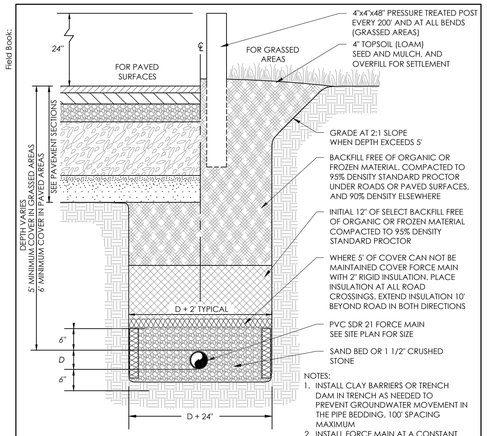
Field Book:

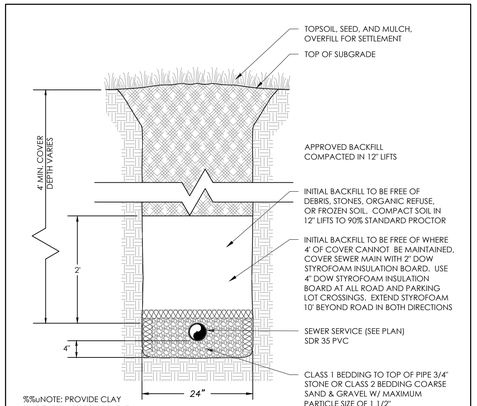


NOTES:
1. INSTALL CLAY BARRIERS OR TRENCH DAM IN TRENCH AS NEEDED TO PREVENT GROUNDWATER MOVEMENT IN THE PIPE BEDDING. 100' SPACING MAXIMUM.
2. INSTALL FORCE MAIN AT A CONSTANT GRADE (NO HIGH POINTS OR LOW POINTS)

TYPICAL FORCE MAIN TRENCH

3/4" = 1'-0"

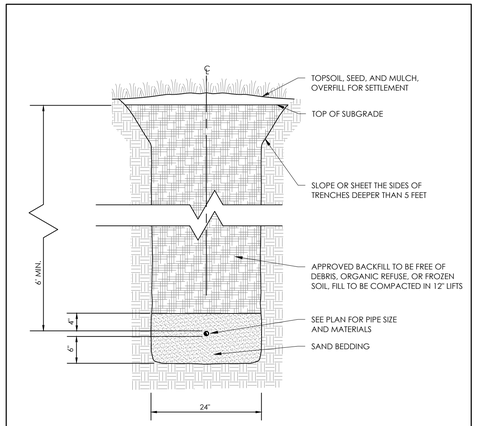
2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 3/7/2013 S-002



TYPICAL SEWER SERVICE TRENCH

3/4"=1'

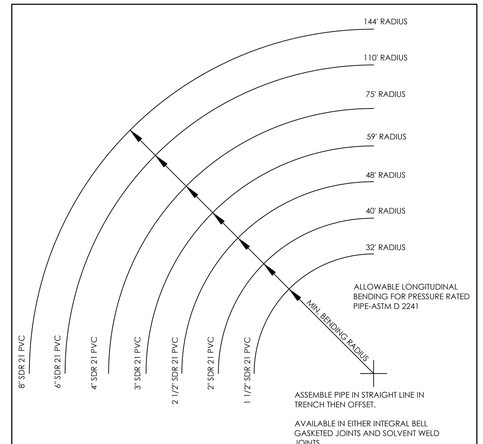
2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 04/20/2013 S-026



TYPICAL WATER SERVICE TRENCH

1"=1'

