



PUBLIC WORKS DEPARTMENT
WATER RESOURCES DIVISION

SEWER LATERAL INSPECTION PROGRAM

CCTV INSPECTION GUIDELINES

Objectives

- Review Scope and Intent of the City's SLIP Program
- Review of the City's SLIP Procedure
- Standards for Video Inspection
- Review the Repair and Inspection Process
- Please note this presentation in for informational purposes only and not for Certification or Re-certification



SLIP PROGRAM BACKGROUND

SLIP History

- Developed in 2007 to address failing laterals and increase public awareness of the need to maintain private laterals.
- Ordinance passed to develop a program requiring property owners to inspect their private sewer laterals under certain conditions.
- Sewer Lateral Inspection Program (SLIP) continues to develop and change based on community needs.



Reasons for SLIP Inspections

Commercial

- Commercial properties include condominiums, multi-residential complexes and apartment buildings.
- All properties on 15 year re-inspection frequency
- Goal is to have all inspected by 2025

Residential

- Observing sewer lateral defects during inspection of city mains
- Private sewer lateral spill occurs
- 400 sf or more of habitable living space or adding two or more new plumbing fixtures

Steps for SLIP Process

1. Property owner receives letter asking to inspect lateral
2. Property owner hires plumbing contractor to inspect lateral per City requirements
3. Plumbing contractor submits video via Forward Lateral, calling out defects
4. City reviews video: confirms defects and may add additional
5. Property owner receives letter, stating the lateral is in compliance or needs additional work/repairs
6. If repairs are required, property owner hires plumbing contractor to complete repairs
7. Property owner submits invoice & permits as evidence that all repairs were completed
8. Property owner receives certificate of compliance and SLIP case is closed

SLIP INSPECTION STANDARDS & REQUIREMENTS

City CCTV Standards and Requirements

Inspection Video should:

- Panoramic before entering lateral
- Be clear
- Have Sufficient Light
- Be in color
- Speed less than 20 Ft. Per Minute
- Minimum 5 Seconds Pause at Defects
- **Recommendation:** Start inspection at the City main
- Standards and Requirements found on the SLIP's Website



Inspection Submission

Inspection Video submitted via Forward Lateral

- Complete the “Inspection Form” questions
- Mark observations and code defects
- Once submitted, property owner is emailed status updates
- **Must** include the property owners email address or **will be rejected**
 - if owner doesn’t have email, state in “inspector notes”
- Video must be submitted within **60 days** of inspection (NEW requirement)
- Building permit cases must be submitted via Forward Lateral



Inspection Submission

If you have not used Forward Lateral before:

- Visit www.goForwardLateral.com to see a video tutorial on how to upload videos
- Contact staff at SLIP@SantaBarbaraCA.gov with any other questions
- Or fill out the “Contact” form on Forward Lateral’s website to contact their staff



Forward Lateral Submission

Example Inspection Form & Observations

Reason for inspection: Lateral ID # (optional):

Yes No Is cleanout accessible outside of building?
 Yes No Is there a sewer ejector pump at this property?
 Yes No Does private sewer lateral cross neighboring private property?
 Address of neighboring property, if any:

Yes No Does private sewer lateral connect to municipality sewer in public right of way?
 Yes No Is there more than one structure at this address served by the private sewer lateral?
 Yes No Is there more than one sewer lateral on this property?
 Yes No If multiple sewer laterals exist on this property, will the videos be uploaded in this inspection?
 Yes No Does property have a popper, check valve or another backwater device?
 Yes No Is the popper, check valve or another backwater device working?
 Yes No Does the property require that a check valve or another backwater device is installed?
 Yes No Is the wye connection all one piece and installed intact with the lateral, known as a factory wye?
 Yes No Has property been verified as having no outside drains connected to the sewer system?



Inspector Observation #1 ✖

Time	Distance	Observation Code
<input type="text" value="12:22"/>	<input type="text" value="32"/>	<input type="text" value="Collapse"/>

Inspector Observation #2 ✖

Time	Distance	Observation Code
<input type="text" value="60:50"/>	<input type="text" value="11"/>	<input type="text" value="Select code"/>

Inspection Form & Observations : Roof Drains, Backwater Valves

While on-site, check for illegal connections and if a backwater valve is required (we rely on YOU for field conditions)



Quiz

How often do you need to complete this course?

- A. Every other year
- B. Annually
- C. Only once
- D. Every 5 years

Quiz

How often do you need to complete this course?

