargas, Public Works Director)* **(Roll Call Vote Required)**

12. Appointments to Boards and Committees. *(Sharon McDonald, Mayor)*

EXECUTIVE SESSION (Roll Call Vote Required)

13. Adjourn into Executive Closed Session in compliance with 10-15-1(H)(2) NMSA 1978 (as amended) to

discuss: Limited Personnel Matters (Discussion regarding the conduct of an employee in a supervisory/operational role within the Parks Department and related management oversight by the City Manager) and 10-15-1(H)(8) NMSA 1978 (as amended) to discuss: Real property known as the Fairgrounds Parking Lot, located at the corner of White Sands Blvd and Fairgrounds Rd **(Roll Call Vote Required)**

ADJOURNMENT

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/02/2026 **Report No:** 1.

Submitted By: Rachel Hughs

Subject: Purple Up Day For Military Kids Day Proclamation. *(Sharon McDonald, Mayor)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Presentation Only.

Background:

This proclamation encourages a time to celebrate military children for their service, commitment, and sacrifices made alongside their parents in support of the military mission.

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/08/2026 **Report No:** 2.

Submitted By: Teresa Gutierrez

Subject: Presentation of an award by the Veterans of Foreign Wars (VFW) and Police Chief David Kunihiro to White Mountain Drug Task Force Deputy Commander Travis Jones. *(David Kunihiro, Chief of Police).*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Presentation only.

Background: A representative from the VFW and Chief Kunihiro will make the presentation.

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 03/23/2026 **Report No:** 3.

Submitted By: Rachel Hughs

Subject: Presentation of suggestions for Alameda Park, Zoo, and Train Depot Improvements and Collaboration. *(James Perry, Citizen)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Presentation only.

Background:

City of Alamogordo City Commission Meeting
AGENDA REQUEST FORM

Today's Date: March 17, 2026

Request Date of Meeting: _____

Name and Title: James Perry

Address: 1 Zia Trail

La Luz NM ZIP 88337

Phone Number: 915-777-2359

E-Mail Address: perryjimandjulie@hotmail.com

Item requested will be for Information only

Brief description of topic to be discussed:
Please attach one original of any documents pertaining to the topic -
We do not allow handouts at the meeting

Alameda Park / Zoo / Train Depot Improvements and Collaboration

Signature: _____

Please return to: Rachel Hughs, CMC, City Clerk
City of Alamogordo
1376 E. 9th Street
Alamogordo, NM 88310

Phone: (575) 439-4100 Fax: (575) 439-4396 E-mail: rhughs@ci.alamogordo.nm.us

My name is Jim Perry – retired art teacher, artist, dreamer, and visionary. I have some ideas on how to improve and beautify the Alameda Park and Zoo. I realize some of these suggestions may already be in place, but even improvement in those existing areas encourages positive change and progress.

1. **Train Noise Damage to Animals/Employees/Visitors**

    a. Intense or prolonged exposure to train noise can cause hearing loss

    b. Natural behaviors can be compromised such as social interactions

    c. Stressors such as increased heart rate and blood pressure can appear

2. **Train Noise Improvement for Animals/Employees/Visitors**

    a. Man made noise barriers as seen on Hwy 375 in El Paso separating the highway from neighborhoods

    b. Natural barriers such as elevated landforms

    c. Sound insulation for off-exhibit spaces

    d. Acoustic sound panels along the zoo fence

    e. Sensory Sundays for the autistic or sound sensitive individuals

3. **Railroad Improvement**

    a. Railroad operators can limit train speed and declare a "quiet zone" along the length of a zoo

    c. Federal grant programs are available for railroad safety and infrastructure improvement

    d. Railroad engagement is encouraged in minimizing noise and contributing to the cost of sound barriers

4. **Zoo Activities**

    El Paso Zoo Attractions to be Considered for the Alameda Park Zoo

    a. Endangered Species Carousel

    b. Desert Spring Interactive Water Play

    c. Wildlife Amphitheater

    d. Canyon Challenge Ropes Course

    e. Desert Botanical Garden

f. Tree-House Playground

Revive an Alamogordo Historical Site

g. 1898 Deer Park

Encouraging Community Involvement Through Individuals or Businesses

h. Ranchers Mini Petting Zoo

i. Toy Train Depot offering rides for arrivals and departures

5. **Permanent Stands that Honor the Desert and New Mexico Flavors**

a. Desert Recipes Book Stand featuring recipes for drinks and foods sold at the zoo stands

b. Desert Bites Hotdog Stand featuring hatch pepper dog, southwest chile dog, and santa fe dog

c. Desert Chill Snowcone Stand featuring tastes such as leche cinnamon, red hot candy, and tamarind

d. Desert Crunch Popcorn Stand featuring green chili cheese, red chile caramel, and biscochito bliss

e. Desert Delights Cookie Stand featuring sweets such as chile chocolate chip, red chile biscochito, or chile oatmeal

f. Desert Drinks Drink Stand featuring hot and cold drinks such as horchata, aqua frescas and champuraddo hot chocolate

g. Desert Snapshots Photo Stand featuring photos with a variety of zoo backgrounds

h. Desert Artistry Stand featuring face painting of zoo animals

6. **Park Enclosure Fence**

a. Enclose the zoo and park with a 4-foot turqoise metal fence

b. Attach metal cutouts of zia, pinon pines, yucca flowers, chiles, roadrunners, coyotes, and Land of Enchantment to the fence

c. A fence with cutout symbols promotes nostalgia and memorable designs to local residents and those traveling through Alamogordo

7. **Zoo Events**

a. Sunrise, moonlight and behind-the-scenes tours

b. Holiday celebrations such as Veteran's Day, Thanksgiving, Valentine's Day and Easter with animal inspired, animal inspired storytellling, and animal inspired crafts

c. National Days such as Zoo Lovers Day, Bird Day, Wildlife Day, Turtle Day, and Reptile Awareness Day

d. Camps such as half-day, full-day, overnight, seasonal, spring/winter break, and teen volunteer

e. Classes such as junior zookeeper, designing habitats, zoo art and photography, zoo journaling, and a variety of mini online classes

f. Games such as scavenger hunts, zoo animal-themed bingo, zoo animal alphabet, animal charades, and I Spy a Zoo Animal

8. **Donations**

a. Free ntrance into the zoo with an item for zoo animals and/or zoo maintenance

b. School class competitions on raising items for zoo animals and/or zoo maintenance

c. Advertise for monetary donations and/or services from individuals or businesses for projects such as landscaping, building stands, noise barriers, and fence enclosure

It will take some time, but the benefits will promote engagement in the community, build lasting connections with nature, improve zoo habitats, stimulate learning, contribute to the greater well-being of employees and visitors, and offer long-lasting memories for all.

Expanded and detailed Info on Zoo

To the City of Alamogordo and Kate Rogers – Zoo Manager:

My name is Jim Perry – retired art teacher, artist, dreamer, and visionary. I have some ideas on how to improve and beautify the Alameda Park and Zoo. I realize some of these suggestions may already be in place, but even improvement in those existing areas encourages positive change and progress.

Train Noise Damage to Animals/Employees/Visitors - Intense or prolonged noise exposure can have a negative impact on animal welfare such as hearing loss, natural activity patterns, reproductive success, long-term survival, missed environmental cues and communication signals, reduction of learning and memory abilities, fear, escape attempts, and avoidance of noisy areas. Natural behaviors such as vigilance, movement, and social interactions are compromised and will typically lead to

physiological stress or agitated responses instead. Employees can experience permanent hearing loss and tinnitus from repeated exposure to loud noise. That noise can also act as a stressor and increase heart rate, blood pressure, and muscle tension. Concentration and communication are impeded, which leads to an increased risk of accidents and injuries. Visitors also experience anxiety or agitation due to noise pollution, and the noise can disrupt the overall experience of the zoo by causing distractions from exhibits and impacting the ability to enjoy the sounds of animals. As an established fixture in the community, it is important to be aware that some individuals on the autism spectrum have heightened auditory sensitivity which can lead to discomfort, anxiety, and sensory overload.

Train Noise Improvement for Animals/Employees/Visitors – Advertise donations and/or services wanted from plant nurseries, landscaping, home improvement stores, construction companies, fencing companies. It's important to manage noise and minimize its impact on all involved. Installing noise barriers between the train tracks and the zoo area can help block or absorb sound waves along with natural barriers such as elevated landforms and vegetation such as dense evergreen trees, hedges, and shrubs strategically placed within and around the animal exhibits. Furthermore, there should be well-sealed enclosures of acoustic sound panels along the zoo fence. Any inside animal enclosures or buildings near the tracks should be equipped with adequate sound insulation that would reduce noise levels. Animals who seek quieter off-exhibit spaces during periods of increased train noise should be furnished with additional sound absorbing features. The visitor center should protect the welfare and comfort of employees and visitors. Earplugs and noise-cancelling headphones can reduce the intensity of the train noise and should be readily available to visitors. Additionally, Sensory Sundays could be established for autistic or sensory sensitive individuals. See El Paso Zoo program.

Railroad Improvements - Railroad operators can limit speeds and declare the length of the zoo area a "quiet zone." The Federal Railroad Administration can restrict the blowing of train horns in sensitive areas such as zoos. Federal grants such as Railroad Crossing Elimination Grant Program or Consolidated Rail Infrastructure and Safety Improvement Program. Railroad companies can voluntarily engage in initiatives to minimize noise or contribute to the cost of sound barriers.

Zoo Activities (See El Paso Zoo) - Endangered Species Carousel/Desert Spring Interactive Water Play/Wildlife Amphitheater/Canyon Challenge Ropes Course/Desert Botanical Garden. Advertise for donations, and/or construction services for activities area.

Deer Park – Offer tribute to the Alamogordo Deer Park founded in 1898 by re-establishing a mini deer park with a historical monument of a deer and a historic land marker. Additionally, build a mini petting zoo with animals provided by local ranchers. Toy Train Depot's train ride could include arrivals and departures from the deer park

and petting zoo. Advertise for donations and/or services for building a deer park and petting zoo.

Hotdog/Snow Cone/Popcorn/Cookie/Drink/Photo/Face Painting Stands – Enlist local volunteers to manage the stands or rent to interested families. Advertise needed donations for stand supplies and/or construction services on building the stands. Sell a recipe book – Desert Recipes (recipes of foods and drinks from each stand). Hot dog stand – Desert Bites (Santa Fe dog, mustard dog, hatch pepper dog, Southwest chili dog, meaty chimayo dog, crispy dog), Snow cone stand – Desert Chill (chamoy, chamoyada, jalapeno, leche cinnamon, red hot candy, picocido, tamarind, traditional cherry, traditional grape), Popcorn stand – Desert Crunch (traditional caramel, red chile caramel, green chile caramel, traditional white cheddar cheese, green chile cheese, red chile cheese, chile Christmas mix, sweet chili spicy, biscochito bliss), Zoo animal cutout cookies – Desert Delights (traditional biscochito, red chile biscochito, green chile biscochito, traditional chocolate chip, chile chocolate chip, traditional oatmeal, chile oatmeal), Drink stand – Desert Drinks (horchata, aqua fresca, traditional hot chocolate, champurrado hot chocolate, champurrado coffee, pinon coffee, traditional coffee) Photo stand with a selection of zoo backgrounds – Desert Snapshots, Zoo animal face painting – Desert Artistry.

Park Enclosure Sign – Advertise desired donations and/or services from metal sign companies and fence/construction companies. The Alameda Park and Zoo is not only an attraction for local residents but for those traveling through the New Mexico area from other cities and/or states. Enclose the park with a 4-foot turquoise metal fence with cutouts of Zia, pinon pines, yucca flowers, chiles, roadrunners, coyotes, and the words Land of Enchantment. Signs are not only appealing to the eyes, but they also attract tourism and encourage beautification projects for the community of Alamogordo. With White Sands Blvd being the main street for traffic, creative signs express bright possibilities, nostalgia, symbols of progress, high visibility, energy, vibrancy, attention-grabbing boldness, aesthetics, transformation of the environment, and memorable designs.

Events - Sunrise, moonlight and behind-the-scenes tours, holiday celebrations, day and overnight camps, half-day and full-day camps, homeschool camps, junior zookeeper classes for summer and spring break, designing habitats class, online zoo courses, zoo art/photography academies, scavenger hunts, animal-themed bingo, I Spy, animal alphabet, classroom competitions raising non-perishable items for zoo animals, Donation Days: the entrance fee into the zoo could be fresh fruits, fresh vegetables, honey, unsalted whole nuts in shell, batteries all sizes, cheerios, peanut butter, fresh eggs, dog milk bone treats, commercial cat and dog food, plastic buckets, sturdy plastic bowls, blankets, boomer balls, Kongs, chew toys, birdseed, towels, lawn and leaf bags, disposable gloves large, unscented bleach, paper towels, Dawn liquid dishwashing soap, or kiddie pools.

Finances/Fundraising - A round-up program, donation jars at businesses, provide an Amazon wish list for thoise wishing to purchase specific items for the zoo, sell zoo t-shirts and calenders at local businesses, participate in community events with a booth and Desert Food Truck, an online zoo site to support fundraising efforts

Zoo Newsletter – Monthly, mission statement, zoo quotes, animal poems, visitor stories, student essays, community submitted drawings and photography, animal births, animal of the month, projects, renovations or improvements, spotlight on a specific species, new exhibits, calendar of events, volunteer recognition and opportunities, staff recognition, memberships of varying levels, appreciation and recognition of donors, wordsearch, crossword, coloring page, conservation efforts, suggestions, historical zoo photos

Advertising - radio stations, free admission coupons for A honor roll, newspapers, restaurant menus, business and community bulletin boards, television, phone app, mail, email, Alamogordo Chamber of Commerce, Facebook, Facebook Marketplace, Instagram, LinkedIn, Tik Tok, YouTube, Snapchat, X, Yelp, Craigslist, magazines, brochures, Google My Business, Google Ads, Yahoo, internet classifieds, phone book, podcasts, Amazon Ads for business, blog or vlog, business cards, Roku Ads, vehicle advertising, local business directories, Nextdoor Ads, positive comments and feedback on City Watch Alamogordo,TripAdvisor,

It will take some time, but the benefits will promote engagement in the community, build lasting connections with nature, improve zoo habitats, stimulate learning, contribute to the greater well-being of employees and visitors, and offer long-lasting memories for all.

If you have any questions, please feel free to contact me.

Jim Perry
915-777-2359
perryjimandjulie@hotmail.com
1 Zia Trail, La Luz NM 88337

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/09/2026 **Report No:** 4.

Submitted By: Stephanie Hernandez

Subject: Presentation on the Alameda Park Zoo: progress, current status, and path forward toward accreditation and long-term sustainability. *(Kate Maes, Zoo Manager and Belinda Bass, Parks and Recreation Director)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Presentation only.

Background: The Alameda Park Zoo has undergone significant operational and infrastructure improvements since 2021, with a focused effort on achieving Zoological Association of America (ZAA) accreditation. This presentation provides an update on the Zoo's progress, current status, and future direction.

The presentation will provide an overview of the Zoo's progression through three key phases:

- Where We Were: Historical conditions, including infrastructure limitations, accreditation challenges, and operational gaps.
- Where We Are: Current status, including improvements in animal welfare, veterinary care, infrastructure, safety, programming, and accreditation readiness.
- Where We Are Going: Strategic priorities, including planned capital improvements, remaining compliance items, accreditation goals, and long-term vision for enhancing community impact, education, and tourism.

2026 ZAA Accreditation Standards Review

Facility Readiness & Compliance Overview

Presented by Kate Maes

Discussion Topics

I. Introduction
   A. Purpose of Presentation
   B. Importance of Accreditation
II. Overview of ZAA Accreditation Standards
   A. Core Areas of Evaluation
   B. 2026 Updates and Revisions
III. Current Facility Status
   A. General Assessment
   B. Summary of Findings
IV. Areas of Compliance (Strengths)
   A. Animal Welfare and Husbandry
   B. Veterinary Care
   C. Record Keeping and Animal Management
   D. Facility Operations and Safety
V. Areas Requiring Improvement
   A. Documentation and Written Policies
   B. Program Development
   C. Veterinary Program Enhancements
   D. Public Interaction Policies
VI. Compliance Gaps: Key Themes
VII. Action Plan
   A. Immediate Priorities
   B. Mid-Term Goals
   C. Long-Term Objectives
VIII. Conclusions
   A. Overall Readiness
   B. Path Forward
   C. Final Statement

Alameda Park
ZOO
ALAMOGORDO NM

Introduction

- Accreditation
- Animal Care and Welfare
- Infrastructure and Safety improvements
- Public Engagement
- Visitor Experience

ZAA

ZOOLOGICAL ASSOCIATION OF AMERICA

Advocate. Educate. Conserve.

I.B. Importance of Accreditation

Accreditation ensures that a facility meets and maintains a high standard for animal welfare and care. To obtain and maintain accreditation, a facility must meet and/or exceed USDA standards for animal welfare and care, including but not limited to;

- **Housing and enclosure maintenance, complexity and cleanliness**
- **Sufficient enrichment opportunities and schedules**
- **Proper life support system maintenance, failure warning system or emergency back up systems, and a contingency plan in the event of system failure.**

Species specific socialization needs, such as sufficient population for Non-Human Primates

Access to veterinary services for routine and non-routine services and procedures, such as in 2024 when Winnie the black bear required a root canal procedure.

I.B. Importance of Accreditation

In 2016, Zoo management declined to renew the AZA accreditation.

- **Changing standards**
- **Aging facility**
- **AZA vs ZAA**
- **USDA Changing standards**

II. ZAA Accreditation Standards

A. Core Areas of Evaluation
    1. Animal Welfare, Care and Management
    2. Veterinary Care
    3. Conservation
    4. Education and Interpretation
    5. Physical Facilities
    6. Safety and Security
    7. Governance and Administration
B. 2026 Updates and Revisions

Content within these standards have been adjusted grammatically to ensure the language is clear and easily understood. Only standards applicable to the Alameda Park Zoo have been included.

Alameda Park ZOO
ALAMOGORDO NM

ZAA
ZOOLOGICAL ASSOCIATION OF AMERICA
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II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Animal care and management is one of the most critical and complex tasks performed in zoos and aquariums. ZAA accredited facilities are guided by current professional principles and standards that ensure the animals within the facilities collection receive the best care possible.

Laws and Regulations

- **Facilities must comply with all local, state and federal laws and regulations. For operation where these standards are less stringent the facility must meet ZAA standards.**

General

- **Facilities should have an Animal Collection Plan (ACP) or Master Plan to guide future acquisitions and dispositions, as well as a written policy on acquisitions and dispositions.**
- **Facilities should provide the staff with access to ZAA standards, professional training and development tools.**

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Records

- Facilities must show on-going and sustained use of a zoological management system for managing animal and veterinary records as well as all other relevant information. The system, whether it be electronic or paper, must be easily accessible and have backup records stored in an alternate and secure location to ensure future access in the event that the original records are lost.
- Facilities must create and maintain an annual animal inventory that includes animal acquisitions and dispositions whether it be by birth, transfer, death or release to the wild. The inventory must include all specimens within the collection, owned and on loan.
- Animals within the collection must be identifiable by corresponding individual or group IDs. These IDs can include, but are not limited to tattoos, tags, photos, transponders/microchips, leg bands, and/or ear notches. For animals maintained in groups or colonies where specific individuals cannot be easily identified, a written explanation of how records are kept must be maintained.
- All records must be kept current, and all available data must be provided to receiving institutions when an animal is transferred and to the species studbook keeper upon request.
- Facility must provide training to relevant staff to ensure consistent data entry.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Records

The zoo now has a completed record system meeting USDA standards, using the Species 360 animal record system. Animals have proper medical records, daily observation sheets, enrichment, and training logs.

Veterinarian Services are contracted with both Paw and Hand Clinic- Dr. Lambden and Franklin Veterinarian Clinic in Ruidoso.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Animal Welfare

- Facilities must maintain safe and sanitary conditions for all species within their collection. The facility standards must promote welfare as well as mitigating animal neglect, maltreatment and potential to pose a threat to public safety.
- A documented process for assessing animal welfare and wellness must be maintained. The process for identifying, communicating and addressing animal welfare concerns with staff must be clear and transparent and without retribution. Communication must be done in a timely manner.
- Facilities must ensure that animal areas, enclosures and holding areas are safe, well maintained and of a size and complexity to provide for the animal's physical, social and psychological well-being.
- Animals must be kept in appropriate groupings that meet their social and welfare needs.
- Facilities must provide shelters appropriate for the species that will provide protection from excessive heat, cold and/or other conditions that are known to be detrimental to the animal's health and safety. Natural or artificial shade structures must be provided for animals housed outdoors to protect from direct sunlight.
- Animal habitats must provide adequate drainage for surface water and runoff.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Animal Facilities

In 2022, The Mexican Grey Wolf Exhibit was selected as a ICIP grant project. This project was a major milestone towards accreditation because the condition of the wolf housing was one of the oldest needing improvement. This project was the start of the perimeter walls being in compliance with the USDA. To be considered for accreditation, the zoo must meet all USDA requirements. The zoo's perimeter wall did not meet USDA standards until the end of 2025.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Primate Exhibit

ALAMOGORDO NM

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Mexican Grey Wolf Exhibit

ALAMOGORDO NM

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

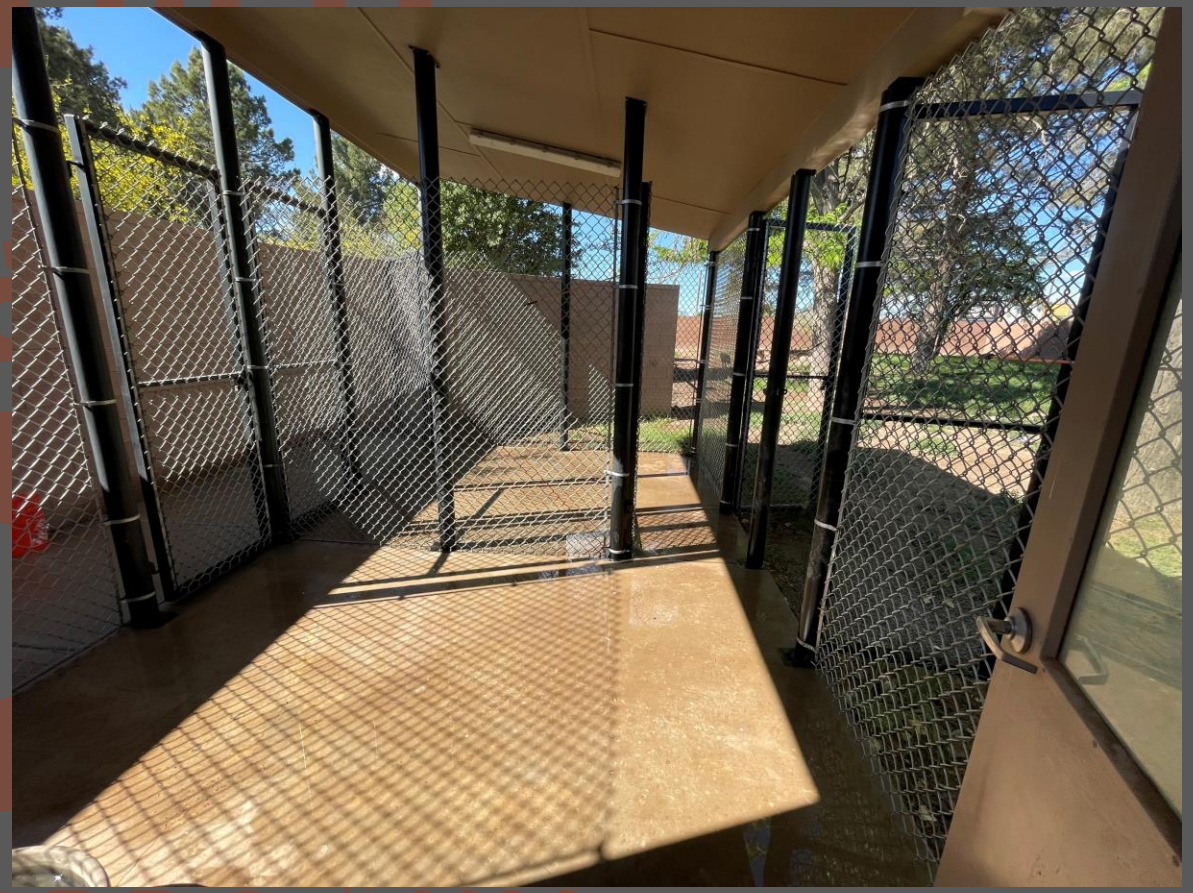
Mexican Grey Wolf Exhibit

ALAMOGORDO NM

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Mexican Grey Wolf Exhibit



ALAMOGORDO NM

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Fencing

- **Since 2021, zoo staff has replaced camel exhibit fencing, kangaroo exhibit fencing, mule deer fencing/perimeter wall, tapir fencing/perimeter wall, and improved guest barriers throughout the zoo.**

II.A. Core Areas of Evaluation

1. Animal Welfare, Care, and Management

Reptile House

- In the memory of Lynn Rice, the zoo reptile house was transformed into a walk through reptile exhibit. This was completed March 2026.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Education Building

- **Holloman Big Give Winner 2025**

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Education Building

- **Holloman Big Give Winner 2025**

II.A. Core Areas of Evaluation

1. Animal Welfare, Care, and Management

Bear Expansion Project

- **This project will double the area space for the bears, add a climbing feature, and a new water feature. The current bear exhibit is not in compliance with the USDA, with a non-functioning water feature.**

Duck Pond Project

- **This project is underway, with a new flighted aviary, an improvement to the duck pond drain, and a dividing fence under the bridge.**

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Animal Welfare

- Clean drinking water and water sources must be provided daily. Reptiles and amphibians must be provided water in a manner appropriate to ensure their health and welfare.
- Facilities must have a regular program for monitoring water quality for collection fish, aquatic invertebrates, aquatic amphibians and aquatic reptiles. The facility must monitor and record water quality for closed systems.
- The facilities critical life-support system(s) must be equipped wit ha failure warning or emergency backup system. The facility must have a contingency plan in the event of failure.
    - Critical life support systems are defined as any system that provides the means to meet the husbandry needs of a species such as heating/cooling systems for reptiles, birds and/or mammals during winter or summer months.
- Animals housed in long-term or permanent indoor enclosures must be provided with appropriate species-specific UV spectrum lighting.
- Facilities must conduct animal transportation in a manner that is safe, well-coordinated and implemented to minimize risk to the animals, staff and public. All applicable federal, state and local laws and regulations must be followed.
- Animals within the collection must be cared for and managed with optimum welfare in mind.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

<u>Enrichment and Husbandry Training</u>

- Facilities must have developed, implemented, maintained and documented species-specific enrichment programs which includes animal history, husbandry and evidence-based practices that enhance the overall health and well-being of the animals.
- Facilities must have developed, implemented, maintained and documented species-specific training programs which includes animal history, husbandry, evidence-based practices and veterinary procedures that enhance the overall health and well-being of the animals.

<u>Public Contact Animals</u>

- The facility should take reasonable sanitary precautions to minimize the likelihood of disease or parasite transmission.
- The facility must evaluate collection animals that come into contact with the public for appropriateness to ensure compatibility with the program/encounters. Animals must be exhibited in a manner that prevents injury to the animal and public. Class I animals shall only come into physical contact with the public in accordance with ZAA standards for Public Contact with Class I Wildlife.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Enrichment and Husbandry Training

- In 2022, Positively Wild started working with zoo staff to create a baseline for animal training and enrichment. This has provided the zookeeper staff with the tools to improve medical procedures, animal transport, and care.

II.A. Core Areas of Evaluation

1. Animal Welfare, Care and Management

Public Contact Animals Policy

- ZAA standards classify animals as Class I, II and III categories for the purpose of establishing guidelines on perimeter fencing, habitat and other requirements. These categories are not for the purpose of establishing whether the animal is or is not a danger to the public.
- Public contact or handling intervals for Class I wildlife shall be limited as to frequency, intensity and duration to prevent adverse effects to the animal's health, welfare and/or safety as well as to prevent injury to the public.
- Class I carnivores as well as Class I and II primates shall not be permitted to come into contact with the public.
- Contact with Class I wildlife is authorized only as follows:
  - Elephants and rhinos under direct control of handlers.
  - Reptilia other than Class I Crocodylia: Large constrictors more than ten (10) feet in length or sixty (60) pounds in weight must have two trained handlers and an additional handler for every additional five (5) feet in length.

II.A. Core Areas of Evaluation

2. Veterinary Care

ZAA-accredited facilities ensure the health and welfare of all animals in their care. Qualified veterinary staff and access to modern veterinary facilities is required. Concerns regarding animal health should be addressed, assessed, treated and corrected promptly, utilizing the veterinary staff and American Association of Zoo Veterinarians (AAZV) resources.

Veterinary Care Program

- **Facilities should refer to the Guidelines for Zoo and Aquarium Veterinary Medical Programs and Veterinary Hospitals, and the policies developed or supported by the AAZV.**
- **The facilities Veterinary Care Program (VCP) must be a written document that includes the preventative medicine schedule, including vaccines, parasite exam, routine exams, etc.**
- **The facility must maintain a complete medical record on animals within the collection, including all preventative care, veterinary consults and treatment. These records must be easily searchable and retrievable.**
- **The facility must stay alert and respond to periodic disease outbreaks. Plans must be instituted if/when an incident is identified.**
- **The facility must maintain a written Program of Psychological Wellbeing for any singly housed primate and/or behaviorally compromised primates.**

II.A. Core Areas of Evaluation

2. Veterinary Care

Pharmaceuticals

- The facilities contracted veterinarian is responsible for prescribing or coordinating the prescription, storage, distribution and use of all animal prescription drugs in a fashion that complies with all applicable state, federal and local laws and regulations.
- Controlled drugs are secured in an appropriate locked container.
- The facilities trained emergency capture personnel must have access to appropriate chemical immobilization drugs.
- The facility should have all written protocols for handling of prescribed animal drugs available to animal care staff. These protocols must display appropriate security of drug inventory.

Equipment

- The facilities capture equipment must be in working order and available to authorized and trained personnel.
- An emergency drug dose supply should be maintained for all dangerous animals within the collection.
- The facility must have access to diagnostic, monitoring, lab, and radiographic equipment or contract these services.

II.A. Core Areas of Evaluation

2. Veterinary Care

Preventative Medicine

- The facility's preventative medicine program must document the frequency of physical examinations, vaccinations and parasite prevention. Ensuring there is a plan in place for every species in the collection is paramount to the overall wellbeing of the collection.
- Animal care staff should be knowledgeable of the animal's natural history and diet, capture and restraint procedures, and training to assess normal and abnormal behavior as well as overall welfare.

Nutrition

- The facility's animal food preparation and storage areas must meet all applicable stare, federal and local laws and/or regulations.
- The facility must follow a written nutrition program that includes quality and quantity that meets the behavioral and nutritional needs for all animals within the collection.
- The facility must have identified, researched and reviewed for safety; all browse plants prior to use for diet or enrichment. A record of all used/approved browse must be kept.
- The facility must conduct periodic inspections for potential toxic plant risk and exposure near animal habitats. Staff must be aware of all such risks to help monitor potential exposure.

Alameda Park Zoo
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II.A. Core Areas of Evaluation

2. Veterinary Care

Quarantine

- The facility must have holding and/or isolation facilities and/or protocols for newly arrived animals as well as the treatment of sick or injured animals.
- Facility staff working with quarantined animals must be familiar with the written quarantine procedures.
- Facility quarantine, hospital and isolation areas must follow standards in the Guidelines for Zoos and Aquarium Veterinary Medical Programs and Veterinary Hospitals as developed by the AAZV.

Pest Control

- The facility must have a pest control management program to address threats of contamination by and of pests to animals, staff and/or visitors. Methods must comply with all state, federal and local laws and regulations while not threatening the health and well being of the animals, staff and/or visitors.

Necropsy

- The facility should rely on the expertise of the facility veterinarian to order or otherwise perform necropsies and/or determine if such a procedure is necessary in the event that cause of death is not obvious.

II.A. Core Areas of Evaluation

2. Veterinary Care

Necropsy

- Necropsies are performed and recorded to track morbidity and mortality trends to strengthen the program of veterinary care and care of the animal collection.
- The facility must perform necropsies in an area and in a manner that minimizes risk of disease exposure to collection animals, staff and/or visitors.
- The facility must store and dispose of animal remains in accordance with all applicable state, federal and local laws and regulations.

Euthanasia Policy

- The facility must follow AVMA or AAZV Guidelines for Euthanasia of Animals unless circumstances warrant alternative protocols to prevent suffering and/or inhumane circumstances.

II.A. Core Areas of Evaluation

Veterinary Care

In 2021

- The zoo consulted with a nutrition consultant from Wild and Exotic Animal Nutrition Services. A complete overhaul of the dietary program at the zoo.
- Began animal escape training and use of the dart gun.
- Established and new veterinarian program, non-human primate program of care, and avian program of care that were in compliance with the USDA.
- Including monthly routine animal health checks and vaccine schedule.

II.A. Core Areas of Evaluation

3. Conservation

Conservation Program

- **The facility must participate in and contribute to a local, regional or international wildlife conservation program as well as monitor the impact of the effort on that program. The facility should demonstrate conservation action that includes components outlining the facility's conservation practices such as in-situ conservation efforts, natural resource conservation and sustainable/green practices, and conservation education and advocacy programs.**

AMP Participation/Support

- **The facility must participate in each AMP that pertains to an animal within the collection. It is mandatory to participate in the collection of data pertaining to AMP animals, at least at a minimum of records submission. The facility may indicate at what level it desires to participate in each AMP.**

II.A. Core Areas of Evaluation

4. Education and Interpretation

General

- The facilities mission and goal are key components of Education and Conservation.
- The facility must have a written education plan that includes goals and objectives. This plan should include graphics, signage and AV technology (wherever possible) to support the educational mission.
- The facility must research, evaluate and implement current scientific understanding of the animals in their collection. The facility should measure and evaluate the efficacy of graphics and programs for modifications needed to better serve the facility's animals, conservation and/or educational messaging.

Ambassador and Education Animals

- The facility must have a written Animal Ambassador policy for on and off-site programs. Policy should include a written biosecurity protocol regarding Animal Ambassadors and off-site programs, to protect other collection animals from exposure to infectious agents.
- Education, conservation and welfare messages must be an integral component of all facility programs/encounters.
- The facility must always ensure Animal Ambassador and human safety by ensuring that staff assigned to handle these animals are trained in facility animal handling protocols.

II.A. Core Areas of Evaluation

4. Education and Interpretation

<u>Ambassador and Education Animals</u>

- The facility must present, house and maintain Animal Ambassadors (whether on or off-site) with foremost attention to animal welfare consideration and the same level of care as the facility's static animal collection.
- The facility must maintain Animal Ambassadors in housing that meets their physical, social and psychological needs. Consideration should be given to the amount of time that an animal is engaged in programming with respect to its physical, social and psychological needs.
- The Ambassador and Education Animals Policy should include a limit to the amount of time an Animal Ambassador may be engaged in programs and/or encounters.

II.A. Core Areas of Evaluation

4. Education and Interpretation

Ambassador and Education Animals

ALAMOGORDO NM

II.A. Core Areas of Evaluation

4. Education and Interpretation

Ambassador and Education Animals

- Jr Zookeeper Summer Program
- School Visits
- Career Days
- Reptile Shows- Island of Misfit Morphs
- Keeper Talks
- Earth Day

II.A. Core Areas of Evaluation

5. Physical Facilities

Accreditation is based on the facility's operations existing at the time of inspection.

Housekeeping, Improvements and Maintenance

- The facility must maintain regular housekeeping.
- The facility must have a preventative maintenance program that outlines how to identify and address maintenance, and a schedule including corrective maintenance and improvements.

Equipment

- The facility is required to have its mechanical equipment maintained and in working order.
- The facility must have a policy for the systems and methods of fire protection and security, including routine maintenance and safety checks.

Animal Enclosures

- The facility must provide adequate lighting, sufficient in all inddor night houses and exhibits with means of emergency lighting where needed.
- The facility must provide sufficient ventilation in all indoor facilities, including animal holding, to minimize odor and provide air exchange.

II.A. Core Areas of Evaluation

5. Physical Facilities

Animal Enclosures

- The facility must provide animals with protection from excessive heat or cold and availability of sufficient shade and shelter for the welfare and comfort of the animals.

Public Areas

- The facility must provide adequate lighting in public buildings.
- Public areas must be kept free of debris and hazards and must be well maintained.
- The facility must present a professional, clean and aesthetically pleasing environment to the visiting public.

II.A. Core Areas of Evaluation

6. Safety and Security

<u>Safety and Security</u>

- The facility must be within compliance wit hall applicable laws and regulations regarding employee and volunteer training for safety in the workplace.
- The facility must have an appropriate occupational health and safety program. The program should include protocols to minimize transference of zoonotic diseases to/from animals and staff/visitors. Training and prevention methods should be provided to staff to minimize the risk of zoonotic disease.
- Staff assigned to work with toxic/hazardous materials must be trained in the proper handling, labeling and storage of said materials per facility, state, federal and local laws and regulations.
- Flammable materials must be properly labeled and stored.
- The facility's Safety Data Sheets (SDS) must be accessible to all staff (whether physically or digitally) per the facility, state, federal and local laws and regulations.
- Safety procedures should be in place for visitors.
- The facility must have security protocols applicable for the size and nature of the facility. These protocols can include things like monitored camera surveillance and security personnel trained to respond to respective zoological emergencies.

II.A. Core Areas of Evaluation

6. Safety and Security

Emergency Procedures

- The facility must work with local law enforcement and other emergency agencies with planning, drills and training as appropriate.
- The facility should conduct, record and evaluate emergency drills/training on a regular basis. The drills may be simulated, interactive exercise, tabletop exercise and/or analysis of the response to a recent actual emergency. The following drills should occur at a minimum of once per year:
  - Fire Environmental Emergency (appropriate to the region) Animal Escape
  - Injury to visitor/staff Venomous Animal Bite (if applicable)
  - Emergency Evacuation of Guests Diver Extraction (if applicable)
- The facility must maintain an appropriate emergency supply, written protocols and staff training for emergency situations. Including appropriate alarms and fire extinguishers readily available and training for all staff as well as a written plan for first aid and other various health emergencies.
- The facility must have a communication system that can be quickly accessed in case of emergency, including but not limited to 2-way radios, public address systems and cell phones.

II.A. Core Areas of Evaluation

6. Safety and Security

<u>Facilities/Animal Exhibits</u>

- The facility's animal habitats and holding areas must be secured to prevent unintentional animal egress.
    - Shift doors, gates, personnel doors, double-door safe entry systems, habitat barrier dimensions, construction and locking/latching mechanisms must be present and in good condition.
- Animal service areas must be safely lit, free of debris/hazards and provide space to allow safe servicing by personnel.
- Facility animals maintained in a free-ranging setting that will come in contact with personnel/public must be carefully monitored and welfare assessed.
- Facility electrical service in all wet environments, aquatic exhibits and associate service areas must be equipped with ground fault circuit interrupters (GFI).
- The facility's public access areas, gates/doors must be unobstructed and meet all applicable laws and regulations.
- Barriers must be of sufficient strength and design to deter public entry into animal habitats or holding areas and to protect the animal, personnel and public from injury.

II.A. Core Areas of Evaluation

6. Safety and Security

Facilities/Animal Exhibits

- Animal habitats must be of sufficient strength and structurally designed to prevent egress and to protect the animal, personnel and public from injury.
- The facility's sanitation, water and waste disposal methods must be in accordance with all applicable laws and regulations.
- The facility must observe safe electric delivery practices such as circuits not being overloaded and electric supply should be hardwired instead of permanent use of extension cords.

Risk Management

- The facility should have a written protocol for the review of and response to potential risks as appropriate to the size and location of the facility.
- A written policy/protocol for staff contact with Class I animals should be available.

Potentially Dangerous and Venomous Animals

- Facilities maintaining venomous animals must have an appropriate anti-venom plan that includes availability, location and administration information.
- The facility's antivenin location should be known by all staff working in relevant areas with a staff member assigned to keep inventory, dispose/replace and store antivenin.

II.A. Core Areas of Evaluation

6. Safety and Security

Potentially Dangerous and Venomous Animals

- It is the responsibility of the facility to ensure that appropriate antivenins are available locally for all venomous species maintained at the facility, and for which antivenins are produced. Facilities may rely on the antivenin supply of local hospitals and treatment facilities, but it is also the facility's responsibility to guarantee that these inventories are maintained adequately.
- The facility must have appropriate policies and protocols in place to prevent an unintentional encounter resulting in injury to a human. Emergency protocols must be in place to respond to such events. These events should be document and evaluate the incident and document actions taken to avoid similar events in the future.
- Facilities housing venomous animals or other animals that pose a serious threat or catastrophic injury, or death must be equipped with appropriate alarm systems or have protocols/procedures in place to notify staff in case of accidental egress or injury.

Security/Firearms

- The facility must have adequate security protocol(s) in place.
- The facility must store firearms in a locked cabinet or room of sufficient construction and design that limits access to trained firearms personnel and to impede unauthorized entry.

II.A. Core Areas of Evaluation

6. Safety and Security

<u>Security/Firearms</u>

- The facility must have drugs and drug delivery equipment specified for the species within the collection and they must be available as recommended by a veterinarian. If the veterinarian uses vet techs or directs others to assist in the delivery of immobilization drugs, they should be identified in writing and practiced at least once a year or as recommended by the veterinarian.
- Facility personnel trained and authorized to immobilize/capture animals, other than a veterinarian, must have documented training as recommended by the veterinarian.
- Facility personnel trained and authorized to utilize firearms must have documented training as recommended by a firearms expert or instructor. Proper caliber ammunition should be specified for each species at the facility as recommended by the firearms expert or instructor. If a firearm team exists at the facility, they should train as recommended by the firearms instructor or expert. The facility may use local law enforcement as their firearm team or in conjunction with their firearms team if local law enforcement is willing and will train with zoo staff.
- The facility's firearms team must be documented and known to Animal Collection management.

II.A. Core Areas of Evaluation

6. Safety and Security

<u>Security/Firearms</u>

- The facility's Director or their designate should review the recapture in mobilization plan and ensure that it follows all local, state and federal laws. Veterinarians should confirm that the plan meets AVMA standards.

<u>Perimeter Fence</u>

- The facility must be enclosed by a perimeter fence or barrier. The fence or barrier must be constructed so that its primary function is to protect the animals within the facility by restricting animals outside the facility and unauthorized persons from going through or under it and making contact with the animals within.
- The perimeter fence must be separate from all animal habitats or other animal areas by at least three (3) feet and is of sound quality and construction.
- Sections of the fence that also act as the containment fence for non-Class I or Class II animals must have been in place during the facility's most recent USDA licensing inspection.
- Facilities that only house Class II and Class III animals must have a fence of no fewer than six (6) feet. Facilities housing Class I animals must have a fence of no fewer than eight (8) feet and constructed of no less than 11 ½ gauge chain link or equivalent material.
- Instances where outside terrain provides a viable barrier may have written exemption from the USDA, local government agencies and approval by ZAA.

Since assuming the role of Zoo Manager in March 2021, my primary focus has been to elevate Alameda Park Zoo to professional operational standards while improving animal welfare, visitor experience, and long-term sustainability. Over the past several years, the zoo has transitioned from basic maintenance operations toward compliance-driven, strategically planned growth.

Significant progress has been made in animal care and welfare, including the complete overhaul of veterinary care plans, the development of updated diets with an exotic animal nutritionist, the implementation of annual vaccination schedules, routine health monitoring, and the establishment of a USDA-compliant animal records system. A positive-reinforcement animal training program was introduced and is now routinely used for medical care, weighing, and daily animal management. The zoo's enrichment program has expanded and has received positive recognition during USDA inspections.

The zoo has made meaningful strides toward accreditation readiness. The final primate exhibit was completed, and now houses mandrills, and the zoo successfully passed an AZA primate inspection. This approval allows accredited facilities to place breeding primates on loan and represents a critical step toward ZAA accreditation. A zoo consultant was hired to guide accreditation efforts and long-term master planning.

Infrastructure and safety improvements have been a priority due to the zoo's age. Structural repairs were completed between major exhibits, a yearly tree trimming and removal program was established, and ongoing safety evaluations are now standard practice. The zoo secured its first-ever ICIP funding, completing the Mexican gray wolf back quarters and exhibit in 2024, with additional ICIP projects approved to address walls, exhibits, and pond renovations.

The zoo has expanded its species diversity and conservation impact, introducing new species that enhance education, conservation breeding opportunities, and public engagement. These additions provide the community access to species that many visitors would otherwise never experience.

Visitor experience and community engagement have also grown. Improvements include upgraded signage, added seating and shade, expanded education programs, weekly keeper talks, zoo-led Earth Day events, the continued growth of Zoobilee, Wednesday evening zoo hours, and the return of Zoo Movie Nights. Volunteer engagement reached a milestone in 2025 with the Holloman Big Give, which transformed the education building.

Overall, since March 2021, Alameda Park Zoo has demonstrated measurable progress in compliance, infrastructure, animal welfare, accreditation readiness, and public engagement. These accomplishments establish a strong foundation for continued growth, modernization, and long-term success.

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/09/2026 **Report No:** 5.

Submitted By: Beau Dylan Aleshire

Subject: Approve the minutes for the Regular Commission Meeting on March 24, 2026, and the Special Meeting on April 7, 2026. *(Rachel Hughs, City Clerk)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Approve the minutes.

Background:

CITY OF ALAMOGORDO, NEW MEXICO
CITY COMMISSION REGULAR MEETING DRAFT MINUTES
6:30 PM, DONALD E. CARROLL COMMISSION CHAMBERS
March 24, 2026

SHARON MCDONALD, MAYOR
JOSHUA RARDIN, MAYOR PRO-TEM
BAXTER PATTILLO, COMMISSIONER
STEPHEN BURNETT, COMMISSIONER
WARREN ROBINSON, COMMISSIONER
AL HERNANDEZ, COMMISSIONER
MARK TAPLEY, COMMISSIONER
STEPHANIE HERNANDEZ, ACTING CITY MANAGER
DARRELL MORI, CITY ATTORNEY
RACHEL HUGHS, CITY CLERK

CALL TO ORDER & ROLL CALL

Mayor McDonald called the meeting to order at 6:30 PM. Roll Call was taken by the City Clerk. Mayor Pro-Tem Rardin was absent. Commissioner Burnett was initially absent, but later joined in person at 6:40 PM. City Clerk Hughs announced there was a quorum present.

INVOCATION & PLEDGE OF ALLEGIANCE

The Invocation was given by Pastor Jerry Martinez, and the Pledge of Allegiance was led by Commissioner Pattillo.

APPROVAL OF AGENDA

Commissioner Robinson moved to approve.
Commissioner Pattillo seconded the motion.
Motion Passed with a vote of 5 - 0 - 0.

PRESENTATIONS

1. Statutory Compliance with the New Mexico Open Meetings Act, Governmental Conduct Act, and Ethical Standards for Public Officials Training by New Mexico Municipal League. ***(Clinton Nicely, Risk Services Director, Darrell Mori, City Attorney)***

Mr. Nicely gave his presentation.

Commissioner Burnett joined the meeting at 6:40 PM.

Recusals (true or perceived) and Abstentions (OMA)

Commissioner Robinson said at the last training with you, you said we should not abstain if we do not have to. You really should go one way or another. Mr. Nicely said that was correct. I do not wish to suggest that abstentions are weaponized when I say that, because I do not think they are, but you are in your role to weigh in on these topics. Sometimes it is uncomfortable. Sometimes you may not wish to weigh in on these topics. Unless you have a really good reason to recuse or abstain, which is different, you should be weighing in with a yea or nay vote. An abstention is just the absence of a vote. You do not have a reason to recuse yourself because you don't have a conflict of interest, but you can not vote on that item for some other reason. An abstention is a non-conflict-related reason that you cannot vote.

Commissioner Robinson said he had previously attended the Municipal Officials Leadership Institutes Levels 1 and 2 hosted by the New Mexico Municipal League, and came back more tenuous. We really need continual training. It would not hurt us to go over these things and be accountable for the service we give to the public.

2. Presentation of Golf Course Maintenance Update. ***(Michael Bradley, Golf Course Superintendent and Belinda Bass, Parks and Recreation Director)***

Golf Course Superintendent Bradley gave his presentation.

Commissioner Tapley said when we met a few weeks ago, one of the main concerns you had now was with the watering process. Many people do not understand or know that spin cleans are probably a big issue. Golf Course Superintendent Bradley said they are huge. Commissioner Tapley asked if those were three weeks out. Golf Course Superintendent Bradley said probably four, but five to six is more realistic. The order has been placed, but I do not know how many people were in place before us. We are still tracking down components. A company had said they could supply the hose, but then they could not, and so we are looking at other possibilities right now. I have tried to communicate all our pumping issues to the Pro Shop, so if they are asked, they can address them as well.

Commissioner Pattillo asked what had been learned from the irrigation project. Golf Course Superintendent Bradley said he believed that things were done out of order prior to myself and Parks and Recreation Director Bass. We were blessed with financial grants. The pumps were horrible, and when we cleaned out the wet wells for those units, it was not sediment from pond water. Rust and decayed metal were brought out. I think going through the purchase with CES was a mistake because that set us back $350,000 off the top that we could have used elsewhere. Everything else went well. Last year, we drained the ponds and tore apart the spin cleans, which had no maintenance records. We had everything functioning flawlessly, and it worked for about three months before they showed issues. The spins that we had before those new ones were bought, were rated and constructed, regardless of material, to be in clean water. Our water is anything but clean. We are addressing that with what we have now.

Commissioner Pattillo asked what the history of effluent water was on the course, up to the present, and what the future looks like. Golf Course Superintendent Bradley said the analysis of the water was over one thousand parts per million. I do not know how much that fluctuates in testing; that is only an average. The soil is well over two thousand parts per million. The water level itself isn't as concerning as it would be, compared to if you were to drink it, but salt water is thirty-five thousand parts per million. Over the years that we have used it, it has made the soil either non-responsive or non-supportive to much life. Plants that are hanging on continue to do so. Some areas are doing better because they receive overspray from when we put out acids to wash and rinse through and alleviate the salts. With any acid, you need a reliable system. When the pump that puts out the water shuts down, the chemical pump doesn't know that, and it will build up pressure in the line. You don't want to eat holes in the line. The water's effect on the soil is drastic. With the chemicals I used, I saw quick results on the back nine. They treat the water and the soil. At the rates we are putting out, it will cure the soil to a level close to normal within a year of twelve full calendar months. We could probably push it, but we should not hurt the existing plants. The vegetation will be better for it. Next year, it is just treating water, so expenses go down.

Commissioner Burnett said regarding the presentation that Parks and Recreation Director Bass gave last year regarding things to implement, where are we on those? Parks and Recreation Director Bass said this presentation addressed quite a bit of that. We have windmills, and aeration is going on. We are still seeking grants and funding for the pond realignment, as well as for driving range improvements. Big things are for NPDES compliance and to offer golf-adjacent activities. We also need new driving range nets for other reasons. We are constantly seeking out funding for anything we can apply for.

3. Presentation for RFP 2026-001 Golf Course Operations and Management Services. ***(Maxim Golf, American Golf, and Kemper Sports Management)***

Acting City Manager Hernandez said Maxim Golf will go first. American Golf and Kemper Sports Management can follow Parks and Recreation Director Bass to the conference room. For procurement purposes, we have to keep them sequestered so no one company has the benefit of hearing some of the questions, and everything is fair and equal. After Maxim Golf presents, they will leave the room. Then the next presenter will present, who will then leave, and so on. After that, they can all come back and watch our meeting.

Maxim Golf

CEO Bryan Minnis and Director of Marketing Griffin Mott gave their presentation.

Mayor McDonald asked if they had improved a course like ours, and if so, what were the numbers before and after for revenue growth, rounds played, expense control, and timeline? Mr. Minnis said the Spring Valley course in Neosho, Missouri, was a great example of that. When we took that course over, it had significant course condition

issues. Probably not as severe as here. We have been there for about two and a half years. Revenues are up about $350,000 over last year. It was originally about $550,000, but this year it will do just under $900,000. It sits in a community of twelve thousand people. I believe they played around 14,000 rounds, and we are around twenty-one thousand rounds today. Another example is Green Hills. I believe the revenue was originally around $400,000. This year, it will do just over $750,000. It was sustaining losses from $150,000 to $250,000 a year. We have had cash flow in the last four of the five years of operating that course. That one year we didn't, in 2024, we lost $31,000.

Mayor McDonald asked what authority they needed and what would stay with the City. Mr. Minnis said they would consider themselves partners with the City. It is your asset, and we work for you. That's the bottom line. We will advise you and hope you take our advice. When you want to do something with your asset that you believe is in the best interest of the property and taxpayers, then we will swing in that direction to the best of our ability. A collaborative effort is always best. Mayor McDonald asked if that included pricing control, staffing decisions, vendor selections, and private carts. Mr. Minnis said yes, that is a complicated question. On almost all our properties, we use a yield management dynamic pricing structure. On June 30th, when budgets have to be in place, there is no way you have any idea what your golf course will be worth on October 3rd or March 5th of the following year. It is a decision for this Commission to determine whether or not tee times can be yield managed, but they certainly have an influence. The customer sets the value of anything and everything. You may think we set the value, but it's really our members and patrons who do. They write the check and pay the fee. They vote on whether or not it is priced correctly. When it comes to procurement and vendors, the City has control of that, and if there is anyone they do or do not want to do business with. We will avail all the procurement. When it comes to buying golf carts or working with food or merchandise vendors, we have a lot of buying power. We want to extend that opportunity to the operation, but we do not mandate it. In our sample contract, we allow for the joint approval of the Head Golf Professional or Director of Golf, a Food and Beverage Director, and a Superintendent. You cannot make me hire someone that I do not want to hire, and I cannot hire someone that you do not want to hire. So the agreement says that in these key leadership positions, we will agree that the person to be hired is acceptable to us and to you.

Mayor McDonald asked what incentives they had to improve performance in areas like paid flat fees, revenue share, and performance bonuses. Mr. Minnis said they do performance bonuses in one of two ways. We have done bottom-line or top-line performance bonuses. In this instance, a top-line performance bonus makes sense. We would look at historical revenues over the last several years and set a benchmark. Let's say total revenues, including food and beverage, are nearly $2,000,000. We may say that if we get to $2,200,000, we get 10% of that difference. That would be something we work on collaboratively in the contract. We love incentive bonuses, but the ultimate motivation is to have a long-term relationship. We have never lost a client.

Mayor McDonald asked what the transition from the current contractor to your management company looked like. Mr. Minnis said it takes 90 days to make a true transition. We can begin operating immediately; the true transition would involve things that are ongoing, and they cannot typically be determined by the deadline of signing a contract. If you picked someone tonight to start on May 1st, I would tell you it would be reasonable to expect the full transition to happen sometime in early July. We have an exhaustive transition list that we provide. We will also have staff here from our corporate office in the beginning to ensure a smooth transition and give on-ground staff needed support.

Commissioner Burnett said the maintenance aspect wasn't in the RFP, but what is important about having complete control of the golf course? All the functions? Mr. Minnis said it is not always important to have complete control. It really depends on the collaborative effort if there is no complete control. I listened closely to the previous presentation, and I would agree with the things said regarding existing challenges for getting this golf course into really good condition. I want to be clear. If we have any influence, our goal is that it would become pristine. I do not believe there is anything that can keep it from doing that. I am not a trained agronomist, but I am knowledgeable in this field and have worked directly in it. Effluent water is tricky. High sodium content is a problem for grass. Consistent aerification, applications of gypsum, and other things can go into the soil to make the plant healthier. That will take time. We are not really interested in managing the golf course if we do not at least have a voice at the table. Our reputation is very important to us. You can look at our products and make phone calls. We are very good on the agronomic side. We have intelligent people who can work with your intelligent people to solve the problem. Commissioner Burnett asked if they had ever partnered with a golf course where they did not have a seat at the table on the maintenance aspect. Mr. Minnis said yes, one time. That is why I will not do that again. We can have the friendliest people and best food to make hamburgers, but if the actual hamburger meat isn't any good, it doesn't matter. We have had in-depth

conversations with our agronomic teams to determine if this was something we could help fix, and they have assured me it can be fixed.

Commissioner Pattillo said given your experience in eleven municipalities, on the transition front, how would you describe that? What would you say you need for a transition? Mr. Minnis said we would need open dialogue and time with City staff. We need to understand the team operating there today and what their desires are to continue working there. We do not know them well, but from our brief interactions, I think they are tremendous people who do an excellent job. We can help them do a better job and provide a better product. We need access to those people and find out who will lead this place going forward. We need a lot of communication.

Commissioner Hernandez said without a seat at the table or complete control of the maintenance part of it, what would you think your chances are of surviving a four-year contract? Mr. Minnis said anybody who would not want us to have at least a voice. A voice is different than control. If control isn't an option, that's fine. We do not really understand the dynamic today, but we presented it that way in case it was going to be desired or requested. We can perform that duty. Many hands make a heavy load light. We should be at the table. We are experienced operators and run impressive properties. I think it would be unwise for someone to say they got this and did not need our help. I do not want to work in that environment. Commissioner Hernandez said he had seen the condition of the grounds daily for the last ten years. I do not know if I could run a golf course like that. Mr. Minnis said Google is powerful; you can review our properties. We are not perfect, but we know a lot.

Commissioner Burnett said the topic of private carts came up when the City proposed taking over the golf course internally. They proposed taking away private golf carts. What is your take on that? Mr. Minnis said that it is a City decision, but I wouldn't encourage it to be made. I do believe that private carts should be compliant, and there should be an appropriate trail fee paid. I think you have a fleet of around 40 gas golf carts. Private carts can serve a great purpose and can help keep the fleet down. Private carts are a privilege, not a right. We manage several properties with private carts, and it has not been a challenge for us to do so.

Commissioner Tapley said there is concern regarding tournament play leagues. What is your take on that? Mr. Minnis said league play is very important. We try to develop as many leagues as we can play. There are members, passholders, and public patrons. We have been very deliberate in ensuring we have plenty of daily feed tea times opportunities available to the general public. We have moved a lot of tournaments to weekdays. We have been told many times we need to move those to weekends, but most of the time, that is not true. We move tournaments to weekdays. We have had to cap memberships and move tournaments to find the right balance to ensure that people who play golf infrequently have the right kind of access to do so.

Commissioner Tapley said if we decide to work with your establishment, and you do not have a say in the maintenance part of it, let's say Mr. Bradley says it's very dry in May, and we need to put the card in the car. Is that an issue? Mr. Minnis said not if he is right. We may not agree. I do not know him, but I want to believe we would work well together. We are pretty aggressive in our organization about releasing golf carts onto the grounds. 95% of the time, superintendents are more restrictive. A good superintendent wants to protect the golf course, but we also have to protect the business. People at the golf course may think they will be careful where they drive, but they do not always do that. That is part of this business. This golf course is not in good condition, and when you tell people that they cannot drive out there, they will just look at you like, really? You have to get the course in good shape. I would also recommend getting lithium battery golf carts. The cart barn is definitely electrified. With electrified carts and GPS, you can restrict them and keep them where you want them to go. We try to be as unrestrictive as possible. Commissioner Tapley asked if GPS was something they were looking to implement. Mr. Minnis said absolutely. They are very helpful. They show the golfer where they are, and it also shows the golf shop where they are, too. It is a very valuable tool.

Commissioner Pattillo asked if there were other dealbreakers. Mr. Minnis said he did not think so.

American Golf Corporation

Senior Vice President Paul Ballam gave his presentation with Vice President of Business Development Scott Scozzola and National Director of Agronomy Marc Lilleberg.

Mayor McDonald asked them to show or tell about a course like ours that you have improved. What are the numbers before and after for revenue growth, rounds played, expense control, and timeline? Mr. Ballum said we have three courses that are similar in scope and size that we have taken over in the last two years, which have in excess of 25% revenue growth. It's an improvement in rounds growth and in many cases an improved rounds mix. The unused tee times are no longer going unused, so we are increasing revenue because we are managing the T-sheet better. We are filling those times at a lower dollar rate, but adding up to a higher revenue. We see our Players Club program average about 500 players club members at courses, and we are seeing driving range revenue as a result of that increase by 50% to 100%. Commissioner Pattillo asked for the names of those courses. Mr. Ballum said they were the Alandre Golf Course, Marshall Canyon Golf Course, Knabe Golf Course, and El Carioso Golf Course.

Mayor McDonald said she believed the plan for the next twelve months was on the actual sheet. Mr. Ballum said yes, we actually provided 4 years of projections.

Mayor McDonald asked what authority they needed now to take over the golf course, and what would stay with the City. Mr. Ballum said we would take over the golf course after the signing of a management contract. We would hire all the employees, who would become American Golf employees immediately. Then we would need to utilize existing equipment and golf carts. The title of those items would stay with the City. Over time, we could work with the City to use our preferential pricing with national account vendors to purchase or lease new golf course maintenance equipment. We have a great program with Toro and some of the best pricing in the industry due to the amount we purchase from them. We also have a national account program with EasyGo. When we are ready to replace the existing fleet, preferably with electric, EasyGo's RXV Elite is our golf cart of choice. We have around 3,000 golf carts in our fleet, and less than 10% of them are gas. Mayor McDonald asked how he felt about private carts. Mr. Ballum said it is not very common with public golf courses, but given that it is something that is ingrained here, we can work with it. I think we could grandfather those carts in as currently allowed, and not allow new carts over time. A challenge with privately owned carts is that it is hard to police where they go. That's the balance we have to manage through.

Mayor McDonald asked what incentives you have to improve performance. Are there going to be flat fees? What is the revenue share, and the performance bonuses? Mr. Ballum said we are proposing a base flat annual fee that does not escalate over the term. We would have a percentage of positive cash flow from the property as an incentive fee. A $100,000 base fee is on the lower side of a management contract. We believe we can come in with a lower fee because we believe there is upside. That also eliminates the need for any escalation in the guaranteed base fee, because we believe we are going to be able to deliver for you and participate alongside the City. Mayor McDonald asked if there were performance bonuses other than the incentive fee. Mr. Ballum said the only folks who would have a performance bonus are on-site management staff as part of their compensation structure.

Mayor McDonald asked what the transition from the current contractor to your company looked like in the timeline. Do you keep current staff for food and beverage? What is the City's responsibility to make this a seamless transition? Mr. Ballum said we would very much like to work with the current operator and interview his team and staff to join our company. We could get a transition done in as little as 30 days. I think we would need the City's help interviewing any City employees who work on the course maintenance staff, should they wish to join and meet the requirements. We have a full human resources department behind us and are very capable of posting jobs, assigning temporary personnel, and ensuring a timely transition.

Commissioner Burnett asked if any courses were managed without maintenance. Mr. Ballum said no, we do not. Commissioner Burnett asked why it was important for them to have maintenance. Mr. Ballum said it is the number one product of the facility, and all other departments rely on the success of the golf rounds. That all relies on the quality of the golf course maintenance. We feel we need to be in charge of that. Otherwise, our other businesses would be too at risk. It would not be a viable bet for us to take on operations that rely heavily on someone else's expertise or lack thereof. Commissioner Burnett said our golf course needs heavy work. That is the number one topic among golfers. Is that a dealbreaker for you all? Mr. Ballum said it is not a dealbreaker. Mr. Lilleberg said the irrigation system is the most important thing, and will be what keeps the turf viable. What you have built is very nice, and I see a lot of potential in areas that do not have grass now to turn natural. The goal is a sustainable and economical approach to getting the course to standards that will hold repeat customers. Mr. Ballum said to get to the point, it is not a dealbreaker for us. It is a challenge. Commissioner Burnett said we are about to recede on the City's side. If

you got the contract, how would you go about that? Would you shut down all 9 holes for 6 weeks, then open up and shut down another 9 holes? Or would you just rope off certain areas? Mr. Lilleberg said the plan would involve discussions between our leadership and you all to figure out the best way to continue bringing revenue in and also improve the product. I do not think we need to close, but there would be some temporary obstructions for carts. Closing the course is not what we want. Mr. Ballum said they understood the risk in running golf courses. We bring that mentality to the table in our golf contracts. We want to limit disruption to the golf course's ability to generate revenue. We have experience in rerouting folks and doing things in phases to minimize the impact on the public, but still achieve results over time. We would not look to close the golf course for grassing.

Commissioner Pattillo asked if electric carts with GPS are a must for us. Mr. Ballum said no, but it is a nice option. They have no emissions and do not require oil changes or petroleum products. They are also quieter for our neighbors. It would be a decision we would make together, and the City would have the ultimate final say because it is a financial decision.

Commissioner Pattillo asked if control of the maintenance was a must. Mr. Ballum said that it is a must. Commissioner Pattillo asked if opening seven days a week was a must. Mr. Ballum said he thought it was as a business practice. Commissioner Pattillo asked if there were any other musts. Mr. Ballum said no. I am assuming the City owns the existing maintenance equipment and the cart fleet. Mr. Bradley said not the carts. Mr. Ballum said we would need to come up with a solution for the carts, like leasing. Having the maintenance equipment is a must in the current market. There is usually a six to eight month lead time in ordering new golf course maintenance equipment.

Commissioner Tapley said tournament play has been important in this community for years. What is your take on tournament play and leagues in your structure? Mr. Ballum said it was particularly important for municipal golf courses. We have a lot of clubs and leagues we cater to. They are active golfing residents that we do want to cater to. We are very much in favor of that. We would like to grow the number of tournaments, but we would like to balance that so as not to interrupt resident play. My understanding is that Desert Lakes used to do a lot more tournaments than it currently does. There is likely an opportunity to do more. We are very much in favor of it.

Commissioner Tapley asked if there would be a golf cart fleet. Is that something you think the City will have? Mr. Ballum said yes. Ultimately, the golf cart fleet in a management contract would be an expense of the City and built into the projection. So the question is, do we do a lease or an outright purchase? The golf carts would be assets of the City.

KemperSports

Vice President of Business Development Josh Ward, Regional Manager Michael Russ, and Painted Dunes Golf Course General Manager Michael Singleton gave their presentation.

Mayor McDonald asked them to show a course like ours that they have improved. What were the numbers before and after for revenue growth, rounds played, expense control, and timelines? If you want to use Clovis, that is fine. Mr. Russ said we began 2020. That was when we started working with the club. Their profit line was a negative $417,000, which was all being subsidized by the city to just keep the golf course afloat. At the time, their revenue was about $685,000, and rounds were at 21,500. As of now, we are projecting $168,000 in profits for them in 2026. Revenue jumped from $685,000 to $2,200,000, and rounds went from 21,500 to over 35,000. Most of this was attributed to course conditions. Clovis isn't easy to bring people into, but we found an eager superintendent who worked with our agronomy team and has become a superstar. That is a key part of the success. Mayor McDonald asked what the timeline was. Mr. Russ said the timeline was over six years.

Mayor McDonald asked what authority they needed from the City, and what they wanted to stay with the City, as far as things you need on the golf course. Mr. Ward asked if this was for the maintenance side of things. Mayor McDonald said it was for pricing control, staffing decisions, vendor selections, and private carts. Mr. Ward said want to have great communication and be a partner with the City. We want to come to you and say, here is what we think, what do you believe, what do we have to enact, and then we take that back to create a plan. Pricing is an example of that. We work with municipalities in a vast array of different ways. Some we control pricing, others the city council controls pricing. We can do either one. For the rate question, that is a conversation that needs to happen. We certainly want

input on that. From a maintenance perspective, we would like to have some type of control over the product. We want to be able to price that accordingly and ensure we can fix the course or do things that need to be done. Mr. Russ said staffing decisions are about finding the right service mentality. We have an array of vendors with whom we have negotiated pricing, and that gets passed along to each property. In terms of private carts, every property is different. They can reduce the need for a greater cart fleet. We have many properties with privately owned carts. There is no need to move away from that type of program if it is currently working.

Mayor McDonald asked what incentives they had to improve performance. Are they paid by flat fee, revenue share, or performance bonuses? Mr. Ward said regarding incentives, we put in the proposal that incentives were to be determined. Our job is to work with you to find the best approach for that. Certain metrics are more important to some cities and communities than others, and we want to understand what your most important metrics are. Typically, an incentive structure for us works by a portion of net operating income or total revenue. We will work together to find those metrics. Many properties do survey results like total revenue or how much programming we did. What was our actual utilization with youth camps? How successful were we? We are able to look through different KPIs to understand these metrics, and then say what the potential pool is. That pool would be a percentage of the net operating income of total revenue.

Mayor McDonald asked what the transition from the current contractor to your management company looked like in terms of timeline. Would you keep the current staff for golf operations and food and beverage? What is the City's responsibility to ensure this is a seamless transition for the golfing public? Mr. Ward said we want to ensure that staff feel welcome and that they understand they have a place to be. We will offer employment to every staff member there today. We have a 99% retention rate with the staff we are transitioning. Timelines can vary. We are able to transition in as little as two weeks, but the longer the transition is, the more successful it usually is. We will bring a group of people to the property to start engaging with the staff. We want to let them know what pay and benefits look like. We usually do a one-to-one match. They have been doing a good job with the golf course, and we want to keep that continuity. Our checklist is to understand all the different reporting that have come in over the years. We want to really break this down to ensure nothing is missed. That is what allows us to have successful transitions. We will have over a dozen people on-site to do that.

Commissioner Burnett said maintenance is a big issue among the golfers. Why is it important for you to have the maintenance part of it? Mr. Ward said the product of the golf course is vastly important. Pricing and amenity spending come directly from the product. We need to make sure the product is in a good spot. We need to understand the fine line of what is wanted by this community. When we find that, we need to make it repeatable. By us controlling all those factors, it is also allows pricing to be implemented in a more favorable way because of our national buying power. We can really compare and understand all the pieces going in, and complement each one effectively. Commissioner Burnett said a majority of golfers would say that just progress is good. Regardless of the course conditions, we are always out there playing. We support the golf course no matter what. Mr. Ward said we agree. If we had not done that, we wouldn't have a tenure with clients over ten years long. Our brand is important to us. Everything we do is custom.

Commissioner Burnett asked if they managed any golf courses where they did not have maintenance. Mr. Ward said we do, at the Portland Golf Course in Portland, Oregon. We have partnered with five of their courses up there. It is a bit of a fight, but we have a structure to work within those boundaries. Commissioner Burnett asked what the relationship with that was like. Mr. Ward said we have a very good relationship with that city, and we are doing very well financially. It is a well-functioning team, and we have the right people there. That city understands we cannot control all the different pieces. Everyone understands it could be a lot better if we controlled the maintenance there. Two of the golf courses are sub-par, and our rates and utilization are struggling, but they are better than they have been. We are doing programming and working around it for solutions. We built that relationship under restrictions, but it could be better, and we are always having conversations with that city. Commissioner Burnett asked if they had a seat at the table. Mr. Ward said they do. We both have to mutually align on different pieces.

Commissioner Pattillo said across all your facilities, percentage-wise, how many of them have electric carts with GPS attached? Mr. Ward said he did not know the number, but we are significantly moving more towards electric carts. Mr. Lilliberg said there is a cost associated with those that get passed through in what you are charging for car rental. You just have to weigh it to see if it is beneficial. Commissioner Pattillo asked if a minority of those facilities had gas

carts. Mr. Ward said as of today, yes. Commissioner Pattillo asked if it was a flexible deal. Mr. Ward said yes. We do not have to go down a particular path. Commissioner Pattillo asked if the majority of facilities were open 7 days a week. Mr. Ward said yes. Commissioner Pattillo asked if they had taken a tour of Desert Lakes. Mr. Ward said they were there for a site visit, and another time to look around. Commissioner Pattillo asked if they saw anything out there that wouldn't fit in the Kemper model. Mr. Ward says nothing scares him about that. We are confident in our abilities. The infrastructure is there. We still need to evaluate the team.

Commissioner Tapley said one of the projects the City is looking at is realigning a few ponds. How would that interfere with your management? Mr. Lilliberg said he did not think there was any interference. It gives another area we can oversee. We have experts we can lean on. That is nothing new and is part of the life cycle of the course. Mr. Ward said it is our job to balance closures with construction work so the community stays open as much as it can.

Commissioner Tapley said we are looking at a thirty to ninety day transition period with Mr. Dalpes contract being up on June 31st. Is that correct? Acting City Manager Hernandez said June 30th. Commissioner Tapley asked how we transitioned from G&L Golf to the new management company. Acting City Manager Hernandez said once you make the selection, whether that is tonight or another night, we will start the next day. We would start getting the management contract going, go into negotiations, and then we would work with Mr. Dalpes and the new management company to do the transition. All three companies are involved in a transition plan with Mr. Dalpes and the City. I believe ninety days is a good time frame to get going. Commissioner Tapley said if we do the maintenance and they manage the golf course, how do we co-exist. Acting City Manager Hernandez said that it is contract negotiation. The golf course superintendent would have to be right there with them. Whatever decision we make needs a good working relationship between us.

Mayor McDonald called a five-minute recess at 9:46 PM. The meeting resumed at 10:00 PM.

PUBLIC COMMENT

Scott Frederick said he was a retired military member and property owner at the golf course. I retired here because of the golf course, the course community, and the people of Alamogordo. All of this has been in jeopardy the past few years. You have competitive interests with the community. From pilots, maintainers, a pro shop that wants to let golfers play golf, and a superintendent and grounds crew that want to get the golf course in the best position. The wing at Holloman solves problems between operators and maintenance by having one person in charge who makes decisions. You are the elected officials and one voice that makes a decision. The hardest choice as a leader is to turn back when the road is going in the wrong direction. I urge you to put this aside and not vote on it tonight. There are three experts who presented this evening, and a fourth expert who has run the Pro Shop and taught my daughter to play golf, who has told you that you need to have the entire pie under the control of one organization. When you awarded the bowling alley to the Inn of the Mountain Gods, you did not tell them to run the alley while we maintained the lanes. That is what we are doing at the golf course. We had some transparency last year when we started this conversation. I sent emails to you last year, or previous versions of you, and got a mixed review. Our membership has gone from over two hundred and fifty to less than one hundred and eighty this year because of course conditions in the foreseeable future. Please table this vote. Put out an RFP that includes maintenance. One expert said they will not do it. Another said we have an alpha and bravo, and strongly suggests bravo. The third said they can do either. This is a short-term solution, and bad decisions are made with short-term thinking. Continue the contract if needed. Kick it out, bring the maintenance under one person who runs this. Make the smart, tough decision as our leaders.

CITY MANAGER'S REPORT

Acting City Manager Hernandez made the following comments:

1. We are doing well with development in Alamogordo. Things that have gone through TRC and are getting approved are a new Domino's North in the Fairgrounds Subdivision, a new Whataburger on South White Sands next to Pizza Hut, and the COPE plans for the new COPE building. Ollie's Bargain Outlet is opening at Big Lots. A Five Below is opening soon, and a Take Five in the Fairgounds Subdivision. As far as homes, we are working on Phase II of Somerset with French Brothers for 50 or 60 homes. Hermosa del Sol is on its way with about 20 lots, and the Granada Subdivision is about 30 to 40 lots.
2. With a generous donation by Miss Lynn Rice, the Zoo has a brand new Reptile Learning Center. It looks amazing. It started off slow, but people are enjoying the late night at the Zoo. Zoo Manager Maes will be presenting at the April

14th meeting to talk about more Zoo stuff going on. We are looking at getting accreditation back.
3. We are doing two more workshops for the subdivision. They will be here in the Commission Chambers. I sent invites for Monday. It is optional. It's the last workshop we will have before bringing it to the Commission in April.

REMARKS AND INQUIRIES BY THE CITY COMMISSION

Commissioner Hernandez said he has a neighbor who lives at 508 on 5th Street. When they did the sidewalk project, they had an approach that was removed, and they put a regular curb and gutter back in. He asked to see if there was a way to get that replaced to the original standards. Most of you guys got a call from 1801 Oregon Street. I think we need to revisit that. I have not seen the plans, but on the east side of the road, a lot of curb and gutter was removed and replaced. According to the homeowner, they did not have that water issue, but now they do. On the Oregon project, there is no business traffic control. There is no way to know how to get to those businesses on Oregon Street. They are suffering. I tried to get to one, but couldn't get there easily as they are getting ready to pave and stuff. I am pretty sure the contractor had traffic control in their budget. If they did not, on future projects like this, we need to ensure that it is in place. In any other town, when they restrict access to businesses, they have signage that says go this way. It is really hurting these small businesses. I heard a trash truck at 5 AM slamming the dumpsters. I know we have an ordinance. I am not sure if this fits them, but 5 AM is ridiculous. Southwest Disposal's card says you have to have your can out by 6:30 AM. Our noise ordinance is from 7 AM to 10 PM. We need to look at that. I am not picking on Southwest, and I do not know whose truck it was. It is pretty much daily, but 5 AM in a residential area is crazy. Last Friday, I came in to finalize my paperwork for onboarding. As I was standing there, a constituent told me about his water bill that went from $74 to $124. I asked if he had checked for leaks, and he said he did. I asked him to give City staff the opportunity to look at it, and he said when? They are closed. His biggest complaint wasn't the water bill jumping; it was that there was no one to talk to. This was at 10 AM. I think that is a bad deal. He was on foot, so he had to leave and come back after 1 PM. The other complaint is that when he would come back, there would be a line. We really need to address that quickly.

Commissioner Pattillo said a constituent was sent a text thanking me for addressing his concerns about trash overflowing in the New York Avenue cans. So, thank you. Acting City Manager Hernandez said thank the Parks Department.

Commissioner Burnett said there were weeds in the ditch at Desert Lakes Road. Let's get on those before it gets out of hand. Commissioner Hernandez said 1st Street and White Sands are also bad at the first median.

CONSENT AGENDA

4. Approve the minutes for the Regular Commission Meeting on March 10, 2026, and the Special Meeting on March 17, 2026. ***(Rachel Hughs, City Clerk)***

5. Consider, and act upon, Resolution 2026-09 requesting written approval from the Local Government Division of the Department of Finance and Administration, State of NM for the revised budget numbers computed as of March 24, 2026. ***(Evelyn Huff, Finance Director)*** **(Roll Call Vote Required)**

6. Consider, and act upon, adoption and final publication of Ordinance 1722 authorizing the delivery of a loan agreement and intercept agreement for $12,000,000 for the construction, equipping and furnishing of a municipal natatorium. *(Evelyn Huff, Finance Director)* **(Roll Call Vote Required)**

Commissioner Hernandez said to pull Item 6.

Commissioner Robinson moved to approve as amended with Items 4 and 5.
Commissioner Burnett seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

ITEMS REMOVED FROM CONSENT AGENDA

6. Consider, and act upon, adoption and final publication of Ordinance 1722 authorizing the delivery of a loan agreement and intercept agreement for $12,000,000 for the construction, equipping and furnishing of a municipal natatorium. *(Evelyn Huff, Finance Director)* **(Roll Call Vote Required)**

Commissioner Burnett asked when this project would start. Finance Director Huff said the most recent plan is the 60%, and they are working on getting to 90%, coinciding with about the same time we close on the loan. I think it will be ready to bid by the end of the summer, around August or September.

Commissioner Hernandez asked if there was an Engineer's Estimate or anything. Finance Director Huff said they have been instructed many times that it needs to be a $12,000,000 pool. When they are finished with the final set of plans, we will do the final EOPC. If it does not come in at $12,000,00, they will have to go and modify the design so that the EOPC will be $12,000,000. Commissioner Hernandez asked what the total dollar amount available for this was, with the 105 and the $12,000,000. Finance Director Huff said when we rededicated the tax, we moved $4,000,000 of fund balance from 105 to the new 127, which was specifically for this. That was $16,000,000. Of that, we have spent around $1,000,000 for the design and another $500,000 for all the tie-ins. The pool is shifting, so we had to shift the plumbing tie-ins. There are other small things that have come up to $650,000. So far, they have spent $1,650,000 on this, which leaves the balance of $2,300,000. That is what we are building as the contingency. The perfect thing would be if we design a $12,000,000 pool, then put it out to bid, and we get it within that range. Then that contingency can be used to outfit or make any differences. We try to limit change orders, but they happen. Commissioner Hernandez said during his selection process, something that came up was the fiasco of the bowling alley. Everyone can look at the voting record for that, and mine was clear. Finance Director Huff said she was here during that. It turned into a design, then a design-build, then back to a design, then back again to a design-build. We have been consistent through this process with the same architect who did all the conceptual, now doing all the design. Commissioner Hernandez said the people who spoke during my selection process had a serious problem with the bowling alley. This is not much different. $16,000,000 is a lot of money and twenty-five years of financing. I do not think I can support that. I support the pool and its function, but that is a lot. The feedback I received during my selection process tells me a big story. Finance Director Huff said for perspective, I know you watched Commission meetings and were involved when you weren't on the Commission. We looked at as many alternatives as we could to building a new pool. We looked at building a cover over the current pool, and we looked at acquiring a new bubble, but the Environment Department said we couldn't do that again. We really had the pool checked out by structural engineers and experts, and they said we could not build over the current site. It would not support it. We looked at many options to utilize the facility we currently had, but when it became clear that was not an option, we started down the path of designing something new. Unfortunately, as much as I would like to save up and have a cash fund, at no point would we be able to do that. It just keeps getting exponentially more expensive, and we would never get up to that threshold. Commissioner Hernandez asked if the contingency is around 14% to 15% percent. Finance Director Huff said yes, I have $2,500,000 in contingency. Commissioner Hernandez said he was not comfortable with that contingency, and the comment of "...I told them I need a $12,000,000 pool" concerned him. Finance Director Huff said I have met with the architect multiple times and have been clear about the situation. If we get to the point where plans are complete, he does the EOPC, and says it is $14,000,000, then we would have to go back to the drawing board. I will not put it out to bid without an EOPC that says $12,000,000. Commissioner Hernandez said that was another concern. You are going to value an engineer to death, and then you get a smaller pool that isn't what the people think they voted on, because they do not know what they voted on. Then again, we did the wrong thing. Finance Director Huff said all she could do was continue to try to do the right thing. I do not expect to change your mind; I want to ensure you understand everything we have done behind it. The other thing is, because we are putting this out to bid, it is a competitive bid. It comes to the Commission for final approval. If it comes to you and you are not comfortable with what you are seeing, you do not have to approve. You can tell us to put it back out for redesign. At the end of the day, you have the final say on that. We are not awarding a contract without your approval.

Mr. Muirhead said given that this is a debt of the municipality, it requires a 75% majority of the voters to approve the ordinance. A simple majority wouldn't approve it. You would need six positive votes of the seven Commissioners. Commissioner Hernandez said if he approved this tonight, he would be very critical of the process forward, given the backlash he had received. Finance Director Huff said that was understandable.

Commissioner Pattillo asked for a summary of why it landed at $12,000,000 and the factors for that. Finance Director Huff said when the initial idea came about of rededicating the tax, we gave ten years of historical numbers to John Archuleta, who is our Financial Advisor with Bosque Advisors. He asked for proof of the GRT, and we gave him the information. They ran the calculations, came back, and gave us six different scenarios of different amounts and years. This does not fit within a thirty year timeframe because most pools do not have a thirty year lifespan. We stayed more

in the 2025. We did $11,000,000, $12,000,000, and $16,000,000, brought it to the Commission, and asked where everyone felt comfortable. We did that in conjunction with conceptual design submittals from ASA Architects, who are handling the design. We presented the design with the debt packages that we could have. The Commission at that time felt comfortable with the $12,000,000 and twenty-five years.

Commissioner Hernandez said at this time, with 60% drawings, what size is the pool? Is it an Olympic-sized pool or smaller? Finance Director Huff said it is not an Olympic-sized pool. Eight or ten lanes. Commissioner Hernandez said so it can be used for competition. Finance Director Huff said it can. We made sure it was competition-approved. Commissioner Hernandez asked if the fee schedules for the pool had been looked at. Finance Director Huff said that it has not been discussed. Commissioner Hernandez said that was another concern. Can we use it? Finance Director Huff said that the fee schedule is the Commission's decision. You set the fee schedule. That will be another option that comes to you as well. Commissioner Hernandez asked when she thought it would be at 90%. Finance Director Huff said they want to be at 90% by the beginning of May, then do the final finishing touches in the June to July timeframe.

Commissioner Pattillo moved to table this matter for another meeting.
Commissioner Tapley seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

Mr. Muirhead asked the Commission to let him republish this if you are going to defer. April 14th is the next meeting. Mayor McDonald said April 14th, then.

NEW BUSINESS

7. Consider, and act upon, the award of the RFP 2026-001 Golf Course Management and Operation Services to one of the following qualified vendors: Maxim Golf, American Golf, or Kemper Golf Management. ***(Belinda Bass, Parks and Recreation Director)***

Parks and Recreation Director Bass asked the Commission to choose the next management company. Commissioner Pattillo asked her to explain the narrative of how the RFP went out and how we selected the bids for that. She said the RFP was developed, and we had lots of input based on what is lacking in current contracts and things we wanted to ensure were in there. Lots of other golf courses were consulted, and we reviewed the RFPs that they put out. We spoke to other golf courses to find what worked for them, what they did not like, and what they wished they had put in their RFPs. It took several months for us to build that. Then it was submitted. Management companies contacted us and wanted to be put on the list to ensure they got a chance to bid on it. Then it was published nationwide, so anyone could bid on it. I do not recall how many people were on the review committee, but there was a variety, along with an outside person, a golf professional, who is unrelated to the City.

Commissioner Pattilo asked how we settled on the scope and arrived at the different options for this evening. Parks and Recreation Director Bass said our directive was to go out for RFP for management of the Pro Shop and the restaurant. The scope of work was based on things we wanted to see happen at the golf course, like improvements. We built the whole thing based on what we learned from other golf courses and their RFPs, the things we took from the town hall meetings, input and calls from golfers, and one-on-one meetings.

Commissioner Pattillo asked how maintenance inclusion went down. Parks and Recreation Director Bass said maintenance inclusion was not put in there. I do not know if you received the emails regarding that. Maintenance was not included because we have put several million dollars into our new irrigation system. We have put a lot of time and money into training and developing our own workforce. We also have things coming up in the future, like realigning the ponds in the back nine. The golf course is at the point where we have put a lot of money into getting the products and developing the things we needed to. Now we are putting seed in the ground to get grass growing again. Last year, we tore up the course because we put in the new irrigation system. Commissioner Pattillo asked why one of the proposals contained an option A and B for inclusion or not included. She said she could not speak for the people who put in. I do not have any control over who submits the proposal. We specifically put in the RFP that it was just for the management of the Pro Shop and the restaurant. Acting City Manager Hernandez said that the

Commission's direction at the time was to go out for RFP for a management company for the Pro Shop and the restaurant. Commissioner Burnett said I asked for you to send it out two ways, with and without. That was before we were writing the RFP. Acting City Manager Hernandez said, but the Commission's decision was as a whole. You as one Commissioner, told me after the fact. Commissioner Burnett said I told you in public. It never came to us as an option after I asked. Acting City Manager Hernandez said you could have put it as an option. I brought it back to you. I think someone else also asked if we were not going to put that in as an option at this point. However, if that is the Commission's direction, we could.

Commissioner Pattillo asked if they understood why he still had questions after the presentation this evening. Parks and Recreation Director Bass said she could assume, but she did not watch the presentations. Commissioner Pattillo said that, based on the presentations, maintenance inclusion or not seems to be a big factor for all three vendors and how they would stage their approach. I saw one vendor that put in an option and two that did not. I am curious about the scope. Do we have an idea what that is? Acting City Manager Hernandez said once the RFP went out, we could not speak to any of the potential bidders. I do not know why they put it in there. I do not know if they spoke to someone from the golf course. That isn't a question we can answer, but you are free to speak to any of the three companies.

Commissioner Burnett said if we do not vote on this tonight, or if we vote to include maintenance, does that have to go back out for RFP? Acting City Manager Hernandez said she would think we would have to go back out to ensure all bids are equal for the same reasons. One included as a must, the others as maybes. To ensure bidding is equal, fair, and consistent, it would have to go back out. Commissioner Burnett said if we sent it back out for RFP, how long are we looking at? Acting City Manager Hernandez said the minimum we are allowed to do is 14 days. Parks and Recreation Director Bass said we would also have to rewrite the RFP to add that in. Commissioner Burnett asked if it would be 30 or 45 days before it went out. Acting City Manager Hernandez said it depends on the direction. Just adding the maintenance piece back in there? Commissioner Pattillo said it was an important cost consideration. Acting City Manager Hernandez said we would ensure we meet paper deadlines, but I do not think it would be 30 days. Parks and Recreation Director Bass said her concern was that this was grant-funded. If we send the maintenance out, we will be turning things we received grant funding for, to build and develop, over to a third party. I am not sure where that falls into things. There are rules. Commissioner Burnett asked if one of the contractors could clarify how that funding works with them and through a city. Did their grants stop coming in because you took over the maintenance aspect? Acting City Manager Hernandez asked if this was future or existing grants. Finance Director Huff said that for State money that has already been spent, it is fine. It would stay a City asset. We can enter into a contract for somebody to keep that. We, as a city, would not be able to sell it for ten years. In terms of the money that has been put into the irrigation system, that has to be managed only by the City. Commissioner Burnett asked about future grants. Finance Director Huff said it would be something we have to disclose if it were something submitted to the legislature that said we are asking for capital outlay funding. We would have to disclose that it was under a management agreement, but it would still become our asset. Parks and Recreation Director Bass asked about the equipment that had been bought. Finance Director Huff said if we bought equipment with that, we would have to do a lease agreement because the equipment would have to stay in our name. As long as it remains a City asset, and is not disposed of in the 10-year timeframe, we are fine.

Commissioner Pattillo asked for a summary of the financial impact the City would face if we tabled this or went out for RFP for maintenance inclusion. Acting City Manager Hernandez asked if the direction was to table and go out for RFP. Commissioner Pattillo said if we do this, I think we will table. If we go back out for RFP, I would like to know what our financial ramifications would be as a City. Commissioner Hernandez said I think we need to include maintenance. What do we do? Do we table this? Give direction to go out for RFP again? City Attorney Mori said both of those options are available to the Commission. You have a quorum here. If you want Mayor Pro-Tem Rardin to be part of that conversation, I suggest you table this. There are enough members here to take an action. It is up to whoever makes the motion to choose at the time.

Commissioner Hernandez moved to go out for RFP to include complete maintenance and operations of the golf course.
Commissioner Burnett seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

DRAFT

Acting City Manager Hernandez asked if another full set of presentations would be required. Commissioner Burnett said it depends on whether more companies bid. How many bidders are you qualifying? Acting City Manager Hernandez said we took the top three. Five showed up, but four put in. Commissioner Burnett said so one didn't qualify. Finance Director Huff said they had a low score. Commissioner Burnett said if there are management companies other than these three, I would say to just hear the other ones. Commissioner Tapley asked if it could be put out with just the three here to adjust their proposals. City Attorney Mori said I would not do that. It is going for a new RFP, so we have brand new parameters, even if it is just a slight addition of adding maintenance. I would not limit it to just the three with the top score here. Commissioner Tapley asked how that affected the 60 to 90 day transition period and June 30th. Acting City Manager Hernandez said we cannot go back out. We cannot extend G&L Golf anymore. We already asked the State to extend it by a year over what was allowed. You are closing in on that. All three companies here said more time is better, but also that they can do it in a shorter time frame. Finance Director Huff said the earliest we could advertise it is next Saturday. That would be with a rewrite of the RFP language to include maintenance. That would have to get done as soon as possible. Commissioner Burnett asked if that meant just a subsection needed to be added. Finance Director Huff said yes. All the rest of the language is there. We just need RFP language for the maintenance part. With this one, we advertised it twice, gave them a mandatory walk-through, and then additional time after the walk-through. If you are not looking to have presentations, this can be quicker. Then we are just bringing proposals and not having people coordinate travel. I think thirty days at least.

Commissioner Pattillo asked for an option for what maintenance would look like, whether they want to throw two proposals. Acting City Manager Hernandez said so like a bid alternate, where to have it with, and a bid alternate without? Commissioner Pattillo said the companies could choose to include or not.

Commissioner Tapley said so this is going back out on April 4th. It would end on April 25th. Acting City Manager Hernandez said we would open bids on the 27th. Commissioner Tapley said we would see it at the first Commission Meeting on the 12th, which is during Budget. Finance Director Huff said after Budget. Budget is the first week of May. Acting City Manager Hernandez said that's the 4th through the 8th. Commissioner Tapley said so the first we would see this on the 12th, and we would have a forty-five day transition period. Acting City Manager Hernandez said you could call a Special Meeting, or we could put it in with the Budget. Finance Director Huff said it could go on a Budget Meeting. There is no reason it could not have a voting item on it. It just needs to be a special meeting rather than a hearing. Commissioner Tapley said with everything I am hearing, 60 to 90 days is a good transition period to make this successful. Finance Director Huff said another option is to have another person who could operate. It cannot be G&L Golf because of the procurement restriction, but you could enter into a professional service agreement with another entity to serve as an interim. You would most likely be talking 60 days, if assuming maybe $10,000 a month, that would be under the professional services procurement threshold. Commissioner Tapley asked if 45 days was the bare minimum that would work for transitioning. Commissioner Hernandez said that would be for a full transition. We could have the main part of the transition done and work through the rest of it.

Commissioner Tapley asked if the presenters would come up.

Vice President Ward of KemperSports said a forty-five day transitition is absolutely possible. I want to bring attention to the contracting period. If the 12th was the selection point, then we would have to go through a negotiation process, which takes a couple of weeks with a municipality, in our experience. Usually, the municipality does not want us to be heavily engaged at that time until we feel it's a very good point and will get signed. As long as the contracting period goes quickly, 45 days is doable.

Senior Vice President Ballum of American Golf said a suggestion is to ask the proposers to include a management contract, one that they have already entered into with another municipality. The City could view that and decide if that was something they would want to enter into. It would shorten the contracting period. I want to bring to everyone's attention that two of the three bids have been publicly published. Everyone knows what two of the three have bid. I would ask that the third bid be published in full disclosure. Then we would all be on a level playing field for the subsequent response from the reissue.

CEO Minnis of Maxim Golf said we are ready to do whatever we need to do.

8. Consider, and act upon, appointing three board members to the Otero County Solid Waste Authority (OCSWA) Board. ***(David Nunnelley, Utilities Director)***

Finance Director Huff said this is also known as the Landfill Board, which meets once or twice a year in conjunction with the Green Tree Lincoln County Board. This is the oversight board for the combined effort we have at the Landfill. We are the Operating Manager, and as the operating entity, we get five seats on the board. Historically, those have gone to the City Manager, the director who oversees operations, and three members of the Commission. Last year, and in previous years, it was former Mayor Susan Payne, former Commissioner Sharon McDonald, and former Commissioner Josh Rardin. When the former Mayor left, that left a vacancy. Historically, when we have a vacancy, we just reappoint the three Commission seats. The meeting for this year is on Thursday at 6 PM. If you want to be on the board, you can attend that meeting, or you could give a proxy if you get appointed. It will be at Dudley School. Mayor Sharon McDonald said she would recommit to this. Finance Director Huff said you could also sign up the person who is not here. Mayor McDonald said she signed up Mayor Pro-Tem Josh Rardin. Commissioner Burnett said he wanted to do this, but could not be here. Finance Director Huff said he could proxy. Commissioner Burnett said he would do it. Acting City Manager Hernandez said the Mayor Pro-Tem is out of town, so we will not be able to get his proxy. Finance Director Huff said we could get this over the phone.

Commissioner Robinson moved to appoint Mayor McDonald, Mayor Pro-Tem Rardin, and Commissioner Burnett. Commissioner Hernandez seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

9. Appointments to Boards and Committees. ***(Sharon McDonald, Mayor)***
Mayor McDonald appointed Manuel Gonzalez Jr. to his seventh term on the Airport Advisory Board, and Lori Armstrong to her fourth term on the Parks and Recreation Board.

ADJOURNMENT

Commissioner Burnett moved to adjourn at 10:59 PM.
Commissioner Tapley seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

ATTEST: Mayor Sharon McDonald

City Clerk Rachel Hughs

(Prepared by Dylan Aleshire, Deputy Clerk)
Approved at the Regular Meeting held on April 14, 2026.

DRAFT

CITY OF ALAMOGORDO, NEW MEXICO
CITY COMMISSION SPECIAL MEETING MINUTES
5:30 PM, DONALD E. CARROLL COMMISSION CHAMBERS
April 7, 2026

SHARON MCDONALD, MAYOR
JOSHUA RARDIN, MAYOR PRO-TEM
BAXTER PATTILLO, COMMISSIONER
STEPHEN BURNETT, COMMISSIONER
WARREN ROBINSON, COMMISSIONER
AL HERNANDEZ, COMMISSIONER
MARK TAPLEY, COMMISSIONER
STEPHANIE HERNANDEZ, ACTING CITY MANAGER
DARRELL MORI, CITY ATTORNEY
RACHEL HUGHS, CITY CLERK

CALL TO ORDER & ROLL CALL

Mayor McDonald called the meeting to order at 5:30 PM. Roll Call was taken by the Deputy City Clerk.Commissioner Tapley was absent. Commissioner Burnett attended by phone. Deputy City Clerk Aleshire announced there was a quorum present

INVOCATION & PLEDGE OF ALLEGIANCE

The Invocation was given by Commissioner Robinson, and the Pledge of Allegiance was led by Commissioner Hernandez.

APPROVAL OF AGENDA

Commissioner Robinson moved to approve.
Commissioner Hernandez seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

EXECUTIVE SESSION

1. Adjourn into Executive Closed Session in compliance with 10-15-1(H)(2) NMSA 1978 (as amended) to discuss: Limited Personnel Matters (Hiring of the City Manager). (Roll Call Vote Required)

Commissioner Pattillo moved to adjourn to Executive Session at 5:37 PM.
Commissioner Robinson seconded the motion.
Motion Passed with a vote of 6 - 0 - 0.

ADJOURNMENT

ATTEST:

Mayor Sharon McDonald

City Clerk Rachel Hughs

(Prepared by Dylan Aleshire, Deputy Clerk)
Approved at the Regular Meeting held on April 14, 2026.

DRAFT

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/02/2026 **Report No:** 6.

Submitted By: Rachel Hughs

Subject: Approve the statements related to the Executive Closed Session of the Special Meeting held on April 7, 2026. *(Rachel Hughs, City Clerk)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: The statement is required per the Open Meetings Act.

Background:

Approve the following statements authorizing them to be included in the minutes of April 14, 2026: “The Governing Body of the City of Alamogordo, New Mexico, hereby states that on April 7, 2026, an Executive Closed Session was held, and the matters discussed in the closed meeting were limited only to discuss Limited Personal Matters (Hiring of the City Manager).

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/07/2026 **Report No:** 7.

Submitted By: Troy Orr

Subject: Consider, and act upon, Resolution 2026-09, authorizing acquisition of a decommissioned T-38 aircraft to serve as a static display at the Alamogordo-White Sands Regional Airport. *(Troy Orr, Airport Manager)* **(Roll Call Vote required)**

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Approve Resolution 2026-09 as requested.

Background: The USAF is decommissioning several T-38 aircraft, and there is an interest within the community in acquiring one of these aircraft for public display, especially with the success of the F-4 Gateway Freedom Project. Several of these aircraft have been ferried to Holloman AFB for decommissioning and so the City has an opportunity to obtain one of these aircraft. If approved, the City will be required to assume responsibility for all costs associated with transportation, installation, long-term care, and maintenance of the aircraft. The National Museum of the USAF (NMUSAF) will also require compliance with museum conditions for display, namely that the City will not recommission the aircraft for any reason.

City of Alamogordo
1376 E 9th St
Alamogordo, NM 88310
575-439-4260
575-439-4282 (fax)

1 March 2026

Mark J. Wertheimer
Curator
National Museum of the United States Air Force
1100 Spatz Street
Wright-Patterson Air Force Base, OH 45433-7102

Re: Request for Consideration of a Decommissioned T-38 for Static Display Aerospace Vehicle Use

Mr. Wertheimer,

On behalf of the City of Alamogordo and the Alamogordo-White Sands Regional Airport, I respectfully request consideration for the transfer or loan of a decommissioned T-38 Talon aircraft from the National Museum of the United States Air Force (NMUSAF).

The City of Alamogordo is located approximately ten miles east of Holloman AFB and has a long history of supporting the base and its evolving missions. The City recently completed a project to mount and display an F-4 Phantom II and now seeks to expand its aviation heritage displays by adding a T-38 Talon at the Alamogordo-White Sands Regional Airport.

The T-38 Talon holds significant historical value as the US Air Force's first supersonic trainer and as a critical platform in the development of generations of Air Force pilots, including astronauts. Holloman AFB has operated the T-38 since 1977, beginning with the 479th Tactical Training Wing a later under the 586th Flight Test Squadron following its reorganization 1993. Displaying a T-38 would meaningfully support the City's mission by helping the public better understand its role in pilot training, Cold War aviation history, and ongoing aerospace education.

If approved, the aircraft would be displayed at the Alamogordo-White Sands Regional Airport. The City is prepared to assume responsibility for all costs associated with transportation, installation, long-term care, and maintenance in accordance with US Air Force and National Museum guidelines. We are also willing to comply with any conditions, documentation requirements, or agreements required by the NMUSAF.

We greatly respect the NMUSAF's role as steward of the Air Force's heritage and would be honored to partner in preserving and interpreting that legacy for future generations. Thank you for your time and consideration. We would welcome the opportunity to provide additional information or discuss this request further at your convenience.

Respectfully,

Stephanie Hernandez, Ph.D
Acting City Manager, City of Alamogordo
(575) 439-4855
shernandez@ci.alamogordo.nm.us

RESOLUTION NO. 2026-09

A RESOLUTION AUTHORIZING ACQUISITION OF A DECOMISSIONED T-38 AIRCRAFT TO SERVE AS A STATIC DISPLAY AT THE ALAMOGORDO - WHITE SANDS REGIONAL AIRPORT

WHEREAS, the City of Alamogordo and Holloman AFB have a long history of shared missions and growth; and

WHEREAS, the T-38 Talon has been a staple of Holloman's training and operational test programs since 1977; and

WHEREAS, the United States Air Force is divesting and decommissioning several T-38 Talon aircraft; and

WHEREAS, F-4 Phantom II displayed as part of the Gateway Monument project has been a massive success and has been well-received by the community.

NOW, THEREFORE, BE IT RESOLVED BY THE COMMISSION OF THE CITY OF ALAMOGORDO, that the City Commission hereby authorizes the acquisition of one (1) decommissioned T-38 Talon aircraft for static display at the Alamogordo-White Sands Regional Airport.

PASSED, APPROVED, AND ADOPTED this _____ day of _____, 2026.

CITY OF ALAMOGORDO, NEW MEXICO,
A NEW MEXICO MUNICIPAL CORPORATION

_____
Sharon McDonald, Mayor

SEAL

ATTEST:

_____
Rachel Hughs, City Clerk

APPROVED AS TO FORM:

_____
Darrell Mori, City Attorney

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/09/2026 **Report No:** 8.

Submitted By: Justen Boyle

Subject: Consider, and act upon, approval of Change Order 1, in the amount of $135,750.20, excluding NMGRT, to Crosstown Construction, for waterline replacement and new bypasses, additional concrete work for sidewalk, and additional materials. *(Joseph Samora, Project Manager)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Approve this Item

Background: At the beginning of this project, back in September 2025, the existing redlines of the underground waterline were not entirely accurate. After exposing the waterline on the Lower Reservoir Tank, it was determined that some pipe sizes and materials did not match the plans. This typically happens with old infrastructure and old redlines. To prevent the public from going without water and due to time constraints on this project, it was a necessary Change Order to order additional material to help tie the new line into the lower-height tank.

The 12" bypass was initially proposed for this meeting as a standard change order. However, after tying the new 16" waterline to Upper Heights Tank, we still had continuous water flowing along the old line. It was determined that this area was also an issue from the past. The 12" waterline was connected to the existing 16" waterline, but there was no working valve. So the parts were necessary as an emergency change, not only to provide water to the public but also to prevent it from being wasted as it flowed into the channel.

The 10" to 14" line was another cause of water waste. We were able to complete this line without change, but there is still a broken valve, so this issue will never be fully resolved. Replacing this line will ensure that everything in this location is new and fully functional, allowing the city to move forward on other areas without having to come back and fix the only part that is not new.

Sidewalk — As the city pushes for better infrastructure and enforces sidewalks to be compliant or even poured. The Engineering Division felt it was best to include this change to ensure the City meets all standards.

CITY OF ALAMOGORDO
UTILITIES DEPARTMENT
ENGINEERING

Date: April 8, 2026

CONTRACT CHANGE ORDER

CHANGE ORDER NO. 001

Lower Heights Reservoir to Upper Heights Reservoir 16 Inch Waterline Replacement

PUBLIC WORKS PROJECT NO. 2025-005

CONTRACTOR: Crosstown Construction LLC

OWNER: City of Alamogordo
1376 E 9th St
Alamogordo, New Mexico 88310

THE FOLLOWING CHANGES ARE HEREBY MADE TO THE CONTRACT DOCUMENTS:

CHANGE ORDER LINE ITEMS:

#	Budget Code	Description	Qty	Units	Unit Cost	Tax Code	Subtotal (ex. tax)
1	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Subgrade Prep	16.0	hours	$343.21	NMGRT	$5,491.36
2	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Concrete Pour	1.0	ls	$5,500.79	NMGRT	$5,500.79
3	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Demo	4.0	cy	$60.00	NMGRT	$240.00
4	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Base course	12.0	ton	$35.00	NMGRT	$420.00
5	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Overhead	1.0	ls	$1,747.83	NMGRT	$1,747.83
6	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Additional Material 12" C900	1.0	ls	$35,754.26	NMGRT	$35,754.26
7	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Materials	1.0	ls	$49,375.63	NMGRT	$49,375.63
8	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	10" Waterline	1.0	ls	$27,014.95	NMGRT	$27,014.95
9	CAPT-CONS-WSRL.HC.LO WATER/SEWER RELOCATION.Hard Costs.Local	Vault and hydrant	1.0	ls	$10,205.38	NMGRT	$10,205.38
						Subtotal:	**$135,750.20**
						Total Tax:	$11,114.55
						Grand Total:	**$146,864.75**

CITY OF ALAMOGORDO
UTILITIES DEPARTMENT
ENGINEERING

Date: April 8, 2026

REVISED CONTRACT AMOUNT

1. Original Contract Amount $987,063.14
2. Total Contract Amount Including Previously Approved Change Orders $0.00
3. Amount of this Change Order (increase) $135,750.20
4. Total Revised Contract Amount to Date $1,122,813.34

* excludes New Mexico Gross Receipts Tax.

The contract performance period is hereby increased by an additional 90 calendar days. The work covered by this order shall be performed under the same terms and conditions as that included in the original contract.

CHANGE ORDER ACCEPTED AND APPROVED:

BY: _____ _____
Contractor Date

CHANGE ORDER APPROVED BY CITY MANAGER:

BY: _____ _____
City Manager Date

BY: _____ _____
City Attorney Date

Crosstown Construction & Trucking, LLC
2500 Motel Blvd.
Las Cruces, NM 88005
575-523-6101

Change Order

Project Name	Lower Heights Reservoir to Upper Heights Reservoir	**Client**	City of Alamogordo
Change Order No.	RFI No. 11	**Company Name**	City of Alamogordo
Requesting Party	Crosstown Construction		
Subcontract No.		**Address**	
Date of Request	4/1/2026	**Phone Number**	

Description of Changes	1)RFI NO.11 - 24" Pipe Spool & Fitting Need to be Replaced
Reasons for Changes	
Additional Information	

Materials	Description	Quantity		Unit Price	Amount
Core & Main	24" FLG, MS Fittings				$ -
	ID Pipe, 45' Fitting				$ 20,057.86
Back Fill	Bedding Material	12	Ton	$ 40.00	$ 480.00
					$ -
					$ -
				Total	**$ 20,537.86**

Labor	Hours	Unit Price	Amount
Operator x 2	80	$ 35.51	$ 2,840.80
Labor x 2	80	$ 26.40	$ 2,112.00
			$ -
			$ -
		Total	**$ 4,952.80**

Equipment	Hours	Rate	Amount
Back hoe	30	$ 100.00	$ 3,000.00
Water Truck	10	$ 100.00	$ 1,000.00
Basic Tools- Compactor, Generators, Etc.	80	$ 20.00	$ 1,600.00
			$ -
		Total	**$ 5,600.00**

Sub-Contractor	Total

Overhead and Profit

Percent	Subtotal	Total
15%	$ 31,090.66	**$ 4,663.60**

Sub-Contractor Price	
Material Labor and Equipment	$ 31,090.66
Overhead and Profit	$ 4,663.60
Grand Total	$ 35,754.26

Approved By	Date	Signature

Crosstown Construction & Trucking, LLC
2500 Motel Blvd.
Las Cruces, NM 88005
575-523-6101

Change Order

Project Name	Lower Heights Reservoir to Upper Heights Reservoir	**Client**	City of Alamogordo
Change Order No.	2	**Company Name**	City of Alamogordo
Requesting Party	Justin		
Subcontract No.		**Address**	
Date of Request	4/1/2026	**Phone Number**	

Description of Changes	Demolition of old Vault Installation of fire hydrant - Materials by city of Alamogordo
Reasons for Changes	
Additional Information	

Materials	Description	Quantity		Unit Price	Amount
Dump Fee	Concrete & Metal	24	Tons	$ 18.00	$ 432.00
Bedding	Fill Material	12	Tons	$ 40.00	$ 480.00
					$ -
					$ -
					$ -
				Total	**$ 912.00**

Labor	Hours	Unit Price	Amount
Operator x 2	64	$ 35.51	$ 2,272.64
Labor x 2	64	$ 26.40	$ 1,689.60
			$ -
			$ -
		Total	**$ 3,962.24**

Equipment	Hours	Rate	Amount
Back Hoe	20	$ 100.00	$ 2,000.00
Water Truck	10	$ 100.00	$ 1,000.00
Dump Truck	10	$ 100.00	$ 1,000.00
			$ -
		Total	**$ 4,000.00**

Sub-Contractor	Total

Overhead and Profit

Percent	Subtotal	Total
15%	$ 8,874.24	**$ 1,331.14**

Sub-Contractor Price	
Material Labor and Equipment	$ 8,874.24
Overhead and Profit	$ 1,331.14
Grand Total	**$ 10,205.38**

Approved By	Date	Signature

Crosstown Construction & Trucking, LLC
2500 Motel Blvd.
Las Cruces, NM 88005
575-523-6101

Change Order

Project Name	Lower Heights Reservoir to Upper Heights Reservoir	**Client**	City of Alamogordo
Change Order No.	RFI No. 24	**Company Name**	City of Alamogordo
Requesting Party	Crosstown Construction		
Subcontract No.		**Address**	
Date of Request	4/1/2026	**Phone Number**	

Description of Changes	Remove & Replace Tie in Points for 12" and 14"
Reasons for Changes	
Additional Information	

Materials	Description	Quantity		Unit Price	Amount
Core & Main	Valves MJ Kits, Cap				$ 19,590.14
	45 Fittings, Hy Max				$ -
	Fittings, Pipe				$ -
	90 Bend with Fittings				$ -
					$ -
				Total	**$ 19,590.14**

Labor	Hours	Unit Price	Amount
Operator x 2	32	$ 35.51	$ 1,136.32
Labor x 2	32	$ 26.40	$ 844.80
			$ -
			$ -
		Total	**$ 1,981.12**

Equipment	Hours	Rate	Amount
Back Hoe	8	$ 100.00	$ 800.00
Water Truck	8	$ 100.00	$ 800.00
Basic tools- Compactor, Generator, Etc.	16	$ 20.00	$ 320.00
			$ -
		Total	**$ 1,920.00**

Sub-Contractor	Total

Overhead and Profit

Percent	Subtotal	Total
15%	$ 23,491.26	**$ 3,523.69**

Sub-Contractor Price	
Material Labor and Equipment	$ 23,491.26
Overhead and Profit	$ 3,523.69
Grand Total	$ 27,014.95

Approved By	Date	Signature

Crosstown Construction & Trucking, LLC
2500 Motel Blvd.
Las Cruces, NM 88005
575-523-6101

Change Order

Project Name	Lower Heights Reservoir to Upper Heights Reservoir	**Client**	City of Alamogordo
Change Order No.	RFI No. 14	**Company Name**	City of Alamogordo
Requesting Party	Crosstown Construction		
Subcontract No.		**Address**	
Date of Request	4/1/2026	**Phone Number**	

Description of Changes	1) RFI No. 14- Material
Reasons for Changes	
Additional Information	

Materials	Description	Quantity		Unit Price	Amount
Core & Main	Please see attached Price List				$ 42,970.62
					$ -
					$ -
					$ -
			Total		**$ 42,970.62**

Labor	Hours	Unit Price	Amount
			$ -
			$ -
			$ -
			$ -
		Total	**$ -**

Equipment	Hours	Rate	Amount
			$ -
			$ -
			$ -
			$ -
		Total	**$ -**

Sub-Contractor	Total

Overhead and Profit

Percent	Subtotal	Total
15%	Management of Materials	**$ 6,445.60**

Sub-Contractor Price		
Material Labor and Equipment	$	42,970.62
Overhead and Profit	$	6,445.60
Grand Total	$	**49,416.22**

Approved By	Date	Signature

Bid Proposal for Copy of Crosstown- Upper/Lower rev3

CROSSTOWN CONSTRUCTION*
Job Location: las cruces, NM
Bid Date: 10/09/2025
Core & Main Bid #: 4504283

Core & Main
1000 Parkhill Dr
Las Cruces, NM 88012
Phone: 5755274229
Fax: 5755271314

Seq#	Qty	Description	Units	Price	Ext Price
10	1	16 EBAA MEGAFLANGE 2116	EA	1,520.35	1,520.35
20	2	16 FLGXPE DI PIPE 1'6" IMP	EA	2,118.75	4,237.50
30	1	16 B3211-6 FLG BFV OL 2"ON	EA	6,627.91	6,627.91
40	1	16X14 FLG TEE C110 IMP	EA	3,462.38	3,462.38
50	1	14 A2361-19 MXF RW GV OL L/ACC	EA	9,803.91	9,803.91
60	1	14 MJ 45 C153 IMP	EA	699.10	699.10
70	1	14 FLGXFLG DI PIPE 1' IMP	EA	2,265.90	2,265.90
80	8	14X1/8 FLG ACC RR FF	EA	99.99	799.92
90	8	16X1/8 FLG ACC RR FF	EA	157.39	1,259.12
100	2	16 ONE-LOK DI RESTR SLDE16 (I) SIGMA (DIP) GLAND ONLY	EA	321.18	642.36
110	4	14 MJ REG ACC SET L/GLAND IMP	EA	93.80	375.20
120	2	16 MJ REG ACC SET L/GLAND IMP	EA	103.89	207.78
130	1	12 EBAA MEGAFLANGE 2112	EA	483.70	483.70
140	1	14X12 FLG TEE C110 IMP	EA	2,309.18	2,309.18
150	1	860-56-0606-16P 24 HYMAX CPLG 23.85-24.96 LR 24.88-25.95 HR	EA	2,823.33	2,823.33
		OD			
160	1	14 FLGXPE DI PIPE 1'6" IMP	EA	1,268.58	1,268.58
180	20	24 PVC C900 DR18 PIPE 20' GSKT PC235	FT	111.99	2,239.80
		BROKEN BUNDLE FEE TO BE APPLIE			
210	1	14X10 MJ RED C153 IMP	EA	446.22	446.22
220	1	14 MJ REG ACC SET L/GLAND IMP	EA	93.80	93.80
230	1	10 MJ REG ACC SET L/GLAND IMP	EA	63.55	63.55
240	1	14 SIGMA SLCE14 ONE-LOK REST F/C900 L/ACC 15.30 OD IMP	EA	254.24	254.24
250	1	10 SIGMA SLCE10 ONE-LOK REST F/C900/IPS L/ACC IMP	EA	146.20	146.20
270	1	FREIGHT	EA	750.00	750.00

Bid Proposal for Copy of Crosstown- Upper/Lower rev3

Bid #: 4504283

Seq#	Qty	Description	Units	Price	Ext Price
280	1	BROKEN LIFT CHARGE	EA	150.00	150.00
				Sub Total	**42,930.03**
				Tax	40.59
				Total	**42,970.62**

UNLESS OTHERWISE SPECIFIED HEREIN, PRICES QUOTED ARE VALID IF ACCEPTED BY CUSTOMER AND PRODUCTS ARE RELEASED BY CUSTOMER FOR MANUFACTURE WITHIN THIRTY (30) CALENDAR DAYS FROM THE DATE OF THIS QUOTATION. CORE & MAIN LP RESERVES THE RIGHT TO INCREASE PRICES TO ADDRESS FACTORS, INCLUDING BUT NOT LIMITED TO, GOVERNMENT REGULATIONS, TARIFFS, TRANSPORTATION, FUEL AND RAW MATERIAL COSTS. DELIVERY WILL COMMENCE BASED UPON MANUFACTURER LEAD TIMES. ANY MATERIAL DELIVERIES DELAYED BEYOND MANUFACTURER LEAD TIMES MAY BE SUBJECT TO PRICE INCREASES AND/OR APPLICABLE STORAGE FEES. THIS BID PROPOSAL IS CONTINGENT UPON BUYER'S ACCEPTANCE OF SELLER'S TERMS AND CONDITIONS OF SALE, AS MODIFIED FROM TIME TO TIME, WHICH CAN BE FOUND AT: https://coreandmain.com/terms-of-sale/

THIS BID MAY INCLUDE GLOBALLY SOURCED (IMPORTED) MATERIALS THAT ARE SUBJECT TO CHANGING TARIFFS. PRICES ARE SUBJECT TO CHANGE DUE TO POTENTIAL ADDITIONAL TARIFFS IMPOSED BY THE U.S. GOVERNMENT. IF IMPOSED, PRICES WILL INCREASE BY THE SAME PERCENTAGE AND WILL BE EFFECTIVE ON THE DATE THAT THE NEW TARIFFS ARE IMPLEMENTED. THESE ITEMS SHOULD BE PURCHASED WITH HASTE TO AVOID ANY ADDITIONAL RISING TARIFF COSTS.

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/09/2026 **Report No:** 9.

Submitted By: Stephanie Hernandez

Subject: Consider, and act upon, the final publication of Ordinance No. 1722 authorizing up to $12,865,000 in bonds or a loan to fund improvements to the City's natatorium, with repayment from the 0.125% Municipal Infrastructure Gross Receipts Tax. *(Chris Muirhead, Modrall Sperling and John Archuleta, Bosque Advisors)* **(Roll Call Vote Required)**

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation:

Background:

In November 2024, the voters of Alamogordo approved the rededication of a tax to support the construction of a new municipal natatorium. This action established a dedicated funding source.

On March 24, 2026, Ordinance No. 1722, *"Authorizing the Delivery of a Loan Agreement and Intercept Agreement for $12,000,000 for the Construction, Equipping, and Furnishing of a Municipal Natatorium,"* was presented for consideration but ultimately tabled. As a result of this action, the City was unable to meet the required deadline with the New Mexico Finance Authority (DFA process), and the previously anticipated financing timeline was impacted.

In response, City staff, in consultation with Modrall Sperling and Bosque Advising, have evaluated alternative financing options to maintain project momentum. The primary options include:

- **Commercial Bank (Private Placement):** Offers a faster timeline and greater flexibility, though potentially at higher interest rates.
- **Public Bond Offering:** Requires a longer timeline (approximately 3–4 months) and necessitates obtaining a bond rating.
- **NMFA Financing:** Would require waiting until the next bond sale issuance, which could delay the project until the fall or winter.

Based on this analysis, the staff recommends pursuing a hybrid financing approach. This would involve securing a commercial bank loan in the short term to allow the project to proceed without significant delay, coupled with a planned refinance through NMFA after an appropriate timeline to complete the remaining

years of a 25-year loan. This approach balances the need to move forward expeditiously while preserving the opportunity to secure more favorable long-term financing conditions.

Review of Financing Proposals
City of Alamogordo

April 14, 2026

Series 2026 Gross Receipts Tax Bonds

1. The Series 2026 RFP Process and Proposals

The City received 5 proposals for the financing

The RFP Process:

Underwriter Proposals were sent to investment banks who have underwritten bonds in New Mexico in the past.

The proposals were sent as a blind carbon copy email so that they were unaware of the potential bidders. The following investment/commercial banks received the RFP as an invite to respond.

- Piper Sandler
- R.W. Baird
- Stifel Public Finance
- Municipal Capital Markets
- Hilltop Securities, Inc
- RBC Capital Markets
- FHN Capital
- Bank of Albuquerque
- Capital One Public Finance
- Capra Bank
- OMB Bank
- Flagstar

Underwriter Proposals:

- The following investment banks provided proposals to underwrite the City.
  - Hilltop Securities, Inc
  - Piper Sandler
- The following commercial banks provided term sheets provide a loan to the City
  - Capital One Public Funding
  - Bank of Albuquerque
  - Flagstar Bank (late submittal)

- All proposals are **indicative** market rates, until priced or locked in.

Market Commentary – Week of March 30th

- US treasury yields were mixed in the first quarter of 2026. US treasuries are proxies for the municipal bond market interest rates. The 10-year treasury, shown below, remains range bound, but has recently seen elevated levels. Interest rates remain flat to inverted.

- Broad market indices, which suffered losses in March, have rebounded slightly. The market has been resilient with the turmoil in the near term.

- Looking near term, the pressure on interest rates remains high given the geopolitical concerns about conflicts in the Middle East.

Bloomberg

Bond Investors Suddenly Are More Focused on Growth Than Inflation (Bloomberg: March 30, 2026)

- US and Israeli forces pressed ahead with attacks on Iran while the Islamic Republic launched missiles across the Persian Gulf
- Treasuries firmed, supporting US stocks, as fears that the war will trigger a sharp economic slowdown prompted traders to dial back bets on higher interest rates.
- A Russian tanker carrying 100,000 tons of oil arrived in Cuba as the Communist regime seeks to ease an energy crisis.
- Japan's top currency official helped strengthen the yen by delivering his strongest warning yet to speculators that authorities may take bold action in markets if current conditions persist.

Summary of Underwriter Proposals

Underwriter Proposals:

- The two underwriting proposals received are from firms familiar with New Mexico and marketing bonds within the state.
- The TIC (i.e., true interest cost) are similar. The Underwriting fees are far apart with Piper double the amount of Hilltop.
- Both proposals produce enough bond premium to cover the cost of issuance, and thus, maintain the project fund at the $12 million. The remaining amount will be deposited into the debt service fund.
- The cost to underwrite the bonds very different, which can be a telling perspective on the market.