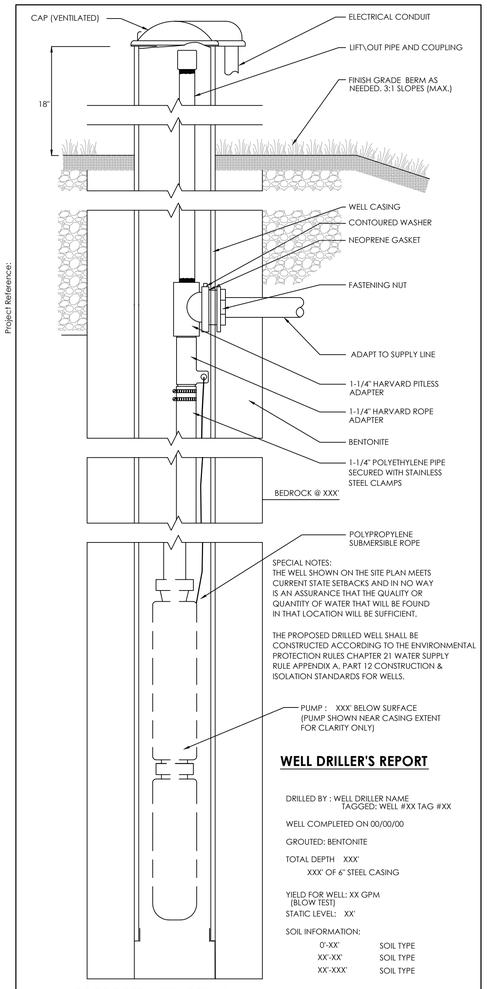
2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 02/06/2013 W-003



ALLOWABLE BENDING FOR SDR 21 PVC PIPE

2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 3/5/2013 S-006

Project Reference:



SPECIAL NOTES:
THE WELL SHOWN ON THE SITE PLAN MEETS CURRENT STATE SETBACKS AND IN NO WAY IS AN ASSURANCE THAT THE QUALITY OR QUANTITY OF WATER THAT WILL BE FOUND IN THAT LOCATION WILL BE SUFFICIENT.

THE PROPOSED DRILLED WELL SHALL BE CONSTRUCTED ACCORDING TO THE ENVIRONMENTAL PROTECTION RULES CHAPTER 21 WATER SUPPLY RULE APPENDIX A, PART 12 CONSTRUCTION & ISOLATION STANDARDS FOR WELLS.

WELL DRILLER'S REPORT

DRILLED BY : WELL DRILLER NAME
TAGGED: WELL #XX TAG #XX

WELL COMPLETED ON 00/00/00

GROUTED: BENTONITE

TOTAL DEPTH XXX'
XXX' OF 6" STEEL CASING

YIELD FOR WELL: XX GPM
(BLOW TEST)
STATIC LEVEL: XX'

SOIL INFORMATION:

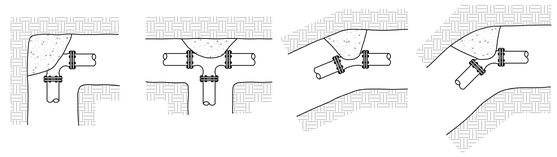
0'-XX'	SOIL TYPE
XX'-XX'	SOIL TYPE
XX'-XXX'	SOIL TYPE

PROPOSED WELL DETAIL

1"=1/2"

2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 03/11/2013 W-021

USE CLASS D (2500 PSI) CONCRETE FOR THRUST BLOCKS. PLACE 4 MIL. POLYETHYLENE BETWEEN FITTING AND THRUST BLOCK. PLACE THRUST BLOCK AGAINST UNDISTURBED TRENCH WALL - CONCRETE BEARING AREA ON FITTING TO BE A MINIMUM OF 1/2 SQUARE FOOT. THRUST BLOCKS BASED ON 50 PSI TEST PRESSURE IF CHANGE IN ELEVATION BETWEEN ANY 2 POINTS IN THE LINE IS GREATER THAN 110' THRUST BLOCKS WILL HAVE TO BE ENLARGED.



MINIMUM BEARING AREA IN SQUARE FEET ON UNDISTURBED TRENCH WALL

SOIL TYPE	SAFE BEARING LOAD LBS/FT. 2	2"				2 1/2"				3"				4"				6"			
		TEE	90°	45°	22.5°	TEE	90°	45°	22.5°	TEE	90°	45°	22.5°	TEE	90°	45°	22.5°	TEE	90°	45°	22.5°
CLAY	1000	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.9	0.7	0.5	1.8	2.0	1.5	0.8
SAND	2000	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	1.0	0.8	0.5
GRAVEL	3000	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
TILL	4000	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
SHALE	10000	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

NOTE : ENGINEER TO OBSERVE ALL THRUST BLOCKS PRIOR TO BACKFILL.

