



Project-information

Project name: Franklin, MA	Contract number: ARC005-4	Contact: Sean Mitchell	Date: 09/19/2014
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Client	Arcadis U.S. Inc.
Contact:	Sean Mitchell
Position:	Water Resources Engineer
Road	200 Harvard Mills Square, Suite 430
Town	Wakefield, MA 01880
County	Middlesex County
Telephone:	(781) 213-4933
Fax:	
Mobile:	(774) 573-3431
E-Mail:	

Site	
Contact:	
Position:	
Road	
Town	Franklin, MA
County	
Telephone:	
Fax:	
Mobile:	
E-Mail:	

Contractor	National Water Main Cleaning Co.
Contact:	Dennis Sullivan
Position:	Vice President
Road	25 Marshall Street
Town	Canton, MA 02021
County	Norfolk County
Telephone:	(781) 828-0863
Fax:	(781) 828-2473
Mobile:	
E-Mail:	boston@nwmcc.com



Defect Grade Description

Project name:
Franklin, MA

Contract number:
ARC005-4

Contact:
Sean Mitchell

Date:
09/19/2014

1:

Occurrences without damage: for example, laterals, joints etc.

NO DEFECTS WERE DETECTED.

2:

Constructional deficiencies or occurrences with insignificant influence to tightness, hydraulic or static pressure of pipe: f.e. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3:

Constructional deficiencies diminishing static, hydraulic and tightness: f.e. open joints, untorched intakes, cracks, minor drainage obstructions such as calcide build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc.

REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.

4:

Constructional damages with nonsufficient static safety, hydraulic or tightness: f.e. axial/radial pipebursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc.

REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.

5:

Pipe is already or will shortly be impermeable: f.e. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc.

REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.



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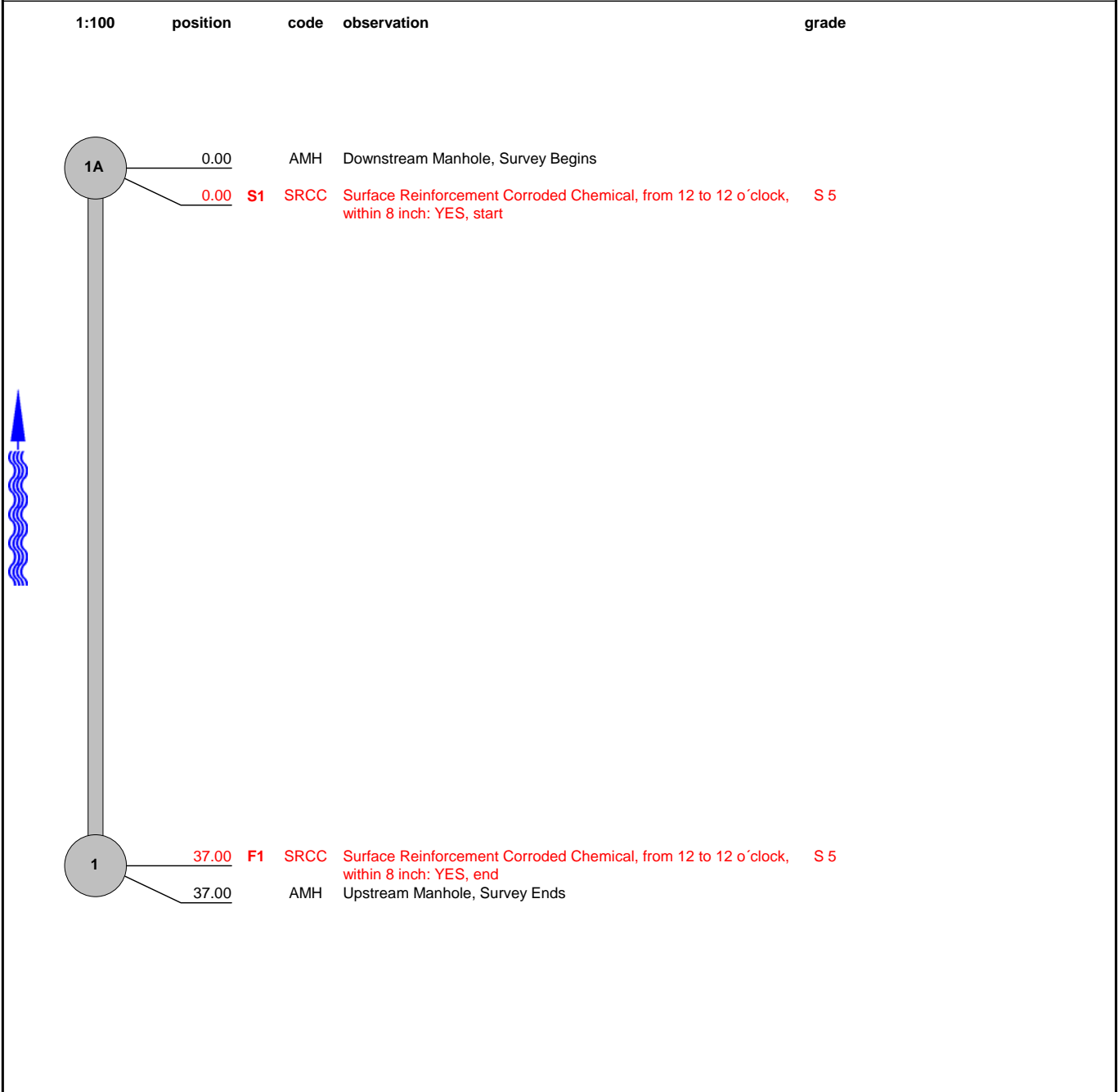
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 1	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 1A
City: FRANKLIN, MA	Year Renewed	End MH: 1
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 37 ft

purpose of Survey:	Shape/Size: C Circular 8/8
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5700	0000	35	0	35	5	0	5



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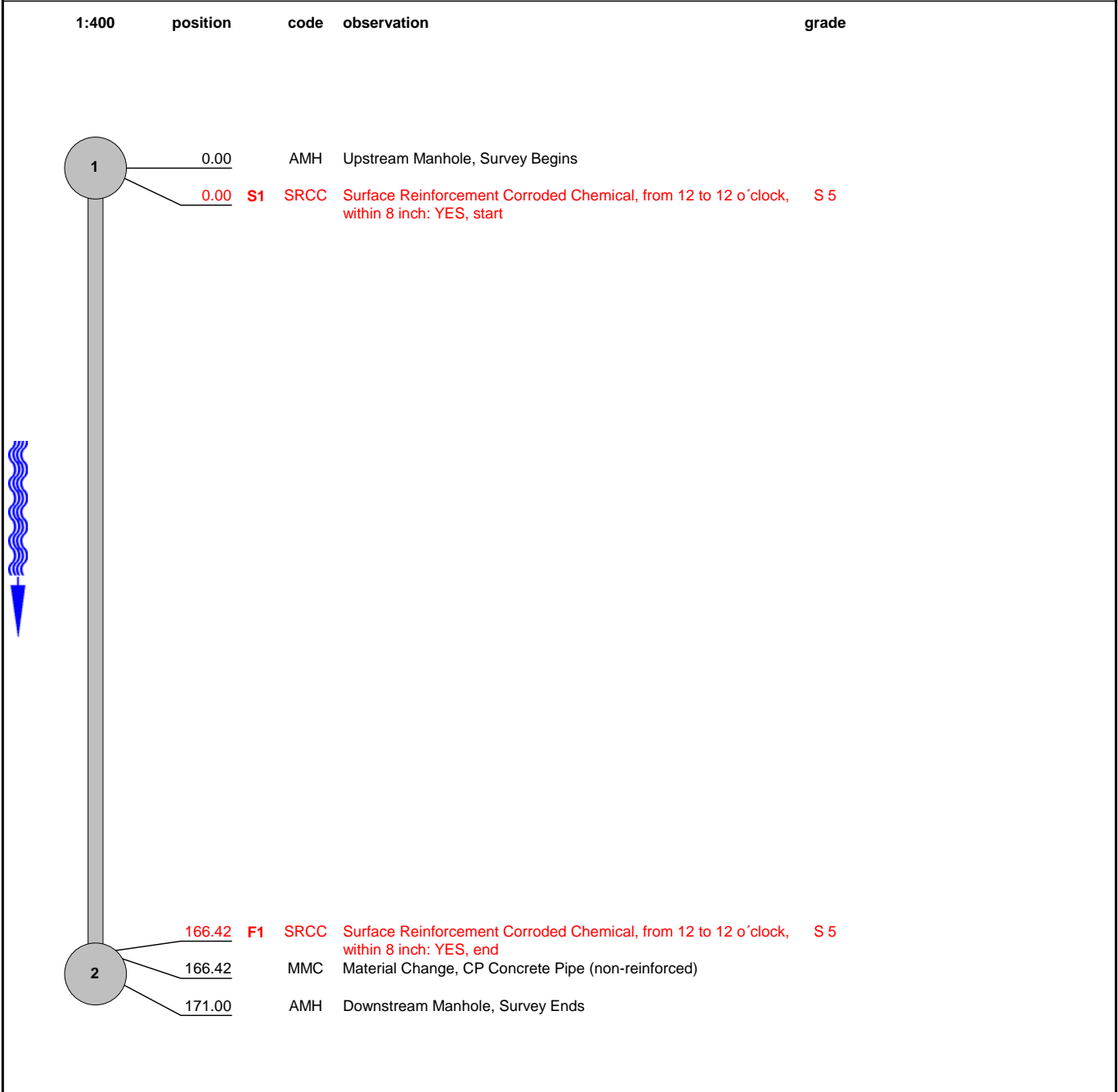
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 2	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 1
City: FRANKLIN, MA	Year Renewed:	End MH: 2
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 171 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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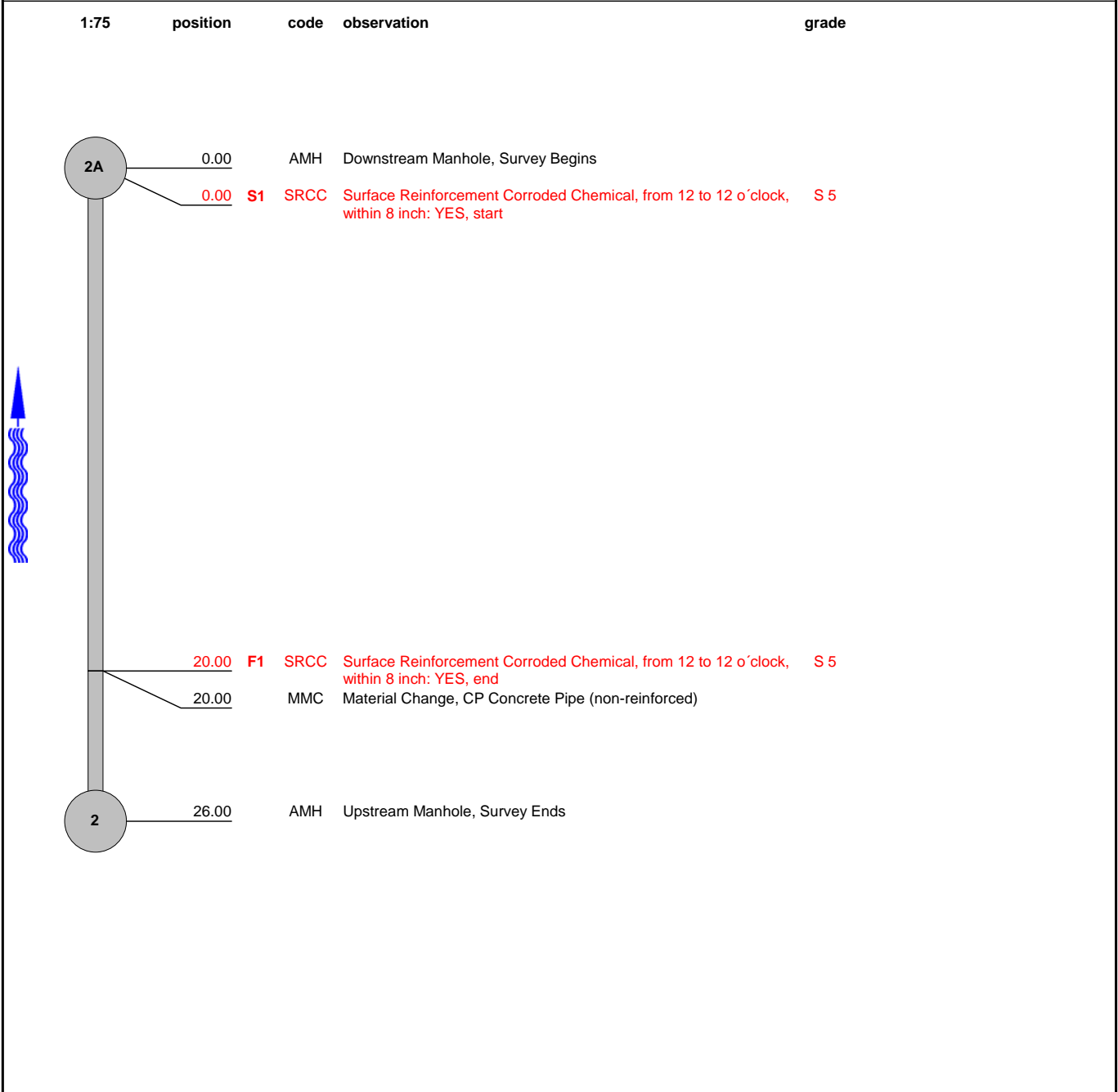
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 3	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 2A
City: FRANKLIN, MA	Year Renewed:	End MH: 2
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 26 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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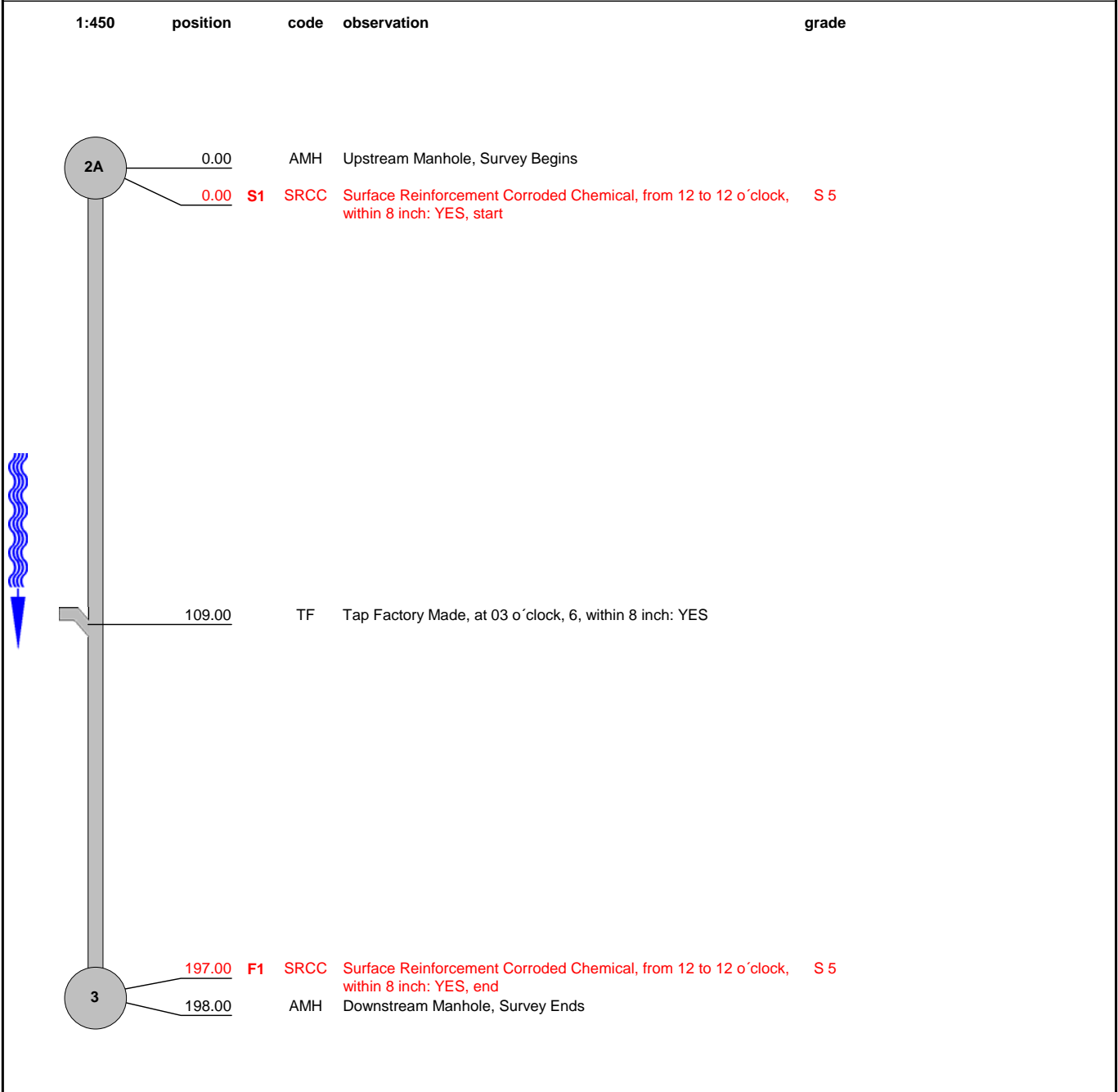
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 4	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 2A
City: FRANKLIN, MA	Year Renewed	End MH: 3
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 198 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5F00	0000	195	0	195	5	0	5



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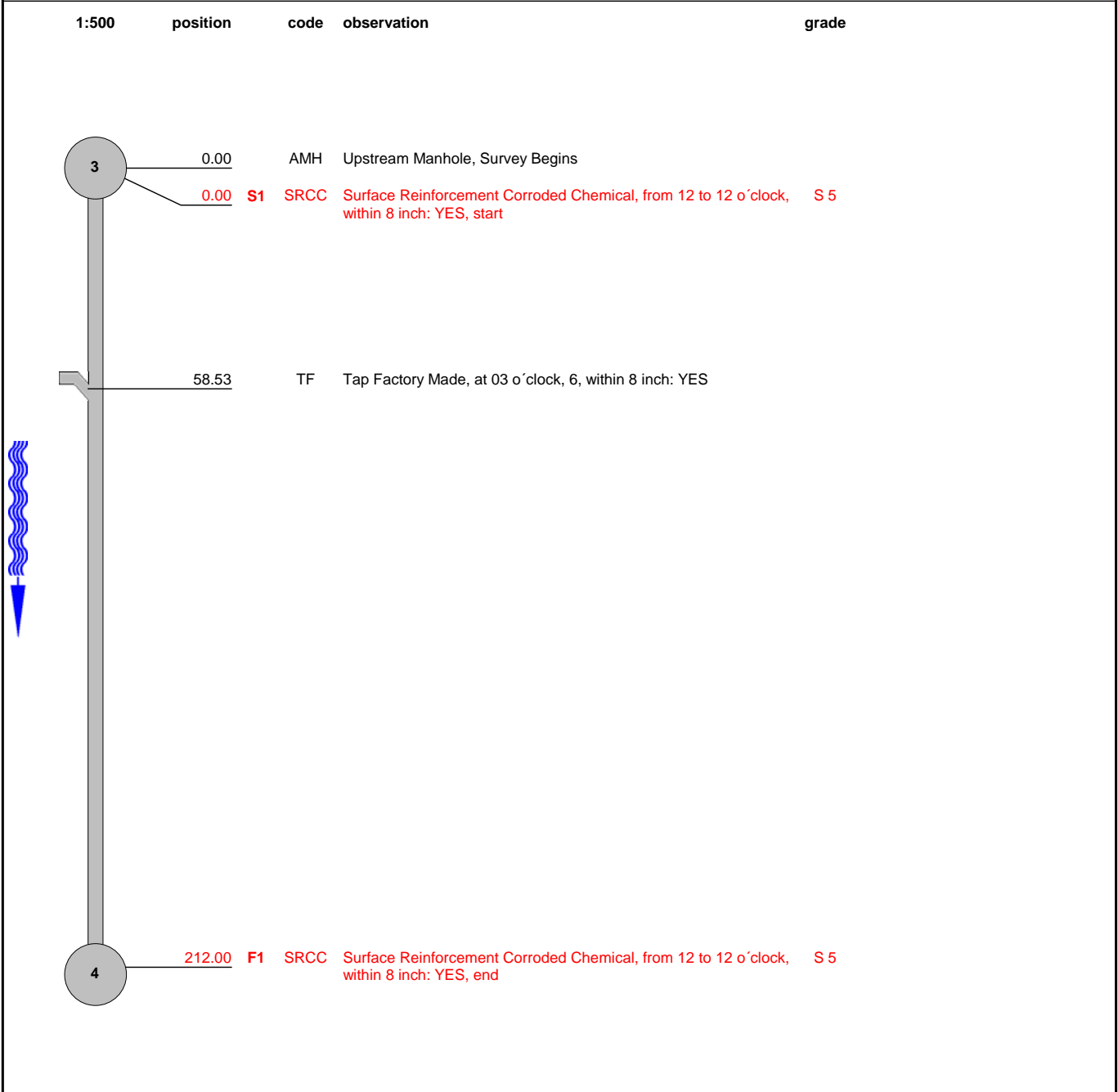
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 5	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 3
City: FRANKLIN, MA	Year Renewed:	End MH: 4
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 214 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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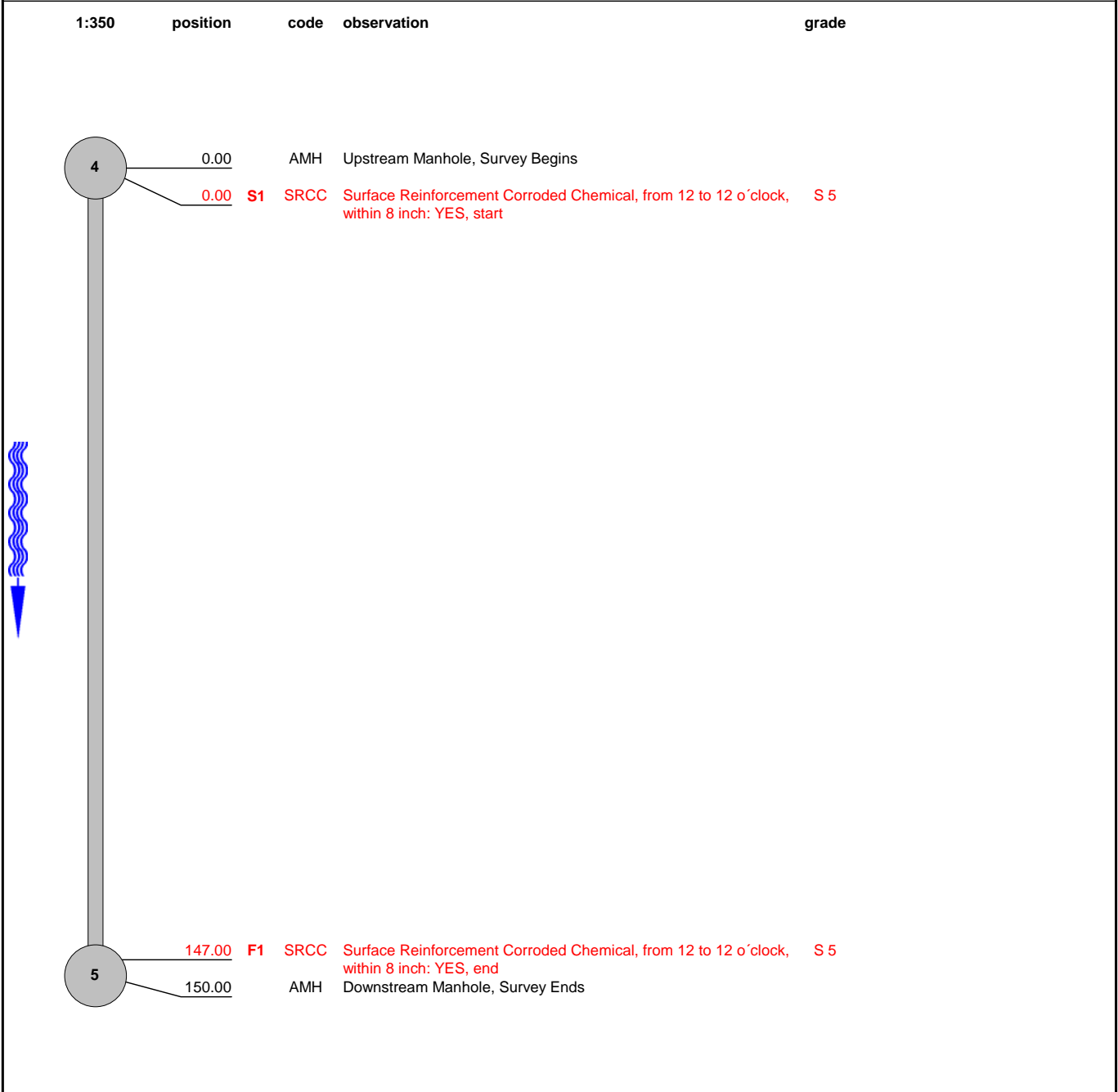
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 6	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 4
City: FRANKLIN, MA	Year Renewed:	End MH: 5
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 150 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5D00	0000	145	0	145	5	0	5



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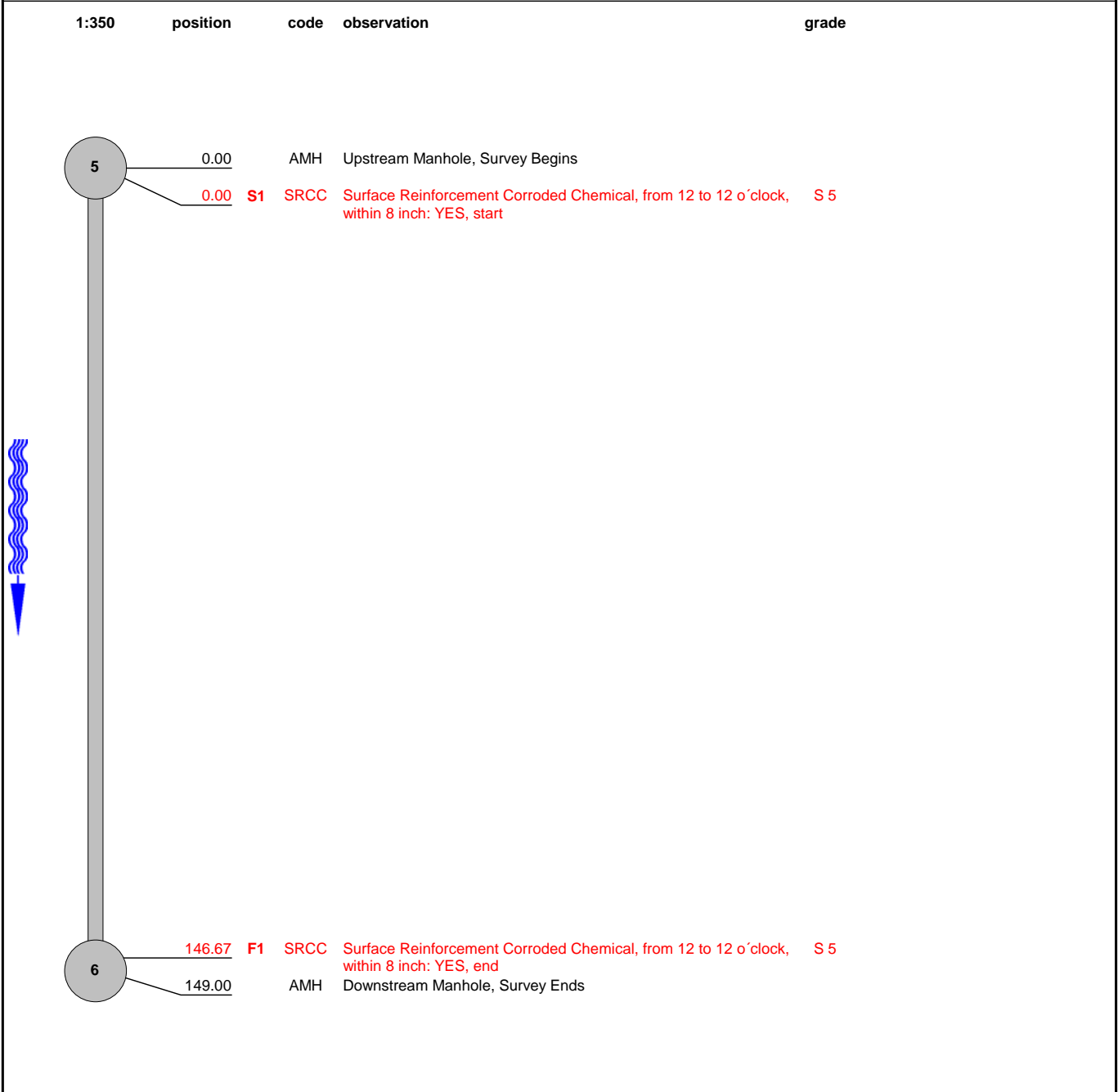
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 7	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: COTTAGE ST	Flow Control:	Start MH: 5
City: FRANKLIN, MA	Year Renewed:	End MH: 6
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 149 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5D00	0000	145	0	145	5	0	5