Negotiated Underwriting

	Piper Sandler	Hilltop Securities
Sources:		
Par amount of financing	12,000,000	12,000,000
Net Premium (or Discount)	1,084,531	927,654
Cash Contribution	-	-
Total Sources	**$ 13,084,531**	**$ 12,927,654**
	-	-
Uses		
Project Fund	11,900,000	11,900,000
Underwriters Discount	60,922	38,981
Surety Fee	25,227	25,005
Bond Insurance	31,430	31,171
Rating	20,000	20,000
Reserve Fund	-	-
Bond Counsel	50,000	50,000
Municipal Advisor	50,000	50,000
Residual	946,952	812,497
Total Uses:	**$ 13,084,531**	**$ 12,927,654**
Total Interest Cost	9,254,124	$ 9,080,333
Total Principal & Interest Cost	$ 21,254,124	21,080,333
True Interest Cost (%)	4.225%	4.261%
Net Interest Cost ($$$)	8,169,593	8,152,679

Preliminary, Subject to Changing Market Conditions

Summary of Bank Proposals

Direct Purchase Proposals:

- Three banks submitted term sheets, that are offers to lend the funds to the City. The proposals, some final and others contingent, establish the terms, including interest rates, principal repayment, and prepay options, among others.

- Banks offer some features that can be more compelling than a public bond offering or NMFA such as no bond rating or offering document, no debt reserve, and more flexible call options.

.

- We are also including NMFA as an option.

- Late submittal - Flagstar Bank submitted a preliminary indication of its interest rate pricing and structure. The rates were competitive:
  - 7 year at 4.15 percent
  - 10 year at 4.2 percent

Private Placement - Bank & Government Lender

	Bank of ABQ	NMFA PPRF	Capital One
Sources:			
Par amount of financing	12,000,000	12,845,000	12,000,000
Net Premium (or Discount)	-	-	-
Cash contribution (DS Acct):	-	-	-
Total Sources	**$ 12,000,000**	**$ 12,845,000**	**$ 12,000,000**
	-	-	
Uses			
Project Fund	11,900,000	11,900,000	11,900,000
Underwriters Discount	-	-	-
Surety Fee	-	-	-
Bond Insurance	-	-	-
Rating	-	-	-
Reserve Fund	-	844,057	-
Bond Counsel	50,000	50,000	50,000
Municipal Advisor	50,000	50,000	50,000
Residual	-	943	-
Total Uses:	**$ 12,000,000**	**$ 12,845,000**	**$ 12,000,000**
Total Interest Cost	$ 3,250,516	-	9,865,791
Total Principal & Interest Cost	$ 15,250,516	$ 21,040,616	$ 21,865,791
True Interest Cost (%)	4.174%	4.219%	5.269%
7 year Interest Cost ($)	$ 3,250,516	$ 3,332,402	$ 3,592,383

Preliminary, Subject to Changing Market Conditions

Bank of Albuquerque

Bank of Albuquerque offers the City a bank loan. The loan would be structured to amortize over 25 years, but would have a final maturity at year 7.

They would set a fixed interest rate (4.175%) and require repayment in 7 years.

This creates refinance risk, where the City would have to refinance the remaining principal debt in year 7 or before.

City of Alamogordo: $12 Million Series 2026 - Private Placement w/ Bank of ABQ

Number of Years	Fiscal Year	Series 2026 Bonds Principal (6/1)	Interest	Total Debt Service (DS)
0	2026	-	-	-
1	2027	275,000	507,958	782,958
2	2028	295,000	489,519	784,519
3	2029	305,000	477,203	782,203
4	2030	320,000	464,469	784,469
5	2031	330,000	451,109	781,109
6	2032	345,000	437,331	782,331
7	2033	10,130,000	422,928	10,552,928
		12,000,000	**3,250,516**	**15,250,516**

*Preliminary, subject to change based on market conditions

Bond Statistics		
Total Interest Cost ($)	$	3,250,516
Net Interest Cost ($)	$	3,250,516
True Interest Cost (%)		4.174%
Net Interest Cost (%)		4.175%
(1)Average Annual DS ($)	$	782,931

(1) Average of first 6 Maturities

Bank of ABQ: Sources & Uses		
Sources:		
Par amount of financing		12,000,000
Premium		-
Total Sources	**$**	**12,000,000**
		-
Uses		
Project Fund		11,900,000
Bond Counsel & GRT		50,000
Municipal Advisor & GRT		50,000
Total Uses:	**$**	**12,000,000**

NMFA: Sources & Uses		
Sources:		
Par amount of financing		12,845,000
Premium		-
Total Sources	**$**	**12,845,000**
		-
Uses		
Project Fund		11,900,000
Reserve Fund		844,057
Bond Counsel & GRT		50,000
Municipal Advisor & GRT		50,000
Residual to DS Account		943
Total Uses:	**$**	**12,845,000**

Bond Statistics		
Total Interest Cost ($)	$	8,195,616
Net Interest Cost ($)	$	8,195,616
True Interest Cost (%)		4.219%
Net Interest Cost (%)		4.281%
Average Annual DS ($)	$	841,625

City of Alamogordo $12 Milion Series 2026 - Private Placement w/ NMFA

		Series 2026 Bonds		
Number of Years	Fiscal Year	Principal (6/1)	Interest	Total Debt Service (DS)
1	2026	-	-	-
2	2027	335,000	506,208	841,208
3	2028	345,000	495,037	840,037
4	2029	355,000	486,136	841,136
5	2030	365,000	476,799	841,799
6	2031	375,000	466,871	841,871
7	2032	385,000	456,259	841,259
8	2033	395,000	445,094	840,094
9	2034	410,000	433,402	843,402
10	2035	420,000	420,856	840,856
11	2036	435,000	407,710	842,710
12	2037	450,000	393,529	843,529
13	2038	465,000	377,869	842,869
14	2039	480,000	360,803	840,803
15	2040	500,000	342,323	842,323
16	2041	520,000	322,473	842,473
17	2042	540,000	301,413	841,413
18	2043	565,000	279,057	844,057
19	2044	585,000	254,988	839,988
20	2045	610,000	229,424	839,424
21	2046	640,000	202,218	842,218
22	2047	670,000	173,034	843,034
23	2048	700,000	141,946	841,946
24	2049	730,000	109,116	839,116
25	2050	765,000	74,660	839,660
26	2051	805,000	38,399	843,399
		12,845,000	**8,195,616**	**21,040,616**

*Preliminary, subject to change based on market conditions

Capital One Public Funding

CapitalOne: Sources & Uses		
Sources:		
Par amount of financing		12,000,000
Premium		-
Total Sources	**$**	**12,000,000**
		-
Uses		
Project Fund		11,900,000
Bond Counsel & GRT		50,000
Municipal Advisor & GRT		50,000
Total Uses:	**$**	**12,000,000**

Bond Statistics		
Total Interest Cost ($)	$	9,865,791
Net Interest Cost ($)	$	9,865,791
True Interest Cost (%)		5.269%
Net Interest Cost (%)		5.270%
[1] Average Annual DS ($)	$	876,231

(1) Average of first 6 Maturities

City of Alamogordo: $12 Million Series 2026 - Private Placement w/ Capital One

		Series 2026 Bonds		
Number of Years	Fiscal Year	Principal (6/1)	Interest	Total Debt Service (DS)
0	2026	-	-	-
1	2027	240,000	635,913	875,913
2	2028	255,000	619,752	874,752
3	2029	270,000	606,314	876,314
4	2030	285,000	592,085	877,085
5	2031	300,000	577,065	877,065
6	2032	315,000	561,255	876,255
7	2033	330,000	544,655	874,655
8	2034	345,000	527,264	872,264
9	2035	365,000	509,082	874,082
10	2036	385,000	489,847	874,847
11	2037	405,000	469,557	874,557
12	2038	425,000	448,214	873,214
13	2039	450,000	425,816	875,816
14	2040	470,000	402,101	872,101
15	2041	495,000	377,332	872,332
16	2042	525,000	351,246	876,246
17	2043	550,000	323,578	873,578
18	2044	580,000	294,593	874,593
19	2045	610,000	264,027	874,027
20	2046	645,000	231,880	876,880
21	2047	675,000	197,889	872,889
22	2048	710,000	162,316	872,316
23	2049	750,000	124,899	874,899
24	2050	790,000	85,374	875,374
25	2051	830,000	43,741	873,741
		12,000,000	**9,865,791**	**21,865,791**

*Preliminary, subject to change based on market conditions

Public Sale – Negotiated – Hilltop Securities

Hilltop Securities: Sources & Uses		
Sources:		
Par amount of financing		12,000,000
Premium		927,654
Total Sources	**$**	**12,927,654**
		-
Uses		
Project Fund		11,900,000
Underwriters Discount		38,981
Surety		25,005
Bond Insurance		31,171
Municipal Advisor & GRT		50,000
Bond Counsel		50,000
Rating		20,000
Residual to DS Account		812,497
Total Uses:	**$**	**12,927,654**

Bond Statistics		
Total Interest Cost ($)	$	9,080,333
Net Interest Cost ($)	$	8,152,679
True Interest Cost (%)		4.261%
Net Interest Cost (%)		4.489%
Average Annual DS ($)	$	843,213

City of Alamogordo, NM: Series 2026 $12 Million - Hilltop Securities

		Series 2026 Bonds		
Number of Years	Fiscal Year	Principal (6/1)	Interest	Total Debt Service (DS)
0	2026	-	-	-
1	2027	530,000	603,333	1,133,333
2	2028	260,000	573,500	833,500
3	2029	270,000	560,500	830,500
4	2030	285,000	547,000	832,000
5	2031	300,000	532,750	832,750
6	2032	315,000	517,750	832,750
7	2033	330,000	502,000	832,000
8	2034	345,000	485,500	830,500
9	2035	360,000	468,250	828,250
10	2036	380,000	450,250	830,250
11	2037	400,000	431,250	831,250
12	2038	420,000	411,250	831,250
13	2039	440,000	390,250	830,250
14	2040	465,000	368,250	833,250
15	2041	485,000	345,000	830,000
16	2042	510,000	320,750	830,750
17	2043	535,000	295,250	830,250
18	2044	560,000	268,500	828,500
19	2045	590,000	240,500	830,500
20	2046	620,000	211,000	831,000
21	2047	650,000	180,000	830,000
22	2048	685,000	147,500	832,500
23	2049	720,000	113,250	833,250
24	2050	755,000	77,250	832,250
25	2051	790,000	39,500	829,500
		12,000,000	**9,080,333**	**21,080,333**

*Preliminary, subject to change based on market conditions

Public Sale – Negotiated Piper Sandler

Negotiated Underwriting: Piper Sandler	
Sources:	
Par amount of financing	12,000,000
Premium	1,084,531
Total Sources	**$ 13,084,531**
	-
Uses	
Project Fund	11,900,000
Underwriters Discount	60,922
Surety	25,227
Bond Insurance	31,430
Bond Counsel & GRT	50,000
Municipal Advisor & GRT	50,000
Rating	20,000
Residual to DS Account	946,952
Total Uses:	**$ 13,084,531**

Bond Statistics	
Total Interest Cost ($)	$ 9,254,124
Net Interest Cost ($)	$ 8,169,593
True Interest Cost (%)	4.225%
Net Interest Cost (%)	4.499%
Average Annual DS ($)	$ 850,165

City of Alamogordo: Series 2026 $12 Million - Piper Sandler

Number of Years	Calendar Year	Series 2026 Bonds Principal (6/1)	Interest	Total Debt Service (DS)
0	2026	-	-	-
1	2027	530,000	610,749	1,140,749
2	2028	260,000	580,875	840,875
3	2029	270,000	567,875	837,875
4	2030	285,000	554,375	839,375
5	2031	300,000	540,125	840,125
6	2032	315,000	525,125	840,125
7	2033	330,000	509,375	839,375
8	2034	345,000	492,875	837,875
9	2035	360,000	475,625	835,625
10	2036	380,000	457,625	837,625
11	2037	400,000	438,625	838,625
12	2038	420,000	418,625	838,625
13	2039	440,000	397,625	837,625
14	2040	465,000	375,625	840,625
15	2041	485,000	352,375	837,375
16	2042	510,000	328,125	838,125
17	2043	535,000	302,625	837,625
18	2044	560,000	275,875	835,875
19	2045	590,000	247,875	837,875
20	2046	620,000	218,375	838,375
21	2047	650,000	187,375	837,375
22	2048	685,000	154,875	839,875
23	2049	720,000	118,913	838,913
24	2050	755,000	81,113	836,113
25	2051	790,000	41,475	831,475
		12,000,000	**9,254,124**	**21,254,124**

*Preliminary, subject to change based on market conditions

2. The Analysis and Recommendation

Recommendation on Method of Sale

The bond underwriters will require a bond rating and official offering documents. This process can extend the time to market and closing by three months. On the other hand, direct placements with a commercial bank are efficient and quick to close, which can keep the City on track with its construction plans.

The Bosque recommendation is to seek a direct purchase with a commercial bank.

Assessment of Risks:
Alignment with Plan of Finance:

- The proposals align with the plan of finance, except for a delay in closing. The Bond Underwriting process is two months longer than the direct purchase path.

Interest Rate Risk: The municipal bond market remains uncertain and potentially volatile.

- Despite the Federal Reserve reducing the fed funds rate in 2025, short-term rates have remained elevated at levels consistent with past two-year trend of inversion. The global turmoil, particularly the war in the Middle East, has disrupted oil/natural gas supply, which could have a global reach into consumer prices, and rising inflation.
- The Underwriters provided its market assessment of how the market would receive the bonds. There was consistency in the pricing perspectives, which indicates the firms are assessing the credit similarly. There was consensus that the delay in audits would not be material in the ability to sell bonds. The Banks, who undergo their own underwriting criteria, did not express concern about the audits.
- Locking in rates, that are competitive and affordable, can happen more quickly with a direct purchase.

Recommendation: Work with Bank of Albuquerque

Risk from Terms.

- Bank of Albuquerque offered the strongest terms to the City, a 4.175 percent, but requires a 7-year final maturity. This is standard in commercial lending.
- Capital One Public Lending provides a fully amortization loan, but the rate is higher.
- None of the banks require borrowing additional funds for a reserve fund, which makes a bank loan compelling.
- Flagstar Bank submission was late, but the bank offered an indicative rate below Bank of Albuquerque.

Bosque Advisors, LLC Recommendation

1. Begin working with Bank of ABQ to finalize terms and interest rate. Currently, this rate is not locked in.
2. Have bond counsel prepare the Bond Ordinance with the direct purchase process with delegated authority to finalize terms.

Bosque Advisors, LLC
Municipal Financial & Policy Advisors
New Mexico Public Finance
Albuquerque

(505) 532-2701

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ALAMOGORDO AQUATIC CENTER

1100 OREGON AVE
ALAMOGORDO, NM 88310

FOR:
CITY OF ALAMOGORDO
1376 E. NINTH STREET
ALAMOGORDO, NM 88310

CONSTRUCTION DOCUMENTS - 60%

ASA PROJECT NUMBER: 22131L

JANUARY 2026

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GENERAL

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G-101	ACCESSIBILITY STANDARDS

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AS-100	ARCHITECTURAL SITE PLAN
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A-101	COL. LAYOUT PLAN
A-102	REFLECTED CEILING PLAN
A-103	ROOF PLAN
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AQ5.0	POOL MECHANICAL ROOM PLAN & SECTIONS
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AQ6.0	POOL SYSTEMS SCHEMATIC
AQ7.0	ELECTRICAL COVER SHEET
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E-104	FIRE ALARM FLOOR PLAN
E-105	TECHNOLOGY/SPECIAL SYSTEMS FLOOR PLAN
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E-601	RISER DIAGRAM

ASA ARCHITECTS

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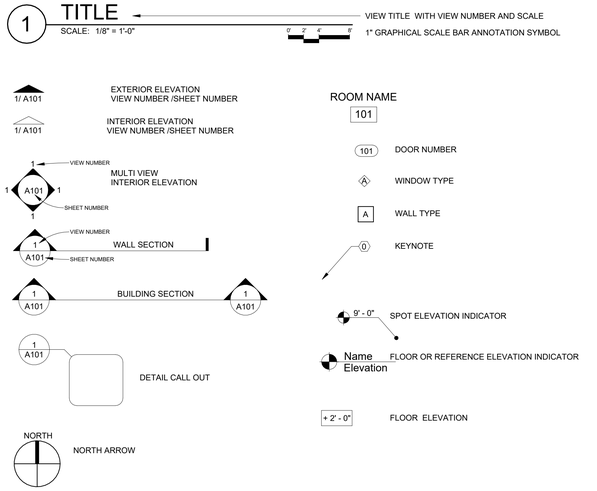
STUBBS
ENGINEERING, INC.

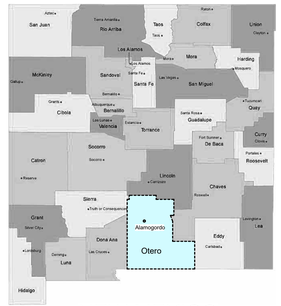
TESTUDO
ENGINEERING

THE DRY LAND

SYMBOLS LEGEND



PROJECT REGIONAL MAP



NEW MEXICO

PROJECT VICINITY MAP

ALAMOGORDO NATATORIUM

PROJECT DATA

A. PROJECT IDENTIFICATION

ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE.
ALAMOGORDO, NM 88310

B. OWNER

CITY OF ALAMOGORDO
1376 E. NINTH STREET
ALAMOGORDO, NM 88310

C. ARCHITECT

ASA ARCHITECTS
201 N. ALAMEDA
LAS CRUCES, NM 88005
575.526.3111

D. APPLICABLE CODES

BUILDING:	2021 NEW MEXICO BUILDING CODE
FIRE:	2021 INTERNATIONAL FIRE CODE
ENERGY:	2018 INTERNATIONAL ENERGY CONSERVATION CODE 2018 NM COMMERCIAL ENERGY CONSERVATION CODE
ACCESSIBILITY:	CHAPTER 11 OF THE 2021 INTERNATIONAL BUILDING CODE / 2021 NM COMMERCIAL BUILDING CODE AND CURRENT EDITION OF ICC / ANSI A117.1
MECHANICAL:	2021 NM MECHANICAL CODE
PLUMBING:	2021 NM PLUMBING CODE
ELECTRICAL:	2020 NEW MEXICO ELECTRICAL CODE / 2012 NM ELECTRICAL SAFETY CODE

E. SCOPE OF WORK

THE PROJECT CONSIST IN THE DESIGN FOR A NEW ENCLOSED NATATORIUM. THE BUILDING IS INTENDED TO BE PLANNED AND CONSTRUCTED AS A SPRUNG STRUCTURE. THE WORK GENERALLY CONSIST IN DESIGN OF A SEMI-OLIMPIC POOL WITH TEN LINES, ADJACENT SPACES TO THE POOL, INCLUDING LOBBY, LOCKER ROOMS, OFFICES, MECHANICAL AND STORAGE ROOMS, AND OUTDOOR DECK AREAS.

F: BUILDING DATA

1. CONSTRUCTION TYPE: TYPE IIB UNPROTECTED
2. OCCUPANCY CLASSIFICATION: A-4
3. OCCUPANCY LOAD (IBC TABLE 1004.5): 707
4. ALLOWABLE BUILDING AREA 38,000 S.F.
5. ACTUAL BUILDING AREA: 22,507 S.F.
6. ALLOWABLE BUILDING HEIGHT: 2 STORIES
7. ACTUAL BUILDING HEIGHT: 1 STORY
8. FIRE SPRINKLER SYSTEM: SPRINKLED
9. LAND USE ZONE: R-1 SINGLE-FAMILY DWELLING
10. SEISMIC LOCATION: SEE STRUCTURAL DRAWINGS
11. PLUMBIING FIXTURES: SEE CHART

MAXIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (IBC TABLE 2901.1)

FIXTURE:	REQUIRED	PROVIDED
WATER CLOSETS (MALE)	6	6
WATER CLOSETS (FEMALE)	8	8
LAVATORIES (MALE)	3	3
LAVATORIES (FEMALE)	3	4
DRINKING FOUNTAINS	1	2
SERVICE SINK	1	1

PROJECT GENERAL NOTES

PROJECT GENERAL NOTES PROVIDE INFORMATION CONCERNING THE WORK OF THE ENTIRE PROJECT AND ARE NOT LIMITED TO ANY INDIVIDUAL DRAWING OR SHEET.

1. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL CODES, ORDINANCES AND REGULATIONS APPLICABLE AT PROJECT LOCATION. CONTRACTOR IS RESPONSIBLE FOR FILING AND SECURING ALL NECESSARY PERMITS, APPROVALS, ETC. FOR ALL TRADES.
2. KEYED NOTES ARE GENERAL IN NATURE AND MAY NOT REPRESENT ALL CONDITIONS WHICH MAY EXIST.
3. FIELD VERIFY EXISTING DIMENSIONS PRIOR TO ORDERING OR CUTTING MATERIALS.
4. ALL WORK IS TO CONFORM TO DRAWINGS AND SPECIFICATIONS. DRAWINGS ARE NOT TO BE SCALED FOR INFORMATION.
5. THIS FACILITY SHALL BE FINISHED COMPLETELY THROUGHOUT. SHOULD THERE BE ANY QUESTIONS REGARDING BOUNDARIES OF EACH ROOM DESIGNATION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASK QUESTIONS PRIOR TO BIDDING. SHOULD TIME CONSTRAINTS NOT ALLOW CLARIFICATION FOR PRICING PURPOSES, THE FINISH OF THE NEXT ADJACENT ROOM (WHICH EVER IS HIGHER MONETARY VALUE) SHALL BE INCLUDED INTO THE BID. NO SEPARATE PAYMENT WILL BE MADE UNDER A REQUEST OF CLARIFICATION AFTER BIDDING.
6. SQUARE FOOTAGE LISTINGS IN EACH ROOM DESIGNATION ARE FOR OWNER SPACE LOCATION PURPOSES. THIS LISTING SHOULD NOT BE USED FOR ESTIMATION PURPOSES. IT IS THE RESPONSIBILITY OF THE BIDDING CONTRACTOR TO ESTABLISH THE EXACT REQUIRED QUANTITIES.
7. ALL EXPOSED PIPING (INCLUDES WALLS AND ROOF) SHALL BE PRIMED AND PAINTED AS SPECIFIED IN THE PAINTING SPEC. - UNLESS NOTED OTHERWISE. COLOR AS SELECTED BY ARCHITECT. PAINTING CONTRACTOR IS RESPONSIBLE FOR THE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS INDICATING EXPOSED PIPING. ALL REQUIRED PAINTING OF EXPOSED PIPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
8. CONTRACTOR SHALL PROVIDE ACCESS DOORS (MIN 18"x18") FOR ALL CONTROLS, MAINTENANCE ITEMS, AND VALVES BEHIND RIGID WALLS AND CEILINGS.
9. CONFLICTS WITHIN SPECIFICATIONS AND/ OR DRAWINGS:
   a. *WHERE CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS MAY ARISE, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE LARGER QUANTITY, OR THE HIGHER QUALITY OF THE ITEMS IN CONFLICT, AT NO ADDITIONAL COST TO THE OWNER.*
   b. *DRAWINGS WITHIN A SET ARE COMPLEMENTARY IN NATURE. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY OF THE SUPPLY AND INSTALLATION OF ITEMS WHICH MAY NOT APPEAR ON SHEETS NOT TYPICALLY ASSOCIATED WITH THAT PARTICULAR TRADE. EXAMPLE: A LIGHT IS SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, BUT IS NOT SHOWN ON THE ELECTRICAL LIGHTING PLAN. IN THIS CASE, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE FIXTURE AND PROVIDE POWER TO THE FIXTURE, WHEN IN DOUBT, THE CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO THE BID.*
   c. *NOTATIONS ON DRAWINGS (I.E., "KEYED NOTES") APPLY TO MOST TYPICAL OCCURRENCES, AND MAY NOT POINT TO EVERY SINGLE INSTANCE WHERE THAT CONDITION EXISTS. EXAMPLE: A KEYED NOTE POINTS TO A PIPE BOLLARD ON THE SIDE OF A DRIVE-THRU, AND IDENTIFIES AS SUCH. ANOTHER PIPE BOLLARD IS SHOWN ON THE OTHER SIDE, BUT IT IS NOT IDENTIFIED BY THE SAME KEYED NOTE. IN THIS CASE, THE CONTRACTOR SHALL FURNISH AND INSTALL BOTH PIPE BOLLARDS. WHEN IN DOUBT, THE CONTRACTOR SHALL REQUEST CLARIFICATION PRIOR TO THE BID.*
10. PROPER SEALING OF THE BUILDING ENVELOPE - OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE SHALL BE SEALED WITH CAULKING MATERIALS OR CLOSED WITH GASKETING SYSTEMS COMPATIBLE WITH THE CONSTRUCTION MATERIALS AND LOCATION. JOINTS AND SEAMS SHALL BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH MOISTURE VAPOR-PERMEABLE WRAPPING. SEALING MATERIALS SPANNING JOINTS BETWEEN CONSTRUCTION MATERIALS SHALL ALLOW FOR EXPANSION AND CONTRACTION OF THE CONSTRUCTION MATERIALS.
11. DISPOSAL OF ALL DEMOLISHED ITEMS SHALL BE DONE BY THE CONTRACTOR IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS AND ORDINANCES. DISPOSAL ITEMS SHALL BE DISPOSED OF IN A "PERMITTED SOLID WASTE FACILITY" OR OTHER PRIVATE LOCATION. PRIVATE DISPOSAL LOCATIONS SHALL NOT BE USED UNTIL A WRITTEN CONSENT FROM THE PROPERTY OWNER IS PROVIDED TO THE OWNER. ALL COST INCURRED IN OBTAINING A DISPOSAL SITE AND HAULING ALL REMOVED AND DEMOLISHED ITEMS TO THE SITE SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
12. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY BETWEEN DRAWINGS, SPECIFICATIONS AND/ OR EXISTING CONDITIONS. CONTRACTOR SHALL AWAIT RESOLUTION OF DISCREPANCY BEFORE ORDERING MATERIALS OR MOVING FORWARD WITH WORK INVOLVING DISCREPANCY.
13. CONTRACTOR SHALL REPAIR OR REPLACE ANY ITEM OR SURFACE THAT MAY HAVE BEEN DAMAGED DURING CONSTRUCTION.
14. MAKE THE NECESSARY ARRANGEMENTS WITH THE OWNER TO VISIT THE SITE PRIOR TO SUBMITTING A PROPOSAL. EXAMINE THE EXISTING SITE, FACILITIES, AND FIELD VERIFY ALL CONDITIONS.SUBMISSION OF A PROPOSAL SHALL BE TAKEN AS EVIDENCE THAT THE CONTRACTOR HAS PHYSICALLY INSPECTED THE SITE AND MADE HIM OR HERSELF FAMILIAR WITH AND UNDERSTANDS THE REQUIRED SCOPE OF WORK.
15. ACTUAL FIELD CONDITIONS FOUND TO BE AT VARIANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR HIS CONSIDERATION BEFORE PROCEEDING WITH THE WORK.
16. LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH RESPECTIVE UTILITY OWNERS.
17. GENERAL DATA SHOWN ON ONE PART OF THE DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS.
18. THE CONSTRUCTION DOCUMENTS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION MUST COMPLY WITH ALL GOVERNING REGULATIONS CONCERNING SAFETY AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
19. ALL TEMPORARY UTILITIES SHALL BE PAID BY THE CONTRACTOR.
20. THE CONTRACTOR'S COST FOR THE WORK SHALL INCLUDE ALL ACCESSORIES AND INCIDENTALS, INCLUDING BUT NO T LIMITED TO, BLOCKING BACKING, FASTENERS, ADHESIVES, SEALANTS, MISC. COMPONENTS AND ALL LABOR REQ. FOR COMPLETE INSTALLATION SATISFACTORY TO THE OWNER, ARCHITECT, AND MANUF.
21. ALL PLYWOOD, LUMBER, AND OTHER WOOD RELATED PRODUCTS FOR SHEATHING, BACKING, BLOCKING, NAILERS, ETC. SHALL BE FIRE TREATED.

ABBREVIATIONS

A/C	Air Condition
ACT	Acoustical Ceiling Tile
AD	Area Drain
ADB	Automatic Door Button
ADD	Addendum
ADDL	Additional
ADJ	Adjustable/Adjacent
AFF	Above Finish Floor
AGGR	Aggregate
ALT	Alternate/Alteration
ALUM	Aluminum
AMT	Amount
ANCH	Anchor
ANOD	Anodized (Anodic Coating)
APPROX	Approximate(ly)
ARCH	Architectural
ARF	Above Reference Floor
ASPH	Asphalt(ic)
ASST	Assistant
ATS	Automatic Transfer Switch
AUTO	Automatic
AUX	Auxiliary
AV	Audio Visual
AVG	Average
BAL	Balance
BB	Bulletin Board
B/C	Bottom of Curb
BD	Board
BL	Building Line
BLDG	Building
BLK	Block(ing)
BM	Bench Mark/Beam
B.O.	Bottom Of
BOT	Bottom
BSMT	Basement
CAB	Cabinet
CB	Catch Basin
C/C	Center to Center
CCTV	Closed Circuit TV
CEMPL	Cement Plaster
CER	Ceramic
CG	Corner Guard
CH	Coat Hook
CHAN	Channel
CHKBD	Chalkboard
CIP	Cast-in-Place (concrete)
CJ	Control Joint
CL	Center Line/Clearance
CLG	Ceiling
CLR	Clear
CMT	Ceramic Mosaic Tile
CMU	Concrete Masonry Unit
CNTR	Counter
CO	Clean Out
COL	Column
COMB	Combination/Combustible
COMP	Compress(ed)/Composite
CONC	Concrete
COND	Conduit/Condition
CONF	Conference
CONN	Connect(ion)
CONST	Construction
CONT	Continue/Continuous
CONTR	Contractor
COORD	Coordinator
CORR	Corridor
CPT	Carpet
CSWK	Casework
CT	Ceramic Tile
CTR	Center
CU	Clean Utility Room
D	Detention
D.A.F.S.	Direct Applied Finish System
DBL	Double
DE	Detention Equipment
DEG	Degree(s)
DEMO	Demolish/Demolition
DEPT	Department
DET	Detail
DF	Drinking Fountain
DIA	Diameter
DIAG	Diagonal
DIM	Dimension
DIST	Distance
DIV	Division/Divider
DN	Down
D.O.	Double Occupancy Cell
D.U.	Dirty Utility Room
DWL	Dowel
DWR	Drawer
EA	Each
EB	Expansion Bolt
EJ	Expansion Joint
ELEC	Electric(al)
ELEV	Elevator/Elevation
ENAM	Enamel(ed)
EMER	Emergency
ENCL	Enclosure
ENGR	Engineer
ENTR	Entrance
EPFL	Epoxy Flooring
EPNT	Epoxy Paint
EQ	Equal
EQUIP	Equipment
ES	Electronic Security
EST	Estimate(d)
ETC	Et Cetera
EW	Each Way
EWC	Electric Water Cooler
EXAM	Examination/Examining
EXC	Excavated/Excavation
EXH	Exhaust
EXIST (E)	Existing
EXP	Exposed/Expansion
EXT	Exterior
FA	Fire Alarm
FAB	Fabricate/Fabricator/Fabric
FD	Floor Drain
FV	Field Verify
FDC	Fire Department Connection
FDN	Foundation
FDPR	Fire Damper
FDV	Fire Department Valve
FDVC	Fire Dept. Valve Cabinet
FE	Fire Extinguisher
FEB	Fire Extinguisher Bracket
FEC	Fire Extinguisher Cab.
FH	Fire Hydrant/Fume Hood/Flat Head
FHC	Fire Hose Cabinet
FHEC	Fire Hose & Extinguisher Cab.
FIN	Finish(ed)
FL	Floor Line/Floor
FLASH	Flashing
FLEX	Flexible
FLR	Floor(ing)
FLUOR	Fluorescent
FOS	Face of Stud
FP	Fireproof(ing)/Full Penetration
FRAM(G)	Framing
FRT	Fire Retardant
FS	Full Size/Floor Sink
FT	Foot/Feet
FTG	Footing
FURR	Furring
FXD	Fixed
GA	Gauge/Gage
GALV	Galvanized
GB	Grab Bar
GC	General Contractor
GEN	General/Generator
GL	Glass/Glazing/Glazed
GLAM	Glue Laminated
GND	Ground
GWB	Gypsum Wallboard
GYP	Gypsum
HA	Handicapped Accessible
HB	Hose Bibb
HC	Hose Cabinet/ Handicap/Hollow Core
H.C.S.O.	Single Occupant Cell/
HCW	Hollow Core Wood/
H/C WTR	Hot and Cold Water
HDBD	Hardboard
HDCP	Handicapped (Accessible)
HDR	Header
HDWD	Hardwood
HDWR	Hardware
HGT(HT)	Height
HM	Hollow Metal
HR	Hour
HS	Hook Strip/High Strength
HSKG	Housekeeping
HTR	Heater
HVAC	Heating/Ventilation/ Air Conditioning
HWY	Highway
HYD	Hydrant
ID	Inside Diameter (Dim.)
ie	that is
IG	Insulating Glass
IMP	Insulated Metal Panel
IN	Inch
INCAND	Incandescent
INCL	Include(ing)
IND	Industrial
INFO	Information
ING	Insulating Glass
INSTL	Installation/Install
INSUL	Insulate(d) (ing)
RESIL	Resilient
RET	Return
REV	Reverse/Revised/Revision
RFG	Roofing
RH	Right Hand
RHR	Right Hand Reverse
RM	Room
RND	Round
RO	Rough Opening
ROW	Right of Way
RS	Resilient Sheet
R&S	Rod and Shelf
RT	Resilient Tile
RTN	Return
SAB	Sound Absorption Batt
SAN	Sanitary
SC	Solid Core
SCHED	Schedule
SCN	Screen
SCW	Solid Core Wood
SD	Soap Dispenser/Soap Dish
SECT	Section
SET	Setting
SF	Square Feet
SFC	Special Floor Coating
SFP	Sprayed on Fireproofing
SHR	Shower
SHT	Sheet
SK	Sink/Sketch
SIM	Similar
SLR	Sealer
SM	Sheet Metal
SND	Sanitary Napkin Dispenser
SNT	Sealant
SNR	Sanitary Napkin Receptacle
S.O.	Single Occupancy Cell
SP	Standpipe/Shear Plate
SPEC	Specification/Specified
SPK	Speaker
SPL	Special
SPR	Sprinkler
SPNT	Special Paint
SSK	Service Sink
S.T.	Staff Toilet
ST	Street/Stream
SST	Stainless Steel
STA	Station
STC	Sound Transmission Coefficient (Class)
STD	Standard
STL	Steel
STOR	Storage
STRUC	Structural
SUBFL	Subfloor(ing)
SUP	Supply
SUPP	Support/Supplement(al)
SURF	Surface
SUSP	Suspend(ed)
S.V.	Safety Vestibule
S&V	Stain & Varnish
SWCG	Special Wall Coating
SYM	Symmetrical
SYN	Synthetic
SYS	System
T	Top, Tread, Toilet
T&B	Top and Bottom
TB	Towel Bar
TBD	To Be Determined
TBS	To Be Selected
T/C	Top of Curb/ Top of Concrete
TD	Towel Dispenser
TEL	Telephone
TEMP	Temperature/Tempered/ Temporary
TERR	Terrazzo
TG	Tempered Glass
T&G	Tongue and Groove
THB	Tempered Hardboard
THERMO	Thermostat(ic)
THK	Thick(ness)
THRES	Threshold
THRU	Through
TJ	Telephone Jack
TKBD	Tackboard
TOIL	Toilet
T.O.M.	Top of Masonry
TOP	Topping
TOS	Top of Steel
TPD	Toilet Paper Dispenser
TR	Tread
TRK	Track
T/S	Top of Slab
T/ST	Top of Steel
TV	Television
T/W	Top of Wall
TYP	Typical
TRTD	Treated
UG	Underground
UH	Unit Heater
UL	Underwriters Laboratories, Inc.
UNFIN	Unfinished
UNO	Unless Noted Otherwise
UR	Urinal
UTIL	Utility
UV	Unit Ventilator
VAP	Vapor
VAR	Variable/Varnish/Varies
VB	Vapor Barrier
V.C.	Violent Cell
VEH	Vehicle
VENT	Ventilation/Ventilate/Ventilator
VEN	Veneer
VERT	Vertical
VEST	Vestibule
VG	Vertical Grain
VOL	Volume
VP	Veneer Plaster
W/	With
WAIN	Wainscot
WB	White Board/Wood Base
WC	Water Closet
WCG	Wall Covering
WD	Wood
WDW	Window
WF	Wide Flange (steel)
WG	Wire Glass/Wall Grill
WL	Water Line
W/O	Without
WP	Waterproof(ing)/Work Point/ Weather Proof
WR	Water Resistant/Waste Receptacle
WT	Weight
YD	Yard Drain

ASA ARCHITECTS
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PRELIMINARY
NOT FOR CONSTRUCTION

ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO
Client Address

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

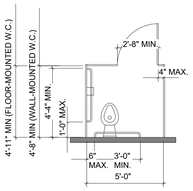
ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: Author
CHECKED BY: Checker

SHEET TITLE:
GENERAL INFORMATION AND PROJECT DATA

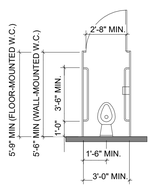
SHEET NO:
G-100

1/29/2026 1:22:06 PM \\asa-hp-dc2\Documents\sebastian\My Documents\Alamogordo Natatorium - CD_sebastian#EMAX.rvt

STANDARD TOILET STALL DIMENSIONS



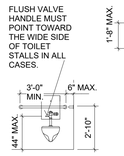
STANDARD TOILET STALL DIMENSIONS



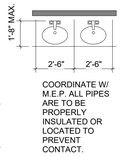
ALTERNATE TOILET STALL DIMENSIONS

GRAB BAR DETAIL

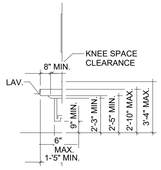
LOCKER ROOM BENCH



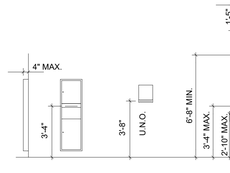
FRONT OF TOILET



PLAN

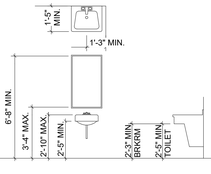


SIDE ELEVATION



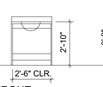
PAPER TOWEL DISPENSOR/ WASTE RECEPTACLE

PAPER TOWEL DISPENSOR



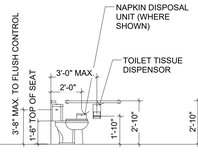
MIRROR & SINK

SIDE ELEVATION OF LAV. IN COUNTER

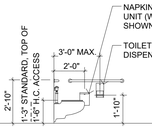


FRONT ELEVATION OF LAV. IN COUNTER

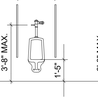
SOAP DISPENSOR



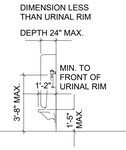
FLOOR MOUNTED TOILET



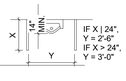
WALL MOUNTED TOILET



URINAL (FRONT)



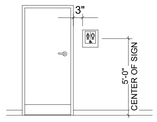
URINAL (SIDE)



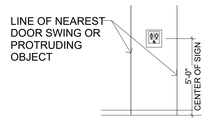
URINAL (PLAN)

TOILET STALL AND TOILET ACCESSORY STANDARDS:

NOTE: A PERSON MUST BE ABLE TO APPROACH WITHIN 3" OF SIGN WITHOUT ENCOUNTERING ANY DOOR SWING OR PROTRUDING OBJECT.

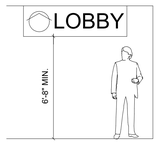


MOUNTING LOCATION REQUIRED AT STRIKE SIDE OF DOOR; SIDELITE SIGNS TO BE DOUBLE, BLANK SIGN ON BACK SIDE OF GLASS

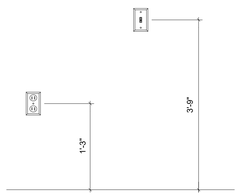


ALTERNATE MOUNTING LOCATION WHERE STRIKE SIDE MOUNTING NOT POSSIBLE. (NEAREST ADJACENT WALL)

SIGNAGE MOUNTING HEIGHTS:



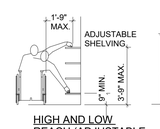
OVERHEAD SIGN CLEARANCE



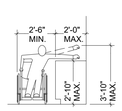
ELEC. / COMM. OUTLET

WALL SWITCH

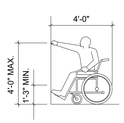
MOUNTING HEIGHTS:



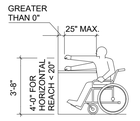
HIGH AND LOW REACH (ADJUSTABLE SHELVES)



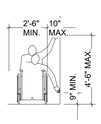
MAXIMUM SIDE REACH OVER AN OBSTRUCTION



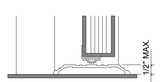
FORWARD REACH



MAXIMUM FRONT REACH OVER AN OBSTRUCTION

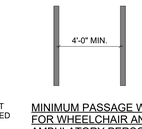


HIGH AND LOW SIDE REACH



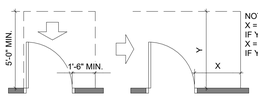
NOTE: ALL DOORS IN ALCOVES MUST COMPLY WITH THE CLEARANCE NOTED FOR FRONT APPROACHES.

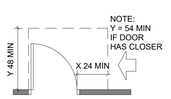
DOOR THRESHOLD DETAIL

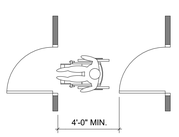


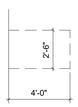
MINIMUM PASSAGE WIDTH FOR WHEELCHAIR AND ONE AMBULATORY PERSON

MIN. DOORWAY DEPTH

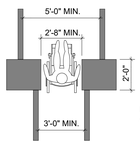




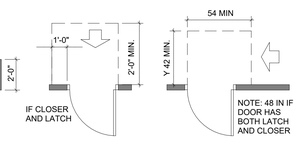


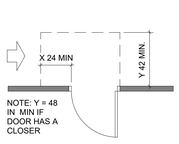


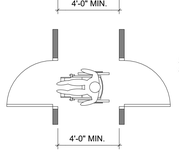
FORWARD REACH

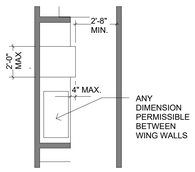


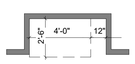
MAX. DOORWAY DEPTH

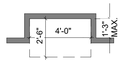




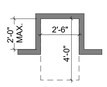


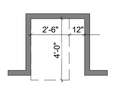




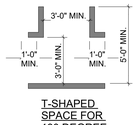


MANEUVERING CLEARANCES AT ALCOVES

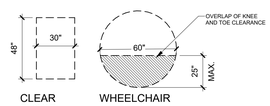




CARPET PILE THICKNESS



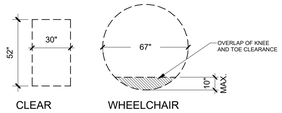
T-SHAPED SPACE FOR 180 DEGREE TURNS



CLEAR FLOOR

WHEELCHAIR

SPACE REQUIREMENTS TURNING SPACE (EXISTING BUILDINGS)



CLEAR FLOOR

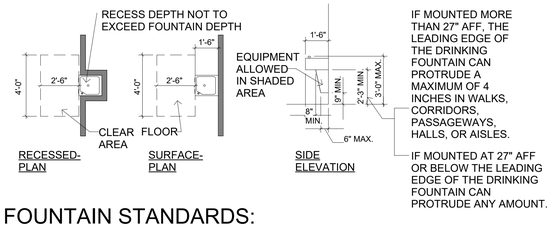
WHEELCHAIR

SPACE REQUIREMENTS TURNING SPACE (EXISTING BUILDINGS)

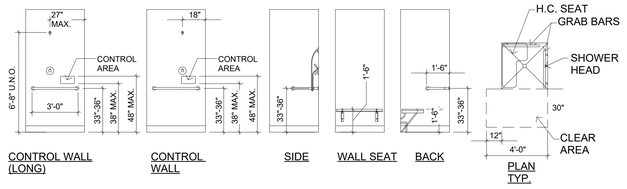
REACH AND DOOR CLEARANCE STANDARDS:

ACCESSIBILITY GENERAL NOTES

1. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ARCHITECTURAL DRAWINGS AND THE INFORMATION GIVEN ON THIS SHEET.
2. DO NOT SCALE THESE DRAWINGS.
3. DIMENSIONS INDICATED ARE THE MINIMUM CLEAR DIMENSIONS REQUIRED BY ICC/ANSI A117.1-2003. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF BUILDING ELEMENTS TO ASSURE THAT DIMENSIONS SHOWN ARE PROVIDED.
4. NOT ALL CONDITIONS SHOWN ON THIS SHEET MAY BE REQUIRED BY THIS PROJECT. COMPARE THE REQUIREMENTS OF THE ARCHITECTURAL DRAWINGS WITH THIS SHEET FOR RELEVANCE OF INFORMATION.
5. REFERENCE ACCESSIBLE DIMENSIONS LEGEND FOR ACCESSIBLE MOUNTING HEIGHTS OF ALL FIXTURES & ACCESSORIES LOCATED THROUGHOUT CONTRACT DOCUMENTS.
6. DIMENSIONS SHOWN ON INTERIOR ELEVATIONS AT WALLS ARE TO THE FINISHED SURFACE.
7. ALL EXPOSED PIPE UNDER SINKS ARE TO BE WRAPPED OR PROTECTED.
8. DIMENSIONS TO BOTTOM OF MIRRORS ARE TO THE REFLECTIVE SURFACE, NOT TO THE FRAME.
9. PROVIDE WOOD BLOCKING AS NEEDED TO SECURE GRAB BARS AND SHOWER SEATS TO STUD FRAMING WALLS.

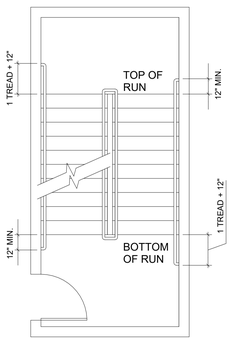


DRINKING FOUNTAIN STANDARDS:

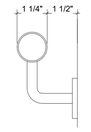


SHOWERS:

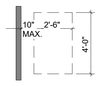
NOTE: SHOWER HEAD AND CONTROLS @ H.C. SHOWERS MUST BE @ OPPOSITE SIDE WALL FROM H.C. SHOWER SEAT



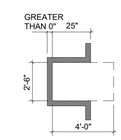
HANDRAIL EXTENSIONS AND CLEARANCES - PLAN



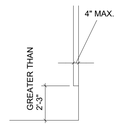
HANDRAIL DETAIL



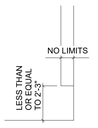
SIDE REACH



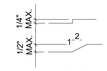
FORWARD REACH



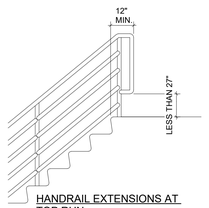
PROTRUSION LIMITS - PLAN



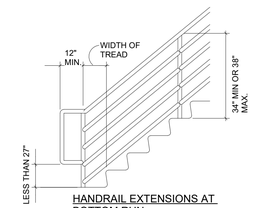
PROTRUSION LIMITS - SECTION



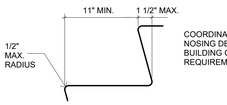
CHANGES IN LEVEL



HANDRAIL EXTENSIONS AT TOP RUN



HANDRAIL EXTENSIONS AT BOTTOM RUN



MINIMUM USEABLE AND MAXIMUM NOSING DIMENSIONS

STAIR AND RAILING STANDARDS

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FOR:
CITY OF ALAMOGORDO
Client Address

MARK	DATE	DESCRIPTION
ISSUE:		JANUARY 2026

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: Author
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SHEET TITLE:

ACCESSIBILITY STANDARDS

SHEET NO:
G-101

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

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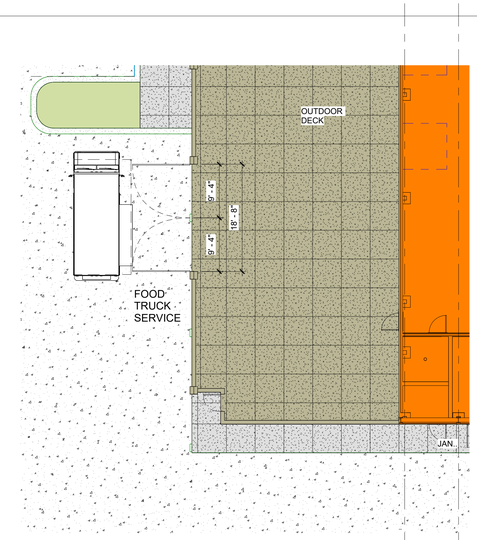
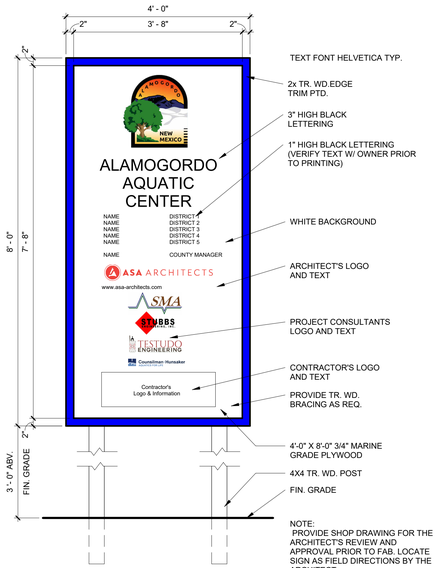


2 ENLARGED PLAN

SCALE: 3/32" = 1'-0"



NOTE:
PROVIDE SHOP DRAWING FOR THE ARCHITECT'S REVIEW AND APPROVAL PRIOR TO FAB. LOCATE SIGN AS FIELD DIRECTIONS BY THE ARCHITECT.

3 PROJECT SIGN

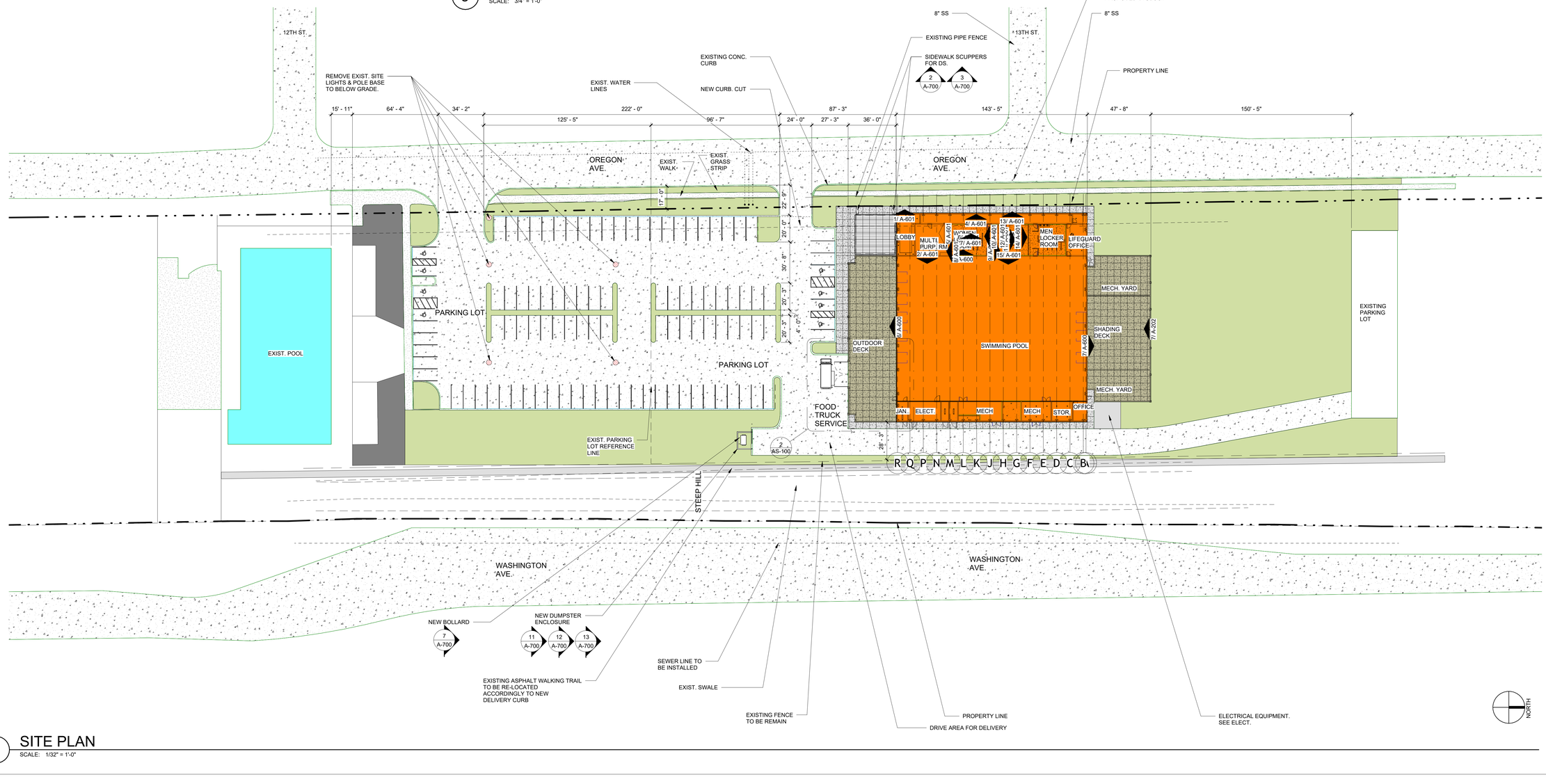
SCALE: 3/4" = 1'-0"

SITE GENERAL NOTES

1. ANY IMPROVEMENTS WITHIN THE RIGHT OF WAY SHALL BE IN ACCORDANCE WITH THE GOVERNANCE HAVING JURSIDITION STANDARD SPECIFICATIONS FOR STREETS AND SIDEWALK CONSTRUCTION.
2. REFER TO SITE SURVEY FOR UTILITY DATA. EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE CITY AND THE ARCHITECT / ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. CONTRACTOR MUST COORDINATE AND PAY FOR ALL UTILITY WORK TO BE DONE BY CITY FORCES AND/OR FRANCHISE UTILITY COMPANIES. INCLUDING TAP FEES, METER FEES AND ANY OTHER RELATED COSTS.
4. CONTRACTOR MUST PROTECT ALL ITEMS TO REMAIN DURING CONSTRUCTION.
5. CONTRACTOR MUST PROVIDE PROJECT SIGN TO BE POSTED DURING CONSTRUCTION.
6. ALL SURFACES AT ACCESSIBLE PARKING SPACES AND ALONG ACCESSIBLE ROUTE SHALL NOT EXCEED 2% (1:50) SLOPE.
7. CONTRACTOR SHALL COORDINATE SITE ACCESS AND STAGING AREA WITH OWNER/ARCHITECT. STAGING AREA SHALL BE A MINIMUM OF 12 FEET FROM ANY EXISTING STRUCTURE, LANDSCAPE, OR FEATURE; AND MUST BE PROPERLY CONTROLLED WITH EROSION AND RUN OFF CONTROL MEASURES.
8. CONTRACTOR TO PROVIDE A STORMWATER POLLUTION PREVENTION PLAN.
9. CONTRACTOR MUST COORDINATE WITH THOSE HAVING JURSIDICTION REGARDING THE REMOVAL OR MOVING OF EXISTING SITE POWER AND TELECOM POLES, POWER AND TELECOM LINES, AND OTHER ASSOCIATED EQUIPEMENT.REFER TO ELECTRICAL

PARKING RECAP

PUBLIC PARKING SPACE	36
ACCESIBLE PUBLIC PARKING SPACES	3
STAFF PARKING SPACES	28
STAFF ACCESIBLE PARKING SPACES	2
TOTAL PARKING	69



1 SITE PLAN

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

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SHEET TITLE:

ARCHITECTURAL SITE PLAN

SHEET NO:
AS-100

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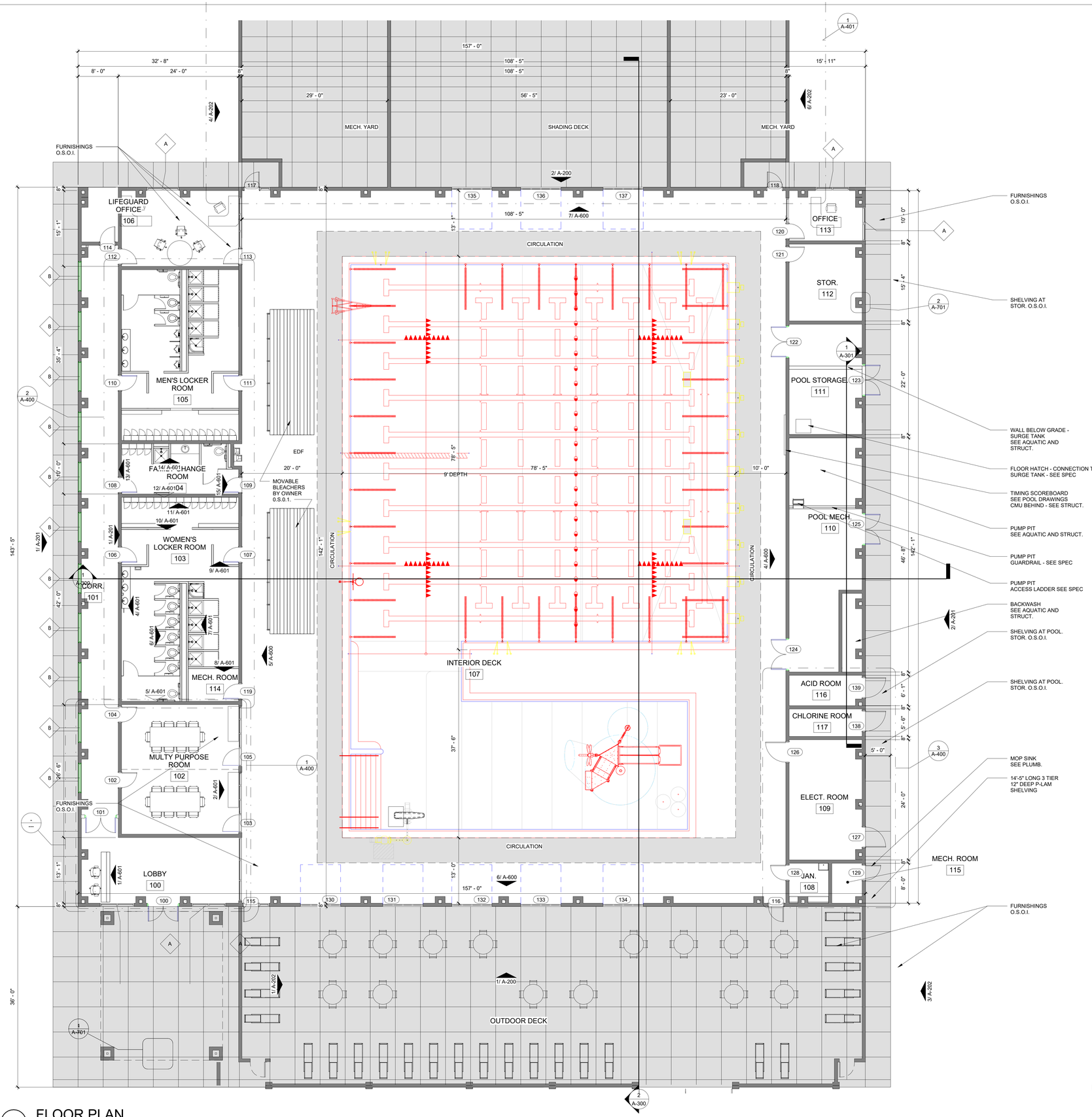

1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES

1. INTERIOR DIMENSIONS ARE TO THE FACE OF STUD, UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR EXTERIOR FRAMING, UNLESS NOTED OTHERWISE. MASONRY AND FRAMING DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
2. LOCATE DOORS 6" FROM NEAREST CORNER TO OUTSIDE EDGE OF FRAME, UNLESS NOTE/DIMENSIONED OTHERWISE.
3. ALL DIMENSIONS TO BE VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE PROMPTLY REPORTED TO THE ARCHITECT.
4. VERIFY AND PROVIDE ALL WINDOW AND DOOR OPENINGS WITH MANUFACTURER 'S ROUGH OPENING DIMENSIONS.
5. ALL SURROUNDING FLATWORK SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NOT EXCEEDING 1/50 (2%) IN ALL DIRECTIONS.
6. ALL DOOR THRESHOLDS SHALL NOT EXCEED .5".

PARTITION RATINGS

1 HOUR RATED PARTITION

2 HOUR RATED PARTITION

WALL LEGEND

8" CMU WALLS

SPRUNG STRUCTURE WALLS

MTL. STD. WALLS

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FLOOR PLAN

SHEET NO:
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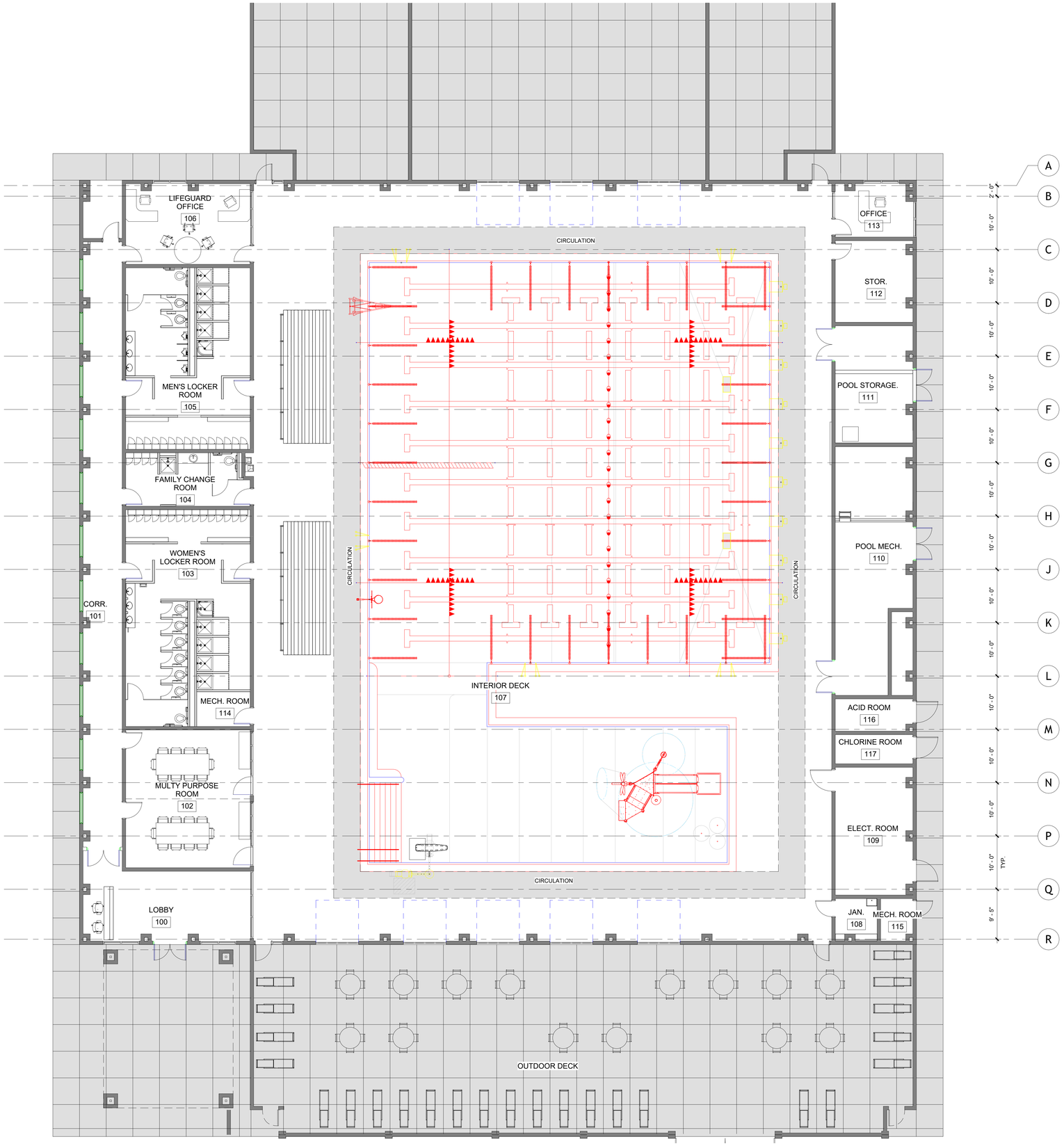

1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES

1. INTERIOR DIMENSIONS ARE TO THE FACE OF STUD, UNLESS NOTED OTHERWISE. EXTERIOR DIMENSIONS ARE TO THE FACE OF MASONRY OR EXTERIOR FRAMING, UNLESS NOTED OTHERWISE. MASONRY AND FRAMING DIMENSIONS ARE NOMINAL, UNLESS NOTED OTHERWISE.
2. LOCATE DOORS 6" FROM NEAREST CORNER TO OUTSIDE EDGE OF FRAME, UNLESS NOTE/DIMENSIONED OTHERWISE.
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4. VERIFY AND PROVIDE ALL WINDOW AND DOOR OPENINGS WITH MANUFACTURER 'S ROUGH OPENING DIMENSIONS.
5. ALL SURROUNDING FLATWORK SHALL SLOPE AWAY FROM THE BUILDING AT A SLOPE NOT EXCEEDING 1/50 (2%) IN ALL DIRECTIONS.
6. ALL DOOR THRESHOLDS SHALL NOT EXCEED .5".

PARTITION RATINGS

1 HOUR RATED PARTITION

2 HOUR RATED PARTITION

WALL LEGEND

8" CMU WALLS

SPRUNG STRUCTURE WALLS

MTL. STD. WALLS

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COL. LAYOUT PLAN

SHEET NO:
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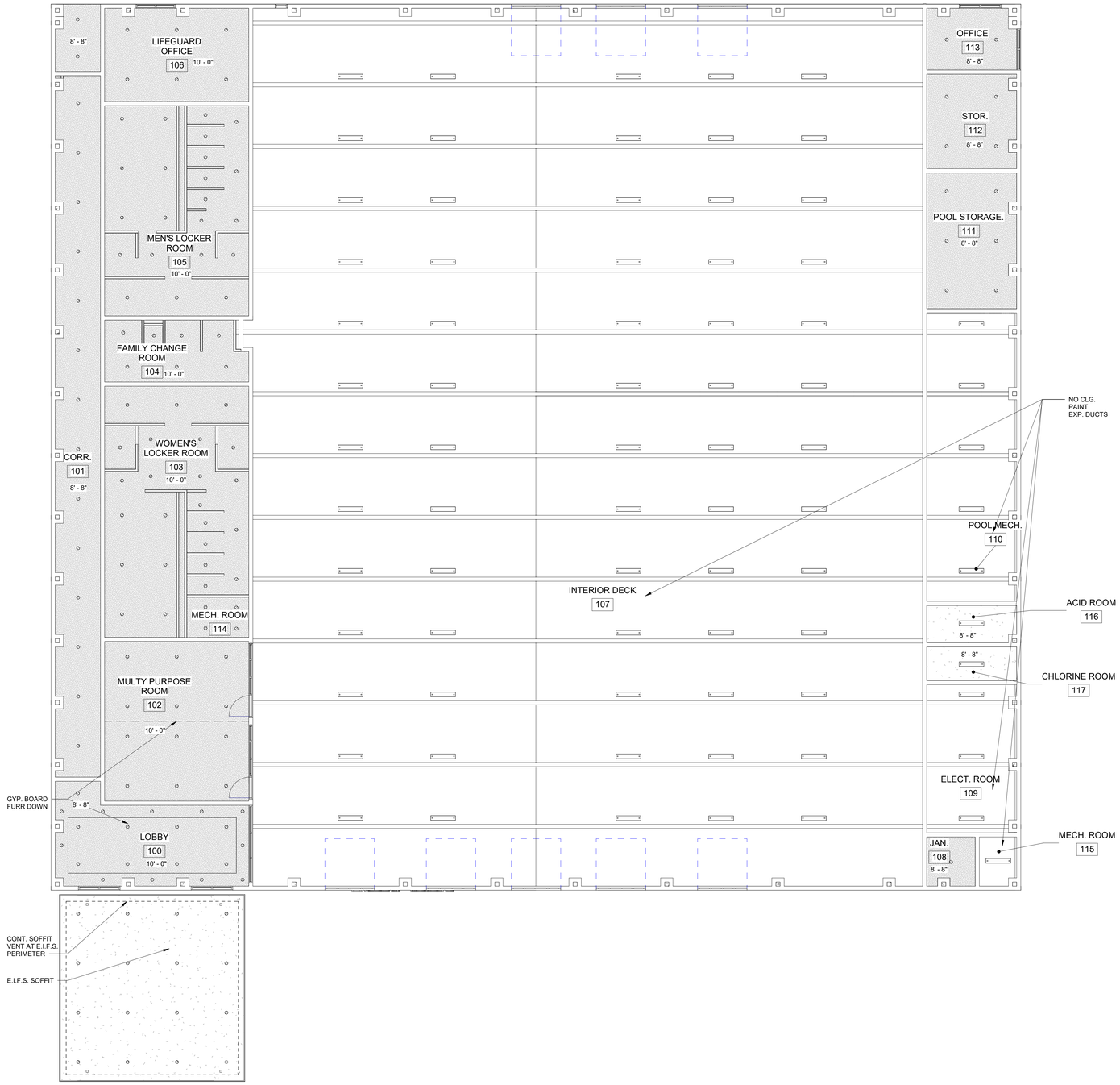
GENERAL NOTE:
COORD. ACTUAL LIGHTING LAYOUT W/ SPRUNG STRUCTURE INSTALLATION AND SPACING. LIGHTS ARE INTENDED TO HANG BETWEEN SPRUNG STRUCTURE. MOUNT LIGHTS TO BOTT. SPRUNG STRUCTURE WHEN APPROVE BY THE OWNER.



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

REFLECTED CEILING GENERAL NOTES

1. CEILING TILE, LIGHT FIXTURES, AND OTHER ITEMS SCHEDULED ON DRAWINGS MUST BE LOCATED PER REFLECTED CEILING PLANS. THE CONTRACTOR MUST USE EXTREME CARE IN COORDINATING THEIR WORK TO FIT THE PATTERN SHOWN ON THE REFLECTED CEILING PLANS. IF A CONFLICT OCCURS BETWEEN THE MECHANICAL, PLUMBING, OR FIRE SUPPRESSION SYSTEMS AND THE COORDINATION OF LIGHT FIXTURES ABOVE THE CEILING, THE CONTRACTOR MUST CONTACT THE ARCHITECT FOR INTERPRETATION. NO CHANGES WILL BE MADE WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT PRIOR TO THE COMMENCEMENT OF THE WORK.
2. SWITCHES, DIMMERS, THERMOSTATS, CONTROL DEVICES, AND COVERPLATE COLORS ARE TO BE SELECTED BY ARCHITECT.
3. CEILING ELEMENTS SUCH AS DOWNLIGHTS, SPRINKLERS, SMOKE DETECTORS, SPEAKERS, STROBES, ETC., ARE TO BE CENTERED IN THE LAY-IN CEILING TILE U.N.O.
4. REFER TO ELECTRICAL LIGHTING DRAWINGS AND SPECIFICATIONS FOR FIXTURE TYPES.
5. REFER TO REFLECTED CEILING PLANS FOR ALL CEILING HEIGHTS.
6. SUSPENDED LIGHT FIXTURES IN ROOMS AND CORRIDORS ARE TO BE CENTERED WITH THE AREA U.N.O.
7. WHERE CEILING PANELS ARE REQUIRED TO BE CUT, THE CONTRACTOR MUST MAINTAIN A SHARP AND NEAT APPEARANCE.
8. FINAL LOCATIONS OF EXIT SIGNS AND EMERGENCY LIGHTING ARE SUBJECT TO THE APPROVAL OF THE GOVERNING JURISDICTION. ANY RELOCATION MUST BE AT THE CONTRACTOR 'S EXPENSE.
9. CEILING ACCESS PANEL FINISH TO MATCH ADJACENT CEILING FINISH.
10. ALL CEILING HEIGHTS TAKEN FROM FINISH FLOOR.
11. ALL RESTROOMS SHALL BE FINISHED IN MOISTURE RESISTANT GYPSUM BOARD (WALLS & CEILINGS)
12. ACOUSTICAL CEILING TILE TO BE CENTERED IN ROOM UNLESS OTHERWISE NOTED.
13. RECESSED FIXTURES ARE TO BE CENTERED IN THE ROOM/CORRIDOR IF NO DIMENSION IS GIVEN.
14. REFER TO INTERIOR ELEVATIONS AND ELECTRICAL FOR LOCATION OF UNDER-COUNTER LIGHTING.
15. STABILIZE CEILING FANS IN BOTH DIRECTIONS IMMEDIATELY ABOVE ACT GRID.

RCP LEGEND

- GYP. BD. CEILING
- 2'-0" x 4'-0" SUSPENDED GRID WITH LAY-IN CEILING TILE. SEE FINISH SCHEDULE FOR CEILING TYPE.
- 2'-0" x 2'-0" SUSPENDED GRID WITH LAY-IN CEILING TILE. SEE FINISH SCHEDULE FOR CEILING TYPE.
- 2'-0" X 2'-0" LAY-IN LIGHT FIXTURE. REFERENCE ELECTRICAL
- 2'-0" X 4'-0" LAY-IN LIGHT FIXTURE. REFERENCE ELECTRICAL
- PENDANT LIGHT FIXTURE. REFERENCE ELECTRICAL
- RECESSED CAN LIGHT FIXTURE. REFERENCE ELECTRICAL
- WALL MOUNTED LIGHT FIXTURE REFERENCE ELECTRICAL
- EXIT LIGHT - REFERENCE ELECTRICAL
- RECESSED MOUNTED LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- LIGHTRUSS LINEAR LIGHT FIXTURE
- EXTERIOR WALL MOUNTED LIGHT FIXTURE

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REFLECTED CEILING PLAN

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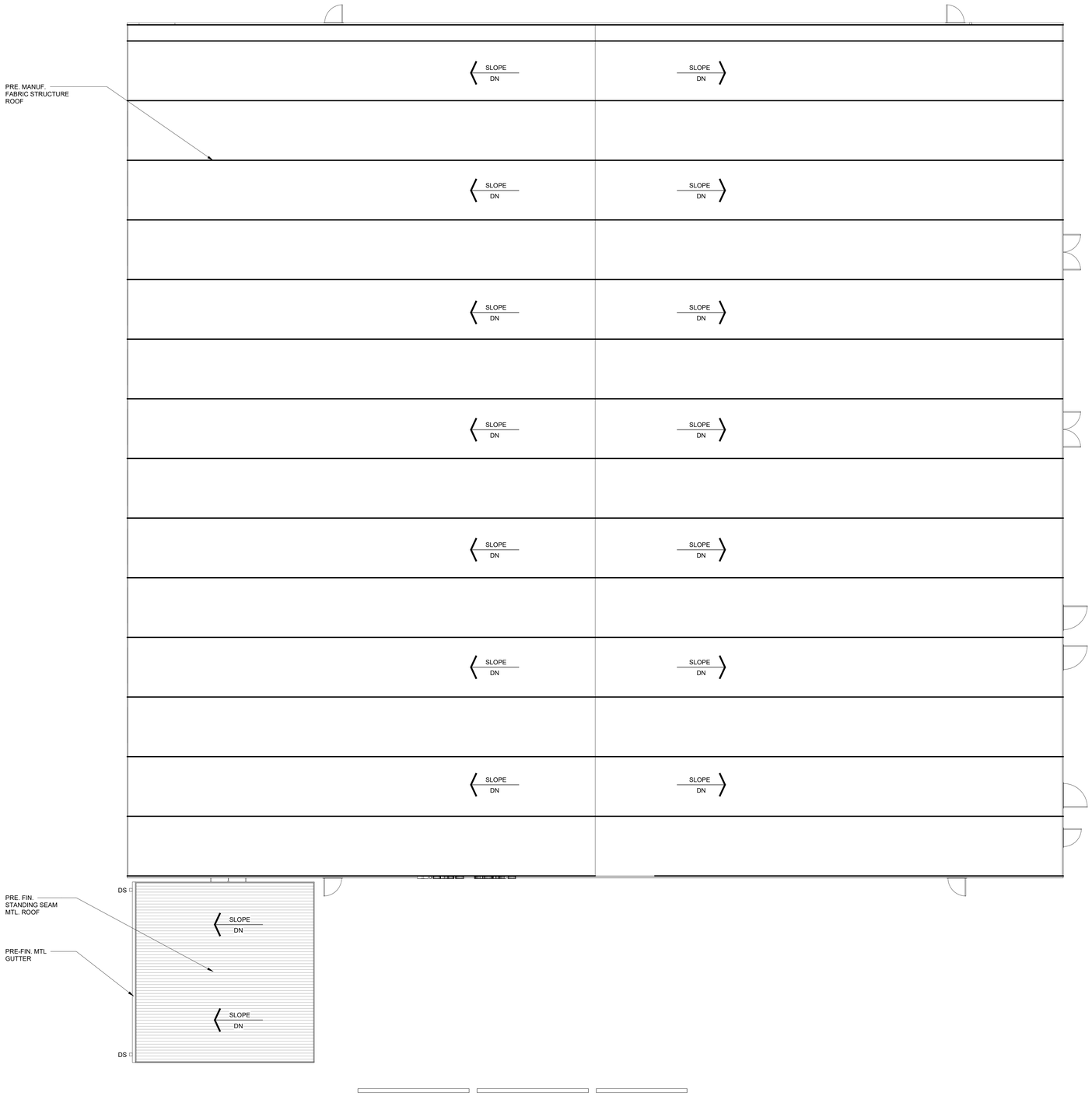

1 ROOF PLAN
SCALE: 1/8" = 1'-0"

ROOF GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF ROOFING WORK AND FOLLOWING COMPLETION OF ROOFING WORK, WATER TEST ALL ROOF DRAINS, PIPES, AND DAYLIGHTS TO STORM PIPING TO ASSURE FUNCTION AND WATER TIGHTNESS.
2. ALL ROOF PENETRATIONS CREATED WILL BE SECURED AND PROTECTED AT ALL TIMES FROM EXTERIOR ELEMENTS AND WEATHER.
3. PROVIDE FLASHING/ COUNTER FLASHING AT THE EDGES OF THE ROOF.
4. ROOF WALK PADS SHALL COMPLETELY ENCIRCLE ALL MECHANICAL UNITS.
5. MECHANICAL, ELECTRICAL, AND PLUMBING ROOF EQUIPMENT DEPICTED ON THIS SHEET IS FOR GENERAL REFERENCE ONLY.
6. PROVIDE TAPERED INSULATION CRICKETS (1/2"/FT. MIN. SLOPE) AT HIGH SIDE OF ALL MECHANICAL UNITS, SKYLIGHTS, ROOF HATCHES, AND MISC. ROOF PENETRATIONS, TO SHED WATER AROUND AND TO INSURE POSITIVE ROOF DRAINAGE.
7. ALL WOOD BLOCKING AT ROOF EDGES ARE TO BE FABRICATED FROM CONT. 2X FR-WD BOARDS. PROVIDE LARGER 2X FR-WD AS REQUIRED PER DIMENSIONED DETAIL OR AS FIELD CONDITIONS DICTATE.
8. HEIGHT OF ALL NAILERS SHALL BE FLUSH WITH NEW INSULATION THICKNESS.
9. ALL EXPOSED FLASHING, COPING AND ACCESSORIES SHALL BE PRE-FINISHES
10. ROOFER SHALL ENSURE POSITIVE DRAINAGE INTO ROOF DRAIN / GUTTER / SCUPPERS, NO PONDING OR BIRD BATHS WILL BE ALLOWED ON ROOF OR AROUND ROOF TOP EQUIPMENT - USE METHODS AND MEANS RECOMMENDED BY THE NATIONAL ROOFING CONTRACTORS ASSOCIATION.
11. PRIME AND PAINT ALL EXPOSED STEEL PIPE AND EQUIPMENT SUPPORTS.
12. PROVIDE NEW UV RESISTANT RUBBER SUPPORT BASE WITH 14 GA. GALVANIZED CHANNEL AND CLAMP FOR ALL PIPES, CONDUIT, AND/OR EQUIPMENT SUPPORTS.
13. ALL EQUIPMENT TO BE PROPERLY LEVELED AND NEW EQUIPMENT SUPPORT CURBS AND FLASHING TO BE PROVIDED.
14. ALL PARAPETS TO RECEIVE PRE-FINISHED METAL CAP. PARAPET CAP / EDGE SECUREMENT SHALL MEET ALL REQ. AS OUTLINED IN IBC 2015 SECTION 1504.5 EDGE SECUREMENT FOR LOW SLOPE ROOFS. ALL DESIGNS AND INSTALLATIONS SHALL BE TESTED FOR RESISTANCE IN ACCORDAHNCE W/ ASNI / SPRI ES-1. PROVIDE TEST RESULTS
15. ALL CURBS, FLASHING, AND MISCELLANEOUS PENETRATION TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WARRANTY GUIDELINES AND REGULATIONS.
16. REFERENCE PLUMBING DRAWINGS FOR EXACT LOCATIONS OF VENT PIPES, ETC.
17. NO PENETRATIONS PERMITTED THRU ROOF WITHIN 5'-0" OF ANY FIRE RATED WALL ASSEMBLY.
18. CONTRACTOR SHALL PROVIDE AND INSTALL ITEMS NECESSARY TO COMPLETE A NEW ROOFING SYSTEM IN ACCORDANCE WITH MANUFACTURER.
19. ALL EQUIPMENT STANDS MUST BE 18" CLEAR FROM FINISHED ROOF.
20. PROVIDE POLYURETHANE SEALANT AT ALL CONTROL JOINTS ON PARAPETS AND CAPS AS SPECIFIED.
21. REFERENCE ROOFING DETAILS. IT IS THE RESPONSIBILITY OF THE ROOFING CONTRACTOR TO PROVIDE AND INSTALL APPROVED ROOFING DETAILS PER MANUFACTURER'S WARRANTY REQUIREMENTS.
22. ALL PLUMBING VENT STACKS WITHIN 10 LINEAR FEET OF A SUPPLY AIR UNIT SHALL BE A MINIUMUM OF 5 VERTICAL FEET ABOVE THE HIGHEST POINT OF THE ADJACENT AHU. STACKS SHALL BE BRACED W/ GUIDE WIRES. THESE WIRES SHALL BE PROPERLY TIED TO THE METAL DECK WITH EYE BOLTS, AND MUST BE PROPERLY FLASHED.
23. ALL DOWNSPOUTS WHICH TERMINATE ON A ROOF ARE TO HAVE A 20 GA. GALVANIZED MTL SPLASH GUARD BETWEEN FINISHED ROOF & DOWNSPOUT. SPLASH GUARD TO BE SET IN A FULL BED OF MASTIC.
24. ALL GUTTERS AND DOWNSPOUTS TO BE PRE-FORMED, PRE-FINISHED METAL.
25. ALL WOOD BLOCKING IS TO BE FIRE RETARDANT TREATED.
26. ARROWS INDICATE DIRECTION OF DRAINAGE. ROOF SLOPE LINES ARE FOR REFERENCE AND BASED ON AVAILABLE EXIST. INFORMATION IT IS INTENDED THAT NEW ROOFING WORK SHALL FOLLOW EXISTING LINES OF ROOF DRAINAGE.
27. IF DOWNSPOUTS ARE NOT CONNECTED TO SUBGRADE DRAINAGE PIPING, PROVIDE SPLASH BLOCKS AT ALL DOWNSPOUT (DS) LOCATIONS SHOWN ON PLANS AND ELEVATAIONS.
28. GALVANIZED METAL MUST NOT BE INSTALLED OVER TREATED LUMBER.
29. UNLESS OTHERWISE NOTED, ALL EXPOSED PIPING ABOVE THE ROOF PLANE SHALL BE PRIMED AND PAINTED TO MATCH THE ROOF SURFACE. ALL EXTERIOR GAS PIPING SHALL BE PRIMED AND PAINTED O.S.H.A. YELLOW ON ROOF AND PAINTED COLOR AS SELECTED BY THE ARCHITECT WHERE VISIBLE FROM GROUND. LABEL NO LESS THAN 20'-0" INCREMENTS ON CENTER W/ CLEAR BLOCK LETTERING "NATURAL GAS" OR "PROPANE" AS IS APPROPRIATE FOR THE FUEL TYPE FOR ENTIRE LENGTH OF GAS PIPING ABOVE GRADE. PAINTING CONTRACTOR IS RESPONSIBLE FOR THE REVIEW OF ALL DRAWINGS AND SPECIFICATIONS INDICATING EXPOSED PIPING. ALL REQUIRED PAINTING OF EXPOSED PIPING SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

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FOR:
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Client Address

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ASA PROJECT NO.: 22131L
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ROOF PLAN

SHEET NO:
A-103

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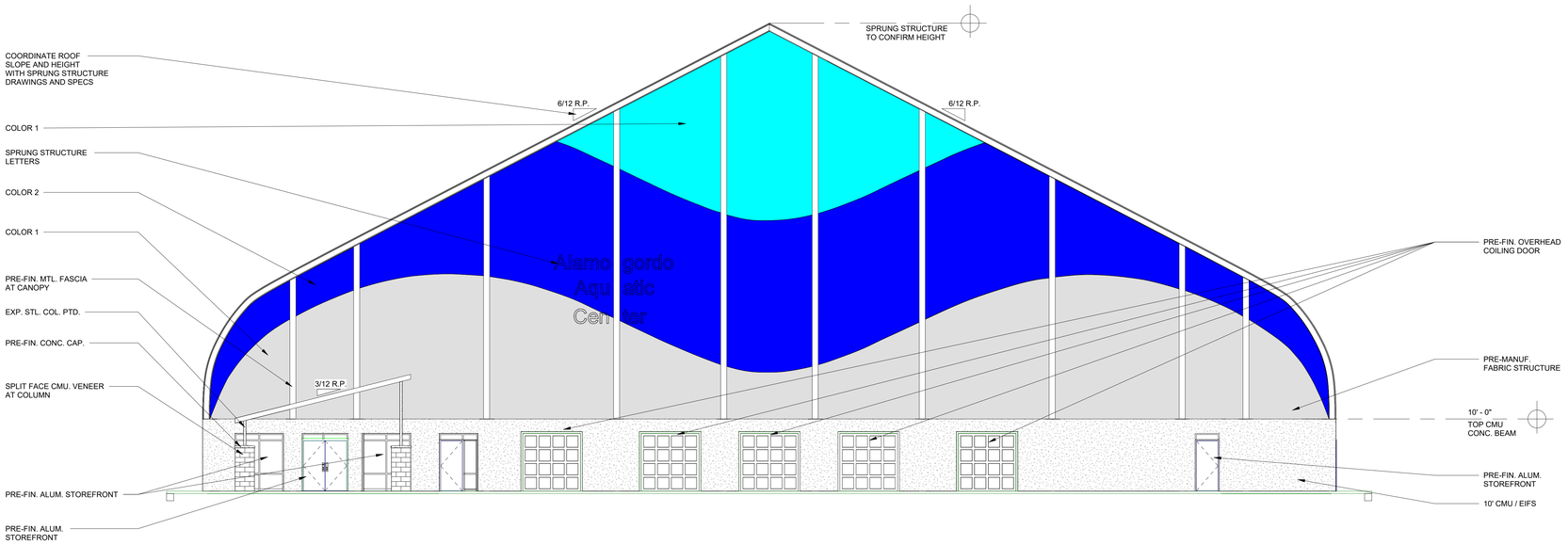

1 SOUTH ELEVATION

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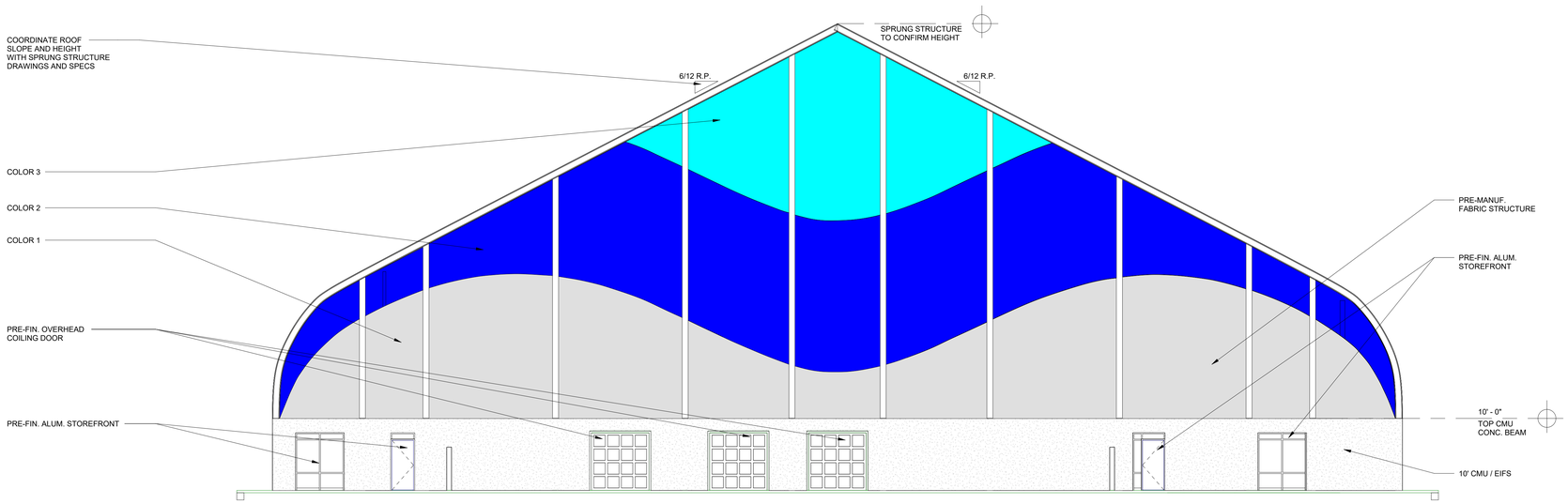

2 NORTH ELEVATION

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

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EXTERIOR
ELEVATIONS

SHEET NO:
A-200

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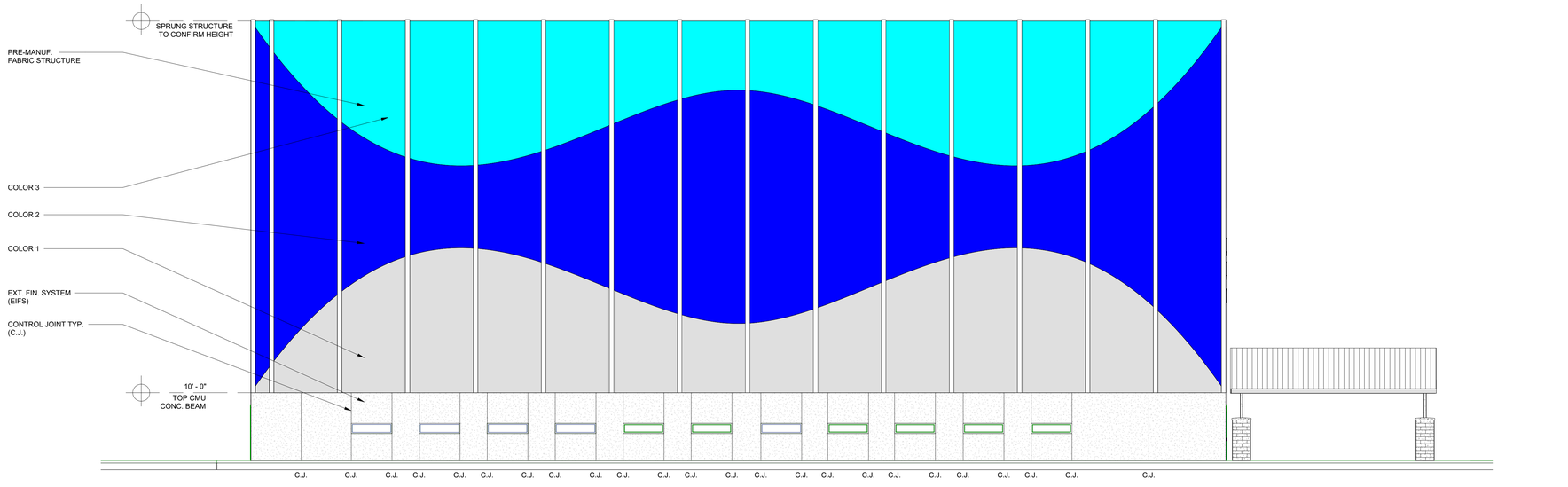

1 WEST ELEVATION

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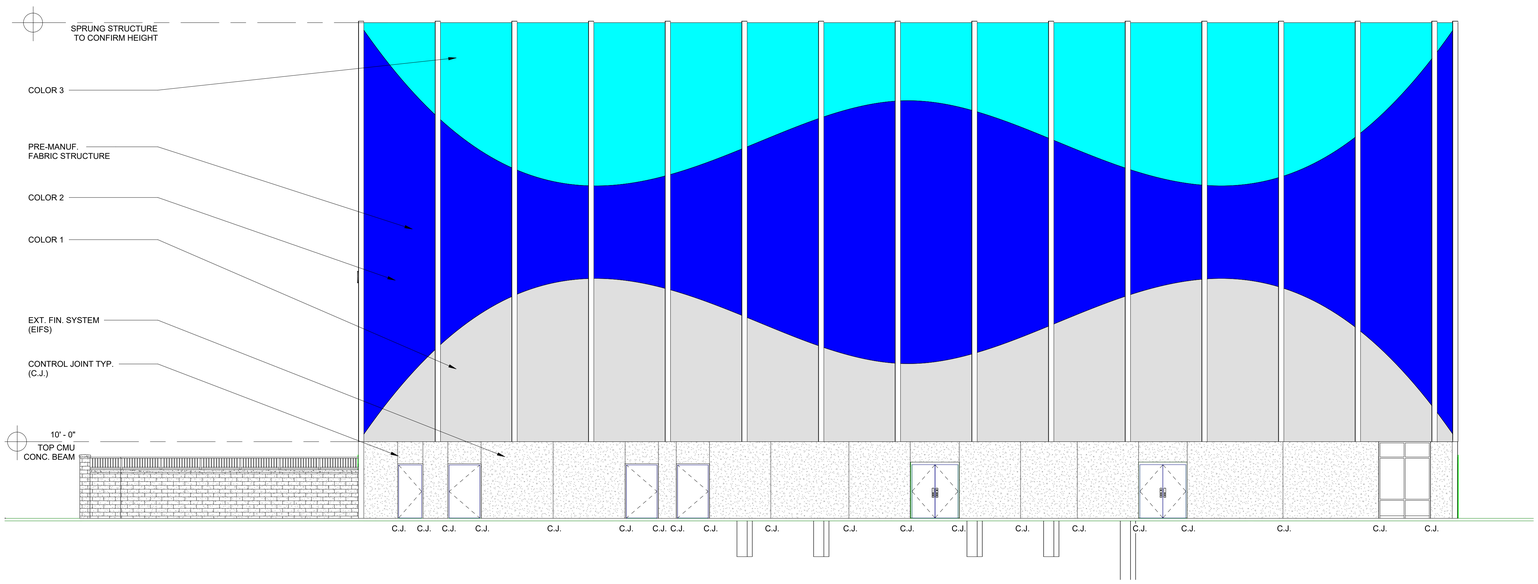

2 EAST ELEVATION

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

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EXTERIOR
ELEVATIONS

SHEET NO:

A-201

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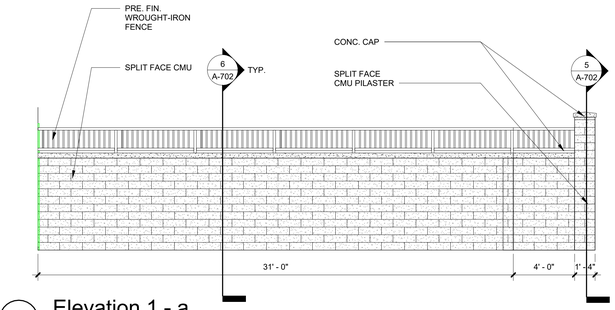

1 Elevation 1 - a
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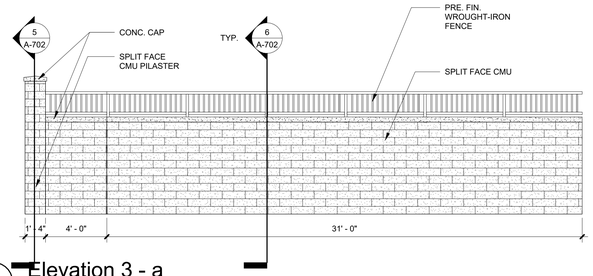

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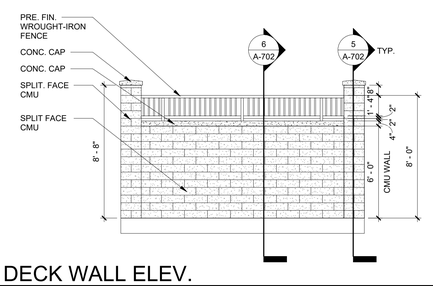

7 DTL. DECK WALL ELEV.
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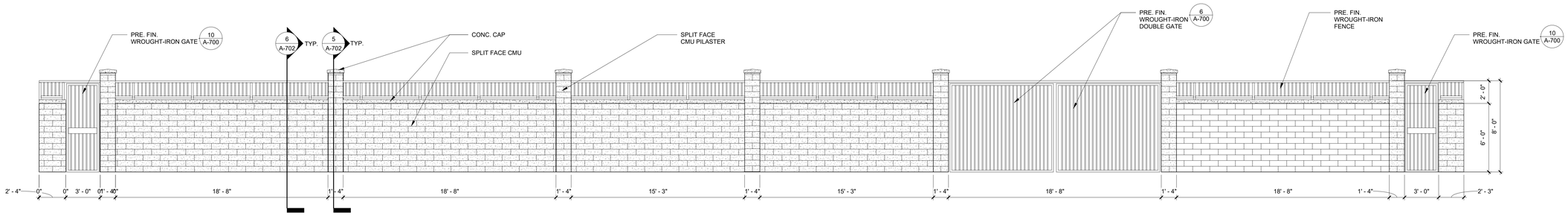

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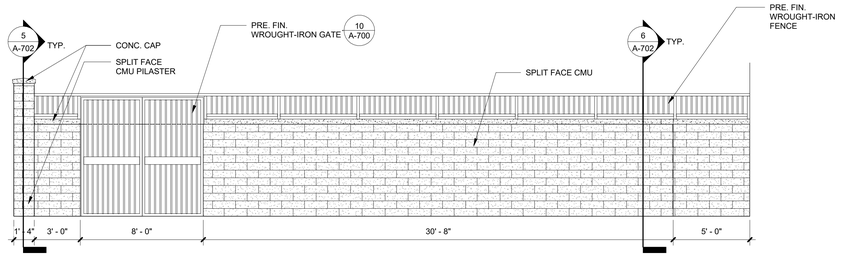

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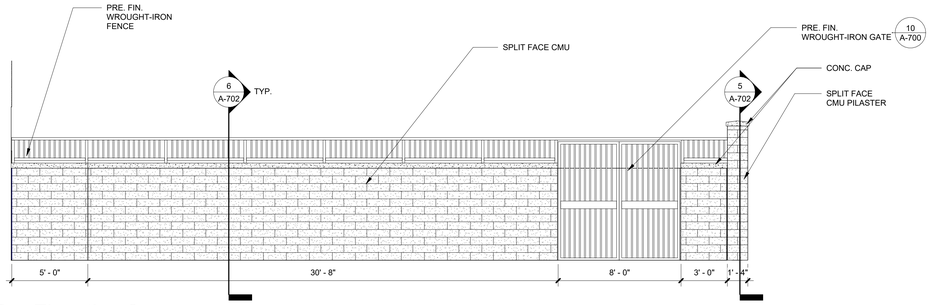

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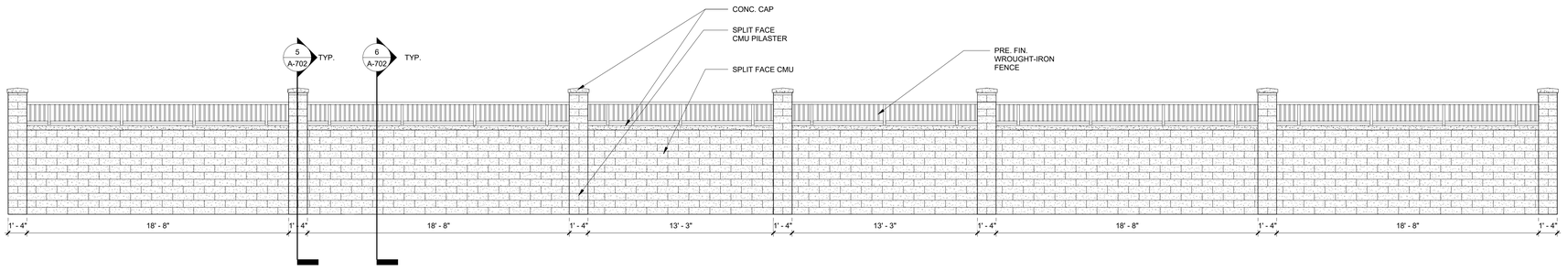

5 Elevation 5 - a
SCALE: 1/4" = 1'-0"

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EXTERIOR ELEVATIONS

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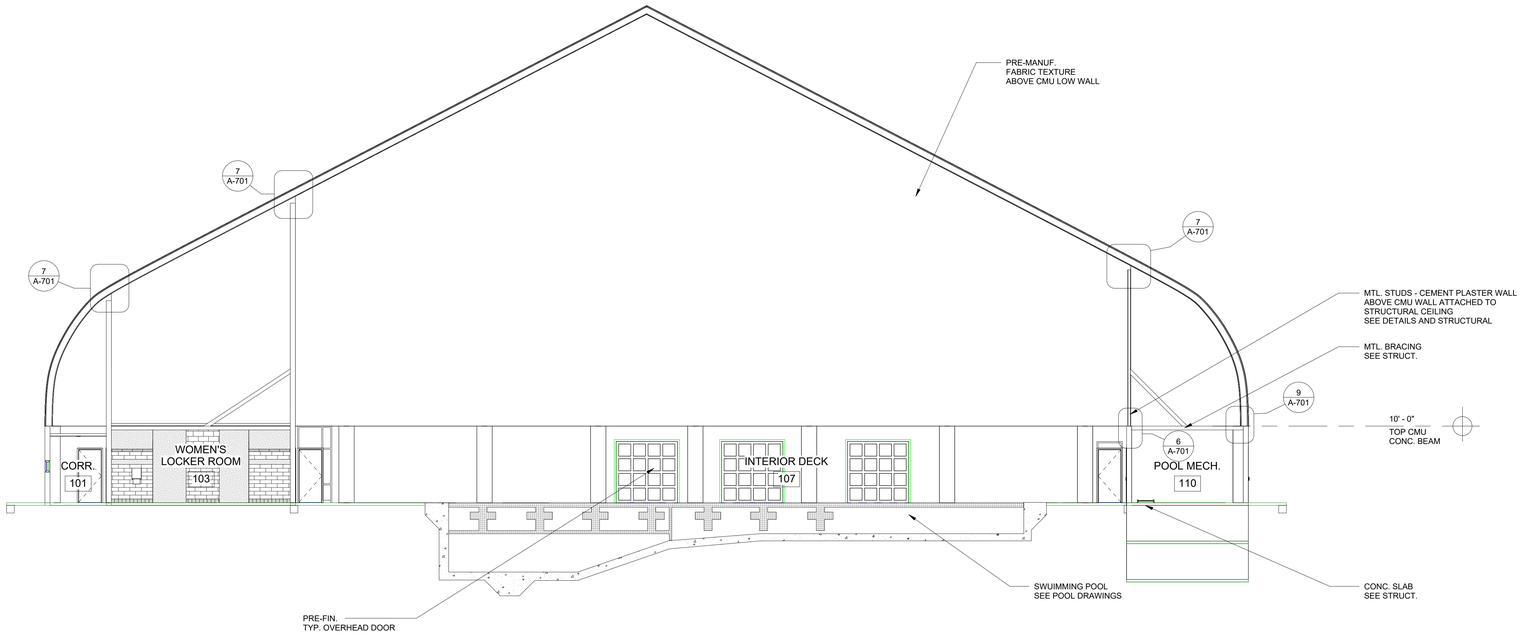

1 Section 1

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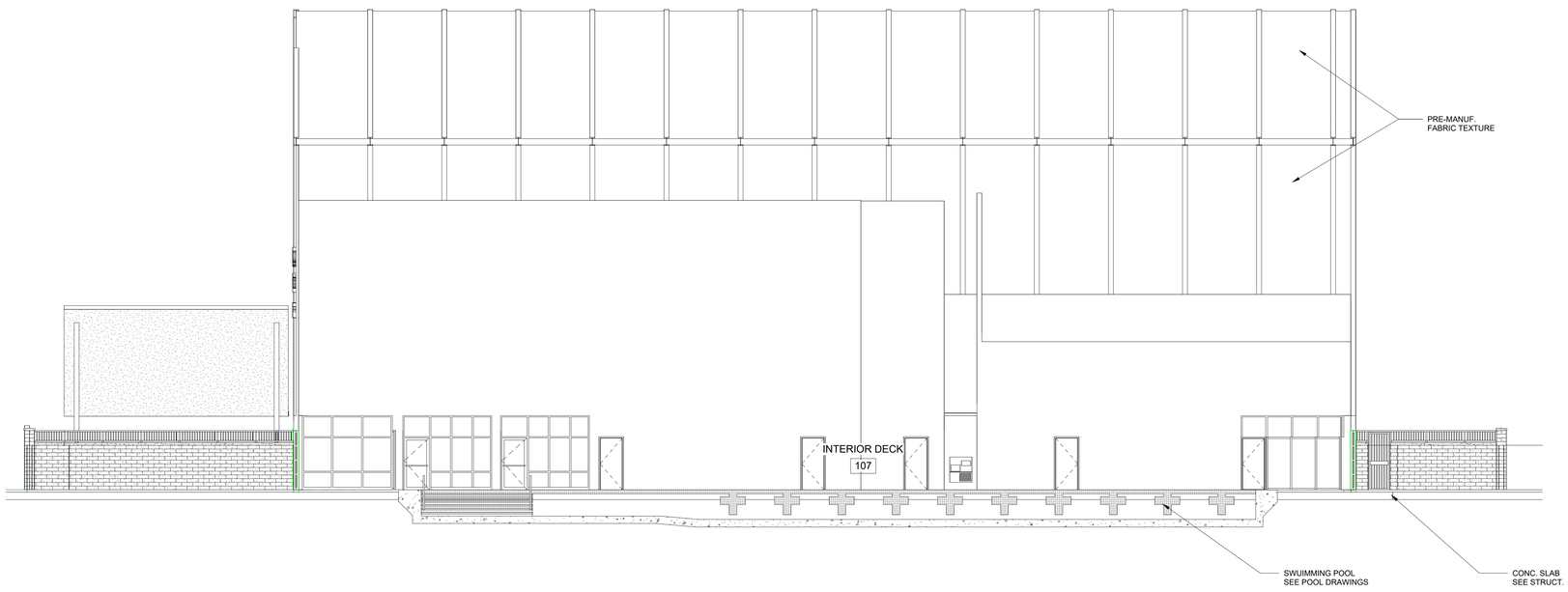

2 Section 2

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

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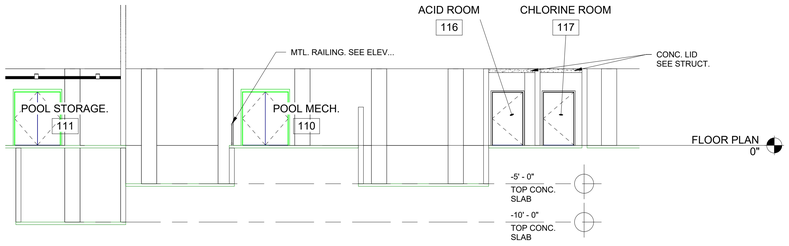

1 Detail 2

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

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BUILDING SECTIONS

SHEET NO:
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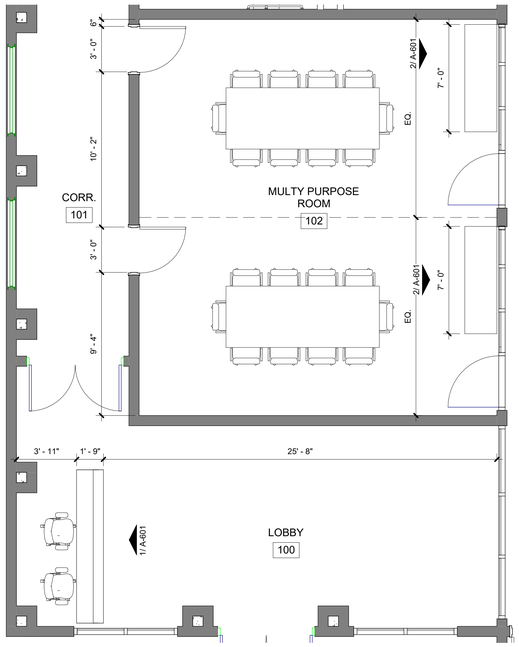

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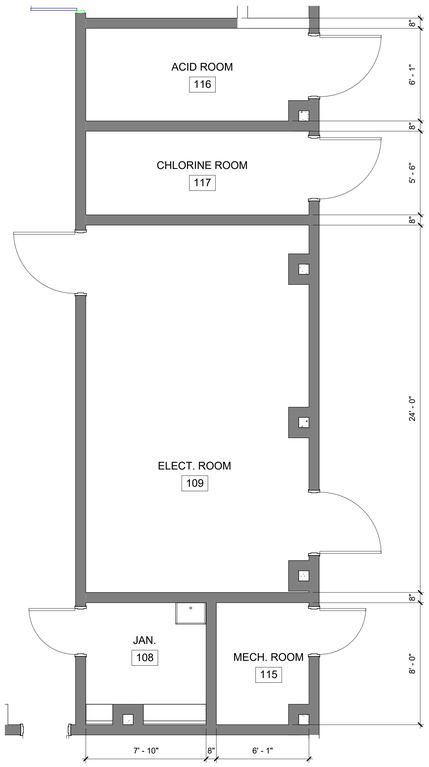

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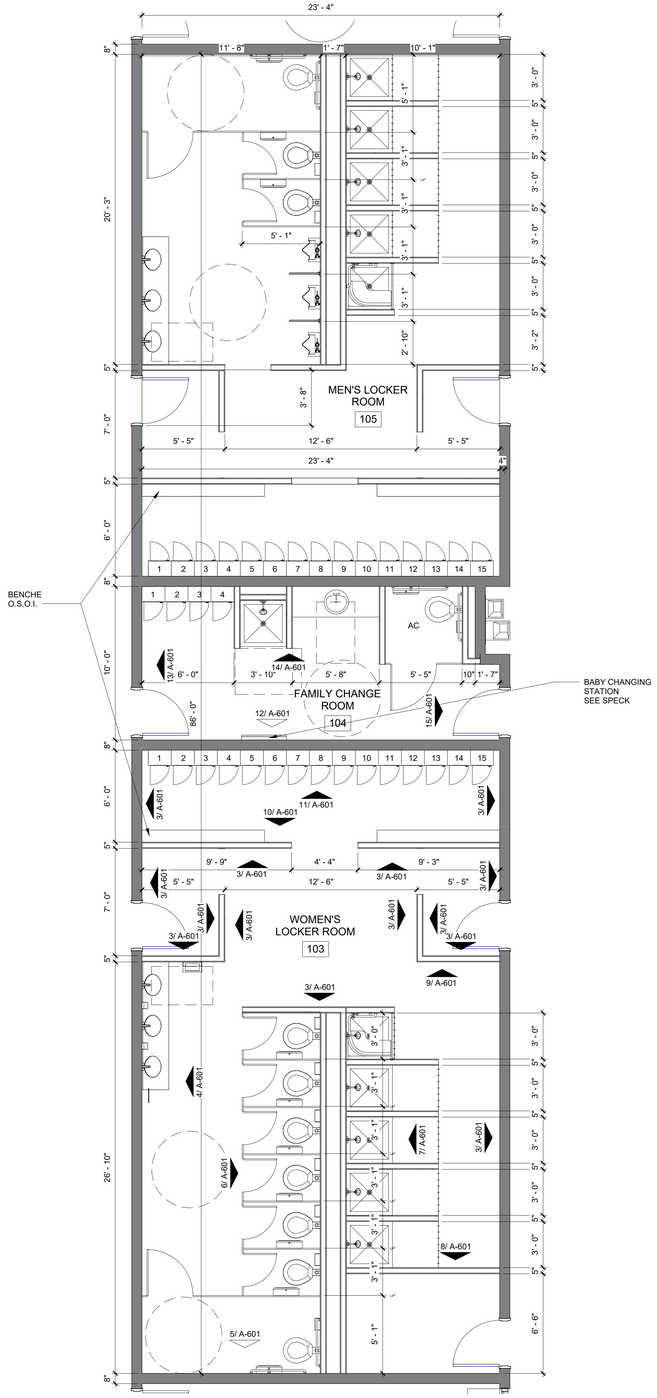

2 FLOOR PLAN Copy 1 - Callout 1
SCALE: 1/4" = 1'-0"

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ENLARGED FLOOR PLAN
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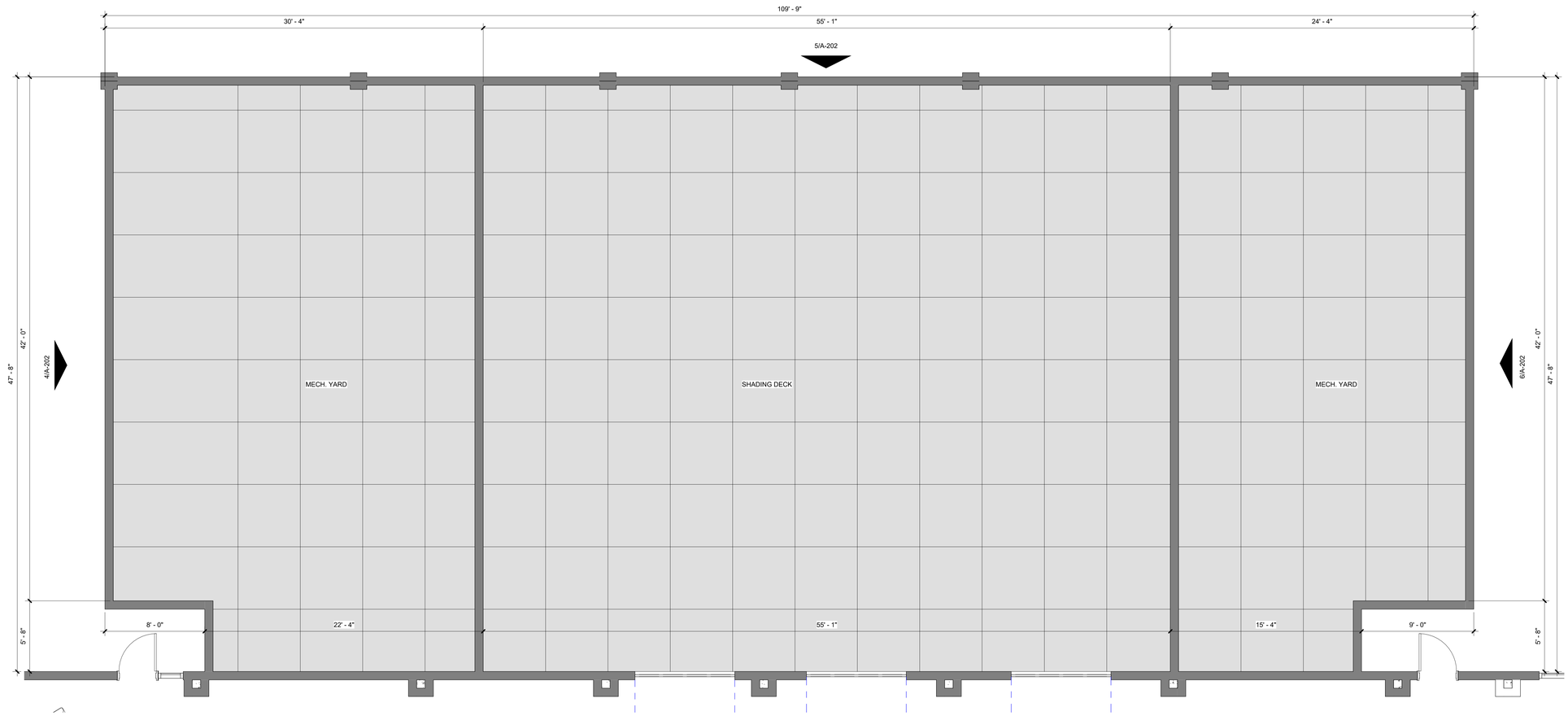

1 Detail 1
SCALE: 1/4" = 1'-0"

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ENLARGED FLOOR PLAN
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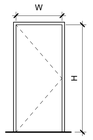
DOOR SCHEDULE NOTES



GENERAL NOTES

1. DOOR DESIGNATION ON SUBMITTALS SHALL COINCIDE WITH DOOR DESIGNATION INDICATED ON CONTRACT DOCUMENTS.
2. DOOR WITH NO DOOR DESIGNATION SHALL BE CONSIDERED A 3'-0" X 7'0" SOLID CORE TYPE D1. CONTACT ARCHITECT PRIOR TO PURCHASE FOR CLARIFICATION.
3. REFER TO SPECIFICATIONS FOR ALL HARDWARE SETS.
4. DOOR WITH NO HARDWARE SET DESIGNATION SHALL BE HARDWARE SET NO.1. CONTACT ARCHITECT PRIOR TO PURCHASE FOR CLARIFICATION.
5. DOORS WITH NO FIRE-RATED DESIGNATION BUT LOCATED IN FIRE-RATED WALLS SHALL BE CONSIDERED TO HAVE A 45 MIN FIRE RATING. CONTACT ARCHITECT PRIOR TO PURCHASE FOR CLARIFICATION.
6. UNDERCUT DOORS AS REQ. BY MECH. DWGS.
7. PROVIDE BREAK MTL. TRIM WHERE REQ. TO CONCEAL EXPOSED BLOCKING, NAILERS AND OTHER CONST. AT ALUM DOOR AND WINDOW FRAMES. BREAK MTL. COLOR SHALL MATCH ALUM. FRAME

MATERIAL DESIGNATION

HM - HOLLOW METAL

SCWD - SOLID CORE WOOD

GL - GLAZING

PTD - PAINTED

FR - FRAME

GLAZING SCHEDULE

G1	1 INCH THICK TINTED, INSULATED GLASS ; ANNEALED INTERIOR AND EXTERIOR PANES.
G2	1 INCH THICK TINTED, INSULATED GLASS ; TEMPERED INTERIOR AND EXTERIOR PANES.
G3	1/4 INCH THICK, CLEAR, ANNEALED GLASS.
G4	1/4 INCH THICK, CLEAR, TEMPERED GLASS
G5	D-20 LAMINATED GLAZING

NOTE

PROVIDE BREAK MTL. TRIM WHERE REQ. TO CONCEAL EXP. BLOCKING, NAILERS & OTHER CONSTRUCTION AT ALUM. DOOR & WINDOW FRAMES, BREAK MTL. COLOR SHALL MATCH ALUM FRAME.

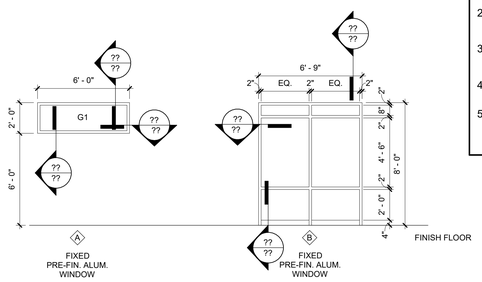
NOTE

PROVIDE WINDOW BLIND AT ALL 'A' 'B' AND 'C' TYPE WINDOWS AND STOREFRONT 'G' SEE SPEC

PROVIDE BLOCKING AS REQ FOR SECURE ATTACHMENT

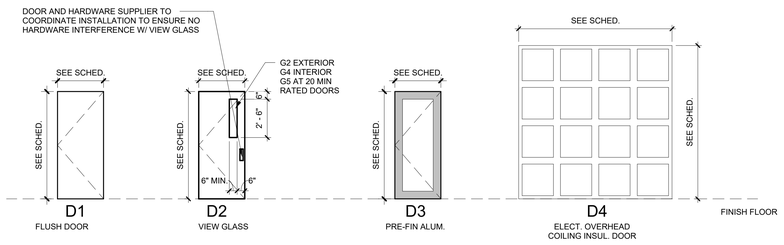
PARTITION NOTES

1. EXTEND STUDS TO BOTT. DECK. U.N.O.
2. EXTEND GYPSUM BOARD 12" MIN. ABOVE CEILING. EXTEND TYPE "X" GYP. BOARD AT RATED WALLS TO BOTT. DECK.
3. USE MOISTURE RESISTANT (M.R.) GYP. BOARD AT RESTROOMS AND ALL OTHER WET AREAS.
4. EXTEND SOUND BATT INSUL. TO 24" MIN. ABOVE CLG.
5. PROVIDE ACOUSTICAL SEALANT AT PERIMETER OF WALL TO RECEIVE SOUND BATT INSUL.



