

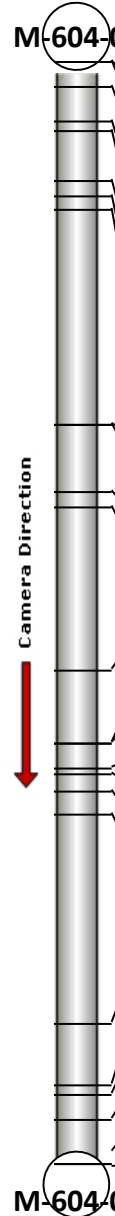
## Profile/Photo Observation Report

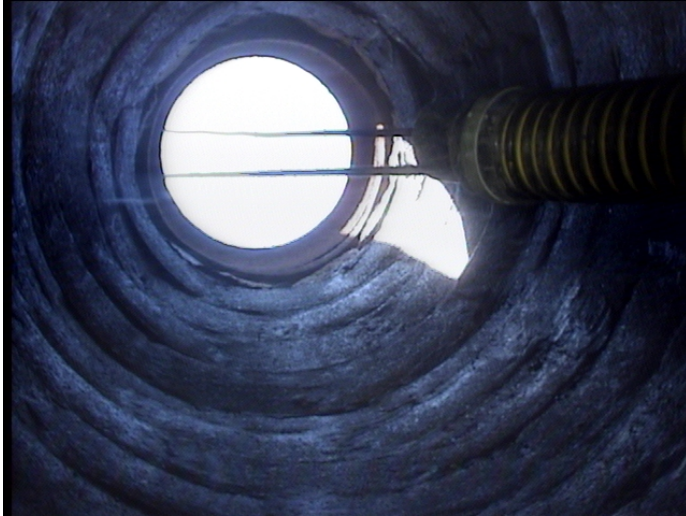


|                   |                       |             |                       |            |                      |
|-------------------|-----------------------|-------------|-----------------------|------------|----------------------|
| Date:             | <b>04/12/2018</b>     | Weather:    |                       | Coding:    | <b>PACP 6.0</b>      |
| Pipe Length (ft): |                       | Owner:      | <b>City of Hobart</b> | Pre Clean: | <b>Not Known</b>     |
| P.O.#:            | <b>242</b>            | Surveyor:   | <b>B. Helbling</b>    | PSR:       | <b>P-604-057-058</b> |
| Customer:         | <b>City of Hobart</b> | Clean Date: |                       | Shape:     | <b>C</b>             |

|                   |                                |                             |                       |
|-------------------|--------------------------------|-----------------------------|-----------------------|
| Street:           | <b>North Conneticut Street</b> | Flow Control:               | <b>Not Controlled</b> |
| City:             | <b>Hobart, IN</b>              | Year Renewed:               |                       |
| Location:         | <b>Light Highway</b>           | Tape/Media #:               | <b>DEP242</b>         |
| Purpose:          | <b>Routine Assessment</b>      | Dia/Height:                 | <b>18"</b>            |
| Use:              | <b>Sanitary</b>                | Material:                   | <b>VCP</b>            |
| Drain Area:       |                                | Lining:                     |                       |
| Category:         | <b>NA</b>                      |                             |                       |
| Comment:          | <b>YES501824 Submital 2</b>    |                             |                       |
| Location Details: |                                | Direction of Survey:        | <b>Downstream</b>     |
| US MH:            | <b>M-604-057</b>               | DS MH:                      | <b>M-604-058</b>      |
|                   |                                | Total Length Surveyed (ft): | <b>146.9</b>          |

|                   |             |                   |             |                    |              |
|-------------------|-------------|-------------------|-------------|--------------------|--------------|
| O&M Index:        | <b>1.94</b> | O&M Quick:        | <b>322A</b> | O&M Rating:        | <b>35.00</b> |
| Structural Index: | <b>2.70</b> | Structural Quick: | <b>3723</b> | Structural Rating: | <b>27.00</b> |
| Overall Index:    | <b>2.21</b> | Overall Quick:    | <b>392B</b> | Overall Rating:    | <b>62.00</b> |