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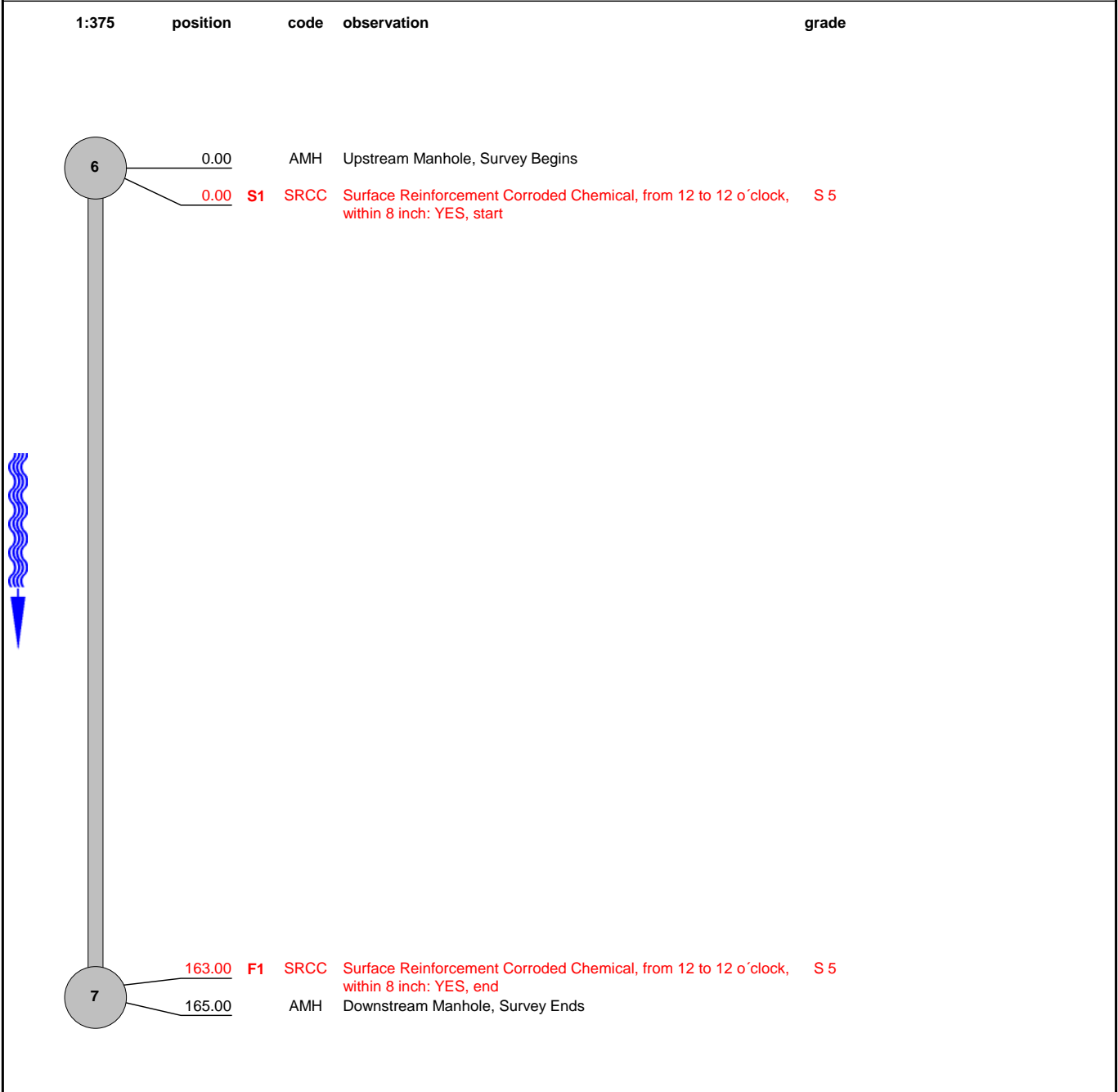
Inspection report

Date: 08/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 8	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: SAXON ST	Flow Control:	Start MH: 6
City: FRANKLIN, MA	Year Renewed	End MH: 7
Location Code:	Tape/Media #: TV50-080414	Total length surveyed: 165 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5E00	0000	165	0	165	5	0	5



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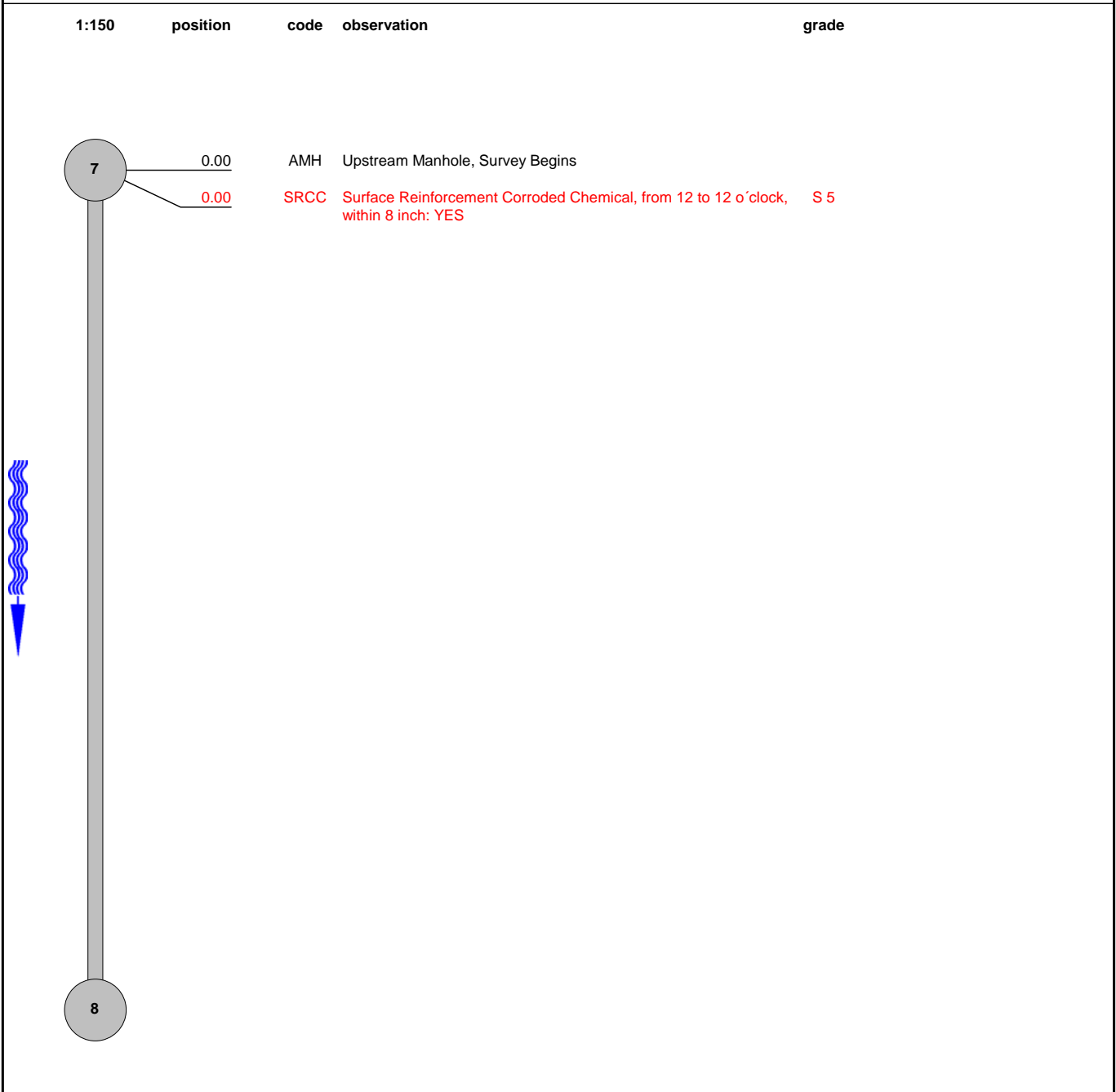
Inspection report

Date: 08/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 9	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: saxon st	Flow Control:	Start MH: 7
City: FRANKLIN,MA	Year Renewed	End MH: 8
Location Code:	Tape/Media #: TV50-8-5-14	Total length surveyed: 67 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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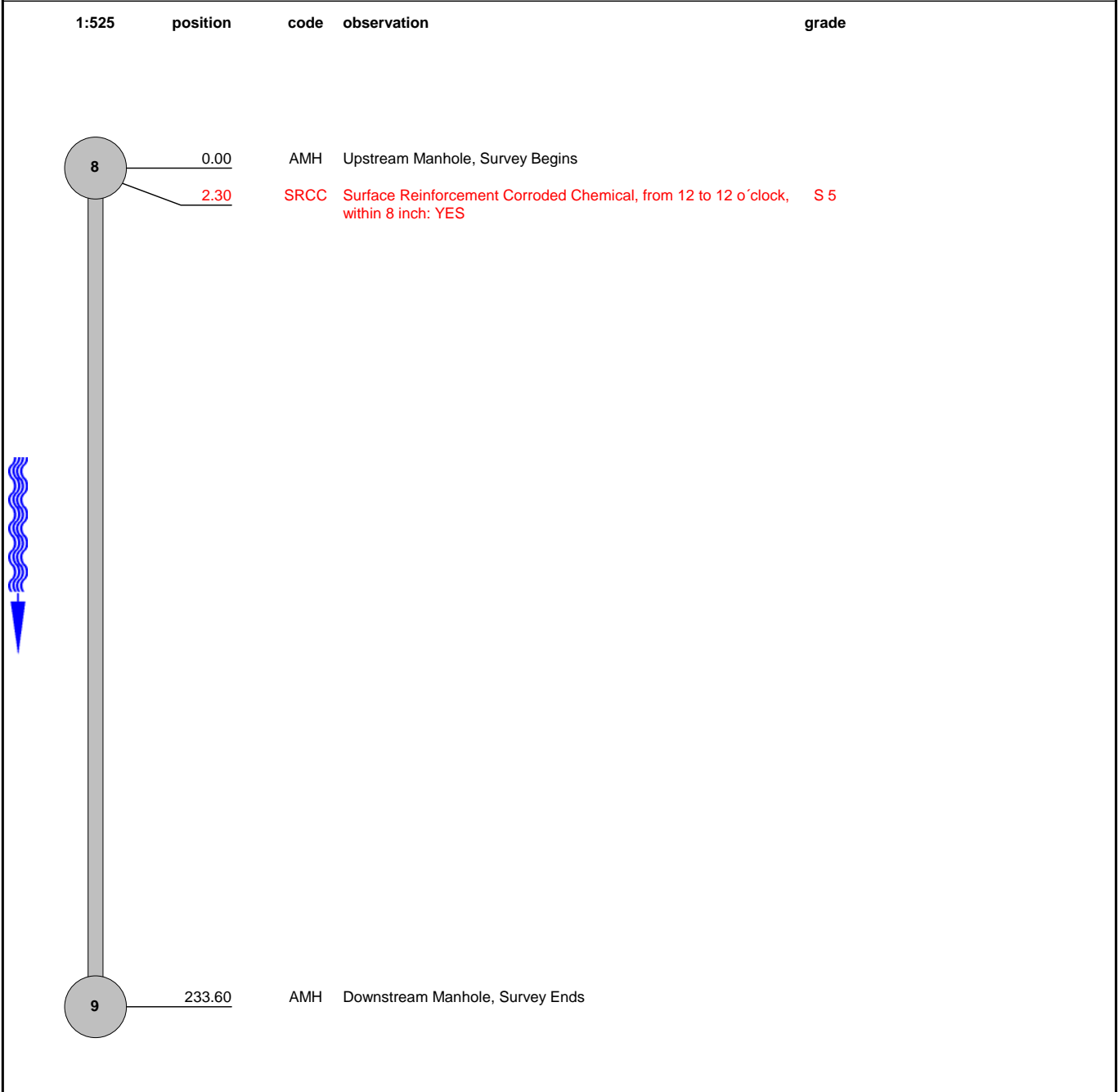
Inspection report

Date: 08/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 10	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: saxon st	Flow Control:	Start MH: 8
City: FRANKLIN,MA	Year Renewed	End MH: 9
Location Code:	Tape/Media #: TV50-8-5-14	Total length surveyed: 233.6 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5100	0000	5	0	5	5	0	5



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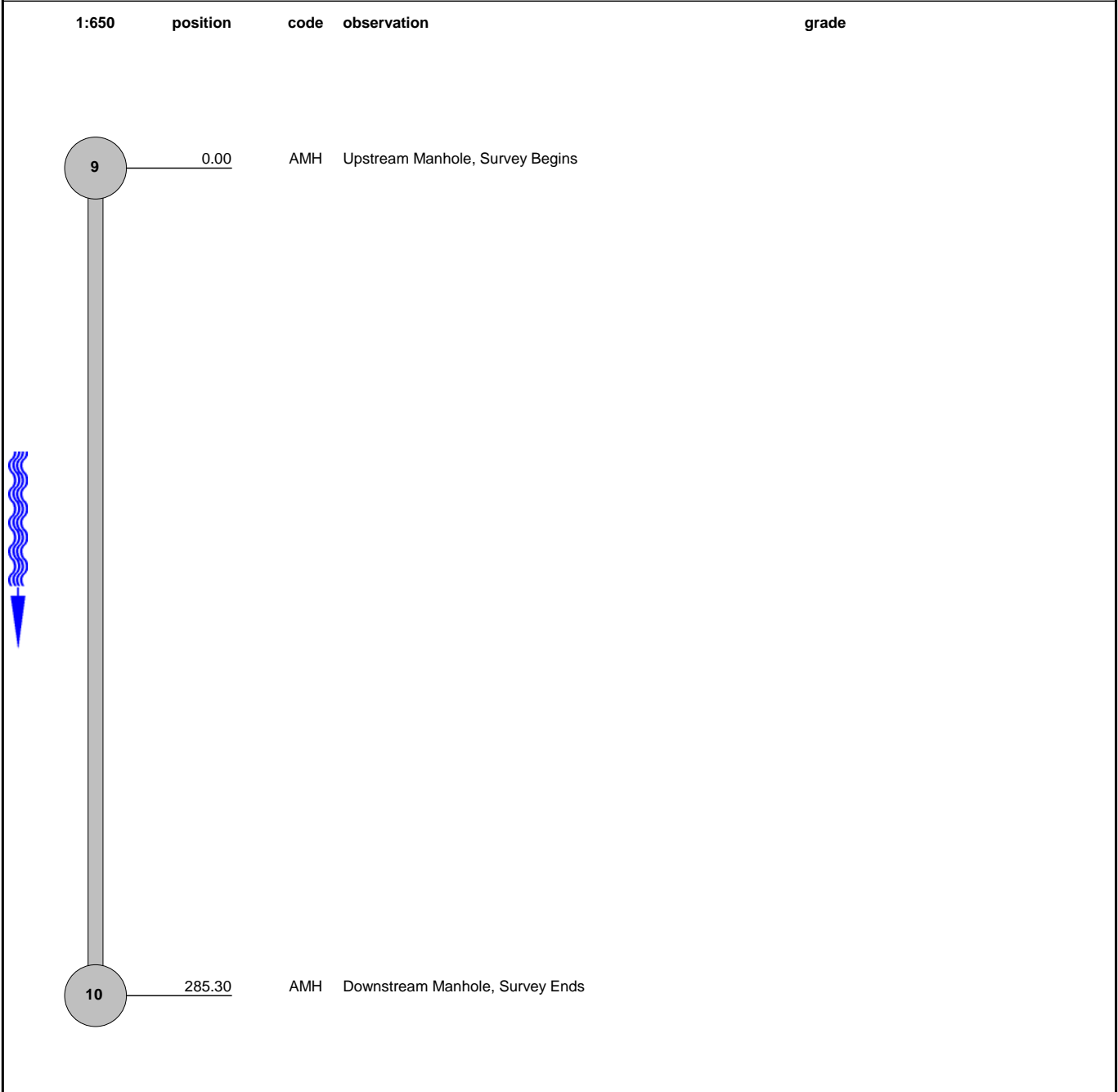
Inspection report

Date: 08/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 11	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: saxon st	Flow Control:	Start MH: 9
City: FRANKLIN,MA	Year Renewed	End MH: 10
Location Code:	Tape/Media #: TV50-8-5-14	Total length surveyed: 285.3 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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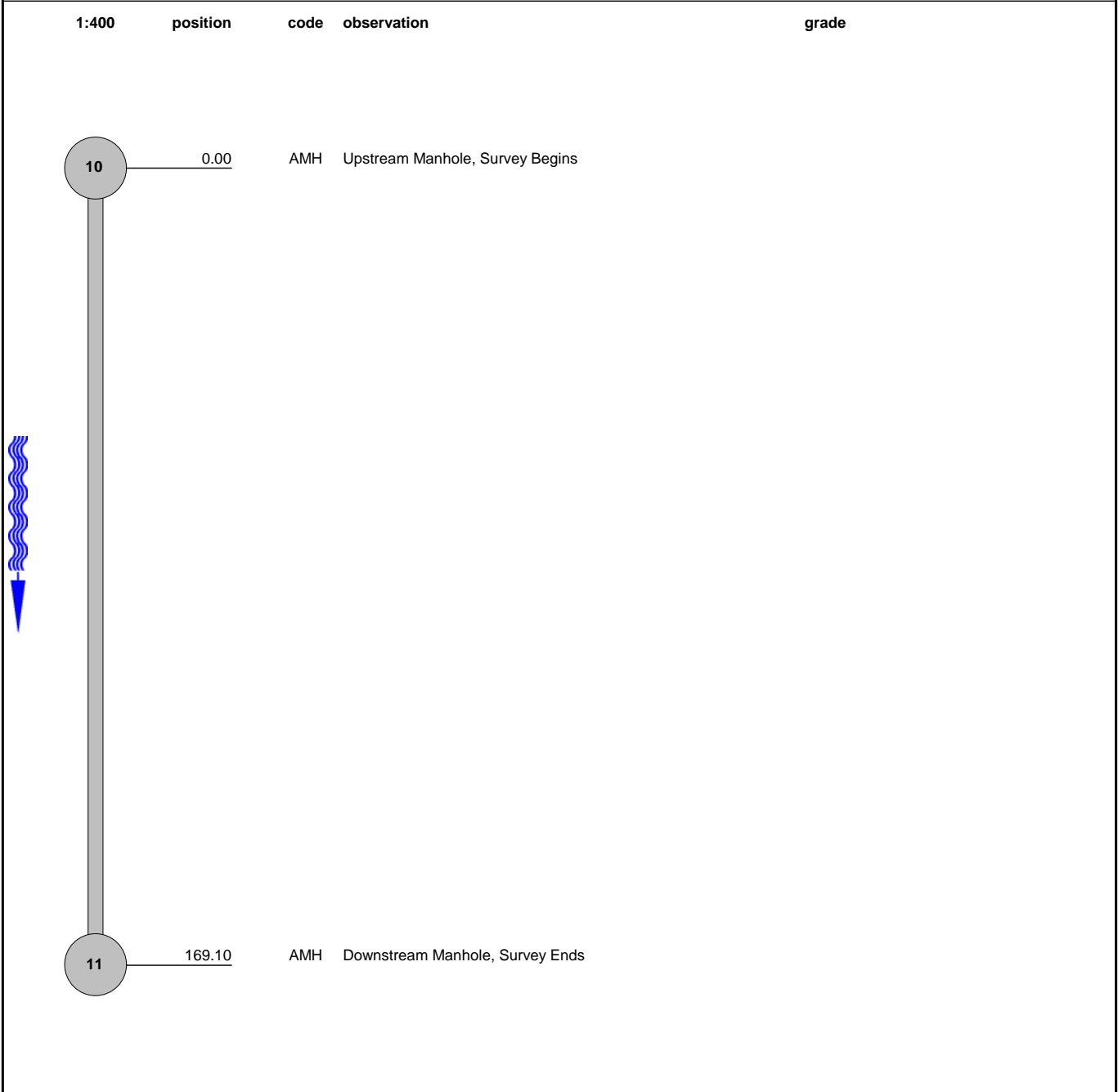
Inspection report

Date: 08/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 12	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: FISHER st	Flow Control:	Start MH: 10
City: FRANKLIN,MA	Year Renewed	End MH: 11
Location Code:	Tape/Media #: TV50-8-5-14	Total length surveyed: 169.1 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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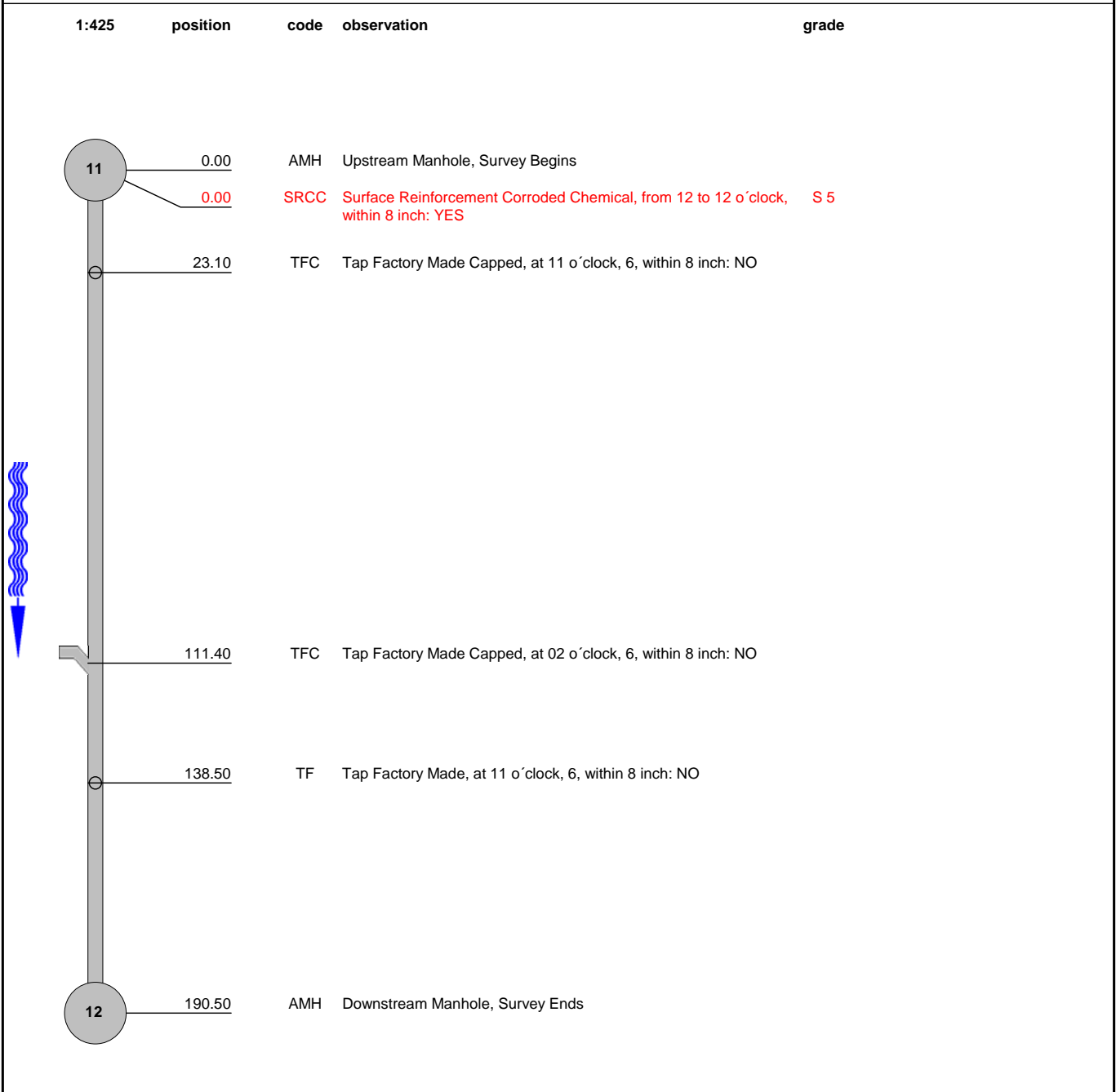
Inspection report

Date: 08/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 13	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: FISHER st	Flow Control:	Start MH: 11
City: FRANKLIN,MA	Year Renewed	End MH: 12
Location Code:	Tape/Media #: TV50-8-5-14	Total length surveyed: 190.5 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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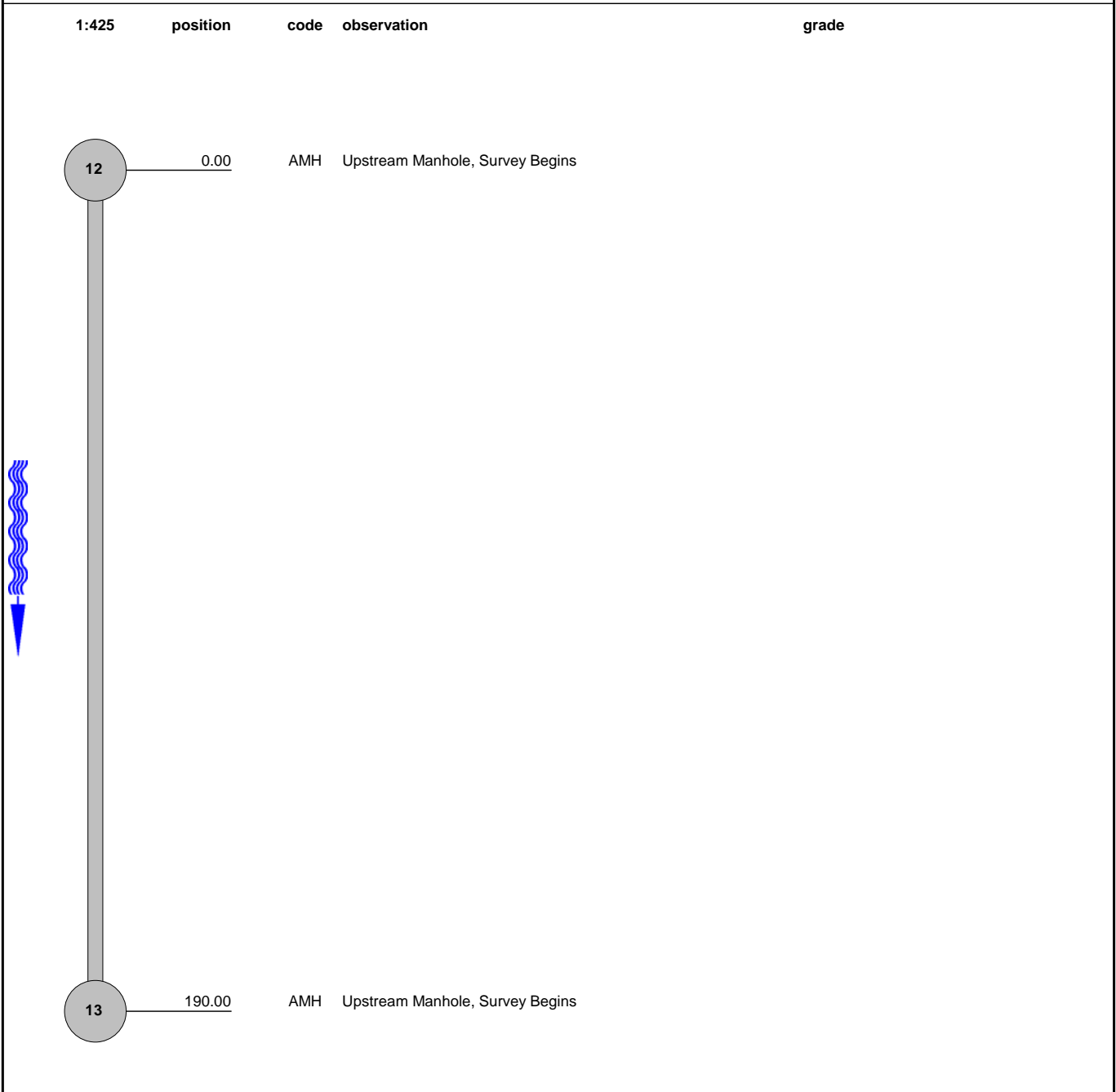
Inspection report

Date: 08/06/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 14	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: FISHER ST	Flow Control:	Start MH: 12
City: FRANKLIN, MA	Year Renewed	End MH: 13
Location Code:	Tape/Media #: TV50-080614	Total length surveyed: 190 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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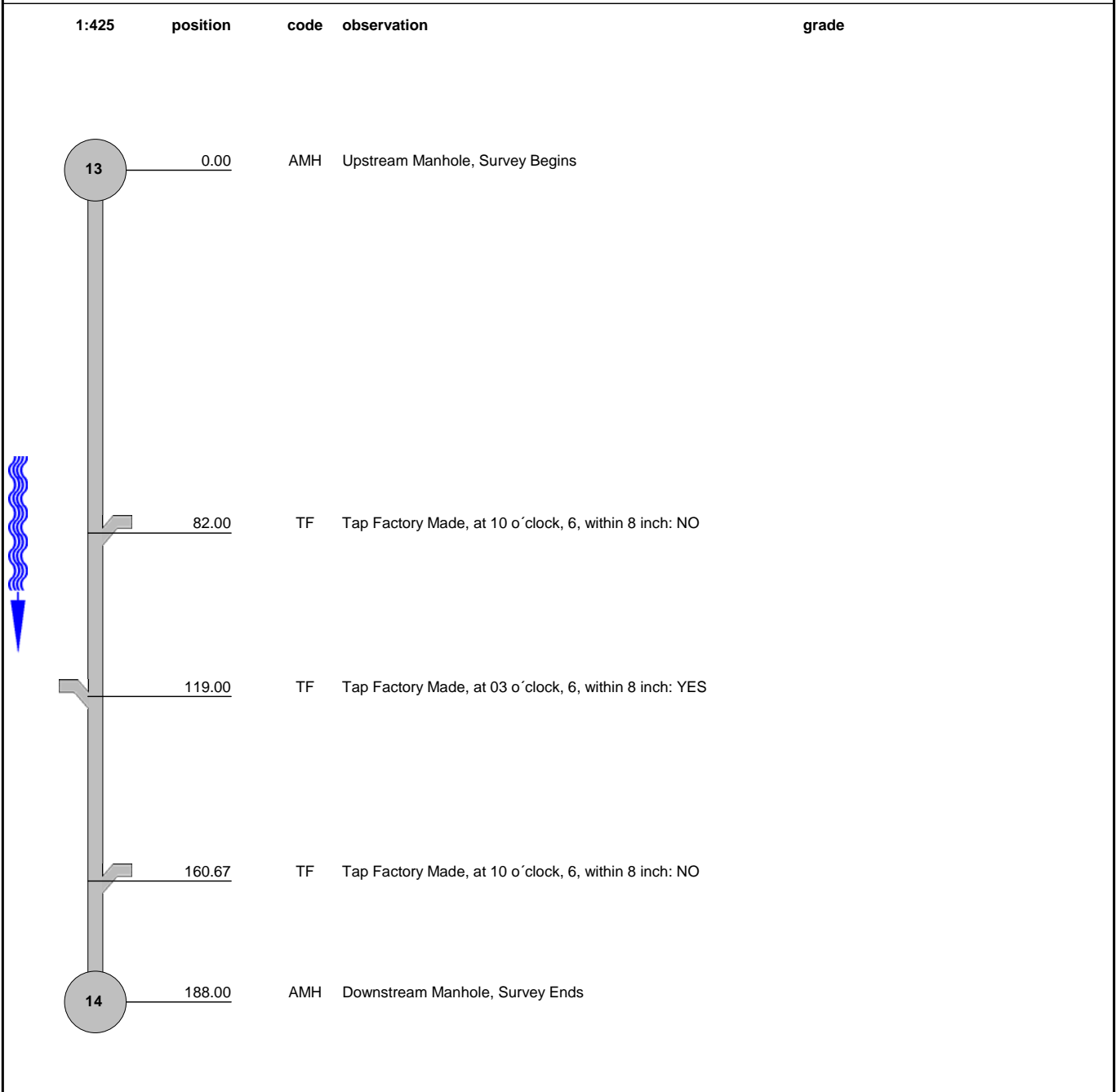
Inspection report