FORCE MAIN THRUST BLOCK SPECIFICATIONS

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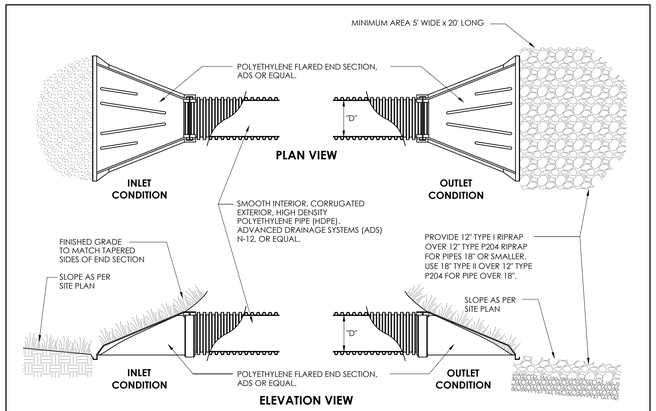
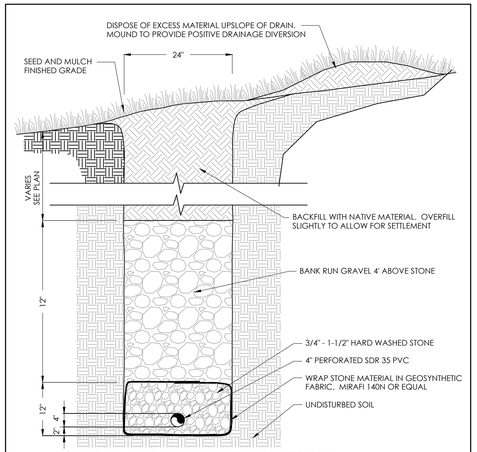


POLYETHYLENE (HDPE) END SECTION

1/2"=1'

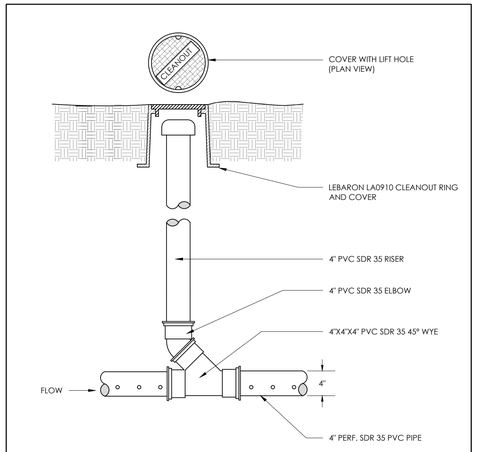
2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 03/11/2013 SW-009



TYPICAL CURTAIN DRAIN CROSS SECTION

3/4"=1'

2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 05/14/2013 S-035



TYPICAL CURTAIN DRAIN CLEANOUT

1"=1'

2013 TRUDELL CONSULTING ENGINEERS LAST REVISED 05/14/2013 S-036

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TRUDELL CONSULTING ENGINEERS
478 BLAIR PARK ROAD | WILLISTON, VERMONT 05495
802 879 6331 | WWW.TCEVT.COM

Revisions

No.	Description	Date	By

Use of These Drawings

1. Unless otherwise noted, these Drawings are intended for preliminary planning, coordination with other disciplines or utilities, and/or approval from the regulatory authorities. They are not intended as construction drawings unless noted as such.

2. Only drawings specifically marked "For Construction" are intended to be used in conjunction with contract documents, specifications, owner/contractor agreements and to be fully coordinated with other disciplines, including but not limited to, the Architect, if applicable. These Drawings shall not be used for construction layout. Contact TCE for any construction surveying services or to obtain electronic data suitable for construction layout.

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4. By use of these drawings for construction of the Project, the Owner represents that they have reviewed, approved, and accepted the drawings and have met with all applicable parties/disciplines to insure these plans are properly coordinated with other aspects of the Project. The Owner and Architect, are responsible for any buildings shown, including an area measured a minimum five (5) feet around any building.

5. It is the User's responsibility to ensure this copy contains the most current revisions.

STATE OF VERMONT
JOHN PITKOWISH
No. 8104
CIVIL
LICENSED PROFESSIONAL ENGINEER

Project Title

Hergenrother Construction, Inc. Guinea Road Subdivision

Guinea Road, Charlotte, VT

Sheet Title

Site Details

Date:	5/14/2013
Scale:	AS SHOWN
Project Number:	2013032
Drawn By:	PJM
Project Engineer:	NTH
Approved By:	

C8-01