CCTV DELIVERABLE POLICY

PUBLIC WORKS DEPARTMENT / ENGINEERING DIVISION
8130 Allison Avenue, La Mesa, CA 91941
Phone: (619) 667-1166 • Fax: (619) 667-1380

Standards for Delivery of CCTV files for Sewer and Storm Drain Data:

The City of La Mesa is currently using the following software programs to maintain & access its Sewer and Storm Drain information:

- ESRI's ArcGIS v.10.3 (GIS layers)
- CarteGraph OMS v.8.0 (Work Orders and Reporting)
- GraniteNET (Video capture and inspections)

It is preferred that any deliverables be in the same format as the above-mentioned programs for efficient data exchange. The sections below describe in detail the process for receiving and delivering data related to CCTV activities. Database samples, templates, and maps can be provided upon request. A sample of the data deliverable should be submitted for final approval.

GIS Layers:

Upon working with and delivering any type of GIS layers to the City, ensure that the unique feature ID is included as part of the attribute table (see feature types and ID field names below).

Dataset	Feature class	ID Field
Sewer Collection:		
	Gravity Main	Pipe ID
	Manhole	Facility ID
Stormwater Collection:		
	Gravity Main	Pilot ID
	Inlet/Outlet	Pilot ID
	Clean Out	Pilot ID
	Cross Gutter	Pilot ID

Databases:

With any CCTV deliverable, a database should be submitted listing the PipeID and relationships to other pertinent information (photos, videos, inspections, observations, etc.). **If using GraniteNET, exported database must be version 3.6.5 or above. If not using Cues products, export database using NASSCO formatting.**

Videos & Photos:

Any video or photo captured should be associated to an existing GIS feature by unique ID. **Video files must be delivered in .mp4 format. File naming convention should inlclue the unique feature ID or node-node.**

Videos:	.mp4
Photos:	.jpg
Inspection Report:	.pdf

Videoing Process

The CCTV shall be done using a proper sewer camera with a rotating head and distance measuring gauge, capable of annotating on the video. Unless the CCTV is of a sewer lateral, no CCTV footage using push camera is allowed.

The video shall have at the beginning of the clip date, the pipe ID, length, D/S MH ID, U/S MH ID, length, the pipe material and the name of the street.

During the CCTV, the video clip shall continue to have pipe ID throughout the footage. The video footage shall be MH to MH and in case of multiple runs, the video clips shall be truncated to each segment.

While videoing coming across defects in the pipe, the camera will be stopped and the operator shall record/annotate the nature and extent of the defect according to NASSCO standards while panning and zooming to the defect.

If a sewer lateral connection is encountered, the camera shall be panned to the lateral and record the connection condition. Details of the connection shall be annotated.

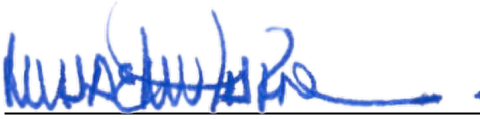
Deliverables:

Electronic files of the CCTV footage complying to these conditions shall be submitted to the City Engineer or his/her designee.

PDF summary report to the CCTV shall be created and submitted to the City. A sample of a summary report is attached.

For City Use Only:

Upon receiving a CCTV deliverable, please submit to the GIS Technician on staff for further processing.

APPROVAL: 