Date: 08/06/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 15	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: FISHER ST	Flow Control:	Start MH: 13
City: FRANKLIN, MA	Year Renewed	End MH: 14
Location Code:	Tape/Media #: TV50-080614	Total length surveyed: 188 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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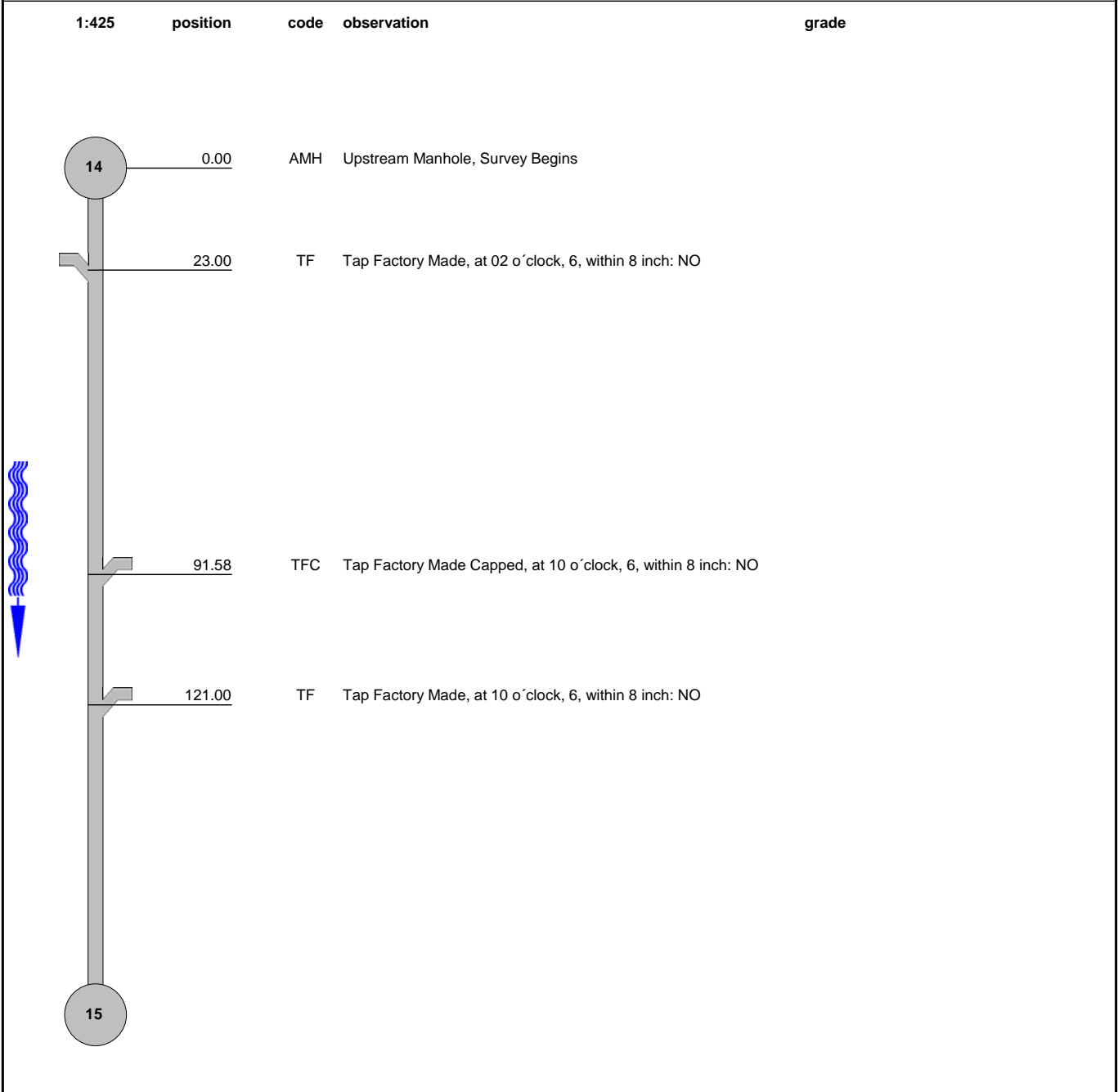
Inspection report

Date: 08/06/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 16	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: FISHER ST	Flow Control:	Start MH: 14
City: FRANKLIN, MA	Year Renewed	End MH: 15
Location Code:	Tape/Media #: TV50-080614	Total length surveyed: 191 ft

purpose of Survey:	Shape/Size: C Circular 16/16
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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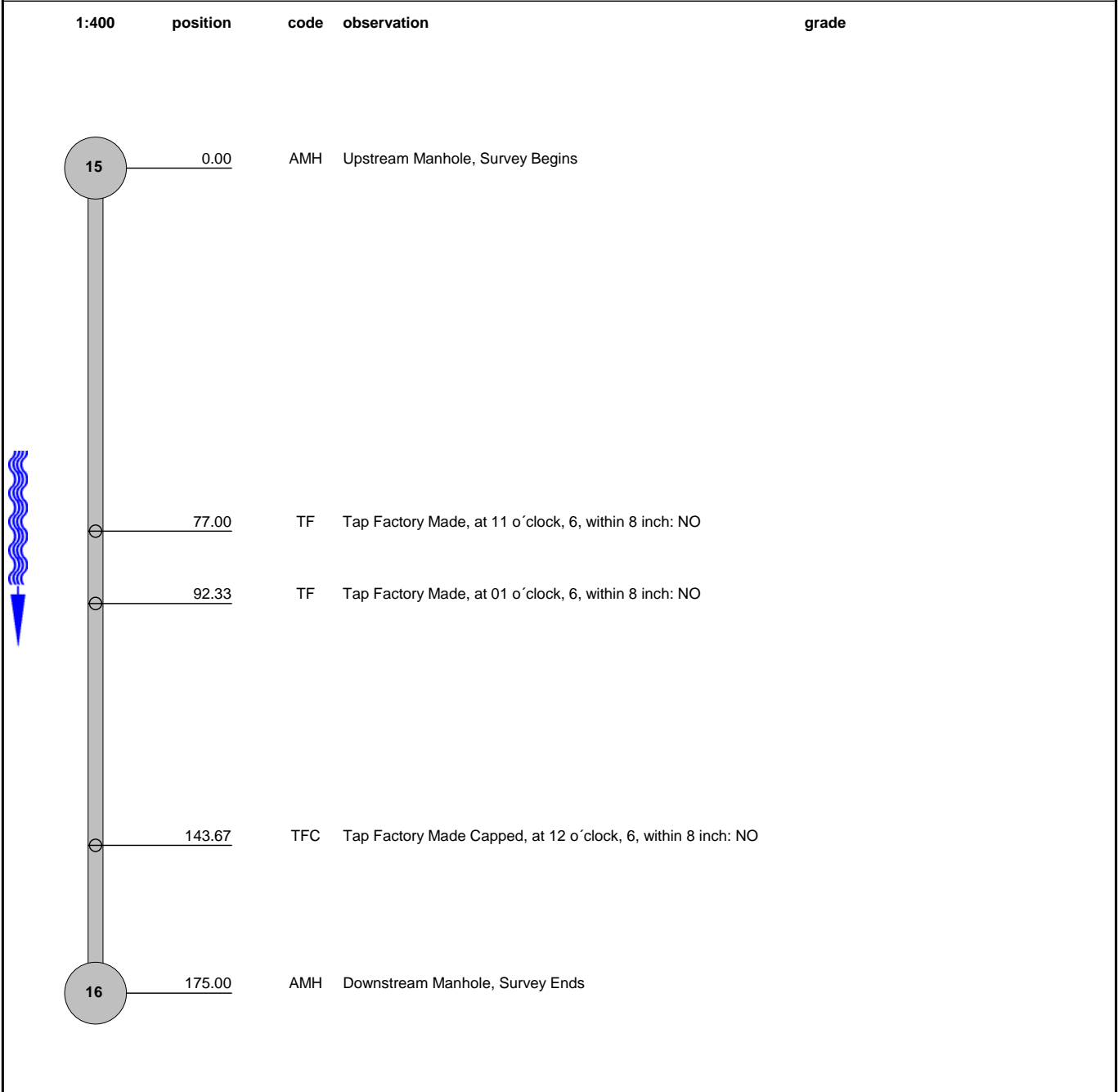
Inspection report

Date: 08/06/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 17	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 15
City: FRANKLIN, MA	Year Renewed	End MH: 16
Location Code:	Tape/Media #: TV50-080614	Total length surveyed: 175 ft

purpose of Survey:	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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Inspection report

Date: 08/06/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B. OLMEDA	section number: 18	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 16
City: FRANKLIN, MA	Year Renewed	End MH: 17
Location Code:	Tape/Media #: TV50-080614	Total length surveyed: 174 ft

purpose of Survey:	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:

1:400	position	code	observation	grade
	0.00	AMH	Upstream Manhole, Survey Begins	
	22.00	TFA	Tap Factory Made Active, at 12 o'clock, 6, within 8 inch: NO	
	48.00	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	89.00	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	90.00	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	142.67	TFA	Tap Factory Made Active, at 12 o'clock, 6, within 8 inch: NO	
	146.67	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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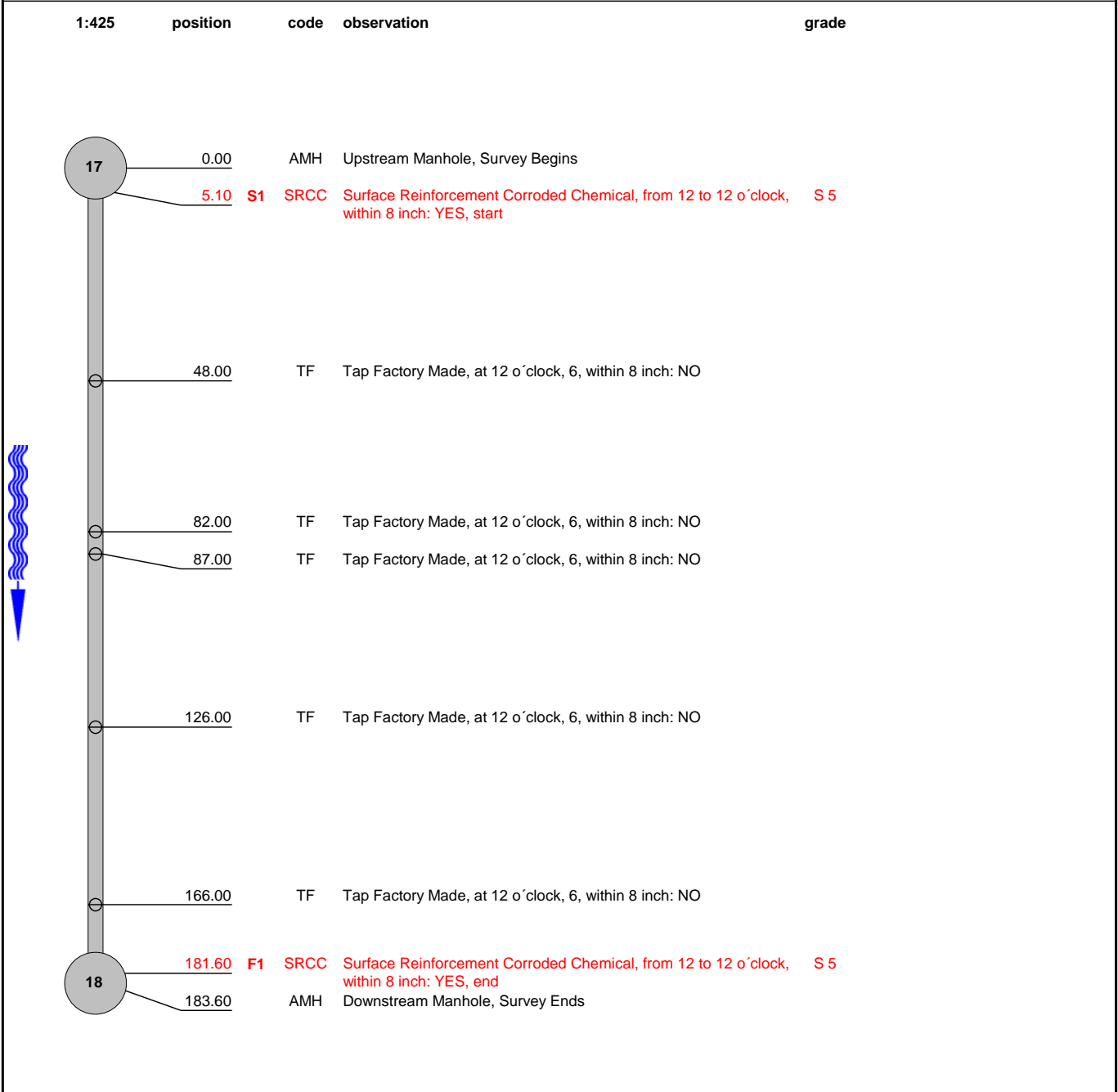
Inspection report

Date: 08/07/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 19	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 17
City: FRANKLIN	Year Renewed:	End MH: 18
Location Code:	Tape/Media #: TV50-8-7-14	Total length surveyed: 183.6 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5F00	0000	175	0	175	5	0	5



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Date: 08/07/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 20	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 18
City: FRANKLIN	Year Renewed:	End MH: 19
Location Code:	Tape/Media #: TV50-8-7-14	Total length surveyed: 185.3 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:

1:425	position	code	observation	grade
	0.00	AMH	Upstream Manhole, Survey Begins	
	0.00	S1	SRCC Surface Reinforcement Corroded Chemical, from 12 to 12 o'clock, within 8 inch: YES, start	S 5
	38.85	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	78.51	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	118.36	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	157.82	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	182.00	F1	SRCC Surface Reinforcement Corroded Chemical, from 12 to 12 o'clock, within 8 inch: YES, end	S 5
	185.30	AMH	Downstream Manhole, Survey Ends	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5F00	0000	180	0	180	5	0	5



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Inspection report

Date: 08/07/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 21	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 19
City: FRANKLIN	Year Renewed:	End MH: 20
Location Code:	Tape/Media #: TV50-8-7-14	Total length surveyed: 181 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:

1:425	position	code	observation	grade
	0.00	AMH	Upstream Manhole, Survey Begins	
	0.00	S1	SRCC Surface Reinforcement Corroded Chemical, from 12 to 12 o'clock, within 8 inch: YES, start	S 5
	26.00	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	78.00	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	129.00	TF	Tap Factory Made, at 12 o'clock, 6, within 8 inch: NO	
	178.60	F1	SRCC Surface Reinforcement Corroded Chemical, from 12 to 12 o'clock, within 8 inch: YES, end	S 5
	181.00	AMH	Downstream Manhole, Survey Ends	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
5F00	0000	180	0	180	5	0	5



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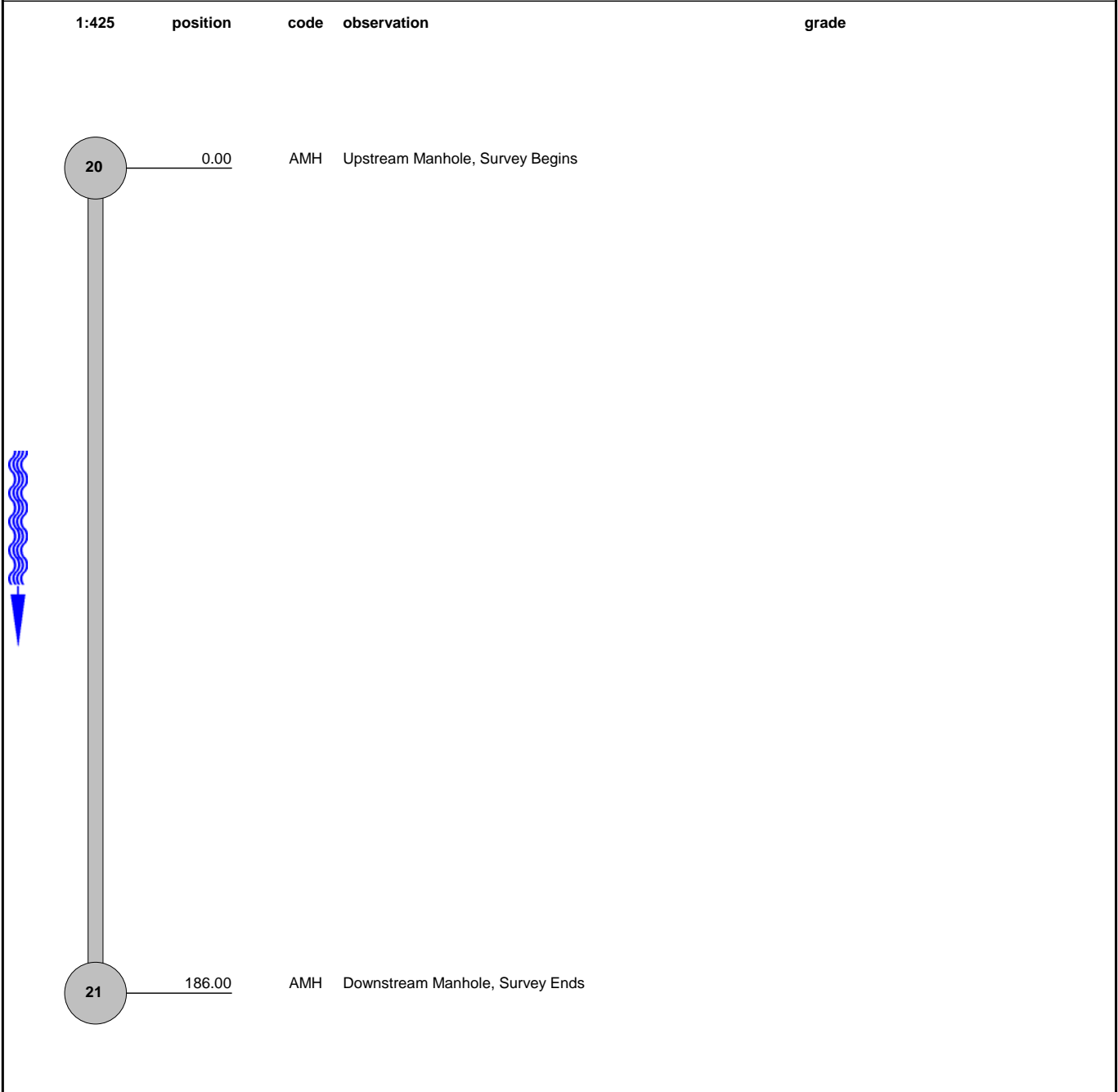
Inspection report

Date: 08/08/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 22	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 20
City: FRANKLIN	Year Renewed:	End MH: 21
Location Code:	Tape/Media #: TV50-8-8-14	Total length surveyed: 186 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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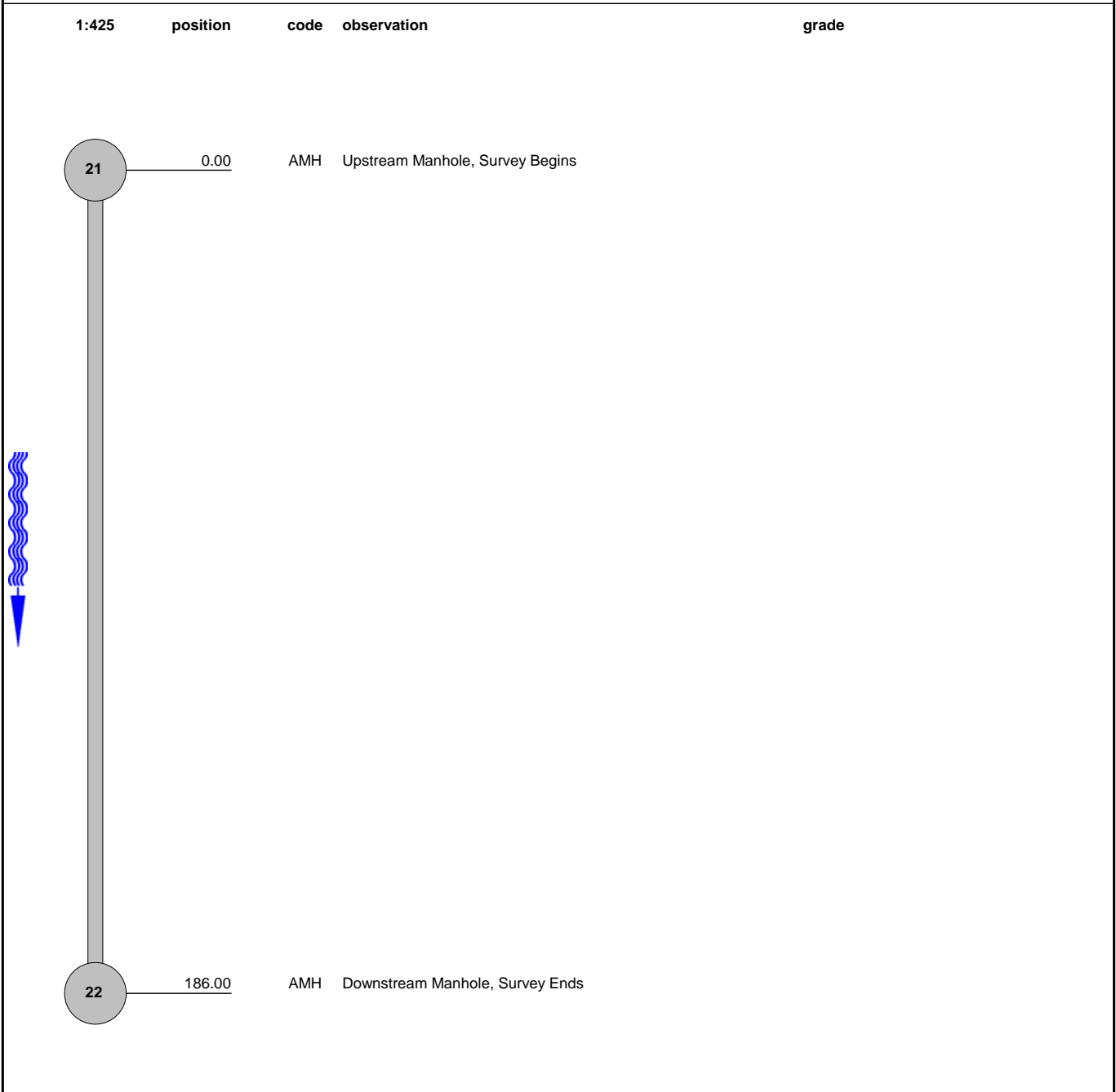
Inspection report

Date: 08/08/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 23	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: HAYWARD ST	Flow Control:	Start MH: 21
City: FRANKLIN	Year Renewed:	End MH: 22
Location Code:	Tape/Media #: TV50-8-8-14	Total length surveyed: 186 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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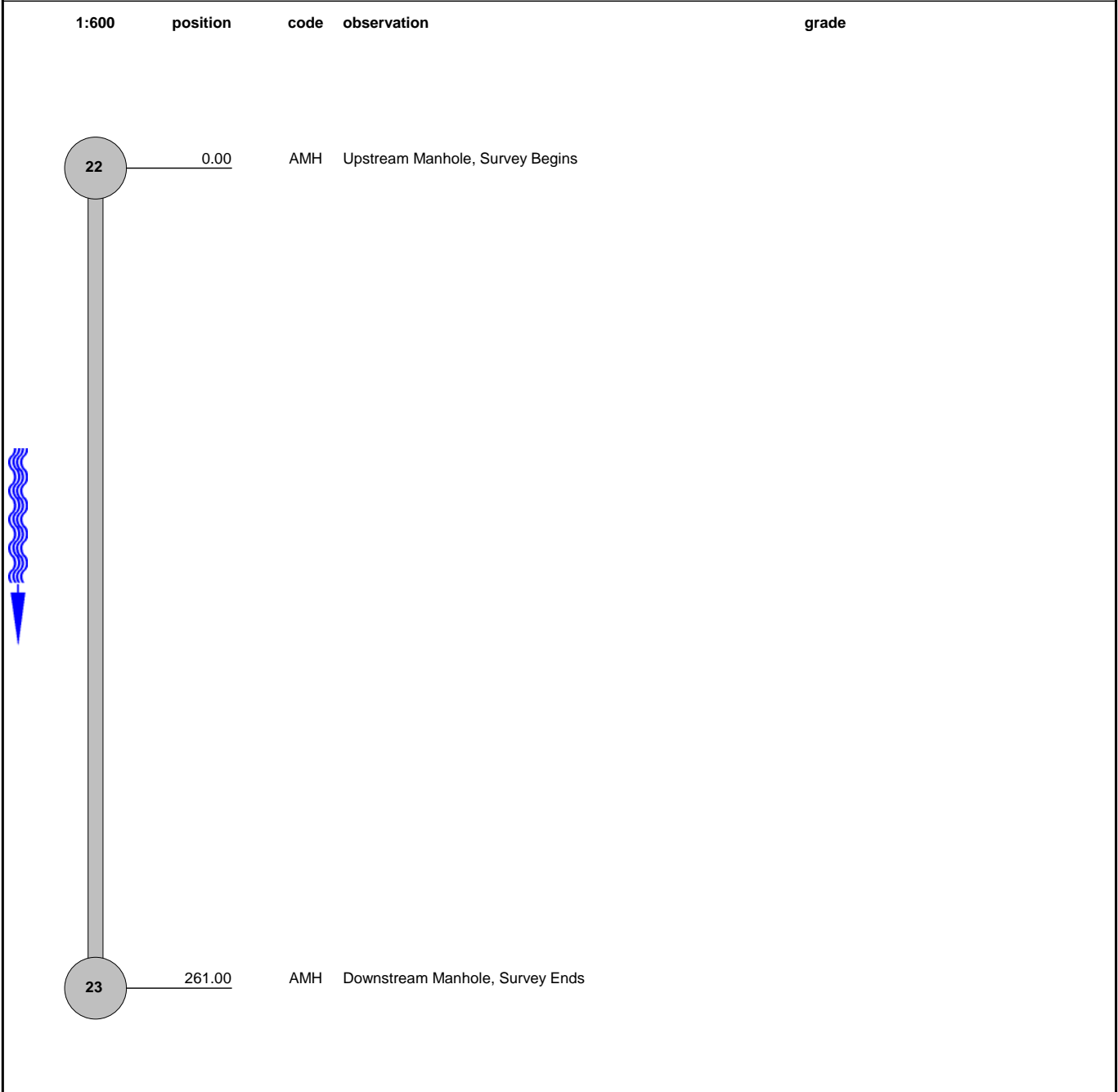
Inspection report

Date: 08/11/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 24	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 22
City: FRANKLIN	Year Renewed	End MH: 23
Location Code:	Tape/Media #: TV50-8-11-14	Total length surveyed: 261 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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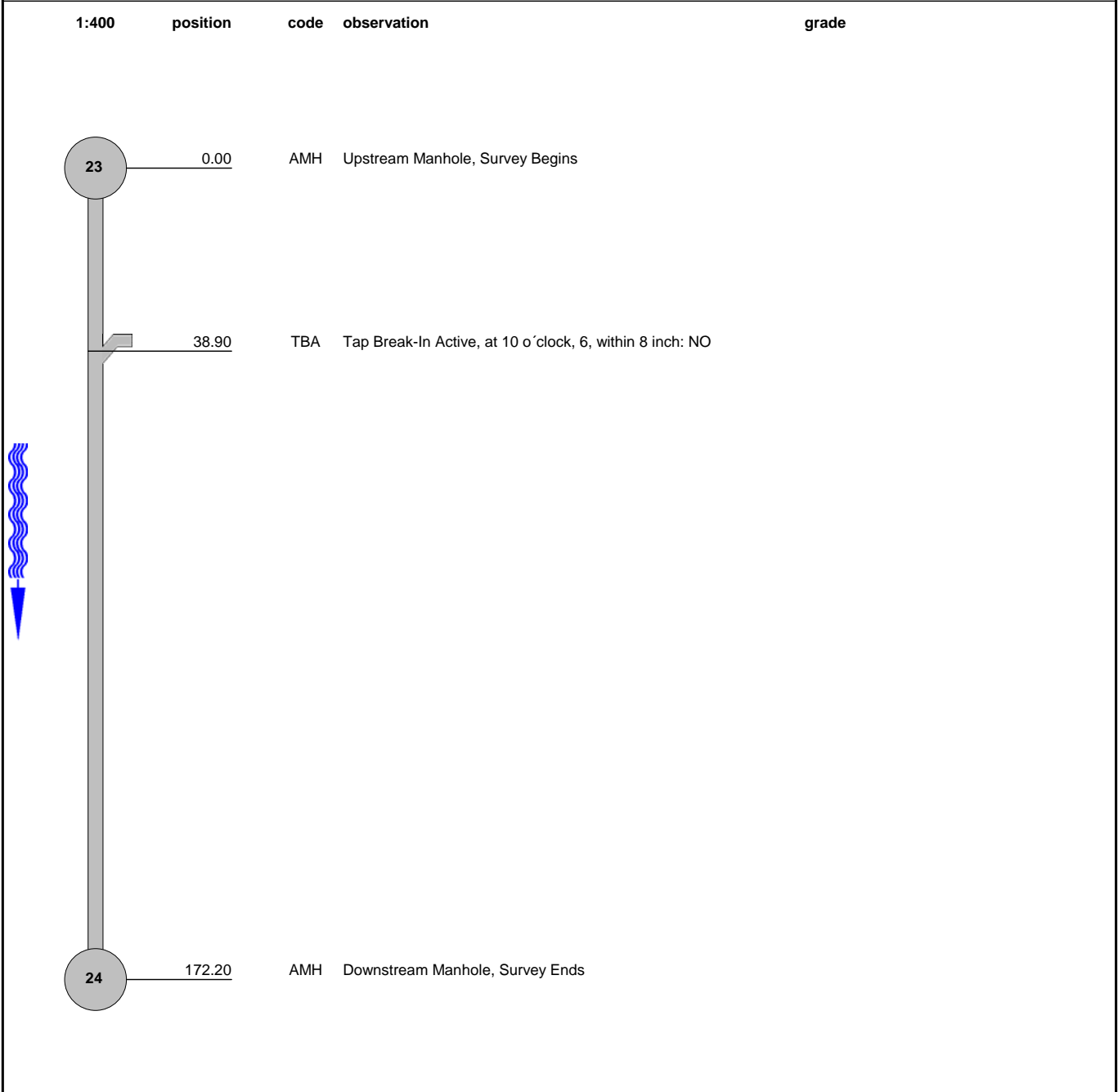
Inspection report