- A. Every other year
- B. Annually**
- C. Only once
- D. Every 5 years

Reasons CCTV Video Inspection Rejected

- No panoramic before entering lateral
- Speed: 20 ft. per Minute, and Not Holding at Defect Long Enough
- Missing Footage Counter
- Light Intensity Is Too Low
- Dirty/Smudged Lens (clean and re-inspect if needed)
- Video Camera Not Centered (Camera Needs to be on a Skid)
- Inspection didn't include wye connection
- Property Owner's email address not included in Forward Lateral
- Always Double Check Your Submission!

Potential Issues

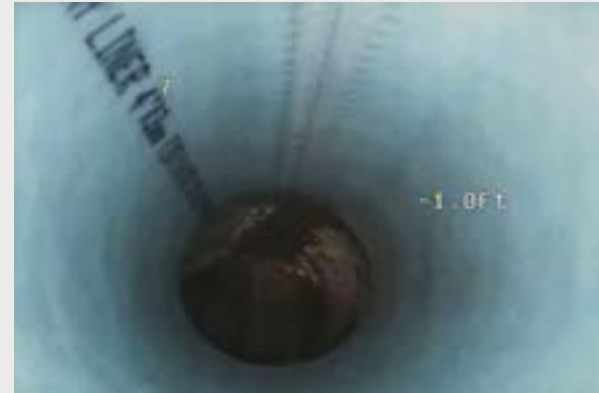
- Shared Laterals: the entire lateral must be inspected
- Septic Tanks: Same inspection requirements as laterals.
- Inactive Laterals: must provide verification of inactive/abandoned laterals in writing
- Real Estate Transactions: Follow SLIP Guidelines and Transparency with Specific Structural Soundness vs. Condition Generalization.

Functional Inspection vs SLIP Inspection



Functional:

- Plumber may say the lateral is “functional”, “working properly”, “conveying sewage”, etc. but that does not mean it is structurally sound, properly maintained or free from defects.



Properly Maintained:

- Private laterals must be maintained continuously and satisfactorily (SBMC 14.44.160)
 - Free from defects (cracks, roots, offset joints, broken pipe)

Inspection Standards

- **City codes defects based on NASSCO Standards**
- **NASSCO:** National Association of Sewer Services Companies
 - We use the **PACP/LACP** defect codes (Pipeline/Lateral Assessment Certification Program)
 - Provides consistent CCTV inspection results
- SLIP Team is **NASSCO** certified
 - Any SLIP Team member will rate a lateral the same



Benefits of PACP/LACP

- Improves quality and consistency of lateral condition assessment
- Measures the sewer lateral condition; Detects changes in pipe condition
- Rating for structural and O&M defects
- Considers total number of pipe defects within pipe, not just depth, age, soil and surface condition
- Widely Accepted Standard to Meet 21st Century Compliance

REPAIR METHODS AND REQUIREMENTS

Lateral Repair Methods

Standard Methods

- Conventional Dig and Replace
- Pipe Bursting

Lateral Lining Method

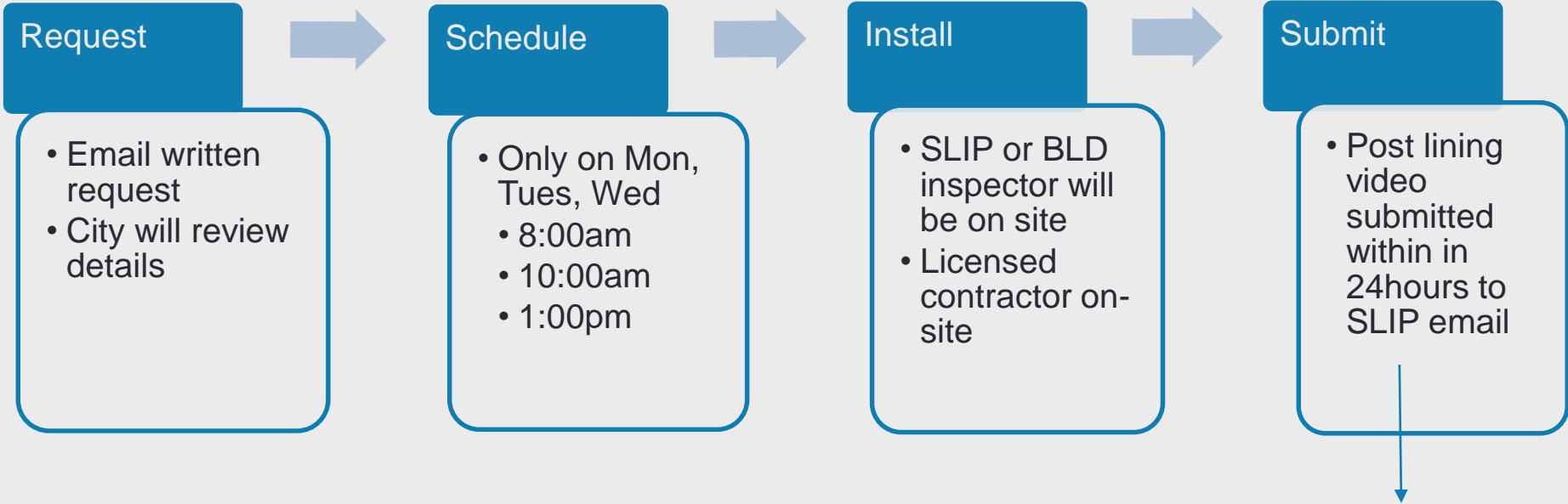
- Cured In Place Pipe (CIPP) Lining Using Inversion Lining Method

