## PINE STREET WATERLINE REPLACEMENT BRISTOL, VERMONT

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C2.0 SITE DETAILS



**DWSRF LOAN NUMBER:** RF-XXX VTM JOB NO. 22-1.1

JULY, 2022

PROJECT LOCATION: -BRISTOL, VT

## 90% DESIGN PLANS









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| HEIGHT (H) AND WIDTH (B) OF BEARING FACE FOR<br>FITTING TO BE RESTRAINED 3 |                  |                     |      |                     |      |                 |      |                 |      |                     |      |             |      |
|--|------------------|---------------------|------|---------------------|------|-----------------|------|-----------------|------|---------------------|------|-------------|------|
| BEARING FACE<br>MATERIALS <sup>2</sup>                                     | PIPELINE<br>SIZE | 11-1/4° BEND<br>Н В |      | 22-1/2° BEND<br>H B |      | 45° BEND<br>H B |      | 90° BEND<br>H B |      | TEES & PLUGS<br>H B |      | WYES<br>H B |      |
| WELL GRADED SANDS<br>AND GRAVEL  | 4"ø & 6"ø        | 1.30                | 1.30 | 1.30                | 1.30 | 1.30            | 1.95 | 1.65            | 2.60 | 1.30                | 2.30 | 1.30        | 1.95 |
|  | 8"ø              | 1.30                | 1.30 | 1.30                | 1.30 | 1.65            | 2.60 | 1.95            | 3.55 | 1 95                | 2.60 | 1.65        | 2.60 |
|  | 10 <b>"</b> ø    | 1.30                | 1.30 | 1.65                | 1.95 | 1.95            | 3.25 | 2.60            | 4.20 | 2.60                | 2.90 | 1.95        | 3.25 |
|  | 12 <b>"</b> ø    | 1.30                | 1.95 | 1.65                | 2.60 | 2.60            | 3.25 | 2.90            | 5.20 | 2.90                | 3.90 | 2.60        | 3.25 |
|  | 16"ø             | 1.95                | 1.95 | 1.95                | 2.90 | 2.60            | 4.20 | 3.90            | 5.20 | 3.25                | 4.55 | 2.60        | 4.20 |
| SILT   | 4"ø & 6"ø        | 1.30                | 1.30 | 1.30                | 1.30 | 1.30            | 2.30 | 1.65            | 3.25 | 1.95                | 1.95 | 1.30        | 2.30 |
|  | 8"ø              | 1.30                | 1.30 | 1.30                | 1.95 | 1.95            | 2.60 | 2.30            | 4.20 | 2.30                | 2.90 | 1.95        | 2.60 |
|  | 10 <b>"</b> ø    | 1.30                | 1.65 | 1.65                | 2.60 | 2.30            | 3.55 | 3.25            | 4.55 | 2.30                | 4.55 | 2.30        | 3.55 |
|  | 12 <b>"</b> ø    | 1.30                | 2.30 | 2.30                | 2.60 | 2.30            | 5.20 | 3.25            | 6.45 | 3.25                | 4.55 | 2.30        | 5.20 |
|  | 16 <b>"</b> ø    | 1.95                | 1.95 | 2.30                | 3.55 | 2.90            | 5.20 | 4.20            | 6.45 | 3.55                | 5.50 | 2.65        | 5.20 |
| COHESIVE GRANULAR  | 4"ø & 6"ø        | 1.30                | 1.30 | 1.30                | 1.30 | 1.30            | 2.60 | 1.95            | 3.25 | 1.95                | 2.30 | 1.30        | 2.60 |
|  | 8"ø              | 1.30                | 1.30 | 1.30                | 2.30 | 1.95            | 2.90 | 2.60            | 4.20 | 1.95                | 3.90 | 1.95        | 2.90 |
|  | 10 <b>"</b> ø    | 1.30                | 1.95 | 1.65                | 2.90 | 2.60            | 3.55 | 3.25            | 5.20 | 2.60                | 4.55 | 2.60        | 3.55 |
|  | 12"ø             | 1.30                | 2.60 | 2.30                | 2.90 | 2.60            | 5.20 | 3.90            | 6.15 | 3.25                | 5.20 | 2.60        | 5.20 |
|  | 16"ø             | 1.95                | 2.30 | 2.30                | 3.90 | 3.25            | 5.50 | 4.55            | 7.10 | 3.90                | 5.85 | 3.25        | 5.50 |
| CLAY   | 4"ø & 6"ø        | 1.30                | 1.30 | 1.30                | 1.30 | 1.30            | 2.60 | 2.30            | 2.60 | 1.65                | 2.60 | 1.30        | 2.60 |
|  | 8"ø              | 1.30                | 1.30 | 1.30                | 2.30 | 1.95            | 2.90 | 2.30            | 4.55 | 1.95                | 3.90 | 1.95        | 2.90 |
|  | 10 <b>"</b> ø    | 1.30                | 1.95 | 1.60                | 2.90 | 2.30            | 3.90 | 2.90            | 5.50 | 2.90                | 3.90 | 2.30        | 3.90 |
|  | 12 <b>"</b> ø    | 1.30                | 2.60 | 1.95                | 3.25 | 2.60            | 4.85 | 3.55            | 6.45 | 2.90                | 5.50 | 2.60        | 4.85 |
|  | 16 <b>"</b> ø    | 1.95                | 2.30 | 2.30                | 3.90 | 3.25            | 5.20 | 4.20            | 7.45 | 3.90                | 5.85 | 3.25        | 5.20 |
|  |                  |                     |      |                     |      |                 |      |                 |      |                     |      |             |      |