Date: 08/11/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 25	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 23
City: FRANKLIN	Year Renewed	End MH: 24
Location Code:	Tape/Media #: TV50-8-11-14	Total length surveyed: 172.2 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 18/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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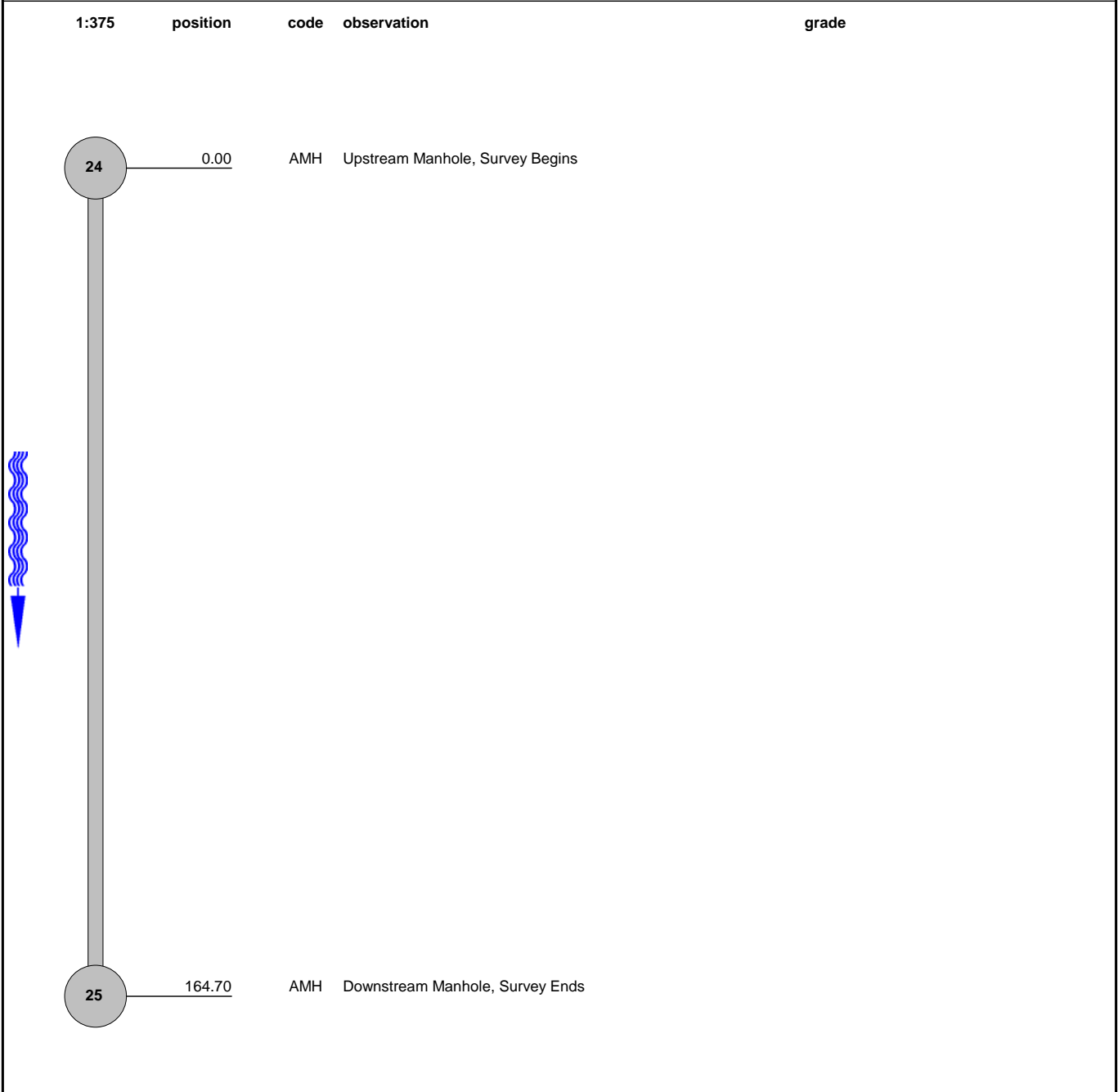
Inspection report

Date: 08/11/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 26	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 24
City: FRANKLIN	Year Renewed	End MH: 25
Location Code:	Tape/Media #: TV50-8-11-14	Total length surveyed: 164.7 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 20/18
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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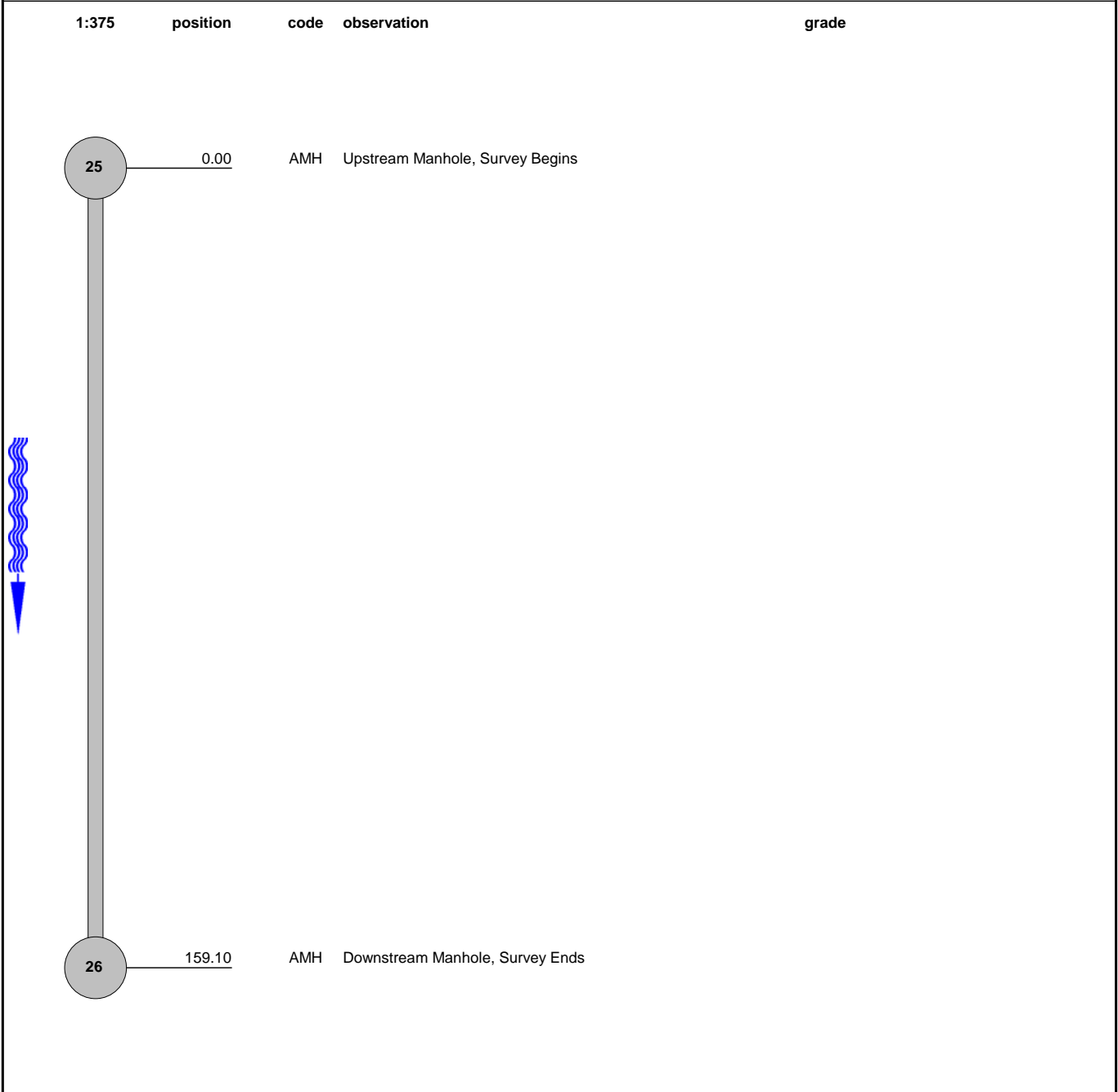
Inspection report

Date: 08/11/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 27	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 25
City: FRANKLIN	Year Renewed	End MH: 26
Location Code:	Tape/Media #: TV50-8-11-14	Total length surveyed: 159.1 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 20/20
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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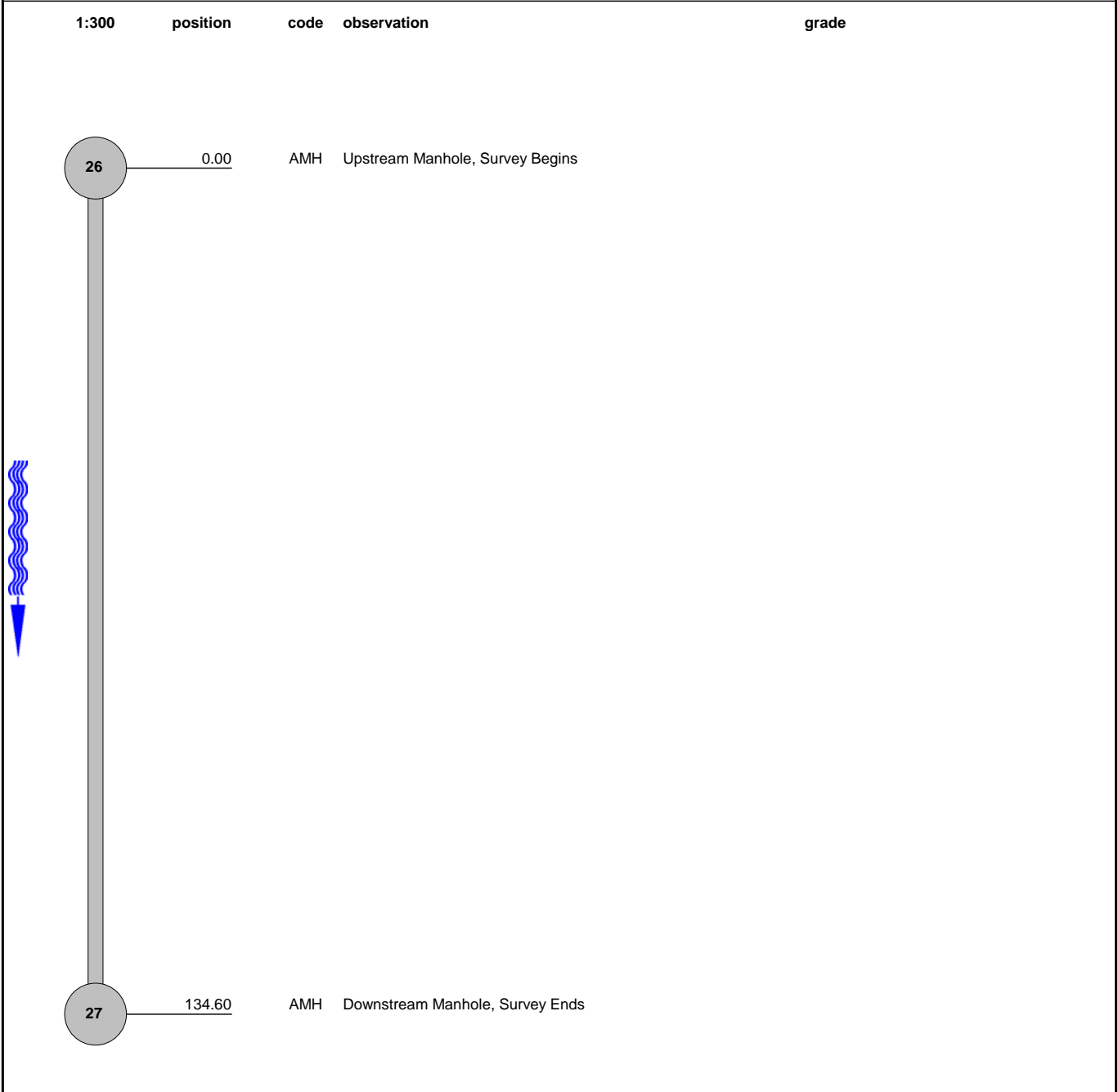
Inspection report

Date: 08/11/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 28	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 26
City: FRANKLIN	Year Renewed	End MH: 27
Location Code:	Tape/Media #: TV50-8-11-14	Total length surveyed: 134.6 ft

purpose of Survey: F Routine Assessment	Shape/Size: C Circular 20/20
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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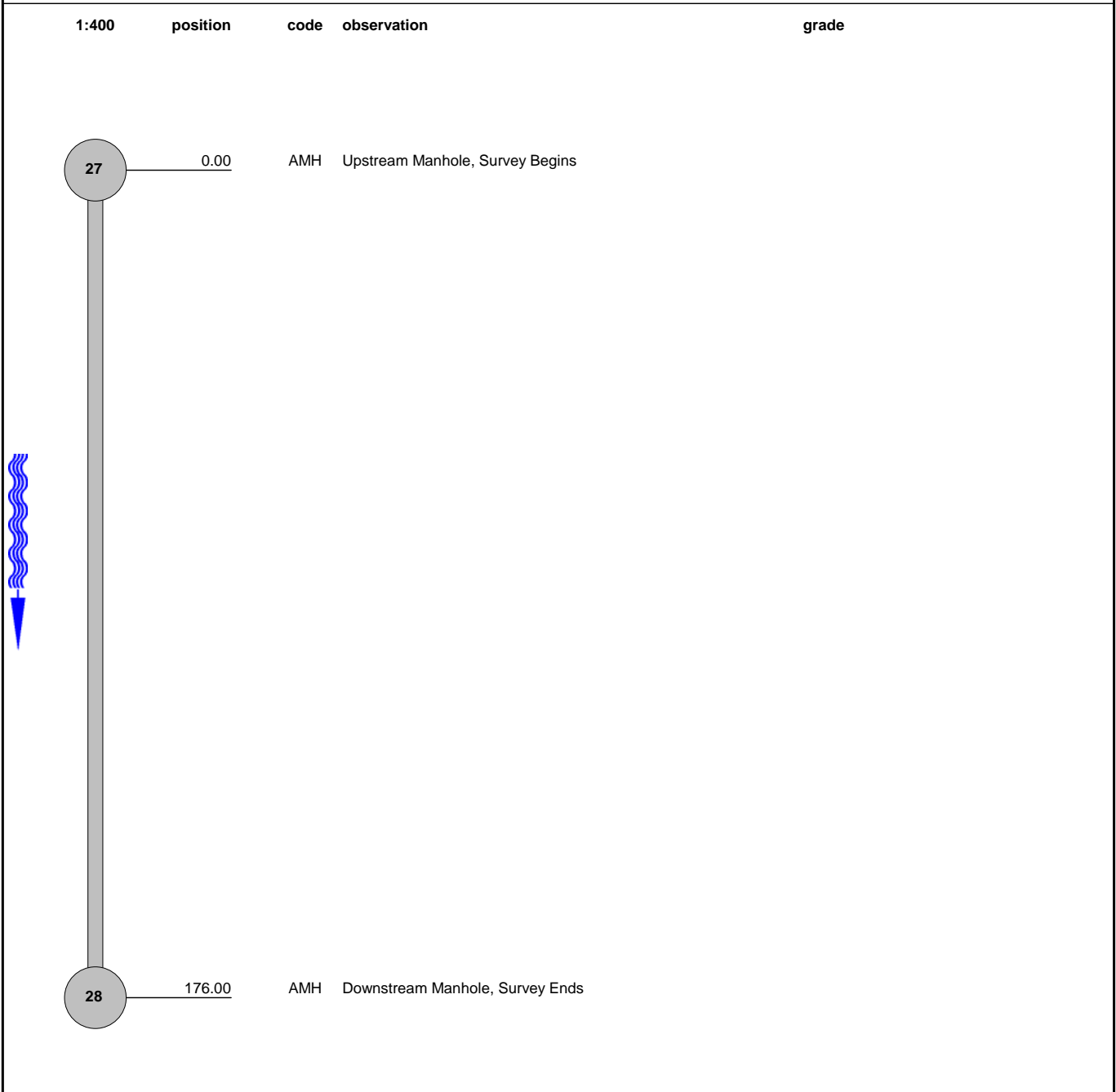
Inspection report

Date: 08/19/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 29	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 27
City: FRANKLIN,MA	Year Renewed	End MH: 28
Location Code:	Tape/Media #: TV50-8-19-14	Total length surveyed: 176 ft

purpose of Survey:	Shape/Size: C Circular 20/20
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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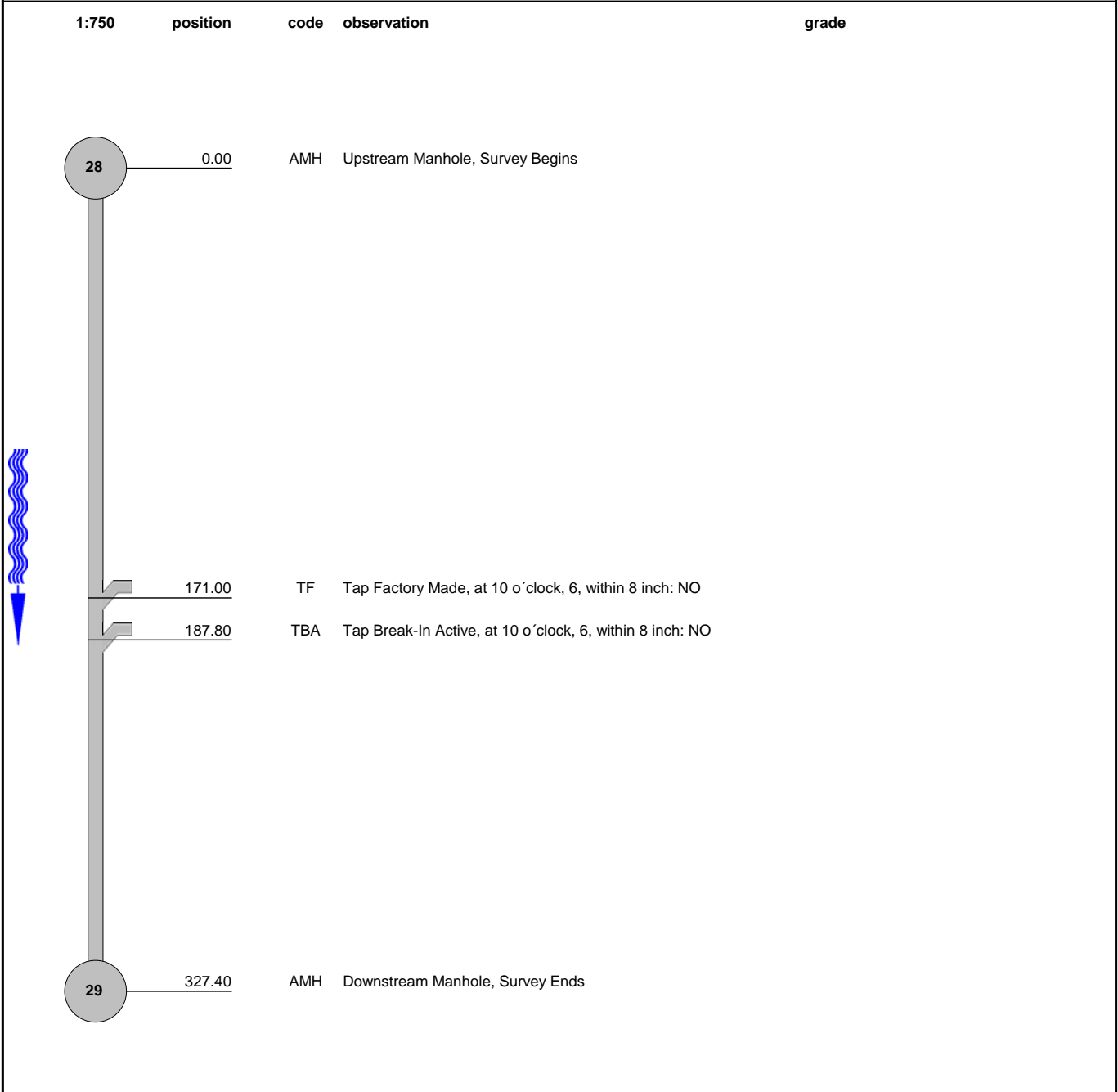
Inspection report

Date: 08/19/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: B.OLMEDA	section number: 30	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 28
City: FRANKLIN,MA	Year Renewed	End MH: 29
Location Code:	Tape/Media #: TV50-8-19-14	Total length surveyed: 327.4 ft

purpose of Survey:	Shape/Size: C Circular 20/20
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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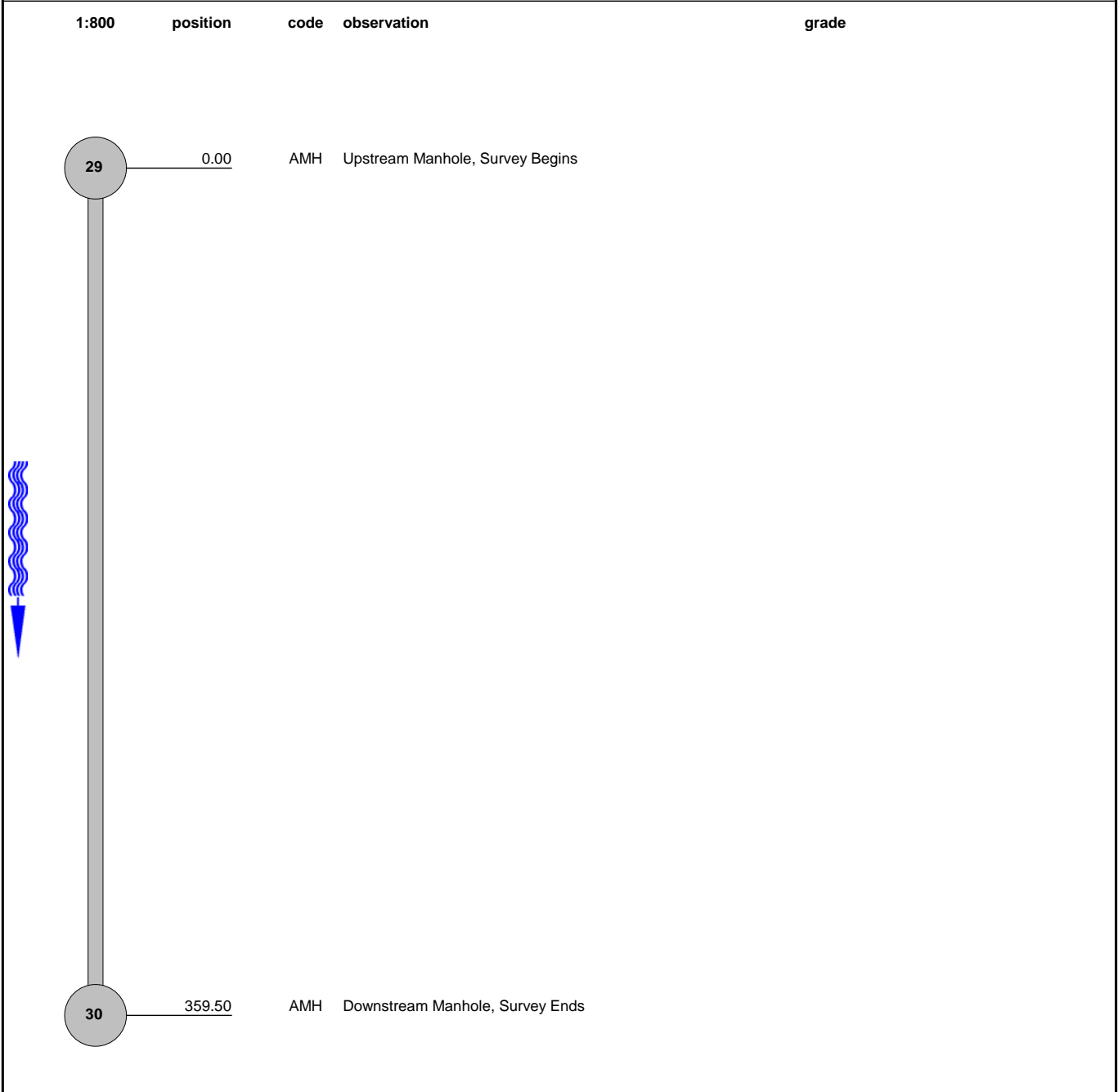
Inspection report

Date: 08/21/2014	P.O.# / WO.#:	Weather:	Surveyed By: B.OLMEDA	section number: 31	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 29
City: FRANKLIN,MA	Year Renewed	End MH: 30
Location Code:	Tape/Media #: TV50-8-21-14	Total length surveyed: 359.5 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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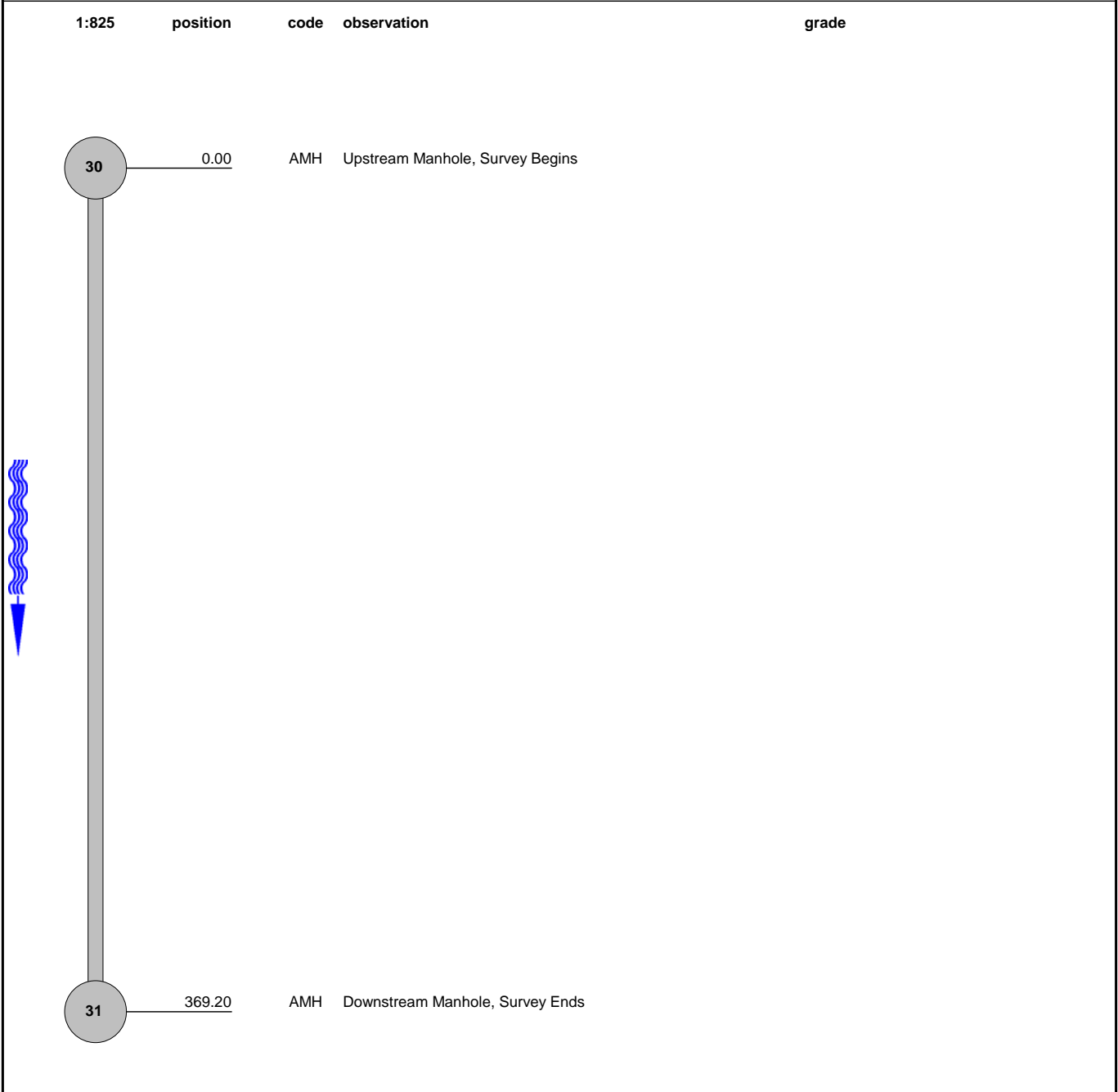
Inspection report

Date: 08/21/2014	P.O.# / WO.#:	Weather:	Surveyed By: B.OLMEDA	section number: 32	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: J Jetting	rate:

Street: EASEMENT	Flow Control:	Start MH: 30
City: FRANKLIN,MA	Year Renewed	End MH: 31
Location Code:	Tape/Media #: TV50-8-21-14	Total length surveyed: 369.2 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use:	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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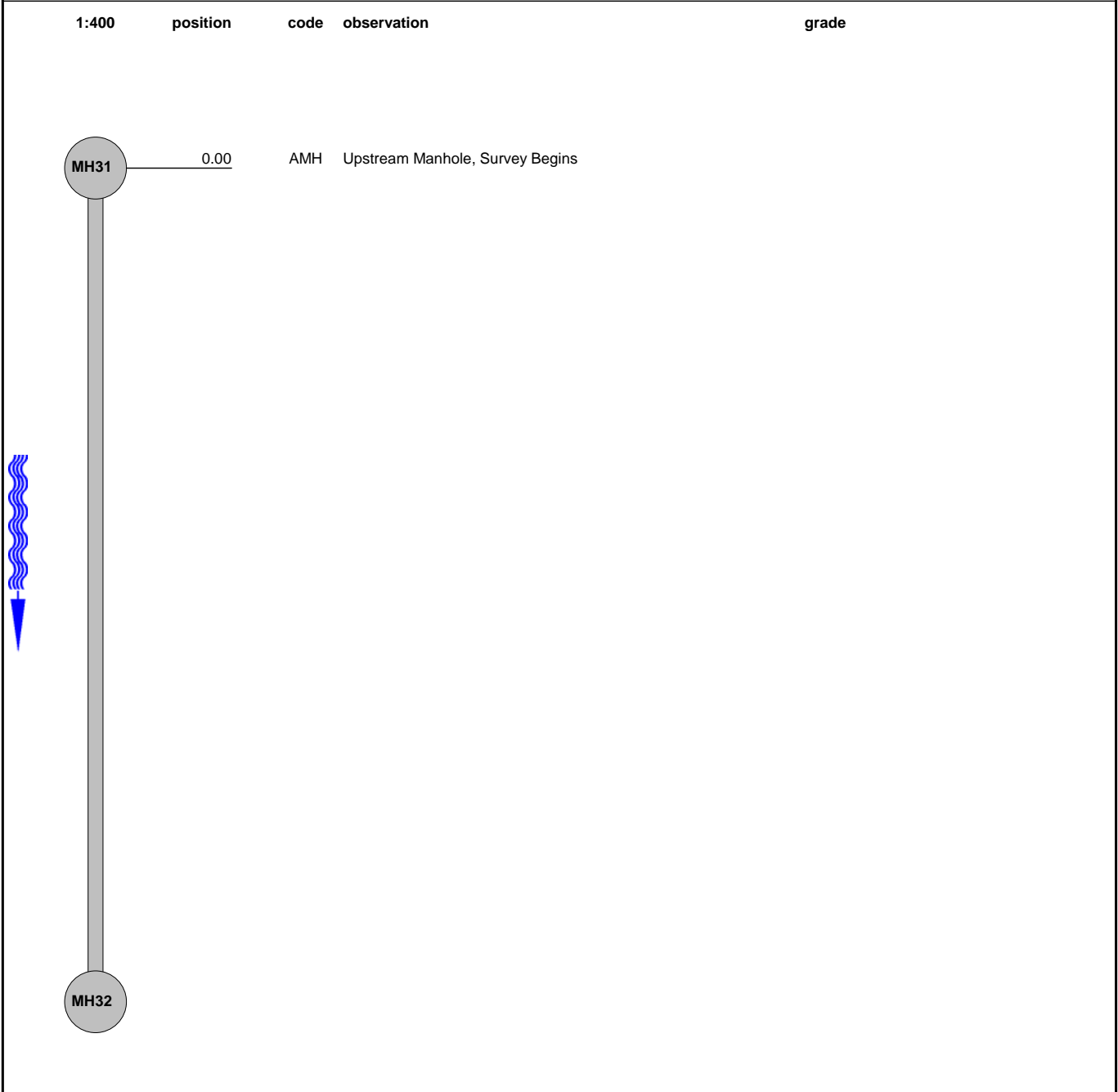
Inspection report

Date: 08/23/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: A. Rodrigues	section number: 33	PSR:
Total Length of Section:	Survey Customer: Arcadis	Job #: ARC005-4	Clean Date: 08/23/2014	Pre-Cleaned: H Heavy Cleaning	rate:

Street: Beaver St Easment	Flow Control: N Not Controlled	Start MH: MH31
City: FRANKLIN,MA	Year Renewed	End MH: MH32
Location Code: E Woods	Tape/Media #: TV50-8-23-14	Total length surveyed: 177 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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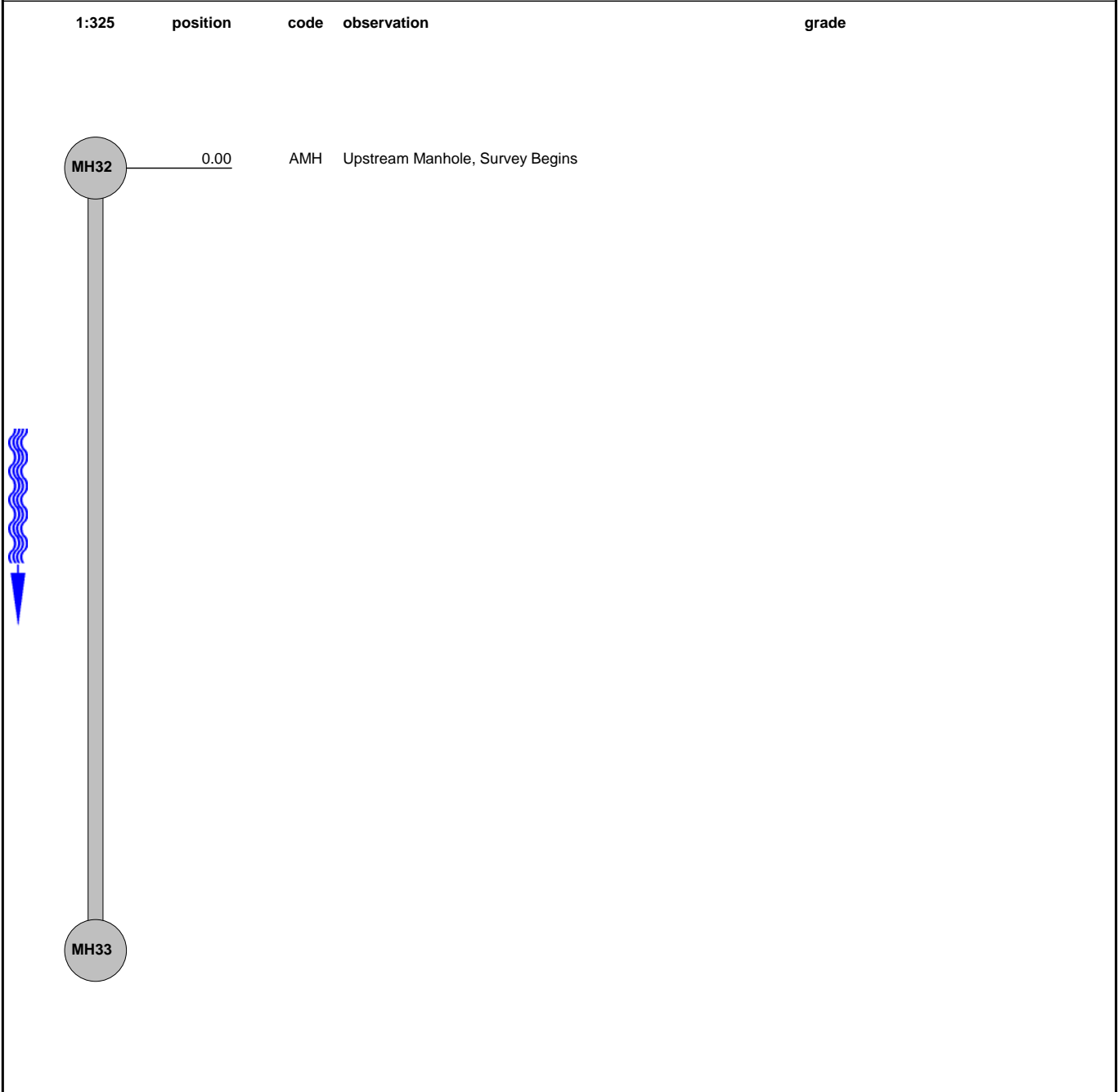
Inspection report

Date: 08/23/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: A. Rodrigues	section number: 34	PSR:
Total Length of Section:	Survey Customer: Arcadis	Job #: ARC005-4	Clean Date: 08/23/2014	Pre-Cleaned: H Heavy Cleaning	rate:

Street: Beaver St Easment	Flow Control: N Not Controlled	Start MH: MH32
City: FRANKLIN,MA	Year Renewed	End MH: MH33
Location Code: E Woods	Tape/Media #: TV50-8-23-14	Total length surveyed: 135 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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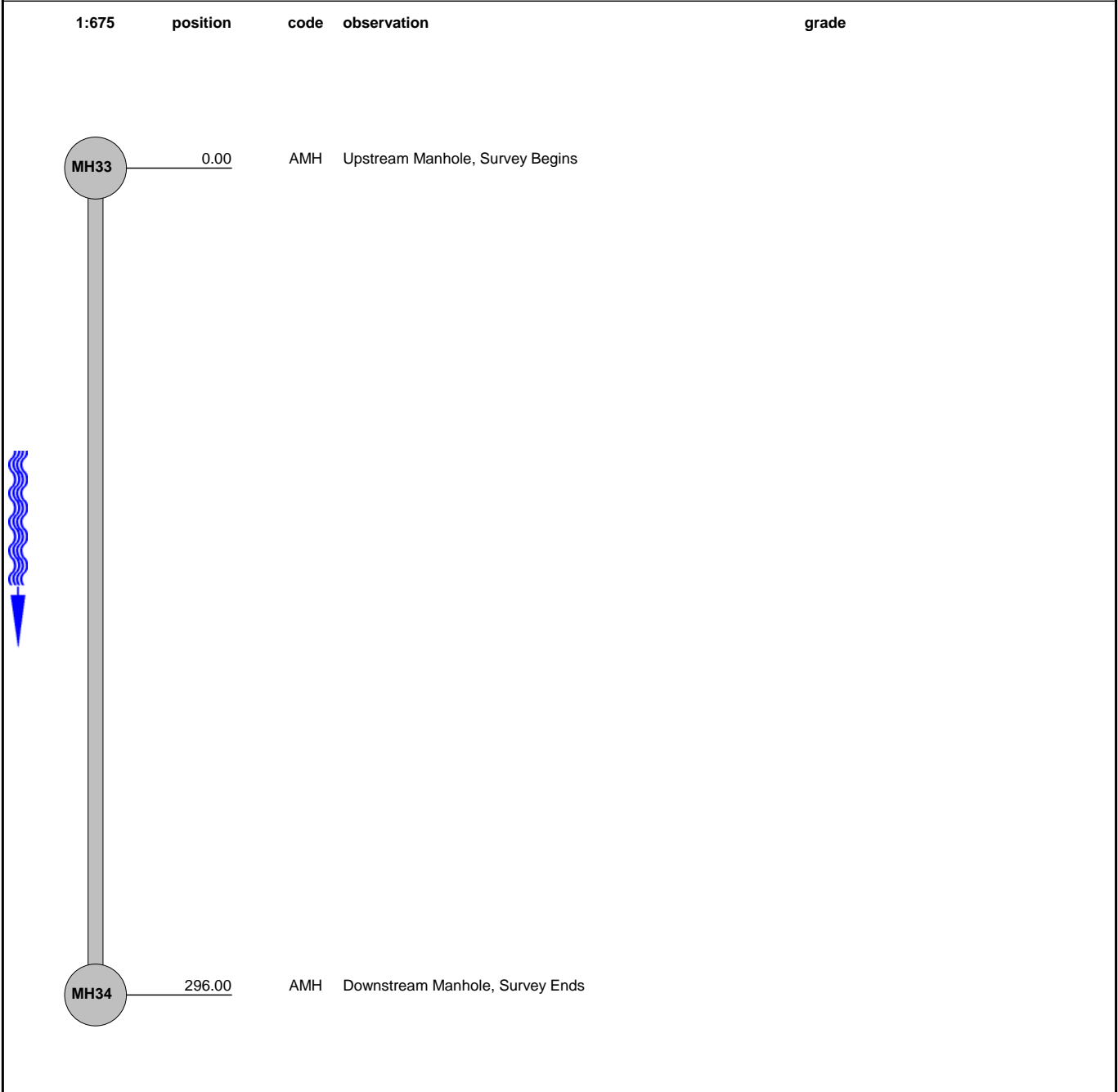
Inspection report

Date: 08/23/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: A. Rodrigues	section number: 35	PSR:
Total Length of Section:	Survey Customer: Arcadis	Job #: ARC005-4	Clean Date: 08/23/2014	Pre-Cleaned: H Heavy Cleaning	rate:

Street: Beaver St Easment	Flow Control: N Not Controlled	Start MH: MH33
City: FRANKLIN,MA	Year Renewed	End MH: MH34
Location Code: E Woods	Tape/Media #: TV50-8-23-14	Total length surveyed: 296 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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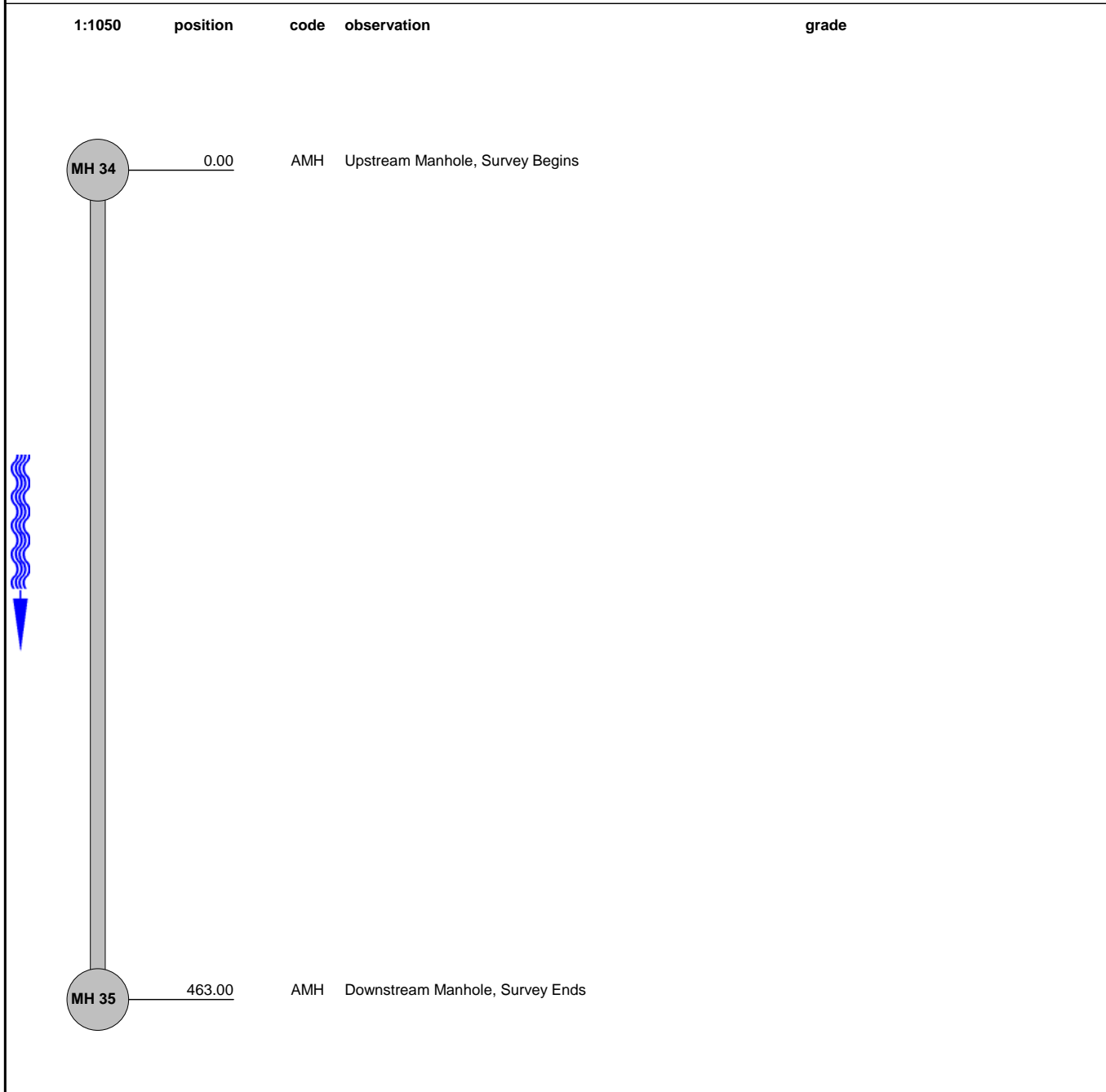
Inspection report

Date: 08/26/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: DAVID DUDLEY	section number: 36	PSR:
Total Length of Section:	Survey Customer: Arcadis	Job #: ARC005-4	Clean Date: 8/26/14	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER STREET	Flow Control:	Start MH: MH 34
City: FRANKLIN MA	Year Renewed	End MH: MH 35
Location Code: D Easement/Right of Way	Tape/Media #: TV215-082614	Total length surveyed: 463 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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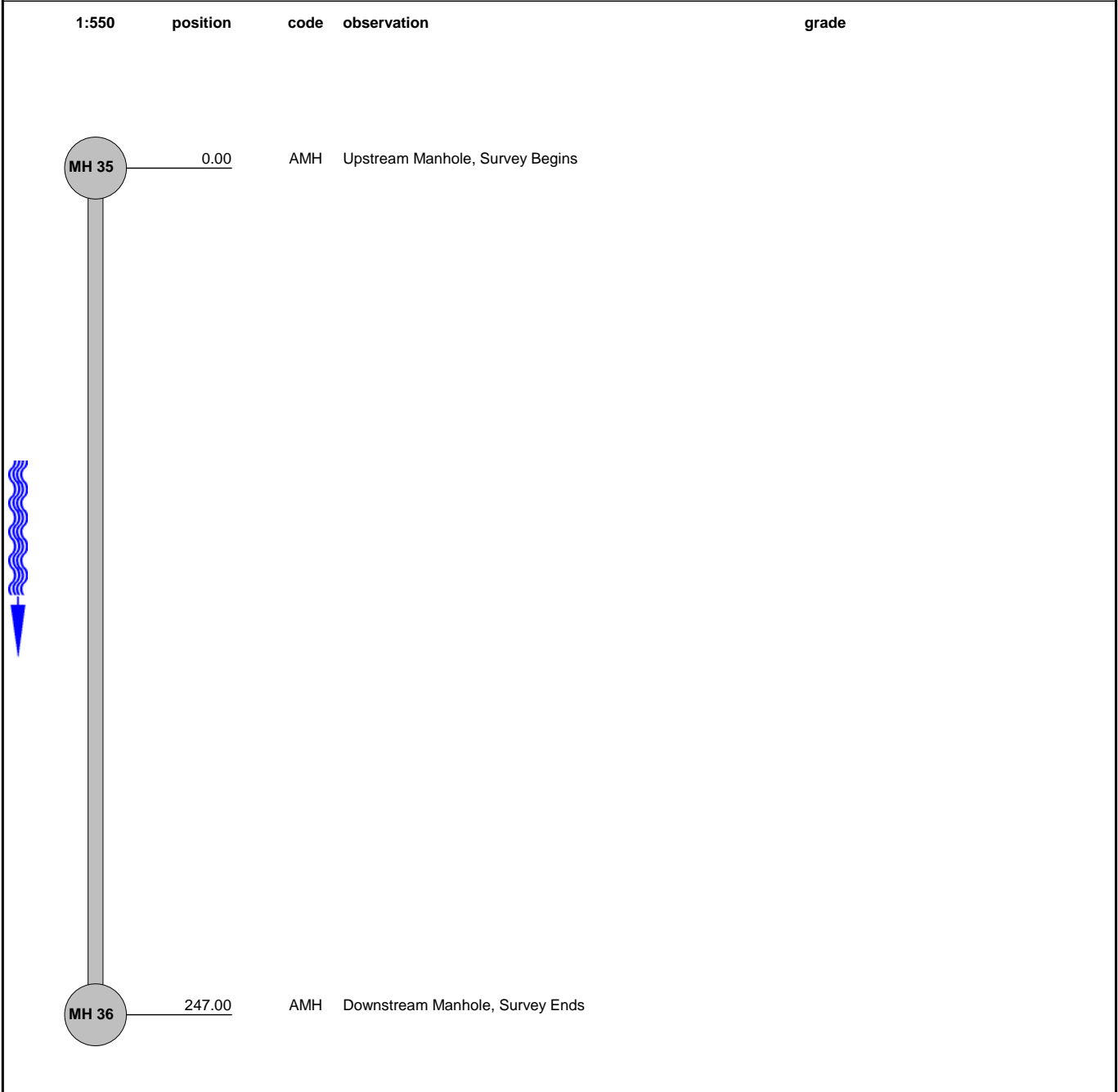
Inspection report

Date: 08/26/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: DAVID DUDLEY	section number: 37	PSR:
Total Length of Section:	Survey Customer: Arcadis	Job #: ARC005-4	Clean Date: 8/26/14	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER STREET	Flow Control:	Start MH: MH 35
City: FRANKLIN MA	Year Renewed	End MH: MH 36
Location Code: D Easement/Right of Way	Tape/Media #: TV215-082614	Total length surveyed: 247 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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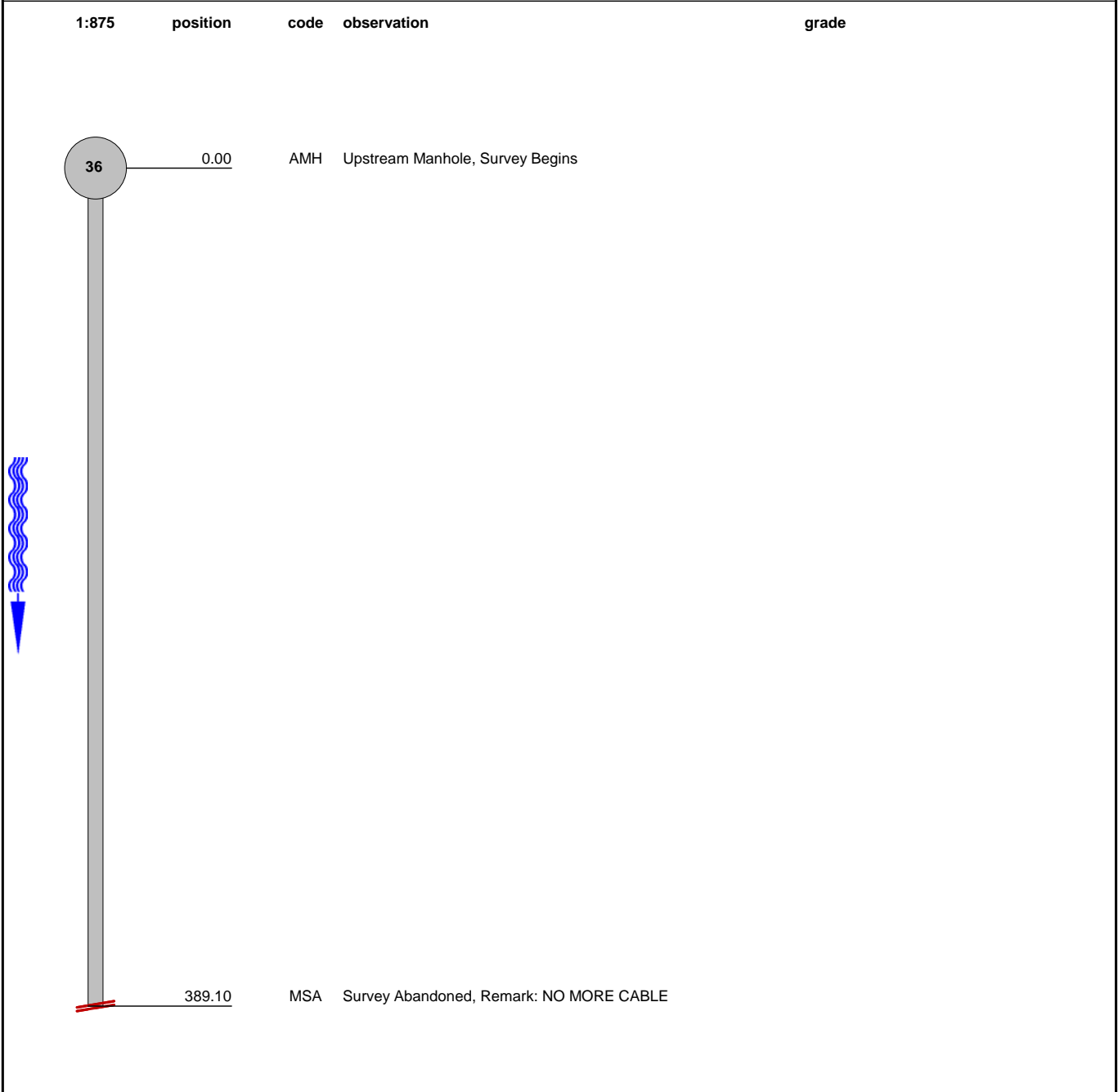
Inspection report

Date: 08/27/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: DAVID DUDLEY	section number: 38	PSR:
Total Length of Section:	Survey Customer: ARCADIS	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER STREET	Flow Control:	Start MH: 36
City: FRANKLIN MA	Year Renewed	End MH: 37
Location Code: D Easement/Right of Way	Tape/Media #: TV215-082714	Total length surveyed: 389.1 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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Inspection report

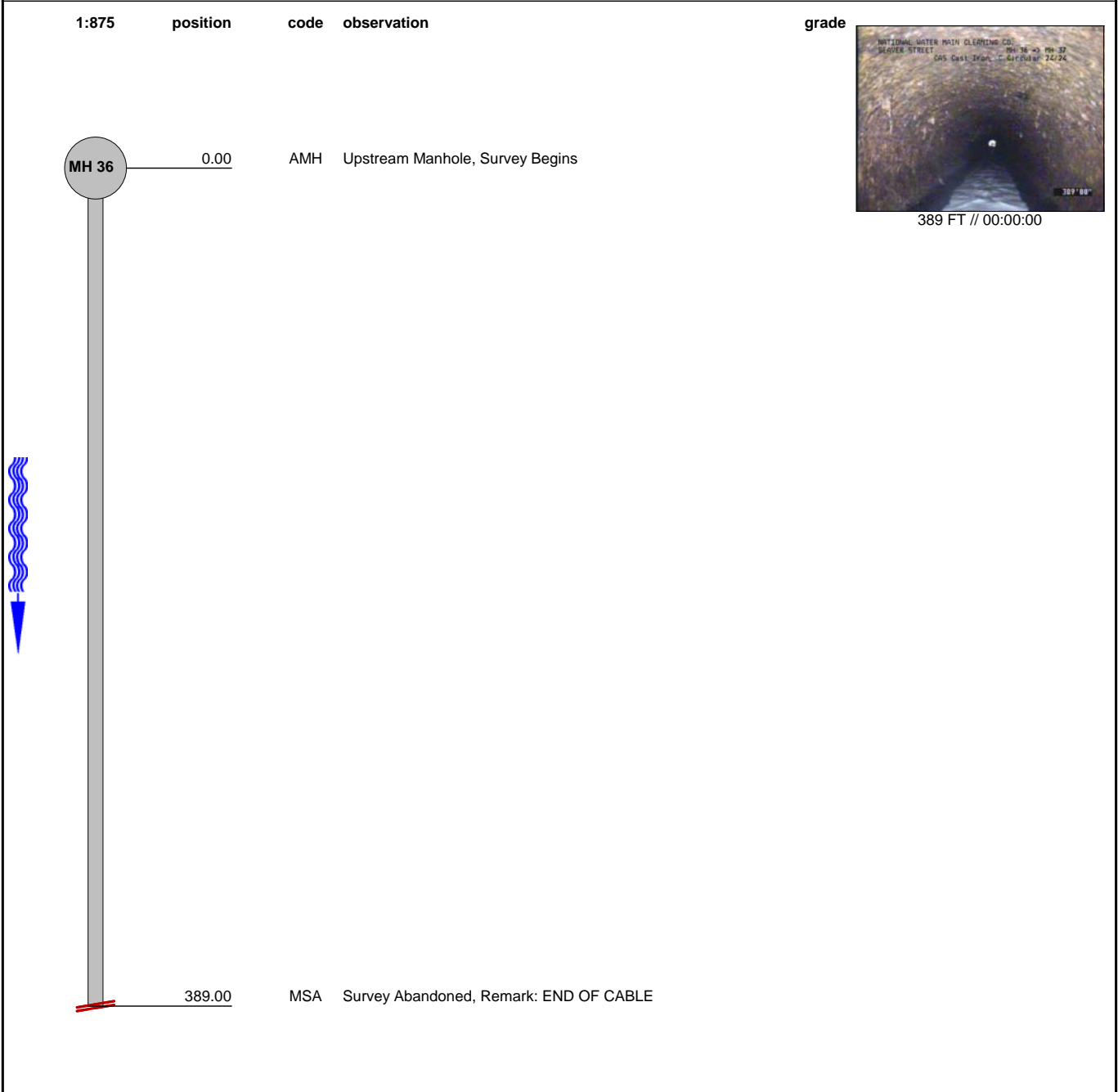
Date: 08/27/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: DAVID DUDLEY	section number: 39	PSR:
Total Length of Section:	Survey Customer: ARCADIS	Job #: ARC005-4	Clean Date: 08/27/2014	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER STREET	Flow Control: N Not Controlled	Start MH: MH 36
City: FRANKLIN MA	Year Renewed:	End MH: MH 37
Location Code: D Easement/Right of Way	Tape/Media #: TV215-082714	Total length surveyed: 389 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment: **RAN OUT OF TV CABLE**

Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



Inspection photos

City: FRANKLIN MA	Street: BEAVER STREET	Date: 08/27/2014	section number: 39	PSR:
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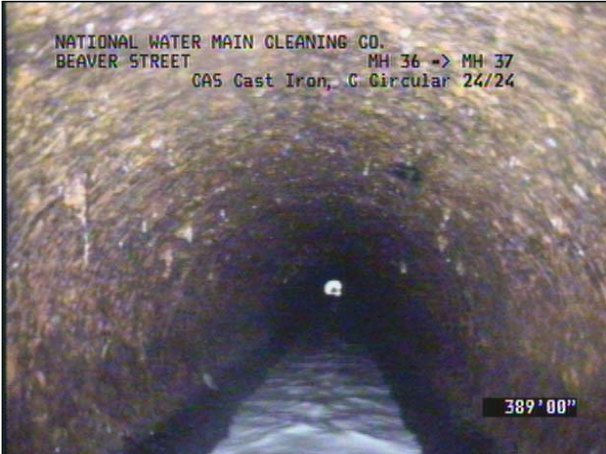