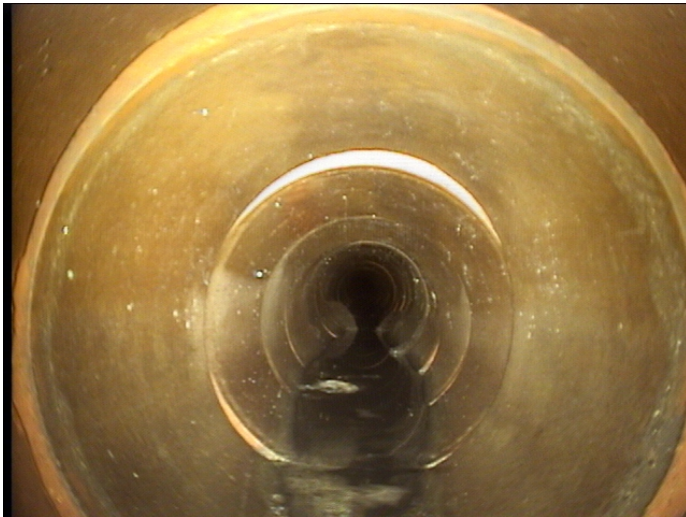
|  | Position | Code     | Observation            | Video (sec) | Grade |
|--|----------|----------|------------------------|-------------|-------|
|  |          |          |                        |             |       |
|  | .0       | AMH      | Manhole                | 0           | NA    |
|  | .0       | MWL      | Water Level            | 14          | NA    |
|  | 4.8      | RFJ      | Roots Fine Joint       | 50          | M 1   |
|  | 7.8      | CL(S01)  | Crack Longitudinal     | 92          | S 2   |
|  | 9.2      | RFJ      | Roots Fine Joint       | 136         | M 1   |
|  | 17.5     | CL(F01)  | Crack Longitudinal     | 187         | S 2   |
|  | 19.3     | TFC      | Tap Factory Capped     | 204         | NA    |
|  | 21.3     | TF       | Tap Factory            | 232         | NA    |
|  | 49.9     | TBD      | Tap Break-in Defective | 326         | M 3   |
|  | 49.9     | RFL      | Roots Fine Lateral     | 411         | M 1   |
|  | 58.7     | TFC      | Tap Factory Capped     | 540         | NA    |
|  | 60.9     | TF       | Tap Factory            | 614         | NA    |
|  | 82.5     | DSF(S02) | Deposits Settled Fine  | 663         | M 2   |
|  | 92.2     | TBA      | Tap Break-in Active    | 712         | NA    |
|  | 92.2     | CL       | Crack Longitudinal     | 744         | S 2   |
|  | 95.5     | FL       | Fracture Longitudinal  | 781         | S 3   |
|  | 96.3     | TFC      | Tap Factory Capped     | 806         | NA    |
|  | 98.6     | TF       | Tap Factory            | 841         | NA    |
|  | 101.8    | FL(S03)  | Fracture Longitudinal  | 886         | S 3   |
|  | 129.4    | FL(F03)  | Fracture Longitudinal  | 959         | S 3   |
|  | 137.8    | TFC      | Tap Factory Capped     | 989         | NA    |
|  | 138.9    | RMJ      | Roots Medium Joint     | 1043        | M 3   |
|  | 142.3    | TF       | Tap Factory            | 1125        | NA    |
|  | 146.6    | DSF(F02) | Deposits Settled Fine  | 1243        | M 2   |
|  | 146.6    | MSA      | Abandoned Survey       | 1262        | NA    |
|  |          |          |                        |             |       |



Code: **AMH**  
Description: **Manhole**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **M-604-057**

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Code: **MWL**  
Description: **Water Level**

Distance (ft): **.0**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From:  
Clock To:  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **RFJ**  
Description: **Roots Fine Joint**

Distance (ft): **4.8**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **3**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

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Code: **CL**  
Description: **Crack Longitudinal**

Distance (ft): **7.8**  
Structural Grade: **2**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S01**  
Within 8" of Joint: **NO**  
Remarks:

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|                     |                         |
|---------------------|-------------------------|
| Code:               | <b>RFJ</b>              |
| Description:        | <b>Roots Fine Joint</b> |
| Distance (ft):      | <b>9.2</b>              |
| Structural Grade:   | <b>0</b>                |
| O&M Grade:          | <b>1</b>                |
| Clock Start/From:   | <b>4</b>                |
| Clock To:           | <b>8</b>                |
| 1st Value:          |                         |
| 2nd Value:          |                         |
| Value Percent:      |                         |
| Continuous Index:   |                         |
| Within 8" of Joint: | <b>YES</b>              |
| Remarks:            |                         |

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|                     |                           |
|---------------------|---------------------------|
| Code:               | <b>CL</b>                 |
| Description:        | <b>Crack Longitudinal</b> |
| Distance (ft):      | <b>17.5</b>               |
| Structural Grade:   | <b>2</b>                  |
| O&M Grade:          | <b>0</b>                  |
| Clock Start/From:   | <b>12</b>                 |
| Clock To:           |                           |
| 1st Value:          |                           |
| 2nd Value:          |                           |
| Value Percent:      |                           |
| Continuous Index:   | <b>F01</b>                |
| Within 8" of Joint: | <b>NO</b>                 |
| Remarks:            |                           |

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|                     |                           |
|---------------------|---------------------------|
| Code:               | <b>TFC</b>                |
| Description:        | <b>Tap Factory Capped</b> |
| Distance (ft):      | <b>19.3</b>               |
| Structural Grade:   | <b>0</b>                  |
| O&M Grade:          | <b>0</b>                  |
| Clock Start/From:   | <b>10</b>                 |
| Clock To:           |                           |
| 1st Value:          | <b>4.000</b>              |
| 2nd Value:          |                           |
| Value Percent:      |                           |
| Continuous Index:   |                           |
| Within 8" of Joint: | <b>NO</b>                 |
| Remarks:            |                           |

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|                     |                    |
|---------------------|--------------------|
| Code:               | <b>TF</b>          |
| Description:        | <b>Tap Factory</b> |
| Distance (ft):      | <b>21.3</b>        |
| Structural Grade:   | <b>0</b>           |
| O&M Grade:          | <b>0</b>           |
| Clock Start/From:   | <b>2</b>           |
| Clock To:           |                    |
| 1st Value:          | <b>4.000</b>       |
| 2nd Value:          |                    |
| Value Percent:      |                    |
| Continuous Index:   |                    |
| Within 8" of Joint: | <b>NO</b>          |
| Remarks:            |                    |

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Code: **TBD**  
Description: **Tap Break-in Defective**

Distance (ft): **49.9**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks: **Defective**

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Code: **RFL**  
Description: **Roots Fine Lateral**

Distance (ft): **49.9**  
Structural Grade: **0**  
O&M Grade: **1**  
Clock Start/From: **10**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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|                     |                           |
|---------------------|---------------------------|
| Code:               | <b>TFC</b>                |
| Description:        | <b>Tap Factory Capped</b> |
| Distance (ft):      | <b>58.7</b>               |
| Structural Grade:   | <b>0</b>                  |
| O&M Grade:          | <b>0</b>                  |
| Clock Start/From:   | <b>10</b>                 |
| Clock To:           |                           |
| 1st Value:          | <b>4.000</b>              |
| 2nd Value:          |                           |
| Value Percent:      |                           |
| Continuous Index:   |                           |
| Within 8" of Joint: | <b>NO</b>                 |
| Remarks:            |                           |

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|                     |                    |
|---------------------|--------------------|
| Code:               | <b>TF</b>          |
| Description:        | <b>Tap Factory</b> |
| Distance (ft):      | <b>60.9</b>        |
| Structural Grade:   | <b>0</b>           |
| O&M Grade:          | <b>0</b>           |
| Clock Start/From:   | <b>2</b>           |
| Clock To:           |                    |
| 1st Value:          | <b>4.000</b>       |
| 2nd Value:          |                    |
| Value Percent:      |                    |
| Continuous Index:   |                    |
| Within 8" of Joint: | <b>NO</b>          |
| Remarks:            |                    |

