

PROJECT WATER DETAILS

PREPARED IN THE OFFICE OF: THE WOOTEN COMPANY <small>120 North Roper Avenue Raleigh, NC 27603-1423 919.876.9331 Fax 919.876.3189 License Number: F-0115</small>	PROJECT REFERENCE NO.	SHEET NO.
	B-5626	UC-3C
DESIGNED BY: DGM	DRAWN BY: TK	
CHECKED BY: CMG	APPROVED BY: DGM	
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		
WATER LINE CONSTRUCTION SHOWN ON THIS SHEET		

UTILITY CONSTRUCTION

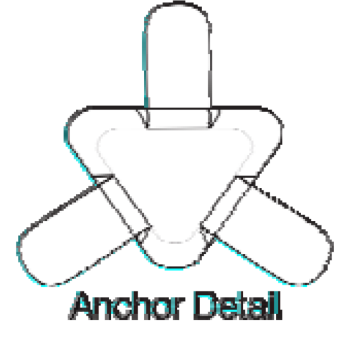
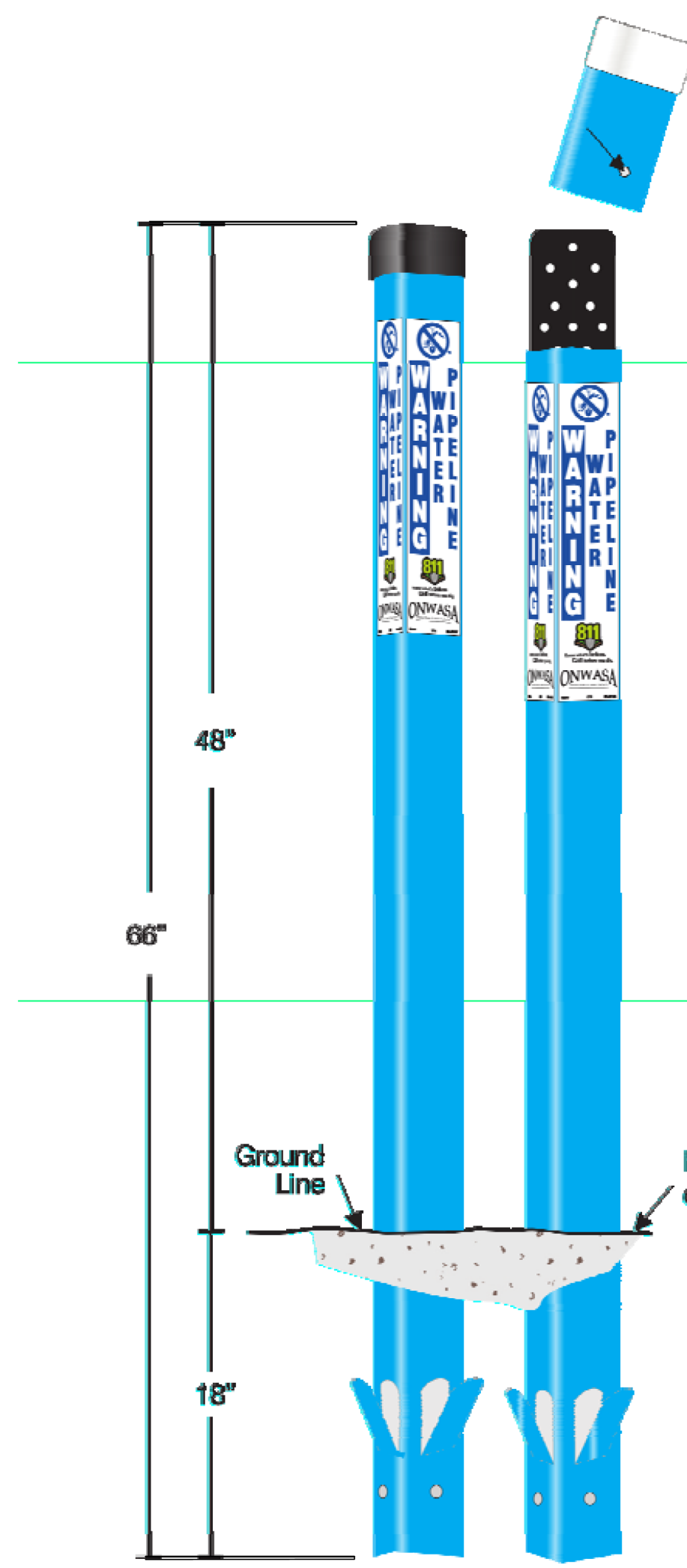
- Parts List**
- 1 - Rhino # TVF66UB - Rhino TriView Flex™, 66" Blue with Black Cap OR Blue with Black Cap OR
 - 1 - Rhino # TVT166JW2 - Rhino TriView™ Test Station, 66", 2 Inside Terminals, Blue with White Cap
 - 1 - Cap Lock - TS-LOCK for Test Stations
 - 3 - Decal # SD-8516K Custom Decals

