

# Marina Coast Water District

Sanitary Sewer Lift Station Rehabilitation Project

CIP GS-2531 / CIP GS-2532



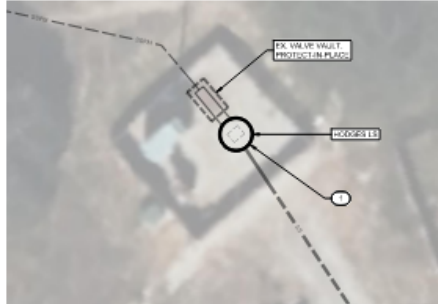
Existing Lift Station Conditions and Virtual Field Walk

March 6, 2025

# GS-2531 Overview

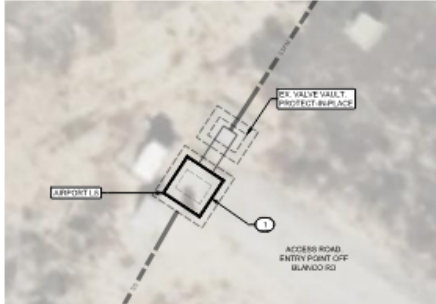
**REFERENCE NOTES:**

- LINE EX. LIFT STATION WETWELL WITH EPOXY COATING PER SPECIFICATION SECTION 0966 RS. REFER TO TABLE 1, THIS SHEET, FOR EX. WETWELL DIMENSIONS. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO SUBMITTAL AND MATERIAL PROCUREMENT.



1 HODGES LIFT STATION SCALE: 1" = 10'

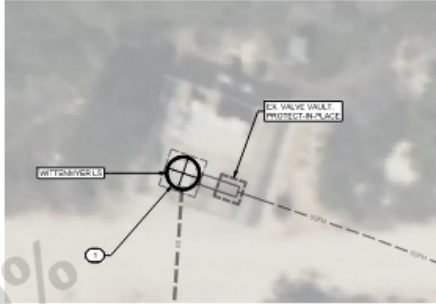
## SHEET C-1.1



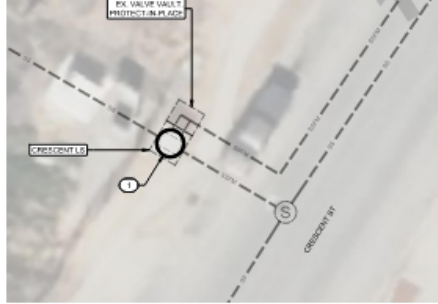
2 AIRPORT LIFT STATION SCALE: 1" = 10'



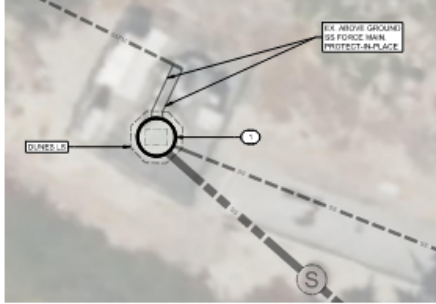
3 NEESON LIFT STATION SCALE: 1" = 10'



4 WITTENMYER LIFT STATION SCALE: 1" = 10'



5 CRESCENT LIFT STATION SCALE: 1" = 10'



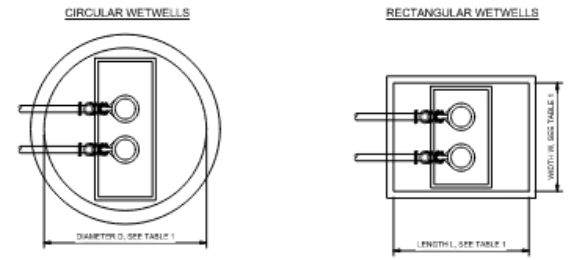
6 DUNES LIFT STATION SCALE: 1" = 10'