Lateral Lining Process

***Fill out contact form on our website or email us at SLIP@SantaBarbaraCA.gov to get approval**

- Requires written pre-approval and pre-lining video
 - New pre-lining video needed if original video is over 60 days old
- Written request must include:
 - Address & lateral ID
 - Contractor
 - Material proposed
 - NEW: Lateral lining inspection fee: \$174 (beginning July 1, 2022)
- Licensed contractor must be on-site
- Post-lining video must be submitted to SLIP email within 24hrs of installation
- Connection Replacement: If liner protrudes into City main, it must be ground down, or the connection replaced.

Lateral Lining Process



SLIP@SantaBarbaraCa.gov

Liners Over-shot Into the Main Sewer Line



Plumbing contractor will be responsible for correcting

Defective Lateral Liner Video (Example)



3 Year Post-Liner Video (Example)



CONNECTION REPAIR OPTIONS

Lateral Connection Replacement Options

- (Tierra) scheduled Lateral connections replacements can **ONLY** be completed by the City's contractor
- Only Tierra can replace/repair/install the wye connection
- The City's current contractor for lateral backfills connection replacements is Tierra Contracting Inc.

Lateral Connection Replacement Options

Option 1 – Plumbing Contractor Connection Replacement

- Plumber responsible for locating, utility marking, traffic control, and excavation.
- City Contractor replaces connection at specified time.
- Plumbing contractor completes all other lateral work and backfill.

Lateral Connection Replacement Options

Option 2 – City Contractor Connection Replacement

- All encompassing project to excavate and replace lateral connection
- Property owner signs agreement and pays fees to PW front counter.
- Negotiated price with Tierra Construction.
- City Staff coordinates project with Tierra Construction on behalf of the property owner
- City and contractor are held to the same standards as everyone else

Option 3 – City Contractor Trenchless Connection Rehab (Top Hat)

- Trenchless option for connection rehabilitation
- Property owner signs agreement and pays fees to SLIP staff
- City will add the connection rehab to next capital improvement project contract.
- Only for residents connected to sewer main lines that will be rehabilitated on a future project.
- This option must be pre-approved

REPAIR & INSPECTIONS

Quiz

When do you need to obtain a permit?

- A. Only when working in the public-right-of-way
- B. Only installing CIPP
- C. Every case is different
- D. Always

Quiz

When do you need to obtain a permit?

- A. Only when working in the public-right-of-way
- B. Only installing CIPP
- C. Every case is different
- D. Always** * Includes when Installing CIPP

When is a Permit Required

ALWAYS

- Replace/Repair/Install/ Abandon any portion of lateral in the Public Right-of-Way
- Replace/Install/Abandon wye connection at the sewer main in the Public Right-of-Way (or on private property in sewer easement)
- Replace/Repair/Install portion of lateral on private property requires a Building Permit (including liners)



Property Owners are responsible for the entire sewer lateral from the building to the sewer main, including connection fitting (connection or tee)

For the Issuance of a Public Works Permit

For Construction Work/Temporary Traffic Control in the Public Right-of-Way or City Easement the following is required:

- **CONTRACTOR:** An appropriately licensed and insured contractor with a current City of Santa Barbara Business License (per SBMC).
- **SCOPE OF WORK:** For the proposed sewer construction work per City Standards (trenching, trenchless, sidewalk replacement etc.).
- **TEMPORARY TRAFFIC CONTROL:** The contractor can use either the Manual Uniform on Temporary Traffic Control, Section 6H, or propose a Temporary Traffic Control Plan (usually Downtown area).

