

# Marina Coast Water District

Sanitary Sewer Manhole Rehabilitation Project

CIP OS-0350 / CIP OS-2305



Existing Manhole Conditions and Virtual Field Walk

March 5, 2025

# OS-0350 Overview

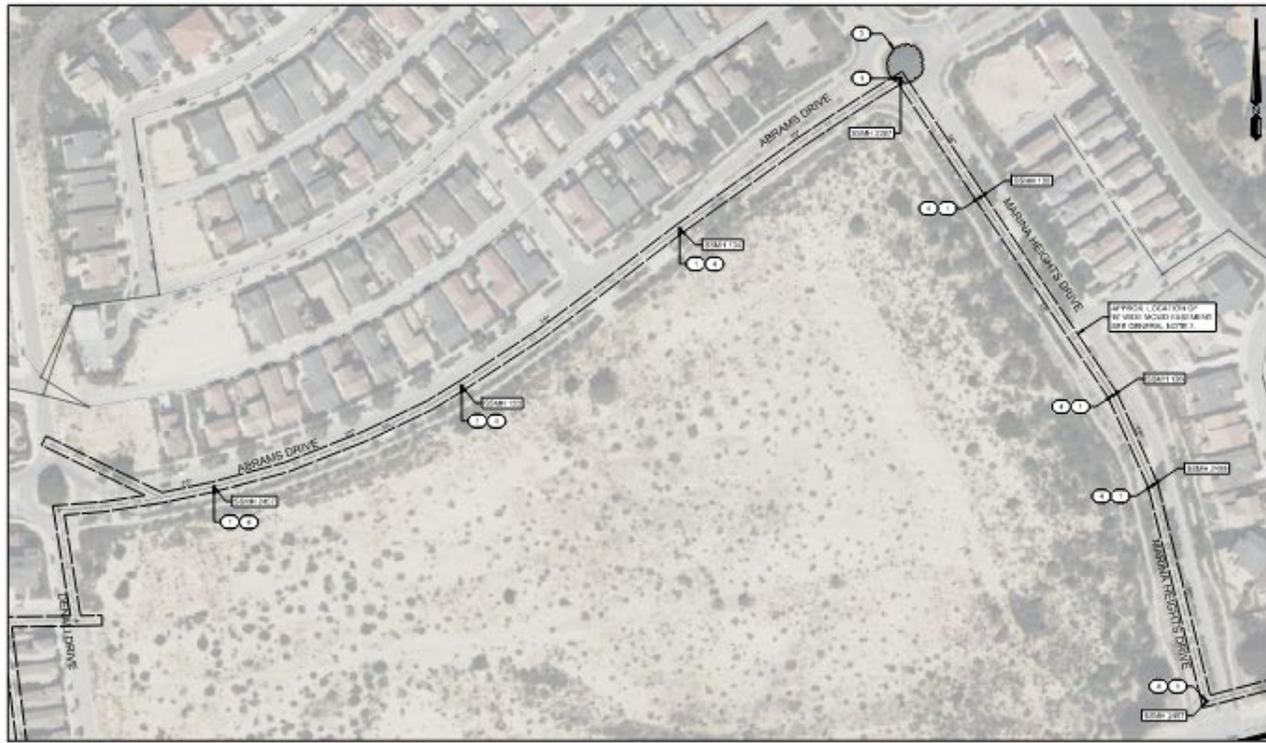


MANHOLE REHABILITATION			
MANHOLE ID	LEGACY ID	DIA (IN)	DEPTH (FT)
2457	MH11.12	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
133	MH11.13	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
134	MH11.14	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
2367	MH11.15	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
135	MH11.16	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
136	MH11.17	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.
2459	MH11.18	48	10.7
652	MH11.19	48	12.0
659	PO4	48	ASSUME 10.0 FT. SEE GENERAL NOTE 4.