**TABLE 1 - LIFT STATION LINING REHABILITATION**

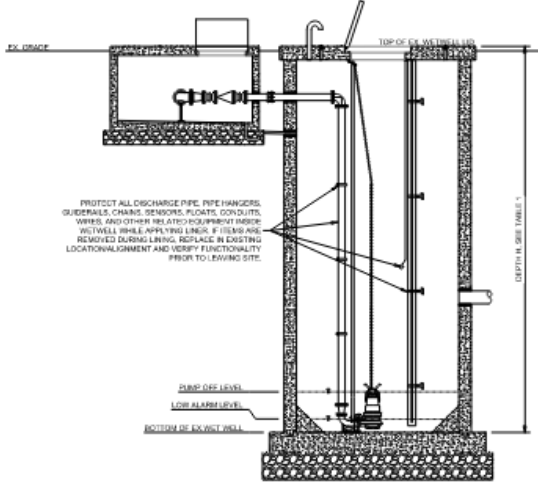
WETWELL ID	LEGACY ID	WETWELL SHAPE	DIA. D (FT)	LENGTH, L (FT)	WIDTH, W (FT)	DEPTH, H (FT)
HODGES LS	HODGES LS	CIRCULAR	6.0	N/A	N/A	13.0
AIRPORT LS	FRITZCHE LS	RECTANGULAR	N/A	8.0	8.0	11.0
NEESON LS	NEESON LS	RECTANGULAR	N/A	6.0	6.0	15.0
WITTENMYER LS	WITTENMYER LS	CIRCULAR	6.0	N/A	N/A	16.0
CRESCENT LS	LS 6	CIRCULAR	5.0	N/A	N/A	11.0
DUNES LS	LS 2	CIRCULAR	6.0	N/A	N/A	20.0

**GENERAL NOTES:**

- ACTUAL MATERIAL IS SOURCED FROM CDRU LABORATORY AND IS PROVIDED FOR REFERENCE ONLY.
- SEWER INFRASTRUCTURE LOCATIONS AND SIZES ARE BASED ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS AND MEASUREMENTS PRIOR TO SUBMITTAL AND ORDERING.
- REFER TO SHEET C-1.2 FOR ANTICIPATED SEWER BYPASS FLOWS. REFER TO SPECIFICATION SECTION 33.31.25 FOR BYPASS REQUIREMENTS.



7 TYPICAL LIFT STATION WETWELL PLAN VIEW SCALE: 1" = 4'



8 TYPICAL LIFT STATION PROFILE VIEW SCALE: 1" = 4'



WALLACE GROUP  
 CIVIL AND ENVIRONMENTAL ENGINEERING  
 CONSULTING ENGINEERS  
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 REGISTERED PROFESSIONAL ENGINEERS  
 PLANNING  
 PUBLIC WORKS ADMINISTRATION  
 ENVIRONMENTAL SCIENCE  
 WATER RESOURCES



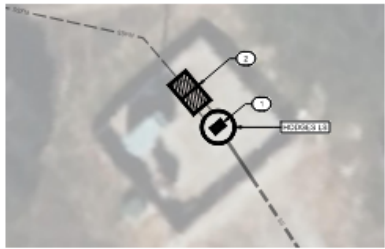
551 CLARION COURT  
 SAN LUIS OBISPO, CA 93901  
 P 805 563-0271 F 805 563-0282  
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MARINA COAST WATER DISTRICT  
 SANITARY SEWER LIFT STATION REHABILITATION  
 CIP GS-2531 SITE PLAN  
 DRAWING NO.  
 C-1.1  
 2 OF 6 SHEETS

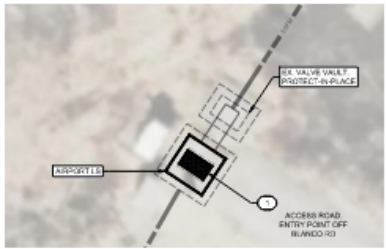
## Project Scope:

- Epoxy lining of six (6) SS lift stations:
  - Hodges LS
  - Airport LS
  - Neeson LS
  - Wittenmyer LS
  - Crescent LS
  - Dunes LS
- Bypassing required.
- Anticipated bypass flows based on MCWD Sanitary Sewer Master Plan:
  - Flows provided on Sheet C-1.2
  - Contractor to verify

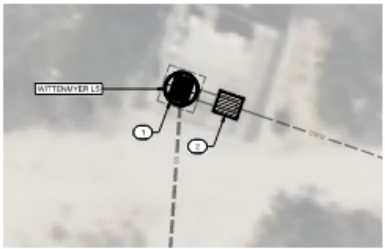
# GS-2532 Overview



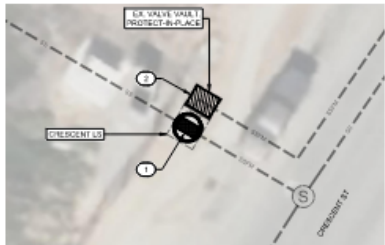
1 HODGES LIFT STATION SCALE: 1"=10'



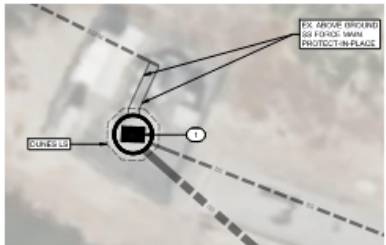
2 AIRPORT LIFT STATION SCALE: 1"=10'