Photo: 5_2a, Tape/Media No.: TV215-082714, 00:00:00
389FT, Survey Abandoned, Remark: END OF CABLE



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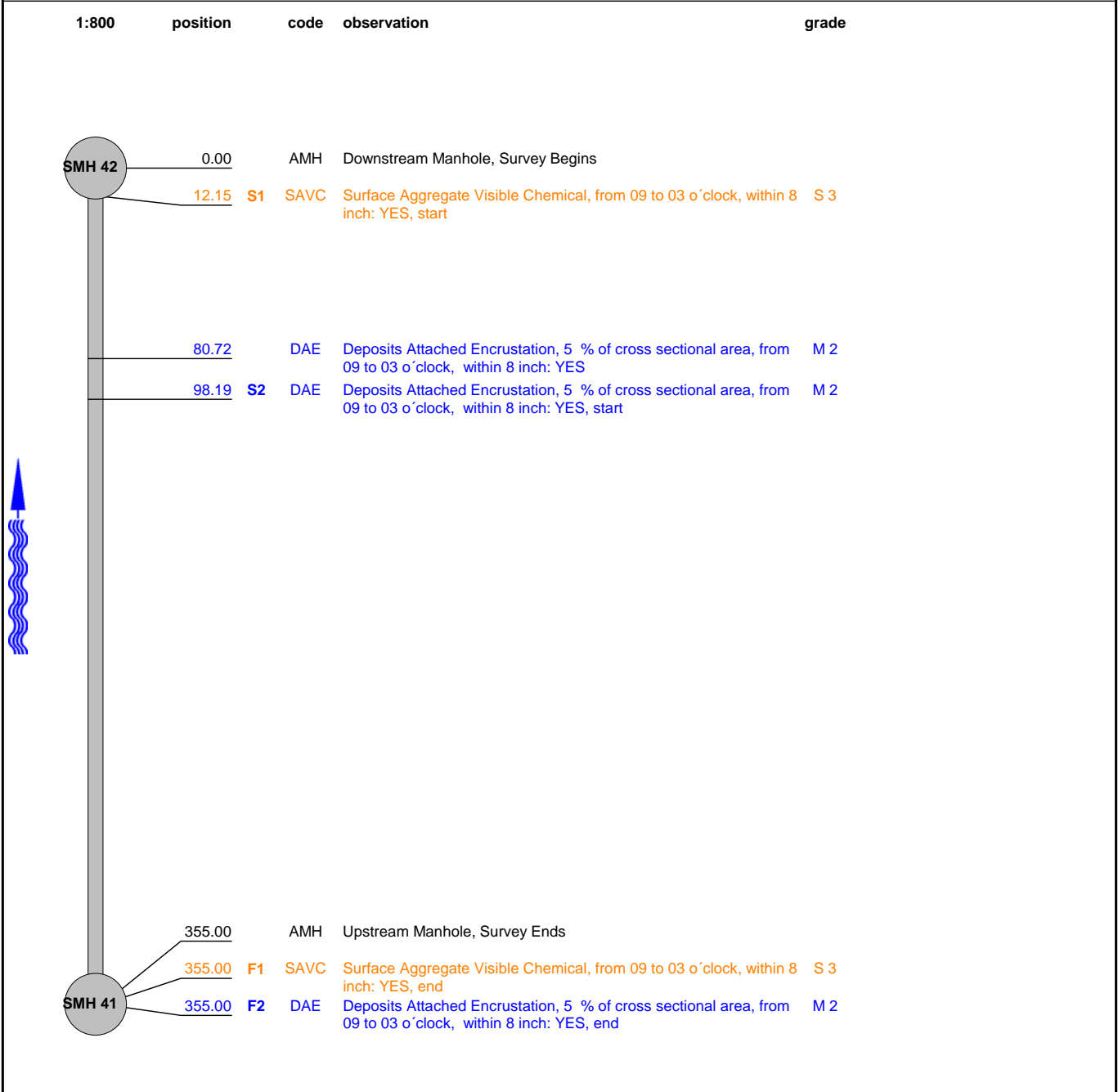
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 40	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 42
City: FRANKLIN MA	Year Renewed:	End MH: SMH 41
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 355 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
3L00	2100	207	104	311	3	2	2.57



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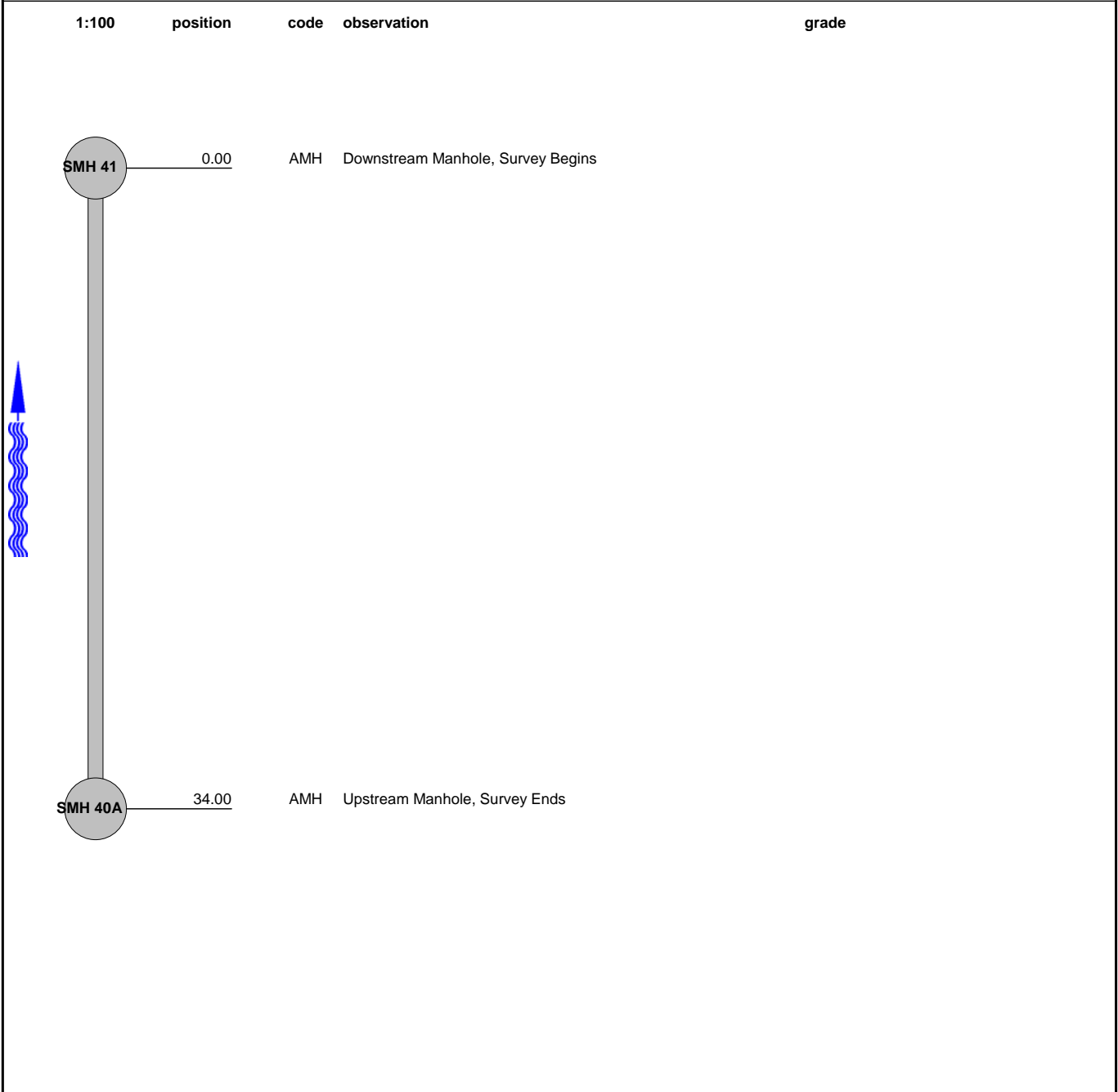
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 41	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 41
City: FRANKLIN MA	Year Renewed:	End MH: SMH 40A
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 34 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
 Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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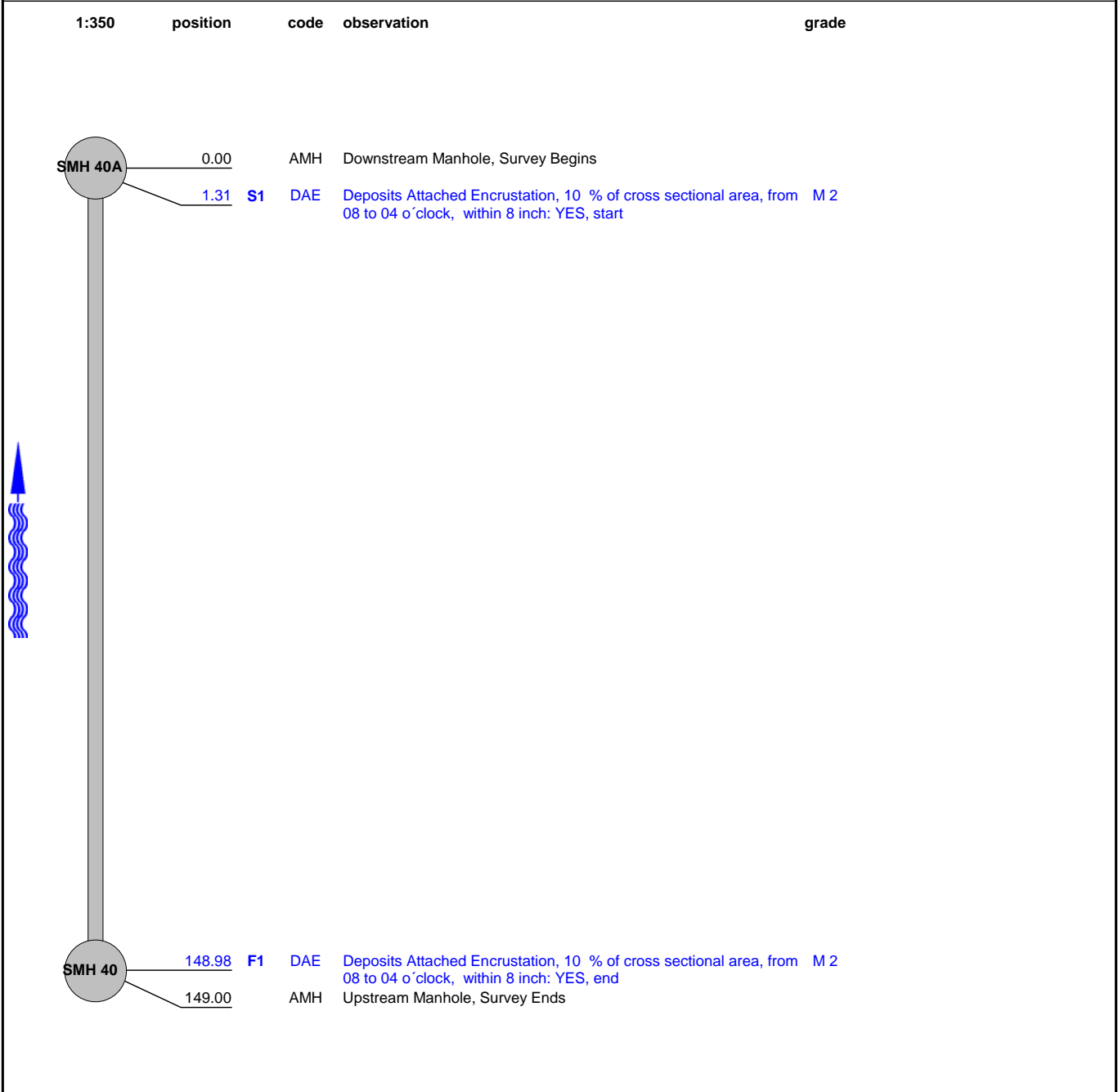
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 42	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 40A
City: FRANKLIN MA	Year Renewed:	End MH: SMH 40
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 149 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2E00	0	60	60	0	2	2



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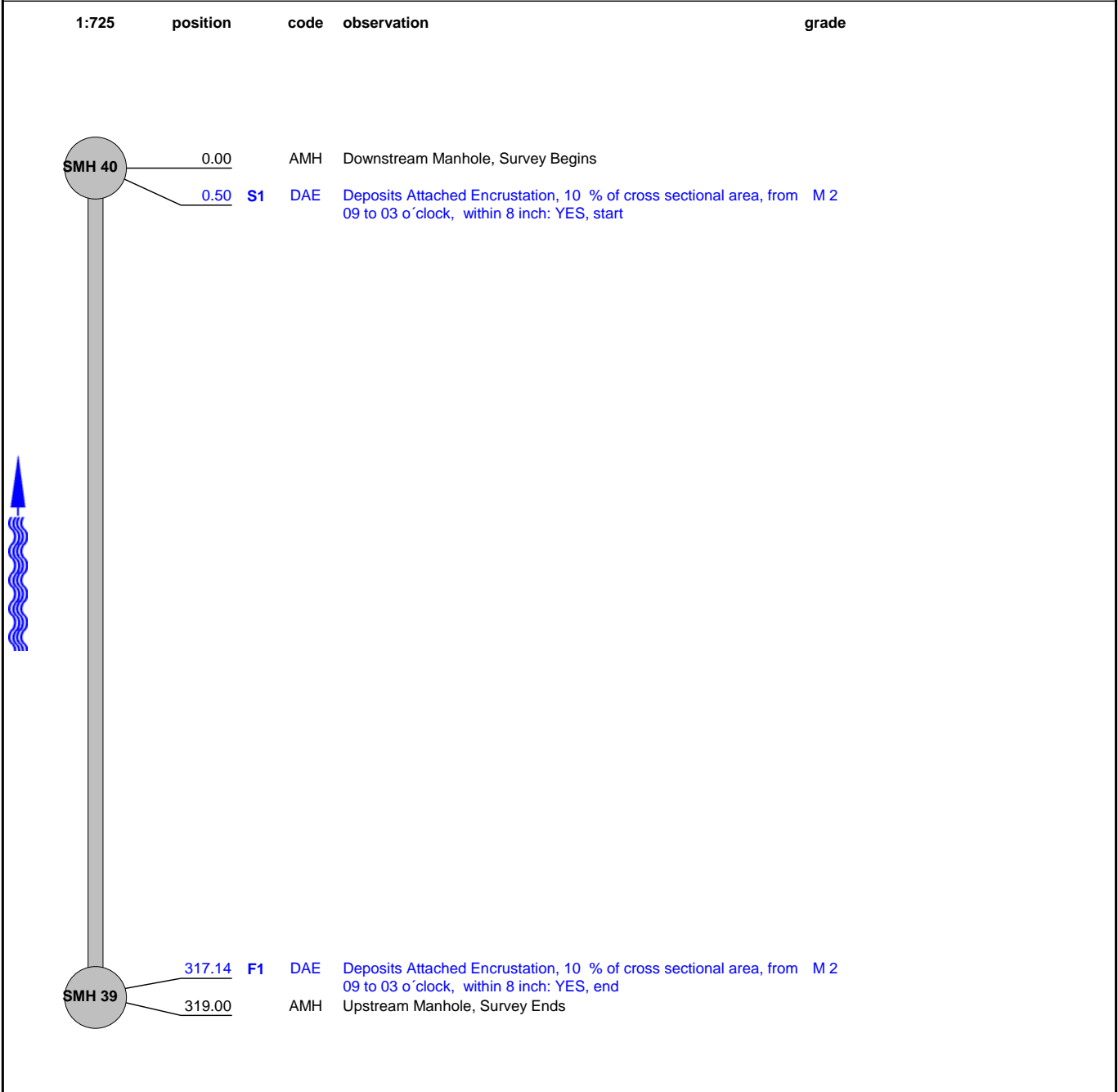
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 43	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 40
City: FRANKLIN MA	Year Renewed:	End MH: SMH 39
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 319 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2K00	0	126	126	0	2	2



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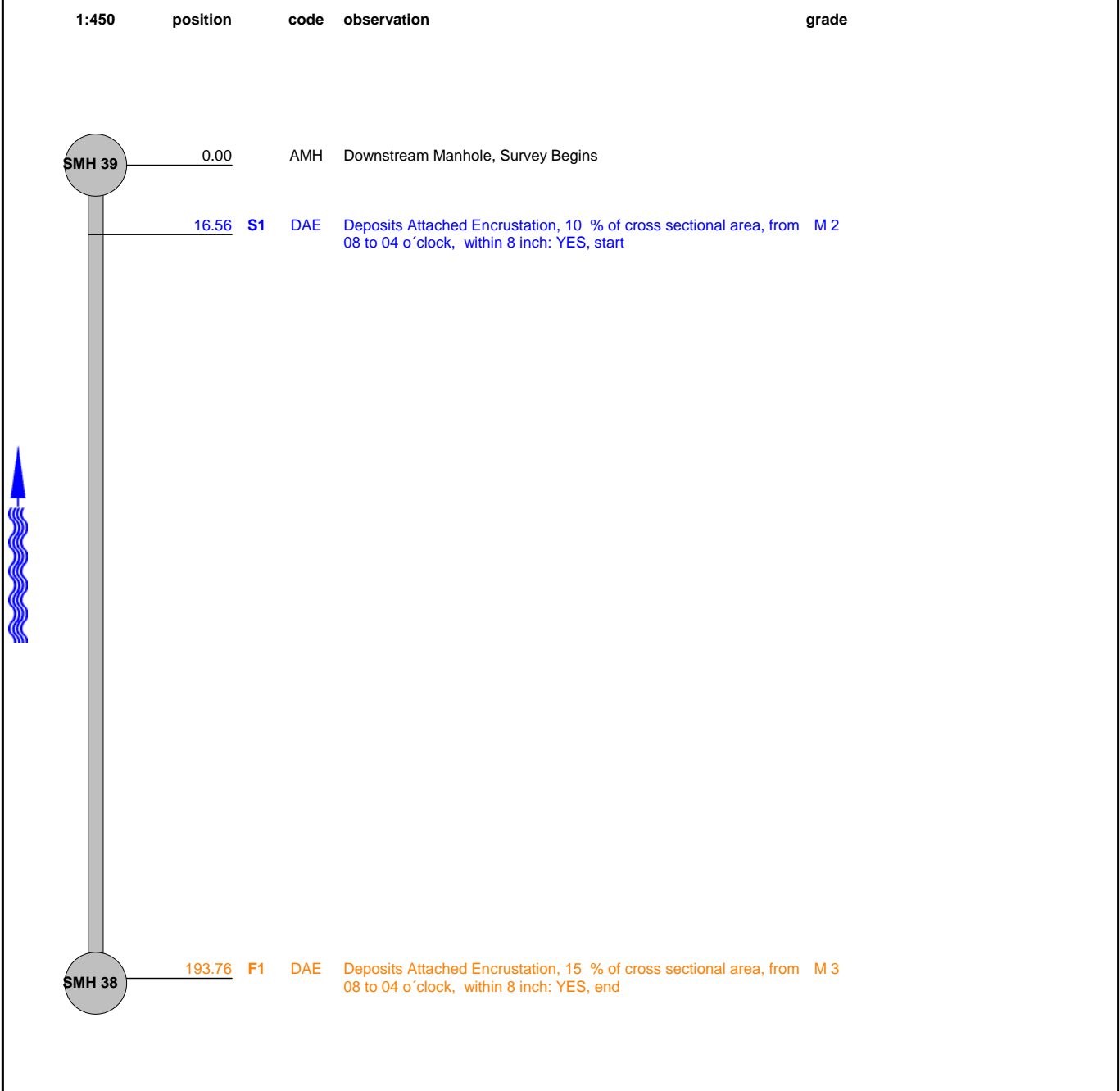
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 44	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 39
City: FRANKLIN MA	Year Renewed:	End MH: SMH 38
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 195 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	312E	0	71	71	0	2.03	2.03



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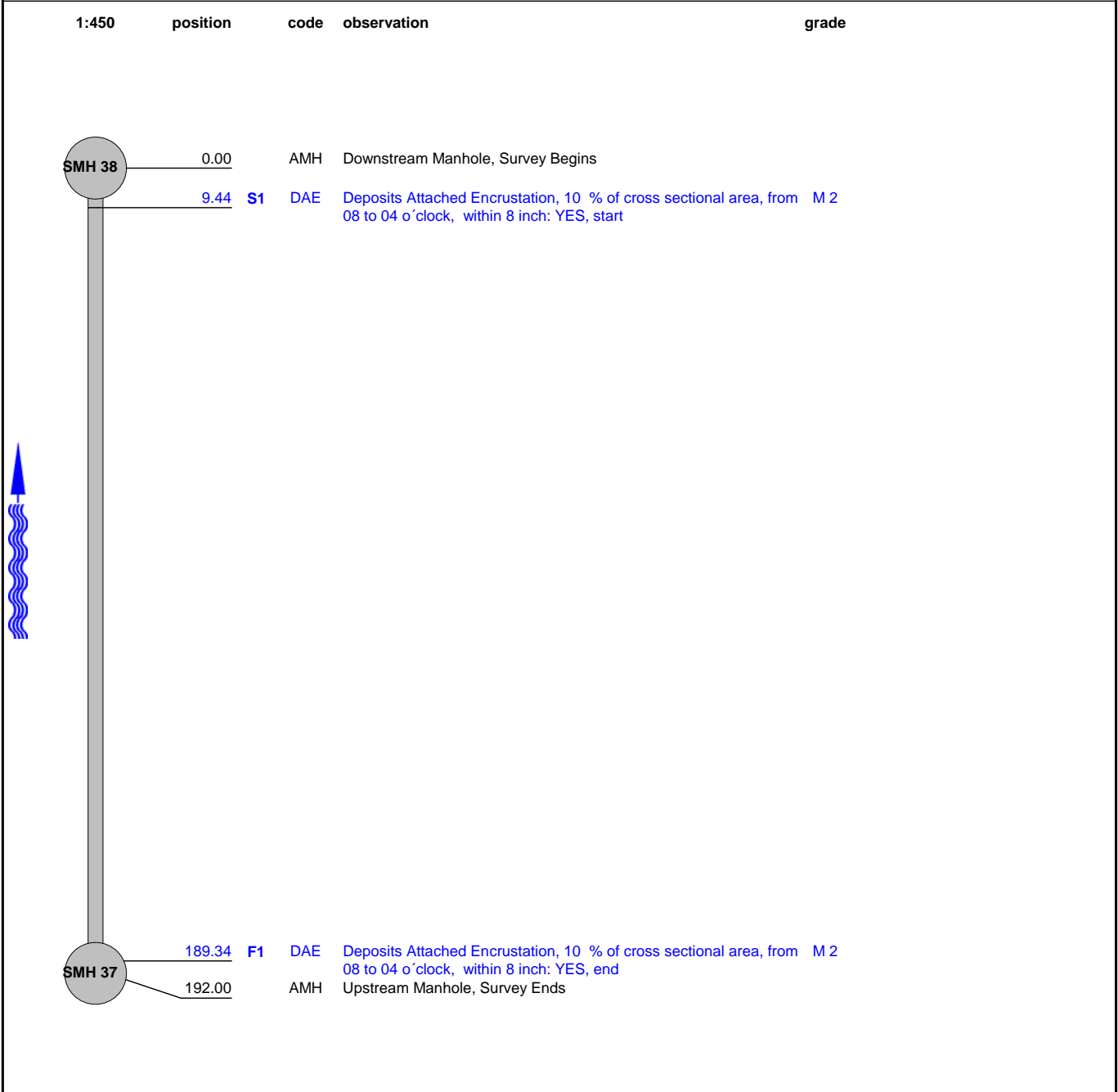
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 45	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 38
City: FRANKLIN MA	Year Renewed:	End MH: SMH 37
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 192 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2F00	0	72	72	0	2	2



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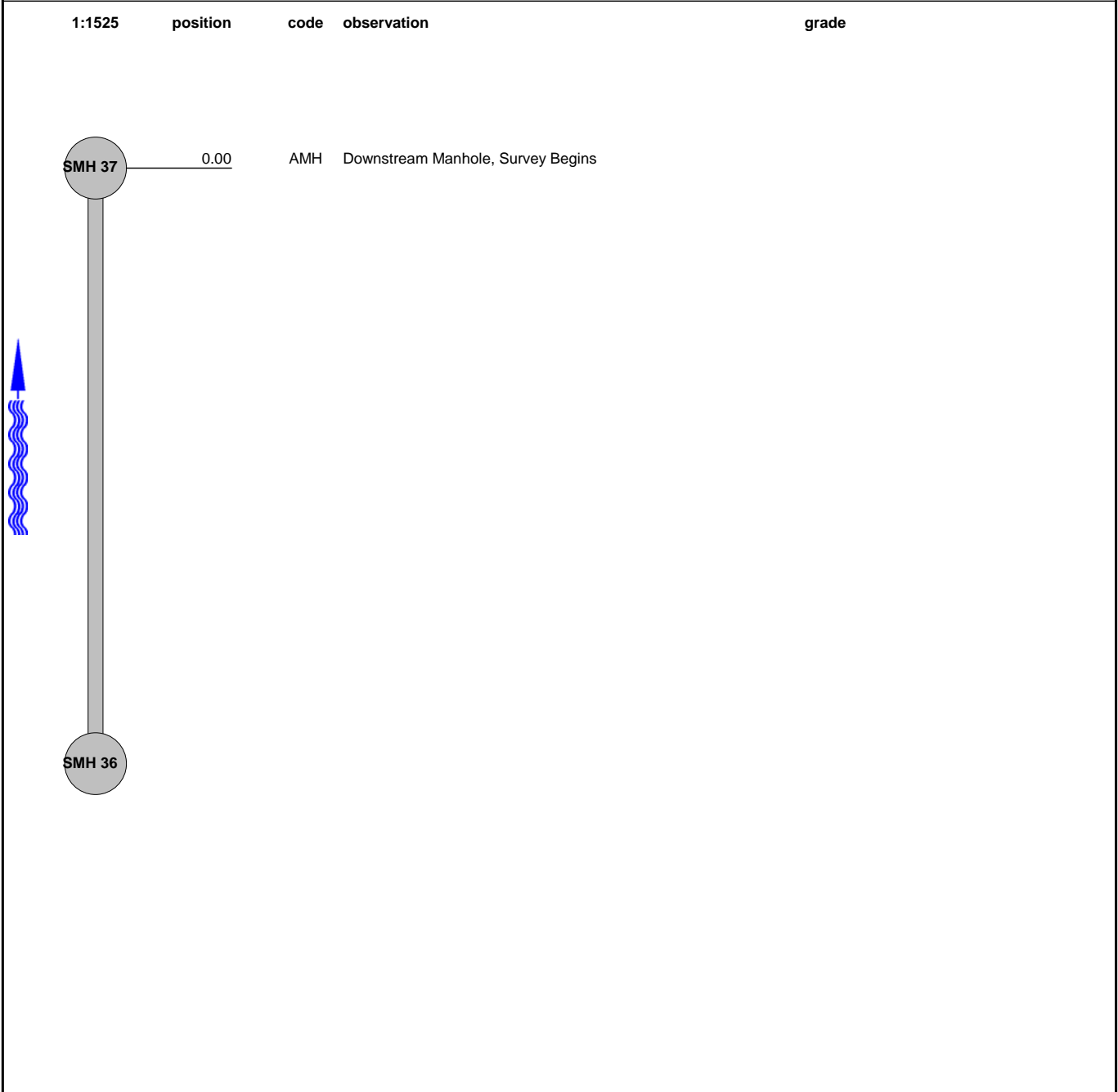
Inspection report

Date: 08/30/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 46	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: N Not Controlled	Start MH: SMH 37
City: FRANKLIN MA	Year Renewed:	End MH: SMH 36
Location Code: D Easement/Right of Way	Tape/Media #: TV41-082914	Total length surveyed: 482 ft

purpose of Survey:	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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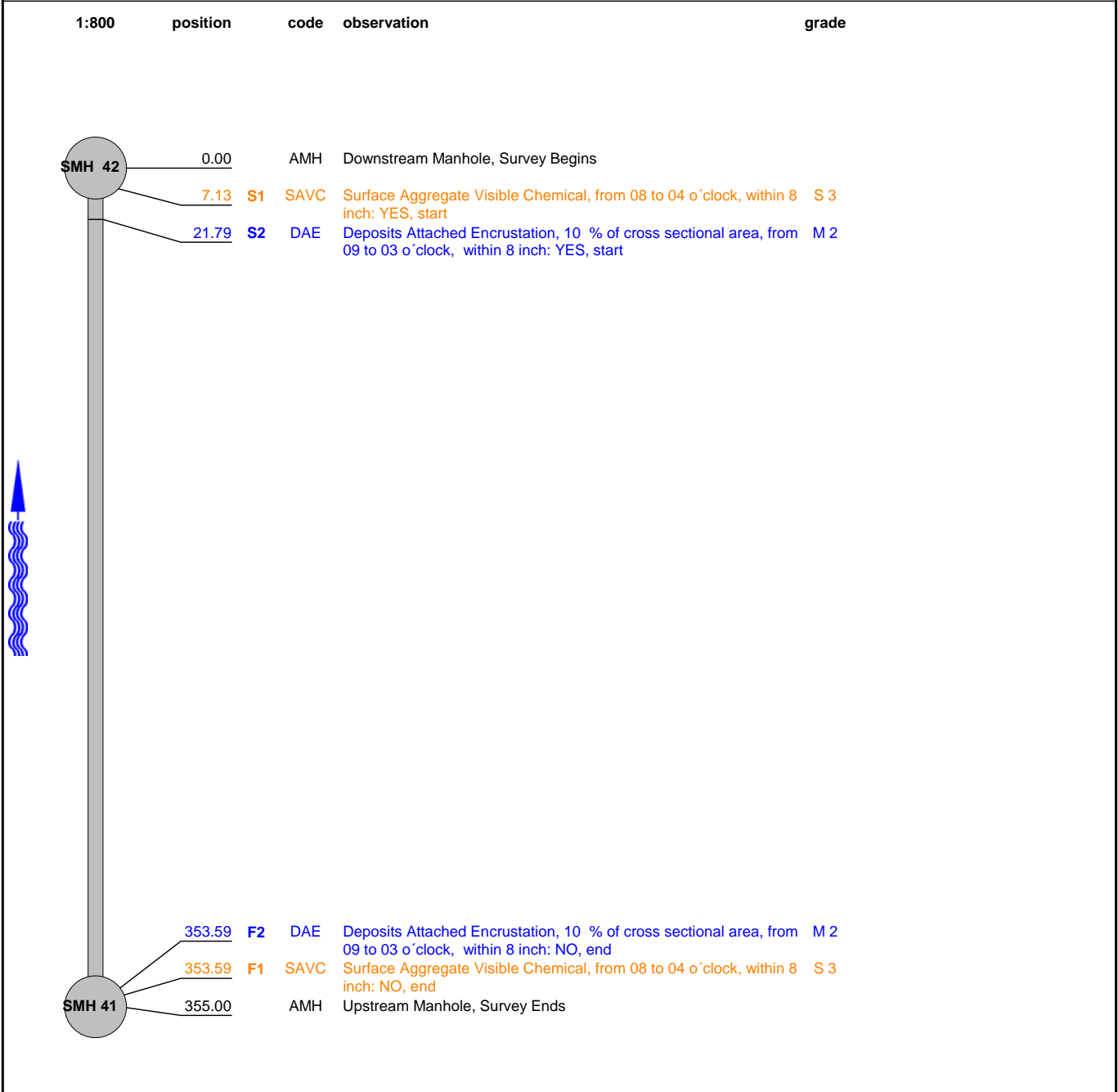
Inspection report