REFERENCE NOTES: (C)	
1	PROVIDE WITH POLYMER CONCRETE MANHOLE REHABILITATION INSERT PER SPECIFICATION SECTION 01 30 00. REFER TO DETAILS 1, 2, AND 3. SHEET C-1.1 FOR DETAILS FOR MANHOLE REHABILITATION COMPONENTS.
2	FOR SIX MANHOLES WITH EPDM COATING PER SPECIFICATION SECTION 01 30 00 REMOVE AND REPLACE EX. MANHOLE FRAME, COVER, AND CONCRETE COLLAR PER SPECIFICATION SECTION 01 30 00 AND REMOVE STRENGTHENING BY FACTOR 1.5. REFER TO SHEET C-1.1 FOR PRELIMINARY RESTORATION. RESTORATION SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF MARINA STANDARD PLAN SET 3. REFER TO SHEET C-1.1.
3	COORDINATE WITH CITY OF MARINA FOR TREE TRIMMING REQUIREMENTS. REFER TO SPECIFICATION SECTION 01 30 00.
4	PROTECT MANHOLE EX CURB, UTILITY AND SEWERLINE CONNECTIONS SHALL BE PLACED IN DAMAGED SECTIONS IN ACCORDANCE WITH CITY OF MARINA STANDARDS. SEE SHEET C-1.1 FOR CONCRETE REPAIR SHALL BE MONOLITHIC FROM JOINT TO JOINT.

GENERAL NOTES:	
1	WORK OCCURS WITHIN OR CLOSE PROJECT SITE 1 LOCATED WITHIN THE COUNTY OF MONTEREY. WORK SHALL BE CONSIDERED PROJECT SITE 2 OCCURS WITHIN THE CITY OF MARINA.
2	ADDITIONAL MANHOLE LOCATIONS FROM GIS/LANDSAT IMAGES, AND IS PROVIDED FOR REFERENCE ONLY.
3	SEWER INFRASTRUCTURE LOCATIONS AND DEPTHS ARE BASED ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS, DEPTHS, AND MEASUREMENTS PRIOR TO SUBMITTAL AND ORDERING.
4	EX. SEWER COVER AND STRUCTURE DURING FIELD INVESTIGATION. DEPTHS SHALL NOT BE CONFIRMED. APPROVED CONTRACTORS ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO REVERSE EX. COVER AND FRAME AND VERIFY DEPTH PRIOR TO SUBMITTAL AND ORDERING. CONTRACTOR TO INSTALL 12" X 12" POLYMER CONCRETE MANHOLE WHILE EXPLORATORY WORK IS PERFORMED. PLACE COLD-BOX ASPHALT AROUND LIP OF FRANCH PLAN.
5	WORK OCCURS WITHIN THE RIGHT-OF-WAY OF THE COUNTY OF MONTEREY (PROJECT SITE 1) AND THE CITY OF MARINA (PROJECT SITE 2) RESPECTIVELY. CONTRACTOR SHALL PROVIDE THE NECESSARY ENCLOSURE FROM THE AGENCY HAVING JURISDICTION FOR SPECIFICATION SECTION 01 11 00 AND RELATED SECTIONS.
6	ANTICIPATED SEWER BYPASS FLOWS PROVIDED BELOW. FLOWS BASED ON PEAK DAY PEAK HOUR FLOW DATA OF THE SAN MARINA COAST WATER DISTRICT SEWER MAINS PLAN. OPERATIONS TO VERIFY FLOWS AS PART OF SEWER BYPASS PLAN PER SPECIFICATION SECTION 01 30 00.
6.1	PROJECT SITE 1: 800 GPM
6.2	PROJECT SITE 2: 1,000 GPM
7	IF WORK BEYOND ENHANCEMENT, CENTERED ON CL OF EX. SANITARY SEWER MAINS, ALL ENHANCEMENTS ARE SHOWN AS APPROXIMATE.

1 CIP OS-0350 PROJECT SITE 1 - IMPROVEMENT PLAN  
SCALE: 1" = 20'



2 CIP OS-0350 PROJECT SITE 2 - IMPROVEMENT PLAN  
SCALE: 1" = 20'



DESIGN AND CONSTRUCTION OF SEWER MAINS AND SEWER TREATMENT PLANTS  
1000 W. CALLE REAL, SUITE 100  
SAN MARINO, CA 91764  
TEL: 909.449.1111 FAX: 909.449.1112  
WWW.PULLACEGROUP.COM



PROJECT:  
DATE:  
DRAWN BY:  
CHECKED BY:  
APPROVED BY:  
DATE:

MARINA COAST WATER DISTRICT  
SANITARY SEWER MANHOLE REHABILITATION  
CIP OS-0350 SITE PLAN

DATE: 10/20/2023  
DRAWN BY: J.P.  
CHECKED BY: J.P.  
APPROVED BY: J.P.  
DATE: 10/20/2023  
DRAWING NO.: C-1.1  
2 OF 9 SHEETS

SHEET C-1.1

## Project Site #1:

- Manhole 659 only
- Epoxy lining, frame and cover replacement

## Project Site #2:

- Eight (8) manholes:
  - 2457
  - 133
  - 134
  - 2367
  - 135
  - 136
  - 2459
  - 659
- Polymer concrete manhole insert and grade ring(s) installation, new frame and cover

# Manhole #659



## Scope:

- Epoxy lining, frame and cover replacement

## Considerations:

- County encroachment permit required
  - Work partially occurs in County ROW
  - Traffic plan per County reg's and req's
  - Possible lane closure
- Keep construction activities to MCWD easement or ROW
  - Avoid private property to the South

# Manhole #2457



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- Ex. cover stuck, no photos of interior conditions. Contractor to verify.
- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
  - SSMH near middle of road
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #133



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- Ex. cover stuck, no photos of interior conditions. Contractor to verify.
- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
  - SSMH near middle of road
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #134



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- Ex. cover stuck, no photos of interior conditions. Contractor to verify.
- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
  - SSMH near middle of road
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #2367



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
- Possible tree branch trimming, coordinate with City
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #135



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- Ex. cover stuck, no photos of interior conditions. Contractor to verify.
- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
- Protect ex. curb and sidewalk, replace as needed.
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #136



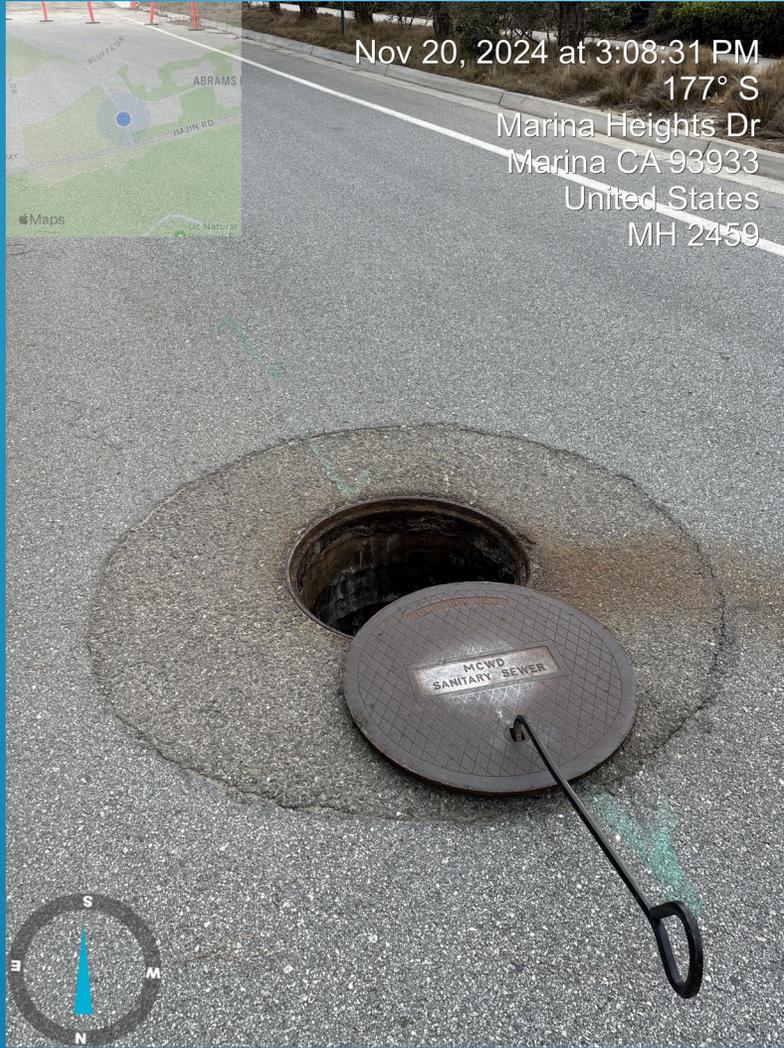
## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- Ex. cover stuck, no photos of interior conditions. Contractor to verify.
- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
- Protect ex. curb and sidewalk, replace as needed.
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #2459