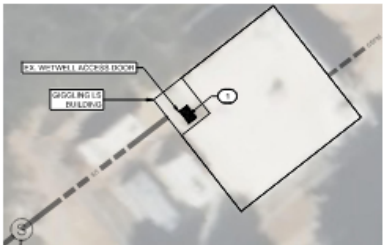
3 WITTENMYER LIFT STATION SCALE: 1"=10'



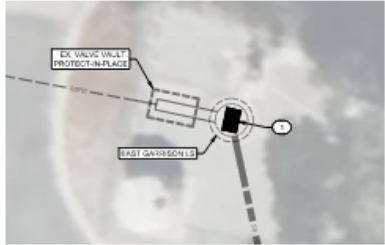
4 CRESCENT LIFT STATION SCALE: 1"=10'



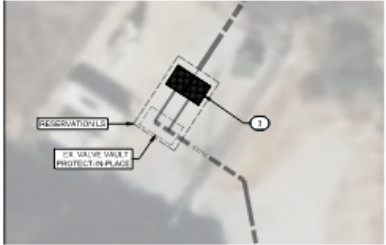
5 DUNES LIFT STATION SCALE: 1"=10'



6 GIGGLING LIFT STATION SCALE: 1"=10'



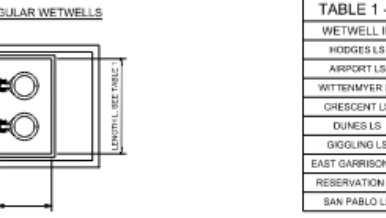
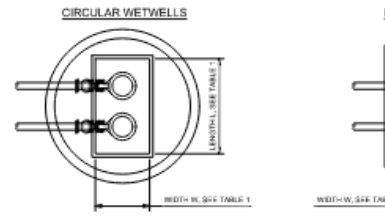
7 EAST GARRISON LIFT STATION SCALE: 1"=10'



8 RESERVATION LIFT STATION SCALE: 1"=10'



9 SAN PABLO LIFT STATION SCALE: 1"=10'



10 WETWELL ACCESS DOOR DIMENSIONS - PLAN VIEW SCALE: 1"=4'

WETWELL ID	LEGACY ID	DOOR STYLE	LENGTH, L (IN)	WIDTH, W (IN)
HODGES LS	HODGES LS	DOUBLE LEAF	60.0	48.0
AIRPORT LS	FRITZCHE LS	DOUBLE LEAF	62.5	46.0
WITTENMYER LS	WITTENMYER LS	DOUBLE LEAF	54.0	48.0
CRESCENT LS	LS 6	SINGLE LEAF	48.5	32.0
DUNES LS	LS 2	SINGLE LEAF	48.0	36.0
GIGGLING LS	GIGGLING LS	SINGLE LEAF	32.0	24.0
EAST GARRISON LS	EGLS	SINGLE LEAF	48.0	30.0
RESERVATION LS	RESERVATION LS	DOUBLE LEAF	72.0	48.0
SAN PABLO LS	LS 3	DOUBLE LEAF	58.0	38.0

- REFERENCE NOTES:**
1. PROVIDE NEW WETWELL SAFETY GRATE IN-PLA. ACCESS DOOR OPENING PER SPECIFICATION SECTION 08 31 13, HALLWAY SERIES X RETRO-GRADE OR APPROVED EQUAL. REFER TO TABLE 1, THIS SHEET, FOR EXISTING WETWELL ACCESS DOOR OPENING DIMENSIONS.
  2. REPLACE EX VALVE VAULT DOORS WITH NEW SPRING-ASSISTED, DUAL LEAF TRAFFIC-RATED ACCESS DOORS, HALLWAY SERIES SDR, OR APPROVED EQUAL. REFER TO SPECIFICATION SECTION 08 31 13.
  3. REPLACE EX ACCESS DOOR WITH NEW SPRING-ASSISTED, DUAL LEAF ACCESS DOORS, HALLWAY SERIES SDR, OR APPROVED EQUAL. THE NEW ACCESS DOOR FRAME INTO EX. PRE-CAST CONCRETE WETWELL. EX. CONTRACTOR TO PROVIDE TR. IN DETAIL IN ACCORDANCE WITH SPECIFICATION SECTION 08 31 13. ALL NEW WETWELL ACCESS DOORS SHALL BE EQUIPPED WITH SAFETY GRATES.

