Sanitary Sewer Cross Bore Inspection Process

• **Startup**
  – Review/approve contract
  – Prepare for equipment and personnel needs
  – Acquire mapping
  – Mobilize

• **Field Work**
  – Locate manhole/sewer line
  – Verify access
  – Determine best inspection method
  – Inspect laterals for cross bores
  – Fix cross bores
  – Re-inspect to confirm repair is acceptable
  – Report findings

• **QA/QC – Data Analysis**
  – Review field data
  – QA/QC – request recollection if necessary
  – Prepare final reports
  – Follow-up with gas line client for report approval

Courtesy of Hydromax USA
Contract Negotiation → Contract Review & Approval → Personnel Needs Review → Project Startup Mobilize →

Gas Client & Sewer Utility

Locate MH Depths Locate C/O Depths → Assume MH Depths → Decide Gas Line Depth → Install Gas Line & Mark Gas Line →

SURFACE Locate MH & Sewer Main → Is Lateral Insp. Possible? →

Locate MH & Sewer Main → Locate Cleanout Or House Access To Lateral →

Document / Notify Lack of Access In Final Report →

Access Provided →

Fix Cross Bore →

Gas Cross Bore Found →

Other Utility Cross Bore Found →

Field Work Process

Gas Line Client Review & Approval of Final Report →

Invoice Gas Line Client →

Gas Line Client

Deliver Final Report To Gas Line Client →

Other Utility Cross Bore Found →

Document / Notify in Final Report →

Reconcile Problem →

QA/QC Check for Image Quality, Accuracy, Completeness, GPS Logs, Run Batches/Stats →

Transfer Inspection Data To Office Via FTP →

Office Analysis Process

Collect Lateral Inspection Data

Sewer Main Or C/O Or House

Collect Lateral Inspection Data From Cleanout/House →

Other Utility Cross Bore Found →

Document / Notify Cross Bore Found →

Fix Cross Bore →

Document / Notify Cross Bore Found →

QA/QC Check for Image Quality, Accuracy, Completeness, GPS Logs, Run Batches/Stats →

Transfer Inspection Data To Office Via FTP →

Office Analysis Process

QA/QC Check for Image Quality, Accuracy, Completeness, GPS Logs, Run Batches/Stats →

Transfer Inspection Data To Office Via FTP →

Office Analysis Process

Cross Bore Inspection Process Chart

Courtesy of Hydromax USA
Cross Bore Inspection Process Chart - Startup Processes for Inspection co. and Gas Client

Gas Client & Sewer Utility
- Locate MH Depths
- Locate C/O Depths
- Assume MH Depths
- Pothole @ 400 ft Increments
- Decide Gas Line Depth
- Install Gas Line & Mark Gas Line

Startup Process
- Contract Negotiation
- Contract Review & Approval
- Personnel Needs Review
- Equipment Needs Review
- Provide Mapping & Utility Location Info
- Project Startup Mobilize

Back to complete chart

Courtesy of Hydromax USA
Cross Bore Inspection Process Chart - Field Work Process

Field Work Process

1. SURFACE Locate MH & Sewer Main
   - Access Provided
   - Is Lateral Insp. Possible?
   - Yes: Fix Cross Bore
   - Yes: Collect Lateral Inspection Data From Sewer Main
   - No: Collect Lateral Inspection Data From Cleanout/House
   - Document / Notify Cross Bore Found
   - Other Utility Cross Bore Found

2. Locate MH & Sewer Main
   - Access Provided
   - Collect Lateral Inspection Data From Sewer Main

3. Locate Cleanout Or House Access To Lateral
   - Document / Notify Lack of Access In Final Report

4. Document / Notify Lack of Access In Final Report

5. Sewer Main Or C/O Or House
   - Collect Lateral Inspection Data From Cleanout/House
   - Document / Notify Cross Bore Found
   - Fix Cross Bore

6. Gas Cross Bore Found

7. Back to complete chart

Courtesy of Hydromax USA