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
- Protect ex. curb and sidewalk, replace as needed.
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# Manhole #652



## Scope:

- Polymer concrete insert, cone, grade ring installation
- Frame and cover replacement

## Considerations:

- City (Marina) encroachment permit required
  - Traffic plan per City reg's and req's
- Protect ex. curb and sidewalk, replace as needed.
- Remove any ex. metal rungs/steps from MH wall prior to insert installation

# OS-2305 Overview



1 CIP OS-2305 - IMPROVEMENT PLAN

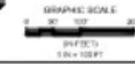
REFERENCE NOTES: (C)

1. LINE ON MANHOLE WITH EPOXY COATING PER SPECIFICATION SECTION 05 90.00 REMOVE AND REPLACE C. MANHOLE RING AND COVER PER SPECIFICATION SECTION 05 11.00. CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO SUBMITTAL AND ORDERING. REFER TO SPECIFICATION SECTION 05 21.00 FOR SERVICE DIMENSION REQUIREMENTS.

MANHOLE REHABILITATION			
MANHOLE ID	LEGACY ID	DIA (IN)	DEPTH (FT)
1361	G446	48	ASPLM 8 8 FT SEE NOTE 3
1362	D437	48	ASPLM 8 8 FT SEE NOTE 3
1363	G445	48	ASPLM 8 8 FT SEE NOTE 3
1364	D436	48	ASPLM 8 8 FT SEE NOTE 3
1365	D444	48	ASPLM 8 8 FT SEE NOTE 3
1366	D439	48	ASPLM 8 8 FT SEE NOTE 3
2203	D490	48	ASPLM 8 8 FT SEE NOTE 3
430	D443	48	ASPLM 8 8 FT SEE NOTE 3
709	G442	48	ASPLM 8 8 FT SEE NOTE 3
709	D481	48	ASPLM 8 8 FT SEE NOTE 3
705	D460	48	ASPLM 8 8 FT SEE NOTE 3
1908	G440	48	ASPLM 8 8 FT SEE NOTE 3

GENERAL NOTES:

1. Aerial imagery is sourced from TSN LAMSAT IMAGING and is provided for reference only.
2. SEWER IMPACT LOCATIONS AND SIZES ARE BASED ON AVAILABLE GIS DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY ALL DIMENSIONS AND SEWER INVERTS PRIOR TO SUBMITTAL AND ORDERING.
3. AVAILABLE EXISTING DATA IS BASED ON DATA PROVIDED BY MARINA COAST WATER DISTRICT. CONTRACTOR TO VERIFY EXISTING TO SUBMITTAL AND ORDERING PER REFERENCE NOTE 1.
4. WORK EXIGENTS WITHIN THE CITY LIMITS OF CITY OF SEASIDE. CONTRACTOR TO PROVIDE ENCROACHMENT PERMIT FROM CITY OF SEASIDE PER SPECIFICATION SECTION 05 11.00 AND RELATED SECTIONS.
5. PROTECT IN PLACE ALL EX. CURB, SIDEWALK, AND OUTLET. REPLACE ANY DAMAGED PORTIONS IN KIND PER CITY OF SEASIDE STANDARDS. REFER TO S-107 C.2.2.
6. SWITCHED SIGNER BY HAS FLOOD PROTECT BELOW. FLOOD BASED ON NEW EPXY HEATED FLOW OPTION OF THE 2018 MARINA COAST WATER DISTRICT SEWER MASTER PLAN. CONTRACTOR TO VERIFY FLOOD AS PART OF SEWER BYPASS PLAN PER SPECIFICATION SECTION 05 21.20.
  - a.1. FOR 12" AND 18" DIA. PIPE
  - a.2. FOR 14" AND 18" DIA. LINE, 1.5M-DPM
7. IF WORK NEARS HIGHWAY, CONTRACTOR TO DO UP HIS SAFETY SIGNAGE, ALL SUBMITTALS AND SHOW AS APPROVED.