Date: 09/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 47	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 42
City: FRANKLIN MA	Year Renewed:	End MH: SMH 41
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090414	Total length surveyed: 355 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
3L00	2L00	207	132	339	3	2	2.51



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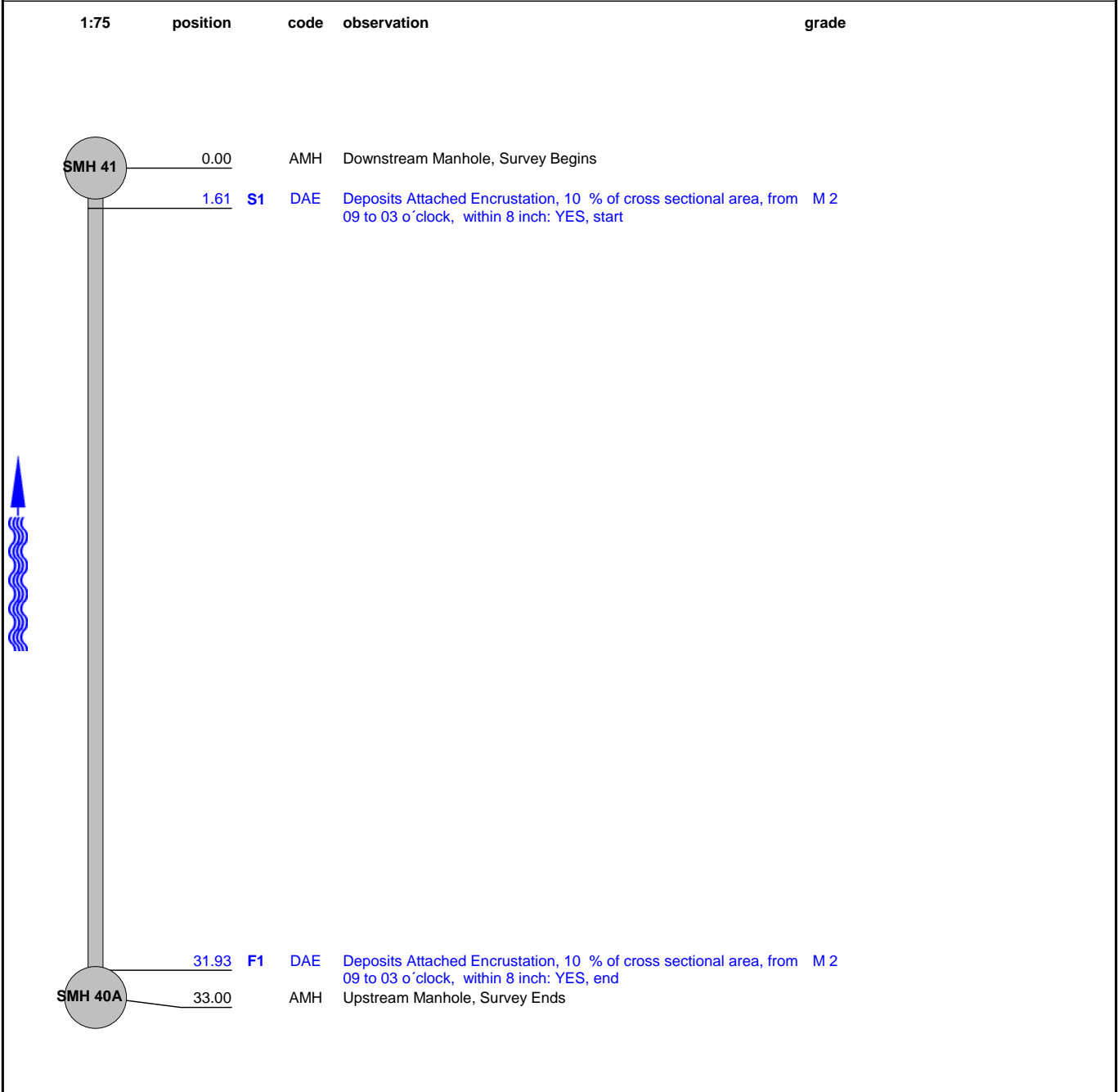
Inspection report

Date: 09/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 48	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 41
City: FRANKLIN MA	Year Renewed:	End MH: SMH 40A
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090414	Total length surveyed: 33 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2600	0	12	12	0	2	2



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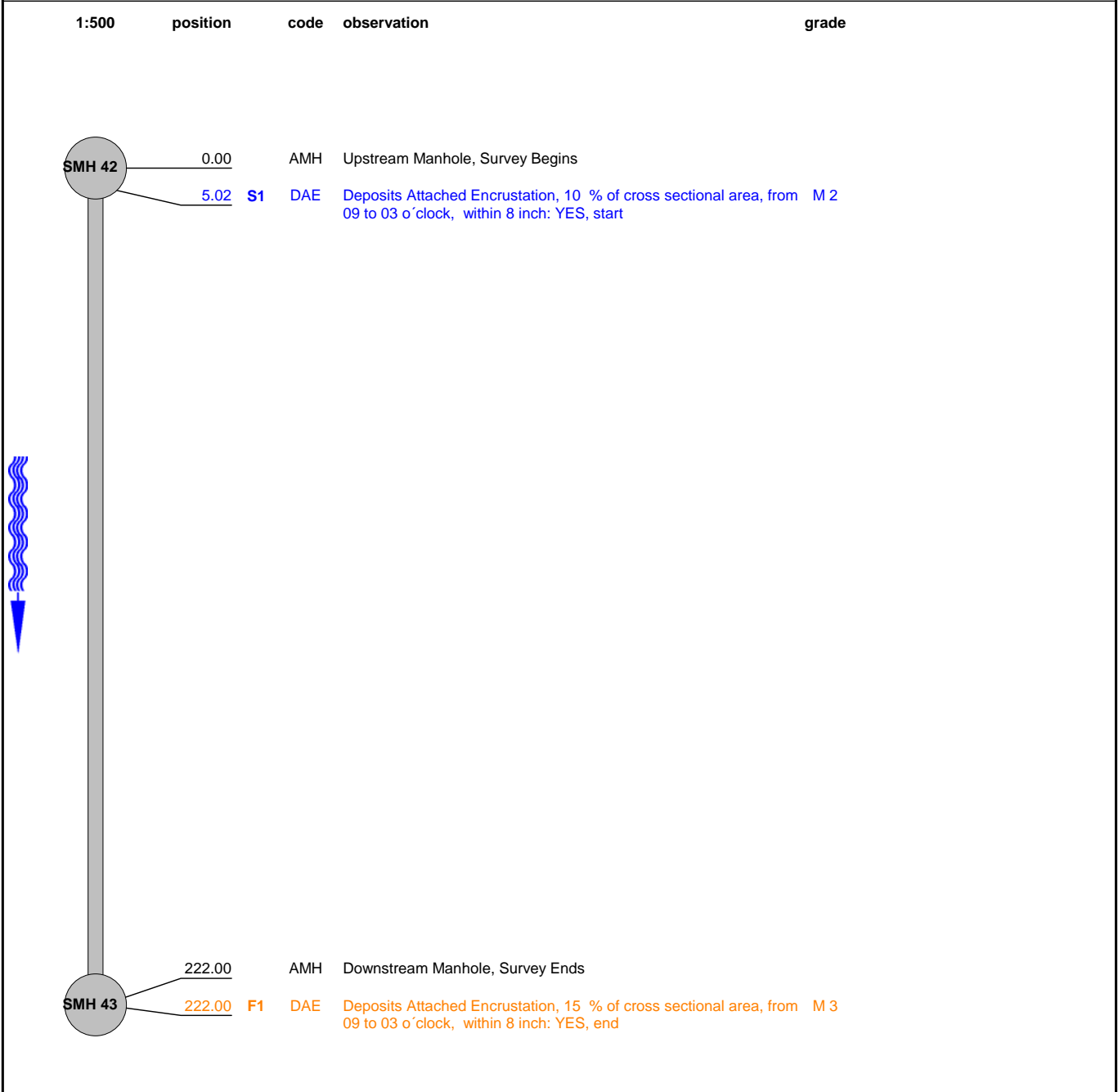
Inspection report

Date: 09/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 49	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 42
City: FRANKLIN MA	Year Renewed:	End MH: SMH 43
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090414	Total length surveyed: 222 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	312G	0	87	87	0	2.02	2.02



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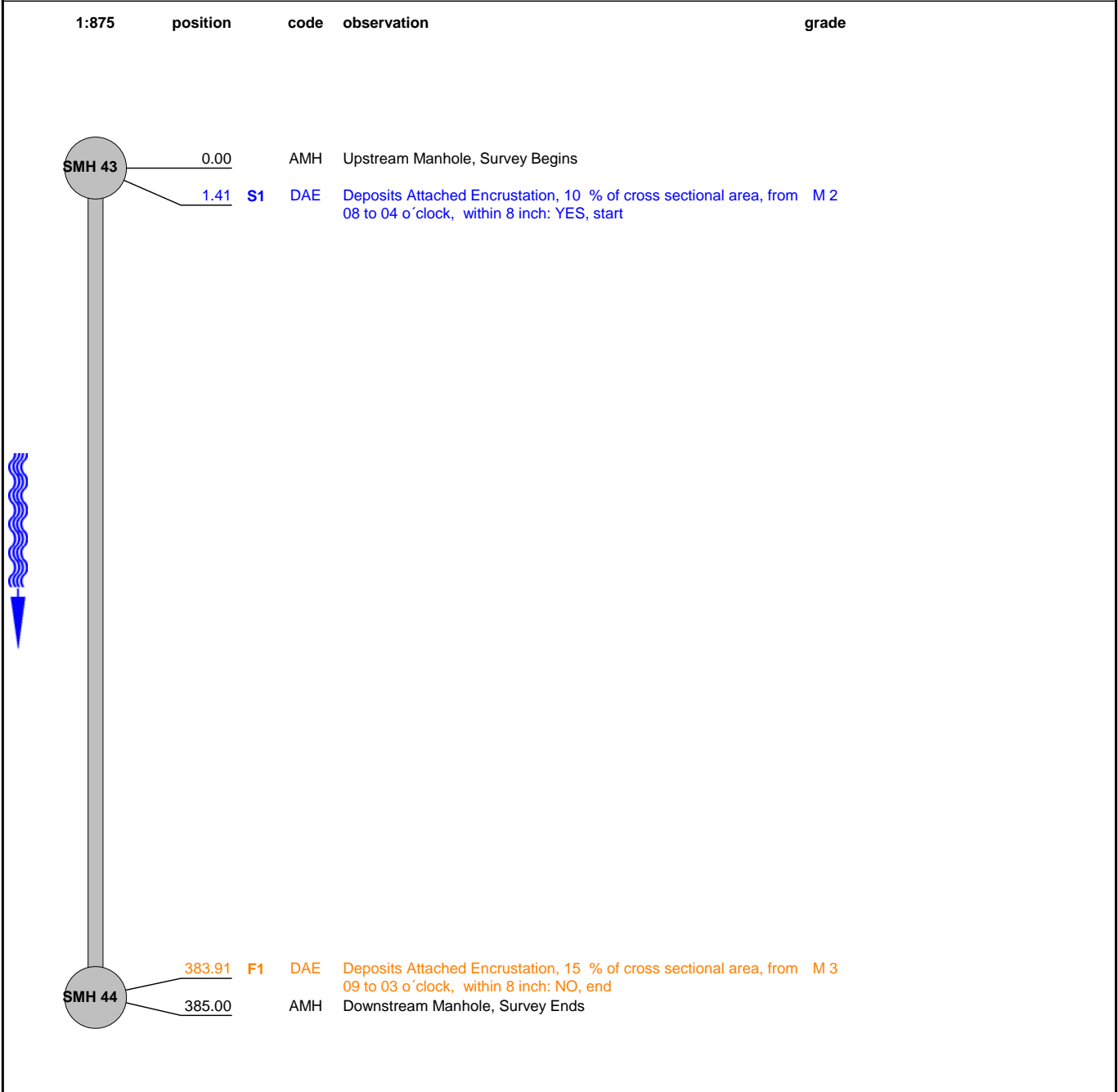
Inspection report

Date: 09/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 50	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 43
City: FRANKLIN MA	Year Renewed:	End MH: SMH 44
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090414	Total length surveyed: 385 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	312N	0	153	153	0	2.01	2.01



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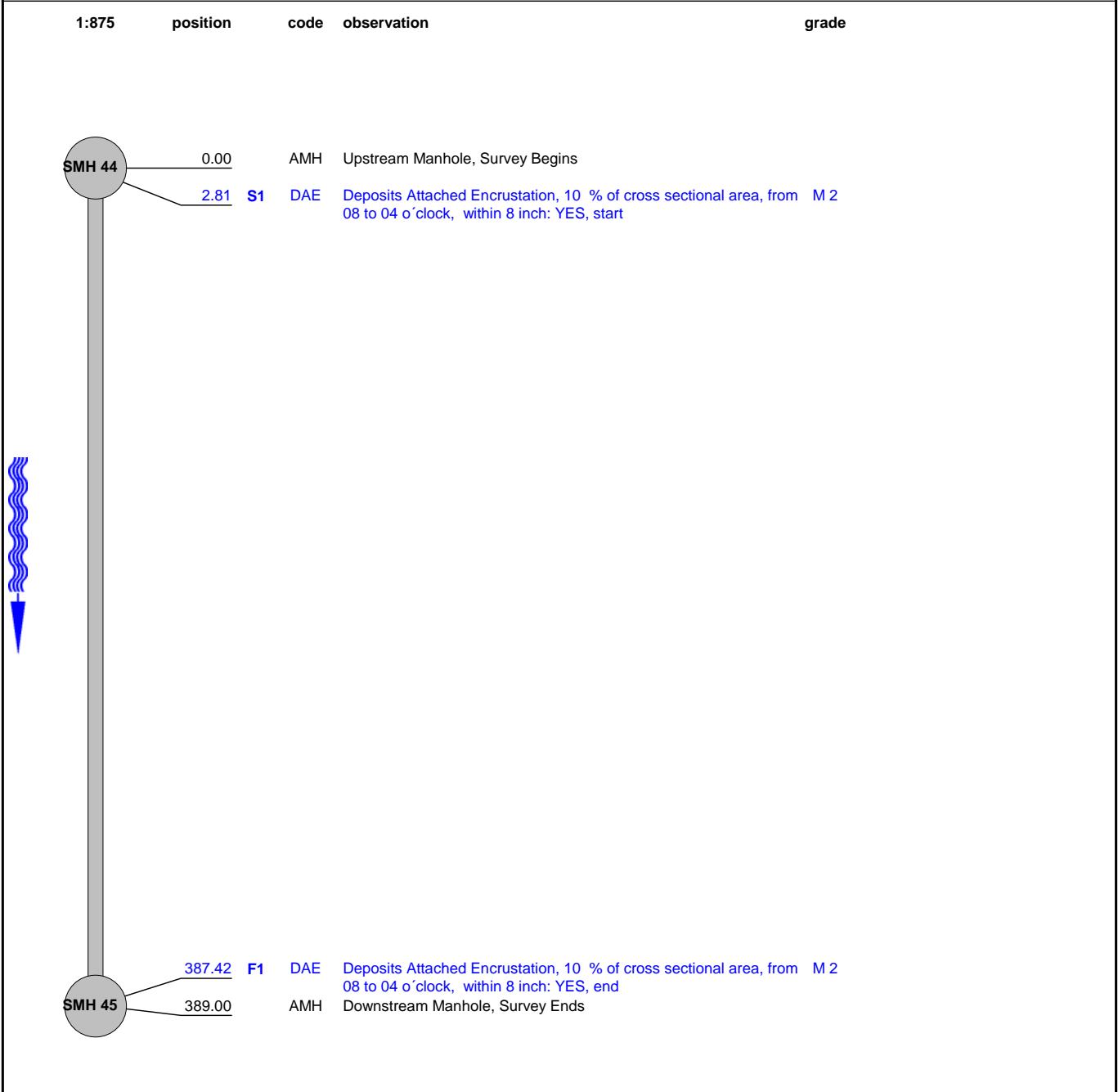
Inspection report

Date: 09/04/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 51	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 44
City: FRANKLIN MA	Year Renewed:	End MH: SMH 45
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090414	Total length surveyed: 389 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2N00	0	154	154	0	2	2



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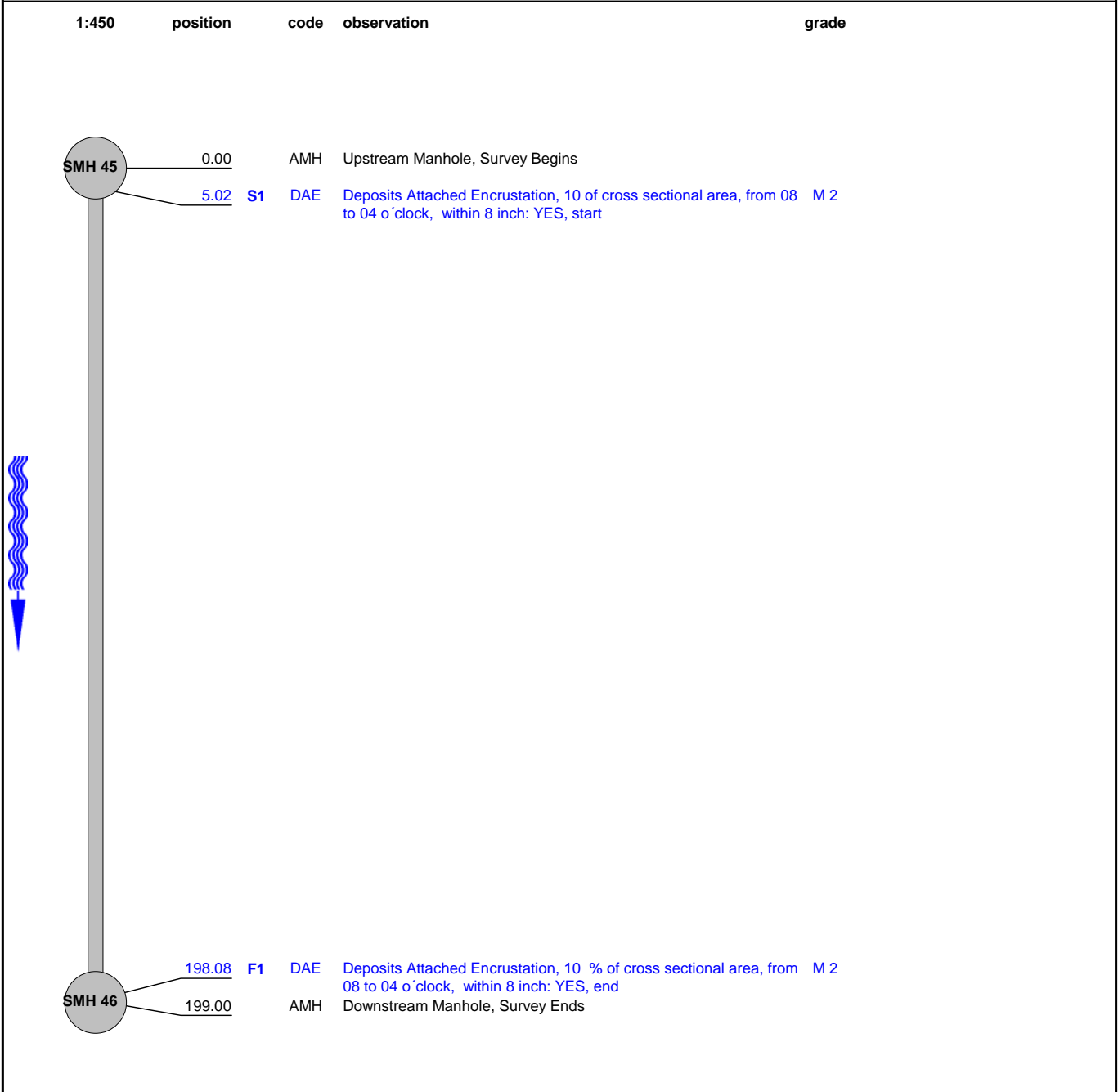
Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 52	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 45
City: FRANKLIN MA	Year Renewed:	End MH: SMH 46
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 199 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: CAS Cast Iron Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2F00	0	78	78	0	2	2



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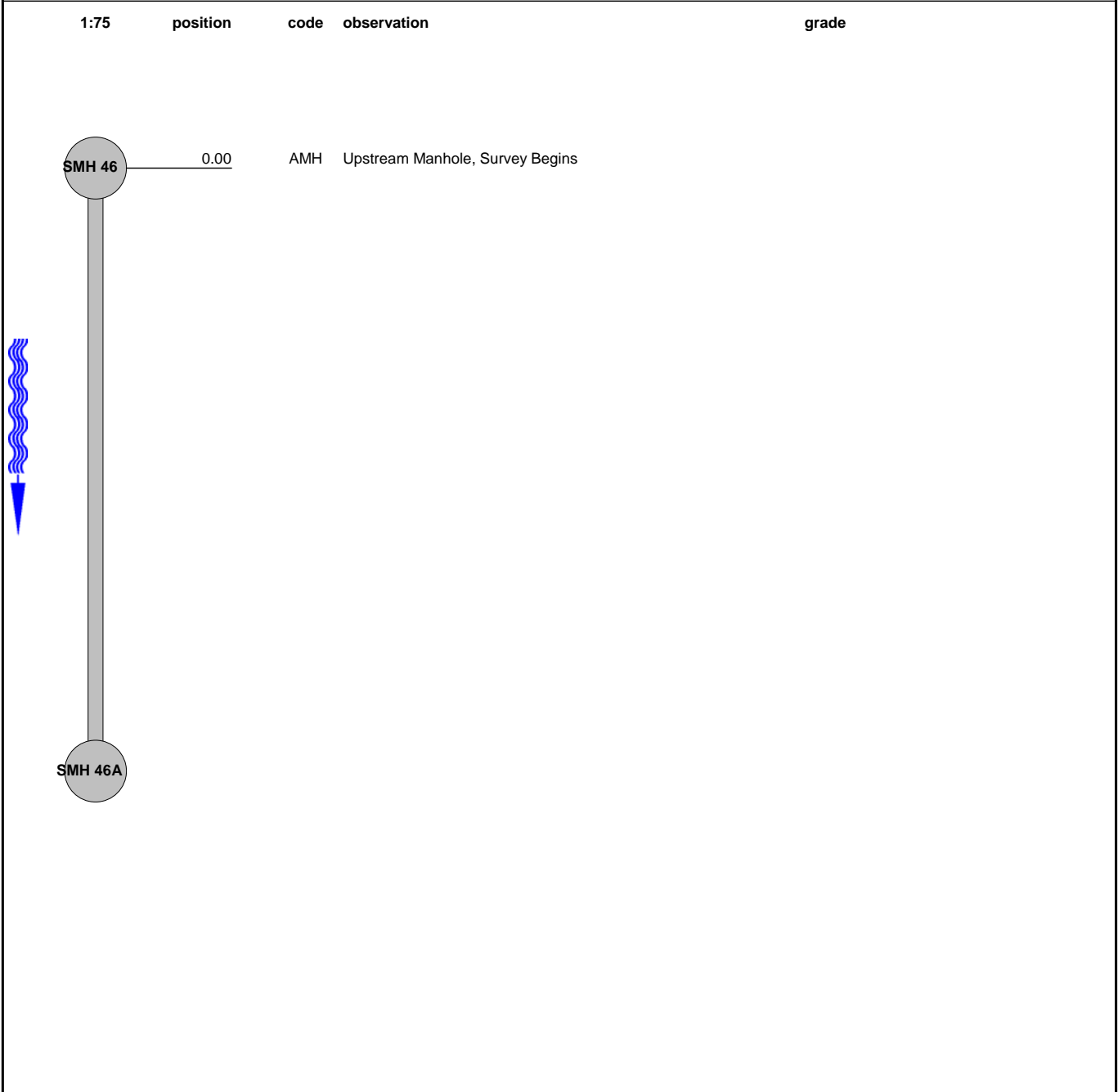
Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 53	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: D Using Jetter	Start MH: SMH 46
City: FRANKLIN MA	Year Renewed:	End MH: SMH 46A
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 24 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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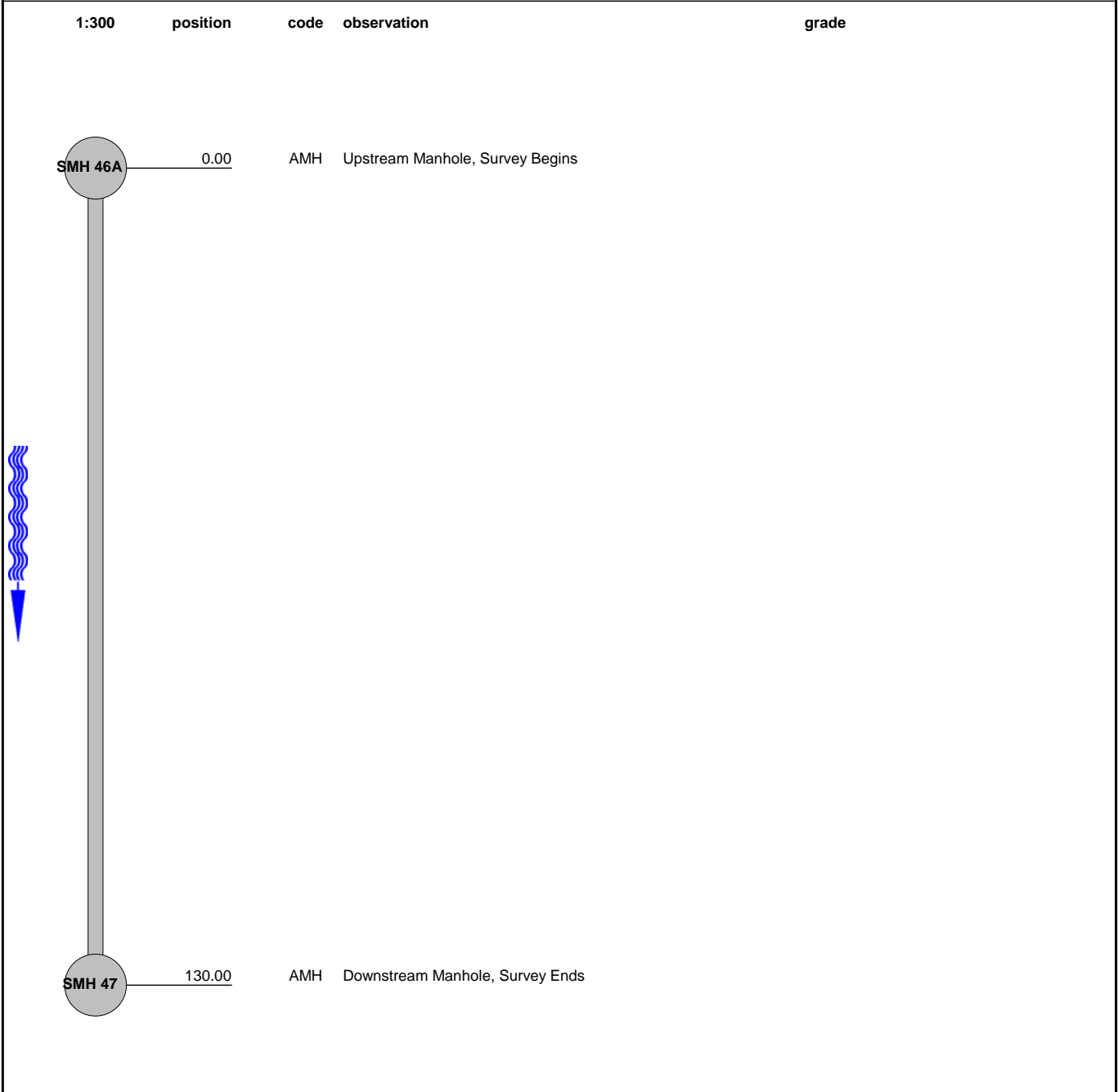
Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 54	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 46A
City: FRANKLIN MA	Year Renewed:	End MH: SMH 47
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 130 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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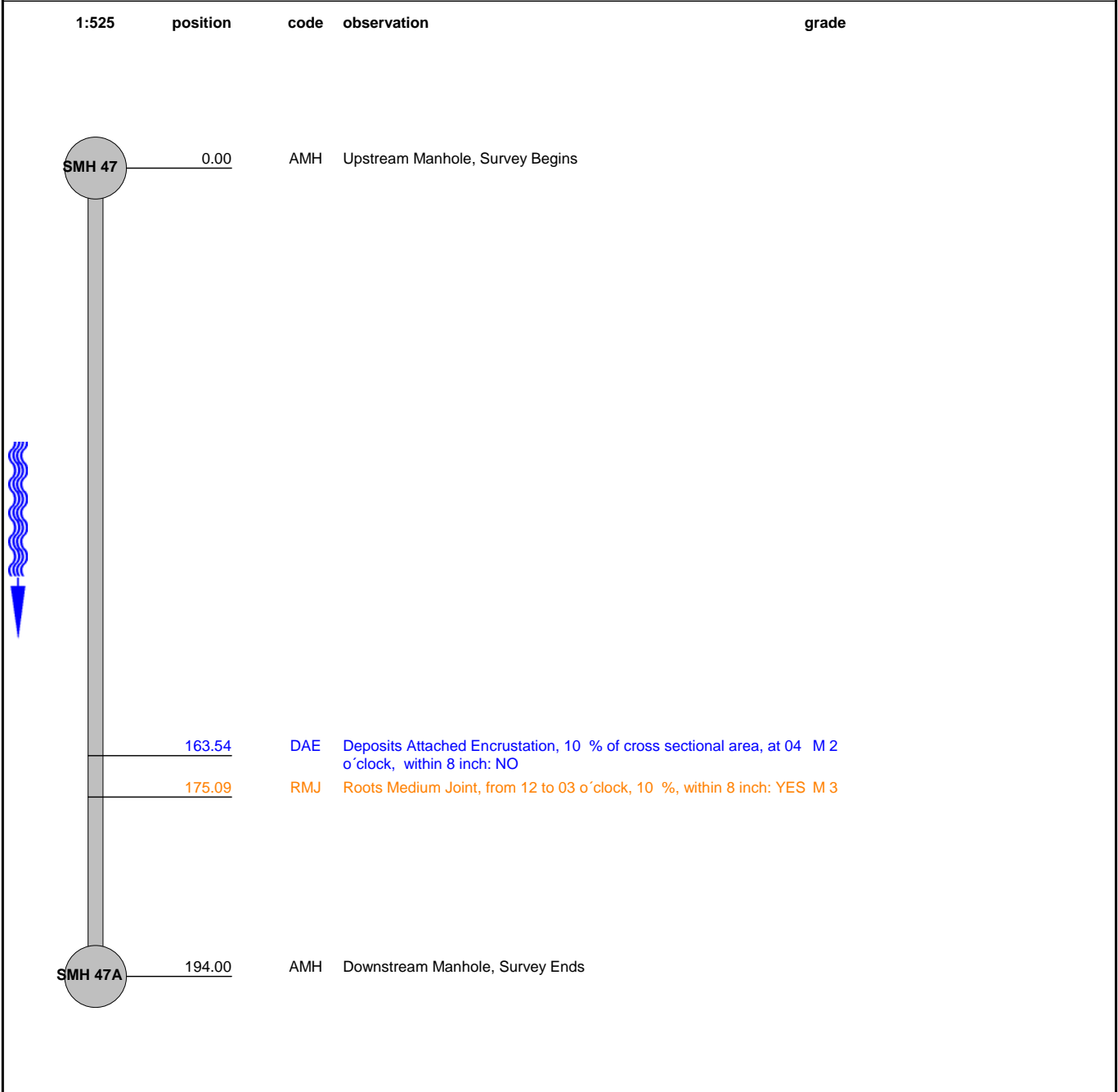
Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 55	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 47
City: FRANKLIN MA	Year Renewed:	End MH: SMH 47A
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 194 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3121	0	5	5	0	2.5	2.5