- GENERAL NOTES:**
1. CONTRACTOR TO VERIFY ALL DIMENSIONS OF WETWELL AND VAULT ACCESS DOORS AND FRAMES AND SAFETY GRATING PRIOR TO SUBMITTAL AND ORDERING.
  2. ANTICIPATED SANITARY SEWER BYPASS FLOWS, PER LIFT STATION:
    - 2.1. HODGES LIFT STATION: 180 GPM
    - 2.2. AIRPORT LIFT STATION: 180 GPM
    - 2.3. WITTENMYER LIFT STATION: 140 GPM
    - 2.4. CRESCENT LIFT STATION: 130 GPM
    - 2.5. DUNES LIFT STATION: 110 GPM
    - 2.6. GIGGLING LIFT STATION: 90 GPM
    - 2.7. EAST GARRISON LIFT STATION: 230 GPM
    - 2.8. RESERVATION LIFT STATION: 710 GPM
    - 2.9. SAN PABLO LIFT STATION: 235 GPM
    - 2.10. NEESON LIFT STATION: 118 GPM



CONSTRUCTION MANAGEMENT  
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SANITARY ENGINEERING  
WATER RESOURCES



MARINA COAST WATER DISTRICT  
SANITARY SEWER LIFT STATION REHABILITATION  
CIP GS-2532 SITE PLAN

DESIGNED BY: WALLACE GROUP  
CHECKED BY: WALLACE GROUP  
DATE: 08/20/2024  
DRAWING NO.: C-1.2  
3 OF 6 SHEETS

## Project Scope:

- Seven (7) retrofit safety gate installations:
  - Hodges LS
  - Airport LS
  - Wittenmyer LS
  - Crescent LS
  - Dunes LS
  - Giggling LS
  - East Garrison LS
- Two (2) new wet well doors, with safety grates:
  - Reservation LS
  - San Pablo LS
- Three (3) new valve vault doors:
  - Hodges LS
  - Wittenmyer LS
  - Crescent LS

SHEET C-1.2

# Hodges Lift Station



## Scope:

- GS-2531:
  - Epoxy lining wet well
- GS-2532:
  - Retrofit safety grate in ex. wet well access door
  - New valve vault access door

## Considerations:

- Confirm bypass flow requirements
- Confirm wet well, vault door dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect ex. pumps, pipes, fittings during lining.

# Airport Lift Station



## Scope:

- GS-2531:
  - Epoxy lining wet well
- GS-2532:
  - Retrofit safety grate in ex. wet well access door

## Considerations:

- Confirm bypass flow requirements
- Confirm wet well dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect ex. pumps, pipes, fittings during lining.

# Neeson Lift Station



## Scope:

- GS-2531:
  - Epoxy lining wet well

## Considerations:

- Confirm bypass flow requirements
- Confirm wet well dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect ex. pumps, pipes, fittings during lining.

# Wittenmyer Lift Station



## Scope:

- GS-2531:
  - Epoxy lining wet well
- GS-2532:
  - Retrofit safety grate in ex. wet well access door
  - New valve vault access door

## Considerations:

- Confirm bypass flow requirements
- Confirm wet well, vault door dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect ex. pumps, pipes, fittings during lining.

# Crescent Lift Station



## Scope:

- GS-2531:
  - Epoxy lining wet well
- GS-2532:
  - Retrofit safety grate in ex. wet well access door
  - New valve vault access door

## Considerations:

- Confirm bypass flow requirements
- Confirm wet well, vault door dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect ex. pumps, pipes, fittings during lining.



# Dunes Lift Station



## Scope:

- GS-2531:
  - Epoxy lining wet well
- GS-2532:
  - Retrofit safety grate in ex. wet well access door

## Considerations:

- Confirm bypass flow requirements
- Confirm wet well, door frame dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect ex. pumps, pipes, fittings during lining.

# Giggling Lift Station



## Scope:

- GS-2532:
  - Retrofit safety grate in ex. wet well access door

## Considerations:

- Confirm door, frame dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect existing sensors, floats, and cables

# East Garrison Lift Station



## Scope:

- GS-2532:
  - Retrofit safety grate in ex. wet well access door

## Considerations:

- Confirm door, frame dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect existing lining, sensors, floats, and cables

# Reservation Lift Station



## Scope:

- GS-2532:
  - Install new wet well access door, with safety grate

## Considerations:

- Confirm door, frame dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect existing lining, sensors, floats, and cables

# San Pablo Lift Station



## Scope:

- GS-2532:
  - Install new wet well access door, with safety grate

## Considerations:

- Confirm door, frame dimensions
- Keep construction activities within MCWD easement, limits of wet well
- Protect existing lining, sensors, floats, and cables
- LS is in very close proximity to residential units, be mindful of work hours, noise