WINDOW AND STOREFRONT TYPES

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



DOOR TYPES

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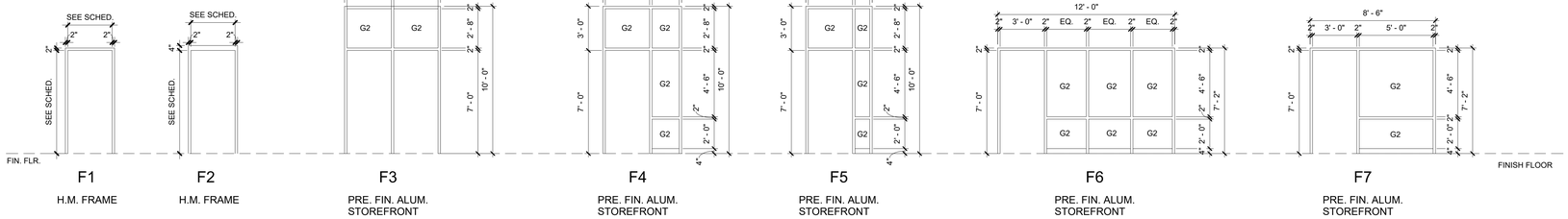
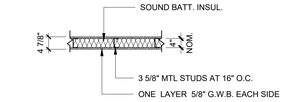


DOOR FRAME TYPES

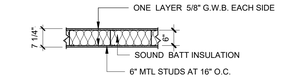
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE

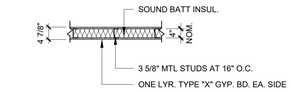
DOOR NO.	ROOM NAME	ROOM NO.	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MAT	DOOR FINISH	FRAME TYPE	FRAME MAT	FRAME FINISH	FIRE LABEL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	REMARKS
100	LOBBY	100	PR 3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F3	ALUM.	PRE-FIN.					
101	LOBBY	100	PR 3' - 0"	7' - 0"	1 3/4"	D2	H.M.	PTD.	F1	H.M.	PTD.					
102	MULTY PURPOSE ROOM	102	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
103	MULTY PURPOSE ROOM	102	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F6	ALUM.	PRE-FIN.					
104	MULTY PURPOSE ROOM	102	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
105	MULTY PURPOSE ROOM	102	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F6	H.M.	PRE-FIN.					
106	WOMEN'S LOCKER ROOM	103	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
107	WOMEN'S LOCKER ROOM	103	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
108	FAMILY CHANGE ROOM	104	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
109	FAMILY CHANGE ROOM	104	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
110	MEN'S LOCKER ROOM	105	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
111	MEN'S LOCKER ROOM	105	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
112	LIFEGUARD OFFICE	106	3' - 0"	7' - 0"	1 3/4"	D2	H.M.	PTD.	F1	H.M.	PTD.					
113	LIFEGUARD OFFICE	106	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F6	ALUM.	PRE-FIN.					
114	CORR.	101	3' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					
115	INTERIOR DECK	107	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F4	ALUM.	PRE-FIN.					
116	INTERIOR DECK	107	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F5	ALUM.	PRE-FIN.					
117	INTERIOR DECK	107	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F4	ALUM.	PRE-FIN.					
118	INTERIOR DECK	107	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F5	ALUM.	PRE-FIN.					
119	MECH. ROOM	114	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
120	OFFICE	113	3' - 0"	7' - 0"	1 3/4"	D3	ALUM.	PRE-FIN.	F7	ALUM.	PRE-FIN.					
121	STOR.	112	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
122	POOL STORAGE.	111	PR 3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
123	POOL STORAGE.	111	PR 3' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					
124	POOL MECH.	110	PR 3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
125	POOL MECH.	110	PR 3' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					
126	ELECT. ROOM	109	4' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
127	ELECT. ROOM	109	4' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					
128	JAN.	108	3' - 0"	7' - 0"	1 3/4"	D1	H.M.	PTD.	F1	H.M.	PTD.					
129	MECH. ROOM	115	3' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					
130	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
131	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
132	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
133	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
134	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
135	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
136	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
137	INTERIOR DECK	107	10' - 0"	8' - 0"		D4	SEE SPEC.	PRE-FIN.	SEE SPEC.	SEE SPEC.	PRE-FIN.					
138	CHLORINE ROOM	117	4' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					
139	ACID ROOM	116	4' - 0"	7' - 0"	1 3/4"	D1	H.M. INSUL.	PTD.	F2	H.M.	PTD.					



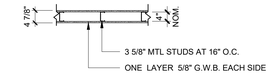
A G.W.B. ON 3 5/8" STUDS
HEIGHT: BOTT. DECK



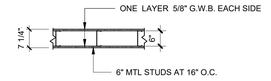
C G.W.B. ON 6" STUDS
HEIGHT: BOTT. DECK



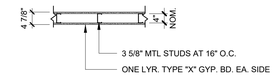
E 1 HOUR RATED WALL (3 5/8" - INSUL)
HEIGHT: BOTT. DECK



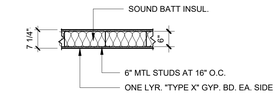
B G.W.B. ON 3 5/8" STUDS (NO INSUL)
HEIGHT: BOTT. DECK



D G.W.B. ON 6" STUDS (NO INSUL)
HEIGHT: BOTT. DECK



F 1 HOUR RATED WALL (3 5/8" - NO INSUL)
HEIGHT: BOTT. DECK



G 1 HOUR RATED WALL (6"INSUL)
HEIGHT: BOTT. DECK

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ASA PROJECT NO.: 22131L
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SHEET TITLE:

DOOR AND WINDOWS SCHEDULES / PARTITION TYPES

SHEET NO:

A-500

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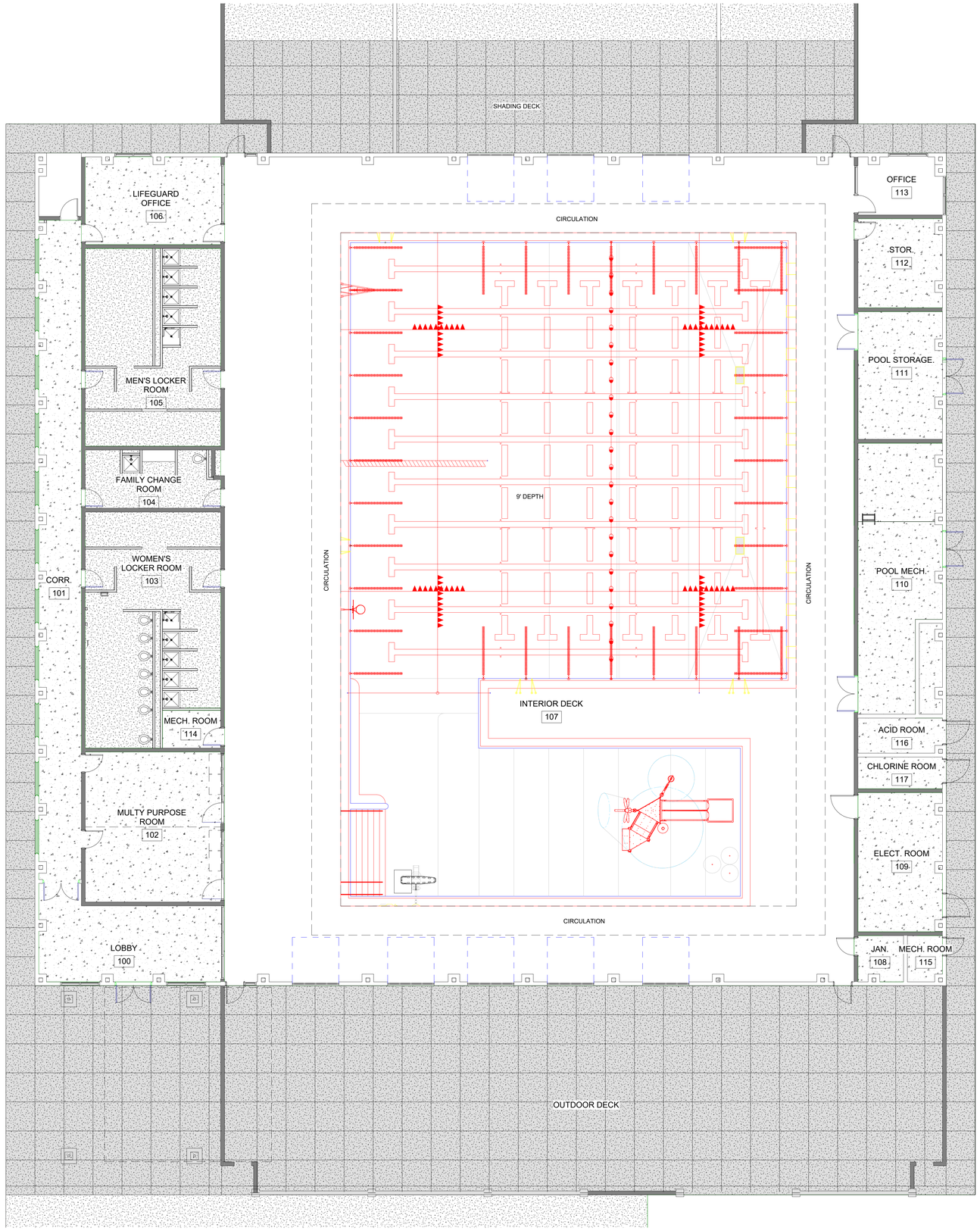

1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

FINISH SCHEDULE 1ST FLOOR

ROOM NUMBER	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
100	LOBBY	PC	RB	PTD	PTD	
101	CORR.	PC	RB	PTD	PTD	
102	MULTY PURPOSE ROOM	PC	RB	PTD	PTD	
103	WOMEN'S LOCKER ROOM	FA	FA	CT/PTD	PTD	
104	FAMILY CHANGE ROOM	FA	FA	CT/PTD	PTD	
105	MEN'S LOCKER ROOM	FA	FA	CT/PTD	PTD	
106	LIFEGUARD OFFICE	PC	RB	PTD	PTD	
107	INTERIOR DECK	SDC	RB	PTD	EXP.PTD	
108	JAN.	PC	RB	FRP	PTD	
109	ELECT. ROOM	PC	RB	PTD	EXP.PTD	
110	POOL MECH.	PC	RB	PTD	EXP.PTD	
111	POOL STORAGE.	PC	RB	PTD	PTD	
112	STOR.	PC	RB	PTD	PTD	
113	OFFICE	PC	RB	PTD	PTD	
114	MECH. ROOM	PC	RB	PTD	PTD	
115	MECH. ROOM	PC	RB	PTD	EXP.PTD	
116	ACID ROOM	PC	RB	PTD	CONC.	
117	CHLORINE ROOM	PC	RB	PTD	CONC.	

FINISHES LEGEND

FLOOR FINISH	
SDC	SUN DECK COATING
CT	CERAMIC TILE
PC	POLISHED CONCRETE
SC	SEALED CONCRETE
FA	FLUID APPLIED
BASE FINISH	
RB	RUBBER BASE
CTB	CERAMIC TILE COVE BASE
FA	FLUID APPLIED
WALL FINISH	
PTD	PAINTED
CT	CERAMIC TILE
FRP	FIBERGLASS REINFORCED WALL PANEL
CEILING FINISH	
PTD	PAINTED
CONC.	CONCRETE

NOTE:

PROVIDE CERAMIC TILE AT ALL RESTROOM WALLS. SEE TYP. WALL TILE LAYOUT ## / A-###

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FINISH PLAN AND SCHEDULE

SHEET NO:
A-501

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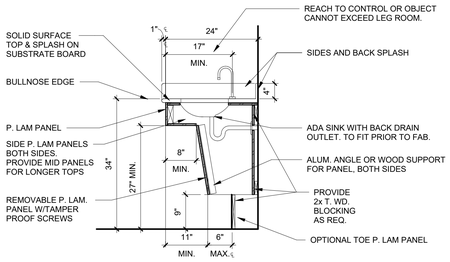
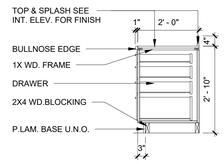


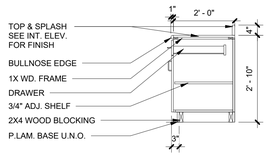
1 SINK CABINET

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



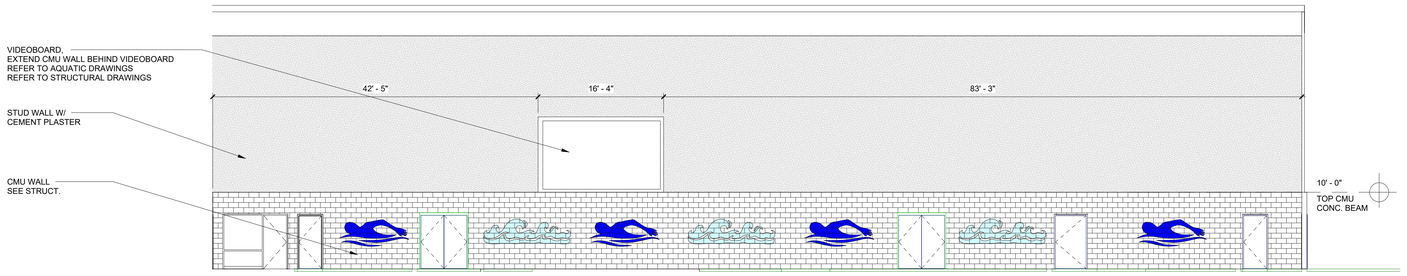
2 DRAWER SECT.

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



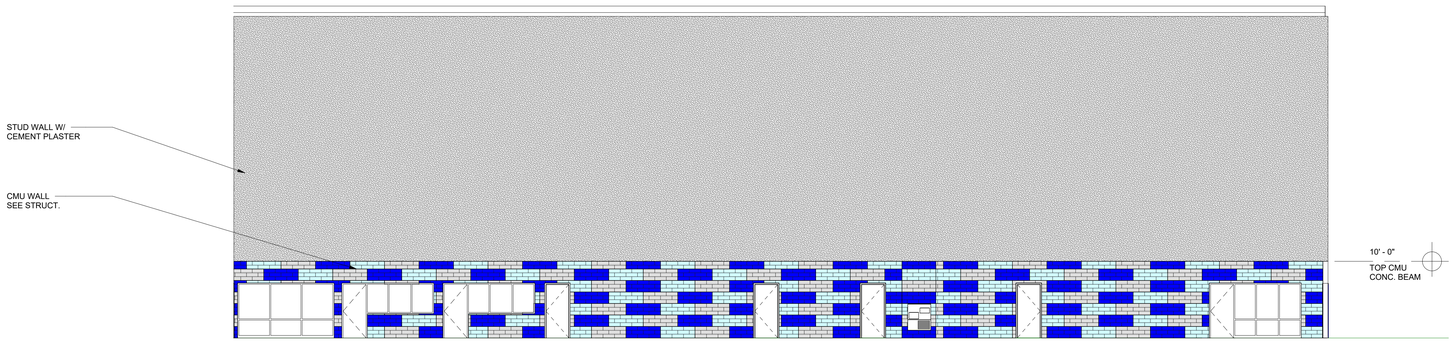
3 TYP. BASE CABINET

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



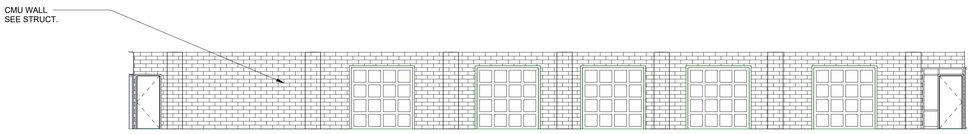
4 VIDEOBOARD ELEVATION

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



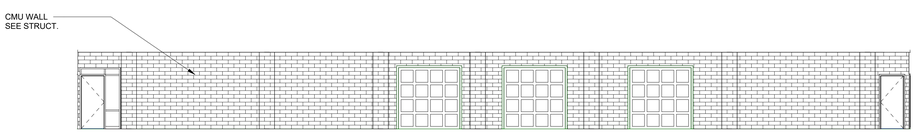
5 Elevation 7 - a

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



6 Elevation 8 - a

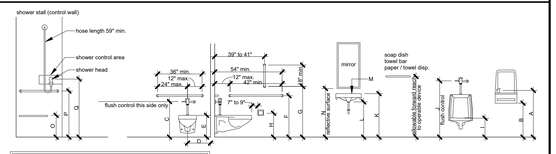
SCALE: 1/8" = 1'-0"



7 Elevation 9 - a

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

MOUNTING HEIGHTS



REFERENCE DIAGRAM ABOVE		ADULT ACCESSIBLE
	FORWARD OR SIDE REACH	
	HIGH (MAXIMUM)	48" (1220mm)
	LOW (MINIMUM)	15" (380mm)
	DRINKING FOUNTAINS & WATER COOLERS	
A	SPOUT HEIGHT TO OUTLET	36" MAX (915mm)
B	KNEE CLEARANCE (HEIGHT)	27" MAX (686mm)
	WATER CLOSETS	
C	FLUSH CONTROL	36" MAX (915mm)
D	CENTERLINE	16" TO 18" (405 TO 455mm)
E	TOILET SEAT HEIGHT	17" TO 19" (430 TO 485mm)
F	HORIZONTAL GRAB BAR HEIGHT	33" TO 36" (840 TO 915mm)
G	VERTICAL GRAB BAR HEIGHT	39" TO 41" (990 TO 1040mm)
H	DISPENSER HEIGHT	15" TO 48" (380 TO 1220mm)
	URINALS	
I	TOP OF RIM	17" MAX (430mm)
J	FLUSH CONTROL	44" MAX (1120mm)
	LAVATORIES AND SINKS	
K	RIM OR COUNTER SURFACE	34" MAX (865mm)
L	KNEE CLEARANCE	27" MAX (685mm)
M	TO FAUCETS FROM FRONT EDGE OF LAVATORIES	38" MAX (965mm)
	MIRRORS	
	NOTE: IF MIRRORS PROVIDED, 1 MUST BE FULL HEIGHT FROM 18: AFS. TO 7'4" (MIN.) HIGH W/ 30"x48" FRONT APPROACH SPACE.	
N	TO BOTTOM OF REFLECTIVE SURFACE	40" MAX. OR AS LOW AS POSSIBLE (1015mm)
	SHOWER STALLS	
O	TOP OF SEAT	17" - 19" (430-485mm)
P	GRAB BARS	33" - 36" (840-915mm)
Q	FAUCETS & OTHER CONTROLS	44" MAX (1120mm)

REFERENCES:

*2004 NMAC - TABLE E113.4

**AMERICAN NATIONAL STANDARD - 2003 (ANSI)

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INTERIOR ELEVATIONS

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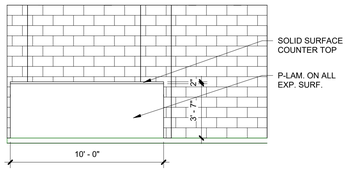
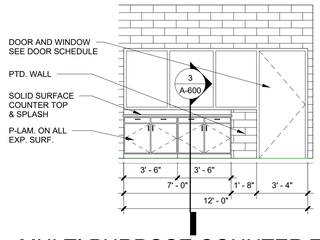


1 DESK RECEPTION
SCALE: 1/4" = 1'-0"



2 MULTI PURPOSE COUNTER TOP
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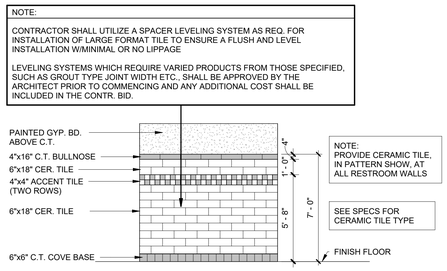
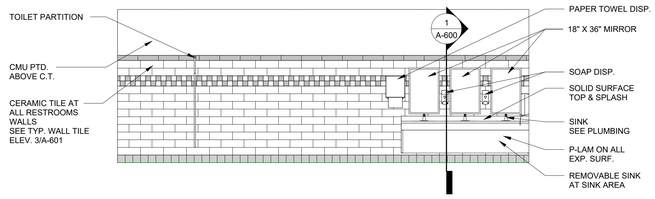
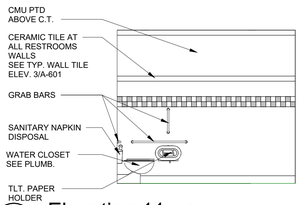


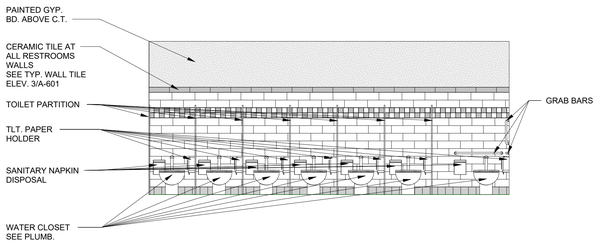
3 TYP. RESTROOM WALL TILE LAYOUT
SCALE: 1/4" = 1'-0"



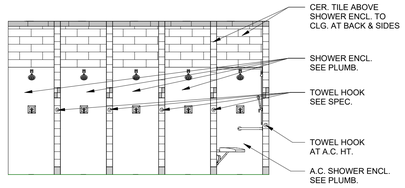
4 Elevation 10 - a
SCALE: 1/4" = 1'-0"



5 Elevation 11 - a
SCALE: 1/4" = 1'-0"



6 Elevation 12 - a
SCALE: 1/4" = 1'-0"



7 Elevation 14 - a
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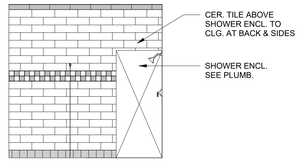
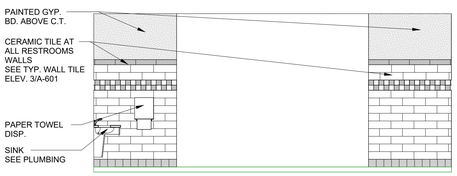
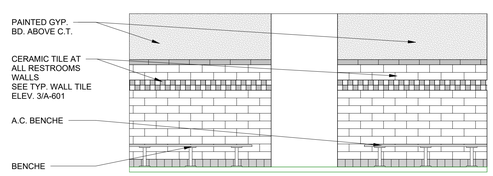


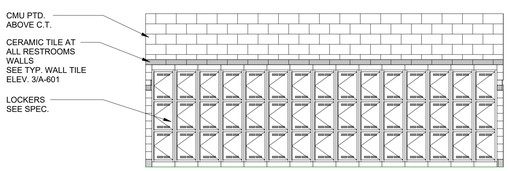
8 Elevation 15 - a
SCALE: 1/4" = 1'-0"



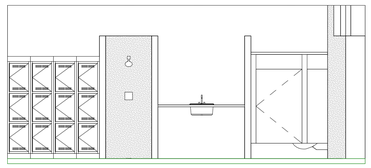
9 Elevation 17 - a
SCALE: 1/4" = 1'-0"



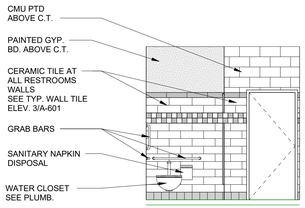
10 Elevation 18 - a
SCALE: 1/4" = 1'-0"



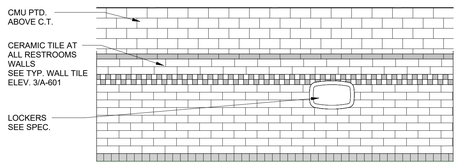
11 Elevation 19 - a
SCALE: 1/4" = 1'-0"



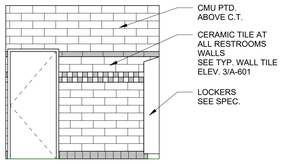
14 Elevation 22 - a
SCALE: 1/4" = 1'-0"



15 Elevation 23 - a
SCALE: 1/4" = 1'-0"



12 Elevation 20 - a
SCALE: 1/4" = 1'-0"



13 Elevation 21 - a
SCALE: 1/4" = 1'-0"

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A-601

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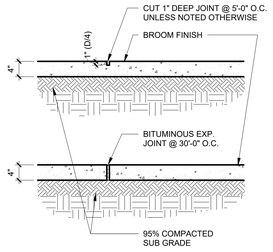
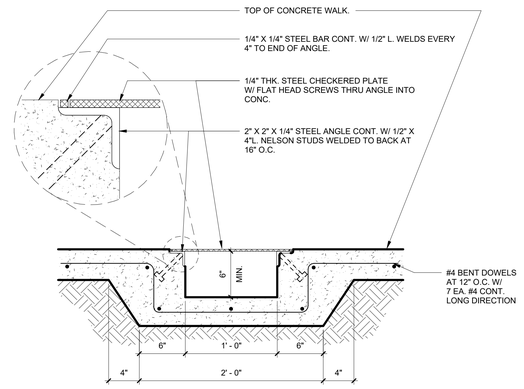
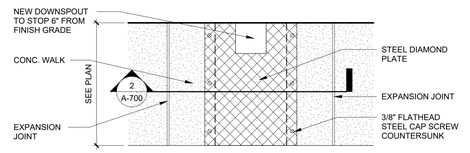


1 CONCRETE WALK
SCALE: 3/4" = 1'-0"



2 DOWNSPOUT CULVERT SECTION DETAIL
SCALE: 1 1/2" = 1'-0"



3 SIDEWALK SCUPPER DETAIL
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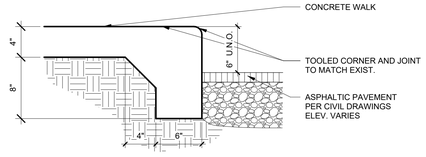

4 TURN DOWN DETAIL
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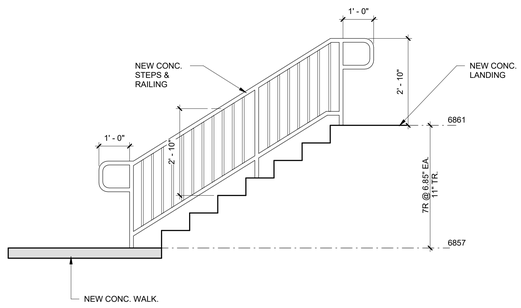
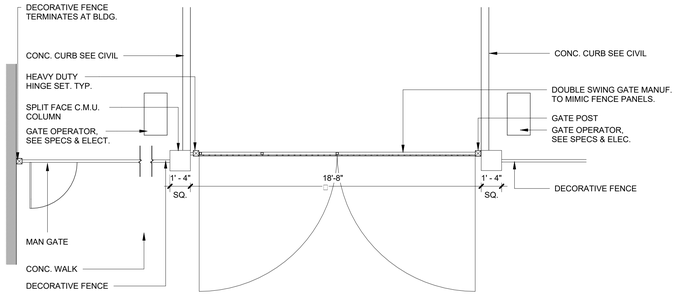
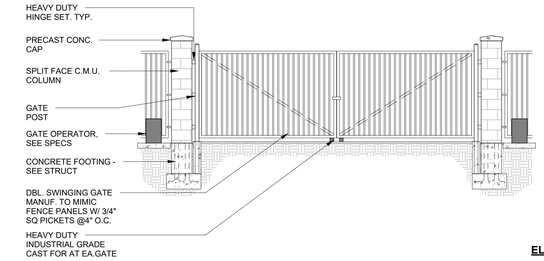


5 NEW RAILING AND CONC. STEPS DETAIL
SCALE: 1/2" = 1'-0"

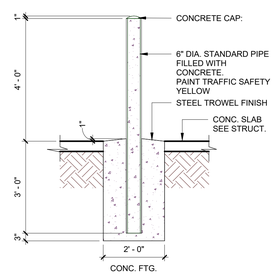


PLAN VIEW

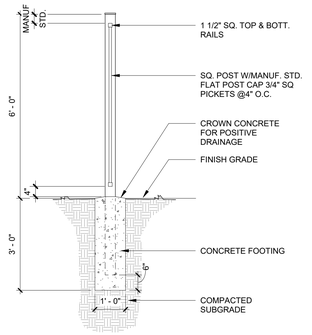


ELEVATION VIEW

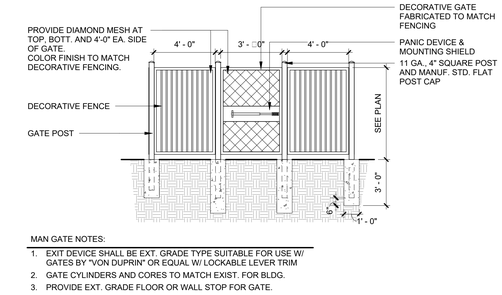
6 DECORATIVE SWINGING GATE
SCALE: 1/4" = 1'-0"



7 BOLLARD DETAIL
SCALE: 1/2" = 1'-0"

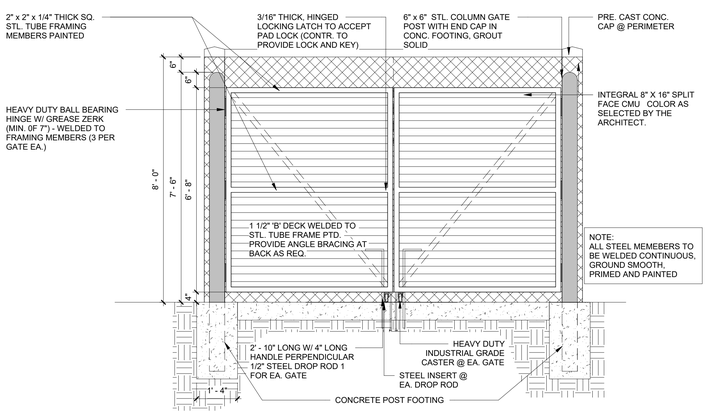


8 DECORATIVE FENCE POST
SCALE: 1/2" = 1'-0"

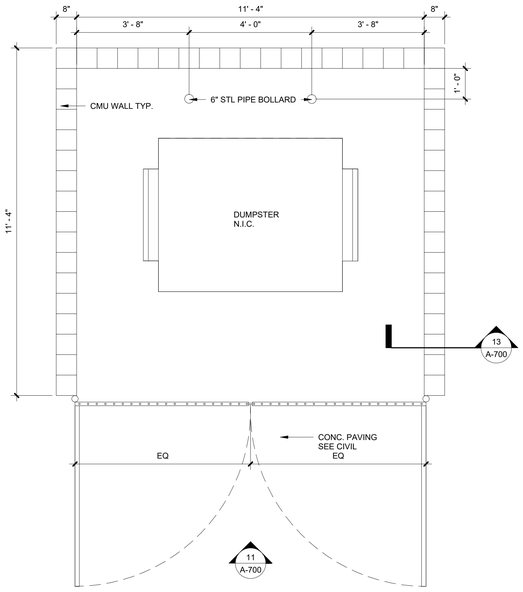


MAN GATE NOTES:
1. EXIT DEVICE SHALL BE EXT. GRADE TYPE SUITABLE FOR USE W/ GATES BY "VON DUPRIN" OR EQUAL W/ LOCKABLE LEVER TRIM
2. GATE CYLINDERS AND CORES TO MATCH EXIST. FOR BLDG.
3. PROVIDE EXT. GRADE FLOOR OR WALL STOP FOR GATE.

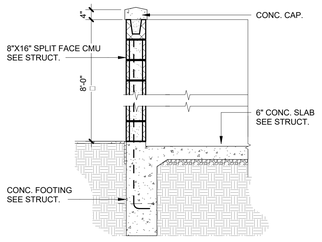
10 DECORATIVE MAN GATE
SCALE: 1/4" = 1'-0"



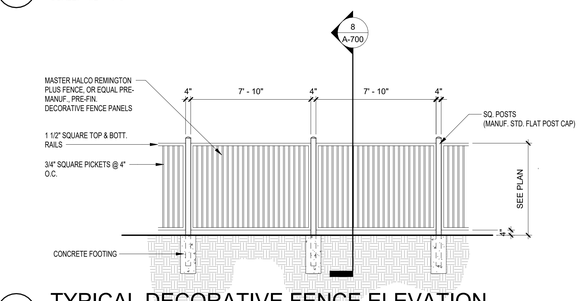
11 DUMPSTER ENCLOSURE ELEVATION.
SCALE: 1/2" = 1'-0"



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



13 DUMPSTER PARTIAL WALL SECTION
SCALE: 1/2" = 1'-0"



14 TYPICAL DECORATIVE FENCE ELEVATION
SCALE: 1/4" = 1'-0"

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ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO
Client Address

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

ASA PROJECT NO.:	22131L
PROJECT NO:	
DRAWN BY:	Author
CHECKED BY:	Checker
SHEET TITLE:	SITE DETAILS
SHEET NO:	A-700

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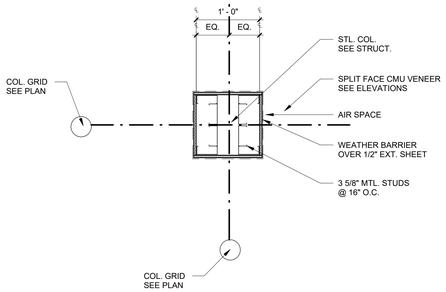
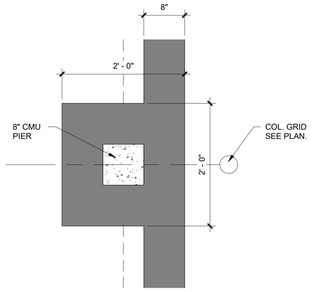
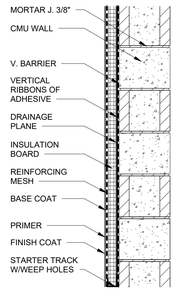


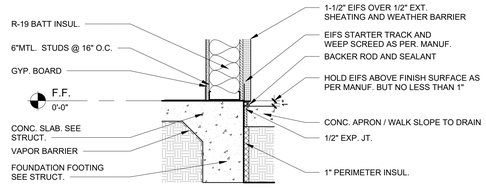
1 FLOOR PLAN - CANOPY COL.
SCALE: 1" = 1'-0"



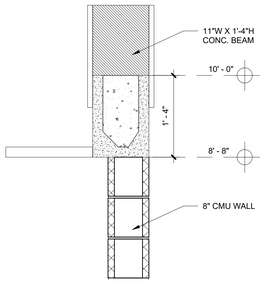
2 COL. PIER DETAIL
SCALE: 1" = 1'-0"



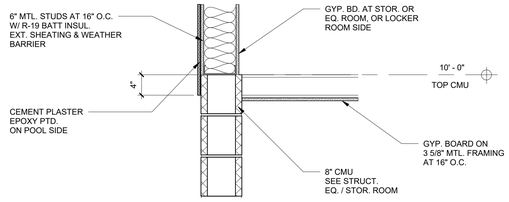
3 DTL. CMU WALL
SCALE: 1" = 1'-0"



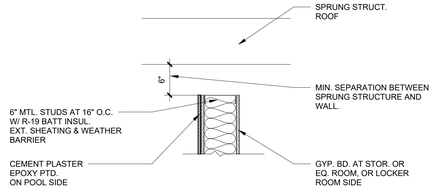
4 EIFS DETAIL AT GRADE
SCALE: 1" = 1'-0"



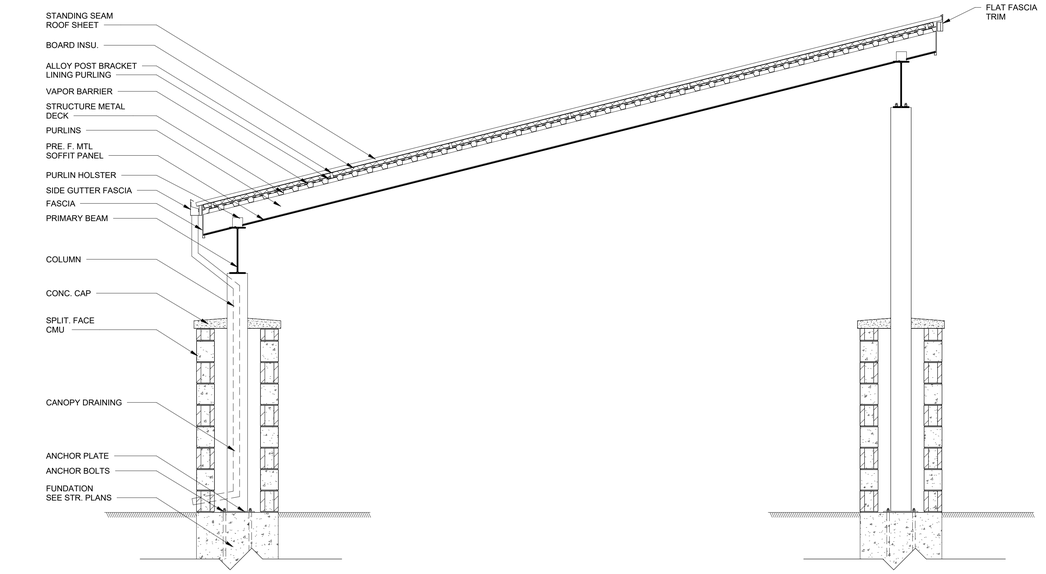
5 CONC. BEAM DETAIL
SCALE: 1" = 1'-0"



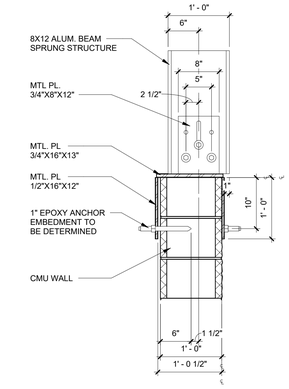
6 CMU / PLASTER WALL DTL.
SCALE: 1" = 1'-0"



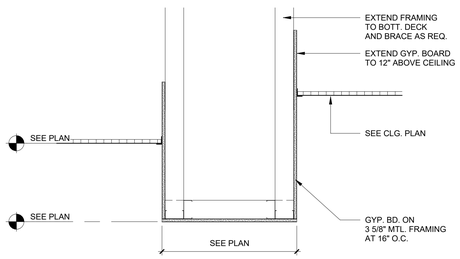
7 CMU / PLASTER WALL AT ROOF
SCALE: 1" = 1'-0"



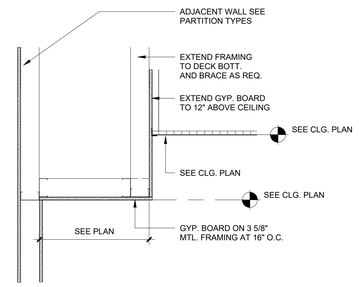
8 DTL. SECTION CANOPY
SCALE: 1/2" = 1'-0"



9 CMU TO SPRUNG STRUCTURE DETAIL
SCALE: 1" = 1'-0"



10 FURR DOWN DETAIL
SCALE: 1" = 1'-0"



11 FURR DOWN DETAIL
SCALE: 1" = 1'-0"

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CHECKED BY:	Checker
SHEET TITLE:	

DETAILS

SHEET NO:
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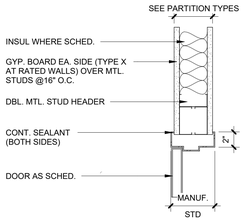
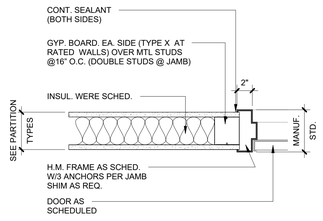


1 HEAD DETAIL (INTERIOR STUD)

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



2 JAMB DETAIL (INTERIOR STUD)

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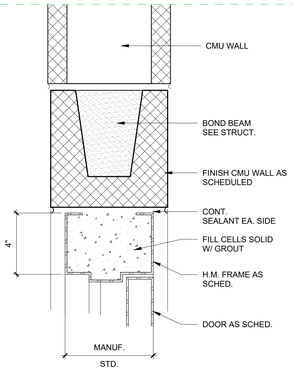
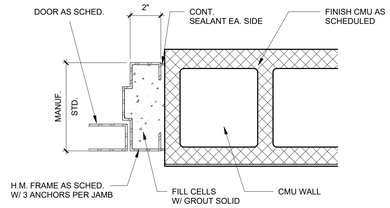


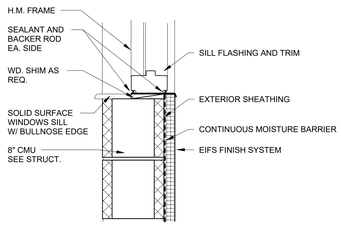
3 HEAD DETAIL - CMU

SCALE: 3" = 1'-0"



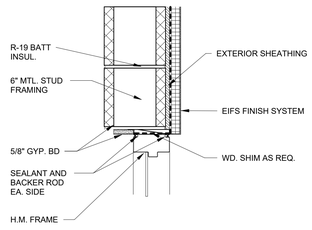
4 JAMB DETAIL - CMU

SCALE: 3" = 1'-0"



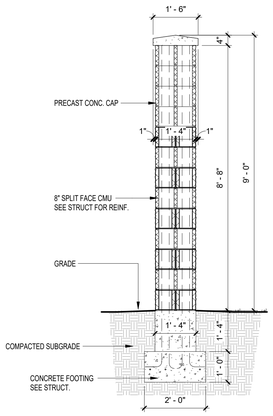
12 SILL DETAIL - CMU

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



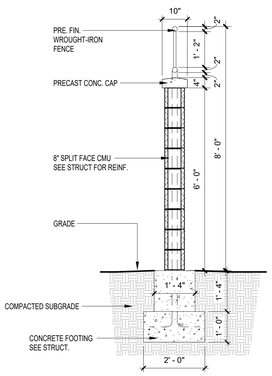
13 HEAD DETAIL

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



5 MASONRY COLUMN SECTION

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



6 MASONRY WALL SECTION

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

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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: Author
CHECKED BY: Checker
SHEET TITLE:

DETAILS

SHEET NO:
A-702

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CONSTRUCTION MANAGEMENT NOTES:

1. CITY OF ALAMOGORDO PUBLIC WORKS DEPARTMENT/CONTRACTS ADMINISTRATION (PW/CA) CONTACT NUMBER: (575) 439-4240.
2. PW/CA SHALL BE NOTIFIED 72 HOURS PRIOR TO COMMENCING ANY WORK IN THE PUBLIC RIGHT OF WAY. ALL INSTALLATIONS REQUIRE VISUAL INSPECTION AS WELL AS MATERIALS TESTING.
3. TRAFFIC CONTROL PLAN MUST BE SUBMITTED TO PW/CA CONTACT NUMBER: (575) 439-4240 72 HRS. PRIOR TO ANY SCHEDULED ROAD OR LANE CLOSURES. TRAFFIC CONTROL MUST MEET CURRENT EDITION OF MUTCD.
4. CONTRACTOR SHALL CONTACT PW/CA BEFORE ANY TRAFFIC CONTROL IS IN PLACE OR BEFORE ANY CONSTRUCTION (INCLUDING DEMOLITION) HAS BEGUN.
5. PW/CA ROADWAY INSPECTOR SHALL BE PRESENT AT THE TIME OF POTHOLING.
6. REPLACEMENT OF ASPHALTIC PAVEMENT SHALL CONFORM TO THE REQUIREMENTS OF CITY OF ALAMOGORGO - TECHNICAL STANDARDS. PAVEMENT CUTS MUST BE A STRAIGHT-LINE SAW CUT AND EXTEND FROM EXISTING JOINT TO JOINT TO THE EXTENTS POSSIBLE. EACH LINE SHALL BE MADE EITHER PERPENDICULAR OR PARALLEL TO EXISTING INFRASTRUCTURE.
7. ROADWAY SECTION SHALL MEET CURRENT CITY STANDARDS FOR DEPTH OR MATCH EXISTING DEPTH, WHICHEVER IS THICKER. ANY PAVEMENT OR CONCRETE DISRUPTION CAUSED BY THE CONSTRUCTION/DEVELOPMENT SHALL BE REMOVED AND REPLACED PER CITY STANDARDS.
8. BLUE STAKE LOCATES SHALL BE FIELD VERIFIED BY THE CONTRACTOR THROUGH POTHOLING AND COORDINATION WITH UTILITY OWNER.
9. RECORD DRAWINGS OR WORK COMPLETED SHALL BE SUBMITTED TO PW/CA PRIOR TO FINAL ACCEPTANCE OF THE INSTALLATIONS.
10. IDENTIFY CONTRACTORS WHO WILL BE REFORMING WORK AND NOTE THEIR CORRESPONDING LICENSE NUMBER.
11. IDENTIFY OWNERSHIP OF RIGHT-OF-WAY OR UTILITY LINES ON PLAN SET. SUCH AS COUNTY, CITY OR PRIVATE R-O-W AND PRIVATE OR CITY UTILITY.
12. CONTRACTOR SHALL CONTACT PW/CA BEFORE ANY TRAFFIC CONTROL IS IN PLACE OR BEFORE ANY CONSTRUCTION (INCLUDING DEMOLITION) HAS BEGAN.
13. PRIOR TO ANY DIGGING/EXCAVATION, CONTRACTOR IS REQUIRED TO POTHOLE COA UTILITIES WITH CITY INSPECTOR ON-SITE.

AMERICANS WITH DISABILITIES ACT (ADA) MINIMAL REQUIREMENTS:

1. THE GENERAL CONTRACTOR TO BECOME FAMILIAR WITH AND APPLY THE ADA MINIMAL REQUIREMENTS AND REPORT TO THE ARCHITECT/ENGINEER ANY DISCREPANCIES BEFORE CONSTRUCTION.
2. ACCESSIBLE ROUTES ON AN ACCESSIBLE SITE AND FOR NEW SITE IMPROVEMENTS SHALL BE PROVIDED TO SERVE ALL ACCESSIBLE SPACES OR ELEMENTS.
3. THE MINIMAL CLEAR WIDTH OF AN ACCESSIBLE ROUTE PER CODE IS 36".
4. EACH ACCESSIBLE PARKING SPACE IS TO BE A MINIMUM OF 14' WIDE, CONSISTING OF A 5' WIDE ACCESS AISLE AND A 9' WIDE PARKING SPACE, EACH VAN ACCESSIBLE PARKING SPACE IS TO BE A MINIMUM OF 17' WIDE, CONSISTING OF A 8' WIDE ACCESS AISLE AND A 9' WIDE PARKING SPACE. THE ACCESS AISLE SHALL BE ON THE PASSENGER'S SIDE OF THE VAN ACCESSIBLE SPACE.
5. ACCESSIBLE PARKING SPACES ARE TO BE LOCATED AS CLOSE TO THE BUILDING ENTRANCE AS POSSIBLE AND SHALL BE IDENTIFIED WITH A SIGN.
6. RAMPS MUST NOT EXTEND OUT FROM THE CURB INTO THE ACCESS AISLE ANY ACCESSIBLE PARKING SPACE.
7. TWO PARKING SPACES MAY SHARE THE SAME ACCESS AISLE.
8. ALL ADA PARKING SPACES SHALL BE STRIPED USING 4" WIDE DOUBLE LAYER OF FEDERAL BLUE PAINT, UNLESS OTHERWISE NOTED.
9. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1:50 (2.0%) IN ANY DIRECTION.
10. EACH ACCESSIBLE PARKING SPACE SHALL HAVE A IDENTIFICATION SIGN (SEE DETAIL).

RAMPS

1. AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 1:20 (5.0%) IS A RAMP AND SHALL COMPLY WITH THE RAMP REQUIREMENTS.
2. AN ACCESSIBLE ROUTE MAY CROSS OPEN PAVEMENT OR CONDITIONS, THE RUNNING SLOPE OF AN ACCESSIBLE ROUTE ACROSS OPEN PAVEMENT MUST NOT EXCEED 1:20 (5.0%), WITH A CROSS SLOPE NOT EXCEEDING 1:50 (2.0%). SLOPES EXCEEDING 1:20 (5.0%), BUT LESS THAN 1:12 (8.33%) , CONSTITUTE RAMPS AND MUST CONFORM TO THE REQUIREMENTS OF RAMP DESIGN (HANDRAILS, CURBS, LANDINGS, RISE AND RUN LIMITS, ETC.) AS DETAILED ON THE CIVIL PLANS. NO RAMP SHALL HAVE A RUNNING SLOPE EXCEEDING 1:12 (8.33%), NOR HAVE A CROSS SLOPE EXCEEDING 1:50 (2.0%).
3. THE GENERAL CONTRACTOR/CONTRACTOR SHALL MEASURE THE SUBGRADE AND ACROSS FORMS PRIOR TO INSTALLATION OF ASPHALT OR CONCRETE IMPROVEMENTS TO ASSURE THE IMPROVEMENTS WILL MEET THESE MINIMAL ADA REQUIREMENTS. ANY DISCREPANCIES SHALL BE REPORTED TO THE CIVIL ENGINEER PRIOR TO INSTALLATION OF THE IMPROVEMENTS.
4. A CURB RAMP SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE CROSSES A CURB
5. CURB RAMPS HAVE A MAXIMUM SLOPE OF 1:12 (8.33%) AND DO NOT REQUIRE HANDRAILS.
6. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS, IT SHALL HAVE FLARED SIDES; THE MAXIMUM SLOPE OF THE FLARE SHALL BE 1:12 (8.33%).

CONCRETE:

1. ALL CONCRETE SHALL BE PLACED IN A SINGLE CONTINUOUS OPERATION SO AS TO PRODUCE A MONOLITHIC SLAB/FOUNDATION BETWEEN CONSTRUCTION JOINTS.
2. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI UNLESS OTHERWISE NOTED. CEMENT SHALL CONFORM TO ASTM C150, TYPE I, II, OR III. CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33. CONCRETE SHALL BE PROTECTED FROM LOSS OF MOISTURE FOR A MINIMUM OF 7 DAYS.
3. ALL REINFORCING SHALL CONFORM TO ASTM A617, GRADE 40, AND ACI 318-89 UNLESS OTHERWISE NOTED.

UTILITIES NOTES:

1. VERTICAL SEPARATION FROM STEEL GAS LINES MUST BE A MINIMUM OF 24" FOR HIGH PRESSURE LINES AND 18" FOR LOW PRESSURE LINES. VERTICAL SEPARATION FROM WATER, POLY GAS, AND SEWER LINES MUST BE A MINIMUM OF 12". FOR TRENCH CONSTRUCTION, ADEQUATE VERTICAL SEPARATION MUST BE VERIFIED BY TRENCHING BELOW THE PROPOSED WIRE DEPTH.
   - VERTICAL SEPARATION REQUIREMENTS:
   - STEEL GAS-18" (LOW PRESSURE), 24" (HIGH PRESSURE)
   - POLY GAS LINES-12"
   - SEWER MAINS-12"
   - SEWER SERVICES LINES-6"
   - WATER MAINS-12"
   - WATER SERVICE LINES-6"
2. HORIZONTAL SEPARATION MUST BE A MINIMUM OF 5' FROM ALL COA UTILITY LINES.
3. CALL THE COA CONTRACT ADMINISTRATION OFFICE (575-528-3098) 48 HOURS OR TWO WORKING DAYS PRIOR TO CONSTRUCTION WORK.
4. PRIOR TO ANY DIGGING, EXCAVATING OR BORING, THE CONTRACTOR IS REQUIRED TO POTHOLE ALL EXISTING UTILITIES WITH A CITY INSPECTOR ON SITE.
5. CALL NM811 LOCATES AND THEN CONTACT COA CONTRACT ADMINISTRATION/COA PUBLIC WORKS CONSTRUCTION MANAGEMENT OFFICE (575-528-3098) A MINIMUM OF 48 HOURS OR TWO WORKING DAYS PRIOR TO ANY SCHEDULED WORK.

EARTHWORK:

1. ALL EARTHWORK SHALL MEET THE REQUIREMENTS ON THE "GEOTECHNICAL REPORT" AS IT IS MADE AVAILABLE.
2. PRIOR TO BEGINNING EARTHWORK OPERATIONS ALL NECESSARY CLEARING AND GRUBBING IN THAT AREA SHALL HAVE BEEN PERFORMED. THE PROJECT AREA SHALL BE CLEARED OF VEGETATION GROWTH, STUMPS, ROOTS, TRASH, DEBRIS, ROCKS OVER 3" IN DIAMETER, AND OTHER OBJECTIONABLE MATERIALS. DISPOSAL OF THESE MATERIALS SHALL ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ALL DISPOSAL ACTIVITIES SHALL BE IN CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL REGULATIONS.
3. ALL CUT AREAS SHALL BE REMOVED TO SUBGRADE ELEVATION FOR THE FULL WIDTH OF THE PROPOSED CONSTRUCTION. THE 6" LAYER OF NATIVE SUBGRADE SHALL BE SCARIFIED AND BROUGHT TO A MOISTURE CONTENT OF 2% ± OF OPTIMUM AND COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557.
4. FILL MATERIALS SHALL BE PLACED IN 12" LOOSE LIFTS NOT TO EXCEED 9" IN DEPTH WHEN COMPACTED. FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DELETERIOUS SUBSTANCES. THE FILL MATERIAL UNIFIED SOILS CLASSIFICATION SYSTEM CLASSIFIED MATERIAL TYPE GW, GP, SW, SP, GM, SM, OR GC AND SHALL MEET THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING
4"	100%
3/4"	70 - 100%
#4	30 - 70%
#200	5 - 25%
PLASTIC INDEX	20 MAXIMUM

   WHERE FILL IS TO BE PLACED ON SLOPES STEEPER THAN ONE (1) VERTICAL TO FIVE (5) HORIZONTAL, THE GROUND SURFACE SHALL BE BENCHED TO PROVIDE A FIRM BOND WITH THE FILL. NO FILL MATERIAL SHALL BE PLACED, SPREAD OR ROLLED WHILE IT IS FROZEN OR THAWING, OR DURING UNFAVORABLE WEATHER CONDITIONS.
5. CONTRACTOR RESPONSIBLE FOR ALL SITE MATERIAL TESTING. TEST REPORTS TO BE SUBMITTED TO THE ENGINEER AND OWNER TO BE INCLUDED IN FINAL DOCUMENTATION.

GRADING NOTES:

1. CONTRACTOR RESPONSIBLE FOR ALL SITE MATERIAL TESTING. TEST REPORTS TO BE SUBMITTED TO THE ENGINEER AND OWNER TO BE INCLUDED IN FINAL DOCUMENTATION.
2. ALL STATIONING IS CENTERLINE STATIONING. STATIONS ALONG CURVES ARE RADIAL.
3. ALL ROADWAY CONSTRUCTION SHALL MEET THE REQUIREMENTS AND STANDARDS SPECIFICATIONS OF THE CITY OF ALAMOGORDO ROAD CONSTRUCTION, CURRENT EDITION.
4. EXISTING AND FINISHED TOPOGRAPHIC INFORMATION SHOWN AT 1 FOOT INTERVALS. FINISH TOPOGRAPHY IS APPROXIMATE AND DOES NOT CONSIDER CURBS AND OTHER DETAIL CHANGES. DEFER TO SPOT ELEVATIONS WHERE PROVIDED.
5. ALL GRADING SHALL BE MINIMUM OF 4:1 SLOPES OR FLATTER UNLESS OTHERWISE NOTED. ALL CUT AND FILL TRANSITIONS SHALL BE ROUNDED. CONSTRUCTION SLOPES WHICH EXCEED 4H:1V SHALL BE PROTECTED.
6. PROVIDE SMOOTH DRIVING TRANSITION AT ALL INTERSECTION.
7. ALL SPOT ELEVATIONS ARE FINISH DESIGN GRADES UNLESS OTHERWISE NOTED.
8. SUBGRADE AND BACKFILL MATERIALS FOR FOUNDATION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MODIFIED PROCTOR AS DETERMINED BY ASTM STANDARD D1557.
9. BACKFILL MATERIALS TO BE PLACED UNDER CONCRETE SLABS SHALL BE A GRANULAR SOIL. EXPANSIVE TYPE SOILS ARE PROHIBITED AS BACKFILL MATERIALS.
10. ALL CONCRETE SHALL BE PLACED IN A SINGLE CONTINUOUS OPERATION SO AS TO PRODUCE A MONOLITHIC FOUNDATION WHERE APPLICABLE.
11. CEMENT SHALL CONFORM TO ASTM TYPE V SULFATE RESISTANT PORTLAND CEMENT.
12. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI. CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33. CONCRETE SHALL BE PROTECTED FROM LOSS OF MOISTURE FOR AN ADEQUATE AMOUNT OF TIME TO PREVENT CURING TENSION CRACKS FROM FORMING IN THE FOUNDATION. FOUNDATIONS OR SLABS SPECIFIED TO HAVE AIR ENTRAINMENT SHALL NOT BE STEEL TROWEL FINISHED. CONCRETE SHALL NOT HAVE A SLUMP IN EXCESS OF 4 INCHES PRIOR TO PLACEMENT. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCHING.
13. ALL SIGNAGE SHALL BE IN CONFORMANCE WITH CITY OF ALAMOGORDO STANDARDS, INCLUDING SIGN POST.

SITE DRAINAGE:

1. THE FLOW ARROWS SHOWN ON THE SITE GRADING DRAWING(S) INDICATE THE GENERAL DIRECTION OF SURFACE RUNOFF. THE CONTRACTOR SHALL NOT CONSTRUCT LOW POINTS IN PAVED SURFACES THAT ALLOW SURFACE RUNOFF TO POND.
2. STORM WATER SHALL NOT BE ALLOWED TO POND WITHIN 10 FEET OF ANY BUILDING FOUNDATION SYSTEM.
3. THE CONTRACTOR SHALL NOT ALLOW SURFACE RUNOFF TO CAUSE EROSION DAMAGE TO EARTHWORK AREAS DURING CONSTRUCTION.

EROSION CONTROL NOTES:

1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
2. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
3. THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE.
4. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6" DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, OR OTHER SUITABLE DEVICE WHICH WILL INSURE ADEQUATE UNIFORM TRENCH DEPTH.
5. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8" OF THE CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6" DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.
6. SEAMS BETWEEN SECTIONS OF THE SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.
7. SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
8. SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN FABRIC IS AT 50% CAPACITY.
9. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR COMPLIANCE TO THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM.

DUST CONTROL PLAN:

1. DEVELOPMENT TO COMPLY WITH CITY OF ALAMOGORDO ORDINANCE BY USE OF THE FOLLOWING RACMS (COMPLETE DUST CONTROL PLAN INCLUDED IN STORM WATER POLLUTION PREVENTION PLAN): PRIMARY: STABILIZED CONSTRUCTION ENTRANCE(S) AND CONTINUOUS WATER APPLICATION (BY WATER TRUCK ON AT LEAST A DAILY BASIS DURING WINDY DAYS, PRIMARILY SPRING MONTHS OR AS NEEDED TO MINIMIZE FUGITIVE DUST). ANCILLARY: DUST SUPPRESION WITH POLYMER - WATERING TO INCLUDE ENVIROTAC II SOIL STABILIZER (OR SIMILAR PRODUCT) APPLIED PER THE MANUFACTURERS RECOMMENDATIONS ON PRODUCT LABEL (WATER TO PRODUCT RATIO OF 8:1 AT 110 GALLONS PER ACRES FOR NON-TRAFFIC AREAS, WATER TO PRODUCT RATIO OF 3:1 AT 1 GALLON PER .40 SQUARE FEET FOR TRAFFIC AREAS) AND/OR SILT FENCE AND RE-SEEDING IF APPLICABLE.
2. ONCE CONSTRUCTION HAS COMMENCED, THE DISTURBED AREA CANNONT SIT FOR MORE THAN TEN (10) SUCCESSIVE CALENDAR DAYS. RACMS MUST BE CEASED OPERATIONS MORE THAN TWO (2) SUCCESSIVE CALENDAR DAYS AND LESS THAN TEN (10) SUCCESSIVE CALENDAR DAYS.

GENERAL CONSTRUCTION NOTES:

1. THERE WILL BE A PERSON OR PERSONS (HEREINAFTER KNOWN AS THE OWNER'S REPRESENTATIVE) CHOSEN BY OWNER (HEREINAFTER KNOWN AS OWNER) TO ACT AS CONTACT PERSONS WITH THE ENGINEER. THE OWNER'S REPRESENTATIVES WILL OBSERVE, PROVIDE INFORMATION AND PROVIDE CRITICAL LOCATIONS THROUGH THE ENGINEER TO THE CONTRACTOR IN THE FIELD.
2. SOUDER, MILLER AND ASSOCIATES SHALL HEREINAFTER BE KNOWN AS THE ENGINEER. THERE WILL BE A PERSON PROVIDED BY THE ENGINEER THAT WILL ACT AS A RESIDENT PROJECT REPRESENTATIVE WHO WILL BE THE FIELD CONTACT FOR QUESTIONS FROM THE CONTRACTOR TO THE ENGINEER.
3. THE ENGINEER WAIVES ANY AND ALL RESPONSIBILITY AND IS NOT LIABLE FOR PROBLEMS THAT MAY ARISE FROM THE CONTRACTOR'S FAILURE TO FOLLOW THESE DRAWINGS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM FAILURE TO OBTAIN AND/OR FOLLOW THE ENGINEER'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS.
2. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR PROJECT SITE SAFETY OR COMPLIANCE WITH OSHA REGULATIONS.
3. THE CONTRACTOR AND/OR HIS SUBCONTRACTORS SHALL, AT THE TIME OF CONSTRUCTION AND/OR INSTALLATION, MUST HAVE ALL APPROPRIATE STATE LICENSES TO PERFORM THESE WORK ACTIVITIES. CONSTRUCTION AND/OR INSTALLATION WORK PERFORMED BY UNLICENSED CONTRACTORS AND/OR SUBCONTRACTORS SHALL NOT BE PAID FOR BY THE OWNER.
4. SHOULD CONFLICTING INFORMATION OR INTERFERENCE PROBLEMS APPEAR WITHIN THESE CONSTRUCTION DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL, IN WRITING, BRING THAT INFORMATION TO THE ATTENTION OF THE ENGINEER IMMEDIATELY PRIOR TO INSTALLATION OR CONSTRUCTION. FAILURE TO COMPLY SHALL NOT BE THE BASIS FOR EXTRA PAYMENT TO THE CONTRACTOR.
5. WHERE TWO OF MORE SPECIFICATIONS, DETAILS OR PLANS ARE IN CONFLICT, THE MORE RESTRICTIVE SHALL APPLY.
6. THESE PLANS AND SPECIFICATIONS DO NOT SHOW EVERY CONSTRUCTION DETAIL, CONSTRUCTION ITEMS, FITTINGS, FIXTURES, MATERIAL TYPES, ETC. THAT ARE REQUIRED TO COMPLETE THE SPECIFIED CONSTRUCTION ACTIVATES. IT IS ASSUMED THAT THE CONTRACTOR HAS SUFFICIENT EXPERIENCE AND KNOWLEDGE OF ALL APPLICABLE CONSTRUCTION AND BUILDING CODES TO CORRECTLY COMPLETE THE INSTALLATION/CONSTRUCTION OF ALL WORK UNDERTAKEN
7. WHERE PARTICULAR WORK ITEMS ARE NOT SPECIFIED HEREIN OR IN THE PROJECT SPECIFICATIONS, THE CURRENT EDITION OF CITY OF ALAMOGORDO "STANDARD CONSTRUCTION SPECIFICATIONS" AND THE APPLICABLE SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN CONSTRUCTION OF THIS PROJECT UNLESS OTHERWISE NOTED.
8. IN THE EVENT THAT THE CONTRACTOR ENCOUNTERS ITEMS OF HISTORICAL IMPORTANCE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND WORK IN THE AREA SHALL IMMEDIATELY CEASE UNTIL THE SITE CAN BE PROPERLY CLEARED.
9. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE ENGINEER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER COURSES IS STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ALL UTILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE GENERAL LOCATION OF KNOWN EXISTING UTILITIES HAS BEEN SHOWN ON THE CONSTRUCTION DRAWINGS TO INDICATE THAT CAUTION MUST BE EXERCISED WHEN WORKING IN THESE AREAS. IN MANY CASES THE EXACT LOCATION OF THE FACILITIES IS NOT KNOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL OVERHEAD AND UNDERGROUND UTILITIES WITHIN THE VICINITY OF THE NEW CONSTRUCTION. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR, WORKING WITH THE RESPECTIVE UTILITY COMPANIES, SHALL ACCURATELY LOCATE AND MARK ALL BURIED FACILITIES, INCLUDING SERVICE LINES. ALL EQUIPMENT LABOR, ETC. NECESSARY TO PROPERLY LOCATE THE EXISTING UTILITIES SHALL BE FURNISHED BY THE CONTRACTOR, THE COST OF WHICH SHALL BE INCLUDED IN THE UNIT PRICES ON VARIOUS BID ITEMS.
11. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTING THE PROJECT ACCORDING TO APPLICABLE CURRENT CITY OF ALAMOGORDO - STANDARD CONSTRUCTION SPECIFICATIONS, NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (NMSSPWC), AWWA SPECIFICATIONS, NEW MEXICO DEPARTMENT OF TRANSPORTATION (NMDOT) SPECIFICATIONS, PROJECT MANUAL AND OTHER APPLICABLE REGULATORY AGENCY REQUIREMENTS UNLESS OTHERWISE NOTED.
12. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING ANY & ALL PERMITS THAT MAY BE REQUIRED WHICH HAVE NOT ALREADY BEEN OBTAINED BY THE ENGINEER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED BY THE PLANS WHETHER SPECIFICALLY LISTED OR NOT TO COMPLETE THE PROJECT. THIS WORK WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION AND THE CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR UNLISTED REMOVALS. THE CONTRACTOR SHALL DISPOSE OF ALL UNSUITABLE MATERIAL IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION ACCEPTABLE TO THE OWNER AND ENGINEER.
14. THE CONTRACTOR SHALL SALVAGE ANY OBSTRUCTIONS NOTED ON THE CONTRACT DRAWINGS AS WELL AS REUSABLE ITEMS FOUND DURING CONSTRUCTION, SUCH ITEMS, IF ANY, SHALL BE DELIVERED TO THE PROPER OWNER AS DIRECTED BY THE ENGINEER AND/OR OWNER DURING CONSTRUCTION.
15. THE CONTRACTOR WILL BE RESPONSIBLE FOR SITE SECURITY, SECURING MATERIALS AND EQUIPMENT ONSITE. THE CONTRACTOR WILL NOT BE ALLOWED TO STORE EQUIPMENT WITHIN THE CONSTRUCTION ZONE DURING NON-WORKING HOURS.
16. CONTRACTOR IS SOLELY RESPONSIBLE FOR UTILITY LOCATION, PROTECTION, AND VERIFICATION. CONTRACTOR MUST NOTIFY NEW MEXICO ONE CALL SYSTEM, INC. AT 1-800-321-ALER(T), AND ALL LOCAL UTILITY PROVIDERS THREE (3) DAYS BEFORE STARTING UTILITY CONSTRUCTION.
17. THROUGHOUT THE LIFE OF THE PROJECT, THE CONTRACTOR SHALL KEEP ANY EXISTING SYSTEM OPERATING. THE CONTRACTOR SHALL REPORT ANY UTILITY SHUTOFFS OF ANY OR ALL CONNECTIONS TO THE USER'S REPRESENTATIVE TWENTY-FOUR (24), OR MORE, HOURS IN ADVANCE OF THE SHUT-OFFS. ALL LOCAL RESIDENTS AND BUSINESSES SHALL BE CONTACTED BEFORE ANY DISCONNECTION OF WATER SERVICE. ANY INTERRUPTION OF WATER SERVICE SHALL BE KEPT TO THE MINIMUM LENGTH OF TIME POSSIBLE.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A WATER SOURCE FOR CONSTRUCTION. NO DIRECT PAYMENT WILL BE MADE FOR WATER. ALL PERMITS, FEES, EQUIPMENT, HAUL, ETC. RELATIVE TO OBTAINING WATER SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS BID ITEMS.
19. CONTRACTOR SHALL CONFINE ALL CONSTRUCTION OPERATIONS TO THE LIMITS OF THE PROJECT DEFINED IN THESE DRAWINGS, AND IN NO WAY ENCROACH ONTO ADJACENT PROPERTIES, UNLESS LEGAL EASEMENTS ARE PROVIDED. CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY AGREEMENTS NEEDED, OR DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES TO PUBLIC OR PRIVATE PROPERTY, INCLUDING UTILITIES.
20. THE CONTRACTOR SHALL TAKE ANY NECESSARY MEASURES TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS FROM DAMAGE DURING CONSTRUCTION. IF DURING EXECUTION OF THE PROJECT, THE CONTRACTOR'S ACTIVITIES DISTURB OR DESTROY SUCH MONUMENTS, THE CONTRACTOR SHALL RE-ESTABLISH THEM IN ACCORDANCE WITH THE STANDARDS AND PROCEDURES SET FORTH IN THE "GEODETIC MARK PRESERVATION GUIDEBOOK"; FOR MORE INFORMATION CONTACT NGS MARK PRESERVATION CENTER, NOAA: (505) 768-3606.
18. CONTRACTOR SHALL REPAIR ANY EXISTING STRUCTURE OR UTILITY CONDUIT DAMAGED DURING THE EXECUTION OF THE PROJECT, AT NO ADDITIONAL COSTS TO THE OWNER.
19. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF MATERIALS AND EQUIPMENT PRIOR TO AND AFTER THEIR INSTALLATION, AS APPLICABLE, UNTIL THE PROJECT'S FINAL ACCEPTANCE BY THE OWNER.
20. AS REQUIRED, NOT LESS THAN 5 DAYS PRIOR TO INITIATING ANY WORK, THE CONTRACTOR SHALL SUBMIT A DUST SUPPRESSION AND EROSION CONTROL PLAN FOR THE OWNER'S APPROVAL. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN SUCH A MANNER THAT WILL HAVE NO ADVERSE EFFECT UPON ADJACENT PROPERTIES OR PUBLIC ROADWAYS.
21. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR EROSION CONTROL INCIDENTAL TO THE CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL SUBMIT A STORMWATER POLLUTION PREVENTION PLAN (SWPPP)TO THE OWNER'S ENGINEER. THE PLAN WILL ADDRESS ALL CONSTRUCTION PHASES AND THE PROPOSED POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES. THIS SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT REQUIREMENT FOR ALL CONSTRUCTION ACTIVITIES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE NM ENVIRONMENT DEPARTMENT EMERGENCY RESPONSE TEAM AT (505) 827-4308 OR (505) 470-3657 AND TO THE ENGINEER. ANY UNREPORTED SPILLS IDENTIFIED AFTER CONSTRUCTION AND THE ASSOCIATED CLEANUP COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
23. THE CONTRACTOR SHALL PREPARE AND MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS. UPDATING SUCH DRAWINGS SHALL BE DONE NOT LESS THAN ONCE EVERY WEEK. THE OWNER, AND THE ENGINEER OR ENGINEER'S REPRESENTATIVE SHALL BE ALLOWED TO REVIEW THESE DRAWINGS AT ANY TIME DURING CONSTRUCTION. PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL SUBMIT TWO (2) SETS OF COMPLETE AS-BUILT DRAWINGS TO THE ENGINEER.
24. CONTRACTOR SHALL SUBMIT ACI, ASTM OR AASHTO CERTIFICATES OF MATERIAL'S COMPLIANCE TO THE ENGINEER NO LESS THAN 7 DAYS PRIOR TO INITIATING ANY WORK INVOLVING SUCH MATERIALS.
25. ALL AREAS DISTURBED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT SHALL BE RESTORED, RE-GRADED IN A MANNER ACCEPTABLE TO THE OWNER, USER AND ENGINEER.
26. EXCESS MATERIAL, IF APPLICABLE, SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE UNLESS OTHERWISE DIRECTED BY THE OWNER, USER OR ENGINEER.
27. OBSTRUCTIONS REMOVED FROM THE WORK AREAS SHALL BE DISPOSED OF BY THE CONTRACTOR. DISPOSAL OF USABLE MATERIALS (E.G., EXCESS DIRT, GRAVEL, ETC.) SHALL BE AT A SITE DESIGNATED BY THE OWNER DURING CONSTRUCTION. THE DISPOSAL SITE FOR EXCESS MATERIAL MUST BE APPROVED BY THE OWNER'S OR USER'S PROJECT MANAGER AND ENGINEER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE A DISPOSAL SITE FOR NON-USABLE MATERIALS (E.G., BRUSH, CONCRETE), ACCORDING TO THE NMED. WASTE PAVEMENT AND CONCRETE ARE NOT

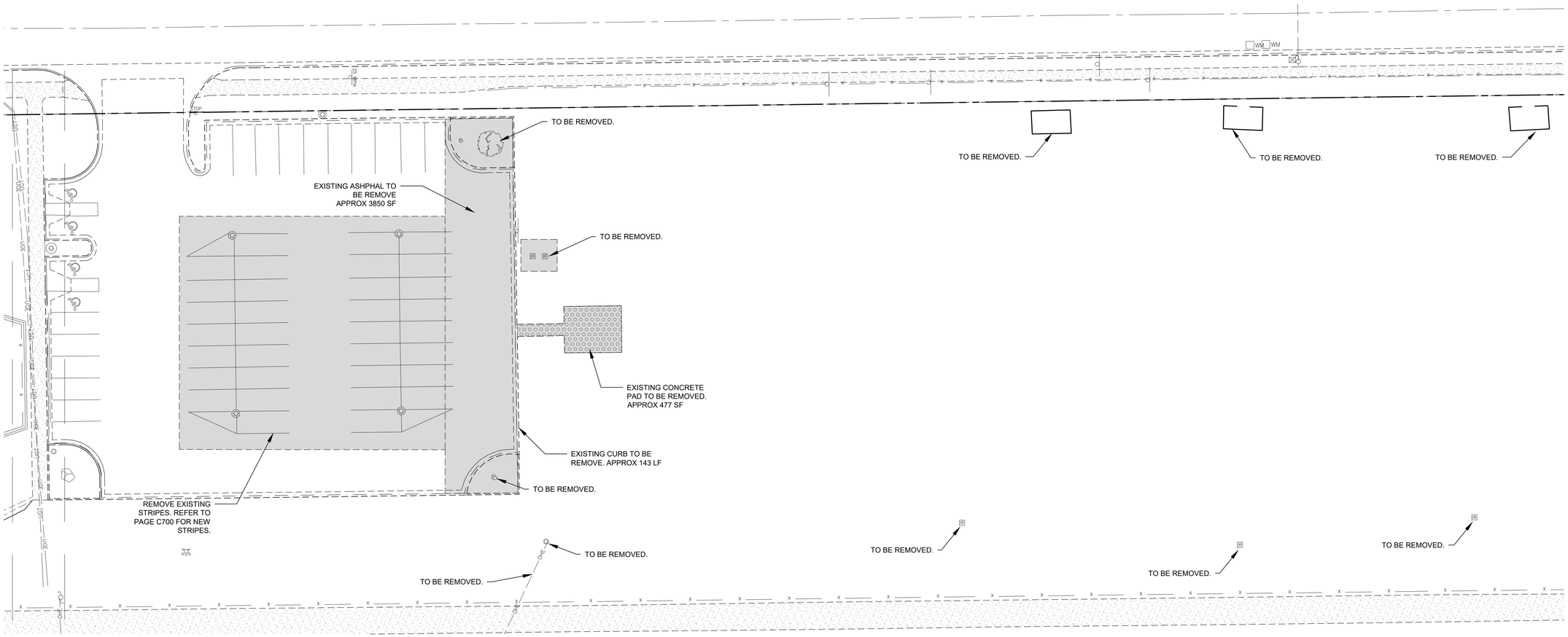
DEMOLITION LEGEND

= ASPHALT PAVING TO BE REMOVED

= CONCRETE PAVING / SIDEWALK TO BE REMOVED

DEMOLITION NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND BECOMING FAMILIARIZED WITH ALL EXISTING SITE CONDITIONS WITHIN THE DEMOLITION LIMITS. NOT ALL ITEMS TO BE RAZED AND REMOVED ARE SHOWN ON THIS DEMOLITION PLAN.
2. REMOVE ALL EXISTING PAVING, CONCRETE STRUCTURES, CURBING, FENCING, FLATWORK, VEGETATION, TIRES AND ALL DELETERIOUS ITEMS WITHIN THE DEMOLITION LIMITS OF THE PROJECT, WHERE APPLICABLE.



DEMOLITION PLAN
SCALE 1" =20'

NOTE TO CONTRACTOR:
THIS SHEET IS INTENDED TO DELINEATE THE DEMOLITION ITEMS; HOWEVER THE CONTRACTOR SHALL BE AWARE OF ALL ITEMS CONFLICTING WITH THE PROPOSED CONSTRUCTION THAT SHALL BE REMOVED AND/OR RELOCATED WHETHER OR NOT SPECIFICALLY DESIGNATED. CONTRACTOR SHALL VERIFY THAT ALL UTILITY ITEMS SHOWN AS PREVIOUSLY REMOVED HAVE BEEN REMOVED AND TO WHAT EXTENT THEY WERE REMOVED.

Rev #	Date	Description	By	Chk'd
00	9/15	INITIAL 75% DD REVIEW	AB	BO
01	10/01	INITIAL 100% DD REVIEW	AB	BO
02	01/14	INITIAL 60% CD REVIEW	AB	BO

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ALAMOGORDO, NEW MEXICO

ASA ARCHITECTS

ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO
DEMOLITION PLAN

NOTE: THESE DRAWINGS ARE TO BE USED TO ACQUIRE PERMITS FROM JURISDICTIONAL GOVERNMENTAL AGENCIES AND ARE NOT TO BE RELIED UPON FOR PROJECT BIDDING PURPOSES OR FOR CONSTRUCTION UNTIL APPLICABLE CONSTRUCTION PERMITS ARE ISSUED.

MICHAEL D. JOHNSON — NEW MEXICO — 23781 — REGISTERED PROFESSIONAL ENGINEER

PRELIMINARY NOT APPROVED

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
BO	AB	MJ

Date: January 2026

Scale: AS SHOWN

Project No: 9334193

Sheet: C200

To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

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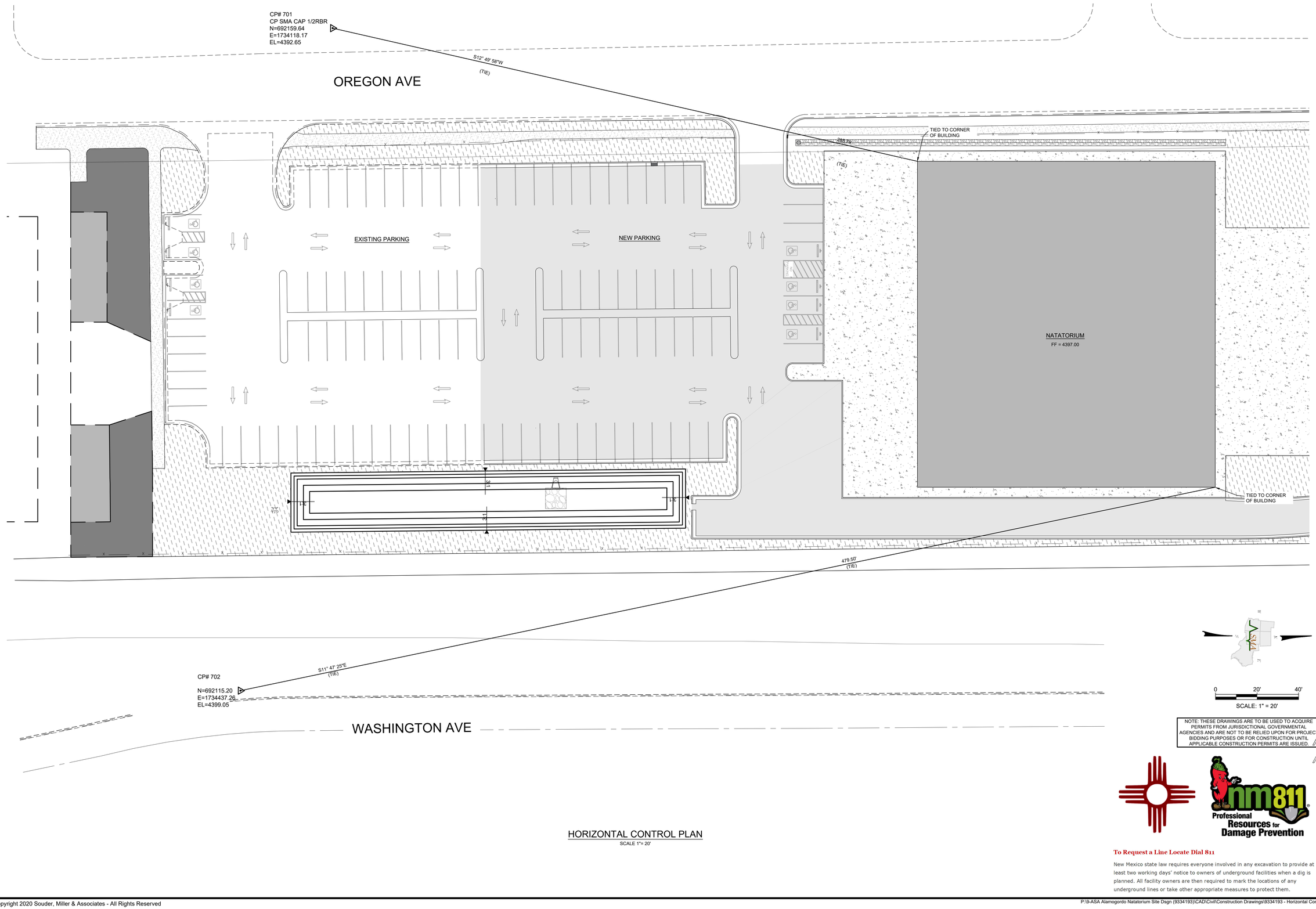
P:\9-ASA Alamogordo Natatorium Site Dsgn (9334193)\CAD\Civil\Construction Drawings\9334193 - Demolition Plan.dwg 1/14/2026 1:17 PM AB



HORIZONTAL CONTROL PLAN
SCALE 1"= 20'

SCALE: 1" = 20'

NOTE: THESE DRAWINGS ARE TO BE USED TO ACQUIRE PERMITS FROM JURISDICTIONAL GOVERNMENTAL AGENCIES AND ARE NOT TO BE RELIED UPON FOR PROJECT BIDDING PURPOSES OR FOR CONSTRUCTION UNTIL APPLICABLE CONSTRUCTION PERMITS ARE ISSUED.

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ASA ARCHITECTS

ALAMOGORDO, NEW MEXICO

ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO
HORIZONTAL CONTROL PLAN

MICHAEL J. JOHNSON — NEW MEXICO — 23782 — PROFESSIONAL ENGINEER

PRELIMINARY NOT APPROVED

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Designed	Drawn	Checked
BO	AB	MJ

Date: January 2026
Scale: AS SHOWN
Project No: 9334193
Sheet: C201

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GRADING LEGEND

EX EoP	=	EXISTING EDGE OF PAVEMENT ELEVATION
ToC	=	TOP OF CURB ELEVATION
FL	=	FLOW LINE ELEVATION
CL	=	CENTERLINE ELEVATION
EoP	=	EDGE OF PAVEMENT ELEVATION
4395	=	EXISTING MAJOR CONTOUR
4396	=	EXISTING MINOR CONTOUR
4395	=	PROPOSED MAJOR CONTOUR
4394	=	PROPOSED MINOR CONTOUR
	=	EXISTING PROPERTY / ROW LINES
	=	PROJECT PROPERTY / ROW LINES

OREGON AVE

WASHINGTON AVE

WASHINGTON AVE

EXISTING PARKING

NEW PARKING

NATATORIUM
FF = 4397.00

CONTRACTOR TO TIE TO EXISTING ASPHALT GRADE. CONTRACTOR TO FIELD VERIFY EXACT ELEVATION AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING. NOTIFY ENGINEER IF NOT ACHIEVABLE.

CONTRACTOR TO TIE TO EXISTING ASPHALT GRADE. CONTRACTOR TO FIELD VERIFY EXACT ELEVATION AND ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING. NOTIFY ENGINEER IF NOT ACHIEVABLE.

DRAINAGE POND
ToP= 4396.00
HW= 4395.50
BoP= 4392.00

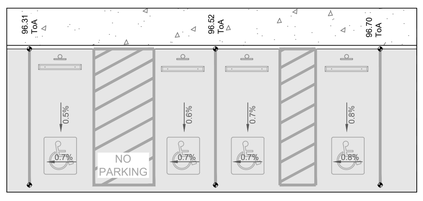
GRADE AT 4:1 SLOPE TO MATCH EXISTING CONDITIONS

GRADE AT 4:1 SLOPE TO MATCH EXISTING CONDITIONS

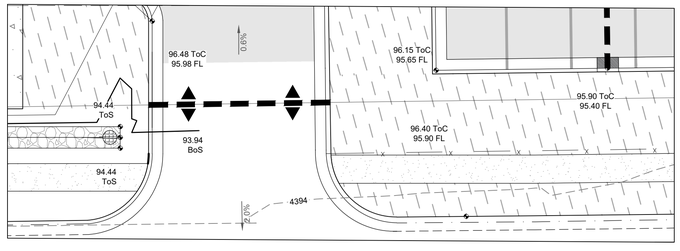
GRADE AT 4:1 SLOPE TO MATCH EXISTING CONDITIONS

LANDSCAPE DRAINAGE SWALE

10' X 10' X 18" DEEP 6" - 8" RIVER ROCK RIP-RAP



DETAIL: A



DETAIL: B

GRADING PLAN
SCALE 1"= 20'

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MICHAEL D. JOHNSON 23782 NEW MEXICO PROFESSIONAL ENGINEER

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Designed	Drawn	Checked
BO	AB	MJ

Date: January 2026

Scale: AS SHOWN

Project No: 9334193

Sheet: C300

nm811 Professional Resources for Damage Prevention

To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

Rev #	Date	Description	By	Chk'd
00	9/15	INITIAL 75% DD REVIEW	AB	BO
01	10/01	INITIAL 100% DD REVIEW	AB	BO
02	01/14	INITIAL 60% CD REVIEW	AB	BO

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ASA ARCHITECTS

ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO
GRADING PLAN

ALAMOGORDO, NEW MEXICO

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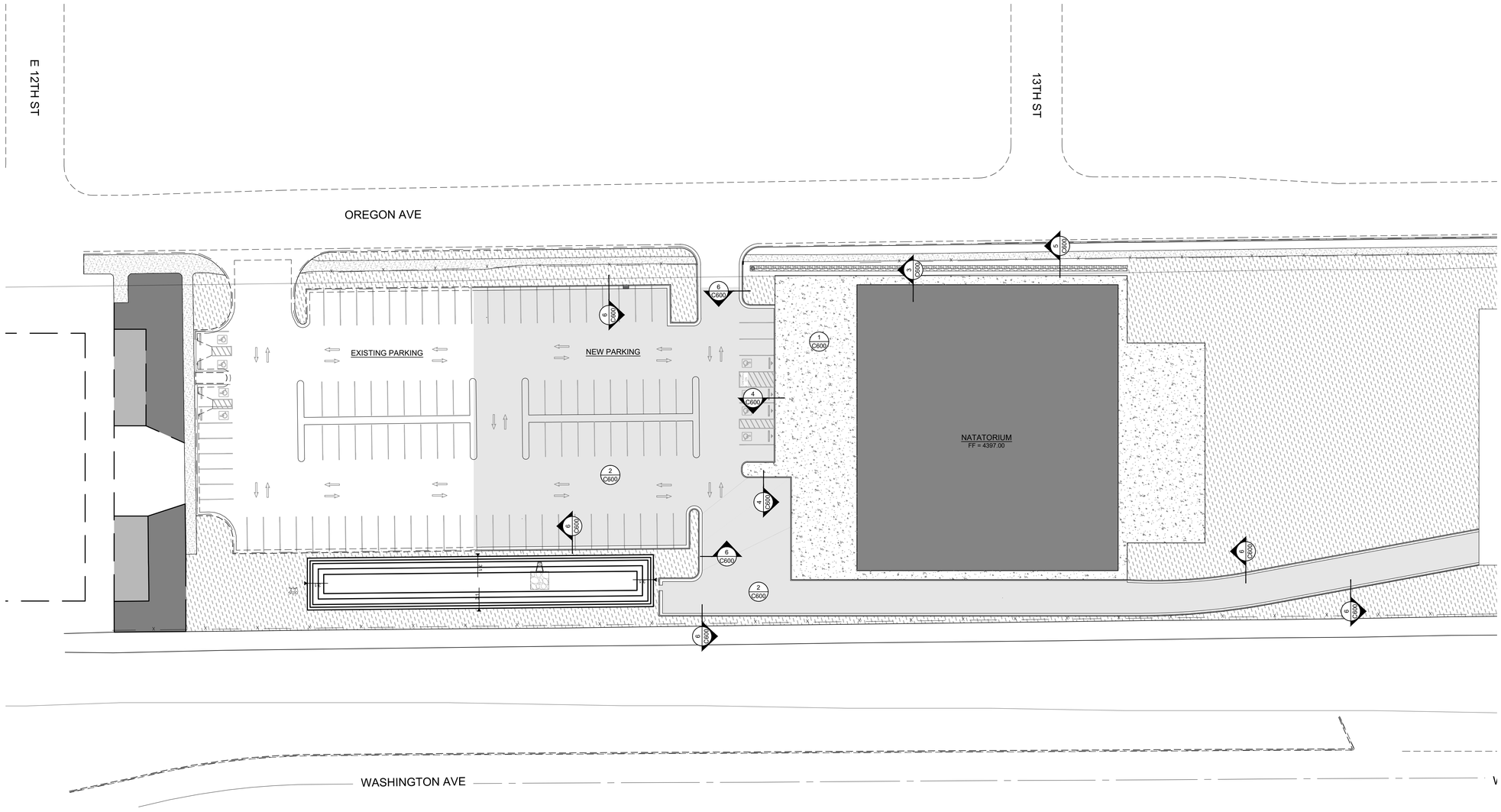

DETAIL CALL OUT PLAN

SCALE 1"= 30'

Rev #	Date	Description	By	Chk'd
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ASA ARCHITECTS

ALAMOGORDO, NEW MEXICO

ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO
EROSION CONTROL PLAN

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MICHAEL D. JOHNSON 17127 PROFESSIONAL ENGINEER

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BO	AB	MJ

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Scale: AS SHOWN

Project No: 9334193

Sheet: C301

To Request a Line Locate Dial 811

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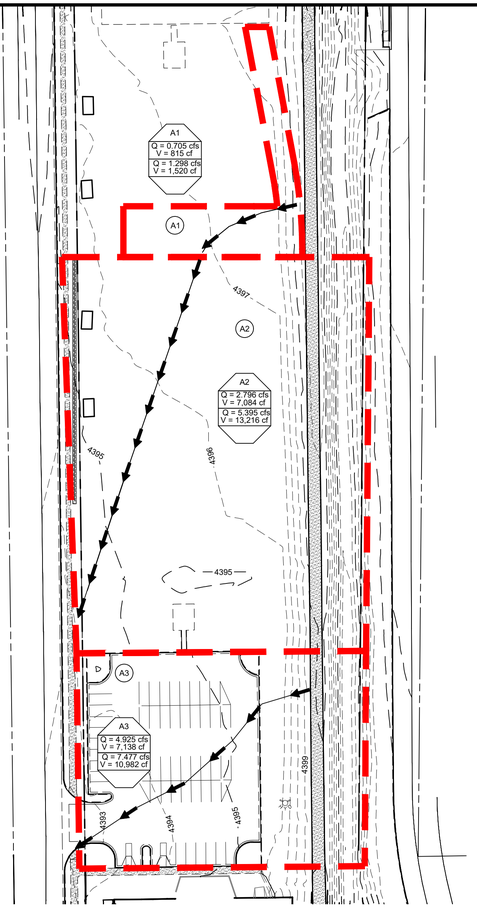
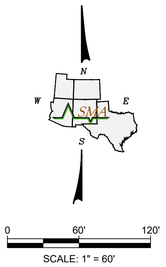
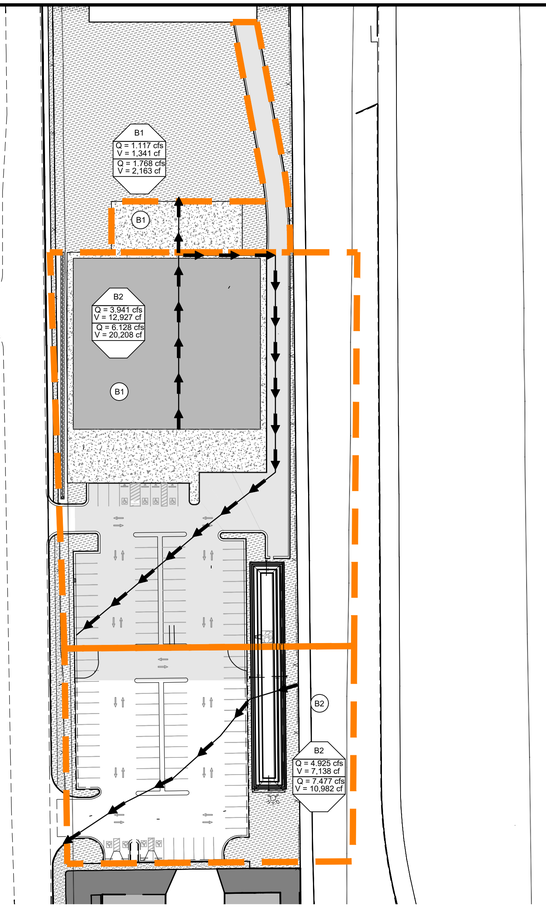


PRE-DEVELOPMENT BASIN MAP

SCALE: 1" = 60'



SCALE: 1" = 60'



POST-DEVELOPMENT BASIN MAP

SCALE: 1" = 60'

DRAINAGE CALCULATIONS & NOTES

1.0 RAINFALL

The average annual precipitation around Alamogordo, NM is 11.7" according to U.S. Climate Normals data of the National Oceanic and Atmospheric Administration (N.O.A.A.). Approximately half of the total rainfall occurs during the summer months. The most severe storms usually occur during the period of July through September. The 2-year, 24-hour precipitation for Alamogordo is 1.60 inches. The 10-year, 24-hour precipitation for Alamogordo is 2.30 inches. The 100-year, 24-hour precipitation for Alamogordo is 3.37 inches. To utilize the intensity as a principal factor of peak flows on a small watershed, the Natural Resources Conservation Service (NRCS) has related the percent of daily rainfall with an intensity position at 25% (6th hour of a 24-hour storm) of the design storm. The 25% intensity transformation is used for this analysis.

2.0 HYDROLOGIC SOIL CLASSIFICATION

Hydrologic soil classification was determined from soil survey information available from the local Natural Resources Conservation Services (NRCS) Web Soil Survey accessed on September 23, 2025. Soil Survey of the Otero County area published by the U.S. Department of Agriculture and the Natural Resources Conservation Service was used for this drainage study.

The soil survey map shows that the following soils types are found within the project area and within the drainage basins leading into the project area:

Soil Types		
Soil Symbol	Soil Type Name	Hydrologic Soils Class
TcA	Tome very fine sandy loam	C

The soil types and corresponding hydrologic soil classification breakdown within individual basin as follows:

Pre-Development Soil Types Summary	
Basin	"TcA" % Soil Type HSC "C"
A1	100%
A2	100%

Post-Development Soil Types Summary	
Basin	"TcA" % Soil Type HSC "C"
B1	100%
B2	100%

3.0 RUNOFF CURVE NUMBERS

From the hydrologic soils types listed above and the Runoff Curve Numbers found in Table 2-2a of the Technical Release 55, "Urban Hydrology for Small Watersheds", the following is a summary of the runoff coefficient values used in this report. The percent of land area covered and hydraulic soil classification (HSC) listed above is used in conjunction with the land use areas and HSC below to derive the composite curve numbers as listed in the pre-development and post-development stormwater calculations table in Sections 5.0. The composite curve number calculations were computed using the Hydroflow Hydrographs Extension for AutoCAD Civil 3D 2021 software package, developed by Autodesk.

Curve Numbers - Soil Type Summary	
Land Use Area	Hydrologic Soil Class "C"
Natural Cover	85
Impervious	98
Cleared	91
Desert Landscape	85
Lawn Landscape	79

4.0 LAND USE

A summary of the pre & post-development drainage basin land uses are as follows:

Pre-Development Composite Curve Numbers							
Basin	Natural Cover Area (ac.)	Impervious Area (ac.)	Cleared Area (ac.)	Desert Landscape Area (ac.)	Lawn Landscape Area (ac.)	Total Area (ac.)	Composite CN
A1	0.22	0.00	0.00	0.00	0.00	0.22	85
A2	1.90	0.00	0.00	2.02	0.00	1.90	85
A3	0.00	0.95	0.00	0.05	0.00	1.00	97

Post-Development Composite Curve Numbers							
Basin	Natural Cover Area (ac.)	Impervious Area (ac.)	Cleared Area (ac.)	Desert Landscape Area (ac.)	Lawn Landscape Area (ac.)	Total Area (ac.)	Composite CN
B1	0.00	0.20	0.00	0.02	0.00	0.22	97
B2	0.00	1.33	0.00	0.57	0.00	1.90	94
B3	0.00	0.95	0.00	0.05	0.00	1.00	97

5.0 HYDROLOGY

The input values for the hydrograph calculations were determined with the following input data:

- The 2, 10 and 100-year, 24-hour precipitation was determine from the NOAA web site.
- Time of concentration (Tc) values were determine from the TR-55 method.
- Time of concentration (Tc) values were calculated in accordance with chapter 4 of the NMDOT Drainage Design Manual. The TR-55 method was used for calculations. In basins where the Tc is less than 10 minutes, a minimum Tc of 10 minutes was used.

A summary of the pre & post-development storm water calculations are as follows:

10-Year Pre-Development Stormwater Calculations							
Basin	Area (ac.)	Tc (min.)	Overland Basin Length (ft)	Overland Basin slope (%)	Weighted CN	Volume (cf)	Peak Discharge (cfs)
A1	0.22	10.0	91	4.1	85	815	.705
A2	1.90	30.8	293	0.8	85	7,084	2.796
A3	1.00	14.1	234	0.5	97	7,138	4.925

100-Year Pre-Development Stormwater Calculations							
Basin	Area (ac.)	Tc (min.)	Overland Basin Length (ft)	Overland Basin slope (%)	Weighted CN	Volume (cf)	Peak Discharge (cfs)
A1	0.22	10.0	91	4.1	85	1,520	1.298
A2	1.90	30.8	293	0.8	85	13,216	5.395
A3	1.00	14.1	234	0.5	97	10,982	7.477

10-Year Post Development Stormwater Calculations							
Basin	Area (ac.)	Tc (min.)	Overland Basin Length (ft)	Overland Basin slope (%)	Weighted CN	Volume (cf)	Peak Discharge (cfs)
B1	0.22	10.0	37	0.5	94	1,341	1.117
B2	1.90	46.1	143	0.2	96	12,927	3.941
B3	1.00	14.1	234	0.5	97	7,138	4.925

5.0 HYDROLOGY (CONTINUED)

100-Year Post Development Stormwater Calculations							
Basin	Area (ac.)	Tc (min.)	Overland Basin Length (ft)	Overland Basin slope (%)	Weighted CN	Volume (cf)	Peak Discharge (cfs)
B1	0.22	10	37	0.5	94	2,163	1.768
B2	1.90	46.1	143	0.2	96	20,208	6.128
B3	1.00	14.1	234	0.5	97	10,982	7.477

The findings outlined in section 5.0 above show that the post-development condition has no impact on the stormwater discharge and stormwater volume than the pre-development condition within basin A2. As such, no stormwater ponding is required within basin A2.

6.0 POND CONSTRUCTION

Pond Designation	Top Area (sqft)	Bottom Area (sqft)	Side Slope	Structure Depth (ft)	Water Depth (ft)	Slope Treatment	Outlet Structure	Weir Length (ft)	Design Volume at High Water Elevation (cuft)
Pond 1	5,304	1,661	3:1	3	2.5	Rip-rap	Broad Crested Weir	5	7,764

7.0 PONDING REQUIREMENTS

Ponding Summaries			
Pre-Development 100-Year Event (cf)	Post-Development Total 100-Year Event (cf)	Ponding Required (cf)	Ponding Provided (cf)
14,736	22,371	7,635	7,764

8.0 STORM WATER DISCHARGE

Discharge Summaries		
Pre-Development 100-Year Event (cfs)	Post-Development Total 100-Year Event (cfs)	Discharge Rate Difference (cfs)
5.500	6.209	0.709

The findings outlined in sections 7.0 and 8.0 above show that within basin A1 and A2 the post-development condition has a higher peak stormwater discharge and stormwater volume than the pre-development condition within basin A1 and A2. As such, stormwater ponding will only be required for basin A1 and A2 for the development of this site. The proposed development stormwater discharge and volume is to be directed towards the parking area inlet and outflow into the provided ponding area.

BASIN LEGEND

BASIN FLOW POINTS ON MAP

- FLOW ENTERING POND

AP 1 — BASIN LABEL
Q=2.44 cfs V=4,442 cf
Q=4.23 cfs V=7,811 cf
Q=10, V=10
Q=100, V=100

- FLOW GENERATED WITHIN BASIN

B1 — BASIN LABEL
Q=2.80 cfs V=6,087 cf
Q=5.08 cfs V=11,112 cf
Q=10, V=10
Q=100, V=100

-FLOW EXITING BASIN

EP 1 — BASIN LABEL
Q=5.83cfs V=10,182 cf
Q=12.72cfs V=22,842 cf
Q=10, V=10
Q=100, V=100

DIRECTION OF FLOW

ANALYSIS POINT

GENERAL LEGEND

BASIN DESIGNATION (A)

PRE-DEVELOPMENT BASIN BOUNDARY

POST-DEVELOPMENT BASIN BOUNDARY

PRE-DEVELOPMENT FLOW LINE

POST-DEVELOPMENT FLOW LINE

MAJOR CONTOUR (5' INTERVAL)

MINOR CONTOUR (1' INTERVAL)

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ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO

ASA ARCHITECTS
ALAMOGORDO, NEW MEXICO

DRAINAGE SHEET

MICHAEL D. BRANNAN — NEW MEXICO — 23782 — REGISTERED PROFESSIONAL ENGINEER

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BCO	CM	BCO

Date: January 2026

Scale: AS SHOWN

Project No: 9334193

Sheet: C350

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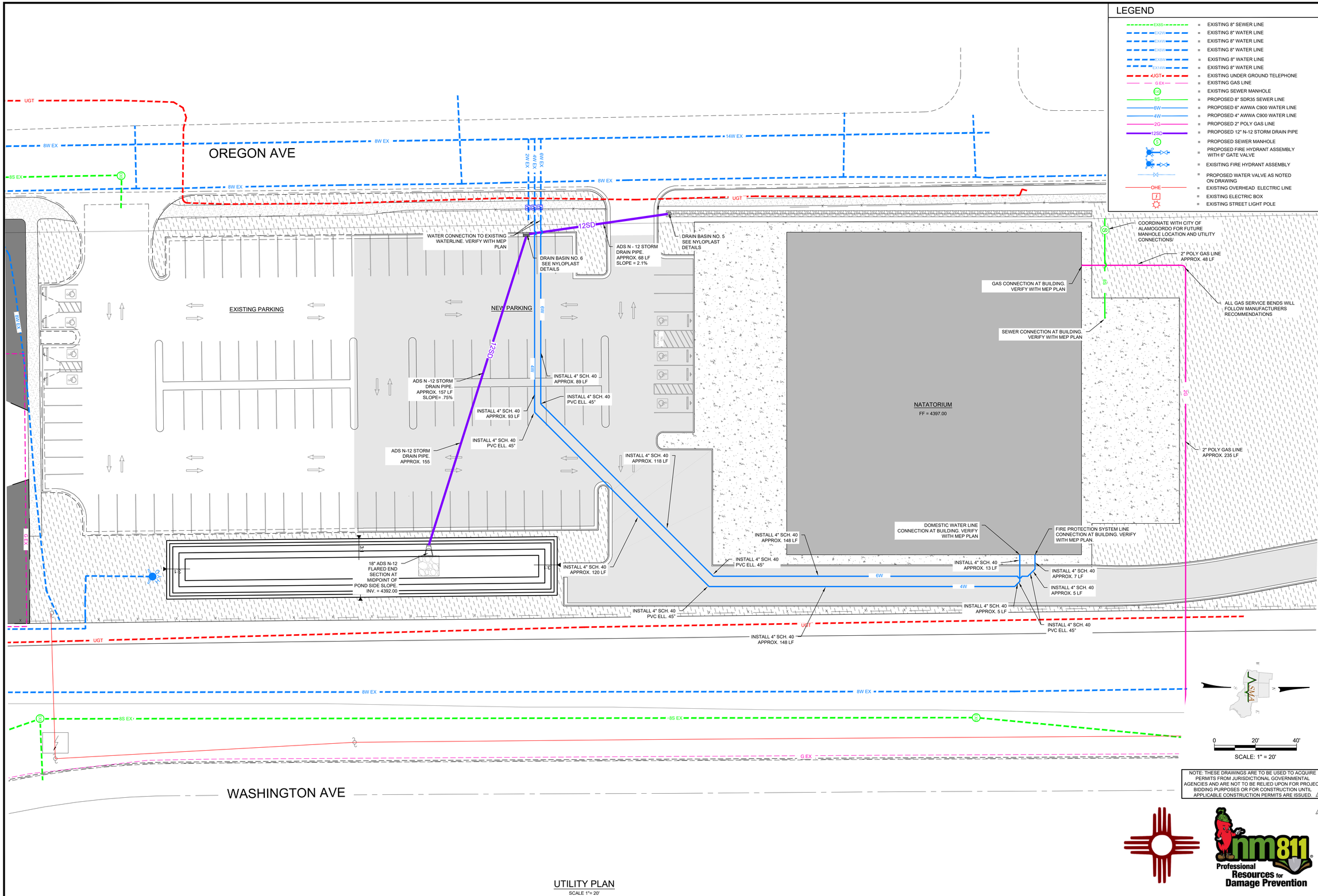

LEGEND

EX8S	=	EXISTING 8" SEWER LINE
EX2W	=	EXISTING 8" WATER LINE
EX4W	=	EXISTING 8" WATER LINE
EX6W	=	EXISTING 8" WATER LINE
EX8W	=	EXISTING 8" WATER LINE
EX14W	=	EXISTING 8" WATER LINE
UGT	=	EXISTING UNDER GROUND TELEPHONE
G EX	=	EXISTING GAS LINE
EX	=	EXISTING SEWER MANHOLE
8S	=	PROPOSED 8" SDR35 SEWER LINE
6W	=	PROPOSED 6" AWWA C900 WATER LINE
4W	=	PROPOSED 4" AWWA C900 WATER LINE
2G	=	PROPOSED 2" POLY GAS LINE
12SD	=	PROPOSED 12" N-12 STORM DRAIN PIPE
S	=	PROPOSED SEWER MANHOLE
	=	PROPOSED FIRE HYDRANT ASSEMBLY WITH 6" GATE VALVE
	=	EXISITING FIRE HYDRANT ASSEMBLY
	=	PROPOSED WATER VALVE AS NOTED ON DRAWING
OHE	=	EXISTING OVERHEAD ELECTRIC LINE
	=	EXISTING ELECTRIC BOX
	=	EXISTING STREET LIGHT POLE

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ALAMOGORDO, NEW MEXICO
UTILITY PLAN

ALAMOGORDO, NEW MEXICO

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Sheet: C400

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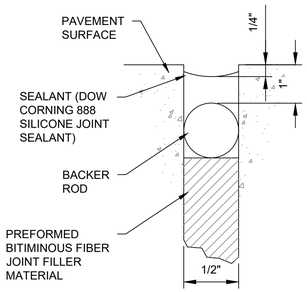

EXPANSION JOINT
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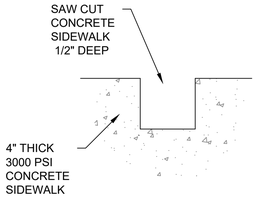

CONTROL JOINT
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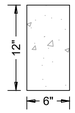
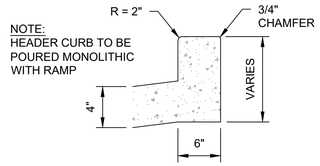


HEADER CURB
SCALE: N.T.S.



ADA HEADER CURB
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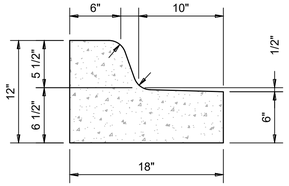

TYPE 'L' CURB
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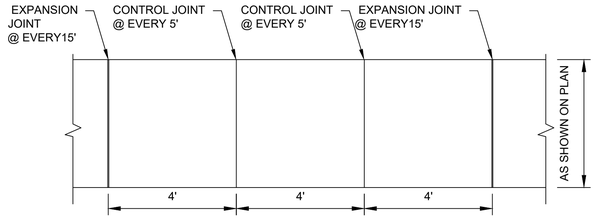

SIDEWALK - PLAN VIEW
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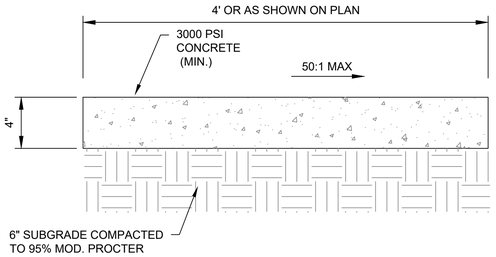
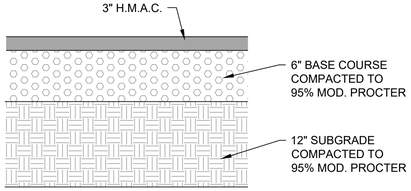


1 C600 SIDEWALK DETAIL
SCALE: N.T.S.



NOTE: COORDINATE WITH GEOTECH FOR SUBGRADE PREP.

2 C600 PAVING SECTION
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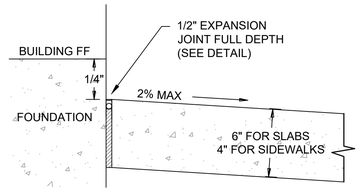

3 C600 BUILDING & SIDEWALK JOINT
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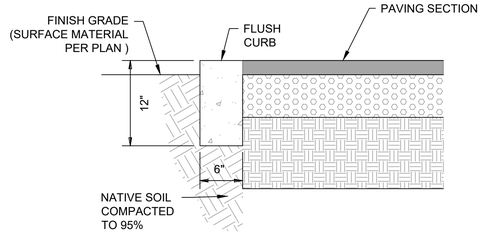

4 C600 FLUSH CURB SECTION
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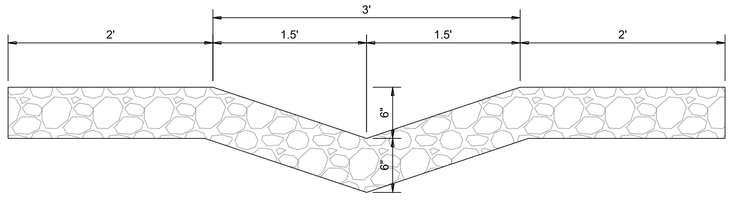
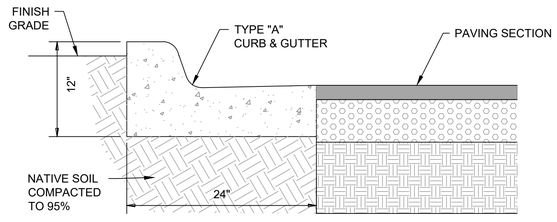
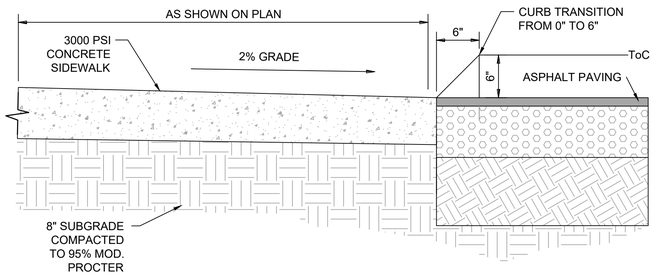


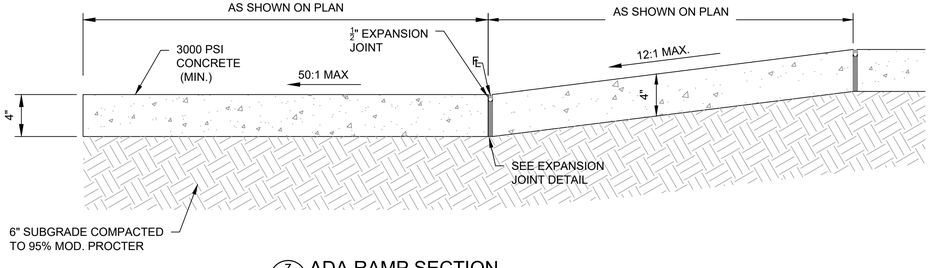
5 C600 DRAINAGE SWALE
NOT TO SCALE



6 C600 STANDARD CURB SECTION
SCALE: N.T.S.



8 C600 TYP. CURB TRANSITION
SCALE: N.T.S.



7 C600 ADA RAMP SECTION
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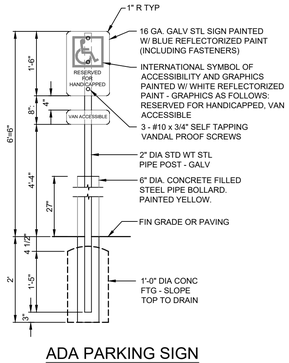
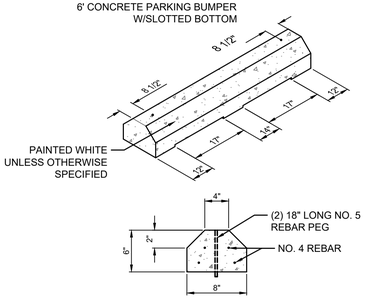


ADA PARKING SIGN
NOT TO SCALE



CONCRETE WHEEL STOP
SCALE: N.T.S.

DETAIL PLAN
SCALE =N.T.S

Rev #	Date	Description	By	Chk'd
00	9/15	INITIAL 75% DD REVIEW	AB	BO
01	10/01	INITIAL 100% DD REVIEW	AB	BO
02	01/14	INITIAL 60% CD REVIEW	AB	BO

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ASA ARCHITECTS

ALAMOGORDO, NEW MEXICO

ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO
DETAIL PLAN

NOTE: THESE DRAWINGS ARE TO BE USED TO ACQUIRE PERMITS FROM JURISDICTIONAL GOVERNMENTAL AGENCIES AND ARE NOT TO BE RELIED UPON FOR PROJECT BIDDING PURPOSES OR FOR CONSTRUCTION UNTIL APPLICABLE CONSTRUCTION PERMITS ARE ISSUED.

MICHAEL D. JOHNSON — NEW MEXICO — 23781 — PROFESSIONAL ENGINEER

PRELIMINARY NOT APPROVED

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Designed	Drawn	Checked
BO	AB	MJ

Date: January 2026
Scale: AS SHOWN
Project No: 9334193
Sheet: C600

To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

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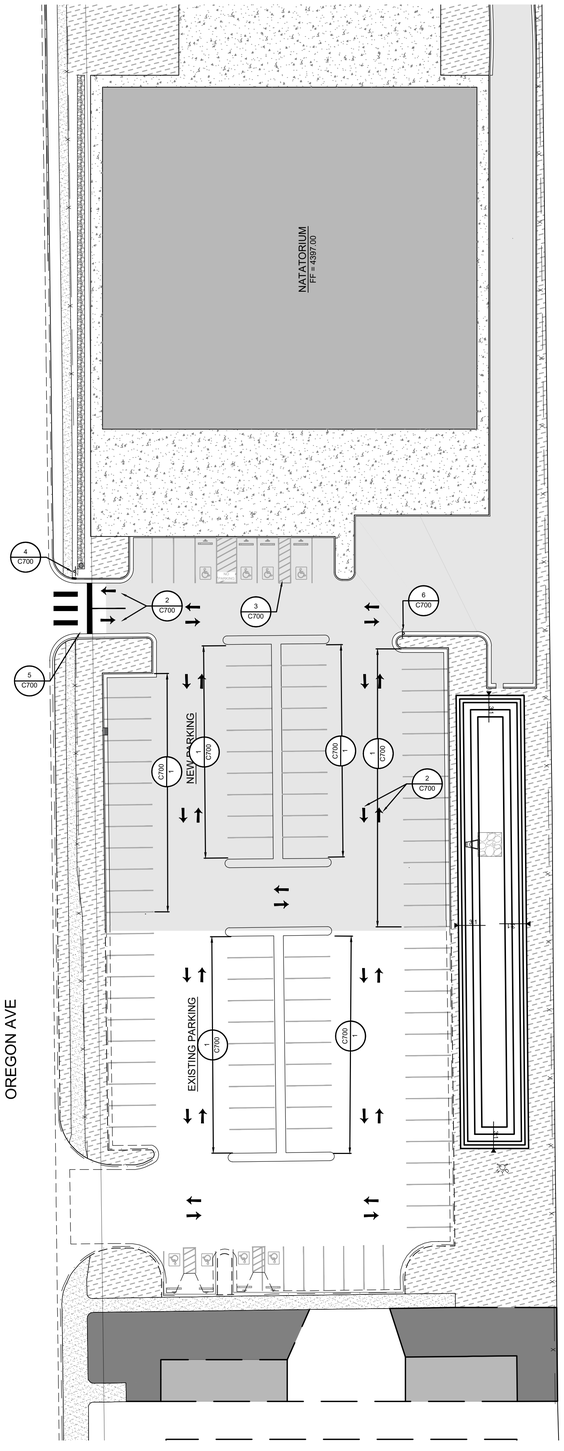
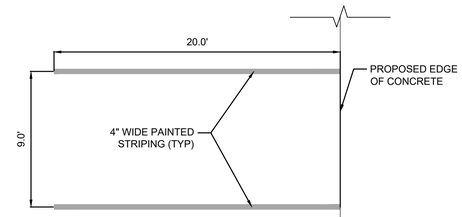
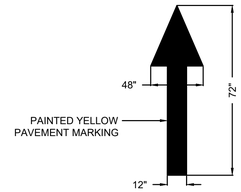


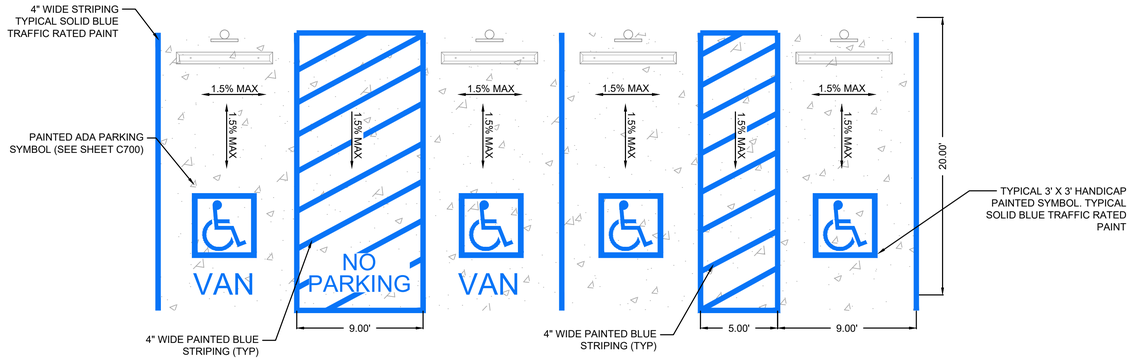
STRIPING AND SIGNAGE PLAN
SCALE 1"= 30'



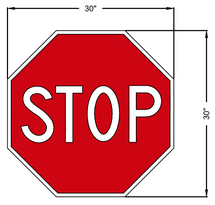
1 C700 TYPICAL PARKING SPACE
SCALE: N.T.S.



2 C700 PAVEMENT ARROW MARKING
SCALE: N.T.S.

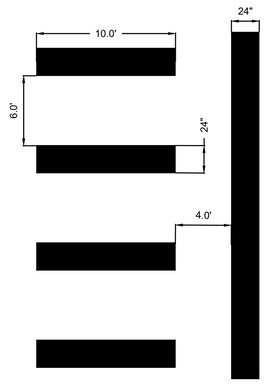


3 C700 ADA PARKING STRIPING AND PEDESTRIAN ACCESS
SCALE: N.T.S.



MINIMUM 30" x 30"

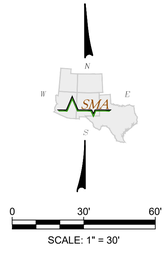
4 C700 STOP SIGN (R1-1)
SCALE: N.T.S.



5 C700 CROSSWALK AND STOP BAR
SCALE: N.T.S.

MINIMUM 30" x 24"

6 C700 AUTHORIZED VEHICLES (R5-11)
SCALE: N.T.S.



SCALE: 1" = 30'

PARKING REQUIREMENTS

1. THE PERPENDICULAR PARKING STALLS ARE 9' x 20'. 63 NEW SPACES ARE PROVIDED.
2. 2 NEW REGULAR ADA PARKING SPACE AND 2 NEW VAN ADA SPACE IS PROVIDED.

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ASA ARCHITECTS

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MICHAEL D. JOHNSON 17 PROFESSIONAL ENGINEER

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Designed	Drawn	Checked
BO	AB	MJ

Date: January 2026
Scale: AS SHOWN
Project No: 9334193
Sheet: C700

To Request a Line Locate Dial 811

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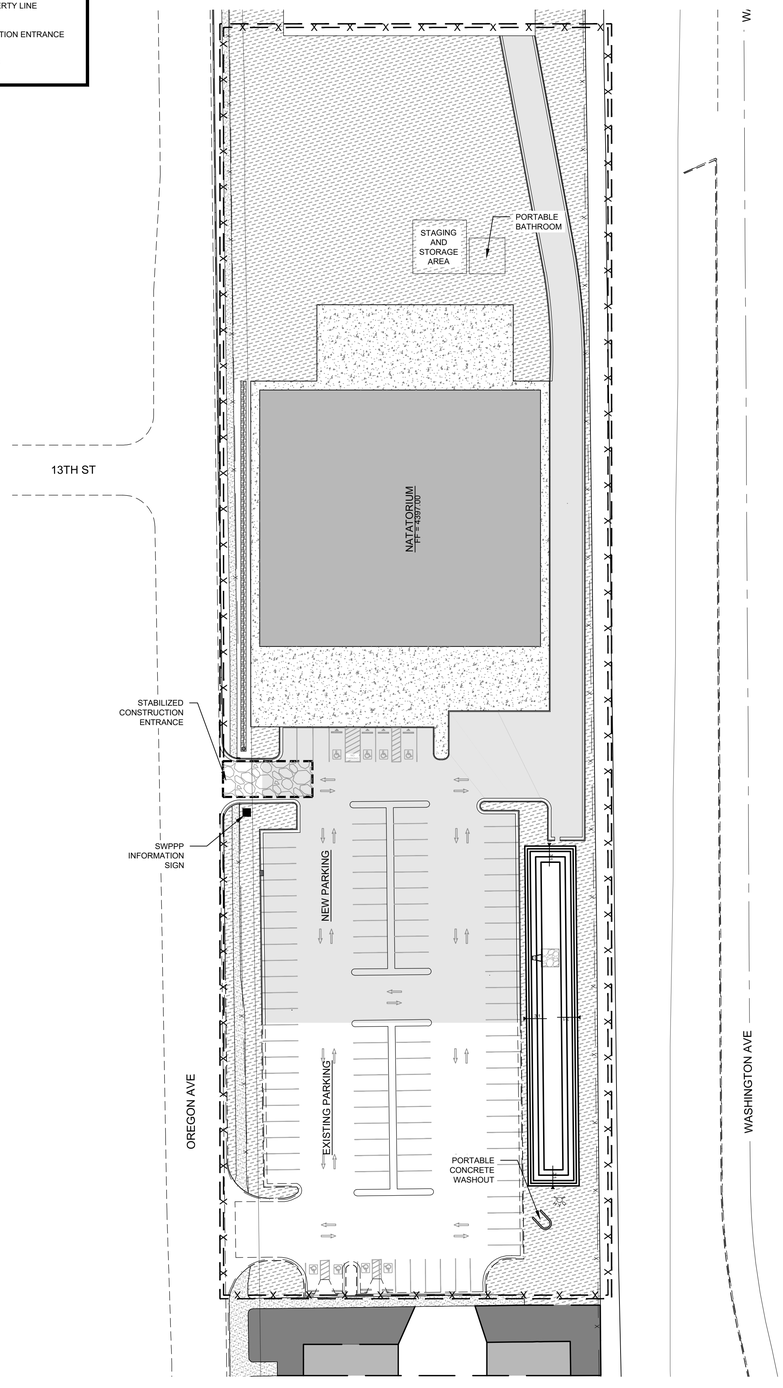
LEGEND

4398	=	EXISTING MAJOR CONTOUR
4396	=	EXISTING MINOR CONTOUR
4396	=	PROPOSED MAJOR CONTOUR
4395		PROPOSED MINOR CONTOUR
	=	PROJECT LIMITS/PROPERTY LINE
	=	STABILIZED CONSTRUCTION ENTRANCE
X X X	=	PROPOSED SILT FENCE

PROJECT AREA:

TOTAL SITE AREA	= 3.5 AC
TOTAL DISTURBED AREA	= 3.5AC



SEQUENCE OF CONSTRUCTION:

DESCRIBED BELOW ARE THE MAJOR CONSTRUCTION ACTIVITIES THAT ARE THE SUBJECT TO THIS PLAN. ALSO INCLUDED IN THE SEQUENCE ARE STORM WATER CONTROLS INSTALLATION ACTIVITIES THAT MUST TAKE PLACE PRIOR TO CONSTRUCTION ACTIVITIES. **NOTE: DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED.** ACTIVITIES ARE PRESENTED IN THE SEQUENCE THEY ARE EXPECTED TO BE COMPLETED. CONTRACTOR TO IMMEDIATELY DENOTE ON THIS PLAN ANY CHANGES IN STORM WATER CONTROLS LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS. THE SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:

1. INSTALL SWPPP INFORMATION SIGN.
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT.
3. PREPARE STORAGE/STAGING AND MASON'S AREAS. UPON IMPLEMENTATION AND INSTALLATION, DENOTE THE FOLLOWING AREAS ON THIS PLAN: TRAILER PARKING, PORTABLE SANITARY FACILITIES, WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, AND SOLID WASTE CONTAINERS.
4. STOCKPILE SEDIMENT AND INSTALL SILT FENCE.
5. CLEAR AND GRUB THE SITE.
6. BEGIN GRADING THE SITE.
7. TEMPORARY STABILIZE STOCKPILE AREAS.
8. APPLY PERMANENT STABILIZATION.
9. INSPECT AND CLEAN-UP SITE.
10. REMOVE TEMPORARY STORM WATER CONTROLS (ONLY IF SITE IS "FINAL STABILIZED" AS PER 2017 CGP).
11. FILE OWNER AND OPERATOR NOTICE OF TERMINATION (NOT).