Scheduling Sewer Taps and Cancellation

- **SCHEDULE:** Tuesdays, Wednesdays, and Thursdays 8:00 a.m., 10:00 a.m., 12:30 p.m. & 2:30 p.m.
- **Connection Installation:** The installation of the connection must be done by the City contractor and needs to be scheduled with SLIP Project Coordinators.
- **Cancellation of Appointment:** All cancellations must be done at least 24 hrs. prior to scheduled appointment. Violation of this results in a cancellation fee that needs to be handled with PW front counter, prior to being rescheduled on sewer taps calendar.

Requirements with Sewer Tap Installations

Requirements:

- **Do not enter, disturb, or work on existing City sewer mains**
 - *SBMC 14.44.140*
- Do not break the existing fittings or service address lateral(s)
- Do not remove pipe or fittings even on a lined main.

When to call – ASAP, and always 24hrs prior to appointment

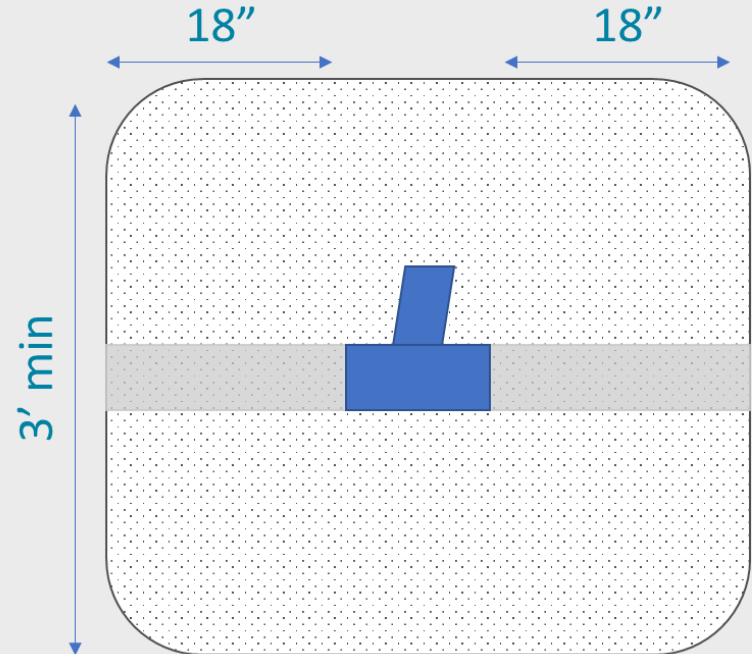
- Atypical configurations
 - *Stacked or “double-wye” situations*
 - *“T” configurations*
 - *Main size different than anticipated*
- Not ready, need to cancel
- Please call about these issues at least 24 hrs in advance.

Requirements for Sewer Tap Installations

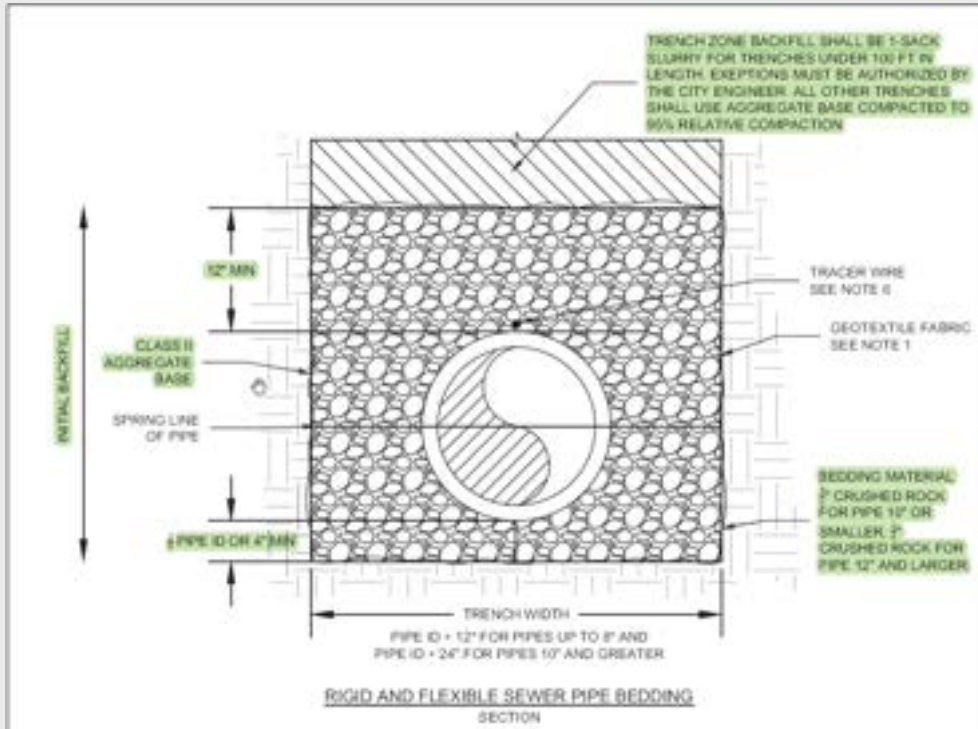
Appointment Ready Status:

- On time
- Proper shoring
- Project site is completely exposed
- Project site is completely excavated
- Appropriate traffic control

If PW inspector finds that any one of these is incomplete, they will cancel



Sanitary Sewer Standard Details Updated in 2020



Bedding Material:

- Sand no longer acceptable
- Standard is to use ½" rock with 12" of base on top finished off with a 1 sack slurry. (Detail S-SP1)

This applies to sewer mains & laterals. (Detail S-SL1 note 10)

Requirements for Sewer Tap Installations



NON SKID Steel Plates

5-7.8.1 General - Green Book Legal Responsibilities

- The Contractor shall provide, install, and maintain steel plate covers as necessary to protect from accidental entry into openings, trenches, and excavations.
- Surfaces exposed to pedestrian or vehicular traffic shall be non-skid.

Temporary Traffic Control- “Tow Away, No Parking” Sign

- **Tow Away, No Parking Signs** will be given to the contractor by the City of Santa Barbara with each Public Works Permit.
- Fill out sign completely (incl permit #)
- **POSTING** must be done at least 72 hours prior to beginning construction work and **must be completely filled out**
- AFTER POSTING:
- **Call Parking Enforcement:**
 - **(805) 897-3727**
- Parking Signs need to be checked daily!



TEMPORARY
**TOW AWAY
NO PARKING**

DATE: 1/10 - 1/12/2018
TIME: 8 am - 5 pm

TYPE OF PROJECT: Sewer lateral replacement
CONTRACTOR: Company Name, Inc.
CITY CONTACT: 805-564-5388
City of Santa Barbara Public Works Engineering

www.SantaBarbaraCA.gov/Environment/Departments/PW
BY ORDER OF POLICE DEPT. AUTHORITY SECTION 22841 C.V.C.
TO RECOVER IMPOUNDED VEHICLES CALL PARKING DIVISION AT (805) 897-2288

2018

Permit Fees

Permits	FY 2022 Fee Range
Open Trench	\$276 & up
Bore Hole	\$185 & up
Traffic Control	\$165 - \$1,638+
Connection Installation	\$949 - 6" or 8" \$1005 - 10" or greater
Backwater Valve (Building Permit)	\$161
Clean Out (Building Permit)	\$161
Lateral Lining video reviews	\$ 174
Building permit SLIP case video review	\$58

Permit fees are no longer being waived
(since July 1, 2021)

For current adopted fees schedule visit www.Santabarbaraca.gov/waterrates and select "Sewer Rate and Fee Schedule"

WHAT'S NEW

Reminders

- We do not store videos
- All inspection submitted via Forward Lateral
- New Sanitary Sewer Standard Details implemented on July 1, 2020
- Forego inspection for entire lateral and connection replacement requires written notification from property owner & backwater valve requirement
- Lateral Lining needs pre-approval from SLIP Team
- All email communication to/copy: SLIP@SantaBarbaraCA.gov

New Items

- **Inactive Lateral Form:** Plumber verification of inactive/abandoned lateral
- **CCTV inspections** must be submitted within 60 days of inspection date
- **Provide property owner email** in Forward Lateral and note whether or not a backwater valve is needed
- **Lateral lining inspection fee:** \$174 - Beginning July 1, 2022
- **Video Assistance Program** to assist property owners with cost of CCTV inspection (began Summer 2021)
- **New SLIP Admin Guidelines:** Coming soon

SLIP Communications

- Updates provided in Plumbers Newsletter
- Resources: SantaBarbaraCA.gov/SLIP

Please note this presentation is for educational purposes only and is not intended to serve as a certification tool.

To be notified of the next certification course, contact us at
SLIP@SantaBarbaraCA.gov