NOTES:

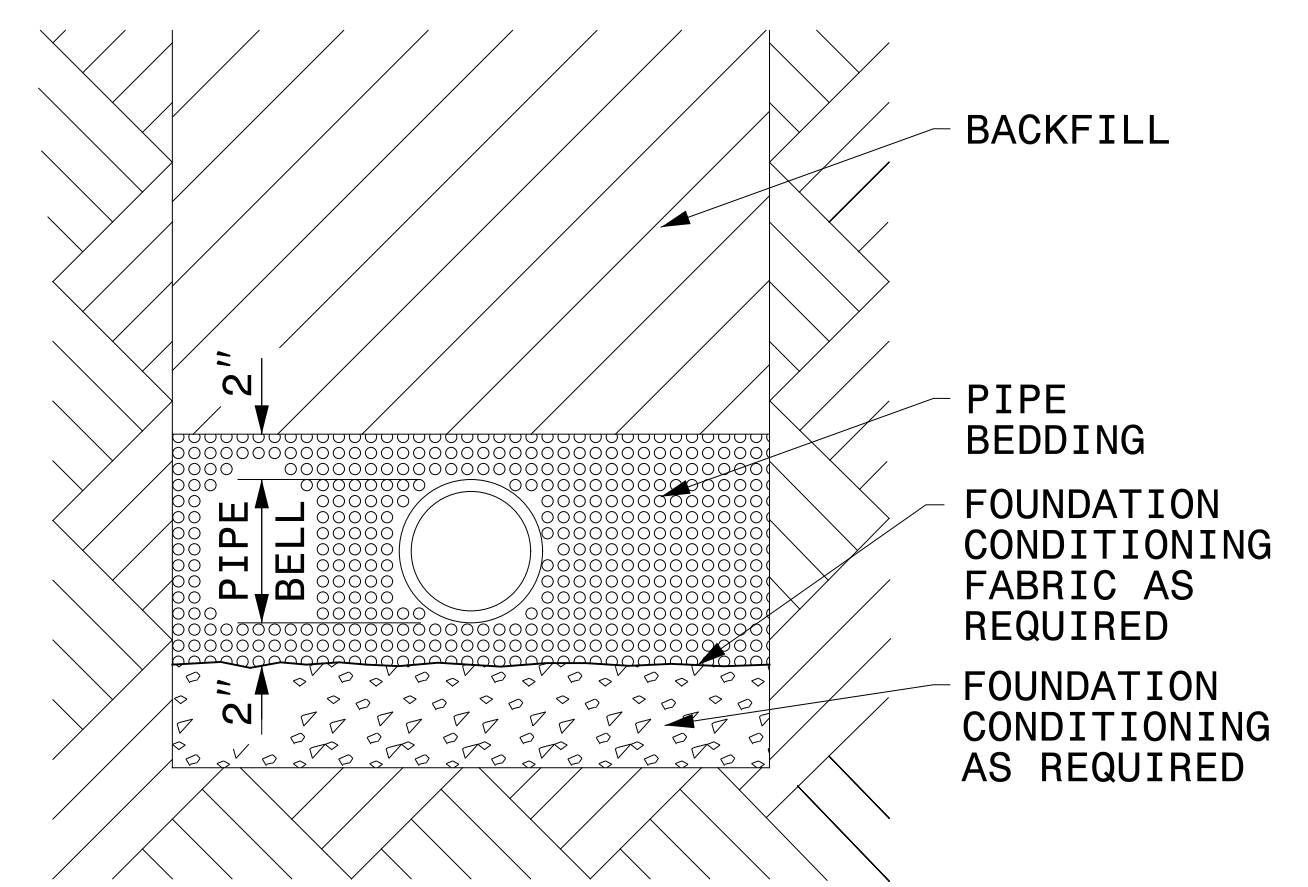
The TriGrip Anchor Flaps™ shall be extended priority to burial of the post. Soil shall be compacted during placement of marker post.