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Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 56	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 47A
City: FRANKLIN MA	Year Renewed:	End MH: SMH 48
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 95 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: VCP Vitrified Clay Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:

1:225	position	code	observation	grade
	0.00	AMH	Upstream Manhole, Survey Begins	
	17.87	RFJ	Roots Fine Joint, at 07 o'clock, within 8 inch: YES	M 1
	18.17	RFJ	Roots Fine Joint, from 01 to 03 o'clock, within 8 inch: YES	M 1
	29.92	RFJ	Roots Fine Joint, from 12 to 04 o'clock, within 8 inch: YES	M 1
	43.87	B	Broken, from 03 to 04 o'clock, within 8 inch: YES	S 4
	50.80	RFJ	Roots Fine Joint, at 08 o'clock, within 8 inch: YES	M 1
	58.53	RMJ	Roots Medium Joint, from 03 to 09 o'clock, 10 %, within 8 inch: YES	M 3
	72.79	RFJ	Roots Fine Joint, from 01 to 04 o'clock, within 8 inch: YES	M 1
	80.82	S1 RMJ	Roots Medium Joint, from 09 to 03 o'clock, 15 %, within 8 inch: YES, start	M 3
	91.96	F1 RMJ	Roots Medium Joint, from 09 to 03 o'clock, 10 %, within 8 inch: YES, end	M 3
	95.00	AMH	Downstream Manhole, Survey Ends	

QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	3315	4	14	18	4	1.75	2



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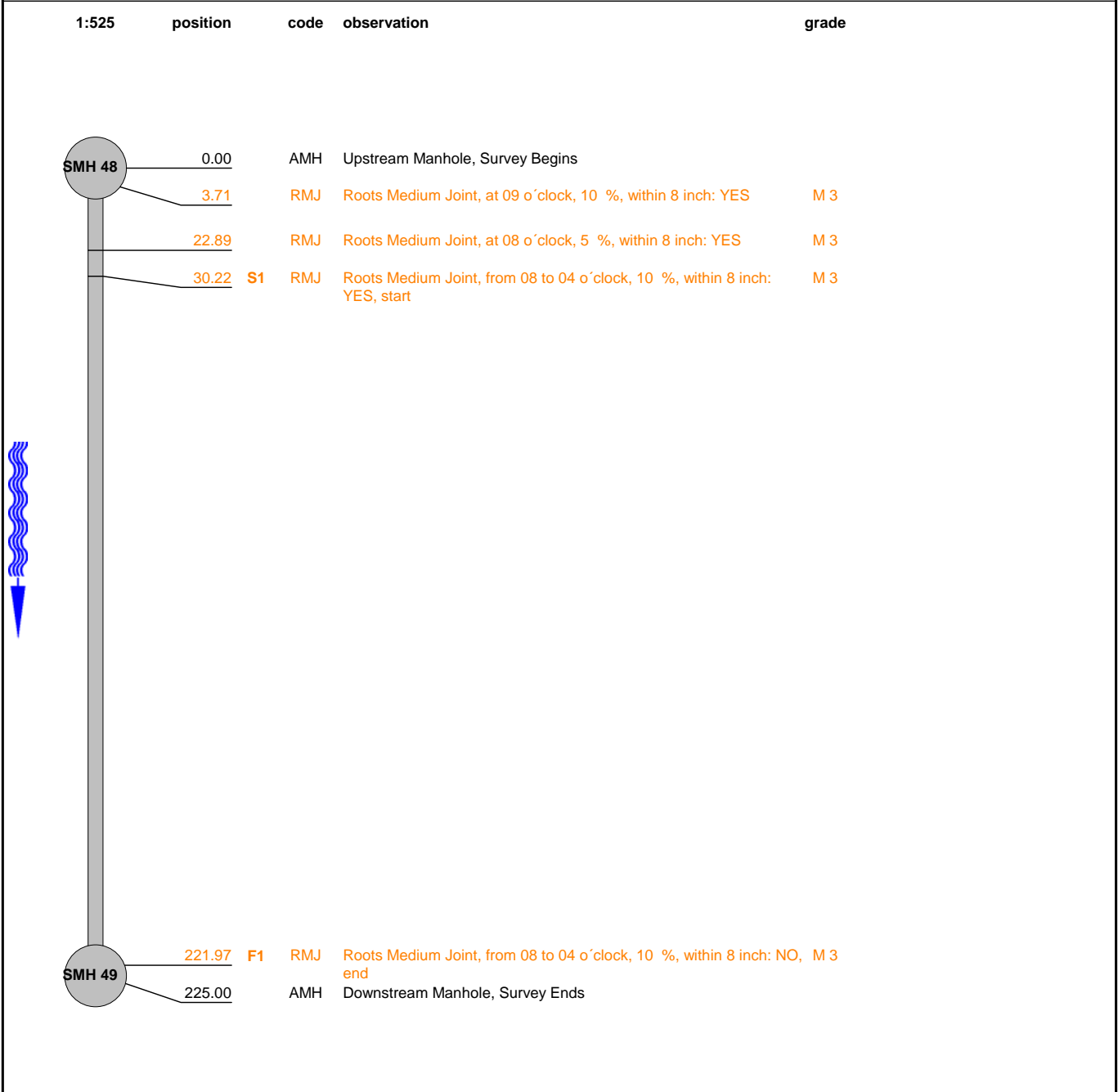
Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 57	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: D Using Jetter	Start MH: SMH 48
City: FRANKLIN MA	Year Renewed:	End MH: SMH 49
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 225 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: VCP Vitrified Clay Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3G00	0	120	120	0	3	3



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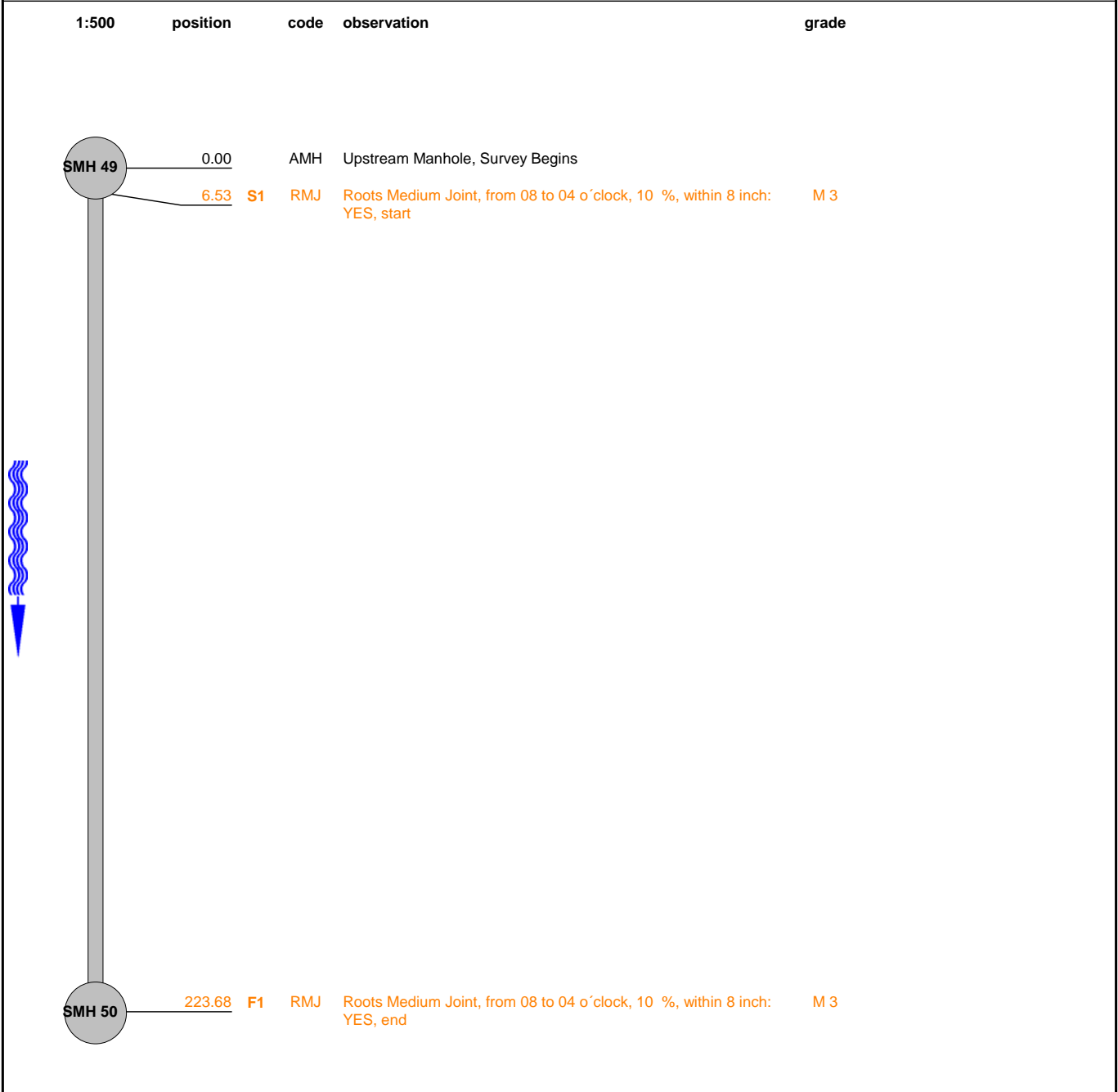
Inspection report

Date: 09/05/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 58	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 49
City: FRANKLIN MA	Year Renewed:	End MH: SMH 50
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090514	Total length surveyed: 224 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: VCP Vitrified Clay Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3G00	0	129	129	0	3	3



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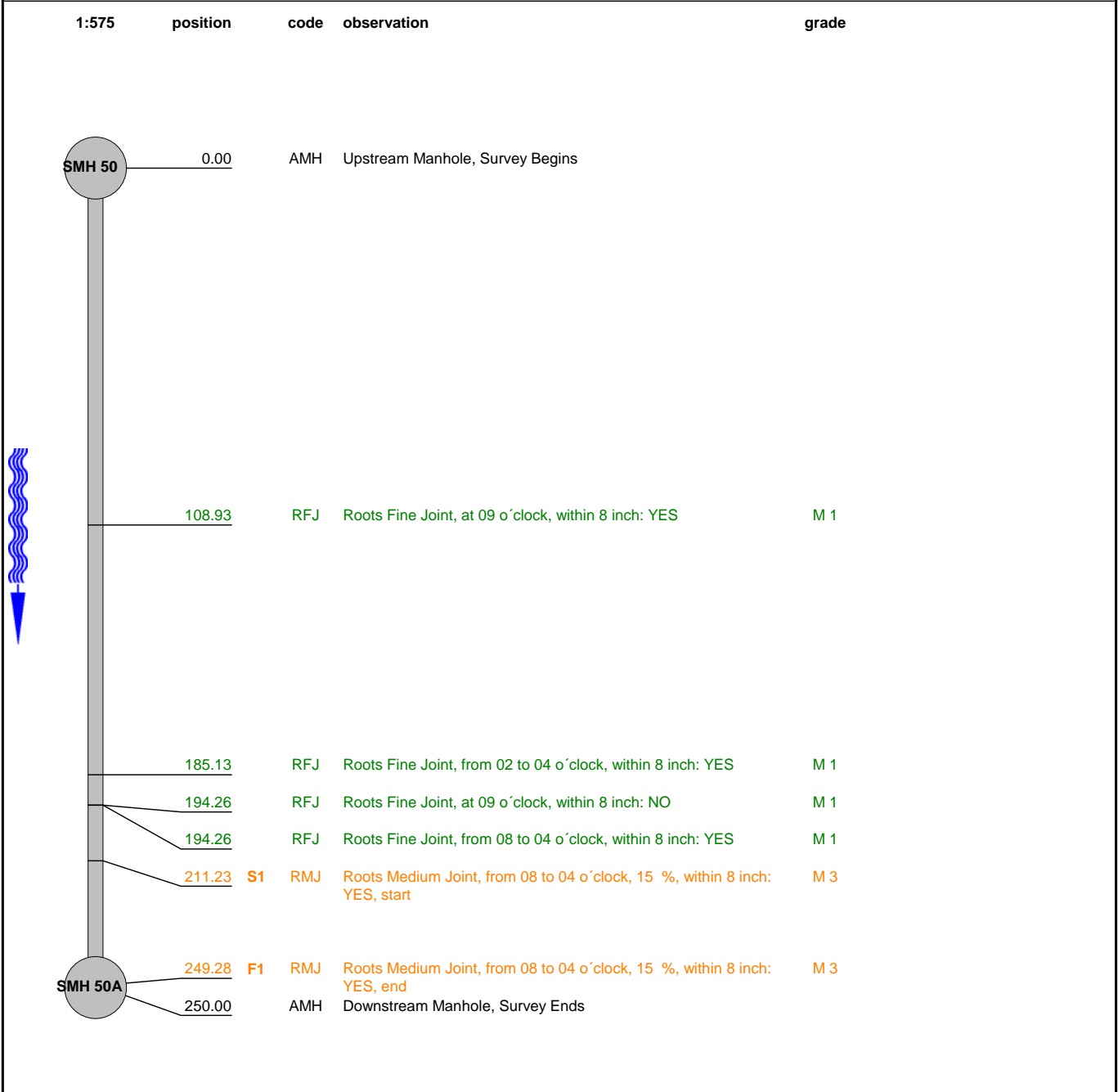
Inspection report

Date: 09/08/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 59	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 50
City: FRANKLIN MA	Year Renewed:	End MH: SMH 50A
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090814	Total length surveyed: 250 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: VCP Vitrified Clay Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3814	0	28	28	0	2.33	2.33



The Environmental Protection Specialists

National Water Main Cleaning Co.
Canton, MA 02021
Norfolk County
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Inspection report

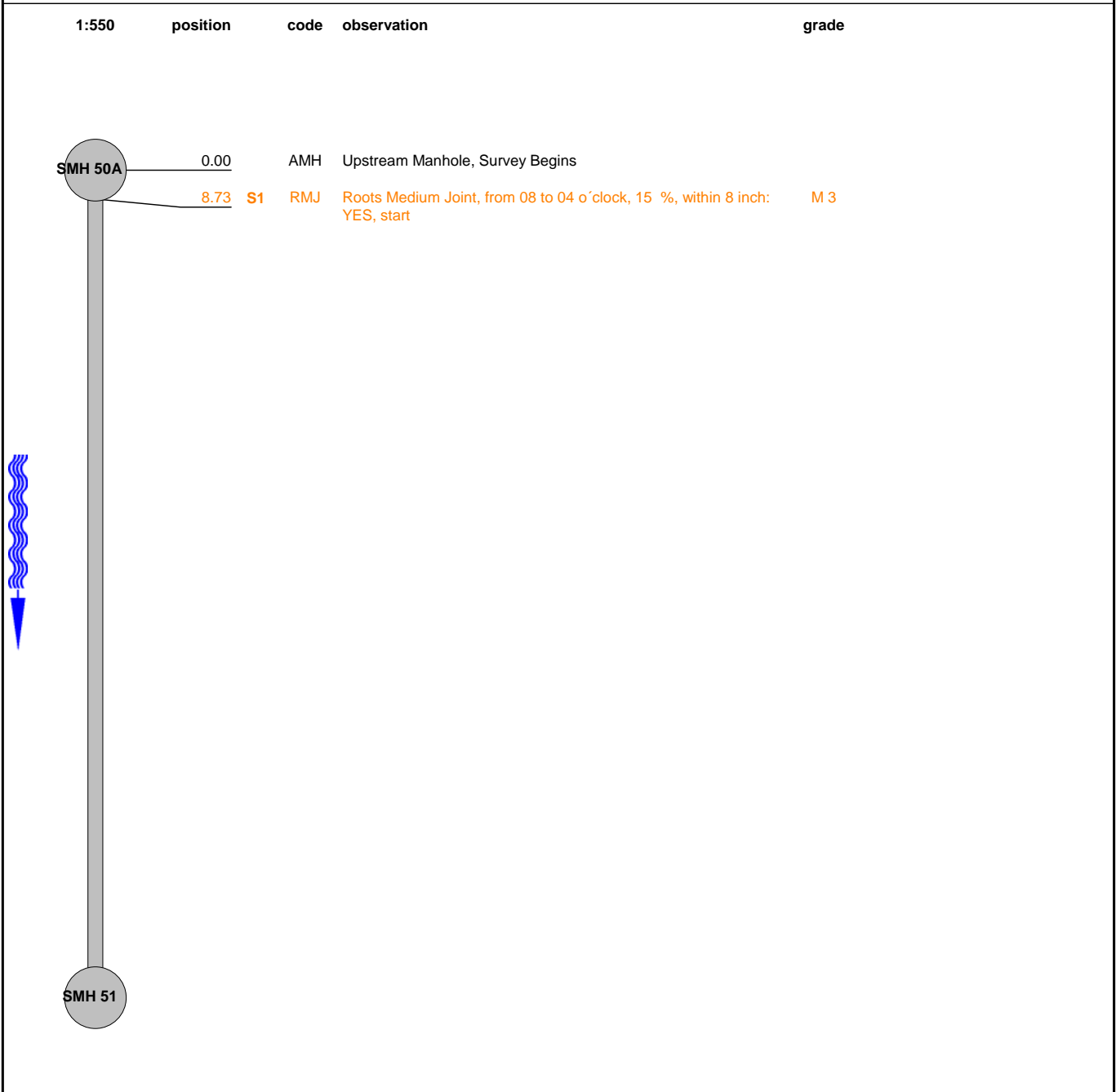
Date: 09/08/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 60	PSR:
Total Length of Section:	Survey Customer:	Job #:	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 50A
City: FRANKLIN MA	Year Renewed:	End MH: SMH 51
Location Code: D Easement/Right of Way	Tape/Media #: TV41-090814	Total length surveyed: 242 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: VCP Vitrified Clay Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:

Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	3H00	0	141	141	0	3	3



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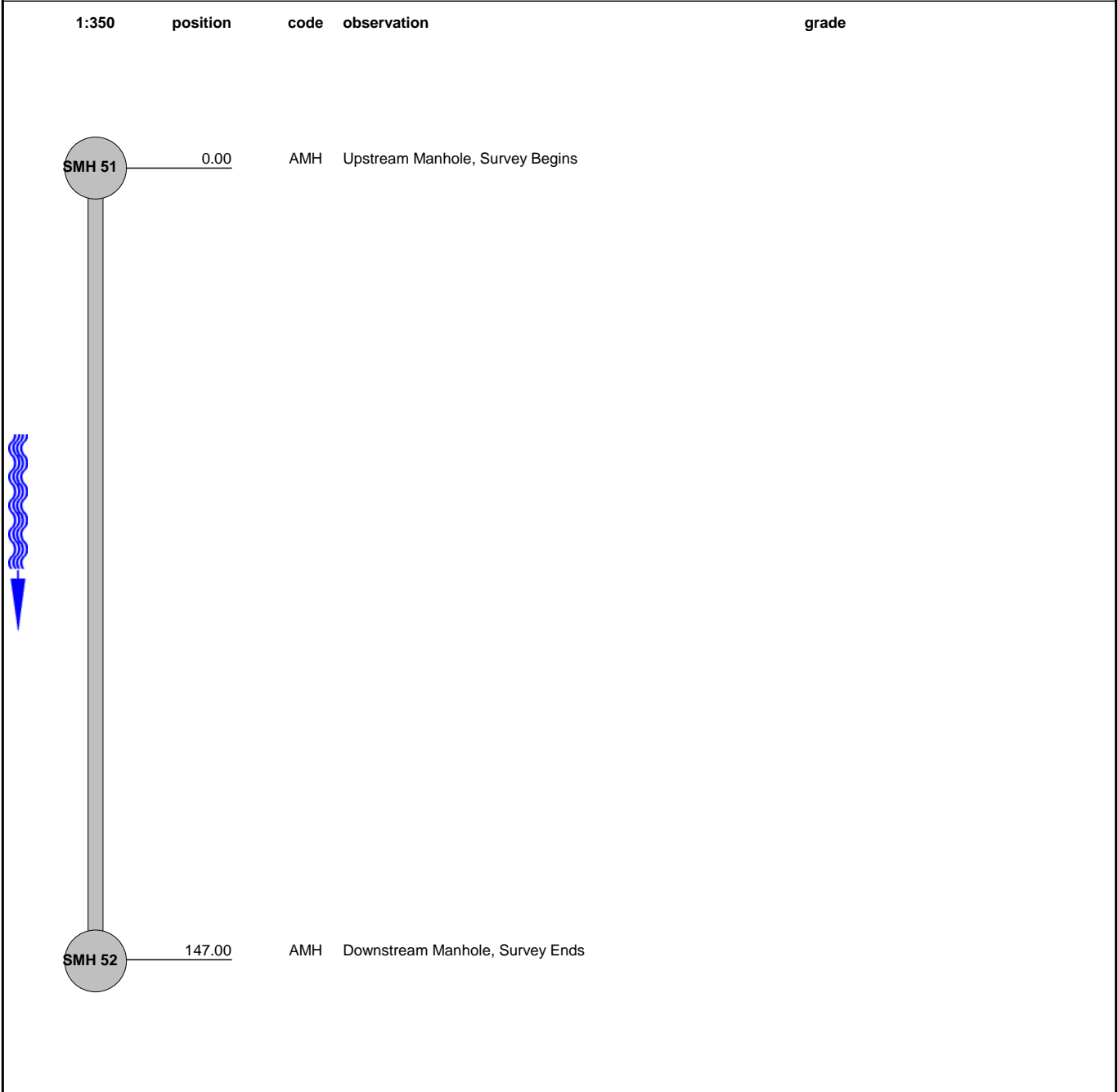
Inspection report

Date: 09/09/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 61	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTOR	Flow Control: D Using Jetter	Start MH: SMH 51
City: FRANKLIN MA	Year Renewed:	End MH: SMH 52
Location Code: E Woods	Tape/Media #: TV41-090914	Total length surveyed: 147 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0	0	0	0	0	0



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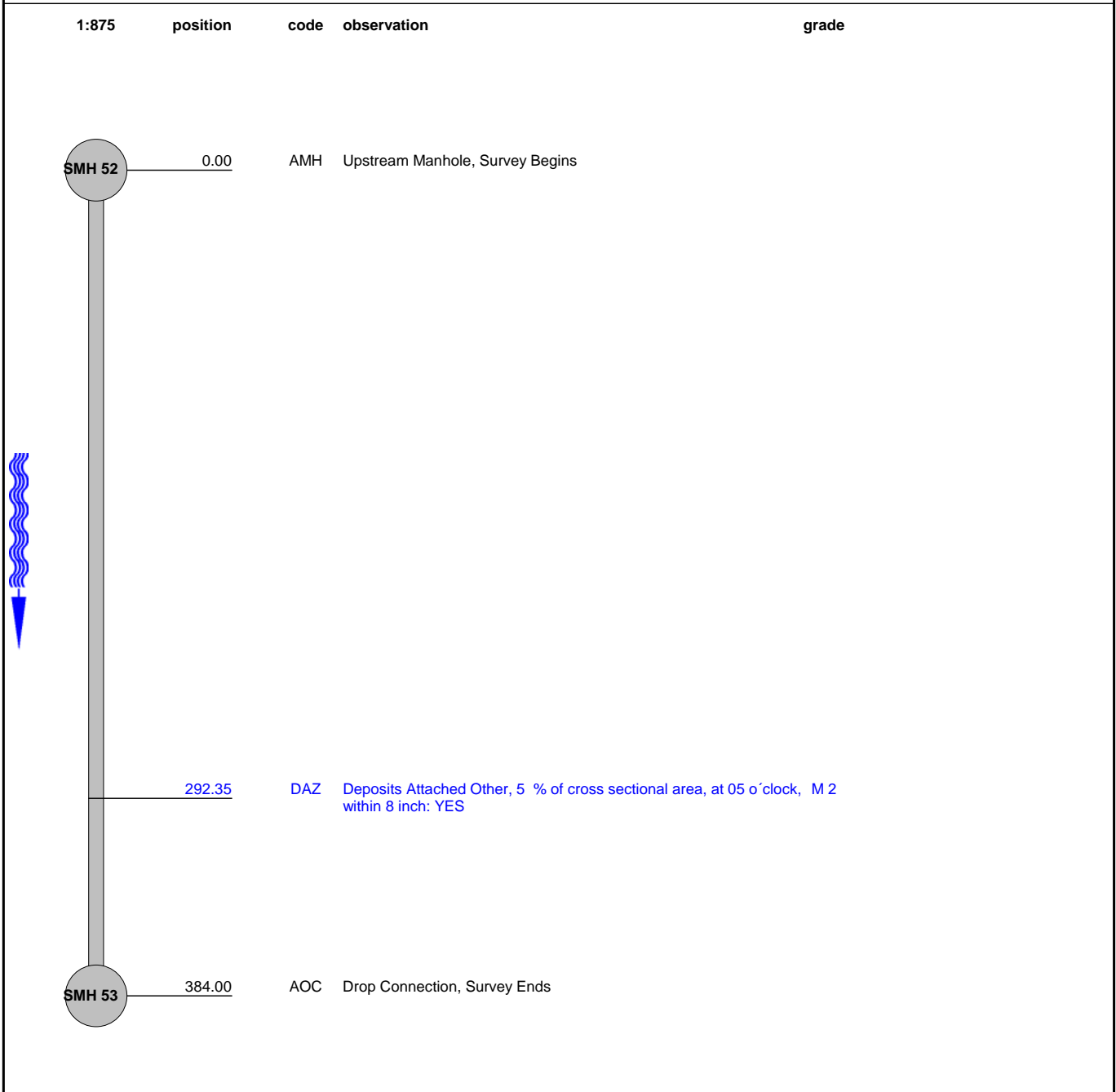
Inspection report

Date: 09/09/2014	P.O.# / WO.#:	Weather: 1 Dry	Surveyed By: G.DELUCA	section number: 62	PSR:
Total Length of Section:	Survey Customer:	Job #: ARC005-4	Clean Date:	Pre-Cleaned: H Heavy Cleaning	rate:

Street: BEAVER ST INTERCEPTER	Flow Control: D Using Jetter	Start MH: SMH 52
City: FRANKLIN MA	Year Renewed:	End MH: SMH 53
Location Code: E Woods	Tape/Media #: TV41-090914	Total length surveyed: 384 ft

purpose of Survey: A Maintenance Related	Shape/Size: C Circular 24/24
Use: SS Sanitary	Material: RCP Reinforced Concrete Pipe Joint length:
Basin:	Lining:
	Job Name:

Comment:
Location details:



QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2100	0	2	2	0	2	2