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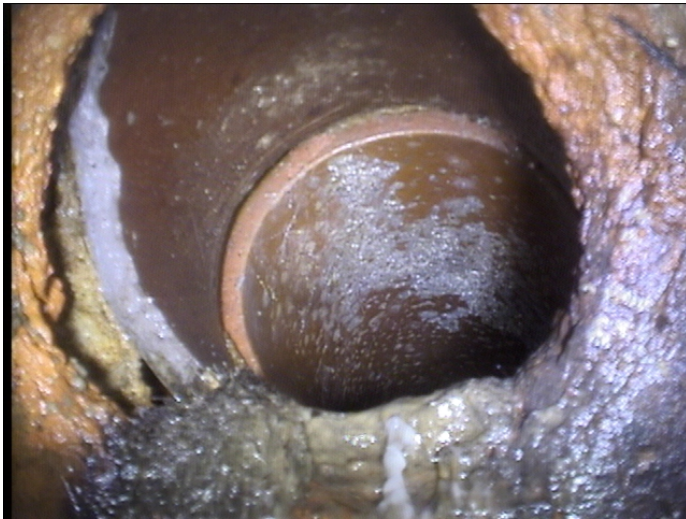




Code: **DSF**  
Description: **Deposits Settled Fine**

Distance (ft): **82.5**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **5**  
Clock To: **7**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **S02**  
Within 8" of Joint: **NO**  
Remarks:

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Code: **TBA**  
Description: **Tap Break-in Active**

Distance (ft): **92.2**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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|                     |                           |
|---------------------|---------------------------|
| Code:               | <b>CL</b>                 |
| Description:        | <b>Crack Longitudinal</b> |
| Distance (ft):      | <b>92.2</b>               |
| Structural Grade:   | <b>2</b>                  |
| O&M Grade:          | <b>0</b>                  |
| Clock Start/From:   | <b>9</b>                  |
| Clock To:           |                           |
| 1st Value:          |                           |
| 2nd Value:          |                           |
| Value Percent:      |                           |
| Continuous Index:   |                           |
| Within 8" of Joint: | <b>NO</b>                 |
| Remarks:            |                           |

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|                     |                              |
|---------------------|------------------------------|
| Code:               | <b>FL</b>                    |
| Description:        | <b>Fracture Longitudinal</b> |
| Distance (ft):      | <b>95.5</b>                  |
| Structural Grade:   | <b>3</b>                     |
| O&M Grade:          | <b>0</b>                     |
| Clock Start/From:   | <b>12</b>                    |
| Clock To:           |                              |
| 1st Value:          |                              |
| 2nd Value:          |                              |
| Value Percent:      |                              |
| Continuous Index:   |                              |
| Within 8" of Joint: | <b>NO</b>                    |
| Remarks:            |                              |

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Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **96.3**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **TF**  
Description: **Tap Factory**

Distance (ft): **98.6**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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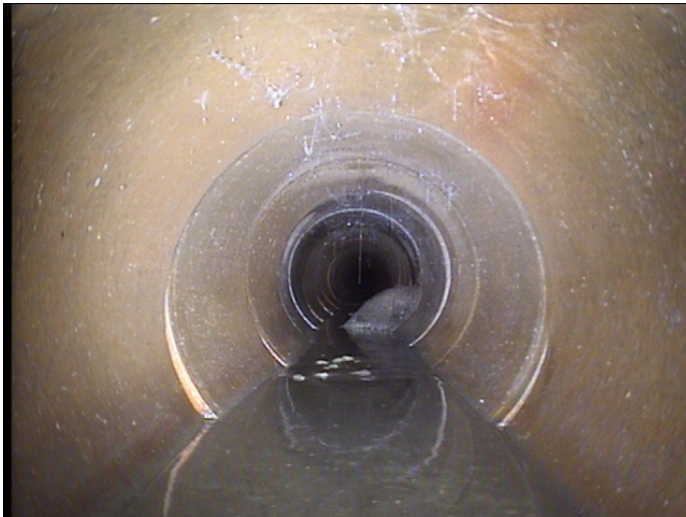




Code: **FL**  
Description: **Fracture Longitudinal**

Distance (ft): **101.8**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **S03**  
Within 8" of Joint: **NO**  
Remarks:

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Code: **FL**  
Description: **Fracture Longitudinal**

Distance (ft): **129.4**  
Structural Grade: **3**  
O&M Grade: **0**  
Clock Start/From: **12**  
Clock To:  
1st Value:  
2nd Value:  
Value Percent:  
Continuous Index: **F03**  
Within 8" of Joint: **NO**  
Remarks:

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Code: **TFC**  
Description: **Tap Factory Capped**

Distance (ft): **137.8**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **10**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

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Code: **RMJ**  
Description: **Roots Medium Joint**

Distance (ft): **138.9**  
Structural Grade: **0**  
O&M Grade: **3**  
Clock Start/From: **3**  
Clock To: **5**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index:  
Within 8" of Joint: **YES**  
Remarks:

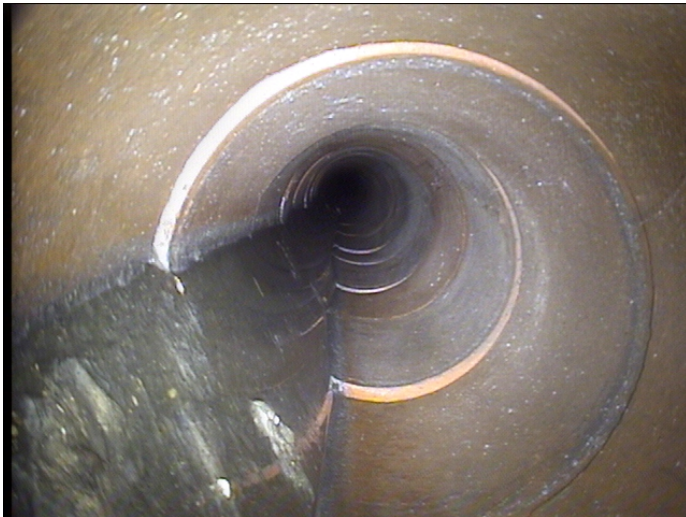
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Code: **TF**  
Description: **Tap Factory**

Distance (ft): **142.3**  
Structural Grade: **0**  
O&M Grade: **0**  
Clock Start/From: **2**  
Clock To:  
1st Value: **4.000**  
2nd Value:  
Value Percent:  
Continuous Index:  
Within 8" of Joint: **NO**  
Remarks:

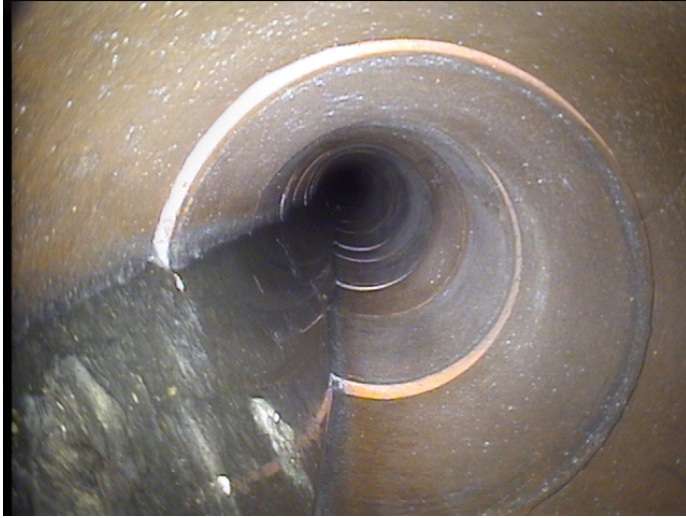
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Code: **DSF**  
Description: **Deposits Settled Fine**

Distance (ft): **146.6**  
Structural Grade: **0**  
O&M Grade: **2**  
Clock Start/From: **5**  
Clock To: **7**  
1st Value:  
2nd Value:  
Value Percent: **5.000**  
Continuous Index: **F02**  
Within 8" of Joint: **NO**  
Remarks:

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|                     |                         |
|---------------------|-------------------------|
| Code:               | <b>MSA</b>              |
| Description:        | <b>Abandoned Survey</b> |
| Distance (ft):      | <b>146.6</b>            |
| Structural Grade:   | <b>0</b>                |
| O&M Grade:          | <b>0</b>                |
| Clock Start/From:   |                         |
| Clock To:           |                         |
| 1st Value:          |                         |
| 2nd Value:          |                         |
| Value Percent:      |                         |
| Continuous Index:   |                         |
| Within 8" of Joint: | <b>NO</b>               |
| Remarks:            | <b>Rolled on roots</b>  |