Michael Throne, PE
Director of Public Works/City Engineer

CUES, Inc.
36[illegible] Rio Vi[illegible]nue
O[illegible]ndo, Fl[illegible]2805
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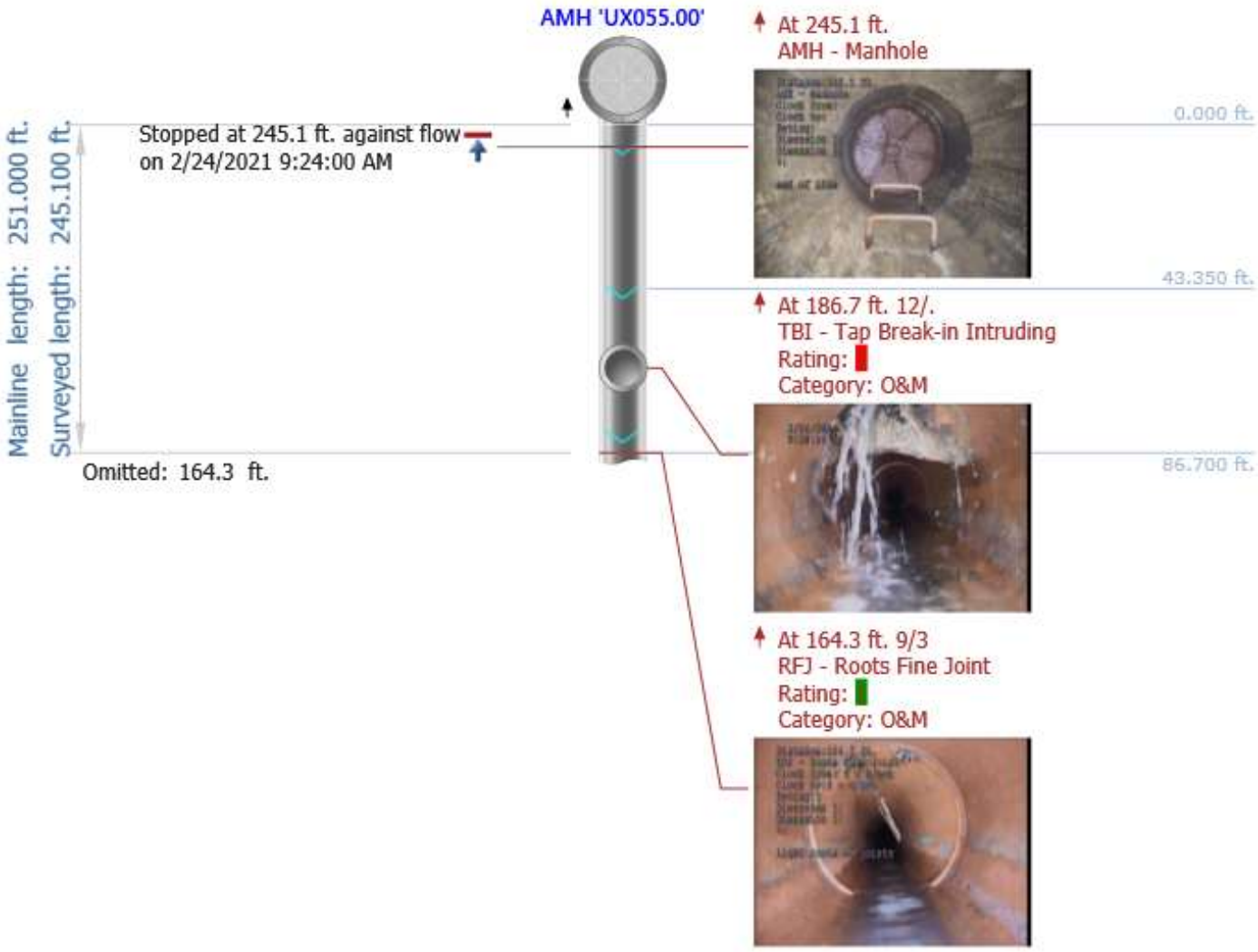
F[illegible]x: 407-[illegible]-1569

Main Inspections Pipe Run with Images

Project name:	Mainline ID:	City:	Street:
Phase 6	**PUX055.00**	**City**	**Pearson St**
Start date/time:	Direction:	Weather:	Location code:
2/24/2021 9:05 AM	**U**	**1**	
Shape:	Material:	Height:	Width:
C	**VCP**	**6 in.**	



Project name:	Mainline ID:	Start date/time:	Direction:
Phase 6	**PUX055.00**	**2/24/2021 9:05 AM**	**U**

Weather:

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