THE ACTUAL SCHEDULE FOR IMPLEMENTING STORM WATER CONTROLS WILL BE DETERMINED BY PROJECT CONSTRUCTION PROGRESS AND RECORDED BY THE CONTRACTOR ON THE SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE ON THIS PLAN.

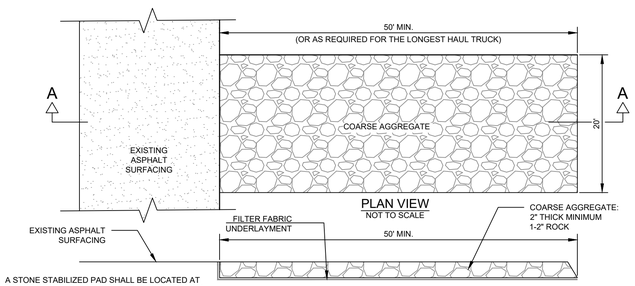
PONDING:

IF PONDS ARE TO BE USED FOR STORMWATER CONTROL DURING CONSTRUCTION, POND SIZE AND VOLUME CALCULATIONS CAN BE FOUND IN THE 'FINAL DRAINAGE REPORT' WHICH IS REFERENCED BELOW.

MAINTENANCE:

ALL STORM WATER CONTROLS STATED ON THIS SITE MAP SHALL BE MAINTAINED IN FULL FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL STORM WATER CONTROLS SHALL BE CHECKED AND REPAIRED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE NPDES/EPA PERMIT REQUIREMENTS.

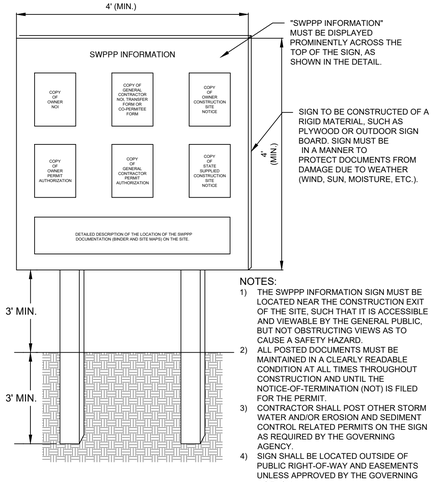
1. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES AND WADDLES WHEN IT REACHES ⅓ THE HEIGHT, OR AS NECESSARY FOR MAINTENANCE. IF FABRIC BECOMES CLOGGED, IT SHOULD BE CLEANED, OR REPLACED, IF NECESSARY.
2. HARDENED CONCRETE SHALL BE REMOVED FROM CONCRETE WASHOUT AREA ON A REGULAR BASIS.
3. THE CONSTRUCTION ENTRANCE/EXIT SHALL BE PERIODICALLY RE-GRADED AND/OR TOP DRESSED WITH ADDITIONAL STONE TO KEEP THE EFFICIENCY OF THE ENTRANCE FROM DIMINISHING. WHEN SEDIMENT HAS SUBSTANTIALLY CLOGGED THE VOID AREA BETWEEN THE ROCKS, THE AGGREGATE MUST BE WASHED DOWN AND/OR REPLACED.
4. CONSTRUCTION ENTRANCE/EXIT AREA SHALL BE INSPECTED FOR OFF-SITE TRACKING AND SWEPT AS NECESSARY.
5. SANITARY WASTES SHALL BE COLLECTED FROM PORTABLE SANITARY FACILITIES NOT LESS THAN ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY STATE AND LOCAL REGULATIONS.
6. SOLID WASTE COLLECTION SHALL NOT BE LESS THAN BI-WEEKLY OR MORE OFTEN IF NECESSARY.
7. THE STORAGE/STAGING AND MASON'S AREAS SHALL BE CLEARED OF DEBRIS, ANY DEBRIS AND/OR SEDIMENT REACHING THE PUBLIC STREET SHALL BE CLEARED IMMEDIATELY BY A METHOD OTHER THAN FLUSHING.



A STONE STABILIZED PAD SHALL BE LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF.

SECTION A-A

STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



NOTES:
1) THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE CONSTRUCTION EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE AND VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
2) ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
3) CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE GOVERNING AGENCY.
4) SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
5) CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THE SWPPP INFORMATION SIGN.

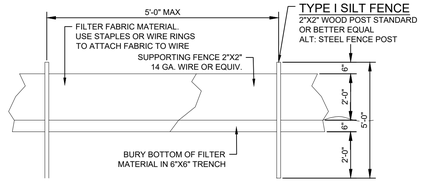
SWPPP INFORMATION SIGN
NOT TO SCALE

GENERAL EROSION NOTES:

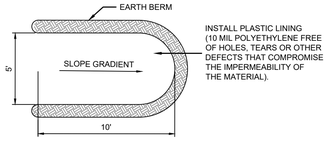
1. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE NPDES/EPA GENERAL PERMIT AND BECOME FAMILIAR WITH THEIR CONTENTS.
2. GENERAL CONTRACTOR SHALL IMPLEMENT STORM WATER CONTROLS AS REQUIRED BY NPDES. ADDITIONAL STORM WATER CONTROLS SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER, THROUGHOUT CONSTRUCTION.
3. STORM WATER CONTROLS SHALL CONFORM TO FEDERAL, STATE AND LOCAL REQUIREMENTS OR MANUAL OF PRACTICE. AS APPLICABLE, GENERAL CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
4. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
5. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, AND PAINTING-PLASTER TOOLS CLEANING) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATING BLOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS OR LEAKS.
7. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
8. RUBBISH, TRASH, GARBAGE, LITTER OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS SITE MAP SHALL BE INITIATED AS SOON AS PRACTICABLE.
10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED. THESE AREAS SHALL BE STABILIZED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRENCE IN THESE AREAS. PERMANENT STABILIZATION OF POND AND DISTURBED AREAS SPECIFICS MUST BE ADDED TO THE EROSION CONTROL PLAN. STABILIZATION OF POND AND DISTURBED AREAS TO INCLUDE SEEDING, EROSION CONTROL BLANKETS OR SIMILAR, AND WATERING.
11. IF THE ACTION OF VEHICLE TRAVELING OVER THE CONSTRUCTION ENTRANCE/EXIT IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF SITE.
12. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND OVER EXCAVATION FOR BUILDING FOOTINGS.
13. DUE TO THE CHANGE IN GRADING AND THE REQUIREMENTS OF CONSTRUCTION OPERATIONS THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE STORM WATER CONTROLS (STRAW WADDLES, EARTH BERMS, ETC.) TO PREVENT EROSION ON A DAILY BASIS AS PER CONSTRUCTION SCHEDULE.

GOOD HOUSE KEEPING PRACTICES:

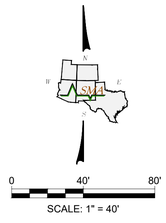
1. THE CONTRACTOR SHALL ESTABLISH A CONCRETE WASHOUT PIT BEFORE THE START OF CONSTRUCTION AND MARK ITS LOCATION ON THE SITE MAP.
2. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT THE SITE ENTRANCE AS DETERMINED BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL ESTABLISH A COMPREHENSIVE DUST CONTROL PLAN TO LIMIT OFF-SITE SEDIMENTATION BY CONTROLLING THE SITES POTENTIAL FOR PRODUCING AIRBORNE FUGITIVE DUST AND TRACK-OUT OF SEDIMENTS.
4. SANITARY FACILITIES ARE REQUIRED FOR ALL WORK SITES OR CONSTRUCTION AREAS.
5. SOLID WASTE MATERIALS SHALL BE STORED AND DISPOSED OF WITHIN DUMPSTER RENTED FROM AND COLLECTED BY A PRIVATE WASTE DISPOSAL CONTRACTOR. NO CONSTRUCTION WASTE MATERIALS SHALL BE DISPOSED OF OR BURIED ON-SITE.
6. THE CONTRACTOR SHALL ESTABLISH AN EQUIPMENT MAINTENANCE PLAN TO REDUCE CONTAMINATION OF ON-SITE SOILS.
7. CONSTRUCTION MATERIALS AND CHEMICALS SHALL BE SHELTERED IN COVERED STORAGE AREAS THAT HAVE A SPILL PROOF PERIMETER AROUND IT. LOCATE CHEMICAL STORAGE AREAS AWAY FROM LOW-LYING AREAS AND DRAINAGE PATHS.
8. THE CONTRACTOR SHALL ESTABLISH A SPILL PREVENTION PLAN THAT INCLUDES MEASURES TO LIMIT THE SCOPE OF A SPILL AND MINIMIZE ENVIRONMENTAL DAMAGE. IN THE EVENT OF A SPILL OF A HAZARDOUS SUBSTANCE, THE RESPONSIBLE PARTY SHALL IMMEDIATELY NOTIFY THE NATIONAL RESPONSE CENTER (800-424-8802 OR 202-426-2675), THE NEW MEXICO ENVIRONMENT DEPARTMENT (EMERGENCY LINE: 505-827-9329, NON-EMERGENCY LINE: 866-428-6535), AND THE LOCAL FIRE DEPARTMENT (575-437-0071).



SILT FENCE DETAIL
NOT TO SCALE



CONCRETE WASHOUT
NOT TO SCALE



SCALE: 1" = 40'

EROSION CONTROL PLAN
SCALE 1" =40'

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MICHAEL D. JAY NEW MEXICO 23781 PROFESSIONAL ENGINEER
PRELIMINARY NOT APPROVED

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BO	AB	MJ

Date: January 2026
Scale: AS SHOWN
Project No: 9334193
Sheet: C900

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ASA ARCHITECTS

ALAMOGORDO, NEW MEXICO

ALAMOGORDO NATATORIUM
ALAMOGORDO, NEW MEXICO
EROSION CONTROL PLAN

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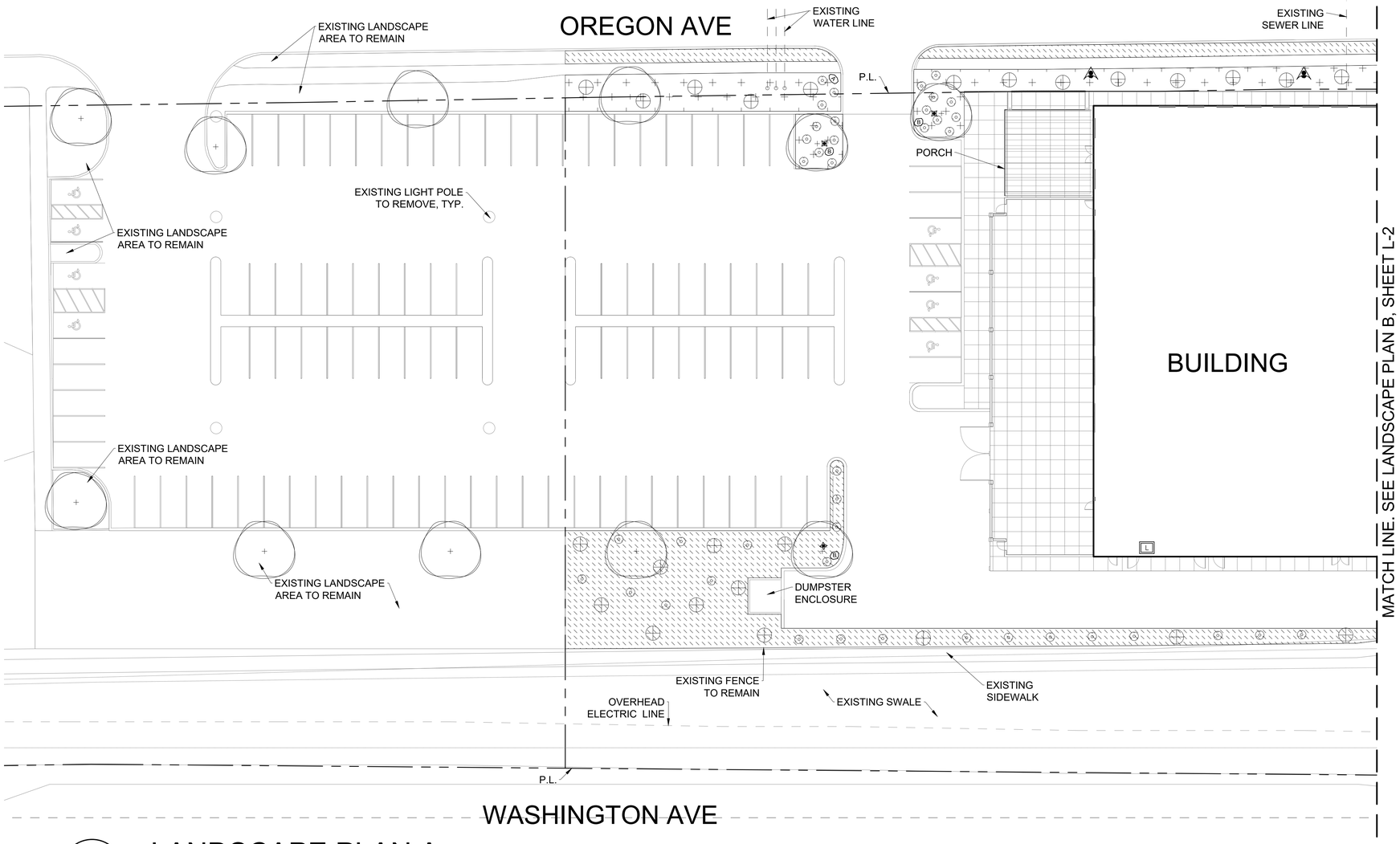
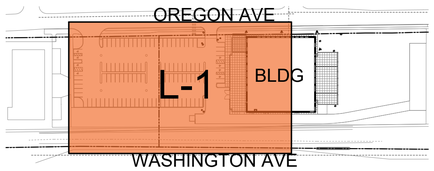


LANDSCAPE PLAN A

SCALE: 1" = 20'

0 20 40



KEYMAP

NTS

PLANT LEGEND

TREES	COMMON NAME	MIN. SIZE	MIN. HEIGHT	QTY
+	PROPOSED TREE	2" CAL. / 24" BOX	10`	14
	NOTE: MULTI-TRUNK TREES SHALL BE 2" CALIPER, WITH CALIPER EQUALING THE DIAMETER OF THE LARGEST TRUNK PLUS HALF THE DIAMETER OF THE NEXT THREE LARGEST TRUNKS			
SHRUBS	COMMON NAME	SIZE	MIN. HEIGHT	QTY
⊕	PROPOSED SHRUB A	5 GALLON LOW WATER	18"	47
⊙	PROPOSED SHRUB B	5 GALLON LOW WATER	18"	63

MATERIALS LEGEND

AMENITIES					
SYMBOL	DESCRIPTION	QTY	MODEL	COLOR	DETAIL
Ⓐ	BOULDER A	2	3` MIN.	DESERT TAN	SEE DETAIL 4, SHEET L-5
Ⓑ	BOULDER B	6	EQUAL MIX OF 1` & 2`	DESERT TAN	SEE DETAIL 4, SHEET L-5

ROCK					
SYMBOL	DESCRIPTION	QTY	COLOR	DEPTH	NOTES
	3/8" ROCK	21,364 SF	GOLDEN BROWN	2"	WITHOUT WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-5
+ + + + + +	ROCK MIX 75% 2"-4" 25% 3/4"	7,687 SF	TRAIL MIX	4"	WITHOUT WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-5

LIGHTING LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	SHRUB DIRECTIONAL LIGHT MODEL: MINI-BEAM-2700-90. SEE DETAIL 7, SHEET L-5	4
	TREE UP-LIGHT FX LUMINAIRE WELL LIGHT MODEL: CN-51 RG SEE DETAIL 6, SHEET L-5	3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	LIGHTING TRANSFORMER / CONTROLLER PX LUMINAIRE MODEL MULTI-TAP PX-150-SS, 150 WATT WITH EX-PC PHOTOCELL AND PX-TIMER MANUAL TIMER. SEE ELECTRICAL SHEETS. SEE DETAIL 5, SHEET L-5	1
CONTACT JACOB ORTA, 915.270.0859 OR JRORTA@WINSUPPLYINC.COM FOR LIGHTING INFO		

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JONATHAN MATTHEWS
NM #589

THE DRY LAND
LANDSCAPE ARCHITECTURE
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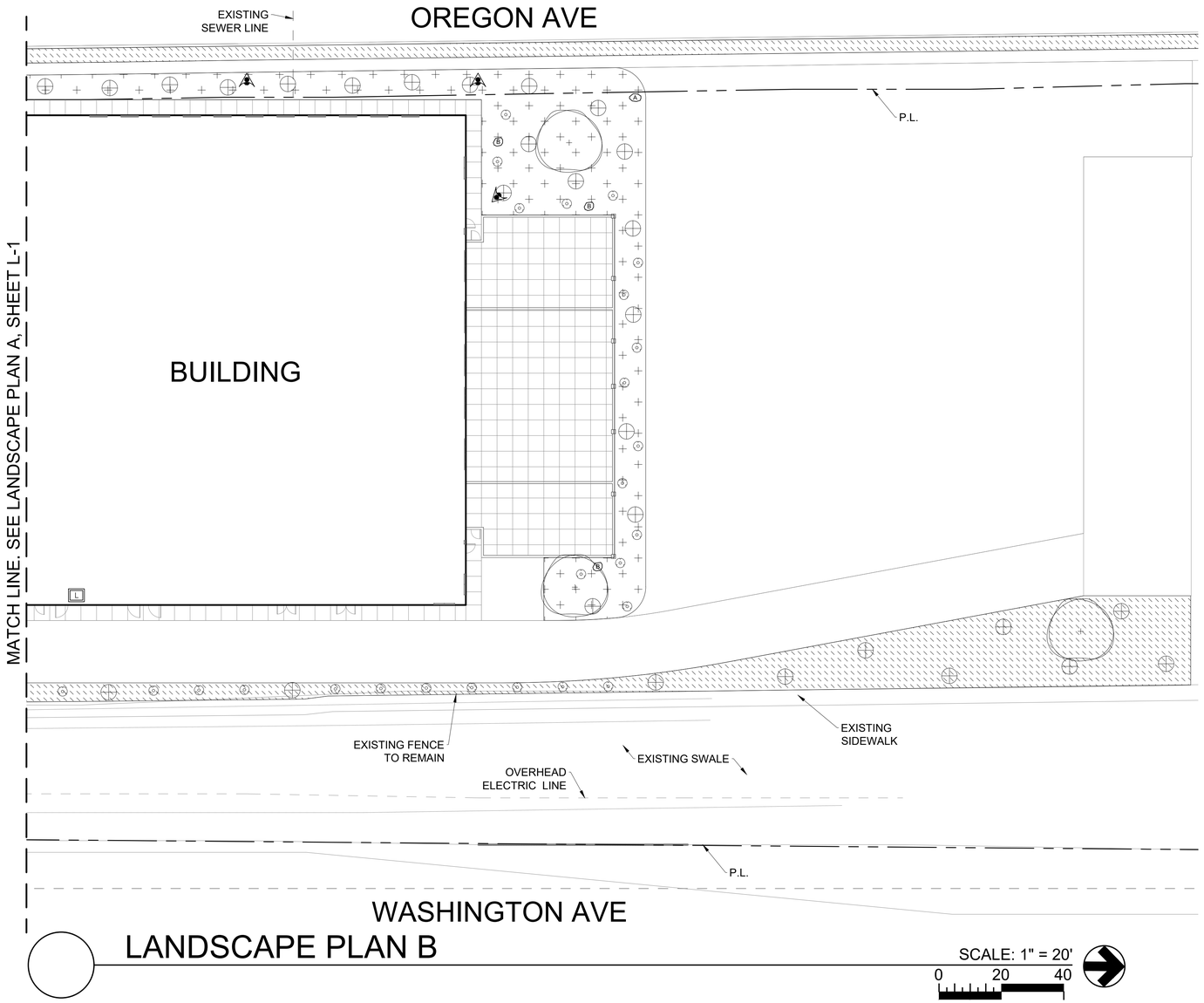
INFO@THEDRYLAND.COM

ALAMOGORDO NATATORIUM

CLIENT: ASA
ADDRESS: 1100 OREGON AVE
ALAMOGORDO, NM 88310

PHASE:	LANDSCAPE PLAN A	
60%		
SHEET #:	DATE:	SHEET CODE:
1 OF 7	1.26.26	L-1



LANDSCAPE PLAN B

SCALE: 1" = 20'
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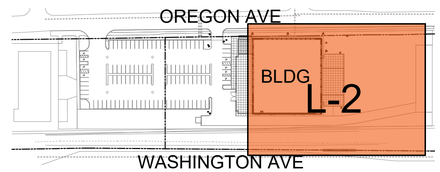

KEYMAP
NTS

PLANT LEGEND

TREES	COMMON NAME	MIN. SIZE	MIN. HEIGHT	QTY
+	PROPOSED TREE	2" CAL. / 24" BOX	10`	14
	NOTE: MULTI-TRUNK TREES SHALL BE 2" CALIPER, WITH CALIPER EQUALING THE DIAMETER OF THE LARGEST TRUNK PLUS HALF THE DIAMETER OF THE NEXT THREE LARGEST TRUNKS			
SHRUBS	COMMON NAME	SIZE	MIN. HEIGHT	QTY
⊕	PROPOSED SHRUB A	5 GALLON LOW WATER	18"	47
⊙	PROPOSED SHRUB B	5 GALLON LOW WATER	18"	63

*SEE IRRIGATION LEGEND FOR WATER REQUIREMENTS FOR LOW WATER-USE PLANTS

MATERIALS LEGEND

AMENITIES					
SYMBOL	DESCRIPTION	QTY	MODEL	COLOR	DETAIL
(A)	BOULDER A	2	3` MIN.	DESERT TAN	SEE DETAIL 4, SHEET L-5
(B)	BOULDER B	6	EQUAL MIX OF 1` & 2`	DESERT TAN	SEE DETAIL 4, SHEET L-5

ROCK					
SYMBOL	DESCRIPTION	QTY	COLOR	DEPTH	NOTES
	3/8" ROCK	21,364 SF	GOLDEN BROWN	2"	WITHOUT WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-5
	ROCK MIX 75% 2"-4" 25% 3/4"	7,687 SF	TRAIL MIX	4"	WITHOUT WEED-BARRIER FABRIC. SEE DETAIL 3, SHEET L-5

LIGHTING LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	SHRUB DIRECTIONAL LIGHT MODEL: MINI-BEAM-2700-90. SEE DETAIL 7, SHEET L-5	4
	TREE UP-LIGHT FX LUMINAIRE WELL LIGHT MODEL: CN-51 RG SEE DETAIL 6, SHEET L-5	3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
L	LIGHTING TRANSFORMER / CONTROLLER PX LUMINAIRE MODEL MULTI-TAP PX-150-SS, 150 WATT WITH EX-PC PHOTOCELL AND PX-TIMER MANUAL TIMER. SEE ELECTRICAL SHEETS. SEE DETAIL 5, SHEET L-5	1
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PHASE:	LANDSCAPE PLAN B	
60%		
SHEET #:	DATE:	SHEET CODE:
2 OF 7	1.26.26	L-2

VITEX
Vitex Agnus-Castus
25' H x 20' W

SWEET ACACIA
Acacia Farnesiana
30' H x 30' W

PALO VERDE 'DESERT MUSEUM'
Cercidium x 'Desert Museum'
25' H x 25' W

HONEY MESQUITE
Prosopis Glandulosa
35' H x 35' W

SOUTHERN LIVE OAK
Quercus Virginiana
80' H x 120' W

CENTURY AGAVE
Agave americana
6' H x 10' W

NEW MEXICO AGAVE
Agave Newmexicana
3' H x 3' W

BLUE GLOW AGAVE
Agave X 'Blue Glow'
2' H x 3' W

ENGELMANN'S PRICKLY PEAR
Opuntia Engelmanii
6' H x 15' W

PURPLE PRICKLY PEAR
Opuntia Violacea 'Santa Rita'
4' H x 6' W

SPINELESS PRICKLY PEAR
Opuntia Cacanapa 'Ellisiana'
4' H x 6' W

ANGEL'S WINGS
Opuntia Microdasys Albispina
3' H x 5' W

GOLDEN BARREL CACTUS
Echinocactus Grusonii
4' H x 3' W

OCOTILLO
Fouquieria Splendis
18' H x 10' W

GIANT HESPERALOE
Hesperaloe Funifera
6' H x 6' W

SOTOL
Dasylirion Wheeleri
6' H x 6' W

CANARY ISLAND DATE PALM
Phoenix Canariensis
60' H x 50' W

ARIZONA ROSEWOOD
Vauquelinia Californica
20' H x 15' W

CREOSOTE BUSH
Larrea Tridentata
6' H x 8' W

RUSSIAN SAGE
Perovskia Abrotanoides
5' H x 5' W

ROSEMARY UPRIGHT
Rosmarinus Officinalis 'Arp'
6' H x 4' W

FLAME ACANTHUS
Anisacanthus Quadrifidus
5' H x 4' W

RUELLIA
Ruellia Nudiflora
3' H x 2' W

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PHASE:	PLANT IMAGES	
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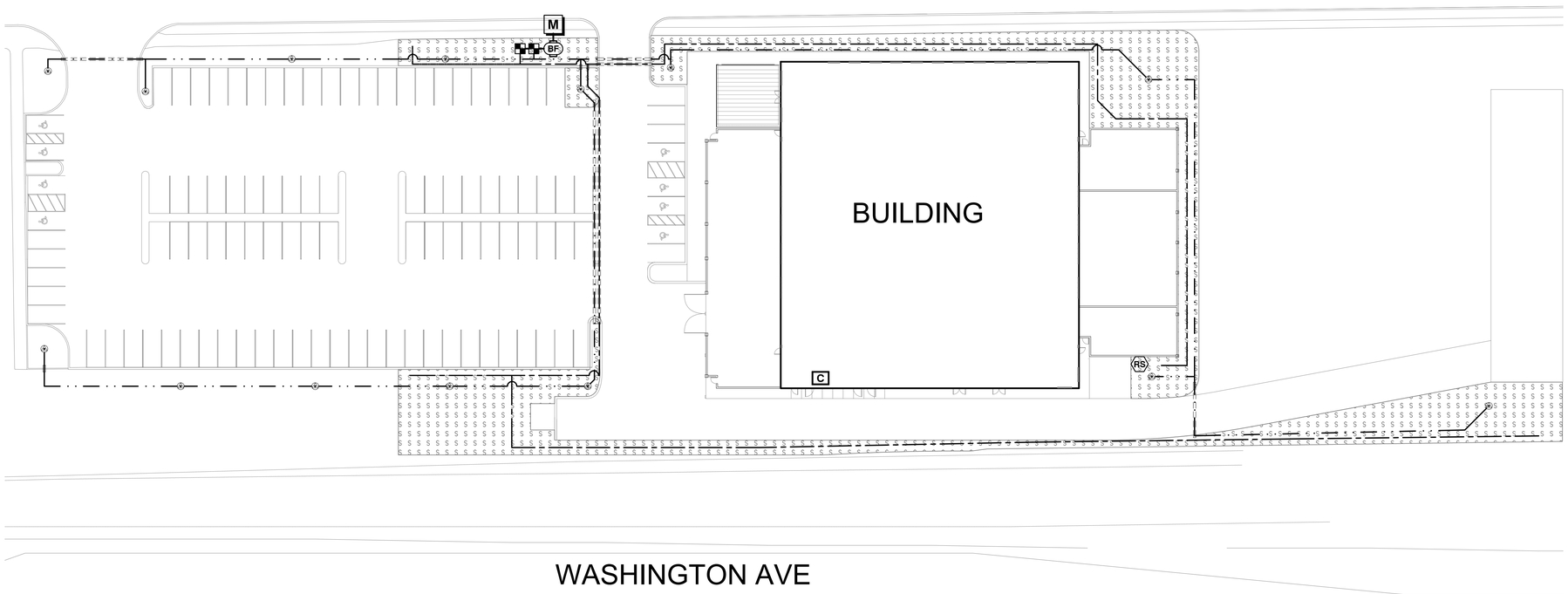
SHEET #:	DATE:	SHEET CODE:
3 OF 7	1.26.26	L-3

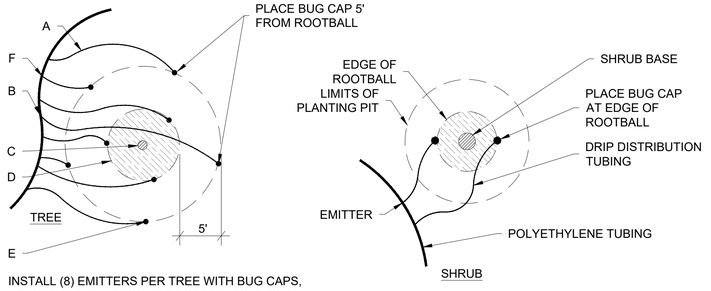


IRRIGATION PLAN

SCALE: 1" = 30'
0 30 60

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
■	RAINBIRD CONTROL ZONE KIT MODEL XCZ-PRB-100-COM. WITH 2W-1 DECODER SEE DETAIL 3, SHEET L-6
⊛	TREE DRIP EMITTERS 3/4" POLY TUBING FEEDING RAINBIRD PC-05 EMITTERS (LIGHT BROWN 5.0 GPH), 8 PER TREE. SEE DETAILS ON THIS SHEET
	AREA TO RECEIVE DRIP EMITTERS FOR SHRUBS 3/4" POLY TUBING FEEDING RAINBIRD EMITTERS FOR SHRUBS IN THIS AREA. EACH PORTION OF POLY TUBING NOT TO FEED MORE THAN 70 SHRUBS, POLY TUBING TO NOT RUN LONGER THAN 50 FT. EXTEND PVC LATERALS AS NEEDED. RAIN BIRD XB-20PC (RED 2.0 GPH) FOR 5 GALLON SHRUBS RAIN BIRD XB-05PC (BLUE 0.5 GPH) FOR 5 GALLON LOW-WATER USE SHRUBS SEE DETAILS ON THIS SHEET
	Emitter Notes: 0.5 GPH emitters (2 assigned to each 5 GALLON LOW WATER plant)
	2.0 GPH emitters (2 assigned to each 5 GALLON plant)
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
BF	RP BACKFLOW: FEBCO 825Y 3/4" RP BACKFLOW PREVENTER WITH BROWN HUBBELL ENCLOSURE WITH HEAVY DUTY LOCK. BACKFLOW TO MEET CLASS 2, ASSE #1060. SEE DETAIL 4, SHEET L-6
C	CONTROLLER: RAIN BIRD ESP-2WIRE TWO-WIRE CONTROLLER. INSTALL AT EYE-LEVEL. CONTRACTOR TO PROVIDE POWER SERVICE INSTALLATION TO CONTROLLER. WITH WIFI LNK2 MODULE INCLUDED. WITH TO 2W-1 DECODER. PROVIDE WITH RAIN BIRD LSP-1 SURGE PROTECTOR ON TWO-WIRE PATH, EVERY 500 FT OR EVERY 8 DECODERS. SEE DETAIL 5, SHEET L-6
RS	RAIN BIRD RSD-BEX CONDUIT MOUNT, WITH THREADED ADAPTER, EXTENSION WIRE. SEE DETAIL 6, SHEET L-6
M	WATER METER 1" SEE CIVIL / PLUMBING SHEETS. ASSUMED PRESSURE AT SERVICE LINE IN STREET IS 50 PSI AND ASSUMED FLOW IS 30 GPM
— · — · —	IRRIGATION LATERAL LINE: PVC CLASS 200 FOR TREES SEE PLAN FOR PIPE SIZE. SEE DETAIL 1, SHEET L-6
— - — - —	IRRIGATION LATERAL LINE: PVC CLASS 200 FOR SHRUBS SEE PLAN FOR PIPE SIZE. SEE DETAIL 1, SHEET L-6
— — — —	IRRIGATION MAINLINE: PVC SCHEDULE 40 PIPE. 1.5" DIAMETER. SEE DETAIL 1, SHEET L-6
— - — - —	IRRIGATION MAINLINE: TYPE K COPPER SERVICE LINE FROM METER TO BACKFLOW, 1.5" SEE DETAIL 1, SHEET L-6
= = = = =	PIPE SLEEVE: PVC SCHEDULE 40 SIZED 2 SIZES LARGER THAN TOTAL DIAMETER OF PIPES WITHIN. HARDSCAPE. IF DISTURBED, CONTRACTOR IS RESPONSIBLE TO PATCH AND REPAIR. SEE DETAIL 2, SHEET L-6



INSTALL (8) EMITTERS PER TREE WITH BUG CAPS, SPACED EVENLY AROUND ROOTBALL AS SHOWN. SEE IRRIGATION LEGEND FOR OUTLET EMITTER SIZE.

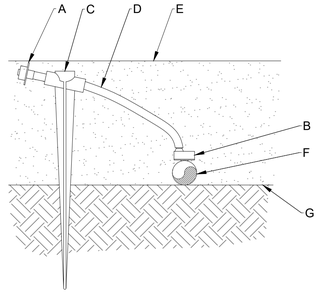
A. EMITTER TUBING
B. POLYETHYLENE TUBING
C. TREE TRUNK
D. TREE ROOTBALL
E. BUG CAP
F. DRIP EMITTER

NOT ALL PLANTS RECEIVE SAME EMITTERS

- TREES - 5 GPH
- REGULAR 5-GAL SHRUBS - 2 GPH
- LOW WATER-USE SHRUBS & 1-GAL SHRUBS - 0.5 GPH

DRIP EMMITER PLACEMENT

SCALE: NTS



A. RAINBIRD DIFFUSER BUG CAP
B. RAIN BIRD XERI-BUG OR PRESSURE COMPENSATING MODULE EMITTER.
SEE IRRIGATION LEGEND FOR EMITTER MODEL
C. UNIVERSAL 1/4" TUBING STAKE: RAIN BIRD TS-025
D. 1/4" DISTRIBUTION TUBING: RAIN BIRD XQ TUBING (LENGTH AS REQUIRED)
E. TOP OF GROUNDCOVER
F. 3/4" POLYETHYLENE TUBING: RAIN BIRD XT-700 SERIES TUBING
G. FINISH GRADE

NOTES:
1. USE RAIN BIRD XERIMAN TOOL XM-TOOL TO INSERT BARB CONNECTOR DIRECTLY INTO ½" POLYETHYLENE TUBING
2. SHOULD THE EMITTER BECOME DISLODGED, UNREGULATED FLOW WILL OCCUR

DRIP EMMITER ASSEMBLY

SCALE: NTS

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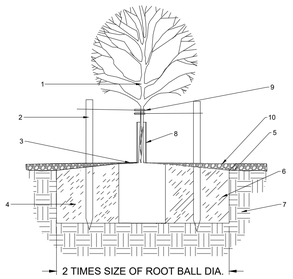
PHASE:		
60%	IRRIGATION PLAN	
SHEET #:	DATE:	SHEET CODE:
4 OF 7	1.26.26	L-4



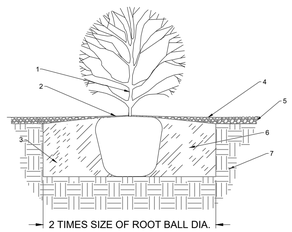
1. TREE
2. STAKING
3. FEATHER ROCK (IF USED) TO BASE OF TRUNK
4. PLANTING HOLE
5. FINISH SOIL GRADE
6. BACKFILL WITH EXISTING NATIVE SOIL
7. UNDISTURBED SOIL
8. TREE GUARD IF TREE IS LOCATED IN TURF
9. TIES TO STAKES TO HAVE RUBBER HOSE TO PROTECT TREE TRUNK FROM DAMAGE BY WIRE. WIRE TIES TO BE SLIGHTLY LOOSE (1"-2" PLAY ON PLAN) TO ALLOW SOME MOVEMENT OF TRUNK. WIRE TIES TO BE SET ON SAME TRUNK AND MAIN TRUNK. WIRE COLOR TO BE BLACK OR GRAY
10. FINISH MATERIAL, SEE LANDSCAPE PLAN

NOTES:

A. KEEP SOIL BELOW ROOT BALL UNDISTURBED TO PREVENT TREE FROM SETTLING
B. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE TRUNK). PLANT WITH ROOT FLARE 1"-2" HIGHER THAN FINISH GRADE
C. FOR CONTAINER TREES REMOVE CONTAINER AND CUT ANY ROOTS THAT ARE CIRCLING THE CONTAINER PRIOR TO SETTING TREE IN PLANTING HOLE. PRIOR TO BACKFILLING, REMOVE BURLAP, ROPE, TWINE, AND WIRE FROM SIDES AND TOP OF ROOTBALL AND FROM PLANTING HOLE, CUT ANY ROOTS THAT ARE CIRCLING THE CONTAINER
D. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE
E. AT THE TIME OF PLANTING, ONLY PRUNE CO-DOMINANT LEADERS (DOES NOT APPLY TO MULTI-TRUNK SPECIMENS), CROSSOVER LIMBS, AND DEAD OR BROKEN BRANCHES
F. WHEN DONE PLANTING, THOROUGHLY WATER TO ELIMINATE AIR POCKETS
G. STAKING IS NOT ALWAYS REQUIRED - STAKE TREES ONLY IF TREE CANNOT STAND ALONE AND / OR AS REQUESTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL NOT STAKE ALL TREES INDISCRIMINATELY, APPROVAL FROM OR DIRECTION BY THE LANDSCAPE ARCHITECT MUST BE OBTAINED TO STAKE TREES
H. WITH APPROVAL, PROVIDE MIN. 3 WOOD STAKES PER TREE IN A TRIANGULAR PATTERN, STAKED INTO UNDISTURBED SOIL, REMOVE AFTER ONE GROWING SEASON
I. TOP OF ROOT BALL SHALL BE LEVEL WITH TOP OF MULCH. MULCH SHALL BE FEATHERED TO BE FULL DEPTH
J. TREES PLANTED IN ROCKY, CALICHE OR CLAY SOILS OR SOILS COMPACTED TO 90% OR MORE TO HAVE PIT EXCAVATED 5 TIMES THE SIZE OF THE ROOT BALL
K. TREES PLANTED IN ROCKY, CALICHE, AND CLAY SOILS TO HAVE 1/3 TO 1/2 TOP SOIL BLENDED WITH CLAY SOIL AND USED AS BACKFILL
L. TREES PLANTED IN ROCKY SOILS ARE TO HAVE ALL ROCKY MATERIAL LARGER THAN 1" IN SIZE REMOVED
M. ALL TREES SHALL BE PRUNED TO ALLOW CODE-REQUIRED CLEARANCE FOR ALL ACCESSIBLE PATHS
N. CALIPER OF TREE TO BE DETERMINED BY MEASURING THE DIAMETER OF TREE 6" ABOVE TOP OF ROOTBALL
O. ALL STAKING PROVIDED BY NURSERY AND TAGS PROVIDED BY NURSERY TO BE REMOVED FROM ALL PLANT MATERIAL

1 TREE PLANTING

SCALE: NTS

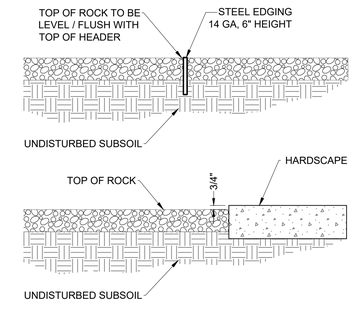


1. SHRUB, GROUND COVER, CACTUS, OR VINE
2. FEATHER ROCK TO BASE OF STEM
3. PLANTING HOLE
4. FINISH MATERIAL, SEE LANDSCAPE PLAN
5. FINISH SOIL GRADE
6. BACKFILL WITH EXISTING NATIVE SOIL
7. UNDISTURBED SOIL

A. KEEP SOIL BELOW ROOTBALL UNDISTURBED TO PREVENT SHRUB FROM SETTLING
B. REMOVE ANY EXCESS SOIL FROM TOP OF ROOTBALL TO EXPOSE ROOT FLARE (WHERE TOP MOST ROOT EMERGES FROM THE STEM). PLANT WITH ROOT FLARE LEVEL WITH FINISH GRADE
C. TAMP SOIL FIRMLY AROUND BASE OF ROOTBALL WITH FOOT PRESSURE
D. WHEN DONE PLANTING, THOROUGHLY WATER TO ELIMINATE AIR POCKETS
E. SHRUBS, GROUND COVER, CACTUS OR VINES PLANTED IN ROCKY, CALICHE, AND CLAY SOILS OR SOILS COMPACTED TO 90% OR MORE TO HAVE PIT EXCAVATED 5 TIMES THE SIZE OF THE ROOTBALL
F. SHRUBS, GROUND COVER, CACTUS OR VINES PLANTED IN ROCKY, CALICHE, AND CLAY SOILS TO HAVE 1/3 TO 1/2 TOP SOIL BLENDED WITH CLAY SOIL AND USED AS BACKFILL
G. SHRUBS, GROUND COVER, CACTUS OR VINES PLANTED IN ROCKY SOIL ARE TO HAVE ROCKY MATERIAL LARGER THAN 1" IN SIZE REMOVED

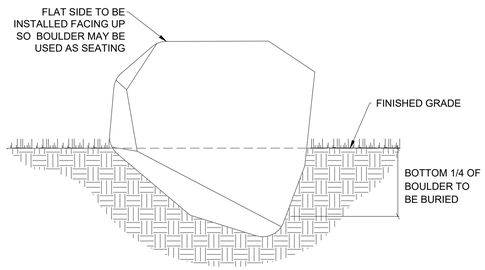
2 SHRUB PLANTING

SCALE: NTS



3 LANDSCAPE ROCK AND EDGING

SCALE: NTS



4 BOULDER

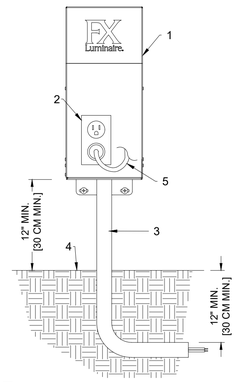
SCALE: NTS

LEGEND:

1. FX LUMINAIRE MULTI-TAP PX TRANSFORMER. MOUNT TO WALL WITH STAINLESS STEEL SCREWS
2. GFI PROTECTED 120V POWER WITH WATERPROOF OUTLET COVER. POWER CONNECTION TO BE LOCATED INSIDE BOX. SEE ELECTRICAL SHEETS
3. INSTALL LOW VOLTAGE CABLES INSIDE 1.5" [4 CM] DIA. GRAY PVC CONDUIT UNTIL CABLE IS 12" [30 CM] BELOW FINISHED GRADE
4. FINISHED GRADE
5. TRANSFORMER POWER CABLE AND PLUG

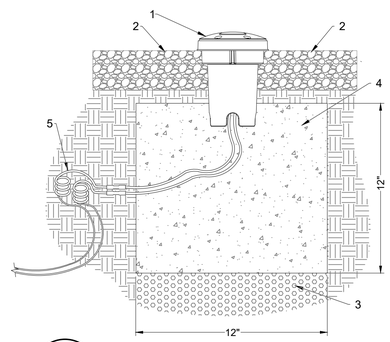
NOTES:

A. FX LUMINAIRE MULTI-TAP PX TRANSFORMER. SEE LIGHTING PLAN FOR WATTAGE, SIZE AND SWITCHING TYPE
B. ALL METAL PARTS MUST BE GROUNDED IN ACCORDANCE TO NEC GUIDELINES
C. BOTTOM OF TRANSFORMER CABINET TO BE A MINIMUM OF 12" [30 CM] ABOVE FINISHED GRADE
D. MOUNT BEHIND PLANT MATERIAL OR BOULDERS TO OBSCURE A DIRECT VIEW OF THE TRANSFORMER
E. LOCATE AWAY FROM SPRAY OF IRRIGATION HEADS
F. ALWAYS REFER TO FX PRODUCT INSTALLATION NOTES PRIOR TO INSTALLATION.
G. UNIT EMITS A HUM. DO NOT MOUNT ON EXTERIOR BEDROOM OR OFFICE WALLS



5 LIGHTING CONTROLLER

SCALE: NTS



LEGEND:

1. SEE PLAN FOR FIXTURE MODEL
2. LANDSCAPE ROCK. SEE LANDSCAPE PLAN
3. DRAINAGE MATERIAL, 3" DEPTH OF 3/4" ROCK
4. CONCRETE FOOTING
5. DIRECT BURY, UF/UL, COPPER, LOW VOLTAGE CABLE WITH UL 486D (IEC/EN 60998) RATED WATERPROOF CONNECTION. LEAVE 24" MINIMUM WIRE LOOP COILED ADJACENT TO FOOTING FOR FUTURE SERVICE

NOTES:

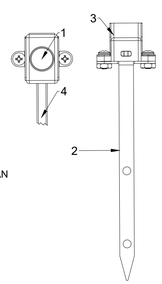
A. FIXTURE REQUIRES 8 -15V AC/DC
B. INSTALL TO A UL 1838 (IEC/EN 61347) LISTED TRANSFORMER. SEE PLAN FOR MODEL AND LOCATION
C. PROVIDE WATERPROOF CONNECTIONS FOR ALL SPLICES
D. ONLY BURY 1/3 OF FIXTURE IN CONCRETE TO ALLOW FIXTURE VENTILATION

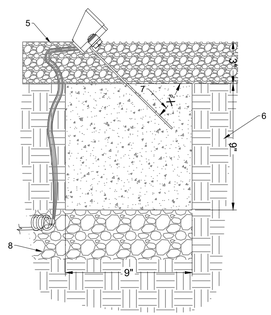
6 TREE UPLIGHT

SCALE: NTS

DETAIL LEGEND:

1. FIXTURE DIODE, SEE PLAN FOR MODEL.
2. STEEL STAKE
3. BRASS SHIELD TO DIRECT BEAM
4. DIRECT BURY, UF/UL, COPPER, LOW VOLTAGE CABLE WITH UL 486D (IEC/EN 60998) RATED WATERPROOF CONNECTION. LEAVE MINIMUM WIRE LOOP COILED BELOW FIXTURE FOR FUTURE SERVICE.
5. LANDSCAPE ROCK. SEE LANDSCAPE PLAN
6. CONCRETE FOOTING
7. ADJUST ANGLE TO MAXIMIZE / OPTIMIZE LIGHT AVERAGE ONTO RECEIVING OBJECT / SHRUB
8. DRAINAGE MATERIAL ROCK





NOTES:

A. FIXTURE REQUIRES 8-15V AC/DC
B. INSTALL TO A UL 1838 (IEC/EN 61347) LISTED TRANSFORMER
C. DIG HOLE AND INSERT CONSTRUCTION SLEEVE. USE DRAINAGE MATERIAL BELOW SLEEVE. FILL SOIL OR CONCRETE TO TOP OF SLEEVE COVER (IF APPLICABLE). RUN WIRING INTO CONSTRUCTION SLEEVE.

7 SHRUB DIRECTIONAL LIGHT

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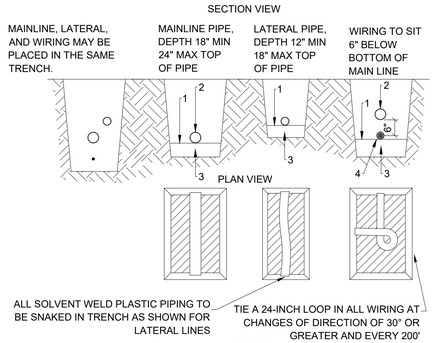
PHASE:	PLANTING DETAILS	
60%		
SHEET #:	DATE:	SHEET CODE:
5 OF 7	1.26.26	L-5



NOTES:

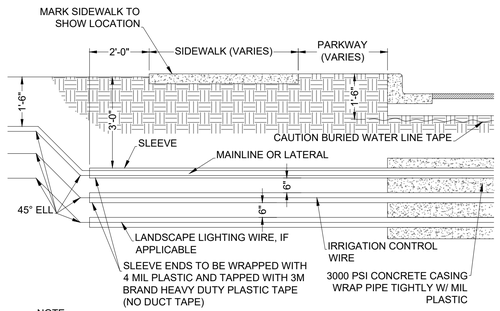
1. BOTTOM OF EXCAVATED TRENCH WHERE NO ROCKY SOILS ARE ENCOUNTERED
2. IRRIGATION SYSTEM PIPING
3. MINIMUM 4" DEEP BEDDING SANDY SOILS MATERIAL WHERE ROCKY SOILS ARE ENCOUNTERED
4. IRRIGATION VALVE WIRING

A. BACKFILL SOILS MATERIAL MAY BE NATIVE SOILS IF IT IS FREE OF CALICHE OR STONES LARGER THAN 1" IN SIZE AND ORGANIC MATTER OR WASTE DEBRIS SOILS COMPACTION IN TURF AREAS TO BE 80% TO 85% DENSITY BY ATSM D-1557 STANDARD AND AT 95% DENSITY UNDER PAVED OR HARDSCAPE SURFACES

B. ALL WIRING UNDER PARKING LOT SHALL BE INSIDE 1-1/4" WIRE CONDUIT

1 PIPE/WIRE IN TRENCH

SCALE: NTS



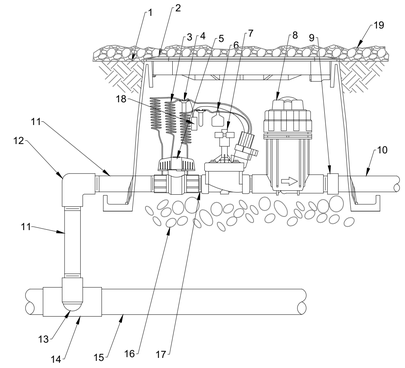
NOTE:

A. SLEEVE TO BE KEPT CLEAN AND FREE OF SOIL AND DEBRIS

B. AVOID BOULDERS CLOSER TO IRRIGATION AND LIGHTING LINES, MINIMUM OFFSET OF 12". SLEEVE IF NECESSARY.

2 SLEEVE DETAIL

SCALE: NTS

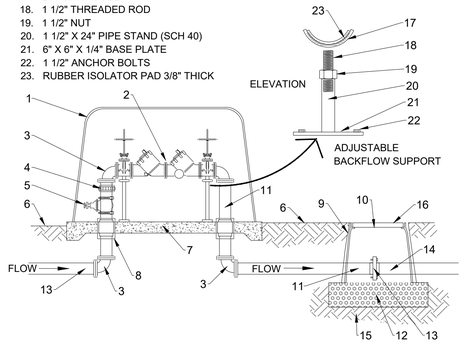


1. FINISH GRADE/TOP OF MULCH
2. RAIN BIRD VB SERIES VB-STD-B VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISHED MATERIAL AND VB-STD-6EXT-B STANDARD EXTENSIONS AS NECESSARY OR APPROVED EQUAL WITH COVER. BOLT DOWN
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
5. 1-INCH BALL VALVE (INCLUDED IN XCZ-PRB-100-COM KIT)
6. ID TAG
7. REMOTE CONTROL VALVE: RAIN BIRD PESB (INCLUCED IN XCZ-PRB-100-COM KIT)
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-100-COM KIT)
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-100-COM KIT)
18. PROVIDE 2W-1 DECODER
19. SPRINKLE ROCK ON BOX COVER TO PROVIDE 50% COVERAGE IF LOCATED IN AN AREA WITH ROCK

3 DRIP VALVE KIT 2-WIRE WITH DECODER

SCALE: NTS

1. HUBBELL INSULATED ENCLOSURE, ASSE 1060-CLASS 2
2. REDUCED PRESSURE ASSEMBLY BACKFLOW PREVENTER
3. COPPER FITTINGS
4. COPPER UNION, 4" AND ABOVE GRADE, MIN.
5. BRASS BALL VALVE SIZE. TO MAIN LINE
6. FINISH GRADE
7. 4000 PSI CONCRETE PAD. 4" DEPTH, SLOPED 1% TO DRAIN
8. PIPE SHALL BE SLEEVED THROUGH CONCRETE PAD WITH SCH 40 PVC SEAL PIPE
9. PROVIDE PRO 5 WEED CLOTH ALONG SIDES AND BASE OF VALVE BOX, TAPE TO ALL INLET AND OUTLET PIPE WITH HEAVY DUTY PLASTIC 3M TAPE
10. CARSON PRODUCTS INC, 1419 -18 (ABS) VALVE BOX WITH BOLT DOWN FLAT LID COVER TO MATCH COLOR OF FINISHED MATERIAL AND 8" EXTENSIONS AS NECESSARY OR APPROVED EQUAL WITH COVER
11. TYPE K COPPER PIPING
12. 3/8" WASHED PEA GRAVEL, 4" DEPTH
13. FLANGE
14. PVC MAINLINE. SIZE TO MATCH PROPOSED MAINLINE SIZE FOR NEW CONSTRUCTION
15. UNDISTURBED OR COMPACTED SOILS
16. SPRINKLE ROCK ON BOX COVER TO PROVIDE 50% COVERAGE IF LOCATED IN AN AREA WITH ROCK
17. 2 X 1/4" SADDLE
18. 1 1/2" THREADED ROD
19. 1 1/2" NUT
20. 1 1/2" X 24" PIPE STAND (SCH 40)
21. 6" X 6" X 1/4" BASE PLATE
22. 1 1/2" ANCHOR BOLTS
23. RUBBER ISOLATOR PAD 3/8" THICK



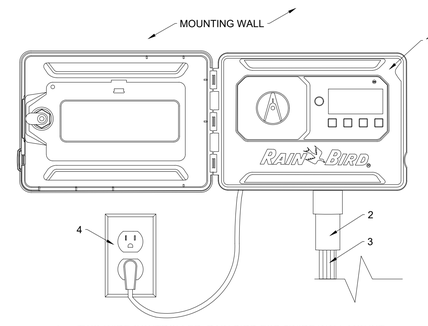
NOTE:

A. ALL ASSEMBLIES SHOULD BE ACCESSIBLE FOR PERIODIC TESTING AND MAINTENANCE AS ESTABLISHED BY LOCAL CODES. SUGGESTED 16" MINIMUM CLEARANCE FROM TEST COCKSIDE OF ASSEMBLY AND 12" MINIMUM CLEARANCE FROM VALVE BODY

B. PVC PIPE TO BE CLEAR OF VALVE BOX AND SOLID CMU BLOCK

4 REDUCED PRESSURE BACKFLOW PREVENTER

SCALE: NTS



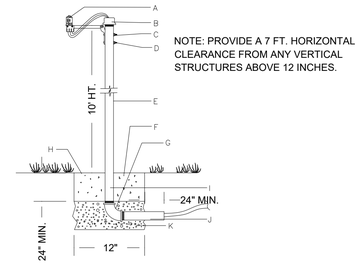
1. TWO-WIRE CONTROLLER: RAIN BIRD ESP-2WIRE WALL MOUNT
2. 1-INCH PVC SCH 40 CONDUIT AND FITTINGS
3. STANDARD DIRECT BURIAL WIRES TO CONTROL VALVES, SUPPORTS UP TO TWO 2-WIRE PATHS
4. STANDARD 120 V PLUG

NOTES:

- VALVES TO BE INSTALLED WITH 2W-1 DECODERS.
- FOR DECODER AUTO-ADDRESS, DECODERS SHALL BE INSTALLED IN CONSECUTIVE ORDER. MASTER VALVE WILL TAKE FIRST DECODER ADDRESS.
- FOR REMOTE MANAGEMENT, INSTALL WITH LNK2 WIFI MODULE.
- COMPATIBLE WITH STANDARD DIRECT BURIAL IRRIGATION WIRE AND STANDARD IRRIGATION WIRE CONNECTORS.
- WATER SENSE CERTIFIED WHEN INSTALLED WITH LNK2 WIFI MODULE AND WR2 RAIN/FREEZE SENSOR.

5 RAIN BIRD ESP-2WIRE CONTROLLER WALL-MOUNT

SCALE: NTS



A. RAIN BIRD RSD-BEx RAIN SENSOR. SET TO 1/8"
B. 2 1/2 " PIPE CAP WITH HOLE FOR WIRES AND SEAL WITH EXTERIOR GRADE SILICONE SEALANT.
C. DRILL TWO 3/16" HOLES IN PIPE FOR SENSOR BRACKET.
D. (2) NO. 8-32 MACHINE SCREWS WITH WASHER, LOCK WASHER AND NUT.
E. 2 1/2" SCH 40 GALVANIZED PIPE-10 FT. HT. A.G.
F. 12"X12" CONCRETE BASE, MIN. 24" DEEP.
G. PIPE ELBOW.
H. FINISH GRADE
I. PIPE TO BE SEALED AFTER CABLE IS RUN, USE 4 MIL. PLASTIC AND TAPED NIPPLE AND THE CABLE WITH HIGH GRADE 3M WEATHER PROOF PLASTIC TAPE.
J. NIPPLE. GALVANIZED PIPE IN CONCRETE FOOTING TO BE WRAPPED WITH WEATHER PROOF TAPE TO PROTECT FROM CORROSION.
K. 6" THICK, 3/8" DIAMETER WASHED PEA GRAVEL.

6 RAIN BIRD RAIN SENSOR BEX POLE

SCALE: NTS

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PHASE:	IRRIGATION DETAILS	
60%		
SHEET #:	DATE:	SHEET CODE:
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LANDSCAPE GENERAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL VISIT AND FAMILIARIZE THEMSELVES WITH THE PROJECT SITE PRIOR TO SUBMITTING THEIR BID.
2. CONTRACTOR SHALL BE FAMILIAR WITH PLANS, DETAILS AND SPECIFICATIONS AS THEY PERTAIN TO THE SITE, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IF ANY ITEMS CONTAINED WITHIN THE SCOPE OF WORK DEFINED HEREIN, ARE IN CONFLICT WITH THE PROPOSED CONTRACT.
3. EXISTING UTILITY LINES ARE TO BE BLUE STAKED PRIOR TO EXCAVATION, CHECK AND FIELD VERIFY ALL SITE CONDITIONS, UTILITIES AND SERVICES PRIOR TO EXCAVATION. CONSTRUCTION WORK IN CLOSE PROXIMITY TO UNDERGROUND UTILITIES SHALL BE COORDINATED WITH APPROPRIATE AGENCY.
4. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH OWNER, ALL AFFECTED UTILITY COMPANIES, AND ALL OTHER ENTITIES HAVING JURISDICTION OVER THE PROJECT.
5. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES PRIOR TO COMMENCING WITH THE WORK. ANY DISCREPANCY NOTED SHALL BE REPORTED IMMEDIATELY TO THE PROJECT MANAGER. FAILURE OF THE CONTRACTOR TO REPORT ANY FIELD AND PLAN DISCREPANCIES SHALL MAKE THE CONTRACTOR RESPONSIBLE FOR WORK THAT IS PERFORMED.
6. VIBRATORY ROLLERS SHALL NOT BE PERMITTED ON ANY PHASE OF THIS PROJECT, UNLESS APPROVED IN WRITING BY THE CITY ENGINEER.
7. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO, OSHA REQUIREMENTS.
8. WARNING! BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITIES LINES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
9. CONTRACTOR SHALL WATER CONSTRUCTION SITE AREA A MINIMUM OF TWICE A DAY TO DUST CONTROL, ONCE IN THE MORNING AND ONCE IN THE AFTERNOON. THIS SHALL ALSO BE DONE ON WEEKENDS AND HOLIDAYS.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGE RESULTING FROM CONTRACTOR WORK SHALL BE RESTORED AT NO COST TO OWNER.
11. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATION DURING CONSTRUCTION ACTIVITY.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ENVIRONMENTAL FINES RESULTING FROM THEIR WORK AND HOLD THE OWNER HARMLESS IN SUCH CASES.
13. CONTRACTOR SHALL SECURE THE SITE DURING CONSTRUCTION TO PROTECT THE AREA FROM VANDALISM AND ILLEGAL TRESPASSING. CONTRACTOR SHALL SECURE THE SITE AT THEIR OWN COST. SITE PROTECTION MEASURES SHALL BE SUBMITTED TO THE PARKS AND RECREATION DEPT. FOR APPROVAL.
14. ALL EXISTING UTILITIES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE THROUGHOUT CONSTRUCTION EXCEPT AS NOTED IN THE DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES (INCLUDING SERVICE CONNECTIONS) FROM DAMAGE AS A RESULT OF CONSTRUCTION ACTIVITIES.
15. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO VERIFY LOCATION OF EXISTING UTILITIES & CONTRACTOR SHALL CALL THE RESPECTIVE "1-CALL" NUMBER FOR SUCH UTILITIES.
16. CONTRACTOR SHALL INSURE THE FOLLOWING: ALL ACCESSIBLE ROUTES SHALL NOT EXCEED A RUNNING SLOPE GREATER THEN 1: 20 (5%). NO-WHERE SHALL THE CROSS SLOPE OF AN ACCESSIBLE ROUTE EXCEED 1: 50 (2%). MAXIMUM SLOPE OF ADJOINING GUTTERS, ROAD SURFACE IMMEDIATELY ADJACENT TO THE CURB RAMP, OR ACCESSIBLE ROUTE SHALL NOT EXCEED 1: 20 (5%). MAXIMUM RUNNING SLOPE OF ANY CURB RAMP SHALL NOT EXCEED 1:12 (8.33%) SLOPE. ALL ACCESSIBLE PATHS SHALL COMPLY WITH TAS AND ADAAG.

PLANTING NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREVENT PLANTS FROM FALLING OR BEING BLOWN OVER AND TO STRAIGHTEN OR REPLANT ALL PLANTS WHICH ARE DAMAGED DUE TO WIND. PLANTS BLOWN OVER BY HIGH WINDS SHALL NOT BE A CAUSE FOR ADDITIONAL EXPENSE TO THE OWNER, BUT SHALL BE THE FINANCIAL RESPONSIBILITY OF CONTRACTOR.
2. TOPSOIL MATERIAL FOR PLANTING SHALL BE FREE FROM HARD CLODS, STIFF CLAY, HARD PAN, STONES LARGER THAN 1" IN DIAMETER, NOXIOUS WEEDS AND PLANTS, SOD, PARTIALLY DISINTEGRATED DEBRIS, INSECTS, PLANTS OR SEEDS THAT WOULD BE TOXIC, HARMFUL TO GROWTH, OR ANY OTHER UNDESIRABLE MATERIAL.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF PLANT MATERIAL QUANTITIES.
4. IN THE EVENT OF VARIATION BETWEEN QUANTITIES SHOWN ON THE PLANT LIST AND THE PLANS, THE PLANS SHALL CONTROL. IMPROPER PLANT COUNT MADE BY THE LANDSCAPE ARCHITECT SHALL BE NO CAUSE FOR ADDITIONAL COSTS TO THE OWNER.
5. THE CONTRACTOR SHALL MEET BOTH THE CONTAINER SIZE AND CALIPER SIZE, AS WELL AS HEIGHT AND SPREAD SPECIFICATIONS SPECIFIED.
6. EXCAVATE TWO TIMES GREATER THAN THE ROOT BALL-DIAMETER OF THE SHRUB, TWO TIMES GREATER THAN THE ROOT BALL FOR TREES. SCARIFY BOTTOM OF PLANTING PIT BEFORE PLACING.
7. PLANT PLACEMENT OF PLANT SHALL BE PERPENDICULAR TO GROUND.
8. CONTRACTOR WILL NOT PLANT MATERIAL SHOWN ON PLANS WHEN IT IS EVIDENT THAT FIELD CONDITIONS HAVE CHANGED SINCE PLANS WERE DRAWN. ANY CHANGES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT BEFORE ANY PLANTING IS DONE IN THE AREA.
9. PLANT SUBSTITUTIONS MAY BE PERMITTED, REQUEST SUBSTITUTION IN WRITING GIVING REASONS FOR SUCH SUBSTITUTIONS.
10. TREAT ALL PLANTING AREAS WITH AN APPLICATION OF PRE-EMERGENT HERBICIDE. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR APPLICATION (SUBMIT MAKE AND MODEL FOR APPROVAL).
11. REMOVE ALL WIRE, STRING, WIRE BASKETS, BURLAP, CONTAINERS, ETC., FROM THE ROOTBALL OF PLANTS BEFORE BACKFILLING THE PLANTING HOLE.
12. WARRANTY FOR THE PLANTING MATERIAL SHALL BE ONE YEAR FROM THE DATE OF ACCEPTANCE. (TREES AND SHRUBS).

IRRIGATION NOTES

1. IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING FULL COVERAGE IN ALL AREAS WITH SPECIFIED EQUIPMENT. ANY DISCREPANCIES IN THE PLAN SHOULD BE BROUGHT TO THE PROJECT MANAGER'S ATTENTION DURING CONSTRUCTION.
2. ALL FITTINGS AND NECESSARY EQUIPMENT REQUIRED TO MAKE THE IRRIGATION SYSTEM OPERATE PROPERLY AND TO COMPLY WITH LOCAL AND STATE CODES ARE INCIDENTAL TO THESE PLANS AND ARE THE CONTRACTOR'S RESPONSIBILITY.
3. CONTRACTOR WILL BE HELD LIABLE FOR GAINING ACCESS UNDER ALL PAVEMENTS.
4. SLEEVES SHOWN ON THE PLANS SHOULD BE VERIFIED FOR ACCESSIBILITY AND FEASIBILITY BEFORE BID IS MADE.
5. THE CONTRACTOR SHALL LOCATE AND VERIFY EACH WATER TAP TO WHICH THE IRRIGATION SYSTEM WILL CONNECT. ALL EQUIPMENT AND INSTALLATION METHODS SHALL COMPLY WITH THE STANDARDS OF THE CITY OF ALAMOGORDO AND THE SPECIFICATIONS.
6. CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS AND VALVES REQUIRED FOR THE FULL IMPLEMENTATION OF THE SYSTEM.
7. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO INITIATING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION IN SERVICE CAUSED BY HIS EXCAVATIONS AND/OR WORK.
8. ALL REMOTE CONTROL VALVE WIRES NEED TO BE LABELED AT VALVE WITH WEATHER (WATER) PROOF LABELS AND AT CONTROLLER WITH CORRESPONDING LABEL. (LETTER AND/OR NUMBER TAGS IN SEQUENTIAL ORDER SHALL BE PROVIDED).
9. SPLICING OF REMOTE CONTROL VALVE WIRE IS NOT ALLOWED BETWEEN CONTROLLER & VALVE BOX. FOR WIRE MUST BE CONTINUOUS FROM CONTROLLER TO REMOTE CONTROL VALVE WITHOUT SPLICING.
10. CONTRACTOR SHALL PROVIDE SLEEVES FOR NEW IRRIGATION LINES CROSSING UNDER CONCRETE SIDEWALKS. SLEEVES SHALL BE 2 TIMES THE PIPE SIZE EXTENDED 24" BEYOND EDGE OF SURFACE, BE WRAPPED WITH MINIMUM 4 MIL PLASTIC AND TAPED WITH 3M BRAND HEAVY DUTY PLASTIC.

LIGHTING NOTES

1. CONTRACTOR TO COORDINATE PROGRAMMING OF LANDSCAPE LIGHTING TIMER WITH OWNER. SET TO TURN ON AT DUSK AND TURN OFF AT 1AM, UNLESS OTHERWISE INSTRUCTED BY OWNER.
2. LIGHTING CONTROLLER / TRANSFORMER SHALL NOT BE HARDWIRED. CONTRACTOR TO PROVIDE STANDARD ELECTRICAL OUTLET FOR TRANSFORMER CONNECTION.
3. WIRE TO BE 12 GAUGE, 2 STRAND WIRE.
4. CONTRACTOR TO CONFIRM OPERATING VOLTAGE OF FINAL LIGHT FIXTURE ON CIRCUIT. OUTPUT VOLTAGE TO BE A MINIMUM OF 11-15V ON FINAL FIXTURE, IF OPERATING VOLTAGE IS LESS THAN 11V, CONTRACTOR TO CONFIRM WITH LANDSCAPE ARCHITECT ON FINAL SOLUTION.
5. TREE UP-LIGHTS TO BE LOCATED 3' AWAY FROM THE BASE OF TRUNK. LANDSCAPE PLAN IS PURELY DIAGRAMMATIC AND SHOULD NOT BE USED AS A BASIS OF MEASUREMENT.
6. WIRE TO BE BURIED A MINIMUM OF 6" DEPTH BELOW TOP OF GRADE. FOR WIRE UNDER HARDSCAPE, A 1" PVC CONDUIT SHALL BE PROVIDED A MINIMUM OF 12" DEPTH FROM BOTTOM OF HARDSCAPE.
7. PROVIDE WIRE IN PVC CONDUIT FOR ANY PORTION OF WIRE GOING UP WALLS.
8. PROVIDE WATERPROOF CONNECTIONS FOR ALL SPLICES.

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PHASE:	LANDSCAPE GENERAL NOTES	
60%		
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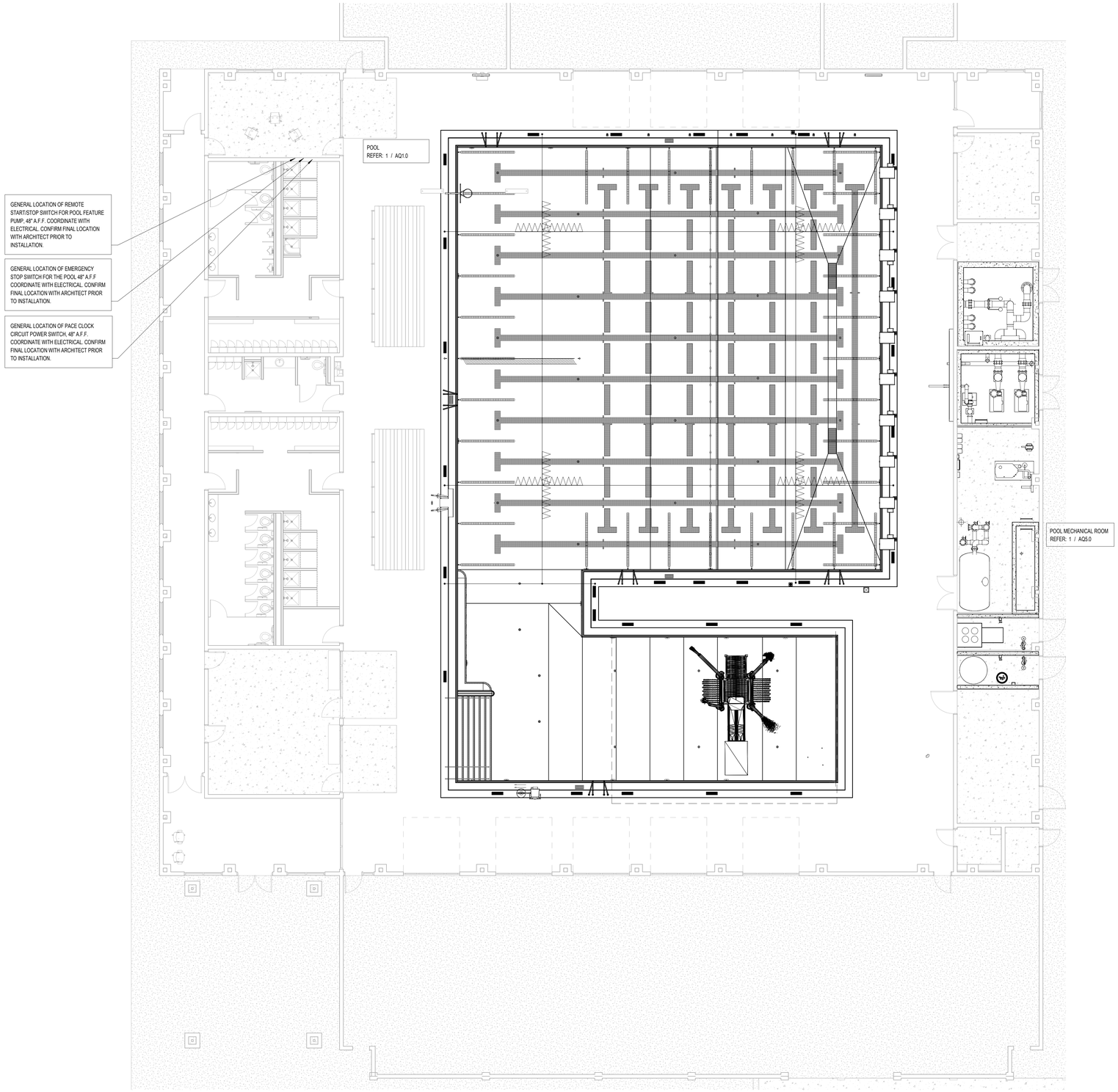

1 POOL REFERENCE PLAN
1/8" = 1'-0"

DESIGN DATA

	UNITS	POOL
LENGTH	FT.	VARIES
WIDTH	FT.	VARIES
WATER SURFACE AREA	SQ. FT	7,557
PERIMETER	FT.	465
VOLUME	GALLONS	271,680
RECIRCULATION SYSTEM		
POOL TURNOVER RATE	HOURS	3.77
RECIRCULATION RATE	GPM	1,200
SURGE CAPACITY	GALLONS	7,795
SEWER CAPACITY	GPM	REFER TO PLUMBING
BATHER LOAD	PERSONS	406

GENERAL POOL NOTES

1. DENOTES WATER DEPTH FROM WATER LEVEL.
2. POOL FINISH SHALL BE A PROPRIETARY AGGREGATE PLASTER WITH A 6" CERAMIC TILE BAND AND A 1'-4" PERIMETER TILE BAND WITH TILE DECK MARKINGS.
3. ALL POOL FLOOR AREAS 18" AND SHALLOWER AND ALL STAIR TREADS SHALL HAVE A SLIP RESISTANT FINISH.
4. TYPICAL POOL DIMENSIONS SHOWN ARE FROM THE INSIDE FINISHED POOL WALLS & FLOOR.
5. REFER TO POOL STRUCTURAL DRAWINGS BY POOL CONTRACTOR FOR ALL DIMENSIONS RELATING TO THE THICKNESS OF THE POOL SHELL AND CONCRETE CURING METHODS. REFER TO DEFERRED APPROVAL NOTICE.
6. THE JUNCTION BETWEEN THE POOL WALL AND THE FLOOR SHALL BE COVED WITH A MAXIMUM 6" RADIUS.
7. DEPTH MARKERS AND WARNING SIGNS ARE SHOWN IN APPROXIMATE LOCATIONS. DEPTH MARKERS AND WARNING SIGNS SHALL NOT EXCEED 25'-0" SPACING APART FROM EACH OTHER AND SHALL BE PLACED AT EVEN FOOT INTERVALS PER LOCAL CODE.
8. ALL PROPRIETARY NAMES MENTIONED ARE TO DESIGNATE PERFORMANCE STANDARDS. EQUIVALENT PRODUCTS SHALL BE SUBMITTED FOR APPROVAL.
9. SLIP RESISTANT DECK FINISH REQUIRED. REFER TO ARCHITECT.
10. REFER TO PLUMBING FOR DECK DRAINS AND HOSE BIBBS.
11. ALL POOL DECK SURFACE WATER SHALL DRAIN AWAY FROM THE POOL.
12. REFER TO ELECTRICAL FOR GFCI OUTLETS IN NATATORIUM.
13. ELECTRICAL INSPECTOR SHALL APPROVE INSTALLATION OF BONDING GRID FOR POOL REINFORCING AND ALL POOL EMBEDS PRIOR TO PLACEMENT OF CONCRETE.
14. NO GROUND WATER SHOULD BE ALLOWED TO RISE ABOVE ANY PORTION OF THE POOL BOTTOM DURING CONSTRUCTION.
15. COMPETITION POOL HAS BEEN DESIGNED TO BE IN COMPLIANCE WITH THE RULES AND REGULATIONS OF USA SWIMMING (USA-S) & NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS (NFHS).
16. REFER TO SWIMMING POOL SPECIFICATIONS FOR COMPETITION RACE COURSE TOLERANCES.
17. TIMING SYSTEM SHOWN FOR REFERENCE ONLY. REFER ARCHITECTURAL AND ELECTRICAL DRAWINGS.
18. ALL METALLIC PORTIONS OF THE PLAY FEATURE(S) SHALL BE EPOXY COATED STAINLESS STEEL.
19. ALL POOL REINFORCING STEEL, METAL FITTINGS, EQUIPMENT WITHIN 5'-0" OF POOL EDGE AND ANY METAL PARTS OF POOL MECHANICAL EQUIPMENT IN CONTACT WITH POOL RECIRCULATION SYSTEM SHALL BE BONDED PER ARTICLE 680 OF THE NATIONAL ELECTRICAL CODE. REFER: - / —
20. IT IS RECOMMENDED THAT ZONE EVALUATIONS ACCORDING TO THE AMERICAN RED CROSS OR A SIMILAR APPLICABLE LIFEGUARD AGENCY ARE CONDUCTED PRIOR TO OPERATING THE FACILITY AND REGULARLY ACCORDING TO AGENCY GUIDELINES. ZONE EVALUATIONS ARE NECESSARY TO CONFIRM APPROPRIATE LIFEGUARD PLACEMENT AND ZONE COVERAGE.
21. CONTRACTOR TO PROVIDE CHEMICAL QUANTITIES PER CONTRACTOR SUPPLIED POOL CHEMICAL SCHEDULE AFTER INITIAL WATER BALANCE IS REACHED PRIOR TO OWNER TURNOVER.
22. THE POOL, SURGE TANK, AND GUTTER SYSTEM MUST BE TESTED FOR WATER TIGHTNESS IN ACCORDANCE TO THE HYDROSTATIC TIGHTNESS TESTING OF AN OPEN CONCRETE CONTAINMENT STRUCTURE AS REQUIRED BY THE AMERICAN CONCRETE INSTITUTE (ACI) 350.1-10 SECTION 2. REFER TO SPECIFICATIONS. REFER: 7 / AQ5.4

CONTRACTOR SUPPLIED POOL CHEMICALS

DESCRIPTION	AMOUNT
SODIUM HYPOCHLORITE	FULL BULK TANK(S): 500 GAL
MURIATIC ACID	FULL CARBOY(S) + 30 GAL
CO2	FULL BULK TANK(S): 750 LBS
SODIUM BICARBONATE	200 LBS
CALCIUM CARBONATE	100 LBS
SODIUM THIOSULFATE	50 LBS

DRAWING INDEX

SHEET	DESCRIPTION
AQ0.0	POOL REFERENCE PLAN
AQ1.0	POOL PLAN
AQ1.1	POOL PLAN-CROSS COURSE LAYOUT
AQ1.2	POOL SECTIONS
AQ1.3	POOL DETAILS
AQ1.4	POOL DETAILS
AQ1.5	POOL DETAILS
AQ2.0	TIMING SYSTEM PLAN
AQ2.1	TIMING SYSTEM SECTIONS
AQ3.0	STAKING PLAN
AQ4.0	COMPOSITE PIPING PLAN
AQ4.1	POOL SUCTION PIPING PLAN
AQ4.2	POOL RETURN PIPING PLAN
AQ4.3	PIPING DETAILS
AQ5.0	POOL MECHANICAL ROOM PLAN & SECTIONS
AQ5.1	POOL SURGE TANK PLAN & SECTIONS
AQ6.0	POOL SYSTEMS SCHEMATIC

MAHC NOTES

1. THE PROPOSED AQUATIC FACILITY AND ALL EQUIPMENT MUST BE CONSTRUCTED AND INSTALLED IN CONFORMITY WITH THE APPROVED PLANS AND SPECIFICATIONS OR APPROVED AMENDMENTS.
2. NO SUBSTANTIAL ALTERATION, CHANGES, ADDITIONS, OR EQUIPMENT NOT SPECIFIED IN THE APPROVED PLANS OR ALLOWED IN THE CODE CAN BE MADE OR ADDED UNTIL THE PLANS FOR SUCH SUBSTANTIAL ALTERATIONS, CHANGES, ADDITIONS, OR EQUIPMENT ARE SUBMITTED TO AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.

DEFERRED APPROVAL NOTICE

1. INSTALLATION OF THE PLAY STRUCTURE AND ASSOCIATED FEATURE FOOTINGS MUST NOT COMMENCE UNTIL CONTRACTOR PROVIDES DETAILED DRAWINGS, SPECIFICATIONS, BEARING THE SEAL, SIGNATURE, AND DATE OF A LICENSED PROFESSIONAL ENGINEER TO BE REVIEWED AND APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY OR THE DEPARTMENT HAVING JURISDICTION. CONTRACTOR MUST BE RESPONSIBLE FOR PERMITTING PROCESS AND ALL COSTS ASSOCIATED WITH OBTAINING PERMITTING APPROVAL.
2. CONTRACTOR MUST PROVIDE DETAILED DRAWING AND SPECIFICATIONS FOR THE STRUCTURAL DESIGN OF THE POOL SHELL BEARING THE SEAL, SIGNATURE, AND DATE OF A LICENSED PROFESSIONAL ENGINEER TO BE REVIEWED AND APPROVED BY THE DEPARTMENT OF BUILDING AND SAFETY OR THE DEPARTMENT HAVING JURISDICTION. DRAWINGS MUST CLEARLY IDENTIFY ALL REINFORCEMENT, CONSTRUCTION JOINTS, EMBEDDED ITEMS INCLUDING WATERSTOPS, EXCAVATION LINES AND FINISH CONCRETE ELEVATIONS, UNDER DRAINAGE REQUIREMENTS, UNDER DRAIN ROUTING, DROP OUT LOCATIONS.

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FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:		Issue Date

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: SLC
CHECKED BY: CCH
SHEET TITLE:
POOL REFERENCE PLAN
SHEET NO:
AQ0.0

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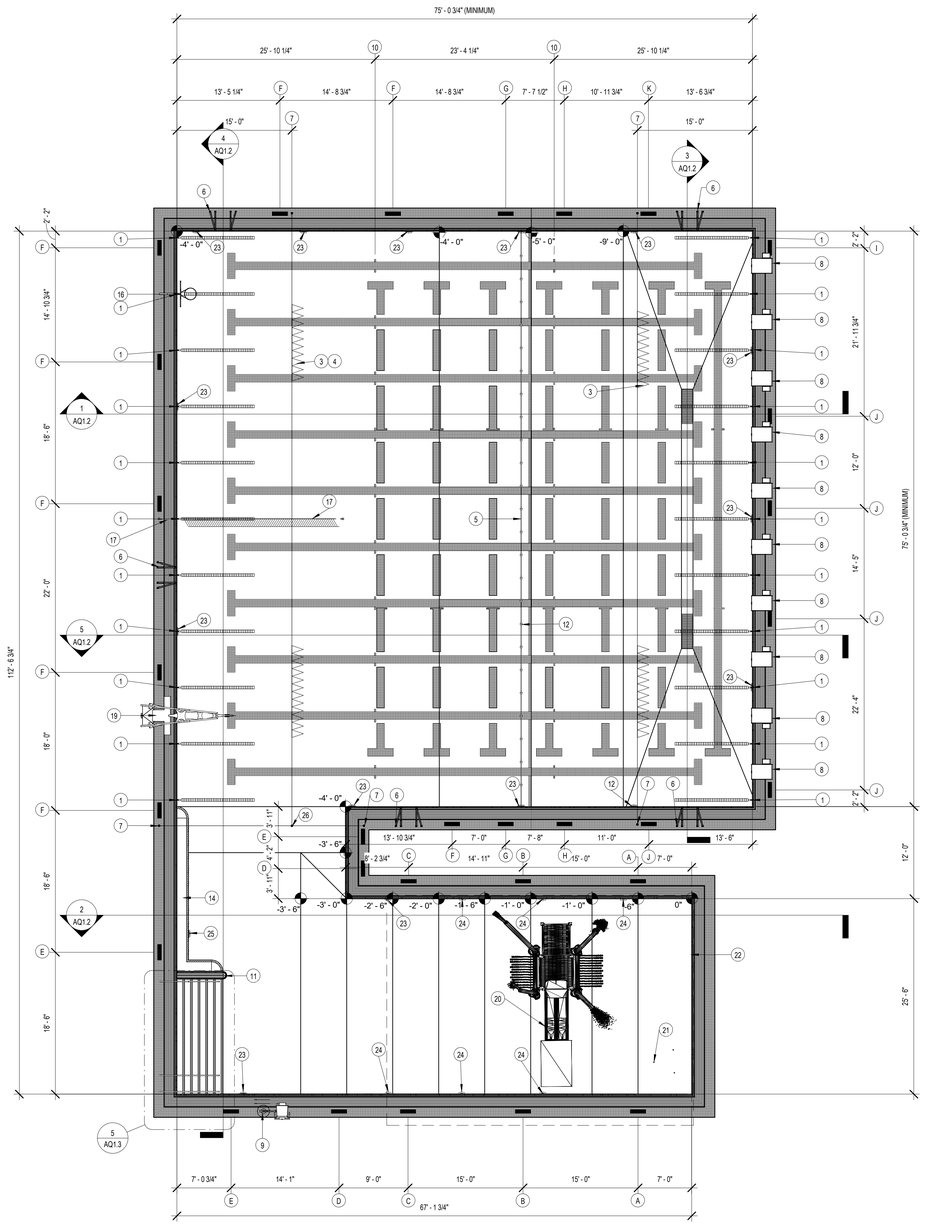

1 POOL PLAN
1/8" = 1'-0"

DEPTH AND WARNING SIGNAGE SCHEDULE

ID	SIGNAGE
A	0 FT 6 IN
B	1 FT 0 IN
C	2 FT 0 IN
D	3 FT 0 IN
E	3 FT 6 IN
F	4 FT 0 IN
G	5 FT 0 IN
H	7 FT 0 IN
J	9 FT 0 IN
K	9 FT 3 IN
Z	NO DIVING

NOTES:
1. REFER:13 / AQ1.3 FOR DETAIL

EQUIPMENT SCHEDULE

ID	ITEM
1	LANE ROPE CUP ANCHOR REFER: 2 / AQ1.3
2	SAFETY ROPE CUP ANCHOR REFER: 2 / AQ1.3
3	BACKSTROKE PENNANT
4	FALSE START ROPE ASSEMBLY
5	SAFETY ROPE
6	GRAB RAILS & RECESSED STEPS REFER: 2 / AQ1.4
7	STANCHION POST & ANCHOR REFER:12 / AQ1.3
8	DECK MOUNTED STARTING BLOCK & ANCHOR REFER: 1 / AQ1.4
9	POOL LIFT & ANCHOR REFER: 3 / AQ1.4
10	RESURFACING MARKER REFER:16 / AQ1.3
11	WING WALL REFER: 4 / AQ1.3
12	4" CONTRASTING TILE BAND COLOR BY ARCHITECT
13	WALL TARGET REFER:14 / AQ1.3
14	UNDERWATER BENCH REFER: 8 / AQ1.3
15	POOL COVE REFER: 3 / AQ1.3
16	WATER BASKETBALL GOAL REFER: 4 / AQ1.4
17	WATER VOLLEYBALL STANCHION POST & ANCHOR REFER: 5 / AQ1.4
18	TOE LEDGE REFER: 8 / AQ1.4
19	ZIPLINE FEATURE REFER: 6 / AQ1.4
20	PLAY STRUCTURE REFER: 9 / AQ1.4
21	BUBBLER REFER: 7 / AQ1.4
22	ZERO ENTRY REFER: 7 / AQ1.3
23	UNDERWATER LIGHT REFER:12 / AQ1.4
24	ZERO ENTRY UNDERWATER LIGHT REFER:11 / AQ1.4
25	UNDERWATER LIGHT @ BENCH REFER:10 / AQ1.4
26	CABLE CLAMP REFER: 1 / AQ1.5

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SHEET TITLE:

POOL PLAN

SHEET NO:
AQ1.0

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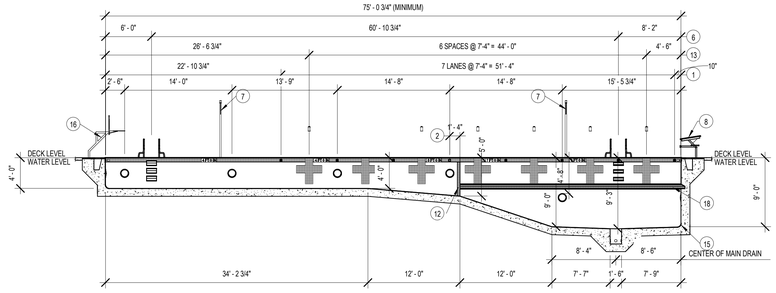
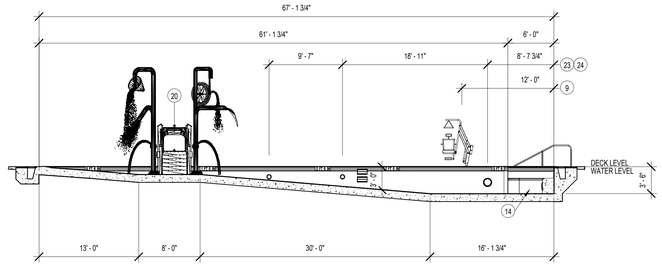
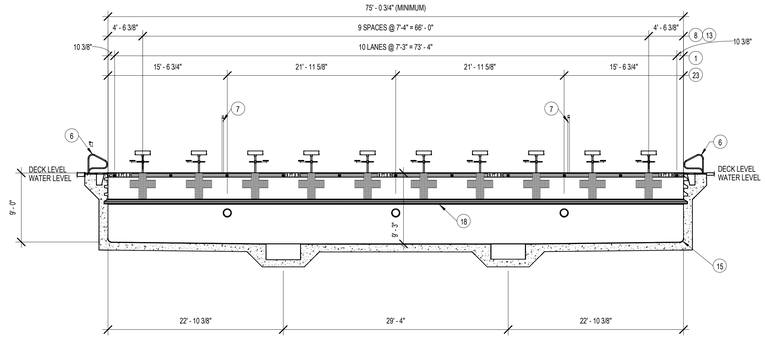


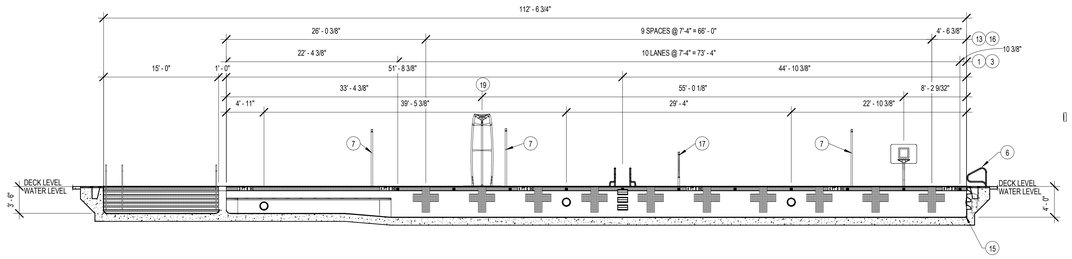
1 POOL SECTION
1/8" = 1'-0"



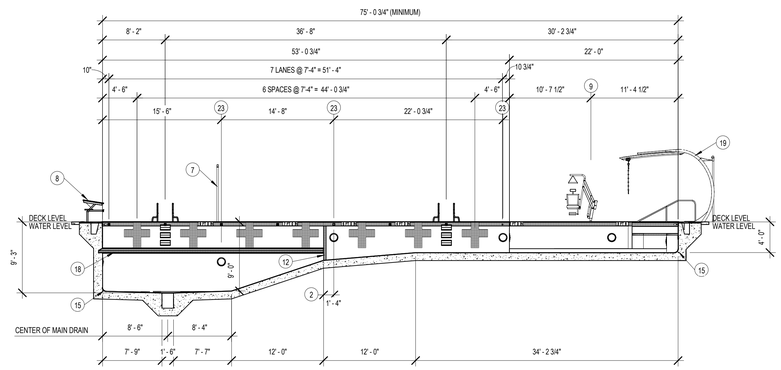
2 POOL SECTION
1/8" = 1'-0"



3 POOL SECTION
1/8" = 1'-0"



4 POOL SECTION
1/8" = 1'-0"



5 POOL SECTION
1/8" = 1'-0"

EQUIPMENT SCHEDULE

ID	ITEM
1	LANE ROPE CUP ANCHOR REFER: 2 / AQ1.3
2	SAFETY ROPE CUP ANCHOR REFER: 2 / AQ1.3
3	BACKSTROKE PENNANT
4	FALSE START ROPE ASSEMBLY
5	SAFETY ROPE
6	GRAB RAILS & RECESSED STEPS REFER: 2 / AQ1.4
7	STANCHION POST & ANCHOR REFER:12 / AQ1.3
8	DECK MOUNTED STARTING BLOCK & ANCHOR REFER: 1 / AQ1.4
9	POOL LIFT & ANCHOR REFER: 3 / AQ1.4
10	RESURFACING MARKER REFER:16 / AQ1.3
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18	TOE LEDGE REFER: 8 / AQ1.4
19	ZIPLINE FEATURE REFER: 6 / AQ1.4
20	JUNIOR-CLIMB-N-SLIDE REFER: 9 / AQ1.4
21	BUBBLER REFER: 7 / AQ1.4
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POOL SECTIONS

SHEET NO:
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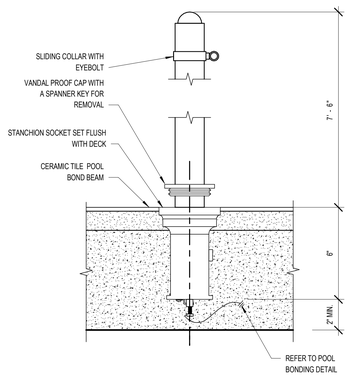
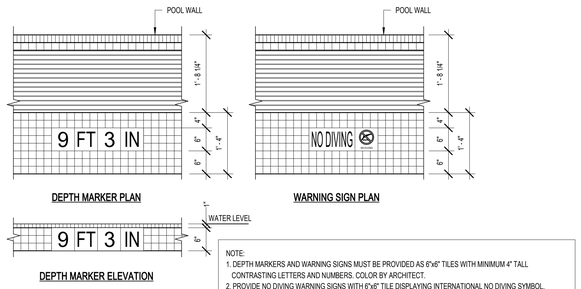
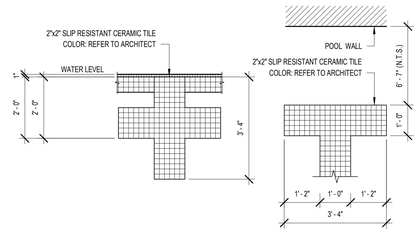


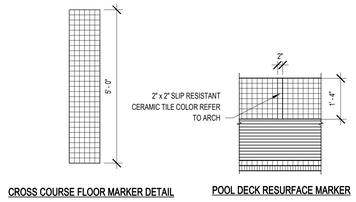
12 STANCHION POST & ANCHOR
3" = 1'-0"

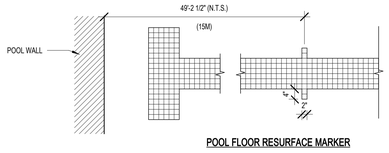


NOTE:
1. DEPTH MARKERS AND WARNING SIGNS MUST BE PROVIDED AS 6"x6" TILES WITH MINIMUM 4" TALL CONTRASTING LETTERS AND NUMBERS. COLOR BY ARCHITECT.
2. PROVIDE NO DIVING WARNING SIGNS WITH 6"x6" TILE DISPLAYING INTERNATIONAL NO DIVING SYMBOL.
3. ALL HORIZONTAL TILE INSTALLATIONS MUST HAVE A SLIP RESISTANT FINISH. ALL VERTICAL TILE INSTALLATIONS MUST HAVE A SMOOTH GLAZED FINISH.

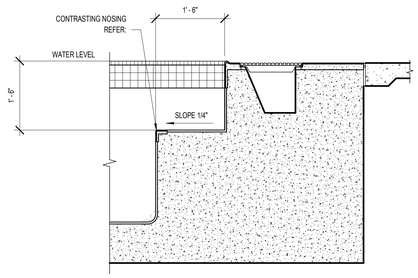
13 DEPTH MARKERS & WARNING SIGNS
3/4" = 1'-0"



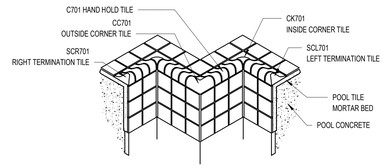




14 WALL TARGETS & FLOOR MARKERS
1/2" = 1'-0"

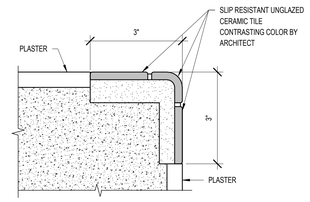


8 UNDERWATER BENCH
3/4" = 1'-0"

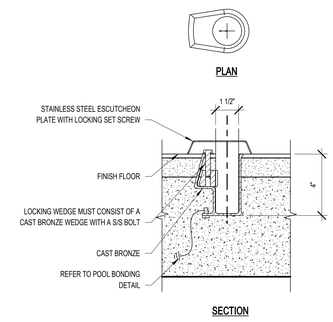


NOTE:
LOCATE PAIRS OF SCL/SCR 701 @ 5' - 0" O.C. AT PERIMETER OF WING WALL.

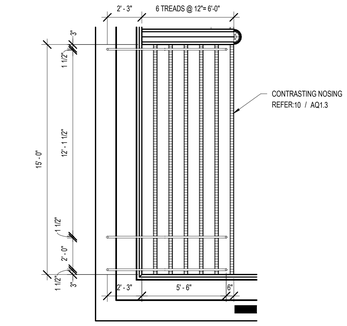
9 SCR/SCL 701 NOSING TILE
1 1/2" = 1'-0"



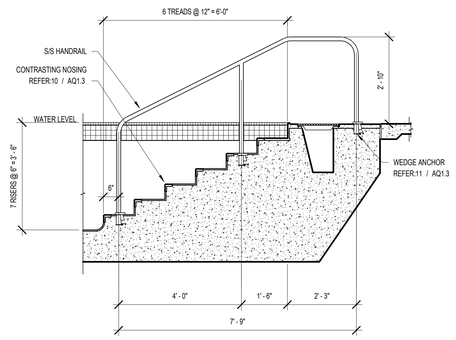
10 CONTRASTING NOSING
6" = 1'-0"



11 WEDGE ANCHOR
3" = 1'-0"

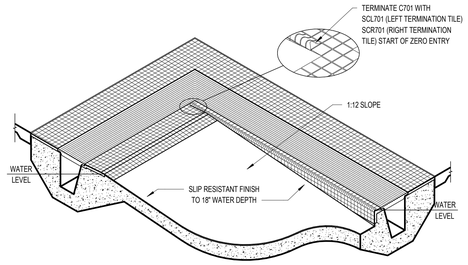


5 ENLARGED STAIR
1/4" = 1'-0"

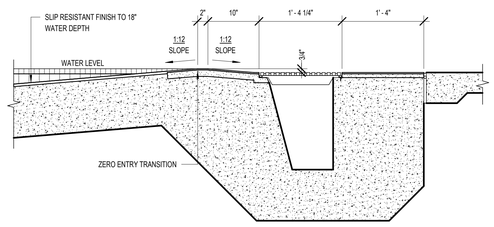


NOTE:
1. LOCATE HANDRAILS TO PROVIDE A MIN. 2 1/4" CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACE AND ALL ADJACENT STRUCTURES.
2. TILE ON TOP TREAD ONLY.

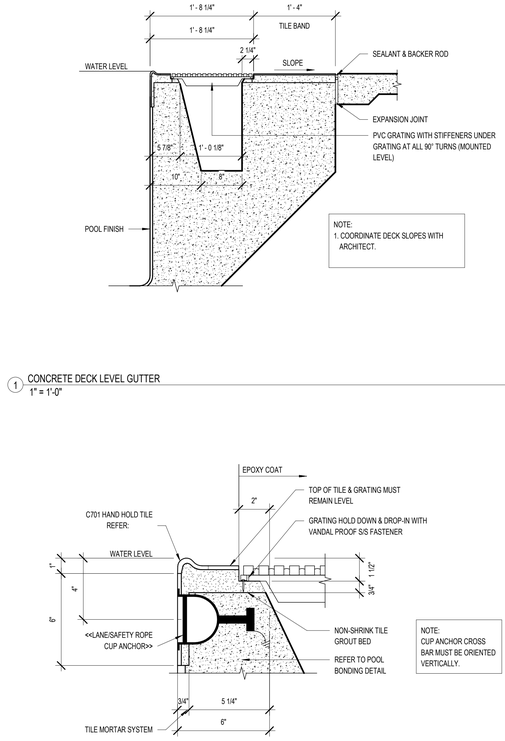
6 STAIR SECTION
1/2" = 1'-0"



7 ZERO ENTRY ISOMETRIC & SECTION
3/8" = 1'-0"



4 WING WALL SECTION
1 1/2" = 1'-0"



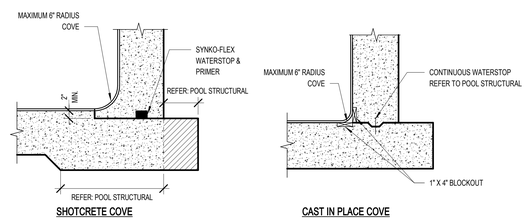
NOTE:
1. COORDINATE DECK SLOPES WITH ARCHITECT.

1 CONCRETE DECK LEVEL GUTTER
1" = 1'-0"

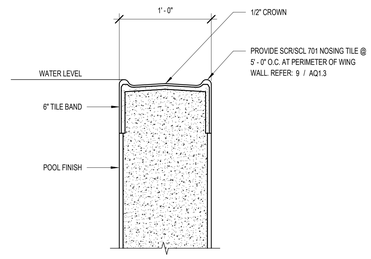
NOTE:
CUP ANCHOR CROSS BAR MUST BE ORIENTED VERTICALLY.

2 GUTTER LIP
3" = 1'-0"

NOTE:
1. ALL JUNCTIONS BETWEEN THE SWIMMING POOL WALL AND THE FLOOR MUST BE COVED.
2. POOL FLOOR MUST BE CAST IN PLACE.



3 POOL COVE
3/4" = 1'-0"



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SHEET TITLE:

POOL DETAILS

SHEET NO:
AQ1.3

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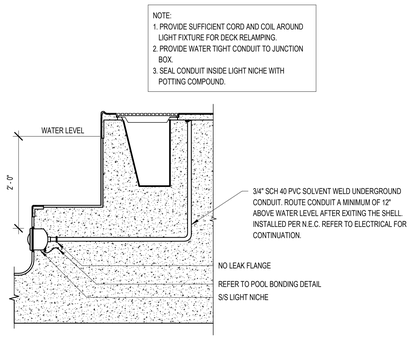
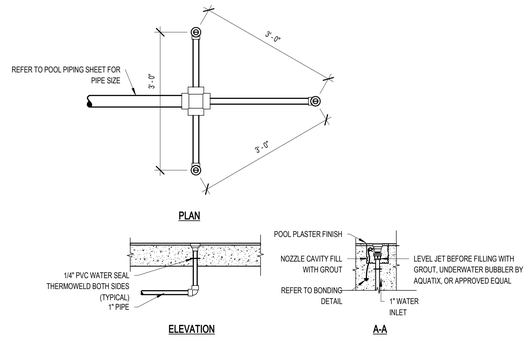
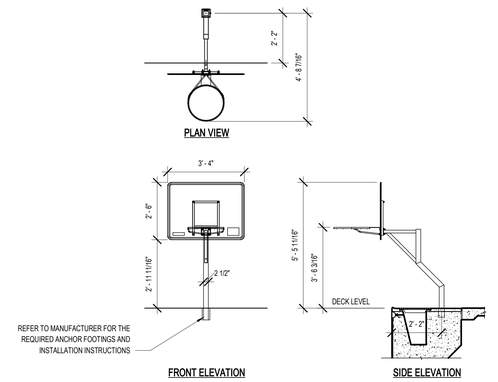


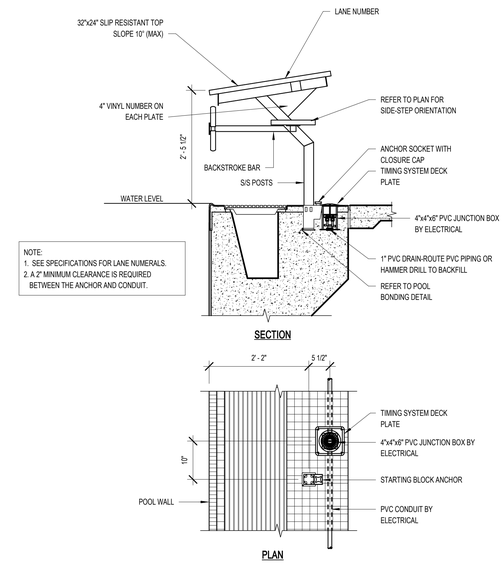
10 UNDERWATER LIGHT @ UNDERWATER BENCH
3/4" = 1'-0"



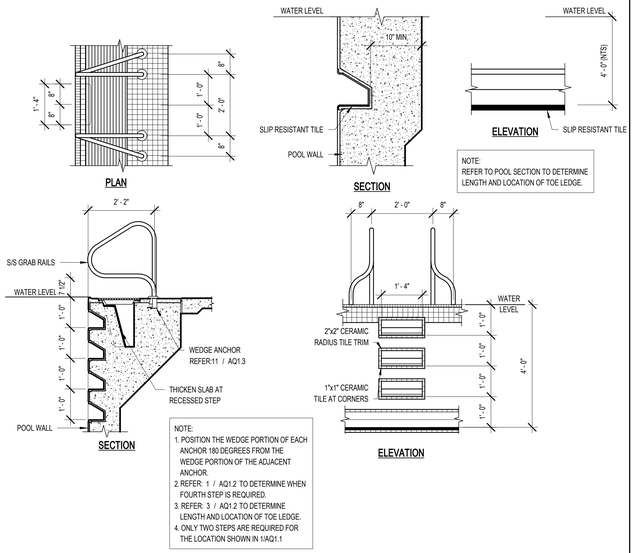
7 BUBBLER FEATURE
3/4" = 1'-0"

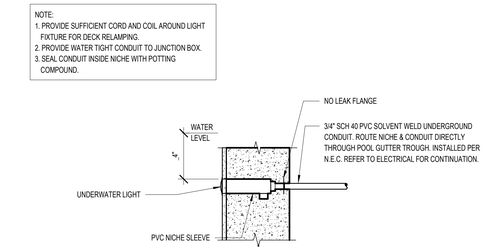


4 WATER BASKETBALL GOAL
3/8" = 1'-0"

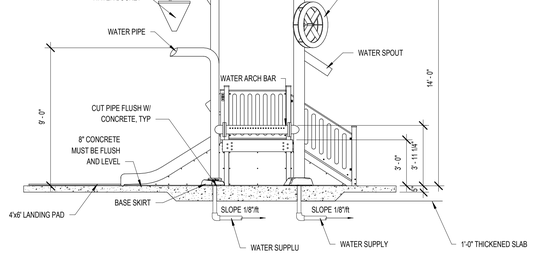


1 STARTING BLOCK
3/4" = 1'-0"

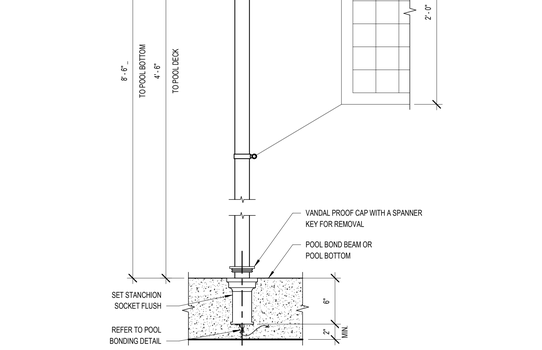




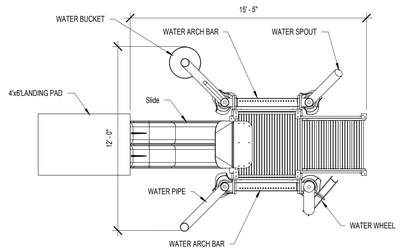
11 UNDERWATER LIGHT @ BEACH ENTRY
1 1/2" = 1'-0"

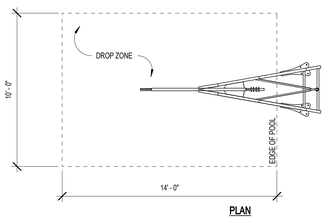


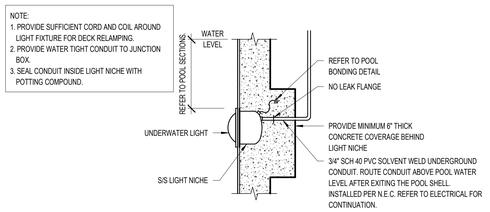
9 JUNIOR-CLIMB-N-SLIDE
1/4" = 1'-0"



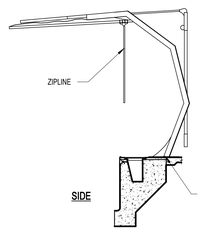
5 WATER VOLLEYBALL STANCHION POST & ANCHOR
1 1/2" = 1'-0"



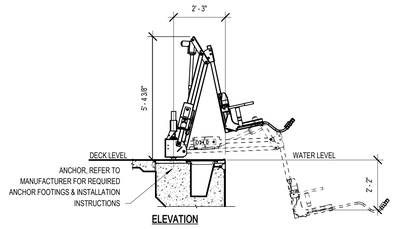


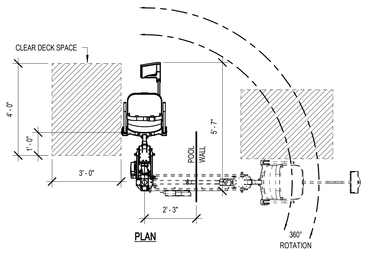


12 UNDERWATER LIGHT
3/4" = 1'-0"



6 ZIP LINE FEATURE
1/4" = 1'-0"





3 POOL LIFT
3/8" = 1'-0"

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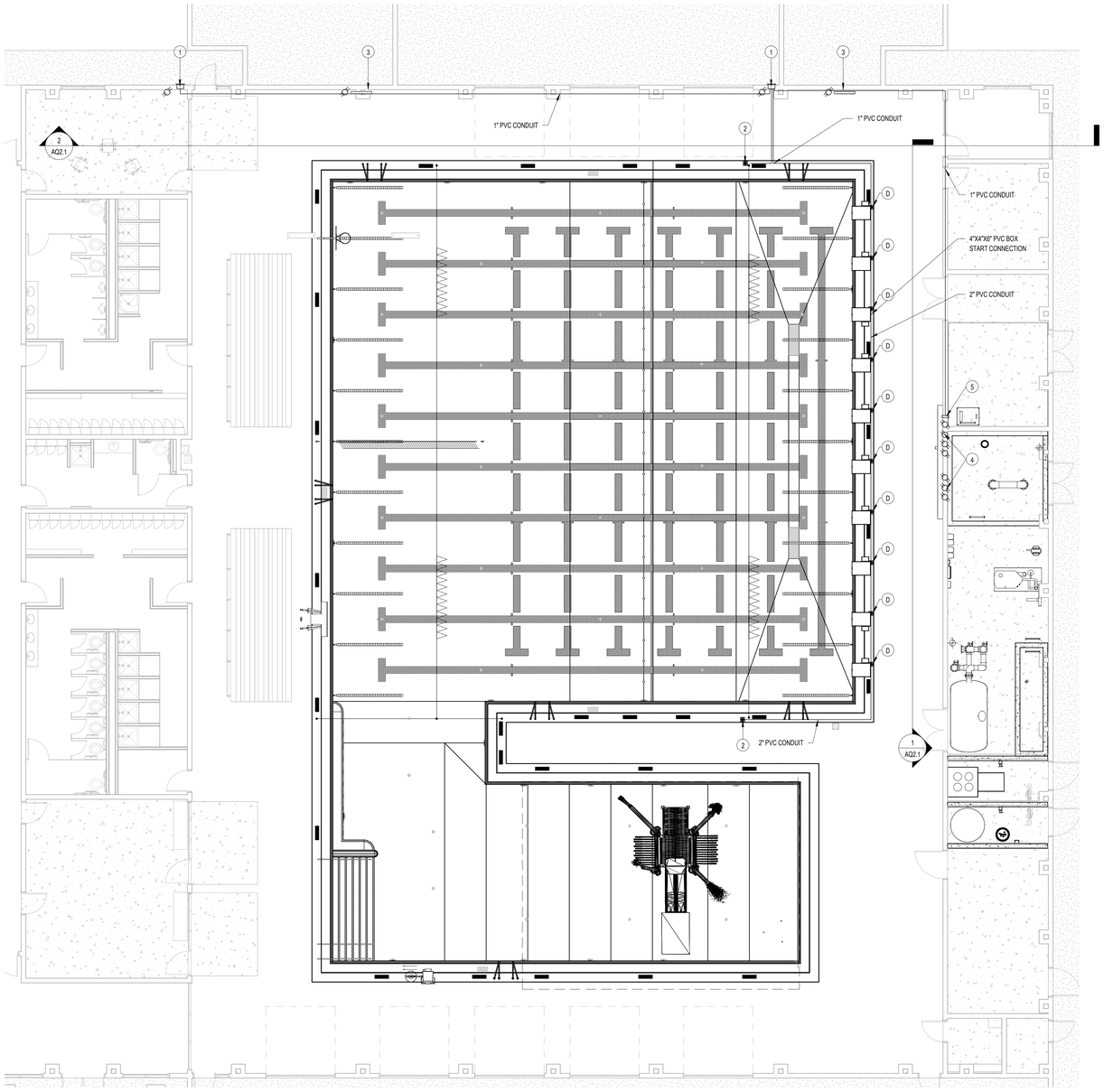
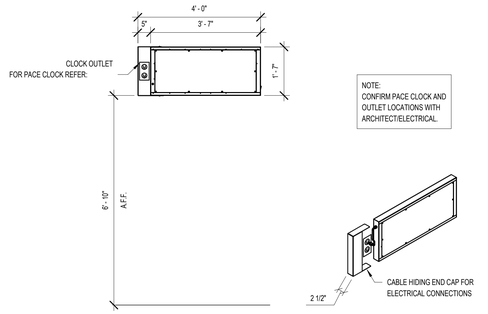


1 TIMING SYSTEMS PLAN
1/8" = 1'-0"

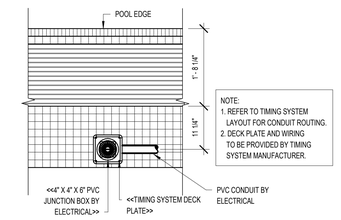
TIMING SYSTEM SCHEDULE

ID	QTY.	ITEM	DESCRIPTION
D	10	TIMING DECK PLATE REFER: 3 / AQ2.0	4"X4"X6" PVC JUNCTION BOX
1	2	WALL PLATE REFER: 4 / AQ2.0	12"X12"X6" PVC JUNCTION BOX WITH 120V QUAD OUTLET & ETHERNET CONNECTION MOUNTED AT 18" A.F.F.
2	2	START DECK PLATE REFER: 1 / AQ1.4	4"X4"X6" PVC JUNCTION BOX
3	2	PACE CLOCK REFER: 2 / AQ2.0	PACE CLOCK WITH 120 V DUPLEX OUTLET MOUNTED AT 7'-0" A.F.F.
4	1	SCOREBOARD	SCOREBOARD WITH SEVEN (7) 120 V DUPLEX OUTLETS. REFER TO ARCHITECT FOR MOUNTING HEIGHT.
5	1	SCOREBOARD DATA BOX	SINGLE GANG BOX AT HEIGHT OF SCOREBOARD
6	2	ETHERNET CONNECTION	ETHERNET CONNECTION

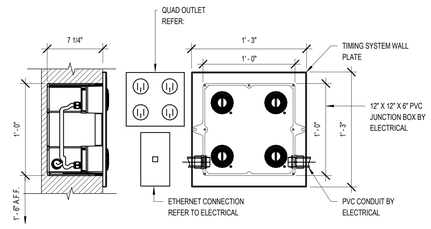
NOTES:
1. COORDINATE FINAL LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECTURAL AND ELECTRICAL DRAWINGS PRIOR TO INSTALLATION. REFERENCES TO MOUNTING HEIGHTS ARE MINIMUMS TO THE BOTTOM OF OUTLET/EQUIPMENT.
2. CONDUIT, JUNCTION BOXES, ETHERNET CONNECTIONS, AND POWER MUST BE PROVIDED BY ELECTRICAL. TIMING SYSTEM MANUFACTURER MUST PROVIDE ANY REQUIRED CABELING AND CONNECTIVITY SPECIFIC TO THEIR PRODUCT.
3. ALL JUNCTION BOXES MUST BE RECESSED INTO THE NATATORIUM WALLS AND POOL DECK. PVC CONDUIT MUST BE RUN IN THE WALLS OR IN POOL DECK. SURFACE MOUNTING IS NOT ALLOWED.
4. PVC CONDUIT MUST BE 1.5" UNLESS NOTED OTHERWISE.

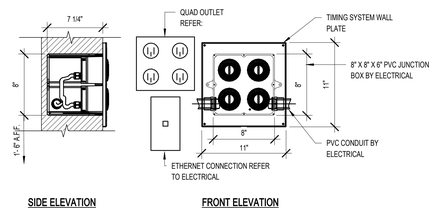


2 PACE CLOCK
1/2" = 1'-0"



3 TIMING SYSTEM DECK PLATE
3/4" = 1'-0"





4 WALL PLATE
1 1/2" = 1'-0"

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TIMING SYSTEM PLAN

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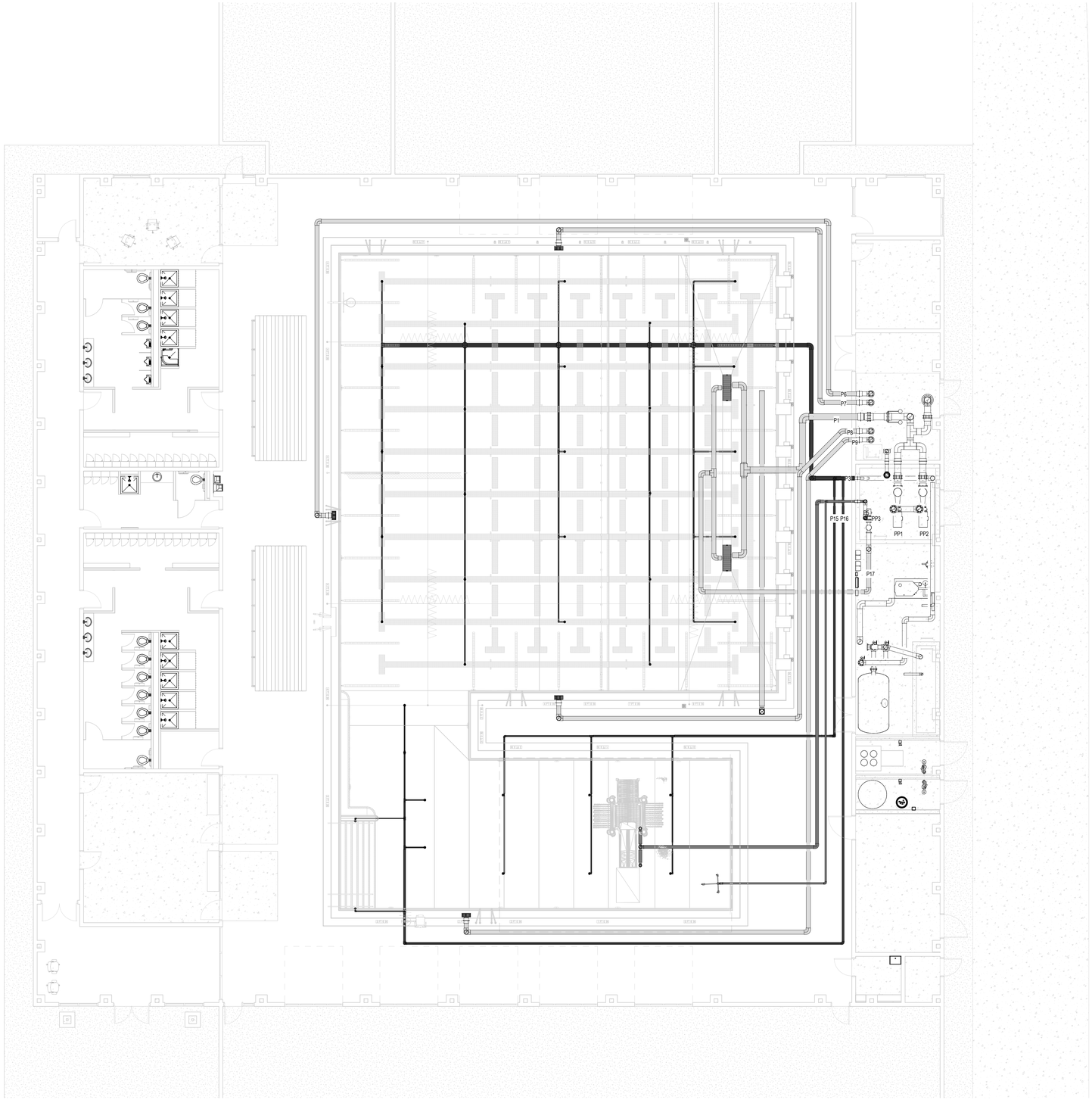

1 COMPOSITE PIPING PLAN
1/8" = 1'-0"

GENERAL PIPING NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERATIONAL PIPING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
2. PIPE SIZES INDICATED ARE NOMINAL. I.P.S.
3. UNLESS OTHERWISE NOTED, ALL OVERHEAD PIPING MUST BE TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB.
4. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
5. ALL PIPING WORK MUST BE COORDINATED WITH ALL TRADES AND SITE CONDITIONS. OFFSETS, EXPANSION LOOPS, OR TRANSITIONS IN PIPING AROUND OBSTRUCTIONS MUST BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
6. ALL PIPING INDICATED MUST BE CONSIDERED DIAGRAMMATIC.
7. ALL SWIMMING POOL PIPING ROUTED BELOW THE POOL SHELL MUST BE CONCRETE ENCASED SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED. REFER:
8. ALL DIMENSIONS INDICATED FROM THE FINISH WALL SURFACE AND DO NOT ACCOUNT FOR ANY VARIATIONS IN EITHER GRADE OR SLOPE DISTANCES.
9. ALL UNDERGROUND OR EXPOSED SWIMMING POOL PIPING MUST BE SCHEDULE 80 PVC, UNLESS OTHERWISE NOTED. REFER TO PLANS AND SPECIFICATIONS FOR ANY SPECIFIC REQUIREMENTS REGARDING PLACEMENT AND BACKFILLING OF BELOW GRADE POOL PIPE.
10. THE CHEMICAL SENSOR LINE MUST BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE FILL FUNNEL AND THE BACKWASH CATCH BASIN OR PUMP SUCTION.
11. ALL FLOOR INLETS MUST BE ADJUSTED TO ACHIEVE AN EVEN FLOW DISTRIBUTION.
12. ALL PIPE TEES MUST BE SIZED FOR LARGEST PIPE CONNECTION.
14. ALL GUTTER DROPOUT LINES MUST SLOPE 1/8" PER FOOT MINIMUM.
16. SURGE TANK VENT PIPING TO ATMOSPHERE.