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 410 CLAYBURN DRIVE  
 SAN LUIS OBISPO, CA 95060  
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PROJECT:  
 REVIEWER:  
 DATE:  
 DRAWING NO. C-1.2  
 SHEET NO. 3 OF 9 SHEETS

MARINA COAST WATER DISTRICT  
 SANITARY SEWER MANHOLE REHABILITATION  
 CIP OS-2305 SITE PLAN

DATE: 08/20/2024  
 DRAWING NO. C-1.2  
 SHEET NO. 3 OF 9 SHEETS

## Project Description:

### Twelve (12) manholes:

- 1361
- 1362
- 1363
- 1364
- 1365
- 1366
- 2203
- 430
- 705
- 708
- 709
- 1908

- Epoxy lining, new frame, cover, concrete collar

# Manhole #1361/1362



## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #1363



## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #1364

## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining



# Manhole #1365



## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- Keep construction activities within MCWD easement, access roads.
- Possible tree-trimming, Contractor to coordinate with City of Seaside.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #1366



## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- MH is in middle of 1<sup>st</sup> Avenue, traffic control required
  - Traffic plan per City of Seaside req's and regs
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #2203

## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining



# Manhole #430

## Scope:

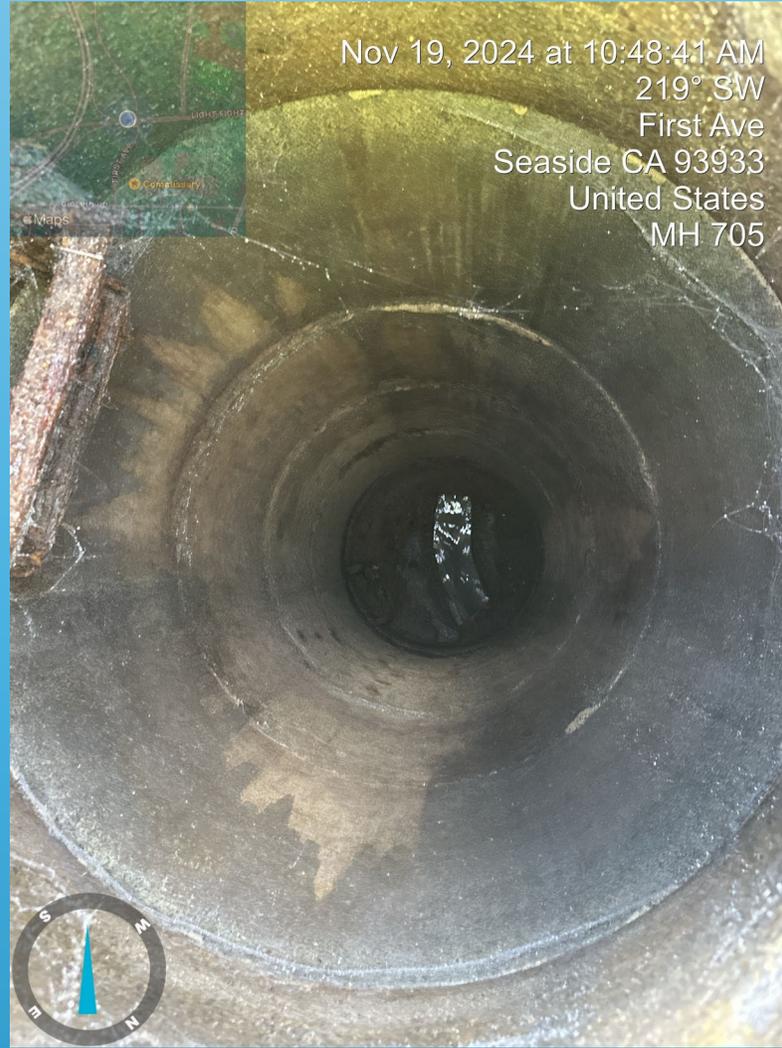
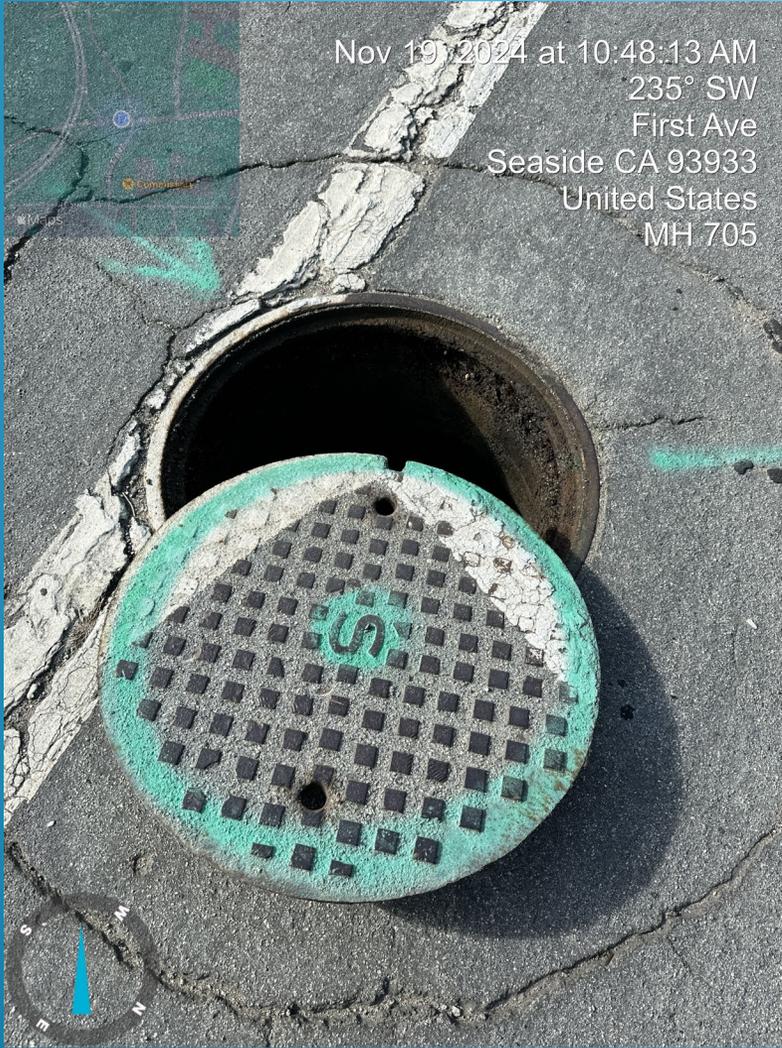
- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining



# Manhole #705



## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
  - Traffic pan with City
- Keep construction activities within MCWD easement, City ROW
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #708



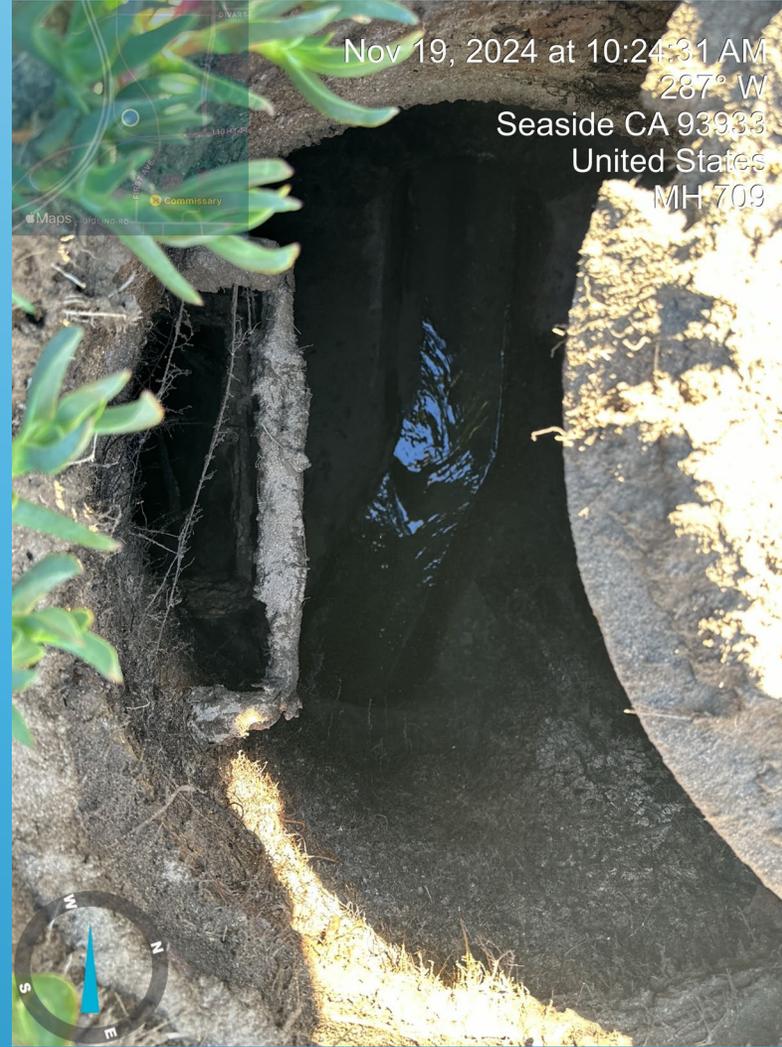
## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
  - Traffic pan with City
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #709



