



**REGULAR MEETING
OF THE VINEYARD PLANNING COMMISSION,
Wednesday May 3, 2023, 6:00 p.m.**

PUBLIC NOTICE is hereby given that the Vineyard City Planning Commission will hold a regularly scheduled meeting at City Hall, 125 South Main Street, Vineyard, Utah. You can also view the meeting on our [live stream channel](#).

REGULAR SESSION

CALL TO ORDER

1. INVOCATION/INSPIRATIONAL THOUGHTS/PLEDGE OF ALLEGIANCE

2. OPEN SESSION - Time dedicated for public comment. Comments will be limited to three (3) minutes. No actions may be taken by the Planning Commission due to the need for proper public noticing.

3. BUSINESS ITEMS

3.1 Site Plan – Central Utah Water Conservancy District (CUWCD) Water Polishing Plant

CUWCD is seeking approval of a site plan amendment for a Groundwater Polishing Plant at 45 W 1600 N in the industrial zone. This main use of this site is for drinking water and the proposed amendment expands on the existing use. The Planning Commission will take appropriate action.

4. WORK SESSION

4.1 There are no work sessions scheduled.

5. TRAINING SESSION

5.1 The Planning Commission will watch and discuss a video training on urban planning principles.

6. COMMISSION MEMBERS' REPORTS AND EX PARTE DISCUSSION DISCLOSURE

7. ADJOURNMENT

The Public is invited to participate in all Planning Commission meetings. In compliance with the Americans with Disabilities Act, individuals needing special accommodations during this public meeting should notify Rachel Stevens, Planning Technician, at least 24 hours prior to the meeting by calling (801) 226-1929 or email at rachels@vineyardutah.org.

The foregoing notice and agenda were posted on the Utah Public Notice Website and Vineyard Website, posted at the Vineyard City Offices and City Hall, delivered electronically to city staff and each member of the Planning Commission.

AGENDA NOTICING COMPLETED ON: May 2, 2023

NOTICED BY: /s/ Rachel Stevens

Rachel Stevens, Planner

Community Development

Date: Wednesday, May 03, 2023
From: Briam Amaya Perez, Senior Planner
To: Planning Commission
Item: Central Utah Water Conservancy District (CUWCD) Water Polishing Plant
Permit: PLAN23-004 (CityInspect, Development Module)
Address: 45 W 1600 N, Vineyard, Utah, 84059
Parcel No: 38:431:0006
Applicant: Caitlyn Mayfield
Owner(s): CUWCD



ANALYSIS

The applicant, Caitlyn Mayfield, with Central Utah Water Conservancy District (CUWCD), is seeking approval of a site plan amendment for a Groundwater Polishing Plant in Vineyard's industrial area. The original site plan and conditional use permit for this site was approved on May 20, 2015, in a public hearing before the Planning Commission. The project net site area is 8.41 acres. CUWCD owns and operates several wells located within Vineyard City. At present, eight (8) high head wells (Wells 8-15) have been drilled and developed within the wellfield. Wells 11-13 are high-producing wells with exception water quality. Wells 8-10 and 14-15 are relatively high-producing wells but contain higher concentrations of manganese. Although the water from all these wells meets or exceeds primary and secondary drinking water standards, oxidation of naturally occurring manganese in the groundwater produces discoloration of and precipitants in the water when disinfection chlorine is added, which could result in consumer complaints. For this reason, there is a need for a polishing facility. Groundwater

polishing will occur at this central location. The project will include chlorination facilities, pressure filters, solids handling facilities and yard piping. This facility will be one of the largest facilities of its kind in the country. It is anticipated that construction will take place from Spring 2023 to Spring 2025. The project will be maintained based on standard operations and maintenance procedures for all equipment and facilities. This facility is necessary to meet customer demands in the coming years. The main use of the site currently is a drinking water facility (public facility). This project expands on the existing use. The architecture and site design concepts have been chosen to match the existing buildings on site. The colors and styles can be seen in the rendering documents. The site is completely enclosed by a concrete perimeter wall that was approved with the original site plan. The site can only be accessed by CUWCD employees. No public access shall be granted. The facility may operate 24/7 during parts of the year but will only be staffed from 8 AM – 4:30 PM on weekdays. The anticipated number of employees is up to 10.

STAFF RECOMMENDATION

Staff recommends approval of the site plan, provided the following conditions are met.

CONDITIONS

1. The applicant pays any outstanding fees and makes any redline corrections.
2. The applicant is subject to all federal, state, and local laws.
3. All staff comments included in the *CityInspect* review portal (PLAN23-004, *Development Module*) shall be considered conditions of approval.
4. The applicant must appropriately landscape all site entrances per the VZC, including the northwest site entrance.
5. Any metals employed on building facades and exteriors must have a matte finish to avoid an increased visual impact.
6. The applicant shall observe the City's nuisance ordinance found within the Municipal Code (see 8.08 'Nuisances').
7. Light poles shall not exceed a height of 20'.
8. No signage is approved through this permit. All individual building, exterior wall, and monument signage shall be reviewed through a separate permit.
9. Areas for future outdoor storage of material and equipment must be covered with decomposed granite to provide a dust free surface.
10. 5% of the gross parking surface area shall be of dispersed interior landscaping so as to reduce the "heat island effect" and to enhance the aesthetic of the parking area.

PROPOSED MOTION

"I move to approve the site plan as requested by Caitlyn Mayfield, with CUWCD, with the proposed conditions...."

ATTACHMENTS

Scope of Work

Overall Site Plan

Zoning Plan

Vehicular Circulation Pattern
 Landscaping Area Calculation
 Landscape Plan
 Renderings and Exterior Elevations
 Ground Surface Materials
 Signage and Fencing Plan
 Detention Pond Specifications
 Photometric Plan

Analysis	
Zoning	Manufacturing (M) District
Use	Utility, Major Public Facility (Permitted)
Site Area	366,158.89 SF (8.41 AC)
Building Square Footage	63,980 SF (5 New Buildings Added to Existing Site)
Maximum Building Height	Allowed: 60' Actual: 48'2" (Backwash Waste Equalization Basin)
Minimum Front Yard	Required: 25' Actual: In Compliance
Minimum Rear Yard	Required: 25' Actual: 43'5"
Minimum Side Yard for Interior Lots	Required: NA Actual: NA
Minimum Side Yard for Corner Lots	Required: NA Actual: NA
Maximum Building Lot Coverage	Required: NA Actual: NA
Minimum Open Space (OS)	Required: 5% Actual: 5.8 % or 21,320 SF, see Landscaping Area Calculation; [13,890 SF (Existing) + 7,430 SF (Proposed)] **The existing northeast site entrance landscaping (1,400 SF) does not count toward this calculation as this landscaped area will be relocated.
Parking Stalls	Required: 11 1 space per use. *each "use" is every structure or facility intended to have a work area where at least one (1) employee will be performing work. There are currently 11 public facilities used on site. Actual: 19 stalls
ADA Parking Stalls	Minimum Required: 1 (1 ADA; 1 ADA Van Accessible) Actual: 1 ADA; 1 ADA Van Accessible
Bicycle Parking	Required: 3 Actual: Applicant shall provide 3 bike parking spaces

VZC 15.36 Site Planning and Building Design Requirements			
Category	Standard	Staff Comments	Compliance
15.36.030.1 Subdivision and Project Features	All subdivisions and other projects shall include subdivision and project features that add visual interest and attractiveness to the subdivision or project area and the City. Such features may include subdivision and project entry features, public art pieces, streetscape designs, and biking facilities and trails, consistency in design features, protection of sensitive lands features including drainage ways and wetlands areas, and <i>useable</i> parks and open spaces.	The applicant has requested that their entrance signage count as their visual interest piece.	☐ Yes ☐ No ☒ N/A
15.36.030.1.a Building Design	The City encourages creative and varied architectural forms reflecting its historic rural character. The goal is that all man-made structures blend harmoniously with the natural environment.	The architecture of the proposed buildings features concrete, aluminum, galvanized steel, and other metals, which are consistent with the surrounding community and appropriate for a manufacturing district.	☒ Yes ☐ No ☐ N/A
15.36.030.1.a.i View Protection	Care shall be taken to control the proportion and massing of buildings to minimize the obstruction of all views. Vertical design elements exaggerating building height and dominate rooflines shall be avoided.	In compliance.	☒ Yes ☐ No ☐ N/A
15.36.030.1.a.ii Building massing	In order to maximize the integration of all man-made structures and features with the natural environment and to minimize undesirable distractions, all Land Use Applications shall incorporate techniques for reducing the apparent size and bulk of proposed buildings and structures	The applicant has kept the buildings within the acceptable height maximum. In addition, monotonous facades have been avoided through recessing and projecting elements and facades.	☒ Yes ☐ No ☐ N/A

15.36.030.1.a.ii.1 Coherent building design	All sides of a building may have a visual or other impact and shall be coherently designed and treated. A façade not related to the rest of the building shall be avoided. A consistent level of detail and finish on all sides of a building shall be provided.	In compliance. Each building features four-sided architecture (consistent level of detail and finish on all sides).	☒ Yes ☐ No ☐ N/A
15.36.030.1.a.ii.2	Continuous building wall surfaces shall be relieved with variations of wall planes or overhangs that create shadow areas and add visual interest.	In compliance. The proposed buildings feature recessed and projected elements, balanced vertical and horizontal elements, overhangs, variations in materiality, etc.	☒ Yes ☐ No ☐ N/A
15.36.030.1.a.iii Reduced roof mass	The roof of a building is often the single greatest contributor to its mass and most obvious obstacle to the views from adjacent properties. Visual impact is minimized when the roof is very shallow pitch, or a hip roof formation (sloping from the sides as well as the front and back) rather than a gabled formation (sloping from the front and back only)	The applicant has provided variations in rooflines and shallow pitches on the proposed buildings.	☒ Yes ☐ No ☐ N/A
15.36.030.1.a.iv Varying Roofline	Variation in the roofline is an effective means of harmonizing buildings with their surroundings by blending its line and form.	In compliance. See comments above.	☒ Yes ☐ No ☐ N/A
15.36.030.1.a.v Architectural details	Surface details, ornaments, and other building elements that enrich the character of a building are encouraged. Attention to detail, including all building and architectural design elements shall be required. The following architectural details are desirable and encouraged: <ul style="list-style-type: none"> - Stonework - Exposed beams and columns 	The architecture of the buildings features light fixtures, awnings, translucent wall and roof panels, luminaires, and other elements that enrich the character of the building and provide distinction.	☒ Yes ☐ No ☐ N/A

	<ul style="list-style-type: none"> - Cornices, moldings, bands, pop-outs, decorative vents, cast or sculpted features - Covered entries, patios, walkways, breezeways, bays, and balconies - Enclosed courtyards and patios, trellises, landscape areas and wide roof overhangs - Accessories such as art features, benches, pots, lamps, artwork, and sculptures. 		
15.36.030.2. Building Additions	Proposed additions to existing buildings shall incorporate the predominant architectural features, materials, and colors of the existing building	Not applicable.	☐ Yes ☐ No ☒ N/A
15.36.030.3 Accessory Buildings and Structures	Materials used for all accessory buildings, structures and fences shall be compatible with the building materials and colors of the primary structure.	Not applicable.	☐ Yes ☐ No ☒ N/A
15.36.030.4 Mechanical Equipment	Air conditioning units, generators and other auxiliary mechanical and building equipment shall be placed at locations where they will be least intrusive in terms of noise, appearance, and odors, particularly for adjacent properties and public rights-of-way. Screening walls, landscaping, and other screening treatments shall be used so all required mechanical equipment is screened from public streets and adjoining properties. All building-mounted mechanical or	All mechanical equipment is concealed behind the various buildings on the site. In addition, the site is enclosed by a 6 FT perimeter wall that restricts public view.	☒ Yes ☐ No ☐ N/A

	communications equipment shall be a color to make it as unobtrusive as possible. If located on or adjacent to a building wall, the color of all mechanical and communications equipment shall blend with the color and design details of all the buildings.		
15.36.030.5.a. Building Location	All site plans shall demonstrate design sensitivity to adjoining structures. New buildings shall not overpower existing buildings. Attention to building height, rooflines, and grade changes will help provide continuity with adjacent and neighboring buildings.	There are currently six (6) existing buildings on site: two (2) wells, a chlorination facility, a controls facility, and a turnout vault. The newly proposed buildings do not overpower the existing buildings and have been designed to appear and function consistently with the existing buildings.	☒ Yes ☐ No ☐ N/A
15.36.030.5.b Building Location	All project and building plans shall provide for the integration of the existing, or planned, pedestrian and vehicular circulation patterns, protect views, and be harmonious with the adjacent building designs, styles, and size.	<p>There will be minimal private vehicular circulation on site and minimal employee vehicular circulation on site. A designated and painted crosswalk shall be installed between the Controls Facility (090) and the Groundwater Polishing Facility (100).</p> <p>The existing northeast vehicular ingress/egress connection from 1600 N onto the site shall be relocated further into the interior of the site.</p> <p>Pedestrian and bicycle facilities from 1600 N onto the site shall be determined by the City in conjunction with the developer, Vineyard Properties of Utah LLC, who have partnered to expand 1600 N westward towards Utah Lake. Plans for the 1600 N extension shall</p>	☒ Yes ☐ No ☐ N/A

		be brought forward to the Planning Commission at a future point in time.	
15.36.030.5.c Building Location	All project and building plans shall allow for, and provide interconnected streets, walkways, trails, and parking areas, as applicable	In compliance.	☒ Yes ☐ No ☐ N/A
15.36.030.5.d Building Location	All buildings shall have an orientation to the street to encourage a pedestrian relationship. Building placement shall allow interconnected walkways and shared site accesses, as applicable, for increased convenience, accessibility, and enhanced safety for pedestrians.	Not applicable to this project as this is a public facility that is enclosed by a 6 FT perimeter wall.	☐ Yes ☐ No ☒ N/A
15.36.030.6 Pedestrian Scale	Regardless of overall building size, elements and facades at the pedestrian level shall achieve a sense of human scale and create visual interest at eye level.	In compliance.	☒ Yes ☐ No ☐ N/A
15.36.030.7 Building Materials and Textures	Exterior building materials shall be similar to and compatible with those found in a rural setting. Restraint should be used in the number of different exterior building materials selected. Masonry, wood siding, board and batten, lap siding and exposed wood structural members are encouraged in natural colors or earth tone finishes.	In compliance. Please see 'Architectural Details' and 'Building Design'.	☒ Yes ☐ No ☐ N/A
15.36.030.8.a Building Material Color	All building materials and colors shall minimize the impact of buildings on the natural setting. All exterior buildings colors shall be subdued earth tones and muted colors that blend and do not contrast with naturally occurring colors.	In compliance. The applicant has proposed a range of earthtone colors including beige, brown, and grey.	☒ Yes ☐ No ☐ N/A

	Retaining walls, wall extensions from buildings, and all walls and fences shall be the same or compatible color and materials, as the main buildings.		
15.36.030.8.a Building Finishes	High gloss paints, factory finished metals or other materials which increase visual impacts, and aluminum, white or reflective roofs are prohibited. Matte finishes are recommended. Chimneys, flues, vents, gutters, down, spout, mechanical and electrical equipment, railings, window shading devices shall be similar in intensity of color to surrounding surfaces of the building, unless they are a special building design feature. In such cases, a subdued accent color may be acceptable. Bright, glossy, fluorescent color schemes and mirrored or other highly reflective glass is strongly discouraged.	In compliance. All metals employed on building exteriors must have a matte finish to avoid an increased visual impact.	☒ Yes ☐ No ☐ N/A
15.36.030.9 Subdivision and Site Design and Layout	All subdivision and site plans shall recognize and preserve, as much as practicable, the natural features and sensitive areas occurring on the site. All subdivisions and other projects shall demonstrate efficiencies in the provision of infrastructure, including reductions in hard-surfaced areas, land disturbance, and the retention of existing vegetation, as practicable	Not applicable.	☐ Yes ☐ No ☒ N/A
15.36.030.9.a.i.	All buildings and structures shall be arranged to preserve and provide open space and to protect views . The locations of all buildings and structures shall recognize the	With no buildings being proposed over 49 FT in height, all views remain protected. The arrangement of the buildings allows for 5.8% or 21,320 SF of the site	☒ Yes ☐ No ☐ N/A

	existing topography and natural features of the site. All natural features shall be preserved, as practical, and integrated into the subdivision or site plan design.	area to operate as open space.	
15.36.030.9.a.ii.	Provide an interconnected system of open space areas. The locations of all buildings and structures shall allow and provide areas of open space and landscaping to connect with similar open spaces and landscaping areas existing or planned to be located on adjacent properties.	This site plan exceeds the required amount of open space for its respective zoning district, but the open spaces do not function through an interconnected system. An interconnected system of open spaces may not be appropriate for a public facility land use.	☒ Yes ☐ No ☐ N/A
15.36.030.10 Site Access	The location and number of access points to the site, the interior circulation pattern , and the separation between pedestrians and vehicles shall be designed to maximize safety and convenience , and should be harmonious with proposed and neighboring buildings.	The applicant has reduced the number of public entry points to the site as this is a public facilities site. The applicant has provided facilities to accommodate vehicular circulation and in locations where the applicant anticipates interaction between vehicles and pedestrians, demarcated crosswalks have been provided.	☒ Yes ☐ No ☐ N/A
15.36.030.11 Noise Impact	Subdivision and site design shall include provisions for limiting noise, particularly to adjacent property. The occupants of a development should be protected from noise from both outside and within the site through screening, setbacks, and building materials. Noise generating uses and equipment shall be located and buffered to minimize site and off-site impacts.	The applicant has stated that they do not believe that the uses housed within the perimeter of the site shall cause visual, auditory, or olfactory impacts to the surrounding parcels or community. The applicant has observed the required setbacks and shall house most activities related to water polishing within the proposed buildings. The applicant shall observe the City's nuisance ordinance found within the Municipal Code (see 8.08 'Nuisances').	☒ Yes ☐ No ☐ N/A

15.36.030.12 Views	Due to the community quality and character created by the surrounding scenic beauty, it is essential that the City and all subdivision and site plan designs preserve general access to significant views. These views include Mount Timpanogos, Provo Canyon, West Mountain, and Utah Lake	All buildings are well below the maximum permitted height (60').	☒ Yes ☐ No ☐ N/A
15.36.030.13 Landscaping Design Standards	Landscape improvements shall be an integral element of all subdivision and site plan designs. Landscaping shall complement the architecture of all proposed buildings and structures and provide visual interest and variety, provide screening elements, provide year-round site beautification, blend with the natural landscape and highlight building design features.	The plants selected are xeric and require low to moderate irrigation. This selection also offers visual interest, site beautification, and variety.	☒ Yes ☐ No ☐ N/A
15.36.030.13.a Landscape Buffers	Landscape buffers between dissimilar or conflicting land uses shall be provided. Landscape buffers shall be provided for off-street parking and service areas and these areas shall be screened from public streets.	NA. The land uses adjacent to this site are not conflicting.	☐ Yes ☐ No ☒ N/A
15.36.030.13.b Transitional Landscaped Areas	Where new development adjoins areas of natural open space, a soft transitional edge shall be provided to create a gradual transition between the natural open space area and the new development.	NA. There are no areas of naturally occurring open space on this site.	☐ Yes ☐ No ☒ N/A
15.36.030.13.c Landscape Materials	All proposed plantings and site materials should be consistent with (but not uniform) and of a similar scale with existing natural neighboring landscape, and adjacent streetscape areas	The applicant has proposed xeric landscaping. The applicant is also incorporating inorganic materials such as gravel and rock boulders of various sizes.	☒ Yes ☐ No ☐ N/A

	where appropriate. Drought tolerant “xeriscape” landscaping is encouraged. Landscaping improvements may also include berms, contouring, rocks, and boulders.		
15.36.030.13.d Plant Size, Spacing, and Scale	The size and spacing of landscape elements shall be consistent and establish a coordinate relationship to any existing or proposed streetscape plantings. The size and space of landscape elements shall also be of appropriate scale and character to all proposed buildings, structures, and features.	In compliance.	☒ Yes ☐ No ☐ N/A
15.36.030.13.e Streetscape Landscape Treatments	All streetscapes shall create an attractive public space design and include street tree plantings, landscaping and other treatments and improvements, including consistency in street lighting, pedestrian lighting, public art and pedestrian and biking facilities and street furniture.	As previously mentioned, the extension of 1600 N shall be coordinated between the landowner, Vineyard Properties of Utah LLC, and Vineyard City. This future design shall address street lighting, pedestrian facilities, biking facilities, etc.	☒ Yes ☐ No ☐ N/A
15.36.030.14 Wall, Fences, and Other Visual Barriers	Walls, fences, and barriers located adjacent to all public rights-of-way shall be constructed of long-lasting durable materials. Walls, fences, and barriers that create a continuous surface greater than 30 feet in length shall be softened visually with acceptable landscaping or other treatments. Berms, boulders, and vegetation masking are effective substitutes for walls and fences. Walls, fences, and barriers located to separate individual lots should be constructed of materials that	The perimeter wall was approved with the original site plan for this area.	☒ Yes ☐ No ☐ N/A

	are compatible with the residence.		
15.36.030.15 Non-vegetative Ground Cover	Non-vegetative ground cover treatments may include rocks and small stones, granite, and bark. Areas of non-vegetative ground cover materials shall be broken and interspersed with plant materials.	Groundcover includes: <ol style="list-style-type: none"> 1. Lakeside gravel & travertine marble boulders 2. Royal gravel and royal boulders 3. South Town cobble and roman boulders 	☒ Yes ☐ No ☐ N/A
15.36.030.16 Landscape Maintenance	All landscape plans shall demonstrate that long-term maintenance factors have been considered in the landscape design. For example, irrigation systems shall be designed to achieve low maintenance and efficient water consumption.	In compliance. See irrigation plan sheets.	☒ Yes ☐ No ☐ N/A
15.36.030.17 Site Light Standards	To protect views of the night sky, all outside lighting shall be “down lighting” so that lighting does not trespass to adjoining properties. All exterior lighting shall be shielded or hooded so that no light is allowed to spill or trespass onto adjacent properties.	In compliance. All proposed lighting is shielded and hooded.	☒ Yes ☐ No ☐ N/A
15.36.030.17. a.	Warming lighting colors are encouraged. Blue-white colors or fluorescent and mercury vapor lamps are prohibited.	In compliance.	☒ Yes ☐ No ☐ N/A
15.36.030.17. b.	All exterior lighting should be reduced to the minimum levels necessary for safety and security purposes. The use of motion sensors and timers is encouraged.	In compliance.	☒ Yes ☐ No ☐ N/A
15.36.030.17. c. Parking Lot Lighting	Minimum adequate lighting should be provided in all parking areas, with emphasis placed on appropriate lighting at entrances and	All parking areas shall receive adequate lighting. See photometric plan. Light poles shall not exceed 20’ in height.	☒ Yes ☐ No ☐ N/A

	exits. All parking area lighting shall be integrated with landscape features. The height of pole-mounted fixtures shall be held to a minimum practical height, but not exceeding twenty (20) feet.				
17.36.030.18.a. Project, Site and Building Sign Standards	The placement and design of all allowed signs shall be found to be compatible with the development project and with the surrounding area. Signs shall be provided as an integral site and building design element and shall be compatible with the style of the buildings in terms of location, scale, color, and lettering style.	All signage shall be reviewed through a separate permit. In compliance.	☒ Yes ☐ No ☐ N/A		
17.36.030.18.b	Signs should be located so they comply, at a minimum, with the clear view requirements, as provided herein	In compliance.	☒ Yes ☐ No ☐ N/A		
17.36.030.c	All sign materials shall be compatible with building materials and colors. The illumination of all signs shall be accomplished in a manner that focuses light on the sign and fully shields the light source.	In compliance.	☒ Yes ☐ No ☐ N/A		
VZC Chapter 15.38 Parking and Loading Requirements					
Category	Standard			Staff Comments	Compliance
15.38.030.1.e Parking Stall Dimensions	Type	Width	Length	In compliance.	☒ Yes ☐ No ☐ N/A
	Standard	9 ft	20 ft		
	Parallel	8 ft	24 ft		
	The front of the parking space may overhang 2 feet into a landscape strip or pedestrian walkway, however, any parking spaces protruding over a pedestrian walkway shall maintain at least a 4 foot wide clearance for pedestrian access (a total				

	of 6 feet from the curb face to the opposite edge of the walkway).				
15.38.030.1.f. Parking Aisle Dimensions	Angle	1way Aisle	2way Aisle	In compliance.	☒ Yes ☐ No ☐ N/A
	90 deg.	24 ft	24 ft		
	60 deg.	18 ft	22 ft		
	45 deg.	18 ft	20 ft		
	30 deg.	18 ft	20 ft		
15.38.030.1.g. Parking Lots	Parking lots shall be designed in groupings no larger than 200 spaces. Larger lots shall be divided by buildings, plazas, or significant landscaped areas oriented for pedestrian use.			In compliance. Only 13 new parking stalls have been proposed. The site shall continue 19 total stalls.	☒ Yes ☐ No ☐ N/A
15.38.030.1.h. Within Structures	The off-street parking requirements may be furnished by providing spaces designed within the principle building or a parking structure. However, no building permit shall be used to convert said parking structures into a dwelling unit, living area, or other activity until other adequate provisions are made to comply with the required off-street provisions of this Section			Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.1.i. Circulation Between Bays.	Parking areas shall be designed so that circulation between parking bays occur within the designated parking lot and does not depend upon a public street or alley. Parking area designs which require backing into a public street are prohibited except for one, two, or three-family dwellings.			In compliance. A 42' drive aisle has been proposed that facilitates the movement of small and large vehicles.	☒ Yes ☐ No ☐ N/A
15.38.030.1.j. Surfacing	All areas intended to be utilized for parking space, access aisles, and driveways shall be paved with concrete			The parking lot shall be paved with asphalt concrete.	☒ Yes ☐ No ☐ N/A

	or asphalt to control dust and drainage. Areas for outdoor storage of material and equipment may be covered with decomposed granite to provide a dust free surface. Such area shall not be considered as part of a required landscape area.		
15.38.030.1.k. Striping	Except for one, two, and three-family dwellings, all parking stalls shall be marked with painted lines not less than 4" wide	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.l. Lighting	Parking lots used during hours of darkness shall be illuminated. Any lighting used to illuminate an off-street parking area shall be so arranged as to reflect the light down and/or away from adjoining property, abutting residential uses and public rights-of-way and shall be a maximum of 20 feet in height above the surface parking for non-residential uses and 16 feet for residential uses.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.m. Protruding Vehicles	All on-site parking stalls shall be designed and constructed so that parked vehicles shall not protrude over a property line.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.n. Screening	All off-street parking lots of 4 or more spaces shall be screened from the street view and adjacent residential districts by a landscaped berm, decorative wall, vertical landscaping, or combination there-of at 3 feet high, as measured at finished grade adjacent to the parking area to be screened. All walls or berms shall be installed a minimum of 2.5 feet back from the edge of the parking stall.	The parking lots are screened from the public ROW by a 6 FT perimeter wall.	☒ Yes ☐ No ☐ N/A

15.38.030.1.o.i. Parking Area Landscaping	<p>5% of the gross parking surface area shall be of disperse interior landscaping, designed so as to reduce the “heat island” effect and to enhance the aesthetics of a parking area. A development with single drive aisle between a building and property boundary may include the required landscaping on the perimeter of the drive aisle toward this requirement. Acceptable interior landscaping designs:</p> <ol style="list-style-type: none"> 1) 5’ by 5’ tree diamonds placed not more than 6 parking spaces apart and located at the intersection of parking stalls. Tree diamonds shall be used only with 90 degree parking spaces. 2) Min. 5’ wide landscape medians with trees planted 40 feet apart 3) Min. 5’ wide landscape islands and peninsulas with at least 1 tree 4) Other similar designs that disperse landscaping throughout a parking area, to be determined by the Planning Commission. 	No dispersed interior landscaping has been provided. The Planning Commission may determine if this is necessary for a public utility facility.	☐ Yes ☒ No ☐ N/A
15.38.030.1.o.ii.	Parking areas should be buffered from adjacent residential property and screened from streets, so automobiles are not visible below the average headlight	All parking areas are screened by a 6 FT perimeter wall.	☒ Yes ☐ No ☐ N/A

	height. Screen methods may include landscaped berms, low walls, and hedges		
15.38.030.1.o.iii.	Access drives, internal circulation drives, parking area, and pedestrian walkways shall be designed to provide safety and convenience for both motorists and pedestrians and to ensure access for the physically disabled. Areas where pedestrian walkways cross driveways shall be constructed of stamped and/or raised concrete, or of other material and design so as to differentiate the area as a pedestrian/vehicle interface.	The locations for potential conflicts between pedestrians and moving vehicles have been clearly distinguished and demarcated using a painted crosswalk.	☒ Yes ☐ No ☐ N/A
15.38.030.1.o.iv.	In projects greater than 1 acre, every parking space should be no greater than 150 feet from a walkway leading to a building entrance.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.o.v.	Joint use of parking is encouraged in order to reduce trips. Access to, and the location of, new parking areas should relate to adopted area plans, planned parking area, or to existing area parking schemes. The Planning Commission may increase or reduce the minimum required number of parking spaces required based on city approved parking studies.	NA	☐ Yes ☐ No ☒ N/A
15.38.030.1.o.vi.	The number of curb cuts (street accesses) should be minimized, and pedestrian access enhanced.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.o.vii.	Site lighting should be aesthetically attractive, of pedestrian scale, and provide	In compliance.	☒ Yes ☐ No

	pedestrians with a sense of security.		☐ N/A
15.38.030.1.o.viii.	All sites shall meet the requirements of the Americans with Disabilities Act ("ADA")	The applicant has provided one (1) ADA stall and one (1) Van Accessible ADA stall.	☒ Yes ☐ No ☐ N/A
15.38.030.1.o.ix.	Parking lot design shall consider development on adjacent sites. The City may require cross access connections/easements to improve traffic circulation and to enhance public safety.	Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.1.o.x.	Traffic circulation patterns should direct commercial traffic onto arterial streets and not local/neighborhood streets. Multiple family residential traffic should be directed onto collector streets. The City may deny access onto a local/residential street if access to a collector or arterial street is available.	All traffic shall be directed on and off 1600 N.	☒ Yes ☐ No ☐ N/A
15.38.030.1.o.xi.	A site plan shall be designed to separate pedestrian and vehicular traffic to the extent possible.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.p.i. Maintenance	It shall be the joint and separate responsibility of the owner and/or lessee of the principal use, uses or building to maintain in a neat and adequate manner, the parking space, access ways, striping, landscaping, and required fences or screening.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.p.ii. Maintenance	Shrubs within a landscape island shall be maintained to a maximum height of 3 feet and all trees at maturity within such planters shall maintain a minimum clearance of 6 feet from the	Currently, there are no landscape islands on the site.	☐ Yes ☒ No ☐ N/A

	lowest branch to the adjacent grade elevation.		
15.38.030.1.q. Use of Required Parking Areas for Parking Only	Required off-street parking spaces in any district shall not be utilized for open storage, sale or rental of goods, or storage of inoperable vehicles, except when permitted as a Temporary Use.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.r. Signs	No sign shall be located as to restrict the sight lines and orderly operation and traffic movement within any parking area.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.030.1.s.i. Parking Canopies, Non-Residential and Multi-Family Residential Land Uses	Covered parking canopies may be located within the required side and rear building setbacks provided the structure drains onto the property on which it is located.	Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.1.s.ii	Covered parking canopies may encroach into required side and rear building setbacks but may not encroach into required landscaped buffers.		
15.38.030.1.s.iii.	Height of such structures shall be limited to 10 feet		
15.38030.1.s.iv.	All canopies shall include a fascia		
15.38.030.1.s.v.	Setbacks are measured from property line to nearest edge of canopy.		
15.38.030.1.s.vi.	All required landscaping, parking or otherwise, shall be provided.		
15.38.030.2.c. Off-street Parking Requirements Non-residential uses.	Medical Offices and Clinics: 1 space per 200 SF of floor area.	Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.2.d.i. Mixed Uses	In the case of horizontal mixed-use occupancies in a building or on a lot, the total requirement for off-street parking shall be the sum of	Not applicable.	☐ Yes ☐ No ☒ N/A

	the requirements for the various uses computed separately.		
15.38.030.2.d.ii. Mixed Uses	A horizontal mixed-use development may reduce the amount of required parking by 10% if the project is a mixed-use development that includes, as part of an integrated development plan, both residential and non-residential uses or by 25 if the property is within a ¼ mile walking distance to a transit or front runner station. This measurement shall be made along standard pedestrian routes from the property with a parking study submittal by a Registered Professional Engineer, to be approved through the development or site plan approval process.	Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.2.e. Calculation Spaces	In case of fractional results in calculating parking requirements, the required numbers of the sum of the various uses shall be rounded up to the nearest whole number if the fraction is .5 or greater.	Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.2.f. Joint Use Parking		Not applicable.	☐ Yes ☐ No ☒ N/A
15.38.030.2.g. Offsite Parking			☐ Yes ☐ No ☒ N/A
15.38.040 Off-Street Loading Requirements			☐ Yes ☐ No ☒ N/A
15.38.040.2.h. Bicycle Parking	Required bicycle parking shall be convenient, secure, and	In compliance. The applicant shall provide three (3)	☒ Yes

	readily accessible to shoppers, customers, visitors, employees, students, residents, commuters, and others on the site.	bicycle parking stalls within their principle storage garage.	☐ No ☐ N/A
15.38.040.2.h.i. Bicycle Parking	<p>Required Bicycle Parking Spaces: Bicycle parking spaces shall be required in all zones for each site to which this Title applies. The number of bicycle parking spaces to be provided shall be a minimum of three (3) or a number equal to ten percent (10%) of the required on-site automobile parking spaces, whichever is greater. The total number of bicycle parking spaces required by this Title shall not exceed thirty (30) spaces per building. Exception: The Community Development Director may reduce the bicycle parking requirements by fifty percent (50%) for developments that are not likely to attract bicycle traffic because of the nature, location, or other circumstances associated with the development. Developments which are not likely to attract bicycle traffic, but are not limited to, a car wash and personal storage units.</p>	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.1. Bicycle Rack General Requirements	Racks shall be of an “inverted-U” design or as approved by the Community Development Director. Other types of bicycle rack facilities may be provided with approval from the Community Development Director, so long as they meet the requirements list below.	In compliance.	☒ Yes ☐ No ☐ N/A

15.38.040.2.h.ii.2. Bicycle Rack General Requirements	Racks shall be securely anchored so that they cannot be easily removed and of solid construction, resistant to rust, corrosion, hammers, and saws.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.3. Bicycle Rack General Requirements	Racks shall be located in a convenient, highly visible, active, and well-lit area.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.4. Bicycle Rack General Requirements	Racks may be located no more than fifty (50) feet from the primary entrance of each principal building. If there is more than one primary entrance to a building, the bicycle parking must be along all facades with a main entrance.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.5. Bicycle Rack General Requirements	Racks must hold the bicycle securely by means of the frame. The bicycle frame must be able to be supported so that the bicycle cannot be pushed or fall to one side in a manner that will damage the wheels. The rack should provide two (2) points of contact with the frame, a minimum of six (6) inches apart horizontally. The rack's high point should be at least thirty-two (32) inches.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.6. Bicycle Rack General Requirements	Racks should be arranged so that the parking area for each bicycle is a minimum of two (2) feet wide and six (6) feet long.	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.7. Bicycle Rack General Requirements	Racks should have a minimum of three (3) feet between rack elements (side by side).	In compliance.	☒ Yes ☐ No ☐ N/A
15.38.040.2.h.ii.8. Bicycle Rack General Requirements	A minimum of five (5) feet of aisle width shall be provided between rows of bikes.	In compliance.	☒ Yes ☐ No ☐ N/A

15.38.040.2.h.ii.9. Bicycle Rack General Requirements	Where two bikes can be locked on both sides without conflict, each side can be counted as one (1) required space.	In compliance.	☒ Yes ☐ No ☐ N/A
VZC Chapter 15.40 Landscaping			
Category	Standard	Staff Comments	Compliance
15.40.080.1.a. Landscape Improvements and Guarantees	All landscape improvements (landscape materials, irrigation system, screening walls et.) shall be installed and paid for by the developer on the site in accordance with the approved final landscape plan prior to the issuance of a certificate of occupancy for the building or use. When considered advisable, upon presentation of a cash bond, cash deposit, or assured letter of credit an amount sufficient to guarantee installation of the landscaping and irrigation system, the City Planner <i>may</i> approve a delay in the immediate installation of the required landscape improvements for a period of time not to exceed 6 months. In those instances where the City Planner approves a delay in the installation of the required landscape improvements, a temporary certificate of occupancy shall be issued for the building or use conditioned upon the satisfactory installation of the required landscape improvements within the time period approved by the Town Planner.	In compliance.	☒ Yes ☐ No ☐ N/A
15.40.080.1.b. Minimum Size of Plantings	Unless otherwise specified herein, all required deciduous trees shall be a minimum of 2-inch caliper in	No trees have been proposed with this development.	☐ Yes ☒ No ☐ N/A

	size. All evergreen trees shall be a minimum of 6 feet in height. All shrubs shall be a minimum of 5 gallon in size.		
15.40.080.1.c. Plant Installation	Plants installed pursuant to this Chapter shall conform to installation standards within the approved Vineyard Tree Manual	In compliance.	☒ Yes ☐ No ☐ N/A
15.40.080.1.d. Plant Materials	Plants shall be drought tolerant and well-suited to the soil conditions at the project site. Plants with similar water needs shall be grouped together in landscape zones as much as possible. The applicant shall provide water requirements for all plant material. Plant materials shall be chosen from the approved Vineyard Tree Manual.	Yes, each proposed plant species was confirmed to be well suited to the soil conditions and drought tolerant.	☒ Yes ☐ No ☐ N/A
15.40.080.1.e. Limitation on the Use of Turf.	Turf shall be limited to 60% of the total landscaped area. All landscape areas, other than those designated for recreation purposes such as parks and playfields as determine by the City Planner are subject to this limitation.	In compliance. There is no turf being proposed within this project.	☒ Yes ☐ No ☐ N/A
15.40.080.1.f. Natural Topping of Landscape Areas	All landscaped areas shall be finished with a natural topping material which may include but not limited to the following: turf, groundcover, planting, decorative rock (2 inches minimum depth and a minimum size of ½ inch), or wood mulch (4 inches minimum depth). A pre-emergent herbicide shall be applied to the ground prior to the placement of natural surface materials in any landscaped area to prevent weed growth.	In compliance. Most of the landscape topping is decorative rock and gravel.	☒ Yes ☐ No ☐ N/A

15.40.080.1.g.i. Irrigation Standards	All landscaped areas shall be supported by an automatic irrigation system which may be a spray, flood, soaker, or drip type system. The irrigation system shall meet all State and Town requirements for potential cross-connections that must be protect against backflow to the culinary water system. All irrigation systems and landscaped areas shall be designed, constructed, and maintained so as to promote water conservation and prevent water overflow or seepage into the street, sidewalk, or parking areas.	Areas that are proposed to have interspersed plant material have been assigned an automatic irrigation system.	☒ Yes ☐ No ☐ N/A
15.40.080.1.g.ii. Irrigation Standards	Each valve shall irrigate a landscape with similar site, slope and soil conditions and plant materials with similar watering needs. Turf and non-turf areas shall be irrigated on separate valves. Drip Emitters and sprinklers shall be placed on separate valves.	In compliance.	☒ Yes ☐ No ☐ N/A
15.40.080.1.h. Separate Connection	Any landscaping that will be owned and maintained by the Town shall have separate irrigation line connection prior to the master meter. A backflow prevention device shall be installed by the developer or property owner as required by the Town Engineer.	NA	☐ Yes ☐ No ☒ N/A
15.40.080.1.i. Soil Preparation	Soil preparation will be suitable to provide healthy growing conditions for the plants and to encourage water infiltration and penetration. Soil preparation shall include scarifying the soil to a minimum depth of six (6) inches and amending	In compliance.	☒ Yes ☐ No ☐ N/A

	the soil with organic material as per specific recommendations of the Landscape Designer/Landscape Architect based on the soils report.		
15.40.080.1.j. Protection of Landscaped Areas	Permanent containment barriers (concrete curbs or bumper guards) shall be installed and properly secured within or adjacent to all proposed parking areas and along all driveways and vehicular access ways to prevent the destruction of landscape materials by vehicles.	In compliance.	☒ Yes ☐ No ☐ N/A
15.40.080.1.k. Use of Landscaped Areas	No part of any landscape area shall be used for any other use such as parking, signs, or display; except for required on-site retention areas or when such use is shown on the approved final landscape plan.	In compliance.	☒ Yes ☐ No ☐ N/A
15.40.080.1.l. Detention Basins	Detention Basin Ordinance.	The project site meets Vineyard's detention basin ordinance. The proposed detention basins were reviewed and approved by the City Engineer.	☒ Yes ☐ No ☐ N/A
15.40.080.2.a. Onsite Landscaped Areas	For all development within the industrial zoning districts, landscaped areas shall be provided on the site in an amount equal to or greater than 5% of the net site area, whichever is greater.	In compliance. The applicant has provided 5.8% of the net site area to be landscaping.	☒ Yes ☐ No ☐ N/A
15.40.080.2.b.	For all development within all other zoning district, landscaped areas shall be provided on the site in an amount equal to or greater than 20% of the net site area. For the purposes of this	NA	☐ Yes ☐ No ☒ N/A

	section, landscape areas shall also include plazas.		
15.40.080.2.c.	All portions of a development site not occupied by buildings, structures, vehicle access and parking areas, loading/unloading areas, and approved storage areas shall be landscaped in accordance with the provisions of this Chapter. Future building pads within a phased development shall be improved with temporary landscaping, or otherwise maintained weed-free in such a manner as may be approved by the City Planner.	In compliance.	☒ Yes ☐ No ☐ N/A
15.40.080.2.d.	The landscaping of all street rights-of-way contiguous with the proposed development site not used for street pavement, curbs, gutters, sidewalks, or driveways shall be required in addition to the on-site landscaped areas required herein.	The landscaping of the 1600 N right of way shall be determined by the City as they work with the land owner, Vineyard Properties of Utah LLC.	☒ Yes ☐ No ☐ N/A
15.40.080.3.a. Landscaped Buffers	A minimum 10-foot-wide landscape buffer shall be required along those property lines of a site developed for multiple-family residential, commercial, or industrial uses when such property lines are contiguous with any residential development or residential zoning district; except that no such landscape buffers shall be required for multiple-family residential contiguous with other multiple-family development or a multiple-family zoning district. The area of this landscape buffer shall not be used to satisfy the landscape	Not applicable.	☐ Yes ☐ No ☒ N/A

	area requirements of this Section.		
15.40.080.3.b.	The landscape buffer areas shall be improved with a minimum of 1 screening tree spaced at each 15-foot interval of the property boundary being screened.	NA	☐ Yes ☐ No ☒ N/A
15.40.080.4. Parking Lot Landscaping	Parking lot landscaping shall be as required in Title 15.38 Parking and Loading Requirements. The landscaped area within these planters may be used to satisfy, to the extent provided, the landscaped area requirements set forth in this Section.	No landscaping has been provided within the newly proposed parking areas. The Planning Commission shall determine if this requirement is appropriate for a public utility facility.	☐ Yes ☒ No ☐ N/A
15.40.080.5. Building Foundations	For each elevation visible from a public or private street, a minimum of 5-foot foundation planting area shall be provided.	NA. There no elevations visible from the street.	☐ Yes ☐ No ☒ N/A
15.40.080.6.a. Street Frontages	The landscape setback, measured from the property line, for non-residential and multi-family uses shall be as follows: Arterial: 25 Feet Collector: 20 Feet Local Streets: 15 feet	There is a significant buffer between the future 1600 N ROW and the existing site property line.	☒ Yes ☐ No ☐ N/A
15.40.080.6.b. Street Frontages	The landscape setback for all residential subdivisions, measured from the back of curb, shall be as follows: Arterial: 20 feet Collector: 15 feet	NA	☐ Yes ☐ No ☒ N/A
15.40.080.6.c. Street Frontages	The landscape setback identified above shall be established and maintained along all street frontages between any perimeter wall, building, on-site parking area or outdoor storage area and the nearest point of the existing or future required street/sidewalk	In compliance.	☒ Yes ☐ No ☐ N/A

	improvements (the back of an existing sidewalk, the line equal to the back of a future required sidewalk, or the back of the street curb where no sidewalk is required). However, for reverse street frontage the landscape widths shall be in accordance with adopted street cross-section designs.		
15.40.080.6.d. Street Frontages	Turf shall be limited to 30% of the total landscape street frontage area. This minimum quantity of trees, shrubs, and vegetative groundcover shall be located between the curb and the landscape setback. The street frontage landscaping shall be designed and located to enhance the proposed development project and the streetscape.	NA. All street design elements for the 1600 N ROW shall be determined at a future point by the City.	☐ Yes ☐ No ☒ N/A
15.40.080.6.e. Street Frontages	The installation of street trees, shrubs and vegetative groundcover shall be required for all applicable projects in an amount equal to or greater than 1 tree and 10 shrubs for every 20 feet of street frontage. Or 1 tree and 10 shrubs for every 40 feet of street frontage for residential subdivisions and vegetative groundcover as required to meet a minimum of 65% of the total street frontage landscaped area.	NA. All street design elements for the 1600 N ROW shall be determined at a future point by the City.	☐ Yes ☐ No ☒ N/A
15.40.080.7. Cumulative Totals	Quantities of plants required by each of this Chapter which apply to that projected submitted to the town for landscape approval shall be added together to calculate the minimum total quantity of plant materials required for that particular project.	NA.	☐ Yes ☐ No ☒ N/A

CWP Vineyard Wellfield Groundwater Polishing Project Scope of Work:

The Central Utah Water Conservancy District (CUWCD) owns and operates several wells located within Vineyard, Utah, as part of the Central Utah Water Conservancy District Water Development Project (CWP). At present, eight high head wells (Wells 8-15) have been drilled and developed within the wellfield. Wells 11-13 are high producing wells with exceptional water quality.

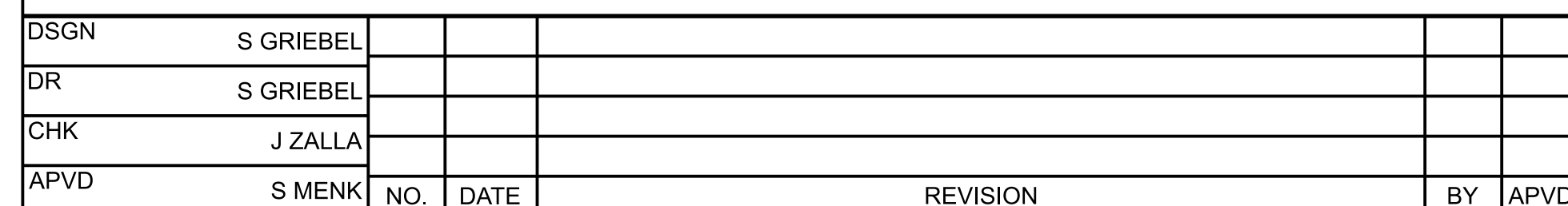
Wells 14 and 15 and the recently drilled Wells 8-10 are relatively high producing wells, but contain higher concentrations of manganese. Wells 7 & 17 are currently being developed and the preliminary tests indicate water quantity and quality similar to Wells 8-10. Although the water from all these wells meets or exceeds primary and secondary drinking water standards, oxidation of naturally occurring manganese in the groundwater from wells 7-10, 14, 15, and 17 produces discoloration of and precipitants in the water when disinfecting chloring is added, which could result in consumer complaints. For this reason, there is a need for a polishing facility. This project is urgent as customer demands continue to go up each year.

Groundwater polishing will occur at this central location. The project will include chlorination facilities, pressure filters, solids handling facilities and yard piping. This will be one of the largest facilities of its kind in the country. It is anticipated that construction will take place from Spring 2023 – Spring 2025.

This facility is owned and operated by CUWCD. The project will be maintained based on standard operations and maintenance procedures for all equipment and facilities. As described, this facility is necessary to meet customer demands in the coming years and, therefore, is a priority to be maintained.

The main use of the site currently is a drinking water facility. This project expands on the existing use. The architectural and site design concepts have been chosen to match the existing buildings on site. The colors and styles can be seen in the rendering documents. This site is completely enclosed by a concrete fence and can only be accessed by CUWCD employees. There is no access to the public.

100% DESIGN DRAWINGS MARCH 2023



VERIFY SCALE

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CENTRAL UTAH WATER
CONSERVANCY DISTRICT

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DWG	001-G-0001
DATE	MARCH 2023
PROJ	W7Y47300

PLOT TIME: 07:34

100% DESIGN

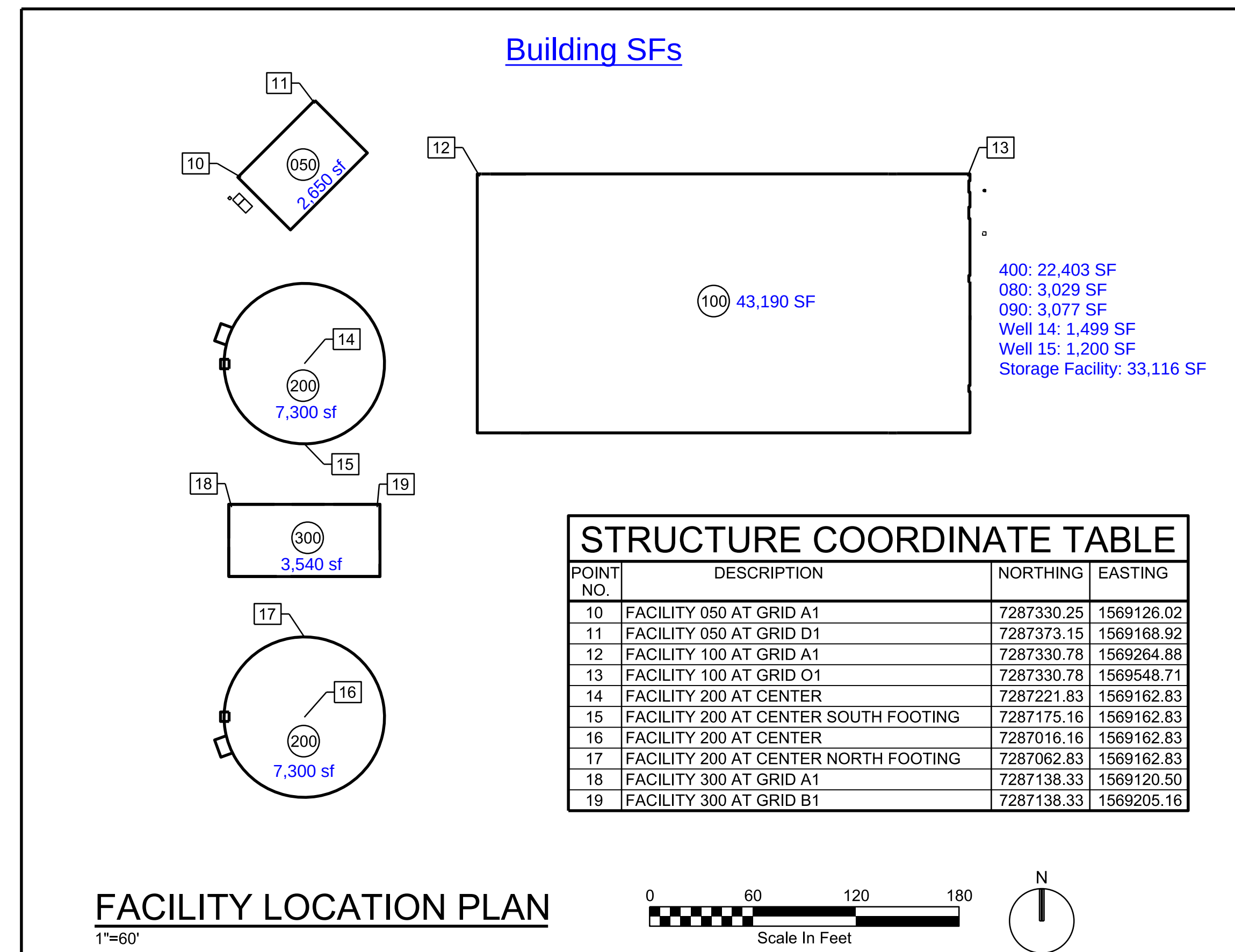
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GROSS SITE AREA: 26.89 ACRES

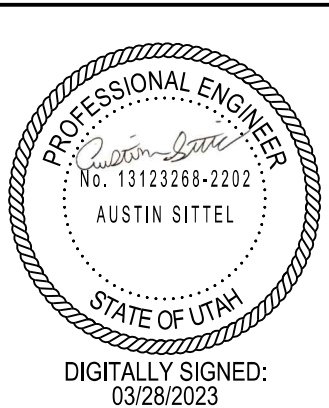
050	UNPOLISHED WATER AND CHLORINE INJECTION VAULT
080	VINEYARD CHLORINATION FACILITY
090	VINEYARD CONTROLS FACILITY
100	GROUNDWATER POLISHING FACILITY
200	BACKWASH WASTE EQUALIZATION BASINS
300	RESIDUALS PUMP STATION
400	SOLIDS LAGOONS

AN ESTIMATED 234,000 SQUARE FEET OF SURFACING COURSE MATERIAL WILL BE REQUIRED FOR PLACEMENT AT LOCATIONS NOT RECEIVING A HARD SURFACE AND NOT OTHERWISE SHOWN ON THE LANDSCAPE PLANS.



STRUCTURE COORDINATE TABLE			
POINT NO.	DESCRIPTION	NORTHING	EASTING
10	FACILITY 050 AT GRID A1	7287330.25	1569126.02
11	FACILITY 050 AT GRID D1	7287373.15	1569168.92
12	FACILITY 100 AT GRID A1	7287330.78	1569264.88
13	FACILITY 100 AT GRID O1	7287330.78	1569548.71
14	FACILITY 200 AT CENTER	7287221.83	1569162.83
15	FACILITY 200 AT CENTER SOUTH FOOTING	7287175.16	1569162.83
16	FACILITY 200 AT CENTER	7287016.16	1569162.83
17	FACILITY 200 AT CENTER NORTH FOOTING	7287062.83	1569162.83
18	FACILITY 300 AT GRID A1	7287138.33	1569120.50
19	FACILITY 300 AT GRID B1	7287138.33	1569205.16

FACILITY LOCATION PLAN



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DR	B CHELONIS						
CHK	E NEPERUD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

Jacobs.



CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
LAYOUT OVERALL PLAN

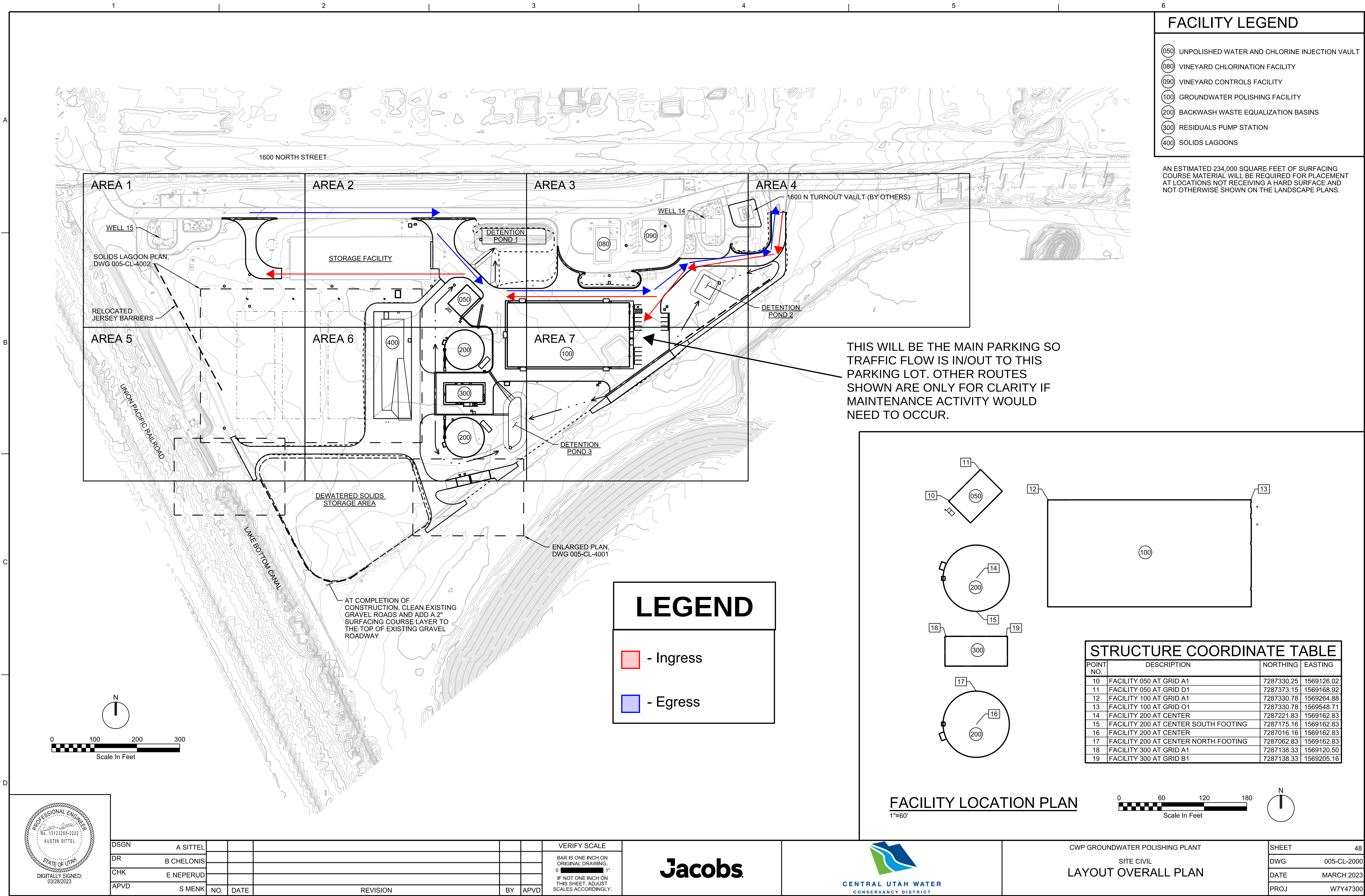
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DWG	005-CL-2000
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 005-CL-2000 W7Y47300.dgn

PLOT DATE: 3/27/2023

PLOT TIME: 1:59:53 PM

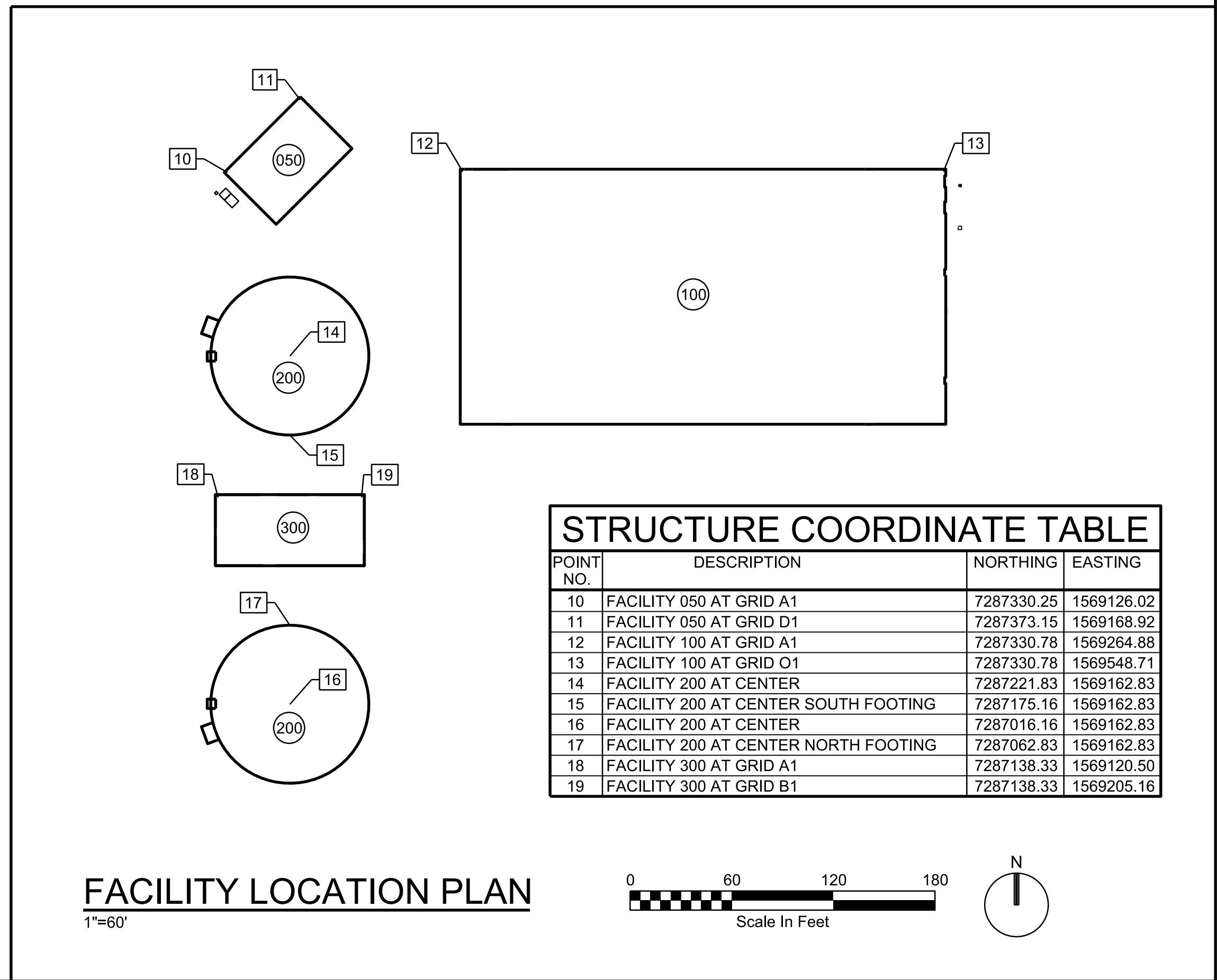
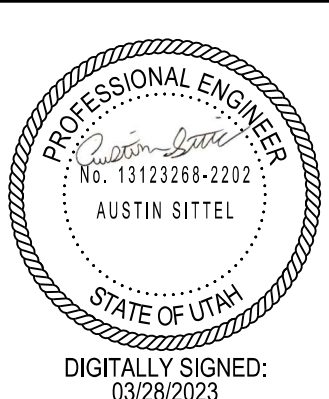
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FACILITY LEGEND

- 050 UNPOLISHED WATER AND CHLORINE INJECTION VAULT
- 080 VINEYARD CHLORINATION FACILITY
- 090 VINEYARD CONTROLS FACILITY
- 100 GROUNDWATER POLISHING FACILITY
- 200 BACKWASH WASTE EQUALIZATION BASINS
- 300 RESIDUALS PUMP STATION
- 400 SOLIDS LAGOONS

AN ESTIMATED 234,000 SQUARE FEET OF SURFACING COURSE MATERIAL WILL BE REQUIRED FOR PLACEMENT AT LOCATIONS NOT RECEIVING A HARD SURFACE AND NOT OTHERWISE SHOWN ON THE LANDSCAPE PLANS.