PIPING LEGEND

LEGEND	QTY	ITEM	MAKE	MODEL
	2	WALL INLET REFER: 3 / AQ5.3	HAYWARD	SP1421D & SP1022S (3/4")
	35	FLOOR INLET REFER: 4 / AQ5.3	STA-RITE	8417-000 (WHITE) 8417-0200 (BLACK) BLACK INLETS MUST BE USED AT TILE INSTALLATIONS. WHITE INLETS MUST BE USED AT PLASTER INSTALLATIONS.
	1	SIGHT SUMP REFER: 1 / AQ4.3	POURALID	SQ201 PAL FROSTED
	4	GUTTER DROPOUT BOX REFER:	FIELD FABRICATED	
	2	MAIN DRAIN REFER: 6 / AQ5.3	REFER TO MAIN DRAIN SCHEDULE	
	N/A	SUCTION/GRAVITY PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC
	N/A	RETURN PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC
	N/A	FEATURE PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC

MAIN DRAIN SCHEDULE

ID	DESCRIPTION	SIZE	QTY.	DESIGN FLOW (GPM)	DESIGN VELOCITY (FPS)	MFG ALLOWABLE FLOW @ COVER (GPM)	MODEL	MANUFACTURER	NOTES
M1	POOL MAIN DRAINS	18"X54"	2	1800	0.48	2,815	DALMAX-SG-185427	DALDORADO	-

NOTES:
1. <<MAIN DRAIN SUMP AND GRATE MUST BE MANUFACTURED BY NEPTUNE BENSON, DALDORADO, AQUASTAR, PADDOCK OR APPROVED EQUAL.>>
2. <<MAXIMUM FACE VELOCITY MUST NOT EXCEED 1.5 FEET PER SECOND.>>
3. <<OPEN AREA IS BASED ON MANUFACTURER'S DATA.>>
4. <<THE INSTALLED LIFE OF THE MAIN DRAIN GRATE MUST BE A MINIMUM OF 10 YEARS.>>
5. <<THE INSTALLED LIFE OF THE MAIN DRAIN GRATE MUST BE A MINIMUM OF 5 YEARS. (AQUASTAR CHANNEL DRAINS)>>
6. <<FASTEN MAIN DRAIN GRATE TO SUMP WITH S/S TAMPER PROOF FASTENERS AT A SPACING NO GREATER THAN 24" O.C. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.>>
7. <<PROVIDE WATER BONDING FITTING IN MAIN DRAIN SUMP AT DEEPEST SECTION OF THE POOL. BASIS OF DESIGN: PERMA-CAST SWIMMING POOL PRODUCTS MODEL PB-SK-20 OR APPROVED EQUAL.>>
8. <<PROVIDE HYDROSTATIC RELIEF VALVE IN EACH MAIN DRAIN. SUMP BASIS OF DESIGN: HAYWARD MODEL SP1056 & SP1055, AQUASTAR HVC101 OR APPROVED EQUAL.>>

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COMPOSITE PIPING PLAN

SHEET NO:
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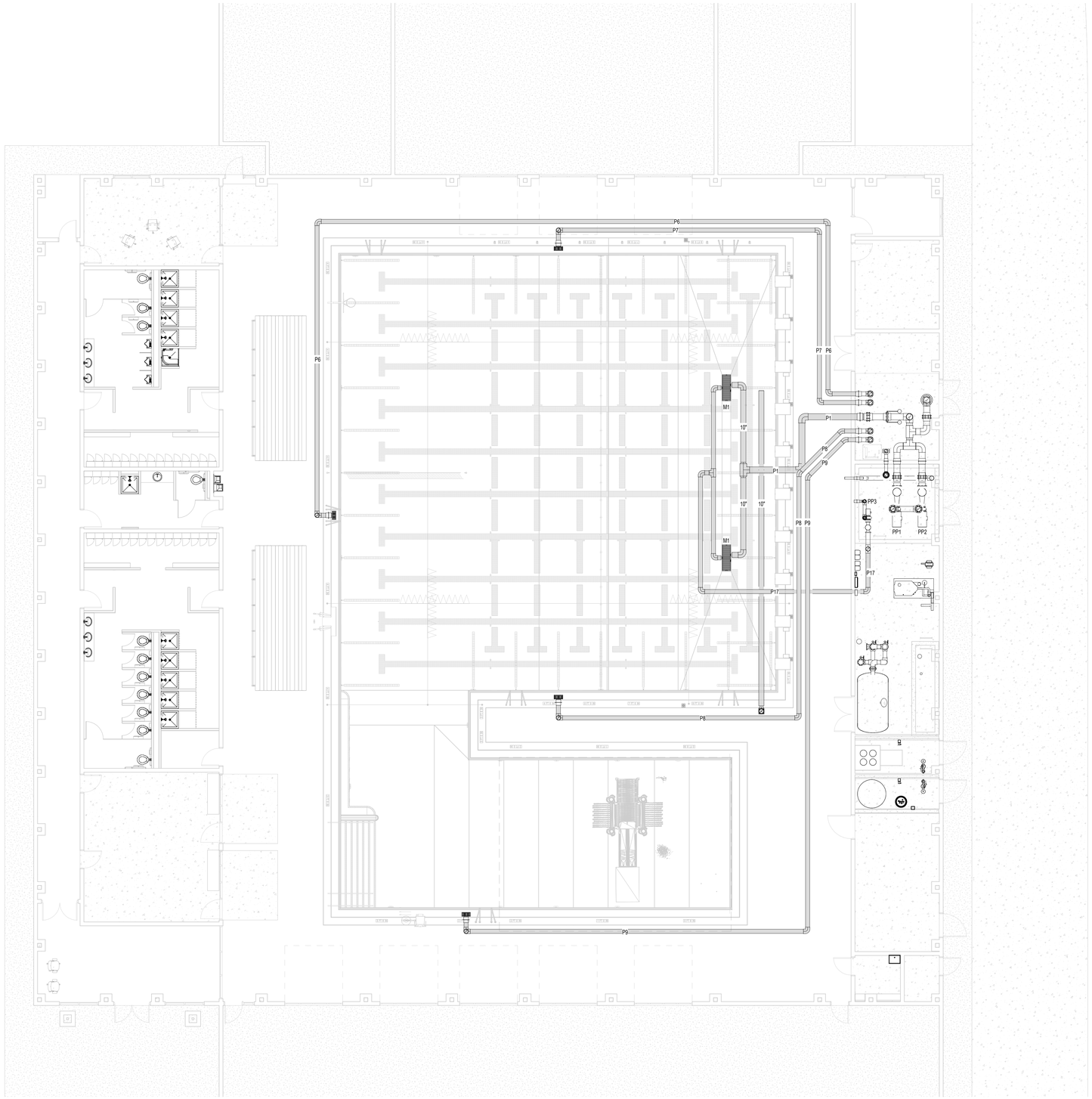

PIPING LEGEND

LEGEND	QTY	ITEM	MAKE	MODEL
	2	WALL INLET REFER:	HAYWARD	SP1421D & SP1022S (3/4")
	35	FLOOR INLET REFER:	STA-RITE	8417-000 (WHITE) 8417-0200 (BLACK) BLACK INLETS MUST BE USED AT TILE INSTALLATIONS. WHITE INLETS MUST BE USED AT PLASTER INSTALLATIONS.
	1	SIGHT SUMP REFER:	POURALID	SQ201 PAL FROSTED
	4	GUTTER DROPOUT BOX REFER:	FIELD FABRICATED	
	2	MAIN DRAIN REFER:	REFER TO MAIN DRAIN SCHEDULE	
	N/A	SUCTION/GRAVITY PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC
	N/A	RETURN PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC
	N/A	FEATURE PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC

PIPE SCHEDULE

TYPE	DIAMETER	DESCRIPTION
P1	12"	FROM M1 TO PP1 AND PP2
P2	10"	FROM PP1 AND PP2 TO F1
P3	8"	FROM F1 TO POOL INLETS
P4	8"	FROM F1 TO BACKWASH CATCH BASIN
P5	6"	FROM PP3 TO FEATURE MANIFOLD
P6	8"	FROM GUTTER DROPOUT TO SURGE TANK
P7	8"	FROM GUTTER DROPOUT TO SURGE TANK
P8	8"	FROM GUTTER DROPOUT TO SURGE TANK
P9	8"	FROM GUTTER DROPOUT TO SURGE TANK
P10	6"	FROM L1 TO SURGE TANK
P12	4"	FROM PX TO BACKWASH CATCH BASIN
P13	4"	FROM PX TO H1
P14	4"	FROM H1 TO PX
P15	6"	FROM P5 TO PLAY STRUCTURE
P16	3"	FROM P5 TO BUBBLERS
P17	8"	FROM M1 TO PP3
P18	4"	FROM PP3 TO FLOOR INLETS
P19	4"	FROM PP3 TO FLOOR INLETS

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POOL SUCTION PIPING PLAN

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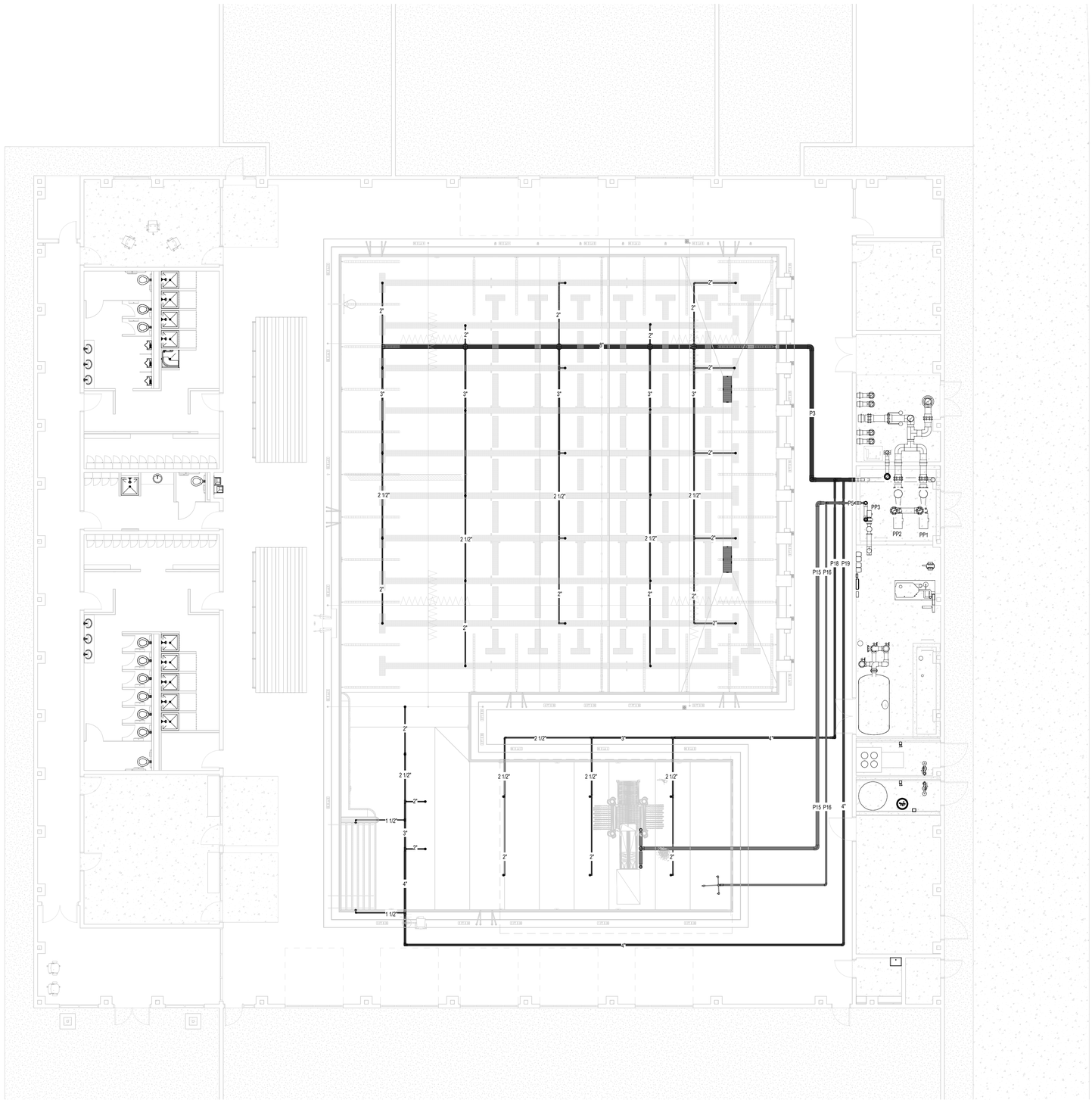

1 RETURN PIPING PLAN
1/8" = 1'-0"

PIPING LEGEND

LEGEND	QTY	ITEM	MAKE	MODEL
	2	WALL INLET REFER: 3 / AQ5.3	HAYWARD	SP1421D & SP1022S (3/4")
	35	FLOOR INLET REFER: 4 / AQ5.3	STA-RITE	8417-000 (WHITE) 8417-0200 (BLACK) BLACK INLETS MUST BE USED AT TILE INSTALLATIONS. WHITE INLETS MUST BE USED AT PLASTER INSTALLATIONS.
	1	SIGHT SUMP REFER: 1 / AQ4.3	POURALID	SQ201 PAL FROSTED
	4	GUTTER DROPOUT BOX REFER:	FIELD FABRICATED	
	2	MAIN DRAIN REFER: 6 / AQ5.3	REFER TO MAIN DRAIN SCHEDULE	
	N/A	SUCTION/GRAVITY PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC
	N/A	RETURN PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC
	N/A	FEATURE PIPING	HARVEL	SCH 40 PVC, SCH 80 PVC

PIPE SCHEDULE

TYPE	DIAMETER	DESCRIPTION
P1	12"	FROM M1 TO PP1 AND PP2
P2	10"	FROM PP1 AND PP2 TO F1
P3	8"	FROM F1 TO POOL INLETS
P4	8"	FROM F1 TO BACKWASH CATCH BASIN
P5	6"	FROM PP3 TO FEATURE MANIFOLD
P6	8"	FROM GUTTER DROPOUT TO SURGE TANK
P7	8"	FROM GUTTER DROPOUT TO SURGE TANK
P8	8"	FROM GUTTER DROPOUT TO SURGE TANK
P9	8"	FROM GUTTER DROPOUT TO SURGE TANK
P10	6"	FROM L1 TO SURGE TANK
P12	4"	FROM PX TO BACKWASH CATCH BASIN
P13	4"	FROM PX TO H1
P14	4"	FROM H1 TO PX
P15	6"	FROM P5 TO PLAY STRUCTURE
P16	3"	FROM P5 TO BUBBLERS
P17	8"	FROM M1 TO PP3
P18	4"	FROM PP3 TO FLOOR INLETS
P19	4"	FROM PP3 TO FLOOR INLETS

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POOL RETURN PIPING PLAN

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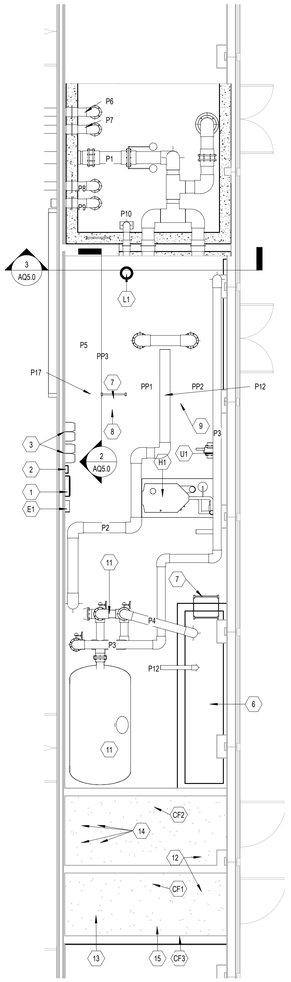


1 POOL MECHANICAL ROOM PLAN
3/16" = 1'-0"

FILL SCHEDULE

ID	FRESH WATER SUPPLY GPM (MIN)	FILL FUNNEL SIZE	REDUCER SIZE	SPLASH COLLAR SIZE	FILL LINE SIZE TO POOL	DESIGN FILL TIME (HOURS)
L1	94	10"	10"x6"	8"	6"	48

NOTE:
REFER:12 / AQ5.2

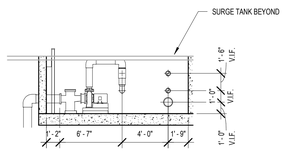
UV TREATMENT SYSTEMS SCHEDULE

ID	MODEL NUMBER	CALCULATED 60 MJ/CM2 (GPM)	LAMPS	POWER (KW)	VOLTAGE (V) WITH BREAKER SIZE (50 OR 60 HZ)
U1	WF-255-8-N	1,386	2 @ 2.5KW	5.0	208 V (1ϕ)-32A

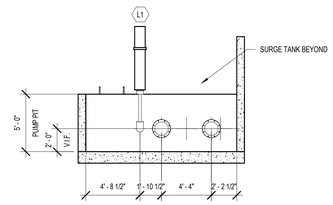
NOTES:
1. THE BASIS OF DESIGN MANUFACTURER IS EVOQUA WATER TECHNOLOGIES. ALTERNATE MANUFACTURER: PROMINENT, AQUIONIC, OR APPROVED EQUAL.
2. INTERLOCK UV SYSTEM WITH CHEMICAL CONTROLLER OR RECIRCULATION PUMP.
3. REFER: 7 / AQ5.2

PIPE SCHEDULE

TYPE	DIAMETER	DESCRIPTION
P1	12"	FROM M1 TO PP1 AND PP2
P2	10"	FROM PP1 AND PP2 TO F1
P3	8"	FROM F1 TO POOL INLETS
P4	8"	FROM F1 TO BACKWASH CATCH BASIN
P5	6"	FROM PP3 TO FEATURE MANIFOLD
P6	8"	FROM GUTTER DROPOUT TO SURGE TANK
P7	8"	FROM GUTTER DROPOUT TO SURGE TANK
P8	8"	FROM GUTTER DROPOUT TO SURGE TANK
P9	8"	FROM GUTTER DROPOUT TO SURGE TANK
P10	6"	FROM L1 TO SURGE TANK
P12	4"	FROM PX TO BACKWASH CATCH BASIN
P13	4"	FROM PX TO H1
P14	4"	FROM H1 TO PX
P15	6"	FROM P5 TO PLAY STRUCTURE
P16	3"	FROM P5 TO BUBBLERS
P17	8"	FROM M1 TO PP3
P18	4"	FROM PP3 TO FLOOR INLETS
P19	4"	FROM PP3 TO FLOOR INLETS



2 MECHANICAL ROOM SECTION
3/16" = 1'-0"



3 MECHANICAL ROOM SECTION
3/16" = 1'-0"

EQUIPMENT SCHEDULE

ID	ITEM
1	CHEMICAL CONTROLLER REFER:13 / AQ5.2
2	WATER LEVEL CONTROLLER REFER: 3 / AQ5.4
3	VARIABLE FREQUENCY DRIVE AND BYPASS PANEL
4	FLOW METER SENSOR REFER:14 / AQ5.2
5	IMPACT FLOW METER REFER:15 / AQ5.2
6	15'-0"x3'-4"x10'-0" DEEP BACKWASH CATCH BASIN
7	LADDER RUNGS
8	SAFETY CHAIN
9	REMOVABLE RAILING
10	WATER SEAL REFER: 2 / AQ4.3
11	HARD PIPE TO DRAIN
12	EYEWASH STATION REFER TO PLUMBING
13	CHLORINE STORAGE
14	ACID STORAGE
15	CO2 STORAGE

GENERAL POOL MECHANICAL NOTES

1. EQUIPMENT ROOM FLOOR AND PUMP PIT FLOOR MUST SLOPE 1/4" TO 1/2" PER FOOT TO FLOOR DRAINS OR SUMP PIT. REFER TO PLUMBING.
2. PROVIDE HOSE BIBBS FOR HOUSE CLEANING PURPOSES. REFER BUILDING MECHANICAL DRAWINGS.
3. THE INSIDE SURFACES OF THE BACKWASH CATCH BASIN MUST BE WATERPROOFED. REFER TO SPECIFICATION.
4. VENTILATION OF POOL MECHANICAL ROOM AND CHEMICAL STORAGE AREAS PER LOCAL, STATE, AND INTERNATIONAL MECHANICAL CODE MINIMUM. REFER TO MECHANICAL.
5. THE FOLLOWING INFORMATION MUST BE LAMINATED AND POSTED IN THE POOL MECHANICAL ROOM: BACKWASH PROCEDURE, POOL FILLING AND DRAINING, VALVE REFERENCE CHART, POOL MECHANICAL ROOM PLAN, POOL PIPING SCHEMATICS, AND POOL SYSTEMS SCHEMATICS.
6. REFER TO MECHANICAL FOR HVAC SYSTEMS DESIGN.
7. REFER TO ARCHITECTURAL DRAWINGS FOR LADDER RUNGS, SAFETY CHAIN, AND REMOVABLE RAILING AT PUMP PIT.

PIPING

1. MINIMUM 7'-0" CLEARANCE BENEATH ALL OVERHEAD PIPING.
2. PROVIDE AND SUPPORT OVERHEAD AND VERTICAL PIPING PER SPECIFICATION REQUIREMENTS.
3. LABEL AND IDENTIFY ALL PIPING IN COMPLIANCE WITH THE SPECIFICATIONS.
4. ALL FLOW METERS MUST BE SIZED TO MATCH THE PIPE ON WHICH IT IS INSTALLED. PROVIDE PRESSURE GAUGES ON INFLUENT AND EFFLUENT SIDE OF EACH FILTRATION SYSTEM AND A FULL LINE SIZE FLOW METER ON FILTER RETURN.
5. HYDROSTATICALLY TEST ALL PIPING AT 50 PSI FOR TWO HOURS AND MAINTAIN A PRESSURE OF 20 PSI IN ALL PIPING THROUGHOUT CONSTRUCTION. SECURE ALL FIXTURES PER SPECIFICATION REQUIREMENTS BEFORE HYDROSTATIC TEST.
6. REFER TO DETAILS DRAWING AQ4.3 FOR INSTALLATION OF PIPE SUPPORTS.
7. ALL VALVE HARDWARE MUST BE 316L STAINLESS STEEL AND MEET ANSI HARDWARE INSTALLATION GUIDLINES. <<REFER:>>
8. ALL PIPING ROUTED THROUGH THE CHEMICAL ROOM WALLS INTO THE MAIN MECHANICAL ROOM MUST BE PROPERLY SEALED AND FIREPROOFED PER THE FIRE RATING OF THE ROOM. REFER TO ARCHITECT.

CHEMICAL TREATMENT

1. CHEMICAL FEED REQUIREMENTS - REFER TO THE POOL SYSTEMS SCHEMATIC(S) ON AQ6.0.
2. INTERLOCK POOL RECIRCULATION PUMP(S) WITH ITS CORRESPONDING WATER CHEMISTRY CONTROLLER, CHEMICAL FEED PUMP(S), AND HEATER(S).
3. PROVIDE SIGNAGE ON CHEMICAL ROOM DOORS IN COMPLIANCE WITH THE STATE FIRE CODE. REFER:10 / AQ5.2
4. SECURE CHEMICAL METERING PUMP FEED LINES TO WALL AND/OR OVERHEAD WITH CLIPS OR DEVICES THAT DO NOT CRIMP, DISTORT OR ALLOW HIGH AND LOW AREAS IN TUBING RUNS. PROVIDE CHECK VALVE AND SHUT-OFF VALVE BEFORE LINES ENTER POOL RETURN PIPING.
5. WATER CHEMISTRY CONTROLLERS MUST CONTROL THE SANITIZING SYSTEM AND PH CONTROL SYSTEM AND SHUT THEM DOWN UPON LOSS OF SAMPLE STREAM FLOW.
6. THE CHEMICAL SENSOR LINE MUST BE A 3/4" TO 1" DIAMETER, SCHEDULE 80 PVC PIPE EXTENDED FROM THE WET CELL SENSOR TO ITS RESPECTIVE FILL FUNNEL AND THE BACKWASH CATCH BASIN OR PUMP SECTION.
7. SAMPLE FEED PIPING TO/FROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE PIPED PER THE SYSTEMS SCHEMATIC. BYPASS PIPING MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
8. VERIFY REMOTE ACCESS CAPABILITY TO ALL CHEMICAL CONTROLLERS. REFER TO ELECTRICAL.
9. INSTALL SANITIZER INJECTION POINT DOWNSTREAM OF PH BUFFER INJECTION POINT ON FILTERED WATER RETURN PIPE. CHEMICAL INJECTION POINTS MUST BE LOCATED DOWNSTREAM OF ALL OTHER EQUIPMENT/SYSTEMS IN THE POOL MECHANICAL ROOM AT A MAXIMUM HEIGHT OF 7'-0" ABOVE FINISHED FLOOR. REFER: 9 / AQ5.2

ELECTRICAL

1. GFCI'S PROVIDED AT OUTLETS. REFER TO ELECTRICAL.
2. POOL EQUIPMENT ROOM AND CHEMICAL STORAGE AREAS MUST BE PROVIDED WITH ARTIFICIAL LIGHTING SUFFICIENT TO ILLUMINATE ALL EQUIPMENT AND SUPPLIES. REFER TO ELECTRICAL.
3. CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.

FILTER SCHEDULE

ID	MANUFACTURER	FILTER MODEL	QTY.	FILTRATION TYPE	MAXIMUM FILTRATION RATE (GPM/SQ.FT)	REQUIRED FILTRATION AREA (SQ.FT.)	DESIGN FILTRATION RATE (GPM/SQ.FT.)	DESIGN FILTRATION AREA (SQ.FT.)	FILTER BACKWASH RATE (GPM/SQ.FT.)	BACKWASH FLOW RATE PER FILTER (GPM)
F1	NEPTUNE BENSON	SHFFG 60x84	2	HRS	13.5	88.9	13.1	91.6	20.0	916

NOTES:
1. BACKWASH METHOD MUST BE MANUAL.
2. ALL FILTER SUPPORTS MUST BE SEISMICALLY RATED FOR THE SEISMIC ZONE IN WHICH IT IS INSTALLED IN ACCORDANCE WITH LOCAL AND/OR STATE REQUIREMENTS.
3. FILTER MANUFACTURER MUST CERTIFY FILTER MEDIA.
4. THE BACKWASH PIPING MUST TERMINATE NO CLOSER THAN 6" ABOVE THE FLOOD RIM OF THE BACKWASH BASIN OR TWICE THE PIPE DIAMETER, WHICHEVER IS GREATER.
5. FILTER TANK ASSEMBLIES MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL FOR A MAXIMUM FLOW RATE 20 GPM PER SQUARE FOOT OF FILTER MEDIA.
6. THE BACKWASH THROTTLING VALVE(S) HANDLE MUST BE REMOVED AND TURNED OVER TO THE OWNER ONCE THE BACKWASH FLOW RATE(S) HAVE BEEN TESTED, ADJUSTED, AND BALANCED.
7. PROVIDE 1" DIAMETER, SCHEDULE 80 PVC PIPE FROM THE AUTOMATIC AIR VENT ON EACH OF THE FILTER TANKS TO THE NEAREST FLOOR DRAIN OR BACKWASH CATCH BASIN. THE VENT PIPE MUST BE SLOPED TO THE DRAIN.
8. VALVES MUST BE PROVIDED TO BACKWASH EACH FILTER TANKS INDEPENDENTLY.
9. FILTER TANK MUST BE BACKWASHED AT NO LESS THAN 15.0 GPM/SF.

HEATER SCHEDULE

ID	MAKE	MODEL	BOILER EFF (%)	INPUT (BTUH)	AIR INLET SIZE (INCHES)	PIPE SIZE (IN/OUT)	VENT SIZE (INCH)	ELECTRICAL DATA (2 REQUIRED CONNECTIONS PER HEATER)			
								V	PH	HZ	AMP
H1	LOCHINVAR AQUAS	APO1500	96	1,500,000	8"	3"	8"	120 120	1 1	60 60	20 20

NOTES:
1. THE BASIS OF DESIGN MANUFACTURER IS LOCHINVAR. ALTERNATE MANUFACTURER: RAYPACK OR APPROVED EQUAL.
2. HEATERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
3. REFER: 8 / AQ5.2

PUMP SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	SIZE	GPM	TDH	HP	NPSHR	HAIR/LINT		NOTES
									MAKE	SIZE	
PP1	POOL RECIRCULATION PUMP REFER: 1 / AQ5.2	PENTAIR	AURORA 3801	5x6x11	1,200	90	40	12.45	MER-MADE	12"x6"	1,2,3,4, 5,7,9
PP2	POOL RECIRCULATION PUMP REFER: 1 / AQ5.2	PENTAIR	AURORA 3801	5x6x11	1,200	90	40	12.45	MER-MADE	12"x6"	1,2,3,4, 5,7,9
PP2	SPRAY FEATURE PUMP REFER: 1 / AQ5.2	PENTAIR	AURORA 3801	4x5x9.5	600	47	10	7.81	MER-MADE	8"x5"	1,2,3,4, 5,6,7,8

NOTES:
1. THE MANUFACTURER INDICATED IS THE BASIS OF DESIGN. PUMP MANUFACTURERS: GRISWOLD, HERBORNER, PACO ARE CONSIDERED EQUALS PROVIDED THEY MEET SPECIFICATIONS AS INDICATED IN BID DOCUMENTS.
2. POOL PUMPS AND STRAINERS MUST BE INSTALLED ON HOUSEKEEPING PADS.
3. PROVIDE INFLUENT AND EFFLUENT GAUGES FOR EACH PUMP. PRESSURE GAUGES MUST HAVE A RANGE OF 0-60 PSI. COMPOUND GAUGES MUST HAVE A RANGE OF 0-30 HG / 0-60 PSI.
4. PROVIDE WITH 460 VOLT, 3 PHASE, 60HZ, 1750 RPM MOTOR.
5. PROVIDE VARIABLE FREQUENCY DRIVE AND BYPASS.
6. PROVIDE REMOTE PUMP START.
7. PROVIDE EMERGENCY STOP.
8. PROVIDE HAIR AND LINT STRAINERS WITH PERFORATIONS NO GREATER THAN 1/16".
9. PROVIDE CHECK VALVE.

CHEMICAL FEED SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	TUBE #	PUMP HP	FLOW
CF1	SODIUM HYPOCHLORITE FEED PUMP REFER: 2 / AQ5.2	STENNER	45M5	5	FRAC	50 GAL/DAY
CF2	ACID FEED PUMP REFER: 3 / AQ5.2	STENNER	45M3	3	FRAC	22 GAL/DAY
CF3	CO2 FEED SYSTEM REFER: 5 / AQ5.2	PROMINENT	CO2-200	N/A	N/A	20-200 SCFH

NOTES:
1. THE MANUFACTURER INDICATED IS THE BASIS OF DESIGN. ALTERNATE MANUFACTURER: PROMINENT, LMI, OR APPROVED EQUAL.
2. << THE MANUFACTURER INDICATED IS THE BASIS OF DESIGN. ALTERNATE MANUFACTURER: PROMINENT, BECS, EKO3, OR APPROVED EQUAL.>>
3. PROVIDE WITH 120 VOLT, SINGLE PHASE, ADJUSTABLE FEED.
4. INTERLOCK WITH POOL RECIRCULATION PUMP.

ELECTRONIC FLOCCULATION SYSTEM SCHEDULE

ID	MANUFACTURER	MODEL	PIPE SIZE (NOMINAL)	INPUT VOLTAGE	POWER RATING (W)	POWER CABLE LENGTH (FT)	SIGNAL CABLE LENGTH (FT)
E1	CLEAR-FLOW	CF-1000C	10"	100-240 VAC	5.4	15	33

NOTE:
REFER: 9 / AQ5.3

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MARK	DATE	DESCRIPTION
ISSUE:		Issue Date

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: SLC
CHECKED BY: CCH
SHEET TITLE:

POOL MECHANICAL ROOM PLAN & SECTIONS

SHEET NO:
AQ5.0

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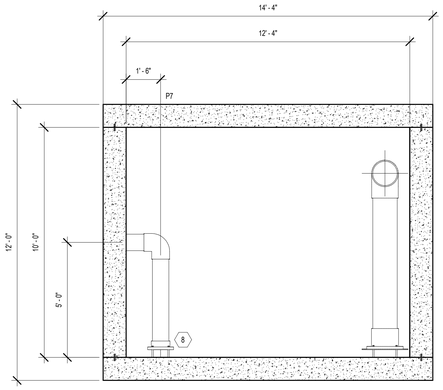
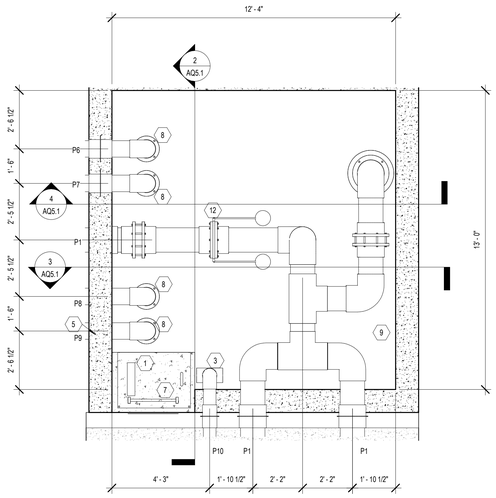


4 SURGE TANK SECTION
3/8" = 1'-0"



1 SURGE TANK PLAN
3/8" = 1'-0"

SURGE TANK NOTES

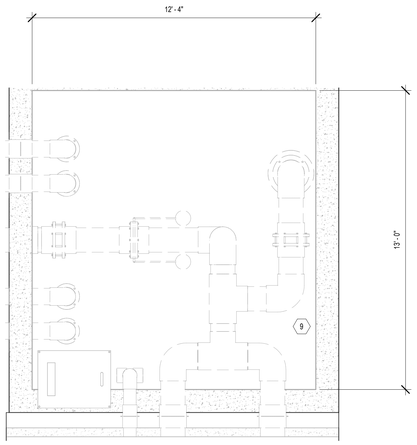
1. A WATERPROOFING COATING MUST BE PROVIDED TO ALL INTERIOR SURFACES OF SURGE TANK INCLUDING LID.
2. PROVIDE WATER TIGHT PIPE PENETRATIONS AND INTERFACES WITHIN THE SURGE TANK.
3. REFER TO STRUCTURAL DRAWINGS FOR SURGE TANK STRUCTURAL SHELL DESIGN.
4. SLEEVES IN SLAB OVER SURGE TANK FOR VALVE EXTENSIONS POSITIONED DIRECTLY ABOVE SURGE TANK VALVES BELOW MUST BE COORDINATED.
5. DRILL 1" DIAMETER HOLE ON TOP OF ELBOW. TYPICAL ALL GUTTER DROPOUT LINES.
6. POLYPROPYLENE LADDER WITH PULL-UP HANDRAIL MUST BE PROVIDED.
7. REFER TO STRUCTURAL DRAWINGS FOR WATER STOPS.
8. PVC ANTI-VORTEX PLATE MUST BE MINIMUM 2.5 TIMES CONNECTING PIPE DIAMETER UP TO 24" AND 4" A.F.F.
9. PROVIDE SUPPORT FLANGES WITH FOUR (4) LEGS EQUAL TO NOMINAL PIPE DIAMETER, BUT NOT LESS THAN 6" A.F.F.
10. PROVIDE 18"x18"x12" DEEP SUMP LOCATED NEAR ACCESS HATCH.

PIPE SCHEDULE

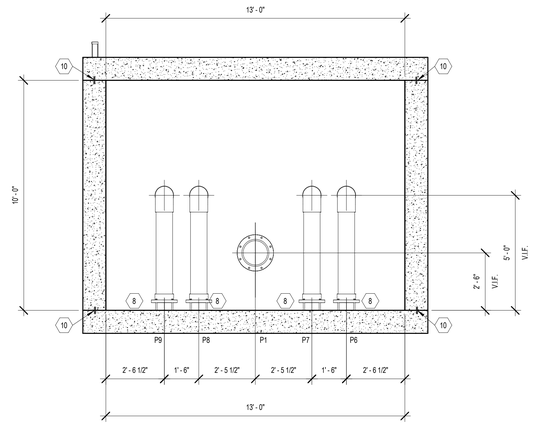
TYPE	DIAMETER	DESCRIPTION
P1	12"	FROM M1 TO PP1 AND PP2
P2	10"	FROM PP1 AND PP2 TO F1
P3	8"	FROM F1 TO POOL INLETS
P4	8"	FROM F1 TO BACKWASH CATCH BASIN
P5	6"	FROM PP3 TO FEATURE MANIFOLD
P6	8"	FROM GUTTER DROPOUT TO SURGE TANK
P7	8"	FROM GUTTER DROPOUT TO SURGE TANK
P8	8"	FROM GUTTER DROPOUT TO SURGE TANK
P9	8"	FROM GUTTER DROPOUT TO SURGE TANK
P10	6"	FROM L1 TO SURGE TANK
P12	4"	FROM PX TO BACKWASH CATCH BASIN
P13	4"	FROM PX TO H1
P14	4"	FROM H1 TO PX
P15	6"	FROM P5 TO PLAY STRUCTURE
P16	3"	FROM P5 TO BUBBLERS
P17	8"	FROM M1 TO PP3
P18	4"	FROM PP3 TO FLOOR INLETS
P19	4"	FROM PP3 TO FLOOR INLETS

EQUIPMENT SCHEDULE

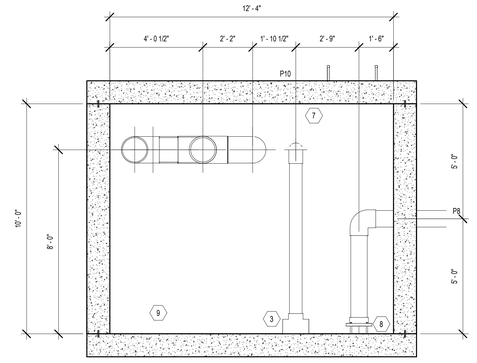
ID	ITEM
1	ACCESS HATCH REFER: 1 / AQ5.4
2	WATER LEVEL CONTROLLER(S) REFER: 3 / AQ5.4
3	SUPPORT TEE REFER: 4 / AQ5.4
4	SURGE TANK VENT REFER: 6 / AQ5.4
5	WATER SEAL REFER: 2 / AQ4.3
6	SUMP
7	SURGE LADDER RUNGS
8	SUPPORT FLANGE
9	ANTI-VORTEX PLATE
10	WATERSTOP
11	VALVE EXTENSION REFER: 5 / AQ5.4
12	MODULATING FLOAT VALVE REFER: 3 / AQ4.3



5 SURGE TANK VALVE EXTENSION PLAN
3/8" = 1'-0"



2 SURGE TANK SECTION
3/8" = 1'-0"



3 SURGE TANK SECTION
3/8" = 1'-0"

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POOL SURGE TANK PLAN & SECTIONS

SHEET NO:
AQ5.1

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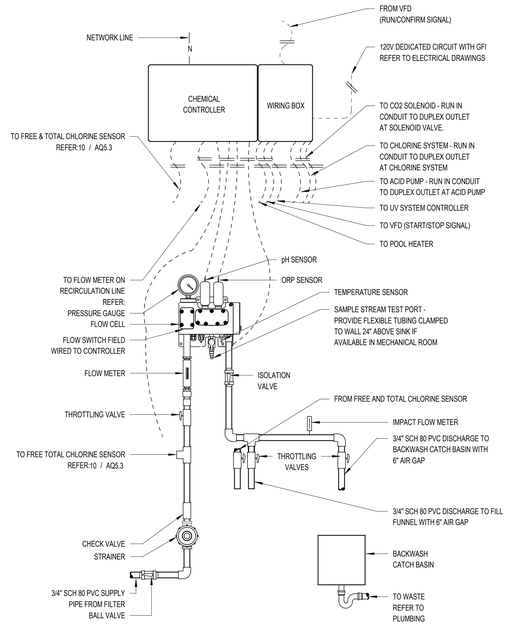
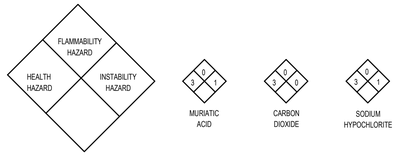


NOTES:
1. INTERLOCK WITH RECIRCULATION PUMP OCCURS INSIDE THE WIRING BOX ON BECS CONTROLLERS. CONTRACTOR TO PROVIDE FIELD WIRE INTERLOCK EXTERNAL TO THE CONTROLLER IF A BECS CONTROLLER IS NOT USED.
2. DRAWING IS FOR REFERENCE ONLY. REFER TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. PIPE RUN FROM RECIRCULATION PIPE TO SAMPLE CELL TO BE 50 FEET OR LESS.
4. SAMPLE FEED PIPING TOFROM THE RECIRCULATION SYSTEM TO THE WATER CHEMISTRY CONTROLLER MUST BE SADDLED OR TEED. NO TAPPING OR DRILLING INTO THE PIPING WILL BE ALLOWED.
5. PROVIDE ETHERNET CONNECTION FOR REMOTE ACCESS T OALL WATER CHEMISTRY CONTROLLERS AND COORDINATE INTERFACE TO BUILDING MANAGEMENT SYSTEM. REFER TO ELECTRICAL AND/OR CONTROLS CONSULTANT.

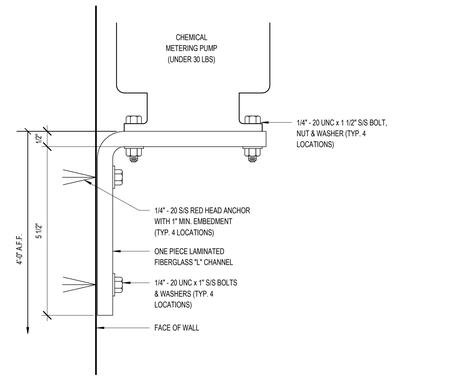
13 CHEMICAL CONTROLLER
1 1/2" = 1'-0"



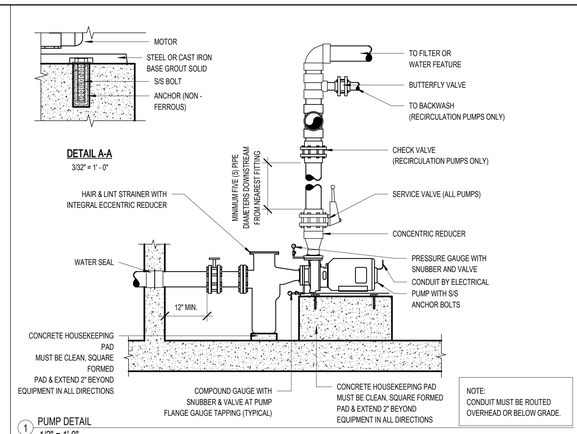
RATING EXPLANATION GUIDE			
RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD
4	CAN BE LETHAL	BELOW 73 DEGREES F	MAY EXPLODE AT NORMAL TEMPERATURES & PRESSURES
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	ABOVE 73 DEGREES, BELOW 100 DEGREES F	MAY EXPLODE AT HIGH TEMPERATURE OR SHOCK
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	ABOVE 100 DEGREES, BELOW 200 DEGREES F	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES
1	CAN CAUSE SIGNIFICANT IRRITATION	ABOVE 200 DEGREES F	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE
0	NO HAZARD	WILL NOT BURN	STABLE

CONFIRM SIGNAGE WITH LOCAL FIRE MARSHAL AND/OR BUILDING CODES PRIOR TO INSTALLATION.

10 HAZARD SIGNAGE
NTS

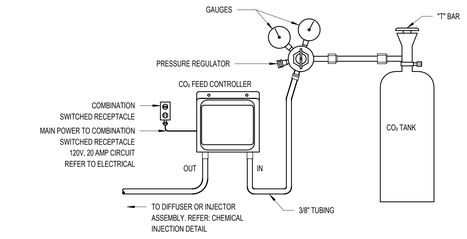


6 CHEMICAL PUMP SHELF
6" = 1'-0"

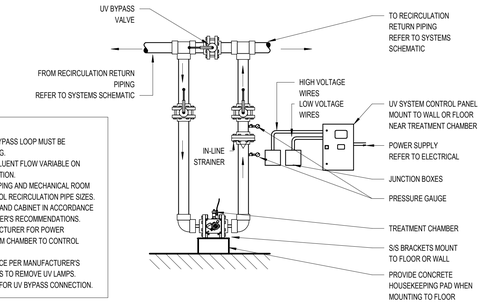


NOTE:
CONDUIT MUST BE ROUTED OVERHEAD OR BELOW GRADE.

1 PUMP DETAIL
1/2" = 1'-0"

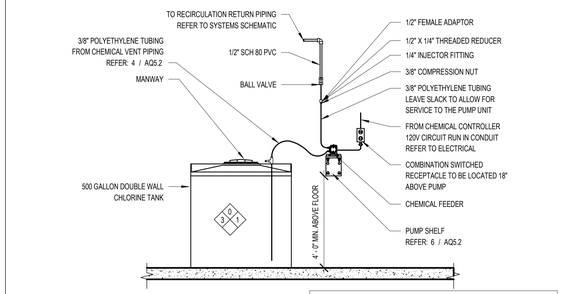


5 CO2 STORAGE REGULATION
1/2" = 1'-0"



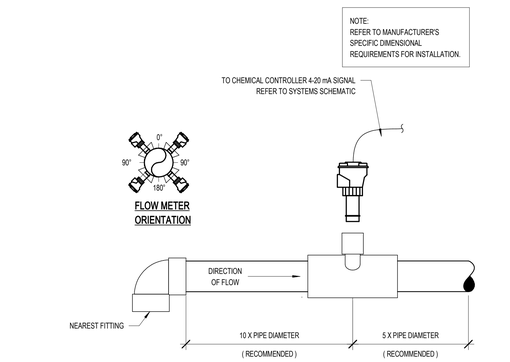
NOTE:
1. ALL PIPING IN UV BYPASS LOOP MUST BE SCHEDULE 80 PIPING.
2. INFLUENT AND EFFLUENT FLOW VARIABLE ON CHAMBER ORIENTATION.
3. REFER TO POOL PIPING AND MECHANICAL ROOM DRAWINGS FOR POOL RECIRCULATION PIPE SIZES.
4. INSTALL CHAMBER AND CABINET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO MANUFACTURER FOR POWER CONNECTIONS FROM CHAMBER TO CONTROL CABINET.
6. PROVIDE CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS TO REMOVE UV LAMPS.
7. REFER: 2 / AQ5.3 FOR UV BYPASS CONNECTION.

7 UV TREATMENT SYSTEM
1/2" = 1'-0"

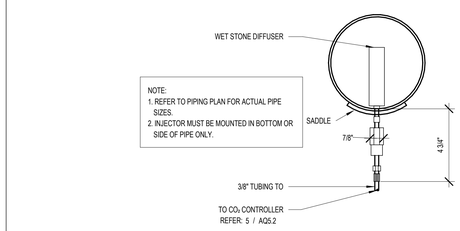


NOTE:
1. ALL PIPE AND FITTINGS MUST BE NON-METALLIC WITH S/S FASTENERS.
2. ALL PIPE PENETRATIONS IN THE BULK TANK MUST BE FACTORY MADE IN THE FLAT SECTIONS. FIELD CUTTING BULK TANK WILL NOT BE PERMITTED.
3. ALL PIPE PENETRATIONS MUST BE SEALED WITH A BULKHEAD FITTING.

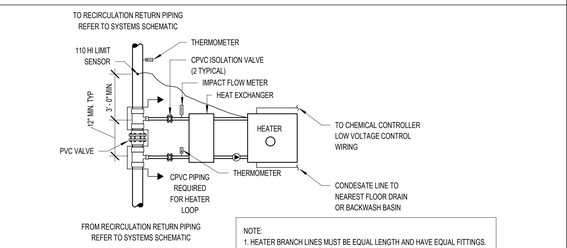
2 CHLORINATION SYSTEM
3/8" = 1'-0"



14 FLOW METER SENSOR
3/4" = 1'-0"

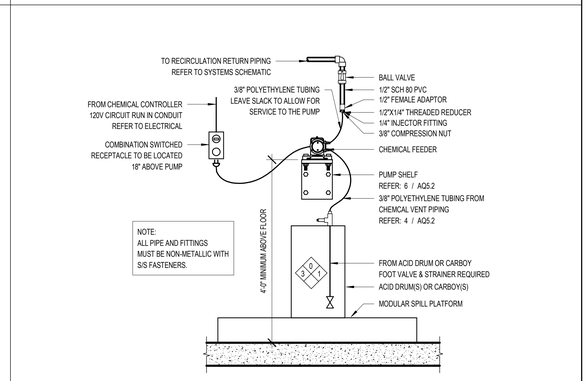


11 CO2 DIFFUSER
3" = 1'-0"



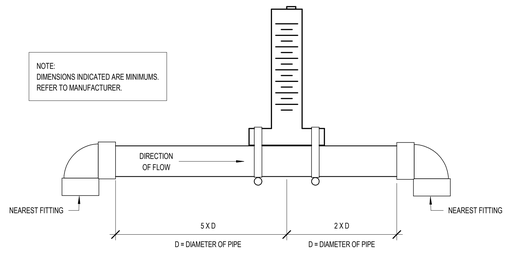
NOTE:
1. HEATER BRANCH LINES MUST BE EQUAL LENGTH AND HAVE EQUAL FITTINGS.
2. PROVIDE ALL NECESSARY SUPPORTS AND CONNECTIONS DEEMED NECESSARY FOR COMPLETE INSTALLATION OF HEATER AND PIPING.
3. VERIFY ALL DIMENSIONS AND LOCATIONS ON SITE PRIOR TO INSTALLATION.
4. POOL HEATER MUST BE WITHIN 15'-0" OF POOL RECIRCULATION LINE.
5. HI LIMIT SENSOR MUST BE INSTALLED A MINIMUM OF 3'-0" DOWNSTREAM FROM HEATER CONNECTION.
6. INSTALL PER MANUFACTURER RECOMMENDATIONS.
7. INSTALL FLOW METER IN STRAIGHT PIPE WITH TEN PIPE DIAMETERS PRIOR AND FIVE PIPE DIAMETERS AFTER FLOW METER.
8. HEATER AIR INTAKE, VENTING, AND GAS LINE MUST BE BY MECHANICAL. ELECTRICAL CONNECTIONS MUST BE BY ELECTRICAL. REFER TO HEATER SCHEDULE FOR MINIMUM REQUIREMENTS.
9. 1/2" DOMESTIC WATER LINE TO PRESSURE REDUCING AUTO FILL VALVE MUST BE BY PLUMBING.
10. REFER: 2 / AQ5.3 FOR HEATER BYPASS CONNECTION.

8 CONDENSING BOILER
1/4" = 1'-0"

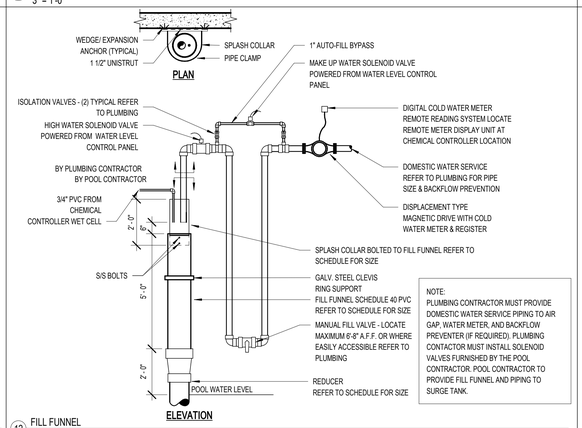


NOTE:
ALL PIPE AND FITTINGS MUST BE NON-METALLIC WITH S/S FASTENERS.

3 ACID SYSTEM
3/4" = 1'-0"

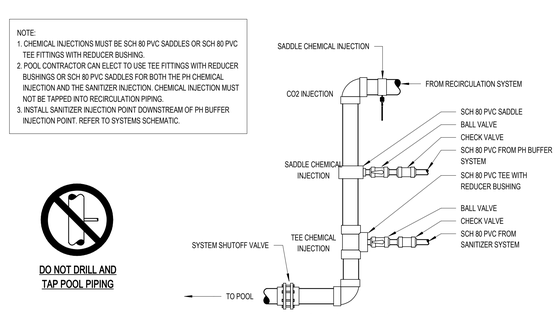


15 IMPACT FLOW METER
3/4" = 1'-0"

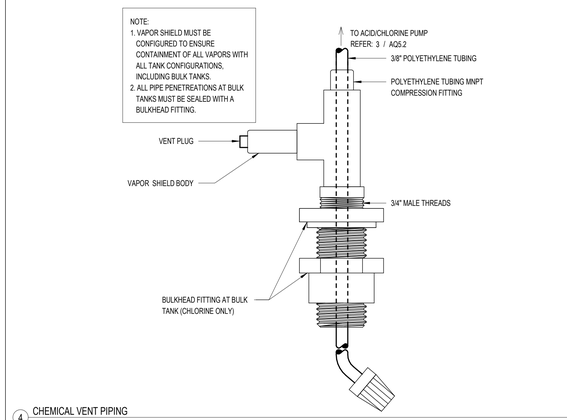


NOTE:
PLUMBING CONTRACTOR MUST PROVIDE DOMESTIC WATER SERVICE PIPING TO AIR GAP, WATER METER, AND BACKFLOW PREVENTER (IF REQUIRED). PLUMBING CONTACTOR MUST INSTALL SOLENOID VALVES FURNISHED BY THE POOL CONTRACTOR. POOL CONTRACTOR TO PROVIDE FILL FUNNEL AND PIPING TO SURGE TANK.

12 FILL FUNNEL
3/8" = 1'-0"



9 CHEMICAL INJECTION
1/2" = 1'-0"



4 CHEMICAL VENT PIPING
6" = 1'-0"

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POOL MECHANICAL DETAILS

SHEET NO:
AQ5.2

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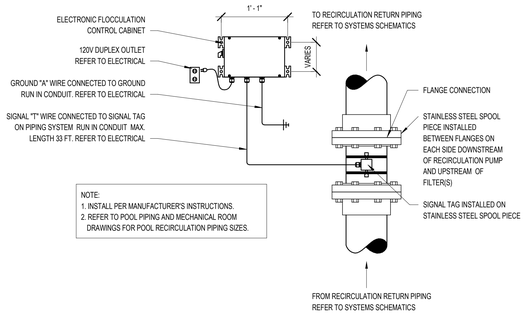
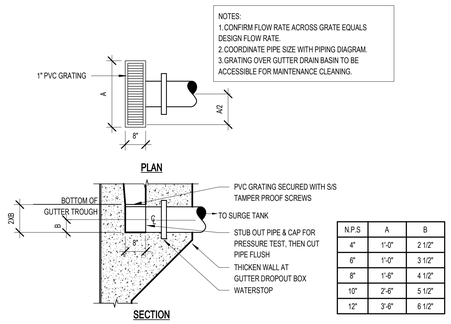
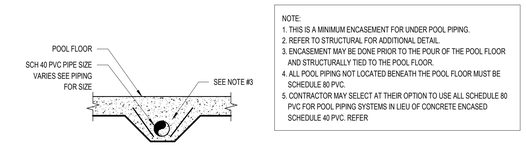


9 ELECTRONIC FLOCCULATION SYSTEM
1" = 1'-0"

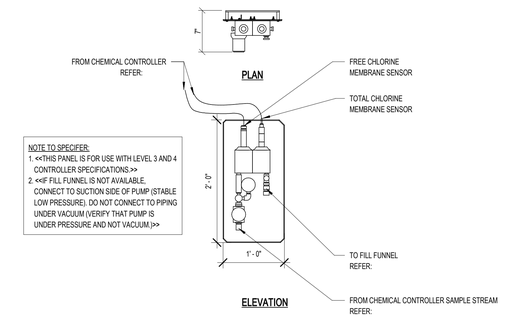


N.P.S	A	B
4"	1'-0"	2 1/2"
6"	1'-0"	3 1/2"
8"	1'-6"	4 1/2"
10"	2'-6"	5 1/2"
12"	3'-6"	6 1/2"

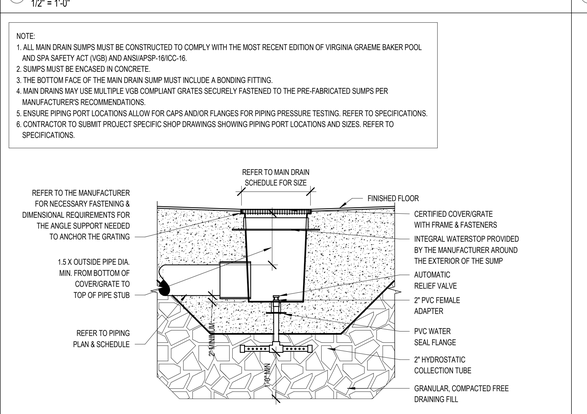
5 GUTTER DROPOUT BOX
1/2" = 1'-0"



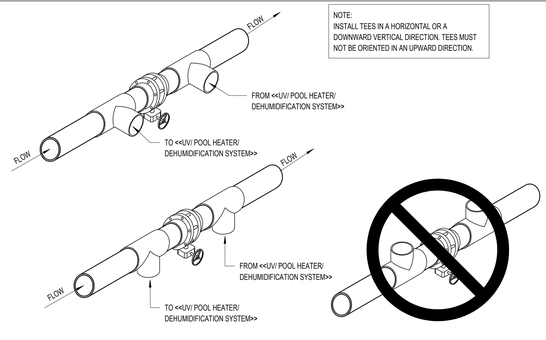
1 CONCRETE ENCASED PIPE
1/2" = 1'-0"



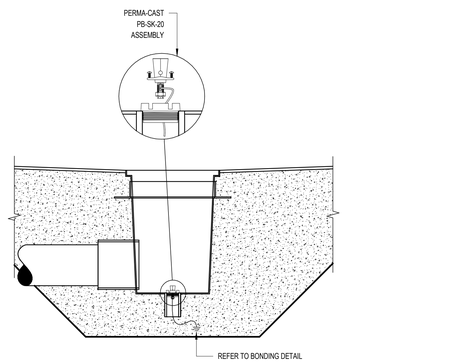
10 FREE & TOTAL CHLORINE SENSOR
1" = 1'-0"



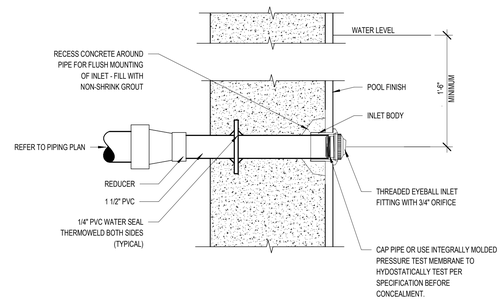
6 MAIN DRAIN
3/4" = 1'-0"



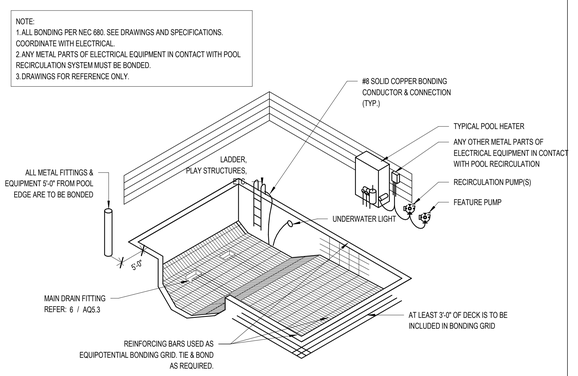
2 PIPING BYPASS
1/2" = 1'-0"

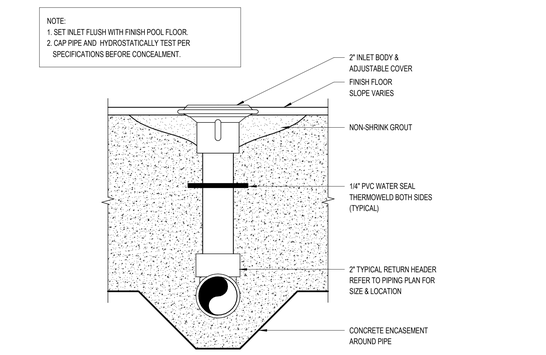


7 TYPICAL BONDING DETAIL
NTS



3 WALL INLET
3" = 1'-0"





4 FLOOR INLET
3" = 1'-0"

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POOL MECHANICAL DETAILS

SHEET NO:
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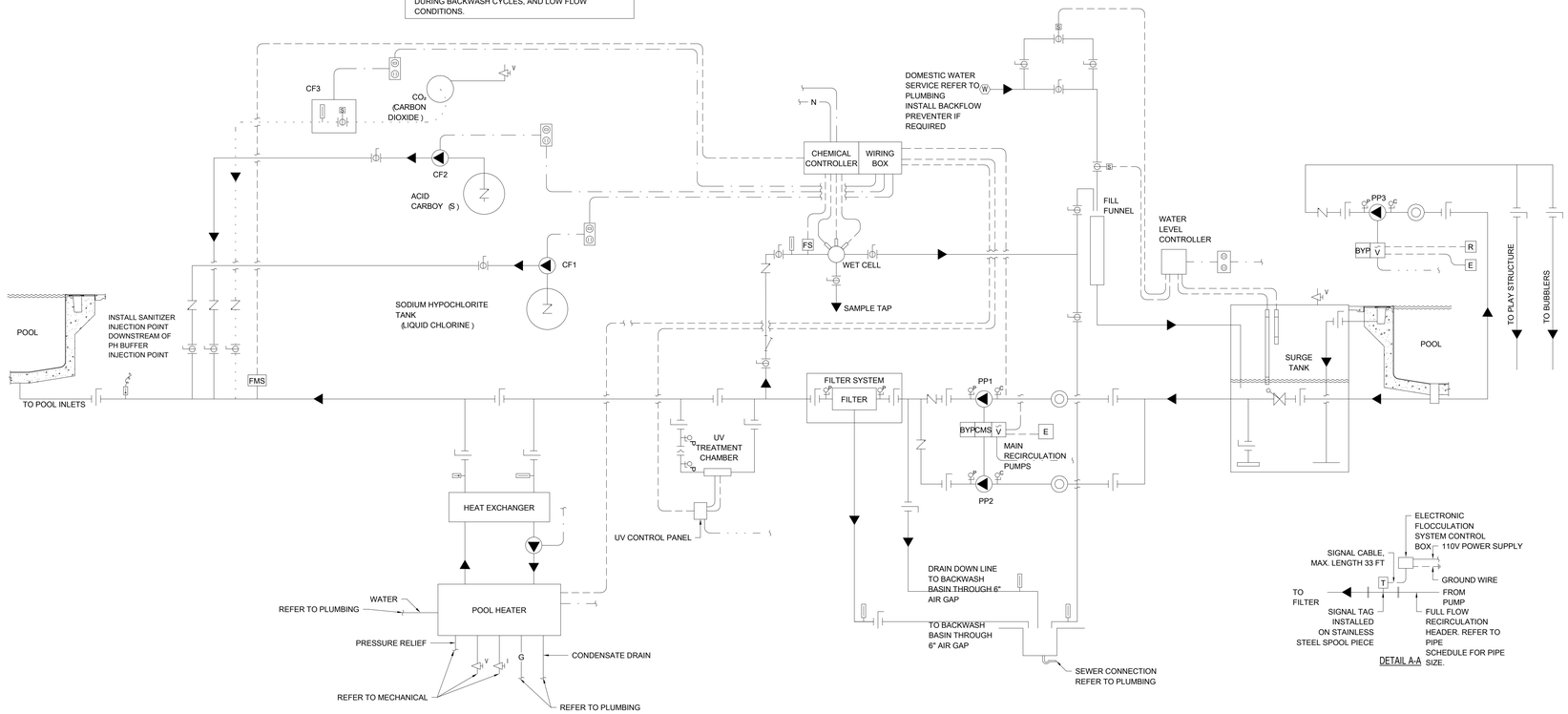
NOTE:
THE WATER CHEMISTRY CONTROLLER MUST BE INTERLOCKED WITH THE RECIRCULATION PUMP TO DISABLE ITS OPERATION WHEN THE RECIRCULATION PUMP IS SHUT OFF THROUGH THE WATER CHEMISTRY CONTROLLER FLOW SWITCH. THE WATER CHEMISTRY CONTROLLER MUST BE EQUIPPED WITH A LOW FLOW ALARM THAT DE-ACTIVATES CHEMICAL FEED SYSTEM DURING BACKWASH CYCLES, AND LOW FLOW CONDITIONS.



DETAIL A-A

SCHEMATIC LEGEND

LEGEND	ITEM
	FLOW DIRECTION
	BUTTERFLY VALVE
	BALL VALVE
	MODULATING FLOAT
S	SOLENOID VALVE
	CHECK VALVE
	PUMP
	HAIR AND LINT STRAINER
	"Y" STRAINER
FMS	FLOW METER
FS	FLOW SWITCH
	IMPACT FLOW METER
	VENTURI FLOW METER
W	WATER METER
AV	AUTOMATIC AIR VENT
MV	AIR VENT
I	AIR INLET
P	PRESSURE GAUGE AND COCK
C	COMPOUND GAUGE AND COCK
	DIGITAL TEMP SENSOR
	THERMOMETER
A	PNEUMATIC ACTUATOR
	FLOW CONTROL VALVE
	COMBINATION SWITCH/RECEPTACLE
V	VARIABLE FREQUENCY DRIVE
R	REMOTE START/STOP
E	EMERGENCY STOP
BYP	VARIABLE FREQUENCY DRIVE BYPASS
CMS	CONTACT MOTOR SELECTOR
T	ELECTRONIC FLOCCULATION SIGNAL TAG
TS	15 MINUTE TIMER SWITCH
	LOW VOLTAGE CONTROL
	WATER LINE
	1 PHASE POWER
	3 PHASE POWER
	CO2 LINE
N	NETWORK LINE
G	GAS LINE

1 SYSTEM SCHEMATICS
NTS

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POOL SYSTEMS SCHEMATIC

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ELECTRICAL GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIAL NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.
2. MATERIALS AND INSTALLATION SHALL COMPLY WITH CODES, LAWS AND ORDINANCES OF FEDERAL, STATE AND LOCAL GOVERNING BODIES HAVING JURISDICTION.
3. MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA OR ANOTHER RECOGNIZED TESTING LAB.
4. ALL WORK REQUIRED FOR THE INSTALLATION AS SHOWN ON DRAWINGS INCLUDING LABOR, EQUIPMENT AND MATERIALS SHALL BE IN STRICT COMPLIANCE WITH THE BUILDING STANDARDS, EXCEPT AS NOTED OTHERWISE.
5. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE ELECTRICAL WORK.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER/OWNER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
7. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
8. ALL MATERIALS, AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
9. ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT THEIR WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT-DESIGNER OR THEIR REPRESENTATIVE.
10. E.C. IS TO REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ALL FIRE RATED PENETRATION INSTALLATION REQUIREMENTS. E.C. IS TO NOTIFY ENGINEER AND ARCHITECT PRIOR TO INSTALLING ANY FIXTURES WITHIN A FIRE RATED CEILING OR WALL. FIRE RATING MUST BE MAINTAINED FOR THIS TYPE OF INSTALLATION WITH DRYWALL TENTING.
11. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS, FOR EXAMPLE, ALL LIGHTING FIXTURES, PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
12. SUBMIT ELECTRONIC COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW:
    - A. POOL PUMP EQUIPMENT
    - B. COMBINATION OF VFD/DISCONNECT/STARTERS
    - C. REMOTE START/STOP CONTROL PANEL & COMPONENTS
    - D. PROVIDE "AS-BUILT" DRAWINGS AND SUBMIT TO ARCHITECT/DESIGNER.
13. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW, UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED.
14. DO NOT SHARE NEUTRAL CONDUCTORS FOR MULTIWIRE BRANCH CIRCUITS. WHERE SHARED NEUTRAL CONDUCTORS ARE REQUIRED (SUCH AS POWERED FURNITURE SYSTEMS), HANDLE TIES SHALL BE PROVIDED ON THE CIRCUIT BREAKERS, WITH SHARED NEUTRALS, SUCH THAT IT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS. ALL HANDLE TIES ARE REQUIRED TO BE INDICATED ON THE PANELBOARD SHOP DRAWINGS.
15. SHOULD ACTUAL FIELD CONDITIONS REQUIRE CIRCUIT DESIGNATIONS TO VARY, INDICATE THE CIRCUIT NUMBER USED ON THE "AS-BUILT" DRAWINGS.
16. ALL NEW CIRCUITS SHALL HAVE A GROUND WIRE INSTALLED.
17. ALL WIRING NOT INSTALLED IN CONDUIT AND INSTALLED IN THE CEILING SPACE SHALL BE PLENUM RATED
18. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SPECIAL OUTLET BOXES THAT MAY BE REQUIRED TO ENCLOSE RECEPTACLES.
19. EACH SWITCH, LIGHT, RECEPTACLE, AND OTHER MISCELLANEIOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NO. 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS MUST BE LEFT SEALED. THERE MUST BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
20. MINIMUM CONDUIT SIZE IS 3/4".
21. MULTI-CONDUCTOR, METAL CLAD CABLE, TYPE-MC IS NOT ALLOWED.
22. IN EXPOSED AND SUSPENDED CEILING APPLICATIONS, ROUTE CONDUIT AS CLOSE TO STRUCTURAL SLAB OR DECK AS POSSIBLE, AND SUPPORT CONDUIT AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SLAB, DECK, OR FRAMING PROVIDED FOR THAT PURPOSE.
23. ALL EXPOSED CONDUIT SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE, AND SHALL BE INSTALLED PARALLEL AND CLOSE TO STRUCTURAL MEMBERS. GENERAL CONTRACTOR SHALL PAINT CONDUIT TO MATCH ADJACENT FINISHES.
24. ALL RECEPTACLES SHALL BE SPECIFICATION GRADE NEMA 5-20R, UNLESS OTHERWISE NOTED.
25. ALL FACE PLATE AND DEVICE COLORS SHALL BE APPROVED BY ARCHITECT OR OWNER.
26. ROUGH-IN FOR POOL EQUIPMENT SHALL ONLY OCCUR AFTER POOL EQUIPMENT SUBMITTALS ARE THOROUGHLY REVIEWED FOR CHANGES. NOTIFY ENGINEER OF ANY DISCREPANCIES.
27. PROVIDE NEMA 3R AND CORROSION RESISTANT ELECTRICAL EQUIPMENT AND WIRING METHODS WITHIN POOL EQIPMENT, POOL AND SPA AREAS. REFER TO DRAWINGS AND SPECIFICATION.
28. THE POWER AND CONTROL REQUIREMENTS FOR ALL EQUIPMENT CONNECTIONS SHALL BE CONFIRMED WITH APPROVED SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. FINAL POWER REQUIREMENTS, DIMENSIONED ROUGH-IN LOCATIONS, LOW VOLTAGE SYSTEM CONNECTIONS, ETC. SHALL BE CONFIRMED AND MODIFIED AS REQUIRED.
29. ALL DEVICES IN OR ABOVE COUNTERS SHALL HAVE LOCATIONS AND MOUNTING HEIGHTS CONFIRMED WITH ARCHITECTURAL ELEVATIONS & OWNER PRIOR TO ROUGH-IN. ANY ADJUSTMENTS TO MOUNTING HEIGHTS REQUIRED BY LACK OF COORDINATION WILL BE AT THE CONTRACTOR'S EXPENSE.
30. ALL EXISTING ELECTRICAL SERVICES NOT SPECIFICALLY INDICATED TO BE REMOVED OR ALTERED SHALL REMAIN AS THEY PRESENTLY EXIST.
31. IDENTIFY EACH RECEPTACLE WITH PANELBOARD IDENTIFICATION AND CIRCUIT NUMBER. USE HOT, STAMPED, OR ENGRAVED MACHINE PRINTING WITH BLACK-FILLED LETTERING ON FACE OF PLATE, AND DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET BOXES.
32. UNLESS OTHERWISE NOTED, ALL GFCI RECEPTACLES SHALL HAVE TEST/RESET SWITCHES INTEGRAL TO RECEPTACLE DEVICE. NAMEPLATES FOR ALL DEVICES, DISCONNECT, POWER AND CONTROL PANELS, MOTOR SENSORS AND EQUIPMENT SHALL MATCH SCHEMATIC DIAGRAMS.
33. CIRCUITS TO ALL POWER AND CONTROL WIRING TO MATCH PANEL NUMBER AND SCHEMATIC DIAGRAM CIRCUIT NUMBERS.
34. A JOINT SUBMITTAL OF SHOP DRAWINGS FOR ALL CONTROL SYSTEMS SHALL BE REQUIRED TO COORDINATE ALL CONTROL SYSTEM DEVICES AND WIRING, INCLUDING ALL INTEGRATION TO THE DDC CONTROL SYSTEM.

ABBREVIATIONS

A	AMPERE(S)
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERES INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
BFF	BELOW FINISHED FLOOR
BOF	BOTTOM OF FIXTURE
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CLG	CEILING
CT	CURRENT TRANSFORMER
DED	DEDICATED CIRCUIT
DISC	DISCONNECT
DW	DISHWASHER
DWG(S)	DRAWING(S)
(E)	EXISTING TO REMAIN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
(ER)	EXISTING TO BE RELOCATED
EM	EMERGENCY
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
F	FUSE
FLA	FULL LOAD AMPS
GD	GARBAGE DISPOSAL
G	GROUND
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FACILITY
IG	ISOLATED GROUND
ISC	SHORT CIRCUIT CURRENT
KVA	KILOVOLT AMPERE(S)
KW	KILOWATT(S)
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPERE(S)
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION CENTER
MDF	MAIN DISTRIBUTION FACILITY
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
MW	MICROWAVE
NC	NORMALLY CLOSED
NL	NIGHT LIGHT - SEE GENERAL NOTES
NO	NORMALLY OPEN
OAE	OR APPROVED EQUAL
OFH	OVERALL FIXTURE HEIGHT
OH	OVERHEAD
P	POLE
PART	PARTIAL CIRCUIT
PH	PHASE
PNL	PANEL
(R)	REMOVED, EXISTING TO BE REMOVED
RCPT	RECEPTACLE
REF	REFRIGERATOR
RFD	RECESSED FIXTURE DEPTH
(RL)	RELOCATED LOCATION
SPD	SURGE PROTECTION DEVICE
UC	UNDER COUNTER/CABINET
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT(S)
W	WATT(S) OR WIRE
WFD	WALL FIXTURE DEPTH
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

DISTRIBUTION AND RACEWAY

- MDC — MAIN DISTRIBUTION CENTER (MDC)
- SURFACE MTD PANELBOARD
- RECESSED PANELBOARD
- T — TRANSFORMER
- BRANCH CIRCUIT HOMERUN
- CONDUIT CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT EXPOSED OR CONCEALED IN WALL OR CEILING
- RACEWAY UP
- RACEWAY DOWN
- CAPPED CONDUIT
- CURRENT TRANSFORMER
- CIRCUIT BREAKER SWITCH
- FUSED SWITCH
- GROUNDING ELECTRODE CONDUCTOR
- M — METER
- GFP — GROUND FAULT PROTECTION

SYSTEMS

- TTB, MDF OR IDF SYSTEM BACKBOARD
- TELECOMMUNICATION OUTLET
- FLOOR MOUNTED TELECOMMUNICATION OUTLET
- TELEVISION OUTLET
- CABLE TRAY (LENGTH AS INDICATED ON DRAWINGS)

SYMBOLS

- X — POOL EQUIPMENT SCHEDULE NOTATION
- X — KITCHEN EQUIPMENT SCHEDULE NOTATION
- X,X — MECHANICAL EQUIPMENT SCHEDULE NOTATION
- X — DETAIL NOTE
- x — DELTA REVISION NOTE
- x — ELECTRICAL WIRE SIZE
- XX — LIGHTING CONTROLS SEQUENCE OF OPERATION

LIGHTING FIXTURES

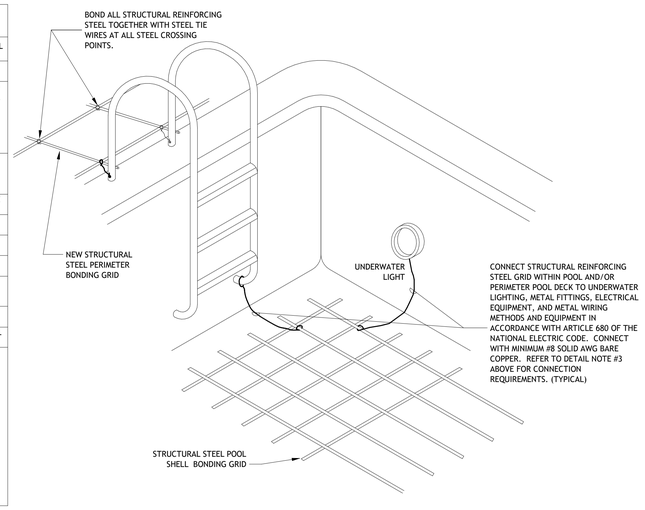
- $A1_a$ — LUMINAIRE TYPE, REFERENCING LUMINAIRE SCHEDULE, TYPICAL ALL FIXTURES. SUBSCRIPT, IF SHOWN, REFERENCES WALL SWITCH OR RELAY/ZONE CONTROL
- WALL MOUNTED LUMINAIRE
- SURFACE OR PENDANT MOUNTED LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED DOWNLIGHT LUMINAIRE
- SURFACE CEILING LUMINAIRE
- PENDANT LUMINAIRE
- ARROW INDICATES DIRECTIONAL LUMINAIRE
- MONOPOINT LUMINAIRE
- SURFACE OR PENDANT TRACK LUMINAIRE REFER TO FIXTURE SCHEDULE FOR HEAD QTY.
- LED TAPE LUMINAIRE
- FESTOON LIGHTING
- RECESSED MULTI-HEAD LUMINAIRE
- FLOOR OR TABLE LAMP
- EXIT LUMINAIRE - SHADED INDICATES FACE / DIRECTIONAL ARROWS AS SHOWN
- BATTERY PACK EMERGENCY LUMINAIRE
- HATCH INDICATES EMERGENCY LUMINAIRE
- K — PORCELAIN KEYLESS LAMP HOLDER
- STEP LIGHT TYPE LUMINAIRE
- IN-GRADE UPLIGHT
- BOLLARD LUMINAIRE
- PEDESTRIAN POLE OR POST TOP LUMINAIRE
- EXTERIOR AREA LIGHT

WIRING DEVICES

- DUPLEX RECEPTACLE
- FOUR PLEX RECEPTACLE
- SINGLE RECEPTACLE
- COMBO RECEPTACLE/SWITCH
- SWITCHED DUPLEX RECEPTACLE
- SWITCHED FOUR PLEX RECEPTACLE
- EMERGENCY POWERED DUPLEX RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE
- FLOOR MOUNTED SPECIAL PURPOSE RECEPTACLE
- FLOOR MOUNTED RECEPTACLE DUPLEX/QUAD
- CLG CLG — CEILING MOUNTED RECEPTACLE DUPLEX/QUAD
- SR — SURFACE RACEWAY
- CLOCK RECEPTACLE
- J — JUNCTION BOX
- J — WALL MOUNTED J-BOX
- J — FLOOR MOUNTED JUNCTION BOX
- MOLDED CASE CIRCUIT BREAKER IN ENCLOSURE
- NON-FUSED DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MAGNETIC CONTROLLER (STARTER)
- COMBINATION STARTER/DISCONNECT SWITCH
- HP — MOTOR
- R — RELAY
- TC — TIME CLOCK
- ^{TO} — THERMAL OVERLOAD SWITCH
- $ — SINGLE POLE SWITCH, LINE VOLTAGE
- ^{3} — 3-WAY SWITCH, LINE VOLTAGE
- ^{4} — 4-WAY SWITCH, LINE VOLTAGE
- ^{K} — KEY OPERATED SWITCH
- ^{D} — DIMMER SWITCH, LINE VOLTAGE
- ^{DOOR} — RECESSED DOOR SWITCH
- X — LIGHTING CONTROL DEVICE, REFER TO DETAILS FOR CONTROL INTENT

POOL BONDING REQUIREMENTS

1.	ALL GROUNDING AND BONDING OF ALL METALLIC PARTS ASSOCIATED WITH THE POOL AND WHIRLPOOL ARE TO BE IN COMPLIANCE WITH NEC SECTION 680.
2.	STRUCTURAL REINFORCING STEEL TERMINOLOGY IN NOTES BELOW REFERS TO REBAR OR WIREMESH INSTALLATIONS.
3.	BONDING TO CONDUCTIVE POOL SHELLS SHALL BE ACCOMPLISHED WITH REINFORCING STEEL BONDED WITH STEEL TIE WIRES, OR EQUAL, AND SHALL THEREBY SERVE AS A COMMON BONDING GRID FOR ALL PARTS REQUIRED TO BE BONDED TOGETHER. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A COPPER CONDUCTOR GRID SYSTEM SHALL BE INSTALLED, WITH MINIMUM #8 AWG BARE SOLID CONDUCTORS BONDED AT ALL CROSS POINT, CONFORM TO THE CONTOUR OF THE POOL, BE ARRANGED IN A 12" X 12" GRID PATTERN, AND BE SECURED WITHIN OR UNDER THE POOL NO MORE THAN 6" FROM THE OUTER CONTOUR OF THE POOL.
4.	BONDING TO PERIMETER SURFACES SHALL BE ACCOMPLISHED WITH REINFORCING STEEL REBAR BONDED WITH STEEL TIE WIRES, OR EQUAL. WHERE EPOXY-COATED REBAR IS UTILIZED, THEN A SINGLE #8 AWG COPPER, BARE, SOLID CONDUCTOR SHALL BE INSTALLED 18" TO 24" WITHIN THE INSIDE WALL OF THE POOL, AND WITHIN 4" TO 6" UNDER THE SURFACE.
5.	ISOLATED PARTS THAT ARE NOT MORE THAN 4" IN ANY DIMENSION AND DO NOT GENETRATE INTO THE POOL STRUCTURE MORE THAN 1" SHALL NOT REQUIRE BONDING.
6.	BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID COPPER, INSULATED. E.C. SHALL COORDINATE APPROVED CONNECTOR TYPE AND METHOD WITH LOCAL ELECTRICAL AND/OR POOL INSPECTOR.
7.	SPECIFIC MANUFACTURER'S INSTRUCTIONS REGARDING BONDING OR GROUNDING OF POOL EQUIPMENT, WHETHER INDICATED HEREIN OR NOT, SHALL BE STRICTLY FOLLOWED.
8.	THE COMMON BONDING GRID SHALL NOT BE CONNECTED TO ANY ELECTRICAL DISTRIBUTION EQUIPMENT.
9.	ANY PARTS IN ADDITION TO THOSE DESCRIBED HEREIN THAT ARE INDICATED BY POOL CONTRACTOR OR LOCAL INSPECTION AUTHORITY SHALL BE BONDED TO THE COMMON BONDING GRID WITH NO ADDITIONAL COSTS INCURRED BY THE OWNER.
10.	ROPE ANCHORS WHICH ARE ATTACHED TO A STAINLESS STEEL GUTTER ARE INTERNALLY BONDED TO GUTTER AND SO DO NOT REQUIRE ADDITIONAL BONDING.
11.	THE ELECTRICAL CONTRACTOR SHALL COORDINATE BONDING WITH POOL CONTRACTOR AND GENERAL CONTRACTOR.
12.	THE FOLLOWING PARTS SHALL BE BONDED TOGETHER AND CONNECTED TO THE COMMON BONDING GRID. BONDING LUGS SHALL BE SUPPLIED BY POOL CONTRACTOR. A. ALL METALLIC PARTS OF THE POOL STRUCTURE, INCLUDING COPYING STONES, DECK, PERMANENT PLAY STRUCTURES, PERMANENT EXERCISE STRUCTURES. B. ALL METAL FITTINGS WITHIN OR ATTACHED TO THE POOL STRUCTURE. C. METAL PARTS ASSOCIATED WITH THE POOL WATER CIRCULATING SYSTEM, INCLUDING PUMPS, FILTERS, AND HEATERS. D. METAL PARTS ASSOCIATED WITH POOL COVERS. E. METAL SHEATHED CABLES AND RACEWAYS, METAL PIPING, AND ALL FIXED METAL PARTS WITHIN 5 FEET HORIZONTALLY OF INSIDE WALLS OF POOL AND WITHIN 12 FEET ABOVE THE MAXIMUM WATER LEVEL OF THE POOL. F. METAL PARTS ASSOCIATED WITH OBSERVATION STANDS, TOWERS, PLATFORMS, AND DIVING STRUCTURES. G. METAL PARTS ASSOCIATED WITH THE POOL SLIDE TOWER, SLIDE STAIRS, AND ASSOCIATED SLIDE STRUCTURE.



1 | POOL BONDING DETAIL
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1	7/11/2025									
2		10/14/2025								
3			01/13/2026							

ELECTRICAL COVER SHEET

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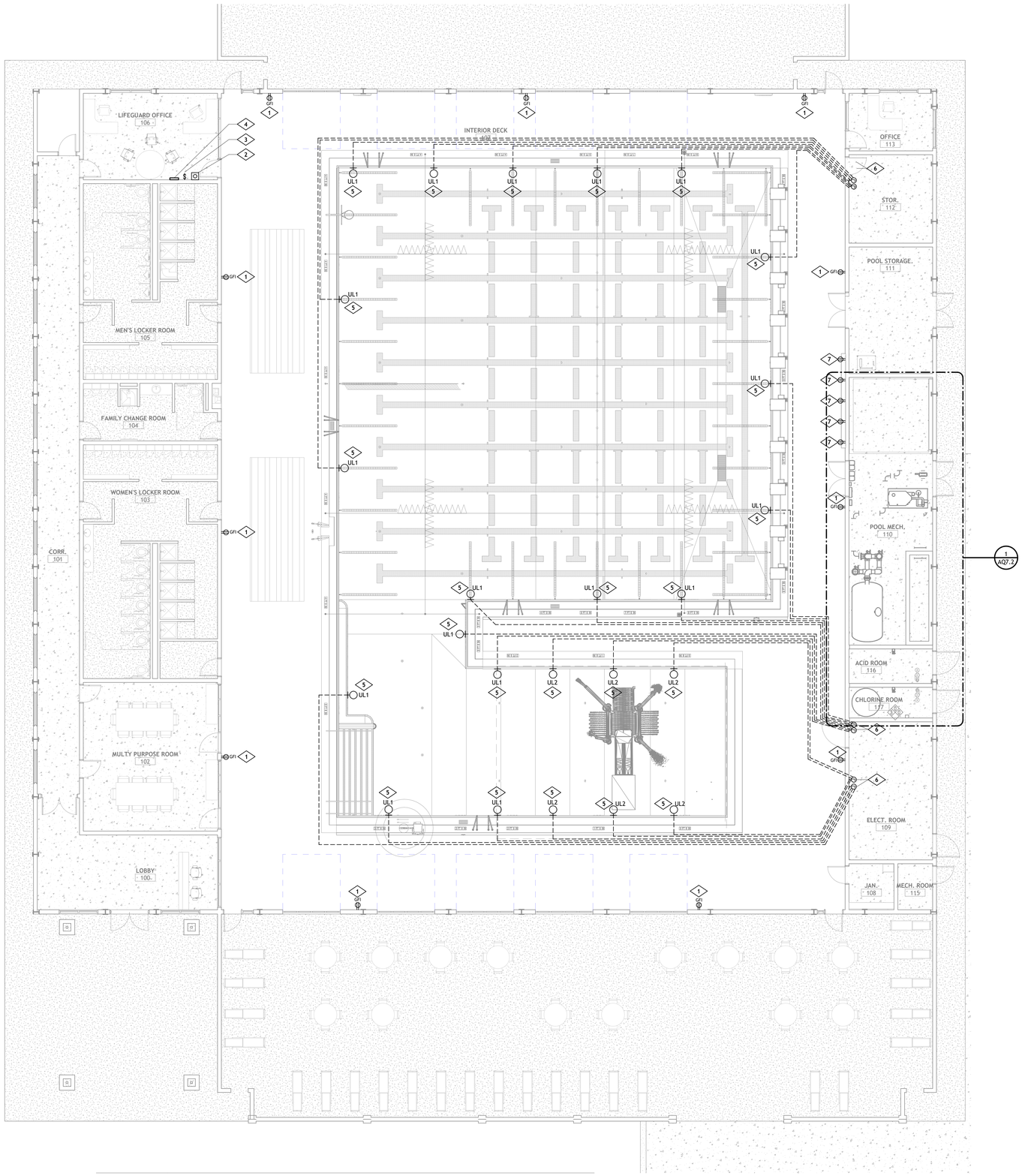

1 | POOL ELECTRICAL PLAN
AQ7.1 | 1/8" = 1'-0"

POWER GENERAL NOTES

A.	ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANT.
B.	EQUIPMENT AT POOL DECK AREAS SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL #1 ON SHEET AQ7.0. FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL INFORMATION.
C.	REFER TO BUILDING ELECTRICAL ENGINEERING DRAWINGS (E-SERIES SHEETS) FOR ADDITIONAL ELECTRICAL REQUIREMENTS AND INFORMATION, INCLUDING ELECTRICAL ONE-LINE DIAGRAM AND CIRCUITING.
D.	ALL WIRING ROUTED WITHIN POOL EQUIPMENT ROOM SHALL BE WITHIN SCHEDULE 80 PVC CONDUIT.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EC SHALL PROVIDE NEMA 5-20R, 5MA CLASS A GFCI, DUPLEX RECEPTACLE FOR CORD & PLUG POWER CONNECTION TO PORTABLE POOL VACUUM SYSTEM AND ROBOTIC VACUUM CLEANER CHARGING STATION USE.
2	EC SHALL PROVIDE WALL MOUNTED EMERGENCY POWER OFF (EPO) PUSH BUTTON AT 48" A.F.F. FOR EMERGENCY SHUTOFF OF POWER TO RECIRCULATION PUMPS PP1 AND PP2, AND FEATURE PUMP PP3 PER NEC ARTICLE 680. PROVIDE AUXILIARY CONTACTS AT EACH PUMP VFD TO CONNECT TO EPO SWITCH. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
3	PACE CLOCK SYSTEM POWER SWITCH PROVIDED BY PC. EC SHALL INSTALL PACE CLOCK SYSTEM POWER SWITCH AT 48" A.F.F. AND SHALL PROVIDE INTERCONNECTION FROM SWITCH TO PACE CLOCKS PER APPROVED PACE CLOCK MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
4	EC SHALL PROVIDE WALL MOUNTED REMOTE START/STOP SWITCH 48" A.F.F. FOR START/STOP CONTROL OF FEATURE PUMP PP3. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
5	LOCATION OF POOL WET NICHE FOR UNDERWATER LIGHT FIXTURE INSTALLATION BY THE POOL CONTRACTOR (PC), AND BONDED BY THE ELECTRICAL CONTRACTOR (EC) PER NEC ARTICLE 680. WET NICHE COMPLIANT UNDERWATER LIGHTING FIXTURE WITH CORD ATTACHED, SHALL BE FURNISHED BY THE PC AND INSTALLED BY THE EC. THE COMPLETE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF NEC ARTICLE 680. SEE UNDERWATER LIGHT FIXTURE SCHEDULE ON AQ7.2 FOR ADDITIONAL INFORMATION AND INSTALLATION REQUIREMENTS.
6	LOCATION OF ABOVE GROUND JUNCTION BOX FOR CONNECTION TO WET NICHE UNDERWATER LUMINAIRES. JUNCTION BOX SHALL BE SIZED FOR NUMBER OF LUMINAIRES SERVED AND FOR THEIR 120V/12V TRANSFORMERS. JUNCTION BOX SHALL BE CORROSION RESISTANT, AND LISTED FOR POOL USE. LOCATE JUNCTION BOX A MINIMUM OF 18" ABOVE NORMAL POOL WATER LEVEL, WITH A MAXIMUM DISTANCE OF 250FT FROM THE ASSOCIATED WET NICHES, AS INDICATED ON PLANS. INSTALLATION SHALL COMPLY WITH NEC ARTICLE 680. EC SHALL COORDINATED EXACT LOCATION OF THE JUNCTION BOX WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
7	EC SHALL PROVIDE DEDICATED RECEPTACLE FOR VIDEOBOARD. COORDINATE EXACT LOCATION AND MOUNTING WITH APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN.

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POOL ELECTRICAL PLAN

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	VOLTAGE	LAMP QUAN.	LAMP WATTAGE	LAMP / CCT / CRI	MAX WATTAGE	LUMEN OUTPUT	DIMMING CAPABILITY	FIXTURE FINISH	SUSTAINABILITY	MOUNTING	BOF/RFD/OFH	NOTES
UL1	POOL WET NICHE LOW VOLTAGE LIGHT FIXTURE.			12 V	1	31 W		31 VA							
UL2	POOL WET NICHE LOW VOLTAGE LIGHT FIXTURE.			12 V	1	15 W		15 VA							

POOL EQUIPMENT SCHEDULE

KEY		EQUIPMENT DESCRIPTION	LOAD	ELECTRICAL	MOCP	FEEDER	DISCONNECT	PANEL	CIRCUIT	NOTES
CC	1	CHEMICAL CONTROLLER	--	120 V/1-0 VA	20A	2#12, 1#12G, 3/4"C	30A/1P			
CF	1	SODIUM HYPOCHLORITE FEED PUMP	SEE "CC1"	120 V/1-0 VA	20A	2#10, 1#10G, 3/4"C	NEMA 5-20R			
CF	2	ACID FEED PUMP	SEE "CC1"	120 V/1-0 VA	20A	2#10, 1#10G, 3/4"C	NEMA 5-20R			
CF	3	CO2 FEED PUMP	SEE "CC1"	120 V/1-0 VA	20A	2#10, 1#10G, 3/4"C	NEMA 5-20R			
E	1	FLOCCULATION SYSTEM	5.4 W	120 V/1-5 VA	20A	2#12, 1#12G, 3/4"C	NEMA 5-20R			
H1	A1	HEATER	10A	120 V/1-1200 VA	20A	2#12, 1#12G, 3/4"C	30A/1P			
H1	A2	HEATER	10A	120 V/1-1200 VA	20A	2#12, 1#12G, 3/4"C	30A/1P			
PP	1	POOL RECIRC. PUMP	40 HP	480 V/3-43230 VA	90A	3#2, 1#8G, 1-1/4"C	100A/3P			
PP	2	POOL RECIRC. PUMP	40 HP	480 V/3-7200 VA	90A	3#2, 1#8G, 1-1/4"C	100A/3P			
PP	3	POOL RECIRC. PUMP	10 HP	480 V/3-11639 VA	25A	3#10, 1#10G, 3/4"C	30A/3P			
U	1L	UV TREATMENT 0 - LAMPS	2.5 KW	208 V/1-0 VA	--	SEE NOTE	--			1,2,3
U	1P	UV TREATMENT 0 - CONTROL CABINET	5 KW	208 V/1-5000 VA	35A	2#8, 1#10G, 1"C	60A/2P			1,2,3
VFD	1	VARIABLE FREQUENCY DRIVE	--	0 V/3-0 VA	--	--	--			
VFD	2	VARIABLE FREQUENCY DRIVE	--	0 V/3-0 VA	--	--	--			
WLC	1	WATER LEVEL CONTROLLER	0.75 A	120 V/1-90 VA	20A	2#12, 1#12G, 3/4"C	30A/1P			

POOL EQUIPMENT GENERAL NOTES

A.	PROVIDE 120V CONTROL WIRING AS REQUIRED PER POOL EQUIPMENT SCHEDULE ON POOL DRAWINGS.
B.	REFER TO POOL DRAWINGS FOR EQUIPMENT LOCATIONS.
C.	FIELD VERIFY ALL EQUIPMENT LOADS, VOLTAGES, AND RECOMMENDED FUSE SIZING PRIOR TO ENERGIZING CIRCUIT.
D.	THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL AQUATICS PLANS AND PROVIDE ALL WORK AS CALLED OUT TO BE COMPLETED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH POOL CONTRACTOR.
E.	ALL DISCONNECTS SHALL BE NEMA 4X RATED WITH NON-METALLIC ENCLOSURE AND STAINLESS STEEL HARDWARE FOR CORROSION RESISTANCE.
F.	MOTORS REQUIRING STARTERS SHALL UTILIZE COMBINATION START/DISCONNECT. STARTERS SHALL BE NON-REVERSING WITH NEMA SIZE AS LISTED. ALL STARTERS SHALL UTILIZE CIRCUIT BREAKERS FOR OVERCURRENT PROTECTION.
G.	PROVIDE FLEXIBLE CONDUIT CONNECTION AT ALL PUMP MOTORS, MINIMUM 18" IN LENGTH.
H.	WHERE MOTOR IS WITHIN SIGHT (PER THE DEFINITION OF THE NEC) OF THE MCC, THE INDICATED DISCONNECT SWITCH IS NOT REQUIRED.
I.	ALL MOTORS GREATER THAN 7.5 HORSEPOWER ARE TO BE PROVIDED WITH PHASE LOSS PROTECTION.
J.	ELECTRICAL CONTRACTOR SHALL REFERENCE POOL WIRING DIAGRAMS AND SEQUENCE OF OPERATIONS FOR INTERLOCKS PROVIDED ON THE AQUATIC DESIGNERS DRAWINGS.
K.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE VARIABLE FREQUENCY DRIVE AS INDICATED IN THE POOL EQUIPMENT SCHEDULE PER THE FOLLOWING SPECIFICATIONS. a. MANUFACTURER SHALL BE: ABB, ALLEN BRADLEY, OR APPROVED EQUAL. b. VFD UNIT ENCLOSURE SHALL BE NEMA-12 RATED. c. UNIT SHALL BE PROVIDED WITH MANUAL SPEED ADJUSTMENT VIA KEYPAD OR DIAL MOUNTED ON THE ENCLOSURE'S EXTERIOR. d. UNIT SHALL BE PROVIDED WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO EXTERNAL RELAY(S) AND EQUIPMENT. e. UNIT SHALL BE PROVIDED WITH MANUFACTURER'S PERFORMED FIELD TEST OF DRIVE. f. UNIT SHALL BE PROVIDED WITH OWNER OPERATIONAL AND MAINTENANCE TRAINING OF DEVICE. g. UNIT SHALL BE SUITABLE FOR OPERATING ENVIRONMENT FROM 0 DEGREES TO 40 DEGREES CELCIUS, AND HUMIDITY UP TO 90% NON-CONDENSING. h. PROVIDE VFD WITH CAPABILITY OF 30 SECOND RAMP UP TO FULL SPEED AND 5 SECOND RAMP DOWN FROM FULL SPEED TO ZERO FOR ALL APPLICATIONS USING FILTRATION SYSTEM WITH REGENERATIVE MEDIA FILTER. COORDINATE LOCATIONS WITH POOL CONTRACTOR. i. PROVIDE VFD WITH REQUIRED NUMBER OF OUTPUTS FOR CONNECTION TO ALL EXTERNAL RELAY(S) AND EQUIPMENT AS REQUIRED BY THE POOL CONTRACTOR'S DRAWING.
L.	PROVIDE CLEARLY LABELED EMERGENCY SHUTOFF BUTTONS FOR THE PURPOSE OF STOPPING THE MOTORS THAT PROVIDE POWER TO ALL NON-FILTRATION PUMPS PER POOL ENGINEER. EMERGENCY SHUTOFF BUTTON LOCATIONS SHALL BE COORDINATED WITH THE OWNER OR THE OWNER'S RISK MANAGEMENT CONSULTANT.
M.	PROVIDE CLEARLY LABELED EMERGENCY POWER OFF (EPO) SWITCH(ES) FOR EMERGENCY SHUTDOWN OF ALL POOL WATER HEATER/BOILER SYSTEMS AS REQUIRED BY CODE. EPO SWITCH LOCATIONS SHALL BE AT EACH EGRESS DOOR LEADING FROM THE ROOM HOUSING THE POOL WATER HEATER SYSTEM(S) AND SHALL BE COORDINATED WITH THE POOL ENGINEER AND OWNER'S RISK MANAGEMENT CONSULTANT.

POOL EQUIPMENT SPECIFIC NOTES

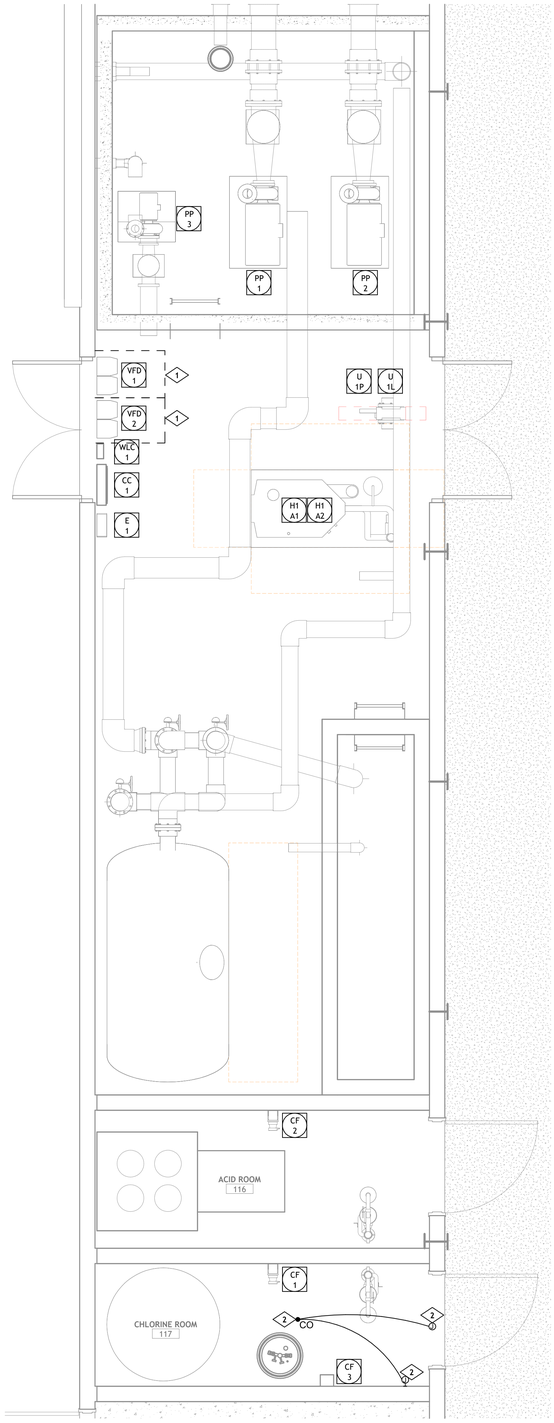
1.	LOW VOLTAGE CONTOL WIRING CONNECTIONS ARE REQUIRED BETWEEN THE PUMP VFD'S, FILTRATION SYSTEM, WATER CHEMISTRY CONTROLLER, UV TREATMENT SYSTEM, ACID FEED SYSTEM, FLOW METER, HEATING SYSTEM, ACTIVITY FEATURE SYSTEM, AND DEHUMINDIFICATION SYSTE, FOR AUTOMATION AMONG POOL EQUIPMENT. CONDUIT SHALL BE PROVIDED BY EC. ALL LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY PC. REFER TO PL-SERIES DRAWINGS FOR ADDITIONAL INFORMATION.
2.	EC SHALL PROVIDE MINIM OF 1-1/2" CONDUIT FOR LAMP POWER CORD FROM CONTROL CABINET TO CHAMBER. LAMP POWER CORDS PROVIDED WITH UV SYSTEM, INSTALLED BY EC.
3.	EC SHALL PROVIDE MINIM OF 1" CONDUIT FOR LOW VOLTAGE CABLING FROM CONTROL CABINET TO CHAMBER.

POWER GENERAL NOTES

A.	ALL DEVICES WITHIN POOL DECK AND POOL AREAS SHALL BE CORROSION RESISTANT.
B.	EQUIPMENT AT POOL DECK AREAS SHALL BE BONDED AS REQUIRED BY NEC. REFER TO DETAIL #1 ON SHEET AQ7.0. FOR MORE INFORMATION AND SPECIFIC REQUIREMENTS. REFER TO E-SERIES SHEETS FOR ADDITIONAL INFORMATION.
C.	REFER TO BUILDING ELECTRICAL ENGINEERING DRAWINGS (E-SERIES SHEETS) FOR ADDITIONAL ELECTRICAL REQUIREMENTS AND INFORMATION, INCLUDING ELECTRICAL ONE-LINE DIAGRAM AND CIRCUITING.
D.	ALL WIRING ROUTED WITHIN POOL EQUIPMENT ROOM SHALL BE WITHIN SCHEDULE 80 PVC CONDUIT.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	DEDICATED ELECTRICAL SPACE FOR WALL AREA MOUNTING OF COMBINATION VFD/MOTOR/STARTER EQUIPMENT. REFER TO POOL EQUIPMENT SCHEDULE, SHEET AQ7.2, FOR MORE INFORMATION. SIZING INDICATED PER BASIS OF DESIGN PRODUCT FOR LARGEST HORSEPOWER. FINAL SPACING SHALL BE COORDINATED WITH FINAL APPROVED SHOP DRAWINGS. DEDICATED CLEARANCE SHALL BE MAINTAINED PER THE NEC. UNITS SHALL BE MOUNTED WITHIN SIGHT OF THE PUMP THEY SERVE.
2	EC SHALL INSTALL ALL COMPONENTS OF THE CARBON DIOXIDE MONITORING SYSTEM, WHICH SHALL BE FURNISHED BY POOL CONTRACTOR. CARBON DIOXIDE MONITORING SYSTEM SHALL INCLUDE CO2 SENSORS, LCD SCREEN, AUDIBLE ALARMS AND OUTPUT CAPABILITIES, BASIS OF DESIGN IS ANALOX AX60- MODEL. COMPONENT LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.



1 | POOL EQUIPMENT ROOM ELECTRICAL PLAN
AQ7.2 | 3/8" = 1'-0"

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POOL EQUIPMENT ROOM ELECTRICAL PLAN

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STRUCTURAL NOTES

GENERAL

GN-1 ALL DETAILS ARE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.

GN-2 THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL HOLES AND SLEEVES THROUGH WALLS AND SLABS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS. ALL PLUMBING AND MECHANICAL PENETRATIONS THROUGH WALLS AND SLABS SHALL BE PROPERLY SLEEVED. PENETRATIONS EXCEEDING, ROADS, JOISTS, OR COLUMNS IS PROHIBITED. PLUMBING AND CONDUITS SHALL NOT BE INSTALLED BELOW FOOTINGS WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC.

GN-3 THE STRUCTURE AS SHOWN IN THESE DRAWINGS IS STABLE UNDER THE FINAL CONDITION. THE STRUCTURE IS DESIGNED FOR THE IN-SERVICE LOADS ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE STRUCTURAL STABILITY DURING CONSTRUCTION. SEQUENCE OF CONSTRUCTION, SHORING, AND MEANS AND METHODS SHALL BE DETERMINED BY THE CONTRACTOR.

GN-4 NON-LOAD BEARING ELEMENTS SHALL BE CONNECTED TO THE STRUCTURE BY METHODS THAT ALLOW VERTICAL DEFLECTION OF THE STRUCTURE. ALLOWABLE DEFLECTIONS OF THE STRUCTURE SHALL BE THE MAXIMUM OF EITHER A HALF INCH OR THE L/ STRUCTURAL SPAN DIVIDED BY 360.

GN-5 NOTCHING, CUTTING OR MODIFYING STRUCTURAL ELEMENTS IN THE FIELD IS PROHIBITED.

GN-6 THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

GN-7 THE ATTACHMENT OF ROOF TOP EQUIPMENT TO THE STRUCTURE SHALL BE INSTALLED PER DESIGNS PROVIDED BY THE MANUFACTURER. THE MANUFACTURER SHALL CERTIFY THAT THE ATTACHMENTS MEET BOTH DESIGN TO WITHSTAND LOADS BASED ON THE DESIGN CRITERIA LISTED BELOW.

DESIGN CRITERIA

DC-1 THE STRUCTURAL DESIGN WAS COMPLETED IN ACCORDANCE WITH THE FOLLOWING CODES:
IBC 2021
ASCE 7-16
ACI 318-14
ACI 530-13/ASCE 5-11/TMS 402-13
AISC 360 – MANUAL OF STEEL CONSTRUCTION 14TH EDITION
AISC 341-16 + SEISMIC DESIGN MANUAL
AWS/AWPA WCD-2015 – NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
AND NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2012 EDITION
AWS D1.8 AMERICAN WELDING SOCIETY – STRUCTURAL WELDING CODE – REINFORCING STEEL 2017 EDITION

DC-2 DEAD LOAD ARE CALCULATED IN ACCORDANCE WITH CHAPTER 3 OF THE ASCE 7-16.

DC-3 LIVE LOADS ARE CALCULATED IN ACCORDANCE WITH CHAPTER 4 OF THE ASCE 7-16 AS FOLLOWS:

OCCUPANCY OR USE	UNIFORM (psf.)	CONCENTRATED (lbs.)
ROOF	20	300
TYPICAL FLOOR	100	2,000
MECHANICAL ROOMS TYPICAL	150	EQUIPMENT WT.
AWNINGS AND CANOPIES	20	N/A

DC-4 WIND PRESSURES SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 26-31 OF THE ASCE 7-16 AS FOLLOWS:

RISK CATEGORY	III
WIND VELOCITY	112 MPH
DIRECTIONAL FACTORS (Kd)	0.85 WFRS 0.85 COMPONENTS
TOPOGRAPHIC FACTOR (Kzt)	1.00
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	±0.18

DC-5 SNOW LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 7 OF THE ASCE 7-16 AS FOLLOWS:

RISK CATEGORY	III
GROUND SNOW (pg)	4 PSF
EXPOSURE FACTOR (Ce)	0.90
THERMAL FACTOR (Ct)	1.2
IMPORTANCE FACTOR	1.00

DC-6 SEISMIC LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 11 AND 12 OF THE ASCE 7-10 AS FOLLOWS:

RISK CATEGORY	III
MAPPED MCE	Ss=0.071 S1=0.104
SPECTRAL RESPONSE COEFFICIENT	SDs=0.227 SD1=0.165
SITE CLASSIFICATION	D
IMPORTANCE FACTOR	1.00
SEISMIC DESIGN CATEGORY	C
ANALYSIS PROCEDURE	EQUIVALENT FORCE METHOD
NONFORCE RESISTING SYSTEM	A.9
RESPONSE MODIFICATION FACTOR (R)	3.50
SYSTEM OVERSTRETCH FACTOR (Ω)	2.50
DEFLECTION AMPLIFICATION FACTOR (Cd)	2.25
SEISMIC RESPONSE COEFFICIENT (Cs)	0.1168

SHOP DRAWINGS

SD-1 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION AS REQUIRED BY THE SPECIFICATIONS AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING SUBMITTALS:
STRUCTURAL FILL AND EARTHWORK
STRUCTURAL STEEL
REINFORCING STEEL
CONCRETE MIX DESIGNS
MASONRY GROUT MIX DESIGN
CONCRETE MASONRY UNIT PRODUCT DATA
MASONRY TRUSS TYPE JOINT REINFORCING PRODUCT DATA
METAL DECK
STEEL JOISTS & JOIST GIRDERS
WELDING PROCEDURES AND WELDING CERTIFICATIONS
LIGHT GAGE FRAMING PRODUCT DATA
PRODUCT DATA FOR CONCRETE INSERTS
PRODUCT DATA FOR POWER ACTUATED FASTENERS
PRODUCT DATA FOR CONCRETE EXPANSION ANCHORS

SD-2 REVIEWS BY THE ARCHITECT/ENGINEER SHALL BE FOR GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS ONLY. MODIFICATIONS, COMMENTS AND INFORMATION PROVIDED BY THE ARCHITECT/ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

SD-3 THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DIMENSIONS OF JOB SITE AND COORDINATING THEM WITH THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER.

SD-4 THE FABRICATION AND CONSTRUCTION PROCESS, MEANS AND METHODS OF CONSTRUCTION, AND COORDINATING ALL TRADES FOR PERFORMING THE WORK IN A SAFE AND SATISFACTORY METHOD SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

SD-5 REPRODUCTION OF CONSTRUCTION DOCUMENTS AS PART OF THE SHOP DRAWINGS IS PROHIBITED. THE SHOP DRAWINGS SHALL BE INDEPENDENTLY PRODUCED DRAWINGS BASED ON THE CONSTRUCTION DOCUMENTS. USE OF ELECTRONIC FILES PROVIDED BY STUBBS ENGINEERING, INC. TO GENERATE SHOP DRAWINGS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC. IF ELECTRONIC DRAWINGS PRODUCED BY THE STUBBS ENGINEERING, INC. ARE USED IN THE PRODUCTION OF THE SHOP DRAWINGS, ANY COMPANY LOGOS, TITLE BLOCKS AND SEALS SHALL BE REMOVED FROM THE SUBMITTAL.

SD-6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS DUE TO REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS.

SD-7 SHOP DRAWINGS SUBMITTED WITHOUT PRIOR REVIEW BY THE GENERAL CONTRACTOR SHALL NOT BE REVIEWED BY THE ENGINEER.

SD-8 REQUESTS FOR SUBSTITUTION SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS. SUBSTITUTIONS SHALL NOT BE IMPLEMENTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.

FOUNDATION

FND-1 THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE SOIL, WATER AND SITE CONDITIONS DESCRIBED IN THE SOILS REPORT PRIOR TO BIDDING THE PROJECT. SOILS BORINGS AND CONDITIONS DESCRIBED IN THE SOILS REPORT ARE FOR GENERAL INFORMATION PURPOSES ONLY. THE ACTUAL CONDITIONS MAY VARY AT THE SITE.

FND-2 ALL EARTHWORK AND SITE PREPARATION SHALL BE IN COMPLIANCE WITH THE GEOTECHNICAL REPORT PREPARED BY CGE ENGINEERING, LLC, DATED AUGUST 7, 2025. THE GEOTECHNICAL ENGINEER'S PROJECT NUMBER IS 4225107. ADDITIONAL INFORMATION IS CONTAINED IN THE GEOTECHNICAL REPORT.

FND-3 THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT TO PROVIDE A MINIMUM ALLOWABLE BEARING PRESSURE OF 2,000 PSF.

FND-4 REMOVE ALL BRUSH, RUBBISH, AND VEGETATION MATERIAL FROM THE BUILDING PAD PRIOR TO EXCAVATION.

FND-5 THE SITE SHALL BE OVEREXCAVATED TO ALLOW FOR A MINIMUM OF 3 FEET OF STRUCTURAL SELECT FILL BELOW ALL FOOTINGS AND A MINIMUM OF 2 FEET OF STRUCTURAL SELECT FILL BELOW ALL SLABS ON GRADE. OVEREXCAVATION SHALL EXTEND A MINIMUM OF 5 FEET BEYOND THE EXTENT OF THE BUILDING PAD. REFERENCE DETAIL A / S-100 FOR TYPICAL SUBGRADE PREPARATION.

FND-6 NATIVE SOILS BELOW STRUCTURAL SELECT FILL SHALL BE SCARIFIED TO A DEPTH OF 10 INCHES. THE NATIVE SOILS SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95% PER THE MODIFIED PROCTOR (ASTM D1557) AT A MOISTURE CONTENT OF +/- 2% OPTIMUM. WEAK OR COMPRESSIBLE NATIVE SOILS IDENTIFIED DURING EARTHWORK SHALL BE REMOVED AND REPLACED WITH STRUCTURAL SELECT FILL PER THE REQUIREMENTS FOR STRUCTURAL FILL.

FND-7 STRUCTURAL SELECT FILL SHALL BE FREE OF ROCKS, ROOTS, VEGETABLE MATTER, CLAY CLUMPS OR ROCKS GREATER THAN 3 INCHES IN ANY DIMENSION. STRUCTURAL SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS:
NO EXPANSIVE MATERIAL
MAXIMUM LIQUID LIMIT (ASTM D4318): 30
MAXIMUM PLASTIC INDEX (ASTM D4318): 15
MAXIMUM SOLUBLE SULFATE CONCENTRATIONS: 1,000 MG/KG
GRADATION (ASTM D422)

SIEVE SIZE	PERCENT PASSING
4-INCH	100%
3/4-INCH	70-100%
NO. 4	30-70%
NO. 200	5-25%

FND-8 PLACE ALL STRUCTURAL SELECT FILL IN 10 INCH MAXIMUM LOOSE LIFTS, MOISTEN TO A MOISTURE CONTENT OF +/- 2% OPTIMUM MOISTURE CONTENT AND COMPACT TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY.

FND-9 ALL EARTHWORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER TO ENSURE ALLOWABLE BEARING PRESSURE IS MET, THERE IS A LOW SETTLEMENT POTENTIAL AND THE ABSENCE OF EXPANSIVE MATERIAL. TESTING SHALL BE PERFORMED AT THE FOLLOWING MINIMUM RATES. THE GEOTECHNICAL ENGINEER MAY DETERMINE MORE STRINGENT TESTING IF REQUIRED:
- ONE MOISTURE-DENSITY CURVE, IN ACCORDANCE WITH ASTM D1557, FOR EACH TYPE OF STRUCTURAL SELECT FILL OR EACH SOURCE OF STRUCTURAL FILL USED FOR THE PROJECT.
- ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D1556, D2167 OR D2922, PER EACH 2,500 SQUARE FEET OF COMPACTED NATIVE SUBGRADE PRIOR TO PLACING STRUCTURAL SELECT FILL OR FLOOR SLAB. PROVIDE A MINIMUM OF THREE TESTS.
- EACH HORIZONTAL LIFT OF STRUCTURAL SELECT FILL SHALL BE TESTED WITH ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D1556, D2167 OR D2922, PER EACH 2,500 SQUARE FEET AND 100 FEET OF CONTINUOUS FOOTING WITH A MINIMUM OF THREE TESTS.

FND-10 VAPOR BARRIERS SHALL BE PLACED DIRECTLY BELOW ALL SLABS ON GRADE BETWEEN THE SLAB AND THE SUBGRADE. THE VAPOR BARRIER SHALL HAVE A MINIMUM THICKNESS OF 10 MILS AND SHALL MEET THE REQUIREMENTS OF ASTM E1745 WITH A WATER VAPOR PERMEANCE LESS THAN 0.030 PERMS. CONTRACTOR SHALL LAP AND SEAL ALL EDGES. PUNCTURES AND PENETRATIONS SHALL BE SEALED AND REPAIR PER THE MANUFACTURER'S RECOMMENDATIONS.

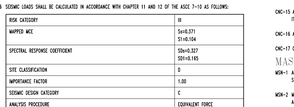
FND-11 CONSTRUCTION JOINTS IN FOOTINGS AND STEM WALL CAN BE PLACED AT CONTRACTOR'S OPTION. FOOTINGS AND STEM WALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL A / S-400.

FND-12 SAW CUT CONTROL JOINTS AS INDICATED ON PLANS WITHIN 12 HOURS OF PLACING CONCRETE.

LIGHT GAGE FRAMING (18ga AND HEAVIER)

LG-1 STRUCTURAL LIGHT GAGE FRAMING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AISI "SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS", 7TH EDITION

LG-2 LIGHT GAGE FRAMING MEMBERS SHALL COMPLY WITH THE "THE STEEL STUD MANUFACTURERS ASSOCIATION" DESIGNATION CALL OUTS.



LG-3 EXTERIOR AND LOAD BEARING LIGHT GAGE STUD WALLS SHALL HAVE BRIDGING AT A MAXIMUM SPACING OF 4'-0" O.C. BRIDGING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS & MEET THE REQUIREMENTS OF DETAIL A / S-500 .

LG-4 SECURE ALL STUDS TO TOP AND BOTTOM TRACKS WITH A MINIMUM OF 1-NO. 8 SCREW EACH SIDE.

LG-5 ALL WELDING OF MATERIAL LESS THAN 3/16" IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3. WELDERS AND WELDING PROCEDURES SHALL BE SHALL BE QUALIFIED BY AWS D1.3.

LG-6 SPLICING STRUCTURAL LIGHT GAGE MEMBERS SHALL NOT BE ALLOWED.

LG-7 LIGHT GAGE STRAPS SHALL MATCH THE WIDTH AND THICKNESS SHOWN ON PLANS. STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 50 KSI. STRAPS SHALL BE GALVANIZED WITH A MINIMUM G60 FINISH.