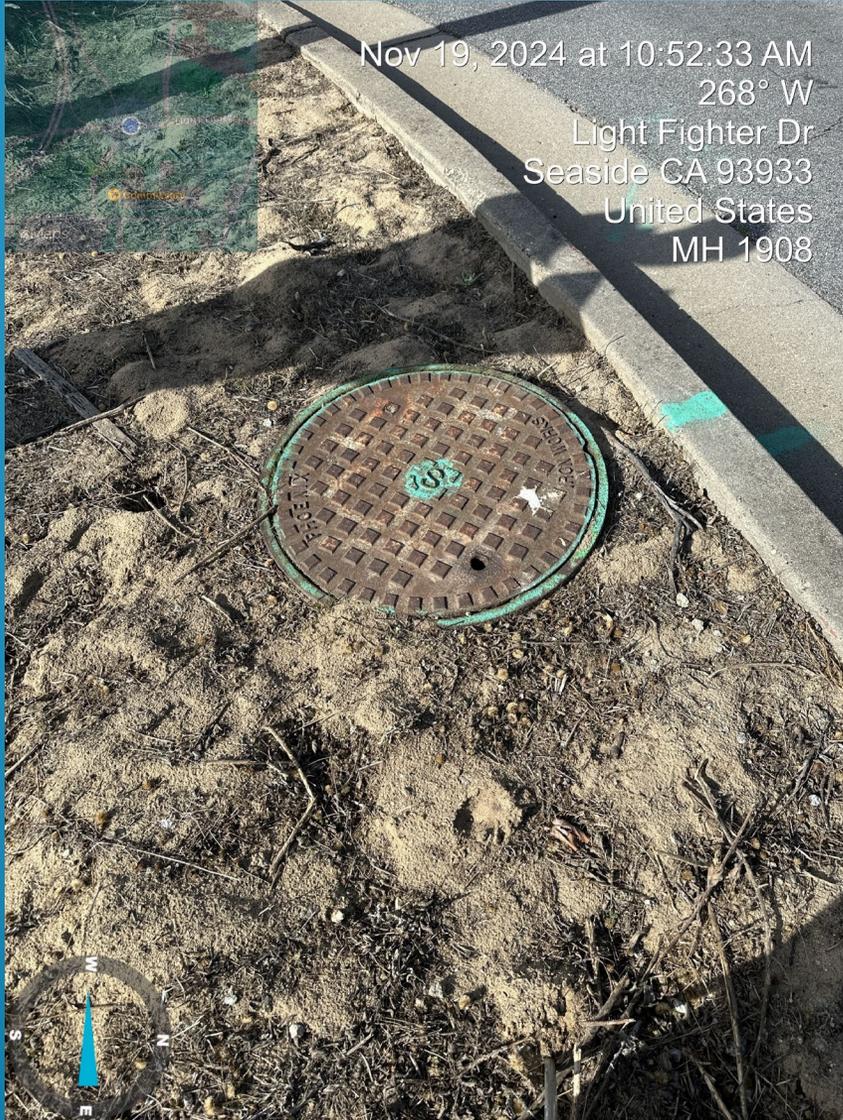
## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
  - Traffic pan with City
- Keep construction activities within MCWD easement, access roads.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining

# Manhole #1908



## Scope:

- Epoxy lining MH walls, base
- Frame, cover, concrete collar replacement

## Considerations:

- City (Seaside) encroachment permit
  - Traffic pan with City
- Protect ex. curb and gutter, replace as needed
- Keep construction activities within MCWD easement, City ROW.
- Remove any ex. metal rungs/steps from MH wall prior to epoxy lining