All materials shall be provided by Rhino Marking & Protection Systems, Inc.

Install above-ground utility markers at horizontal bends, main-line valve boxes (not within 10 feet of a fire hydrant assembly branch), ends of directional bores, bank edge of all channels crossed by directional bores, each side of a roadway crossing, and along the piping alignment. The maximum spacing for the above-ground utility markers shall be 500 linear feet. In locations where there are multiple horizontal bends in close proximity, one marker will be sufficient to demonstrate the change in direction. Utility markers designed to provide access to tracer wire shall be installed at every third marker, or every 1000 feet of pipe, whichever is lesser. Tracer wire accessible above-ground utility markers shall also be installed at ends of directional bores.



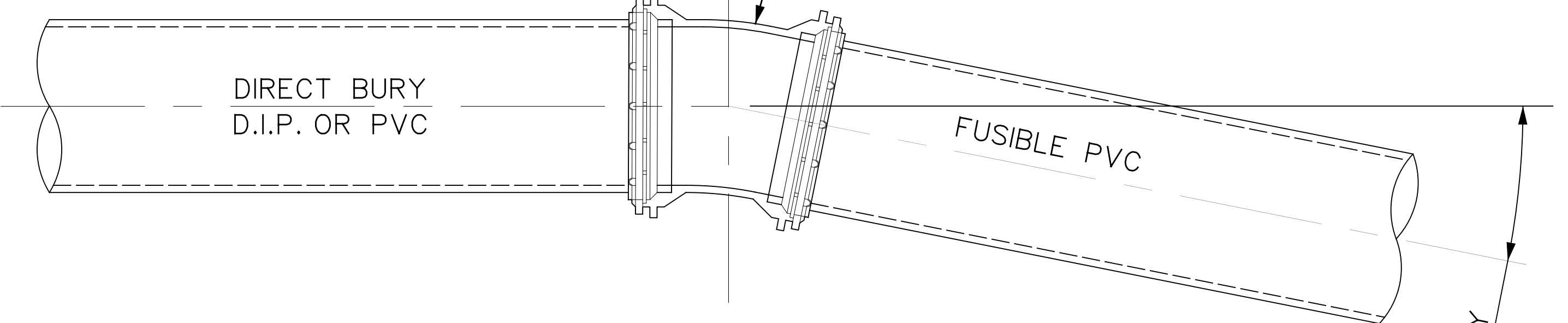
TRENCH DETAIL



PLACE FOUNDATION CONDITIONING MATERIAL BELOW BEDDING IF REQUIRED, AS DIRECTED BY ENGINEER. PIPE BEDDED IN SELECT MATERIAL, CLASS II (TYPE 1) OR CLASS III. TRENCH BACKFILLED IN LOOSE 6" LAYERS COMPACTED TO TOP OF TRENCH USING LOCAL EXCAVATED MATERIAL IF APPROVED BY THE ENGINEER, OR SELECT MATERIAL. ALL MATERIAL SHALL BE FREE OF ROCKS, FOREIGN MATERIAL, AND FROZEN EARTH. COMPACTION SHALL BE TO APPROXIMATELY 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

SPLIT SERRATED RESTRAINT MECHANICAL JOINT WITH LONG T-BOLTS AND FULL CIRCUMFERENTIAL RESTRAINT RINGS FOR C900 PVC

MECHANICAL JOINT DUCTILE IRON FITTING MAXIMUM 45°



CONNECTION DETAIL - DIRECT BURY PIPE TO FUSIBLE PVC HDD

NOT TO SCALE

HDD ENTRY ANGLE

	Onslow Water & Sewer Authority USE WITH "ONWASA MANUAL OF SPECIFICATIONS, STANDARDS and DETAILS, latest revision"	
	STANDARD UTILITY MARKER FOR WATER MAIN	SCALE: Not To Scale REVISION DATE: May, 2016
	DETAIL # WS_WMRK SHEET #: 1 of 1	