LG-8 NON LOAD BEARING EXTERIOR STUDS SHALL BE ATTACHED TO PERIMETER ANGLE WITH A SLIDE CLIP PER DETAIL 5 / S-500 .

LG-9 ALL LIGHT GAGE STUDS AND TRACKS SHALL HAVE A G90 FINISH

CONCRETE

CNC-1 ALL CONCRETE SHALL BE PROPORTIONED, CONSTRUCTED AND CONFORM TO THE SPECIFICATION OF ACI 301-16. CONCRETE DESIGN SHALL CONFORM TO ACI 318-14.

CNC-2 PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE V.

CNC-3 FLY ASH SHALL NOT BE USED IN ARCHITECTURALLY EXPOSED CONCRETE, TILTWALLS OR SLABS ON GRADE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO A MAXIMUM OF 20% OF THE CEMENT CONTENT. THE MIX DESIGN SHALL INDICATE THAT THE FLY ASH SHALL NOT ADVERSELY EFFECT THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WIT THE CONCRETE.

CNC-4 CONCRETE SHALL BE PROPORTIONED TO THE FOLLOWING REQUIREMENTS:

LOCATION	f'c AT 28 DAYS	MAX SIZE AGGREGATE	SLUMP	AIR CONTENT	CONCRETE TYPE	MAXIMUM WATER TO CEMENT RATIO
FOOTINGS	5,000 PSI	1 – INCH	3 – 5 INCH	0 – 5%	NORMAL WEIGHT	0.40
STEM WALLS, BEAMS, AND ELEVATED SLABS	5,000 PSI	3/4 – INCH	4 – 8 INCH	0 – 5%	NORMAL WEIGHT	0.40
SLAB ON GRADE	5,000 PSI	3/4 – INCH	4 – 6 INCH	NONE	NORMAL WEIGHT	0.40

CONCRETE SHALL BE PROPORTIONED TO EXCEED 75% OF THE 28-DAY STRENGTH IN 7 DAYS.

CNC-5 CONCRETE REINFORCING STEEL AND EMBEDS SHALL HAVE THE FOLLOWING PROPERTIES:

TYPE	DESIGNATION ON PLAN	ASTM	YIELD STRENGTH	NOTES
REBAR		A615	60 KSI	NOT WELDABLE
WELDED WIRE REINF.	WWF	A185	60 KSI	FLAT SHEETS ONLY
DEFORMED BAR ANCHORS	DBA	A496	60 KSI	WELDABLE
HEADED ANCHOR STUDS	HAS	A108, B	70 KSI	

CNC-6 UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FOR THE FACE OF CONCRETE FORMS TO THE REINFORCING STEEL SHALL BE:

CONDITION	CLEAR DISTANCE	NOTES
CONCRETE CAST AGAINST EARTH OR WATER	3 – INCH	EXCLUDES SLABS ON GRADE
CONCRETE CAST TO FORMS EXPOSED TO EARTH, WATER OR WEATHER	2 – INCH	NO. 6 BAR AND LARGER
	1 1/2 – INCH	NO. 5 BAR AND SMALLER
CONCRETE CAST TO FORMS NOT EXPOSED TO EARTH, WATER OR WEATHER	1 – INCH	SLABS AND JOISTS
	1 1/2 – INCH	BEAMS, COLUMNS, & WALLS
SLABS ON GRADE	2 – INCH	FROM BOTTOM SURFACE
	1 1/2 – INCH	FROM TROWELED SURFACE
	3/4 – INCH	FROM SCREED SURFACE

CNC-7 REINFORCING DETAILING AND PLACEMENT SHALL BE IN COMPLIANCE WITH ACI 315-08.

CNC-8 ALL REBAR SHALL BE SPLICED IN ACCORDANCE WITH DETAIL 1 / S-100 AND STANDARD HOOK SHALL BE PROVIDED PER DETAIL 2 / S-100 . MESH REINFORCING SHALL BE SPLICED IN ACCORDANCE WITH DETAIL 5 / S-400 .

CNC-9 ALL REBAR AND REINFORCING MESH SHALL BE CHAIRED TO PROVIDE REQUIRED COVER AND SUPPORT THE REINFORCING ADEQUATELY TO PREVENT ACCIDENTAL DISPLACEMENT. CHAIRS FOR SLABS ON GRADE SHALL BE SPECIFICALLY DESIGNED FOR USE ON SOIL. CHAIRS FOR SLABS ON METAL DECK SHALL BE SPECIFICALLY DESIGNED FOR USE ON METAL DECK.

CNC-10 SIZE AND LOCATION OF EQUIPMENT SUPPORTS AND EMBEDS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER AND SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

CNC-11 ALL CONCRETE SHALL BE CONSOLIDATED BY VIBRATORY MEANS. CONSOLIDATIONS SHALL BE OBSERVED BY INSPECTION AGENCY.

CNC-12 CONCRETE ENGAGING SHOWN ON DRAWINGS ARE ACTUAL ENGAGINGS NOT NOMINAL ENGAGINGS.

CNC-13 ALL CONTINUOUS REINFORCING IN FOOTINGS AND WALLS SHALL EITHER BE CONTINUOUS AROUND CORNERS OR HAVE BENT CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS.

CNC-14 FOR THIN TILT SHALL BE EITHER OF THE THREADED OR SNAP OFF TYPE. NO EXPOSED METAL SHALL BE ALLOWED WITHIN ONE INCH OF THE SURFACE. ALL RECESSES SHALL BE POINTED WITH MORTAR.

CNC-15 ALL DOWELS, EMBEDS AND REINFORCING BARS SHALL BE SECURELY TIED PRIOR TO PLACING CONCRETE. INSTALLATION OF ITEMS INTO WET CONCRETE WILL NOT BE ALLOWED.

CNC-16 ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4" CHAMFER.

CNC-17 CONCRETE SHALL NOT BE DROPPED VERTICALLY MORE THAN 5 FEET WITHOUT THE USE OF A TREMIE.

MASONRY

MSN-1 ALL MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" AND ACI 530.1/ASCE 6/TMS 602 "SPECIFICATION FOR MASONRY STRUCTURES", LATEST EDITION.

MSN-2 MASONRY UNITS SHALL MEET ASTM C-90 FOR HOLLOW LOAD BEARING TYPE MASONRY WITH A UNIT STRENGTH OF 1,900 PSI ON A NET AREA (f'm = 1,900 PSI) MORTAR SHALL BE TYPE "M" OR "S" AND MEET ASTM C-270.

MSN-3 GROUT SHALL BE 2,000 PSI MINIMUM COMPRESSIVE STRENGTH AND MEET ASTM C-476 AND HAVE A SLUMP BETWEEN 8 AND 11 INCHES. THE MAXIMUM SIZE AGGREGATE SHALL BE 3/8 INCH.

MSN-4 CELLS CONTAINING REBAR SHALL BE GROUTED SOLID FROM THE BOTTOM TO THE TOP OF THE WALL IN ACCORDANCE WITH THE LOW LIFT GROUT METHOD. USE OF METHODS OTHER THAN THE LOW LIFT GROUT METHOD SHALL ONLY BE USED WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

MSN-5 MASONRY REINFORCING SHALL BE AS FOLLOWS:

LOCATION	ASTM	YIELD STRENGTH	NOTES
BOND BEAM AND VERTICAL REINFORCING	A615-09	60 KSI	
TRUSS TYPE JOINT REINFORCING	A82-07	70 KSI	PROVIDE W1.7 WIRE IN TRUSS CONFIGURATION

TRUSS TYPE JOINT REINFORCING SHALL HAVE PREFABRICATED CORNERS OR TEES AT WALL INTERSECTIONS.

MSN-6 ALL HORIZONTAL REINFORCING IN BOND BEAMS SHALL BE CONTINUOUS AT CORNERS AND INTERSECTION OR USE CORNER BARS. VERTICAL REINFORCING SHALL BE CONTINUOUS THROUGH BOND BEAMS.

MSN-7 CELLS TO BE GROUTED SOLID SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUSLY GROUT SPACE.

MSN-8 LAP REBAR IN ACCORDANCE WITH DETAIL 3 / S-100 LAP JOINT REINFORCING A MINIMUM OF 6".

MSN-9 ALL MASONRY WALL CONFIGURATIONS INCLUDING OPENING SHALL BE COORDINATED WITH ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS ALONG WITH OTHER TRADES.

MSN-10 ALL MASONRY BELOW GRADE AND/OR IN CONTACT WITH SOIL SHALL HAVE CELLS, VOIDS AND CAVITIES GROUTED SOLID.

STRUCTURAL STEEL

SS-1 THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "STEEL CONSTRUCTION MANUAL" 15TH EDITION.

SS-2 CONNECTIONS SHALL BEEN DESIGNED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICESECTION 3.1.2. OPTION (2). THE STEEL DETAILER SHALL SELECT AND COMPLETE CONNECTIONS BASED ON INFORMATION IN THE CONSTRUCTION DOCUMENTS. THE FABRICATOR IS NOT REQUIRED TO HIRE A PROFESSIONAL ENGINEER FOR CONNECTION DESIGN.

SS-3 ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

	ASTM	YIELD STRENGTH
WIDE FLANGE AND WT SECTIONS	A992	50 KSI
CHANNELS AND ANGLES	A36	36 KSI
STRUCTURAL PLATE AND BARS	A36*	36 KSI
STEEL PIPE	A53 GR B, TYPE S	35 KSI
SQUARE & RECTANGULAR TUBE	A500 GR B	46 KSI.
ROUND TUBE	A500 GR B	42 KSI

* UNLESS NOTED OTHERWISE.

SS-4 ALL HIGH STRENGTH BOLTS, WASHERS AND NUTS SHALL MEET THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND THE FOLLOWINGS:

AS SHOWN ON PLANS	TENSION	NOTES
A325N	SNUG TIGHT	THREADS INCLUDED IN PLANE
A325X	SNUG TIGHT	THREADS INCLUDED IN PLANE
A325SC	PRE-TENSION	SLIP CRITICAL WITH CLASS A FAYING SURFACE
A325PT	PRE-TENSION	THREADS INCLUDED IN PLANE
ANCHOR BOLT	SNUG TIGHT	ASTM F1554 GR 36

ASTM F1852, TENSION CONTROL BOLTS CAN BE SUBSTITUTED FOR A325 BOLTS AT CONTRACTOR'S DIRECTION

SS-5 ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODE AWS D1.1, LATEST EDITION.

SS-6 WELDING SHALL BE PERFORMED WITH E7XXX LOW HYDROGEN ELECTRODES USING EITHER SMAW, FCAW, OOR GMAW PROCESSES IN ACCORDANCE WITH AWS D1.1.

SS-7 ALL GROUT BELOW BASE PLATES SHALL BE NON-SHRINK, NON-METALIC WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.

SS-8 ANCHOR BOLTS, ANCHOR BOLT HOLES AND PLATE WASHERS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 14-2 OF THE AISC MANUAL OF STEEL CONSTRUCTION.

SS-9 ALL WELDS NOT SPECIFIED SHALL BE A MINIMUM 1/4" FILLET WELDS OR MEET THE SPECIFICATIONS OF TABLE J2.4 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR MINIMUM SIZE FILLET WELDS, WHICHEVER IS GREATER.

SS-10 WELD ACCESS HOLE CONFIGURATIONS FOR MOMENT CONNECTIONS SHALL COMPLY WITH TABLE 1-1 AND TABLE 1-2 OF AISC 358AC DESIGN MANUAL.

SS-11 ALL PERIMETER ANGLES AND FLOOR STOPS SHALL BE SPLICED PER DETAIL 5 / S-500 .

SS-12 ALL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE GALVANIZED PER ASTM A123 TO G-60 UNLESS NOTED OTHERWISE.

ABBREVIATIONS

@	– AND	FIN.	– FINISH
@	– AT	FLR.	– FLOOR.
°	– DEGREE	F.V.	– FIELD VERIFY
Ø	– DIAMETER	HAS	– HEADED ANCHOR STUD
ALT.	– ALTERNATE	FT.	– FOOT
ALUM.	– ALUMINUM	FTG.	– FOOTING
ANSI.	– AMERICAN NATIONAL STANDARDS INSTITUTE	GA.	– GAGE
		GALV.	– GALVANIZED
APPROX.	– APPROXIMATE	GR.	– GRADE
ARCH.	– ARCHITECTURAL	HORIZ.	– HORIZONTAL
ASTM.	– AMERICAN SOCIETY FOR TESTING AND MATERIALS	HSS	– HOLLOW STEEL SECTION
		lb.	– POUNDS
AWS	– AMERICAN WELDING SOCIETY	LT.	– LIGHT
B/F	– BOTTOM OF FOOTING	LLH	– LONG LEG HORIZONTAL
BLDG.	– BUILDING	LLV	– LONG LEG VERTICAL
BOT.	– BOTTOM	JST.	– JOIST
BRG.	– BEARING	MAX.	– MAXIMUM
CANT.	– CANTILEVER	MCJ	– MASONRY CONTROL JOINT
CEA	– CONCRETE EXPANSION ANCHOR	MFG.	– MANUFACTURE
CIP	– CAST IN PLACE	MIN.	– MINIMUM
CJ	– CONTROL JOINT	NTS	– NOT TO SCALE
℄	– CENTERLINE	OPP.	– OPPOSITE
CLR.	– CLEARANCE	PCP.	– PRECAST CONCRETE PANEL
CMU	– CONCRETE MASONRY UNIT	PEN.	– PENETRATION
COL.	– COLUMN	℄	– PLATE
CONC.	– CONCRETE	PREFAB.	– PREFABRICATED
CONST.	– CONSTRUCTION	REFER	– REFERENCE
CONT.	– CONTINUOUS	REINF.	– REINFORCE, REINFORCEMENT
CONX.	– CONNECTION	SCH.	– SCHEDULE
COORD.	– COORDINATE	SIM.	– SIMILAR
DBL.	– DOUBLE	SPEC.	– SPECIFICATION
DEMO.	– DEMOLISH, DEMOLITION	SQ.	– SQUARE
DET.	– DETAIL	STD.	– STANDARD
DIM.	– DIMENSION	STRL.	– STRUCTURAL
DWG.	– DRAWING	TOS	– TOP OF STEEL
EA	– EPOXY ANCHOR	TOW	– TOP OF WALL
EJ	– EXPANSION JOINT	TYP.	– TYPICAL
EL	– ELEVATION	VERT.	– VERTICAL
EXIST.	– EXISTING	WWF	– WELDED WIRE FABRIC
EQ.	– EQUAL		

QUALITY ASSURANCE

STRUCTURAL INSPECTION AND TESTING

1. STRUCTURAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH CHAPTER 17 OF THE 2021 IBC.

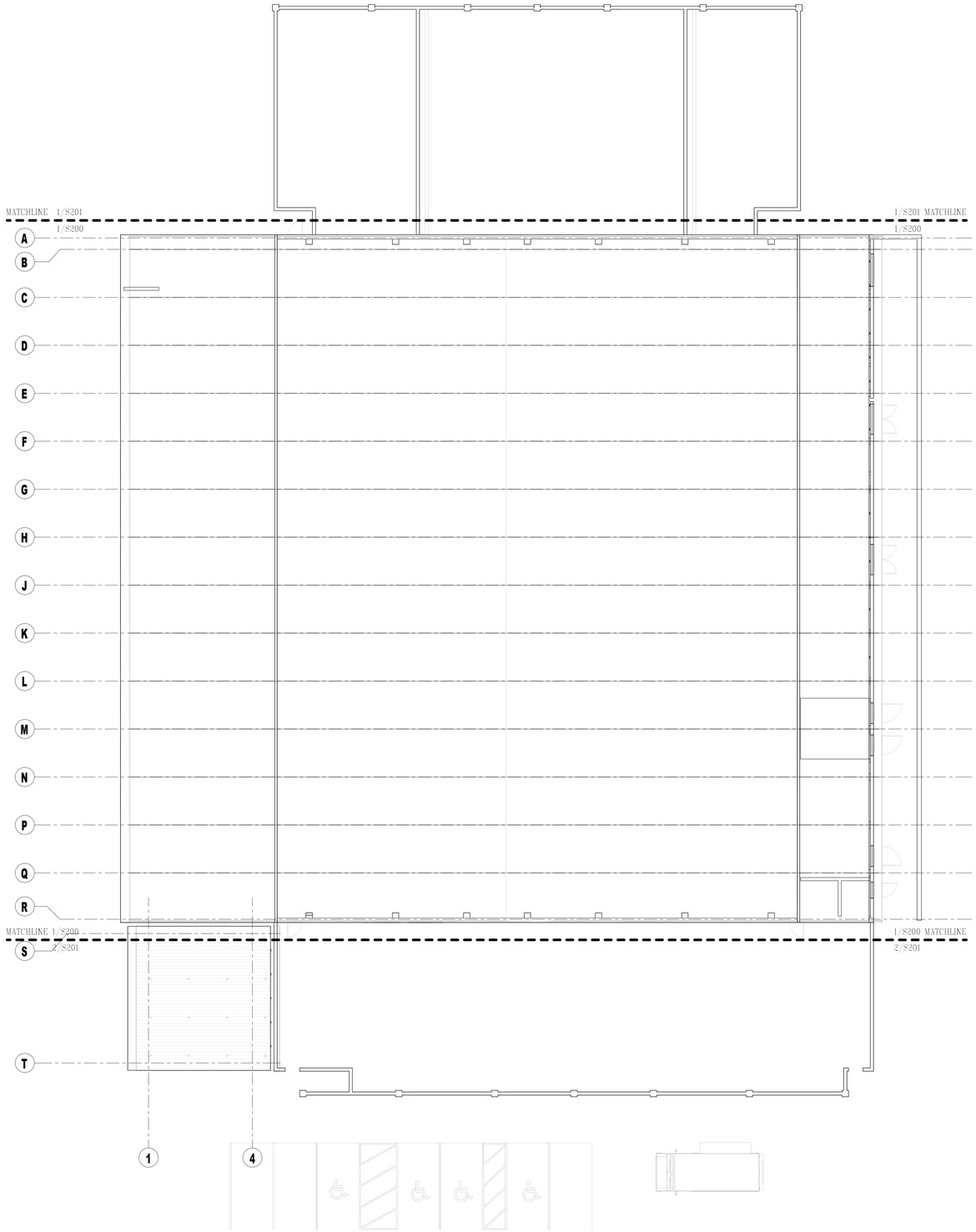
2. IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO SCHEDULE AND COORDINATE THE PERFORMANCE OF INSPECTIONS AND TESTING IN ACCORDANCE WITH THE SPECIFICATIONS, BUILDING CODE AND THE SPECIAL INSPECTION SCHEDULES.

3. SPECIAL INSPECTION AND TESTING SHALL BE PERFORMED BY A QUALIFIED PERSON OR AGENCY THAT IS APPROVED BY THE BUILDING OFFICIAL. INSPECTIONS PROVIDED BY LOCAL BUILDING OFFICIALS SHALL NOT BE CONSIDERED A SUBSTITUTION FOR SPECIAL INSPECTIONS OR TESTING REQUIREMENTS.

4. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
A. THE SPECIAL INSPECTOR SHALL INSPECT THE WORK AS REQUIRED BY THE SPECIAL INSPECTION SCHEDULES TO ENSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
B. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL IMPLEMENT A TIMELY PLAN TO CORRECT ANY DISCREPANCIES. IN THE EVENT THE DISCREPANCIES ARE NOT CORRECTED, THE ENGINEER, ARCHITECT AND BUILDING OFFICIAL SHALL BE NOTIFIED.
C. THE SPECIAL INSPECTOR SHALL PROVIDE INSPECTION REPORTS TO THE GENERAL CONTRACTOR, ARCHITECT, ENGINEER AND THE BUILDING OFFICIAL IN A TIMELY MANNER.

REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	1705.6
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	1705.6
4. VERIFY USE OF PROPER MATERIALS, DENSITIES A



1 SITE PLAN
SCALE: 3/32" = 1'-0"

NORTH

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NOT FOR CONSTRUCTION

ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	NOVEMBER 2025	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: M.O.
CHECKED BY: M.A.S.
SHEET TITLE:

SITE PLAN

SHEET NO:
S-110

STUBBS ENGINEERING, INC.
277 E. AMADOR AVE. SUITE 200
LAS CRUCES, NM 88001
PH: (575) 993-5228

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PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S-400

MCJ INDICATES A MASONRY CONTROL JOINT. REFERENCE DETAIL 8 / S-400 .

WX ——— INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

FTG STEP INDICATES FOOTING STEP. REFERENCE DETAIL 3 / S-400

KEY NOTES

1 . 6" CONCRETE SLAB WITH WWF6x6x-W1.4xW1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES

2 . 2-#4x4'-0" CENTERED IN SLAB

3 . FLOOR DRAIN. COORDINATE WITH PLUMBING AND ARCHITECTURAL. SLOPE SLAB IN 12-INCH RADIUS AROUND DRAIN 1/8":12"

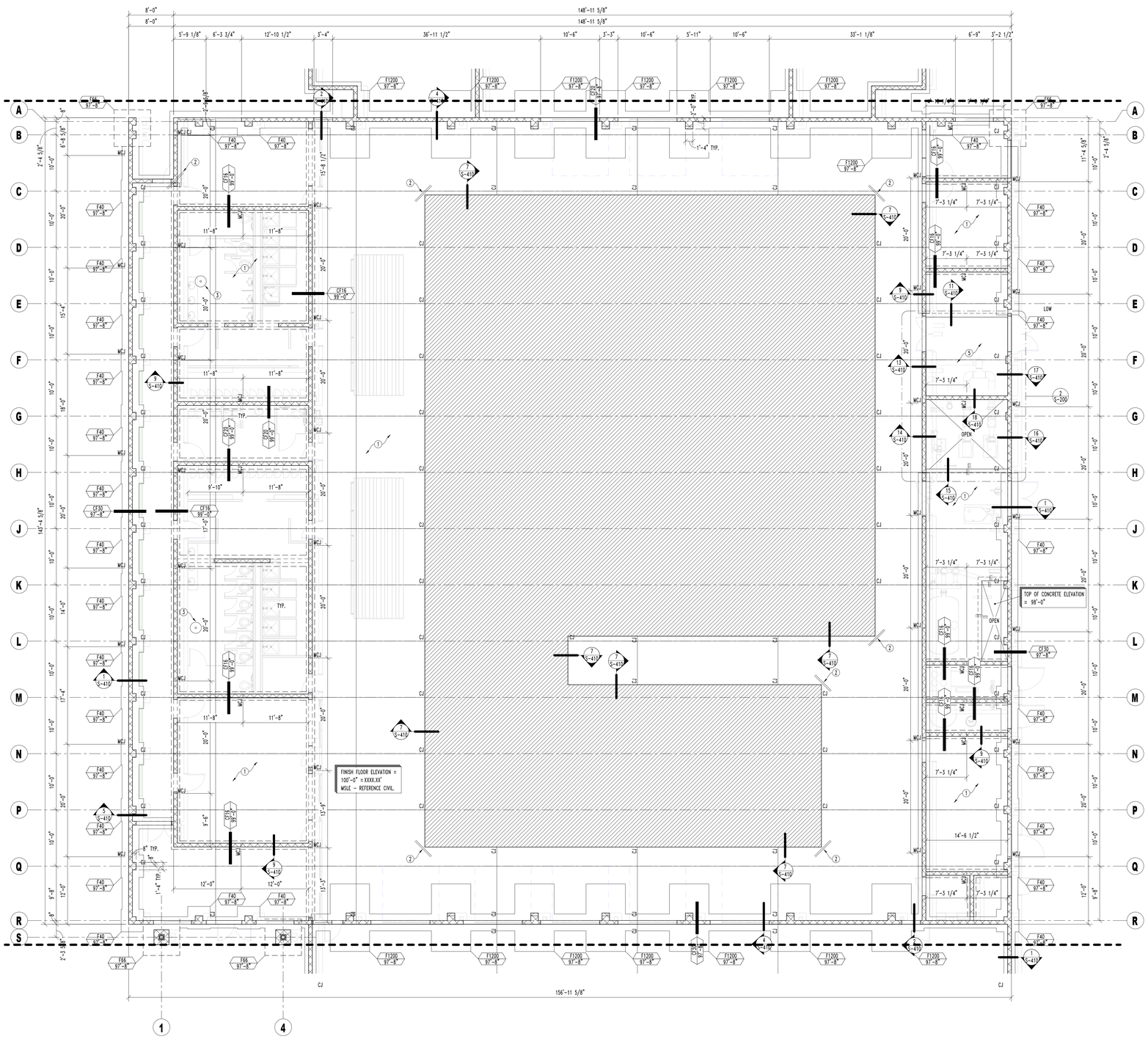
4 . 12" CONCRETE SLAB WITH #4 @ 16" O.C. EACH WAY TOP & BOTTOM OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES

5 . 8" ELEVATED CONCRETE SLAB WITH #5 @ 12" O.C. EACH WAY TOP & BOTTOM

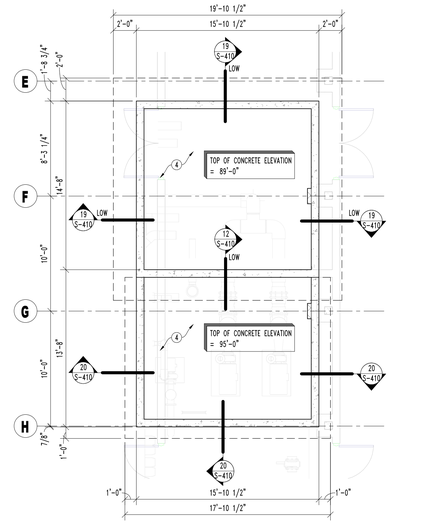
FOOTING SCHEDULE

XX — FOOTING MARK
XX'-XX" — BOTTOM OF FOOTING ELEVATION

FOOTING MARK	LONGITUDINAL WIDTH	TRANSVERSE WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT
CF16	CONTINUOUS	1'-6"	1'-0"	2 - #4	#3 @ 24" O.C.
CF20	CONTINUOUS	<varies>	1'-0"	3 - #4	#3 @ 24" O.C.
CF30	CONTINUOUS	3'-0"	1'-0"	4 - #4	#4 @ 16" O.C.
F40	4'-0"	4'-0"	1'-0"	4 - #5	4 - #5
F66	6'-0"	6'-6"	1'-0"	5-#6 TOP & BOT.	5 - #6 TOP & BOT.
F1200	12'-0"	7'-0"	1'-0"	9 - #5	12 - #5



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



2 LOW FOUNDATION PLAN
SCALE: 3/16" = 1'-0"
NORTH

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MICHAEL A. STUBBS, PE
NEW MEXICO
PE NO. 16814
NOT FOR CONSTRUCTION

ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	NOVEMBER 2025	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: M.O.
CHECKED BY: M.A.S.
SHEET TITLE:

FOUNDATION PLAN

SHEET NO:
S-200

STUBBS ENGINEERING, INC.
277 E. AMADOR AVE. SUITE 200
LAS CRUCES, NM 88001
PH: (575) 993-5228

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PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S-400

WCJ INDICATES A MASONRY CONTROL JOINT. REFERENCE DETAIL 8 / S-400 .

WX ——— INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

FTG STEP INDICATES FOOTING STEP. REFERENCE DETAIL 3 / S-400

KEY NOTES

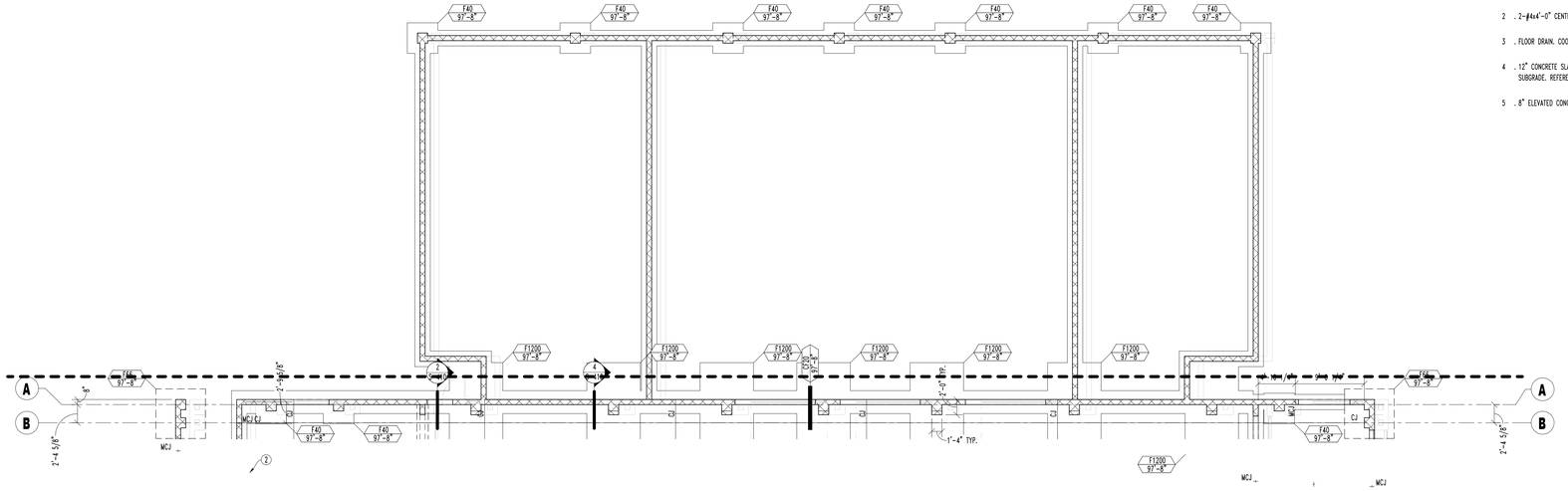
1 . 6" CONCRETE SLAB WITH WWF6x6x-W1.4xW1.4 WESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES

2 . 2-#4x4'-0" CENTERED IN SLAB

3 . FLOOR DRAIN. COORDINATE WITH PLUMBING AND ARCHITECTURAL. SLOPE SLAB IN 12-INCH RADIUS AROUND DRAIN 1/8":12"

4 . 12" CONCRETE SLAB WITH #4 @ 16" O.C. EACH WAY TOP & BOTTOM OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES

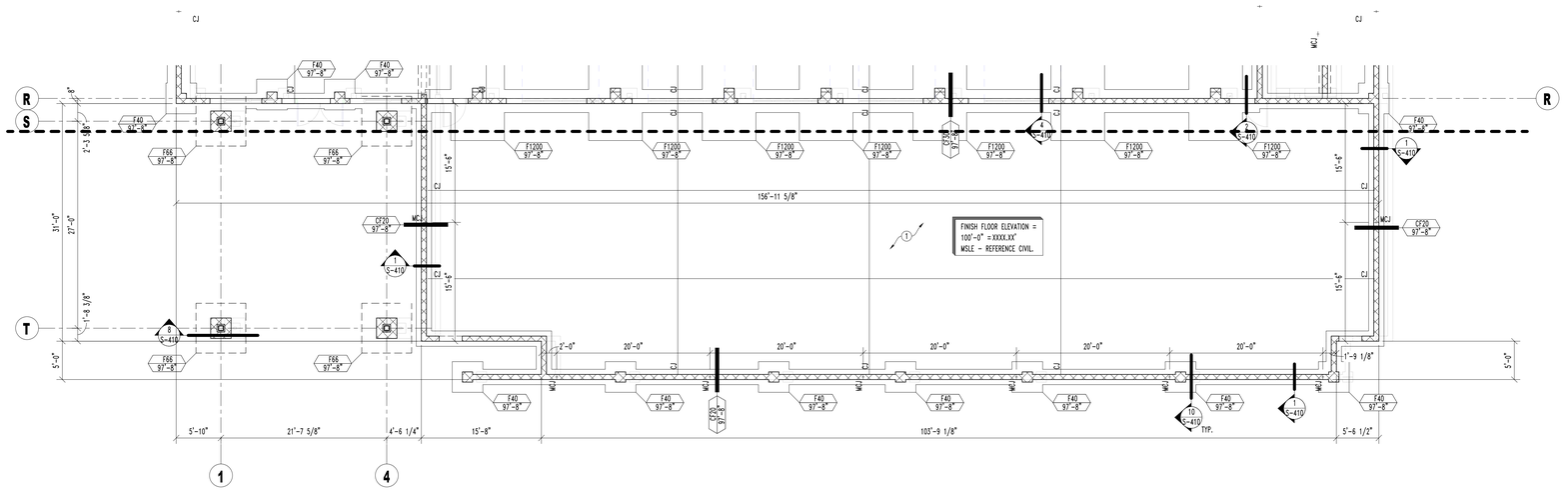
5 . 8" ELEVATED CONCRETE SLAB WITH #5 @ 12" O.C. EACH WAY TOP & BOTTOM



1 FOUNDATION PLAN – COURTYARD NORTH

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

NORTH



2 FOUNDATION PLAN – COURTYARD SOUTH

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

NORTH

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FOR:
CITY OF ALAMOGORDO

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ISSUE:	NOVEMBER 2025	

ASA PROJECT NO.:	22131L
PROJECT NO:	
DRAWN BY:	M.O.
CHECKED BY:	M.A.S.
SHEET TITLE:	COURTYARD FOUNDATION PLAN
SHEET NO:	S-201

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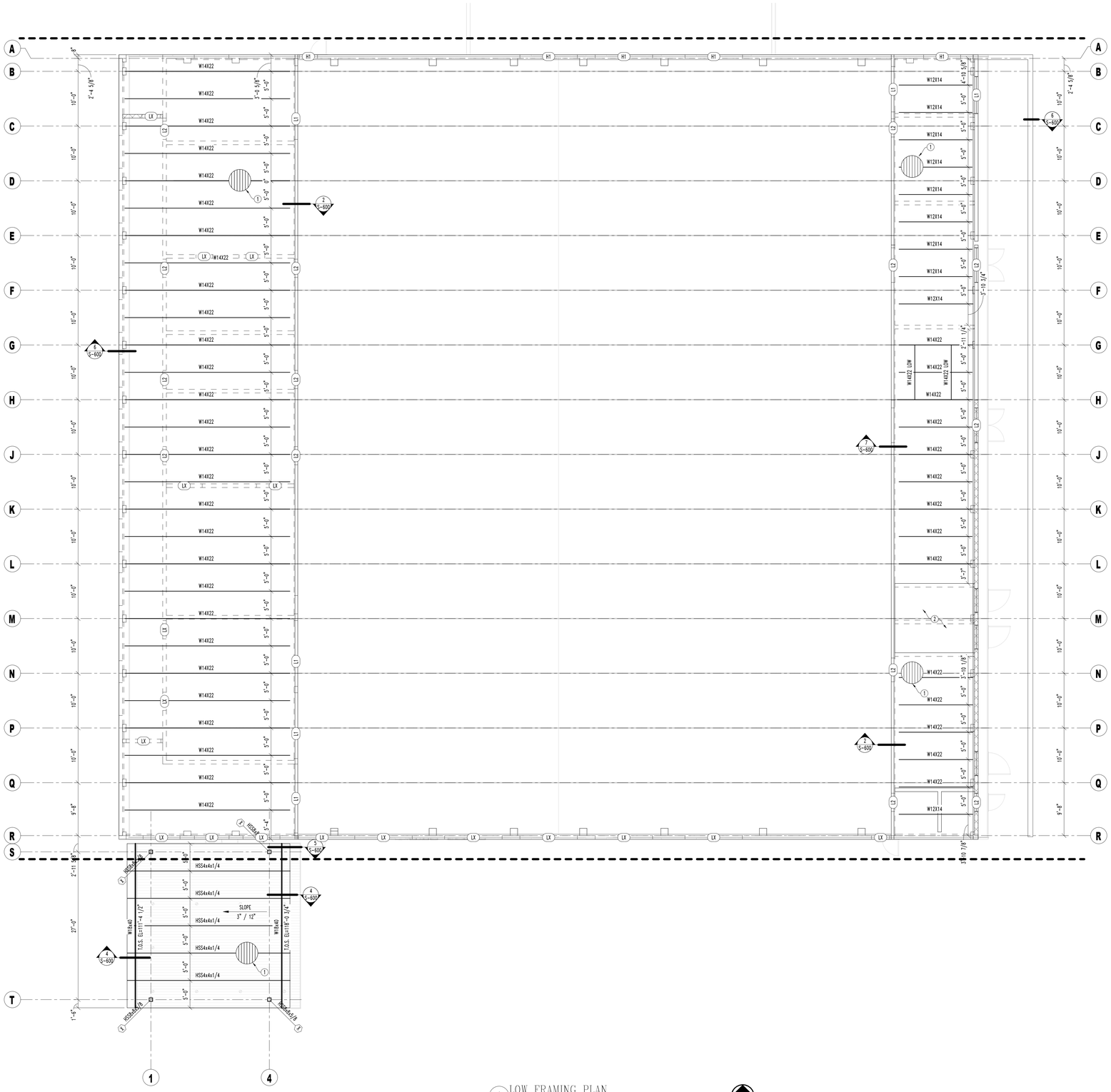

1 LOW FRAMING PLAN
SCALE: 1/8" = 1'-0"

NORTH

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CMU UNLESS NOTED OTHERWISE.

WCJ INDICATES A MASONRY CONTROL JOINT. REFERENCE DETAIL 8 / S-400.

REFERENCE DETAIL - / --- FOR COLUMN AND BASE PLATE SCHEDULE.

INDICATES BASE PLATE TYPE. REFERENCE DETAIL - / --- FOR BASE PLATE SCHEDULE.

INDICATES MOMENT CONNECTION. REFERENCE DETAIL - / ---.

LX INDICATES CMU LINTEL. REFERENCE DETAIL 1 / S-500 OR HEADER SCHEDULE.

WX INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

JOISTS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

J/B ELEVATION INDICATES ELEVATION AT BOTTOM OF JOIST SEAT.

REFERENCE DETAIL - / --- FOR TYPICAL JOIST TO BEAM CONNECTION.

REFERENCE DETAIL - / --- FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAIL - / --- FOR TYPICAL BEAM TO GIRDER CONNECTION.

REFERENCE DETAILS - / ---, - / ---, - / --- , - / --- , - / --- , - / ---, - / --- & - / --- FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL - / --- FOR TYPICAL ROOF FRAME DETAIL.

INDICATES LOAD BEARING WALL FROM ABOVE.

KEY NOTES

1 . 1-1/2" 22ga B DECK - REFERENCE STRUCTURAL NOTES

2 . 8" ELEVATED SLAB W/ ϕ5 @ 12" O.C. EACH WAY CENTERED IN SLAB

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FOR: CITY OF ALAMOGORDO

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ISSUE:	NOVEMBER 2025	

ASA PROJECT NO.:	22131L
PROJECT NO:	
DRAWN BY:	M.O.
CHECKED BY:	M.A.S.

SHEET TITLE:

LOW ROOF FRAMING PLAN

SHEET NO:

S-300

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277 E. AMADOR AVE. SUITE 200
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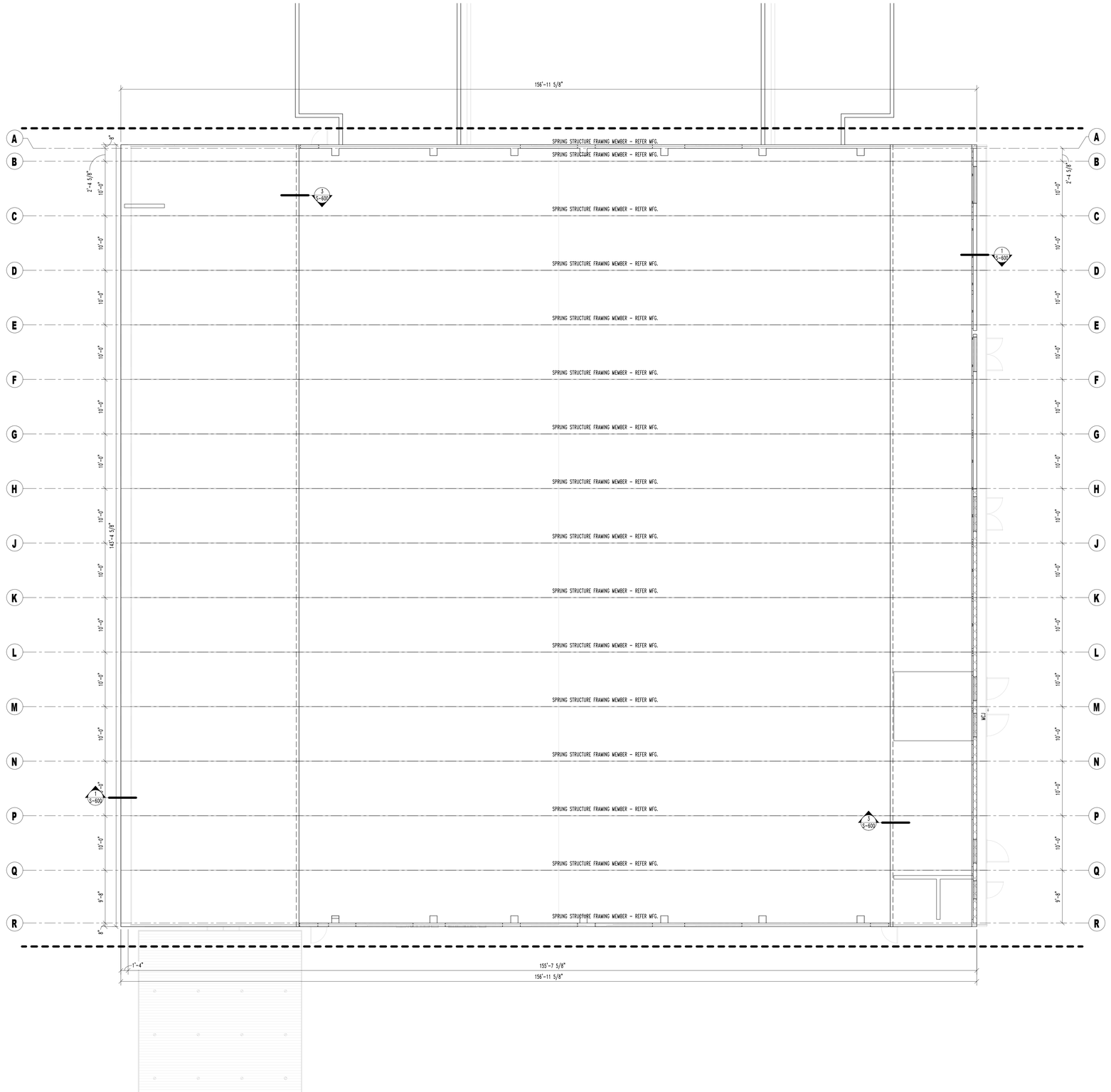

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CMU UNLESS NOTED OTHERWISE.

WCJ INDICATES A MASONRY CONTROL JOINT. REFERENCE DETAIL 8 / S-400.

REFERENCE DETAIL - / --- FOR COLUMN AND BASE PLATE SCHEDULE.

(A) INDICATES BASE PLATE TYPE. REFERENCE DETAIL - / --- FOR BASE PLATE SCHEDULE.

▶ INDICATES MOMENT CONNECTION. REFERENCE DETAIL - / ---.

(LX) INDICATES CMU LINTEL. REFERENCE DETAIL 1 / S-500 OR HEADER SCHEDULE.

WX INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

JOISTS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

J/B ELEVATION INDICATES ELEVATION AT BOTTOM OF JOIST SEAT.

REFERENCE DETAIL - / --- FOR TYPICAL JOIST TO BEAM CONNECTION.

REFERENCE DETAIL - / --- FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAIL - / --- FOR TYPICAL BEAM TO GIRDER CONNECTION.

REFERENCE DETAILS - / ---, - / ---, - / --- , - / --- , - / --- , - / ---, - / --- & - / --- FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL - / --- FOR TYPICAL ROOF FRAME DETAIL.

INDICATES LOAD BEARING WALL FROM ABOVE.

KEY NOTES

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

NORTH

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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: M.O.
CHECKED BY: M.A.S.
SHEET TITLE:

ROOF FRAMING PLAN

SHEET NO:
S-310

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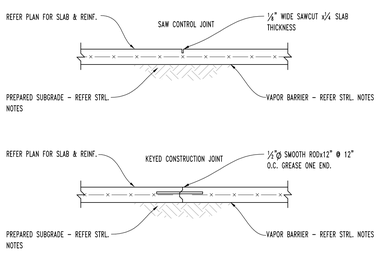
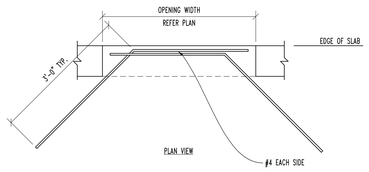
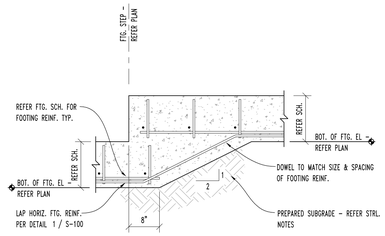


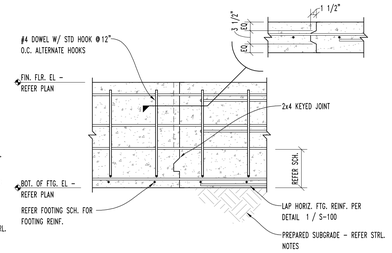
1 TYPICAL SLAB CONTROL JOINT
SCALE: 3/4" = 1'-0"



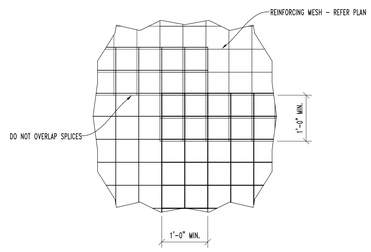
2 TYPICAL SLAB REINFORCEMENT @ OPENING
SCALE: 3/4" = 1'-0"



3 TYPICAL FOOTING STEP
SCALE: 3/4" = 1'-0"



4 TYPICAL FOOTING CONSTRUCTION JOINTS
SCALE: 3/4" = 1'-0"



5 TYPICAL REINFORCING MESH SPLICE
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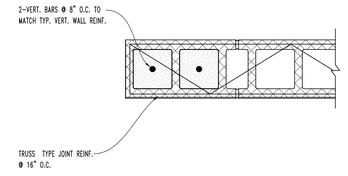
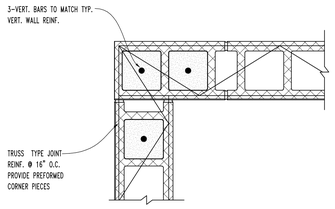


6 TYPICAL WALL JAMB
SCALE: 1 1/2" = 1'-0"



7 TYPICAL WALL CORNER
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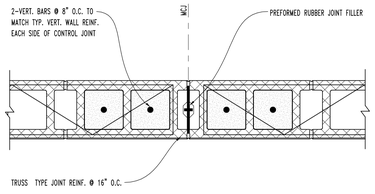
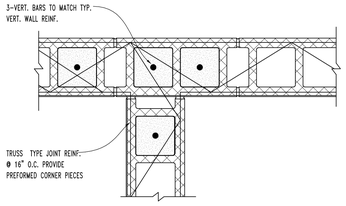


8 TYPICAL MASONRY CONTROL JOINT
SCALE: 1 1/2" = 1'-0"



9 TYPICAL WALL INTERSECTION
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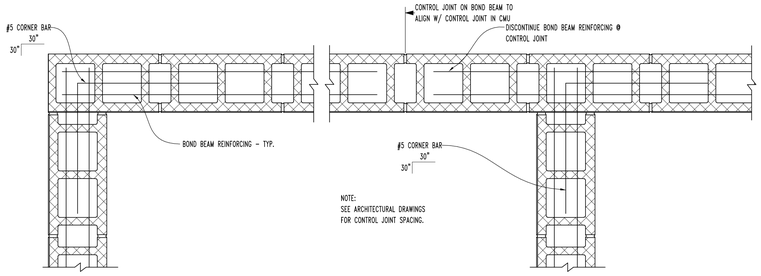
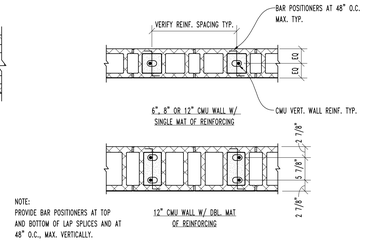
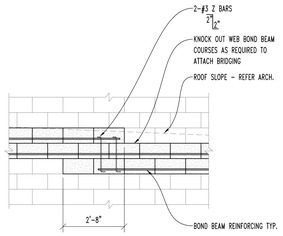


10 TYPICAL CORNER BARS AT BOND BEAMS DETAIL
SCALE: N.T.S.



11 TYPICAL CMU BAR PLACEMENT DETAIL
SCALE: 3/4" = 1'-0"



12 TYPICAL STEP ION BOND BEAM ELEVATION DETAIL
SCALE: N.T.S.

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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: M.O.
CHECKED BY: M.A.S.
SHEET TITLE:

TYPICAL FOUNDATION DETAILS

SHEET NO:
S-400

STUBBS ENGINEERING, INC.
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LAS CRUCES, NM 88001
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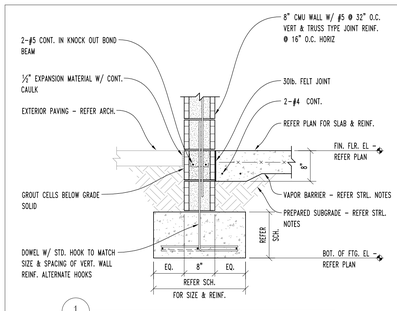

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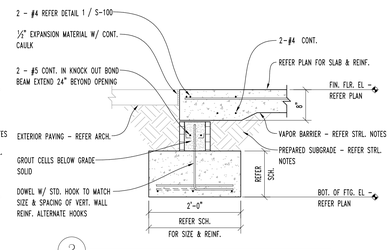

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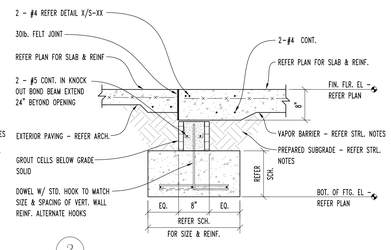

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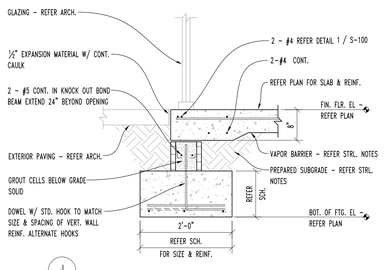

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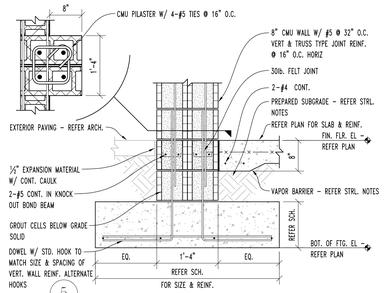

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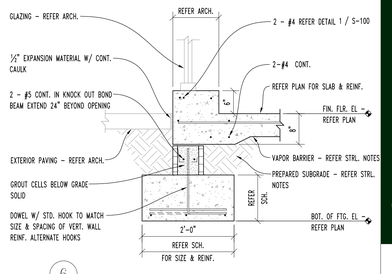

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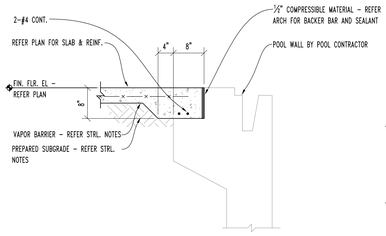

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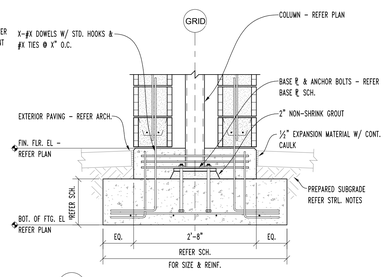

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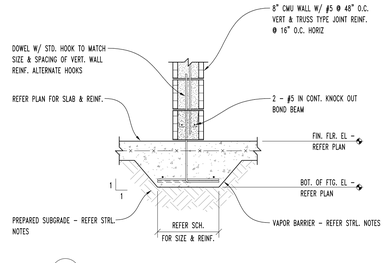

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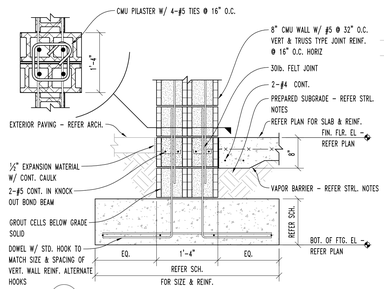

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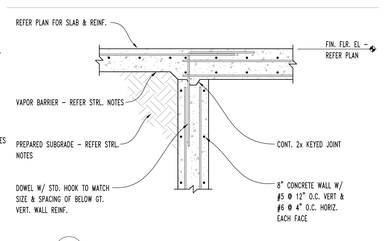

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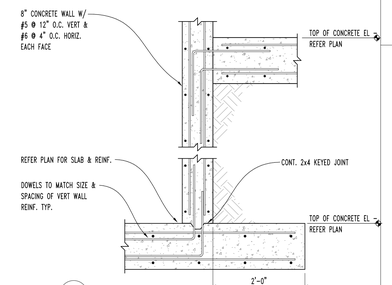

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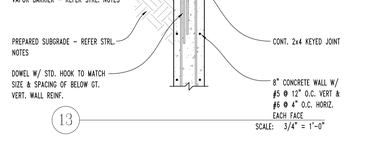
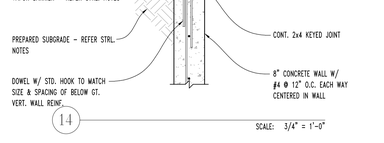


13 SCALE: 3/4" = 1'-0"



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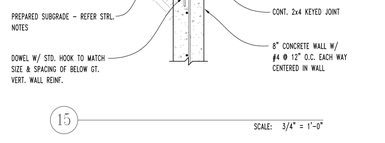

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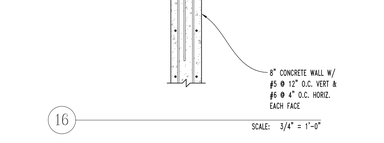

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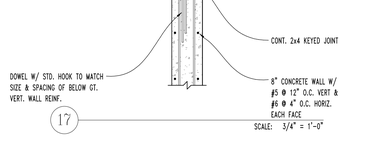

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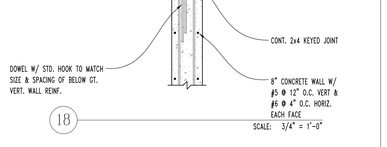

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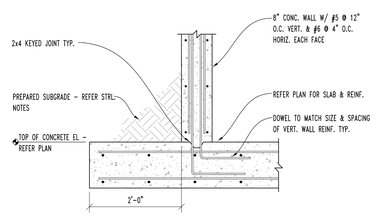

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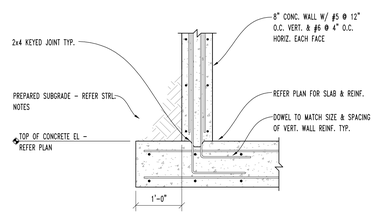

20 SCALE: 3/4" = 1'-0"

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THE ENGINEER WHOSE SEAL APPEARS HEREON WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THESE DOCUMENTS
MICHAEL A. STUBBS, PE
NEW MEXICO
PE NO. 16814
NOT FOR CONSTRUCTION

ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE	NOVEMBER 2025	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: M.O.
CHECKED BY: M.A.S.
SHEET TITLE:

FOUNDATION DETAILS

SHEET NO:
S-410

STUBBS ENGINEERING, INC.
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LAS CRUCES, NM 88001
PH: (575) 993-5228

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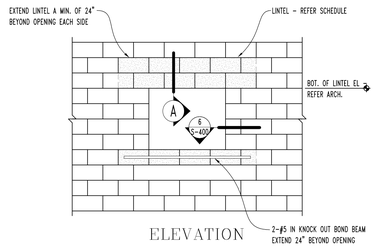
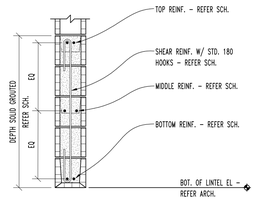
LINTEL SCHEDULE

MARK	LINTEL DEPTH	BOTTOM REINF.	MIDDLE REINF.	TOP REINF.	SHEAR REINF.
L1	24"	2-#5	--	--	--
L2	40"	2-#5	--	2-#5	#3 @ 8" O.C.
L3	56"	2-#6	2-#6	2-#6	#3 @ 16" O.C.



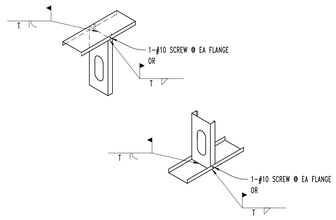
ELEVATION



DETAIL A

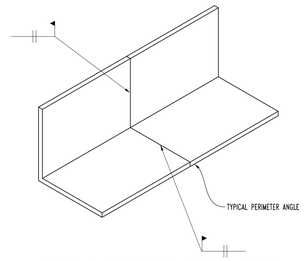
1 CMU LINTEL SCHEDULE

SCALE: N.T.S.



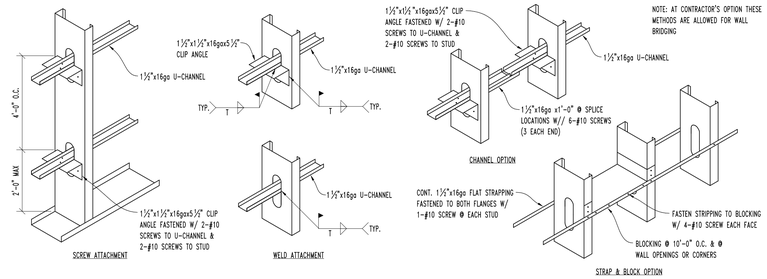
2 TYPICAL STUD TO TRACK DETAIL

SCALE: N.T.S.



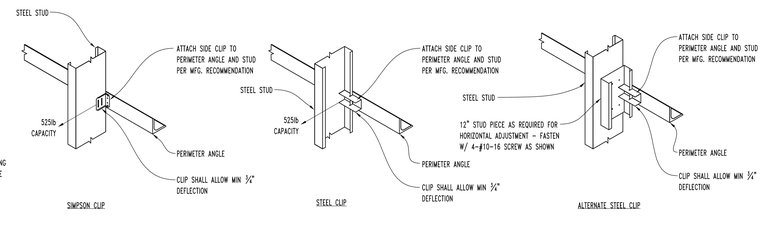
3 TYPICAL PERIMETER DECK ANGLE SPLICE

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



4 TYPICAL WALL BRIDGING

SCALE: N.T.S.



5 TYPICAL SLIDE CLIP

SCALE: N.T.S.

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FOR:
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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: M.O.
CHECKED BY: M.A.S.
SHEET TITLE:

TYPICAL FRAMING DETAILS

SHEET NO:
S-500

STUBBS ENGINEERING, INC.
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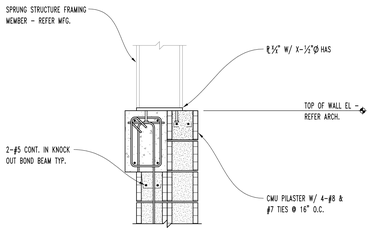

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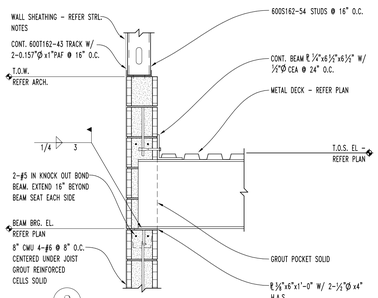

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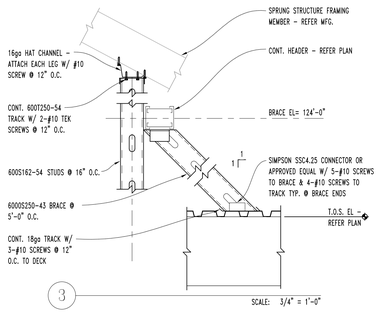

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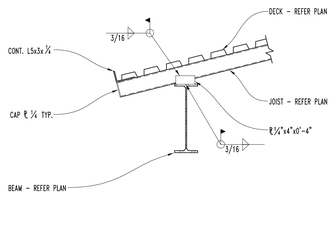

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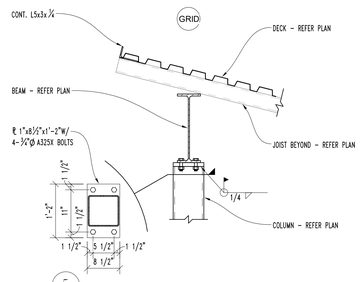

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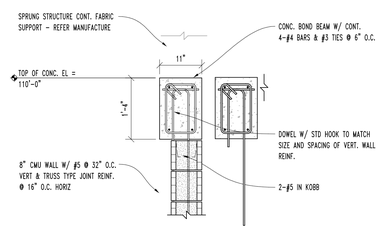

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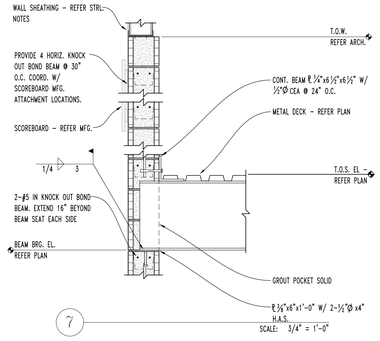

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CHECKED BY:	M.A.S.

SHEET TITLE:

FRAMING DETAILS

SHEET NO:

S-600

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VENTILATION SCHEDULE

SPACE NO.	SPACE NAME	FLOOR AREA Az	OCCUPANT DENSITY	POPULATION Pz	PEOPLE OUTDOOR AIR RATE Rp	OUTDOOR AIR RATE Ra	BREATHING ZONE OUTDOOR AIRFLOW Vbz
		SQ.FT.	SQ.FT. / PERSON	PEOPLE	CFM / PERSON	CFM / SQ.FT.	CFM
100	LOBBY	430	100	5	5	0.06	50
101	CORRIDOR	800	-	-	-	0.06	50
102	MULTI-PURPOSE ROOM	605	10	61	7.5	0.06	495
103	WOMEN'S LOCKER ROOM	810	-	-	-	0.50	405
104	FAMILY CHANGE ROOM	215	-	-	-	0.50	110
105	MEN'S LOCKER ROOM	730	-	-	-	0.50	365
106	LIFEGUARD OFFICE	350	100	4	5	0.06	40
107A	INTERIOR DECK (POOL + WET DECK)	11140	-	-	-	0.48	5345
107B	INTERIOR DECK (SPECTATOR + DRY DECK)	4260	20	213	7.5	0.06	1855
108	JANITOR ROOM	60	-	-	-	1.00	60
109	ELECTRICAL ROOM	345	-	-	-	1.00	345
110	POOL MECHANICAL ROOM	665	-	-	-	1.00	665
111	POOL STORAGE	315	-	-	-	1.00	315
112	STORAGE ROOM	220	-	-	-	1.00	220
113	OFFICE	140	100	2	5	0.06	20
114	MECHANICAL ROOM	65	-	-	-	1.00	65
115	MECHANICAL ROOM	50	-	-	-	1.00	50
116	ACID ROOM	85	-	-	-	1.50	130
117	CHLORINE ROOM	80	-	-	-	1.50	120

CALCULATIONS BASED ON ASHRAE STANDARD 62.1 - 2018.

AIR DISTRIBUTION DEVICE SCHEDULE

MARK	MANUFACTURER/ MODEL NO.	DESCRIPTION	MOUNTING	MATERIAL	FINISH	FACE SIZE	NECK SIZE	REMARKS
SD-1	TITUS / TMS	SQUARE SUPPLY DIFFUSER	CEILING SURFACE	STEEL	WHITE	24" x 24"	AS PER PLANS	4-WAY THROW PATTERN, 3-CONE UNIFORM DESIGN, ROUND NECK
SD-2	TITUS / TMS	SQUARE SUPPLY DIFFUSER	CEILING SURFACE	STEEL	WHITE	12" x 12"	AS PER PLANS	4-WAY THROW PATTERN, 3-CONE UNIFORM DESIGN, ROUND NECK
RG-1	TITUS / 350FL	RETURN GRILLE	WALL SURFACE	ALUMINUM	WHITE	-	AS PER PLANS	3/4" BLADE SPACING, SINGLE 35° DEFLECTION, FIXED BLADES, BLADES PARALLEL TO LONG DIMENSION
RG-2	TITUS / 50F	RETURN GRILLE	CEILING SURFACE	STEEL	WHITE	-	AS PER PLANS	1/2" x 1/2" x 1/2" EGGCRATE ALUMINUM CORE, HIGH FREE AREA, 0° DEFLECTION
EG-1	TITUS / 50F	EXHAUST GRILLE	CEILING SURFACE	STEEL	WHITE	12" x 12"	10" x 10"	1/2" x 1/2" x 1/2" EGGCRATE ALUMINUM CORE, HIGH FREE AREA, 0° DEFLECTION
EG-2	TITUS / 350RL	EXHAUST GRILLE	DUCT MOUNTED	STEEL	WHITE	-	AS PER PLANS	3/4" BLADE SPACING, SINGLE 35° DEFLECTION, FIXED BLADES, BLADES PARALLEL TO LONG DIMENSION
TG-1	TITUS / 350RL	TRANSFER GRILLE	CEILING SURFACE	STEEL	WHITE	-	AS PER PLANS	3/4" BLADE SPACING, SINGLE 35° DEFLECTION, FIXED BLADES, BLADES PARALLEL TO LONG DIMENSION
LV-1	RUSKIN / ELF375DX	EXHAUST LOUVER	EXTERIOR WALL MOUNTED	ALUMINUM	COLOR BY ARCHITECT	-	AS PER PLANS	4" DEEP WITH DRAINABLE GUTTER, EXTENDED SILL, SLEEVE AND BIRDSCREEN. COORDINATE FRAME INSTALLATION.
LV-2	RUSKIN / ELF375DX	INTAKE LOUVER	EXTERIOR WALL MOUNTED	ALUMINUM	COLOR BY ARCHITECT	-	AS PER PLANS	4" DEEP WITH DRAINABLE GUTTER, EXTENDED SILL, SLEEVE AND BIRDSCREEN. COORDINATE FRAME INSTALLATION.
LV-3	RUSKIN / ELF15J	INTAKE LOUVER	INTERIOR WALL MOUNTED	ALUMINUM	COLOR BY ARCHITECT	-	ASPER PLANS	1.5" DEEP, SLEEVE, BIRDSCREEN. COORDINATE FRAME INSTALLATION.

NOTES:
1. PROVIDE INTEGRAL BALANCING DAMPERS ON EXHAUST APPLICATIONS. DAMPERS SHALL BE ADJUSTABLE THROUGH FACE OF AIR DEVICE AND SHALL BE OPPOSED BLADE TYPE WHERE AVAILABLE.
2. PROVIDE TAPERED TRANSITIONS FOR ALL AIR DEVICE WITH NECK SIZES DIFFERENT THAN DUCT RUN-OUT SIZE.
3. PATCH AND SEAL ALL WALL PENETRATIONS WEATHERTIGHT AT TYPE LV DEVICES.
4. ALL LOUVERS (LV) SHALL HAVE A MINIMUM FREE AREA OF 50%.
5. PROVIDE LV-2 WITH GREENHECK VCD-23 MOTORIZED DAMPER, PARALLEL BLADES, STAINLESS STEEL, LOW LEAKAGE WITH BLADE AND JAMB SEALS.

APPROVED EQUIVALENT MANUFACTURER: PRICE, KRUEGER, OR APPROVED EQUAL.

MECHANICAL SYMBOL LEGEND

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
		KEYED NOTES	RAD		RETURN AIR DAMPER
		EQUIPMENT DESIGNATION	SP		STATIC PRESSURE
		DEMOLISHED ITEM	SW		SIDEWALL
(E)		EXISTING	TG		TRANSFER GRILLE
(TYP)		TYPICAL		T	THERMOSTAT
AF		AIR FILTER			POINT OF CONNECTION
BDD		BACKDRAFT DAMPER			BUTTERFLY VALVE
BTU		BRITISH THERMAL UNITS			BALL VALVE
CD		CEILING DIFFUSER			RISER DOWN
CFH		CUBIC FEET PER HOUR			RISER UP
CFM		CUBIC FEET PER MINUTE			VALVE IN RISER
DIA	Ø	DIAMETER			DROP
DG		DOOR GRILLE			RISER UP
EAD		EXHAUST AIR DAMPER (OPPOSED BLADE)			PIPE GUIDE
ELV		ELEVATION			DIRECTIION OF FLOW
ESP		EXTERNAL STATIC PRESSURE			GLOBE VALVE
EWT		ENTERING WATER TEMPERATURE			CHECK VALVE
°F		DEGREES FAHRENHEIT			PLUG VALVE
FFE		FINISH FLOOR ELEVATION			BALANCING VALVE
G		GRILLE			TEMPERATURE CONTROL VALVE (2-WAY)
GPH		GALLONS PER HOUR			TEMPERATURE CONTROL VALVE (3-WAY)
HP		HORSE POWER			SOLENOID VALVE
INV		INVERT ELEVATION			UNION
LD		LINEAR DIFFUSER			FLANGED CONNECTION
LWT		LEAVING WATER TEMPERATURE			PIPE ANCHOR
NA		NOT APPLICABLE			SAFETY RELIEF VALVE
NC		NORMALLY CLOSED			PRESSURE GAUGE WITH PIG TAIL AND COCK
NO		NORMALLY OPEN			THERMOMETER
OAD		OUTSIDE AIR DAMPER (OPPOSED BLADE)			STRAINER WITH BLOW-OFF VALVE
PH		PHASE			FLOW SWITCH
PSIG		POUNDS PER SQUARE INCH			
R		REGISTER WITH OBD			

MECHANICAL PIPING DESIGNATION

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
	20/12	RIGID DUCTWORK - FIRST FIGURE IS SIDE SHOWN	RA		SIDEWALL RETURN OR EXHAUST AIR INLET
	20/12	RIGID DUCTWORK	RR/EG		SIDEWALL RETURN OR EXHAUST AIR INLET
		FLEXIBLE DUCTWORK	FC		FLEXIBLE CONNECTION
		FLEXIBLE DUCTWORK	FD		FIRE DAMPER
		DUCT TRANSITION	S/FD		SMOKE/FIRE DAMPER
		DUCT TRANSITION	MVD		MANUAL VOLUME DAMPER
CD		CEILING SUPPLY AIR OUTLET	UH		UNIT HEATER
CD		CEILING SUPPLY AIR OUTLET	OBD		OPPOSED BLADE DAMPER
CD		CEILING SUPPLY AIR OUTLET	PBD		PARALLEL BLADE DAMPER
RG/EG		CEILING RETURN OR EXHAUST AIR INLET			RETURN OR EXHAUST DUCT DOWN
RG/EG		CEILING RETURN OR EXHAUST AIR INLET			SUPPLY DUCT DOWN
SA		SIDEWALL SUPPLY AIR OUTLET			RETURN OR EXHAUST DUCT UP
SA		SIDEWALL SUPPLY AIR OUTLET			SUPPLY AIR DUCT UP

MECHANICAL PIPING DESIGNATION

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
CHWR	CHWR	CHILLED WATER RETURN PIPING - COPPER TYPE "L"	LPS	LPS	LOW PRESSURE STEAM
CHWS	CHWS	CHILLED WATER SUPPLY PIPING - COPPER TYPE "L"	MPS	MPS	MEDIUM PRESSURE STEAM
D	D	CONDENSATE DRAIN LINE	RD	RD	ROOF DRAIN LEADER
GLR	GLR	GEOTHERMAL (CR GROUND) LOOP RETURN	RL	RL	REFRIGERANT LIQUID
GLS	GLS	GEOTHERMAL (CR GROUND) LOOP SUPPLY	RS	RS	REFRIGERANT SUCTION
HPR	HPR	HIGH PRESSURE CONDENSATE RETURN	TWR	TWR	TOWER WATER RETURN PIPING
HPS	HPS	HIGH PRESSURE STEAM	TWS	TWS	TOWER WATER SUPPLY PIPING
LPR	LPR	LOW PRESSURE CONDENSATE RETURN			

HVAC GENERAL NOTES

A. ALL DUCTS SHALL BE EXTERNALLY INSULATED, UNLESS OTHERWISE NOTED.

B. ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER.

C. PROVIDE ALL NECESSARY FITTINGS FOR RISES AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.

D. ALL DUCTWORK INSTALLED IN AREAS WITH CEILING TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE.

E. ALL DUCT PENETRATIONS THROUGH THE ROOF SHALL BE CURBED, FLASHED AND COUNTER-FLASHED TO ACHIEVE A WATERTIGHT CONSTRUCTION.

F. COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWINGS. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS.

G. INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUN-OUTS TO DIFFUSER. BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER. ALL BRANCH DUCTS SHALL HAVE BALANCING DAMPERS.

H. FLEXIBLE ROUND DUCT BRANCHES TO DIFFUSERS SHALL BE PRE-INSULATED AND SHALL NOT EXCEED 5 FT. IN TOTAL LENGTH.

I. THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE IN WALLS EXTENDING THROUGH CEILING AND UP TO STRUCTURE A RETURN AIR OPENINGS EQUAL TO 1 FT2/ PER 500 CFM OF AIR BEING RETURNED, UNLESS OTHERWISE NOTED. PROVIDE WITH FIRE DAMPER IN FIRE RATED WALL.

J. COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT, SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.

K. COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES, AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.

L. ALL 90° SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.

M. ALL THERMOSTATS SHALL BE MOUNTED UP 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. PROVIDE APPROVED, STEEL VENTILATED LOCKING COVERS WITH GUARDS AT ALL THERMOSTATS, UNLESS OTHERWISE DIRECTED.

N. ALL FIRE AND/OR SMOKE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.

O. PROVIDE ACCESS DOORS IN FIXED CEILINGS, CHASES, AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS, OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.

P. BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS, OR DIFFUSERS, HE SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS, OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER, OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.

SHEET LIST MECHANICAL

SHEET NUMBER	SHEET NAME
M-001	MECHANICAL LEGEND, SCHEDULES & GENERAL NOTES
M-101	MECHANICAL FLOOR PLAN
M-301	MECHANICAL SECTIONS
M-401	MECHANICAL ENLARGED PLANS & SECTIONS
M-402	MECHANICAL ENLARGED PLANS
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-601	MECHANICAL SCHEDULES
M-701	MECHANICAL CONTROLS
M-702	MECHANICAL CONTROLS

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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
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SHEET TITLE:

MECHANICAL LEGEND, SCHEDULES & GENERAL NOTES

SHEET NO:
M-001

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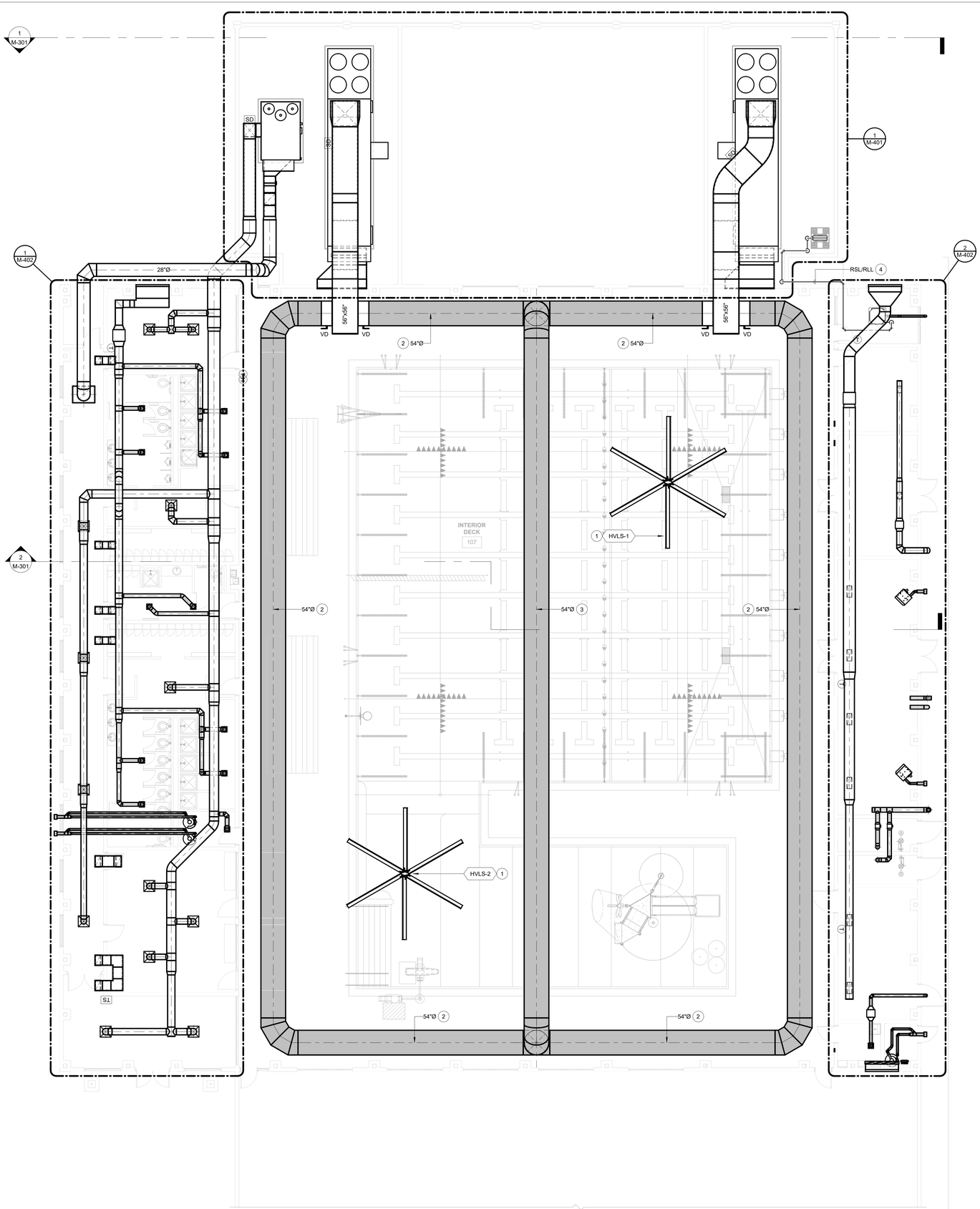

GENERAL NOTES

A. REFER TO SHEET M-001 FOR MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES.

B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

C. REFER TO SHEET M-601 FOR MECHANICAL SCHEDULES.

D. REFER TO SHEET M-701 AND M-702 FOR MECHANICAL CONTROLS.

E. DUCT RUNOUTS SHALL BE EQUAL TO THE DIFFUSER/GRILLE/REGISTER NECK SIZE.

F. CONTRACTOR SHALL COORDINATE ALL MECHANICAL INSTALLATIONS INSIDE CEILING SPACE WITH STRUCTURE, OTHER SERVICES, ETC.

G. REFRIGERANT PIPE SIZES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD SIZING REQUIREMENTS BASED ON TOTAL EQUIVALENT PIPE LENGTH, ELEVATION CHANGE, AND UNIT CAPACITY.

H. ENSURE SUPPLY AIR DIRECTED TOWARD INTERIOR DECK PERIMETER WALLS AND WINDOWS REMAINS UNOBSTRUCTED.

KEYED NOTES

1. HIGH VOLUME, LOW SPEED DESTRATIFICATION CEILING FAN, SUSPENDED, 24' DIAMETER, 6 BLADES. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
2. DUCTSOX SEDONA-XM FABRIC DUCT, AIR POROUS FABRIC WITH LINEAR VENTS, IMPREGNATED CABLE U-TRACK SUSPENSION, AND INTERNAL HOOP SYSTEM. DESIGN INLET VELOCITY OF 1500 FPM. PROVIDE 4- AND 8- O'CLOCK LINEAR VENTS WITH 40' THROW AT 50 FPM TERMINAL VELOCITY. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
3. DUCTSOX SEDONA-XM FABRIC DUCT, AIR POROUS FABRIC WITH LINEAR VENTS, IMPREGNATED CABLE U-TRACK SUSPENSION, AND INTERNAL HOOP SYSTEM. DESIGN INLET VELOCITY OF 1500 FPM. PROVIDE 5- AND 7- O'CLOCK LINEAR VENTS WITH 42' THROW AT 50 FPM TERMINAL VELOCITY. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
4. 1/2" RS AND 1/4 RL REFRIGERANT PIPING. ROUTE ALONG EXTERIOR WALL AND PROVIDE EXPOSED PIPING WITH RECTORSEAL LINESET COVER.

1 MECHANICAL FLOOR PLAN
1/8" = 1'-0"

0 4" 8" 16"

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MECHANICAL FLOOR PLAN

SHEET NO:
M-101

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GENERAL NOTES

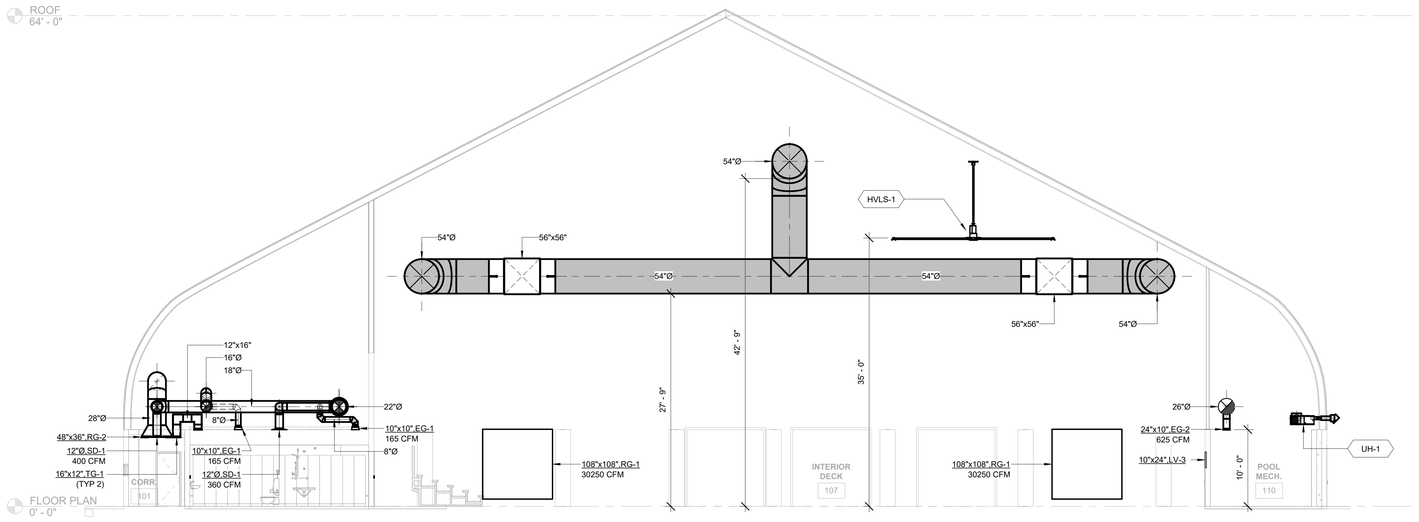
A. REFER TO SHEET M-001 FOR MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES.

B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

C. REFER TO SHEET M-601 FOR MECHANICAL SCHEDULES.

D. REFER TO SHEET M-701 AND M-702 FOR MECHANICAL CONTROLS.

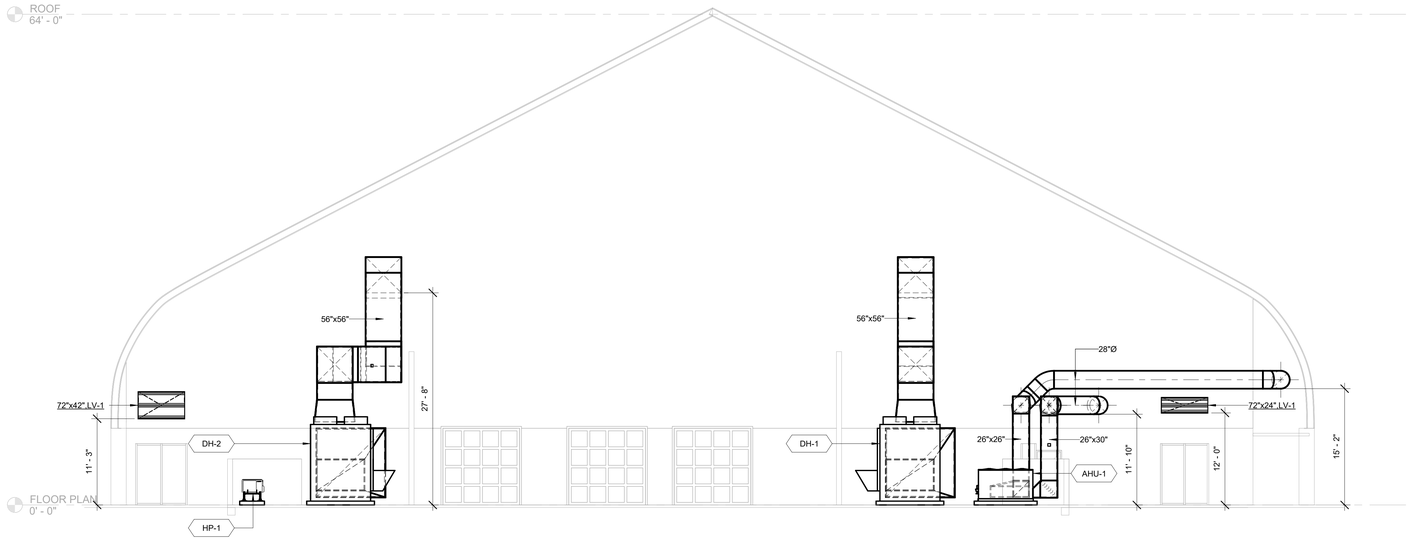
E. SECTIONS ARE PROVIDED FOR INFORMATION ONLY REGARDING SYSTEM INSTALLATION. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE COMPLETE CONTRACT DOCUMENTS.



2 MECHANICAL SECTION B

1/8" = 1'-0"

0 4' 8' 16'



1 MECHANICAL SECTION A

1/8" = 1'-0"

0 4' 8' 16'

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MECHANICAL SECTIONS

SHEET NO:

M-301

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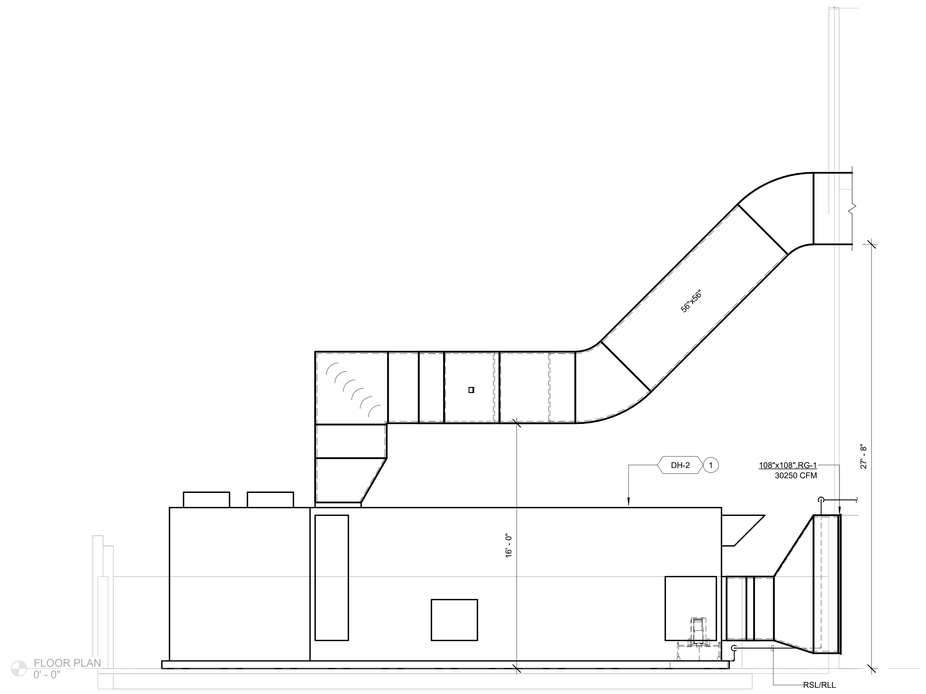
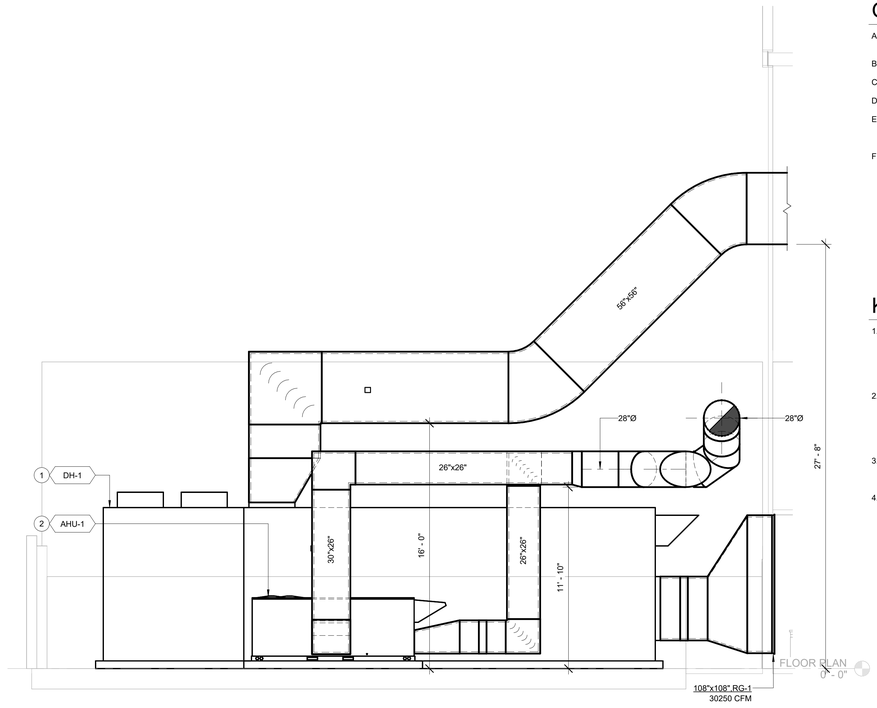


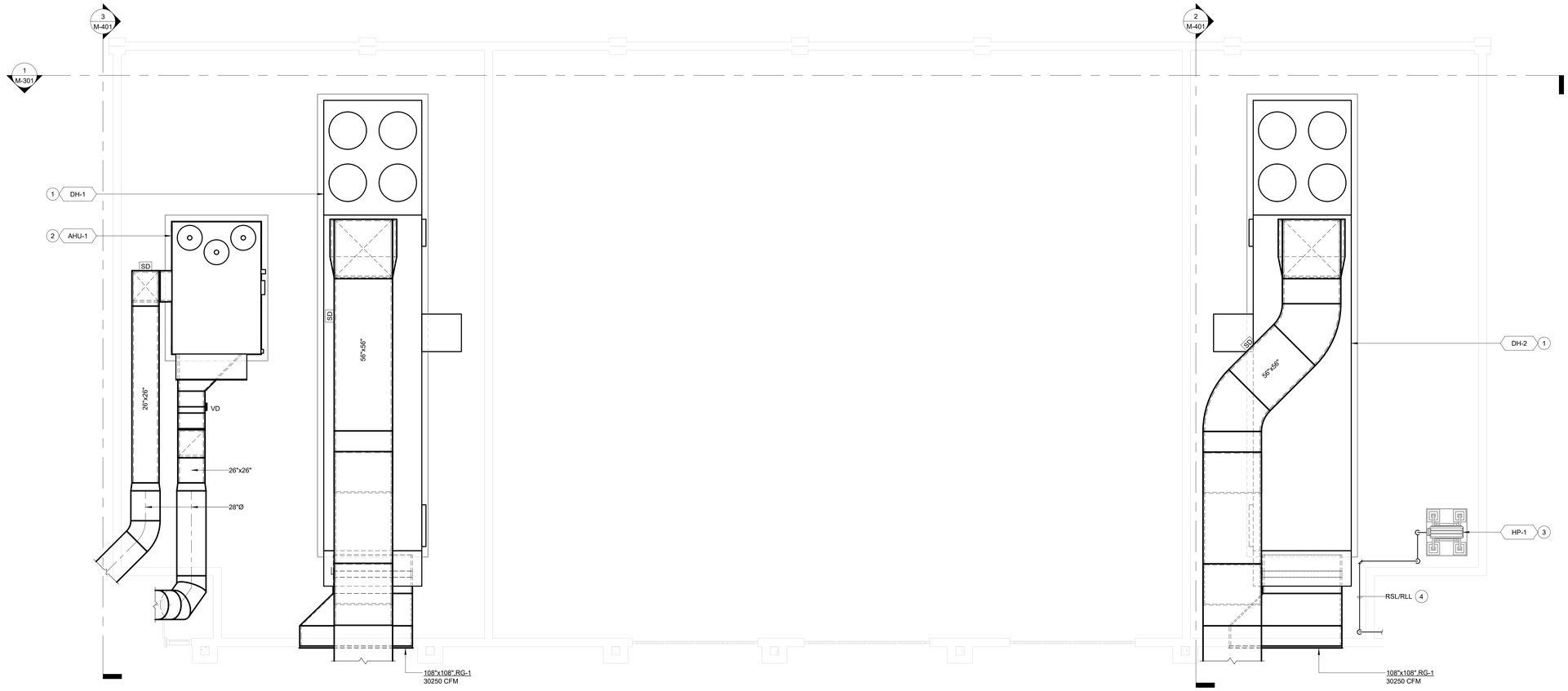
2 MECHANICAL SECTION C
1/4" = 1'-0"

0 2' 4' 8'



3 MECHANICAL SECTION D
1/4" = 1'-0"

0 2' 4' 8'



1 MECHANICAL ENLARGED PLAN 1 - NORTH
1/4" = 1'-0"

0 2' 4' 8'

GENERAL NOTES

A. REFER TO SHEET M-001 FOR MECHANICAL GENERAL NOTES, LEGEND AND SCHEDULES.

B. REFER TO SHEET M-501 FOR MECHANICAL DETAILS.

C. REFER TO SHEET M-601 FOR MECHANICAL SCHEDULES.

D. REFER TO SHEET M-701 AND M-702 FOR MECHANICAL CONTROLS.

E. REFRIGERANT PIPE SIZES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S STANDARD SIZING REQUIREMENTS BASED ON TOTAL EQUIVALENT PIPE LENGTH, ELEVATION CHANGE, AND UNIT CAPACITY.

F. SECTIONS ARE PROVIDED FOR INFORMATION ONLY REGARDING SYSTEM INSTALLATION. CONTRACTOR SHALL INSTALL ALL EQUIPMENT, DUCTWORK, AND PIPING IN ACCORDANCE WITH THE COMPLETE CONTRACT DOCUMENTS.

KEYED NOTES

1. GROUND MOUNTED PACKAGED DEHUMIDIFIER UNIT, TOP/VERTICAL SUPPLY , END/HORIZONTAL RETURN, SIDE EXHAUST, DIRECT EXPANSION COOLING AND AUXILIARY GAS HEATING. PROVIDE FIRST 10' OF SUPPLY AND RETURN DUCT WITH 1" ACOUSTIC LINER. MOUNT UNIT ON A 6" THICK CONCRETE PAD EXTENDING 6" BEYOND THE UNIT ON ALL SIDES. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
2. GROUND MOUNTED PACKAGED AIR-CONDITIONING UNIT, CONSTANT AIR VOLUME, HORIZONTAL DUCTWORK CONNECTIONS, DIRECT EXPANSION COOLING AND INDIRECT GAS HEATING. PROVIDE FIRST 10' OF SUPPLY AND RETURN DUCT WITH 1" ACOUSTIC LINER. MOUNT UNIT ON A 6" THICK CONCRETE PAD EXTENDING 6" BEYOND THE UNIT ON ALL SIDES. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
3. GROUND MOUNTED MINI SPLIT HEAT PUMP UNIT. MOUNT UNIT ON RECTORSEAL "SLAB STAND" AND ON A 6" THICK CONCRETE PAD EXTENDING 6" BEYOND THE UNIT ON ALL SIDES. INSTALL PER MANUFACTURER'S CLEARANCES AND REQUIREMENTS.
4. 1/2" RS AND 1/4 RL REFRIGERANT PIPING. ROUTE ALONG EXTERIOR WALL AND PROVIDE EXPOSED PIPING WITH RECTORSEAL LINESET COVER.

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SHEET TITLE:

MECHANICAL ENLARGED PLANS & SECTIONS

SHEET NO:

M-401

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GENERAL NOTES

A. REFER TO SHEET MXXX FOR DETAILS

B. REFER TO SHEET MXXX AND MXXX FOR GENERAL NOTES, LEGEND AND SCHEDULES.

C. REFER TO SHEET MXXX FOR MECHANICAL CONTROLS.

D. DUCT RUNOUTS SHALL BE EQUAL TO THE DIFFUSER/GRILLE/REGISTER NECK SIZE.

E. CONTRACTOR SHALL COORDINATE ALL MECHANICAL INSTALLATIONS INSIDE CEILING SPACE WITH STRUCTURE, OTHER SERVICES, ETC.

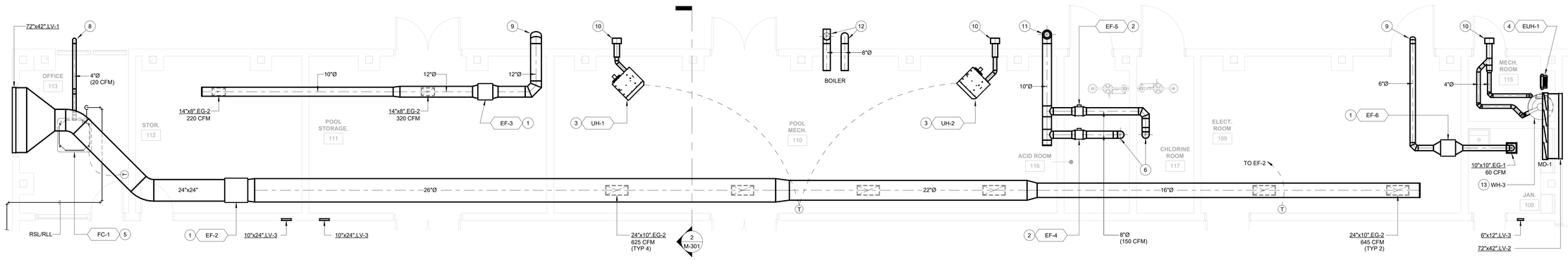
F. COORDINATE ALL DUCTWORK AND PIPING PENETRATIONS THROUGH SPRUNG STRUCTURE.

G. INTERIOR INTAKE LOUVERS (LV-3) SHALL BE INSTALLED WITH THE TOP OF LOUVER ALIGNED WITH TOP OF THE ADJACENT DOOR JAMB.

H. ALL DUCTWORK CONNECTED TO EF-4 AND EF-5 SERVING THE ACID ROOM AND CHLORINE ROOM EXHAUST SYSTEMS SHALL BE FABRICATED FROM FRP MATERIAL.

KEYED NOTES

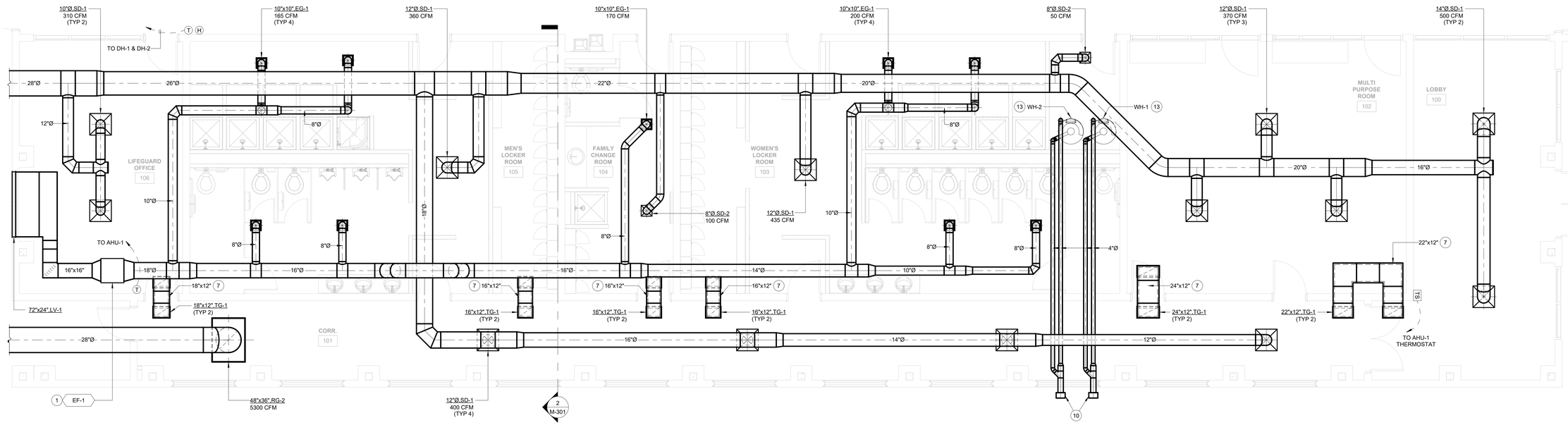
1. CEILING SUSPENDED RECTANGULAR INLINE EXHAUST FAN. MIXED FLOW / CENTRIFUGAL WHEEL, BACKDRAFT DAMPER, END DUCT CONNECTIONS. INSTALL PER MANUFACTURER'S STANDARDS, REQUIREMENTS AND DETAIL ON DETAIL SHEET.
2. CEILING SUSPENDED ROUND INLINE EXHAUST FAN, AXIAL FLOW, COMPOSITE RESIN PLASTIC BODY AND WHEEL, BACKDRAFT DAMPER, END DUCT CONNECTIONS. INSTALL PER MANUFACTURER'S STANDARDS, REQUIREMENTS AND DETAIL ON DETAIL SHEET.
3. CEILING SUSPENDED GAS UNIT HEATER, SEPARATED COMBUSTION, LOW STATIC AXIAL FAN, HORIZONTAL DISCHARGE. EXTEND 4"Ø COMBUSTION AIR AND 4"Ø VENT DUCTS TO CONCENTRIC ADAPTER BOX. INSTALL PER MANUFACTURER'S STANDARDS, REQUIREMENTS AND DETAIL ON DETAIL SHEET.
4. CEILING SUSPENDED ELECTRIC UNIT HEATER, VERTICAL CONFIGURATION, HORIZONTAL DISCHARGE. INSTALL PER MANUFACTURER'S STANDARDS, REQUIREMENTS, AND DETAIL ON DETAIL SHEET.
5. CEILING CASSETTE MINI-SPLIT DUCTLESS FAN COIL UNIT, 4-WAY THROW, INTEGRAL CONDENSATE PUMP. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
6. ROUTE EXHAUST DUCT DOWN ALONG WALL AND TERMINATE 6" ABOVE FINISHED FLOOR. PROVIDE PLASTIC WIRE MESH AT INLET.
7. TRANSFER DUCT WITH 1" ACOUSTIC LINER. CONNECT BOTH ENDS TO CEILING MOUNTED TRANSFER GRILLES. INSTALL PER DETAIL ON DETAIL SHEET.
8. TERMINATE INTAKE DUCT WITH A DOWNWARD 90° ELBOW. PROVIDE BIRDSCREEN AT OPENING.
9. TERMINATE EXHAUST DUCT WITH A DOWNWARD 45° ELBOW. PROVIDE BIRDSCREEN AT OPENING.
10. HORIZONTAL CONCENTRIC VENT THROUGH EXTERIOR WALL. INSTALL PER MANUFACTURER'S STANDARDS AND REQUIREMENTS.
11. TERMINATE EXHAUST DUCT WITH A VERTICAL PLASTIC DISCHARGE NOZZLE. PROVIDE BIRDSCREEN AT OPENING.
12. TERMINATE VENT DUCT WITH A HORIZONTAL 90° ELBOW, MINIMUM 2' ABOVE THE COMBUSTION AIR INTAKE. TERMINATE COMBUSTION AIR INTAKE WITH A DOWNWARD 90° ELBOW. PROVIDE BIRDSCREENS AT ALL OPENINGS.
13. EXTEND 4"Ø COMBUSTION AIR AND 4"Ø VENT DUCTS FROM WATER HEATER TO CONCENTRIC VENT THROUGH EXTERIOR WALL.



2 MECHANICAL ENLARGED PLAN 3 - EAST

1/4" = 1'-0"

0 2' 4' 8'



1 MECHANICAL ENLARGED PLAN 2 - WEST

1/4" = 1'-0"

0 2' 4' 8'

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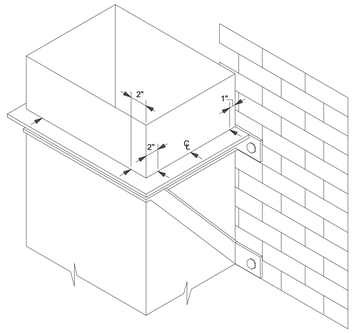
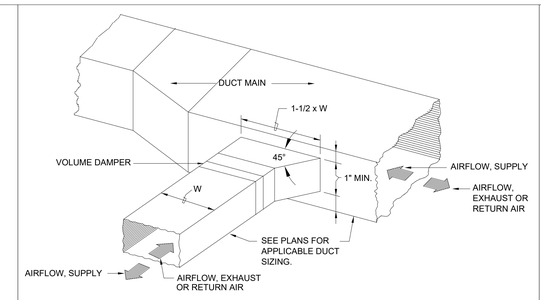


NOTES:
1. BRACKETS ARE SIZED FOR 12 FEET OF DUCT MAXIMUM.
2. LOCATE DUCTS AGAINST WALL OR MAXIMUM OF 2" AWAY FROM WALL.
3. EACH WALL SHALL SATISFY THE FOLLOWING CRITERIA UNLESS OTHER ANALYSIS IS MADE,
4. TENSILE LOAD = 3/8" DUCT WEIGHT; SAFETY FACTOR 4,

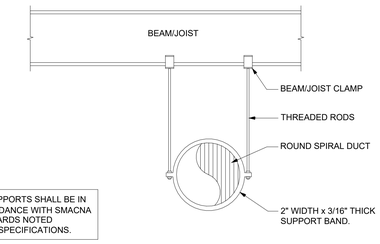
DUCT RISER ALONG WALL DETAIL

SCALE: NONE



BRANCH DUCT TAKE-OFF DETAIL

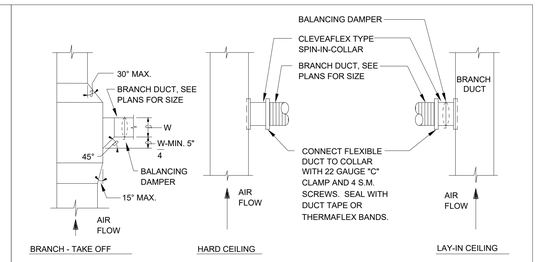
SCALE: NONE

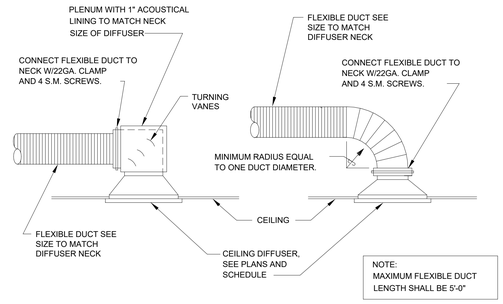


ALL SUPPORTS SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS NOTED IN THE SPECIFICATIONS.

EXPOSED SUSPENDED DUCTWORK DETAIL

SCALE: NONE

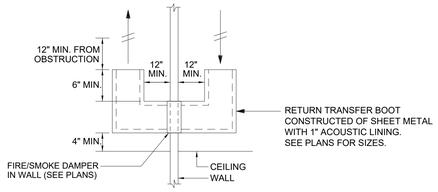




NOTE:
MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0"

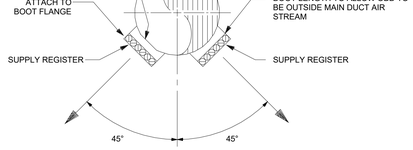
DIFFUSER CONNECTION DETAIL

SCALE: NONE



RETURN TRANSFER BOOT DETAIL 1

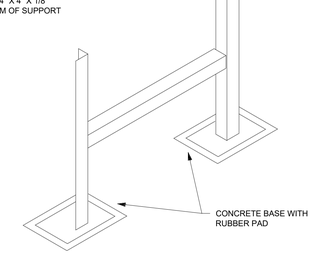
SCALE: NONE



SUPPLY REGISTER MOUNT DETAIL

SCALE: NONE

CONSTRUCTION MATERIAL 1-1/2" X 1-1/2" X 1/8" WELDED STEEL ANGLE IRON WITH 4" X 4" X 1/8" ANCHOR PADS WELDED TO BOTTOM OF SUPPORT LEGS.



DUCT SUPPORT DETAIL

SCALE: NONE

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MECHANICAL DETAILS

SHEET NO:
M-501

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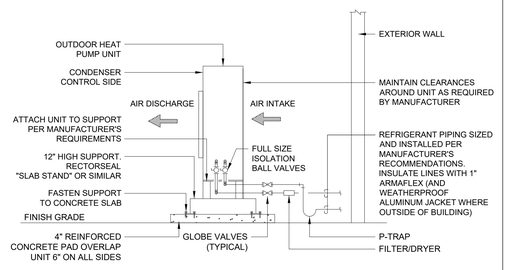
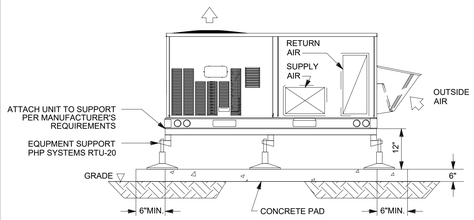


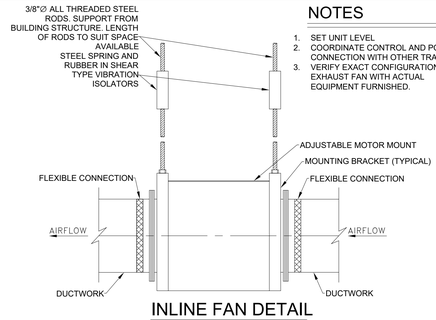
MINI-SPLIT HP UNIT PIPING DETAIL

SCALE: NONE



GROUND MOUNTED PACKAGED AC UNIT DETAIL

SCALE: NONE

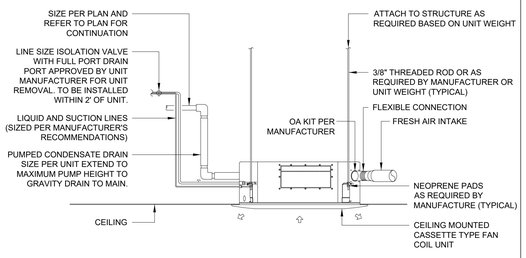


NOTES

1. SET UNIT LEVEL
2. COORDINATE CONTROL AND POWER CONNECTION WITH OTHER TRADES.
3. VERIFY EXACT CONFIGURATION OF EXHAUST FAN WITH ACTUAL EQUIPMENT FURNISHED.

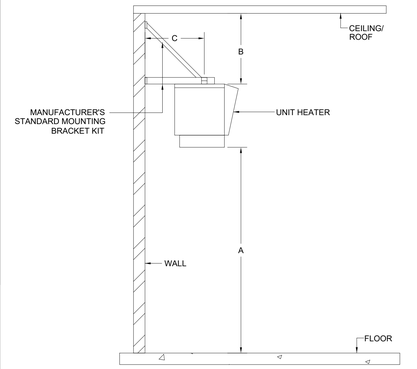
INLINE FAN DETAIL

SCALE: NONE



CEILING CASSETTE FCU DETAIL

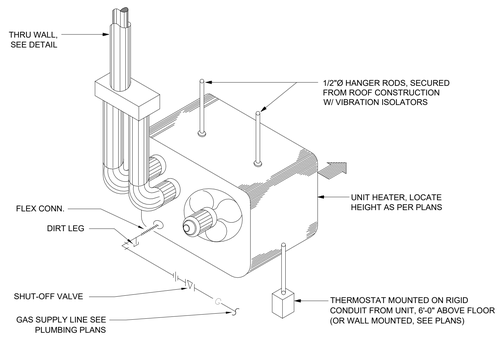
SCALE: NONE



HEATER SIZE	A	B	C
5 TO 15 KW	72"	10"	14"
20 TO 30 KW	72"	10"	14"

UNIT HEATER MOUNTING DETAIL

SCALE: NONE



GAS FIRED UNIT HEATER DETAIL

SCALE: NONE

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ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
CHECKED BY: WAY
SHEET TITLE:

MECHANICAL DETAILS

SHEET NO:
M-502

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FAN SCHEDULE

MARK	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN TYPE	CFM	ESP (IN.WG)	MOTOR HP	ELECTRICAL DATA			WEIGHT (LBS)
							V / PH / HZ	MCA	MOCP	
EF-1	GREENHECK / SQ-130-VG	105 MENS LR 104 FAMILY CR 103 WOMENS LR	INLINE CENTRIFUGAL EXHAUST FAN, SQUARE, DIRECT DRIVE	1650	0.90	1	208 / 1 / 60	10.0	15	70
EF-2	GREENHECK / SQ-160-VG	110 POOL MECH 109 ELECTRICAL RM	INLINE CENTRIFUGAL EXHAUST FAN, SQUARE, DIRECT DRIVE	3800	0.90	2	208 / 1 / 60	15.6	25	160
EF-3	GREENHECK / SQ-99-VG	112 STRORAGE RM 111 POOL STOR RM	INLINE CENTRIFUGAL EXHAUST FAN, SQUARE, DIRECT DRIVE	550	0.45	1/4	115 / 1 / 60	4.8	15	55
EF-4	FANTECH / PRIOAIR 8 EC	116 ACID ROOM	INLINE EXHAUST DUCT FAN, ROUND, DIRECT DRIVE, PLASTIC BODY	150	0.30	125 W	115 / 1 / 60	2.25	15	10
EF-5	FANTECH / PRIOAIR 8 EC	117 CHLORINE RM	INLINE EXHAUST DUCT FAN, ROUND, DIRECT DRIVE, PLASTIC BODY	150	0.3	125 W	115 / 1 / 60	2.25	15	10
EF-6	GREENHECK / SQ-70-VG	108 JANITOR RM	INLINE CENTRIFUGAL EXHAUST FAN, SQUARE, DIRECT DRIVE	60	0.30	1/15	115 / 1 / 60	1.6	15	30

NOTES:
1. FANS ARE SELECTED AT 4200 FT ABOVE SEA LEVEL.
2. PROVIDE ALL FANS WITH VIBRATION ISOLATION.
3. PROVIDE ALL FANS WITH MOTORIZED BACKDRAFT DAMPERS. (EF-4 AND EF-5 WITH GRAVITY BACKDRAFT DAMPERS)
4. PROVIDE EACH DIRECT DRIVE FAN WITH SPEED CONTROLLER MOUNTED ON FAN HOUSING.
5. EF-1, EF-3, AND EF-6 SHALL BE SHALL BE SWITCHED WITH TIME CLOCK PROVIDED AND WIRED BY DIVISION 26. REFER TO ELECTRICAL DRAWINGS.
6. DIVISION 23 SHALL PROVIDE EF-2 WITH LOW VOLTAGE RELAY AND SHALL INTERLOCK EF-2 WITH WALL MOUNTED, COOLING ONLY, LOW VOLTAGE THERMOSTAT.
7. DIVISION 26 SHALL INTERLOCK EF-4 AND EF-5 WITH WALL-MOUNTED ON/OFF SWITCH. REFER TO ELECTRICAL DRAWINGS.
8. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BYNEC ARTICLE 110.
9. REFER TO SEQUENCE OF CONTROLS.

APPROVED EQUIVALENT MANUFACTURER: COOK, TWIN CITY, OR APPROVED EQUAL.

ELECTRIC UNIT HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL NO.	AREA SERVED	CFM	TEMP. RISE (°F)	HEATING CAPACITY		ELECTRICAL DATA			WEIGHT (LBS)
					(BTUH)	(KW)	V / PH / HZ	FLA	MOCP	
EUH-1	REZNOR / EUHC 3	115 MECH ROOM	340	25	10200	3.0	208 / 1 / 60	14.7	20	35

NOTES:
1. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FEET ABOVE SEA LEVEL.
2. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF UNITS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.

ACESSORIES:
1. PROVIDE UNIT WITH AUTOMATIC RESET HIGH TEMPERATURE CUTOUT AND AUTOMATIC RESET AIR PROVING SWITCH.
2. ADJUSTABLE HORIZONTAL LOUVERS.
3. ADJUSTABLE SUSPENSION KIT ASSEMBLY.
4. 24-VOLT TRANSFORMER.
5. WALL-MOUNTED, LOW VOLTAGE, SINGLE STAGE THERMOSTAT AND SUMMER/WINTER SWITCH.

APPROVED EQUIVALENT MANUFACTURER: QMARK, BERKO, MODINE, OR APPROVED EQUAL.

GAS FIRED UNIT HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL NO.	AREA SERVED	CFM	TEMP. RISE (°F)	HEATING DATA		ELECTRICAL DATA			WEIGHT (LBS)
					INPUT (MBH)	OUTPUT (MBH)	V / PH / HZ	FLA	MOCP	
UH-1	REZNOR / UDXC 45	110 POOL MECHANICAL RM	630	40	45	27	115 / 1 / 60	2.4	15	70
UH-2	REZNOR / UDXC 45	110 POOL MECHANICAL RM	630	40	45	27	115 / 1 / 60	2.4	15	70

NOTES:
1. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FEET ABOVE SEA LEVEL. PROVIDE PROPER BURNERS AND ORIFICES FOR SITE ELEVATION.
2. MOUNT BOTTOM OF UNIT 10'-0" A.F.F. VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF UNITS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
4. HEATING INPUT DATA AT SEA LEVEL AND HEATING OUTPUT DATA AT SITE ELEVATION.
5. UNIT SHALL HAVE A MINIMUM THERMAL EFFICIENCY OF 83%.

ACCESSORIES:
1. HIGH ALTITUDE KIT AS REQUIRED FOR SITE ELEVATION.
2. ADJUSTABLE HORIZONTAL LOUVERS.
3. ELECTRIC SPARK IGNITED SAFETY PILOT.
4. WALL-MOUNTED SINGLE STAGE THERMOSTAT AND SUMMER/WINTER SWITCH.
5. 24-VOLT TRANSFORMER.
6. ADJUSTABLE SUSPENSION KIT.
7. SINGLE STAGE GAS COMBINATION GAS VALVE AND CONTROL.
8. SEPARATED COMBUSTION CONVERSION KIT.
9. HORIZONTAL COMBUSTION AIR/VENT TERMINAL KIT WITH CONCENTRIC ADAPTER BOX.

APPROVED EQUIVALENT MANUFACTURER: QMARK, BERKO, MODINE, OR APPROVED EQUAL.

DESTRATIFICATION FAN SCHEDULE

MARK	MANUFACTURER/ MODEL NO.	AREA SERVED	FAN TYPE	CFM	FAN DIA. (FT)	NO. OF BLADES	AIR VELOCITY (FPM)	MOTOR HP	ELECTRICAL DATA			WEIGHT (LBS)
									V / PH / HZ	FLA	MOCP	
HVLS-1	GREENHECK / DS-6-24	107 INTERIOR DECK	HIGH VOLUME, LOW SPEED CEILING FAN	140,000	24	6	250	1.5	208 / 3 / 60	12	15	270
HVLS-2	GREENHECK / DS-6-24	107 INTERIOR DECK	HIGH VOLUME, LOW SPEED CEILING FAN	140,000	24	6	250	1.5	208 / 3 / 60	12	25	270

NOTES:
1. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FT ABOVE SEA LEVEL.
2. PROVIDE WITH MANUFACTURER'S STANDARD MOUNTING KIT WITH GUY WIRES.
3. HI-PRO POLYESTER POWDER COATING.
4. INTEGRAL VFD.
5. WALL-MOUNTED MULTI-SPEED CONTROLLER.
6. DIVISION 23 SHALL INTERLOCK EACH HVLS FAN WITH WALL MOUNTED CONTROLLER.
7. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BYNEC ARTICLE 110.

APPROVED EQUIVALENT MANUFACTURER: BIG ASS FANS, HUNTER INDUSTRIAL FANS, OR APPROVED EQUAL.

PACKAGED AIR CONDITIONING UNIT SCHEDULE

MARK	MANUFACTURER / MODEL NO.	SUPPLY FAN DATA			COOLING DATA				GAS HEATING DATA				OUTSIDE AIRFLOW (CFM)	OUTSIDE AIR TEMP. °F		EER	ELECTRICAL DATA			WEIGHT (LBS)
		CFM	ESP (IN)	HP	TOTAL MBH	SENSIBLE MBH	EAT °F DB/WB	LAT °F DB/WB	INPUT MBH	OUTPUT MBH	EAT °F	TEMP. RISE °F		SUMMER DB/WB	WINTER DB		V / PH / HZ	MCA	MOCP	
AHU-1	CARRIER / 48GE17	5300	1.35	5	137	125	82.5 / 52.3	55.0 / 52.7	400	225	56.0	49	1650	99 / 63	25	11.8	460 / 3 / 60	41	50	2200

NOTES:
1. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FEET ABOVE SEA LEVEL. PROVIDE PROPER BURNERS AND ORIFICES FOR SITE ELEVATION.
2. INDOOR FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS.
3. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE ANY PRESSURE DROP ASSOCIATED WITH ROOFTOP UNIT ACCESSORIES.
4. PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
5. PROVIDE R-454B REFRIGERANT.
6. HEATING INPUT DATA AT SEA LEVEL AND HEATING OUTPUT DATA AT SITE ELEVATION.
7. EACH UNIT SHALL HAVE SIDE (HORIZONTAL) DUCT CONNECTIONS.
8. UNITS SHALL MEET 2018 IECC COMMERCIAL ENERGY EFFICIENCY PARAMETERS.