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DR	B CHELONIS							BAR IS ONE INCH ON ORIGINAL DRAWING.
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Jacobs



CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
LAYOUT OVERALL PLAN

SHEET	48
DWG	005-CL-2000
DATE	MARCH 2023
PROJ	W7Y47300

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FACILITY LEGEND

- | | |
|-----|---|
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| 080 | VINEYARD CHLORINATION FACILITY |
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AN ESTIMATED 234,000 SQUARE FEET OF SURFACING
COURSE MATERIAL WILL BE REQUIRED FOR PLACEMENT
AT LOCATIONS NOT RECEIVING A HARD SURFACE AND
NOT OTHERWISE SHOWN ON THE LANDSCAPE PLANS.

CUWCD CWP -
GROUNDWATER
POLISHING FACILITY
ZONE: M

LEGEND

-  - M: Manufacturing
-  - FOI: Flex Office & Industry
-  - PF: Public Facility
-  - TC: Town Center

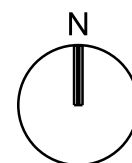
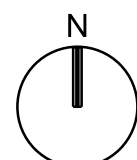
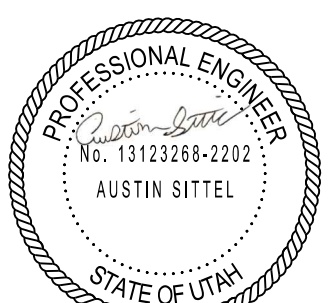
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10	FACILITY 050 AT GRID A1	7287330.25	1569126.02
11	FACILITY 050 AT GRID D1	7287373.15	1569168.92
12	FACILITY 100 AT GRID A1	7287330.78	1569264.88
13	FACILITY 100 AT GRID O1	7287330.78	1569548.71
14	FACILITY 200 AT CENTER	7287221.83	1569162.83
15	FACILITY 200 AT CENTER SOUTH FOOTING	7287175.16	1569162.83
16	FACILITY 200 AT CENTER	7287016.16	1569162.83
17	FACILITY 200 AT CENTER NORTH FOOTING	7287062.83	1569162.83
18	FACILITY 300 AT GRID A1	7287138.33	1569120.50
19	FACILITY 300 AT GRID B1	7287138.33	1569205.16

FACILITY LOCATION PLAN

 $1''=60$

Scale In Feet



DSGN	A SITTEL						VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	B CHELONIS						
CHK	E NEPERUD						
APVD	S MENK	NO.	DATE	REVISION		BY APVD	

Jacobs.



CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
LAYOUT OVERALL PLAN

SHEET	48
DWG	005-CL-2000
DATE	MARCH 2023
PROJ	W7Y47300

1

2

3

4

5

6



SHEET KEYNOTES

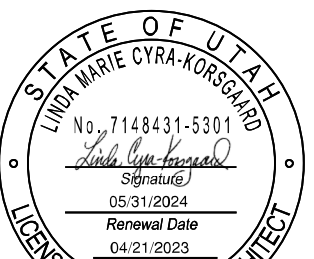
- 3/4" LAKESIDE GRAVEL WITH 3'x4' TRAVERTINE MARBLE BOULDERS AND 4'x6' TRAVERTINE MARBLE BOULDERS
- 1-1/2" ROYAL GRAVEL WITH 3'x4' ROYAL BOULDERS AND 4'x6' ROYAL BOULDERS
- 1" TO 4" SOUTH TOWN COBBLE WITH 3'x4' ROMAN BOULDERS AND 4'x6' ROMAN BOULDERS

DETENTION POND 1

TOP OF SLOPE

080
VINEYARD
CHLORINATION
FACILITY090
VINEYARD
CONTROLS
FACILITY

WELL 14

1600 N TURNOUT
VAULT (BY OTHERS)DETENTION
POND 2100
GROUNDWATER
POLISHING
FACILITYDIGITALLY SIGNED:
04/21/2023

DSGN	H MILLER								
DR	H MILLER								
CHK	L CYRA-KORSGAARD	1	04/21/23	ADDENDUM NO. 1			HM	SM	
APVD	S MENK	NO.	DATE	REVISION			BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1 2 3 4 5 6 7 8 9 10
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

Jacobs



CWP GROUNDWATER POLISHING PLANT
LANDSCAPE
LAYOUT PLAN
AREA 3

SHEET	DWG	006-L-2003
DATE	APRIL 2023	
PROJ	W7Y47300	

FILENAME: 006-L-2003_W7Y47300.dgn

PLOT DATE: 04/19/2023

PLOT TIME: 12:26:20 PM

GENERAL SHEET NOTES

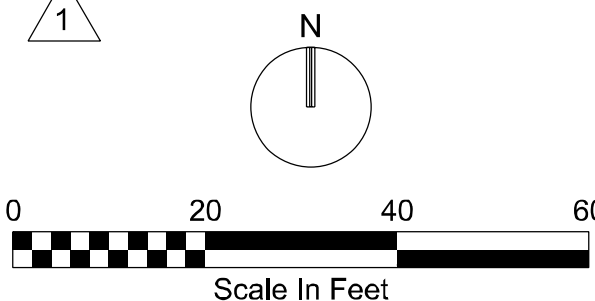
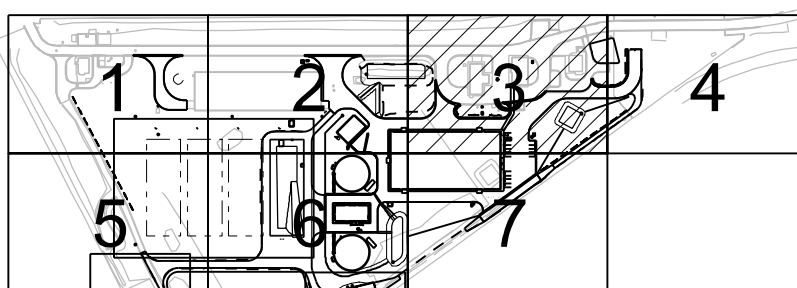
- SIZE AND DESCRIPTION BASED ON ROCKUTAH.COM. SUBSTITUTIONS MATCHING COLOR AND SIZE MAY BE SUBMITTED FOR OWNERS APPROVAL.
- APPLY PRE-EMERGENT AND POST-EMERGENT SPRAY IN ALL DECORATIVE ROCK AREAS.
- STAKE BOULDER LOCATIONS TO AVOID CONFLICT WITH SIGNS, SIGHTLINES, UTILITY POLES AND OTHER UNDERGROUND UTILITIES.
- DECORATIVE ROCK MUST BE CLEAN WITH MAX 10% FINES. BOULDERS MUST BE WITHOUT SCRAPES AND MUST BE PLANTED 1/3 BELOW FINISHED GRADE OF DECORATIVE ROCK. REF SPEC SECTION 35 15 00 FOR DECORATIVE ROCK AND BOULDERS.
- INSTALL ABOVE BOULDERS WITH THE LISTED DECORATIVE ROCK BEDS.
- SEE SHEET 006-L-2004 FOR DETAILS AND QUANTITIES.
- SEE 'AMERICAN STANDARD FOR NURSERY STOCK' (ANSI 260.1-1996) FOR MINIMUM PLANT QUALITY STANDARDS SUCH AS SIZE OF ROOTBALL OR CALIPER OF TRUNK.
- WITH ENGINEER'S APPROVAL, ADJUST PLANTING LOCATIONS TO AVOID CONFLICTS WITH UTILITIES. VERIFY UTILITY LOCATIONS PRIOR TO PLANTING.
- PLANTING BACKFILL MIX TO BE 1/3 SOIL CONDITIONER & 2/3 NATIVE TOPSOIL. MIX WET BACKFILL SOIL THOROUGHLY WHILE PLANTING.
- ADJUST PLANT LOCATIONS TO AVOID CONFLICT WITH SIGNS, SIGHT LINES, UTILITY POLES AND LINES, AND OTHER APPURTENANCES. IN CASE OF CONFLICT, DEFER TO ENGINEER FOR PLACEMENT.
- PROVIDE MINIMUM SLOPE OF 2% AWAY FROM BUILDINGS FOR DRAINAGE IN MEDIAN AND PLANTERS.
- CONTRACTOR SHALL PROTECT AND MAINTAIN ALL PLANT MATERIAL FROM TIME OF DELIVERY TO TIME OF FINAL ACCEPTANCE. OWNER SHALL NOT BE RESPONSIBLE FOR LOSSES DUE TO VANDALISM, THEFT, OR SEVERE WEATHER.
- INSTALL SHRUBS SO THAT AT MATURE SPREAD EDGE OF GROWTH IS 36" MINIMUM FROM EDGE OF WALKWAY, ROADWAY AND BUILDING.
- BOULDERS MUST BE A MINIMUM OF FIVE FEET FROM EDGE OF WALKWAY, ROADWAY AND BUILDING.

ROCK MULCH/BOULDER SCHEDULE

SYMBOL	SIZE/DESCRIPTION
	3/4" LAKESIDE GRAVEL WITH 3'x4' TRAVERTINE MARBLE BOULDER(S) 4'x6' TRAVERTINE MARBLE BOULDER(S)
	1-1/2" ROYAL GRAVEL WITH 3'x4' ROYAL BOULDER(S) 4'x6' ROYAL BOULDER(S)
	1" TO 4" SOUTH TOWN COBBLE WITH 3'x4' ROMAN BOULDER(S) 4'x6' ROMAN BOULDER(S)
	3'x4' BOULDER
	4'x6' BOULDER

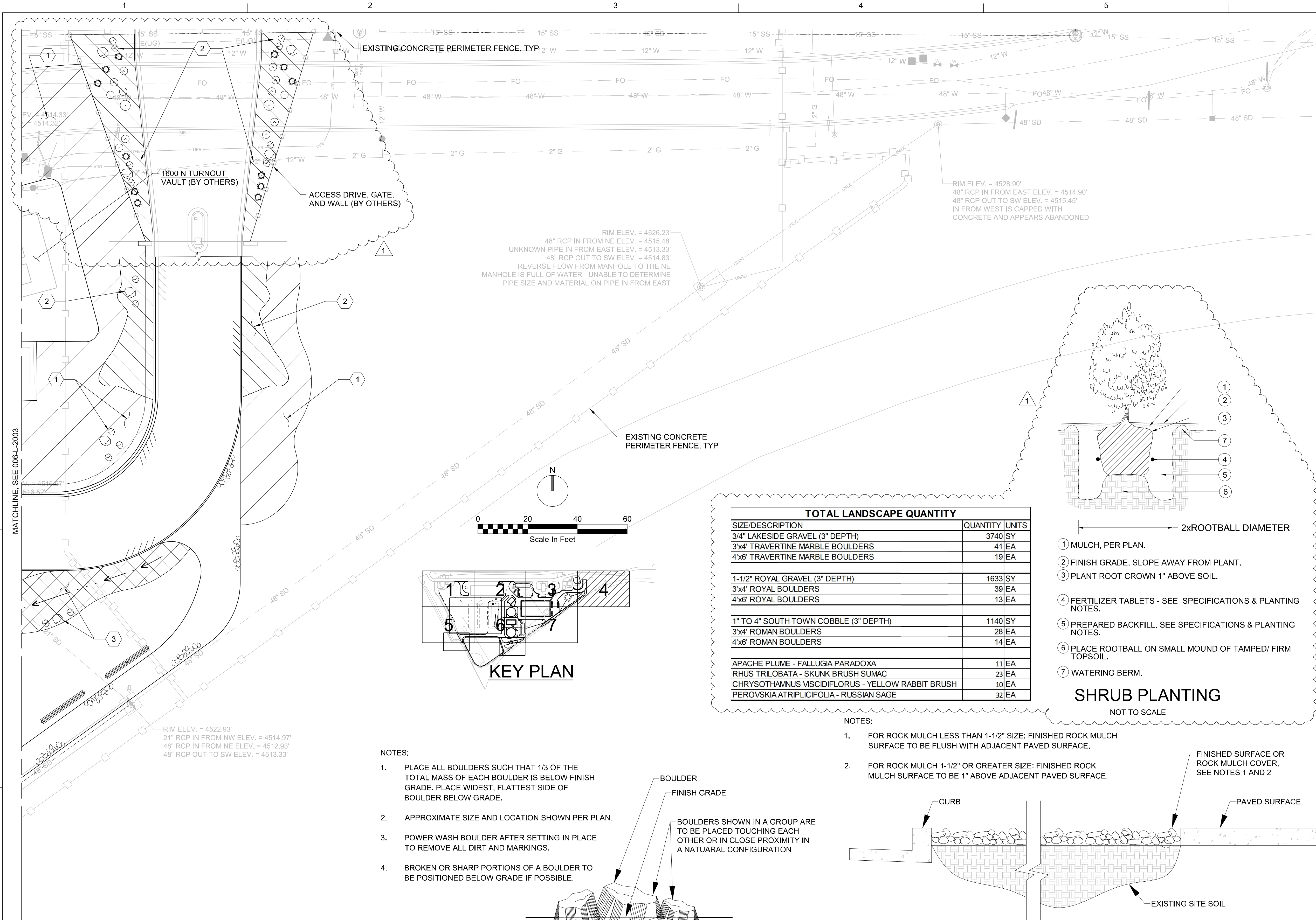
PLANT SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE
	APACHE PLUME	FALLUGIA PARADOXA	5 GAL
	SKUNK BRUSH SUMAC	RHUS TRILOBATA	5 GAL
	YELLOW RABBIT BRUSH	CHRYSOETHAMNUS VISCIDIFLORUS	5 GAL
	RUSSIAN SAGE	PEROVSKIA ATRIPLICIFOLIA	5 GAL



KEY PLAN

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GENERAL SHEET NOTES

1. SIZE AND DESCRIPTION BASED ON ROCKUTAH.COM. SUBSTITUTIONS MATCHING COLOR AND SIZE MAY BE SUBMITTED FOR OWNERS APPROVAL.
2. APPLY PRE-EMERGENT AND POST-EMERGENT SPRAY IN ALL DECORATIVE ROCK AREAS.
3. STAKE BOULDER LOCATIONS TO AVOID CONFLICT WITH SIGNS, SIGHTLINES, UTILITY POLES AND OTHER UNDERGROUND UTILITIES.
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5. INSTALL ABOVE BOULDERS WITH THE LISTED DECORATIVE ROCK BEDS.
6. SEE SHEET 006-L-2004 FOR DETAILS AND QUANTITIES.
7. SEE 'AMERICAN STANDARD FOR NURSERY STOCK' (ANSI 260.1-1996) FOR MINIMUM PLANT QUALITY STANDARDS SUCH AS SIZE OF ROOTBALL OR CALIPER OF TRUNK.
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14. INSTALL SHRUBS SO THAT AT MATURE SPREAD EDGE OF GROWTH IS 36" MINIMUM FROM EDGE OF WALKWAY, ROADWAY AND BUILDING.
15. BOULDERS MUST BE A MINIMUM OF FIVE FEET FROM EDGE OF WALKWAY, ROADWAY AND BUILDING.

SHEET KEYNOTES

1. 3/4" LAKESIDE GRAVEL WITH 3'x4' TRAVERTINE MARBLE BOULDERS AND 4'x6' TRAVERTINE MARBLE BOULDERS
2. 1-1/2" ROYAL GRAVEL WITH 3'x4' ROYAL BOULDERS AND 4'x6' ROYAL BOULDERS
3. 1" TO 4" SOUTH TOWN COBBLE WITH 3'x4' ROMAN BOULDERS AND 4'x6' ROMAN BOULDERS

ROCK MULCH/BOULDER SCHEDULE

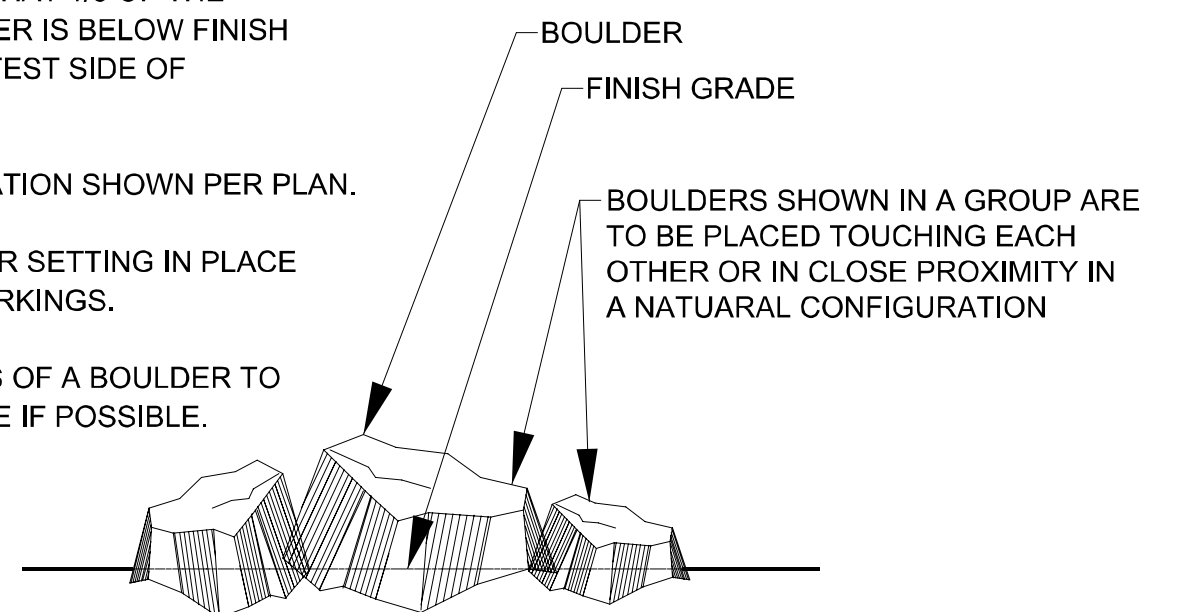
SYMBOL	SIZE/DESCRIPTION
	3/4" LAKESIDE GRAVEL WITH 3'x4' TRAVERTINE MARBLE BOULDER(S) 4'x6' TRAVERTINE MARBLE BOULDER(S)
	1-1/2" ROYAL GRAVEL WITH 3'x4' ROYAL BOULDER(S) 4'x6' ROYAL BOULDER(S)
	1" TO 4" SOUTH TOWN COBBLE WITH 3'x4' ROMAN BOULDER(S) 4'x6' ROMAN BOULDER(S)
	3'x4' BOULDER
	4'x6' BOULDER

PLANT SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE
	APACHE PLUME	FALLUGIA PARADOXA	5 GAL
	SKUNK BRUSH SUMAC	RHUS TRILOBATA	5 GAL
	YELLOW RABBIT BRUSH	CHRYSOETHAMNUS VISCIDIFLORUS	5 GAL
	RUSSIAN SAGE	PEROVSKIA ATRIPLICIFOLIA	5 GAL

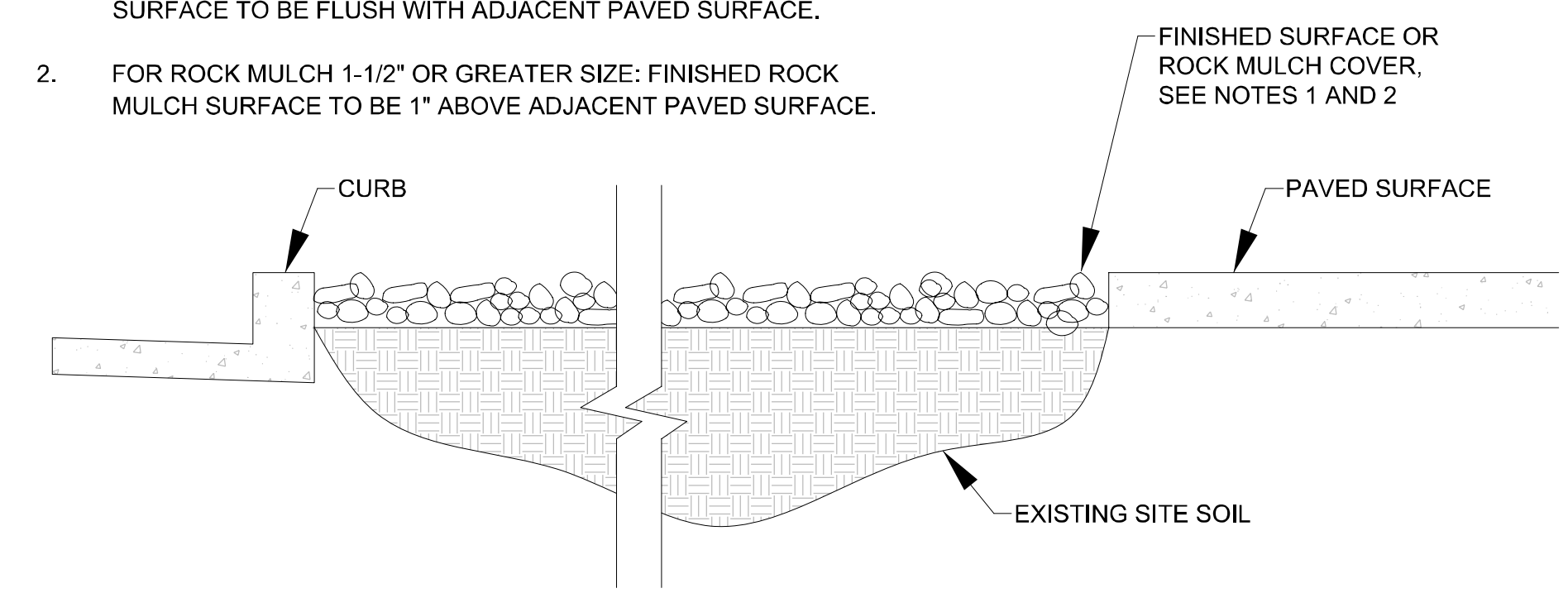
TOTAL LANDSCAPE QUANTITY		
SIZE/DESCRIPTION	QUANTITY	UNITS
3/4" LAKESIDE GRAVEL (3" DEPTH)	3740	SY
3'x4' TRAVERTINE MARBLE BOULDERS	41	EA
4'x6' TRAVERTINE MARBLE BOULDERS	19	EA
1-1/2" ROYAL GRAVEL (3" DEPTH)	1633	SY
3'x4' ROYAL BOULDERS	39	EA
4'x6' ROYAL BOULDERS	13	EA
1" TO 4" SOUTH TOWN COBBLE (3" DEPTH)	1140	SY
3'x4' ROMAN BOULDERS	28	EA
4'x6' ROMAN BOULDERS	14	EA
APACHE PLUME - FALLUGIA PARADOXA	11	EA
RHUS TRILOBATA - SKUNK BRUSH SUMAC	23	EA
CHRYSOETHAMNUS VISCIDIFLORUS - YELLOW RABBIT BRUSH	10	EA
PEROVSKIA ATRIPLICIFOLIA - RUSSIAN SAGE	32	EA

- NOTES:
1. FOR ROCK MULCH LESS THAN 1-1/2" SIZE: FINISHED ROCK MULCH SURFACE TO BE FLUSH WITH ADJACENT PAVED SURFACE.
 2. FOR ROCK MULCH 1-1/2" OR GREATER SIZE: FINISHED ROCK MULCH SURFACE TO BE 1" ABOVE ADJACENT PAVED SURFACE.



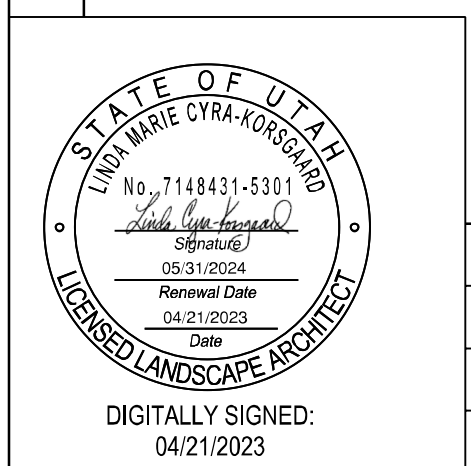
BOULDER PLACEMENT

NOT TO SCALE



ROCK PLACEMENT

NOT TO SCALE



DSGN	H MILLER					VERIFY SCALE
DR	H MILLER					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	L CYRA-KORSGAARD	1	04/21/23	ADDENDUM NO. 1	HM	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
LANDSCAPE
LAYOUT PLAN
AREA 4

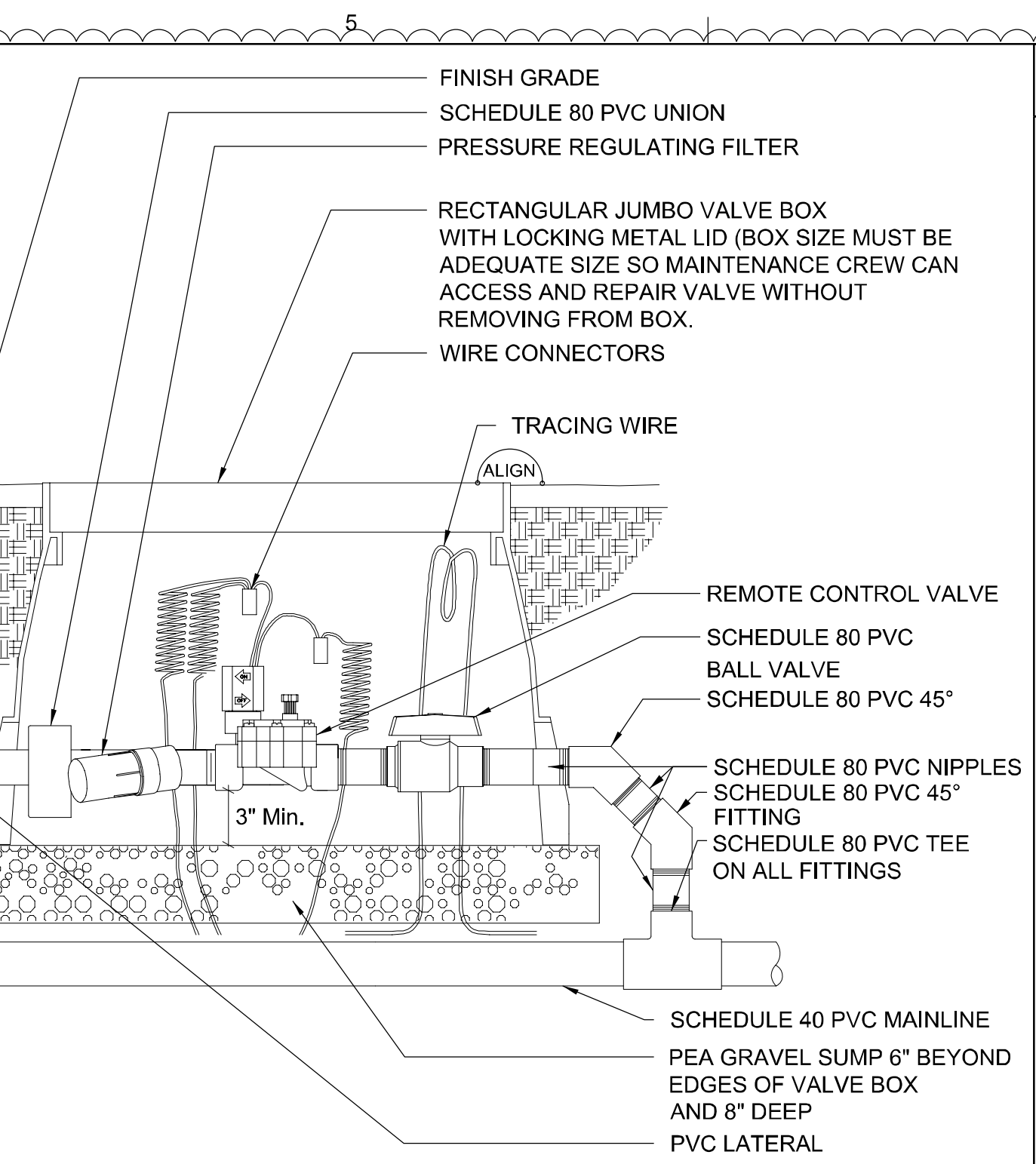
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DATE	APRIL 2023	
PROJ	W7Y47300	

FILENAME: 006-L-2004_W7Y47300.dgn

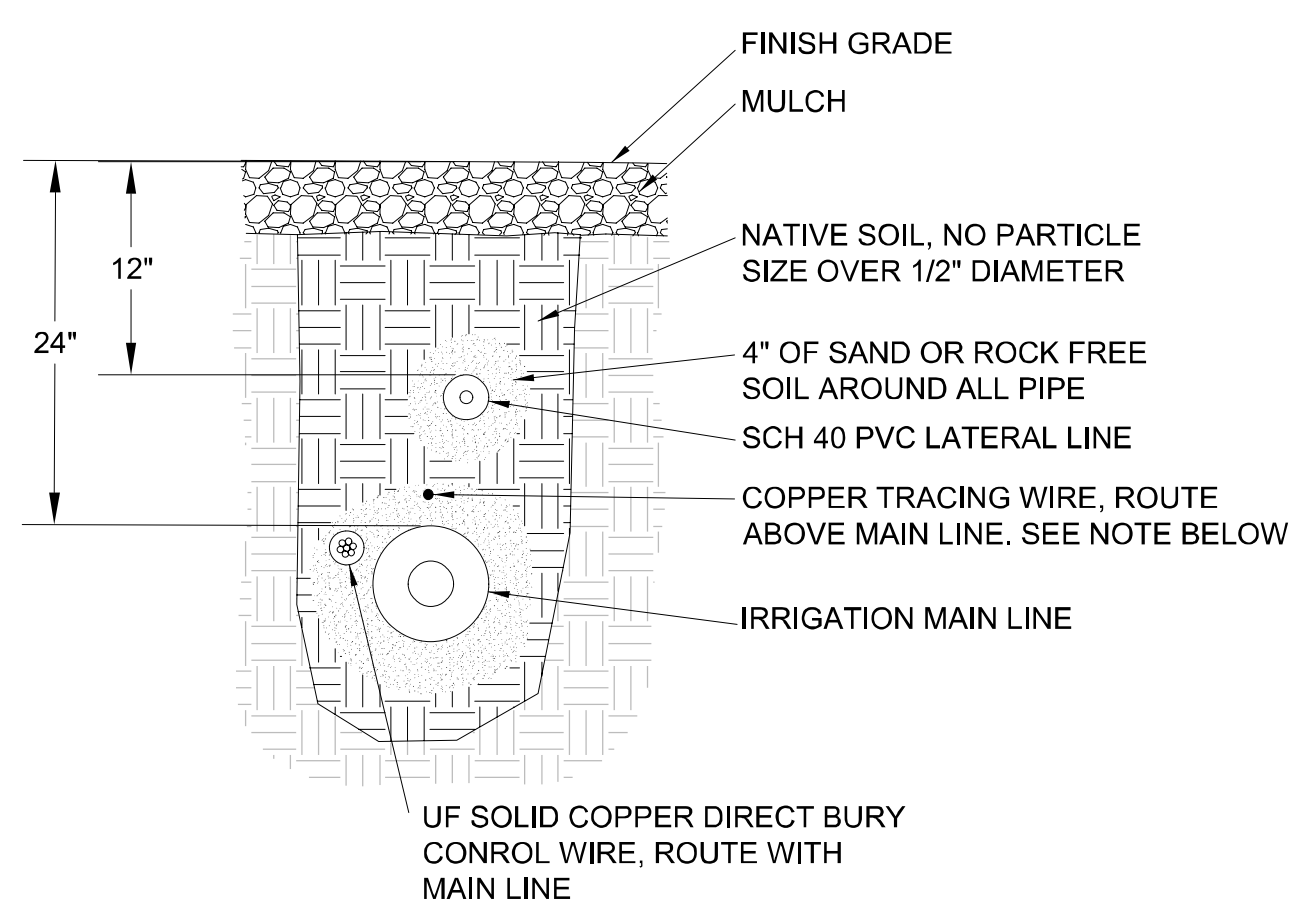
PLOT DATE: 04/19/2023

PLOT TIME: 12:27:43 PM

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SCALE: NOT TO SCALE



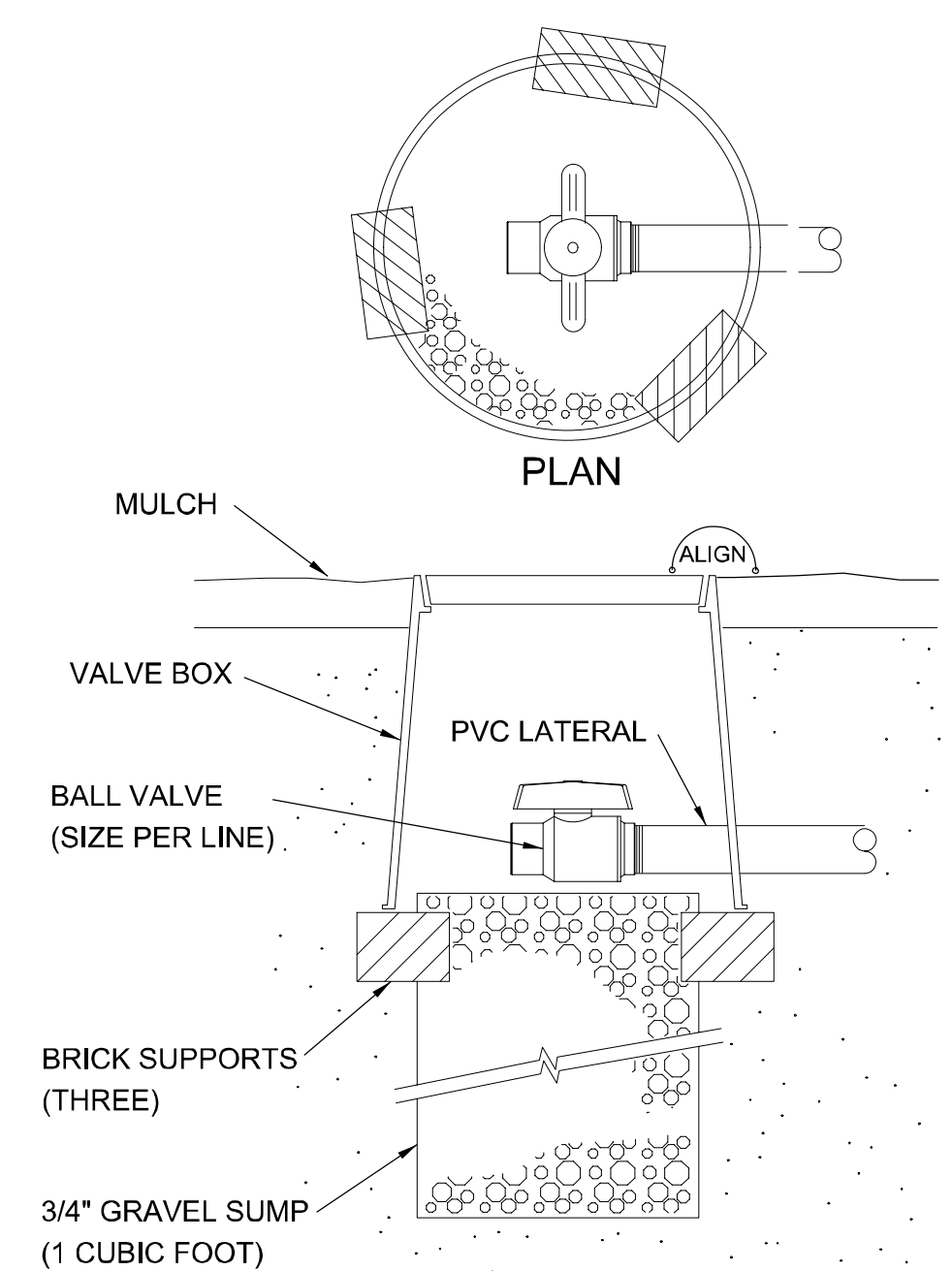
NOTES:

1. PIPE UNDER WALKS, DRIVEWAYS, STRUCTURES, ETC. SEE DETAIL

TRACE WIRE NOTES:

1. COPPER TRACING WIRE (COLOR: GREEN) WILL START AT THE POINT-OF-CONNECTION AND WILL BE ROUTED WITH ALL MAINLINE PIPE.
2. SPLICE TRACING WIRE IN IRRIGATION MAINLINE COMPONENT VALVE BOXES WHEN POSSIBLE, OTHERWISE, PLACE SPLICE IN SEPARATE 10" ROUND VALVE BOX. LABEL THE WIRE IN EACH BOX

SCALE: NOT TO SCALE

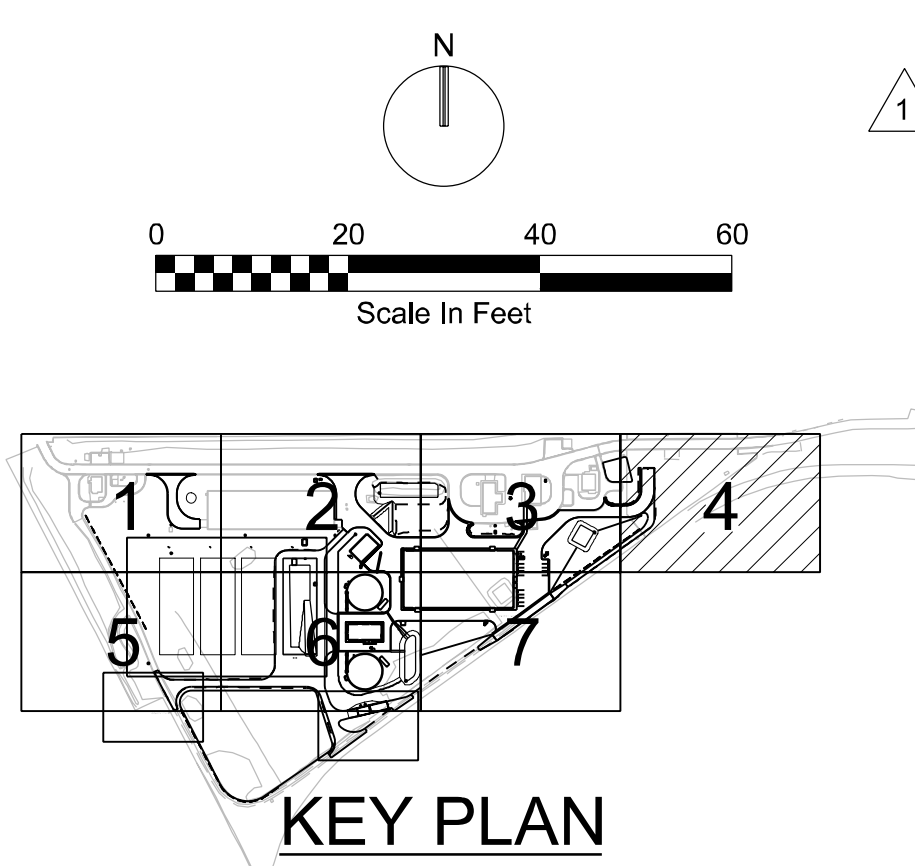
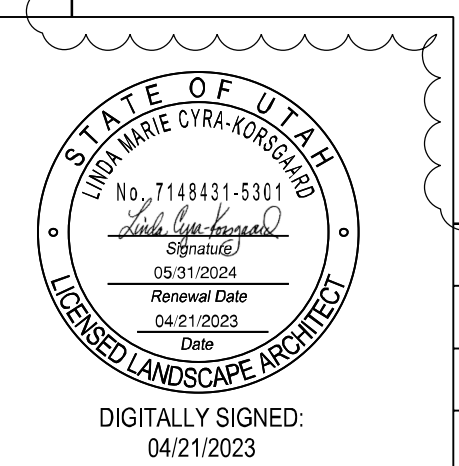


SCALE: NOT TO SCALE

1. PROVIDE AND INSTALL IRRIGATION SYSTEM PER MANUFACTURER'S RECOMMENDATION, OR AS DETAILED.
2. PROVIDE UTILITY LOCATION(S) BEFORE PERFORMING WORK.
3. INSTALL ALL PIPES, VALVES AND OTHER IRRIGATION EQUIPMENT IN PLANTING AREAS.
4. AVOID CONFLICTS WITH OTHER UTILITIES WHENEVER POSSIBLE.
5. VERIFY ALL DIMENSIONS, QUANTITIES AND MATERIALS PRIOR TO INSTALLATION.
6. DO NOT WILLFULLY INSTALL IRRIGATION AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT EXISTING OBSTRUCTIONS, GRADE DIFFERENCES OR DIFFERENCES IN SITE DIMENSIONS MAY NOT HAVE BEEN FORESEEN AND CONSIDERED IN THE DESIGN. NOTIFY THE ENGINEER IMMEDIATELY IF SUCH OBSTRUCTIONS AND DIFFERENCES OCCUR.
7. COMPLY WITH ALL LOCAL CODES AND ORDINANCES. IF THERE IS A CONFLICT, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING.
8. SLEEVES:
 1. THE PIPING AND 24 VOLT WIRING PASSING UNDER PAVING OR GRAVEL ROADS MUST BE SLEEVED.
 2. COORDINATE INSTALLATION OF SLEEVES WITH PAVING ACTIVITIES.
 3. SLEEVES SHALL BE CLASS 200 PVC.
9. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATION WILL BE REQUIRED.
10. LOCATE EXISTING CONTROLLER, EAST WALL OF BUILDING 090. ADD NEW STATION AND PROGRAM NEW VALVES FOR ESTABLISHMENT WATERING. MAINTAIN EXISTING IRRIGATION SYSTEM AND PLANTING TO PROMOTE HEALTHY GROWING CONDITIONS DURING CONSTRUCTION.
11. REFER TO IRRIGATION DETAILS AND SPECIFICATION FOR ADDITIONAL INFORMATION.
12. PERFORM FLUSHING AND PRESSURE TESTING AS SPECIFIED.
13. REPAIR ALL EXISTING IRRIGATION SYSTEM IMPACTED BY CONSTRUCTION BY CAPPING, MOVING, OR MODIFYING TO MAINTAIN A FULLY OPERATIONAL IRRIGATION SYSTEM.

SYMBOL	DESCRIPTION
	BUBBLER EMITTER, RAINBIRD 1401, 0.25 GPM, OR APPROVED EQUAL
	DRAIN VALVE, RAINBIRD 16AFDVC1, FILTERED DRAIN VALVE OR APPROVED EQUAL
	VALVE IN VALVE BOX, RAINBIRD PESB ELECTRIC REMOTE CONTROL VALVE WITH PRESSURE REGULATOR PRS-D AND RAINBIRD LCRBY FILTER OR APPROVED EQUAL
	IRRIGATION LATERAL LINE, CLASS 200, SIZE SHOWN
	VALVE(S), SEE VALVE SCHEDULE
P.O.C.	POINT OF CONNECTION

ZONE NO.	1	2
GPM	12.5	6.5
VALVE SIZE	3/4"	3/4"

[illegible]

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.

0  1"

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

Jacobs



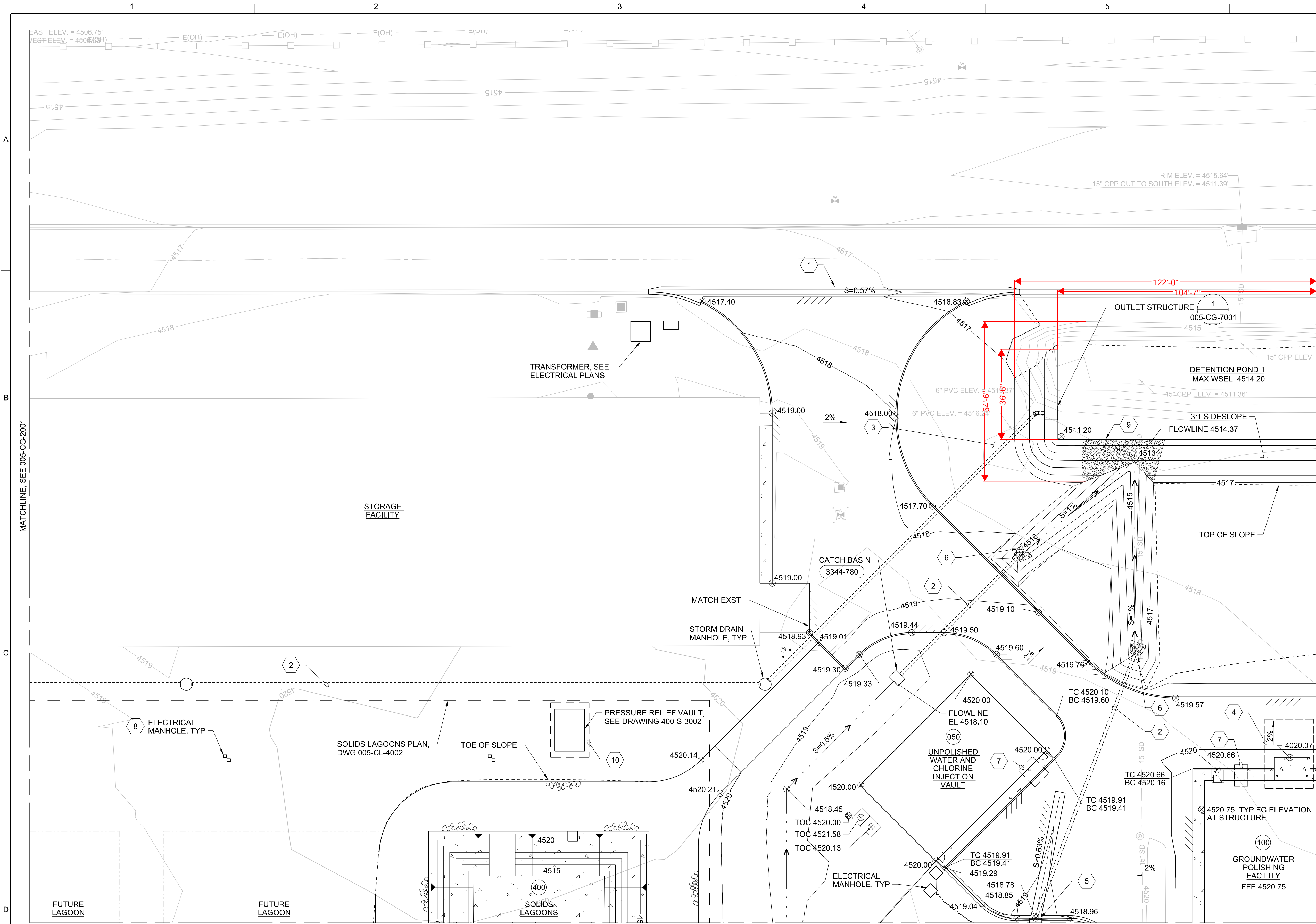
CWP GROUNDWATER POLISHING PLANT

LANDSCAPE IRRIGATION

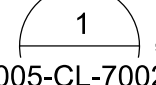
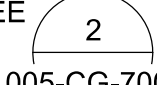
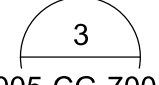
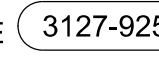
LAYOUT PLAN

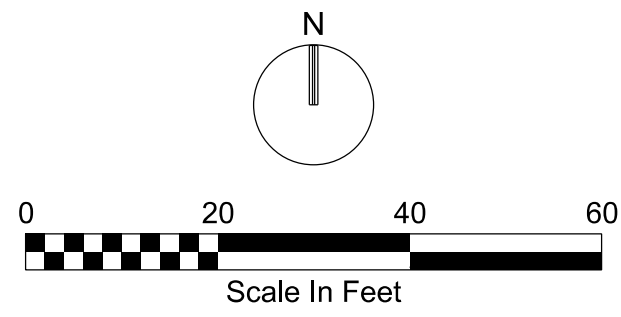
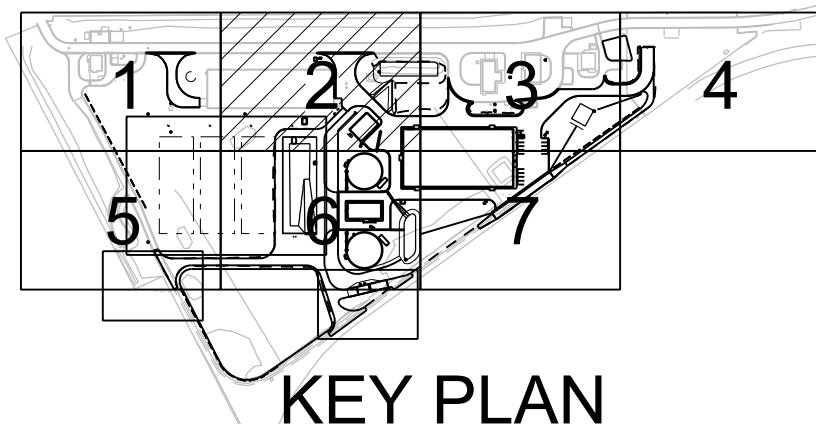
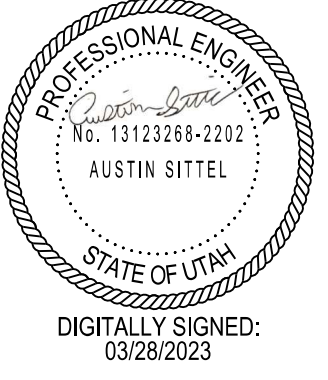
AREA 4

SHEET	
DWG	006-LI-2004
DATE	APRIL 2023
PROJ	W7Y47300



SHEET KEYNOTES

- VALLEY GUTTER SLOPE TO MATCH EXISTING GUTTER SLOPE.
- 15" STORM DRAIN PIPING, SEE YARD PIPING PLANS.
- FILL IN HOLE TO PROVIDE CONTINUOUS DOWNWARD SLOPE BETWEEN PAVEMENT AND EDGE OF DETENTION POND 1.
- ENTRANCE RAMP, SEE , SIMILAR. 005-CL-7002
- MOUNTABLE CURB INLET DETAIL, SEE TOWN OF VINEYARD STANDARD DETAIL 8A.
- OUTLET 1 & 2 ROCK SLOPE PROTECTION, SEE  005-CG-7001 
- SIDEWALK DRAIN, SEE 005-CG-7001, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
- FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE DRAWING 008-E-6001.
- RIPRAP SLOPE PROTECTION, SEE  3127-925
- FINISH GRADE TO BE 4 INCHES BELOW TOP OF CONCRETE. PROVIDE STRAIGHT GRADE OVER 4-FEET AROUND VAULT TO PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT ON ALL SIDES AND MATCH EXISTING GROUND.



DSGN	A SITTEL						
DR	B CHELONIS						
CHK	E NEPERUD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

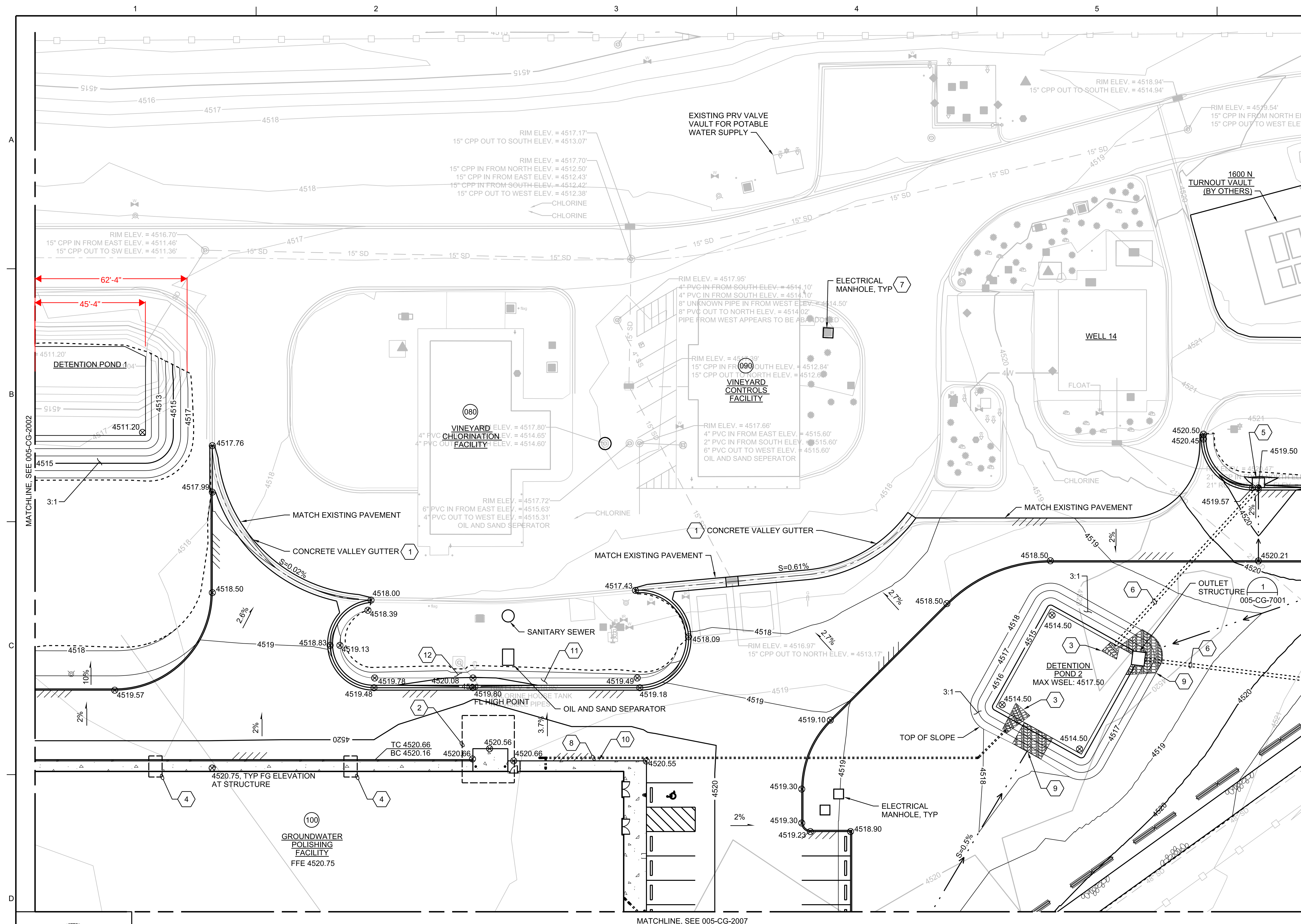
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0  1'
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



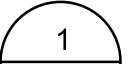
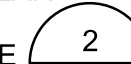
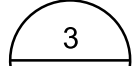
CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 2

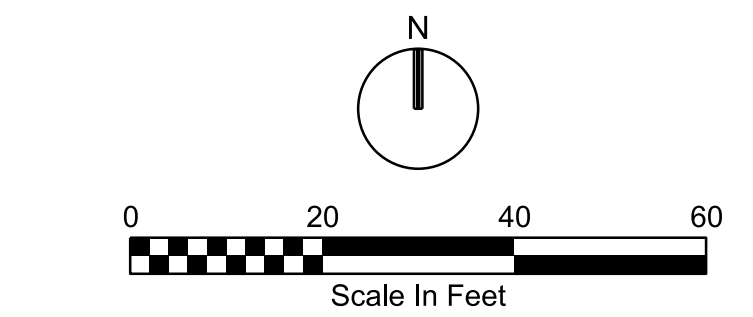
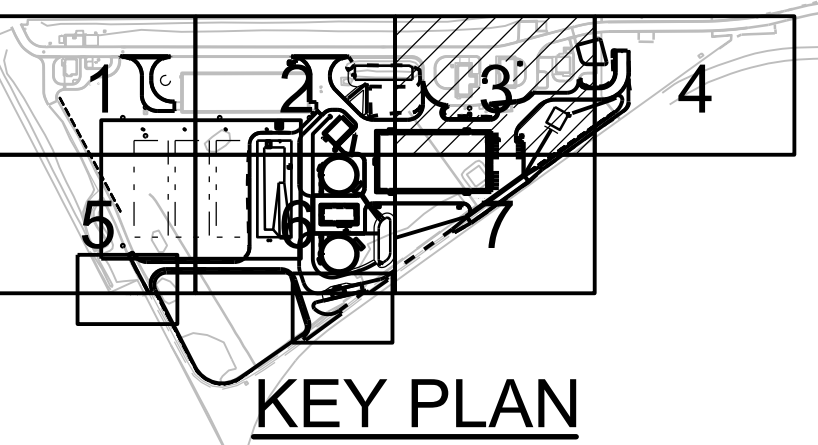
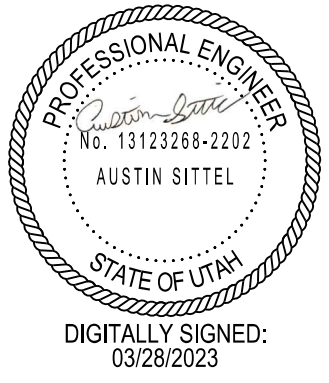
SHEET	63
DWG	005-CG-2002
DATE	MARCH 2023
PROJ	W7Y47300

100% DESIGN



SHEET KEYNOTES

1. VALLEY GUTTER SLOPE TO MATCH EXISTING GUTTER SLOPE. 
2. ENTRANCE RAMP, SEE 005-CL-7002. SIMILAR. 
3. OUTLET 3 ROCK SLOPE PROTECTION, SEE 005-CG-7001 
4. SIDEWALK DRAIN, SEE 005-CG-7001 SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
5. MOUNTABLE CURB INLET DETAIL, SEE TOWN OF VINEYARD STANDARD DETAIL 8A.
6. 15" STORM DRAIN PIPING, SEE YARD PIPING PLANS.
7. FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE DRAWING 008-E-6001.
8. 6" ROOF DRAIN PIPING, SEE YARD PIPING PLANS.
9. RIPRAP SLOPE PROTECTION, SEE (3127-925).
10. PAVEMENT AND SIDEWALK FLUSH AT EDGE.
11. 3-FOOT WIDE BERM WITH 3:1 SIDE SLOPE. BERM TAPERS BACK TO EXISTING AT EACH END.
12. LOCALLY STEEPEN SLOPE TO AVOID EXISTING UTILITY.



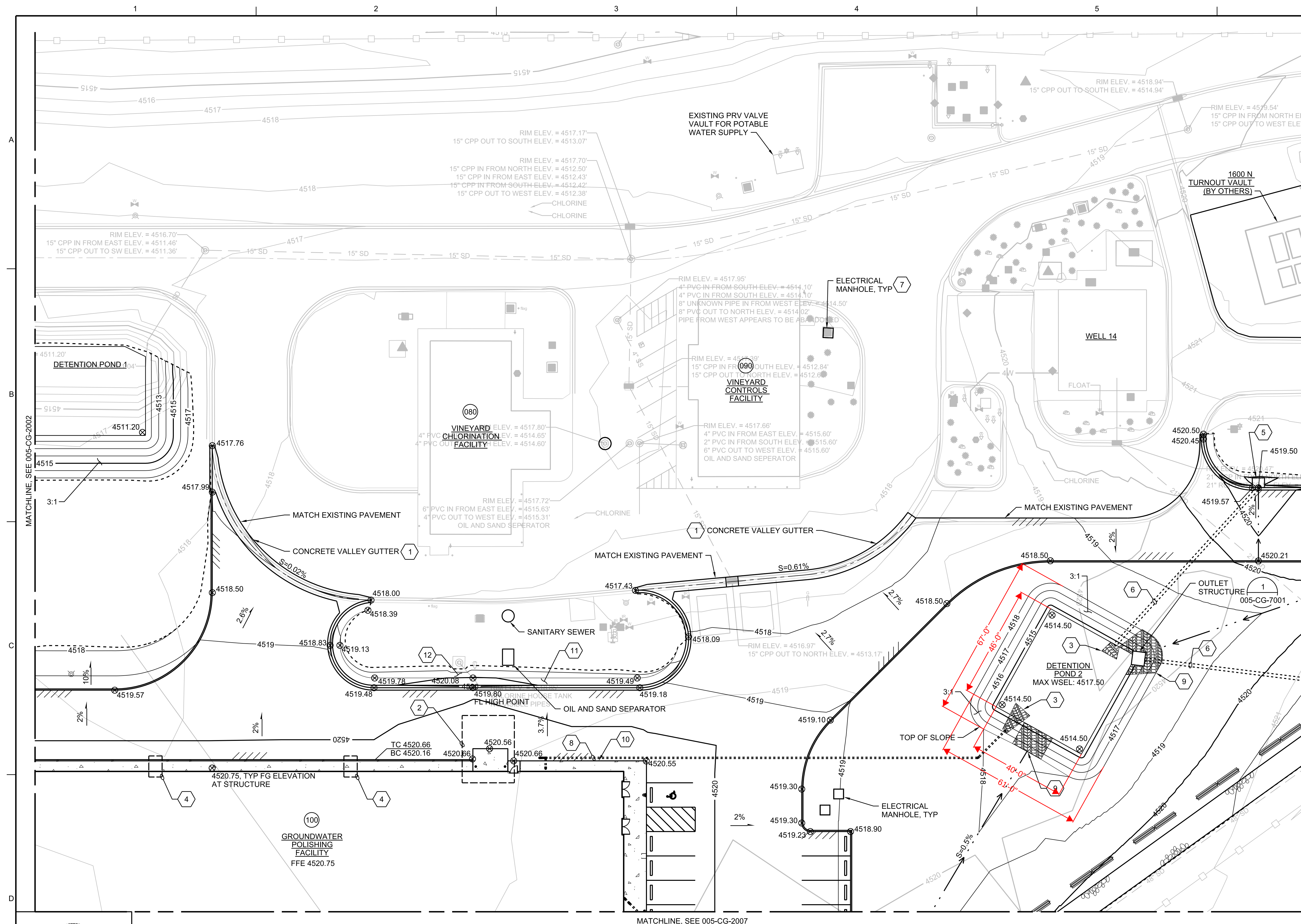
DSGN	A SITTEL						VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0  1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	B CHELONIS						
CHK	E NEPERUD						
APVD	S MENK	NO.	DATE	REVISION		BY	

Jacobs.

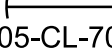
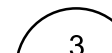


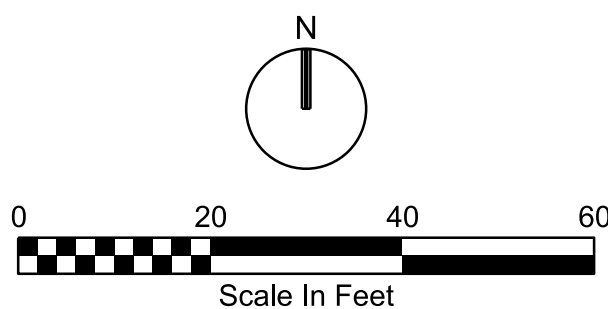
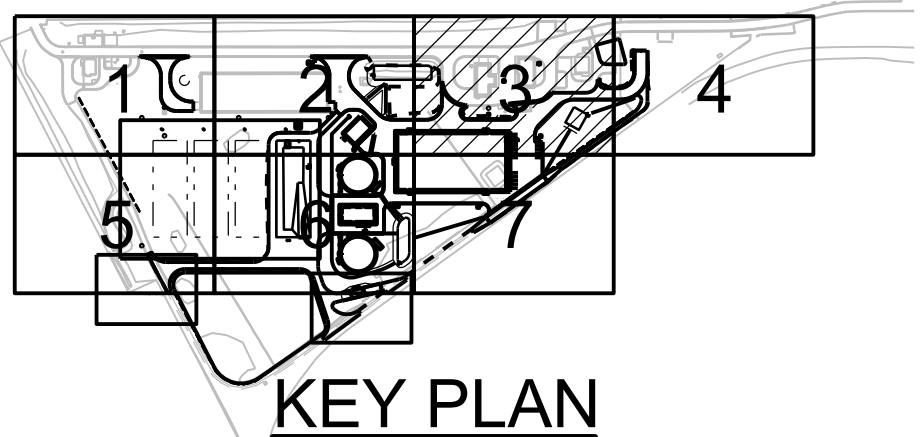
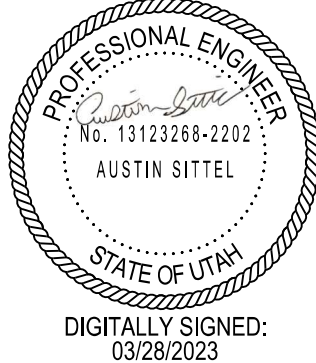
CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 3

SHEET	64
DWG	005-CG-2003
DATE	MARCH 2023
PROJ	W7Y47300



SHEET KEYNOTES

1. VALLEY GUTTER SLOPE TO MATCH EXISTING GUTTER SLOPE. 
2. ENTRANCE RAMP, SEE 005-CL-7002, SIMILAR. 
3. OUTLET 3 ROCK SLOPE PROTECTION, SEE 005-CG-7001 
4. SIDEWALK DRAIN, SEE 005-CG-7001. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
5. MOUNTABLE CURB INLET DETAIL, SEE TOWN OF VINEYARD STANDARD DETAIL 8A.
6. 15" STORM DRAIN PIPING, SEE YARD PIPING PLANS.
7. FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE DRAWING 008-E-6001.
8. 6" ROOF DRAIN PIPING, SEE YARD PIPING PLANS.
9. RIPRAP SLOPE PROTECTION, SEE (3127-925).
10. PAVEMENT AND SIDEWALK FLUSH AT EDGE.
11. 3-FOOT WIDE BERM WITH 3:1 SIDE SLOPE. BERM TAPERS BACK TO EXISTING AT EACH END.
12. LOCALLY STEEPEN SLOPE TO AVOID EXISTING UTILITY.



DSGN	A SITTEL						VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 ██████████ 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	B CHELONIS						
CHK	E NEPERUD						
APVD	S MENK	NO.	DATE	REVISION		BY APVD	

Jacobs.



CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 3

SHEET	64
DWG	005-CG-2003
DATE	MARCH 2023
PROJ	W7Y47306

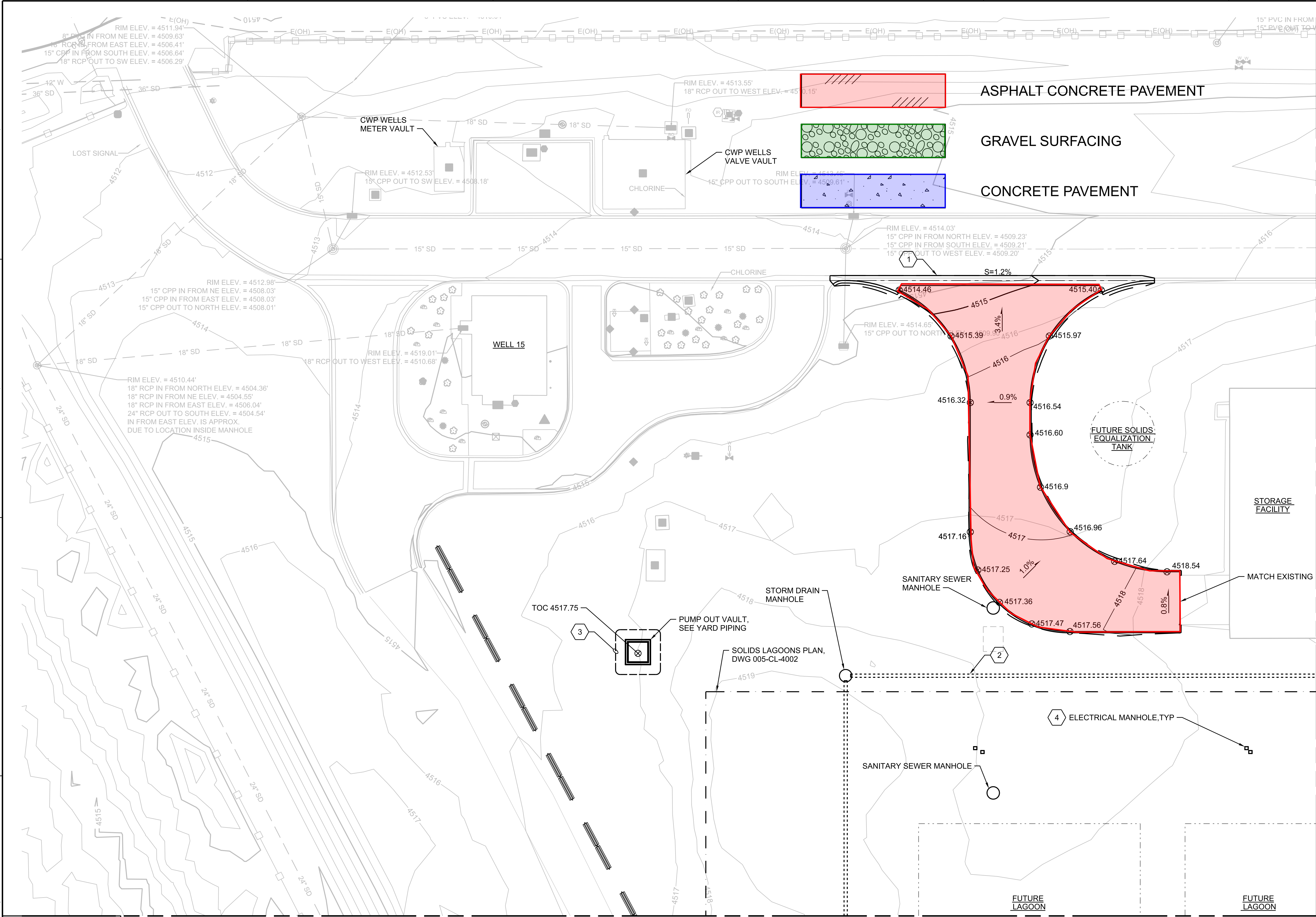
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PLOT DATE: 3/22/2023

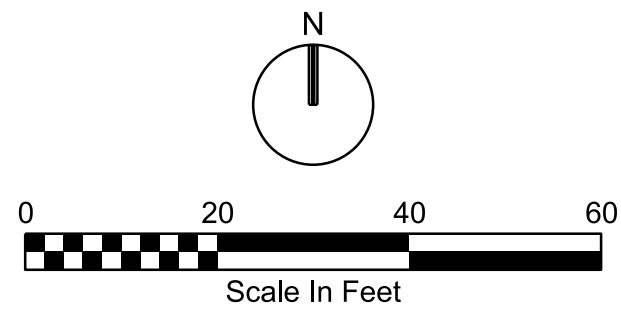
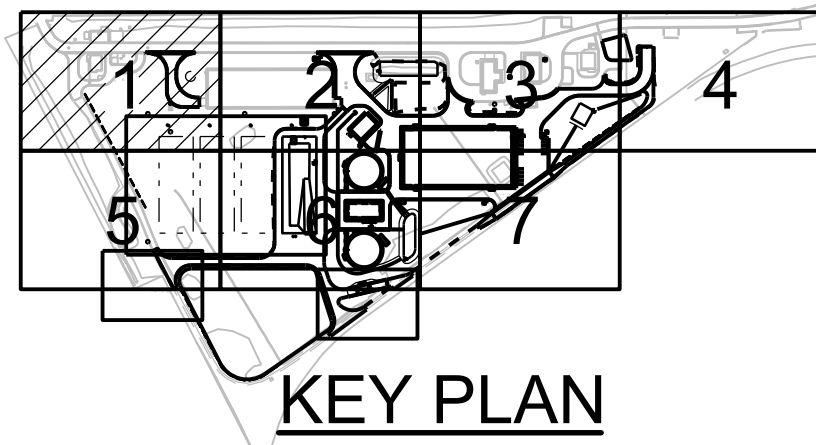
PLOT TIME: 10:39:21 AM

100% DESIGN





- ### SHEET KEYNOTES
1. VALLEY GUTTER SLOPE TO MATCH EXISTING GUTTER SLOPE.
 2. 15" STORM DRAIN, SEE YARD PIPING PLANS.
 3. FINISH GRADE TO BE 4-INCHES BELOW TOP OF CONCRETE. PROVIDE STRAIGHT GRADE OVER 4-FEET AROUND VAULT TO PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT ON ALL SIDES AND MATCH EXISTING GROUND.
 4. FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE DRAWING 008-E-6001.



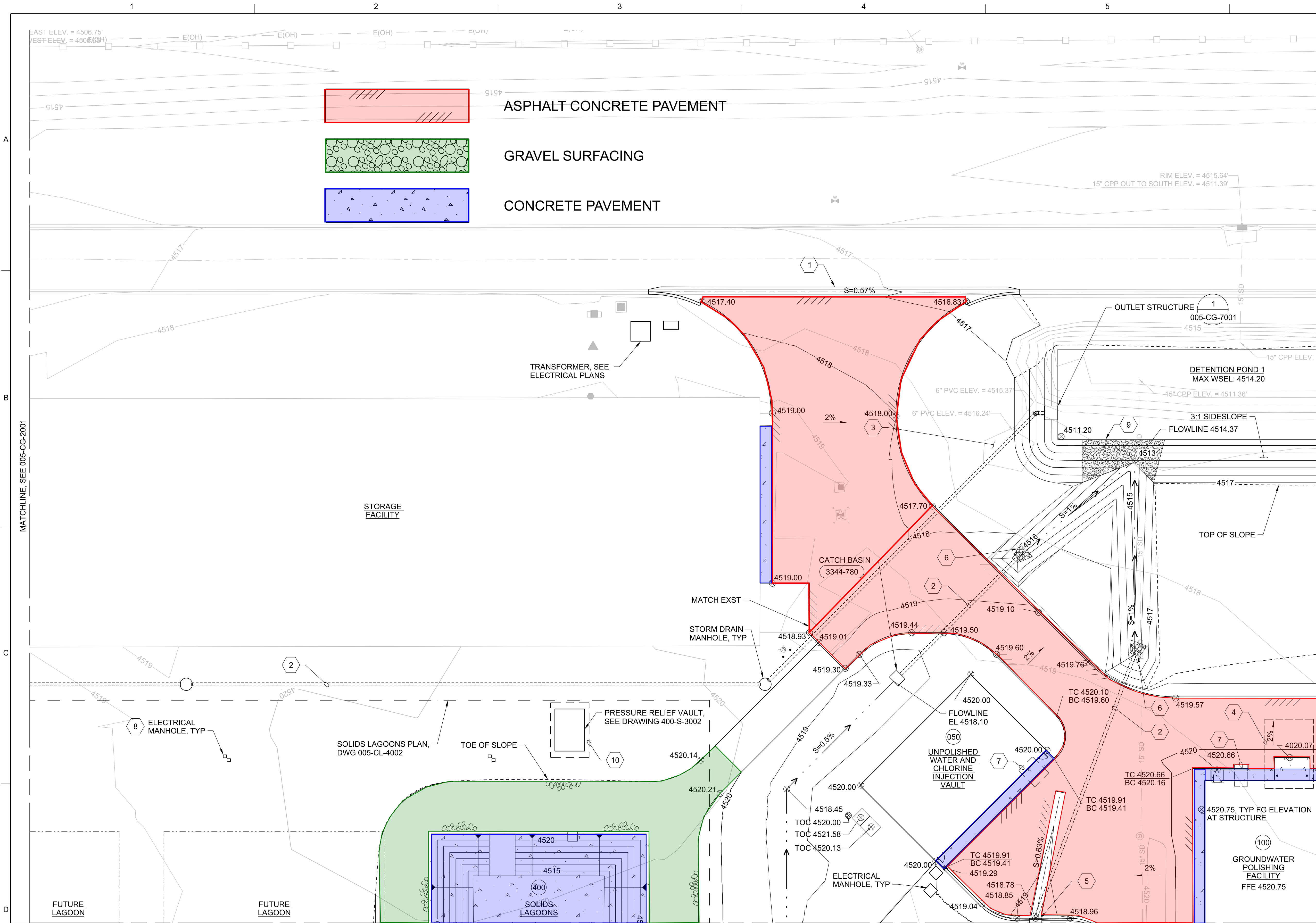
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DR	B CHELONIS								
CHK	E NEPERUD								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

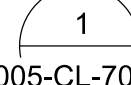
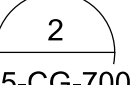
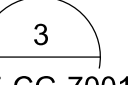
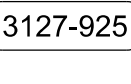


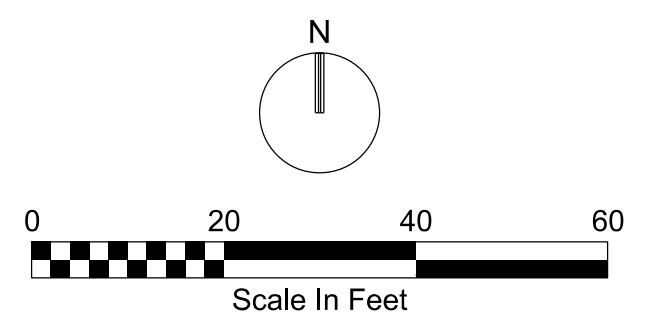
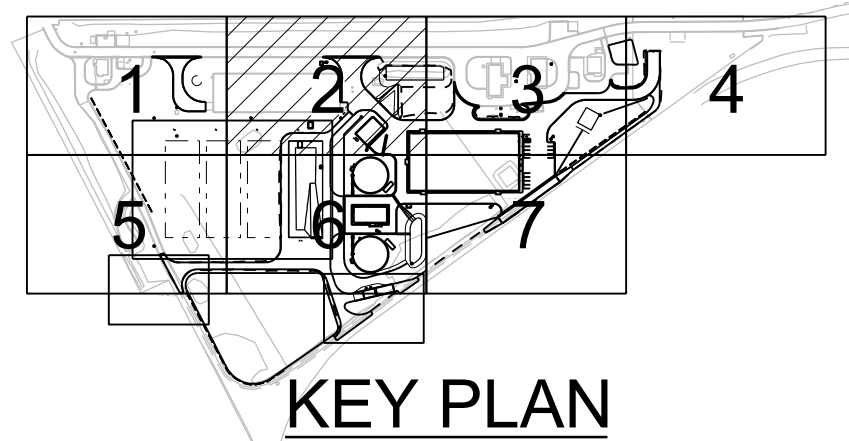
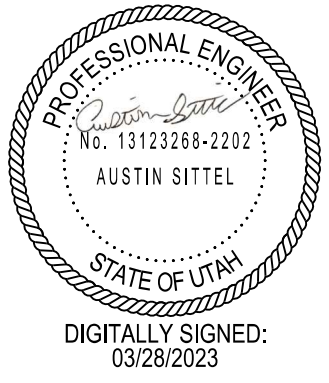
CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 1

SHEET	62
DWG	005-CG-2001
DATE	MARCH 2023
PROJ	W7Y47300



SHEET KEYNOTES

- VALLEY GUTTER SLOPE TO MATCH EXISTING GUTTER SLOPE.
- 15" STORM DRAIN PIPING, SEE YARD PIPING PLANS.
- FILL IN HOLE TO PROVIDE CONTINUOUS DOWNWARD SLOPE BETWEEN PAVEMENT AND EDGE OF DETENTION POND 1.
- ENTRANCE RAMP, SEE , SIMILAR. 005-CL-7002
- MOUNTABLE CURB INLET DETAIL, SEE TOWN OF VINEYARD STANDARD DETAIL 8A.
- OUTLET 1 & 2 ROCK SLOPE PROTECTION, SEE  005-CG-7001 
- SIDEWALK DRAIN, SEE 005-CG-7001, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
- FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE DRAWING 008-E-6001.
- RIPRAP SLOPE PROTECTION, SEE  3127-925
- FINISH GRADE TO BE 4 INCHES BELOW TOP OF CONCRETE. PROVIDE STRAIGHT GRADE OVER 4-FEET AROUND VAULT TO PROVIDE POSITIVE DRAINAGE AWAY FROM VAULT ON ALL SIDES AND MATCH EXISTING GROUND.



DSGN	A SITTEL								
DR	B CHELONIS								
CHK	E NEPERUD								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 2

SHEET	63
DWG	005-CG-2002
DATE	MARCH 2023
PROJ	W7Y47300



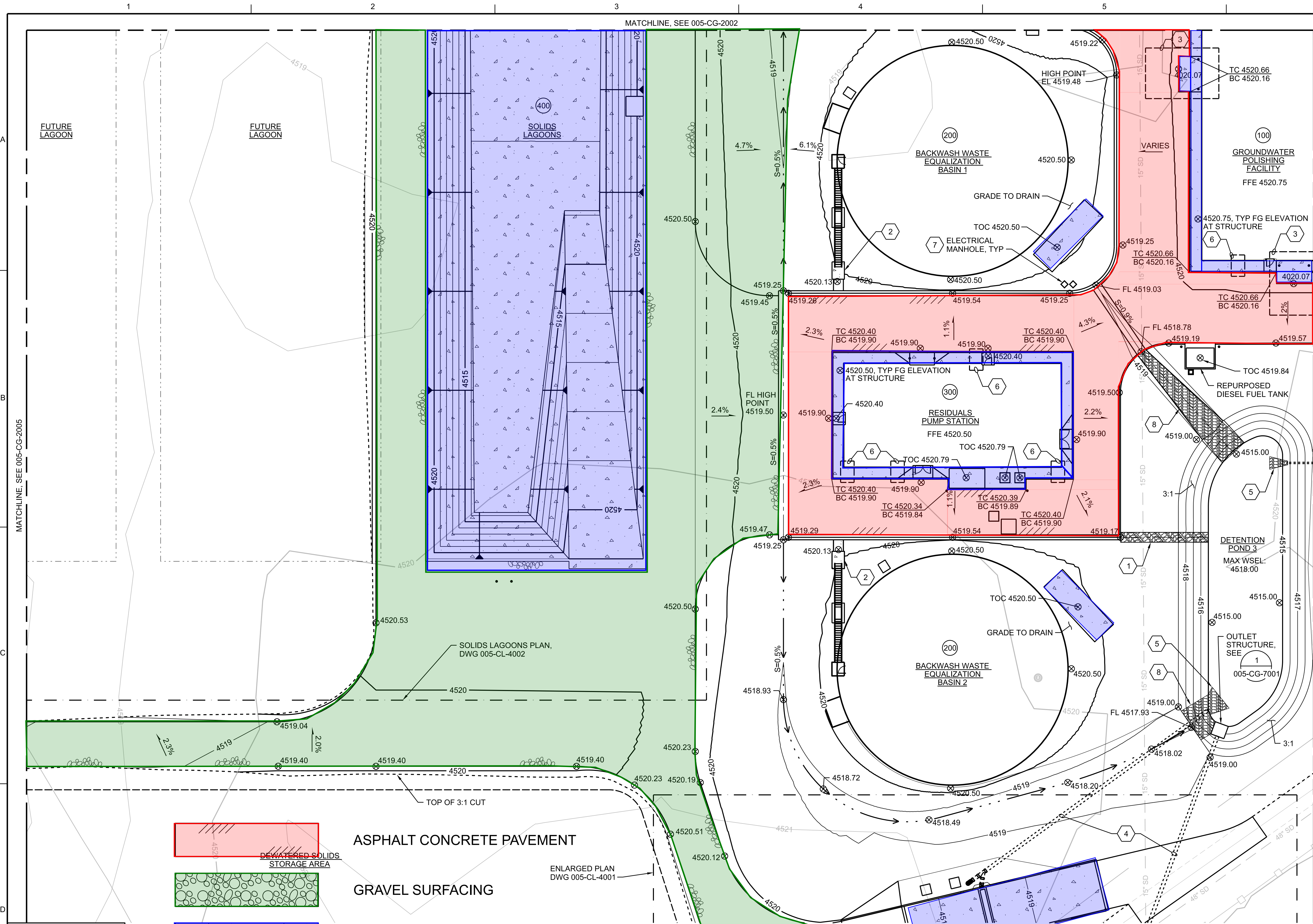
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CHK	E NEPERUD						0 1"
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs

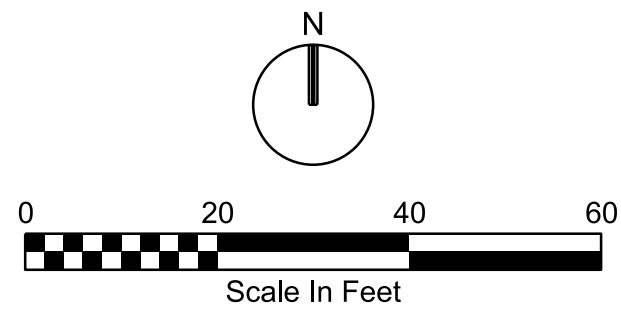
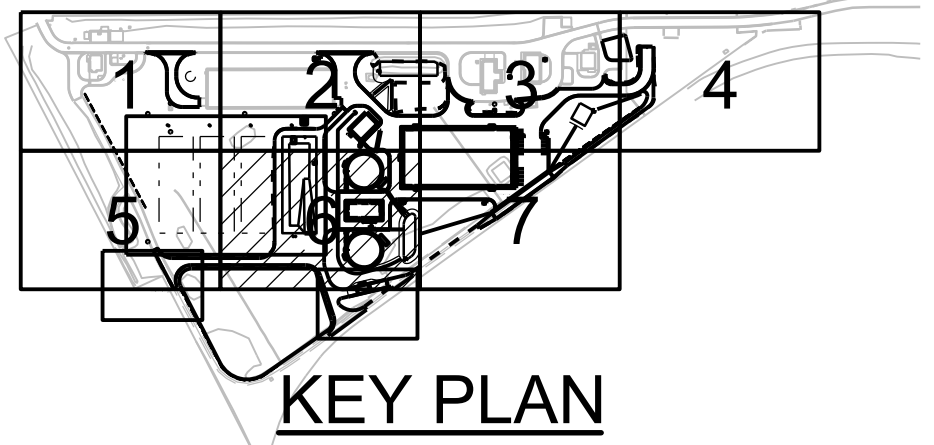


CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 4

SHEET	65
DWG	005-CG-2004
DATE	MARCH 2023
PROJ	W7Y47300



- ### SHEET KEYNOTES
- 4' WIDE RIPRAP SLOPE PROTECTION CENTERED ON GUTTER, SEE (3127-925).
 - FOR ELEVATION, SEE STRUCTURAL.
 - ENTRANCE RAMP, SEE (1), SIMILAR. 005-CL-7002
 - 15" STORM DRAIN PIPING, SEE YARD PIPING.
 - OUTLET 4 ROCK SLOPE PROTECTION, SEE (2) 005-CG-7001
 - SIDEWALK DRAIN, SEE 005-CG-7001. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
 - FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE ELECTRICAL DRAWINGS.
 - RIPRAP SLOPE PROTECTION, SEE (3127-925).



DSGN	A SITTEL								
DR	B CHELONIS								
CHK	E NEPERUD								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

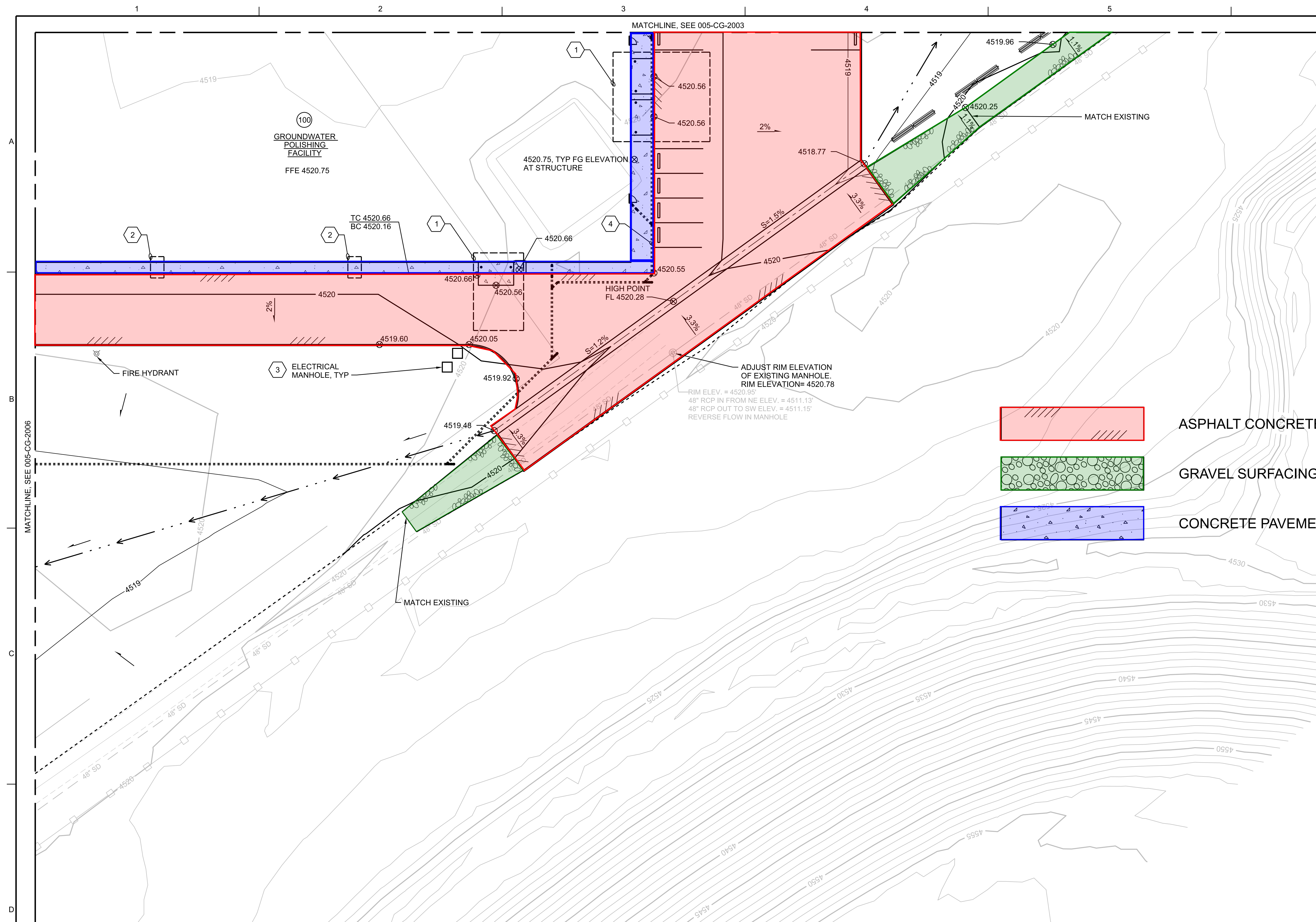
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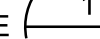
CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 6

SHEET	67
DWG	005-CG-2006
DATE	MARCH 2023
PROJ	W7Y47300

100% DESIGN

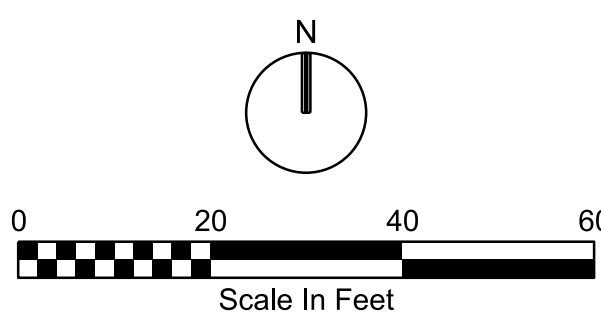
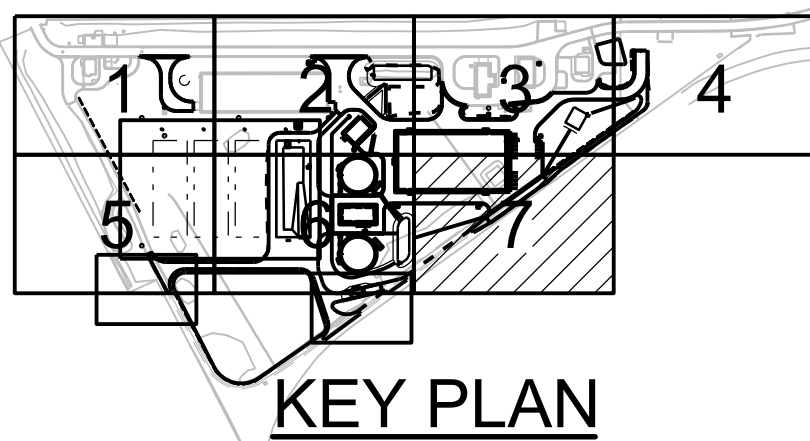


SHEET KEYNOTES

1. ENTRANCE RAMP, SEE  005-CL-7002, SIMILAR.
2. SIDEWALK DRAIN, SEE  005-CG-7001, SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF DOWNSPOUT.
3. FOR COORDINATE CONTROL OF ELECTRICAL MANHOLES, SEE DRAWING 008-E-6001.
4. 6" ROOF DRAIN PIPING, SEE YARD PIPING PLANS.

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DIGITALLY SIGNED
03/28/2023

DSGN	A SITTEL						VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING. 0 ██████████ 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
DR	B CHELONIS						
CHK	E NEPERUD						
APVD	S MENK						
		NO.	DATE	REVISION	BY	APVD	

Jacobs.



CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
GRADING AND DRAINAGE PLAN
AREA 7

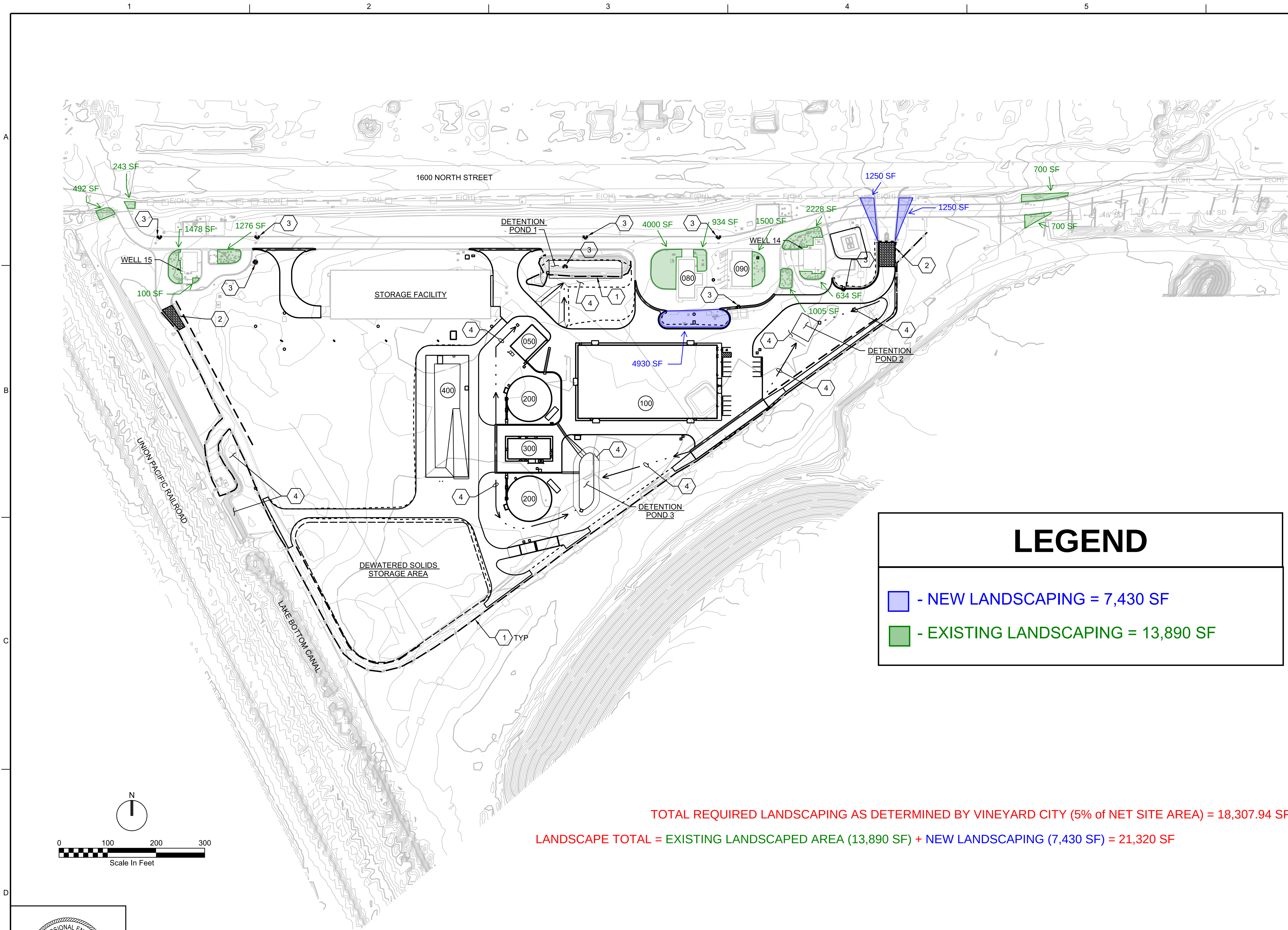
SHEET	68
DWG	005-CG-2007
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 005-CG-2007_W7Y47300.dgn

PLOT DATE: 3/22/2023

PLOT TIME: 10:40:00 AM

100% DESIGN



LEGEND

- NEW LANDSCAPING = 7,430 SF
- EXISTING LANDSCAPING = 13,890 SF

TOTAL REQUIRED LANDSCAPING AS DETERMINED BY VINEYARD CITY (5% of NET SITE AREA) = 18,307.94 SF
LANDSCAPE TOTAL = EXISTING LANDSCAPED AREA (13,890 SF) + NEW LANDSCAPING (7,430 SF) = 21,320 SF

GENERAL NOTES

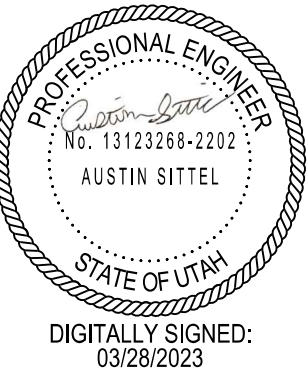
- PROVIDE A 2" THICK SURFACING COURSE LAYER AT TRAILERS AND PARKING AREAS TO MINIMIZE DUST AND MUD.
- AS NECESSARY, PROVIDE TEMPORARY CONCRETE WASHOUT FACILITY. SEE 005-CE-2002
- CONTRACTOR TO PROVIDE EMERGENCY SPILL KIT ONSITE AS SPECIFIED IN SPECIFICATION SECTION 01 57 13.
- INSPECT AND MAINTAIN ALL EROSION CONTROL MEASURES DURING CONSTRUCTION AS NECESSARY TO ENSURE THEIR CONTINUED EFFECTIVENESS UNTIL SOILS BECOME STABILIZED.
- PROVIDE, INSPECT, AND MAINTAIN TEMPORARY EROSION CONTROL BMPs AS SHOWN. FINAL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR AND USPDs PERMIT. CONTRACTOR SHALL PROVIDE ADDITIONAL BMPs AS REQUIRED DEPENDING ON PERFORMANCE IN THE FIELD AND AS SITE CONDITIONS CHANGE TO SATISFY THE PERMIT REQUIREMENTS.
- DUST CONTROL SHALL BE EMPLOYED AT ALL TIMES PRIOR TO TEMPORARY OR FINAL STABILIZATION. ALL INACTIVE AREAS SHALL BE STABILIZED IN NO LESS THAN 14 DAYS. FOR TEMPORARY STOCKPILE COVERING. SEE 005-CE-2003
- GRAVEL CONSTRUCTION ENTRANCE REQUIRED AT LOCATIONS OF CONSTRUCTION ENTRY ONTO EXISTING PAVEMENT.
- SWPPP BMPs REQUIRED TO PROTECT EXISTING SD INLETS AND DRAINAGE WAYS.

SHEET KEYNOTES

- INSTALL SILT FENCE A MINIMUM OF 2' OUTSIDE OF GRADING LIMITS, OR EXISTING ROAD. ALL NEW WORK TO STAY WITHIN LIMITS OF SILT FENCE. SEE 005-CE-2003
- GRAVEL CONSTRUCTION ENTRANCE, SEE 005-CE-2001
- INSTALL INLET PROTECTION EROSION CONTROL MEASURES AROUND EXISTING CATCH BASINS. SEE 005-CE-2001
- UTILIZE FIBER ROLLS AS TEMPORARY SLOPE STABILIZATION UNTIL CONSTRUCTION COMPLETION. SEE 005-CE-2002

FACILITY LEGEND

- UNPOLISHED WATER AND CHLORINE INJECTION VAULT
- VINEYARD CHLORINATION FACILITY
- VINEYARD CONTROLS FACILITY
- GROUNDWATER POLISHING FACILITY
- BACKWASH WASTE EQUALIZATION BASINS
- RESIDUALS PUMP STATION
- SOLIDS LAGOONS



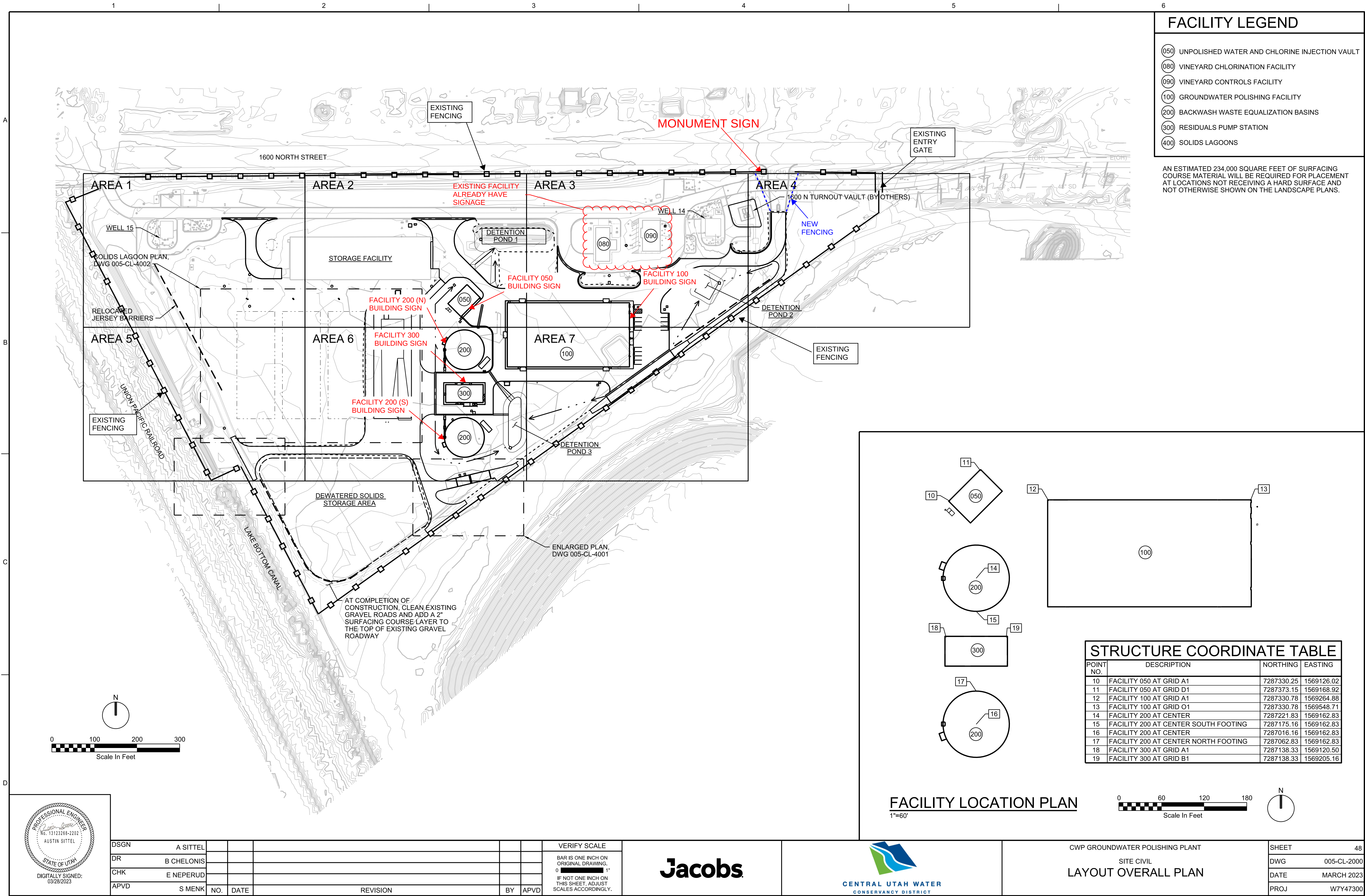
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CHK	E NEPERUD					0 1"
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
EROSION CONTROL OVERALL PLAN

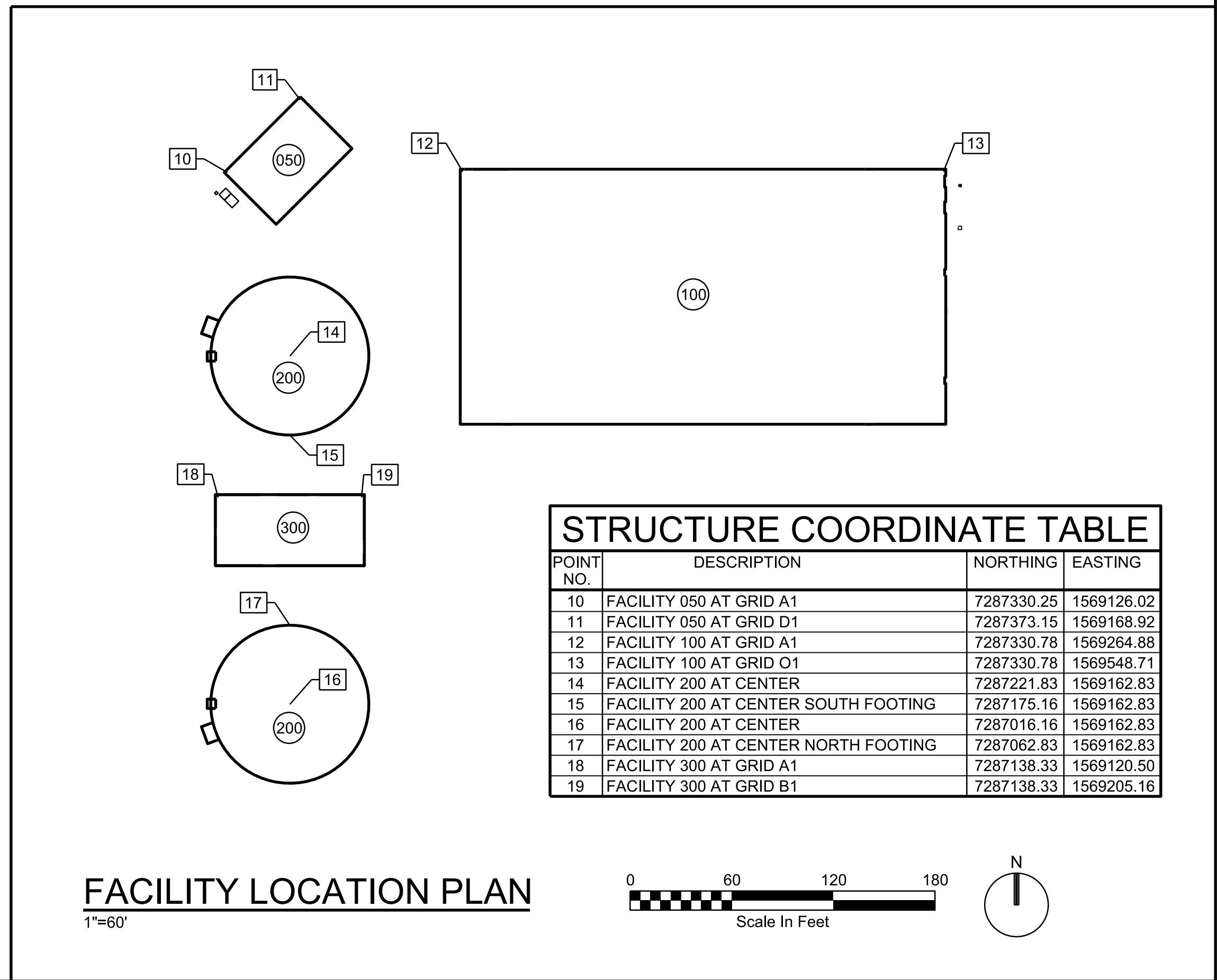
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DWG	005-CE-2000
DATE	MARCH 2023
PROJ	W7Y47300



FACILITY LEGEND

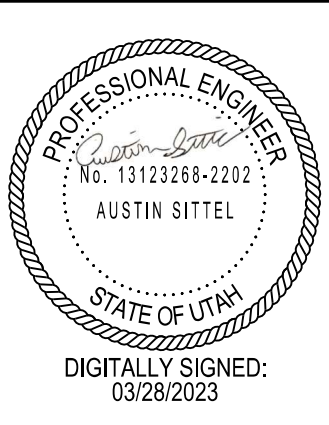
- 050 UNPOLISHED WATER AND CHLORINE INJECTION VAULT
- 080 VINEYARD CHLORINATION FACILITY
- 090 VINEYARD CONTROLS FACILITY
- 100 GROUNDWATER POLISHING FACILITY
- 200 BACKWASH WASTE EQUALIZATION BASINS
- 300 RESIDUALS PUMP STATION
- 400 SOLIDS LAGOONS

AN ESTIMATED 234,000 SQUARE FEET OF SURFACING COURSE MATERIAL WILL BE REQUIRED FOR PLACEMENT AT LOCATIONS NOT RECEIVING A HARD SURFACE AND NOT OTHERWISE SHOWN ON THE LANDSCAPE PLANS.



STRUCTURE COORDINATE TABLE

POINT NO.	DESCRIPTION	NORTHING	EASTING
10	FACILITY 050 AT GRID A1	7287330.25	1569126.02
11	FACILITY 050 AT GRID D1	7287373.15	1569168.92
12	FACILITY 100 AT GRID A1	7287330.78	1569264.88
13	FACILITY 100 AT GRID O1	7287330.78	1569548.71
14	FACILITY 200 AT CENTER	7287221.83	1569162.83
15	FACILITY 200 AT CENTER SOUTH FOOTING	7287175.16	1569162.83
16	FACILITY 200 AT CENTER	7287016.16	1569162.83
17	FACILITY 200 AT CENTER NORTH FOOTING	7287062.83	1569162.83
18	FACILITY 300 AT GRID A1	7287138.33	1569120.50
19	FACILITY 300 AT GRID B1	7287138.33	1569205.16



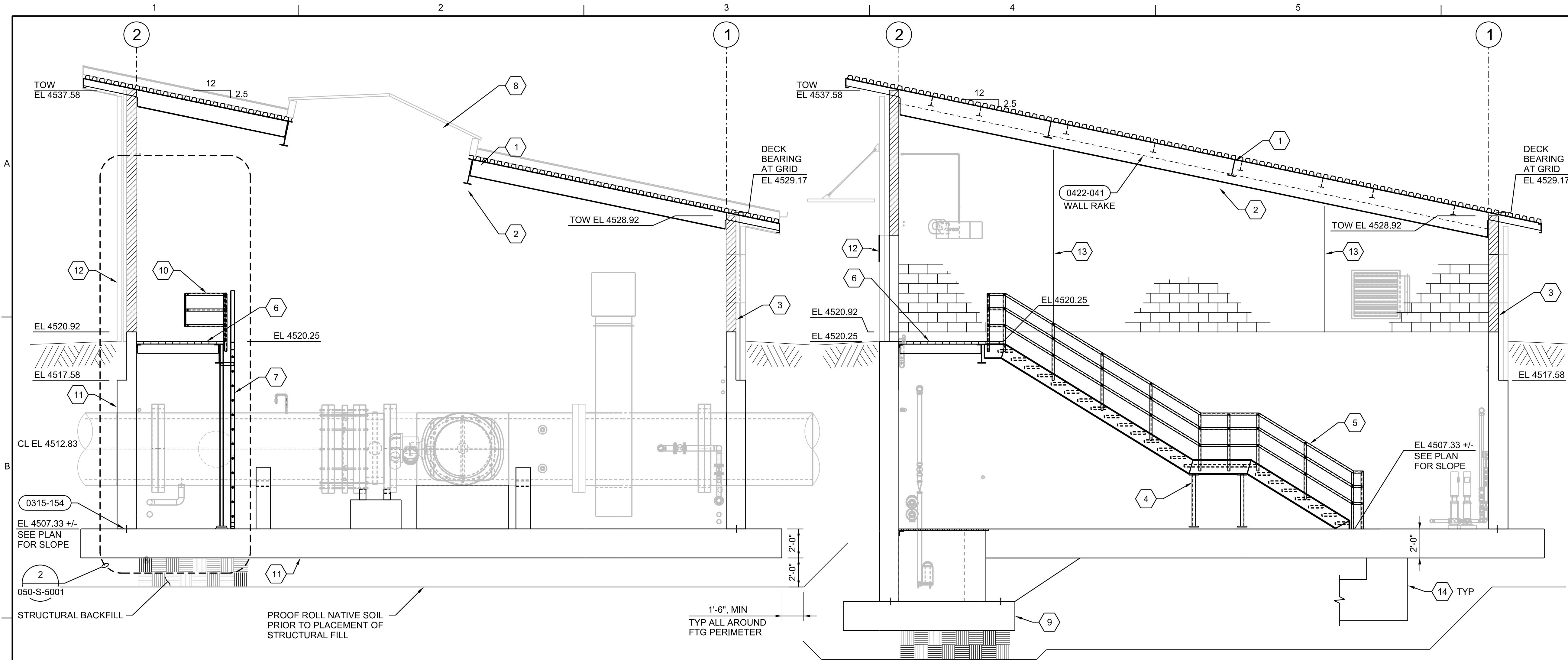
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DR	B CHELONIS								
CHK	E NEPERUD								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

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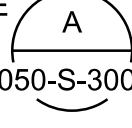


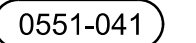
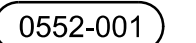
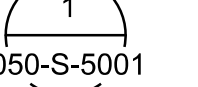
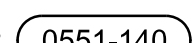
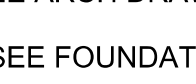
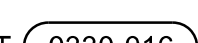
CWP GROUNDWATER POLISHING PLANT
SITE CIVIL
LAYOUT OVERALL PLAN

SHEET	48
DWG	005-CL-2000
DATE	MARCH 2023
PROJ	W7Y47300



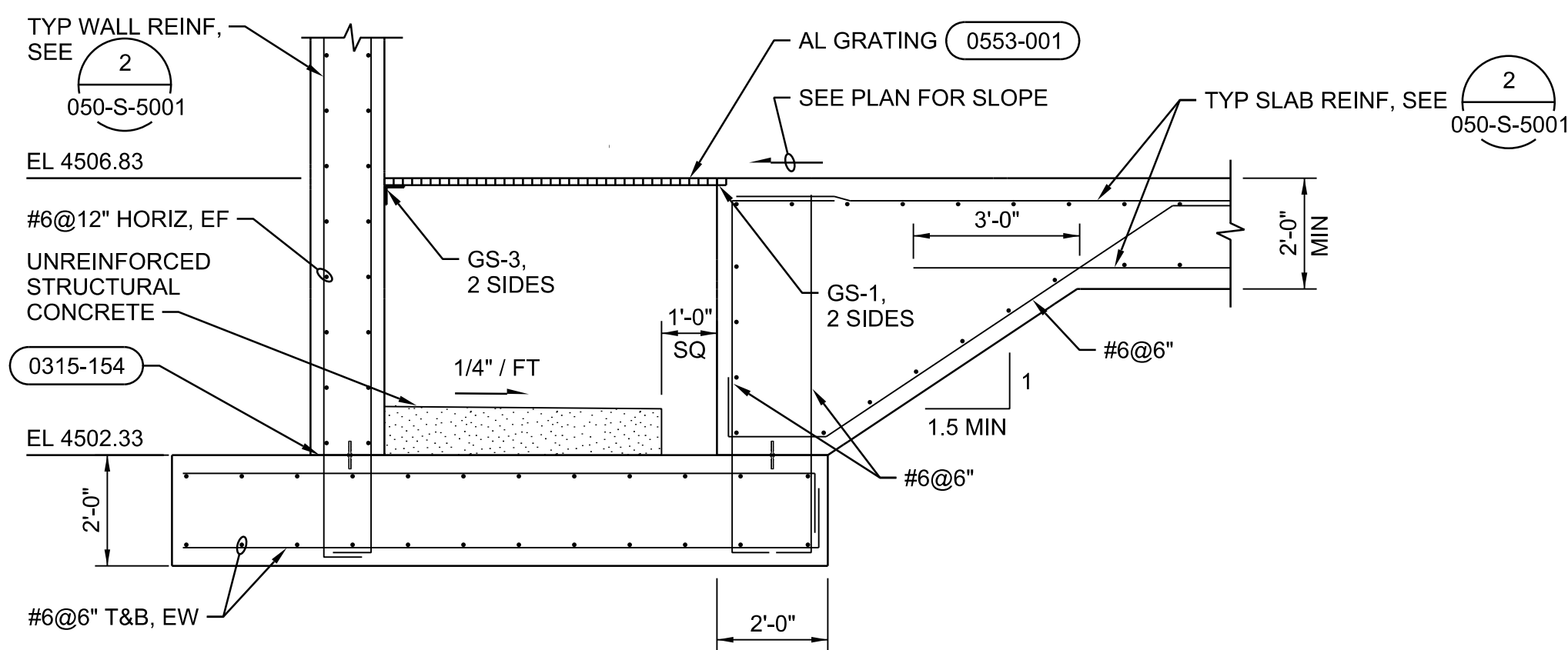
- ### GENERAL NOTES

 - FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
 - FOR SUBGRADE AND BACKFILL REQUIREMENTS, SEE  050-S-3001
- ### SHEET KEYNOTES

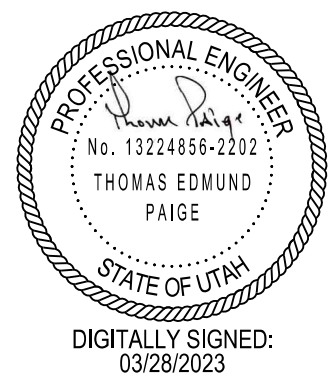
 - METAL DECK
 - FOR ROOF FRAMING, SEE DRAWING 050-S-2003
 - 8" CMU WALLS
 - GALV STEEL STAIRS 
 - AL RAILING 
 - GRATING WALKWAY, SEE  050-S-5001
 - SST LADDER  TYPE A.
 - 12"x26" REMOVABLE SKYLIGHT, FOR ADDITIONAL INFORMATION SEE ARCH DRAWINGS.
 - SUMP BEYOND, SEE FOUNDATION PLAN
 - 3'-0" RAILING GATE 
 - FOR REINF SEE  050-S-5001
 - VENEER, SEE ARCH DWGS.
 - MASONRY CONTROL JOINT, SEE 050-S-2002.
 - CONCRETE PIPE ENCASEMENT 

B SECTION
1/4"=1'-0"
050-S-2001
050-S-2002
050-S-2003

C SECTION
1/4"=1'-0"
050-S-2001
050-S-2002
050-S-2003



D SECTION
3/8"=1'-0"
050-S-2001



DSGN	C WEBSTER					VERIFY SCALE
DR	B CLEGG					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	T PAIGE					0
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
UNPOLISHED WATER AND CHLORINE INJECTION VAULT
STRUCTURAL SECTIONS

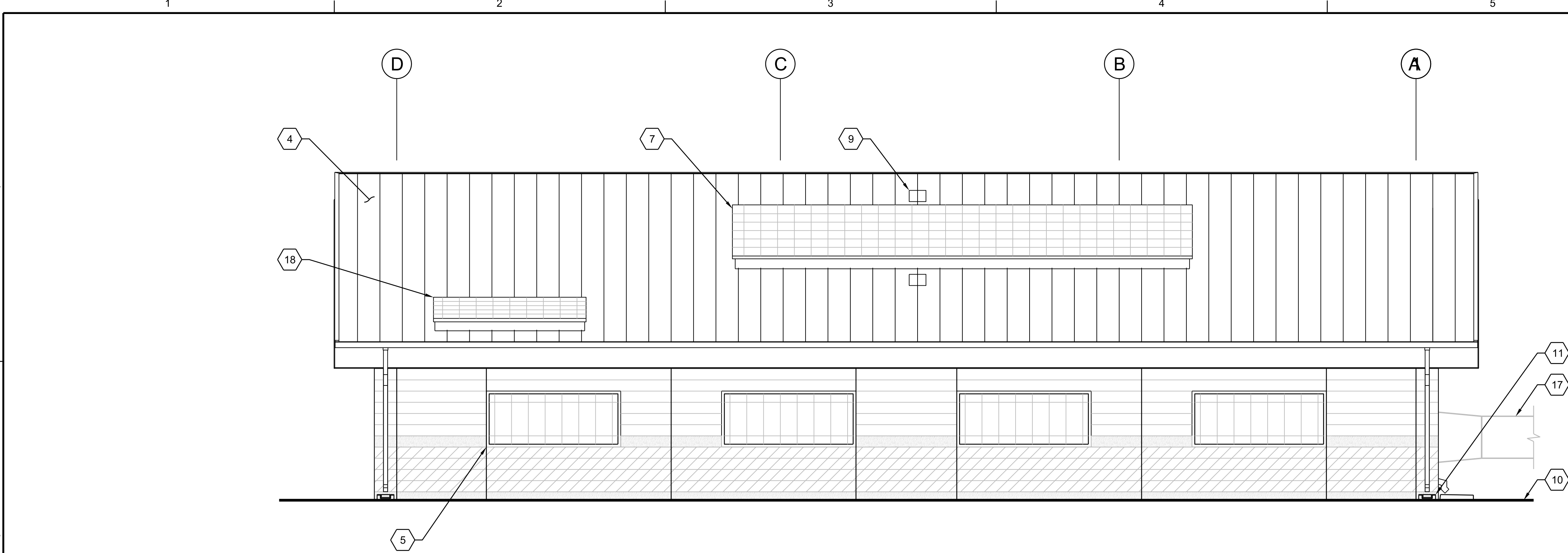
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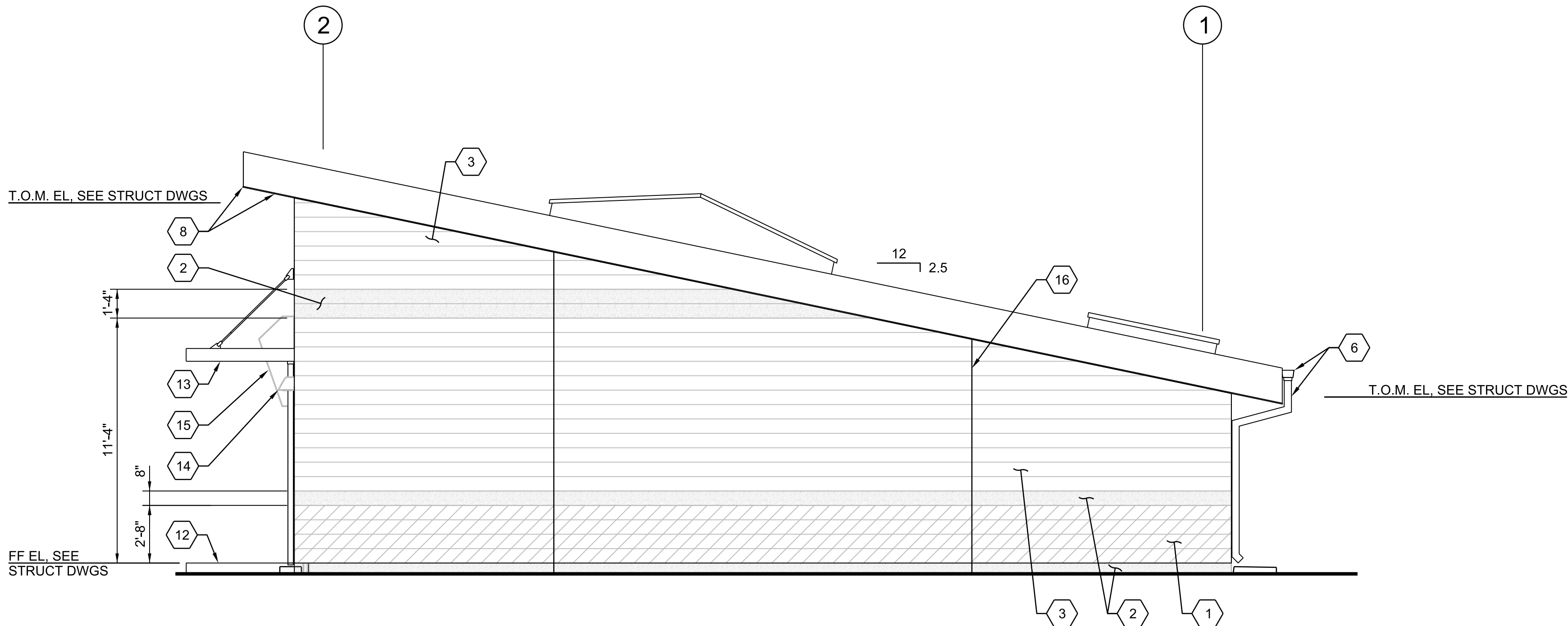
PLOT DATE:

PLOT TIME:

100% DESIGN



1 NORTH ELEVATION
1/4"=1'-0"
050-A-2001
050-A-2002



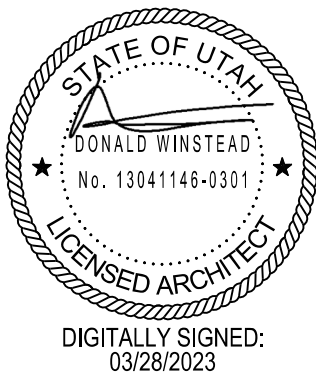
2 EAST ELEVATION
1/4"=1'-0"
050-A-2001
050-A-2002

GENERAL NOTES

1. FOR GENERAL ARCHITECTURAL NOTES, MATERIAL SYMBOLS AND LEGEND, SEE DRAWING 001-GA-0001.

SHEET KEYNOTES

1. SPLIT-FACE CMU VENEER (TCMUV-1), TYP.
2. SMOOTH-FACE CMU VENEER (CMUV-1), TYP.
3. SMOOTH-FACE CMU VENEER (CMUV-2), TYP.
4. STANDING SEAM SHEET METAL ROOFING SYSTEM OVER SELF-ADHERING UNDERLAYMENT ON RIGID INSULATION (R-30) OVER METAL DECKING, TYP.
5. TRANSLUCENT WALL PANEL, TYP.
6. METAL GUTTER AND DOWNSPOUT, PROVIDE DE-ICING HEATING TAPE IN ALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SECTION 40 05 33 PIPE HEAT TRACING, TYP.
7. REMOVABLE SKYLIGHT (PYRAMID), TRANSLUCENT ROOF PANEL SKYLIGHT (TRP).
8. METAL FASCIA AND SOFFIT, TYP.
9. FALL PROTECTION, SEE STRUCTURAL DRAWINGS, TYP.
10. FINISH GRADE, SEE CIVIL DRAWINGS, TYP.
11. CONCRETE SPLASHBLOCK, TYP.
12. CONCRETE SIDEWALK, SEE CIVIL DRAWINGS, TYP.
13. PREFABRICATED METAL CANOPY, SEE DESIGN DETAIL (0742-502) TYP.
14. LUMINAIRE, SEE ELECTRICAL DRAWINGS, TYP.
15. FAN, SEE MECHANICAL DRAWINGS.
16. CMU VENEER CONTROL JOINT (CVCJ), FOR LOCATION SEE PLANS. SEE DESIGN DETAIL (0421-301) TYP.
17. DUCT PENETRATION, SEE MECHANICAL DRAWINGS, CONTRACTOR TO COORDINATE LOCATION AND OPENING DIMENSIONS WITH APPROVED MECHANICAL EQUIPMENT.
18. REMOVABLE SKYLIGHT (FLAT), TRANSLUCENT ROOF PANEL (TRP).



DSGN	E GRAY / D WINSTEAD							VERIFY SCALE
DR	M COLLINS							BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	G KIRSTEN							0 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	S MENK	NO.	DATE	REVISION	BY	APVD		

Jacobs



CWP GROUNDWATER POLISHING PLANT
UNPOLISHED WATER AND CHLORINE INJECTION VAULT
ARCHITECTURAL
ELEVATIONS

SHEET	197
DWG	050-A-3001
DATE	MARCH 2023
PROJ	W7Y47300

INTERIOR FINISH SCHEDULE

ABBREVIATIONS:										NOTES:	
CLR	CLEAR	EXP	EXPOSED METAL STRUCTURE	MATL	MATERIAL	NO. 1		NUMBERS IN THE FINISH COLUMN REFER TO PAINT SYSTEMS IN SPECIFICATION SECTION 09 90 00.			
CMU	CONCRETE MASONRY UNIT	FNSH	FINISH	MET	METAL	NO. 2		CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.			
COL	COLOR	GALV	HOT DIPPED GALVANIZED	SLR	SEALER	NO. 3		FOR EXTERIOR FINISHES AND COLORS, SEE EXTERIOR FINISH SCHEDULE ON THIS DRAWING.			
CONC	CONCRETE	HGT	HEIGHT								

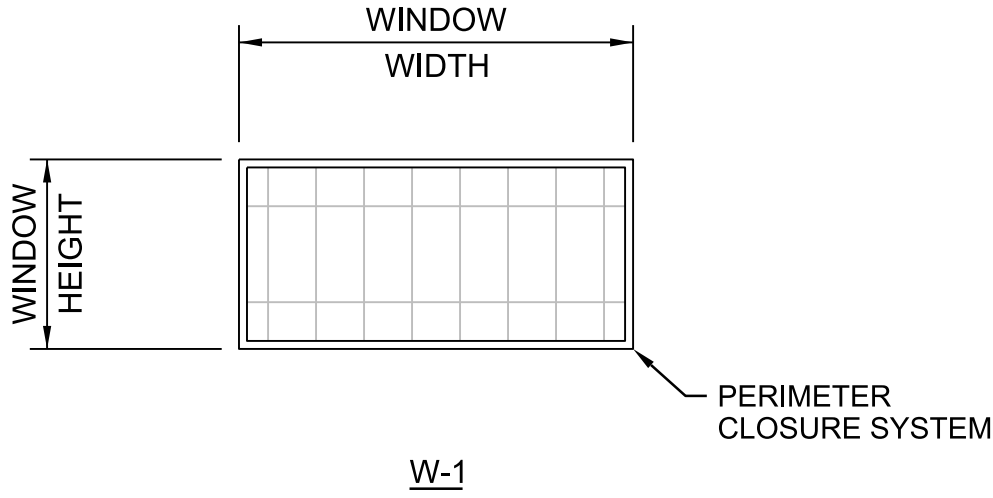
SPACE		FLOOR			BASE AND WAINSCOT					TYPICAL WALL			OTHER WALL			CEILING				MISCELLANEOUS				OTHER REQUIREMENTS
NO.	NAME	SUB FL	FINISH	COL	HGT	MATL	FINISH	COL	WALLS	MATL	FINISH	COL	MATL	FINISH	COL	HGT	MATL	FINISH	COL	ITEM	MATL	FINISH	COL	
50101	CHLORINE INJECTION VAULT	CONC	SLR	CLR	13'-5"	CONC	SLR	CLR	ALL	CONC	SLR	CLR	CMU	117	P-1	VARIES	EXP	5	P-2	ROOF DECK & CLOSURES	GALV MET	10, 5	P-2	---

COLOR LIST			
NOTES:			
NO. 1	COLOR SELECTIONS FOR THIS PROJECT MAY BE NOTED IN DOOR AND HARDWARE SCHEDULE, WINDOW SCHEDULE, INTERIOR FINISH SCHEDULE, EXTERIOR FINISH SCHEDULE, LOUVER SCHEDULE, PIPING SCHEDULE AND ON THE DRAWINGS BY THE LETTER-NUMBER COMBINATION IN THE MARK COLUMN OF THIS LIST.		
NO. 2	SOME COLOR SELECTIONS MAY BE MADE IN VARIOUS SPECIFICATION SECTIONS.		
NO. 3	VERIFY COLORS WITH OWNER BEFORE BEGINNING WORK. IF A COLOR SELECTION IS NOT MADE, REQUEST ONE FROM THE ARCHITECT.		
NO. 4	COLOR TO MATCH EXISTING CONTROLS FACILITY.		
MARK	MATERIAL	MANUFACTURER (BASIS OF DESIGN OR APPROVED EQUAL)	COLOR (NOTE 3)
WALLS			
W-1	SPLIT-FACE CMU VENEER (TCMUJ-1)	BASALITE	655, NOTE 4
W-2	SMOOTH-FACE CMU VENEER (CMUV-1)	BASALITE	655, NOTE 4
W-3	SMOOTH-FACE CMU VENEER (CMUV-2)	BASALITE	630, NOTE 4
W-4	CMU VENEER MORTAR	BASALITE	619, NOTE 4
OPENINGS			
O-1	LOUVER	RUSKIN	546, DARK BRONZE
O-2	TRANSLUCENT WALL PANEL FRAMES	KALWALL	85, BRONZE
O-3	REMOVABLE TRANSLUCENT ROOF PANEL SKYLIGHT (TRP) FRAMES	KALWALL	85, DARK BRONZE
MISCELLANEOUS			
M-1	STANDING SEAM SHEET METAL ROOFING AND SOFFIT	MBCI	BURNISHED SLATE
M-2	GUTTER AND DOWNSPOUTS	MBCI	BURNISHED SLATE
M-3	PREFABRICATED METAL CANOPY	MAPES	MAPES BRONZE
M-4	DOWNSPOUT BOOT	AS SPECIFIED	MATCH DOWNSPOUT AND GUTTERS (M-2)
PAINT			
P-1	PAINT (WALLS)	SHERWIN-WILLIAMS	SW7013 - IVORY LACE
P-2	PAINT (CEILINGS)	SHERWIN-WILLIAMS	SW7003 - TOQUE WHITE
P-3	PAINT (HM DOORS AND FRAMES)	SHERWIN-WILLIAMS	SW6152 - SUPERIOR BRONZE

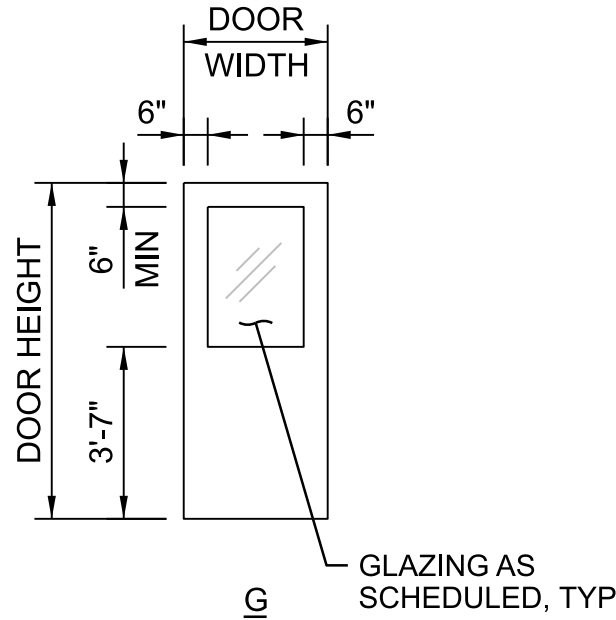
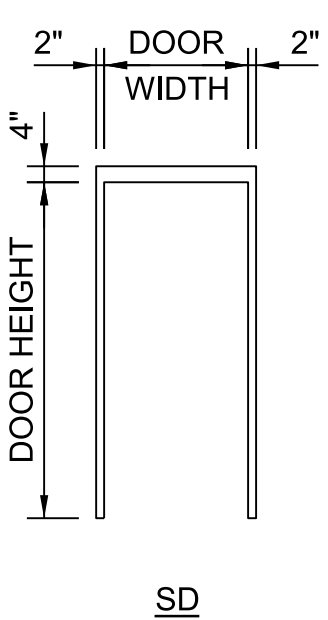
EXTERIOR FINISH SCHEDULE		
ITEM / MATERIAL	FINISH	COLOR
SPLIT-FACE CMU VENEER (TCMUJ-1)	FACTORY / WATER REPELLENT SEALER	W-1 / W-4
SMOOTH-FACE CMU VENEER (CMUV-1)	FACTORY / WATER REPELLENT SEALER	W-2 / W-4
SMOOTH-FACE CMU VENEER (CMUV-2)	FACTORY / WATER REPELLENT SEALER	W-3 / W-4
STANDING SEAM SHEET METAL ROOFING AND SOFFIT	FACTORY	M-1
GUTTER AND DOWNSPOUTS	FACTORY	M-2
LUMNAIRES	FACTORY	DARK BRONZE
PREFABRICATED METAL CANOPY	FACTORY	M-3
REMOVABLE TRANSLUCENT ROOF PANEL SKYLIGHT (TRP)	FACTORY	O-3
WALL MOUNTED FAN	FACTORY	ARCHITECTURAL BRONZE
MISCELLANEOUS EXPOSED STEEL (INCLUDING LEDGERS AT CMU VENEER OPENINGS)	PS-5	P-3
DOWNSPOUT BOOT	PS-10	M-4

M-3	PREFABRICATED METAL CANOPY	MAPES	MAPES BRONZE
M-4	DOWNSPOUT BOOT	AS SPECIFIED	MATCH DOWNSPOUT AND GUTTERS (M-2)
PAINT			
P-1	PAINT (WALLS)	SHERWIN-WILLIAMS	SW7013 - IVORY LACE
P-2	PAINT (CEILINGS)	SHERWIN-WILLIAMS	SW7003 - TOQUE WHITE
P-3	PAINT (HM DOORS AND FRAMES)	SHERWIN-WILLIAMS	SW6152 - SUPERIOR BRONZE

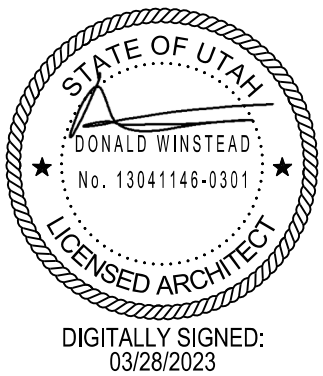
LOUVER SCHEDULE													OTHER REQUIREMENTS			
NO.	SIZE		LOUVER				DETAILS			SILLS						
	WIDTH	HEIGHT	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	MATL	COL	HEIGHT				
050L-01	5'-4"	5'-4"	AL	DB	FCTY	O-1	0890-003	0890-005	0890-004	AL	O-1	EL 4527.68				

WINDOW TYPES	
	

WINDOW SCHEDULE																		
WINDOW TYPE ABBREVIATIONS:				OTHER ABBREVIATIONS:								NOTES:						
TWP TRANSLUCENT WALL PANEL				AL ALUMINUM								NO. 1 SEE THIS DRAWING FOR WINDOW TYPES.						
				EL ELEVATION								NO. 2 FOR FRAME DETAILS, SEE STANDARD DETAILS.						
				FCTY FACTORY								NO. 3 CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.						
				FG FIBERGLASS FACE SHEET														
OPENING												BLINDS		SILLS			OTHER REQUIREMENTS	
NO.	SIZE		WINDOW		FRAME				DETAILS									
	WIDTH	HEIGHT	TYPE	GLASS	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	YES / NO	COLOR	MATL	COLOR	HEIGHT		
050W-01	8'-0"	3'-4"	TWP	FG	AL	W-1	FCTY	O-2	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4522.91		
050W-02	8'-0"	3'-4"	TWP	FG	AL	W-1	FCTY	O-2	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4522.91		
050W-03	8'-0"	3'-4"	TWP	FG	AL	W-1	FCTY	O-2	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4522.91		
050W-04	8'-0"	3'-4"	TWP	FG	AL	W-1	FCTY	O-2	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4522.91		

DOOR TYPES		DOOR FRAME TYPES	
			

DOOR AND HARDWARE SCHEDULE																			
ABBREVIATIONS:												NOTES:							
COL	COLOR											NO. 1	SEE THIS SHEET FOR DOOR AND FRAME TYPES.						
EXT	EXTERIOR											NO. 2	FOR DOOR DETAILS, SEE STANDARD DETAILS.						
FCTY	FACTORY											NO. 3	NUMBER CODE IN HARDWARE SET COLUMN REFERS TO HARDWARE SETS IN SPECIFICATION SECTION 08 71 00.						
HM	HOLLOW METAL											NO. 4	NUMBERS IN FNSH COLUMN REFER TO PAINT SYSTEMS IN SPECIFICATION SECTION 09 90 00.						
IG-C	CLEAR INSULATING GLASS											NO. 5	CODES IN COL COLUMN REFER TO TO COLOR LIST ON THIS DRAWING.						
MATL	MATERIAL											NO. 6	FOR GLASS TYPES, SEE SPECIFICATION SECTION 08 80 00.						
												NO. 7	MAXIMUM EFFORT TO OPEN INTERIOR/EXTERIOR DOOR IS 5 POUNDS.						
OPENING												HARDWARE			FIRE PROTECTION		OTHER REQUIREMENTS		
NO.	SIZE		DOOR				FRAME				DETAILS			SET NO. KEY SIDE		RATING			
	WIDTH	HEIGHT	CONSTR	TYPE	GLASS	FINISH	COL	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL					
050101A	3'-0"	7'-0"	HM	G	IG-C	5	P-1	HM	SD	5	P-3	0811-005	0811-006	0871-001	14	EXT	---	CARD READER / DOOR POSITION SWITCH	
050101B	3'-0"	7'-0"	HM	G	IG-C	5	P-1	HM	SD	5	P-3	0811-005	0811-006	0871-001	14	EXT	---	CARD READER / DOOR POSITION SWITCH	



DSGN	S GRIEBEL						
DR	S GRIEBEL						
CHK	D WINSTEAD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 [redacted] 4"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
RENDERING

SHEET	249
DWG	100-R-0001
DATE	MARCH 2023
PROJ	W7Y47300

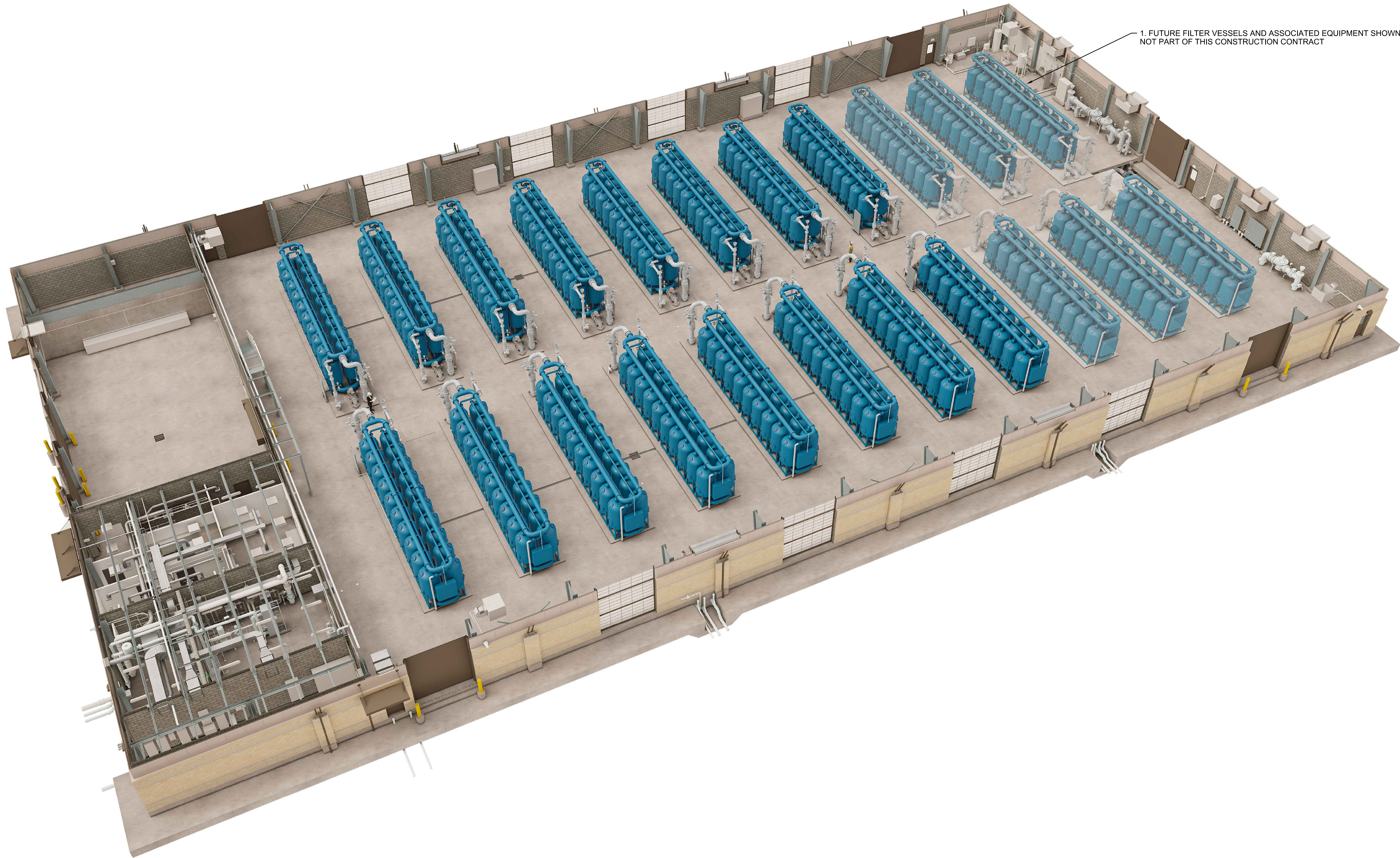
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A

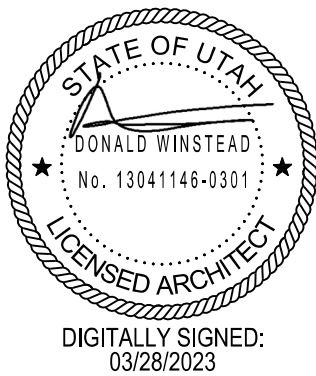
B

C

D



1. FUTURE FILTER VESSELS AND ASSOCIATED EQUIPMENT SHOWN HERE NOT PART OF THIS CONSTRUCTION CONTRACT



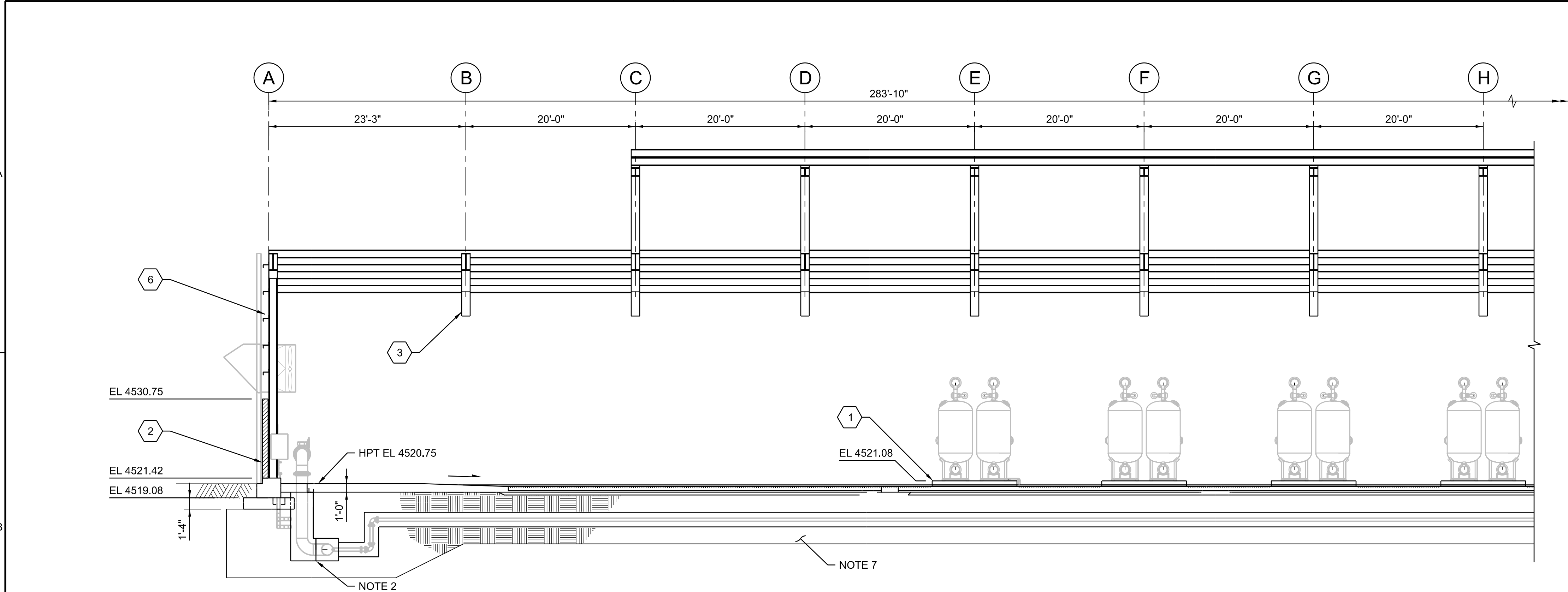
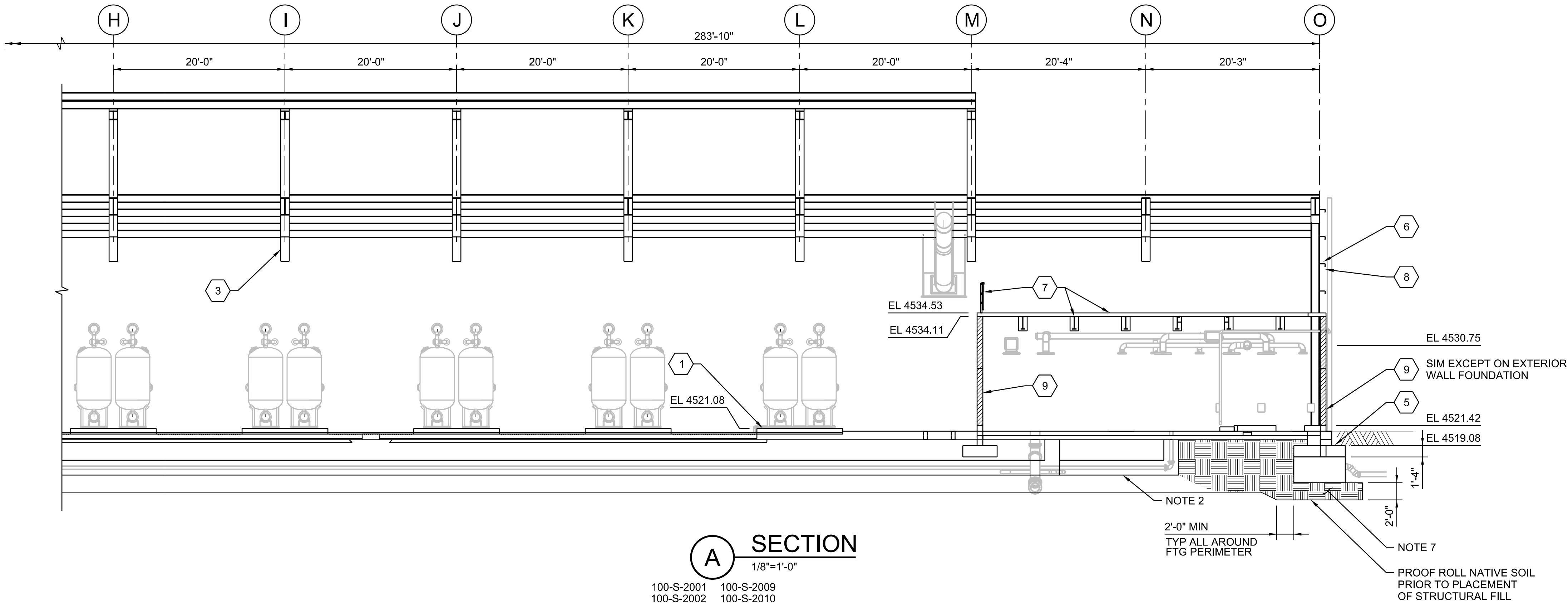
DSGN	S GRIEBEL						
DR	S GRIEBEL						
CHK	D WINSTEAD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 [redacted] 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
RENDERING

SHEET	250
DWG	100-R-0002
DATE	MARCH 2023
PROJ	W7Y47300



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

100-S-2001 100-S-2009
100-S-2002 100-S-2010
100-S-2003 100-S-2011
100-S-2004 100-S-2012
100-S-2005 100-S-2013
100-S-2006 100-S-2014
100-S-2007 100-S-2015
100-S-2008

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.

Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
**STRUCTURAL
SECTION**

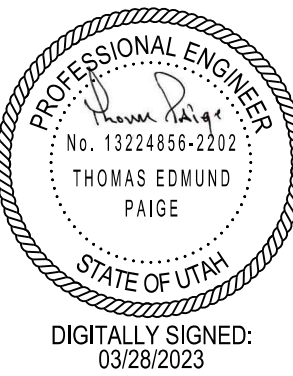
SHEET 266
DWG 100-S-3001
DATE MARCH 2023
PROJ W7Y47300

GENERAL NOTES

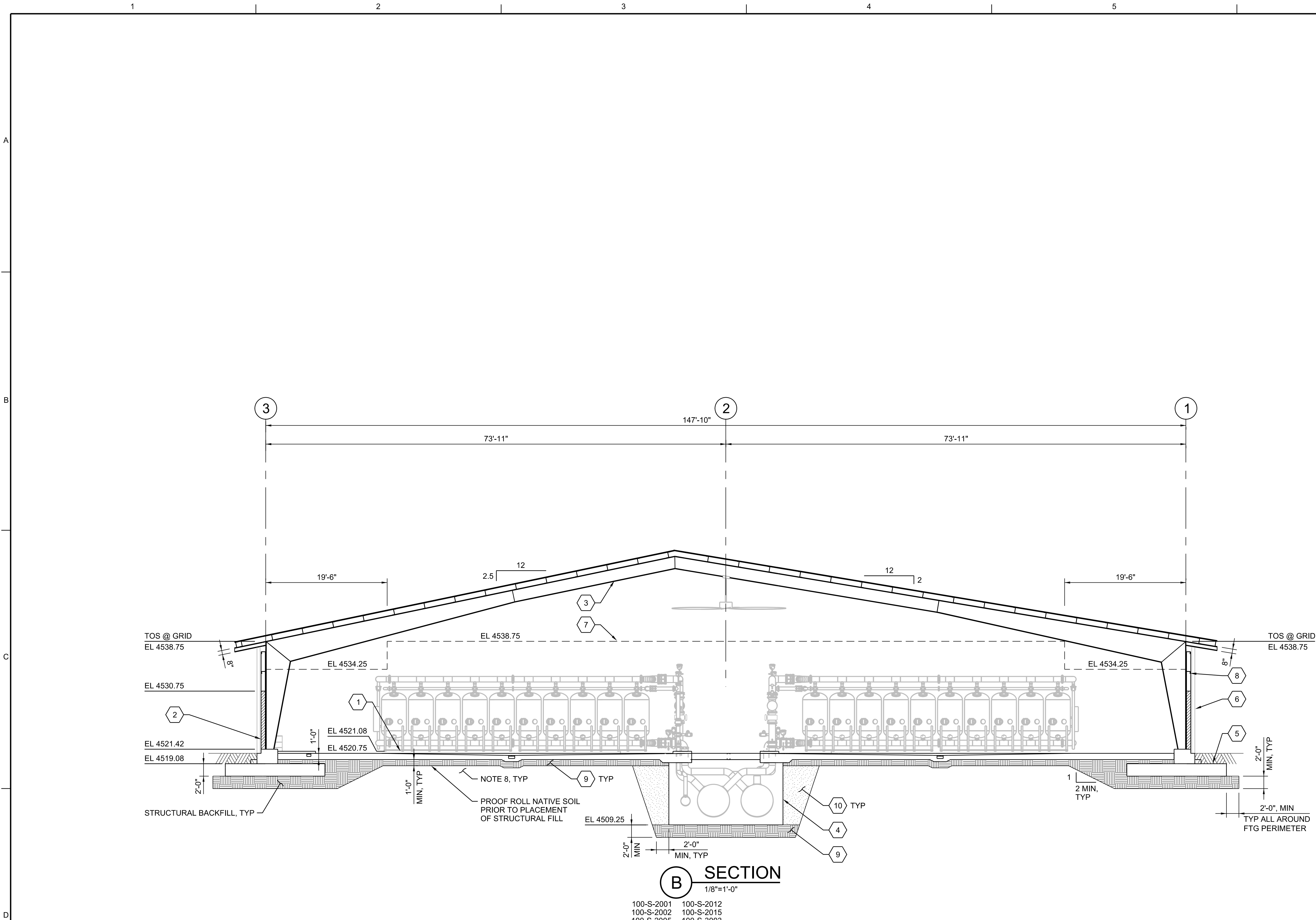
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
- ENCASE PROCESS PIPING BELOW SLABS AND FOUNDATIONS PER DETAILS (0330-016) AND (0330-017).
- COORDINATE WALL AND SLAB OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- EQUIPMENT AND PIPING IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. COORDINATE WITH OTHER DISCIPLINE DRAWINGS.
- COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.
- FOR SUBGRADE PREPARATION AND STRUCTURAL BACKFILL REQUIREMENTS SEE THE SPECIFICATIONS AND SECTIONS (B) AND (D) 100-S-3002 100-S-3004

SHEET KEYNOTES

- CONCRETE EQUIPMENT PAD, TYP
- 8" CMU (1) 100-S-5002
- RIGID FRAME BY PEMB MANUFACTURER
- CONCRETE PIPE ENCASEMENT (1) 100-S-5001
- SEE FOUNDATION PLAN DRAWINGS FOR ELEVATION ADJUSTMENTS AT PIPE CROSSINGS. COORDINATE WITH PROCESS MECHANICAL AND PLUMBING DRAWINGS.
- FOR WALL SECTION, INCLUDING VENEER AND INSULATION, SEE ARCHITECTURAL DRAWINGS, TYP.
- FOR MEZZANINE FRAMING AND COMPOSITE DECK SEE DRAWING 100-S-4001.
- GIRTS BY PEMB MANUFACTURER, FOR ADDITIONAL LOADS AT CANOPIES SEE (5) 100-S-5002
- FOR WALL SECTION SEE (E) 100-S-3005



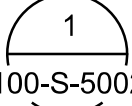
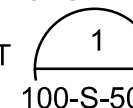
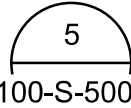
DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			



GENERAL NOTES

- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
- ENCASE PROCESS PIPING BELOW SLABS AND FOUNDATIONS PER DETAILS (0330-016) AND (0330-017).
- COORDINATE WALL AND SLAB OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- EQUIPMENT AND PIPING IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. COORDINATE WITH OTHER DISCIPLINE DRAWINGS.
- COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.
- THE EXTENTS OF COMPACTED GRANULAR FILL SHOWN ARE MINIMUM AND TYPICAL FOR FACILITY 100 UNLESS NOTED OTHERWISE.
- PREPARE SUBGRADE AS SPECIFIED.

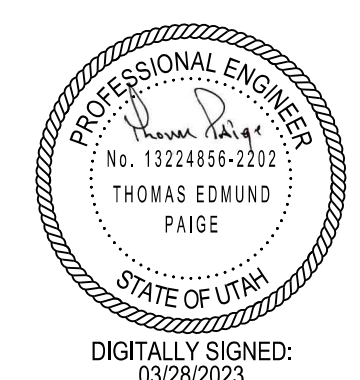
SHEET KEYNOTES

- CONCRETE EQUIPMENT PAD, TYP
- 8" CMU 
- RIGID FRAME BY PEMB MANUFACTURER
- CONCRETE PIPE ENCASEMENT 
- SEE FOUNDATION PLAN DRAWINGS FOR ELEVATION ADJUSTMENTS AT PIPE CROSSINGS. COORDINATE WITH PROCESS MECHANICAL AND PLUMBING DRAWINGS.
- FOR WALL SECTION, INCLUDING VENEER AND INSULATION, SEE ARCHITECTURAL DRAWINGS, TYP.
- ROOF FRAMING OF PEMB SHALL NOT EXTEND BELOW THE ELEVATIONS INDICATED.
- GIRTS BY PEMB MANUFACTURER. FOR ADDITIONAL LOADS AT CANOPIES SEE 
- COMPACTED GRANULAR FILL. BELOW FOOTINGS AND MAT SLAB. SEE SPECIFICATIONS AND NOTE 7.
- CLSM OR GRANULAR FILL COMPACTED TO 100 PERCENT RELATIVE COMPACTION.

B SECTION

1/8"=1'-0"

100-S-2001 100-S-2012
100-S-2002 100-S-2015
100-S-2005 100-S-3003
100-S-2008 100-S-3004
100-S-2009



DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1' IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

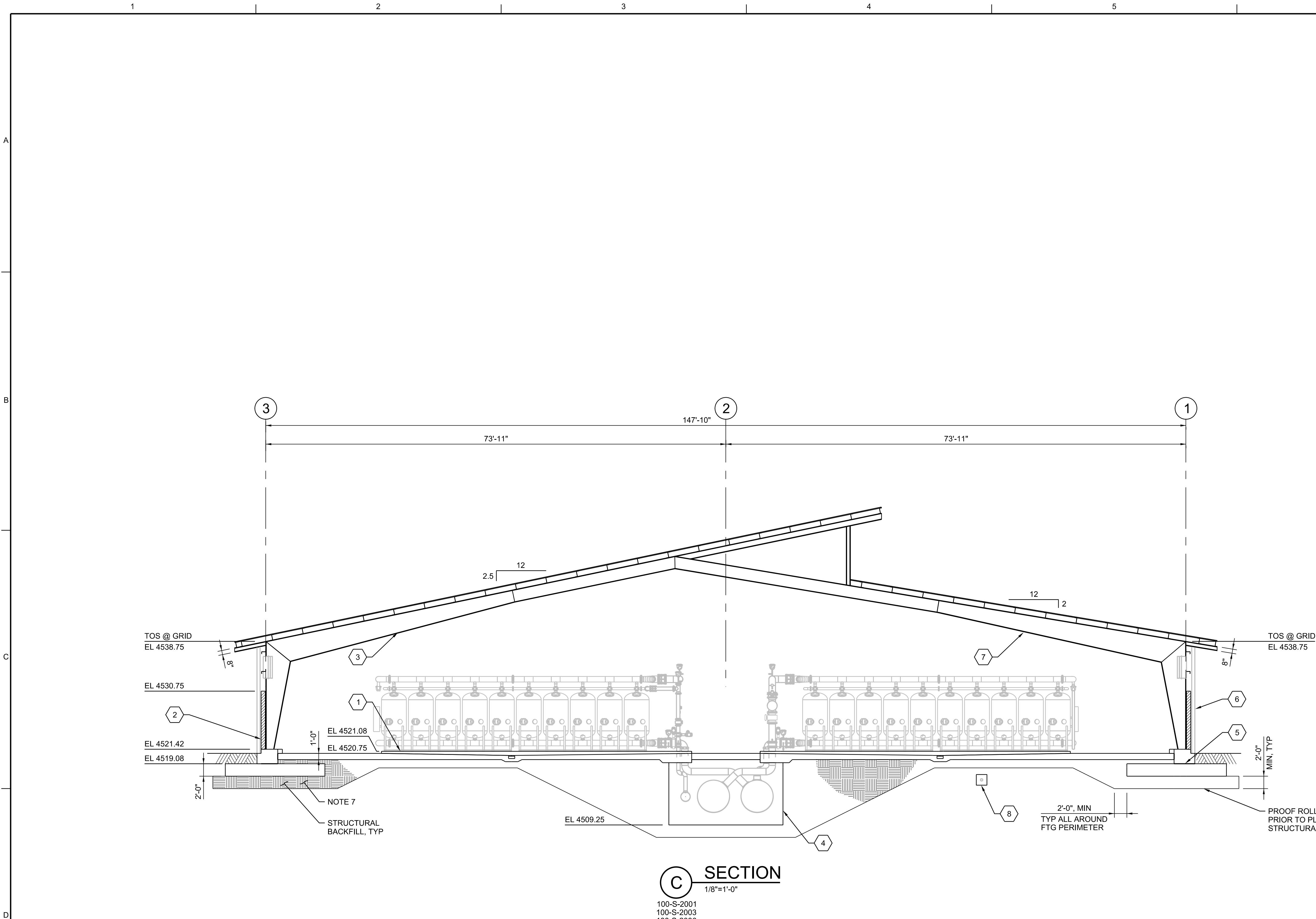
Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
STRUCTURAL
SECTION

SHEET	267
DWG	100-S-3002
DATE	MARCH 2023
PROJ	W7Y47300

100% DESIGN



GENERAL NOTES

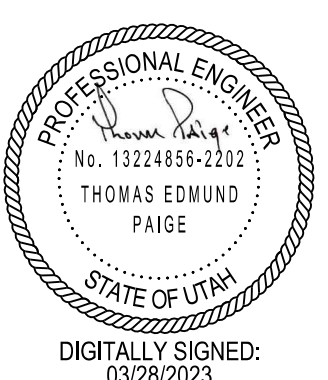
- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
- ENCASE PROCESS PIPING BELOW SLABS AND FOUNDATIONS PER DETAILS (0330-016) AND (0330-017).
- COORDINATE WALL AND SLAB OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- EQUIPMENT AND PIPING IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. COORDINATE WITH OTHER DISCIPLINE DRAWINGS.
- COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.
- FOR SUBGRADE PREPARATION AND STRUCTURAL BACKFILL REQUIREMENTS SEE THE SPECIFICATIONS AND SECTIONS (B) AND (D) 100-S-3002 100-S-3004

SHEET KEYNOTES

- CONCRETE EQUIPMENT PAD, TYP
- 8" CMU (1) 100-S-5002
- RIGID FRAME BY PEMB MANUFACTURER
- CONCRETE PIPE ENCASEMENT (1) 100-S-5001
- SEE FOUNDATION PLAN DRAWINGS FOR ELEVATION ADJUSTMENTS AT PIPE CROSSINGS. COORDINATE WITH PROCESS MECHANICAL AND PLUMBING DRAWINGS.
- FOR WALL SECTION, INCLUDING VENEER AND INSULATION, SEE ARCHITECTURAL DRAWINGS, TYP.
- FOR MINIMUM CLEARANCE REQUIREMENTS OF PEMB ROOF FRAMING SEE SECTION (B) 100-S-3002
- PIPE ENCASEMENT (0330-016) SEE NOTE 2.

SECTION C

1/8"=1'-0"
100-S-2001
100-S-2003
100-S-2006
100-S-2008
100-S-2010
100-S-2013
100-S-2015



DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1 2 3 4 5 6 7 8 9 10
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

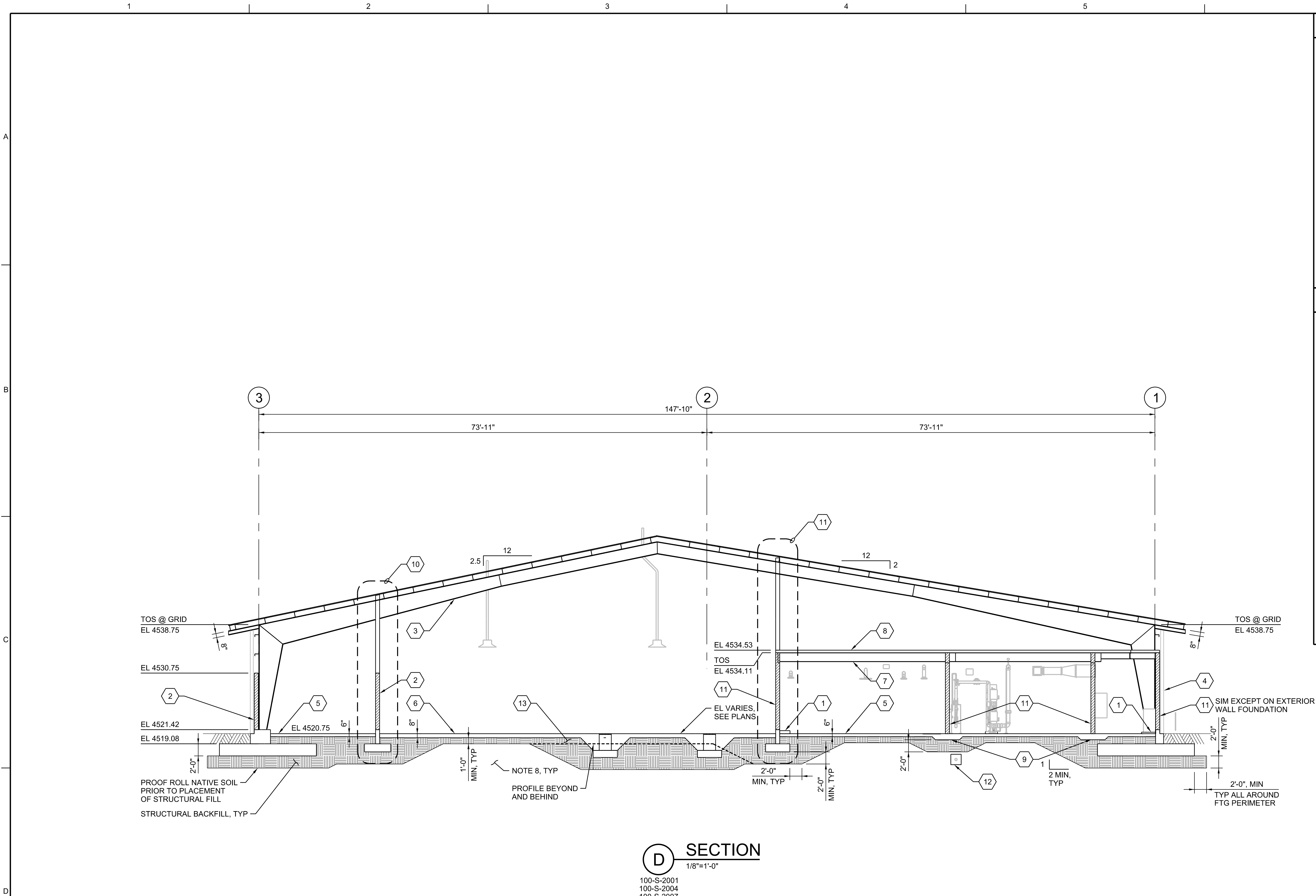
Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
STRUCTURAL
SECTION

SHEET	288
DWG	100-S-3003
DATE	MARCH 2023
PROJ	W7Y47300

100% DESIGN



GENERAL NOTES

- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
- ENCASE PROCESS PIPING BELOW SLABS AND FOUNDATIONS PER DETAILS (0330-016) AND (0330-017).
- COORDINATE WALL AND SLAB OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- EQUIPMENT AND PIPING IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. COORDINATE WITH OTHER DISCIPLINE DRAWINGS.
- COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.
- THE EXTENTS OF COMPACTED GRANULAR FILL SHOWN ARE MINIMUM AND TYPICAL FOR FACILITY 100 UNLESS NOTED OTHERWISE.
- PREPARE SUBGRADE AS SPECIFIED.

SHEET KEYNOTES

- CONCRETE EQUIPMENT PAD (0330-056), TYPE E, TYP
- 8" CMU (100-S-5002)
- RIGID FRAME BY PEMB MANUFACTURER
- FOR WALL SECTION, INCLUDING VENEER AND INSULATION, SEE ARCHITECTURAL DRAWINGS, TYP.
- 6" CONC SLAB. FOR REINFORCEMENT SEE PLAN DRAWINGS.
- 8" CONC SLAB. FOR REINFORCEMENT SEE PLAN DRAWINGS.
- MEZZANINE FRAMING. SEE DRAWING 100-S-4001
- 5" COMPOSITE DECK. FOR ADDITIONAL INFORMATION SEE DRAWING 100-S-4001.
- THICKENED SLAB FOOTING PER DETAIL (0330-042)
- FOR WALL SECTION SEE (H) 100-S-3005
- FOR WALL SECTION SEE (F) 100-S-3005
- PIPE ENCASEMENT (0330-016) SEE NOTE 2.
- COMPACTED GRANULAR FILL BELOW FOOTINGS AND MAT SLAB. SEE SPECIFICATIONS AND NOTE 7.

SECTION D

1/8"=1'-0"

100-S-2001
100-S-2004
100-S-2007
100-S-2008
100-S-2011
100-S-2014
100-S-2015

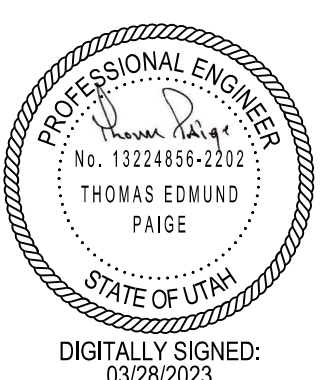
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
STRUCTURAL
SECTION

SHEET	269
DWG	100-S-3004
DATE	MARCH 2023
PROJ	W7Y47300



DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

100% DESIGN

INTERIOR FINISH SCHEDULE

ABBREVIATIONS:						NOTES:					
ACT	ACOUSTICAL TILE	FNSH	FINISH	PHP	PHENOLIC PANEL	NO. 1	NUMBERS IN THE FINISH COLUMN REFER TO PAINT SYSTEMS IN SPECIFICATION SECTION 09 90 00.				
ARWB	ABUSE-RESISTANT GWB	GALV	GALVANIZED	PLAM	PLASTIC LAMINATE	NO. 2	CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.				
CLR	CLEAR	GWB	GYP SUM WALL BOARD	PT	COLOR BODY PORCELAIN TILE	NO. 3	WALL SURFACES BEHIND CASEWORK AND OTHER BUILT-IN ITEMS NEED NOT BE PAINTED.				
CMU	CONCRETE MASONRY UNIT	HGT	HEIGHT	RUB	RUBBER BASE	NO. 4	FOR EXTERIOR FINISHES AND COLORS, SEE EXTERIOR FINISH SCHEDULE ON THIS DRAWING.				
COL	COLOR	IMRP	INSULATED METAL ROOF PANEL	SLR	SEALER	NO. 5	STEEL TROWELED TYPE S-1 FINISH, REFER TO SPECIFICATION SECTION 03 30 00.				
CONC	CONCRETE	IMWP	INSULATED METAL WALL PANEL	STL	STEEL	NO. 6	PROVIDE AT EACH FACE OF CONTAINMENT CURB.				
EPOXY	EPOXY RESIN	MATL	MATERIAL	SS	SOLID SURFACING	NO. 7	BROOMED TYPE S-5 FINISH, REFER TO SPECIFICATION SECTION 03 30 00.				
EXP	EXPOSED METAL STRUCTURE	MET	METAL	WRB	WATER RESISTANT GWB	NO. 8	PROTECT CONCRETE FLOOR FROM STAINING PRIOR TO SEALER APPLICATION.				
FCTY	FACTORY	PEB	POLYETHYLENE BACKER BOARD			NO. 9	REFER TO DRAWINGS 100-M-3004 AND 100-M-5003 FOR LOCATIONS OF POLYETHYLENE BACKER BOARD AND ADDITIONAL MOUNTING INFORMATION.				
						NO. 10	PROVIDE SPRAY TEXTURE OVER LEVEL 4 GYPSUM BOARD FINISH AS SPECIFIED IN SECTION 09 29 00.				

SPACE		FLOOR			BASE AND WAINSCOT				TYPICAL WALL			OTHER WALL			CEILING			MISCELLANEOUS				OTHER REQUIREMENTS		
NO.	NAME	SUB FL	FINISH	COL	HGT	MATL	FINISH	COL	WALLS	MATL	FINISH	COL	MATL	FINISH	COL	HGT	MATL	FINISH	COL	ITEM	MATL	FINISH	COL	
100100	POLYMER STORAGE	CONC	NOTE 7, SLR	CLR	8"	CONC	SLR / 117, NOTE 6	CLR / SAFETY YELLOW	S, W / N, E	PEB, NOTE 9 / CMU	FCTY / 117	GRAY / P-1	IMWP	FCTY	WHITE	VARIES	IMRP	FCTY	WHITE	PRE-ENGINEERED BLDG FRAMES, GIRTS & PURLINS	GALV MET	10A	P-1	---
100101	FILTRATION ROOM	CONC	NOTE 5, SLR	CLR	8"	CONC	SLR	CLR	ALL	CMU	117	P-1	IMWP / GWB, NOTE 10	FCTY / 115	WHITE / P-1	VARIES	IMRP	FCTY	WHITE	PRE-ENGINEERED BLDG FRAMES, GIRTS & PURLINS	GALV MET	10A	P-1	PAINT INTERIOR BOLLARD WITH PS-17 IN OSHA YELLOW
100102	INVENTORY / STORAGE	CONC	NOTE 5, SLR	CLR	8"	CONC	SLR	CLR	ALL	CMU	117	P-1	IMWP / GWB, NOTE 10	FCTY / 115	WHITE / P-1	VARIES	IMRP	FCTY	WHITE	PRE-ENGINEERED BLDG FRAMES, GIRTS & PURLINS	GALV MET	10A	P-1	PAINT INTERIOR BOLLARD WITH PS-17 IN OSHA YELLOW
100103	WORK BAY	CONC	NOTE 5, SLR	CLR	8"	CONC	SLR	CLR	ALL	CMU	117	P-1	IMWP / GWB, NOTE 10	FCTY / 115	WHITE / P-1	VARIES	IMRP	FCTY	WHITE	PRE-ENGINEERED BLDG FRAMES, GIRTS & PURLINS / WORKBENCH	GALV MET / WOOD	10A / 105	P-1 / N-9	---
100104	JANITOR	CONC	NOTE 5, SLR	CLR	4" / 8"	RUB / CONC	FCTY / SLR	W-7 / CLR	N, E/ W, S	WRB, NOTE 10	116	P-1	CMU	117	P-1	8'-0"	WRB, NOTE 10	116	P-2	---	---	---	---	---
100105	SAMPLE RECEIVING ROOM	CONC	NOTE 5 & 8, SLR	CLR	4"	RUB	FCTY	W-7	ALL	WRB, NOTE 10	116	P-1	---	---	---	9'-0"	ACT	FCTY	C-1 / C-2	CABINETRY / COUNTERTOP / CABINETRY (DESK) / COUNTERTOP (COUNTER)	PLAM / EPOXY / PLAM / SS	FCTY / FCTY / FCTY / FCTY	N-3 / N-4 / N-2 / N-5	---
100106	ENTRY / MUD ROOM	CONC	NOTE 5 & 8, SLR	CLR	8"	CONC	SLR	CLR	ALL	CMU	117	P-1	PHP	FCTY	W-12	9'-0"	WRB, NOTE 10	116	P-2	---	---	---	---	---
100107	LAUNDRY ROOM	CONC	PT	F-1 / F-2	6"	PT	FCTY	W-10, W-11	ALL	ARWB, NOTE 10	116	P-1	CMU	117	P-1	9'-0"	ACT	FCTY	C-1 / C-2	CABINETRY / COUNTERTOP / TRANSITION STRIP / PRE-ENGINEERED BLDG FRAMES	PLAM / SS / STL / GALV MET	FCTY / FCTY / FCTY / 10A	N-2 / N-5 / N-1 / P-1	---
100108	UNISEX RESTROOM	CONC	PT	F-1 / F-2	6"	PT	FCTY	W-10, W-11	ALL	PT	FCTY	W-8 / W-9 / W-11	WRB, NOTE 10	116	P-1	9'-0"	WRB, NOTE 10	116	P-2	ACCESSIBLE BENCH	PLAS	FCTY	N-8	REFER TO DETAIL 0931-001 FOR WALL TILE PAT
100109	UNISEX RESTROOM	CONC	PT	F-1 / F-2	6"	PT	FCTY	W-10, W-11	ALL	PT	FCTY	W-8 / W-9 / W-11	WRB, NOTE 10	116	P-1	9'-0"	WRB, NOTE 10	116	P-2	ACCESSIBLE BENCH	PLAS	FCTY	N-8	REFER TO DETAIL 0931-001 FOR WALL TILE PAT
100110	LOCKER ROOM	CONC	PT	F-1 / F-2	6"	PT	FCTY	W-10, W-11	ALL	ARWB, NOTE 10	116	P-1	CMU	117	P-1	9'-0"	WRB, NOTE 10	116	P-2	LOCKERS / ACCESSIBLE BENCH	MET/PLAS	FCTY / FCTY	N-7 / N-8	---
100111	MECHANICAL ROOM	CONC	NOTE 5, SLR	CLR	8"	CONC	SLR	CLR	W	CMU	117	P-1	---	---	---	12'-9"	EXP	5	P-2	---	---	---	---	---
100112	ELECTRICAL ROOM	CONC	NOTE 5, SLR	CLR	8"	CONC	SLR	CLR	N, E, W	CMU	117	P-1	---	---	---	12'-9"	EXP	5	P-2	PRE-ENGINEERED BLDG FRAMES	GALV MET	10A	P-1	---
100113	UTILITY ROOM	CONC	NOTE 5, SLR	CLR	8"	CONC	SLR	CLR	E	CMU	117	P-1	---	---	---	12'-9"	EXP	5	P-2	PRE-ENGINEERED BLDG FRAMES	GALV MET	10A	P-1	---
100201	MEZZANINE	CONC	NOTE 5, SLR	CLR	4"	RUB	---	---	---	IMWP	FCTY	WHITE	GWB, NOTE 10	115	P-1	VARIES	IMRP	FCTY	WHITE	PRE-ENGINEERED BLDG FRAMES, GIRTS & PURLINS	GALV MET	10A	P-1	---

EXTERIOR FINISH SCHEDULE

ITEM / MATERIAL	FINISH	COLOR
SPLIT-FACE CMU VENEER (TCMUV-1)	FACTORY / WATER REPELLENT SEALER	W-1 / W-4
SMOOTH-FACE CMU VENEER (CMUV-1)	FACTORY / WATER REPELLENT SEALER	W-2 / W-4
SMOOTH-FACE CMU VENEER (CMUV-2)	FACTORY / WATER REPELLENT SEALER	W-3 / W-4
INSULATED METAL WALL PANEL	FACTORY	W-6
INSULATED METAL ROOF PANEL AND SOFFIT	FACTORY	M-1
GUTTER AND DOWNSPOUTS	FACTORY	M-2
LUMINAIRES	FACTORY	DARK BRONZE
BOLLARD	PS-5	OSHA SAFETY YELLOW
DOWNSPOUT BOOT	M-3	
WALL MOUNTED FAN	FACTORY	ARCHITECTURAL BRONZE
PREFABRICATED METAL CANOPY	FACTORY	M-4
MISCELLANEOUS EXPOSED STEEL (INCLUDING LEDGERS AT CMU VENEER OPENINGS)	PS-5	P-3

COLOR LIST

NOTES:			
NO. 1	COLOR SELECTIONS FOR THIS PROJECT MAY BE NOTED IN DOOR AND HARDWARE SCHEDULE, WINDOW AND RELIGHT SCHEDULE, INTERIOR FINISH SCHEDULE, EXTERIOR FINISH SCHEDULE, LOUVER SCHEDULE, PIPING SCHEDULE AND ON THE DRAWINGS BY THE LETTER-NUMBER COMBINATION IN THE MARK COLUMN OF THIS LIST.		
NO. 2	SOME COLOR SELECTIONS MAY BE MADE IN VARIOUS SPECIFICATION SECTIONS.		
NO. 3	VERIFY COLORS WITH OWNER BEFORE BEGINNING WORK. IF A COLOR SELECTION IS NOT MADE, REQUEST ONE FROM THE OWNER.		
NO. 4	COLOR TO MATCH EXISTING CONTROLS FACILITY.		

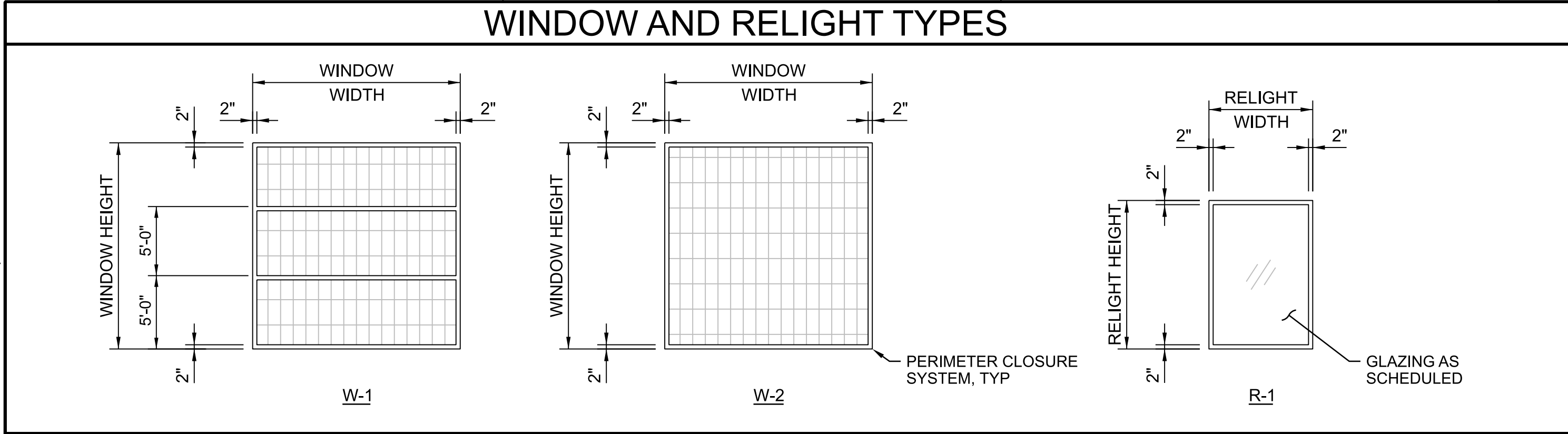
MARK	MATERIAL	MANUFACTURER (BASIS OF DESIGN OR APPROVED EQUAL)	COLOR (NOTE 3)
FLOORS			
F-1	COLOR BODY PORCELAIN TILE (FLOOR)	AMERICAN OLEAN	THEORETICAL / ABSOLUTE BROWN / 24" x 24"
F-2	GROUT (FLOOR)	MAPEI	42, MOCHA
WALLS			
W-1	SPLIT-FACE CMU VENEER (TCMUV-1)	BASALITE	655, NOTE 4
W-2	SMOOTH-FACE CMU VENEER (CMUV-1)	BASALITE	655, NOTE 4
W-3	SMOOTH-FACE CMU VENEER (CMUV-2)	BASALITE	630, NOTE 4
W-4	CMU VENEER MORTAR	BASALITE	655, NOTE 4
W-5	CMU VENEER MORTAR	BASALITE	630, NOTE 4
W-6	INSULATED METAL WALL PANEL	VARCO PRUDEN	COOL EGYPTIAN WHITE
W-7	RUBBER BASE	JOHNSONITE	167 FUDGE
W-8	COLOR BODY PORCELAIN TILE (FIELD)	AMERICAN OLEAN	THEORETICAL / IDEAL BEIGE / 12" x 24"
W-9	COLOR BODY PORCELAIN TILE (ACCENT)	AMERICAN OLEAN	THEORETICAL / ABSOLUTE BROWN / 2" x 2", MOSAIC
W-10	COLOR BODY PORCELAIN TILE (COVE)	AMERICAN OLEAN	THEORETICAL / ABSOLUTE BROWN / 6" x 12", COVE BASE
W-11	GROUT (WALL)	MAPEI	15, BONE
W-12	PHENOLIC PANEL	STONEWOOD ARCHITECTURAL PANELS	9120-AA, BRONZE IMPRESSION

LOUVER SCHEDULE

LOUVER TYPE ABBREVIATIONS:		OTHER ABBREVIATIONS:		NOTES:	
DB	DRAINABLE BLADE	AFF	ABOVE FINISH FLOOR (AT GROUND LEVEL)	NO. 1	FOR LOUVER DETAILS, SEE DESIGN DETAILS.
		AL	ALUMINUM	NO. 2	CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.
		FCTY	FACTORY		

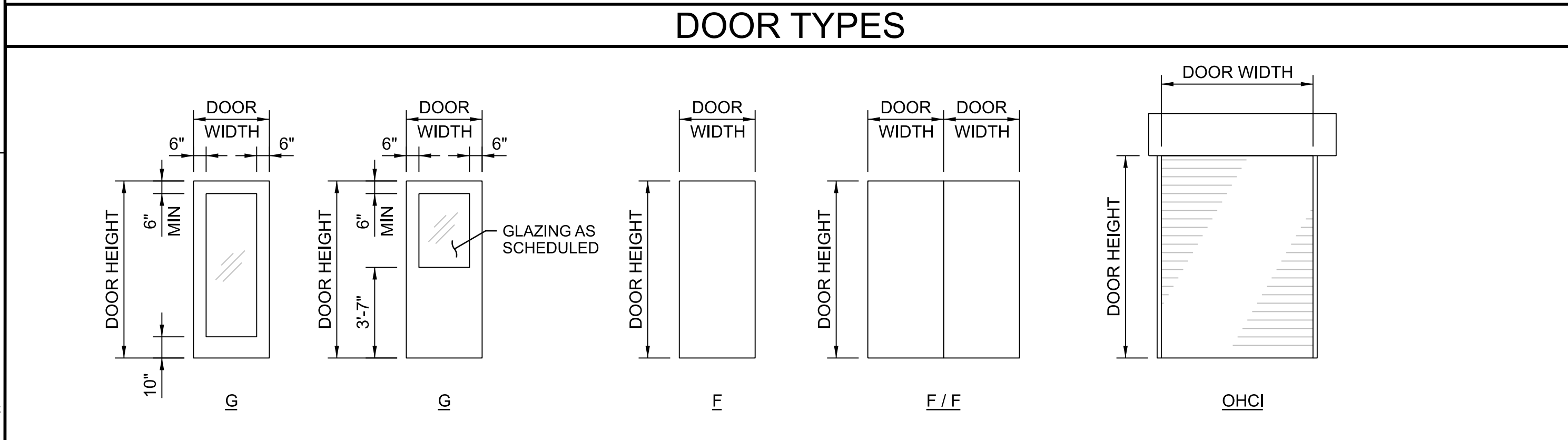
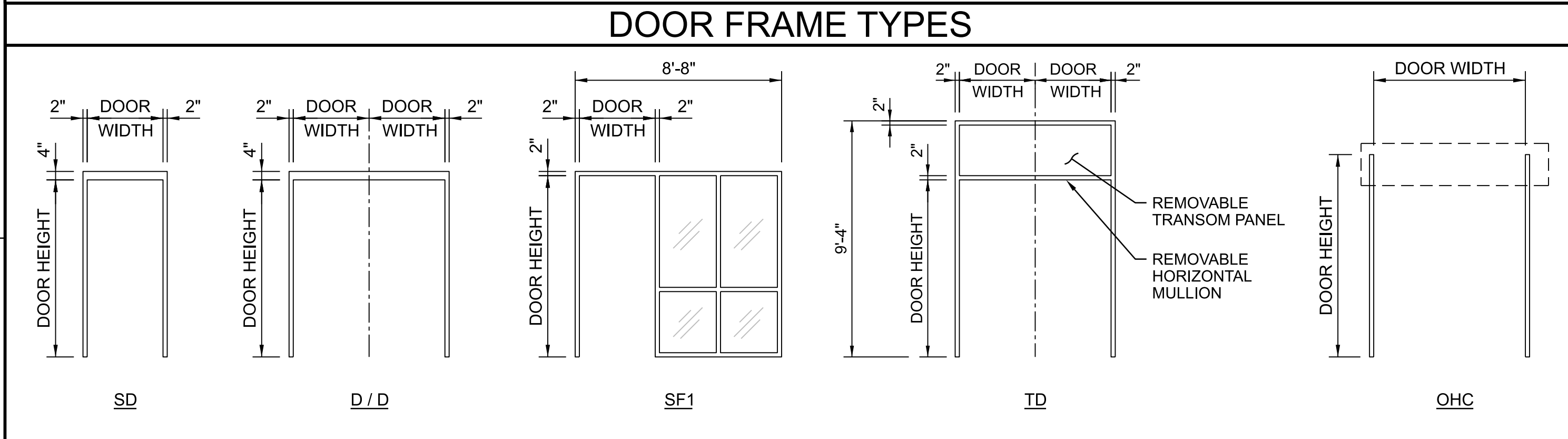
NO.	SIZE		OPENING				DETAILS			SILLS			OTHER REQUIREMENTS
			MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	MATL	COL	HEIGHT	
100L-01	10'-0"	3'-6"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	12'-0" AFF	
100L-02	10'-0"	3'-6"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	12'-0" AFF	
100L-03	3'-0"	3'-0"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	12'-6" AFF	
100L-04	2'-0"	2'-0"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	10'-8" AFF	
100L-05	4'-0"	4'-0"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	23'-7" AFF	
100L-06	10'-0"	3'-6"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	12'-0" AFF	
100L-07	10'-0"	3'-6"	AL	DB	FCTY	O-2	0890-126	0890-127	0890-128	AL	O-2	12'-0" AFF	

													CEILINGS												
													C-1	ACOUSTIC CEILING TILE		ARMSTRONG	WHITE								
													C-2	ACOUSTIC CEILING GRID		ARMSTRONG	WHITE								
													OPENINGS												
													O-1	OVERHEAD COILING DOOR		CORNELL	RAL 8025, PALE BROWN								
													O-2	LOUVER		RUSKIN	546, DARK BRONZE								
													O-3	TRANSLUCENT WALL PANEL FRAME		KALWALL	85, BRONZE								
													O-4	ALUMINUM STOREFRONT SYSTEM		KAWNEER	DARK BRONZE								
													FURNISHINGS												
													N-1	TRANSITION STRIP		SCHLUTER	RENO-RAMP / STAINLESS STEEL								
													N-2	PLASTIC LAMINATE (CABINET)		WILSONART	7909-60 FUSION MAPLE								
													N-3	PLASTIC LAMINATE (CHEMICAL RESISTANT)		WILSONART	7909-60 FUSION MAPLE								
													N-4	EPOXY COUNTERTOP (LAB COUNTERTOP)		DURCON	GRAPHITE								
													N-5	SOLID SURFACING (COUNTERTOP)		CORIAN	CARBON CONCRETE								



B

100W-01	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-02	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-03	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-04	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-05	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-06	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-07	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-08	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-09	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-10	12'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-11	12'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-12	12'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-13	10'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-14	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-15	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-16	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-17	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-18	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-19	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-20	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-21	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-22	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-23	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100R-01	5'-4"	3'-8"	F	SG	HM	R-1	5	P-3	0811-010	0811-011	0811-012	N	---	SS	N-6	3'-8" AFF	



D

100101A	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	2	EXT	---	CARD READER / DOOR POSITION SWITCH
100101B	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100101C	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	12	EXT	---	DOOR POSITION SWITCH
100101D	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100101E	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100101F	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	2	EXT	---	CARD READER / DOOR POSITION SWITCH
100101G	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	2	EXT	---	CARD READER / DOOR POSITION SWITCH
100101H	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100101J	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100101K	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	2	EXT	---	CARD READER / DOOR POSITION SWITCH
100102A	(2) 3'-2"	7'-0"	HM	F / F	---	5	P-3	HM	D / D	5	P-3	0811-003	0811-004	0871-003	5	100101	---	"INVENTORY / STORAGE"
100103A	3'-0"	7'-0"	HM	G	SG	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-003	8	100101	---	"WORK BAY"
100103B	12'-0"	12'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-007	0833-008	0833-008	11	---	---	DOOR POSITION SWITCH
100103C	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100103D	3'-0"	7'-0"	HM	G	SG	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-003	8	100101	---	"WORK BAY"
100103E	12'-0"	14'-0"	STL	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-011	0833-010, 0833-012	0833-010	11	---	---	DOOR POSITION SWITCH
100103F	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0841-010	2	EXT	---	CARD READER / DOOR POSITION SWITCH
100104A	3'-0"	7'-0"	HM	F	---	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-003	15	100103	---	"JANITOR"
100105A	3'-0"	7'-0"	HM	G	SG	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-003	8	100101	---	"SAMPLE RECEIVING ROOM"
100105B	3'-0"	7'-0"	HM	F	---	5	P-3	HM	SD	5	P-3	0811-032	0811-032	0871-004	8	100107	---	"SAMPLE RECEIVING ROOM"
100106A	3'-0"	7'-2"	AL	FG	IG-C	FCTY	O-4	AL	SF1	FCTY	O-4	0841-008, 0841-002	0811-004	0871-001, 0841-007	2	EXT	---	CARD READER / DOOR POSITION SWITCH
100107A	3'-0"	7'-0"	HM	F	---	5	P-3	HM	SD	5	P-3	0811-032	0811-032	0871-004	9	100106	---	"LOCKER & LAUNDRY ROOM"
100108A	3'-0"	7'-0"	HM	F	---	5	P-3	HM	SD	5	P-3	0811-032	0811-032	0871-003	6	100108	---	"RESTROOM"
100109A	3'-0"	7'-0"	HM	F	---	5	P-3	HM	SD	5	P-3	0811-032	0811-032	0871-003	6	100109	---	"RESTROOM"
100111A	3'-0"	7'-0"	HM	F	---	5	P-3	HM	D / D	5	P-3	0811-003	0811-004	0871-003	16	100113	---	"MECHANICAL ROOM"
100111B	(2) 2'-10"	7'-0"	HM	F / F	---	5	P-3	HM	D / D	5	P-3	0811-003	0811-004	0871-003	7	100101	---	"MECHANICAL ROOM"
100112A	(2) 3'-2"	7'-0"	HM	F / F	---	5	P-3	HM	TD	5	P-3	0811-020	0811-006	0871-001	3	EXT	---	CARD READER / DOOR POSITION SWITCH
100112B	3'-0"	7'-0"	HM	F	---	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-002	4	100101	---	"ELECTRICAL ROOM"
100113A	(2) 3'-2"	7'-0"	HM	F / F	---	5	P-3	HM	D / D	5	P-3	0811-005	0811-006	0871-001	3	EXT	---	CARD READER / DOOR POSITION SWITCH

WINDOW AND RELIGHT SCHEDULE

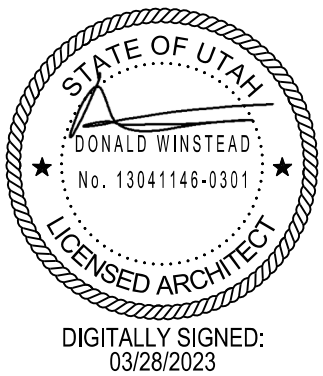
WINDOW AND RELIGHT
TYPE ABBREVIATIONS:
F FIXED
TWP TRANSLUCENT WALL PANEL

OTHER ABBREVIATIONS:
AFF ABOVE FINISH FLOOR
(AT GROUND LEVEL)
AL ALUMINUM
FG FIBERGLASS FACE SHEET

HM HOLLOW METAL
SG SAFETY GLASS
SS SOLID SURFACING

NOTES:
NO. 1 SEE THIS SHEET FOR WINDOW AND RELIGHT TYPES.
NO. 2 FOR FRAME DETAILS, SEE STANDARD DETAILS.
NO. 3 CODES IN COL COLUMN REFER TO COLOR LIST ON DRAWING 100-A-6001.

NO.	SIZE		WINDOW		OPENING				DETAILS			BLINDS		SILLS			OTHER REQUIREMENTS
	WIDTH	HEIGHT	TYPE	GLASS	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	Y / N	COLOR	MATL	COLOR	HEIGHT	
100W-01	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-02	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-03	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-04	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-05	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-06	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-07	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-08	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-09	12'-0"	14'-0"	TWP	FG	AL	W-1	FCTY	O-3	0845-006	0845-006 SIM, 0845-003 SIM	0845-005	N	---	---	---	0'-0" AFF	REMOVABLE
100W-10	12'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-11	12'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-12	12'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-13	10'-0"	4'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	17'-8" AFF	
100W-14	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-15	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-16	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-17	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-18	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-19	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-20	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-21	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-22	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100W-23	12'-0"	6'-0"	TWP	FG	AL	W-2	FCTY	O-3	0845-006	0845-006	0845-006	N	---	---	---	29'-6" AFF	
100R-01	5'-4"	3'-8"	F	SG	HM	R-1	5	P-3	0811-010	0811-011	0811-012	N	---	SS	N-6	3'-8" AFF	



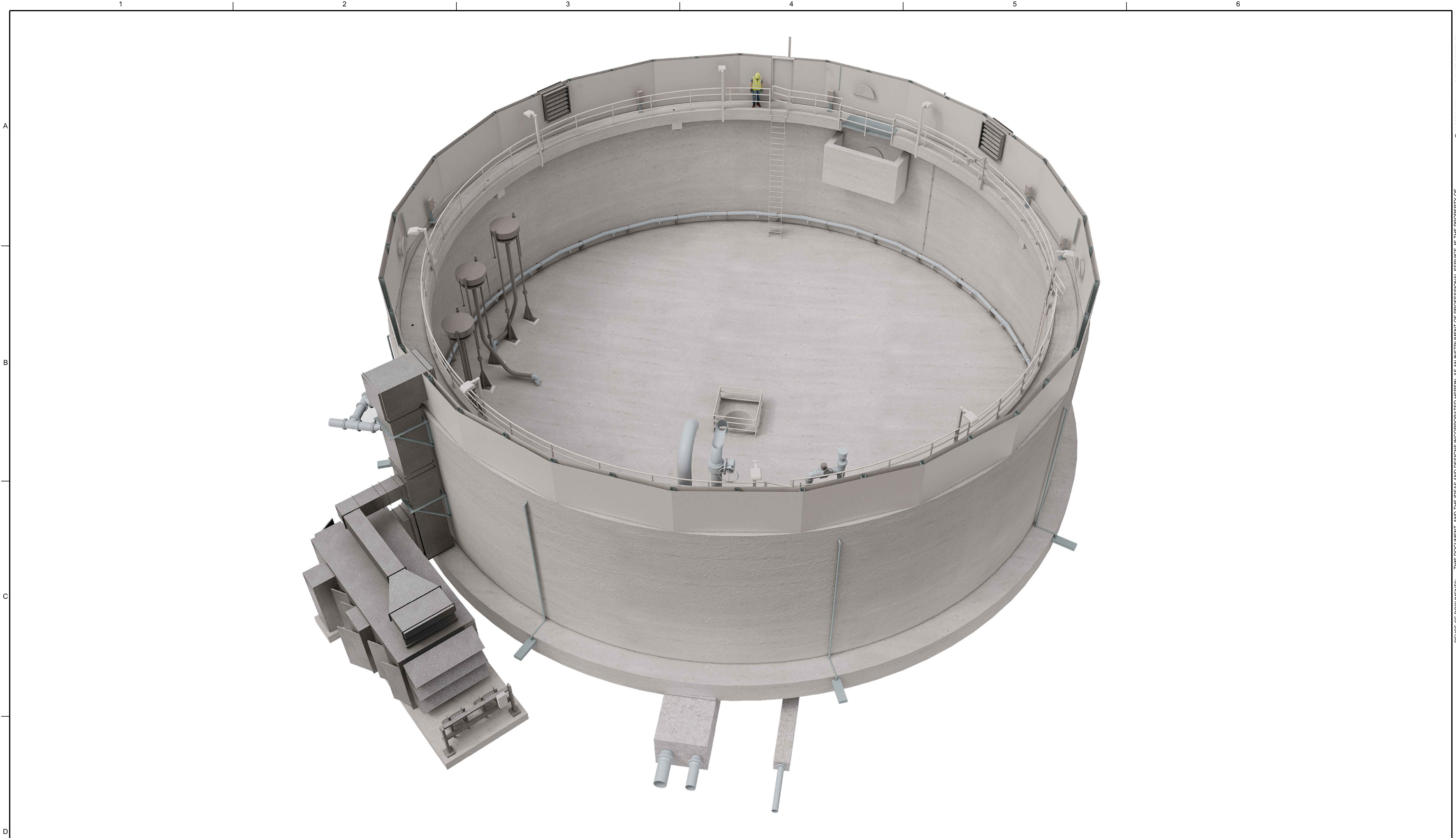
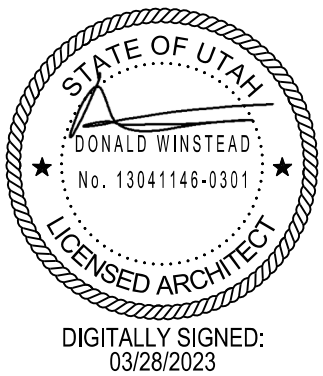
DSGN	S GRIEBEL						
DR	S GRIEBEL						
CHK	D WINSTEAD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
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CWP GROUNDWATER POLISHING PLANT
BACKWASH WASTE EQUALIZATION BASINS
RENDERING

SHEET	396
DWG	200-R-0001
DATE	MARCH 2023
PROJ	W7Y47300



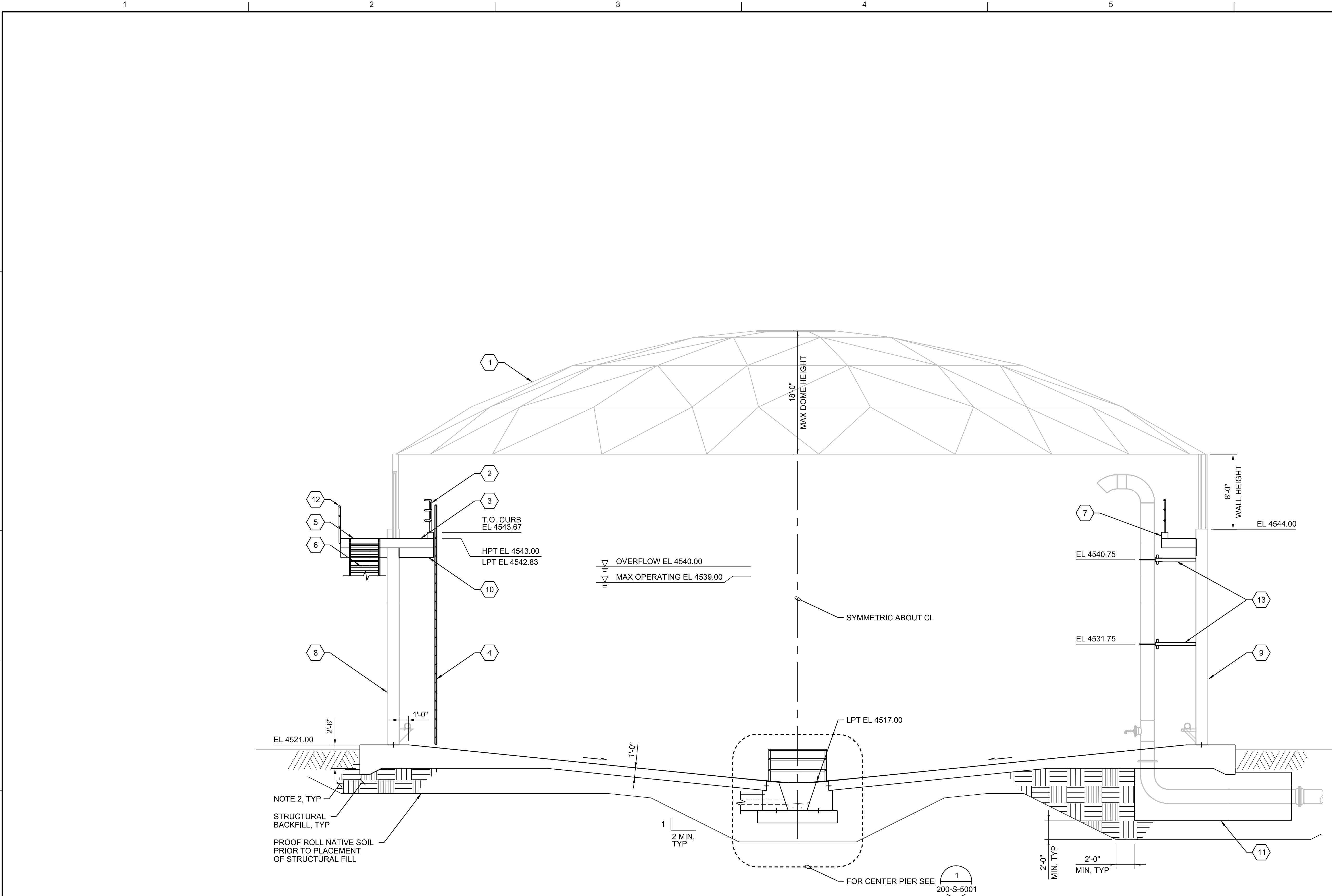
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CHK	D WINSTEAD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
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CWP GROUNDWATER POLISHING PLANT
BACKWASH WASTE EQUALIZATION BASINS
RENDERING

SHEET	397
DWG	200-R-0002
DATE	MARCH 2023
PROJ	W7Y47300



GENERAL NOTES

- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
- PREPARE SUBGRADE AS SPECIFIED.

SHEET KEYNOTES

- PREMANUFACTURED ALUMINUM DOME COVER. COORDINATE WITH ARCHITECTURAL AND BUILDING MECHANICAL DRAWINGS FOR ADDITIONAL OPENINGS, INCLUDING LOUVERS.
 - SST RAILING (0552-041)
 - CONCRETE WALKWAY (3) 200-S-5001
 - SST LADDER (0551-140) TYPE B WITH 2'-6" GATE, TYP OF 4, LOCATE AT CENTERLINES
 - ELEVATED LANDING SEE (4) SIM WITH CORBELS AT EACH END 200-S-5001
 - GALVANIZED STEEL STAIRS (0551-041)
 - 8"x8" CONC CURB, SEE (0330-080)
 - FOR TYPICAL WALL REINFORCEMENT SEE (B) 200-S-3002
 - FOR FORM LINER LAYOUT SEE (1) 200-S-5002
 - CONCRETE CORBEL AT FLOOR DRAINS (4) 200-S-5001
 - CONCRETE PIPE ENCASEMENT, SEE (0330-016)
 - AL RAILING (0552-001)
 - PIPE BRACE (2) 200-S-5002 TYP AT 8", 14", AND 18" DIP.
- FOR ADDITIONAL INFORMATION SEE PROCESS DRAWINGS.

A SECTION

3/16"=1'-0"

200-S-2001 200-S-2004
200-S-2002 200-S-2005
200-S-2003 200-S-2006

VERIFY SCALE
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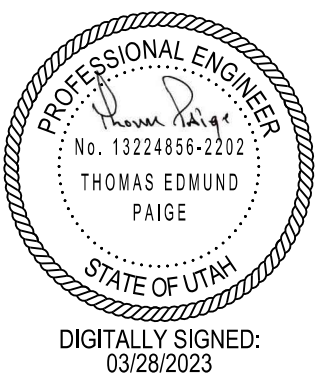
CWP GROUNDWATER POLISHING PLANT
BACKWASH WASTE EQUALIZATION BASINS
STRUCTURAL SECTION

SHEET	404
DWG	200-S-3001
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 200-S-3001_W7Y47300.dgn

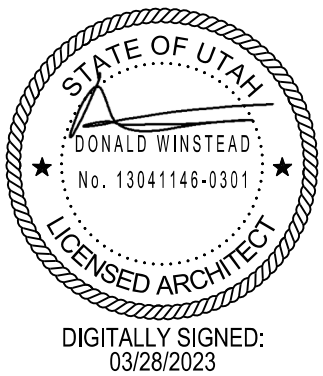
PLOT DATE:

PLOT TIME:



DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

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DSGN	S GRIEBEL						
DR	S GRIEBEL						
CHK	D WINSTEAD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

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CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
RENDERING

SHEET	427
DWG	300-R-0001
DATE	MARCH 2023
PROJ	W7Y47300

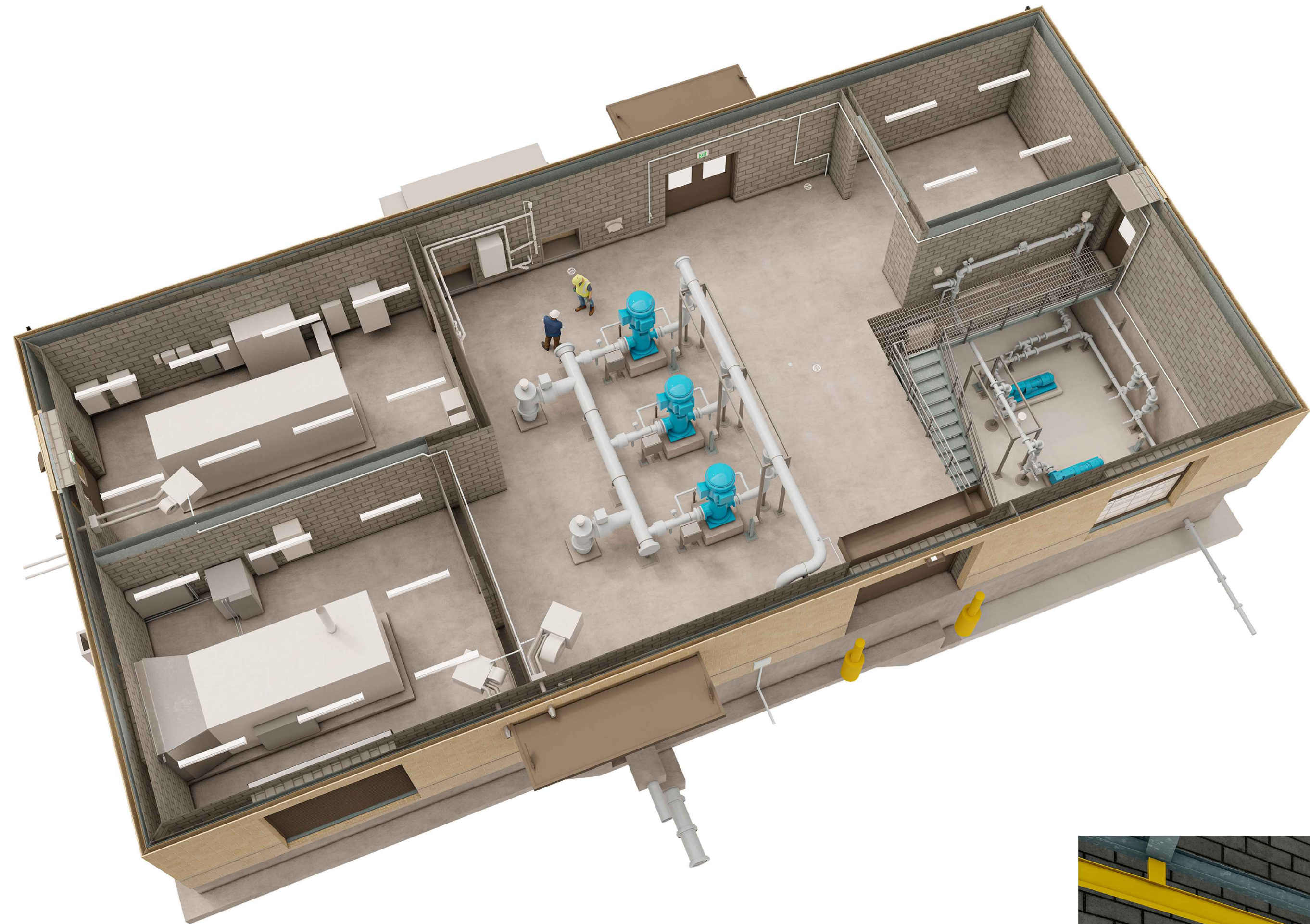
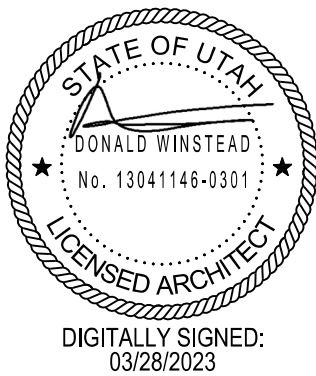
123456

A

B

C

D



DSGN	S GRIEBEL						
DR	S GRIEBEL						
CHK	D WINSTEAD						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

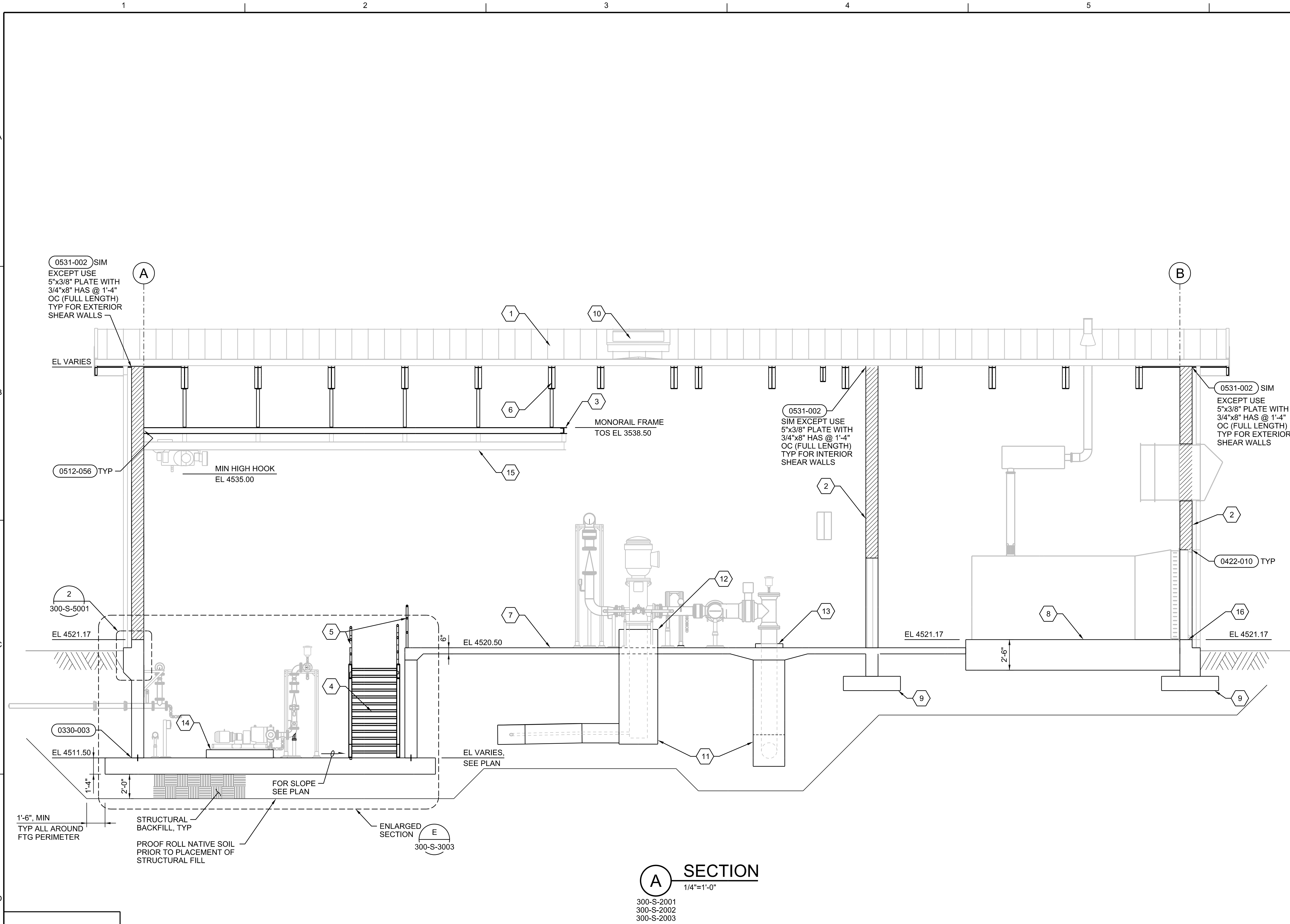
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CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
RENDERING

SHEET	428
DWG	300-R-0002
DATE	MARCH 2023
PROJ	W7Y47300

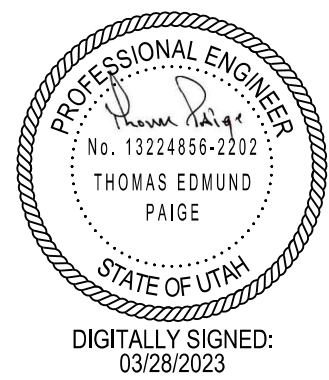


GENERAL NOTES

- FOR GENERAL STRUCTURAL NOTES, SEE DRAWINGS 001-GS-0001 AND 001-GS-0002.
- COORDINATE WALL AND SLAB OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
- EQUIPMENT AND PIPING IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. COORDINATE WITH OTHER DISCIPLINE DRAWINGS.
- COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.

SHEET KEYNOTES

- METAL DECK, SEE ROOF PLAN FOR DETAILS.
- FULL HEIGHT SOLID GROUTED 12" CMU WALLS W/ #6@24" EF VERTS & #5@32" EF HORIZ. SEE 0422-004
- W6x15 MONORAIL SUPPORT FRAME, SEE PLAN.
- GALVANIZED STEEL STAIRS PER 0551-041.
- AL RAILING PER 0552-001.
- FOR ROOF FRAMING SEE DRAWING 300-S-2003.
- 6" CONCRETE SLAB. FOR REINF SEE PLAN.
- GENERATOR FOUNDATION 0330-056 TYPE D
- STRIP FOOTING, SEE 300-S-5001
- 5'-0"x5'-0" REMOVABLE SKYLIGHTS. FOR ADDITIONAL INFORMATION SEE ARCH DRAWINGS.
- CONCRETE PIPE ENCASEMENT. SEE DETAILS 0330-016 AND 0330-017.
- EXTEND PIPE ENCASEMENT.
- CONCRETE PAD 0330-059 TYP AT PIPE PENETRATIONS THROUGH FLOOR SLAB.
- CONCRETE EQUIPMENT PAD 0330-056 TYPE A.
- 1-TON MONORAIL, TROLLEY, AND HOIST, SEE 9 ON DRAWINGS 300-S-2003.
- SLOPE TOP OF STEM WALL AT WINDOW AND DOOR OPENINGS.



DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

VERIFY SCALE

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0 1"

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CWP GROUNDWATER POLISHING PLANT

RESIDUALS PUMP STATION

STRUCTURAL SECTION

SHEET	432
DWG	300-S-3001
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 300-S-3001_W7Y47300.dgn

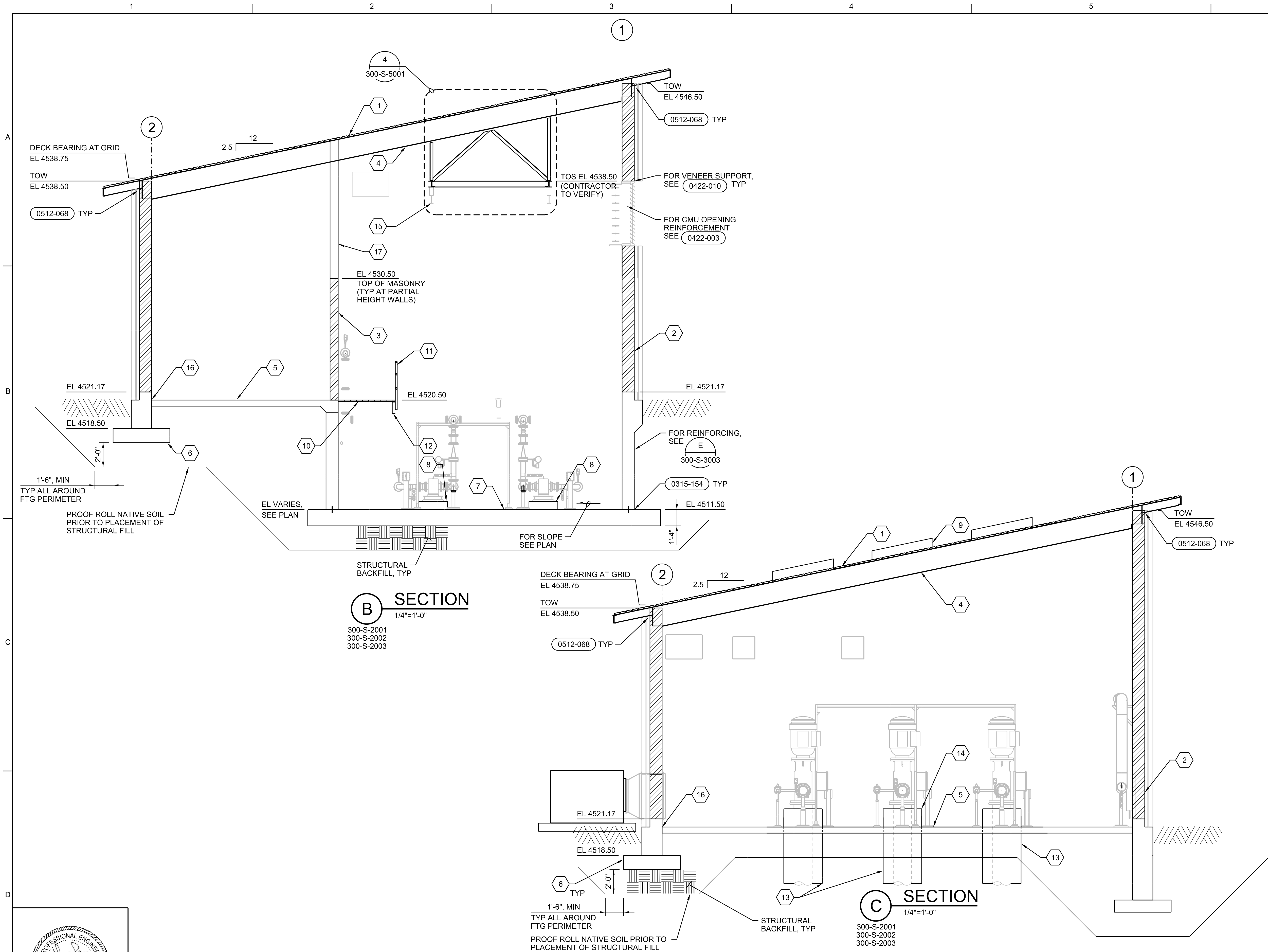
PLOT DATE:

PLOT TIME:

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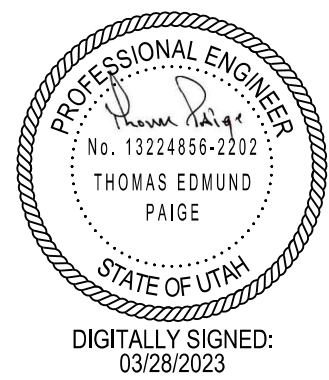


GENERAL NOTES

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- COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.

SHEET KEYNOTES

- METAL DECK, SEE ROOF PLAN FOR DETAILS.
- SOLID GROUTED 12" CMU FULL HEIGHT WALL W/ #6@24" EF VERTS & #5@32" EF HORIZ. SEE 0422-004
- PARTIALLY GROUTED 8" CMU PARTIAL HEIGHT WALL W/ #6@32" VERTS & #5@48" HORIZ
- FOR ROOF FRAMING SEE DRAWING 300-S-2003
- 6" CONCRETE SLAB. FOR REINF SEE PLAN.
- STRIP FOOTING, SEE 300-S-5001
- 1'-4" CONCRETE SLAB
- EQUIPMENT PAD, 0330-056 TYPE A
- 5'-0"x5'-0" REMOVABLE SKYLIGHTS. FOR ADDITIONAL INFORMATION SEE ARCH DRAWINGS.
- GALVANIZED STEEL GRATING
- AL RAILING 0552-001
- C12x20.7
- CONCRETE PIPE ENCASEMENT. SEE DETAILS 0330-016 AND 0330-017
- EXTEND PIPE ENCASEMENT
- 1-TON MONORAIL, TROLLEY, AND HOIST, SEE 9 ON DRAWING 300-S-2003.
- JOINT SEALANT OVER 1/2" PJF TYPICAL AT PERIMETER WALL.
- METAL STUD WALL, SEE ARCHITECTURAL.



DSGN	C WEBSTER							VERIFY SCALE
DR	T STIMPSON							BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	T PAIGE							0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	S MENK	NO.	DATE	REVISION	BY	APVD		

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CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
STRUCTURAL
SECTIONS

SHEET	433
DWG	300-S-3002
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 300-S-3002_W7Y47300.dgn

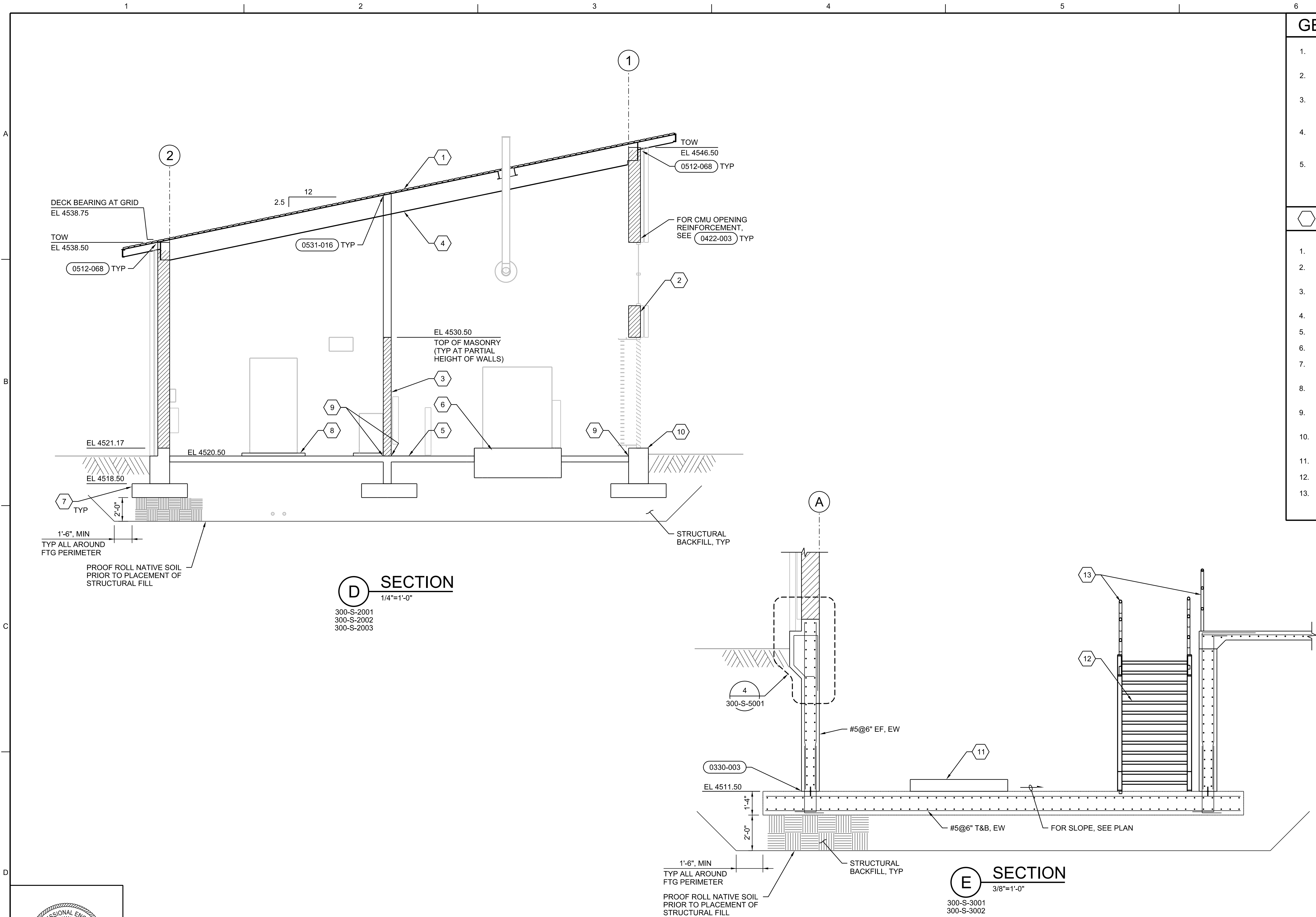
PLOT DATE:

PLOT TIME:

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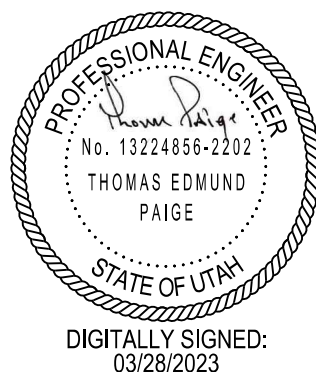
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- ### GENERAL NOTES

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 - COORDINATE DOOR, WINDOW, AND LOUVER SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
 - COORDINATE DOOR SILL, HEAD, AND JAMBS WITH ARCHITECTURAL DRAWINGS AND THE STANDARD DETAILS.
- ### SHEET KEYNOTES

 - METAL DECK, SEE ROOF PLAN FOR DETAILS.
 - SOLID GROUTED 12" CMU WALL W/ #6@24" EF VERTS & #5@32" EF HORIZ.
 - PARTIALLY GROUTED 8" CMU WALL W/ #6@32" VERTS & #5@48" HORIZ, SEE 0422-004 .
 - FOR ROOF FRAMING SEE DRAWING 300-S-2003
 - 6" CONCRETE SLAB. FOR REINF SEE PLAN.
 - GENERATOR FOUNDATION 0330-056 TYPE D.
 - STRIP FOOTING, SEE 1 300-S-5001
 - EQUIPMENT PAD 0330-056 TYPE E, TYP
 - JOINT SEALANT OVER 1/2" PJF TYPICAL AT PERIMETER WALL.
 - SLOPE TOP OF STEM WALL AT WINDOW AND DOOR OPENINGS.
 - EQUIPMENT PAD, 0330-056 TYPE A
 - GALVANIZED STEEL STAIRS PER 0551-041 .
 - AL RAILING PER 0552-001 .



DSGN	C WEBSTER								
DR	T STIMPSON								
CHK	T PAIGE								
APVD	S MENK	NO.	DATE	REVISION	BY	APVD			

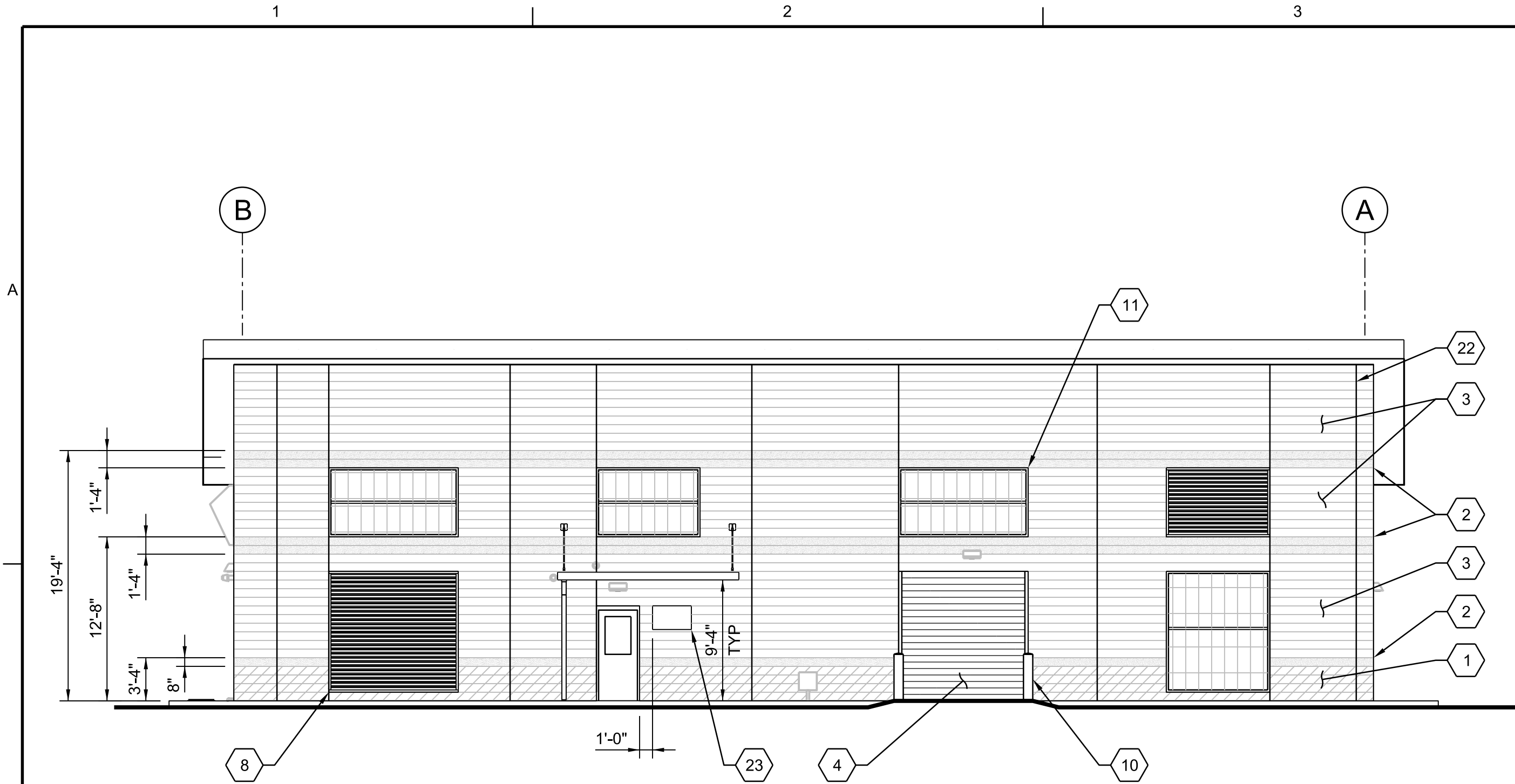
VERIFY SCALE
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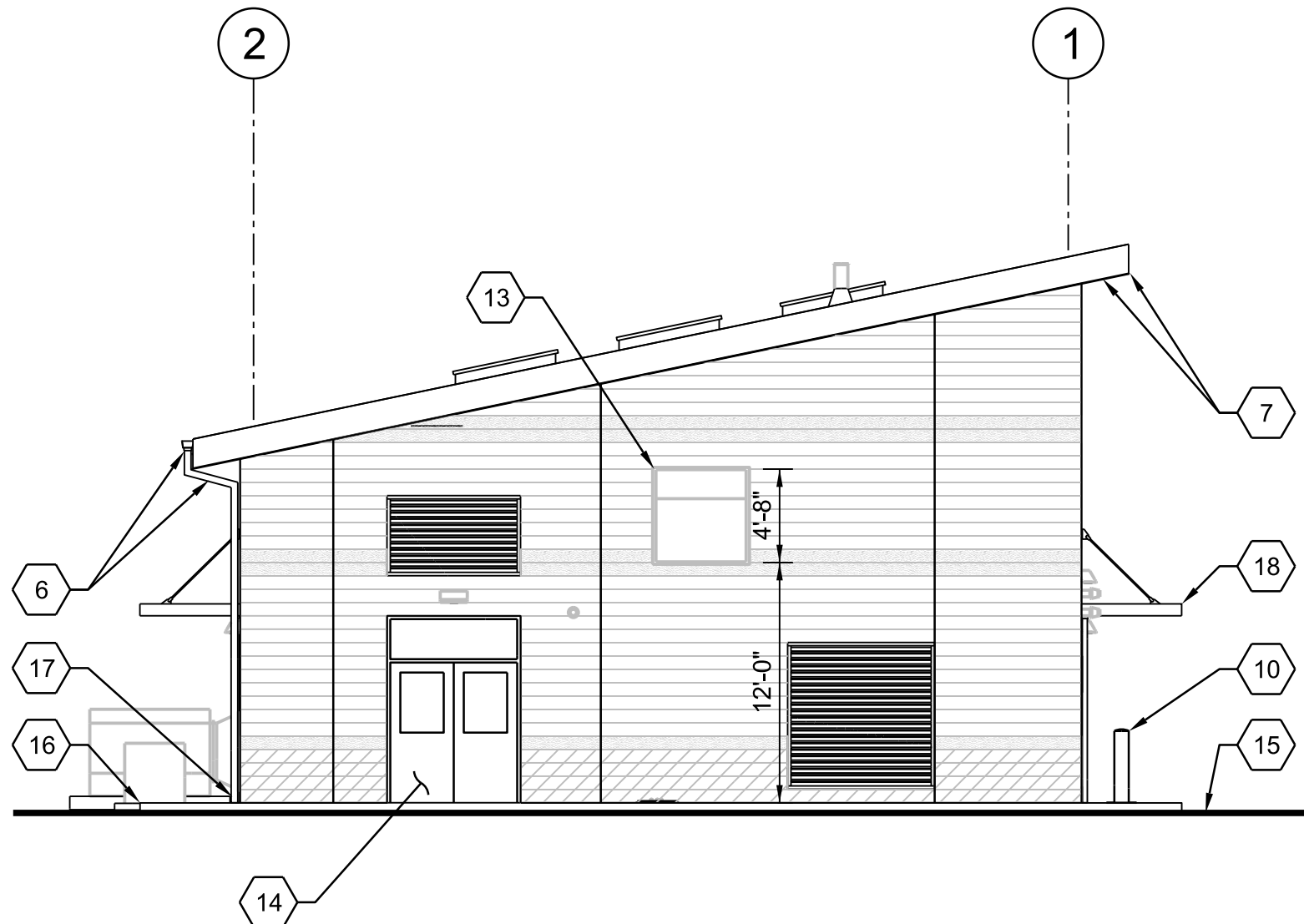


CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
STRUCTURAL
SECTIONS

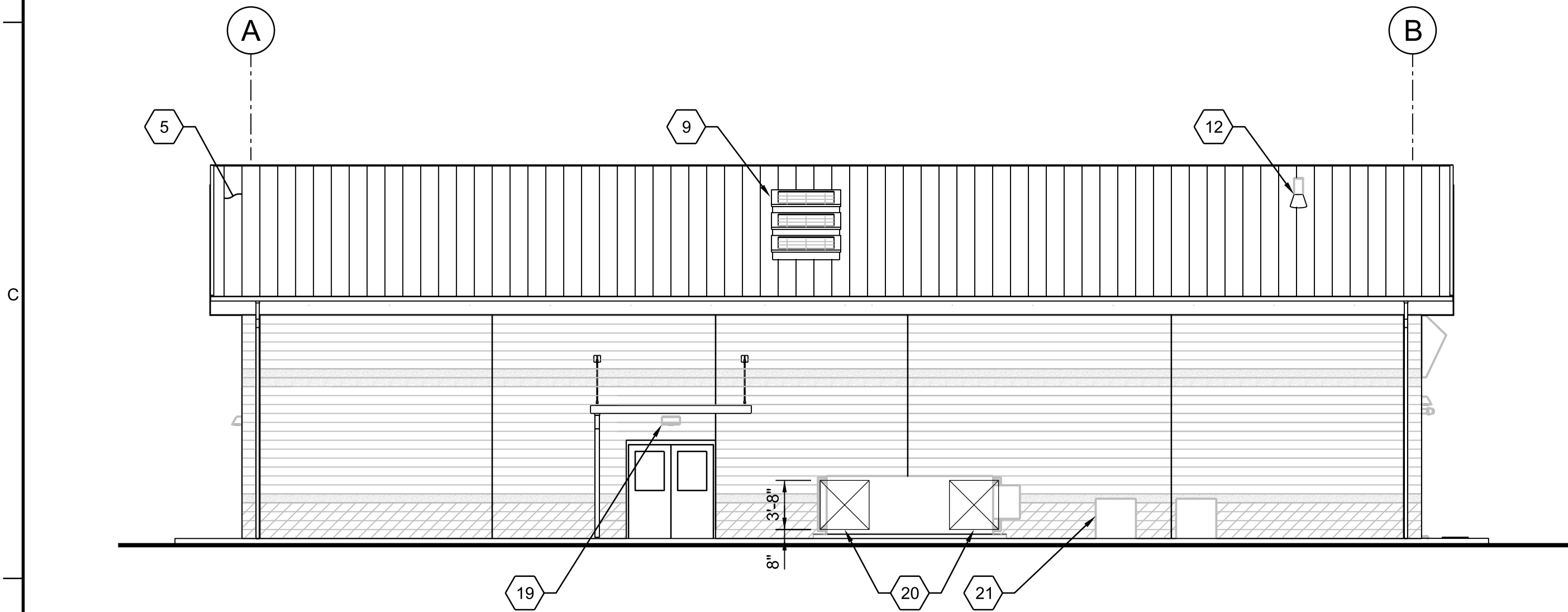
SHEET	434
DWG	300-S-3003
DATE	MARCH 2023
PROJ	W7Y47300



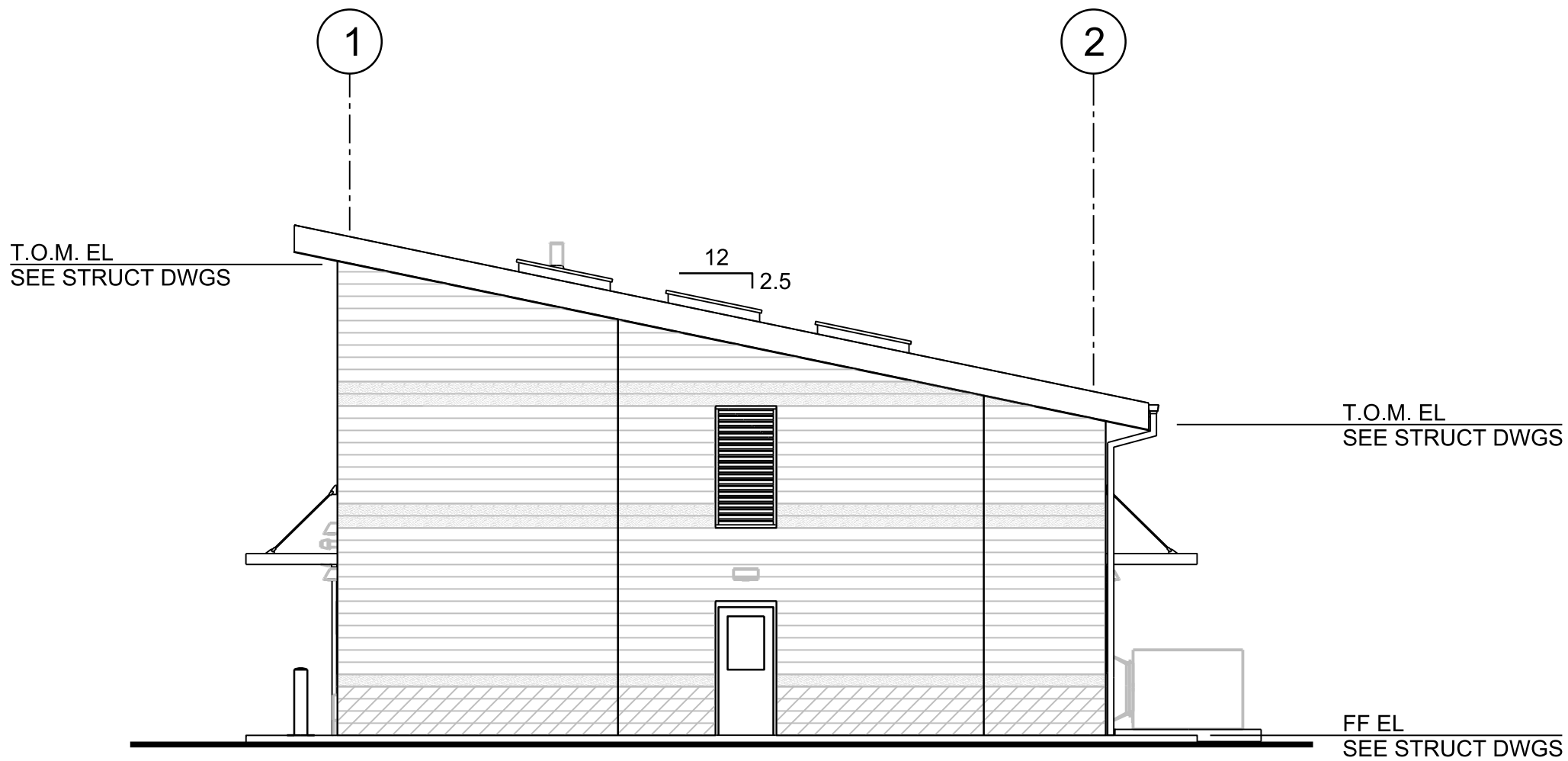
1 NORTH ELEVATION
1/8"=1'-0"
300-A-2001
300-A-2002



2 EAST ELEVATION
1/8"=1'-0"
300-A-2001
300-A-2002



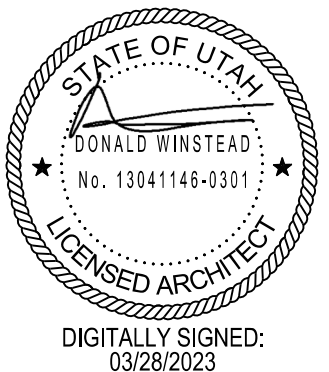
3 SOUTH ELEVATION
1/8"=1'-0"
300-A-2001
300-A-2002



4 WEST ELEVATION
1/8"=1'-0"
300-A-2001
300-A-2002

SHEET KEYNOTES

- SPLIT-FACE CMU VENEER (TCMUV-1), TYP.
- SMOOTH-FACE CMU VENEER (CMUV-1), TYP.
- SMOOTH-FACE CMU VENEER (CMUV-2), TYP.
- OVERHEAD COILING DOOR.
- STANDING SEAM SHEET METAL ROOFING SYSTEM OVER SELF-ADHERING UNDERLAYMENT ON RIGID INSULATION (R-30) OVER METAL DECKING, TYP.
- METAL GUTTER AND DOWNSPOUT, PROVIDE DE-ICING HEATING TAPE IN ALL GUTTERS AND DOWNSPOUTS IN ACCORDANCE WITH SECTION 40 05 33 PIPE HEAT TRACING. ROUTE DOWNSPOUT TO SIDEWALK DRAIN SYSTEM, SEE DESIGN DETAIL 0741-302 AND CIVIL DRAWINGS, TYP.
- SHEET METAL FASCIA AND SOFFIT.
- ALUMINUM LOUVER, TYP.
- 6'-0"x6'-0" REMOVABLE TRANSLUCENT ROOF PANEL (TRP) SKYLIGHT, TYP.
- BOLLARD, TYP.
- TRANSLUCENT WALL PANELS, TYP.
- GENERATOR EXHAUST ROOF PENETRATION, SEE DESIGN DETAIL 0770-103.
- FAN, SEE MECHANICAL DRAWINGS, TYP. CONTRACTOR TO COORDINATE LOCATION AND OPENING DIMENSIONS WITH APPROVED MECHANICAL EQUIPMENT.
- HOLLOW METAL DOOR AND FRAME, TYP.
- FINISH GRADE, SEE CIVIL DRAWINGS, TYP.
- CONCRETE SIDEWALK, SEE CIVIL DRAWINGS, TYP.
- ROUTE DOWNSPOUT TO SIDEWALK DRAIN SYSTEM, SEE DESIGN DETAIL 0741-302 TYP.
- PREFABRICATED METAL CANOPY, SEE DESIGN DETAIL 0742-502 TYP.
- LUMINAIRE, SEE ELECTRICAL DRAWINGS, TYP.
- AIR HANDLING UNIT SEE MECHANICAL DRAWINGS, TYP. CONTRACTOR TO COORDINATE LOCATION AND OPENING DIMENSIONS WITH APPROVED MECHANICAL EQUIPMENT.
- MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS, TYP.
- CMU VENEER CONTROL JOINT (CVCJ), FOR LOCATIONS, SEE PLANS, SEE DESIGN DETAIL 0421-301 TYP.
- BUILDING NAME SIGN, ALIGN TOP OF SIGN WITH TOP OF DOOR FRAME, SEE DESIGN DETAIL 1014-103.



DSGN	E GRAY / D WINSTEAD						VERIFY SCALE
DR	M COLLINS						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	G KIRSTEN						0 1" 1"
APVD	S MENK						IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
		NO.	DATE	REVISION	BY	APVD	

Jacobs



CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
ARCHITECTURAL
ELEVATIONS

SHEET	438
DWG	300-A-3001
DATE	MARCH 2023
PROJ	W7Y47300

INTERIOR FINISH SCHEDULE

ABBREVIATIONS:		EXP	EXPOSED METAL STRUCTURE			HGT	HEIGHT		NOTES:												NO. 5 FOR WINDOW AND TRIM FINISHES, SEE WINDOW SCHEDULE ON THIS DRAWING.						
CLR	CLEAR	FNSH	FINISH			MATL	MATERIAL		NO. 1 NUMBERS IN THE FINISH COLUMN REFER TO PAINT SYSTEMS IN SPECIFICATION SECTION 09 90 00.												NO. 6 PROVIDE SPRAY TEXTURE OVER LEVEL 4 GYPSUM BOARD FINISH AS SPECIFIED IN SECTION 09 29 00.						
CMU	CONCRETE MASONRY UNIT	GALV	HOT DIPPED GALVANIZED			MET	METAL		NO. 2 CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.																		
COL	COLOR	GLZ	GLAZING			SLR	SEALER		NO. 3 FOR EXTERIOR FINISHES AND COLORS, SEE EXTERIOR FINISH SCHEDULE ON THIS DRAWING.																		
CONC	CONCRETE								NO. 4 FOR DOOR AND FRAME FINISHES, SEE DOOR AND HARDWARE SCHEDULE ON THIS DRAWING.																		
SPACE		FLOOR			BASE AND WAINSCOT					TYPICAL WALL			OTHER WALL			CEILING				MISCELLANEOUS				OTHER REQUIREMENTS			
NO.	NAME	SUB FL	FINISH	COL	HGT	MATL	FINISH	COL	WALLS	MATL	FINISH	COL	MATL	FINISH	COL	HGT	MATL	FINISH	COL	ITEM			MATL	FINISH	COL		
300101	RECYCLE PUMP ROOM	CONC	SLR	CLR	8"	CONC	SLR	CLR	N, S	CMU	117	P-1	GWB, NOTE 6	115	P-1	VARIES	EXP	5	P-2	ROOF DECK & CLOSURES			GALV MET	10, 5	P-2		
300102	SETTLED SOLIDS PUMP ROOM	CONC	SLR	CLR	9'-8"	CONC	SLR	CLR	N, W	CMU	117	P-1	GWB, NOTE 6	115	P-1	VARIES	EXP	5	P-2	ROOF DECK & CLOSURES			GALV MET	10, 5	P-2		
300103	STORAGE ROOM	CONC	SLR	CLR	8"	CONC	SLR	CLR	S, W	CMU	117	P-1	GWB, NOTE 6	115	P-1	VARIES	EXP	5	P-2	ROOF DECK & CLOSURES			GALV MET	10, 5	P-2		
300104	ELECTRICAL ROOM	CONC	SLR	CLR	8"	CONC	SLR	CLR	E, S	CMU	117	P-1	GWB, NOTE 6	115	P-1	VARIES	EXP	5	P-2	ROOF DECK & CLOSURES			GALV MET	10, 5	P-2		
300105	BACKUP GENERATOR ROOM	CONC	SLR	CLR	8"	CONC	SLR	CLR	N, E	CMU	117	P-1	GWB, NOTE 6	115	P-1	VARIES	EXP	5	P-2	ROOF DECK & CLOSURES			GALV MET	10, 5	P-2		

EXTERIOR FINISH SCHEDULE

ITEM / MATERIAL	FINISH	COLOR
SPLIT-FACE CMU VENEER (TCMUV-1)	FACTORY / WATER REPELLENT SEALER	W-1 / W-4
SMOOTH-FACE CMU VENEER (CMUV-1)	FACTORY / WATER REPELLENT SEALER	W-2 / W-4
SMOOTH-FACE CMU VENEER (CMUV-2)	FACTORY / WATER REPELLENT SEALER	W-3 / W-4
STANDING SEAM SHEET METAL ROOFING AND SOFFIT	FACTORY	M-1
GUTTER AND DOWNSPOUTS	FACTORY	M-2
LUMINAIRES	FACTORY	DARK BRONZE
WALL MOUNTED FAN	FACTORY	ARCHITECTURAL BRONZE
BOLLARD	PS-4	OSHA SAFETY YELLOW
PREFABRICATED METAL CANOPY	FACTORY	M-3
REMOVABLE TRANSLUCENT ROOF PANEL SKYLIGHT (TRP)	FACTORY	O-4
MISCELLANEOUS EXPOSED STEEL (INCLUDING LEDGERS AT CMU VENEER OPENINGS)	PS-5	P-3
DOWNSPOUT BOOT	PS-10	M-4

COLOR LIST

NOTES:			
NO. 1	COLOR SELECTIONS FOR THIS PROJECT MAY BE NOTED IN DOOR AND HARDWARE SCHEDULE, WINDOW SCHEDULE, INTERIOR FINISH SCHEDULE, EXTERIOR FINISH SCHEDULE, LOUVER SCHEDULE, PIPING SCHEDULE AND ON THE DRAWINGS BY THE LETTER-NUMBER COMBINATION IN THE MARK COLUMN OF THIS LIST.		
NO. 2	SOME COLOR SELECTIONS MAY BE MADE IN VARIOUS SPECIFICATION SECTIONS.		
NO. 3	VERIFY COLORS WITH OWNER BEFORE BEGINNING WORK. IF A COLOR SELECTION IS NOT MADE, REQUEST ONE FROM THE OWNER.		
NO. 4	COLOR TO MATCH EXISTING CONTROLS FACILITY.		
MARK	MATERIAL	MANUFACTURER (BASIS OF DESIGN OR APPROVED EQUAL)	COLOR (NOTE 3)
WALLS			
W-1	SPLIT-FACE CMU VENEER (TCMUV-1)	BASALITE	655, NOTE 4
W-2	SMOOTH-FACE CMU VENEER (CMUV-1)	BASALITE	655, NOTE 4
W-3	SMOOTH-FACE CMU VENEER (CMUV-2)	BASALITE	630, NOTE 4
W-4	CMU VENEER MORTAR	BASALITE	619, NOTE 4
OPENINGS			
O-1	OVERHEAD COILING DOOR	CORNELL	RAL 8025, PALE BROWN
O-2	LOUVER	RUSKIN	546, DARK BRONZE
O-3	TRANSLUCENT WALL PANEL FRAMES	KALWALL	85, BRONZE
O-4	REMOVABLE TRANSLUCENT ROOF PANEL SKYLIGHT (TRP) FRAMES	KALWALL	85, DARK BRONZE
MISCELLANEOUS			
M-1	STANDING SEAM SHEET METAL ROOFING AND SOFFIT	MBCI	BURNISHED SLATE
M-2	GUTTER AND DOWNSPOUTS	MBCI	BURNISHED SLATE
M-3	PREFABRICATED METAL CANOPY	MAPES	MAPES BRONZE
M-4	DOWNSPOUT BOOT	AS SPECIFIED	MATCH DOWNSPOUT AND GUTTERS (M-2)
PAINT			
P-1	PAINT (WALLS)	SHERWIN-WILLIAMS	SW7013 - IVORY LACE
P-2	PAINT (CEILINGS)	SHERWIN-WILLIAMS	SW7003 - TOQUE WHITE
P-3	PAINT (HM DOORS AND FRAMES)	SHERWIN-WILLIAMS	SW6152 - SUPERIOR BRONZE

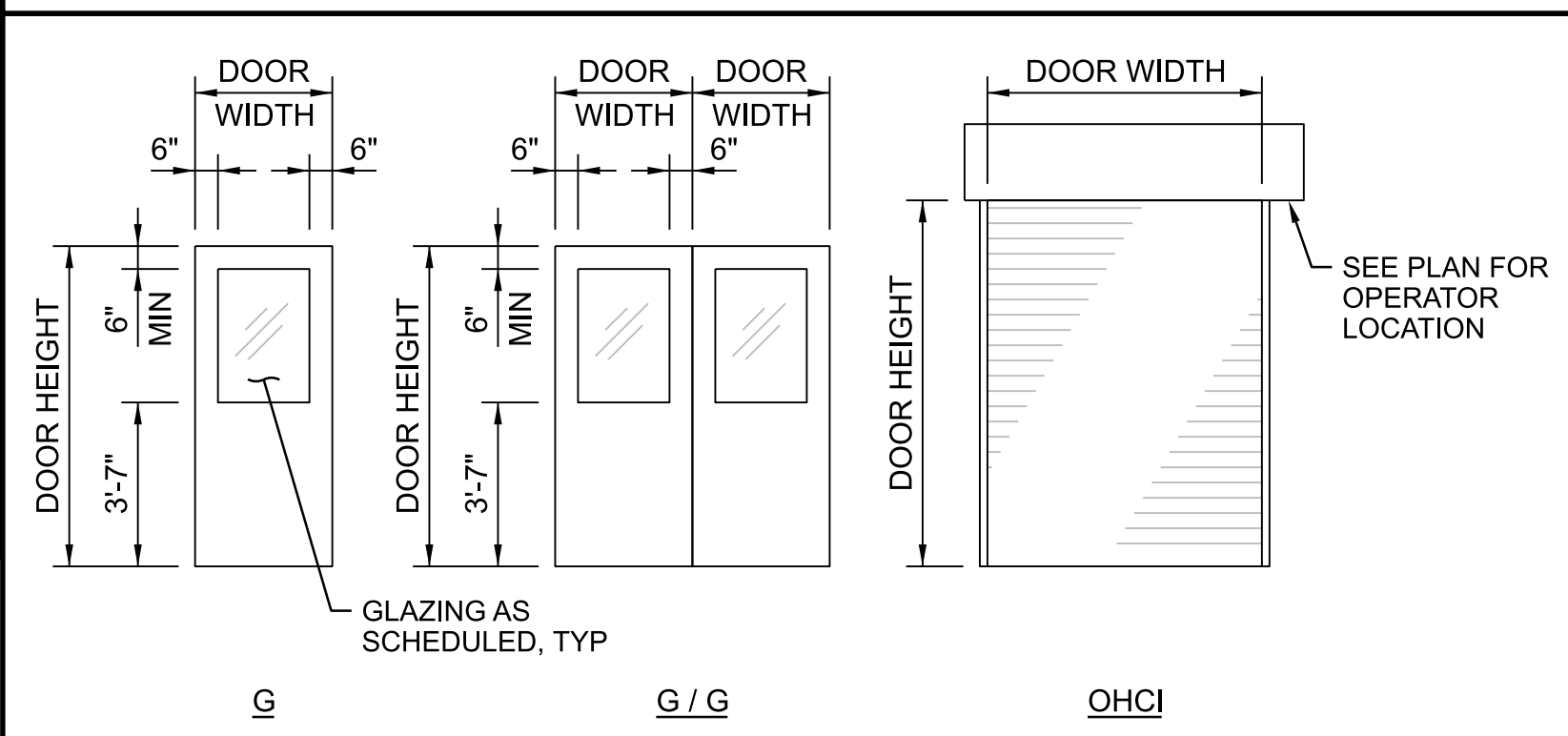
LOUVER SCHEDULE

LOUVER TYPE ABBREVIATIONS:				OTHER ABBREVIATIONS:						NOTES:					
DB	DRAINABLE BLADE			AL	ALUMINUM			FCTY	FACTORY		NO. 1	FOR LOUVER DETAILS, SEE STANDARD DETAILS.			
				EL	ELEVATION						NO. 2	CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.			
OPENING										SILLS			OTHER REQUIREMENTS		
NO.	SIZE		LOUVER				DETAILS								
	WIDTH	HEIGHT	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	MATL	COL	HEIGHT			
300-L01	8'-0"	5'-4"	AL	DB	FCTY	O-2	0890-003	0890-005	0890-004	AL	O-2	EL 4533.16	BIRD SCREEN		
300-L02	10'-0"	7'-4"	AL	DB	FCTY	O-2	0890-003	0890-005	0890-010	AL	O-2	EL 4521.16			
300-L03	7'-4"	7'-4"	AL	DB	FCTY	O-2	0890-003	0890-005	0890-010	AL	O-2	EL 4521.16	BIRD SCREEN		
300-L04	6'-8"	4'-0"	AL	DB	FCTY	O-2	0890-003	0890-005	0890-004	AL	O-2	EL 4531.83			
300-L05	3'-4"	6'-8"	AL	DB	FCTY	O-2	0890-003	0890-005	0890-004	AL	O-2	EL 4531.83			

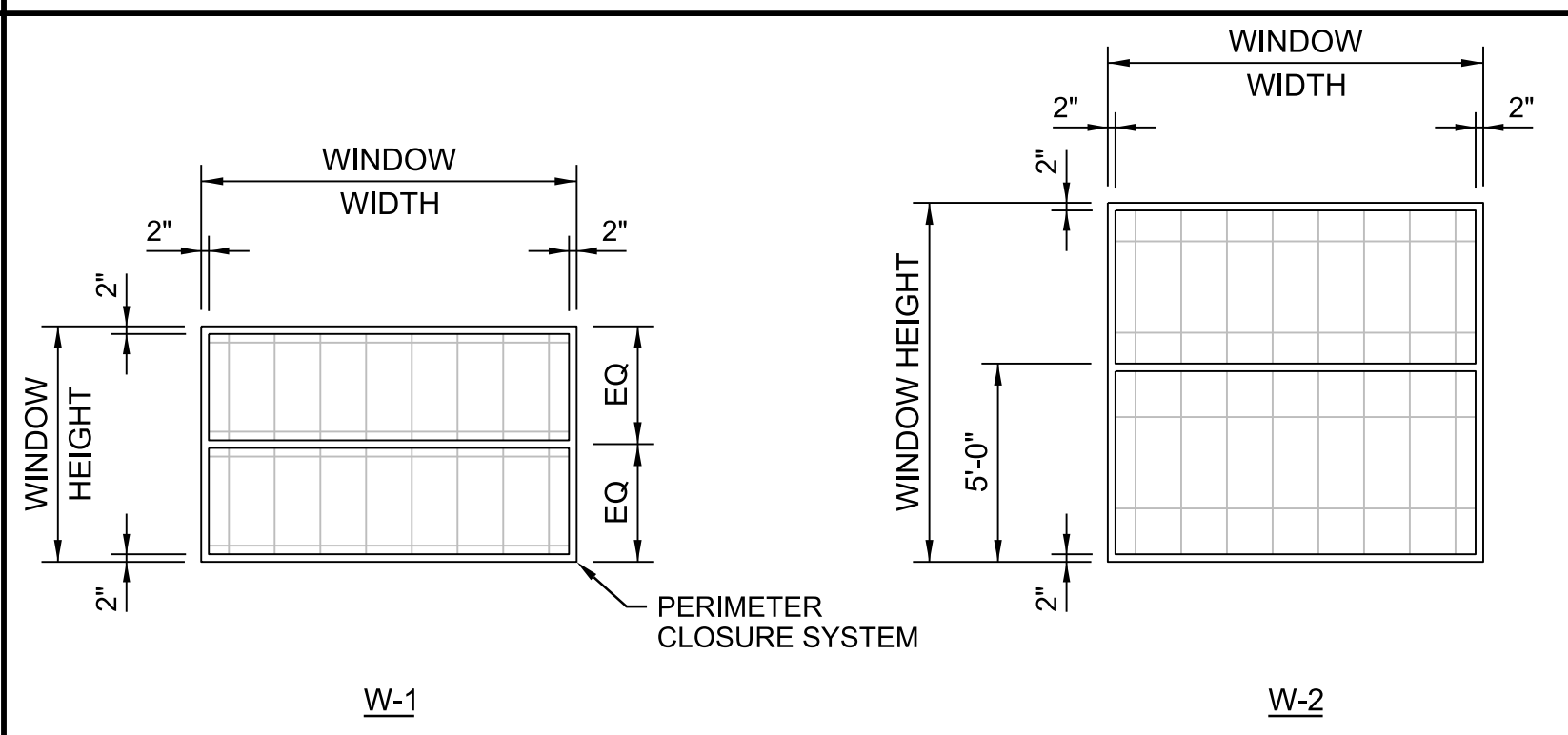
WINDOW SCHEDULE

WINDOW TYPE ABBREVIATIONS:				OTHER ABBREVIATIONS:				NOTES:									
TWP	TRANSLUCENT WALL PANEL			AL	ALUMINUM			FG	FIBERGLASS FACE SHEET		NO. 1	SEE THIS SHEET FOR WINDOW TYPES.					
				EL	ELEVATION						NO. 2	FOR FRAME DETAILS, SEE STANDARD DETAILS.					
				FCTY	FACTORY						NO. 3	CODES IN COL COLUMN REFER TO COLOR LIST ON THIS DRAWING.					
OPENING												BLINDS		SILLS		OTHER REQUIREMENTS	
NO.	SIZE		WINDOW		FRAME				DETAILS								
	WIDTH	HEIGHT	TYPE	GLASS	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	YES / NO	COLOR	MATL	COLOR	HEIGHT	
300W-01	8'-0"	9'-4"	TWP	FG	AL	W-2	FCTY	O-3	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4521.16	
300W-02	10'-0"	5'-4"	TWP	FG	AL	W-1	FCTY	O-3	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4533.16	
300W-03	8'-0"	5'-4"	TWP	FG	AL	W-1	FCTY	O-3	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4533.16	
300W-04	10'-0"	5'-4"	TWP	FG	AL	W-1	FCTY	O-3	0845-003	0845-003 SIM	0845-004	NO	---	---	---	EL 4533.16	

DOOR TYPES



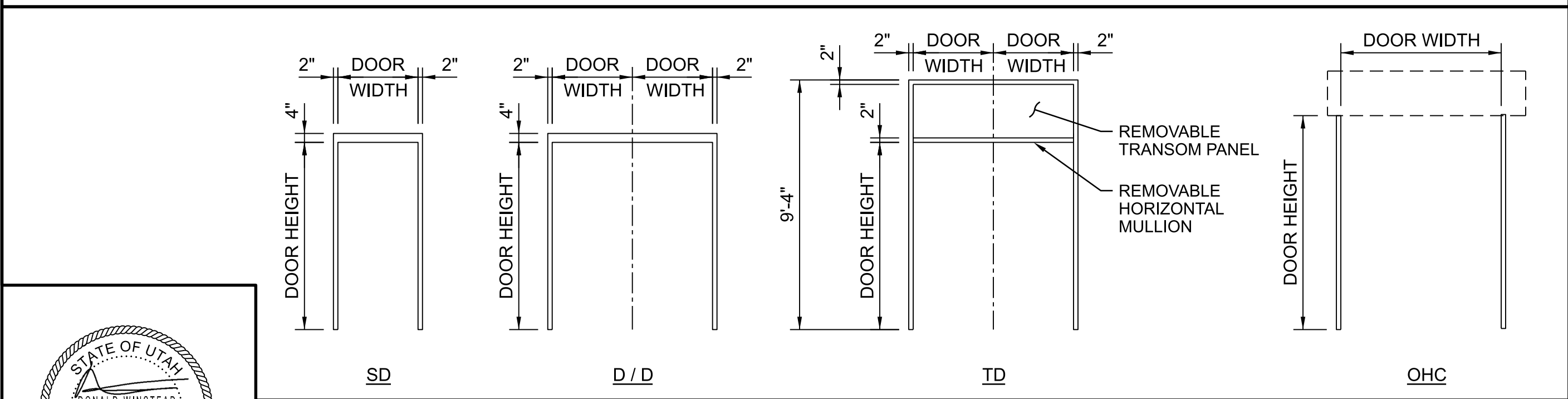
WINDOW TYPES



DOOR AND HARDWARE SCHEDULE

ABBREVIATIONS:													NOTES:					
COL	COLOR												NO. 1	SEE THIS SHEET FOR DOOR AND FRAME TYPES.				
EXT	EXTERIOR												NO. 2	FOR DOOR DETAILS, SEE STANDARD DETAILS.				
FCTY	FACTORY												NO. 3	NUMBER CODE IN HARDWARE SET COLUMN REFERS TO HARDWARE SETS IN SPECIFICATION SECTION 08 71 00.				
IG-C	CLEAR INSULATING GLASS												NO. 4	NUMBERS IN FNSH COLUMN REFER TO PAINT SYSTEMS IN SPECIFICATION SECTION 09 90 00.				
HM	HOLLOW METAL												NO. 5	CODES IN COL COLUMN REFER TO TO COLOR LIST ON THIS DRAWING.				
MATL	MATERIAL												NO. 6	FOR GLASS TYPES, SEE SPECIFICATION SECTION 08 80 00.				
MET	METAL																	
SG	SAFETY GLASS																	
STL	STEEL																	
OPENING																		
NO.	SIZE		DOOR					FRAME				DETAILS			HARDWARE		FIRE PROTECTION	OTHER REQUIREMENTS
	WIDTH	HEIGHT	CONSTR	TYPE	GLASS	FINISH	COL	MATL	TYPE	FINISH	COL	HEAD	JAMB	SILL	SET NO.	KEY SIDE	RATING	
300101A	(2) 3'-2"	7'-0"	HM	G / G	IG-C	5	P-3	HM	D / D	5	P-3	0811-005	0811-006	0871-001	1	EXT	---	DOOR POSITION SWITCH
300101B	10'-0"	10'-0"	MET	OHCI	---	FCTY	O-1	STL	OHC	FCTY	O-1	0833-009	0833-010	0833-010	11	---	---	DOOR POSITION SWITCH
300101C	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	2	EXT	---	CARD READER / DOOR POSITION SWITCH
300101D	3'-0"	7'-0"	HM	G	IG-C	5	P-3	HM	SD	5	P-3	0811-005	0811-006	0871-001	2	EXT	---	CARD READER / DOOR POSITION SWITCH
300104A	(2) 3'-4"	7'-0"	HM	G / G	IG-C	5	P-3	HM	TD	5	P-3	0811-007	0811-006	0871-001	3	EXT	---	CARD READER / DOOR POSITION SWITCH
300104B	3'-0"	7'-0"	HM	G	SG	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-002	4	300101	---	"ELECTRICAL ROOM"
300105A	3'-0"	7'-0"	HM	G	SG	5	P-3	HM	SD	5	P-3	0811-003	0811-004	0871-002	13	300101	---	"BACKUP GENERATOR ROOM" / SOUND-RETARDANT DOOR AND FRAME

DOOR FRAME TYPES



DSGN	E GRAY / D WINSTEAD							VERIFY SCALE
DR	M COLLINS							BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	G KIRSTEN							0 1/4" = 1'
APVD	S MENK							IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
		NO.	DATE		REVISION		BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
ARCHITECTURAL
SCHEDULES

SHEET	441
DWG	300-A-6001
DATE	MARCH 2023
PROJ	W7Y47300

PHOTOMETRIC PLAN

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WITH ASSOCIATED LUMINAIRE TYPE

PART 3:
LUMINAIRE SCHEDULE

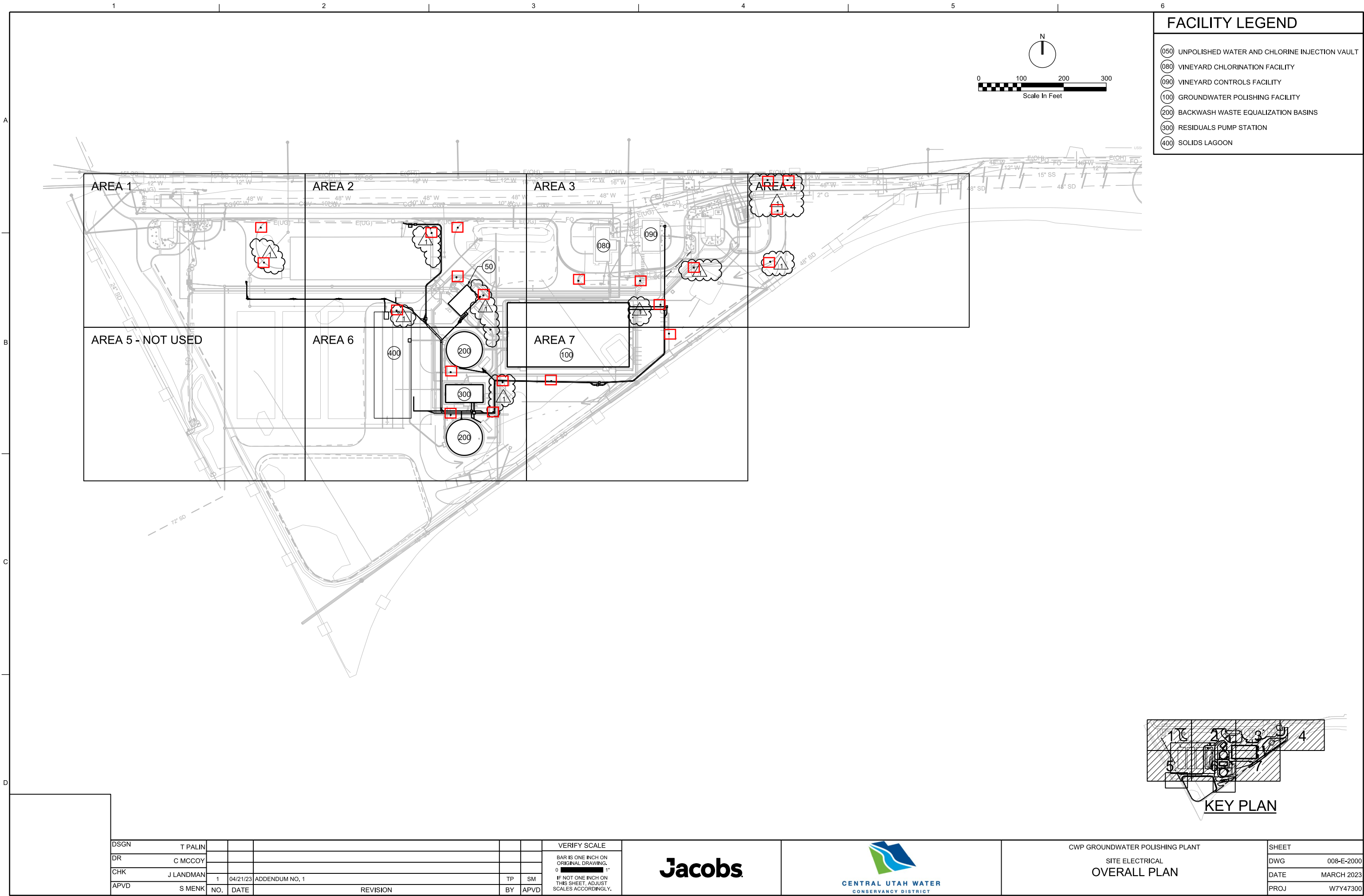
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PHOTOMETRIC PLAN

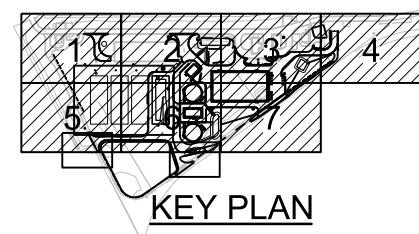
PART 1:

SITE PLAN INDICATING EXTERIOR LUMINAIRES WITH
ASSOCIATED LUMINAIRE TYPE



FACILITY LEGEND

- 050 UNPOLISHED WATER AND CHLORINE INJECTION VAULT
- 080 VINEYARD CHLORINATION FACILITY
- 090 VINEYARD CONTROLS FACILITY
- 100 GROUNDWATER POLISHING FACILITY
- 200 BACKWASH WASTE EQUALIZATION BASINS
- 300 RESIDUALS PUMP STATION
- 400 SOLIDS LAGOON



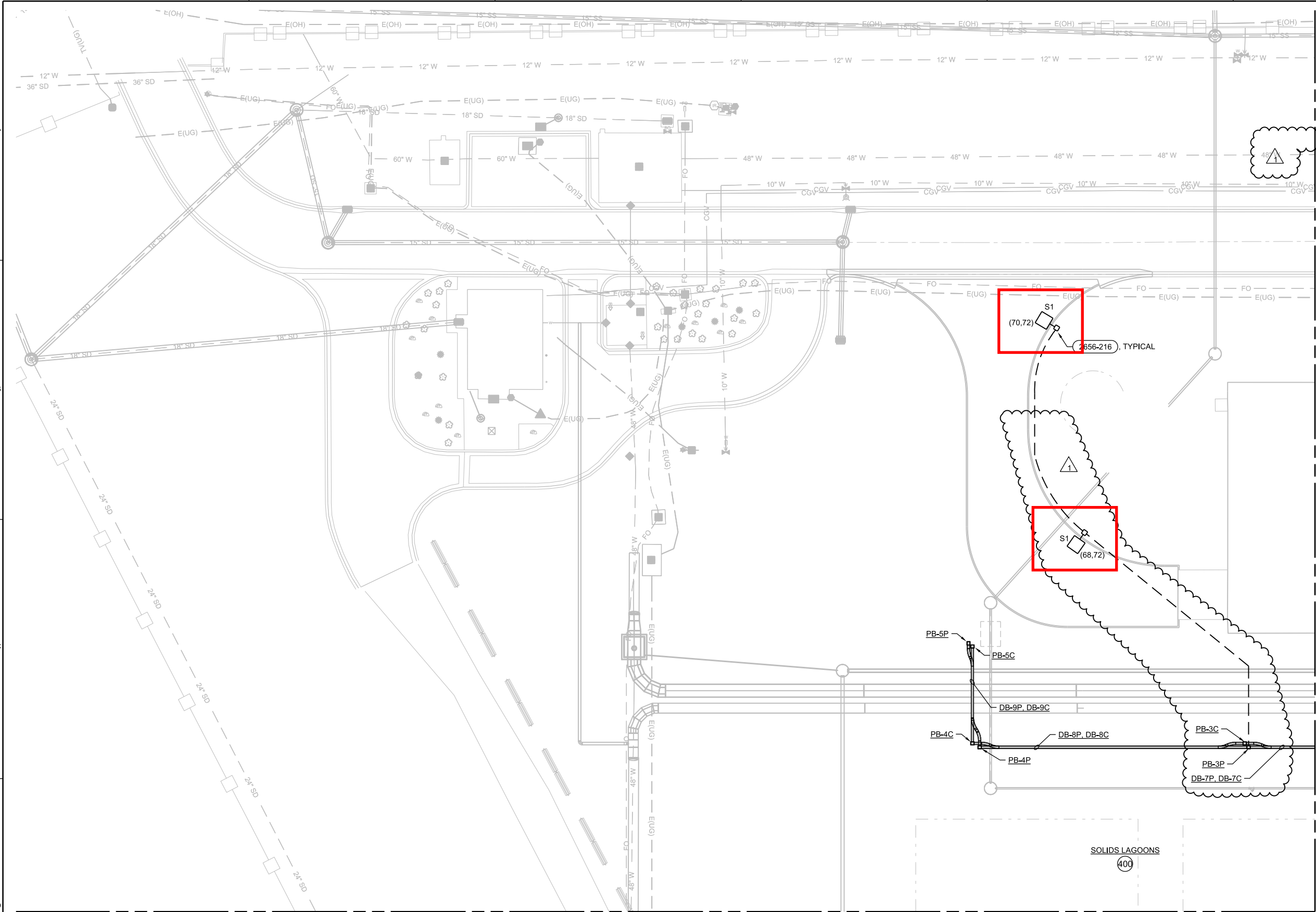
DSGN	T PALIN						VERIFY SCALE
DR	C MCCOY						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1		TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs

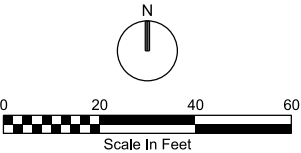
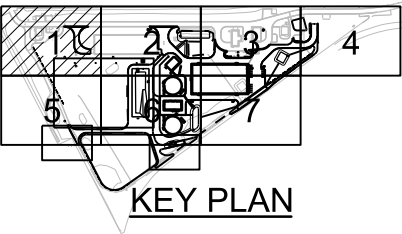


CWP GROUNDWATER POLISHING PLANT
SITE ELECTRICAL
OVERALL PLAN

SHEET	
DWG	008-E-2000
DATE	MARCH 2023
PROJ	W7Y47300



- ### GENERAL NOTES
1. INSTALL DUCTBANKS IN AREAS NOT UNDER ROADWAYS PER STANDARD DETAIL 2605-420
 2. INSTALL DUCTBANKS UNDER ROADWAYS PER STANDARD DETAIL 2605-400
 3. PROVIDE 1\"C, 3#10 1#10G BURIED A MINIMUM OF 18 INCHES BELOW GRADE TO ALL POLE MOUNTED LIGHT FIXTURES. PROVIDE 1\" SPARE CONDUIT FOR LIGHTING CIRCUIT.
 4. POLE MOUNT EXTERIOR LUMINAIRES 16'-0\" AFG, TYP.
 5. NUMBER SHOWN IN PARENTHESIS (N), ADJACENT TO LIGHT DENOTE CIRCUIT NUMBER IN FACILITY 100, PANELBOARD PNL-905-03.
 6. ALL EXTERIOR LUMINAIRES ARE CONTROLLED VIA LIGHTING CONTACTOR (LC) PER DETAIL 2650-104



DSGN	T PALIN					VERIFY SCALE
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
SITE ELECTRICAL
AREA 1

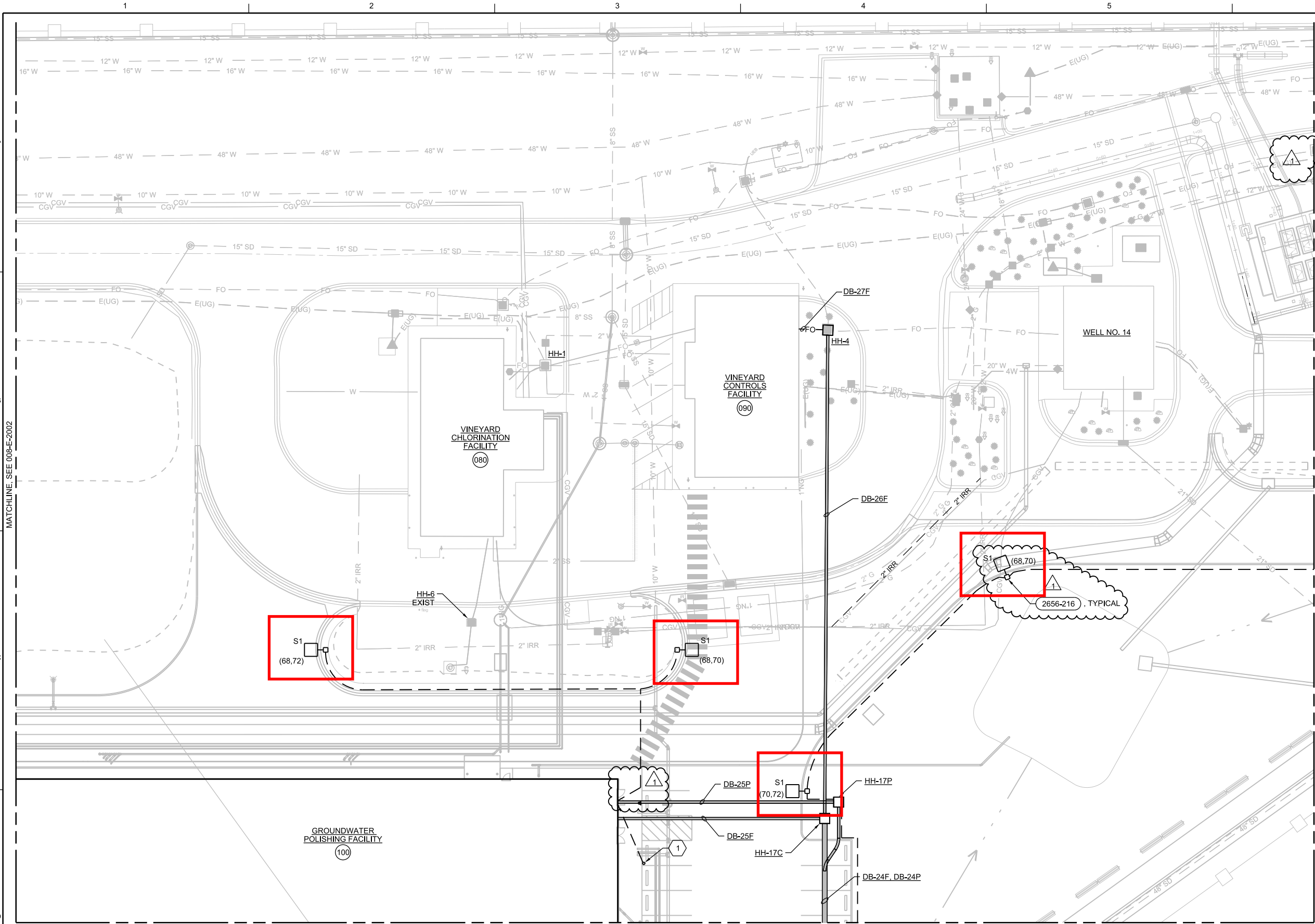
SHEET	
DWG	008-E-2001
DATE	MARCH 2023
PROJ	W7Y47300

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PLOT DATE:

PLOT TIME:

100% DESIGN

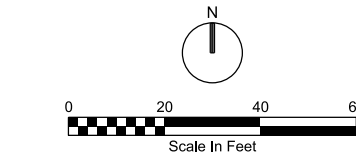
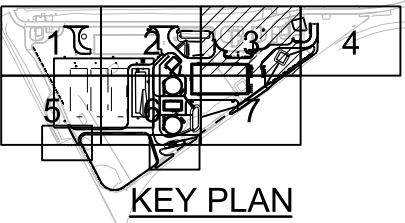


GENERAL NOTES

1. INSTALL DUCTBANKS IN AREAS NOT UNDER ROADWAYS PER STANDARD DETAIL 2605-420
2. INSTALL DUCTBANKS UNDER ROADWAYS PER STANDARD DETAIL 2605-400
3. PROVIDE 1" C, 3#10 1#10G BURIED A MINIMUM OF 18 INCHES BELOW GRADE TO ALL POLE MOUNTED LIGHT FIXTURES. PROVIDE 1" SPARE CONDUIT FOR LIGHTING CIRCUIT.
4. POLE MOUNT EXTERIOR LUMINAIRES 16'-0" AFG, TYP.
5. NUMBER SHOWN IN PARENTHESIS (N), ADJACENT TO LIGHT DENOTE CIRCUIT NUMBER IN FACILITY 100, PANELBOARD PNL-905-03.
6. ALL EXTERIOR LUMINAIRES ARE CONTROLLED VIA LIGHTING CONTACTOR (LC) PER DETAIL 2650-104 LOCATED IN FACILITY 100.
7. PROVIDE 2" C PVC WITH LONG SWEEP ELBOWS FOR FIBER.

SHEET KEYNOTES

1. STUB-UP 2" CONDUIT INTO CONCRETE PAD FOR FUTURE EV CHARGING STATION.



KEY PLAN

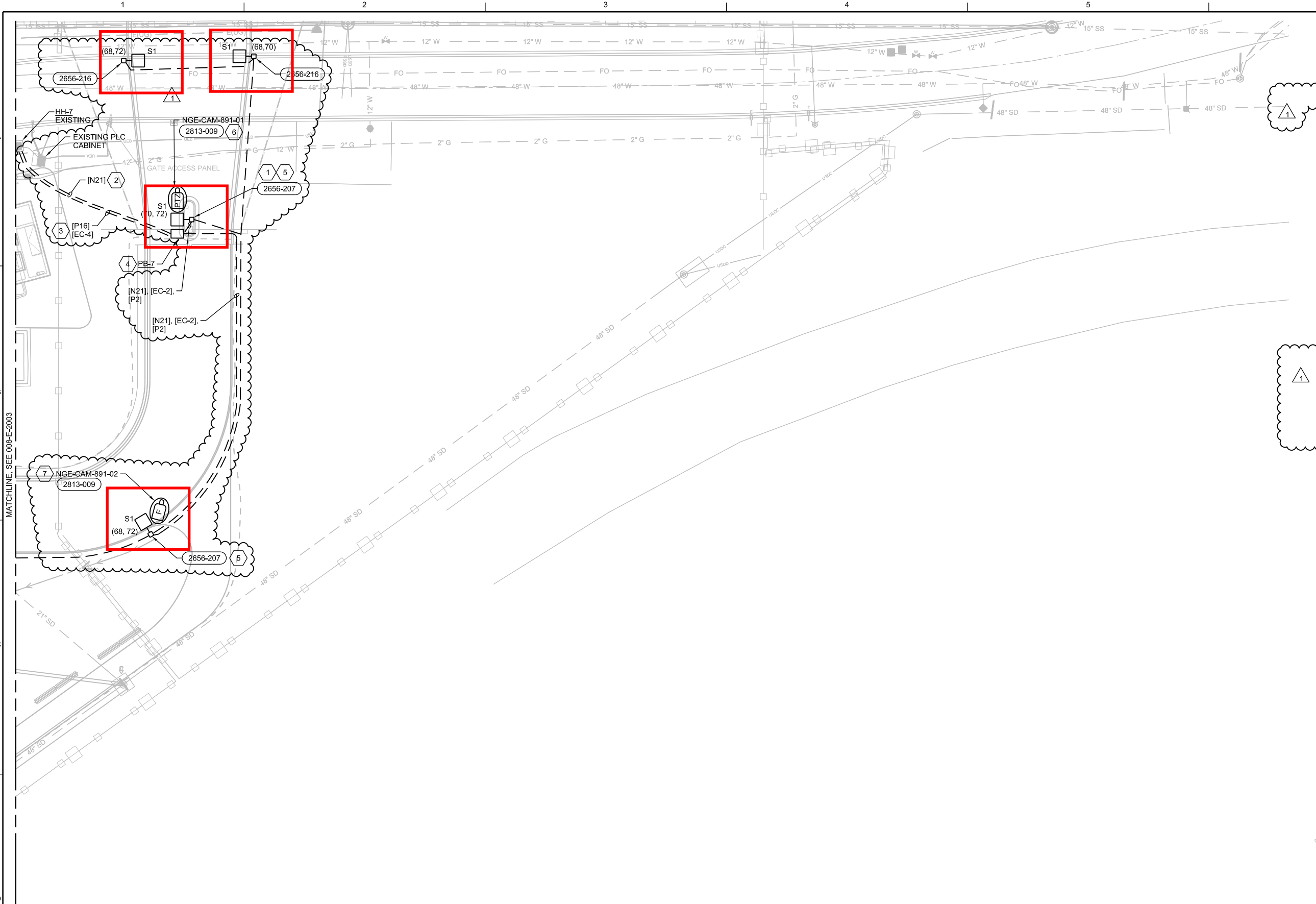
DSGN	T PALIN						VERIFY SCALE
DR	C MCCOY						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1		TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs



CWP GROUNDWATER POLISHING PLANT
SITE ELECTRICAL
AREA 3

SHEET	
DWG	008-E-2003
DATE	MARCH 2023
PROJ	W7Y47300

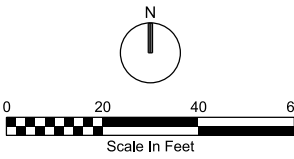
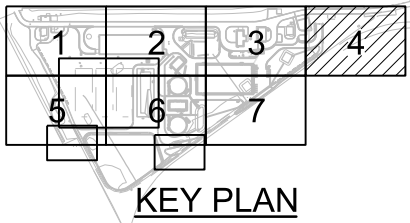


GENERAL NOTES

1. PROVIDE 1" C, 3#10 1#10G BURIED A MINIMUM OF 18 INCHES BELOW GRADE TO ALL POLE MOUNTED LIGHT FIXTURES. PROVIDE 1" SPARE CONDUIT FOR LIGHTING CIRCUIT.
2. POLE MOUNT EXTERIOR LUMINAIRES 16'-0" AFG. TYP.
3. NUMBER SHOWN IN PARENTHESIS (N), ADJACENT TO LIGHT DENOTE CIRCUIT NUMBER IN FACILITY 100, PANELBOARD PNL-905-03.
4. ALL EXTERIOR LUMINAIRES ARE CONTROLLED VIA LIGHTING CONTRACTOR (LC) PER DETAIL 2650-104 LOCATED IN FACILITY 100.

SHEET KEYNOTES

1. FIELD LOCATION LIGHT POLE LOCATION WITH ENTRY ISLAND.
2. PROVIDE FIBER OPTIC CIRCUIT FROM HH-7 TO PULLBOX FOR NEW ENTRY ISLAND CONTROL. PROVIDE FIBER OPTIC SPLICE TO CONNECT TO EXISTING FIBER SYSTEM AS DIRECTED BY OWNER.
3. EXTEND EXISTING SECURITY POWER FROM HH-7 TO NEW PULLBOX FOR NEW ENTRY ISLAND CONTROL. PROVIDE WATER TIGHT SPLICE IN HH-7.
4. FIELD LOCATE PULLBOX LOCATED WITHIN ENTRY ISLAND.
5. PROVIDE COMBINED CAMERA/LIGHT POLE. CAMERA MOUNTED ABOVE THE LIGHT, LUMINAIRE AT 16' AFG.
6. CAMERA TO BE RELOCATED FROM EXISTING ENTRANCE. COORDINATE FINAL PLACEMENT WITH OWNER AND ENGINEER.
7. SECURITY CAMERA SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.

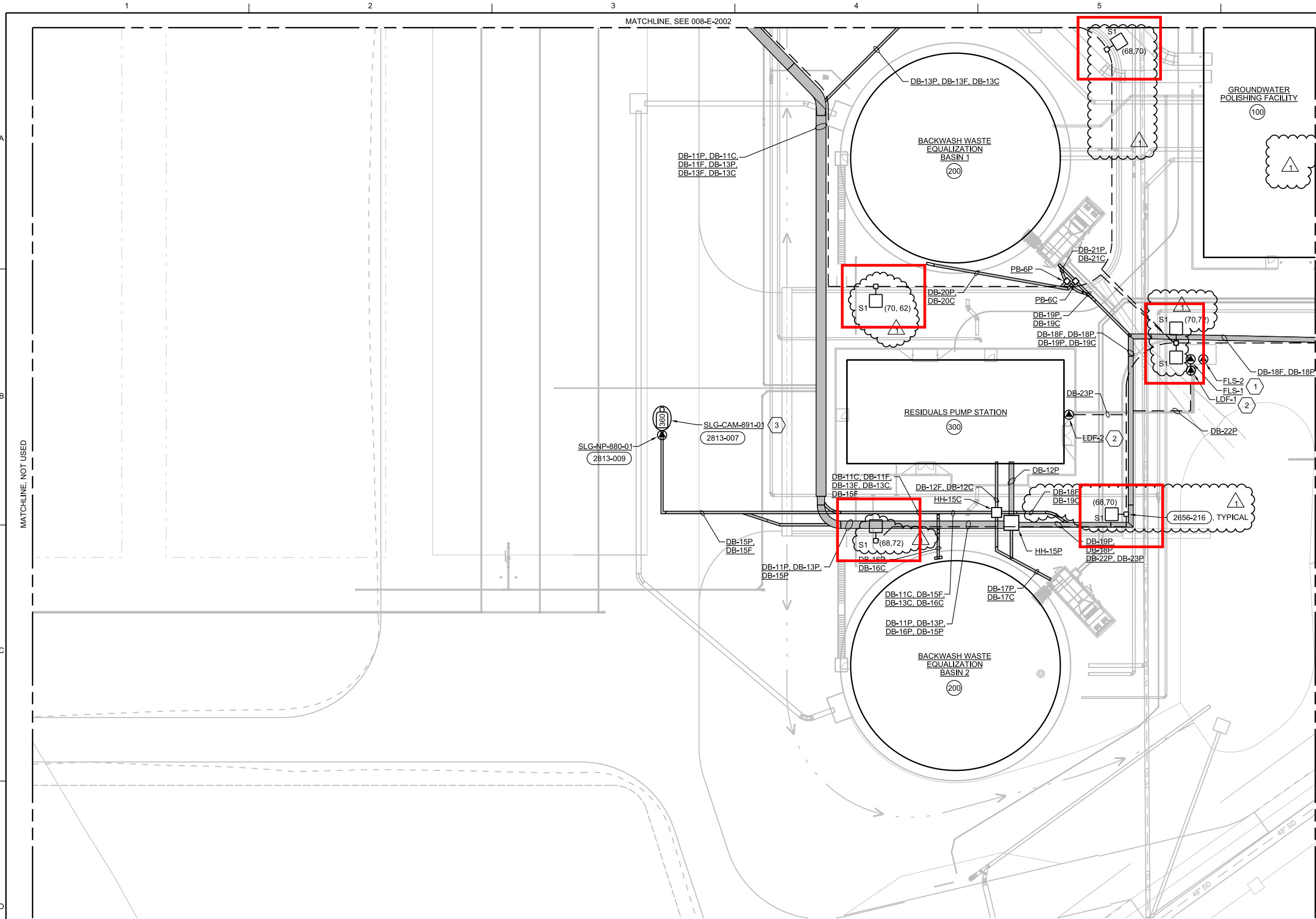


DSGN	T PALIN					VERIFY SCALE
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD



CWP GROUNDWATER POLISHING PLANT
SITE ELECTRICAL
AREA 4

SHEET	
DWG	008-E-2004
DATE	MARCH 2023
PROJ	W7Y47300

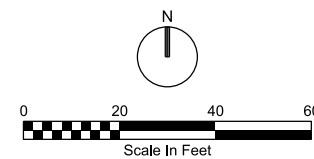
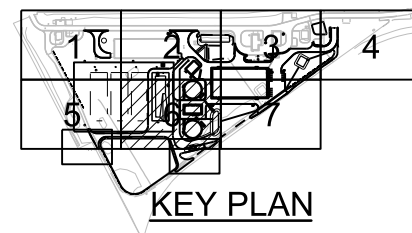


GENERAL NOTES

1. INSTALL DUCTBANKS IN AREAS NOT UNDER ROADWAYS PER STANDARD DETAIL 2605-420
2. INSTALL DUCTBANKS UNDER ROADWAYS PER STANDARD DETAIL 2605-400
3. PROVIDE 1" C, 3#10 1#10G BURIED A MINIMUM OF 18 INCHES BELOW GRADE TO ALL POLE MOUNTED LIGHT FIXTURES. PROVIDE 1" SPARE CONDUIT FOR LIGHTING CIRCUIT.
4. POLE MOUNT EXTERIOR LUMINAIRES 16'-0" AFG, TYP.
5. NUMBER SHOWN IN PARENTHESIS (N), ADJACENT TO LIGHT DENOTE CIRCUIT NUMBER IN FACILITY 100, PANELBOARD PNL-905-03.
6. ALL EXTERIOR LUMINAIRES ARE CONTROLLED VIA LIGHTING CONTACTOR (LC) PER DETAIL 2650-104 LOCATED IN FACILITY 100.
7. PROVIDE 2 C PVC WITH LONG SWEEP ELBOWS FOR FIBER.

SHEET KEYNOTES

1. FUEL LEVEL SENSOR (FLS) LOCATED ON THE DIESEL FUEL TANK. SEE DRAWING 300-P-5001 FOR DETAILS.
2. LEAK DETECTION FLOAT (LDF) LOCATED IN THE WATER/FUEL VAULT. SEE DRAWING 300-P-5001 FOR DETAILS.
3. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.



DSGN	T PALIN					VERIFY SCALE
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs



CWP GROUNDWATER POLISHING PLANT
SITE ELECTRICAL
AREA 6

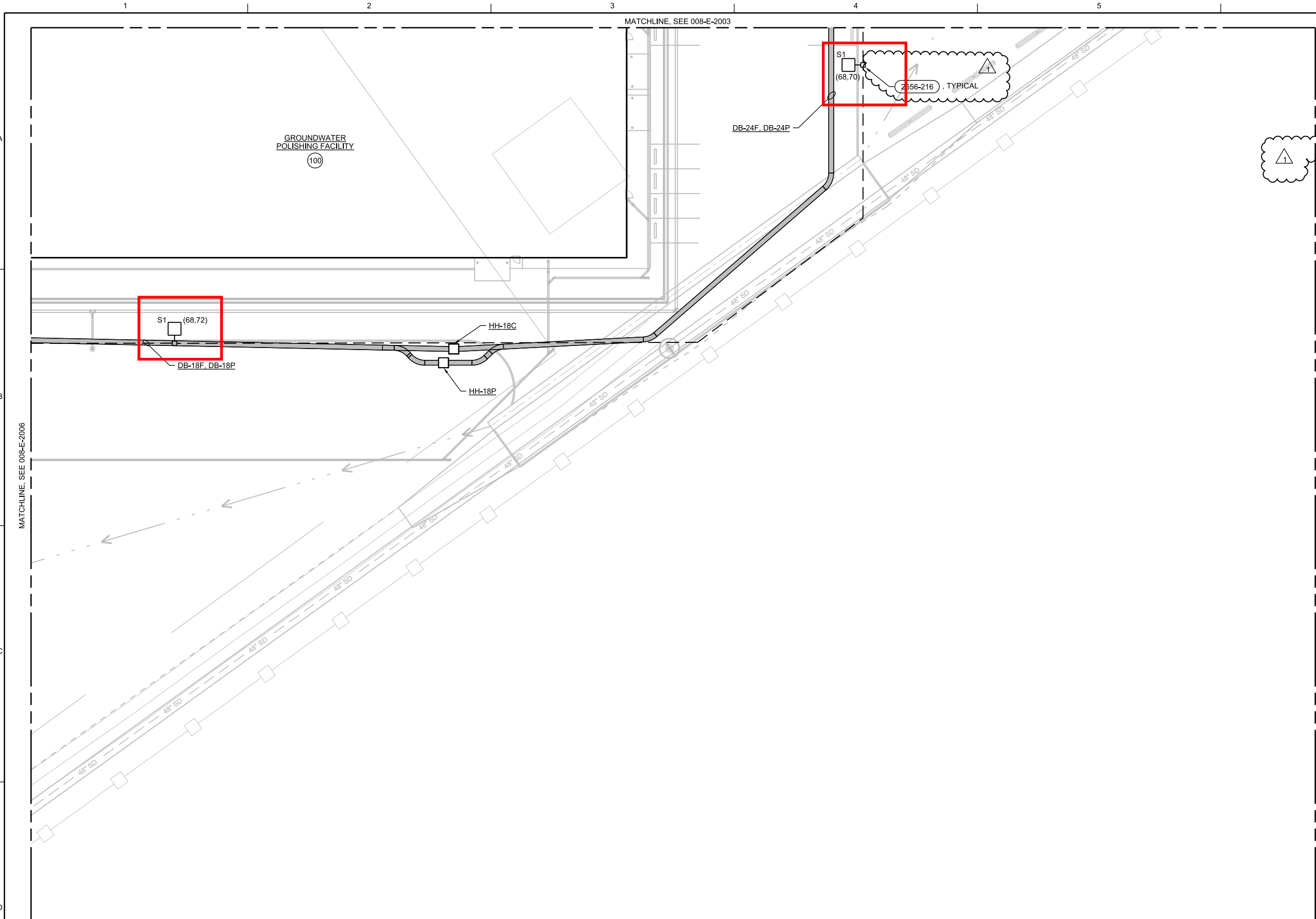
SHEET	
DWG	008-E-2006
DATE	MARCH 2023
PROJ	W7Y47300

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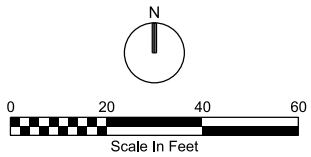
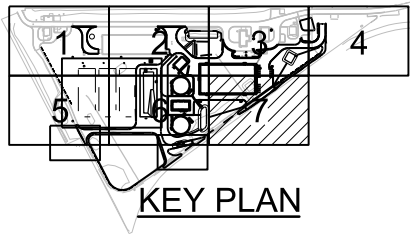
PLOT DATE:

PLOT TIME:

100% DESIGN



- ### GENERAL NOTES
1. INSTALL DUCTBANKS IN AREAS NOT UNDER ROADWAYS PER STANDARD DETAIL 2605-420
 2. INSTALL DUCTBANKS UNDER ROADWAYS PER STANDARD DETAIL 2605-400
 3. PROVIDE 1" C, 3#10 1#10G BURIED A MINIMUM OF 18 INCHES BELOW GRADE TO ALL POLE MOUNTED LIGHT FIXTURES. PROVIDE 1" SPARE CONDUIT FOR LIGHTING CIRCUIT.
 4. POLE MOUNT EXTERIOR LUMINAIRES 16'-0" AFG. TYP.
 5. NUMBER SHOWN IN PARENTHESIS (N), ADJACENT TO LIGHT DENOTE CIRCUIT NUMBER IN FACILITY 100, PANELBOARD PNL-905-03.
 6. ALL EXTERIOR LUMINAIRES ARE CONTROLLED VIA LIGHTING CONTACTOR (LC) PER DETAIL 2650-104 LOCATED IN FACILITY 100.
 7. PROVIDE 2 C PVC WITH LONG SWEEP ELBOWS FOR FIBER.



DSGN	T PALIN						VERIFY SCALE
DR	C MCCOY						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

Jacobs



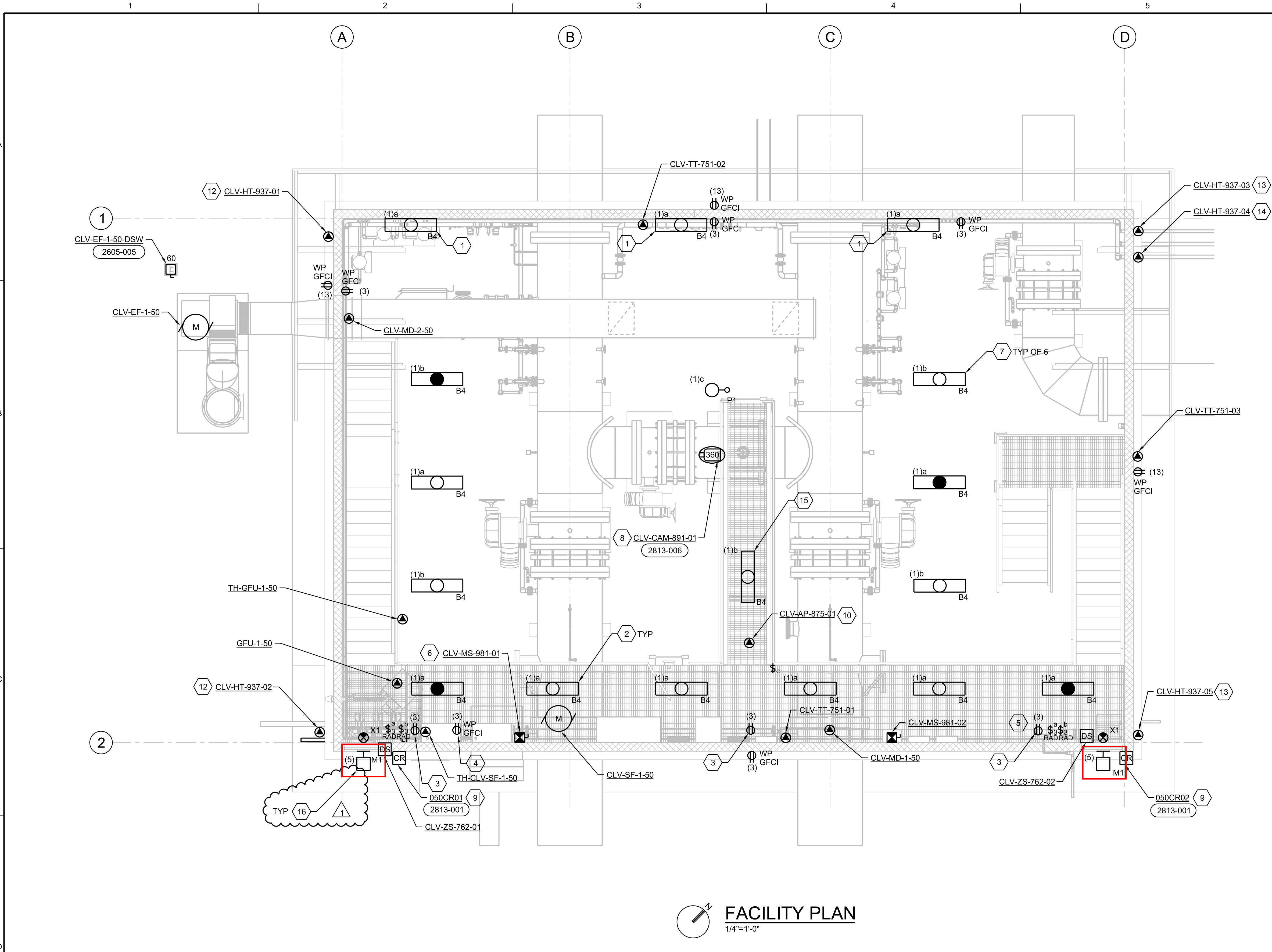
CWP GROUNDWATER POLISHING PLANT
SITE ELECTRICAL
AREA 7

SHEET	
DWG	008-E-2007
DATE	MARCH 2023
PROJ	W7Y47300

PHOTOMETRIC PLAN

PART 2:

BUILDING PLAN INDICATING EXTERIOR LUMINAIRES
WITH ASSOCIATED LUMINAIRE TYPE



GENERAL NOTES

- SEE LUMINAIRE SCHEDULE DRAWING FOR LIGHTING FIXTURE DETAILS.
- PROVIDE BOTH A SWITCHED CIRCUIT AND UNSWITCHED CIRCUIT FOR ALL LUMINAIRES THAT HAVE EMERGENCY BATTERY PACK.
- RECEPTACLES AND LIGHTS SHOWN ON THIS DRAWING SHALL BE FED FROM PANELBOARD RPS-PNL-905-01. CIRCUITS AS INDICATED, CONTRACTOR SHALL PROVIDE 3/4" C, #12 CONDUCTORS WITH #12 GROUND WIRE FOR CIRCUIT LENGTHS LESS THAN 75 FEET. CONTRACTORS WITH #10 GROUND WIRE FOR CIRCUIT LENGTHS GREATER THAN 75 FEET. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
- B4 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.

SHEET KEYNOTES

- WALL MOUNT LUMINAIRES AT 12'-0" AFF.
- MOUNT LUMINAIRES THAT ARE ABOVE THE WALKWAY GRATING AT 10'-0" ABOVE TOP OF GRATING.
- MOUNT 36" ABOVE TOP OF GRATING.
- MOUNT BELOW GRATING AT 36" AFF.
- PROVIDE MOTOR STARTER FOR EXHAUST FAN CLV-EF-1-50.
- PROVIDE MOTOR STARTER FOR SUPPLY FAN CLV-SF-1-50.
- MOUNT LUMINAIRES AT 12'-0" AFF.
- CEILING MOUNTED 360-DEGREE CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
- KEY OVERRIDE ON RIM MOUNTED STRIKE WHEN FIRE ALARM IS TRIGGERED.
- INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 10'-0" ABOVE TOP OF GRATING. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
- PROVIDE WIRELESS, LINE-POWERED WALL MOUNTED LIGHT SWITCHES. SWITCHES SHALL MANUALLY CONTROL INDICATED LUMINAIRES WITH ON/OFF AND DIMMING CONTROLS VIA RADIO SIGNALS. MANUAL CONTROLS SHALL COORDINATE WITH INTEGRAL DAYLIGHT RESPONSIVE CONTROLS IN EACH LUMINAIRE.
- GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX ABOVE CANOPY AS NEAR AS POSSIBLE TO GUTTER.
- GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX UNDER EAVES AS NEAR AS POSSIBLE TO GUTTER.
- RAIN GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX UNDER EAVES AS NEAR AS POSSIBLE TO GUTTER.
- MOUNT LUMINAIRE AT THE BOTTOM OF GRATING.
- MOUNT LUMINAIRE AT 8'-8" AFF.

 **FACILITY PLAN**
1/4"=1'-0"

DSGN	T PALIN						VERIFY SCALE
DR	C MCCOY						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1		TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

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CWP GROUNDWATER POLISHING PLANT
UNPOLISHED WATER AND CHLORINE INJECTION VAULT
**ELECTRICAL
FACILITY PLAN**

SHEET	
DWG	050-EF-2001
DATE	MARCH 2023
PROJ	W7Y47300

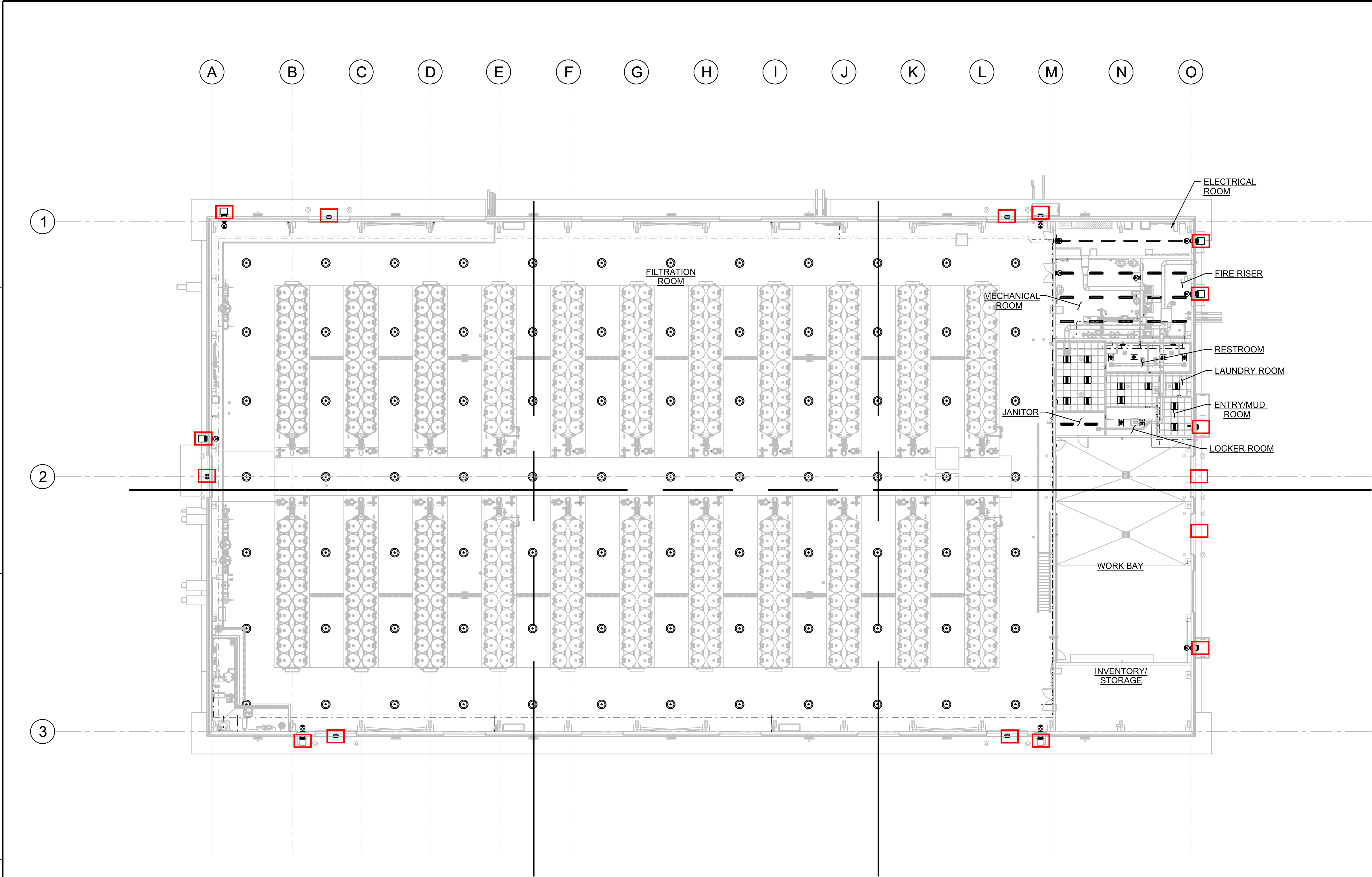
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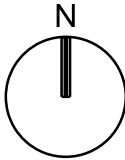
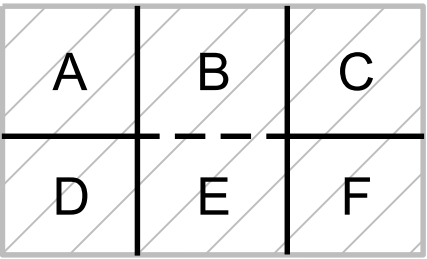
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OVERALL FACILITY FLOOR PLAN

1/16"=1'-0"



KEYPLAN

DSGN	T PALIN						
DR	C MCCOY						
CHK	J LANDMAN						
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0 1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
ELECTRICAL
OVERALL FACILITY FLOOR PLAN

SHEET	
DWG	100-EF-2001
DATE	MARCH 2023
PROJ	W7Y47300

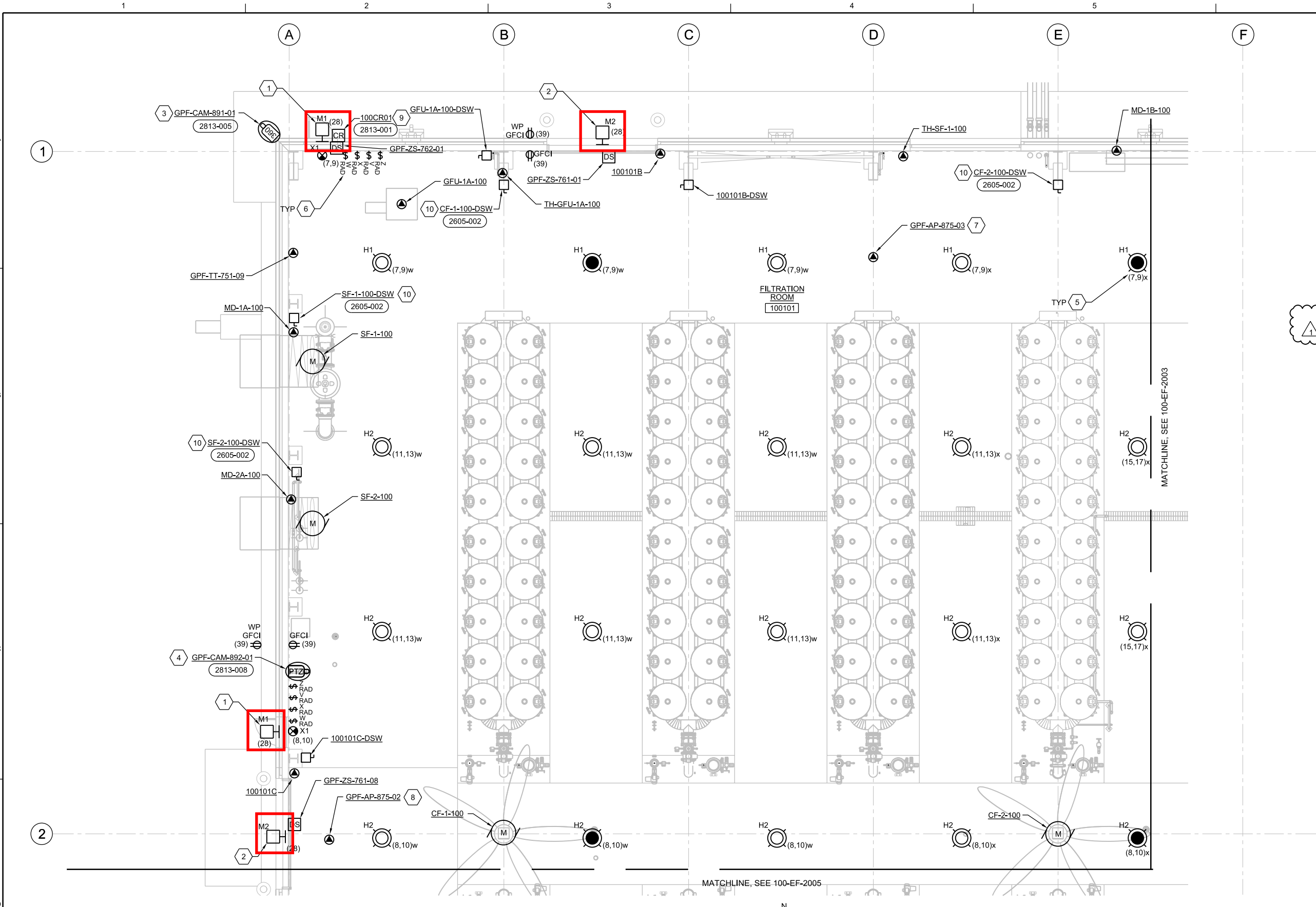
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PLOT DATE:

PLOT TIME:

100% DESIGN

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FACILITY FLOOR PLAN - AREA A
3/16"=1'-0"

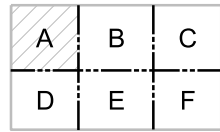


GENERAL NOTES

1. MOUNT TYPE H1 LUMINAIRES AT 15'-0" AFF.
2. MOUNT TYPE H2 LUMINAIRES AT 19'-0" AFF.
3. EXIT AND EMERGENCY LUMINAIRES SHALL BE POWERED FROM THE SAME CIRCUIT AS NON-EMERGENCY LUMINAIRES IN THE SAME SPACE.
4. POWER WIRELESS RADIO CONTROL LIGHT SWITCHES FROM THE SAME CIRCUIT POWER AS LIGHT FIXTURES THAT THEY CONTROL.
5. H1 AND H2 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.
6. WITH THE EXCEPTION OF LIGHTING, CIRCULATION FANS OR OTHER APPROVED DEVICES, ALL CONDUIT SHALL BE ROUTED BELOW GRADE UNDER FLOOR SLAB TO EQUIPMENT OR DEVICES. CAREFULLY PLAN CONDUIT ROUTING PER SPECIFICATIONS.

SHEET KEYNOTES

1. MOUNT LUMINAIRES AT 7'-10" AFF.
2. MOUNT LUMINAIRES AT 15'-0" AFF.
3. 360-DEGREE CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
4. PTZ CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
5. LIGHTING AND RECEPTACLE PANEL CIRCUIT NUMBER ARE FED FROM PANEL GPF-PNL-905-11 ON THIS DRAWING.
6. PROVIDE WIRELESS, LINE-POWERED WALL MOUNTED LIGHT SWITCHES. SWITCHES SHALL MANUALLY CONTROL INDICATED LUMINAIRES WITH ON/OFF AND DIMMING CONTROLS VIA RADIO SIGNALS. MANUAL CONTROLS SHALL COORDINATE WITH INTEGRAL DAYLIGHT RESPONSIVE CONTROLS IN EACH LUMINAIRE.
7. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 15' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
8. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 19' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
9. KEY OVERRIDE ON MAGLOCKS WHEN FIRE ALARM IS TRIGGERED.
10. PROVIDE READILY ACCESSIBLE DISCONNECT FOR CEILING FAN.



KEYPLAN

DSGN	T PALIN					VERIFY SCALE
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

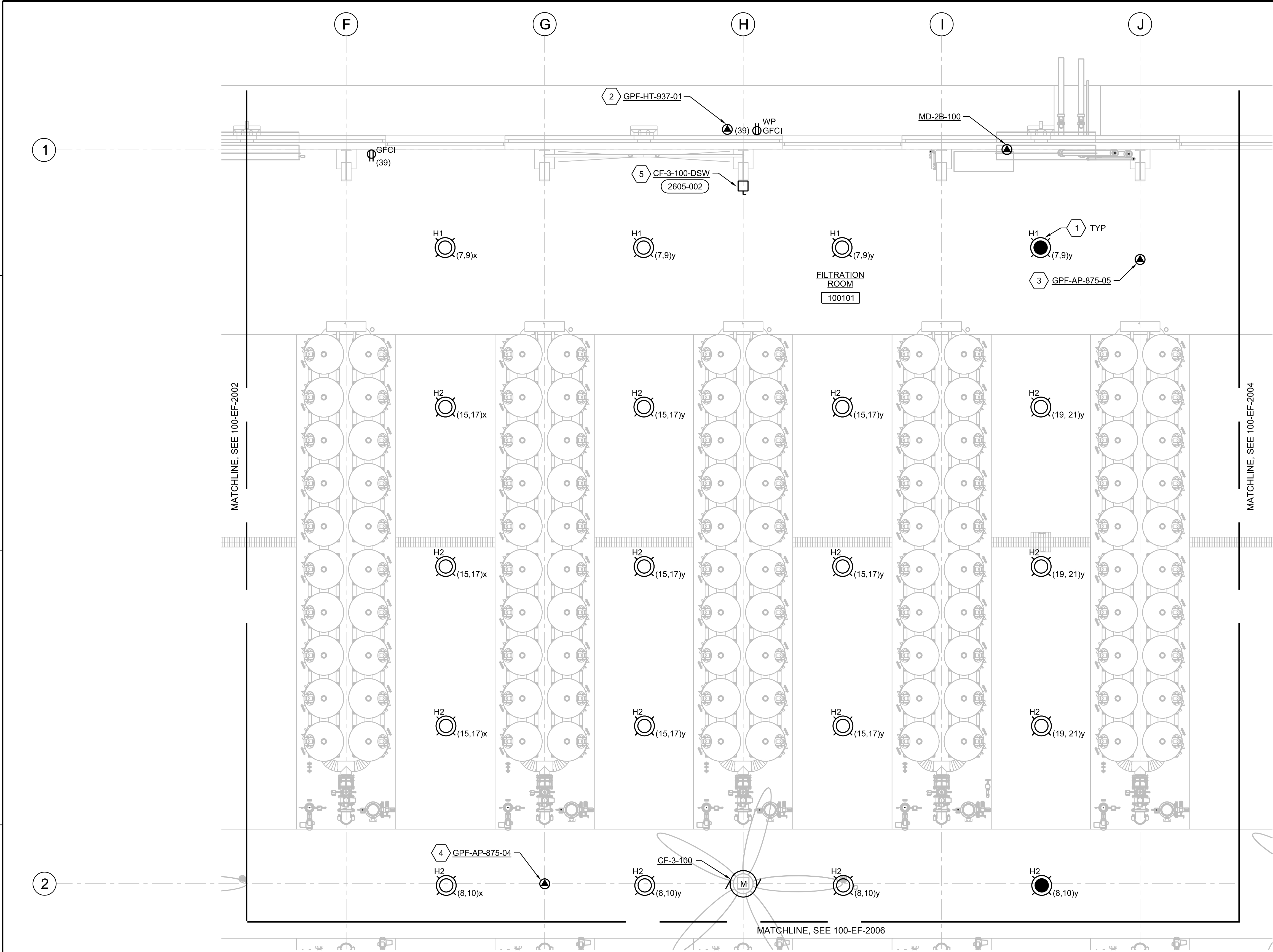
Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
ELECTRICAL
FACILITY FLOOR PLAN - AREA A

SHEET	
DWG	100-EF-2002
DATE	MARCH 2023
PROJ	W7Y47300

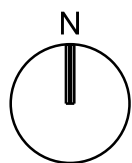
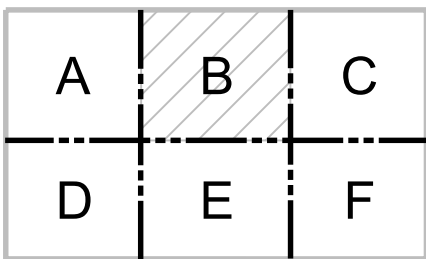
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- ### GENERAL NOTES
1. MOUNT TYPE H1 LUMINAIRES AT 15'-0" AFF.
 2. MOUNT TYPE H2 LUMINAIRES AT 19'-0" AFF.
 3. EXIT AND EMERGENCY LUMINAIRES SHALL BE POWERED FROM THE SAME CIRCUIT AS NON-EMERGENCY LUMINAIRES IN THE SAME SPACE.
 4. POWER WIRELESS RADIO CONTROL LIGHT SWITCHES FROM THE SAME CIRCUIT POWER AS LIGHT FIXTURES THAT THEY CONTROL.
 5. H1 AND H2 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.
 6. WITH THE EXCEPTION OF LIGHTING, CIRCULATION FANS OR OTHER APPROVED DEVICES, ALL CONDUITS SHALL BE ROUTED BELOW GRADE UNDER FLOOR SLAB TO EQUIPMENT OR DEVICES. CAREFULLY PLAN CONDUIT ROUTING PER SPECIFICATIONS.

- ### SHEET KEYNOTES
1. LIGHTING AND RECEPTACLE PANEL CIRCUIT NUMBER ARE FED FROM PANEL GPF-PNL-905-11 ON THIS DRAWING.
 2. GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX UNDER EAVES AS NEAR AS POSSIBLE TO GUTTER.
 3. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 15' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
 4. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 19' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
 5. PROVIDE READILY ACCESSIBLE DISCONNECT FOR CEILING FAN.

FACILITY FLOOR PLAN - AREA B
3/16"=1'-0"



KEYPLAN

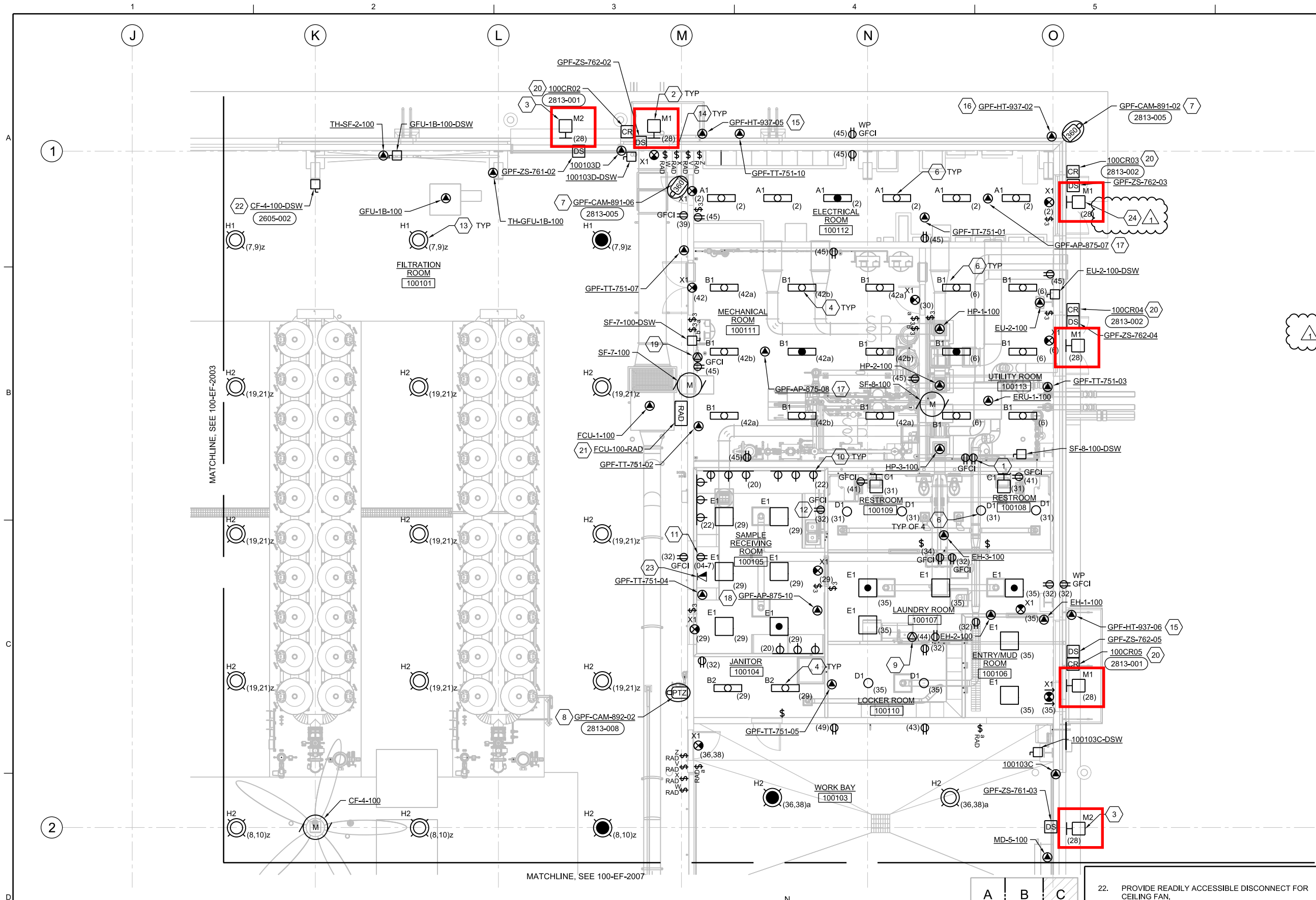
DSGN	T PALIN						VERIFY SCALE
DR	C MCCOY						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN						0 = 1"
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs



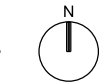
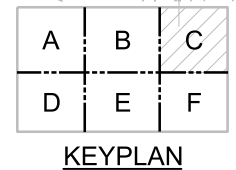
CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
ELECTRICAL
FACILITY FLOOR PLAN - AREA B

SHEET	
DWG	100-EF-2003
DATE	MARCH 2023
PROJ	W7Y47300



FACILITY FLOOR PLAN - AREA C

3/16"=1'-0"



- 22. PROVIDE READILY ACCESSIBLE DISCONNECT FOR CEILING FAN.
- 23. PROVIDE DATA PORT FOR GPF-HMI-801-01 WORK STATION. INSTALL DATA PORT IN KNEE SPACE NEXT TO RECEPTACLE.
- 24. MOUNT LUMINAIRE AT 11'-0" AFF.

GENERAL NOTES

1. MOUNT TYPE H1 LUMINAIRES AT 15'-0" AFF.
2. MOUNT TYPE H2 LUMINAIRES AT 19'-0" AFF.
3. EXIT AND EMERGENCY LUMINAIRES SHALL BE POWERED FROM THE SAME CIRCUIT AS NON-EMERGENCY LUMINAIRES IN THE SAME SPACE.
4. POWER WIRELESS RADIO CONTROL LIGHT SWITCHES FROM THE SAME CIRCUIT POWER AS LIGHT FIXTURES THAT THEY CONTROL.
5. H1 AND H2 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.
6. WITH THE EXCEPTION OF LIGHTING, CIRCULATION FANS OR OTHER APPROVED DEVICES, ALL CONDUITS SHALL BE ROUTED BELOW GRADEUNDER FLOOR SLAB TO EQUIPMENT OR DEVICES. CAREFULLY PLAN CONDUIT ROUTING PER SPECIFICATIONS.

SHEET KEYNOTES

1. DEDICATED TWO RECEPTACLES FOR GAS WATER HEATER. TO BE SUPPLIED FROM GPF-PNL-905-01.
2. MOUNT LUMINAIRES AT 7'-10" AFF. UON.
3. MOUNT LUMINAIRES AT 15'-0" AFF.
4. MOUNT LUMINAIRES AT 10'-0" AFF.
5. MOUNT LUMINAIRES AT 9'-0" AFF.
6. MOUNT LUMINAIRES AT 8'-0" AFF.
7. 360-DEGREE CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
8. PTZ CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
9. PROVIDE NEMA 14-30R RECEPTACLE FOR DRYER. PROVIDE [3/4"C, 2#10N, 1#10G] CIRCUIT FROM PANEL GPF-PNL-905-05.
10. PROVIDE 5 FOOT LONG SECTION OF MULTIOUTLET RACEWAY SYSTEM. MOUNT SYSTEM 2 INCHES ABOVE THE BACKSPLASH. CONNECT TO PANEL CIRCUIT AS SHOWN.
11. PROVIDE RECEPTACLE UNDER COUNTER TOP IN KNEE SPACE 12" AFF. POWER RECEPTACLE FROM UPS PANELBOARD GPF-PNL-905-04.
12. MOUNT BOTTOM OF RECEPTACLE 2 INCHES ABOVE BACKSPLASH.
13. LIGHTING AND RECEPTACLE PANEL CIRCUIT NUMBER ARE FED FROM PANEL GPF-PNL-905-11 ON THIS DRAWING.
14. PROVIDE WIRELESS, LINE-POWERED WALL MOUNTED LIGHT SWITCHES. SWITCHES SHALL MANUALLY CONTROL INDICATED LUMINAIRES WITH ON/OFF AND DIMMING CONTROLS VIA RADIO SIGNALS. MANUAL CONTROLS SHALL COORDINATE WITH INTEGRAL DAYLIGHT RESPONSIVE CONTROLS IN EACH LUMINAIRE.
15. RAIN GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX ABOVE CANOPY AS NEAR AS POSSIBLE TO GUTTER.
16. GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX UNDER EAVES AS NEAR AS POSSIBLE TO GUTTER.
17. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 8' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
18. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT CEILING. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
19. PROVIDE 40A, 240 V RECEPTACLE THAT MATCHES OWNER'S COMPRESSOR PLUG. THIS COMPRESSOR IS BEING RELOCATED HERE FROM EXISTING WORKSHOP.
20. KEY OVERRIDE ON MAGLOCKS WHEN FIRE ALARM IS TRIGGERED.
21. PROVIDE WIRELESS POWER RELAY PACK TO CONTROL FCU-1-100. RELAY PACK SHALL BE COMPATIBLE WITH WIRELESS LIGHTING CONTROL SYSTEM AND POWERED FROM THE SAME CIRCUITS AS LUMINAIRES. MOUNT UNIT AT 16'-0" AFF. COORDINATE WITH MECHANICAL CONTRACTOR.

DSGN	T PALIN					VERIFY SCALE	
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.	
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1		IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	
APVD	S MENK	NO.	DATE	REVISION	TP	SM	BY
					APVD		

Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
ELECTRICAL
FACILITY FLOOR PLAN - AREA C

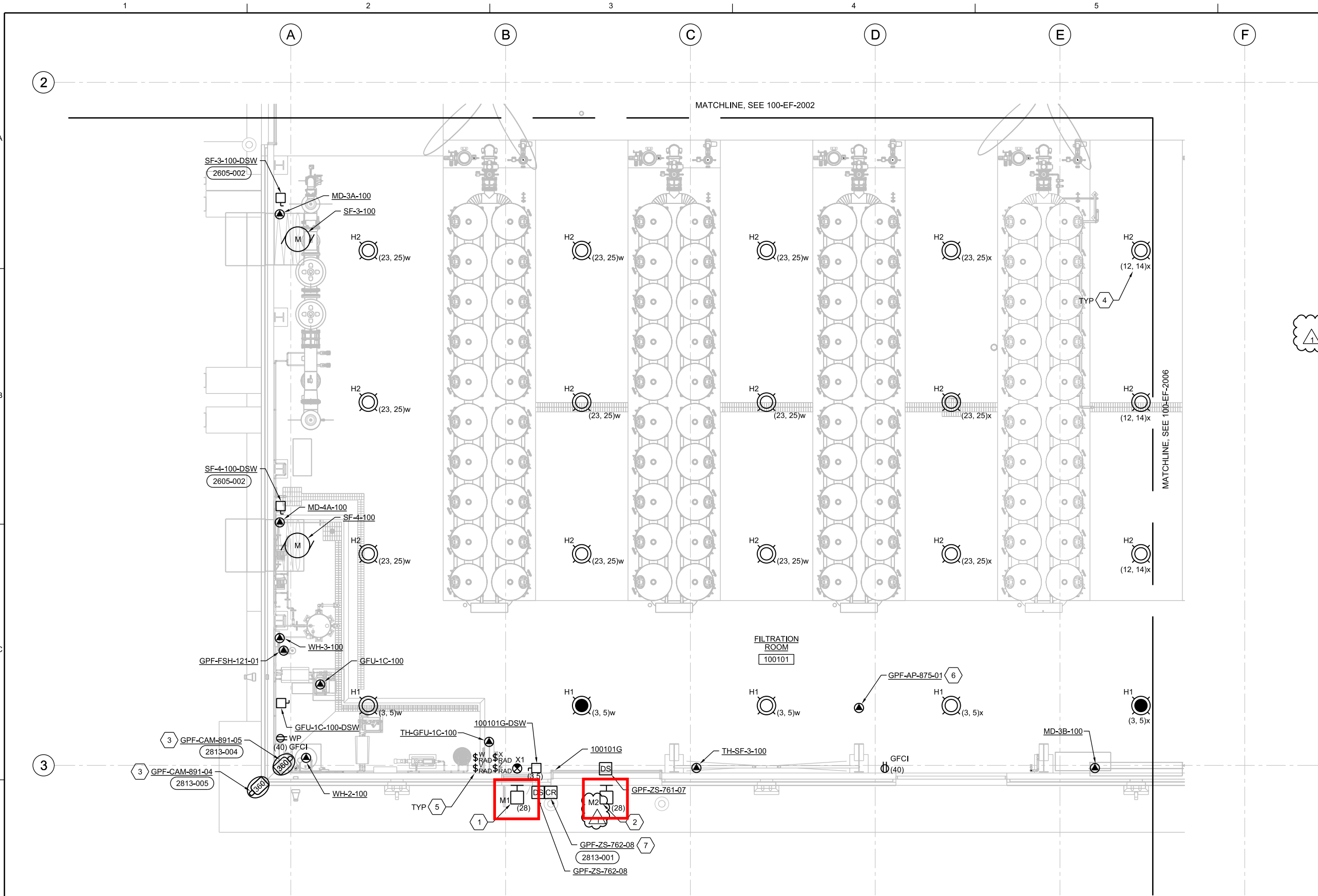
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DWG	100-EF-2004
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 100-EF-2004_W7Y47300.dgn

PLOT DATE:

PLOT TIME:

100% DESIGN



FACILITY FLOOR PLAN - AREA D
3/16"=1'-0"

GENERAL NOTES

1. MOUNT TYPE H1 LUMINAIRES AT 15'-0" AFF.
2. MOUNT TYPE H2 LUMINAIRES AT 19'-0" AFF.
3. EXIT AND EMERGENCY LUMINAIRES SHALL BE POWERED FROM THE SAME CIRCUIT AS NON-EMERGENCY LUMINAIRES IN THE SAME SPACE.
4. POWER WIRELESS RADIO CONTROL LIGHT SWITCHES FROM THE SAME CIRCUIT POWER AS LIGHT FIXTURES THAT THEY CONTROL.
5. H1 AND H2 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.
6. WITH THE EXCEPTION OF LIGHTING, CIRCULATION FANS, OR OTHER APPROVED DEVICES ALL CONDUITS SHALL BE ROUTED BELOW GRADE UNDER FLOOR SLAB TO EQUIPMENT OR DEVICES. CAREFULLY PLAN CONDUIT ROUTING PER SPECIFICATIONS.

SHEET KEYNOTES

1. MOUNT LUMINAIRES AT 7'-10" AFF.
2. MOUNT LUMINAIRES AT 15'-0" AFF.
3. 360-DEGREE CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
4. LIGHTING AND RECEPTACLE PANEL CIRCUIT NUMBER ARE FED FROM PANEL GPF-PNL-905-11 ON THIS DRAWING.
5. PROVIDE WIRELESS, LINE POWERED WALL MOUNTED LIGHT SWITCHES. SWITCHES SHALL MANUALLY CONTROL INDICATED LUMINAIRES WITH ON/OFF AND DIMMING CONTROLS VIA RADIO SIGNALS. MANUAL CONTROLS SHALL COORDINATE WITH INTEGRAL DAYLIGHT RESPONSIVE CONTROLS IN EACH LUMINAIRE.
6. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 15' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
7. KEY OVERRIDE ON MAGLOCKS WHEN FIRE ALARM IS TRIGGERED.

A	B	C
D	E	F

KEYPLAN

DSGN	T PALIN					VERIFY SCALE
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
ELECTRICAL
FACILITY FLOOR PLAN - AREA D

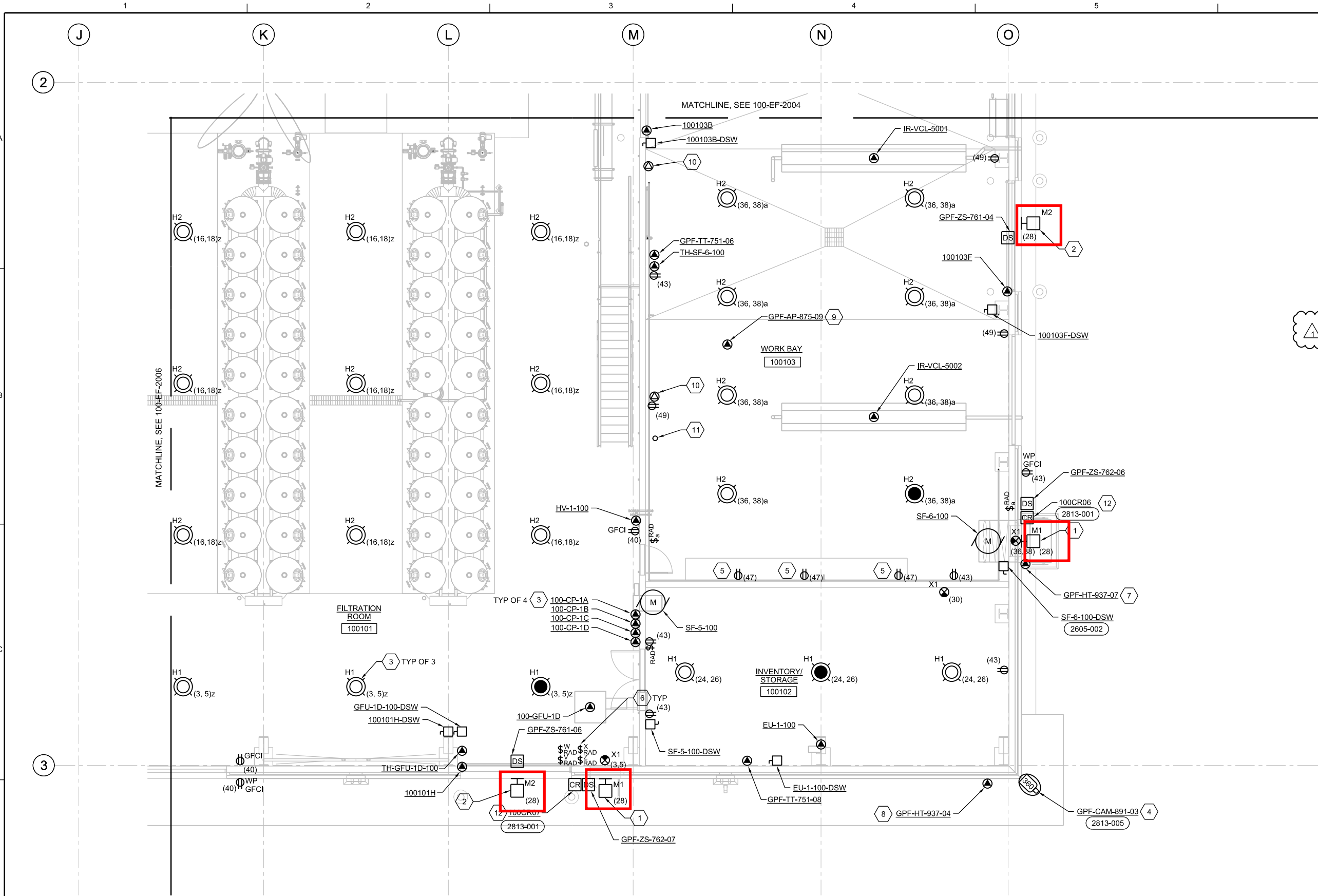
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DATE	MARCH 2023
PROJ	W7Y47300

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PLOT DATE:

PLOT TIME:

100% DESIGN



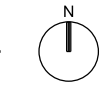
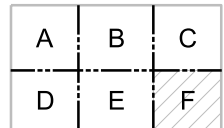
GENERAL NOTES

1. MOUNT TYPE H1 LUMINAIRES AT 15'-0" AFF.
2. MOUNT TYPE H2 LUMINAIRES AT 19'-0" AFF.
3. EXIT AND EMERGENCY LUMINAIRES SHALL BE POWERED FROM THE SAME CIRCUIT AS NON-EMERGENCY LUMINAIRES IN THE SAME SPACE.
4. POWER WIRELESS RADIO CONTROL LIGHT SWITCHES FROM THE SAME CIRCUIT POWER AS LIGHT FIXTURE THAT THEY CONTROL.
5. H1 AND H2 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.
6. WITH THE EXCEPTION OF LIGHTING, CIRCULATION FANS, OR OTHER APPROVED DEVICES ALL CONDUITS SHALL BE ROUTED BELOW GRADE UNDER FLOOR SLAB TO EQUIPMENT OR DEVICES. CAREFULLY PLAN CONDUIT ROUTING PER SPECIFICATIONS.

SHEET KEYNOTES

1. MOUNT LUMINAIRES AT 7'-10" AFF.
2. MOUNT LUMINAIRES AT 15'-0" AFF.
3. PROVIDE CONDUITS BETWEEN CEILING FANS AND REMOTE CONTROL PANELS.
4. 360-DEGREE CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.
5. MOUNT RECEPTACLE 48" AFF SO THAT IS ABOVE THE WORKBENCH HEIGHT.
6. PROVIDE WIRELESS, LINE-POWERED WALL MOUNTED LIGHT SWITCHES. SWITCHES SHALL MANUALLY CONTROL INDICATED LUMINAIRES WITH ON/OFF AND DIMMING CONTROLS VIA RADIO SIGNALS. MANUAL CONTROLS SHALL COORDINATE WITH INTEGRAL DAYLIGHT RESPONSIVE CONTROLS IN EACH LUMINAIRE.
7. RAIN GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX ABOVE CANOPY AS NEAR AS POSSIBLE TO GUTTER.
8. GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX UNDER EAVES AS NEAR AS POSSIBLE TO GUTTER.
9. INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 19' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINUM, 2 GANG JUNCTION BOX.
10. PROVIDE 50A, 240V, 1PHASE RECEPTACLE FOR WELDING EQUIPMENT. COORDINATE RECEPTACLE TYPE WITH OWNER'S WELDING EQUIPMENT PLUG. FOR BIDDING PURPOSES ASSUME RECEPTACLE IS NEMA 10-50R.
11. PROVIDE SPARE CONDUIT FROM SHOP TO GPF-PNL-905-02. CAP CONDUIT 6" ABOVE FINISHED FLOOR.
12. KEY OVERRIDE ON MAGLOCKS WHEN FIRE ALARM IS TRIGGERED.

FACILITY FLOOR PLAN - AREA F
3/16"=1'-0" 3/16"=1'-0"



KEYPLAN

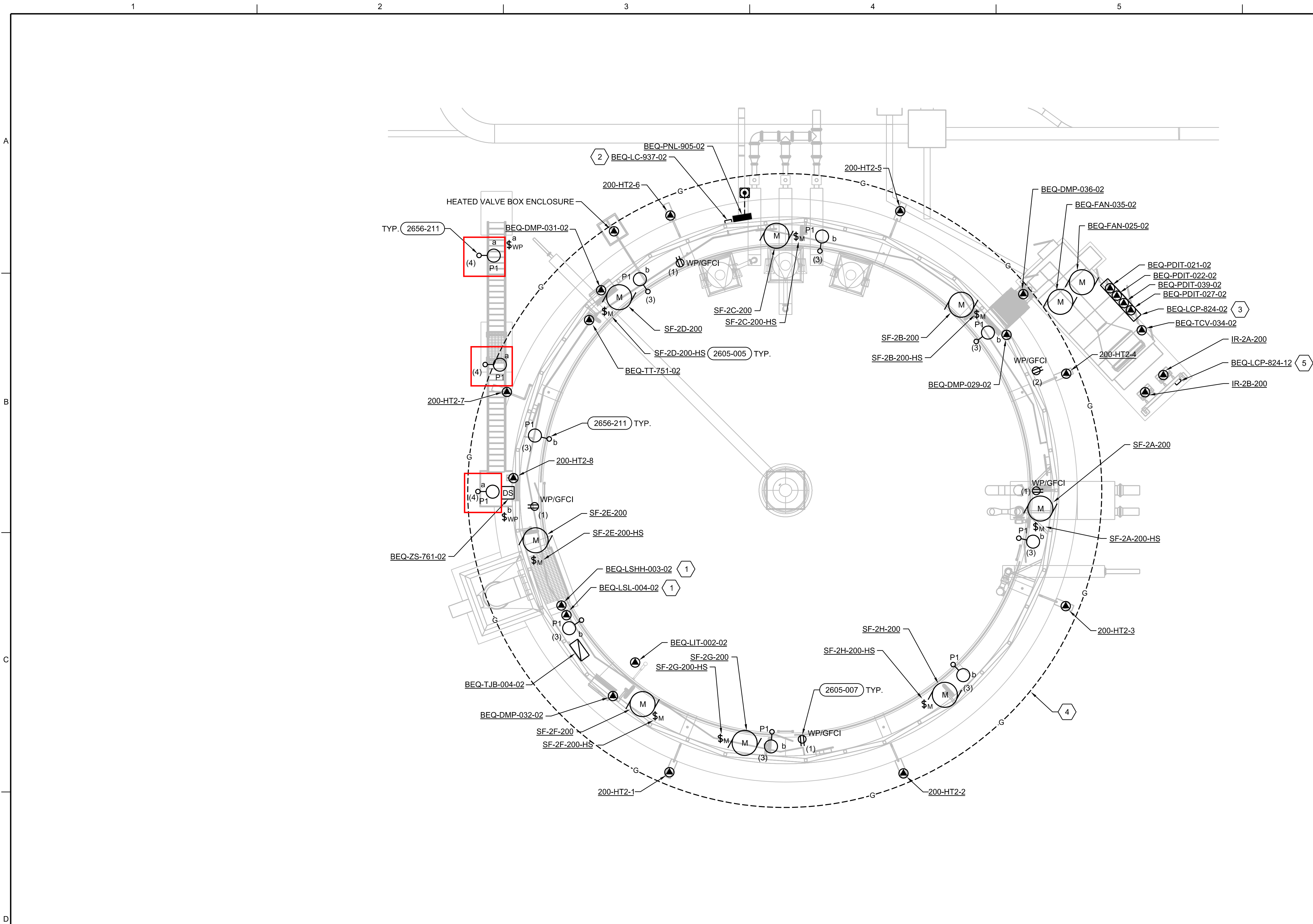
DSGN	T PALIN					VERIFY SCALE
DR	C MCCOY					BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1	TP	SM
APVD	S MENK	NO.	DATE	REVISION	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
GROUNDWATER POLISHING FACILITY
ELECTRICAL
FACILITY FLOOR PLAN - AREA F

SHEET	
DWG	100-EF-2007
DATE	MARCH 2023
PROJ	W7Y47300



GENERAL NOTES

- MOST INSTRUMENT MOUNTING DETAILS ARE NOT CALLED OUT ON ELECTRICAL DRAWINGS. PROVIDE INSTRUMENT MOUNTING PER DETAILS AS CALLED OUT IN INSTRUMENT LIST IN SPECIFICATION SECTION 40 90 01.
- RECEPTACLES AND LIGHTING SHALL BE FED FROM PANEL: BEQ-PNL-905-02.

SHEET KEYNOTES

- MOUNT LEVEL SWITCHES UNDER WALKWAY. SEE INSTRUMENT LIST FOR STANDARD DETAIL.
- PROVIDE 10 POLE, 30A RATED CONTACTOR FOR FACILITY HEAT TRACE SYSTEM. PROVIDE ON/OFF/AUTO SELECTOR SWITCH. WHEN SELECTOR SWITCH IS ON AUTO POSITION CONTACTOR SHALL BE CONTROLLED BY SCADA SYSTEM.
- PANEL PROVIDED BY HVAC CONTRACTOR.
- PROVIDE #2 BARE COPPER GROUND RING. BOND GROUND RING TO LIGHTNING PROTECTION SYSTEM DOWN CONDUCTORS AND LOCAL PANELBOARD.
- PROVIDE INFRARED HEATER CONTROL PANEL. MOUNT TO HEATER SUPPORT STRUCTURE.

OVERALL BASIN 2 PLAN
1/8"=1'-0"

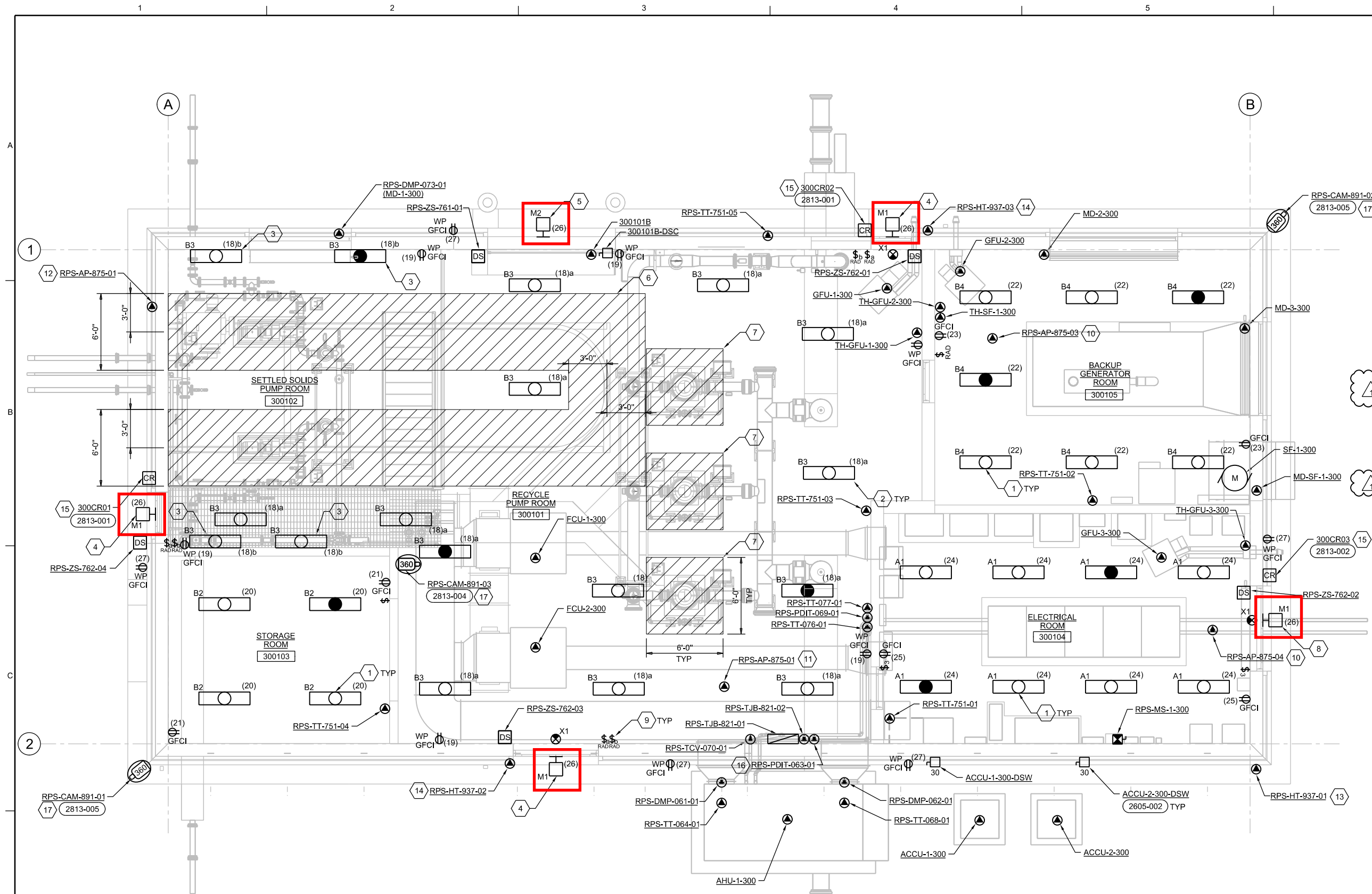
DSGN	T PALIN						VERIFY SCALE
DR	C MCCOY						BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN						0 1" 1"
APVD	S MENK	NO.	DATE	REVISION	BY	APVD	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

Jacobs



CWP GROUNDWATER POLISHING PLANT
BACKWASH WASTE EQUALIZATION BASINS
ELECTRICAL
BASIN 2 PLAN

SHEET	
DWG	200-E-2002
DATE	MARCH 2023
PROJ	W7Y47300



FACILITY FLOOR PLAN
1/4"=1'-0"

GENERAL NOTES

- SEE LUMINAIRE SCHEDULE DRAWING FOR LIGHTING FIXTURE DETAILS.
- PROVIDE BOTH A SWITCHED CIRCUIT AND UNSWITCHED CIRCUIT FOR ALL LUMINAIRES THAT HAVE EMERGENCY BATTERY PACKS.
- RECEPTACLES AND LIGHTS SHOWN ON THIS DRAWING SHALL BE FED FROM PANELBOARD RPS-PNL-905-01, CIRCUITS AS INDICATED, CONTRACTOR SHALL PROVIDE 3/4"C, #12 CONDUCTORS WITH #12 GROUND WIRE FOR CIRCUIT LENGTHS LESS THAN 75 FEET. CONTRACTOR SHALL PROVIDE 3/4"C, #10 CONDUCTORS WITH #10 GROUND WIRE FOR CIRCUIT LENGTHS GREATER THAN 75 FEET. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT.
- B3 AND B4 FIXTURES SHALL HAVE INTEGRAL SENSOR AND CONTROLS TO ADJUST LUMINAIRE BRIGHTNESS BASED ON AMBIENT LIGHT. LUMINAIRES SHALL HAVE MANUAL CONTROL VIA WIRELESS WALL SWITCHES.

SHEET KEYNOTES

- MOUNT LUMINAIRES AT 10'-0" AFF.
- MOUNT LUMINAIRES IN THE RECYCLE PUMP ROOM AT 12'-0" AFF.
- WALL MOUNT LUMINAIRES IN THE SETTLED SOLIDS PUMP ROOM AT 7'-6" AFF.
- MOUNT LUMINAIRES AT 8'-8" AFF.
- MOUNT LUMINAIRES AT 11'-4" AFF.
- NO LIGHTING, CONDUIT OR SUPPORTS SHALL BE INSTALLED WITHIN THE HATCHED AREA BELOW AN ELEVATION OF 4538.50'.
- DO NOT INSTALL ANY ELECTRICAL WORK WITHIN THE HATCHED AREA THAT WILL INHIBIT THE REMOVAL OF PUMP THROUGH OPENING IN ROOF.
- MOUNT LUMINAIRES AT 10'-0" AFF.
- PROVIDE WIRELESS, LINE-POWERED WALL MOUNTED LIGHT SWITCHES. SWITCHES SHALL MANUALLY CONTROL INDICATED LUMINAIRES WITH ON/OFF AND DIMMING CONTROLS VIA RADIO SIGNALS. MANUAL CONTROLS SHALL COORDINATE WITH INTEGRAL DAYLIGHT RESPONSIVE CONTROLS IN EACH LUMINAIRE.
- INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 10' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINIUM, 2 GANG JUNCTION BOX.
- INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT 13' ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINIUM, 2 GANG JUNCTION BOX.
- INSTALL OWNER SUPPLIED WIRELESS ACCESS POINT AT WALL AT 7'-6" ABOVE FINISHED FLOOR. INSTALL USING BELL 5389-0, ALUMINIUM, 2 GANG JUNCTION BOX.
- GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX UNDER EAVES AS NEAR AS POSSIBLE TO GUTTER.
- RAIN GUTTER DE-ICING HEATING TAPE CONNECTION BOX. INSTALL BOX ABOVE CANOPY AS NEAR AS POSSIBLE TO GUTTER.
- KEY OVERRIDE ON MAGLOCKS WHEN FIRE ALARM IS TRIGGERED.
- MOUNT TOP OF INSTRUMENT AT 5'-0" ABOVE FINISHED FLOOR.
- 360-DEGREE CAMERA. SECURITY CAMERAS SHALL BE PROVIDED IN CONSULTATION WITH THE OWNER. SEE ALLOWANCE IN SECTION 00 41 13.

DSGN	T PALIN							VERIFY SCALE
DR	C MCCOY							BAR IS ONE INCH ON ORIGINAL DRAWING.
CHK	J LANDMAN	1	04/21/23	ADDENDUM NO. 1				IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
APVD	S MENK	NO.	DATE	REVISION	TP	SM	BY	APVD

Jacobs



CWP GROUNDWATER POLISHING PLANT
RESIDUALS PUMP STATION
ELECTRICAL
FACILITY FLOOR PLAN

SHEET	
DWG	300-EF-2001
DATE	MARCH 2023
PROJ	W7Y47300

FILENAME: 300-EF-2001_W7Y47300.dgn

PLOT DATE:

PLOT TIME:

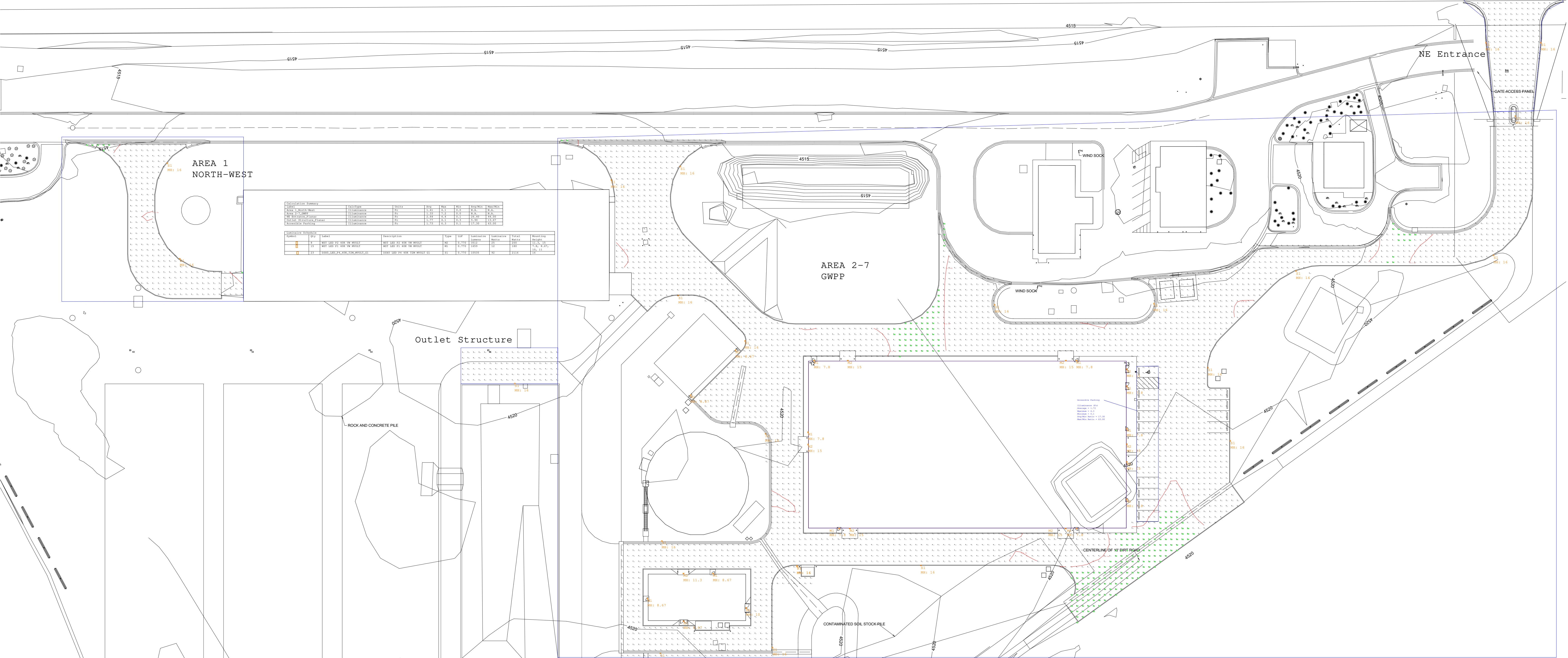
100% DESIGN

PHOTOMETRIC PLAN

PART 3: LUMINAIRE SCHEDULE

PHOTOMETRIC PLAN

PART 4:
SITE PLAN INDICATING PHOTOMETRIC
CALCULATIONS IN A GRID



PHOTOMETRIC PLAN

PART 5:
CUTSHEETS OF ALL THE EXTERIOR LIGHTING
FIXTURES



WST LED

Architectural Wall Sconce



Catalog
Number

Notes

GWPP PROJECT

Type

M1, M2

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

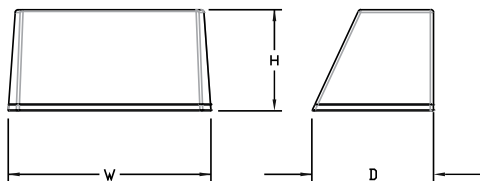
Luminaire

Height: 8-1/2"
(21.59 cm)

Width: 17"
(43.18 cm)

Depth: 10-3/16"
(25.9 cm)

Weight: 20 lbs
(9.1 kg)



A+ Capable options indicated
by this color background.

Introduction

The WST LED is designed with the specifier in mind. The traditional, trapezoidal shape offers a soft, non-pixelated light source for end-user visual comfort. For emergency egress lighting, the WST LED offers six battery options, including remote. For additional code compliance and energy savings, there is also a Bi-level motion sensor option. With so many standard and optional features, three lumen packages, and high LPW, the WST LED is your "go to" luminaire for most any application.

Ordering Information

EXAMPLE: WST LED P1 40K VF MVOLT DDBTXD

WST LED					
Series	Performance Package	Color temperature	Distribution	Voltage	Mounting
WST LED	P1 1,500 Lumen package	27K 2700 K	VF Visual comfort forward throw	MVOLT ¹ 277 ²	Shipped included (blank) Surface mounting bracket PBBW Premium surface-mounted back box ^{3,4} Shipped separately BBW Surface-mounted back box ³
	P2 3,000 Lumen package	30K 3000 K	VW Visual comfort wide	120 ² 347 ²	
	P3 6,000 Lumen package	40K 4000 K		208 ² 480 ²	
		50K 5000 K		240 ²	

Options	Finish (required)
NLTAIR2 PIR nLIGHT AIR Wireless enabled motion/ambient sensor for 8'-15' mounting heights ^{5,6,7}	DDBXD Dark bronze
NLTAIR2 PIRH nLIGHT AIR Wireless enabled motion/ambient sensor for 15'-30' mounting heights ^{5,6,7}	DBLXD Black
PE Photoelectric cell, button type ⁸	DNAXD Natural aluminum
PER NEMA twist-lock receptacle only (controls ordered separate) ⁹	DWHXD White
PER5 Five-wire receptacle only (controls ordered separate) ⁹	DSSXD Sandstone
PER7 Seven-wire receptacle only (controls ordered separate) ⁹	DDBTXD Textured dark bronze
PIR Motion/Ambient Light Sensor, 8-15' mounting height ^{5,6}	DBLBXD Textured black
PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ^{5,6}	DNATXD Textured natural aluminum
PIRH 180° motion/ambient light sensor, 15-30' mounting height ^{5,6}	DWHGXD Textured white
PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ^{5,6}	DSSTXD Textured sandstone
SF Single fuse (120, 277, 347V) ²	
DF Double fuse (208, 240, 480V) ²	
DS Dual switching ¹⁰	
DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ¹¹	
E7WH Emergency battery backup, Non CEC compliant (7W) ⁷	
E7WC Emergency battery backup, CA Title 20 Noncompliant (cold, 7W) ^{7,12}	
E7WHR Remote emergency battery backup, CA Title 20 Noncompliant (remote 7W) ^{7,13}	
E20WH Emergency battery pack 18W constant power, Certified in CA Title 20 MAEDBS ⁷	
E20WC Emergency battery pack -20°C 18W constant power, Certified in CA Title 20 MAEDBS ^{7,12}	
E23WHR Remote emergency battery backup, CA Title 20 Noncompliant (remote 20W) ^{7,12,14}	
LCE Left side conduit entry ¹⁵	
RCE Right side conduit entry ¹⁵	
BAA Buy America(n) Act Compliant	
Shipped separately	
RBPW Retrofit back plate ³	
VG Vandal guard ¹⁵	
WG Wire guard ¹⁵	

See Accessories and Notes on next page.



COMMERCIAL OUTDOOR

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WST-LED
Rev. 01/19/23

Accessories

Ordered and shipped separately.

WSTVCPBBW DDBXD U	Premium Surface - mounted back box
WS8BW DDBTXD U	Surface - mounted back box
RBPW DDBXD U	Retrofit back plate
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁷
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁷
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁷

NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 2 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 3 Also available as a separate accessory; see accessories information.
- 4 Top conduit entry standard.
- 5 Not available with VG or WG. See PER Table.
- 6 Reference Motion Sensor table.
- 7 Not available 347/480. E7WC or E23WHR, only available 120 or 277.
- 8 Need to specify 120, 208, 240 or 277 voltage.

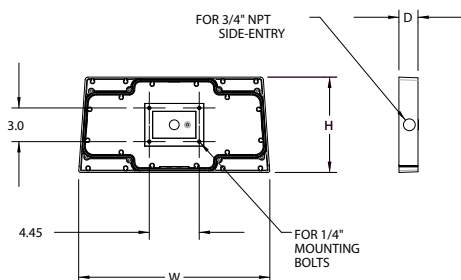
- 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- 10 Not available with Emergency options, PE or PER options.
- 11 DMG option not available with standalone or networked sensors/controls.
- 12 Battery pack rated for -20° to 40°C.
- 13 Comes with PBBW.
- 14 Warranty period is 3-years.
- 15 Not available with BBW.
- 16 Must order with fixture; not an accessory.
- 17 Requires luminaire to be specified with PER, PER5 or PER7 option. See PER Table.

Optional Back Box (PBBW)

Height: 8.49"
(21.56 cm)

Width: 17.01"
(43.21 cm)

Depth: 1.70"
(4.32 cm)

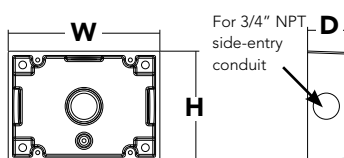


Optional Back Box (BBW)

Height: 4"
(10.2 cm)

Width: 5-1/2"
(14.0 cm)

Depth: 1-1/2"
(3.8 cm)



Emergency Battery Operation

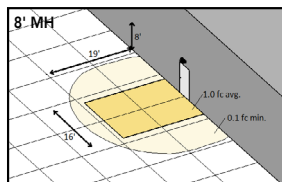
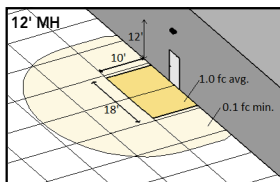
The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All emergency backup configurations include an independent secondary driver with an integral relay to immediately detect AC power loss, meeting interpretations of [NFPA 70/NEC 2008 - 700.16](#)

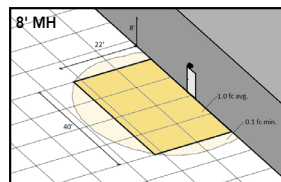
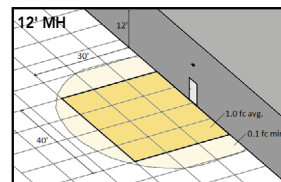
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per [International Building Code Section 1006](#) and [NFPA 101 Life Safety Code Section 7.9](#), provided luminaires are mounted at an appropriate height and illuminate an open space with no major obstructions.

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the P1 power package and VF distribution product in emergency mode.

10' x 10' Gridlines
8' and 12' Mounting Height



WST LED P1 27K VF MVOLT E7WH



WST LED P2 40K VF MVOLT E20WH

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.98

Projected LED Lumen Maintenance

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.92	>0.87

Electrical Load

Performance package	System Watts	Current (A)					
		120	208	240	277	347	480
P1	11	0.1	0.06	0.05	0.04	---	---
	14	---	---	---	---	0.04	0.03
P1 DS	14	0.12	0.07	0.06	0.06	---	---
P2	25	0.21	0.13	0.11	0.1	---	---
	30	---	---	---	---	0.09	0.06
P2 DS	25	0.21	0.13	0.11	0.1	---	---
P3	50	0.42	0.24	0.21	0.19	---	---
	56	---	---	---	---	0.16	0.12
P3 DS	52	0.43	0.26	0.23	0.21	---	---

Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Ramp-up Time	Dwell Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	3 sec	5 min	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	3 sec	5 min	5 min

*for use with site wide Dusk to Dawn control

PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
			Wire 4/Wire5		Wire 4/Wire5	Wire 6/Wire7
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion	✗	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof*	✗	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof* with Motion	✗	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture

✓ Recommended

✗ Will not work

⚠ Alternate

*Futureproof means: Ability to change controls in the future.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Performance Package	System Watts (MVOLT ¹)	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	12W	VF	1,494	0	0	0	125	1,529	0	0	0	127	1,639	0	0	0	137	1,639	0	0	0	137
		VW	1,513	0	0	0	126	1,548	0	0	0	129	1,659	0	0	0	138	1,660	0	0	0	138
P2	25W	VF	3,163	1	0	1	127	3,237	1	0	1	129	3,469	1	0	1	139	3,468	1	0	1	139
		VW	3,201	1	0	0	128	3,276	1	0	0	131	3,512	1	0	0	140	3,512	1	0	0	140
P3	50W	VF	6,025	1	0	1	121	6,165	1	0	1	123	6,609	1	0	1	132	6,607	1	0	1	132
		VW	6,098	1	0	1	122	6,240	1	0	1	125	6,689	1	0	1	134	6,691	1	0	1	134

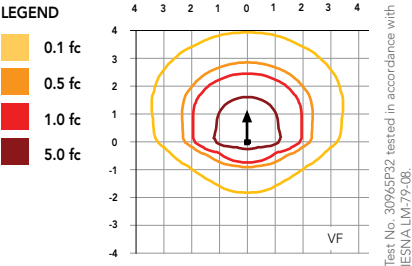
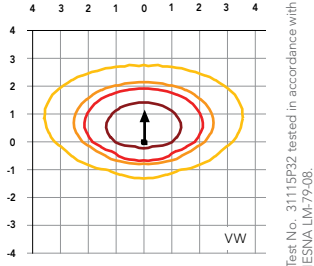


COMMERCIAL OUTDOOR

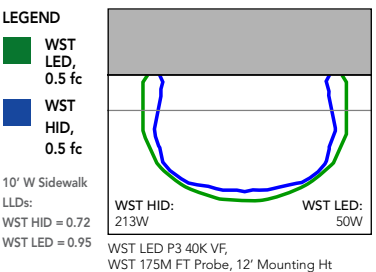
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WST-LED
Rev. 01/19/23

Isofootcandle plots for the WST LED P3 40K VF and VW. Distances are in units of mounting height (10').



Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free.

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 98 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 40°C, L87). Class 2 electronic driver has a power factor >90%, THD <20%. Easily-serviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. PIR and back box options are rated for wet location. Rated for -30°C to 40°C ambient.

BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



D-Series Size 0

Legacy LED Area Luminaire



Catalog Number

Notes

GWPP PROJECT

Type

S1

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 400W metal halide with typical energy savings of 70% and expected service life of over 100,000 hours.

Specifications

EPA: 0.95 ft²
(.09 m²)

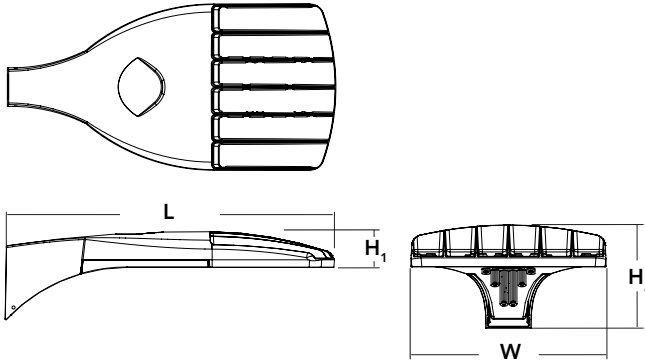
Length: 26"
(66.0 cm)

Width: 13"
(33.0 cm)

Height₁: 3"
(7.62 cm)

Height₂: 7"
(17.8 cm)

Weight (max): 16 lbs
(7.25 kg)



Ordering Information

EXAMPLE: DSX0 LED P6 40K T3M MVOLT SPA NLTAIR2 PIRHN DDBXD G1

DSX0 LED					
Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX0 LED	Forward optics	30K 3000 K	T1S Type I short (Automotive)	MVOLT (120V-277V) ^{5,6}	Shipped included
	P1 P5	40K 4000 K	T2S Type II short	XVOLT (277V-480V) ^{7,8,9}	SPA Square pole mounting
	P2 P6	50K 5000 K	T2M Type II medium	120 ⁶	RPA Round pole mounting¹⁰
	P3 P7 ¹		T3S Type III short	208 ⁶	WBA Wall bracket ³
	P4¹		T3M Type III medium	240 ⁶	SPUMBA Square pole universal mounting adaptor ¹¹
	Rotated optics		T4M Type IV medium	277 ⁶	RPUMBA Round pole universal mounting adaptor ¹¹
	P10 ² P12 ²		TFTM Forward throw medium	347 ⁶	Shipped separately
	P11 ² P13 ^{1,2}		T5VS Type V very short ³	480⁶	KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ¹²

Control options	Other options	Finish (required)	Generation (required)
Shipped installed	Shipped installed	DDBXD Dark bronze	G1 Generation 1
NLTAIR2 nLight AIR generation 2 enabled ^{13,14}	HS House-side shield ²²	DBLXD Black	
PIRHN Network, high/low motion/ambient sensor ¹⁵	SF Single fuse (120, 277, 347V) ⁶	DNAXD Natural aluminum	
PER NEMA twist-lock receptacle only (control ordered separate) ¹⁶	DF Double fuse (208, 240, 480V)⁶	DWHXD White	
PER5 Five-pin receptacle only (control ordered separate) ^{16,17}	L90 Left rotated optics ²	DDBTXD Textured dark bronze	
PER7 Seven-pin receptacle only (leads exit fixture) (control ordered separate) ^{16,17}	R90 Right rotated optics ²	DBLBXD Textured black	
DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ¹⁸	DDL Diffused drop lens ²²	DNATXD Textured natural aluminum	
	HA 50°C ambient operations ¹	DWHGXD Textured white	
	BAA Buy America(n) Act Compliant		
	Shipped separately		
	BS Bird spikes ²³		
	EGS External glare shield		



COMMERCIAL OUTDOOR

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DSX0 LED G1
Rev. 09/06/22
Page 1 of 8

Ordering Information

Accessories

Ordered and shipped separately.

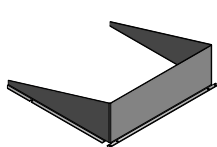
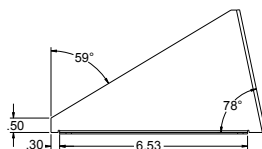
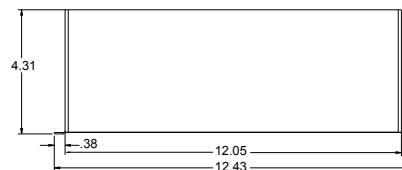
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁴
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ²⁴
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ²⁴
DSHORT SBK U	Shorting cap ²⁴
DSX0HS 20C U G1	House-side shield for P1,P2,P3 and P4 ²²
DSX0HS 30C U G1	House-side shield for P10,P11,P12 and P13 ²²
DSX0HS 40C U G1	House-side shield for P5,P6 and P7 ²²
DSX0DDL U G1	Diffused drop lens (polycarbonate) ²²
PUMBA DDBXD U G1*	Square and round pole universal mounting bracket adaptor (specify finish) ²⁵
KMA8 DDBXD U	Master arm mounting bracket adaptor (specify finish) ¹²
DSX0EGS (FINISH) U G1	External glare shield

For more control options, visit [DTL](#) and [ROAM](#) online.
Link to [nLight Air 2](#)

NOTES

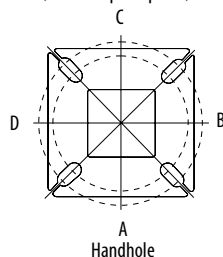
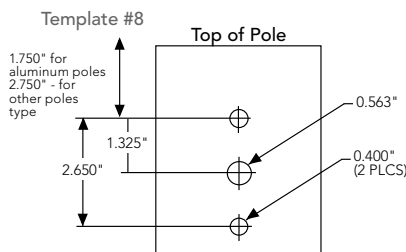
- HA not available with P4, P7, and P13.
- P10, P11, P12 and P13 and rotated options (L90 or R90) only available together.
- Any Type 5 distribution with photocell, is not available with WBA.
- Not available with HS or DDL.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).
- XVOLT only suitable for use with P4, P7 and P13.
- XVOLT operates with any voltage between 277V and 480V.
- XVOLT not available with fusing (SF or DF) and not available with PIR, PIRH, PIR1FC3V, PIRH1FC3V.
- Suitable for mounting to round poles between 3.5" and 12" diameter.
- Universal mounting brackets intended for retrofit on existing pre-drilled poles only. 1.5 G vibration load rating per ANCI C136.31. Only usable when pole's drill pattern is NOT Lithonia template #8.
- Must order fixture with SPA mounting. KMA8 must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" diameter mast arm (not included).
- Must be ordered with PIRHN.
- Sensor cover available only in dark bronze, black, white and natural aluminum colors.
- Must be ordered with NLTAIR2. For more information on nLight Air 2 visit [this link](#).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Shorting Cap included.
- DMG not available with PIRHN, PER5, PER7, PIR, PIRH, PIR1FC3V or PIRH1FC3V, FAO.
- Reference Controls Options table on page 4.
- Reference Motion Sensor Default Table on page 4 to see functionality.
- Not available with other dimming controls options.
- Not available with BLC, LCCO and RCCO distribution.
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- For retrofit use only. Only usable when pole's drill pattern is NOT Lithonia template #8.

EGS – External Glare Shield



Drilling

HANDHOLE ORIENTATION (from top of pole)



Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	2-7/8"	2-7/8"	3.5"	3.5"		3.5"
RPA	#8	2-7/8"	2-7/8"	3.5"	3.5"	3"	3.5"
SPUMBA	#5	2-7/8"	3"	4"	4"		4"
RPUMBA	#5	2-7/8"	3.5"	5"	5"	3.5"	5"

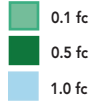
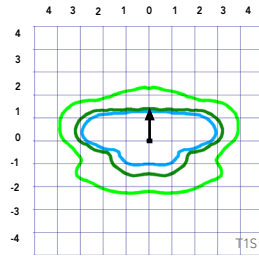
DSX0 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

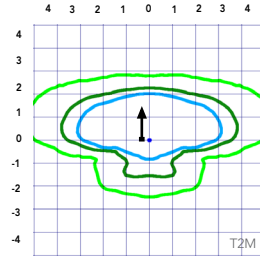
Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 LED	0.950	1.900	1.830	2.850	2.850	3.544

Isofootcandle plots for the DSX0 LED P6 40K G1. Distances are in units of mounting height (20').

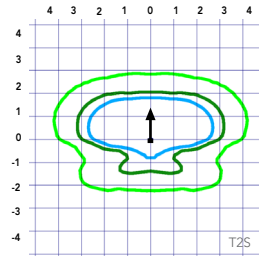
LEGEND



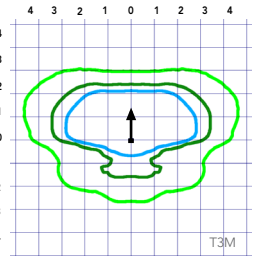
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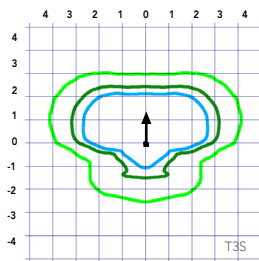
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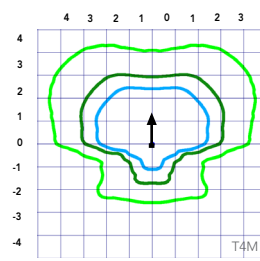
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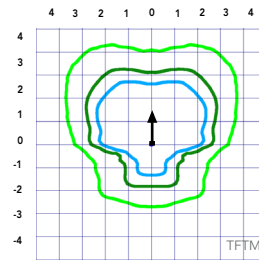
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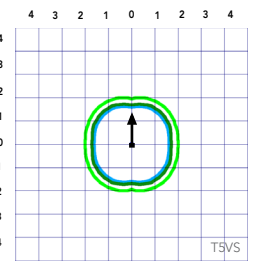
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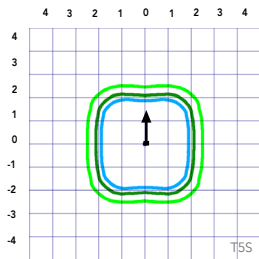
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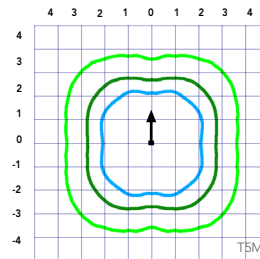
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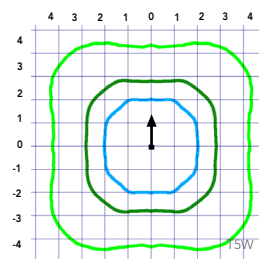
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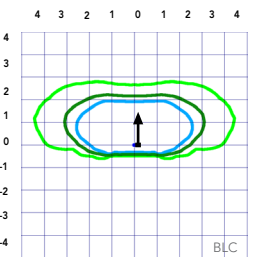
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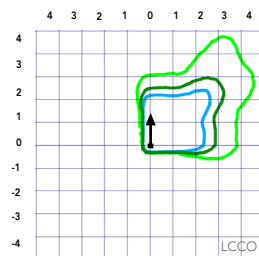
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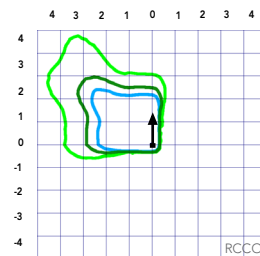
Test No. LTL2345/P25 tested in accordance with IESNA LM-79-08.



Test No.



Test No.



Test No.

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
25,000	0.96
50,000	0.92
100,000	0.85

Motion Sensor Default Settings						
Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

*for use when motion sensor is used as dusk to dawn control.

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire
PIR or PIRH	Motion sensors with integral photocell. PIR for 8-15' mounting; PIRH for 15-30' mounting	Luminaires dim when no occupancy is detected.	Acuity Controls SBGR	Also available with PIRH1FC3V when the sensor photocell is used for dusk-to-dawn operation.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSDGR	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app.

Electrical Load

					Current (A)					
	Performance Package	LED Count	Drive Current	Wattage	120	208	240	277	347	480
Forward Optics (Non-Rotated)	P1	20	530	38	0.32	0.18	0.15	0.15	0.10	0.08
	P2	20	700	49	0.41	0.23	0.20	0.19	0.14	0.11
	P3	20	1050	71	0.60	0.37	0.32	0.27	0.21	0.15
	P4	20	1400	92	0.77	0.45	0.39	0.35	0.28	0.20
	P5	40	700	89	0.74	0.43	0.38	0.34	0.26	0.20
	P6	40	1050	134	1.13	0.65	0.55	0.48	0.39	0.29
	P7	40	1300	166	1.38	0.80	0.69	0.60	0.50	0.37
Rotated Optics (Requires L90 or R90)	P10	30	530	53	0.45	0.26	0.23	0.21	0.16	0.12
	P11	30	700	72	0.60	0.35	0.30	0.27	0.20	0.16
	P12	30	1050	104	0.88	0.50	0.44	0.39	0.31	0.23
	P13	30	1300	128	1.08	0.62	0.54	0.48	0.37	0.27

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	20	530	38W	T1S	4,369	1	0	1	115	4,706	1	0	1	124	4,766	1	0	1	125
				T2S	4,387	1	0	1	115	4,726	1	0	1	124	4,785	1	0	1	126
				T2M	4,364	1	0	1	115	4,701	1	0	1	124	4,761	1	0	1	125
				T3S	4,376	1	0	1	115	4,714	1	0	1	124	4,774	1	0	1	126
				T3M	4,248	1	0	1	112	4,577	1	0	1	120	4,634	1	0	1	122
				T4M	4,281	1	0	1	113	4,612	1	0	2	121	4,670	1	0	2	123
				TFTM	4,373	1	0	1	115	4,711	1	0	2	124	4,771	1	0	2	126
				TSVS	4,548	2	0	0	120	4,900	2	0	0	129	4,962	2	0	0	131
				TSS	4,552	2	0	0	120	4,904	2	0	0	129	4,966	2	0	0	131
				TSM	4,541	3	0	1	120	4,891	3	0	1	129	4,953	3	0	1	130
				TSW	4,576	3	0	2	120	4,929	3	0	2	130	4,992	3	0	2	131
				BLC	3,586	1	0	1	94	3,863	1	0	1	102	3,912	1	0	1	103
				LCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
				RCCO	2,668	1	0	1	70	2,874	1	0	2	76	2,911	1	0	2	77
P2	20	700	49W	T1S	5,570	1	0	1	114	6,001	1	0	1	122	6,077	2	0	2	124
				T2S	5,593	1	0	1	114	6,025	1	0	1	123	6,102	1	0	1	124
				T2M	5,564	1	0	2	114	5,994	1	0	2	122	6,070	2	0	2	125
				T3S	5,580	1	0	2	114	6,011	1	0	2	123	6,087	1	0	2	124
				T3M	5,417	1	0	2	111	5,835	1	0	2	119	5,909	2	0	2	121
				T4M	5,458	1	0	2	111	5,880	1	0	2	120	5,955	1	0	2	122
				TFTM	5,576	1	0	2	114	6,007	1	0	2	123	6,083	1	0	2	124
				TSVS	5,799	2	0	0	118	6,247	2	0	0	127	6,327	2	0	0	129
				TSS	5,804	2	0	0	118	6,252	2	0	0	128	6,332	2	0	1	129
				TSM	5,789	3	0	1	118	6,237	3	0	1	127	6,316	3	0	1	129
				TSW	5,834	3	0	2	119	6,285	3	0	2	128	6,364	3	0	2	130
				BLC	4,572	1	0	1	93	4,925	1	0	1	101	4,987	1	0	1	102
				LCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
				RCCO	3,402	1	0	2	69	3,665	1	0	2	75	3,711	1	0	2	76
P3	20	1050	71W	T1S	7,833	2	0	2	110	8,438	2	0	2	119	8,545	2	0	2	120
				T2S	7,865	2	0	2	111	8,473	2	0	2	119	8,580	2	0	2	121
				T2M	7,825	2	0	2	110	8,429	2	0	2	119	8,536	2	0	2	120
				T3S	7,846	2	0	2	111	8,452	2	0	2	119	8,559	2	0	2	121
				T3M	7,617	2	0	2	107	8,205	2	0	2	116	8,309	2	0	2	117
				T4M	7,675	2	0	2	108	8,269	2	0	2	116	8,373	2	0	2	118
				TFTM	7,841	2	0	2	110	8,447	2	0	2	119	8,554	2	0	2	120
				TSVS	8,155	3	0	0	115	8,785	3	0	0	124	8,896	3	0	0	125
				TSS	8,162	3	0	1	115	8,792	3	0	1	124	8,904	3	0	1	125
				TSM	8,141	3	0	2	115	8,770	3	0	2	124	8,881	3	0	2	125
				TSW	8,204	3	0	2	116	8,838	4	0	2	124	8,950	4	0	2	126
				BLC	6,429	1	0	2	91	6,926	1	0	2	98	7,013	1	0	2	99
				LCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
				RCCO	4,784	1	0	2	67	5,153	1	0	2	73	5,218	1	0	2	73
P4	20	1400	92W	T1S	9,791	2	0	2	106	10,547	2	0	2	115	10,681	2	0	2	116
				T2S	9,831	2	0	2	107	10,590	2	0	2	115	10,724	2	0	2	117
				T2M	9,780	2	0	2	106	10,536	2	0	2	115	10,669	2	0	2	116
				T3S	9,807	2	0	2	107	10,565	2	0	2	115	10,698	2	0	2	116
				T3M	9,521	2	0	2	103	10,256	2	0	2	111	10,386	2	0	2	113
				T4M	9,594	2	0	2	104	10,335	2	0	3	112	10,466	2	0	3	114
				TFTM	9,801	2	0	2	107	10,558	2	0	2	115	10,692	2	0	2	116
				TSVS	10,193	3	0	1	111	10,981	3	0	1	119	11,120	3	0	1	121
				TSS	10,201	3	0	1	111	10,990	3	0	1	119	11,129	3	0	1	121
				TSM	10,176	4	0	2	111	10,962	4	0	2	119	11,101	4	0	2	121
				TSW	10,254	4	0	3	111	11,047	4	0	3	120	11,186	4	0	3	122
				BLC	8,036	1	0	2	87	8,656	1	0	2	94	8,766	1	0	2	95
				LCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71
				RCCO	5,979	1	0	2	65	6,441	1	0	2	70	6,523	1	0	3	71

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	40	700	89W	T1S	10,831	2	0	2	122	11,668	2	0	2	131	11,816	2	0	2	133
				T2S	10,876	2	0	2	122	11,716	2	0	2	132	11,864	2	0	2	133
				T2M	10,820	2	0	2	122	11,656	2	0	2	131	11,803	2	0	2	133
				T3S	10,849	2	0	2	122	11,687	2	0	2	131	11,835	2	0	2	133
				T3M	10,532	2	0	2	118	11,346	2	0	2	127	11,490	2	0	2	129
				T4M	10,613	2	0	3	119	11,434	2	0	3	128	11,578	2	0	3	130
				TFTM	10,842	2	0	2	122	11,680	2	0	2	131	11,828	2	0	2	133
				TSVS	11,276	3	0	1	127	12,148	3	0	1	136	12,302	3	0	1	138
				TSS	11,286	3	0	1	127	12,158	3	0	1	137	12,312	3	0	1	138
				TSM	11,257	4	0	2	126	12,127	4	0	2	136	12,280	4	0	2	138
				TSW	11,344	4	0	3	127	12,221	4	0	3	137	12,375	4	0	3	139
				BLC	8,890	1	0	2	100	9,576	1	0	2	108	9,698	1	0	2	109
				LCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
				RCCO	6,615	1	0	3	74	7,126	1	0	3	80	7,216	1	0	3	81
P6	40	1050	134W	T1S	14,805	3	0	3	110	15,949	3	0	3	119	16,151	3	0	3	121
				T2S	14,865	3	0	3	111	16,014	3	0	3	120	16,217	3	0	3	121
				T2M	14,789	3	0	3	110	15,932	3	0	3	119	16,134	3	0	3	120
				T3S	14,829	2	0	3	111	15,975	3	0	3	119	16,177	3	0	3	121
				T3M	14,396	3	0	3	107	15,509	3	0	3	116	15,705	3	0	3	117
				T4M	14,507	2	0	3	108	15,628	3	0	3	117	15,826	3	0	3	118
				TFTM	14,820	2	0	3	111	15,965	3	0	3	119	16,167	3	0	3	121
				TSVS	15,413	4	0	1	115	16,604	4	0	1	124	16,815	4	0	1	125
				TSS	15,426	3	0	1	115	16,618	4	0	1	124	16,828	4	0	1	126
				TSM	15,387	4	0	2	115	16,576	4	0	2	124	16,786	4	0	2	125
				TSW	15,506	4	0	3	116	16,704	4	0	3	125	16,915	4	0	3	126
				BLC	12,151	1	0	2	91	13,090	1	0	2	98	13,255	1	0	2	99
				LCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
				RCCO	9,041	1	0	3	67	9,740	1	0	3	73	9,863	1	0	3	74
P7	40	1300	166W	T1S	17,023	3	0	3	103	18,338	3	0	3	110	18,570	3	0	3	112
				T2S	17,092	3	0	3	103	18,413	3	0	3	111	18,646	3	0	3	112
				T2M	17,005	3	0	3	102	18,319	3	0	3	110	18,551	3	0	3	112
				T3S	17,051	3	0	3	103	18,369	3	0	3	111	18,601	3	0	3	112
				T3M	16,553	3	0	3	100	17,832	3	0	3	107	18,058	3	0	3	109
				T4M	16,681	3	0	3	100	17,969	3	0	3	108	18,197	3	0	3	110
				TFTM	17,040	3	0	3	103	18,357	3	0	4	111	18,590	3	0	4	112
				TSVS	17,723	4	0	1	107	19,092	4	0	1	115	19,334	4	0	1	116
				TSS	17,737	4	0	2	107	19,108	4	0	2	115	19,349	4	0	2	117
				TSM	17,692	4	0	2	107	19,059	4	0	2	115	19,301	4	0	2	116
				TSW	17,829	5	0	3	107	19,207	5	0	3	116	19,450	5	0	3	117
				BLC	13,971	2	0	2	84	15,051	2	0	2	91	15,241	2	0	2	92
				LCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68
				RCCO	10,396	1	0	3	63	11,199	1	0	3	67	11,341	1	0	3	68

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Rotated Optics																			
Power Package	LED Count	Drive Current	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	30	530	53W	T1S	6,727	2	0	2	127	7,247	3	0	3	137	7,339	3	0	3	138
				T2S	6,809	3	0	3	128	7,336	3	0	3	138	7,428	3	0	3	140
				T2M	6,689	3	0	3	126	7,205	3	0	3	136	7,297	3	0	3	138
				T3S	6,805	3	0	3	128	7,331	3	0	3	138	7,424	3	0	3	140
				T3M	6,585	3	0	3	124	7,094	3	0	3	134	7,183	3	0	3	136
				T4M	6,677	3	0	3	126	7,193	3	0	3	136	7,284	3	0	3	137
				TFTM	6,850	3	0	3	129	7,379	3	0	3	139	7,472	3	0	3	141
				TSVS	6,898	3	0	0	130	7,431	3	0	0	140	7,525	3	0	0	142
				TSS	6,840	2	0	1	129	7,368	2	0	1	139	7,461	2	0	1	141
				TSM	6,838	3	0	1	129	7,366	3	0	2	139	7,460	3	0	2	141
				TSW	6,777	3	0	2	128	7,300	3	0	2	138	7,393	3	0	2	139
				BLC	5,626	2	0	2	106	6,060	2	0	2	114	6,137	2	0	2	116
				LCCO	4,018	1	0	2	76	4,328	1	0	2	82	4,383	1	0	2	83
				RCCO	4,013	3	0	3	76	4,323	3	0	3	82	4,377	3	0	3	83
P11	30	700	72W	T1S	8,594	3	0	3	119	9,258	3	0	3	129	9,376	3	0	3	130
				T2S	8,699	3	0	3	121	9,371	3	0	3	130	9,490	3	0	3	132
				T2M	8,545	3	0	3	119	9,205	3	0	3	128	9,322	3	0	3	129
				T3S	8,694	3	0	3	121	9,366	3	0	3	130	9,484	3	0	3	132
				T3M	8,412	3	0	3	117	9,062	3	0	3	126	9,177	3	0	3	127
				T4M	8,530	3	0	3	118	9,189	3	0	3	128	9,305	3	0	3	129
				TFTM	8,750	3	0	3	122	9,427	3	0	3	131	9,546	3	0	3	133
				TSVS	8,812	3	0	0	122	9,493	3	0	0	132	9,613	3	0	0	134
				TSS	8,738	3	0	1	121	9,413	3	0	1	131	9,532	3	0	1	132
				TSM	8,736	3	0	2	121	9,411	3	0	2	131	9,530	3	0	2	132
				TSW	8,657	4	0	2	120	9,326	4	0	2	130	9,444	4	0	2	131
				BLC	7,187	3	0	3	100	7,742	3	0	3	108	7,840	3	0	3	109
				LCCO	5,133	1	0	2	71	5,529	1	0	2	77	5,599	1	0	2	78
				RCCO	5,126	3	0	3	71	5,522	3	0	3	77	5,592	3	0	3	78
P12	30	1050	104W	T1S	12,149	3	0	3	117	13,088	3	0	3	126	13,253	3	0	3	127
				T2S	12,297	3	0	3	118	13,247	3	0	3	127	13,415	3	0	3	129
				T2M	12,079	4	0	4	116	13,012	4	0	4	125	13,177	4	0	4	127
				T3S	12,290	3	0	3	118	13,239	4	0	4	127	13,407	4	0	4	129
				T3M	11,891	4	0	4	114	12,810	4	0	4	123	12,972	4	0	4	125
				T4M	12,058	4	0	4	116	12,990	4	0	4	125	13,154	4	0	4	126
				TFTM	12,369	4	0	4	119	13,325	4	0	4	128	13,494	4	0	4	130
				TSVS	12,456	3	0	1	120	13,419	3	0	1	129	13,589	4	0	1	131
				TSS	12,351	3	0	1	119	13,306	3	0	1	128	13,474	3	0	1	130
				TSM	12,349	4	0	2	119	13,303	4	0	2	128	13,471	4	0	2	130
				TSW	12,238	4	0	3	118	13,183	4	0	3	127	13,350	4	0	3	128
				BLC	10,159	3	0	3	98	10,944	3	0	3	105	11,083	3	0	3	107
				LCCO	7,256	1	0	3	70	7,816	1	0	3	75	7,915	1	0	3	76
				RCCO	7,246	3	0	3	70	7,806	4	0	4	75	7,905	4	0	4	76
P13	30	1300	128W	T1S	14,438	3	0	3	113	15,554	3	0	3	122	15,751	3	0	3	123
				T2S	14,614	3	0	3	114	15,744	4	0	4	123	15,943	4	0	4	125
				T2M	14,355	4	0	4	112	15,465	4	0	4	121	15,660	4	0	4	122
				T3S	14,606	4	0	4	114	15,735	4	0	4	123	15,934	4	0	4	124
				T3M	14,132	4	0	4	110	15,224	4	0	4	119	15,417	4	0	4	120
				T4M	14,330	4	0	4	112	15,438	4	0	4	121	15,633	4	0	4	122
				TFTM	14,701	4	0	4	115	15,836	4	0	4	124	16,037	4	0	4	125
				TSVS	14,804	4	0	1	116	15,948	4	0	1	125	16,150	4	0	1	126
				TSS	14,679	3	0	1	115	15,814	3	0	1	124	16,014	3	0	1	125
				TSM	14,676	4	0	2	115	15,810	4	0	2	124	16,010	4	0	2	125
				TSW	14,544	4	0	3	114	15,668	4	0	3	122	15,866	4	0	3	124
				BLC	7919	3	0	3	62	8531	3	0	3	67	8639	3	0	3	67
				LCCO	5145	1	0	2	40	5543	1	0	2	43	5613	1	0	2	44
				RCCO	5139	3	0	3	40	5536	3	0	3	43	5606	3	0	3	44

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (0.95 ft²) for optimized pole wind loading.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensors with on-board photocells feature field-adjustable programming and are suitable for mounting heights up to 30 feet.

nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 0 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 0 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C to 50°C ambient with HA option. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



Champ Pro PVML LED luminaires

3,000 to 13,000 lumens

UL/cUL Listed
IEC/CE
Wet Locations
Type 4X; IP66

2L

NOTES: GWPP PROJECT
TYPE: P1

2L

The Champ Pro PVML LED family:

Champ® Pro PVML LED luminaires are engineered to provide maintenance-free illumination in the most demanding harsh and heavy industrial environments.

The Champ PVML features a compact, high efficacy design with custom optics to ensure maximum efficiency and mounting flexibility, including the ability to retrofit the Crouse-Hinds installed base to service both LED upgrades and new projects.

Model	Nominal lumens ^A	Watts	Efficacy	Equivalent HID luminaire
PVML-3	3,250	28	123 lm/W	70W
PVML-5	5,537	45	127 lm/W	100W
PVML-7	7,442	61	127 lm/W	175W
PVML-9	9,234	76	126 lm/W	250W
PVML-11	11,114	92	122 lm/W	320W
PVML-13	13,100	95	125 lm/W	400W

Applications:

- Non-hazardous locations with mounting heights up to 30 feet
- Heavy industrial, mine site processing areas, platforms, loading docks, tunnels, indoor/outdoor spotlighting, outdoor wall and stanchion mounted general area lighting, and areas requiring frequent on-and-off of lights
- Locations requiring continuous and consistent light levels in extreme ambient temperatures
- Where extremely corrosive, wet, dusty, hot and/or cold conditions exist
- Type 4X, marine, wet locations and hose down environments

Features:

- Instant illumination and restrike
- Better visibility with crisp, white light
- Cold temperature operation/no warm-up required
- Option for redundant drivers to avoid complete loss of illumination
- Easy installation – compact modular fixture attaches onto existing Champ mounting module
- Energy-efficient – up to 77% energy savings over HID fixtures
- Contains no mercury or other hazardous substances
- Shock- and vibration-resistant solid state luminaires have no filaments or glass components that could break – greatly reduces the risk of premature failure
- Operating ambient: -40°C to +65°C
- Full cut-off with no wasted light above the fixture
- 5 year fixture warranty

Certifications and compliances:

- DesignLights Consortium® Qualified (pending)^B

NEC/CEC:

- Wet locations, Type 4X, IP66

UL standards:

- UL1598 – Luminaires; UL1598A – Marine

CSA standard:

- cUL Listed to CSA standard CSA C22.2 No. 250

IEC standard:

- CE

Standard materials:

- Lamp housing and adapter – die cast aluminum with Corro-free epoxy powder coat
- Lens – heat- and impact-resistant glass
- Gaskets – silicone
- External hardware – stainless steel
- Factory sealed, no external seals required

Photometrics:

- Refer to www.eaton.com (under the Resources tab of each product family) for specific photometric IES files



LED system:

- High intensity discrete LEDs
- Cool white (5000K, 70 CRI) (standard); warm white (3000K, 80 CRI) or neutral white (4000K, 70 CRI) (optional)
- Custom Type I, III and V optics available

Colored LED options:

- Available in green and amber^C
- Reduction in light pollution for night space observation and sky glow due to isolating blue wavelength in red and amber colors
- Wildlife-friendly
- Improves visibility for telescopes in observatories during night sky space exploration

Net luminaire weights:

Model	Lbs.	Kg.
PVML-3 to PVML-7	19.00	8.62
PVML-9 to PVML-13	19.20	8.70
Add mounting modules:		
Pendant	1.25	0.57
Cone pendant	4.00	1.81
Flexible pendant	1.50	0.68
Ceiling	2.75	1.25
Wall	4.50	2.04
Angled stanchion	3.50	1.59
Straight stanchion	4.50	2.04

^A Nominal lumens based on Type V optics, 5000K CCT with clear glass lens. Wattage measured at 120 VAC.

^B Refer to www.designlights.org Qualified Products List under family models for full listing details. Not all models are approved for all application categories.

^C Custom optics not available with colored LEDs. One model per color; see ordering information.

Champ Pro PVML LED luminaires

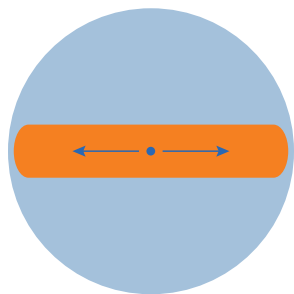
3,000 to 13,000 lumens

UL/cUL Listed
IEC/CE
Wet Locations
Type 4X; IP66

2L

Custom optics:

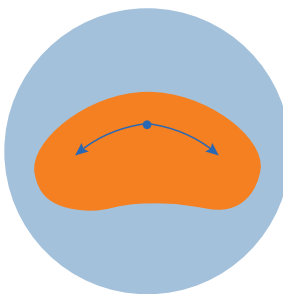
Three optical options to maximize light distribution and intensity:



TYPE I

Long and rectangular for hallways, walkways, loading docks, catwalks.
Ideal for:

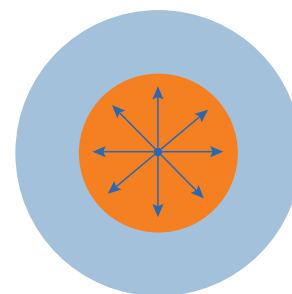
- Mining conveyor belts
- Aisleways and hallways
- Catwalks and walkways
- Ramps and loading docks
- Tunnels with overhead mounts



TYPE III

Wall mount light distribution, minimizing spillover on the wall.
Ideal for:

- Narrow crosswalks or passages with wall mounted fixtures
- Tunnels with wall mount
- Wall or stanchion mount requiring 180° forward throw beam patterns



TYPE V

Regular circular distribution pattern for high/low bay indoor and outdoor ceiling or pendant mount lighting.

Ideal for:

- Pendant, ceiling or stanchion mount overhead building mounts
- Processing mills, industrial plants, large buildings, warehouses, etc.

Electrical ratings:

UNV1 driver	Input power (watts)	Input amps at 100-277 VAC	UNV34 driver	Input power (watts)	Input amps at 347-480 VAC
PVML-3	27	0.27 - 0.10	PVML-3	28	0.08 - 0.06
PVML-5	45	0.45 - 0.16	PVML-5	44	0.13 - 0.09
PVML-7	61	0.61 - 0.21	PVML-7	57	0.16 - 0.12
PVML-7-S892	60	0.60 - 0.23	PVML-7-S892	61	0.18 - 0.13
PVML-9	76	0.76 - 0.26	PVML-9	68	0.20 - 0.14
PVML-9-S892	80	0.80 - 0.29	PVML-9-S892	73	0.22 - 0.15
PVML-11	92	0.92 - 0.32	PVML-11	83	0.24 - 0.17
PVML-11-S892	97	0.97 - 0.35	PVML-11-S892	86	0.25 - 0.18
PVML-13	95	1.06 - 0.42	PVML-13	91	0.29 - 0.17
PVML-13-S892	99	1.10 - 0.36	PVML-13-S892	96	0.31 - 0.19

All models

Power factor	≥0.90
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THD	≤15%
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UNV1

Voltage range, VAC	100-277V at 50/60 Hz
Voltage range, VDC	127-250V

UNV34

Voltage range, VAC	347-480V at 50/60 Hz
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EMC / CE compliance:

If the dimming interface of the LED driver is connected to an external dimmer which is not provided with the luminaire, a ferrite core must be used on the input and dimming lines.
Approved ferrite cores are: Fair-Rite P/N 0431167281.

Ⓢ IEC voltage: 100-240 VAC at 50/60 Hz. For PMVL-3: PF>0.9 from 100-255 VAC.

Champ Pro PVML LED luminaires

3,000 to 13,000 lumens

UL/cUL Listed
IEC/CE
Wet Locations
Type 4X; IP66

2L

2L

Ordering information:

Part number example

PVML-3-N-2A-R1-G-UNV1-S831-UPLT

PMVL

-3

-N

-2A

-R1

-G

-UNV1

-S831

-UPLT

Light source / intensity

3	3,250 nominal lumens
5	5,537 nominal lumens
7	7,442 nominal lumens
9	9,234 nominal lumens
11	11,114 nominal lumens
13 ^E	13,100 nominal lumens
A	Amber – 5,200 lumens
G	Green – 4,300 lumens

Color temperature

BLANK	Cool white (5000K), 70 CRI
N ^F	Neutral white (4000K), 70 CRI
W	Warm white (3000K), 80 CRI

Mounting style

BLANK	No mounting module	2C	¾" ceiling
J	1½" stanchion, 25° angled	3C	1" ceiling
P	1½" stanchion, straight	20C	20mm ceiling
2A	¾" pendant	25C	25mm ceiling
3A	1" pendant	2HA	¾" flexible pendant
20A	20mm pendant	2TW	¾" wall
25A	25mm pendant	3TW	1" wall
2B	¾" cone pendant	20TW	20mm wall
3B	1" cone pendant	25TW	25mm wall

Guard

BLANK	No guard
G	Wire guard

Voltage^H

UNV1	100-277 VAC, 50/60 Hz; 127-250 VDC
UNV34	347-480 VAC, 50/60 Hz

Lens material

BLANK	Clear glass
S831	Diffused glass
S896 ^K	Teflon coated lens
S903	Polycarbonate
UPLT ^L	Uplight refractor lens

Accessories and options^I

S812 ^G	Trunnion mount kit with pin
S831	Safety cable
S890	Quick Clip
S892 ^J	Redundant driver
TB6 ^K	Six-pole terminal block

Optics

BLANK	Type V optic standard
R1	Type I optic (all mounts minus ceiling)
R1A ^G	Type I optic (ceiling with conduit 45° counterclockwise from top hat hinge)
R1B ^G	Type I optic (ceiling with conduit 135° clockwise from top hat hinge)
R3	Type III optic (all mounts minus ceiling)
R3AP ^G	Type III optic (select when using Appleton® top hat adapter with Champ fixture)
R3A1 ^G	Type III optic (ceiling with conduit 45° counterclockwise from top hat hinge)
R3A2 ^G	Type III optic (ceiling with conduit 135° clockwise from top hat hinge)
R3B1 ^G	Type III optic (ceiling with conduit 45° clockwise from top hat hinge)
R3B2 ^G	Type III optic (ceiling with conduit 135° counterclockwise from top hat hinge)

^EFor 13L models, add suffix -M2 at the end of the part number. Example: PVML-13-2A-R1-UNV1-S831-M2.

^FConsult factory for lead time. 5700K and 6500K are available upon request; consult factory. Not available for amber or green LED.

^GAvailable with ceiling mount modules only.

^HIEC voltage: 100-240 VAC at 50/60 Hz.

^IOrdered with fixture or available separately.

^JAvailable for PMVL-7, -9, -11 and -13 only.

^KFor NEC/CEC only.

^LRecommended for use with Type V optic.

Champ Pro PVML LED luminaires

3,000 to 13,000 lumens

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IEC/CE
Wet Locations
Type 4X; IP66

2L

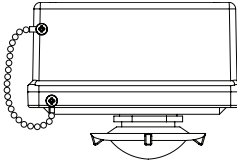
Accessories (ordered separately):

Replacement driver kits

VMVL-3-5-7L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for PVML-3, -5 and -7
VMVL-9-11L-UNV1-DRIVER-KIT	UNV1 replacement driver kit for PVML-9 and -11
VMVL-96W-13L-UNV1-M2-DRIVER-REPL-KIT	UNV1 replacement driver kit for PVML-13
VMVL-3L-5L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for PVML-3 and -5
VMVL-7L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for PVML-7
VMVL-9L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for PVML-9
VMVL-11L-UNV34-DRIVER-KIT	UNV34 replacement driver kit for PVML-11
VMVL-13-M2-DRIVER-KIT	UNV34 replacement driver kit for PVML-13
VMVL-7L-S892-UNV1-DRIVER-KIT	UNV1 replacement redundant driver kit for PVML-7
VMVL-9L-11L-S892-UNV1-DRIVER-KIT	UNV1 replacement redundant driver kit for PVML-9 and -11
VMVL-13-UNV1-S892-M2-DRIVER-KIT	UNV1 replacement redundant driver kit for PVML-13
VMVL-7L-S892-UNV34-DRIVER-KIT	UNV34 replacement redundant driver kit for PVML-7
VMVL-9L-S892-UNV34-DRIVER-KIT	UNV34 replacement redundant driver kit for PVML-9
VMVL-11L-S892-UNV34-DRIVER-KIT	UNV34 replacement redundant driver kit for PVML-11
VMVL-13-UNV34-S892-M2-DRIVER-KIT	UNV34 replacement redundant driver kit for PVML-13
VMVL-AL-GL-UNV1-DRIVER-KIT	UNV1 replacement driver kit for amber or green models

Occupancy sensor

ORDC/UNV1	¾" NPT entry, 100-277 VAC
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Occupancy sensor accessories

CABLE KIT ORD 1	TECK armored cable (5 ft.) with TECK glands (¾")
CABLE KIT ORD 2	P Type non-armored cable (5 ft.) with ADE 1F glands (¾")
CABLE KIT ORD 3	Metal-clad armored cable (5 ft.) with TMC glands (¾")
CABLE KIT ORD 4	SO cable (5 ft.) with ADE 1F glands (¾")
ORDC WKIT	Wall mount kit
ORDC PKIT	Pendant mount kit
ORDC SKIT	Stanchion mount kit
REMOTE CONTROL 1	Remote control for programming sensor



ORDC/UNV1



REMOTE CONTROL 1

Mounting and hardware

VMVL S812 K1	Trunnion mount kit with pin ^M
VMVL S812 K1 DBR	PVC coated trunnion mount kit with pin ^M
VMVL S831 K1	Safety cable
VMVL S890 K1	Quick Clip

Mounting adapters

CHMM1	For Appleton MercMaster III mounts
CHMM2	For MercMaster II mounts
CHMM3	For Thomas & Betts HazLux mounts
CHMM4	For GE H2 Filtr-Gard mounts

Refractor kit

PVML-UPLT-KIT	Uplight refractor lens
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Photocells

D2S20	Photocell, 120V
D2S208 277	Photocell, 208-277V

Lens guard

P3001	Wire guard
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^M Available with ceiling mount modules only.

Champ Pro PVML LED luminaires

3,000 to 13,000 lumens

UL/cUL Listed
IEC/CE
Wet Locations
Type 4X; IP66

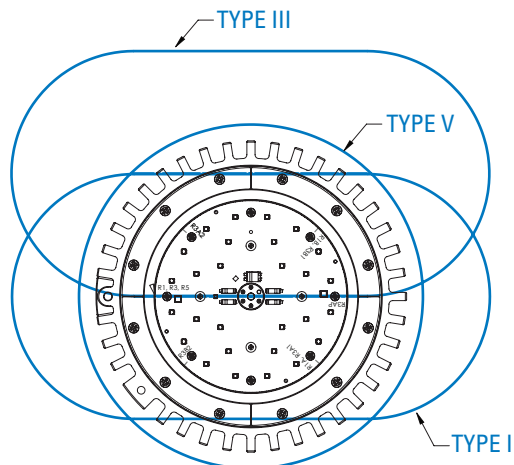
2L

2L

Optics options:

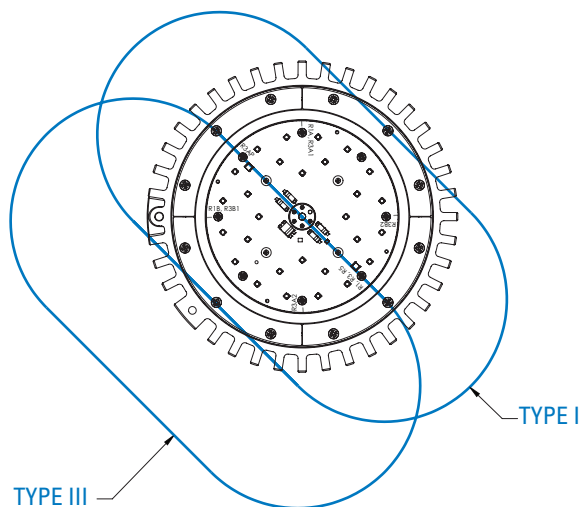
R1, R3 and BLANK

Type I, III and V optics with all mounts minus ceiling



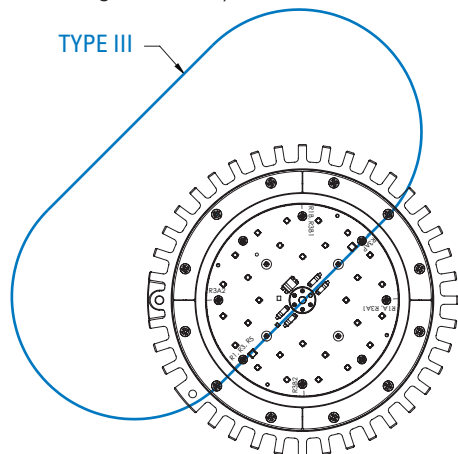
R1B and R3B1

Type I and Type III ceiling mount only



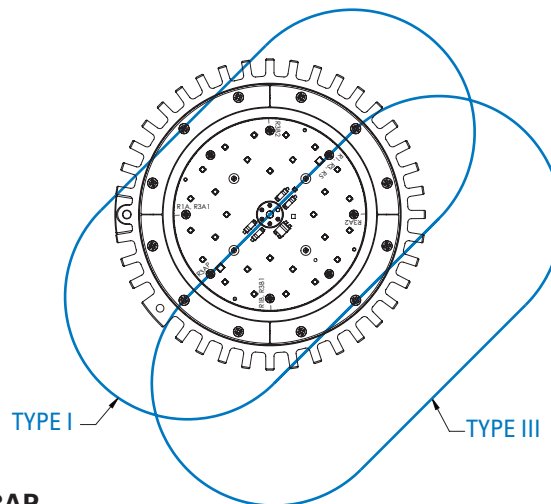
R3A2

Type III ceiling mount only



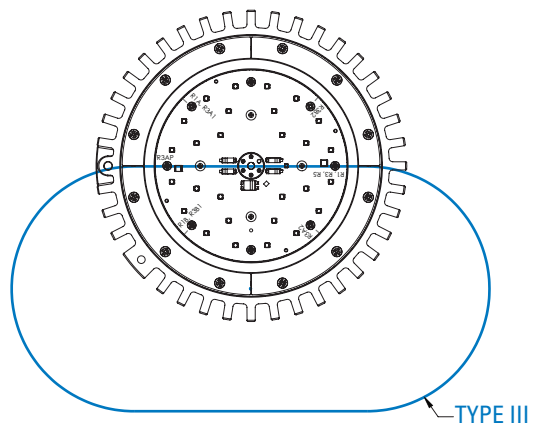
R1A and R3A1

Type I and Type III ceiling mount only



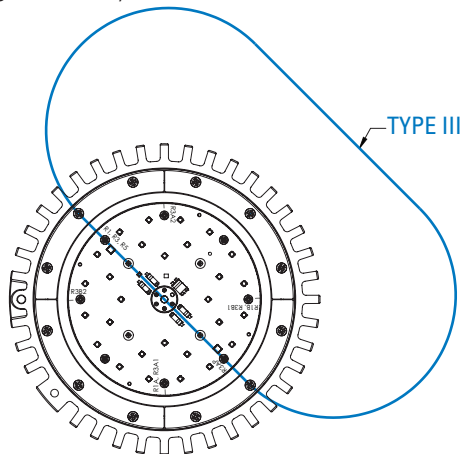
R3AP

Type III wall mount



R3B2

Type III ceiling mount only



Champ Pro PVML LED luminaires

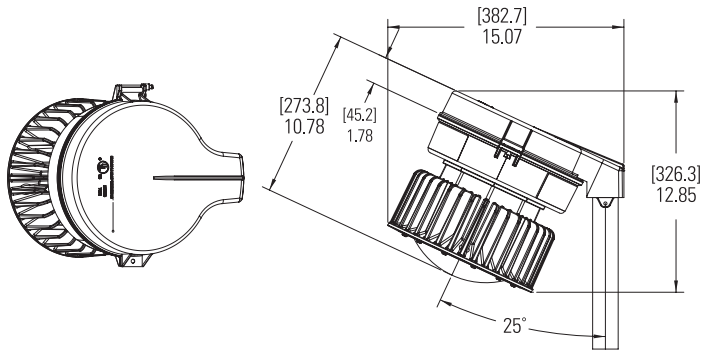
3,000 to 13,000 lumens

UL/cUL Listed
IEC/CE
Wet Locations
Type 4X; IP66

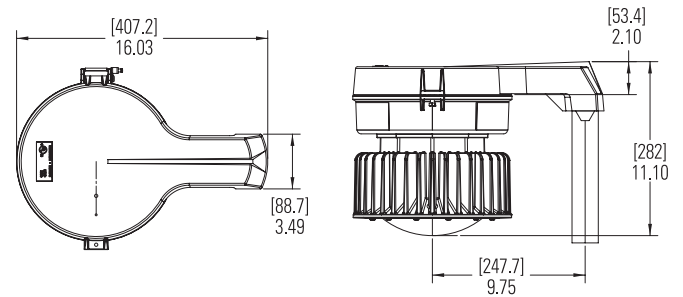
2L

Dimensions:

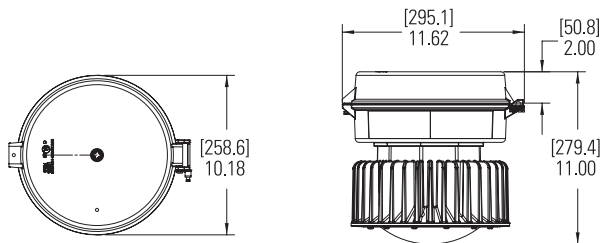
Stanchion - 25° angled



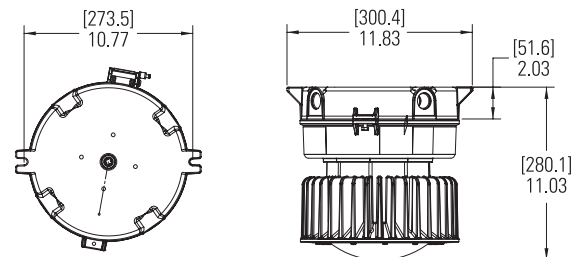
Stanchion - straight



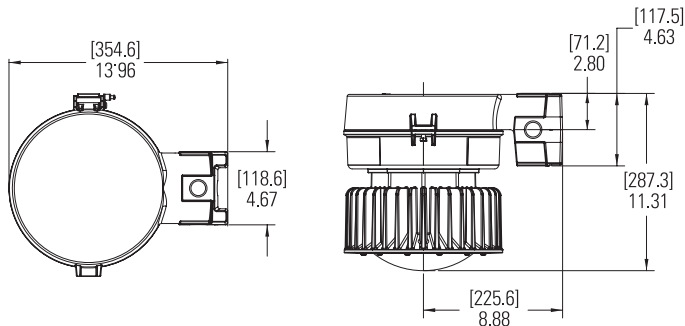
Pendant



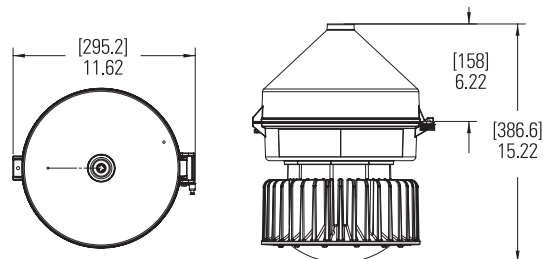
Ceiling



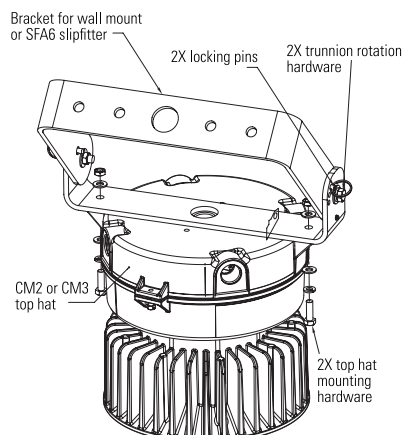
Wall



Cone pendant



Trunnion



Mounting module series:

