

Design Review Subcommittee (DRSC)

Meeting Date: October 9, 2019

PLANNER: David Carrillo, Assistant Planner

SUBJECT: Well Filtration Plant Rehabilitation Chemical Storage Building Project No. 16408, a request for design feedback on a new 320 square-foot utility storage building that will serve the City's well water treatment system at the Municipal Golf Course.

BACKGROUND:

Project Description

The City's Well Filter Plant is located at the north corner of Avenida Santa Margarita and Calle Bahia in the Publicly and Privately Owned Golf Course (OSC) Zone. Refer to the location map in Attachment 1. The facility currently treats water from Wells 6 and 8 with gaseous Chlorine (Cl2) and gaseous Sulfur Dioxide (SO2), and supplies water to the City's 1-295 service zone (Reservoir 1). The project involves the construction of a chemical storage building to accommodate a safer water treatment method that will eliminate the use of gaseous chemicals and replace them with liquid Sodium Hypochlorite (NaOCl), liquid Sodium Bisulfite (NaHSO3), and liquid Aqueous Ammonia (NH3).

The first two chemicals will be housed in a new 320 square-foot chemical storage building located near the Well Filter Plant. An existing generator and gas scrubber will be removed to accommodate the location of the new storage building. The utility building is 16'-0" x 20'-0" in area and 12 feet, 8 inches in height. Proposed materials include brown concrete roof shingles and light brown stucco. See Attachment 2 for construction plans. The third chemical, ammonia, will be housed in an existing building constructed of CMU block located at the Reservoir 1 site. Both storage buildings are unmanned and will periodically be inspected by Utilities staff for routine equipment maintenance.

Why is DRSC Review Required?

Per Zoning Ordinance Section 17.28.230, capital improvement projects are subject to review procedures outlined in the City's Public Works Department policy (Policy No. 102-8). The policy encourages the Public Works Department to ensure projects are designed to meet City standards while collaborating with appropriate City divisions. The policy also gives the Public Works Director discretion on how to resolve design issues. Additionally, General Plan Policy UD-5.09, Public Buildings, states "We require Spanish Colonial Revival architecture for the development and major remodels of public buildings..."

The Public Works Director, Tom Bonigut, referred the project to the Design Review Subcommittee (DRSC) for feedback on the appropriateness of Spanish Colonial Revival architecture on the proposed utility building.

ANALYSIS:

The proposed utility building is designed to match other utility buildings in San Clemente consisting of brown concrete roof shingles and light brown stucco. The project would mimic the existing utility building shown in Attachment 3. The majority of all utility buildings with this design are located in areas not highly visible by the community. The project differs from other utility buildings in that it is centrally located between residential neighborhoods and the Municipal Golf Course. The proposed building is only intended to be occupied by the City Utilities Division, and not by members of the community. However, streets and pathways surrounding the project area make the proposed building visible by drivers, residents, and golfers. Image 1 below shows the project area and its relation between residences, streets, and pathways. See Attachment 4 for photos of the project area.



Image 1 – Project Site

The project is not located in an Overlay District, Specific Plan, or a Focus Area where a specific type of architecture is identified for new buildings. However, Policy UD-5.09 of the General Plan mentioned above requires Spanish Colonial Revival architecture for new public buildings. Recent examples of "public buildings" include the Talega fire station, Aquatics Center, and Vista Bahia Park restroom. It is unclear whether the policy applies to accessory utility structures, such as the new unmanned chemical storage building.

Various factors were considered in the development of the project's design, including: previously approved utility building designs, the approved CIP budget, ongoing maintenance costs, and potential damage to the building (i.e., golf balls hitting the roof). Staff assessed potential damage to the building and concluded that trees and shrubs provide a physical barrier between the project and nearest tee box, thereby alleviating any physical threats from golf balls. Additionally, golfers do not tee off towards the project area, and instead direct golf balls along the fairway towards Vista Bahia Park. Although golf balls are not intended to travel towards the proposed storage building, it is possible that mishit golf balls could make contact with the proposed building and damage roof materials. Per staff's assessment, deviation from typical Spanish Colonial Revival (SCR) materials and detail can be considered for durability purposes, while still achieving a SCR appearance.

RECOMMENDATIONS:

Staff seeks input from DRSC on the building design and a determination on whether the application of SCR architecture is appropriate. While the project is not a typical "public building," its location and visibility to the public warrant the need to incorporate some SCR design elements into the storage building. Staff recommends incorporating one or more basic SCR elements, such as (in order of highest to lowest priority):

- 1. White stucco;
- Metal Spanish tile such as Decra Villa Metal Tile (see Attachment 5); (Note: Typically, two-piece clay tile roofs are recommended for SCR buildings. However, in order to address cost, damage, and maintenance concerns, staff believes metal material is an appropriate alternative for the utility building.)
- 3. Exposed rater tails;
- 4. Decorative clay tile gable vents; and/or
- 5. Vertical landscaping directly adjacent to the building.

The Subcommittee's recommendations will be forwarded to the Public Works Director for consideration in the final construction plans. The approved budget allows design improvements to the proposed utility building. However, full integration of Spanish Colonial Revival architectural elements may impact available funds for maintenance of existing utility buildings and future projects.

Attachments:

- 1. Location Map
- 2. Construction Plans
- 3. Photograph of Existing Utility Building
- 4. Photos of Project Area
- 5. Decra Villa Metal Tile Brochure

ATTACHMENT 1





City of San Clemente

City of San Clemente: Project No. 16408 Well Filtration Plant Chemical Storage Building







VICINITY MAP

CITY OF SAN CLEMENTE

WELL FILTER PLANT REHABILITATION CHEMICAL STORAGE BUILDING

PROJECT NO. 16408



North

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LOCATION MAP

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MECHANICAL PLAN AND SECTIONS

DETAILS I

DETAILS II

DIAGRAM

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2. CONSTRUCT WATER QUALITY SAMPLING STATION (TO BE FIELD LOCATED): INCLUDING ¾" × 16" DOUBLE STRAP BRONZE SERVICE SADDLE, ¾" BALL CORP STOP, ¾" TYPE K COPPER TUBING, SAMPLING STATION METER BOX WITH ¾" BALL VALVE AND ¾" TYPE K COPPER TUBING FROM METER BOX TO ½" SS KORALEEN WATER QUALITY SAMPLING STATION (COMPLETE WITH ½" × ¾" SHUT-OFF VALVE AND ½" SS SAMPLING STATION (COMPLETE WITH ½" × ¾" SHUT-OFF VALVE AND ½" SS SAMPLING STATION TO COPPER TUBING, KORALEEN 6" O.D. ALUMINUM HOUSING AND LID WITH FLUSH MOUNTED LOCK, ALUMINUM HOUSING TO BE FILLED WITH PEA GRAVEL, AND MISCELLANEOUS FITTINGS AND BRASS NIPPLES. ALL INSTALLED PER KORALEEN ENTERPRISES, ESCONDIDO, CA, TELEPHONE (760) 743-0407, INSTALLATION INSTRUCTIONS USING CITY OF SAN CLEMENTE APPROVED MATERIALS.



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| LANT REHABILITATION CHEMICAL STORAGE BUILDING PROJECT NO. 16408 | DRAWING | G NO: | FP-2 |
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| WELL FILTER PLANT IMPROVEMENT PLAN | SHEET | 5 | |
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| DOOR S | CHED | ULE |
|---------------|-------------------|-------------------|
| DOOR | A | B |
| SIZE | 8'-8"W x8'-8"H | 6'-0"W x7'-4"H |
| TYPE | ROLLUP | DOUBLE |
| THICKNESS | - | 13⁄4" |
| HAND | - | LHR/ RHR |
| CORE | - | нм |
| MATERIAL | - | нм |
| FINISH | FF | PT |
| CLOSER | - | x |
| HINGE | - | SS |
| EXIT DEVICE | - | x |
| KICK PLATE | - | x |
| OVERHEAD STOP | - | x |
| DRIP CAP | - | x |
| DOOR SWEEP | - | X |
| DOOR SEALS | - | Х |
| THRESHOLD | - | x |

DOOR ABBREVIATIONS:

- AL ALUMINUM AN ANODIZED ALUMINUM FF FACTORY FINISH

- FF FACTORY FINISH IM INSULATED METAL HM HOLLOW METAL PL PLASTIC LAMINATE PT PAIR PR PAIR SC SOLID CORE SS STAINLESS STEEL TG TEMPERED GLAZING WD WOOD X REQUIRED

GENERAL NOTES:

- 1. ALL DOORS SHALL COMPLY WITH CBC.
- 2. ALL DOOR HARDWARE SHALL BE LEVEL TYPE, PUSH-PULL ACTIVATING BARS OR PANIC HARDWARE PER CBC.



| LANT REHABILITATION CHEMICAL STORAGE BUILDING PROJECT NO. 16408 | DRAWIN | G NO: | FP-6 |
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| WELL FILTER PLANT CHEMICAL BUILDING ELEVATIONS | SHEET | 9 | |
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| STING FILTRATION PLANT DESIGN CRI | TERIA |
|-----------------------------------|------------|
| DESCRIPTION | AVG. VALUE |
| INFLUENT FLOW RATE | 400 GPM |
| INFLUENT FLOW RATE | 800 GPM |

CHEMICAL DOSING DESIGN CRITERIA

| DESCRIPTION | CONTROLLED BY | DESIGN DOSAGE |
|--|-----------------------------|------------------|
| RITE PUMP SKID DOSING RATE (WELL 6 FILTER, OXIDATION) | WELL 6 FILTER FLOW METER | 0.09 GPH |
| RITE PUMP SKID DOSING RATE (WELL 8 FILTER, OXIDATION) | WELL 8 FILTER FLOW METER | 0.59 GPH |
| RITE PUMP SKID DOSING RATE (WELL 6 FILTER, DISINFECTION) | WELL 6 FILTER FLOW METER | 0.42 GPH |
| RITE PUMP SKID DOSING RATE (WELL 8 FILTER, DISINFECTION) | WELL 8 FILTER FLOW METER | 0.84 GPH |
| PUMP SKID DOSING RATE (WELL 6 FILTER) | WELL 6 FILTER FLOW METER | 0.03 GPH |
| PUMP SKID DOSING RATE (WELL 8 FILTER) | WELL 8 FILTER FLOW METER | 0.07 GPH |



| LANT REHABILITATION CHEMICAL STORAGE BUILDING PROJECT NO. 16408 | DRAWING NO: FP-7 |
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| WELL FILTER PLANT EMICAL BUILDING MECHANICAL PLAN | SHEET 10 |
| OF SAN CLEMENTE | OF <u>24</u> |



APPROVALS

REVISIONS

REFERENCES

D.T. REBENSDORF RCE C60091 DEPUTY PUBLIC WORKS DIRECTOR

DATE

| FILTER PLANT REHABILITATION CHEMICAL STORAGE BUILDING PROJECT NO. 16408 | DRAWING NO: | FP-8 |
|--|-------------|------|
| WELL WATER FILTRATION PLANT CHEMICAL BUILDING MECHANICAL SECTIONS | SHEET 11 | |
| CITY OF SAN CLEMENTE | OF24 | |



ATTACHMENT 4



PROJECT AREA PHOTOGRAPHS



View of project area from Avenida Santa Margarita/the golf course



PROJECT AREA PHOTOGRAPHS





View of project area and golf cart path.



PROJECT AREA PHOTOGRAPHS



View of nearest tee box and vegetation barrier.

ATTACHMENT 5





DECRA VILLA TILE



Villa Tile Amalfi Sand



Villa Tile Pompeii Ash



Villa Tile Tuscan Sun



Villa Tile Capri Clay



Villa Tile Rustico Clay



Villa Tile Venetian Gold

LEARN MORE AT DECRA.COM

METAL ROOFING ISN'T WHAT IT USED TO BE

VILLA TILE FEATURES:

Lifetime Limited Warranty* (including 120 mph winds and hail penetration)

Class 4 Impact Resistance to UL 2218 by Underwriters Laboratories (Highest Rating)

Lightweight – Only 160 lbs./100 sq. ft. Installed

Non-Combustible Class A Rated Material

Won't Crack, Break, Burn, Curl, Split or Rot

Walkable, Low Maintenance, Long Life

Non-Porous, Freeze / Thaw Resistant

Interlocking Panels Provide Protection Against the Elements

> Tear-Off May Not Be Required (See local code)

Reduces Energy Consumption & Landfill Impact

Direct to Deck Application

Unique Hidden Fastener System

"Cut & Tuck"™ Technology (No Special Tools Required)



*DECRA Lifetime Limited Warranty is only applicable to single family detached residential property in the U.S. & Canada.