ACCESSORIES:
1. FACTORY WIRED TO ALLOW SINGLE-POINT POWER CONNECTION TO UNIT.
2. HIGH GAS HEAT WITH STAINLESS STEEL HEAT EXCHANGER.
3. LOW-LEAK ECONOMIZER WITH DRY BULB TEMPERATURE SENSOR AND BAROMETRIC RELIEF.
4. OUTSIDE AIR HOOD WITH MOTORIZED DAMPER. DAMPER SHALL CLOSE WHEN INDOOR FAN IS OFF.
5. UNPOWERED 20A CONVENIENCE OUTLET.
6. LOW AMBIENT CONTROLS.
7. HIGH ALTITUDE KIT.
8. CONDENSER COIL HAIL GUARD ASSEMBLY.
9. MINIMUM 2" MERV 13 FILTERS WITH STANDARD PANELS.
10. SUPPLY AIR SMOKE DETECTOR WITH CONTROLS.
11. COMPRESSOR SHORT CYCLE PROTECTION.
12. SUPPLY AIR SMOKE DETECTOR.
13. FAN FILTER STATUS SWITCH.
14. ELECTRONIC PROGRAMMABLE THERMOSTAT WITH AUTO HEAT/COOL SWITCHOVER AND KEYPAD LOCKOUT CAPABILITY. ALL CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 23.

APPROVED EQUIVALENT MANUFACTURER: TRANE, YORK, AAON, OR APPROVED EQUAL.

DEHUMIDIFIER UNIT SCHEDULE

MARK	MANUFACTURER / MODEL NO.	SUPPLY FAN DATA			COOLING DATA					GAS HEATING DATA				OUTSIDE AIRFLOW (CFM)	EXHAUST FAN DATA			ELECTRICAL DATA		
		CFM	ESP (IN)	HP	TOTAL MBH	SENSIBLE MBH	EAT °F DB/WB	OFF COIL °F DB/WB	LAT °F DB/WB	INPUT MBH	OUTPUT MBH	EAT °F	TEMP. RISE °F		CFM	ESP (IN)	HP	V / PH / HZ	MCA	MOCP
DH-1	DESERTAIRE / SELECTAIRE SP70PPG40	35000	1.75	15	800	340	86. 9 / 72.1	55.0 / 54.5	67.3 / 58.8	800	540	76.9	18	4250	4750	0.4	2 x 8	460 / 3 / 60	210	250
DU-2	DESERTAIRE / SELECTAIRE SP70PPG40	35000	1.75	15	800	340	86.9 / 72.1	55.0 / 54.5	67.3 / 58.8	800	540	76.9	18	4250	4750	0.4	2 x 8	460 / 3 / 60	210	250

NOTES:
1. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FEET ABOVE SEA LEVEL. PROVIDE PROPER BURNERS AND ORIFICES FOR SITE ELEVATION.
2. INDOOR FAN SHALL RUN CONTINUOUSLY DURING OCCUPIED PERIODS.
3. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE ANY PRESSURE DROP ASSOCIATED WITH ROOFTOP UNIT ACCESSORIES.
4. PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
5. PROVIDE R-454B REFRIGERANT.
6. HEATING INPUT DATA AT SEA LEVEL AND HEATING OUTPUT DATA AT SITE ELEVATION.
7. EACH UNIT SHALL HAVE A HORIZONTAL RETURN AND TOP SUPPLY DUCT CONNECTIONS.
8. EACH UNIT SHALL HAVE A MINIMUM MOISTURE REMOVAL CAPACITY OF 425 LB/HR.
9. PACKAGED AIR-COOLED CONDENSER.

ACCESSORIES:
1. WRAP AROUND HEAT PIPE.
2. 4" MERV 13 FILTERS.
3. WALL MOUNTED TEMPERATURE AND HUMIDITY SENSORS.
4. CHEMICAL AND CORROSION RESISTANT COATING ON COILS.
5. AUXILIARY MODULATING GAS HEATING MODULE.
6. DUCT MOUNTED SUPPLY AIR SMOKE DETECTOR.
7. DUCT MOUNTED RETURN AIR VOC SENSOR.
8. FACTORY WIRED TO ALLOW SINGLE-POINT POWER CONNECTION TO UNIT.
9. HIGH ALTITUDE KIT.
10. COMPRESSOR SHORT CYCLE PROTECTION.
11. LOW AMBIENT CONTROLS.
12. EXHAUST AND OUTSIDE AIR MOTORIZED DAMPERS. DAMPERS SHALL CLOSE WHEN INDOOR FAN IS OFF.

APPROVED EQUIVALENT MANUFACTURER: AAON, MUNTERS, POOLPAK

MINI-SPLIT FAN COIL UNIT SCHEDULE

MARK	MANUFACTURER / MODEL NO.	TYPE	SPACE SERVED	CFM	EAT DB/WB (°F)	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	ELECTRICAL DATA			WEIGHT (LBS)
								V / PH / HZ	MCA	MOCP	
FC-1	CARRIER / 45MBCQ18	CEILING CASSETTE	113 OFFICE	560	76 / 62 (68 HEATING)	14500	14000	208 / 1 / 60	SEE NOTE 2		60

NOTES:
1. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NFPA 70.
2. DIVISION 26 SHALL EXTEND LINE VOLTAGE ELECTRICAL SERVICE TO FAN COIL UNIT FROM ASSOCIATED CONDENSING HEAT PUMP UNIT.
3. PROVIDE REFRIGERANT CHANNEL AND INSULATION ON WALL FOR ALL PIPES.
4. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FT ABOVE SEA LEVEL.

ACCESSORIES:
1. WALL MOUNTED WIRED ELECTRONIC PROGRAMMABLE THERMOSTAT.
2. CLEANABLE FILTERS.
3. BUILT-IN CONDENSATE PUMP.

APPROVED EQUIVALENT MANUFACTURER: DAIKIN, MITSUBISHI, OR APPROVED EQUAL.

MINI-SPLIT HEAT PUMP UNIT SCHEDULE

MARK	MANUFACTURER / MODEL NO.	FCU SERVED	COOLING CAPACITY (BTUH)	HEATING CAPACITY (BTUH)	OUTSIDE AIR TEMP (°F)	EER2	ELECTRICAL DATA			WEIGHT (LBS)
							V / PH / HZ	MCA	MOCP	
HP-1	CARRIER / 37MAHQ18	FC-1	14500	14000	99 - SUMMER 25 - WINTER	12.5	208 / 1 / 60	19	20	110

NOTES:
1. SIZE AND INSTALL REFRIGERANT PIPING BETWEEN CONDENSING UNITS AND ASSOCIATED AIR-CONDITIONING UNIT ACCORDING TO MANUFACTURER'S REQUIREMENTS. PIPING SHALL NOT EXCEED LENGTH ALLOWED BY MANUFACTURER.
2. PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED, INCLUDING ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
3. PROVIDE CRANKCASE HEATER AND/OR FILTER DRIER AS RECOMMENDED BY MANUFACTURER.
4. ALL CONDENSING UNIT/HEAT PUMP UNIT CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY DIVISION 23.
5. EER RATING LISTED IN FOR CONDENSING UNIT PAIRED WITH ASSOCIATED AIR-CONDITIONING UNIT.
6. UNITS ARE SELECTED AT AN ELEVATION OF 4200 FT ABOVE SEA LEVEL.
7. R-454B REFRIGERANT TYPE.
8. MOUNT UNIT LEVEL ON EQUIPMENT SUPPORTS.

APPROVED EQUIVALENT MANUFACTURER: DAIKIN, MITSUBISHI, OR APPROVED EQUAL.

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ASA PROJECT NO.: 22131L
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SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NO:
M-601

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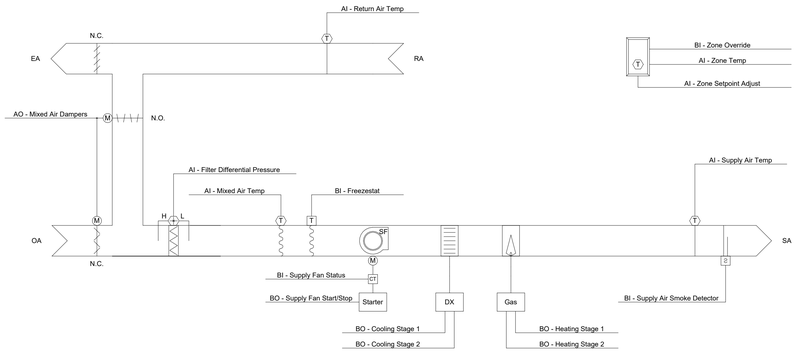


PACKAGED AIR-CONDITIONING UNIT: (AHU-1)

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 75°F (ADJ.) COOLING SETPOINT
  - A 70°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 85°F (ADJ.) COOLING SETPOINT.
  - A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

ZONE UNOCCUPIED OVERRIDE:
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

SUPPLY AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

COOLING STAGES:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ECONOMIZER (IF PRESENT) IS DISABLED OR FULLY OPEN.
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING IS NOT ACTIVE.

GAS HEATING STAGES:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE COOLING IS NOT ACTIVE.

ECONOMIZER:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F LESS THAN THE ZONE COOLING SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

THE ECONOMIZER SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.),
- AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE.
- AND THE SUPPLY FAN STATUS IS ON.

THE ECONOMIZER SHALL CLOSE WHENEVER:
- MIXED AIR TEMPERATURE DROPS FROM 45°F TO 40° F (ADJ.).
- OR ON LOSS OF SUPPLY FAN STATUS.
- OR THE FREEZESTAT (IF PRESENT) IS ON.

THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE, THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE AIR DAMPER SHALL MODULATE TO FULLY CLOSED.

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE:
THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM POSITION (ADJ.) DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.

FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FINAL FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

MIXED AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

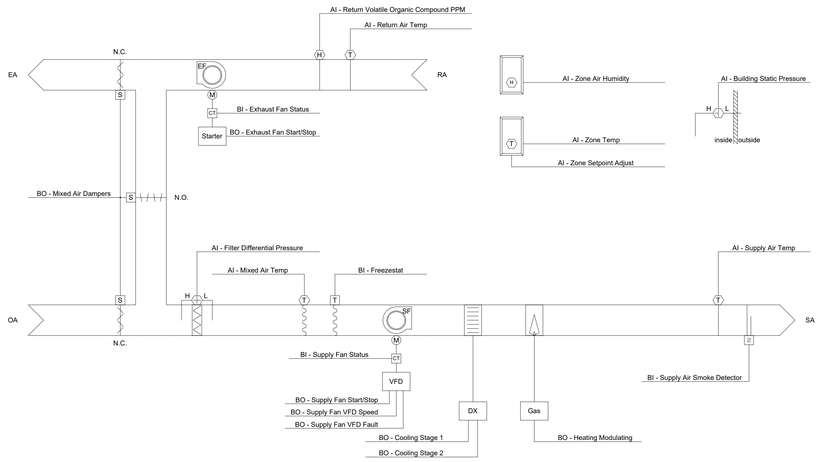
RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

1 PACKAGED AIR-CONDITIONING UNIT CONTROLS SCHEMATIC
NTS

GENERAL CONTROL NOTES
(APPLICABLE TO ALL CONTROL SHEETS)

1. THE ENTIRE CONTROL SYSTEM SHALL BE FULLY OPERATIONAL, WHICH INCLUDES COMPLETE INTEGRATION WITH ALL EQUIPMENT NOTED HEREIN, WITH BUILDING CONTROL SYSTEM AND SIGN OFF HAS BEEN GIVEN BY THE ENGINEER. POWER REQUIREMENTS SHALL BE COORDINATED WITH ELECTRICAL DRAWINGS.
2. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, WIRING, CONTACTORS, STARTERS, SWITCHES, DAMPERS, CONTROL VALVES, THERMOSTATS, CONTROL PANELS, VFD'S. ETC. UNLESS NOTED TO BE PROVIDED BY OTHERS.
3. CONTROLS CONTRACTOR SHALL BE TOTALLY RESPONSIBLE TO MEET THE SEQUENCES OF CONTROL AND ALL RELATED CONTROLS CALLED OUT ON THE PLANS AND IN THE SPECIFICATIONS AND ANY LINE VOLTAGE.
4. CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL CONTROL WIRING (LOW VOLTAGE). ELECTRICAL AND WILL PROVIDE POWER FOR CONTROLS TO MECHANICAL EQUIPMENT. AT THAT POINT IF CONTROLS CONTRACTOR DESIRES ADDITIONAL LINE VOLTAGE WIRING SHALL BE BY CONTROLS CONTRACTOR.
5. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT MIN. CONDUIT SIZE SHALL BE 1/2".
6. CONTROLS CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ANY & ALL MATERIALS, EQUIPMENT, CONDUIT, ETC.
7. VERIFY ALL VOLTAGES AND PROVIDE ALL TRANSFORMERS AND CONNECTIONS FOR 120V OR 24V CONTROL DEVICES.
8. CONTROLS CONTRACTOR SHALL IDENTIFY ALL AVAILABLE EQUIPMENT MANUFACTURER'S CONTROL POINTS AND INTEGRATE TO CONTROL SYSTEM THROUGH MS/TP OR IP INTERFACE.



DEHUMIDIFIER UNIT: (DH-1 AND DH-2)

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:
- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 85°F (ADJ.) COOLING SETPOINT
  - A 85°F (ADJ.) HEATING SETPOINT.
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 95°F (ADJ.) COOLING SETPOINT.
  - A 65°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE OPTIMAL START:
THE UNIT SHALL USE AN OPTIMAL START ALGORITHM FOR MORNING START-UP. THIS ALGORITHM SHALL MINIMIZE THE UNOCCUPIED WARM-UP OR COOL-DOWN PERIOD WHILE STILL ACHIEVING COMFORT CONDITIONS BY THE START OF SCHEDULED OCCUPIED PERIOD.

FREEZE PROTECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

SUPPLY AIR SMOKE DETECTION:
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

SUPPLY FAN:
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

EXHAUST FAN:
THE EXHAUST FAN SHALL RUN WHENEVER THE SUPPLY FAN RUNS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- RETURN FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- RETURN FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- RETURN FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

BUILDING STATIC PRESSURE CONTROL:
THE CONTROLLER SHALL MEASURE BUILDING STATIC PRESSURE AND MODULATE THE EXHAUST FAN SPEED TO MAINTAIN A BUILDING STATIC PRESSURE SETPOINT OF 0.05 IN H_2O (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW BUILDING STATIC PRESSURE: IF THE BUILDING AIR STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

COOLING STAGES:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE HEATING IS NOT ACTIVE.

GAS HEATING MODULATION:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:
- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE SUPPLY FAN STATUS IS ON.
- AND THE COOLING IS NOT ACTIVE.

MIXED AIR DAMPERS:
THE MIXED AIR DAMPERS SHALL OPEN TO PROVIDE MINIMUM OUTSIDE AIR VENTILATION ANYTIME THE UNIT IS OCCUPIED. THE MIXED AIR DAMPERS SHALL CLOSE 5SEC (ADJ.) AFTER THE SUPPLY FAN STOPS.

IF OPTIMAL START UP IS AVAILABLE, THE OUTSIDE AIR DAMPER SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN.

MINIMUM OUTSIDE AIR VENTILATION - FIXED PERCENTAGE:
THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM POSITION (ADJ.) DURING BUILDING OCCUPIED HOURS AND BE CLOSED DURING UNOCCUPIED HOURS.

DEHUMIDIFICATION:
THE CONTROLLER SHALL MEASURE THE ZONE AIR HUMIDITY AND OVERRIDE THE COOLING SEQUENCE TO MAINTAIN ZONE AIR HUMIDITY AT OR BELOW 60% RH (ADJ.).

DURING DEHUMIDIFICATION, THE HEATING SHALL MODULATE TO MAINTAIN A SETPOINT 1°F (ADJ.) LESS THAN THE ZONE COOLING SETPOINT.

DEHUMIDIFICATION SHALL BE ENABLED WHENEVER:
- THE SUPPLY FAN STATUS IS ON.
- AND ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT.

FILTER DIFFERENTIAL PRESSURE MONITOR:
THE CONTROLLER SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- FILTER CHANGE REQUIRED: FILTER DIFFERENTIAL PRESSURE EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

RETURN AIR VOLATILE ORGANIC COMPOUND (VOC) CONCENTRATION MONITORING:
THE CONTROLLER SHALL MEASURE THE RETURN AIR VOC CONCENTRATION.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR VOLATILE ORGANIC COMPOUND CONCENTRATION: IF THE RETURN AIR VOC CONCENTRATION IS GREATER THAN 1000PPM (ADJ.) WHEN IN THE OCCUPIED MODE.

RETURN AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 95°F (ADJ.).
- LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).

SUPPLY AIR TEMPERATURE:
THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).

2 DEHUMIDIFIER UNIT CONTROLS SCHEMATIC
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FOR: CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
CHECKED BY: WAY
SHEET TITLE:

MECHANICAL CONTROLS

SHEET NO:
M-701

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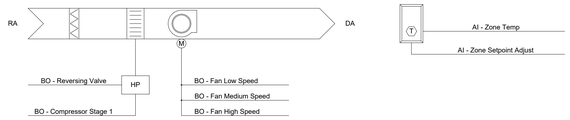


MINI-SPLIT HEAP PUMP UNIT: (HP-1 AND FC-1)

RUN CONDITIONS - SCHEDULED:
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

- OCCUPIED MODE: THE UNIT SHALL MAINTAIN
  - A 75°F (ADJ.) COOLING SETPOINT
  - A 70°F (ADJ.) HEATING SETPOINT
- UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN
  - A 85°F (ADJ.) COOLING SETPOINT.
  - A 55°F (ADJ.) HEATING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).
- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

FAN:
THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. THE FAN SPEEDS SHALL BE INDEXED AS FOLLOWS:

- LOW SPEED SHALL RUN ANYTIME THE ZONE TEMPERATURE IS WITHIN SETPOINTS.
- MEDIUM SPEED SHALL RUN ANYTIME THE ZONE TEMPERATURE IS OUTSIDE OF SETPOINTS.
- HIGH SPEED SHALL RUN ANYTIME THE ZONE TEMPERATURE IS OUTSIDE OF SETPOINTS BY A USER DEFINABLE AMOUNT (ADJ.).

HEATING AND COOLING - 1 COMPRESSOR STAGE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND CYCLE THE COMPRESSOR TO MAINTAIN ITS SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME. THE COMPRESSOR SHALL RUN SUBJECT TO ITS OWN INTERNAL SAFETIES AND CONTROLS.

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE FAN IS ON.
- AND THE REVERSING VALVE IS IN HEAT MODE.

THE COOLING SHALL BE ENABLED WHENEVER:

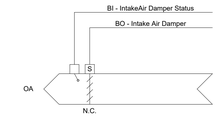
- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE FAN IS ON.
- AND THE REVERSING VALVE IS IN COOL MODE.

ON MODE CHANGE, THE COMPRESSOR SHALL BE DISABLED AND REMAIN OFF UNTIL AFTER THE REVERSING VALVE HAS CHANGED POSITION..

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- COMPRESSOR RUNTIME EXCEEDED: THE COMPRESSOR RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

7 MINI-SPLIT HEAT PUMP UNIT CONTROLS SCHEMATIC
NTS



MOTORIZED DAMPER: (MD-1)

RUN CONDITIONS - INTERLOCKED:

INTAKE DAMPER:
THE INTAKE AIR DAMPER SHALL OPEN ANYTIME THE EXHAUST FAN EF-2 RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE INTAKE AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

DAMPER STATUS:
THE FAN SHALL BE ENABLED AFTER THE DAMPER STATUS HAS PROVEN.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

8 MOTORIZED INTAKE DAMPER CONTROLS SCHEMATIC
NTS

DESTRATIFICATION FAN: (HVLS-1 AND HVLS-2)

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.

FAN:
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

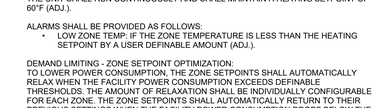
FAN SPEED:
FAN SPEED SHALL MODULATE BASED ON THE WALL-MOUNTED MULTI-SPEED CONTROLLER INPUT.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

4 DESTRATIFICATION FAN CONTROLS SCHEMATIC
NTS



ELECTRIC UNIT HEATER: (EUH-1)

RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN A HEATING SETPOINT OF 60°F (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

DEMAND LIMITING - ZONE SETPOINT OPTIMIZATION:
TO LOWER POWER CONSUMPTION, THE ZONE SETPOINTS SHALL AUTOMATICALLY RELAX WHEN THE FACILITY POWER CONSUMPTION EXCEEDS DEFINABLE THRESHOLDS. THE AMOUNT OF RELAXATION SHALL BE INDIVIDUALLY CONFIGURABLE FOR EACH ZONE. THE ZONE SETPOINTS SHALL AUTOMATICALLY RETURN TO THEIR PREVIOUS SETTINGS WHEN THE FACILITY POWER CONSUMPTION DROPS BELOW THE THRESHOLDS.

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

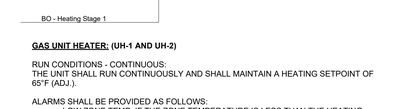
FAN:
THE FAN SHALL RUN ANYTIME THE ZONE TEMPERATURE DROPS BELOW HEATING SETPOINT, UNLESS SHUTDOWN ON SAFETIES.

ELECTRIC HEATING STAGE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN IS ON.

5 ELECTRIC UNIT HEATER CONTROLS SCHEMATIC
NTS



GAS UNIT HEATER: (UH-1 AND UH-2)

RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN A HEATING SETPOINT OF 65°F (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- LOW ZONE TEMP: IF THE ZONE TEMPERATURE IS LESS THAN THE HEATING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

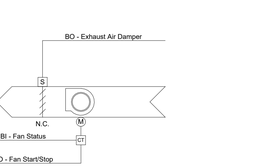
FAN:
THE FAN SHALL RUN ANYTIME THE ZONE TEMPERATURE DROPS BELOW HEATING SETPOINT, UNLESS SHUTDOWN ON SAFETIES.

GAS HEATING STAGE:
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE ZONE TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN IS ON.

6 GAS UNIT HEATER CONTROLS SCHEMATIC
NTS



EXHAUST FAN: (EF-1, EF-3, AND EF-6)

RUN CONDITIONS - SCHEDULED:
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.

FAN:
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

EXHAUST AIR DAMPER:
THE EXHAUST AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

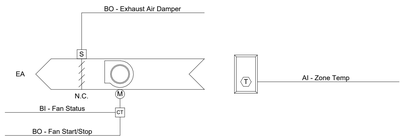
- DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

1 EXHAUST FAN CONTROLS SCHEMATIC 1
NTS



EXHAUST FAN: (EF-2)

RUN CONDITIONS - CONTINUOUS:
THE UNIT SHALL BE CONTINUOUSLY ENABLED TO MAINTAIN A ZONE TEMPERATURE COOLING SETPOINT OF 78°F (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

FAN:
THE FAN SHALL RUN ANYTIME THE ZONE TEMPERATURE RISES ABOVE COOLING SETPOINT, UNLESS SHUTDOWN ON SAFETIES.

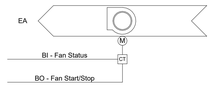
EXHAUST AIR DAMPER:
THE EXHAUST AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

2 EXHAUST FAN CONTROLS SCHEMATIC 2
NTS



EXHAUST FAN: (EF-4 AND EF-5)

RUN CONDITIONS - INTERLOCKED:
THE FAN SHALL BE CONTROLLED BY A ON-OFF SWITCH.

FAN STATUS:
THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

3 EXHAUST FAN CONTROLS SCHEMATIC 3
NTS

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FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

ASA PROJECT NO.:	22131L
PROJECT NO:	
DRAWN BY:	JCT
CHECKED BY:	WAY

SHEET TITLE:

MECHANICAL CONTROLS

SHEET NO:

M-702

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PLUMBING SYMBOL LEGEND

NOTES

1. ALL SYMBOLS, ABBREVIATIONS, AND DESIGNATIONS ON LEGEND SHEET ARE NOT NECESSARILY USED ON THIS PROJECT.
2. THIS DRAWING SET CONSISTS OF DATA GENERATED, IN PART, BY OTHER PARTIES. NOT ALL SYMBOLOGIES AND NOTATION CONVENTIONS OCCURING IN THIS DRAWING SET ARE NECESSARILY DEFINED ON THESE LEGENDS. CONSULT THE ENGINEER IN THE EVENT SYMBOLOGY OR NOTATION INTERPRETATION IS REQUIRED.

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
		KEYED NOTES	VTR		VENT THRU ROOF
		EQUIPMENT DESIGNATION			RISER DOWN
		DEMOLISHED ITEM			RISER UP
(E)		EXISTING			VALVE IN RISER
(TYP)		TYPICAL			DROP
BTU		BRITISH THERMAL UNITS			RISER UP
CFH		CUBIC FEET PER HOUR	HB		HOSE BIBB / WALL HYDRANT
CFM		CUBIC FEET PER MINUTE			PIPE GUIDE
DIA	Ø	DIAMETER			DIRECTION OF FLOW
ELV		ELEVATION			SHUT OFF (BALL, GATE, BUTTERFLY)
ESP		EXTERNAL STATIC PRESSURE			GLOBE VALVE
EWT		ENTERING WATER TEMPERATURE			CHECK VALVE
°F		DEGREES FAHRENHEIT			PLUG VALVE
FCO		FLOOR CLEANOUT			BALANCING VALVE
FFE		FINISH FLOOR ELEVATION			TEMPERATURE CONTROL VALVE (2-WAY)
GPH		GALLONS PER HOUR			TEMPERATURE CONTROL VALVE (3-WAY)
HP		HORSE POWER			PRESSURE REDUCING VALVE
INV		INVERT ELEVATION			SOLENOID VALVE
LWT		LEAVING WATER TEMPERATURE			DOUBLE CHECK BACKFLOW PREVENTER
NA		NOT APPLICABLE			RELIEF VALVE
NC		NORMALLY CLOSED			UNION
NO		NORMALLY OPEN			FLANGED CONNECTION
PH		PHASE			PIPE ANCHOR
PSIG		POUNDS PER SQUARE INCH			SAFETY RELIEF VALVE
R		REGISTER WITH OBD			PRESSURE GAUGE WITH PIG TAIL AND COCK
SP		STATIC PRESSURE			THERMOMETER
		POINT OF CONNECTION			STRAINER WITH BLOW-OFF VALVE
		CAP ON END OF PIPE			SHOCK ABSORBER
		CONTINUATION OF PIPE			FLOW SWITCH
		BUTTERFLY VALVE			FLOOR DRAIN
		BALL VALVE			FLOOR SINK
WCO		WALL CLEANOUT			

PLUMBING PIPING DESIGNATION

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
CW		COLD WATER LINE	GW	GW	GREASE WASTE PIPE
HW		HOT WATER LINE	HWR	HWR	HOT WATER RETURN PIPING - COPPER TYPE "L"
V		VENT PIPING	HWS	HWS	HOT WATER SUPPLY PIPING - COPPER TYPE "L"
AW	AW	ACID WASTE PIPE	LPG	LPG	LIQUID PROPANE GAS
AV	AV	ACID VENT PIPE	MPG	MPG	MEDIUM PRESSURE GAS PIPING (2PSI)
C	C	STEAM CONDENSATE PIPING - BLACK STEEL SCHED. 80	MPR	MPR	MEDIUM PRESSURE CONDENSATE RETURN
CA	CA	COMPRESSED AIR	MU	MU	MAKE-UP WATER PIPING
CWR	CWR	COLD WATER RETURN	NPW	NPW	NON POTABLE WATER PIPING
CWS	CWS	COLD WATER SUPPLY	OFL	OFL	OVERFLOW PIPING
F	F	FIRE PROTECTION/LINE	ORD	ORD	OVERFLOW ROOF DRAIN
FOF	FOF	FUEL OIL FILL	PC	PC	PUMP CONDENSATE
FOV	FOV	FUEL OIL VENT	PW	PW	PRESSURIZED WASTE
FOR	FOR	FUEL OIL RETURN	RD	RD	ROOF DRAIN LEADER
FOS	FOS	FUEL OIL SUPPLY	S	S	SANITARY SEWER OR WASTE LINE
G	G	NATURAL GAS PIPING	W	W	COLD WATER SUPPLY
GV	GV	GREASE VENT			

SITE UTILITY SYMBOLS

ABBR.	SYMBOL	DESCRIPTION
F	F	FIRE PROTECTION/LINE
G	G	NATURAL GAS PIPING
IRR	IRR	IRRIGATION
S	S	SANITARY SEWER OR WASTE LINE
SD	SD	STORM DRAIN
W	W	COLD WATER SUPPLY
		VALVE WITH VALVE BOX
		FIRE HYDRANT
		FIRE DEPARTMENT INLET CONNECTION
		THRUST BLOCK
	X X X	FENCING
		POWER POLE / LIGHT POLE
MH	S MH	SANITARY MANHOLE

PLUMBING GENERAL NOTES

A. ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE INSTALLED AND PAINTED AS DIRECTED BY THE ARCHITECT.

B. ALL PIPING SHALL BE INSULATED, SEE SPECIFICATIONS.

C. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.

D. ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR SYSTEM DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.

E. CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEET METAL CONTRACTOR. RELOCATION OF PIPING AS A RESULT OF POOR COORDINATION BY THIS CONTRACTOR SHALL BE AT HIS OWN EXPENSE.

F. NO WATER PIPING SHALL BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.

G. WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, RECEIVED BY ENGINEER, 10 DAYS PRIOR TO BID DATE OF PROJECT TO ALLOW ADEQUATE TIME FOR REVIEW AND RESPONSE.

H. ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.

I. ALL SEWER PIPING BELOW FLOOR SLAB (BELOW GRADE) SHALL BE STANDARD WEIGHT HUB AND SPIGOT CAST IRON.

J. ALL PIPE PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED WITH CODE-APPROVED FIRE BARRIER MATERIALS.

K. SECURE ALL PIPING TO WALLS FOR A RIGID INSTALLATION WITH UNISTRUT BRACKETS AND GASKETED PIPE CLAMPS.

SHEET LIST PLUMBING

SHEET NUMBER	SHEET NAME
P-001	PLUMBING LEGEND AND GENERAL NOTES
P-101	WASTE AND VENT FLOOR PLAN
P-102	DOMESTIC WATER AND GAS FLOOR PLAN
P-401	PLUMBING ENLARGED PLANS
P-402	PLUMBING ENLARGED PLANS
P-501	PLUMBING DETAILS
P-502	PLUMBING DETAILS
P-601	PLUMBING SCHEDULES

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ISSUE:	JANUARY 2026	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
CHECKED BY: WAY
SHEET TITLE:

PLUMBING LEGEND AND GENERAL NOTES

SHEET NO:
P-001

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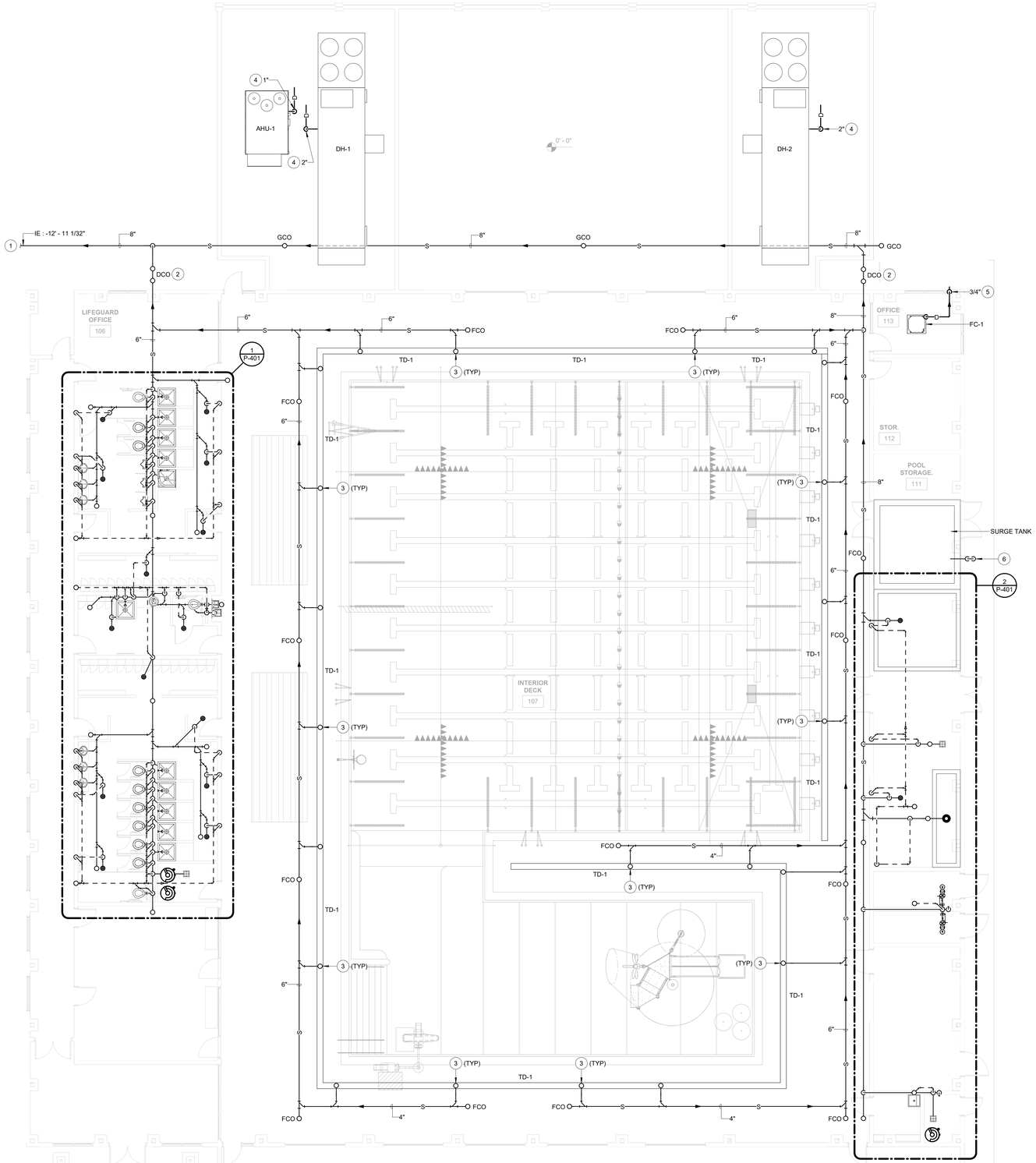

GENERAL NOTES

A. REFER TO SHEET P-001 FOR PLUMBING LEGEND AND GENERAL NOTES.

B. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS.

C. REFER TO SHEET P-601 FOR PLUMBING SCHEDULES.

KEYED NOTES

1. SEE CIVIL DRAWINGS FOR CONTINUATION OF PIPING.
2. DOUBLE GROUND CLEANOUT TO GRADE. INSTALL PER DETAIL ON DETAIL SHEET.
3. 4" WASTE PIPE UP TO TRENCH DRAIN OUTLET.
4. CONDENSATE DRAIN PIPE FROM AIR HANDLING UNIT/DEHUMIDIFIER UNIT. INSTALL CONDENSATE TRAP PER DETAIL ON DETAIL SHEET. EXTEND PIPE AND TERMINATE TO DAYLIGHT AT GRADE OR LANDSCAPED AREA.
5. CONDENSATE DRAIN PIPE DOWN WITHIN WALL. OFFSET 12" ABOVE FINISHED GRADE AND TERMINATE TO DAYLIGHT WITH A 45° DOWNTURN ELBOW EXTENDING 6" FROM WALL.
6. SURGE TANK VENT. INSTALL PER DETAIL ON DETAIL SHEET.

1 WASTE AND VENT FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

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DRAWN BY: JCT
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SHEET TITLE:

WASTE AND VENT FLOOR PLAN

SHEET NO:
P-101

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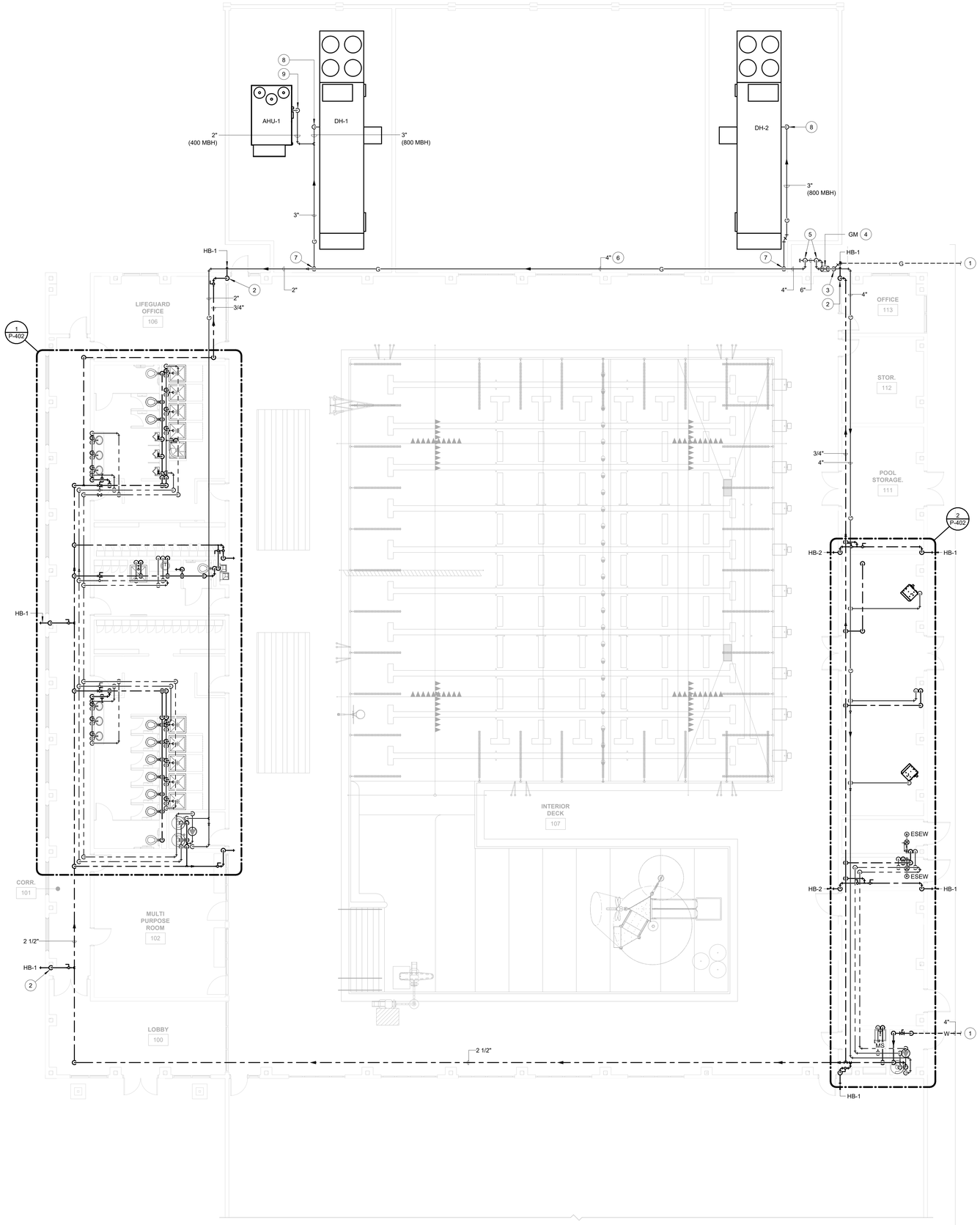

GENERAL NOTES

A. REFER TO SHEET P-001 FOR PLUMBING LEGEND AND GENERAL NOTES.

B. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS.

C. REFER TO SHEET P-601 FOR PLUMBING SCHEDULES.

D. INSTALL WATER HAMMER ARRESTERS ON DOMESTIC HOT AND COLD WATER BRANCH LINES, BETWEEN THE LAST TWO FIXTURES SERVED AND AT THE END OF EVERY 20' RUN. PROVIDE CEILING OR WALL ACCESS PANEL FOR ACCESSIBILITY.

KEYED NOTES

1. SEE CIVIL DRAWINGS FOR CONTINUATION OF PIPING.
2. 3/4"CW PIPE RISER DOWN WITHIN INTERIOR WALL TO EXTERIOR HOSE BIBB. INSTALL HOSE BIBB 18" ABOVE FINISHED GRADE.
3. NATURAL GAS LINE SERVICE RISER ENTRANCE THROUGH GROUND. PROVIDE FULL PORT SHUT-OFF VALVE BEFORE CONNECTING TO GAS METER/REGULATOR ASSEMBLY.
4. NATURAL GAS METER AND REGULATOR ASSEMBLY FOR 4500 MBH. INSTALL FULL PORT SHUT-OFF VALVE DOWNSTREAM OF GAS METER PER CODE. REGULATE INCOMING HIGH PRESSURE GAS TO 7" W.C. CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH NEW GAS SERVICE.
5. 4" GAS PIPE RISER ALONG WALL FROM GAS MANIFOLD.
6. ROUTE PIPING ALONG WALL APPROXIMATELY 12' ABOVE FINISHED GRADE CLEAR OF DOORS.
7. GAS PIPE RISER DOWN ALONG WALL AND OFFSET ABOVE GROUND TO DEHUMIDIFIER UNIT AND/OR AIR HANDLING UNIT.
8. 3" GAS PIPE TO DEHUMIDIFIER UNIT. PROVIDE CONNECTION WITH GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP, AND FLEXIBLE CONNECTOR.
9. 2" GAS PIPE TO AIR HANDLING UNIT. PROVIDE CONNECTION WITH GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP, AND FLEXIBLE CONNECTOR.

1 DOMESTIC WATER AND GAS FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

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DOMESTIC WATER AND GAS FLOOR PLAN

SHEET NO:
P-102

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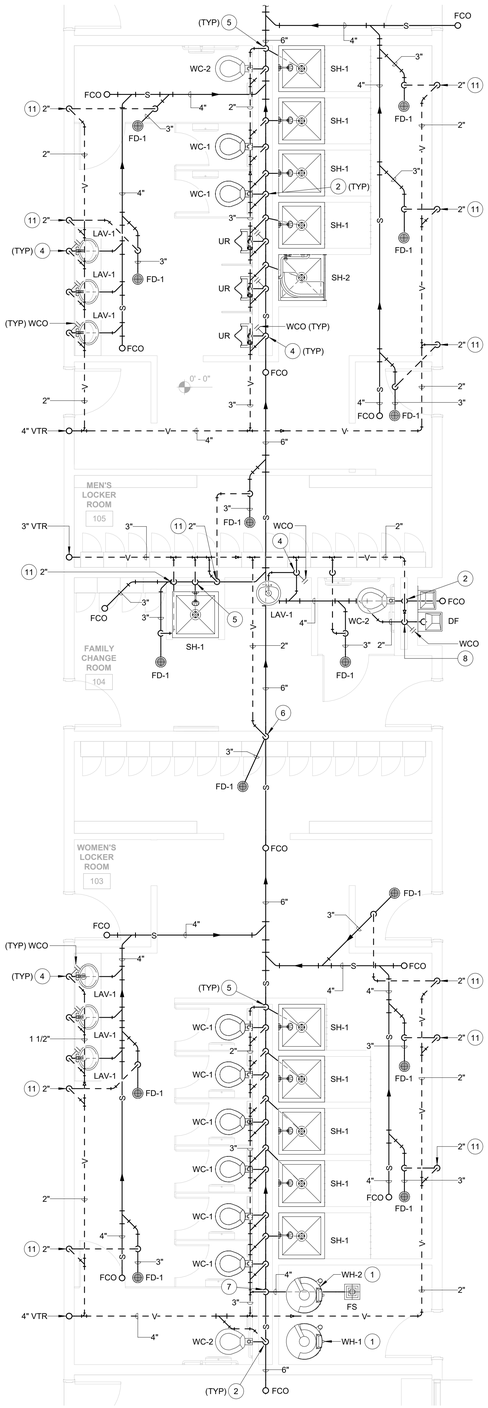
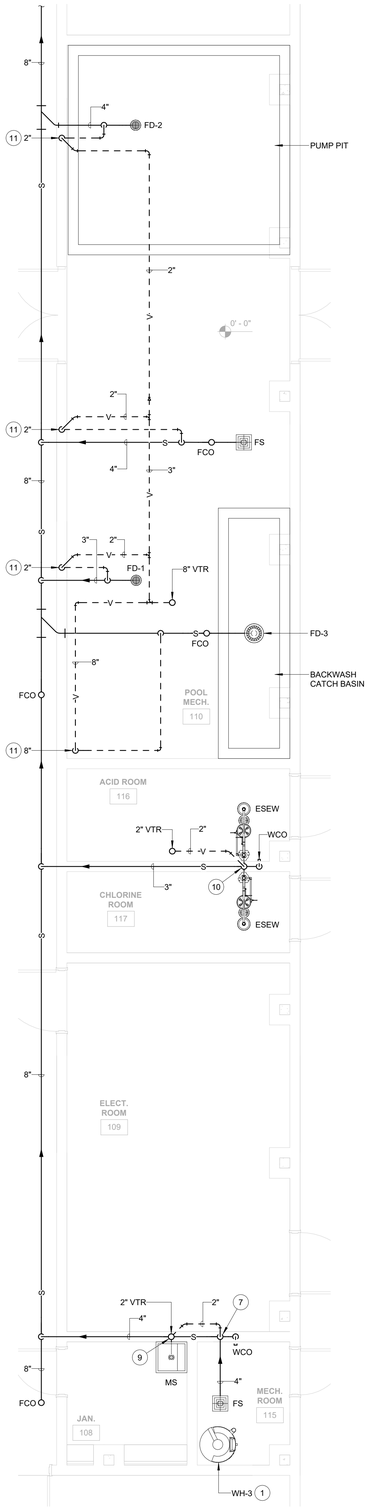


1 WASTE AND VENT ENLARGED PLAN 1 - WEST
1/4" = 1'-0"



2 WASTE AND VENT ENLARGED PLAN 2 - EAST
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET P-001 FOR PLUMBING LEGEND AND GENERAL NOTES.

B. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS.

C. REFER TO SHEET P-601 FOR PLUMBING SCHEDULES.

KEYED NOTES

1. EXTEND WATER HEATER DRAIN TO FLOOR SINK AND TERMINATE WITH AIR GAP.
2. 4" WASTE PIPE DOWN AND 2" VENT PIPE UP WITHIN CHASE FROM WATER CLOSET CARRIER.
3. 2" WASTE PIPE DOWN WITH CLEANOUT AND 2" VENT PIPE UP WITHIN CHASE FROM URINAL.
4. 2" WASTE PIPE DOWN WITH CLEANOUT AND 1-1/2" VENT PIPE UP WITHIN WALL FROM LAVATORY.
5. 2" WASTE PIPE DOWN AND 2" VENT PIPE UP WITHIN CHASE FROM SHOWER DRAIN.
6. 3" WASTE PIPE DOWN AND 2" VENT PIPE UP WITHIN WALL FROM FLOOR DRAIN.
7. 4" WASTE PIPE DOWN AND 2" VENT PIPE UP WITHIN WALL FROM FLOOR SINK.
8. 2" WASTE PIPE DOWN WITH CLEANOUT AND 1-1/2" VENT PIPE UP WITHIN WALL FROM DRINKING FOUNTAIN.
9. 3" WASTE PIPE DOWN AND 2" VENT PIPE UP WITHIN WALL FROM MOP SINK.
10. 3" WASTE PIPE DOWN AND 2" VENT PIPE UP WITHIN WALL FROM EMERGENCY EYEWASH/SHOWER FLOOR DRAIN.
11. VENT PIPE RISER UP THROUGH FLOOR AND WITHIN WALL.

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SHEET TITLE:

PLUMBING ENLARGED PLANS

SHEET NO:
P-401

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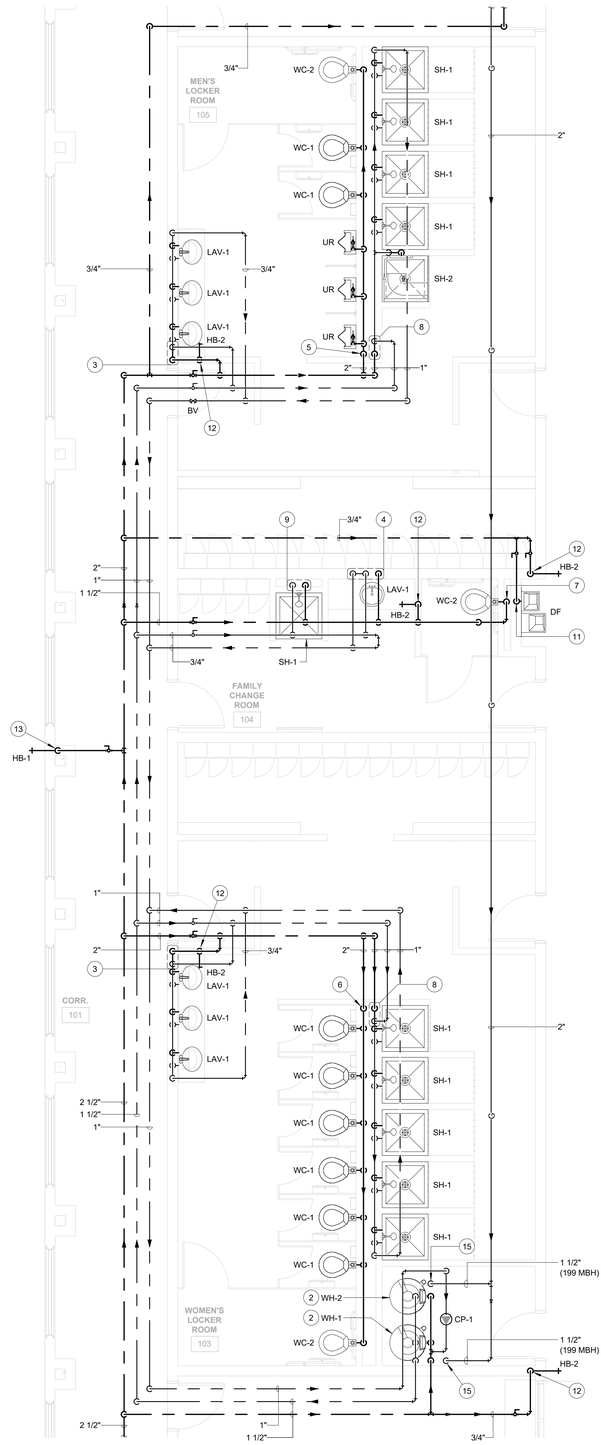
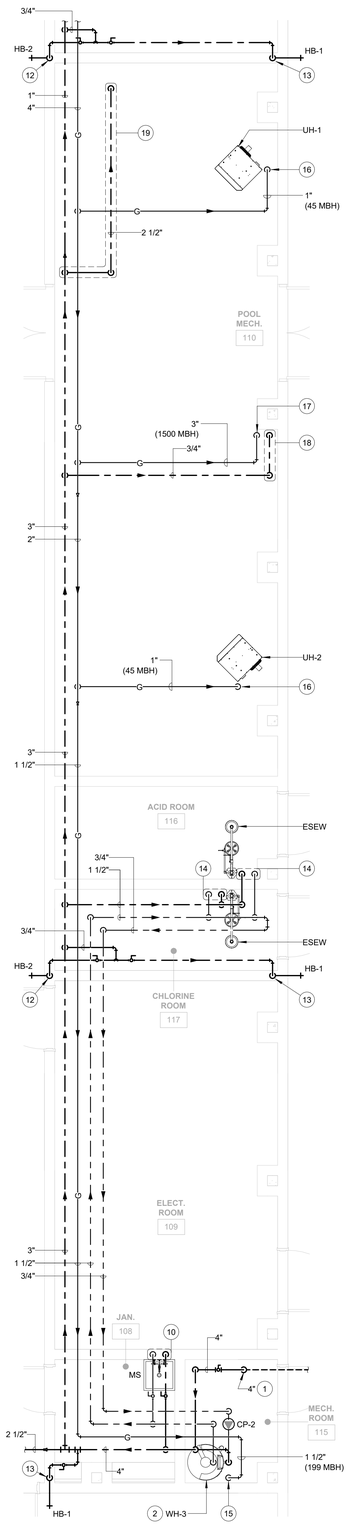


1 DOMESTIC WATER AND GAS ENLARGED PLAN 1 - WEST
1/4" = 1'-0"



2 DOMESTIC WATER AND GAS ENLARGED PLAN 2 - EAST
1/4" = 1'-0"

GENERAL NOTES

A. REFER TO SHEET P-001 FOR PLUMBING LEGEND AND GENERAL NOTES.

B. REFER TO SHEET P-501 AND P-502 FOR PLUMBING DETAILS.

C. REFER TO SHEET P-601 FOR PLUMBING SCHEDULES.

D. INSTALL WATER HAMMER ARRESTERS ON DOMESTIC HOT AND COLD WATER BRANCH LINES, BETWEEN THE LAST TWO FIXTURES SERVED AND AT THE END OF EVERY 20' RUN. PROVIDE CEILING OR WALL ACCESS PANEL FOR ACCESSIBILITY.

KEYED NOTES

1. WATER PIPE ENTRANCE RISER UP THROUGH FLOOR. INSTALL PER DOMESTIC WATER ENTRANCE DETAIL ON DETAIL SHEET.
2. STORAGE TYPE GAS WATER HEATER. EXTEND 1 1/2"CW AND 1 1/2"HW PIPING TO WATER HEATER. INSTALL PER DETAIL ON DETAIL SHEET.
3. 3/4"CW AND 3/4"HW PIPE RISER DOWN WITHIN WALL AND OFFSET BELOW TO SERIES OF LAVATORIES. LOOP HOT WATER PIPING WITHIN 2' OF EACH LAVATORY HOT WATER SUPPLY TERMINATION.
4. 1/2"CW, 1/2"HW, AND 1/2"HWR PIPE RISER DOWN WITHIN WALL TO LAVATORY. CONNECT HOT WATER RETURN WITHIN 2' OF LAVATORY HOT WATER SUPPLY TERMINATION.
5. 2"CW PIPE RISER DOWN WITHIN CHASE AND OFFSET BELOW TO SERIES OF URINALS AND WATER CLOSETS.
6. 2"CW PIPE RISER DOWN WITHIN CHASE AND OFFSET BELOW TO SERIES OF WATER CLOSETS.
7. 1 1/2"CW PIPE RISER DOWN WITHIN CHASE TO WATER CLOSET.
8. 1"CW AND 1"HW PIPE RISER DOWN WITHIN CHASE AND OFFSET BELOW TO SERIES OF SHOWER VALVES.
9. 3/4"CW AND 3/4"HW PIPE RISER DOWN WITHIN CHASE TO SHOWER VALVE.
10. 3/4"CW AND 3/4"HW PIPE RISER DOWN WITHIN WALL TO MOP SINK.
11. 1/2"CW PIPE RISER DOWN WITHIN WALL TO DRINKING FOUNTAIN.
12. 3/4"CW PIPE RISER DOWN WITHIN WALL TO INTERIOR HOSE BIBB. INSTALL HOSE BIBB 18" ABOVE FINISHED FLOOR.
13. 3/4"CW PIPE RISER DOWN WITHIN INTERIOR WALL TO EXTERIOR HOSE BIBB. INSTALL HOSE BIBB 18" ABOVE FINISHED GRADE.
14. 1"CW AND 1"HW PIPE RISER DOWN ALONG WALL TO EMERGENCY EYEWASH/ SHOWER'S TEMPERING VALVE (TV-1). PROVIDE 1-1/4" TEMPERED WATER CONNECTION TO EMERGENCY EYEWASH/SHOWER. INSTALL PIPING PER DETAIL ON DETAIL SHEET.
15. 1 1/2" GAS PIPE RISER DOWN ALONG WALL TO WATER HEATER. PROVIDE CONNECTION WITH GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP, AND FLEXIBLE CONNECTOR.
16. 1" GAS PIPE TO GAS FIRED UNIT HEATER. PROVIDE CONNECTION WITH GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP, AND FLEXIBLE CONNECTOR.
17. 3" GAS PIPE RISER DOWN ALONG WALL TO GAS FIRED BOILER. PROVIDE CONNECTION WITH PRESSURE REGULATOR (FISHER #CS800IR), GAS COCK, UNION, DIRT LEG WITH REMOVABLE CAP, AND FLEXIBLE CONNECTOR. COORDINATE BOILER LOCATION WITH THE POOL CONTRACTOR.
18. EXTEND 3/4"CW MAKE-UP WATER LINE TO POOL'S HEATING SYSTEM. PROVIDE WATER METER, BACKFLOW PREVENTER, AND PRESSURE REDUCING VALVE. INSTALL ASSEMBLY PER DETAIL ON DETAIL SHEET. COORDINATE CONNECTION POINT WITH THE POOL CONTRACTOR.
19. EXTEND 2 1/2" CW LINE TO POOL'S FILL FUNNEL FOR WATER SERVICE AND TERMINATE WITH AIR GAP. PROVIDE DEDICATED WATER METER AND INSTALL POOL CONRACTOR FURNISHED SOLENOID VALVES. INSTALL ASSEMBLY PER DETAIL ON DETAIL SHEET. COORDINATE FILL FUNNEL LOCATION WITH THE POOL CONTRACTOR.

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SHEET TITLE:

PLUMBING ENLARGED PLANS

SHEET NO:
P-402

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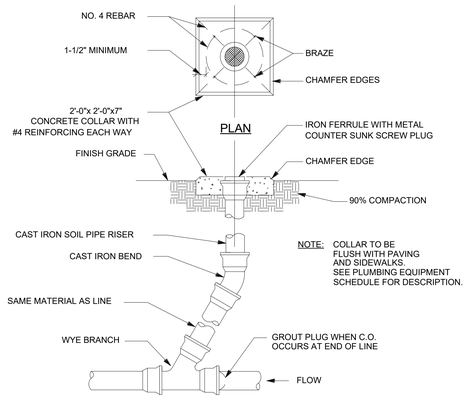

CLEANOUT TO GRADE DETAIL

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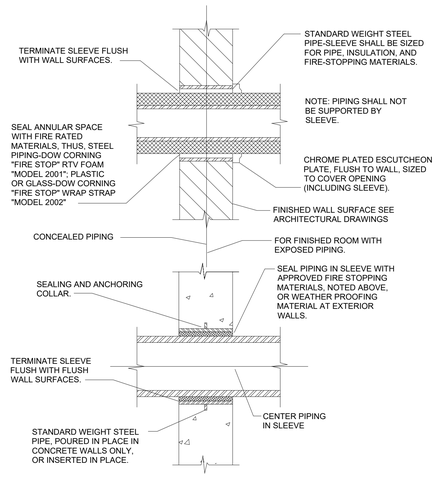

PIPE SLEEVE THRU WALL DETAIL

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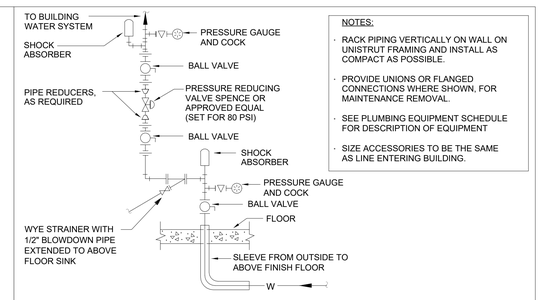

DOMESTIC WATER ENTRANCE DETAIL

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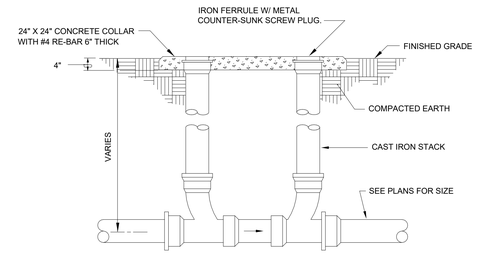

DOUBLE CLEAN OUT DETAIL

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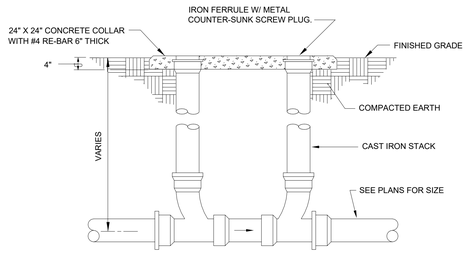

DOUBLE CLEAN OUT DETAIL

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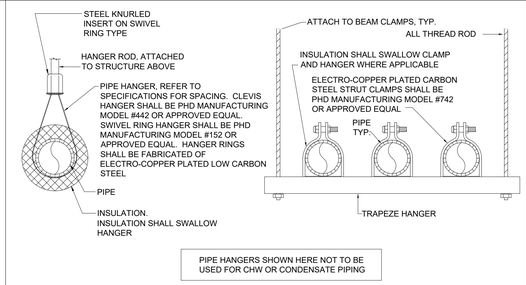

PIPE HANGER DETAIL

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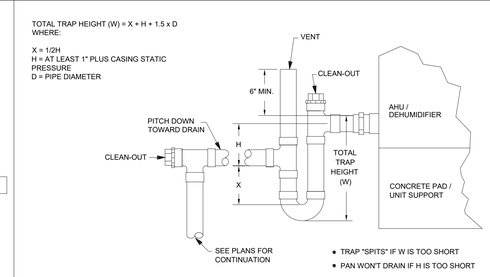

CONDENSATE TRAP DETAIL

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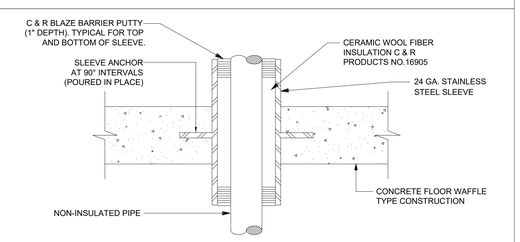

PIPE PENETRATION DETAIL

SCALE: NONE

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ASA PROJECT NO.: 22131L
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PLUMBING DETAILS

SHEET NO:
P-501

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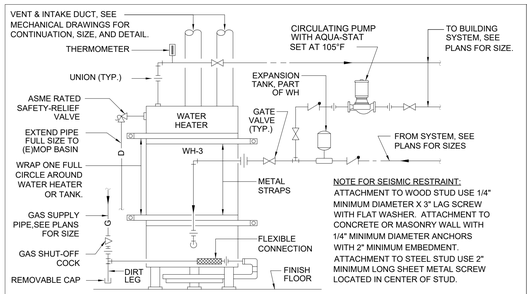
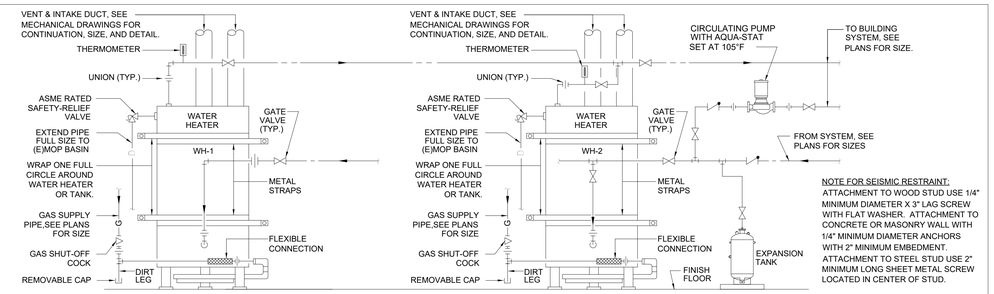


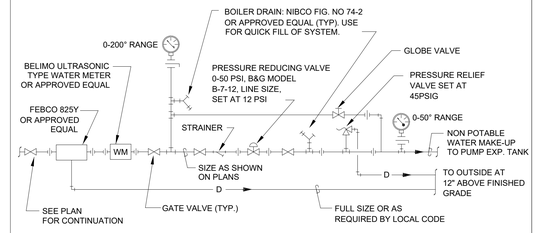
WATER HEATER PIPING DETAIL

SCALE: NONE



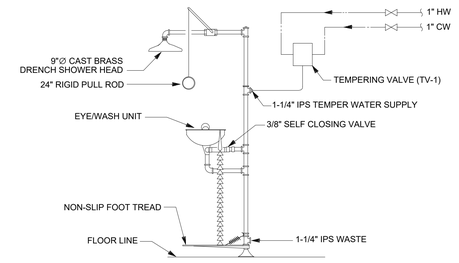
TWO WATER HEATER PIPING DETAIL

SCALE: NONE



COLD WATER MAKE-UP DIAGRAM

SCALE: NONE



EMERGENCY SHOWER/EYE WASH

SCALE: NONE

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ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:		JANUARY 2026

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
CHECKED BY: WAY
SHEET TITLE:

PLUMBING DETAILS

SHEET NO:

P-502

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PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	TRAP	VENT	CW	HW
BV	BALANCING VALVE: BELL & GOSSET CB-1LF (1") CIRCUIT SETTER PLUS, LEAD FREE, BRASS BODY, 400 PSIG MAXIMUM WORKING PRESSURE, -4°F TO 250°F MAXIMUM OPERATING TEMPERATURE, CALIBRATED NAMEPLATE, MEMORY STOP INDICATOR, INTERNAL CHECK VALVES, 1/4" NPT TAPPED AND PLUGGED DRAIN PORT.	-	-	-	-
CP-1	CIRCULATING PUMP: ALL BRONZE, 100 PER-CENT LEAD FREE, WET ROTOR, IN LINE CIRCULATOR, CAPABLE OF 3 GPM AGAINST 7 FOOT HEAD WITH 120 V, SINGLE PHASE, 55 WATTS, 0.48 FLA MOTOR, COMPLETE WITH HONEYWELL L6006C AQUASTAT, 1" SIZE, BELL AND GOSSETT NBF-12F/LW.	-	-	-	-
CP-2	CIRCULATING PUMP: ALL BRONZE, 100 PER-CENT LEAD FREE, WET ROTOR, IN LINE CIRCULATOR, CAPABLE OF 2 GPM AGAINST 6 FOOT HEAD WITH 120 V, SINGLE PHASE, 41 WATTS, 0.40 FLA MOTOR, COMPLETE WITH AQS-3/4 AQUASTAT, 3/4 " SIZE, BELL AND GOSSETT NBF-9U/LW.	-	-	-	-
DF	DRINKING FOUNTAIN: ELKAY MODEL EDFP217CRAC, TWO-LEVEL WALL MOUNTED DRINKING FOUNTAIN, #18 GAUGE, TYPE 304 STAINLESS STEEL, WITH PUSH BUTTONS, "FLEXI GUARD" SAFETY BUBBLER MP20 SURFACE MOUNTING PLATE, VANDAL PROOF BOTTOM COVER PLATES, LK-464 DRAIN AND TRAP ASSEMBLIES JR SMITH NO. 0823 FLOOR SUPPORT, CHROME PLATED CAST BRASS ANGLE SUPPLY WITH LOOSE KEY STOP, CHROME PLATED CODE APPROVED ADJUSTABLE "P" TRAP WITH WASTE TO WALL.	1-1/4"	1-1/2"	1/2"	-
ESEW	EMERGENCY SHOWER/EYEWASH: HAWS "AXION" MODEL 8336 COMPLETE WITH JR SMITH 225 SERIES FLOOR DRAIN, CHEMICAL RESISTANT PVC BODY AND STRAINER, CLAMPING COLLAR AND VANDAL-PROOF SCREWS, COMPLETE WITH TRAP GUARD (TG-1). TEMPERED WATER SIZE 1-1/4" AND TEMPERING VALVE (TV-1)	3"	2"	-	-
FCO	FLOOR CLEANOUT: J.R. SMITH 4023, CAST IRON C.O., WITH ROUND SCORIATED TOP.	-	-	-	-
FD-1	FLOOR DRAIN: J.R. SMITH 2005-U, CAST IRON BODY WITH NICKEL BRASS STRAINER, CLAMPING COLLAR, VANDAL-PROOF SCREWS, COMPLETE WITH TRAP GUARD (TG-1).	3"	2"	-	-
FD-2	FLOOR DRAIN: J.R. SMITH 2005-U, CAST IRON BODY WITH NICKEL BRASS STRAINER, CLAMPING COLLAR, VANDAL-PROOF SCREWS, COMPLETE WITH TRAP GUARD (TG-1).	4"	2"	-	-
FD-3	FLOOR DRAIN: J.R. SMITH 2290, CAST IRON BODY, DOME GRATE, SEDIMENT BUCKET, CLAMPING COLLAR, VANDAL-PROOF SCREWS, COMPLETE WITH QUAD CLOSE TRAP SEAL 2692.	8"	8"	-	-
FS	FLOOR SINK: JR SMITH 3150-Y-12, 12"x12"x8", CAST IRON RECEPTOR, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, ALUMINUM DOME STRAINER, HALF GRATE COVER, COMPLETE WITH TRAP GUARD (TG-1).	4"	2"	-	-
HB-1	WALL HYDRANT: J.R. SMITH 5609-QT NON-FREEZE, "ANTI-SIPHON", WITH NICKEL BRONZE PLATED, BRONZE CASING, ALL BRONZE INTERIOR PARTS AND REMOVABLE KEY.	-	-	3/4"	-
HB-2	HOSE BIBB: WOODFORD MODEL 24, ANTI-SIPHON, VACUUM BREAKER, METAL WHEEL HANDLE, ROUGH BRASS FINISH.	-	-	3/4"	-
LAV-1	LAVATORY: AMERICAN STANDARD "AQUALYN" 0476.028 VITREOUS CHINA, SELF-RIMMING COUNTERTOP LAVATORY WITH OVAL BASIN AND FRONT OVERFLOW, 6058215 INNSBROOK SELECTRONIC TOUCHLESS FAUCET (0.5 GPM), ELECTRIC POWERED (PK01.HAC) HARD WIRED 120VAC, 60 HZ, SENSOR OPERATED AND GRID DRAIN, CHROME PLATED CAST BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, CHROME PLATED CODE APPROVED ADJUSTABLE "P" TRAP WITH WASTE-TO-WALL, INSULATE ALL WATER PIPING AND TRAP BELOW LAVATORY WITH PLUMBEREX "PRO-EXTREME UNDER LAV PROTECTOR. COMPLETE WITH THERMOSTATIC MIXING VALVE (MX-1). LAVATORY SIZE 20" X 17".	1-1/4"	1-1/2"	1/2"	1/2"
MS	MOP BASIN: FIAT MODEL MSB2424, SIZE 24" X 24" X 10" DEEP, CONSTRUCTED OF MOLDED STONE, UNIT SHALL HAVE 10" HIGH WALLS, NOT LESS THAN 1" WIDE SHOULDERS, COMPLETE WITH FACTORY INSTALLED DRAIN BODY WITH QDC-3 JOINT CONNECTOR, NEOPRENE GASKETS AND COMBINATION DOME STRAINER-LINT BASKET CONSTRUCTED OF 302 16-GAUGE STAINLESS STEEL, T&S BRASS NO. B-0665-BSTP FAUCET WITH VACUUM BREAKER, INTEGRAL STOP WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT AND #889-CC MOP HANGER.	3"	2"	1/2"	1/2"
MX-1	THERMOSTATIC MIXING VALVE: WATTS MODEL LFQ480-00Q. 1/2" NPT INLETS, 1/2" NPT OUTLET, 0.25 GPM MINIMUM, 3.5 GPM AT 60 PSI, ADJUSTABLE TEMPERATURE SELECTION WITH LOCKNUT, 80-120°F ADJUSTABLE TEMPERATURE SETTING, FACTORY SET TO 105°F, LEAD FREE BRASS BODY, ROUGH BRONZE FINISH, INTEGRAL CHECK WITH FILTER SCREENS.	-	-	-	-
SH-1	SHOWER: LEONARD VALVE 4501 PRESSURE BALANCING SHOWER VALVE, CHROME LEVER HANDLE, SCREWDRIVER CHECK-STOPS, H-05 SHOWER HEAD WITH 2.5 GPM FLOW CONTROL, ARM AND FLANGE, COMPLETE WITH JR SMITH 2005-U SERIES CAST IRON BODY FLOOR DRAIN WITH NICKEL BRASS STRAINER, CLAMPING COLLAR AND VANDAL-PROOF SCREWS.	2"	2"	3/4"	3/4"

PLUMBING EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	TRAP	VENT	CW	HW
SH-2	SHOWER: POWERS "LEONARD VALVE 4505 PRESSURE BALANCE SHOWER VALVE501P (G) CHROME LEVER HANDLE, SCREWDRIVER CHECK-STOPS, D-2L INLINE DIVERTER VALVE, HAND HELD SHOWER WITH CHROME HOSE 24 " GUIDE, JR SMITH 2005-U CAST IRON BODY FLOOR DRAIN WITH NICKEL BRASS STRAINER, RAIL, INLINE VACUUM BREAKER, 2.0 GPM FLOW RATE, H-05 SHOWER HEAD WITH 2.5 GPM FLOW CONTROL, CLAMPING COLLAR AND VANDAL-PROOF SCREWS AND ALL ITEMS REQUIRED TO PROVIDE A COMPLETE WORKING UNIT, AND SHALL MEET ALL ADA AND ANSI REQUIREMENTS FOR THE PHYSICALLY CHALLENGED.	2"	2"	1/2"	1/2"
TD-1	TRENCH DRAIN: JR SMITH 9930 "ENVIRO-FLO" SLOPED DRAINAGE SYSTEM WITH POLYPROPYLENE INTERLOCKING CHANNELS WITH A BUILT IN SLOPE OF 6 PERCENT, RADIUSED BOTTOM, NO. 099N 1/2 METER NEUTRAL CHANNEL AND HPP GRATE RATED FOR PEDESTRIAN LOADS. CONTRACTOR SHALL PROVIDE SUPPLIER WITH SCALED DRAWINGS OF LOCATIONS FOR FACTORY DESIGN OF TRENCH DRAINS.	4"	2"	-	-
TG-1	TRAP GUARD: SURE SEAL INLINE TRAP SEALER, SIZE TO MATCH FLOOR SINK/DRAIN PER PLANS.	-	-	-	-
TV-1	TEMPERING VALVE: LEONARD MODEL TM-800 EMERGENCY SHOWER MIXING VALVE, 29 GPM, 1" INLETS AND 1 1/4" OUTLET, LOCKING TYPE REGULATOR, INTERNAL COLD WATER BY-PASS, DIAL THERMOMETER, ROUGH BRONZE FINISH, UNION ANGLE CHECK STOPS ON INLETS COMPLETE WITH ACCESS PANEL.	-	-	1"	1"
UR	URINAL: AMERICAN STANDARD "WASHBROOK" 6590.001, 0.5 GPF, VITREOUS CHINA, SIPHON JET ACTION, WALL URINAL, 3/4" TOP SPUD, 2 WALL HANGERS, JR SMITH NO. 0644 FLOOR SUPPORT, SLOAN REGAL NO. 186-0.5 FLUSH VALVE WITH VACUUM BREAKER, SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED. INSTALL WITH RIM 17" ABOVE FINISH FLOOR.	2"	2"	3/4"	-
WC-1	WATER CLOSET: AMERICAN STANDARD "AFWALL" 3351.101 RIM FED, 1.28 GPF, SIPHON JET, ELONGATED RIM, 1-1/2" TOP SPUD, WALL HUNG BOWL, HIGH EFFICIENCY, VITREOUS CHINA, SLOAN REGAL 111-1.28 FLUSH VALVE WITH VACUUM BREAKER, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HINGE, LESS COVER AND CONCEALED CLOSET CARRIER WITH 4" SPS OUTLET CONNECTION. MOUNTED 15" ABOVE FINISHED FLOOR LEVEL.	-	2"	1"	-
WC-2	WATER CLOSET: AMERICAN STANDARD "AFWALL" 3351.101 RIM FED, 1.28 GPF, SIPHON JET, ELONGATED RIM, 1-1/2" TOP SPUD, WALL HUNG BOWL. HIGH EFFICIENCY, VITREOUS CHINA, SLOAN REGAL 111-1.28 FLUSH VALVE WITH VACUUM BREAKER, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HINGE, LESS COVER AND CONCEALED CLOSET CARRIER WITH 4" SPS OUTLET CONNECTION. MOUNTED 16.5" ABOVE FINISHED FLOOR LEVEL. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED.	-	2"	1"	-
WCO	WALL CLEANOUT: J.R. SMITH 4530-U-Y CAST IRON C.O. TEE WITH BRASS PLUG AND ROUND STAINLESS STEEL ACCESS COVER WITH VANDAL PROOF SCREW. SIZE CLEANOUT PER 2015 UPC TABLE 707.1.	-	-	-	-
WH-1 AND WH-2	WATER HEATER: A.O. SMITH "CYCLONE Mxi" MODEL BTH-199(A), SEALED COMBUSTION SYSTEM, HIGH-EFFICIENCY COMMERCIAL GAS WATER HEATER, GLASS-LINED TANK, AUTOMATIC SAFETY SHUT OFF, STAINLESS STEEL CORE ANODE RODS, DRAIN VALVE, HEAVY GAUGE STEEL JACKET WITH BAKED ENAMEL FINISH, HANDHOLE CLEANOUT, ASME TANK, FOAM INSULATION BETWEEN TANK AND SHELL, UNIT SHALL BE 100 GALLON STORAGE, WITH 261 GPH RECOVERY AT 90 DEGREE RISE WITH 199,900 BTUH INPUT, POWER DIRECT VENT WITH 4"ø VENT AND COMBUSTION AIR INLET. ELECTRICAL REQUIREMENTS 120 VOLT, 60 HERTZ, 5.0 AMPS. COMPLETE WITH ASME TEMPERATURE AND PRESSURE RELIEF VALVE RATED AT 150 PSI. WATER HEATER ASSEMBLY SHALL COME COMPLETE WITH A MODEL ST-30VC-DD PRESSURIZED DIAPHRAM-TYPE EXPANSION TANK. UNIT SHALL BE DESIGNED FOR USE WITH DOMESTIC HOT WATER, STAINLESS STEEL FITTINGS, INSTALLATION AS SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED FOR MAX WORKING PRESSURE OF 150 PSI AT 200 F. INITIAL CHARGE PRESSURE SHALL BE 55 PSI. UNIT SHALL HAVE A TANK CAPACITY OF 16.5 GALLONS. TANK SHALL BE MANUFACTURED BY AMTROL OR APPROVED EQUAL. PROVIDE MANUFACTURER STANDARD CONDENSATE NEUTRALIZATION KIT AND CONCENTRIC VENT KIT.	-	-	-	-
WH-3	WATER HEATER: A.O. SMITH "CYCLONE Mxi" MODEL BTH-199(A), SEALED COMBUSTION SYSTEM, HIGH-EFFICIENCY COMMERCIAL GAS WATER HEATER, GLASS-LINED TANK, AUTOMATIC SAFETY SHUT OFF, STAINLESS STEEL CORE ANODE RODS, DRAIN VALVE, HEAVY GAUGE STEEL JACKET WITH BAKED ENAMEL FINISH, HANDHOLE CLEANOUT, ASME TANK, FOAM INSULATION BETWEEN TANK AND SHELL, UNIT SHALL BE 100 GALLON STORAGE, WITH 261 GPH RECOVERY AT 90 DEGREE RISE WITH 199,900 BTUH INPUT, POWER DIRECT VENT WITH 4"ø VENT AND COMBUSTION AIR INLET. ELECTRICAL REQUIREMENTS 120 VOLT, 60 HERTZ, 5.0 AMPS. COMPLETE WITH ASME TEMPERATURE AND PRESSURE RELIEF VALVE RATED AT 150 PSI. WATER HEATER SHALL COME COMPLETE WITH A MODEL ST-12C-DD PRESSURIZED DIAPHRAM-TYPE EXPANSION TANK. UNIT SHALL BE DESIGNED FOR USE WITH DOMESTIC HOT WATER, STAINLESS STEEL FITTINGS, INSTALLATION AS SHOWN ON THE DRAWINGS AND SHALL BE DESIGNED FOR MAX WORKING PRESSURE OF 150 PSI AT 200 F, INITIAL CHARGE PRESSURE SHALL BE 55 PSI. UNIT SHALL HAVE A TANK CAPACITY OF 6.4 GALLONS. TANK SHALL BE MANUFACTURED BY AMTROL OR APPROVED EQUAL. PROVIDE MANUFACTURER STANDARD CONDENSATE NEUTRALIZATION KIT AND CONCENTRIC VENT KIT.	-	-	-	-
WHA	WATER HAMMER ARRESTOR: J.R. SMITH 5000 "HYDROTROL" STAINLESS STEEL, SEALED AIR CHARGE, PROPERLY SIZED FOR FIXTURE LOAD AT POINT OF INSTALLATION.	-	-	-	-

PLUMBING FIXTURE UNITS

FIXTURE	QTY.	WSFU				DFU	
		CW	TOTAL	HW	TOTAL	SEWER	TOTAL
WATER CLOSET (FV)	11	-	175	-	-	6	66
URINAL (FV)	3	-	45	-	-	5	15
LAVATORY	7	1	7	1	7	1	7
MOP SINK	1	3	3	3	3	3	3
SHOWER	12	2	24	2	24	2	24
DRINKING FOUNTAIN	1	1	1	-	-	1	1
HOSE BIBB / HYDRANT	14	-	16	-	-	-	-
FLOOR DRAIN - 3"	17	-	-	-	-	6	102
FLOOR DRAIN - 4"	1	-	-	-	-	8	8
FLOOR SINK - 4"	3	-	-	-	-	8	24
TRENCH DRAIN - 4"	22	-	-	-	-	8	176
FIXTURE UNIT TOTAL			271		34		426
FIXTURE UNIT GRAND TOTAL (CW+HW)			305		-		-
CONVERT TO GPM			110		25		-
ADD POOL EQUIPMENT (MAKE-UP WATER / BACKWASH)			100 GPM		-		1840
GRAND TOTAL			210 GPM		-		2266
SERVICE SIZE			4"		1 1/2"		8"

CALCULATION BASED ON 2015 UNIFORM PLUMBING CODE

NATURAL GAS DEMAND LOAD

MARK	QTY.	INPUT btu/h	HEATING VALUE btu/cu.ft.	NATURAL GAS FLOWRATE cfh
AHU-1	1	400,000	832	481
DH-1	1	800,000	832	962
DH-2	1	800,000	832	962
WH-1	1	199,900	832	240
WH-2	1	199,900	832	240
WH-3	1	199,900	832	240
UH-1	1	45,000	832	54
UH-2	1	45,000	832	54
BOILER (POOL)	1	1,500,000	832	1803
TOTAL		4,189,700	-	5,036

NATURAL GAS SIZING CRITERIA	
1. LONGEST LENGTH OF PIPE, FT	300
2. EQUIVALENT LENGTH OF VALVES AND FITTINGS, FT	150
3. TOTAL DEVELOPED LENGTH OF PIPE, FT	450
A. GAS PRESSURE AFTER REGULATOR : 7 IN. WC.	
B. SITE ELEVATION : 4200 FT	

PIPE SIZING BASED ON 2021 UNIFORM PLUMBING CODE CHAPTER 12

DOMESTIC HOT WATER DEMAND

FIXTURE	QTY.	GPH/ FIXTURE	TOTAL GPH
LAVATORY	7	8	56
MOP SINK	1	20	20
SHOWER (2.5 GPM FOR 20 MINS)	12	50	600
EMERGENCY EYE WASH / SHOWER	1	150	150
GRAND TOTAL DEMAND			826

CALCULATION BASED ON 2015 ASHRAE HVAC APPLICATIONS CHAPTER 50

WATER HEATER SIZING (WEST)

MARK	DEMAND FACTOR	STORAGE FACTOR	TOTAL DEMAND, GPH	PROBABLE DEMAND, GPH	DIWSWASHER, GPH	WASHER, GPH	TOTAL STORAGE, GAL	TOTAL DEMAND, GPH	TOTAL RECOVERY RATE (AT SEA LEVEL)				EQUIPMENT DERATION OVER 4000 FT				TOTAL RECOVERY RATE (AT ELEVATION)	
	A	B	C	D	E	F	G=Bx(D+E+F)	H=D+E+F	TEMP. RISE, DEG. F	HEATER EFFICIENCY	BTUH	GPH	ELEV., FT	DERATION	BTUH	GPH	BTUH	GPH
WH-1 & WH-2	0.4	1	656	262	0	0	262	262	90	0.95	207075	262	4200	0.168	34789	44	241864	306

CALCULATION BASED ON 2015 ASHRAE HVAC APPLICATIONS CHAPTER 50

WATER HEATER SIZING (EAST)

MARK	DEMAND FACTOR	STORAGE FACTOR	TOTAL DEMAND, GPH	PROBABLE DEMAND, GPH	EMERGENCY EYEWASH SHOWER, GPH	WASHER, GPH	TOTAL STORAGE, GAL	TOTAL DEMAND, GPH	TOTAL RECOVERY RATE (AT SEA LEVEL)				EQUIPMENT DERATION OVER 4000 FT				TOTAL RECOVERY RATE (AT ELEVATION)	
	A	B	C	D	E	F	G=Bx(D+E+F)	H=D+E+F	TEMP. RISE, DEG. F	HEATER EFFICIENCY	BTUH	GPH	ELEV., FT	DERATION	BTUH	GPH	BTUH	GPH
WH-3	1	1	20	20	150	0	170	170	90	0.95	134157	170	4200	0.168	22538	29	156695	199

CALCULATION BASED ON 2015 ASHRAE HVAC APPLICATIONS CHAPTER 50

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ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR: CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
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SHEET TITLE:

PLUMBING SCHEDULES

SHEET NO:
P-601

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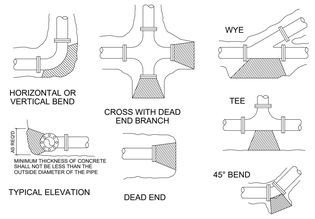


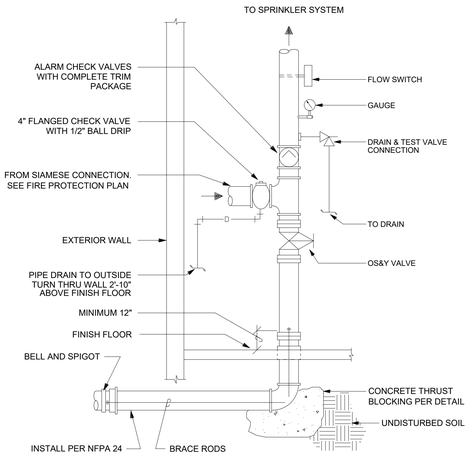
1. PROVIDE BEND BREAK BETWEEN FITTINGS AND CONCRETE AT DEAD ENDS.
2. THRUST BLOCKING SHALL BE CAST IN PLACE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
3. THRUST BLOCKING SHALL BE CAST AGAINST UNDISTURBED EARTH. FORMS SHALL BE USED AS REQUIRED. CONCRETE SHALL NOT BE ALLOWED TO SPILL OVER THE JOINT OR AGAINST THE PIPE.

PIPE SIZE	BENDS				TEES	PLUGS
	90°	45°	22-1/2°	11-1/4°		
6	3.00	1.75	1.00	0.00	2.25	2.25

AREAS BASED ON INTERNAL STATIC PRESSURE OF 150 P.S.I. AND A SOIL BEARING CAPACITY OF 2000 P.S.I.

CONCRETE THRUST BLOCKING DETAIL

SCALE: NONE



FIRE ALARM VALVE DETAIL

SCALE: NONE

FIRE PROTECTION SYMBOL LEGEND

NOTES

1. ALL SYMBOLS, ABBREVIATIONS, AND DESIGNATIONS ON LEGEND SHEET ARE NOT NECESSARILY USED ON THIS PROJECT.
2. THIS DRAWING SET CONSISTS OF DATA GENERATED, IN PART, BY OTHER PARTIES. NOT ALL SYMBOLOGIES AND NOTATION CONVENTIONS OCCURING IN THIS DRAWING SET ARE NECESSARILY DEFINED ON THESE LEGENDS. CONSULT THE ENGINEER IN THE EVENT SYMBOLOGY OR NOTATION INTERPRETATION IS REQUIRED.

ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
		KEYED NOTES			RISER UP
		EQUIPMENT DESIGNATION			VALVE IN RISER
		DEMOLISHED ITEM			DROP
(E)		EXISTING			RISER UP
(TYP)		TYPICAL	HB		HOSE BIBB / WALL HYDRANT
BTU		BRITISH THERMAL UNITS			PIPE GUIDE
CFH		CUBIC FEET PER HOUR			DIRECTION OF FLOW
CFM		CUBIC FEET PER MINUTE			SHUT OFF (BALL, GATE, BUTTERFLY)
DIA	Ø	DIAMETER			GLOBE VALVE
ELV		ELEVATION			CHECK VALVE
ESP		EXTERNAL STATIC PRESSURE			PLUG VALVE
EWT		ENTERING WATER TEMPERATURE			BALANCING VALVE
°F		DEGREES FAHRENHEIT			TEMPERATURE CONTROL VALVE (2-WAY)
FCO		FLOOR CLEANOUT			TEMPERATURE CONTROL VALVE (3-WAY)
FFE		FINISH FLOOR ELEVATION			PRESSURE REDUCING VALVE
GPH		GALLONS PER HOUR			SOLENOID VALVE
HP		HORSE POWER			DOUBLE CHECK BACKFLOW PREVENTER
INV		INVERT ELEVATION			RELIEF VALVE
LWT		LEAVING WATER TEMPERATURE			UNION
NA		NOT APPLICABLE			FLANGED CONNECTION
NC		NORMALLY CLOSED			PIPE ANCHOR
NO		NORMALLY OPEN			SAFETY RELIEF VALVE
PH		PHASE			PRESSURE GAUGE WITH PIG TAIL AND COCK
PSIG		POUNDS PER SQUARE INCH			THERMOMETER
R		REGISTER WITH OBD			STRAINER WITH BLOW-OFF VALVE
SP		STATIC PRESSURE			SHOCK ABSORBER
		POINT OF CONNECTION			FLOW SWITCH
		CAP ON END OF PIPE		FP	ROOF MANIFOLD
		CONTINUATION OF PIPE	FDC	FDC	FIRE DEPARTMENT INLET CONNECTION
		BUTTERFLY VALVE		FP	WET PIPE FIRE RISER
		BALL VALVE		FP DFP	DRY PIPE FIRE RISER
WCO		WALL CLEANOUT		FP DP	DELUGE/PREACTION FIRE RISER
VTR		VENT THRU ROOF			STANDPIPE VALVE
		RISER DOWN		FP D	INSPECTOR'S TEST CONNECTION (VERTICAL)
				FP D	INSPECTOR'S TEST CONNECTION (HORIZONTAL)

FIRE PROTECTION PIPING DESIGNATION

ABBR.	SYMBOL	DESCRIPTION
CA	CA	COMPRESSED AIR
FP	FP	FIRE PROTECTION: WET PIPE
DFP	DFP	FIRE PROTETION: DRY PIPE
SP	SP	STANDPIPE: WET
DSP	DSP	STANDPIPE: DRY
DP	DP	DRY PIPE/PRE-ACTION FIRE PROTECTION

SHEET LIST FIRE PROTECTION

SHEET NUMBER	SHEET NAME
FP-001	FIRE PROTECTION LEGEND & DETAILS
FP-101	FIRE PROTECTION FLOOR PLAN

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ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR: CITY OF ALAMOGORDO

MARK	DATE	DESCRIPTION
ISSUE:	JANUARY 2026	

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JCT
CHECKED BY: WAY
SHEET TITLE:

FIRE PROTECTION LEGEND & DETAILS

SHEET NO:

FP-001

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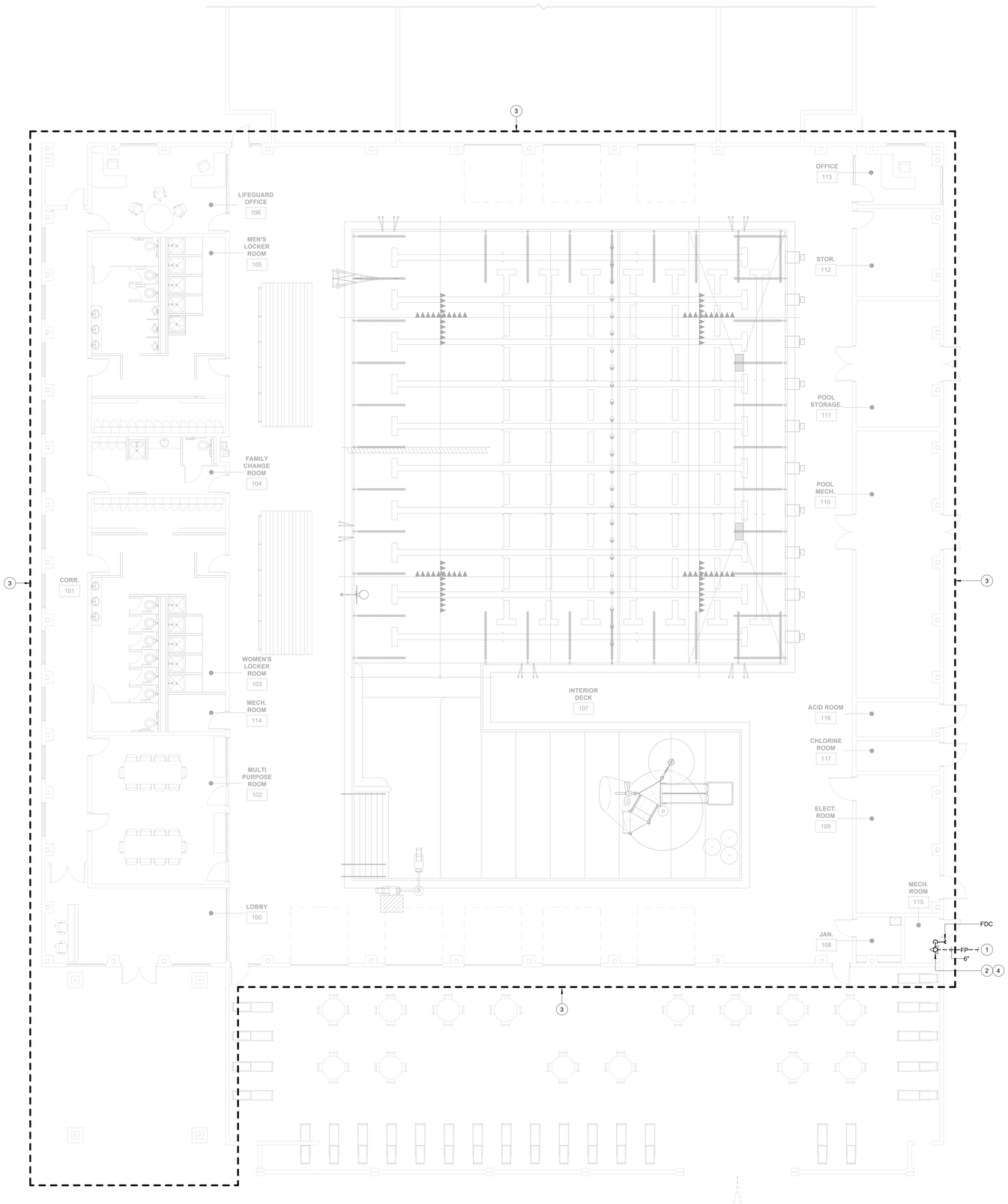

1 FIRE PROTECTION FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. THE ENTIRE BUILDING SHALL BE PROVIDED WITH A COMPLETE AUTOMATIC, WET PIPE, FIRE PROTECTION SPRINKLER SYSTEM. IN AREAS WITH CEILINGS, ALL PIPING SHALL BE CONCEALED. IN AREAS WHERE PIPING IS EXPOSED, ALL PIPE, FITTINGS, AND HANGERS SHALL BE PAINTED, COLOR AS DIRECTED BY ARCHITECT. ALL EXPOSED PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND SHALL BE COORDINATED WITH STRUCTURE, DUCTWORK, ROOF OPENINGS, AND LIGHTING TO BE AS INCONSPICUOUS AS POSSIBLE. LAYOUT SHALL BE SUBMITTED FOR APPROVAL TO CITY OF ALAMOGORDO FIRE DEPARTMENT, CITY OF ALAMOGORDO, BUILDING AND INSPECTION DEPARTMENT AND THE ARCHITECT. ALL REQUIRED APPROVALS SHALL BE OBTAINED BEFORE ORDERING MATERIALS OR BEGINNING FABRICATION. ALL HEADS SHALL BE CHROME PLATED, TEMPERATURE RATED AT 165°F, EXCEPT 212°F IN MECHANICAL ROOMS AND OTHER AREAS AS OUTLINED IN NFPA 13.

B. DESIGN AND INSTALLATION SHALL CONFORM TO THE LATEST EDITIONS OF NFPA 13, 101, AND I.B.C. AND THE SPECIFICATIONS.

1. THE ENTIRE BUILDING SHALL BE PROTECTED USING A HAZARD CLASSIFICATION OF LIGHT HAZARD.
2. INSTALLATION OF BACKFLOW PREVENTION DEVICE, POST INDICATOR VALVE, AND FIRE DEPARTMENT CONNECTION SHALL BE AS NOTED ON CIVIL DRAWINGS.

C. DUE TO LIMITED CEILING SPACE, COORDINATION WITH OTHER TRADES SHALL BE REQUIRED PRIOR TO ANY PIPING INSTALLATION. IF SPRINKLER CONTRACTOR FAILS TO PROPERLY COORDINATE HIS PIPING WITH OTHER TRADES, RELOCATION OF SPRINKLER PIPING, ETC., SHALL BE AT HIS OWN EXPENSE, AS DIRECTED BY THE ARCHITECT AND ENGINEER.

D. SPRINKLER SHOP DRAWINGS SHALL SHOW ALL DUCTWORK, DIFFUSER LOCATIONS, LIGHTS, BUS DUCTS AND OTHER PIPING MAINS, ETC., REQUIRING COORDINATION WITH SPRINKLER MAINS, SPRINKLER HEADS, ETC.

E. COORDINATE LOCATIONS OF FLOW SWITCHES AND TAMPER SWITCHES WITH ELECTRICAL CONTRACTOR AND PAY FOR ALL REQUIRED ELECTRICAL CONNECTIONS BACK TO MAIN FIRE ALARM PANEL FROM ALL FLOW SWITCHES AND TAMPER SWITCHES.

F. PROVIDE AND INSTALL "DRY-TYPE", PENDENT (FREEZE-PROOF) SPRINKLER HEADS AT ALL UNHEATED SPACES, DOCK OVERHANG, AND AT ALL LOCATIONS SUBJECT TO FREEZING.

G. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING SITE CONDITIONS, WATER PRESSURE, AND FIRE FLOW BEFORE SUBMITTING HIS BID. THIS CONTRACTOR SHALL EXTEND NEW FIRE PROTECTION SUPPLY PIPING TO ENTIRE BUILDING. CONTRACTOR SHALL PROVIDE COMPLETE HYDRAULIC CALCULATIONS FOR NEW SYSTEMS.

H. CONTRACTOR SHALL PROVIDE COMPLETE HYDRAULIC CALCULATIONS FOR ALL FIRE PROTECTION SYSTEMS BACK TO MAIN LINES IN STREET.

KEYED NOTES

1. SEE CIVIL DRAWINGS FOR CONTINUATION OF UNDERGROUND PIPING.
2. INSTALL FIRE RISER ACCORDING TO DETAIL ON SHEET FP-001.
3. INSTALL FIRE SPRINKLER SYSTEM ON ENTIRE BUILDING AS OUTLINED IN ACCORDANCE WITH GENERAL FIRE PROTECTION NOTES AND SPECIFICATIONS.
4. INSTALL THRUST BLOCK AT EACH AND EVERY CHANGE IN DIRECTION PER DETAIL ON SHEET FP-001.

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ISSUE	MARK	DATE	DESCRIPTION
			JANUARY 2026

ASA PROJECT NO.:	22131L
PROJECT NO:	
DRAWN BY:	JCT
CHECKED BY:	WAY
SHEET TITLE:	

FIRE PROTECTION FLOOR PLAN

SHEET NO:
FP-101

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ELECTRICAL SYMBOL LEGEND

(ALL SYMBOLS ARE NOT NECESSARILY USED ON THE DRAWINGS)

GENERAL

SYMBOL	DESCRIPTION
	CROSSHATCHING DEPICTS ITEMS TO BE REMOVED (LIGHT FIXTURES, SWITCHES, RECEPTACLES, CONDUIT AND WIRING, ETC.)
	HOME-RUN CONDUIT
	CONDUCTOR TICK MARKS: NEUTRAL, PHASE, SWITCHED, AND GROUND CONDUCTORS RESPECTIVELY
	CAPPED CONDUIT / CONDUIT STUB-OUT
	CONDUIT SEAL
	ELECTRICAL KEYED NOTE TAG
(E-16)	KITCHEN ITEM TAG, SEE KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULE
B-2	MECHANICAL UNIT TAG (EXAMPLE: BOILER B-2 INDICATED), SEE MECHANICAL EQUIPMENT SCHEDULE
O.F.C.I	OWNER FURNISHED, CONTRACTOR INSTALLED
E^{OH}	OVERHEAD PRIMARY ELECTRICAL LINE
E_{UG}	PRIMARY ELECTRICAL UNDERGROUND FEEDER
E.GR.	EQUIPMENT GROUND
AFF	ABOVE FINISH FLOOR
AC	ABOVE COUNTER
WR	WEATHER-RESISTANT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AHJ	AUTHORITY HAVING JURISDICTION
UNO	UNLESS NOTED OTHERWISE
$S \quad S_a$	SINGLE-POLE WALL SWITCH. SUBSCRIPT DESIGNATES CONTROL OF PARTICULAR LIGHTING FIXTURES.
$S^3 \quad S^4$	THREE-WAY AND FOUR-WAY SWITCHES, RESPECTIVELY.
S^{WR}	WEATHER-RESISTANT SWITCH
S^{K}	KEY-OPERATED SWITCH
S^{D}	DIMMER SWITCH, 1200W MINIMUM WATTAGE
S^{TT}	MECHANICALLY WOUND TWIST-TIMER SWITCH OR ELECTRONIC TIME SWITCH
S_L^{T}	THERMAL SWITCH
S^{OC}	OCCUPANCY SENSOR SWITCH.
S^{OCD}	DUAL-TECHNOLOGY OCCUPANCY DIMMER SWITCH.
S^{OCF}	DUAL-TECHNOLOGY OCCUPANCY SENSOR WITH FAN DELAY CONTROL.
S^{3OC}	3-WAY / MULTI-WAY OCCCUPANCY SENSOR SWITCH.
S^{EC}	EVAPORATIVE COOLER SWITCH
S^{F}	PADDLE FAN / LIGHT CONTROL SWTICHES. SWITCHES ALLOW INDEPENDENT CONTROL OF FAN SPEED AND LIGHTING.
S^{P}	PILOT SWITCH
OS	LIGHTING CONTROL OCCUPANCY SENSOR, CEILING MOUNTED
PC	PHOTOCELL
	DAYLIGHT HARVESTING PHOTOSENSOR, CEILING MOUNTED.
C	2'X4' LAY-IN LIGHTING FIXTURE (TROFFER), TYPE INDICATED BY LETTER (TYPICAL).
C	"EM" INDICATES LIGHTING FIXTURE IS SUPPLIED WITH AN EMERGENCY BATTERY PACK.
	1'X4' SURFACE MOUNTED LIGHTING FIXTURE
	1'X4' RECESSED (FLANGED) MOUNTED LIGHTING FIXTURE
	2'X2' LAY-IN LIGHTING FIXTURE (TROFFER)
	UTILITY STRIP FIXTURE
	LINEAR PENDANT MOUNTED LIGHTING FIXTURE, LENGTH AS INDICATED.
	4' WALL BRACKET MOUNTED LIGHTING FIXTURE
	WALL BRACKET LIGHTING FIXTURE
	POLE MOUNTED AREA LIGHTING FIXTURE, SINGLE-HEAD
	POLE MOUNTED AREA LIGHTING FIXTURE, DOUBLE-HEAD
	RECESSED DOWNLIGHT FIXTURE
	SURFACE MOUNTED DRUM TYPE LIGHTING FIXTURE
	BOLLARD LIGHTING FIXTURE
	HIGH-BAY LIGHTING FIXTURE
	LOW-BAY LIGHTING FIXTURE
	FLUSH IN-GROUND LIGHTING FIXTURE
	EXTERIOR WALLPACK LIGHTING FIXTURE
	WALL SCONCE LIGHTING FIXTURE
	STEP LIGHT LIGHTING FIXTURE
	PENDANT HUNG DECORATIVE LIGHTING FIXTURE
	GOOSENECK MOUNTED LIGHTING FIXTURE
	TRACK MONTED LIGHTING ASSEMBL, ONE FIXTURE HEAD INDICATED.
	TWIN-EYE EMERGENCY LIGHTING UNIT WITH BATTERY BACK-UP. TYPE "EM", REFER TO LUMINAIRE SCHEDULE.
	EXTERIOR EMERGENCY LIGHTING UNTI WITH BATTERY BACK-UP. TYPE "EMEX", REFER TO LUMINAIRE SCHEDULE.
	EXIT SIGN, SINGLE FACE INDICATED BY SHADED QUADRANT. TYPE "EXIT", REFER TO LUMINAIRE SCHEDULE.
	EXIT SIGN, DOUBLE-FACED, DIRECTIONAL ARROWS INDICATED
	COMBO EXIT SIGN / EMERGENCY TWIN-EYE UNIT TYPE "XEM", REFER TO LUMINAIRE SCHEDULE.
	PADDLE FAN, WITH OR WITHOUT LIGHT PER LUMINAIRE SCHEUDLE
J	J-BOX WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN LIGHTING FIXTURES.

LIGHTING

POWER

SYMBOL	DESCRIPTION
J	CEILING JUNCTION BOX
J	WALL JUNCTION BOX
#	DUPLEX RECEPTACLE, 18" AFF. UNO. (#) INDICATES CIRCUIT.
GFCI	GFCI PROTECTED DUPLEX RECEPTACLE. RECEPTACLES WITH TRIP RESET SHALL BE IN READILY ACCESSIBLE LOCATION.
TR	TAMPER RESISTANT RECEPTACLE
	QUADPLEX RECEPTACLE, 18" AFF TO CETER.
	GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECTACLE WITH WEATHER-RESISTANT (WR) COVER.
CNT	SPLIT-WIRED DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE, TYPE AS NOTED
	FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
IG	ISOLATED GROUND DUPLEX RECEPTACLE
USB	DUPLEX RECEPTACLE WITH BUILT-IN USB CHARGER OUTLET
HDMI	GANGABLE 3-COMPARTMENT MEDIA CENTER
	CABLE TRAY
	MULTI-RECEPTACLE RACEWAY (PLUGMOLD)
	SURFACE MOUNTED PANELBOARD, REFER TO ASSOCIATED PANEL SCHEDULE
	FLUSH MOUNTED PANELBOARD, REFER TO ASSOCIATED PANEL SCHEDULE
	DISTRIBUTION POWER PANEL, REFER TO ASSOCIATED PANEL SCHEDULE
T	DRY-TYPE, STEP-DOWN / STEP-UP TRANSFORMER
60/3	NON-FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSITE, AMPS / POLES AS INDICATED
60/3/45	FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSITE, AMPS / POLES / FUSE SIZE AS INDICATED
	MOTOR STARTER
60/3/45 2	COMBINATION MOTOR STARTER / FUSED DISCONNECT SWITCH, NEMA 3R IF OUTSIDE
/2	MOTOR, HP SIZE AS INDICATED, "F" = FRACTIONAL HORSEPOWER
C	CLOCK
	COMBINATION CLOCK / SPEAKER UNIT
S	SPEAKER, CEILING MOUNTED
S	SURFACE MOUNTED SOUND SYSTEM SPEAKER
M	MICROPHONE OUTLET
CS	CALL-IN SWITCH (PUSH-TO-CALL) FOR INTERCOM SYSTEM
T	THERMOSTAT
	COMBINATION VOICE / DATA OUTLET, UP 18" U.N.O.
	FLUSH CEILING VOICE / DATA OUTLET.
	FLUSH FLOOR VOICE / DATA OUTLET.
TV	CATV OUTLET
PTZ	SURVEILLANCE CAMERA. PTZ = PAN, TILT, ZOOM. WEATHER-RESISTANT IF LOCATED ON BUILDING EXTERIOR.
	EMERGENCY PUSH BUTTON
	PROJECTOR
CR	DOOR ACCESS CARD READER
I	INTERCOM HEAD-END UNIT
	DOORBELL SYSTEM PUSHBUTTON
B	DOORBELL / CHIME
M	MAGNETIC DOOR LOCK
WAP	WIRELESS ACCESS POINT
	DOOR OPERATOR PUSH-PAD UNIT (ADA COMPLIANT)
	MODULAR FURNITURE POWER CONNECTION POINT
	MOTION SENSOR FOR SECURITY / INTRUSION ALARM SYSTEM
S	SECURITY / INTRUSION ALARM SYSTEM DOOR SWITCH
	FIRE ALARM DUCT SMOKE DETECTOR
	FIRE ALARM STROBE UNIT
	FIRE ALARM AUDIO / STROBE UNIT
FPV	FIRE PROTECTION SPRINKLER SYSTEM POST INDICATOR VALVE
	FIRE ALARM SMOKE DETECTOR
	CEILING MOUNTED FIRE ALARM AUDIO / STROBE UNIT
F	FIRE ALARM MANUAL PULL STATION
FACP	FIRE ALARM CONTROL PANEL (FACP)
FARA	FIRE ALARM REMOATE ANNUNCIATOR (FARA)
R	RELAY INTERFACE

SPECIAL SYSTEMS

FIRE ALARM

IECC ELECTRICAL & LIGHTING COMPLIANCE:

THE ELECTRICAL DESIGN ILLUSTRATED BY THESE PLANS AND SPECIFICATIONS IS IN COMPLIANCE WITH THE 2021 INTERNATIONAL ENERGY CONSERVATION CODE SECTION(S) C405, C408, C501-5, CB103.3, CB103.8, 402.4.5, 402.4.6, R404, R501-5, AND R502, AS SPECIFICALLY APPLICABLE TO THIS PROJECT AS FOLLOWS:

1. C405.2 - LIGHTING CONTROLS (MANDATORY)
   A. REFER TO LIGHTING PLAN(S) AND/OR DETAIL(S) FOR PROJECT REQUIREMENTS.
2. C405.3 - INTERIOR LIGHTING POWER REQUIREMENTS
   A. TABLE C405.3.2(1)
      ALLOWABLE INTERIOR POWER FOR THIS PROJECT IS: 17,081 WATTS
      ACTUAL INTERIOR POWER IS:
3. C405.4 - EXTERIOR LIGHTING POWER REQUIREMENTS (MANDATORY)
   A. TABLE C405.5.2(1)
      - THIS PROVIDE IS IN LIGHTING ZONE # 2.
   B. TABLE 405.5.2(2)
      - BASE SITE ALLOWANCE: 400W
      - PARKING AREAS AND DRIVES: 0.04 W/FT2/
      - WALKWAYS/RAMPS < 10'-0" WIDE: 0.5W/LINEAR FT
      - WALKWAYS/RAMPS > 10'-0" WIDE,
        PLAZA AREAS, SPECIAL
        FEATURE AREAS: 1.10 W/FT2/
      - PEDESTRIAN AND VEHICULAR ENTRANCES
        AND EXITS: 14W/LINEAR FT
      - ENTRY CANOPIES: 0.25W/FT2/
   C. TABLE 405.5.2(3)
      - BUILDING FACADES: 0.075W/FT OF GROSS ABOVE-GRADE WALL AREA
      ALLOWABLE EXTERIOR POWER FOR THIS PROJECT IS: 9,185 WATTS
      ACTUAL EXTERIOR POWER IS:
4. C405.6 - ELECTRICAL TRANSFORMER (MANDATORY)
   A. LOW VOLTAGE DRY-TYPE DISTRIBUTION ELECTRICAL TRANSFORMERS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS AS TESTED AND RATED IN ACCORDANCE WITH DOE 10 CFR 431.
   B. C405.7
      - REFER TO SINGLE LINE DIAGRAM ON SHEET E-600 FOR TRANSFORMER(S) APPLICABLE TO THIS PROJECT.
5. C405.10 - VOLTAGE DROP IN FEEDERS AND BRANCH CIRCUITS
   A. REFER TO GENERAL NOTE "P" FOR PROJECT VOLTAGE DROP LIMITATIONS.
6. C405.11 - AUTOMATIC RECEPTACLE CONTROL (MANDATORY)
   A. REFER TO POWER PLAN(S) AND/OR DETAILS FOR PROJECT REQUIREMENTS.
7. C405.12 - ENERGY MONITORING (MANDATORY > 25,000FT2/)
   A. REFER TO SINGLE LINE DIAGRAM ON SHEET E-600 FOR METERING, DATA ACQUISITION SYSTEM, AND GRAPHICAL REPORTING REQUIREMENT(S) APPLICABLE TO THIS PROJECT.
8. C405.13 - ELECTRIC VEHICLE POWER TRANSFER INFRASTRUCTURE.
   A. TABLE C405.31.1 - REQUIRED EV POWER TRANSFER INFRASTRUCTURE.
      - REFER TO ELECTRICAL SINGLE LINE DIAGRAM ON SHEET E-600 FOR EVE AND EV CAPABLE REQUIREMENTS APPLICABLE TO THIS PROJECT.
9. C408.3 - FUNCTIONAL TESTING AND DOCUMENTATION OF LIGHTING CONTROLS.
   A. THE CONTRACTOR OR FACTORY AUTHORIZED COMMISSIONING AGENT SHALL DELIVER TO THE ENGINEER OF RECORD EVIDENCE OF THE LIGHTING CONTROLS HAVING BEEN TESTED AND PERFORMING PROPERLY PRIOR TO OBTAINING FINAL INSPECTION FROM THE AHJ.
   B. THE CONTRACTOR SHALL DELIVER TO THE OWNER, WITH A COMPLETE COPY DELIVERED TO THE ENGINEER OF RECORD, AS PART O ITS CLOSE-OUT PACKAGE FULLY DETAILED, LEGIBLE, AS-BUILT DRAWINGS AND THE FOLLOWING IN SATISFACTION OF THE ARTICLE(S) REFERENCED HEREIN:
      - C408.3.2.1 - LIGHTING CONTROL DRAWINGS.
      - C408.3.2.2 - LIGHTING CONTROL MANUALS.
      - C408.3.2.3 - LIGHTING CONTROL REPORT.

LUMINAIRE SCHEDULE

ALAMOGORDO NATATORIUM

TYPE	MANUFACTURER	CATALOG NUMBER	LAMP(S), DRIVER(S), SETTING(S)					DESCRIPTION	VOLT	LUMENS	MOUNTING	COMMENTS
			CRI	WATTS	TYPE	TEMP.	OUTPUT					
A	SPRUNG LIGHTING	FURNISHED BY SPRUNG STRUCTURES	80	210	LED	5000	-	DRIVERLESS NATATORIUM LIGHT		28000		
INV	EVENLITE		-		-	-		BATTERY INVERTER				
S1	LITHONIA	DSX2LED P2 30K 80 T3M MVOLT SPA NLTAIR2 PIRHN BSDB DWHXD	80	181	LED	3000	-	SINGLE POLE LIGHT - 90 DEGREES	UNV	23915	POLE	INCLUDES 20'-0" SSS WHITE POLE
S2	LITHONIA	DSX2LED P2 30K 80 T5W MVOLT SPA NLTAIR2 PIRHN BSDB BWHXD	80	362	LED	3000	-	DOUBLE POLE LIGHT - 180 DEGREES	UNV	25377	POLE	INCLUDES 20'-0" SSS WHITE POLE
W	SPRUNG...	RAB #WPLEDMW	82	24	LED	3000	MED	WALL PACK W/ INTEGRAL PC	UNV	3085	WALL	
WEM	SPRUNG...	RAB #WPLEDMW/E	82	24	LED	3000	MED	EXTERIOR EMERGENCY EGRESS	UNV	3085	WALL	BATTERY BACK-UP
XEM	LITHONIA	WLTC 1 R SD	-	5	LED	-	-	EMERGENCY EGRESS	UNV	-	SURFACE	BATTERY BACK-UP
X	LITHONIA	LHQM S RG MVOLT HO M6	-	4.5	LED	-	-	EMERGENCY TWIN-EYE UNIT	UNV	-	SURFACE	BATTERY BACK-UP

NOTES:
1. ALL EMERGENCY BALLASTS SHALL BE FACTORY INSTALLED UNLESS SCHEDULED OTHERWISE OR PRIOR APPROVED. 01-2026
2. ALL FIXTURES SHALL CONFORM TO APPLICABLE CODES INCLUDING BUT NOT LIMITED TO NIGH SKY ACT(S) AND ENERGY CONSERVATION STATUTES.
3. ANY SUBSTITUTIONS REQUIRE WRITTEN APPROVAL 10 DAYS PRIOR TO BID (ACUITY, CURRENT, AND COOPER INCLUDING THEIR SUBSIDARIES ARE GENERALLY ACCEPTED EQUALS).

PROJECT GENERAL ELECTRICAL NOTES:

A. ALL ELECTRICAL WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRICAL CODE (NEC) AND REGULATIONS OF STATE AND LOCAL AUTHORITIES HAVING JURISDICTION (AHJ) IN A NEAT AND WORKMANLIKE MANNER.

B. CONTRACTOR SHALL COORDINATE WITH SERVING UTILITY COMPANY NEW SERVICE DEPARTMENT AND OBTAIN A PROJECT SPECIFIC "STANDARDS LETTER" PRIOR TO BIDDING, ORDERING, OR COMMENCING WITH THE ELECTRICAL DISTRIBUTION PORTION OF THIS PROJECT.

C. ALL REQUIREMENTS OF THE SERVING UTILITY COMPANY FOR ELECTRICAL SERVICE SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

D. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PROVIDING TELEPHONE, CATV, AND INTERNET IN ORDER TO ASCERTAIN JOB SPECIFIC UTILITY REQUIREMENTS AND COMPLIANCE WITH THOSE REQUIREMENTS SHALL BE INCLUDED IN THE CONTRACTOR'S BID TO ENSURE SERVICE TO EACH DEMARCATION.

E. BY SUBMITTING A BID, THE CONTRACTOR AFFIRMS THEY HAVE FAMILIARIZED THEMSELVES WITH THE PROJECT SITE, PLANS, SPECIFICATIONS AND ALL APPLICABLE CODES IN ORDER TO PROVIDE A COMPREHENSIVE AND COMPLETE BID.

OFF HOUR(S) AND/OR PREMIUM TIME MAY BE REQUIRED TO FACILITATE PORTIONS OF THE WORK, AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID.

F. ALL DEVICES SHALL BE WHITE WITH STAINLESS STEEL PLATES, INSTALLED FOR ADA COMPLIANCE UNLESS NOTED OTHERWISE. RECEPTACLES SHALL ALL BE RATED FOR THEIR INTENDED USE AND TAMPER RESISTANT AS REQUIRED BY NEC 406.

G. ALL TELEPHONE, DATA, SECURITY, CATV, SOUND AND INTERCOM LOW VOLTAGE SYSTEMS ARE PROVIDED BY OTHERS UNLESS NOTED OTHERWISE. NOTE: "LOW VOLTAGE CONTRACTORS ARE REQUIRED TO OBTAIN INDEPENDENT PERMITS FROM THE AHJ PRIOR TO STARTING THEIR WORK.

H. UTILIZE "DEEP" 4-SQUARES WHERE REQUIRED TO COMPLY WITH NEC 314.16 EXTRA CONSIDERATION SHALL BE GIVEN TO BOXES SUPPLYING HOME-RUNS.

I. CONFIRM EXACT ROUGH-IN DIMENSIONS WITH ARCHITECTURAL DRAWINGS, AND APPLICABLE KITCHEN/APPLIANCE EQUIPMENT, AND FURNITURE/MILL-WORK PLAN(S). EXTRA CARE SHALL BE EXERCISED IN COORDINATING THE EXACT REQUIREMENT(S) OF SPECIALTY EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MECHANICAL EQUIPMENT, PLUMBING EQUIPMENT, MEDICAL EQUIPMENT, OR PROCESSING EQUIPMENT.

ALL PENETRATIONS IN FIRE RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE SEALED WITH FIRE STOPPING MATERIAL OR OTHER APPROVED METHOD(S) TO MAINTAIN THE FIRE RATED ASSEMBLY PER NEC 300.21. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF WALL AND FLOOR ASSEMBLIES.

ELECTRICAL DEVICES INSTALLATION SHALL COMPLY WITH ACCESSIBILITY (ADA) STATUTE ICC/ANSI 117.1 SECTION 308. SPECIFICALLY: MOUNT APPLICABLE SWITCHES, RECEPTACLES, AND ENVIRONMENTAL CONTROLS SO THAT THEY ARE LOCATED WITH THE TOP OF THE DEVICE NO HIGHER THAN 48" ABOVE FINISHED FLOOR (AFF) AND THE BOTTOM OF THE DEVICE NO LOWER THAN 15" AFF.

J. CONTRACTOR TO SAW-CUT / REMOVE / PATCH EXISTING ARCHITECTURAL SURFACES INCLUDING BUT NOT LIMITED TO SLABS, WALLS AND ROOFS.

WHENEVER BUILDING ENVELOPE OR ROOF PENETRATIONS ARE REQUIRED, OR ABANDONED, IN THE EXECUTION OF THE WORK, CONTRACTOR SHALL SEAL PENETRATIONS AS REQUIRED TO MAINTAIN APPLICABLE WARRANTIES OR AS REQUIRED BY MATERIAL(S) MANUFACTURER'S REQUIREMENTS.

K. SHARED NEUTRALS ARE NOT PERMISSIBLE UNLESS NOTED OTHERWISE.

L. CONDUCTOR TICK MARKS, WHERE SHOWN, ARE SHOWN FOR CONVENIENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONDUCTORS WHETHER SHOWN OR NOT INCLUDING "TRAVELERS" AND DIMMING CONDUCTORS AS NECESSARY FOR COMPLETELY OPERATIONAL SYSTEMS.

M. BRANCH CIRCUITING SHALL BE COPPER WIRE IN MC CABLE UNLESS SPECIFICALLY NOTED OTHERWISE. MINIMUM WIRE SIZE IS #12 AWG. WHEN CONDUIT IS UTILIZED, ALL FITTINGS SHALL BE COMPRESSION TYPE AND COLOR CODING VINYL BANDS IDENTIFYING DIFFERENT SYSTEMS SHALL BE AFFIXED AT EACH BOX, PANELBOARD, AND EVERY ACCESSIBLE 10'-0".

N. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL CONDUIT REQUIRED FOR MECHANICAL SYSTEMS CONTROLS. ALL CONTROLS WIRING SHALL BE INSTALLED AND TERMINATED BY CONTROLS CONTRACTOR. COORDINATE LOCATION AND ROUTING OF CONTROLS CONDUIT WITH MECHANICAL PLANS AND WITH MECHANICAL SEQUENCE OF CONTROLS.

O. ALL PANELS AND DISTRIBUTION BOARDS, NEW/EXISTING SHALL HAVE TYPEWRITTEN DIRECTORIES AND EQUIPMENT I.D. NAMEPLATES UPON COMPLETION OF ANY ELECTRICAL MODIFICATIONS UNDER THIS CONTRACT.

P. CONTRACTOR SHALL CONSIDER AND MAKE ADJUSTMENTS IN CONDUIT/WIRE SIZE(S) TO ACCOUNT FOR VOLTAGE DROP PRIOR TO COMMENCING WITH WORK UNDER THIS CONTRACT. VOLTAGE DROP SHALL NOT EXCEED THE FOLLOWING:

FEEDERS = 2% BRANCH WIRING = 3%

Q. CONTRACTOR SHALL COMPLY WITH NEC 110.16. AFFIX PERMANENT ARC-FLASH HAZARD WARNING LABEL(S) ON ALL APPLICABLE ELECTRICAL EQUIPMENT MODIFIED OR INSTALLED UNDER THIS CONTRACT.

R. FOR ELECTRICAL DISTRIBUTION SYSTEMS HAVING A MAIN DISCONNECT RATING OF 1,000-AMPS OR MORE, CONTRACTOR SHALL OBTAIN THIRD PARTY OVER-CURRENT PROTECTION STUDY. ALL OVER-CURRENT DEVICES SHALL BE "SET" OR ADJUSTED TO COMPLY WITH COORDINATION STUDY PRIOR TO FINAL COMMISSIONING. A FULL COPY OF THE COMPLETED STUDY ALONG WITH CONTRACTOR'S CERTIFICATION OF COMPLIANCE SHALL BE INCLUDED IN THE PROJECT'S "CLOSE-OUT" DOCUMENTATION.

S. ALL EQUIPMENT AND WORKMANSHIP FURNISHED UNDER THIS CONTRACT SHALL BE WARRANTABLE TO BE FREE FROM ANY DEFECT FOR A PERIOD EQUAL TO 1-YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

DEMOLITION GENERAL NOTES:

A. AS-BUILT CONDITIONS ARE ILLUSTRATED RESULTING FROM ENGINEER'S VISUAL OBSERVATION OF THE FACILITY OR AS-BUILT INFORMATION RECEIVED. CONTRACTOR SHALL REVIEW, INSPECT, AND TRACE OUT ALL EXISTING ELECTRICAL SYSTEMS IN ORDER TO COMPLETE A SAFE AND ORDERLY DISCONNECT/REMOVAL OF EACH SYSTEM MODIFIED UNDER THIS CONTRACT.

B. CONTRACTOR SHALL SAFE GUARD EXISTING WIRING AND DEVICES IN WALLS OR CEILINGS TO REMAIN. REFER TO ARCHITECTURAL PLAN FOR EXACT DESCRIPTION OF DEMOLITION.

C. CONTRACTOR SHALL PROPERLY DISPOSE OF, OR RECYCLE, LAMPS AND BALLASTS REMOVED BY THIS CONTRACT.

CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE INVENTORY OF FIXTURES REMOVED BY THIS CONTRACT FOR THE EXPLICIT PURPOSE OF OBTAINING ANY REBATES OFFERED BY THE SERVING UTILITY COMPANY OR OTHER REBATE PROGRAM(S) IDENTIFIED BY THE OWNER.

D. REMOVE ALL EXISTING DEVICES SHOWN (LIGHT FIXTURES, RECEPTACLES, SWITCHES, FIRE ALARM, COMMUNICATION OUTLETS, JUNCTION BOXES) ON ELECTRICAL DEMOLITION PLAN UNLESS NOTED OTHERWISE.

E. REMOVE ALL CONDUIT AND WIRE TO DEVICES SHOWN TO BE REMOVED. REMOVE ALL EXPOSED OR ACCESSIBLE CONDUIT RUNS. ABANDON CONCEALED, INACCESSIBLE CONDUIT (REMOVE WIRING) IN PLACE. CONDUIT AND WIRING SHALL BE REMOVED BACK TO PANELBOARD OR NEAREST DEVICE WHICH IS TO REMAIN.

F. CONTRACTOR SHALL MAINTAIN ALL CIRCUIT AND CONDUIT CONTINUITY TO ALL EXISTING DEVICES WHICH ARE TO REMAIN. PROVIDE ALL FIELD CIRCUIT VERIFICATION AS REQUIRED TO ENSURE CONTINUITY IS MAINTAINED.

G. EXISTING CONDUIT, WIRING, WIRE-WAYS, MC CABLE MAY REMAIN IN PLACE AND UTILIZED WHERE PRACTICAL PROVIDED IT IS PROPERLY INSTALLED AND IN GOOD CONDITION. DAMAGED EXISTING CIRCUITRY SHALL BE REPLACED.

WARNING:

CERTAIN PORTIONS OF THIS PROJECT ARE CONSIDERED "WET" OR "DAMP LOCATION(S) PER NEC ARTICLE 100. THE CONTRACTOR SHALL EXERCISE ADDITIONAL CARE IN THE INSTALLATION(S) IN THESE AREA(S) TO ENSURE COMPLIANCE WITH ALL CODE ARTICLES RELATED TO "WET" OR "DAMP" REQUIREMENTS THROUGH-OUT THE NEC. NOT ALL REQUIREMENTS ARE ILLUSTRATED ON THE DRAWINGS AND THE SELECTION OF MEANS-AND-METHODS, INCLUDING ROUTING AND SEQUENCING OF THE WORK, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SHEET LIST ELECTRICAL

Sheet Number	Sheet Name
E001	ELECTRICAL LEGEND & GENERAL NOTES
ES101	ELECTRICAL SITE PLAN
E-101	LIGHTING FLOOR PLAN
E-102	POWER FLOOR PLAN
E-103	MECHANICAL EQUIPMENT CONNECTIONS FLOOR PLAN
E-103A	POOL GROUNDING PLAN
E-103B	POOL EQUIPMENT CONNECTIONS
E-104	FIRE ALARM FLOOR PLAN
E-105	TECHNOLOGY/ SPECIAL SYSTEMS FLOOR PLAN
E-501	ELECTRICAL DETAILS
E-601	RISER DIAGRAM
E-602	PANEL SCHEDULES

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ASA PROJECT NO.: 22131L
PROJECT NO:
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SHEET TITLE:

ELECTRICAL LEGEND & GENERAL NOTES

SHEET NO:

E001

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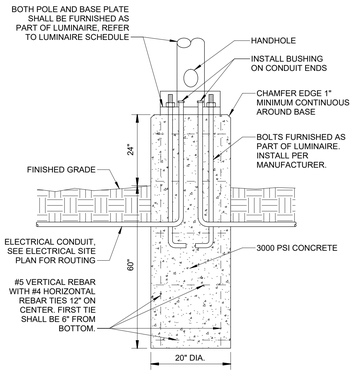
POLE BASE NOTES:

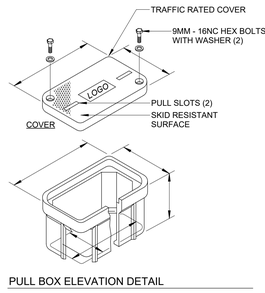
A. ALL LIGHT POLE CONCRETE BASES SHOULD BE VERIFIED WITH STRUCTURAL ENGINEER FAMILIAR WITH THE SOIL AND WIND CONDITIONS OF THIS PROJECT.

B. G.C. TO PROVIDE AND INSTALL ENTIRE POLE BASE.

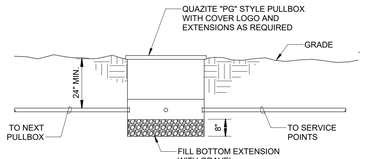
C. LIGHTING FIXTURES SHALL BE OF TYPE INDICATED ON DRAWINGS.



3 POLE BASE MOUNTING DETAIL
NOT TO SCALE



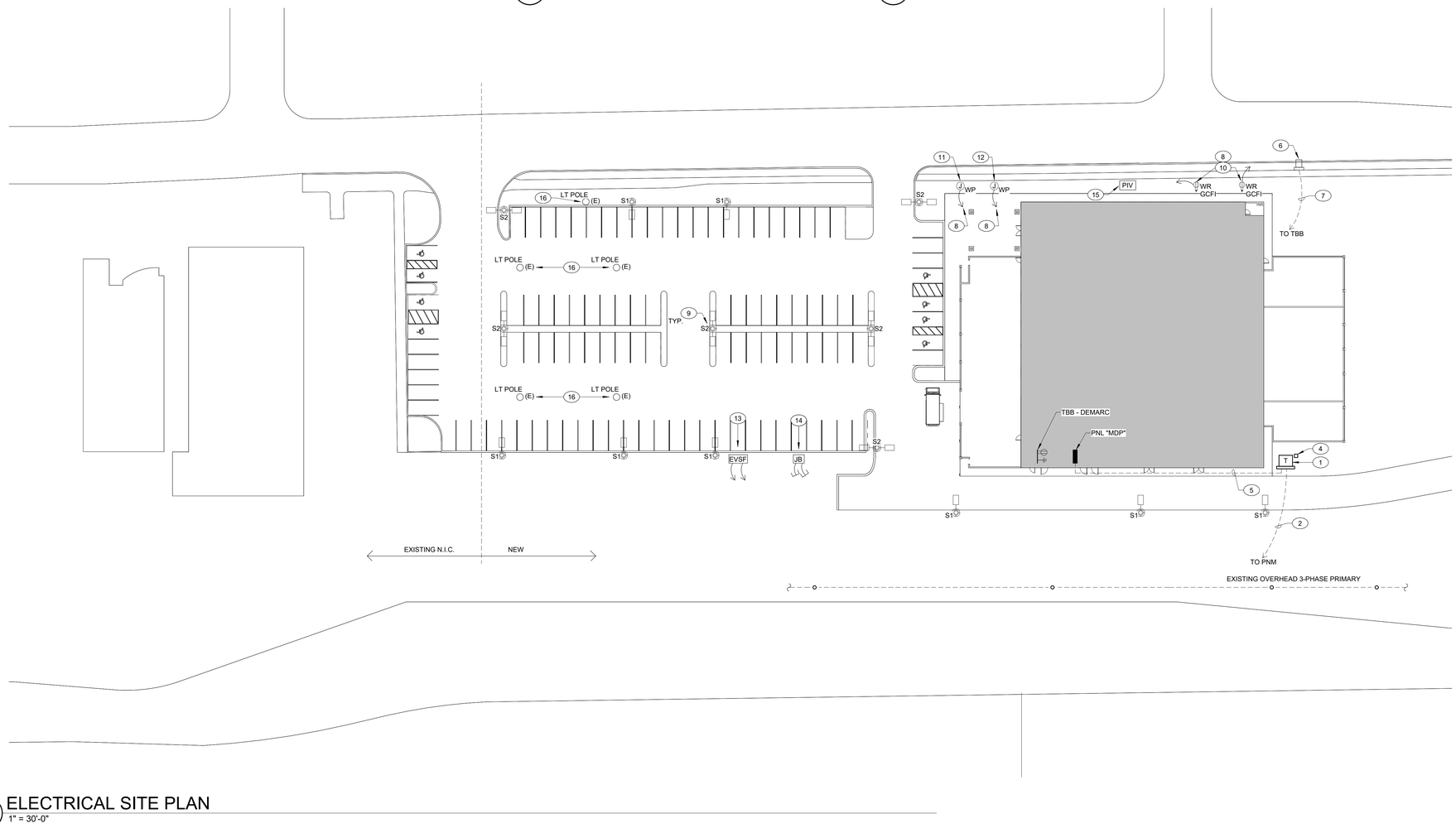
PULL BOX ELEVATION DETAIL



PULL BOX DETAIL

A. DIMENSIONS VARY; REFER TO ELECTRICAL SITE PLAN FOR SIZE(S). CONTRACTOR SHALL ADJUST PULL BOX DIMENSIONS AND MAINTAIN NEC COMPLIANCE WHEN CONDUITS ARE ADDED OR INCREASED FOR VOLTAGE DROP.

2 PULL BOX DETAIL
NOT TO SCALE



1 ELECTRICAL SITE PLAN
1" = 30'-0"

KEYED NOTES

1. UTILITY-OWNED SERVICE TRANSFORMER. REFER TO POWER RISER DIAGRAM.
2. PRIMARY UNDERGROUND SERVICE FEEDER. EXTEND 4" DUCT TO SERVICE POINT PER SERVING UTILITY COMPANY REQUIREMENTS.
3. SERVICE ENTRANCE EQUIPMENT, REFER TO POWER RISER DIAGRAM.
4. METERING EQUIPMENT PER SERVING UTILITY COMPANY REQUIREMENTS.
5. SECONDARY ELECTRIC UNDERGROUND SERVICE FEEDER, REFER TO POWER RISER DIAGRAM.
6. TELEPHONE SERVICE PEDESTAL, VERIFY EXACT LOCATION IN FIELD WITH SERVING UTILITY REPRESENTATIVE.
7. 4" PVC CONDUIT FOR TELEPHONE/DATA SERVING UTILITY WITH MULE-TAPE MEASURING PULL STRING. COORDINATE EXACT ROUTING AND SERVICE POINT WITH UTILITY PROVIDER.
8. EXTEND TO CIRCUIT INDICATED. USE #10 WIRING THROUGHOUT ENTIRE CIRCUIT.
9. POLE MOUNTED LIGHTING FIXTURE, REFER TO POLE BASE MOUNTING DETAIL.
10. WEATHER RESISTENT GFCI WITH AUDIBLE ALARM IN HOT-BOX FOR HEAT-TAPE. COORDINATE EXACT LOCATION(S) PRIOR TO ROUGH-IN.

    HOT-BOX AND HEAT-TAPE FURNISHED BY OTHERS.
11. WEATHER-PROOF JUNCTION-BOX SERVING MONUMENT SIGN. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
12. WEATHER-PROOF JUNCTION-BOX SERVING FLAG POLE WITH INTEGRAL LED LIGHT(S). COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

    FLAG POLE SPECIFIED BY ARCHITECT AND FURNISHED BY OTHERS.
13. DUAL-PORT LEVEL-2 ELECTRICL VEHICLE CHARGER FURNISHED BY OWNER. COORDINATE EXACT PLACEMENT AND REQUIREMENTS PRIOR TO ROUGH-IN. EXTEND (2) SEPERATE 1.25" CONDUIT(S) WITH (4) #2 CU AND (1) #8 CU ERG TO CIRCUIT(S) INDICATED.
14. FUTURE EVSE. PROVIDE 17X36 TIER 22 POLYMERE-CONCRETE PULL-BOX WITH ETCHED LID "ELECTRIC". EXTEND (2) SEPERATE 1.25" CONDUIT(S) TO PANEL INDICATED WITH MULE-TAPE MEASURING PULL-STRING FOR FUTURE USE. REFER TO PULL-BOX DETAIL FOR ADDITIONAL REQUIREMENTS.
15. APPROXIMATE LOCATION OF WET SPRINKLER POST INDICATOR VALVE. COODINATE EXACT LOCATION PRIOR TO ROUGH-IN, AND EXTEND 0.75" CONDUIT TO FACP. REFER TO SHEET E-104 FOR ADDITIONAL REQUIREMENTS.
16. EXISTING POLE LIGHT FED FROM EXISTING BUILDING TO BE REMOVED. REFER TO DEMOLITION GENERAL NOTES ON SHEET E001 FOR ADDITIONAL REQUIREMENTS.

WARNING:

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY IT'S FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "NM ONE CALL" PROCEDURES, OR OTHERWISE.

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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JVT
CHECKED BY: WK
SHEET TITLE:

ELECTRICAL SITE PLAN

SHEET NO:
ES101

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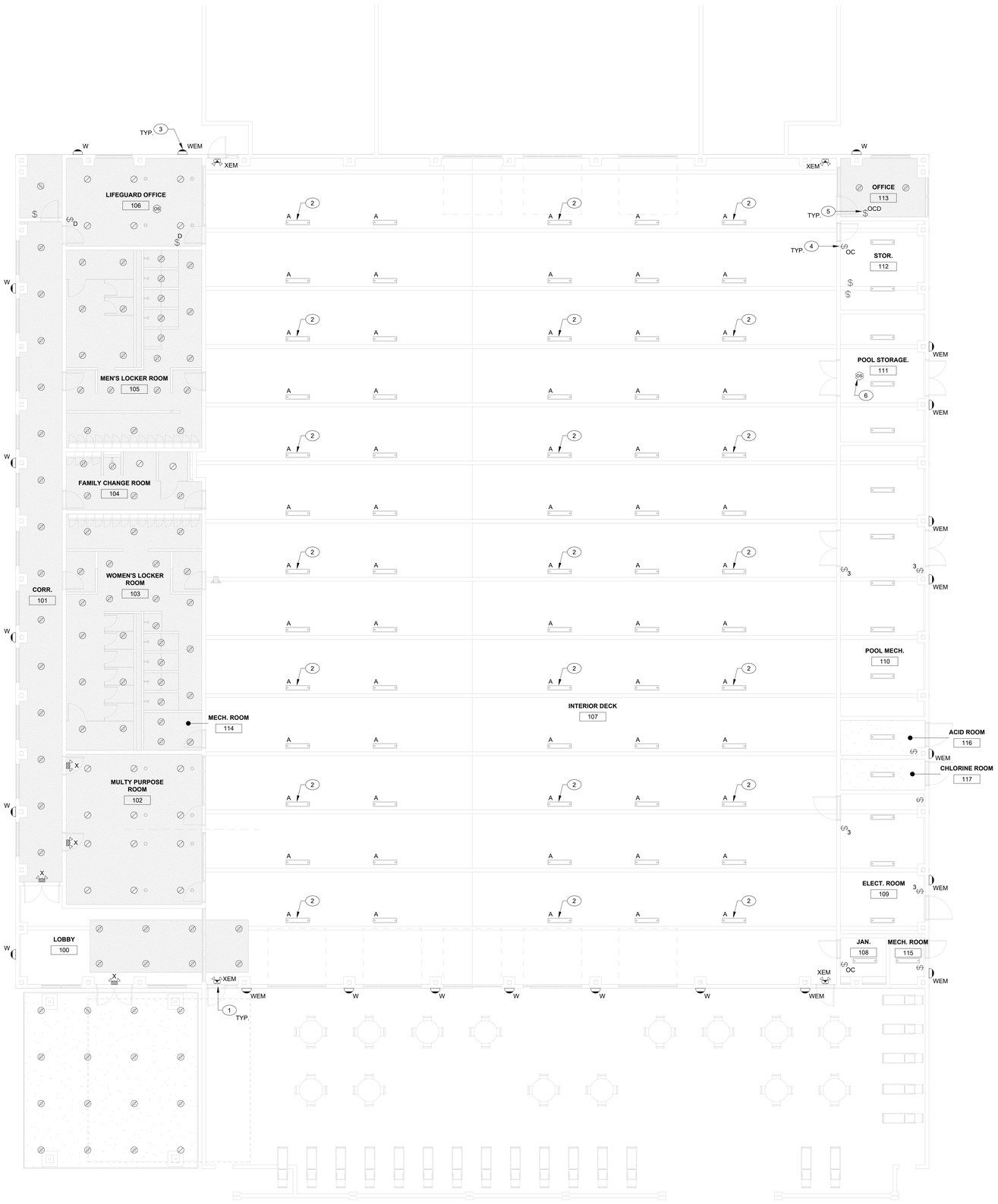

1 LIGHTING FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

KEYED NOTES

1. COMBO EXIT SIGN / EMERGENCY TWIN-EYE UNIT, TYPE "XEM", WITH EMERGENCY BATTERY PACK. REFER TO LUMINAIRE SCHEDULE. CONNECT TO UNSWITCHED (120V OR 277V) LIGHTING CIRCUIT SERVING THIS ROOM.
2. FIXTURE CONNECTED TO BATTERY INVERTER FOR EGRESS LIGHTING.
3. EXTERIOR EMERGENCY EGRESS LIGHTING UNIT, TYPE "WEM", WITH EMERGENCY BATTERY PACK. REFER TO LUMINAIRE SCHEDULE. CONNECT TO UNSWITCHED (120V OR 277V) LIGHTING CIRCUIT SERVING ADJACENT INTERIOR ROOM.
4. WALL MOUNT OCCUPANCY SENSOR, WATT-STOPPER #DW-100 OR EQUAL. SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTING WITHIN 20 MINUTES WITHOUT OCCUPANCY.
5. DUAL-TECHNOLOGY OCCUPANCY DIMMER SWITCH, WATT-STOPPER #DW-311-WH. SENSOR SHALL AUTOMATICALLY TURN OFF LIGHTS WITHIN 20 MINUTES WITHOUT OCCUPANCY.
6. CEILING MOUNTED 360-DEGREE OCCUPANCY SENSOR SYNCHRONIZED PER ZONE (DO NOT INSTALL WITHIN 5'-0" OF ANY SUPPLY OR RETURN HVAC REGISTER). DEVICE(S) SHALL EXTINGUISH LIGHT FIXTURES IN ASSOCIATED CONTROLLED ZONE WITHIN 20 MINUTES WITHOUT OCCUPANCY.

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LIGHTING FLOOR PLAN

SHEET NO:
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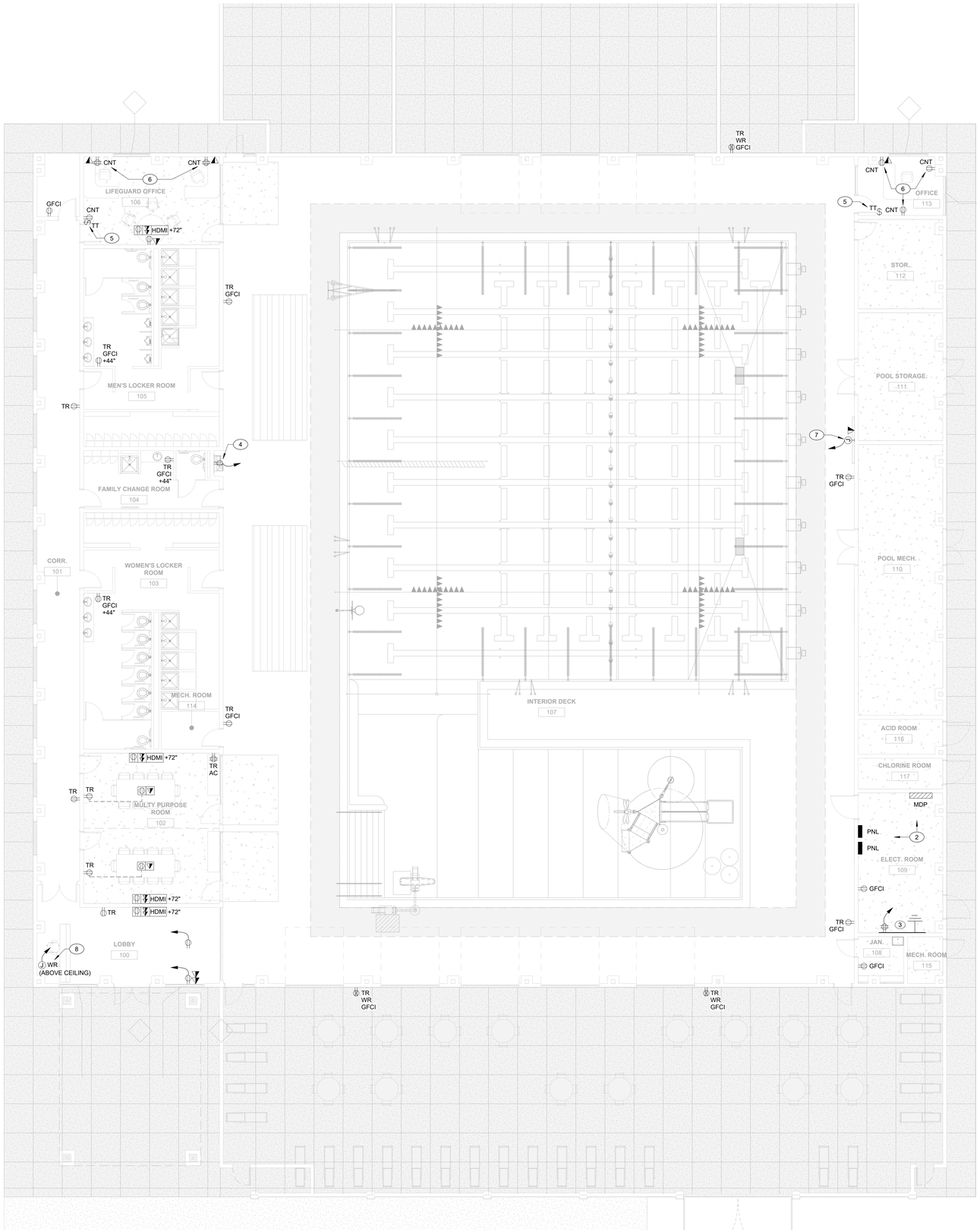

1 POWER FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

A. REFER TO SHEET E-103A AND E-103B FOR POOL GROUNDING AND POWER REQUIREMENTS.

KEYED NOTES

1. NUMBER ADJACENT TO RECEPTACLE INDICATES CIRCUIT NUMBER. SIZE CONDUCTORS ACCORDING TO CORRESPONDING BREAKER RATING AND MAKE ALL FINAL POWER CONNECTIONS.
2. MAIN SERVICE ENTRANCE EQUIPMENT, REFER TO POWER RISER DIAGRAM.
3. TELEPHONE TERMINAL CABINET (TTB) WITH DEDICATED QUADRUPLEX RECEPTACLE. REFER TO VOICE/DATA RISER DIAGRAM.
4. RECEPTACLE LOCATED BEHIND WATER COOLER. VERIFY EXACT LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN (ADJUST AS NECESSARY IF EXISTING). CONNECT TO GFCI BREAKER RATED FOR PERSONNEL PROTECTION IN COMPLIANCE WITH NEC 422.5(A) AND (B).
5. 12-HOUR SPRING WOUND TIMER SWITCH WITH HOLD FEATURE FOR CONTROLLED RECEPTACLES. INTERMATIC #FF312HH OR EQUAL. PROVIDE LABEL STATING "CONTROLLED RECEPTACLES".
6. CONTROLLED SPLIT-CIRCUIT RECEPTACLE PROPERLY MARKED IN ACCORDANCE WITH NEC 406(E). CONNECT CIRCUIT INDICATED FOR CONSTANT AND CONTROLLED OPERATION ON LOAD SIDE OF SPRING WOUND TIMER SERVING THIS ROOM.
7. JUNCTION BOX SERVING TIMING DISPLAY, REFER TO SHEET E-103B FOR ADDITIONAL REQUIREMENTS.
8. WEATHER RESISTENT JUNCTION BOX SERVING BUILDING SIGNAGE PER NEC 600.5. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.

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SHEET TITLE:	POWER FLOOR PLAN
SHEET NO:	E-102

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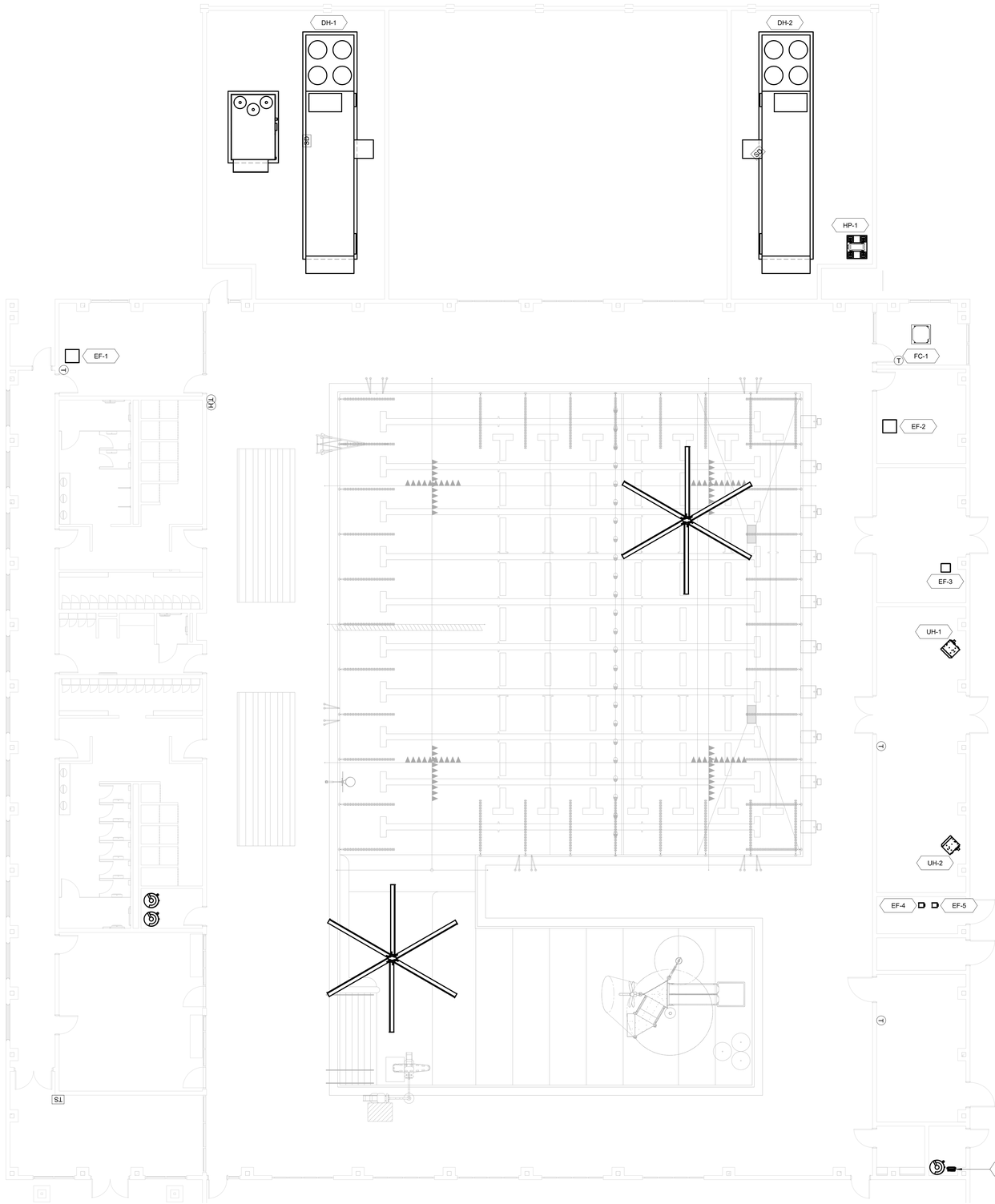
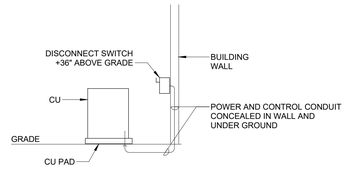


1 MECHANICAL EQUIPMENT CONNECTIONS FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

KEYED NOTES

1. WEATHER RESISTANT GFCI RECEPTACLE MOUNTED ON, OR ADJACENT TO, MECHANICAL UNIT INSTALLED IN A MANNER THAT DOES NOT IMPEDE ACCESS REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. COMPLY WITH NEC 210.63(A).
2. 30-AMP, 250-VOLT, 3-PHASE, FSS, DISCONNECT IN NEMA-3R ENCLOSURE MOUNTED ON, OR ADJACENT TO, MECHANICAL UNIT IN A MANNER THAT DOES NOT IMPEDE ACCESS REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. EXTEND .75" CONDUIT WITH (3) #10 CU AND (1) #10 CU EGR TO CIRCUIT INDICATED AND PROVIDE FUSES IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
3. 60-AMP, 250-VOLT, 3-PHASE, FSS DISCONNECT IN NEMA-3R ENCLOSURE MOUNTED ON, OR ADJACENT TO, MECHANICAL UNIT IN A MANNER THAT DOES NOT IMPEDE REQUIRED FOR ROUTINE MECHANICAL MAINTENANCE. EXTEND .75" CONDUIT WITH (3) #6 CU AND (1) #10 CU EGR TO CIRCUIT INDICATED AND PROVIDE FUSES IN ACCORDANCE WITH MANUFACTURER'S NAMEPLATE.
4. 0.75" BUSHED CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE FOR T-STAT CONTROL WIRING INSTALLED BY MECHANICAL.
5. SINGLE POLE 20-AMP THERMAL SWITCH INSTALLED ON, OR ADJACENT TO, EXHAUST FAN. EXTEND #12 CU CONDUCTORS TO CIRCUIT INDICATED.
6. TWO POLE, 20-AMP THERMAL SWITCH INSTALLED ON, OR ADJACENT TO, A/C INDOOR UNIT. EXTEND #12 CU CONDUCTORS TO CIRCUIT INDICATED.
7. EXTEND .50" CONDUIT WITH 4 #14 CU CONDUCTORS FOR LINE-VOLTAGE INTERLOCK CONTROL WIRING BETWEEN SPLIT SYSTEM OUT-DOOR UNIT AND SPLIT-SYSTEM INDOOR UNIT. COORDINATE WITH MECHANICAL PRIOR TO ROUGH-IN. ALL WIRING SHALL COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.



NOTES:
A. ENSURE WORKING CLEARANCES PRIOR TO ROUGH-IN.

2 UNDERGROUND POWER FOR RTU UNIT
1" = 1'-0"

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOAD						Termination	Notes
		Volts	Phase	HP	KVA	MCA	OCP		
AHU-1	AIR HANDLING UNIT	480	3			41	50		2,3
DU-1	DEHUMIDIFIER UNIT	480	3			210	250		2,3
DU-2	DEHUMIDIFIER UNIT	480	3			210	250		
EF-1	EXHAUST FAN	208	1			10	15		4
EF-2	EXHAUST FAN	208	1			15.6	25		2
EF-3	EXHAUST FAN	120	1			4.8	15		4
EF-4	EXHAUST FAN	120	1			2.25	15		4
EF-5	EXHAUST FAN	120	1			2.25	15		4
EF-6	EXHAUST FAN	120	1			1.5	15		4
ERV-1	ENERGY RECOVERY VENTILATOR								
EUH-1	ELECTRIC UNIT HEATER	208	1			14.7	20		4
FC-1	SPLIT FAN COIL	208	1					FED BY HP-1	4
HP-1	SPLIT HEAT PUMP	208	1			19	20		2,3
UH-1	UNIT HEATER	120	1			2.4	15		4
UH-2	UNIT HEATER	120	1			2.4	15		4
HVLS-1&2	DISTRATIFICATION FAN	208	3			12	25		2,3
WH-1	WATER HEATER								
WH-2	WATER HEATER								

NOTES: (VERIFY ALL EQUIPMENT VOLTAGES AND AMP RATING WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN). 01-2026

1. NEMA 3R fused disconnect switch or breaker provided with unit. Refer to Mechanical Equipment Schedule.
2. Provide fused disconnect switch, NEMA 3R if outside.
3. Provide 120V GFCI duplex receptacle adjacent to unit; NEMA 3R if outside. Comply with NEC 210.63
4. Provide thermal switch.
5. Provide NEMA 3R combination starter / disconnect switch. Provide OCP per approved mechanical equipment.

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MECHANICAL EQUIPMENT CONNECTIONS FLOOR PLAN

SHEET NO:
E-103

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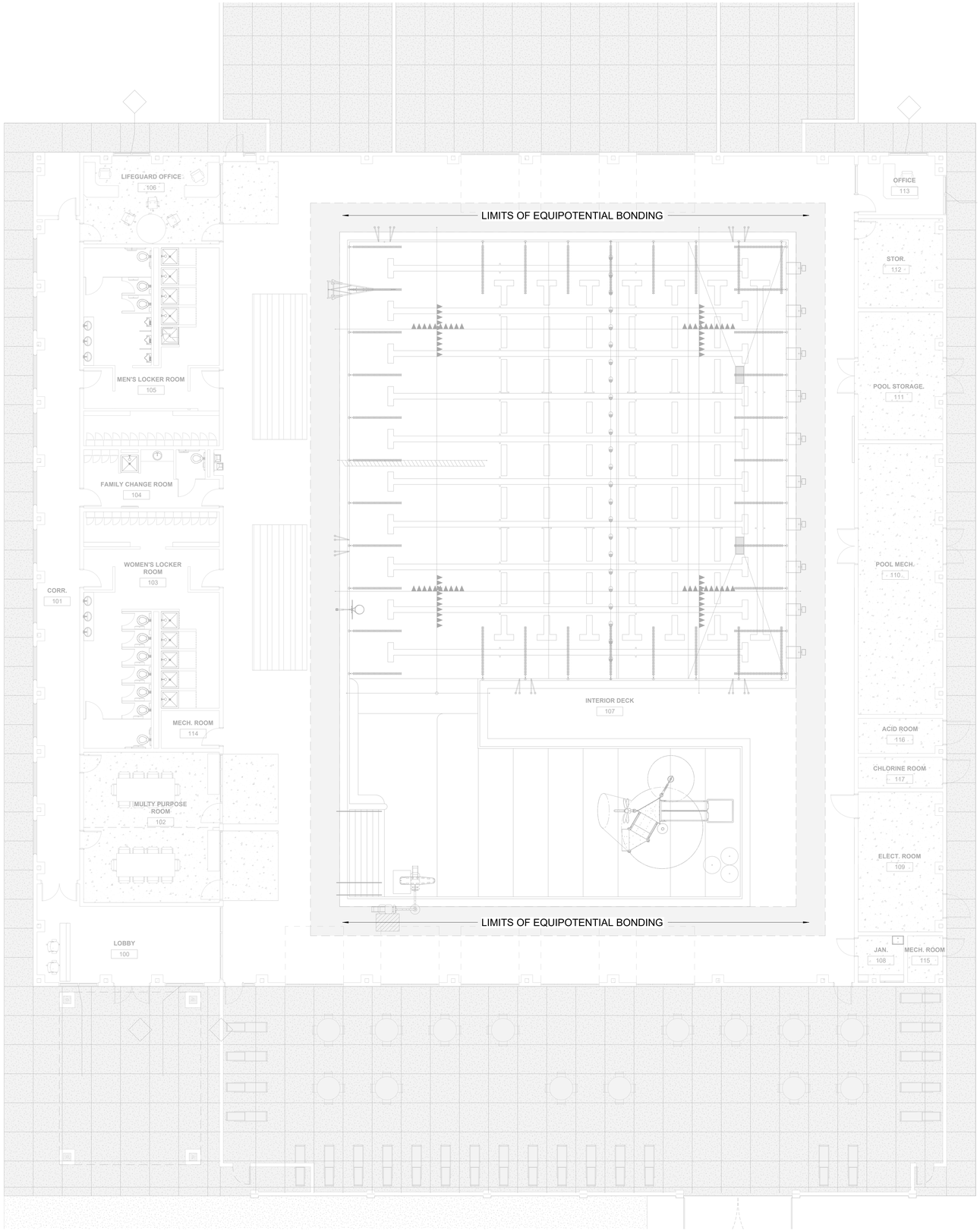


1 POOL GROUNDING PLAN
1/8" = 1'-0"

0 4' 8' 16'

WARNING:

ALL RACEWAY(S), FITTING(S), WIRING, GROUNDING, BONDING, AND DEVICE(S) SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NEC 680 AND BE LISTED AS SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED OR PASS THROUGH.

NO EXCEPTIONS

GENERAL NOTES

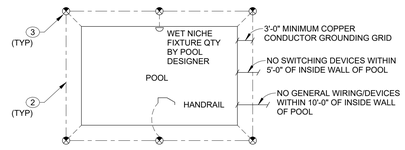
A. POOL CONTRACTOR SHALL INSTALL ALL GROUNDING/ BONDING RACEWAYS, WIRING, AND TERMINATIONS FOR ALL COMPONENTS OPERATING LESS THAN 110-VOLTS AC OR DC ASSOCIATED TO THE POOL SHELL, CONTROLS, WET NICHE FIXTURES, AND THE LIKE.

B. ELECTRICAL CONTRACTOR SHALL INSTALL ALL RACEWAYS, WIRING, AND TERMINATIONS FOR COMPONENTS OPERATING AT OR ABOVE 110-VOLTS AC.

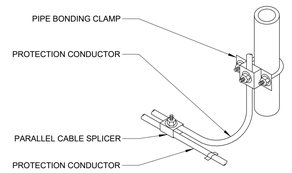
C. ALL CONTRACTORS SHALL REVIEW THE ENTIRETY OF THE CONTRACT DOCUMENTS INCLUDING THE AQUATIC CONSULTANT'S POOL DRAWINGS TO ENSURE COMPLETELY OPERATION SYSTEM(S). NO CHANGE ORDERS WILL E CONSIDERED FOR WORK THAT CAN BE REASONALY ASCERTAINED BY A CUMULATIVE REVIEW OF THE CONTRACT DOCUMENTS.

EQUIPOTENTIAL BONDING NOTES

1. CONTRACTOR SHALL PROVIDE AND INSTALL ALL REQUIRED GROUNDING AND BONDING.
2. #8 BARE COPPER.
3. ALL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED OR IRREVERSIBLE COMPRESSION CONNECTED.



2 EQUIPONTENTIAL BONDING SYSTEM DIAGRAM
1" = 1'-0"



3 PIPE BONDING
1" = 1'-0"

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ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JVT
CHECKED BY: WK
SHEET TITLE:

POOL GROUNDING PLAN

SHEET NO:
E-103A

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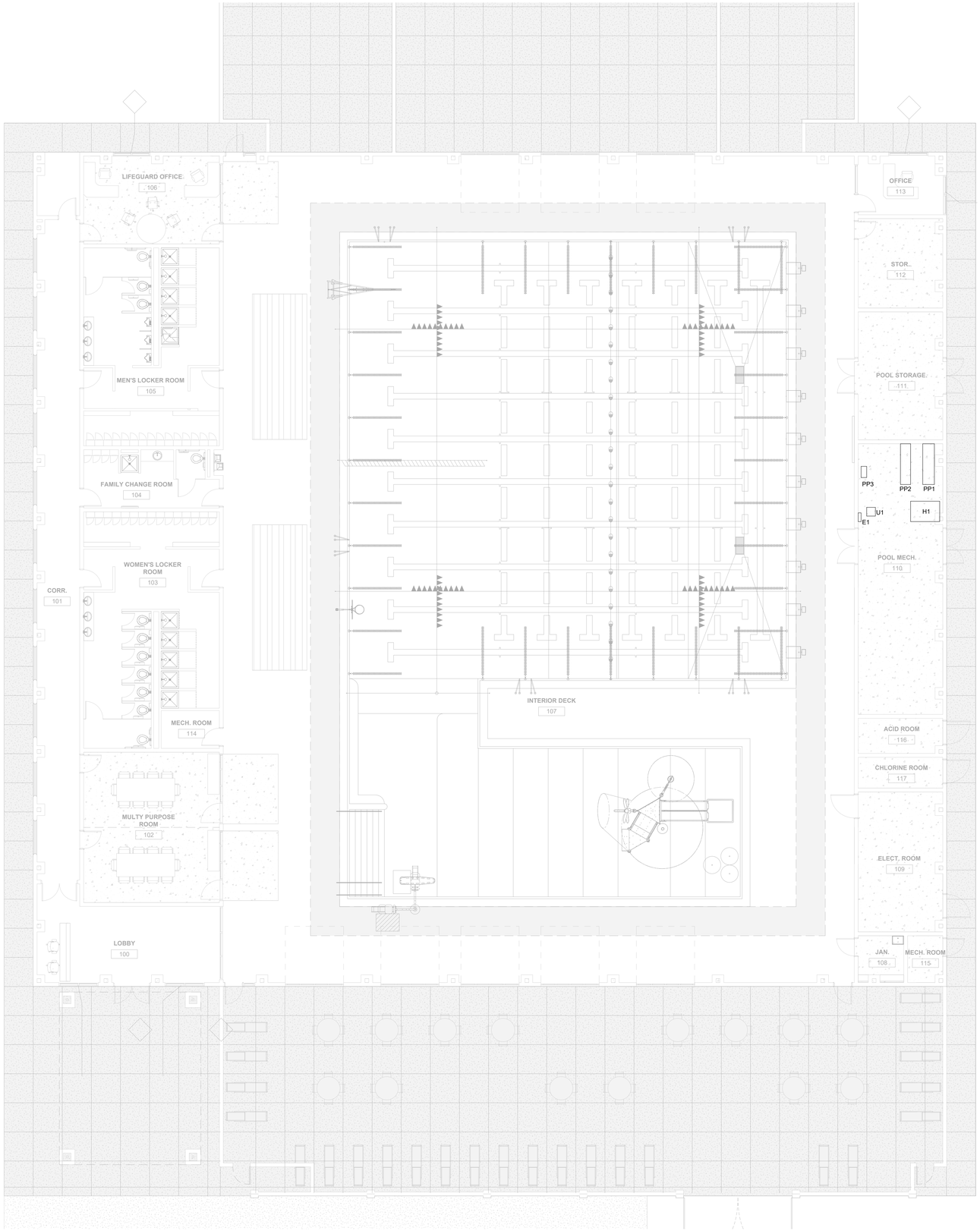

1 POOL EQUIPMENT CONNECTIONS
1/8" = 1'-0"

0 4' 8' 16'

WARNING:

ALL RACEWAY(S), FITTING(S), WIRING, GROUNDING, BONDING, AND DEVICE(S) SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NEC 680 AND BE LISTED AS SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED OR PASS THROUGH.

NO EXCEPTIONS

GENERAL NOTES

A. POOL CONTRACTOR SHALL INSTALL ALL GROUNDING/ BONDING RACEWAYS, WIRING, AND TERMINATIONS FOR ALL COMPONENTS OPERATING LESS THAN 110-VOLTS AC OR DC ASSOCIATED TO THE POOL SHELL, CONTROLS, WET NICHE FIXTURES, AND THE LIKE.

B. ELECTRICAL CONTRACTOR SHALL INSTALL ALL RACEWAYS, WIRING, AND TERMINATIONS FOR COMPONENTS OPERATING AT OR ABOVE 110-VOLTS AC.

C. ALL CONTRACTORS SHALL REVIEW THE ENTIRETY OF THE CONTRACT DOCUMENTS INCLUDING THE AQUATIC CONSULTANT'S POOL DRAWINGS TO ENSURE COMPLETELY OPERATION SYSTEM(S). NO CHANGE ORDERS WILL E CONSIDERED FOR WORK THAT CAN BE REASONALY ASCERTAINED BY A CUMULATIVE REVIEW OF THE CONTRACT DOCUMENTS.

KEYED NOTES ⬭

1. AAA

POOL EQUIPMENT CONNECTION SCHEDULE

ITEM	DESCRIPTION	LOAD						Termination	Notes
		Volts	Phase	HP	KVA	MCA	OCP		
U1	UV TREATMENT	208	1			32			
H1	HEATER	120	1			20		2X DEDICATED CIRCUITS..	
PP1	RECIRCULATION PUMP	480	3	40					1
PP2	RECIRCULATION PUMP	480	3	40					1
PP3	FEATURE PUMP	480	3	7.5					1
E1	FLOCCULATION SYSTEM	120	1		0.0054		20		3

NOTES: (VERIFY ALL EQUIPMENT VOLTAGES AND AMP RATING WITH POOL CONTRACTOR PRIOR TO ROUGH-IN). 10-2025

1. NEMA 3R fused disconnect switch or breaker provided with unit. Refer to Mechanical Equipment Schedule.
2. Provide fused disconnect switch, NEMA 3R if outside.
3. Provide 120V GFCI duplex receptacle adjacent to unit; NEMA 3R if outside. Comply with NEC 210.63
4. Provide thermal switch.
5. Provide NEMA 3R combination starter / disconnect switch. Provide OCP per approved mechanical equipment.

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ASA PROJECT NO.: 22131L
PROJECT NO:
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SHEET TITLE:

POOL EQUIPMENT CONNECTIONS

SHEET NO:
E-103B

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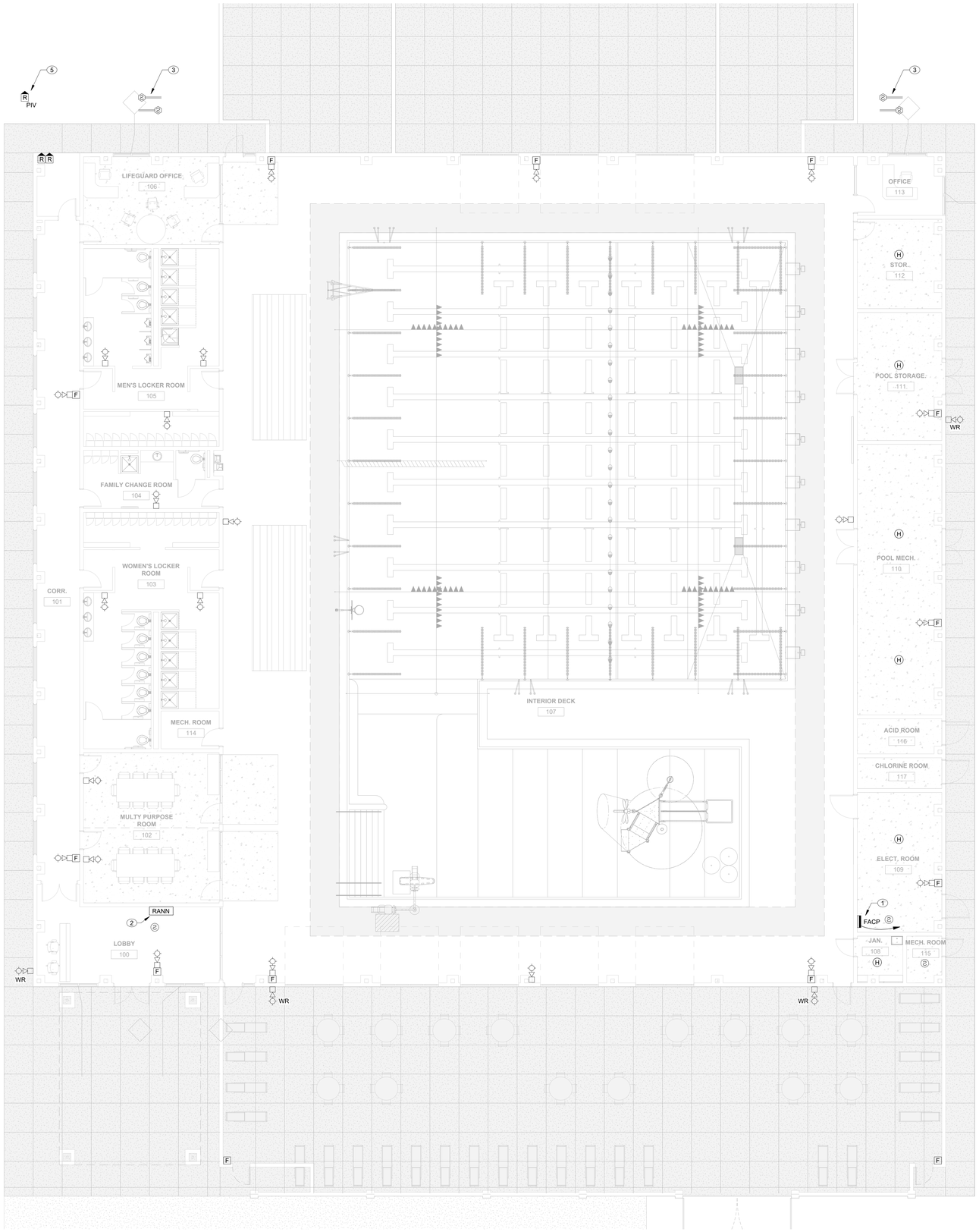


1 FIRE ALARM FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

FIRE ALARM GENERAL NOTES

A. THE FIRE ALARM CONTRACTOR SHALL EMPLOY THE SERVICES OF A NICET 3 (OR BETTER) FIRE ALARM DESIGNER AND SHALL PROCESS SHOP DRAWINGS FOR APPROVAL BY THE FIRE MARSHAL. ALL DEVICES REQUIRED BY CODE AND/OR THE AHJ, WHETHER OR NOT SHOWN ON THIS DRAWING, SHALL BE THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR AND SHALL BE INSTALLED AT NO ADDITIONAL COST.

B. ALL DEVICES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE LOCATED AND APPROPRIATELY U.L. LISTED WHENEVER APPLICABLE.

C. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 36" OF ANY AIR REGISTER (SUPPLY OR RETURN).

D. PULL STATIONS: PULL STATIONS ARE REQUIRED AT EVERY EXTERIOR MEANS OF EGRESS. MOUNT 3'-5" - 4'-5" TO CENTER OF DEVICE, LOCATE WITHIN 5' OF EXTERIOR DOOR. MAXIMUM TRAVEL BETWEEN PULL STATIONS IS 200'.

E. ALL MOUNTED STROBES AND HORN/STROBES SHALL BE LOCATED SO THE ENTIRE LENS IS BETWEEN 80" AND 96" AFF.

F. IN CORRIDORS STROBES AND HORN/STROBES SHALL BE LOCATED WITHIN 15'-0" OF THE END OF THE CORRIDOR AND NOT MORE THAN 100'-0" APART.

G. INSTALL MONITOR MODULES AT EACH FLOW AND TAMPER SWITCH (INCLUDING DAMPERS AND P.I.V.'S). VERIFY LOCATIONS WITH MECHANICAL AND FIRE SPRINKLER DRAWINGS PRIOR TO INSTALLATION.

H. INSTALL DUCT DETECTORS ON THE RETURN SIDE OF ALL AIR HANDLING UNITS RATED OVER 2000 CFM. COORDINATE OPERATING VOLTAGE PRIOR TO INSTALLATION. DUCT DETECTORS SHALL BE FURNISHED BY FIRE ALARM CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR.

I. ELECTRICAL CONTRACTOR SHALL INSTALL ALL 3/4" CONDUIT REQUIRED FOR FIRE ALARM SYSTEM. ALL CONDUIT SHALL BE RED OR HAVE RED BANDING EVERY 5'-0". BUSH ALL EXPOSED CONDUIT ENDS.

J. ALL CONDITIONS THAT APPLY SHALL COMPLY WITH NFPA 72.

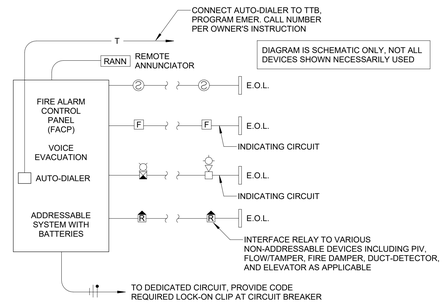
K. FIRE ALARM SYSTEM SHALL HAVE A MINIMUM 1 YEAR WARRANTY ON ALL PARTS AND INSTALLATION. UPON COMPLETION OF INSTALLATION AND TRAINING THE CONTRACTOR SHALL GIVE THE OWNER A COMPLETE COPY OF THE FIRE ALARM PROGRAMMING MANUAL (INCLUDING PASSWORDS).

L. FIRE ALARM CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE AND UPON REQUEST DEMONSTRATE AT LEAST 3 PAST PROJECTS OF SIMILAR SCALE AND SCOPE. CONTRACTOR SHALL PROVIDE 24 HOUR EMERGENCY RESPONSE SERVICES DURING THE WARRANTY PERIOD AT NO ADDITIONAL COST TO THE OWNER. INSTALLER SHALL BE RESPONSIBLE FOR CABLING, TERMINATIONS, PROGRAMMING, ETC... "PARTS & SMARTS" JOINT VENTURES ARE UNACCEPTABLE.

M. FIRE ALARM CONTRACTOR SHALL HAVE 20 CALENDAR DAYS FROM NOTICE OF AWARD TO PRODUCE JOB SPECIFIC SHOP DRAWINGS AND SUBMIT THEM TO THE FIRE MARSHAL FOR APPROVAL.

KEYED NOTES ⬭

1. FIRE ALARM CONTROL PANEL (FACP). REFER TO FIRE ALARM RISER DIAGRAM.
2. FIRE ALARM REMOTE ANNUNCIATOR (FARA) WITH VOICE COMMAND CENTER. REFER TO FIRE ALARM RISER DIAGRAM.
3. PROVIDE REMOTE INDICATOR AND RESET BUTTON FOR EACH DUCT-DETECTOR.
4. RELAY MONITOR MODULE(S) FOR FLOW AND TAMPER SWITCH. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
5. RELAY MONITOR MODULE FOR POST INDICATOR VAVLE. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.



2 FIRE ALARM SYSTEM DIAGRAM
NOT TO SCALE

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FIRE ALARM FLOOR PLAN

SHEET NO:
E-104

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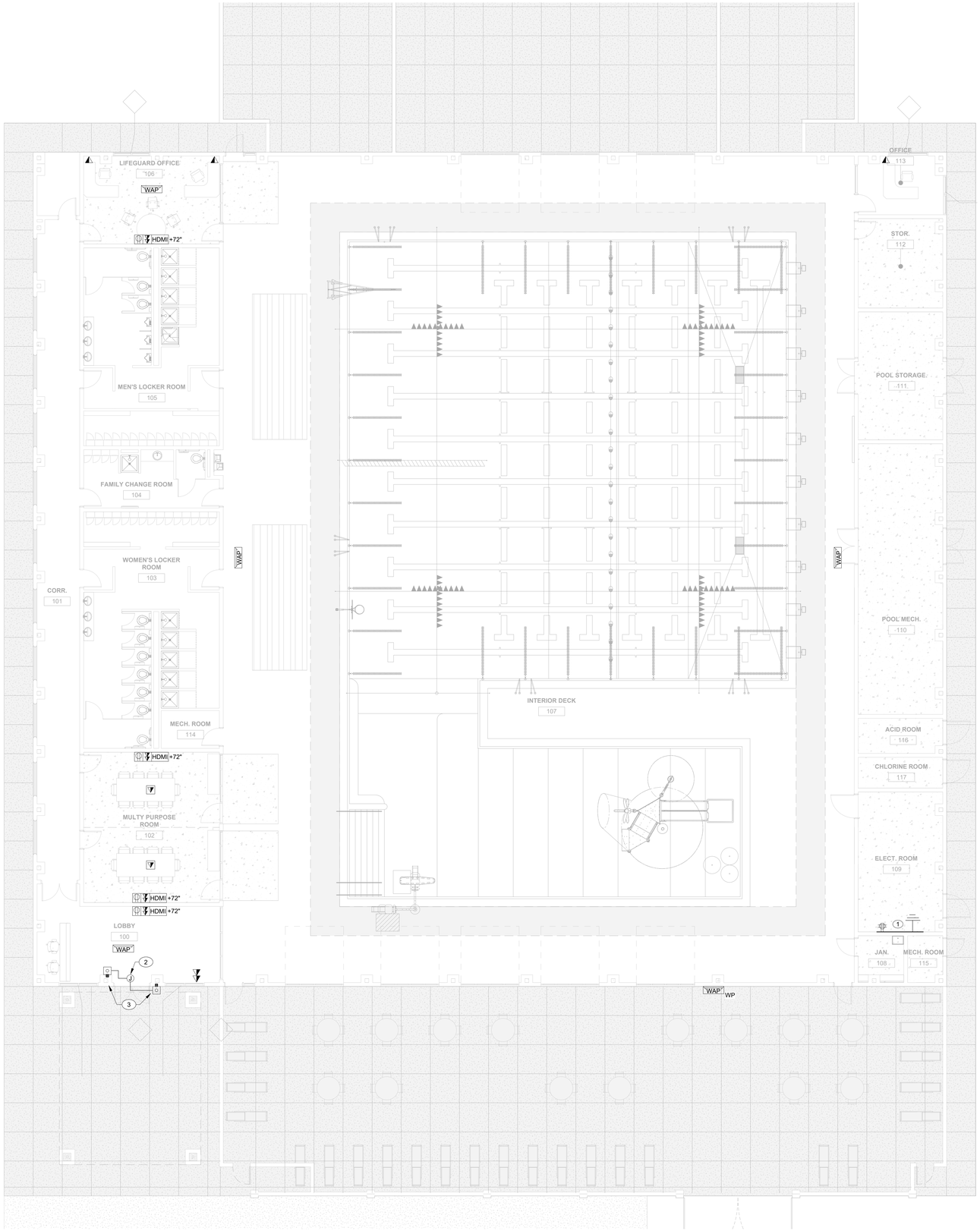

1 TECHNOLOGY/SPECIAL SYSTEMS FLOOR PLAN
1/8" = 1'-0"

0 4' 8' 16'

KEYED NOTES

1. TELEPHONE TERMINAL BACKBOARD (TTB), REFER TO TELEPHONE RISER DIAGRAM.
2. POWERED DOOR OPERATOR (ADA DOOR). PROVIDE ALL POWER AND CONTROL CONNECTIONS AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS FOR A COMPLETELY OPERATIONAL SYSTEM.
3. PUSH-PAD DOOR OPERATOR. EXTEND CONTROLS WIRING TO DOOR CONTROL.
4. VERIFY CARD READER LOCATION WITH OWNER PRIOR TO ROUGH-IN.

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TECHNOLOGY/
SPECIAL SYSTEMS
FLOOR PLAN

SHEET NO:
E-105

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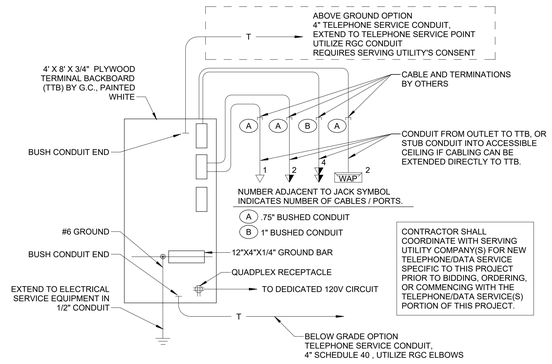
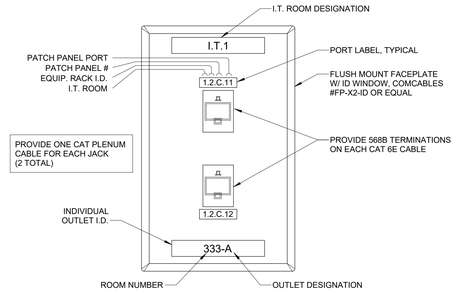


1 VOICE/DATA RISER DIAGRAM
1" = 1'-0"



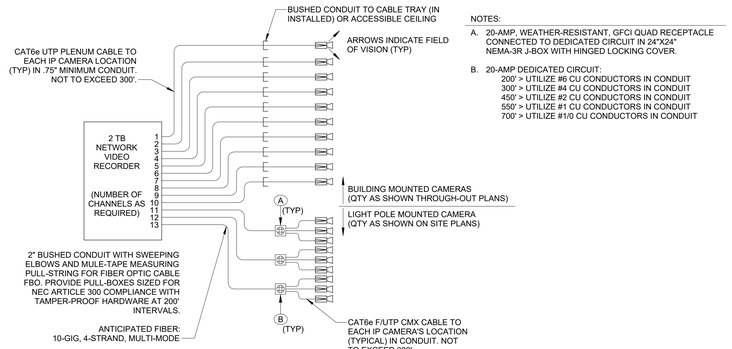
2 TYPICAL DUAL VOICE/DATA OUTLET DETAIL
1" = 1'-0"

SPECIAL SYSTEMS RESPONSIBILITY MATRIX

PROJECT NAME: ALAMOGORDO NATATORIUM
TEI JOB NO: 25086

SPEC. SEC.	ITEM-DESCRIPTION	Furnished By: OWNER	Furnished By: CONTRACTOR	Installed By: OWNER	Installed By: CONTRACTOR	COMMENTS
27 0500	LV CONDUITS/ PATHWAYS		X		X	ALL CONDUITS SHALL BE BUSHED AND INCLUDE PULL-STRINGS
27 1005	STRUCTURED CABLING		X		X	UTILIZE CAMPUS COLOR(S) STANDARDS
	MDF ROOM WIRE MGT, RACKS		X		X	
	ACTIVE ELECTRONICS	X		X		VOIP PHONES, ROUTERS, AND SWITCHES
	PATCH CORDS	X		X		
27 1005	WAPS	X		X		PROVIDE 2 CAT-6a CABLES PER LOCATION
	SOFTWARE LICENSES, FIRE WALLS	X		X		
	INTRUSTION ALARM	X		X		
	INTRUSION ALARM CABLING	X		X		UTILIZE CAMPUS COLOR(S) STANDARDS
	ACCESS CONTROL SYSTEM	X		X		
	ACCESS CONTROL CABLING	X		X		UTILIZE CAMPUS COLOR(S) STANDARDS
	CCTV SYSTEM		X		X	
27 1005	CCTV CABLING		X		X	UTILIZE CAMPUS COLOR(S) STANDARDS
	DIGITAL SIGNAGE	X		X		
27 1005	DIGITAL SIGNAGLE CABLING		X		X	PROVIDE 2 CAT-6e CABLES PER LOCATION
	PHONE/ DATA/ CATV UTILITY SERVICE	X		X		

NOTES:
1. **All equipment shall be properly U.L. labeled and in compliance with the latest IEEE/ ANSI standards.**
2. **All equipment shall be installed in strict adherence with the manufacturers instructions.**
3. **Contractor shall complete commissioning and provide 8 hours of training for each system; Owner shall have in attendance all persons responsible for the operation and maintenance of the facility.**
4. **All training shall be video-taped and provided to the Owner in digital format for future use.**

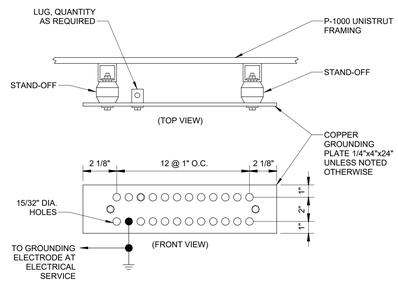


NOTES:

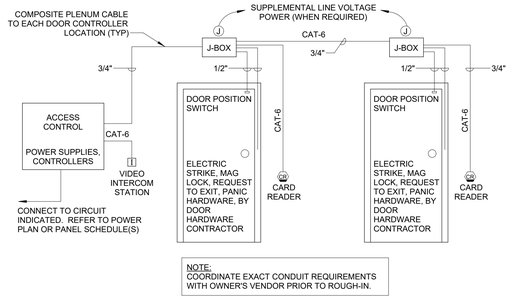
A. 20-AMP, WEATHER-RESISTANT, GFCI QUAD RECEPTACLE CONNECTED TO DEDICATED CIRCUIT IN 24"X24" NEMA-3R J-BOX WITH HINGED LOCKING COVER.

B. 20-AMP DEDICATED CIRCUIT:
200' > UTILIZE #6 CU CONDUCTORS IN CONDUIT
300' > UTILIZE #4 CU CONDUCTORS IN CONDUIT
450' > UTILIZE #2 CU CONDUCTORS IN CONDUIT
550' > UTILIZE #1 CU CONDUCTORS IN CONDUIT
700' > UTILIZE #1/0 CU CONDUCTORS IN CONDUIT

3 CCTV SYSTEM DIAGRAM
1" = 1'-0"



4 GROUND BUSBAR DETAIL
1" = 1'-0"



NOTE:
COORDINATE EXACT CONDUIT REQUIREMENTS WITH OWNER'S VENDOR PRIOR TO ROUGH-IN.

5 ACCESS CONTROLS SYSTEM DIAGRAM
1" = 1'-0"

GENERAL NOTES

A. THE REQUIREMENTS ILLUSTRATED HEREIN SHALL APPLY TO THE ENTIRE SCOPE OF THE WORK, UNLESS SPECIFICALLY MODIFIED ELSEWHERE. REFER TO PANEL SCHEDULES FOR CIRCUIT DESIGNATIONS.

B. IN THE EVENT THE CONTRACTOR BELIEVES THERE MAY BE A CONFLICT BETWEEN THE REQUIREMENTS ILLUSTRATED HEREIN, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.

C. IN THE EVENT THE CONTRACTOR REQUIRES CLARIFICATION, THE CONTRACTOR SHALL REQUEST SUCH CLARIFICATION(S) PRIOR TO COMMENSING WITH THE WORK.

CONTRACTOR SHALL NOT BE COMPENSATED OR REIMBURSED FOR "REWORK" RESULTING FROM ITS FAILURE TO OBTAIN CLARIFICATION PRIOR TO COMMENSING WITH ANY PORTION OF THE WORK.

D. ALL WIRING SHALL BE CONCEALED WHEREEVER POSSIBLE. EXPOSED WIRING SHALL BE INSTALLED PARALLEL (HORIZONTALLY & VERTICALLY) TO ARCHITECTURAL ELEMENTS. ALL EXPOSED WIRING INSTALLED WITHIN 8'-0" AFF SHALL BE IN CONDUIT.

E. DATA DROPS (ETHERNET), SPEAKER WIRES, AND SIMILAR LOW VOLTAGE CABLING, PLENUM RATED, MAY BE SUSPENDED ABOVE ACCESSIBLE CEILINGS BY J-HOOKS U.N.O.

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ASA PROJECT NO.: 22131L
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ELECTRICAL DETAILS
SHEET NO:
E-501

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SERVICE GROUNDING SYSTEM GENERAL NOTES:

A. ALL CONDUCTORS USED FOR THE GROUNDING SYSTEM SHALL BE COPPER.

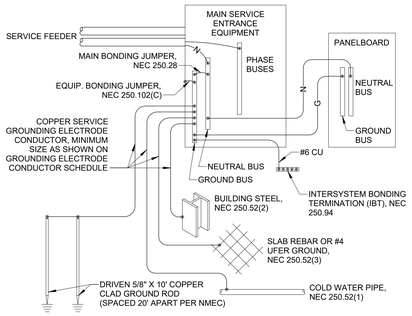
B. CONNECT THE GROUNDING SYSTEM TO THE FOUR FOLLOWING COMPONENTS IF AVAILABLE:
   1. BUILDING STEEL.
   2. METAL U.G. COLD WATER PIPE.
   3. CONCRETE ENCASED REBAR OR #4 COPPER UFER.
   4. 10' GROUND RODS.

C. ANY SPLICING SHALL BE VIA IRREVERSIBLE COMPRESSION TYPE.

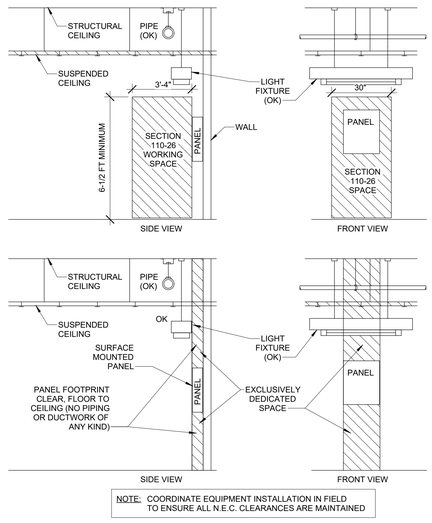
D. THE GROUNDING SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF ARTICLE 250 NEC, AND SHALL PROVIDE 5 OHMS OR LESS RESISTANCE TO GROUND. PROVIDE TEST REPORT VERIFYING RESISTANCE LEVEL IS IN COMPLIANCE WITH 5 OHM MAXIMUM.

GROUNDING ELECTRODE CONDUCTOR SCHEDULE

SERVICE AMPACITY	EQUIV. CU WIRE SIZE	MAIN BONDING JUMPER	EQUIPMENT BONDING JUMPER	METALLIC PIPE CONDUCTOR	BUILDING STEEL CONDUCTOR	REBAR OR UFER CONDUCTOR	GROUND ROD CONDUCTOR
100A	#2	#8	#8	#8	#8	#8	#8
150A	#1/0	#6	#6	#6	#6	#6	#6
200A	#3/0	#4	#4	#4	#4	#4	#6
225A	#4/0	#2	#2	#2	#2	#4	#6
400A	#600	#1/0	#1/0	#1/0	#1/0	#4	#6
600A	(2) X 350	#2/0	#2/0	#2/0	#2/0	#4	#6
800A	(2) X 600	#3/0	#3/0	#2/0	#2/0	#4	#6

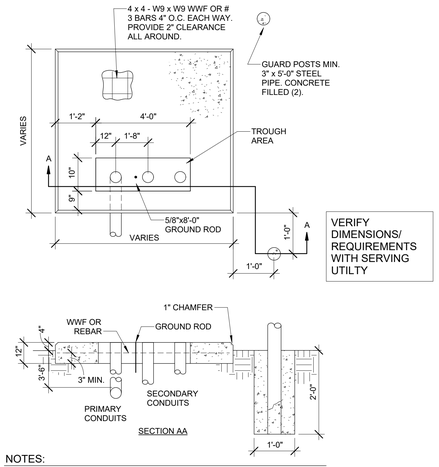


1 SERVICE GROUNDING SYSTEM DIAGRAM
NOT TO SCALE



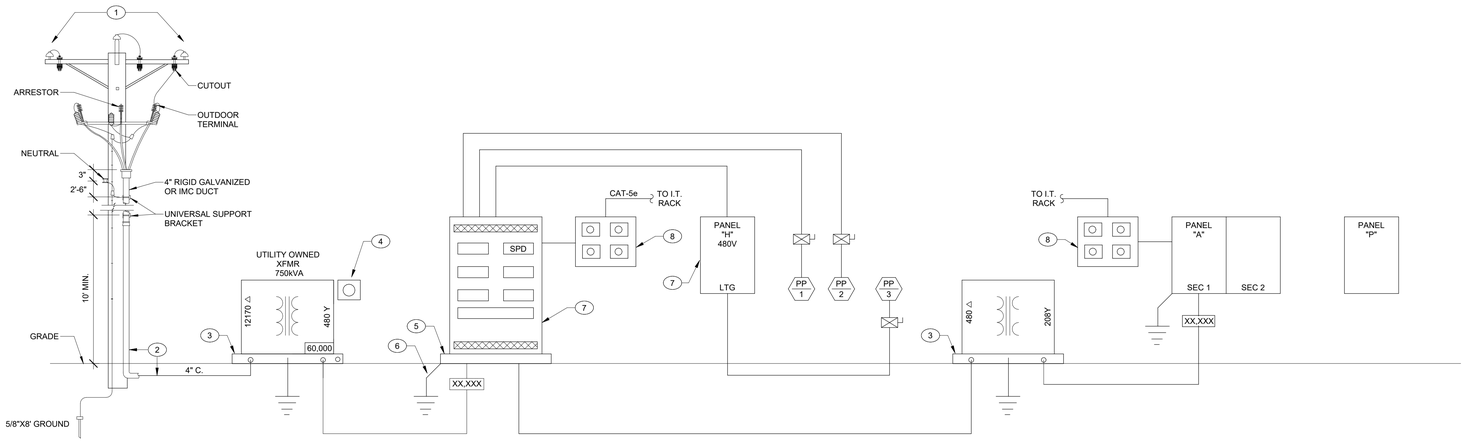
NOTE: COORDINATE EQUIPMENT INSTALLATION IN FIELD TO ENSURE ALL N.E.C. CLEARANCES ARE MAINTAINED

2 POWER PANEL CLEARANCE DIAGRAM
NOT TO SCALE



NOTES:
1. NO CONCRETE IN TROUGH AREA.
2. BRING CONDUITS UP FLUSH WITH PAD.
3. PAD SHALL BE 3000 PSI CONCRETE, LEVELED AND SMOOTH TROWELLED.

4 RADIAL TRANSFORMER PAD DETAIL
NOT TO SCALE



3 RISER DIAGRAM
NOT TO SCALE

SERVICE SIZING CALCULATIONS

SERVICE CHARACTERISTICS: 480V, 3-PHASE, 4-WIRE, 60 Hz

CONNECTED LOADS: KVA (AMPS)

FUTURE LOADS: KVA (AMPS)

ESTIMATED DEAMND: KVA (AMPS)

RECOMMEND SERVICE TRANSFORMER BE SIZED AT KVA

SHORT-CIRCUIT CALCULATIONS

MAXIMUM FAULT CURRENT AT TRANSFORMER SECONDARY = USE 60,000A PER UTILITY STANDARDS DM-4-11.0.

ALL PANELS SHALL HAVE A.I.C. AS SCHEDULED.

KEYED NOTES

1. UTILITY POLE WITH OVERHEAD 3-PHASE PRIMARY.
2. 4" PRIMARY DUCT-BANK AND RGC RISER AS REQUIRED BY PNM.
3. CONCRETE TRANSFORMER PAD AND PROTECTIVE STEEL BOLLARDS PER PNM DS-7-16.6 OR AS DIRECTED BY SERVING UTILITY.
4. TRANSFORMER MOUNTED 13-JAW METER FURNISHED BY CONTRACTOR, INSTALLED BY UTILITY COMPANY PER PNM MS-2-7.0.
5. IF REQUIRED, CONCRETE EQUIPMEMNT HOUSEKEEPING PAD 4" LARGER THAN EQUIPMENMT SERVED. UTILIZE 3,000 LB CONCRETE AND COMPLY WITH NEC 110.26(A)(3).
6. GROUNDING ELECTRODES IN COMPLIANCE WITH NEC ARTICLE 250.

   IF ONE OR MORE OF THE PRESCRIBED ELECTRODES ARE ABSENT OR INACCESSIBLE CONTRACTOR SHALL COMPLY WITH NEW MEXICO STATE CODE NMAC 14.10.4 ARTICLE 250.50.
7. PANELBOARDS. REFER TO SCHEDULE FOR ADDITIONAL REQUIREMENTS.
8. DIGITAL, SCALABLE, MULTIPLE METER SYSTEM WITH WEBSERVER HOST FOR ALL MEASURED DATA SUPERVISING SEGMENTED LOAD(S) IN COMPLIANCE WITH IECC 2021 C405.11. SOCOMEC #DIRIS DIGIBOX M6 PRO OR EQUAL.

ASA ARCHITECTS
201 N. Alameda
P.O. Box 146
Las Cruces, NM 88004
p 575.526.3111 f 575.523.9667
www.asa-architects.com

PRELIMINARY NOT FOR CONSTRUCTION

25086
TESTUDO ENGINEERING
7007 Wyoming Blvd NE Suite E-1
Albuquerque, NM 87109
WWW.TESTUDOENG.COM PH:505-554-1282

ALAMOGORDO AQUATIC CENTER
1100 OREGON AVE
ALAMOGORDO, NM 88310
FOR:
CITY OF ALAMOGORDO

ISSUE:	MARK	DATE	DESCRIPTION
			JANUARY 2026

ASA PROJECT NO.: 22131L
PROJECT NO:
DRAWN BY: JVT
CHECKED BY: WK
SHEET TITLE:

RISER DIAGRAM

SHEET NO:
E-601

1/14/2026 3:02:39 PM C:\Users\Jennifer\Documents\25086_AlamogordoNatatorium_MEP_jennifer432WH.rvt

STATE OF NEW MEXICO)
COUNTY OF OTERO) ss.
CITY OF ALAMOGORDO)

The City Commission (the "Governing Body") of the City of Alamogordo, New Mexico, met in regular session in full conformity with the law and the rules and regulations of the Governing Body at Alamogordo Municipal Offices, 1376 East Ninth Street, Alamogordo, New Mexico, being the regular meeting place of the Governing Body, on the 14th day of April, 2026, at the hour of 6:30 p.m. Upon roll call, the following members were found to be present:

Present: _____

_____

_____

_____

_____

_____

_____

Absent: _____

Also Present: _____

_____

_____

_____

Thereupon, there was officially filed with the Clerk a copy of a proposed ordinance in final form.

CITY OF ALAMOGORDO, NEW MEXICO
ORDINANCE NO. 1722

AUTHORIZING THE EXECUTION AND DELIVERY OF A LOAN AGREEMENT OR THE ISSUANCE OF BONDS BY THE CITY OF ALAMOGORDO, NEW MEXICO (THE "GOVERNMENTAL UNIT"), EVIDENCING A SPECIAL, LIMITED OBLIGATION OF THE GOVERNMENTAL UNIT TO PAY A PRINCIPAL AMOUNT NOT TO EXCEED $12,865,000, TOGETHER WITH INTEREST THEREON, FOR THE PURPOSE OF DEFRAYING THE COST TO (I) ACQUIRE, CONSTRUCT, PURCHASE, EQUIP, FURNISH, MAKE ADDITIONS TO, RENOVATE, REHABILITATE BEAUTIFY OR OTHERWISE IMPROVE THE CITY'S NATATORIUM, (II) FUND A RESERVE ACCOUNT, AND (III) PAY EXPENSES; PROVIDING FOR THE PLEDGE AND PAYMENT OF THE PRINCIPAL AND INTEREST DUE UNDER THE LOAN AGREEMENT OR BONDS SOLELY FROM THE REVENUES OF THE 0.125% MUNICIPAL INFRASTRUCTURE GROSS RECEIPTS TAX IMPOSED PURSUANT TO GOVERNMENTAL UNIT ORDINANCE NO. 1091, ADOPTED MAY 9, 2000, AS AMENDED BY GOVERNMENTAL UNIT ORDINANCE NO. 1721, ADOPTED FEBRUARY 24, 2026, AND SECTION 7-19(D)-9, NMSA 1978, AS AMENDED; APPROVING THE DELEGATION OF AUTHORITY TO MAKE CERTAIN DETERMINATIONS REGARDING THE LOAN AGREEMENT OR BONDS PURSUANT TO THE SUPPLEMENTAL PUBLIC SECURITIES ACT; RATIFYING ACTIONS HERETOFORE TAKEN; REPEALING ALL ACTION INCONSISTENT WITH THIS ORDINANCE; AND AUTHORIZING THE TAKING OF OTHER ACTIONS IN CONNECTION WITH THE EXECUTION, ISSUANCE, AND DELIVERY OF THE LOAN AGREEMENT OR BONDS.

Capitalized terms used in the following recitals have the same meaning as defined in Section 1 of this Ordinance unless the context requires otherwise.

WHEREAS, the Governmental Unit is a legally and regularly created, established, organized and existing municipality under the general laws of the State; and

WHEREAS, the Governing Body hereby determines that the Project may be financed with amounts borrowed through the incurrence of debt and that it is in the best interests of the Governmental Unit and its residents that the financing of the Project take place by executing and delivering a loan agreement or through the issuance of bonds; and

WHEREAS, the Governing Body has determined pursuant to the Act that it may lawfully pledge the Pledged Revenues for the payment of amounts due pursuant to the Debt Instrument; and

WHEREAS, the Pledged Revenues have not heretofore been pledged to secure the payment of any obligation which is currently outstanding; and

WHEREAS, the debt shall be a special, limited obligation of the Governmental Unit, payable solely from the Pledged Revenues and shall not constitute a general obligation of the Governmental Unit, or a debt or pledge of the faith and credit of the Governmental Unit or the State; and

WHEREAS, other than the Pledged Revenues, no revenues collected by the Governmental Unit shall be pledged to the payment of the Debt Instrument; and

WHEREAS, the Governing Body hereby determines that the improvements financed with the proceeds of the debt are to be used for governmental purposes of the Governmental Unit and will not be used for purposes which would cause the proposed Debt Instrument to be deemed a "private activity bond" as defined by the Internal Revenue Code of 1986, as amended; and

WHEREAS, the Governing Body intends by this Ordinance to authorize the execution, issuance, and delivery of a Debt Instrument in the amount and for the purposes set forth herein with the final debt structure, interest rates, and principal amount set forth in the Sale Certificate; and

WHEREAS, pursuant to Sections 6-14-8 through 6-14-11 NMSA 1978, as amended (the "Supplemental Public Securities Act"), the Commission is authorized to adopt an ordinance delegating to one or more of its members, City officers, or City employees the authority to sign a contract for the purchase or sale of public securities or to accept a binding bid for public securities and to determine the sale for public securities to be issued so long as such sale is within the parameters established by an authorizing ordinance adopted in conformity with the Supplemental Public Securities Act; and

WHEREAS, in order to, among other things, allow the City flexibility in setting the pricing date of the Debt Instrument and to optimize interest rates for the City, the Commission desires to grant to the Mayor, Manager, Finance Director or any other employee of the City when designated by a certificate signed by the Mayor (collectively, the "Designated Officers"), the authority (a) to determine the terms of the debt within the parameters set forth herein, including the structure of the debt, interest rates, and principal amount; and (b) to make any changes with respect thereto from those terms which were before the Commission at the time of adoption of this Ordinance, provided such terms do not exceed the parameters set forth for such terms in this Ordinance; and

WHEREAS, all required authorizations, consents and approvals in connection with (i) the use and pledge of the Pledged Revenues to the lender or purchaser for the payment of the amounts due under the Debt Instrument, (ii) the use of the proceeds of the Debt Instrument to finance the Project, and (iii) the authorization, execution, issuance and delivery of the Debt Instrument which are required to have been obtained by the date of this Ordinance, have been obtained or are reasonably expected to be obtained.

NOW, THEREFORE, BE IT ORDAINED BY THE GOVERNING BODY OF THE GOVERNMENTAL UNIT:

Section 1. Definitions. As used in this Ordinance, the following capitalized terms shall, for all purposes, have the meanings herein specified, unless the context clearly requires otherwise (such meanings to be equally applicable to both the singular and the plural forms of the terms defined):

"Acquisition Account" means the "City of Alamogordo Acquisition Account" created in this Ordinance and established for deposit of the net proceeds of the Debt Instrument for payment of the costs of the Project.

"Act" means the general laws of the State, including Sections 3-31-1 through 3-31-12, 6-14-8 through 6-14-12, NMSA 1978, and 7-19(D)-9, NMSA 1978, as amended, and enactments of the Governing Body relating to the incurrence of the debt, including this Ordinance.

"Aggregate Annual Debt Service Requirement" means the total principal and interest payments due and payable pursuant to the Debt Instrument and on all Parity Obligations secured by a pledge of any of the Pledged Revenues for any one Fiscal Year.

"Authorized Officers" means the Mayor, Manager, Finance Director, and Clerk of the Governmental Unit.

"Closing Date" means the date of execution, issuance, delivery and funding of the Debt Instrument.

"Code" means the Internal Revenue Code of 1986, as amended, and the applicable regulations thereunder.

"Debt Instrument" means the loan agreement, bonds, notes, or other form of debt authorized herein, and as determined in the Sale Certificate, to finance the completion of the Project.

"Debt Service Account" means the "City of Alamogordo Debt Service Account" created in this Ordinance for the deposit of Pledged Revenues to pay debt service on the Debt Instrument.

"Expenses" means the reasonable and necessary fees, costs and expenses incurred by the Governmental Unit in connection with the execution, issuance and delivery of the Debt Instrument and any transaction or event contemplated by the Debt Instrument and this Ordinance.

"Fiscal Year" means the period commencing on July 1 in each calendar year and ending on the last day of June of the next succeeding calendar year, or any other twelve-

month period which any appropriate authority may hereafter establish for the Governmental Unit as its fiscal year.

"Governing Body" means the City Commission of the Governmental Unit, or any future successor governing body of the Governmental Unit.

"Governmental Unit" means the City of Alamogordo, New Mexico.

"Gross Receipts Tax Income Fund" means the "City of Alamogordo Gross Receipts Tax Income Fund" created in this Ordinance for the deposit of Pledged Revenues.

"Herein," "hereby," "hereunder," "hereof," "hereinabove" and "hereafter" refer to this entire Ordinance and not solely to the particular section or paragraph of this Ordinance in which such word is used.

"NMSA" means the New Mexico Statutes Annotated, 1978 compilation, as amended and supplemented.

"Ordinance" means this Ordinance, as amended from time to time, adopted by the Governing Body on April 14, 2026 approving the incurrence of debt and pledging the Pledged Revenues.

"Parity Obligations" mean the Debt Instrument and any other obligations now or hereafter issued or incurred, payable from or secured by a lien or pledge of the Pledged Revenues and issued with a lien on the Pledged Revenues on parity with the Debt Instrument.

"Pledged Revenues" means the revenues derived from the Governmental Unit's 0.125% municipal infrastructure gross receipts tax imposed pursuant to Governmental Unit Ordinance No. 1091, adopted May 9, 2000, as amended by Governmental Unit Ordinance No. 1721, adopted February 24, 2026, and section 7-19(d)-9, NMSA 1978, as amended, imposed on all persons engaging in business in the Governmental Unit, which tax equals, subject to the exemptions specified in Section 7-19D-9 NMSA 1978, one-eighth of one percent of the gross receipts of all persons engaging in business in the Governmental Unit for the month in which the tax is distributed to the Governmental Unit (provided that the Governmental Unit is not pledging and the term "Pledged Revenues" does not include the state-shared gross receipts tax or any other local option gross receipts tax income received by the City). Pledged Revenues also means (i) the distribution to the Governmental Unit pursuant to Section 7-9-46 NMSA 1978, which is in lieu of revenue that would have been received by the Governmental Unit pursuant to Section 7-19(D)-9 NMSA 1978, but for the deductions provided by 7-9-92 and 7-9-93 NMSA 1978, and (ii) any similar distributions made to the Governmental Unit in lieu of gross receipts tax revenues.

"Project" means (i) acquiring, constructing, purchasing, equipping, furnishing, making additions to, renovating, rehabilitating, beautifying or otherwise improving the Governmental Unit's natatorium, (ii) funding of a Reserve Account, and (iii) paying Expenses.

"Reserve Account" means the "City of Alamogordo Reserve Account" created in this Ordinance for the deposit of Debt Instrument proceeds to satisfy a reserve requirement, if any.

"Sale Certificate" means one or more certificates executed by the Mayor, Manager, or Finance Director, dated on or before the date of execution, issuance, and delivery of the Debt Instrument, setting forth the final terms of the debt.

"State" means the State of New Mexico.

Section 2. Ratification. All action heretofore taken (not inconsistent with the provisions of this Ordinance) by the Governing Body and officers of the Governmental Unit directed toward the completion of the Project, the incurrence of debt and the execution, issuance, and delivery of a Debt Instrument, be, and the same hereby are, ratified, approved and confirmed.

Section 3. Authorization of the Project and the Incurrence of Debt. The Project and the method of financing the Project through the pledge of the Pledged Revenues, the incurrence of debt, and the execution, issuance, and delivery of a Debt Instrument are hereby authorized and ordered. The Project is for the benefit of the Governmental Unit and its residents.

Section 4. Findings. The Governmental Unit hereby declares that it has considered all relevant information and data and hereby makes the following findings:

A. The Project is needed to meet the needs of the Governmental Unit and its residents and the incurrence of debt in an amount not to exceed $12,865,000 through the execution, issuance, and delivery of a Debt Instrument is necessary or advisable.

B. Moneys available and on hand for the Project from all sources other than the Debt Instrument are not sufficient to defray the cost of the Project.

C. The Pledged Revenues may lawfully be pledged to secure the payment of amounts due under the Debt Instrument.

D. It is economically feasible to defray, in whole or in part, the costs of the Project through the incurrence of debt and by the execution, issuance, and delivery of a Debt Instrument.

E. The Project, the incurrence of debt, and the execution, issuance, and delivery of a Debt Instrument pursuant to the Act to provide funds for the financing of the Project are necessary and in the interest of the public health, safety and welfare of the residents of the Governmental Unit.

F. The Governmental Unit will complete the Project, in whole or in part, with the net proceeds of the Debt Instrument.

G. The Governmental Unit does not have any outstanding obligations payable from the Pledged Revenues which it has incurred or will incur prior to the initial execution, issuance, and delivery of the Debt Instrument.

H. The net effective interest rate on the debt will not exceed six percent (6.0%) per annum, with the final interest rate approved in the Sale Certificate.

Section 5. Incurrence of Debt - Authorization and Detail.

A. Authorization. This Ordinance has been adopted by the affirmative vote of a three-quarters majority of all of the members of the Governing Body. For the purpose of protecting the public health, conserving the property, protecting the general welfare and prosperity of the residents of the Governmental Unit and completing the Project, it is hereby declared necessary that the Governmental Unit, pursuant to the Act, pledge the Pledged Revenues and execute, issue, and deliver a Debt Instrument evidencing a special, limited obligation of the Governmental Unit to incur debt in a principal amount not to exceed $12,865,000, and the pledge of the Pledged Revenues and the execution, issuance, and delivery of a Debt Instrument are hereby authorized, subject to final approval of the principal amount, interest rates, and form of Debt Instrument in a subsequent Sale Certificate. The Governmental Unit shall use the proceeds of the Debt Instrument to finance the completion of the Project, fund a Reserve Account, if any, and pay Expenses.

B. Detail. The form of the Debt Instrument shall be in substantially the form approved in the Sale Certificate. The debt shall be in an original aggregate principal amount not to exceed $12,865,000, shall be payable annually in installments of principal due on June 1, shall bear interest payable semi-annually on June 1 and December 1, commencing on December 1, 2026, and shall mature no later than June 1, 2051. Each of the specific terms shall be finalized and approved in the Sale Certificate.

Section 6. Approval of Debt. Authorized Officers are hereby individually authorized to execute, acknowledge and deliver a Debt Instrument with such changes, insertions and omissions as may be approved by such individual Authorized Officers and as provided in the Sale Certificate, and the City Clerk is hereby authorized to affix the seal of the Governmental Unit on the Debt Instrument and attest the same. The execution of a Debt Instrument by an Authorized Officer shall be conclusive evidence of such approval.

Section 7. Special Limited Obligation. The approved debt shall be secured by the pledge of the Pledged Revenues as set forth herein and shall be payable solely from the Pledged Revenues. The debt shall be a special, limited obligation of the Governmental Unit, payable solely from the Pledged Revenues as provided in this Ordinance, and shall not constitute a general obligation of the Governmental Unit or the State, and the holders of the Debt Instrument may not look to any general or other fund of the Governmental Unit for payment of the obligations thereunder. Nothing contained in this Ordinance nor in any Debt Instrument, shall be construed as obligating the Governmental Unit (except with respect to the application of the Pledged Revenues), as incurring a pecuniary liability or a charge upon the general credit of the Governmental Unit or against its taxing power, nor shall a breach of any agreement contained in this Ordinance, or any debt instrument impose any pecuniary liability upon the Governmental Unit or any charge upon its general credit or against its taxing power. The debt approved herein shall never constitute an indebtedness of the Governmental Unit within the meaning of any State constitutional provision or statutory limitation and shall never constitute or give rise to a pecuniary liability of the Governmental Unit or a charge against its general credit or taxing power. Nothing herein shall prevent the Governmental Unit from applying other funds of the Governmental Unit legally available therefor to payments required by the Debt Instrument, in its sole and absolute discretion.

Section 8. Disposition of Proceeds: Completion of the Project.

A. Acquisition Account, Gross Receipts Tax Income Fund, Debt Service Account and Reserve Account. The Governmental Unit hereby consents to creation of the (i) Debt Service Account, (ii) Acquisition Account, (iii) Gross Receipts Tax Income Fund, and (iv) Reserve Account, each in connection with the debt.

The proceeds derived from the execution, issuance, and delivery of a Debt Instrument shall be deposited promptly upon the receipt thereof in the Acquisition Account, the Reserve Account, if any, and the Debt Service Account, as provided in the Sale Certificate.

The money in the Acquisition Account shall be used and paid out solely for the purpose of completing the Project in compliance with applicable law and the provisions of the Debt Instrument.

The Governmental Unit will complete the Project with all due diligence.

B. Completion of the Project. Upon completion of the Project, any balance remaining in the Acquisition Account shall be transferred and deposited into the Debt Service Account, as provided in the Debt Instrument.

C. Purchaser/Lender Not Responsible. The purchaser or lender shall in no manner be responsible for the application or disposal by the Governmental Unit or by its officers of the funds derived from the debt or of any other funds herein designated.

Section 9. Deposit of Pledged Revenues, Distributions of the Pledged Revenues and Flow of Funds.

A. Deposit of Pledged Revenues. Pledged Revenues shall deposited in the Debt Service Account in an amount sufficient to pay principal, interest and other amounts due under the Debt Instrument.

B. Termination on Deposits to Maturity. No payment shall be made into the Debt Service Account if the amount in such account totals a sum at least equal to the entire aggregate amount to become due as to principal and interest on, and any other amounts due under, Debt Instrument in which case moneys in such account in an amount at least equal to such principal and interest requirements shall be used solely to pay such obligations as the same become due, and any moneys in excess thereof in such account shall be transferred to the Governmental Unit and used as provided below.

C. Use of Surplus Revenues. After making all the payments hereinabove required to be made by this Section, any moneys remaining in the Debt Service Account shall be applied to any other lawful purpose, including, but not limited to, the payment of Parity Obligations and bonds or obligations subordinate and junior to the loan Debt Instrument, or other purposes authorized by the Governmental Unit, the Constitution and laws of the State, as the Governmental Unit may from time to time determine.

Section 10. Lien on Pledged Revenues. The Pledged Revenues are hereby authorized to be pledged to, and are hereby pledged, and the Governmental Unit grants a security interest therein for, the payment of the principal, interest, and any other amounts due under the Debt Instrument, subject to the uses thereof permitted by and the priorities set forth in this Ordinance constitutes an irrevocable lien and a first lien, but not necessarily an exclusive first lien, on the Pledged Revenues with the lien thereon of the Parity Obligations as set forth herein and therein. The Governmental Unit shall not create a lien on the Pledged Revenues superior to that of the debt authorized herein.

Section 11. Authorized Officers. Authorized Officers are hereby individually authorized and directed to execute and deliver any and all papers, instruments, opinions, affidavits and other documents and to do and cause to be done any and all acts and things necessary or proper for carrying out this Ordinance and all other transactions contemplated hereby and thereby. Authorized Officers are hereby individually authorized to do all acts and things required of them by this Ordinance for the full, punctual and complete performance of all the terms, covenants and agreements contained in this Ordinance, the Debt Instrument, including but not limited to, the execution and delivery of closing documents in connection with the execution and delivery of the Debt Instrument and the publication of the summary of this Ordinance set out in Section 17 of this Ordinance (with such changes, additions and deletions as may be necessary).

Pursuant to the Supplemental Public Securities Act, Section 6-14-8 et seq., NMSA 1978, the Mayor, Manager, or Finance Director is hereby delegated authority to

execute the Sale Certificate and to determine any or all of the final terms of the debt, subject to the parameters and conditions contained in this Ordinance. The Manager shall present the Sale Certificate to the Governing Body in a timely manner, before or after the execution, issuance, and delivery of the Debt Instrument, at a regularly scheduled public meeting of the Governing Body.

Section 12. Amendment of Ordinance. This Ordinance may be amended by ordinance of the Governing Body without receipt by the Governmental Unit of any additional consideration. This Ordinance will be supplemented by the terms set forth in the Sale Certificate.

Section 13. Ordinance Irrepealable. After the Debt Agreement has been executed and delivered, this Ordinance shall be and remain irrepealable until all obligations due under the Debt Instrument shall be fully paid, canceled and discharged, as herein provided.

Section 14. Severability Clause. If any section, paragraph, clause or provision of this Ordinance shall for any reason be held to be invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this Ordinance.

Section 15. Repealer Clause. All bylaws, orders, resolutions and ordinances, or parts thereof, inconsistent herewith are hereby repealed to the extent only of such inconsistency. This repealer shall not be construed to revive any bylaw, order, resolution or ordinance, or part thereof, heretofore repealed.

Section 16. Effective Date. Upon due adoption of this Ordinance, it shall be recorded in the book of the Governmental Unit kept for that purpose, authenticated by the signatures of the Mayor and Clerk of the Governmental Unit, and the title and general summary of the subject matter contained in this Ordinance (set out in Section 17 below) shall be published in a newspaper which maintains an office and is of general circulation in the Governmental Unit, or posted in accordance with law, and said Ordinance shall be in full force and effect thereafter, in accordance with law.

Section 17. General Summary for Publication. Pursuant to the general laws of the State, the title and a general summary of the subject matter contained in this Ordinance shall be published in substantially the following form:

(Form of Summary of Ordinance for Publication)

City of Alamogordo, New Mexico
Notice of Adoption of Ordinance

Notice is hereby given of the title and of a general summary of the subject matter contained in Ordinance No. 1722 duly adopted and approved by the Governing Body of the City of Alamogordo, New Mexico, on April 14, 2026. A complete copy of the

Ordinance is available for public inspection during the normal and regular business hours of the City Clerk, 1376 East Ninth Street, Alamogordo, New Mexico.

The title of the Ordinance is:

CITY OF ALAMOGORDO, NEW MEXICO
ORDINANCE NO. 1724

AUTHORIZING THE EXECUTION AND DELIVERY OF A LOAN AGREEMENT OR THE ISSUANCE OF BONDS BY THE CITY OF ALAMOGORDO, NEW MEXICO (THE "GOVERNMENTAL UNIT"), EVIDENCING A SPECIAL, LIMITED OBLIGATION OF THE GOVERNMENTAL UNIT TO PAY A PRINCIPAL AMOUNT NOT TO EXCEED $12,865,000, TOGETHER WITH INTEREST THEREON, FOR THE PURPOSE OF DEFRAYING THE COST TO (I) ACQUIRE, CONSTRUCT, PURCHASE, EQUIP, FURNISH, MAKE ADDITIONS TO, RENOVATE, REHABILITATE BEAUTIFY OR OTHERWISE IMPROVE THE CITY'S NATATORIUM, (II) FUND A RESERVE ACCOUNT, AND (III) PAY EXPENSES; PROVIDING FOR THE PLEDGE AND PAYMENT OF THE PRINCIPAL AND INTEREST DUE UNDER THE LOAN AGREEMENT OR BONDS SOLELY FROM THE REVENUES OF THE 0.125% MUNICIPAL INFRASTRUCTURE GROSS RECEIPTS TAX IMPOSED PURSUANT TO GOVERNMENTAL UNIT ORDINANCE NO. 1091, ADOPTED MAY 9, 2000, AS AMENDED BY GOVERNMENTAL UNIT ORDINANCE NO. 1721, ADOPTED FEBRUARY 24, 2026, AND SECTION 7-19(D)-9, NMSA 1978, AS AMENDED; APPROVING THE DELEGATION OF AUTHORITY TO MAKE CERTAIN DETERMINATIONS REGARDING THE LOAN AGREEMENT OR BONDS PURSUANT TO THE SUPPLEMENTAL PUBLIC SECURITIES ACT; RATIFYING ACTIONS HERETOFORE TAKEN; REPEALING ALL ACTION INCONSISTENT WITH THIS ORDINANCE; AND AUTHORIZING THE TAKING OF OTHER ACTIONS IN CONNECTION WITH THE EXECUTION AND DELIVERY OF THE LOAN AGREEMENT OR BONDS.

A general summary of the subject matter of the Ordinance is contained in its title. This notice constitutes compliance with Section 6-14-6, NMSA 1978.

(End of Form of Summary for Publication)

PASSED, APPROVED AND ADOPTED THIS 14th DAY OF APRIL, 2026.

CITY OF ALAMOGORDO, NEW MEXICO

By_____
Mayor

[SEAL]

ATTEST:

By _____
Clerk

Commissioner _____ then moved adoption of the foregoing Ordinance, duly seconded by Commissioner _____.

The motion to adopt said Ordinance, upon being put to a vote, was passed and adopted on the following recorded vote:

Those Voting Aye: _____

_____

_____

_____

_____

_____

_____

Those Voting Nay: _____

Those Absent: _____

_____ (__) members of the Governing Body having voted in favor of said motion, the Mayor declared said motion carried and said Ordinance adopted, whereupon the Mayor and the Clerk signed the Ordinance upon the records of the minutes of the Governing Body.

After consideration of matters not relating to the Ordinance, the meeting on the motion duly made, seconded and unanimously carried, was adjourned.

CITY OF ALAMOGORDO, NEW MEXICO

By _____
Mayor

[SEAL]

ATTEST:

By_____
Clerk

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/09/2026 **Report No:** 10.

Submitted By:

Subject: Consider, and act upon first publication of Ordinance 1723 Declaring the Need to Designate Certain Property in Otero County as a Metropolitan Redevelopment Area. *(Chris Muirhead, Modrall Sperling)* **(Roll Call Vote Required)**

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation:

Background: The proposed ordinance declares the need for Otero County to designate approximately 151 acres within the City of Alamogordo (Mesa Village/Sendero area) as an MRA under the New Mexico Metropolitan Redevelopment Code. The designation would support redevelopment of currently undeveloped or underutilized land, including proposed housing by a private developer. Because the area lies within city limits, the City must adopt a “Necessity Ordinance” for the County to proceed.

At its January 27, 2026, meeting, the City Commission agreed to work with Otero County in its efforts to pursue an MRA designation for the Sendero project. This ordinance formalizes that cooperation and establishes conditions for City involvement in the redevelopment plan and oversight.

CITY OF ALAMOGORDO, NEW MEXICO
ORDINANCE NO. 1723

DECLARING THE NEED FOR DESIGNATION BY OTERO COUNTY, NEW MEXICO BY AND THROUGH THE COUNTY'S BOARD OF COUNTY COMMISSIONERS OF CERTAIN REAL PROPERTY WITHIN THE COUNTY'S AREA OF OPERATION OVERLAPPING THE MUNICIPAL BOUNDARIES OF THE CITY OF ALAMOGORDO AS A METROPOLITAN REDEVELOPMENT AREA.

WHEREAS, the City of Alamogordo, New Mexico (the "City") is a legally and regularly created, established, organized and existing municipality under the general laws of the State of New Mexico; and

WHEREAS, the New Mexico legislature has passed the "Metropolitan Redevelopment Code" (the "Code"), Sections 3-60A-1 to 3-60A-49 inclusive, NMSA 1978, as amended, which authorizes local governments, including Otero County, New Mexico (the "County"), to designate blighted areas that constitute a serious and growing concern, injurious to the public health, safety, morals and welfare of the residents of the state, as Metropolitan Redevelopment Areas (as defined in the Code) and prepare a Metropolitan Redevelopment Plan (as defined in the Code) for the rehabilitation or redevelopment of such areas; and

WHEREAS, the Code authorizes the local government forming the district to afford maximum opportunity for the rehabilitation or redevelopment of Metropolitan Redevelopment Areas to private enterprise; and

WHEREAS, the City is in need of additional housing opportunities and the County has received from a private enterprise (the "Developer") a proposal for the construction of housing in an area of the County, within the City, that the County believes is blighted (the "Proposed Redevelopment Area"); and

WHEREAS, the Proposed Redevelopment Area is all or a portion, as determined by the County, of the property described below:

> The Mesa Village Metropolitan Redevelopment Area (the "Mesa Village MRA") encompasses approximately 151.641 acres of undeveloped and partially developed land located within the corporate limits of the City of Alamogordo, Otero County, New Mexico, in Sections 11 and 12, Township 16 South, Range 9 East, New Mexico Principal Meridian (NMPM). The majority of the area is owned by Mesa Verde Ranch Holdings, LLC. Tracts 1B1 and 1B2 (13.265 acres), comprising the Sendero Alamo Phase 1 site, are owned by Military Housing Authority LLC pursuant to a warranty deed recorded March 2, 2026.
>
> The proposed Mesa Village MRA is bounded generally as follows: on the north by the Charlie Lee Memorial Relief Route (US 54

Bypass) right-of-way; on the east by Las Palomas Road and Mesa Village Drive; on the south by Mesa Verde Ranch Road; and on the west by the easternmost boundary of the Otero County courthouse and sheriff's office complex (Parcel F remainder), and includes the following parcels:

Parcel	Acres (+/-)	Assessor Account	Assessor Parcel No.	Legal / Instrument Reference
Tract 1, Lot 1A (bulk residential parcels A, B, C, D, G, I, M)	122.797 (136.117 per legal)	R022829	01N4053092399367	Mesa Village Replat Tract 1, Lot 1A; Inst. No. 202410396 (Nov. 2024 Plat); Prev. Parcel ID 01-14433; Land ID legal: 136.117 ac (includes replat area); Account #90865
Sendero Alamo Phase 1, Tracts 1B1 and 1B2 (Sendero Apartments site; active development)	13.265 (1B1: 7.243; 1B2: 6.022)	TBD (split from R022829 pending)	TBD (split pending)	Sendero Alamo Phase 1; Replat of Tract 1B, Replat of Tract 1, Mesa Village Summary Plat; filed February 10, 2026, Inst. No. 202601091. Conveyed to Military Housing Authority LLC (124 Townsgate Plaza, Clovis NM 88101) by Warranty Deed, recorded March 2, 2026, Inst. No. 202601596; Casa Y Tierra File No. 26-0006A. Grantor: Mesa Verde Ranch Holdings LLC (Randal L. Rabon, Member).
Lot 1A — Replat A (commercial)	5.120	R023585	01N4054092184499	Mesa Village Unit 1 Replat A, Lot 1A; 3452 Las Palomas Rd / 3421 Mesa Village Dr; Prev. Parcel ID 01-15200
Tract 7F — Replat F (Parcel F private portion)	3.261	R023587	01N4053092243390	Mesa Village Unit 1 Replat F, Tract 7F; Plat No. 23177; Inst. No. 202405684 (06-28-2024); 3750 Mesa Village Dr; see Sec. V metes & bounds. Reconveyed to Mesa Verde Ranch Holdings, LLC by Warranty Deed (Otero County to Mesa Verde Ranch Holdings, LLC), January 27, 2025; Casa Y Tierra Abstract File No. 24-0589.
Lot 1D — Replat D (undeveloped Parcel K remainder)	12.813	R023588	01N4054092243431	Mesa Village Unit 1 Replat D, Lot 1D; 3550 Mesa Village Dr; Prev. Parcel ID 01-15203

Parcel	Acres (+/-)	Assessor Account	Assessor Parcel No.	Legal / Instrument Reference
Lot 7A — Replat A (commercial)	1.500	R023589	01N4054092160511	Mesa Village Unit 1 Replat A, Lot 7A; 3402 Las Palomas Rd; Prev. Parcel ID 01-15204
TR 1 — Mesa Village	6.150	R058439	01N4054092135281	Mesa Village, Tract 1; Neighborhood A30
TOTAL	**151.641 AC**	*All assessor accounts confirmed via Otero County Assessor portal, March 7, 2026. Parcels other than Tracts 1B1 and 1B2 are owned by Mesa Verde Ranch Holdings, LLC, 472 La Luz Gate Road, Alamogordo, NM 88310. Tracts 1B1 and 1B2 are owned by Military Housing Authority LLC, 124 Townsgate Plaza, Clovis NM 88101, pursuant to Warranty Deed recorded March 2, 2026, Inst. No. 202601596; Casa Y Tierra File No. 26-0006A. Tract 7F reconveyed to Mesa Verde Ranch Holdings, LLC by Warranty Deed dated January 27, 2025; Casa Y Tierra Abstract File No. 24-0589. Assessor accounts for Tracts 1B1 and 1B2 are pending split from R022829.*			

WHEREAS, a local government may undertake the powers granted by the Code within the local government's area of operation (as defined in the Code) which shall not include an area that lies within the jurisdiction of another local government unless an ordinance has been adopted by the other local government declaring a need therefor (a "Necessity Ordinance"); and

WHEREAS, the County's Proposed Redevelopment Area overlaps the City's jurisdiction, so the County may not designate the Proposed Redevelopment Area unless the City adopts a Necessity Ordinance for the Proposed Redevelopment Area; and

WHEREAS, the City desires to cooperate with the County in order to pursue the designation of the Proposed Redevelopment Area as a Metropolitan Redevelopment Area in order to afford the maximum opportunity for the rehabilitation or redevelopment of Metropolitan Redevelopment Areas to private enterprise; and

WHEREAS, the City is a necessary party related to the Metropolitan Redevelopment Plan and oversight of the Proposed Metropolitan Redevelopment Area and shall be involved in preparation of the Metropolitan Redevelopment Plan and any proposed amendments; and

WHEREAS, the County has indicated its intent, upon adoption by the City of this Necessity Ordinance, to hold a public hearing with respect to the consideration of a resolution designating of the Proposed Redevelopment Area as a Metropolitan Redevelopment Area, as contemplated in the Code, and the City intends to cooperate with the County to accomplish the same.

NOW, THEREFORE, BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF ALAMOGORDO THAT:

Section 1. Necessity of Designation by County of Proposed Redevelopment Area. The City Commission hereby declares the need for the County's proposed designation of the Proposed Redevelopment Area as a Metropolitan Redevelopment Area in order to afford the maximum

opportunity for the rehabilitation or redevelopment of Metropolitan Redevelopment Areas to private enterprise. This declaration is intended to meet the requirements of Section 3-60A-4(P) of the Code.

Section 2. City Involvement with Metropolitan Redevelopment Area and Plan. The City is a necessary party related to the development of the Mesa Village MRA and oversight of the Mesa Village MRA, and the effect of the City Commission's declaration in Section 1 hereof is conditioned upon the following:

a. The Metropolitan Redevelopment Plan will provide for the appointment of a Board of Directors to oversee the execution of the Metropolitan Redevelopment Plan. If the Board has 5 or fewer members, the City Commission shall have the power to appoint 2 members to the Board of Directors. If the Board has more than 5 members, the City Commission shall have the power to appoint 3 members to the Board of Directors; and

b. The commencement of construction (i.e. "breaking ground") of the Mesa Village development shall occur no later than December 31, 2026.

Section 3. Ordinance Irrepealable. After the designation of the Proposed Metropolitan Redevelopment Area as a Metropolitan Redevelopment Area, this Necessity Ordinance shall be and remain irrepealable until such Metropolitan Redevelopment Area is no longer treated as such under the Code. Notwithstanding anything herein to the contrary, if the conditions set forth in Section 2 above are not met, the City Commission's declaration in Section 1 shall be of no further force or effect.

Section 4. Severability Clause. If any section, paragraph, clause or provision of this Ordinance shall for any reason be held to be invalid or unenforceable, the invalidity or unenforceability of such section, paragraph, clause or provision shall not affect any of the remaining provisions of this Ordinance.

Section 5. Repealer Clause. All bylaws, orders, resolutions and ordinances, or parts thereof, inconsistent herewith are hereby repealed to the extent only of such inconsistency. This repealer shall not be construed to revive any bylaw, order, resolution or ordinance, or part thereof, heretofore repealed.

Section 6. Effective Date. Upon due adoption of this Ordinance, it shall be recorded in the book of the Governmental Unit kept for that purpose, authenticated by the signatures of the Mayor and the City Clerk of the Governmental Unit, and the title and general summary of the subject matter contained in this Ordinance (set out in Section 17 below) shall be published in a newspaper which is of general circulation in the Governmental Unit, or posted in accordance with law, and such Ordinance shall be in full force and effect thereafter, in accordance with law.

Section 7. General Summary for Publication. Pursuant to the general laws of the State, the title and a general summary of the subject matter contained in this Ordinance shall be published in substantially the following form:

(Form of Summary of Ordinance for Publication)

City of Alamogordo, New Mexico
Notice of Adoption of Ordinance

Notice is hereby given of the title and of a general summary of the subject matter contained in Ordinance No. _____ duly adopted and approved by the City Commission of the City of Alamogordo, New Mexico, on _____, 2026. A complete copy of the Ordinance is available for public inspection during the normal and regular business hours of the City Clerk, 1376 East Ninth Street, Alamogordo, New Mexico.

CITY OF ALAMOGORDO, NEW MEXICO
ORDINANCE NO. _____

DECLARING THE NEED FOR DESIGNATION BY OTERO COUNTY, NEW MEXICO BY AND THROUGH THE COUNTY'S BOARD OF COUNTY COMMISSIONERS OF REAL PROPERTY WITHIN THE COUNTY'S AREA OF OPERATION WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF ALAMOGORDO AS A METROPOLITAN REDEVELOPMENT AREA.

(End of Form of Summary for Publication)

(Signature Page Follows)

PASSED, APPROVED AND ADOPTED THIS _____ DAY OF _____, 2026.

CITY OF ALAMOGORDO, NEW MEXICO

_____
Mayor

ATTEST:

_____
City Clerk

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/08/2026 **Report No:** 11.

Submitted By: Candice Gebhardt

Subject: Consider, and act upon, Resolution No. 2026-10, authorizing the Submission of an Application to the New Mexico Department of Transportation Local Government Road Fund Municipal Arterial Program for street rehabilitation of 1st St. from U.S 54 to S White Sands Blvd, planning and design project for the FY2026-2027 Funding Cycle. Funds Match $81,250.00 (25%). *(Jimmy Vargas, Public Works Director)*
(Roll Call Vote Required)

Fiscal Impact: 25% match for NMDOT Local Road Fund - $81,250.00
Amount Budgeted: $0.00
Fund: 109.500.9003.0000.54520.

Additional Fiscal Impact:

Recommendation: Approve the Resolution

Background: It is requested by City of Alamogordo, acting by its Commission, funding in the total amount of $325,000.00 to be funded on a proportional basis as follows:

1. The New Mexico Department of Transportation shall provide seventy-five percent (75%), in an amount not to exceed $243,000.00; and;

2. The City of Alamogordo shall provide a 25 percent (25%) local match, in an amount not to exceed $81,250.00;

RESOLUTION NO. 2026-10

AUTHORIZING THE SUBMITTAL OF AN APPLICATION FOR THE 2026-2027 NEW MEXICO DEPARTMENT OF TRANSPORTATION'S (NMDOT) LOCAL GOVERNMENT ROAD FUND MUNICIPAL ARTERIAL PROGRAM

WHEREAS, the City of Alamogordo proposes to complete the planning and design for street rehabilitation of 1st St. from U.S 54 to South White Sands Boulevard within the control of the City of Alamogordo in Otero County, New Mexico; and

WHEREAS, the proposed planning and design for 1st St. was identified as a priority due to the need to improve pavement conditions, stormwater drainage structures, improve ride quality, and provide pedestrian safety features. The 350-foot segment between the existing railroad crossing and White Sands Boulevard, 1st St. transitions to nearly 70 feet in width, with minimal signage or pavement striping to guide traffic safely.

WHEREAS, an evaluation of the corridor has determined that the underlying utilities and subsurface infrastructure are in adequate condition and do not require replacement at this time; and,

WHEREAS, the City of Alamogordo, acting through its governing body, hereby requests funding in the total amount of $325,000.00 to be funded on a proportional basis as follows:

a) The New Mexico Department of Transportation shall provide seventy-five percent (75%), in an amount not to exceed $243,000.00; and;

b) The City of Alamogordo shall provide a 25 percent (25%) local match, in an amount not to exceed $81,250.00; and

WHEREAS, the City of Alamogordo hereby assures and certifies that it shall comply with all applicable regulations, policies, guidelines, funding match requirements, and any other conditions associated with the acceptance and administration of New Mexico Department of Transportation (NMDOT) Transportation Project Funds; and

WHEREAS, the New Mexico Department of Transportation requests as part of the application procedure the passage and submittal of a local government resolution of support for the project;

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BODY OF THE CITY OF ALAMOGORDO THAT, The City hereby authorizes and supports the submission of an application to the New Mexico Department of Transportation for the 1st. St. rehabilitation planning and design under the FY26 funding cycle, in accordance with all applicable program requirements.

PASSED, APPROVED AND ADOPTED this _____ day of

_____, 2026.

CITY OF ALAMOGORDO, NEW MEXICO

a New Mexico municipal corporation

By: _____

Sharon McDonald, Mayor

ATTEST:

_____

Rachel Hughs, City Clerk

APPROVED AS TO FORM:

_____

Darrell Mori, City Attorney

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** 04/09/2026 **Report No:** 12.

Submitted By: Beau Dylan Aleshire

Subject: Appointments to Boards and Committees. *(Sharon McDonald, Mayor)*

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation: Staff recommends one appointment to the Airport Advisory Board, and one appointment to the Alamogordo Public Library Board.

Background:

Airport Advisory Board

- One upcoming vacancy for an applicant who lives in either the County or City limits due to the expiring term of Erich Wuersching on May 28, 2026. A new application by Erich Wuersching was received. If reappointed, this would be his 7th term on the board.

Airport Zoning Board

- One current vacancy for an applicant who lives within the City limits.

Alamogordo Public Library Board

- One upcoming vacancy for an applicant who lives in the City due to the expiring term of Rhonda Alterson on May 28, 2026. A new application by Rhonda Alterson has been received. If reappointed, this would be her 3rd term on the board.
- One current vacancy for a County-appointed representative.

Senior Volunteer Programs Advisory Council

- Five current vacancies for applicants who live within the City limits.

City of ALAMOGORDO

RECEIVED
APR 02 2026
CITY CLERK

Application To Serve On A City Board/Committee

Name: Erich Wuersching

Phone: 817 832 7071

Email Address: erich@sugarpinesrvpark.com

Physical Address: 508 Chuckwalla Canyon Blvd

Is the above address within City limits? Yes ____ **No** X

Mailing Address: P.O. Box 925

Present Employer: Wolf Creek Federal Services **Job Title:** Emergency Mgr

Board/Committee you wish to serve on:

First choice: Airport Board

Are you related to anyone who is presently employed by the City of Alamogordo?

Yes ☐ No ☒ If so, what is their relation to you? _____

Are you related to any Elected Official of the City of Alamogordo?

Yes ☐ No ☒ If so, what is their relation to you? _____

Experience and education relating to the Board/Committee: 12+ years experience on the board.

Please indicate your interest in serving on a City Board/ Committee: Representing Cloudcroft and the mountain areas, to maintain the wildfire air tanker base capability and also bring in Regional Jet service.

Please return completed application to:

City Clerk's Office
1376 E. Ninth Street
Alamogordo, NM 88310
PHONE: (575) 439-4100
FAX: (575) 439-4396
EMAIL: daleshire@ci.alamogordo.nm.us

City of
ALAMOGORDO

RECEIVED
MAR 26 2026
CITY CLERK

Application To Serve On A City Board/Committee

Name: Rhonda Alterson

Phone: 1(847)477-4245

Email Address: ralterson@gmail.com

Physical Address: 1509 Rockwood Alamogordo, NM 88310

Is the above address within City limits? Yes X **No** _____

Mailing Address: 1509 Rockwood Alamogordo, NM 88310

Present Employer: Retired **Job Title:** _____

Board/Committee you wish to serve on:

First choice: Library

Are you related to anyone who is presently employed by the City of Alamogordo?

Yes ☐ No ■ If so, what is their relation to you? _____

Are you related to any Elected Official of the City of Alamogordo?

Yes ☐ No ■ If so, what is their relation to you? _____

Experience and education relating to the Board/Committee:

I am a retired RN with a Master's in Education and have lived 20 years in Alamogordo. I am interested in serving on a City Board/Committee to contribute experience and support the community.

Please indicate your interest in serving on a City Board/ Committee:

I am interested in serving on the Library Board because I believe libraries are vital to a strong community I would contribute my experience, listen to community needs, and support maintaining an accessible, welcoming resource for all residents.

Please return completed application to:

City Clerk's Office
1376 E. Ninth Street
Alamogordo, NM 88310
PHONE: (575) 439-4100
FAX: (575) 439-4396
EMAIL: daleshire@ci.alamogordo.nm.us

AGENDA REPORT

CITY OF ALAMOGORDO
CITY COMMISSION

Meeting Date: 4/14/2026 **Report Date:** **Report No:** 13.

Submitted By: Sharon McDonald

Subject: Adjourn into Executive Closed Session in compliance with 10-15-1(H)(2) NMSA 1978 (as amended) to discuss: Limited Personnel Matters (Discussion regarding the conduct of an employee in a supervisory/operational role within the Parks Department and related management oversight by the City Manager) and 10-15-1(H)(8) NMSA 1978 (as amended) to discuss: Real property known as the Fairgrounds Parking Lot, located at the corner of White Sands Blvd and Fairgrounds Rd **(Roll Call Vote Required)**

Fiscal Impact:
Amount Budgeted:
Fund:

Additional Fiscal Impact:

Recommendation:

Background: