SERVICES WITHIN 25' OF SANITARY SYSTEMS AND WITHIN 10' OF WATER SUPPLY RULES (04/12/2019), LEAKAGE CLAMPS ARE TO BE

TOWN OF BENNINGTON MUNICIPAL WATER SYSTEM REMEDIAL EXPANSION PHASE II BENNINGTON, VERMONT

---

CONTRACT 8

EAST ROAD/(UPPER CHAPEL ROAD)
**NOTE:**

- Clear and grub as required.
- Connect to 3/4" municipal water main at existing gate valve.
- Cut corporation stop STA: 702+45.
- Cut corporation stop STA: 700+04.
- Cut corporation stop STA: 700+15.
- Cut corporation stop STA: 700+09.
- Cut corporation stop STA: 700+00.
- Cut corporation stop STA: 702+65.
- Cut corporation stop STA: 704+52.
- Cut corporation stop STA: 704+06.
- Cut corporation stop STA: 702+00.
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NOTE:

IN THE EVENT THAT A LINE IS DESIGNATED TO BE LOCATED OUTSIDE THE SIDES OR LIMITS OF THE RESIDENTIAL AREA, THE CONTRACTOR TO CONDUCT THE FREE-BORDING PROCEDURE BEFORE CONTINUING WORK.

THE CONTRACTOR TO MEET ANY ADVERSE CONDITIONS, AND BE OPEN TO THE REQUIREMENTS OF THE JOB, THE CONTRACTOR TO BE RESPONSIBLE FOR THE PROPER INSTALLATION AND OPERATION OF THE SYSTEM.

IN THE EVENT OF AN APPROVAL, THE CONTRACTOR SHALL INSTALL NEW SERVICE AND DISPOSE OF THE EXISTING PIPE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND STATE REGULATIONS.

IN THE EVENT OF A REQUEST, THE CONTRACTOR SHALL CONSTRUCT THE EXISTING SERVICE LINE IN ACCORDANCE WITH CONTRACT DOCUMENTS AND STATE REGULATIONS.

THE CONTRACTOR SHALL CONTACT THE PROPERTY OWNER AND OFFER TO REMOVE AND RE-SET EXISTING PAVERS.

WHEN CONNECTING TO AN EXISTING SERVICE, THE CONTRACTOR IS TO NOTIFY THE PROPERTY OWNER AND OFFER TO REMOVE AND RE-SET EXISTING PAVERS.

1. Install HDPE service and dispose of the existing pipe in accordance with contract documents and state regulations.
2. The contractor shall contact the property owner and offer to remove and reset existing pavers.
3. When connecting to an existing service, the contractor is to notify the property owner and offer to remove and reset existing pavers.
Elevation Station WL - E1.2 Chapel Rd PROFILE

REFUSAL ENCOUNTERED (P-128 DRILLED) STA: 134+24 ELEV: 1033.08
EXISTING 48" CPEP CULVERT CROSSING APPROX. STA: 138+40 APPROX. INV: 1021.79

EXISTING GRADE

3/4" CORPORATION STOP (2633 CHAPEL RD) STA: 138+28
3/4" CORPORATION STOP (2613 CHAPEL RD) STA: 136+70
1" CORPORATION STOP (2628 CHAPEL RD) STA: 136+98
3/4" CORPORATION STOP (2571 CHAPEL RD) STA: 134+56
3/4" CORPORATION STOP (2547 CHAPEL RD) STA: 133+72
3/4" CORPORATION STOP (2535 CHAPEL RD) STA: 132+55
3/4" CORPORATION STOP (2494 CHAPEL RD) STA: 130+82
3/4" CORPORATION STOP (2493 CHAPEL RD) STA: 130+25
2" CORPORATION STOP (2461 CHAPEL RD) STA: 130+06
3/4" CORPORATION STOP (2511 CHAPEL RD) STA: 131+95
3/4" CORPORATION STOP (2591 CHAPEL RD) STA: 136+10
4" GATE VALVE STA: 130+04
4" GATE VALVE STA: 136+00

BEGIN LEAKAGE CLAMPS STA: 137+20 END LEAKAGE CLAMPS STA: 136+20

END LEAKAGE CLAMPS STA: 138+45 BEGIN LEAKAGE CLAMPS STA: 135+50

CONNECT TO EXISTING WATER MAIN STA: 130+00

AVG. STREAM DEPTH AT CROSSING
6' (MIN)

PERIOD: 08-22-2019

TOWN OF BENNINGTON
MUNICIPAL WATER SYSTEM
REMEDIAL EXPANSION PHASE II
BENNINGTON, VERMONT

SERVICE CONTRACT 8

PROFILE 08-22-2019

MSK ENGINEERING AND DESIGN, INC.
P.O. BOX 139, 150 DEPOT STREET
MSK BENNINGTON, VERMONT 05201
PH: (802) 447-1402  FAX: (802) 445-1291

K:\_DRAWING DATABASE\1001-019.7 PFOA REMEDIATION II\SOURCE DRAWINGS\PLANS\PROPOSED\DISTRICT E\1001-019.7 TOB E1-2 PROPOSED.DWG
21 August 2019 14:52:50

REVISIONS
DESCRIPTION
DATE
NO.
### WL - E1.2 Chapel Rd PROFILE

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### Notes:
- **EXISTING GRADE**
- **MINIMUM DESIGN DEPTH**
- **3/4" CORPORATION STOP (2710 CHAPEL RD) STA: 141+54**
- **4x3 TEE TO FLUSH HYDRANT STA: 147+00**
- **3/4" CORPORATION STOP (2842 CHAPEL RD) STA: 148+30**
- **3/4" CORPORATION STOP (2679 CHAPEL RD) STA: 141+22**
- **4" GATE VALVE STA: 142+00**
- **END LEAKAGE CLAMPS STA: 140+65**
- **BEGIN LEAKAGE CLAMPS STA: 139+40**
- **3/4" CORPORATION STOP (2652 CHAPEL RD) STA: 138+70**
- **3/4" CORPORATION STOP (2678 CHAPEL RD) STA: 140+26**
- **3/4" CORPORATION STOP (2761 CHAPEL RD) STA: 144+46**

---

**Scale:** 1:40 HORIZONTAL; 1:4 VERTICAL

**Sheet Number:** DRAWN

**Drawings This Sheet:** DRAWN

**Date:** 08-22-2019

**Revisions:**
- **TOWN OF BENNINGTON**
- **MUNICIPAL WATER SYSTEM**
- **REMEDIAL EXPANSION PHASE II**
- **BENNINGTON, VERMONT**
- **1001-019.7**
- **C140A**
- **SERVICE CONTRACT 8**
- **PROFILE**

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**Checked:**

**Drawn:**

**Copyright:** MSK ENGINEERING AND DESIGN, INC.
P.O. BOX 139, 150 DEPOT STREET
MSK
BENNINGTON, VERMONT 05201

**Phone:** (802) 447-1402 **Fax:** (802) 445-1291

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**Revision History:**

**Date**

**Description**

**NO.**

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**Project File Path:** K:\_DRAWING DATABASE\1001-019.7 PFOA REMEDIATION II\SOURCE DRAWINGS\PLANS\PROPOSED\DISTRICT E\1001-019.7 TOB E1-2 PROPOSED.DWG

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**Revision Log:**

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REFUSAL ENCOUNTERED (P-133 DRILLED)
STA: 158+65
ELEV: 1018.06

EXISTING 15" CMP CULVERT CROSSING
APPROX. STA: 165+27
APPROX. INV: 986.58

5'-6" (MIN. DESIGN DEPTH)

EXISTING GRADE
3/4" CORPORATION STOP (109 CHAPEL RD)
STA: 162+06
8' (MIN)

BEGIN LEAKAGE CLAMPS
STA: 158+65
END LEAKAGE CLAMPS
STA: 166+75
END LEAKAGE CLAMPS
STA: 159+65

4" GATE VALVE
STA: 162+40
4" CL 52 DI WATER MAIN

3/4" CORPORATION STOP (14 EAST RD)
STA: 167+46
REFUSAL ENCOUNTERED (P-147)
STA: 167+76
ELEV: 998.97

MAX. STREAM DEPTH AT CROSSING
11.25° HORIZONTAL BEND
STA: 167+60
ELEV: 985.68

AVG. STREAM DEPTH AT CROSSING
6' (MIN)

4" HDPE WATER MAIN
4" CL 52 DI WATER MAIN

4x4 TEE TO EAST RD
STA: 167+88
4" GATE VALVE
STA: 167+85
1. **Typical Concrete Thrust Block Detail**

   Notes:
   - Block size dimensions are shown for installation of the concrete thrust block. The block size is to be determined using the soil bearing area table.
   - Concrete thrust blocks shall be provided at the locations shown.

2. **Typical HDPE Transition Detail**

   Notes:
   - HDPE transition blocks shall be provided at the locations shown.
   - The HDPE transition blocks shall be installed in accordance with the manufacturer's recommendations.

3. **Typical Sampling Station Detail**

   Notes:
   - Sampling stations are to be located at the locations shown.
   - All stations are to be provided with a 1/2" sampling valve.
   - All sampling points are to be provided with an air vent and a pressure relief valve.

4. **Water Crossing Sewer - Above**

5. **Water Crossing Sewer - Below**

6. **Typical Curb Stop**

   Notes:
   - Curb stops shall be provided at the locations shown.
   - The curb stops shall be installed in accordance with the manufacturer's recommendations.

7. **Typical Sleeve Pipe Detail**

8. **Typical Flushing Detail**

9. **Typical Construction Details**

   Notes:
   - Construction details are to be provided at the locations shown.
   - All details are to be provided in accordance with the manufacturer's recommendations.

10. **Typical Dry Hydrant Assembly**

   Notes:
   - Dry hydrants are to be provided at the locations shown.
   - The dry hydrants shall be installed in accordance with the manufacturer's recommendations.

11. **Typical Concrete Thrust Block Detail**

   Notes:
   - Concrete thrust blocks shall be provided at the locations shown.
   - The concrete thrust blocks shall be installed in accordance with the manufacturer's recommendations.
1. Segment baseline, trench, perimeter drains, and landscape excavation should be completed and made ready for use prior to Commencing baseline excavation. PERMANENT SEEDING SHALL ONLY BE UNDERTAKEN IN THE SPRING FROM APRIL THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL UNTIL SEPTEMBER 15, EXCEPT THAT PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS ARE TO BE CURRENTLY SUSPENDED OR SECTIONS COMPLETED:

2. Provision of temporary sediment trapping devices shall not be required to be obtained by the contractor, but any existing temporary sediment trapping devices shall be left in place and maintained for the duration of the construction period. Temporary sediment trapping devices shall be considered and maintained for the duration of the construction period. Temporary sediment trapping devices shall be considered.

3. Erosion prevention/sediment control measures shall be applied immediately after disposal. Erosion prevention/sediment control measures shall be established and maintained to control erosion and sedimentation.

4. This project is permitted under an individual stormwater general permit and the state of Vermont Stream alteration permit, and shall be constructed in accordance with the Vermont Department of Environmental Conservation's standards and other applicable criteria.

5. Preliminary excavation plans for utility trenching shall be submitted to the Town of Bennington for review and approval prior to construction.

6. All work performed below the ordinary high water (OHW) level of rivers and streams shall be stabilized immediately with rock rip-rap or other non-erodible materials. Stabilized construction entrances will be maintained to control vehicle tracking material off site.

7. Erosion prevention/sediment control measures shall be applied immediately after disposal. Erosion prevention/sediment control measures shall be established and maintained to control erosion and sedimentation.

8. Prior to converting sediment traps/basins into permanent (post-construction) stormwater management practices, including areas where construction has been suspended or sections completed:

9. Material stockpiles shall be categorized into five sections (A) to (E): (A) stockpiles of dirt, (B) stockpiles of rock, (C) stockpiles of wood, (D) stockpiles of plastic or geotextile to prevent soil loss until stabilized. Stabilized construction entrances will be maintained to control vehicle tracking material off site.

10. The winter construction season is defined as the period from December 1 through April 30. The winter construction season will be defined as the period from December 1 through April 30. The winter construction season may be extended beyond this period if necessary to ensure proper operating conditions.

11. The winter construction season is defined as the period from December 1 through April 30. The winter construction season may be extended beyond this period if necessary to ensure proper operating conditions.

12. The winter construction season is defined as the period from December 1 through April 30. The winter construction season may be extended beyond this period if necessary to ensure proper operating conditions.

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15. The winter construction season is defined as the period from December 1 through April 30. The winter construction season may be extended beyond this period if necessary to ensure proper operating conditions.
**CONSTRUCTION SPECIFICATIONS**

1. Metal RECP on all slopes 1:1 or greater and in channels.
   - Metal RECP for 1:3 slope channels containing water shall be cut around all curvatures that the RECP will cross. Set staple into the fabric flaps with stapler, over each fold.
   - Metal RECP are to be placed 2 feet (600 mm) below grade and maintained 1 foot (300 mm) from any vegetation in the area that will be planted.
2. Turf reinforcement swale details shall be designed in accordance with the turf reinforcement swale details.
3. Use 3' (900 mm) to 6' (1800 mm) of overlap for roll on roll staple patterns, with 1/2 staples per foot (127 mm) of overlap.
4. Turf reinforcement swale details shall be designed in accordance with the turf reinforcement swale details.
5. Turf reinforcement swale detail as shown on drawings is not to scale.

**STABILIZATION NOTES**

**TEMPORARY SEEDING**

**PREPARATION**

Temporary seeding practice must be installed prior to stabilization as appropriate for the area. Time of seeding shall be determined on the site. **NOTE**: Seed may be used in areas of significant erosion or in areas where additional land use will occur in early fall or late winter to control erosion.

**SEED TYPE**

Seeds shall be certified by the State of Vermont and may be used in areas of significant erosion or in areas where additional land use will occur in early fall or late winter to control erosion and prevent soil erosion.

**METHODS OF SEEDING**

Seeds may be broadcasted, drilled, or hydroseeded. Seed type and rate of seeding will be determined by the area and its potential for erosion. See note 3.

**METHODS OF MULCHING**

Mulg, mulch, and tucking may be used in areas of significant erosion or in areas where additional land use will occur in early fall or late winter to control erosion and prevent soil erosion.

**PERMANENT SEEDING**

Seeds shall be certified by the State of Vermont and may be used in areas of significant erosion or in areas where additional land use will occur in early fall or late winter to control erosion and prevent soil erosion.

**METHODS OF MULCHING**

Temporary mulching and tucking may be used in areas of significant erosion or in areas where additional land use will occur in early fall or late winter to control erosion and prevent soil erosion.

**PERMANENT SEEDING**

Permanent mulching and tucking may be used in areas of significant erosion or in areas where additional land use will occur in early fall or late winter to control erosion and prevent soil erosion.
CONNECTION TO EXISTING MUNICIPAL WATER MAIN

EXISTING 16" DI WATER MAIN
EXISTING 16" GATE VALVE
NEW 8" DI WATER MAIN
NEW 16" DI WATER MAIN
NEW 8" TEE REDUCER
NEW 16" TEE REDUCER
NEW 4" DI WATER MAIN
NEW 4" GATE VALVE (NORMALLY CLOSED)
**Town of Bennington Municipal Water System Remedial Expansion Phase II**

**Bennington, Vermont**

**1001-019.7 C510**

**Contract 8**

**Miscellaneous Details**

08-22-2019

**MSK**

**JMD**

**Scale: NTS**

**Gate Detail at Pump Station**

**Note:** The detail is shown for concept and required horizontal dimensions. The contractor is expected to verify and provide details for the fence manufacturers. The fence manufacturer's specifications are to be provided for verification.

- Provide cross-bracing to next adjacent post for stabilization of gate at opening (typical each side).
- New Steel Terminal Post with Reinforced Concrete Footing Per Manufacturer's Specifications.
- New Steel Terminal Post with Reinforced Concrete Footing Per Manufacturer's Specifications.
- Provide cross-bracing to adjacent post for construction of typical fence.
- Concrete Footing Per Fence Manufacturer's Specifications.
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WATER SERVICE ENTRANCE DETAIL

2568 EAST RD (EXISTING)

TO DOMESTIC DISTRIBUTION

BLOCK WALL FROM WELL

WX 250 POET 3 4" Cu WATER SOFTENER

FLOOR CRAWLSPACE BLOCK WALL 1" HDPE

1298 EAST RD (EXISTING)

SLAB TO DOMESTIC DISTRIBUTION

BLOCK WALL FROM WELL

WX 250 POET 3 4" Cu WATER SOFTENER

FLOOR CRAWLSPACE BLOCK WALL 1" HDPE

14 EAST RD, SHAFTSBURY (EXISTING)

FLOOR TO DOMESTIC DISTRIBUTION

STONE WALL FROM WELL

WX 250 1" HDPE 3/4" Cu

C508

14 EAST RD, SHAFTSBURY (PROPOSED)

FLOOR TO DOMESTIC DISTRIBUTION

STONE WALL FROM MAIN

WX 250 1" HDPE 3/4" Cu ST 12 PR DISCONNECT AND DISMOUNT DISCONNECT AND DISPOSE INSTALL +35LF OF PIPE TO TIE-IN DISCONNECT AND DISPOSE

C508

2568 EAST RD (PROPOSED)

FLOOR

(SEE SHEET FOR SYMBOL LEGEND)

WX 250 POET 3 4" Cu WATER SOFTENER

FLOOR CRAWLSPACE BLOCK WALL FROM MAIN DISCONNECT AND DISMOUNT DISCONNECT AND DISPOSE

C508

2677 EAST RD (PROPOSED)

FLOOR TO DOMESTIC DISTRIBUTION

BLOCK WALL FROM MAIN

WX 250 POET 1 2" Cu

ST 12 PR DISCONNECT AND DISPOSE

C508

CHECKED SHEET NUMBER DRAWN DRAWINGS THIS SHEET NUMBER DATE

MSK ENGINEERING AND DESIGN, INC.
P.O. BOX 139, 150 DEPOT STREET
MSK BENNINGTON, VERMONT 05201

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K:\_DRAWING DATABASE\1001-019.7 PFOA REMEDIATION II\SHEETS\CONTRACT 8\1001-019.7 TOB C600 CONTRACT 8 SERVICE DIAGRAMS.DWG

21 August 2019 11:21:53

REVISIONS

DESCRIPTION DATE NO.

TOWN OF BENNINGTON MUNICIPAL WATER SYSTEM REMEDIAL EXPANSION PHASE II BENNINGTON, VERMONT 1001-019.7 C602 CONTRACT 8 SERVICE ENTRANCE DIAGRAMS 08-22-2019 MSK JMD
WATER METER VAULT

NOTES:
1. ATTACH SMALL DIAMETER PRESSURE SENDING LINES AND SUMP DRAIN LINES TO INTERIOR VAULT WITH PIPE STRAPS AND CONCRETE ANCHORS.
2. INSTALL COMBINED SPACE ENTRY SIGN ON UNDERSIDE OF VAULT.
3. PROVIDE LIMIT SWITCH ON VAULT HATCH TO OPERATE VENT BLOWER AND LIGHT.
4. PROVIDE 4-FOOT SURFACE MOUNTED, GASKETED LIGHT FIXTURE.
5. PROVIDE DUPLEX OUTLET WITH WEATHER COVER ON INSIDE WALL OF VAULT.