

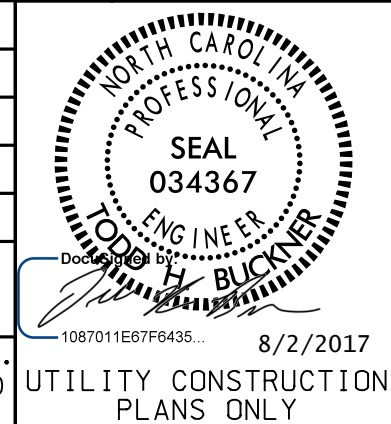
# PROJECT TYPICAL DETAILS

DOCUMENT NOT CONSIDERED FINAL  
UNTIL ALL SIGNATURES ARE COMPLETED

PROJECT REFERENCE NO. U-5935 SHEET NO. UC-3A

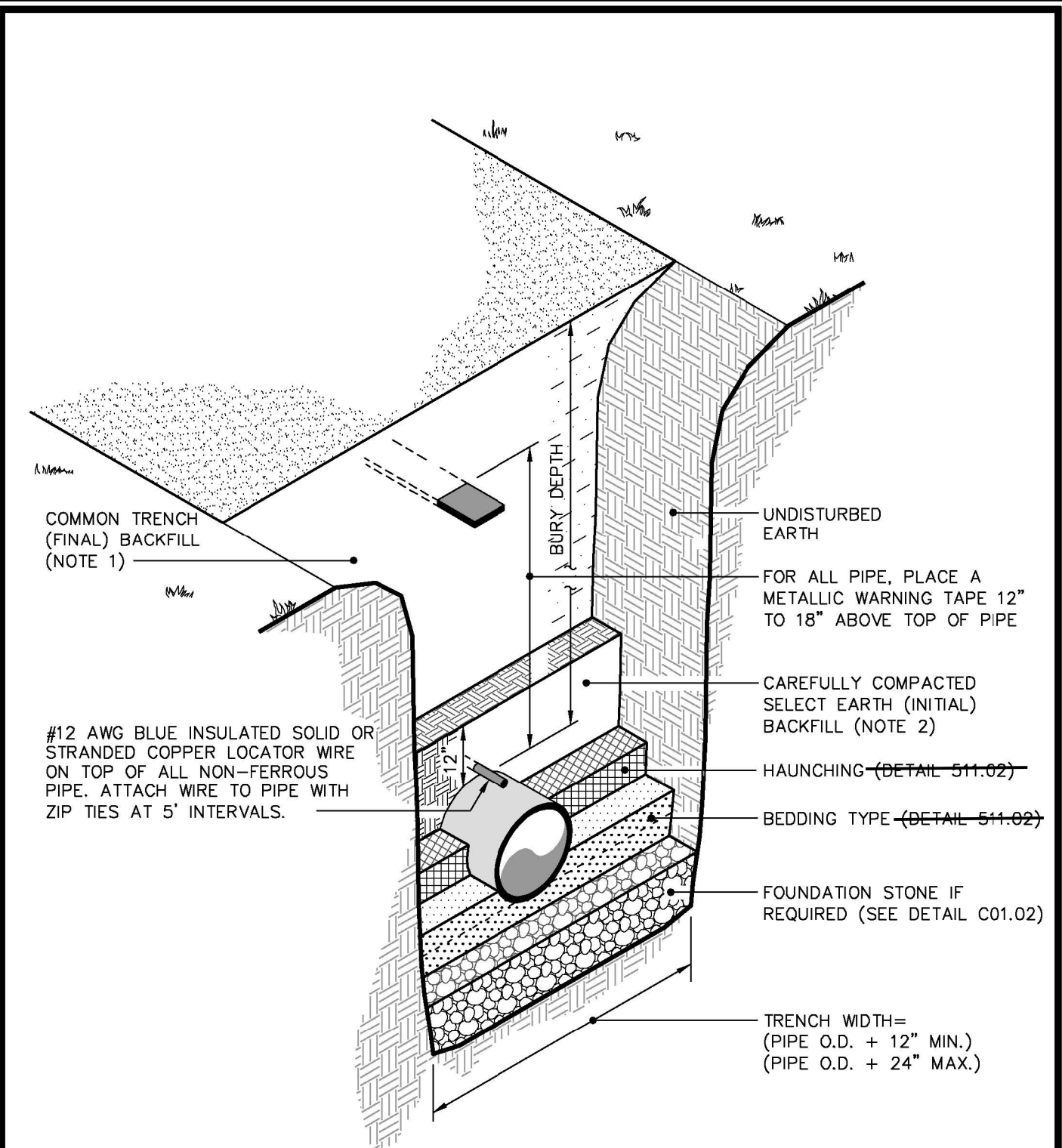
Michael Baker Engineering, Inc.  
Michael Baker  
INTERNATIONAL

DESIGNED BY:  
DRAWN BY:  
CHECKED BY:  
APPROVED BY:  
REVISED:  
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
UTILITIES ENGINEERING SECTION  
PHONE: (919) 707-6690  
FAX: (919) 250-4151



## UTILITY CONSTRUCTION

Details Provided by APPIAN Consulting Engineers - www.applanengineers.com 05/06/2010 - 12:21:10 PM



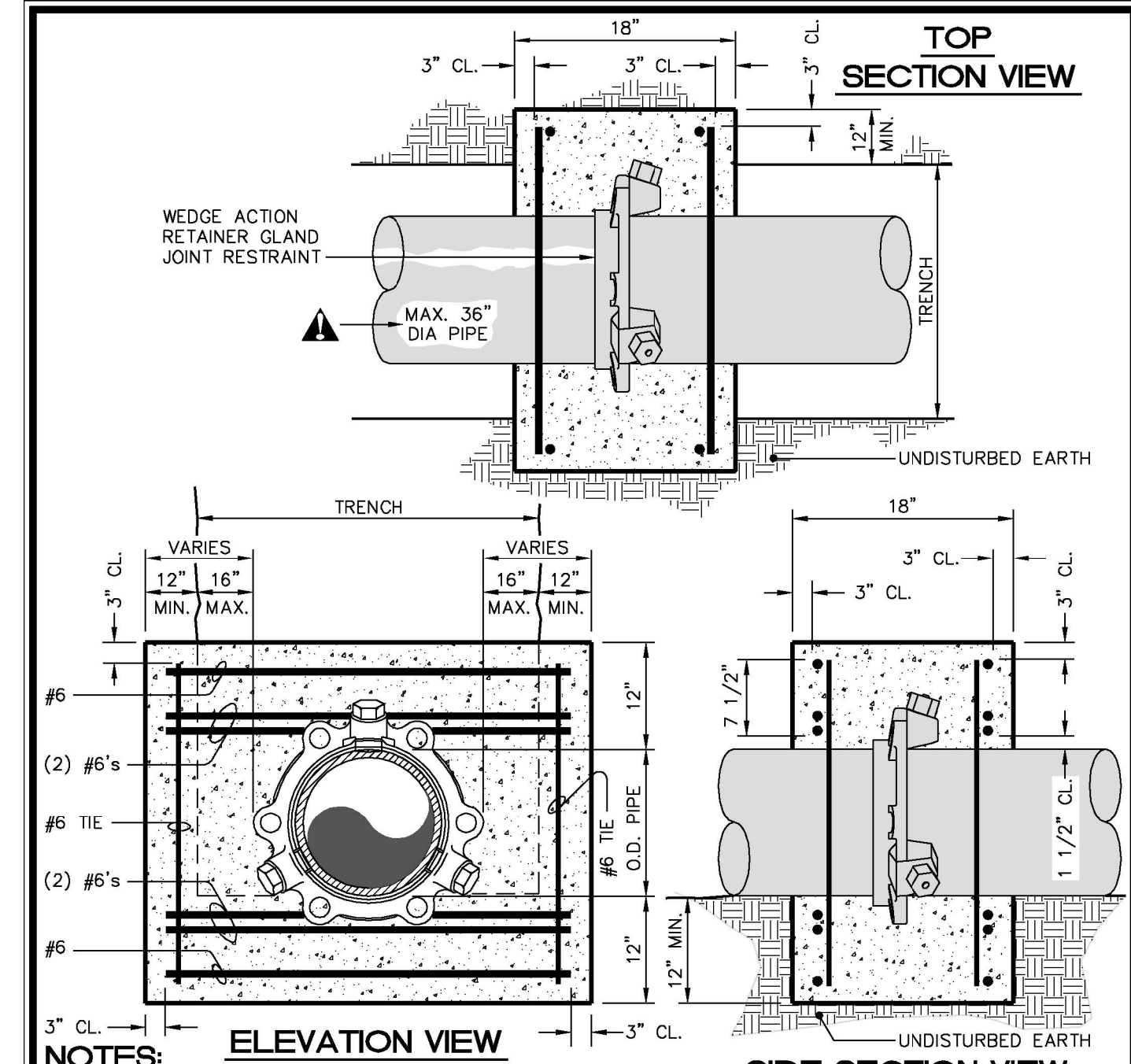
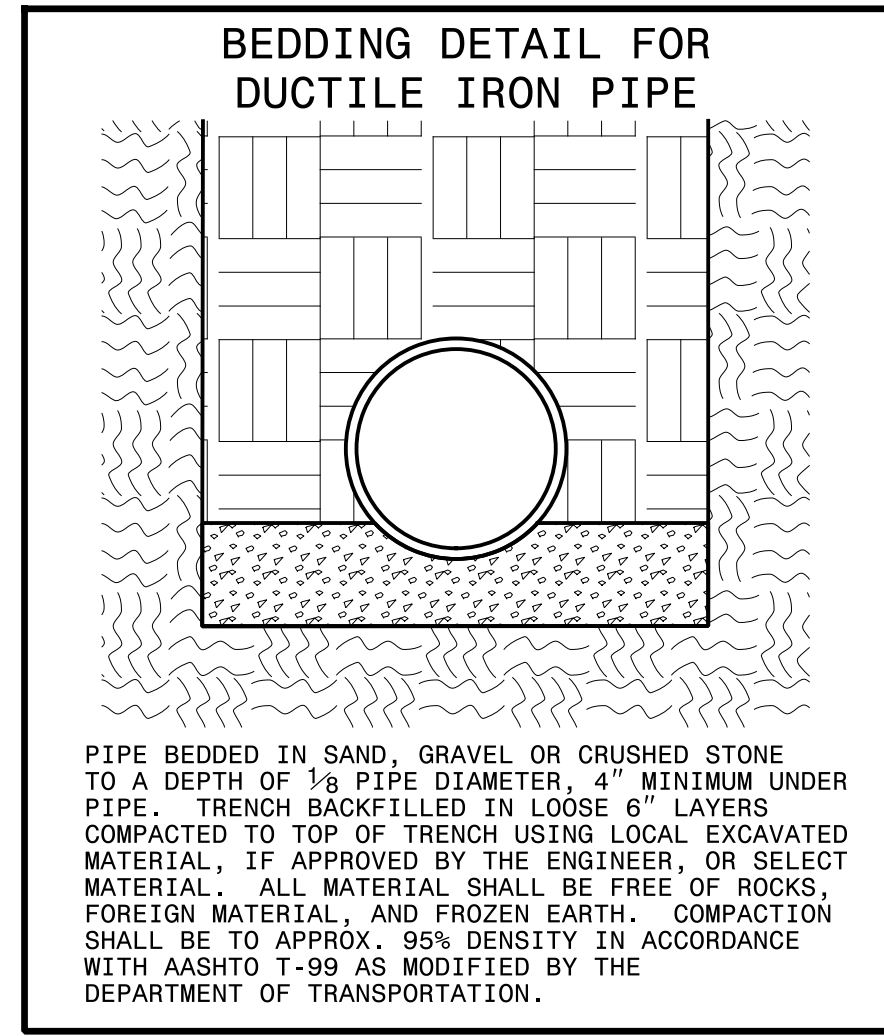
- NOTES:**
- See specifications Section 02275, Part 2 - PRODUCTS for composition of Select Earth Backfill and Common Trench Backfill.
  - See detail C01-03 for pipe laid within an existing paved street.

**CITY OF WILSON, N.C.**  
Public Services Departments  
1800 Herring Avenue, / P.O. Box 10  
Wilson, North Carolina 27894  
Voice (252) 399-2465  
FAX (252) 399-2453  
www.wilsonnc.org

**FORCE MAIN & WATER MAIN PIPE LAYING CONDITIONS**

SCALE: Not To Scale  
REVISION DATE: June, 2010  
DETAIL # 511.01  
SHEET # 1 of 1

Details Provided by APPIAN Consulting Engineers - www.applanengineers.com 05/06/2010 - 12:16:39 PM



- NOTES:**
- Concrete shall 3000 P.S.I.
  - Trench bottom width in vicinity of thrust block(s) installation shall be the minimum width for placement of pipe (Max trench width = pipe O.D.+2 Ft.)
  - Place thrust collar on one full joint of pipe.
  - Last joint of pipe with thrust collar to be mechanical joint pipe with joint restraint system (grip ring).
  - Place thrust collar 2± feet from plug end of pipe.
  - Thrust collars may be used only when approved by City Engineer or Water Resources. Otherwise, designer shall design & specify on the plans length of pipe required to be restrained on each leg. See standard detail 512-06 and design manual.

**CITY OF WILSON, N.C.**  
Public Services Departments  
1800 Herring Avenue, / P.O. Box 10  
Wilson, North Carolina 27894  
Voice (252) 399-2465  
FAX (252) 399-2453  
www.wilsonnc.org

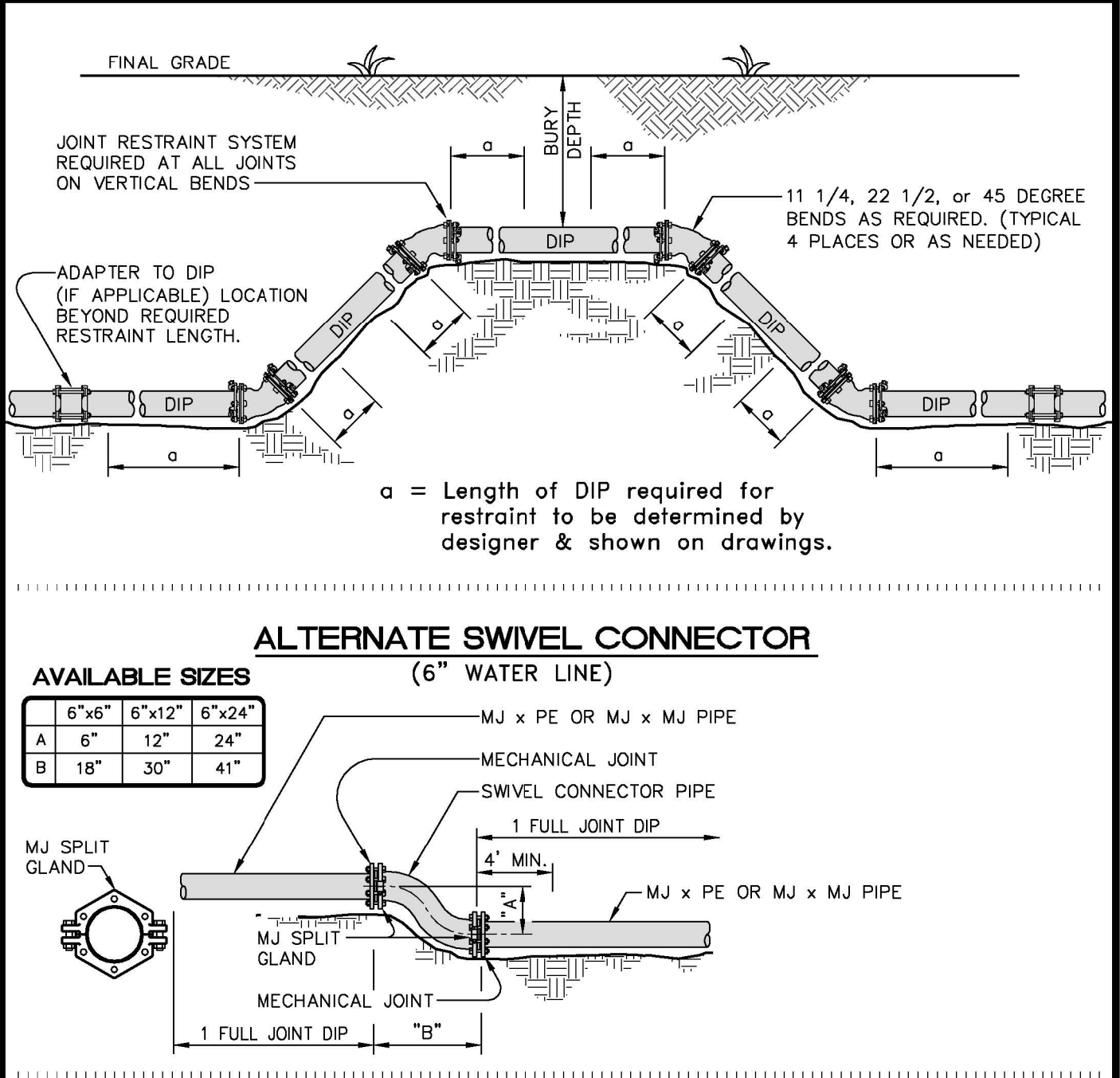
**CONCRETE THRUST COLLAR DETAIL**

SCALE: Not To Scale  
REVISION DATE: June, 2010  
DETAIL # 512.05  
SHEET # 1 of 1

**MAXIMUM TRENCH WIDTH AT TOP OF PIPE**

NOMIAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)	NOMINAL PIPE SIZE (INCHES)	TRENCH WIDTH (INCHES)
2	26	18	42
4	28	20	44
6	30	24	48
8	32	30	54
10	34	36	60
12	36	42	66
14	38	48	72
16	40	54	78

Details Provided by APPIAN Consulting Engineers - www.applanengineers.com 05/06/2010 - 12:32:05 PM



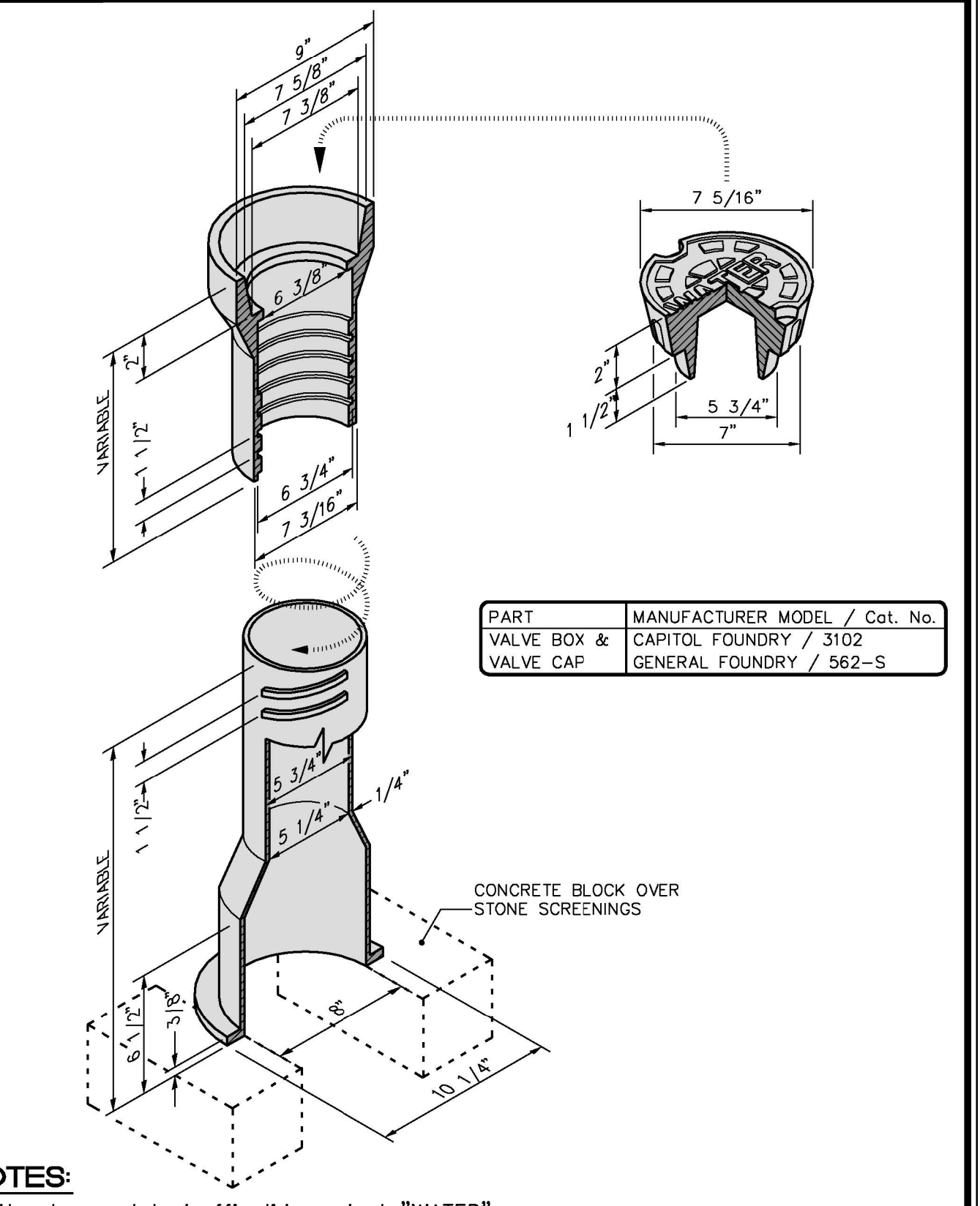
- NOTES:**
- The offset is to be assembled above ground first.
  - Record all as-built lengths using the center lines of the pipes or bends as reference points.
  - Adapters vary in type according to the material of the existing water main.
  - Compact ductile iron (350 p.s.i.) fire hydrant offset connector pipe (AWWA C-110-ANSI A21.4) equal to or exceeding "GRADE LOK" as manufactured by: Assured Flow Sales, Inc., 1-(800)-388-0678
  - All mechanical joint fittings or valves shall have a joint restraint system.

**CITY OF WILSON, N.C.**  
Public Services Departments  
1800 Herring Avenue, / P.O. Box 10  
Wilson, North Carolina 27894  
Voice (252) 399-2465  
FAX (252) 399-2453  
www.wilsonnc.org

**VERTICAL OFFSET DETAIL**

SCALE: Not To Scale  
REVISION DATE: June, 2010  
DETAIL # 512.07  
SHEET # 1 of 1

Details Provided by APPIAN Consulting Engineers - www.applanengineers.com 05/06/2010 - 12:30:05 PM

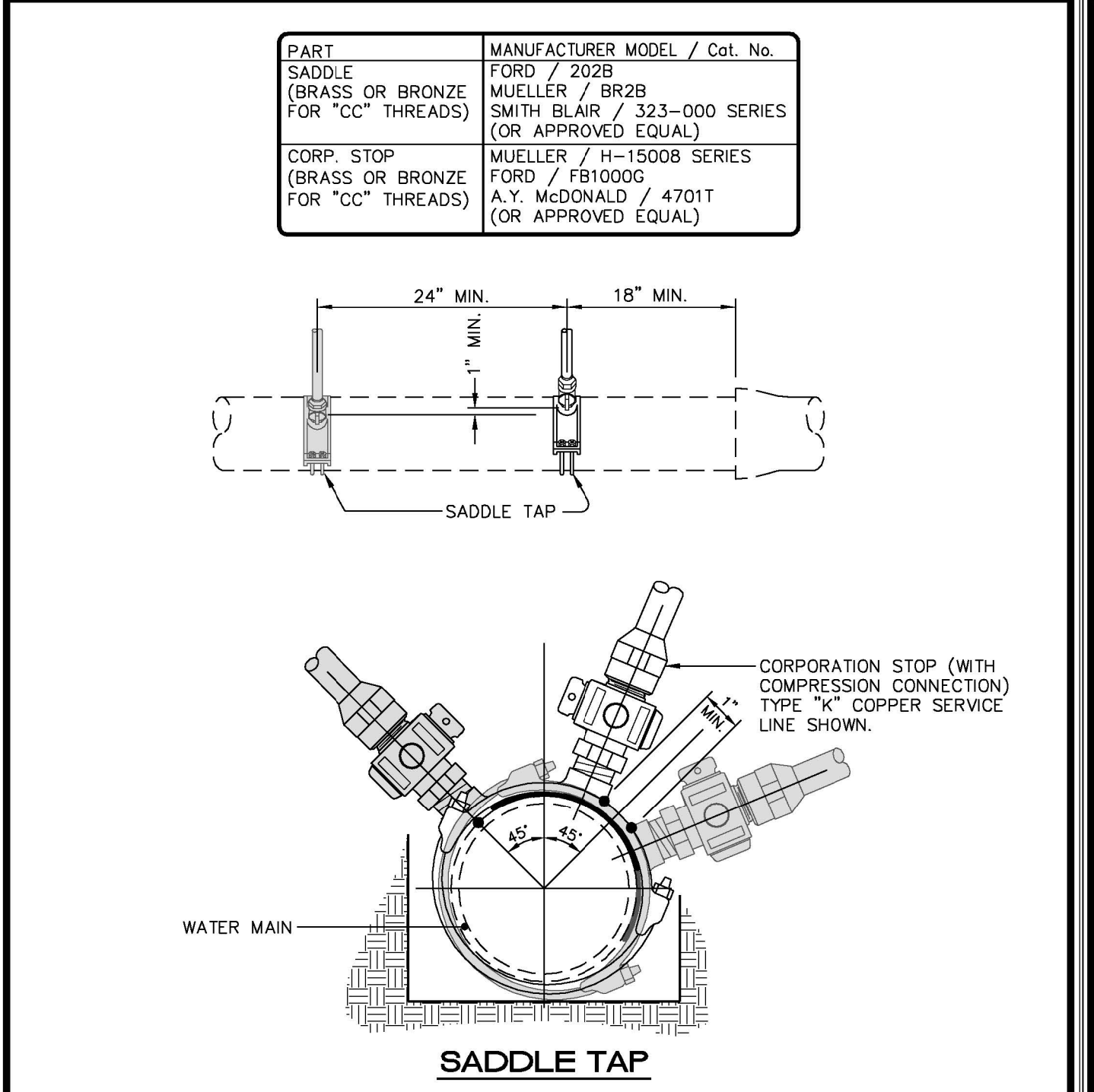


**CITY OF WILSON, N.C.**  
Public Services Departments  
1800 Herring Avenue, / P.O. Box 10  
Wilson, North Carolina 27894  
Voice (252) 399-2465  
FAX (252) 399-2453  
www.wilsonnc.org

**STANDARD SCREW VALVE BOX DETAIL**

SCALE: Not To Scale  
REVISION DATE: June, 2010  
DETAIL # 513.01  
SHEET # 1 of 1

Details Provided by APPIAN Consulting Engineers - www.applanengineers.com 05/06/2010 - 12:27:35 PM

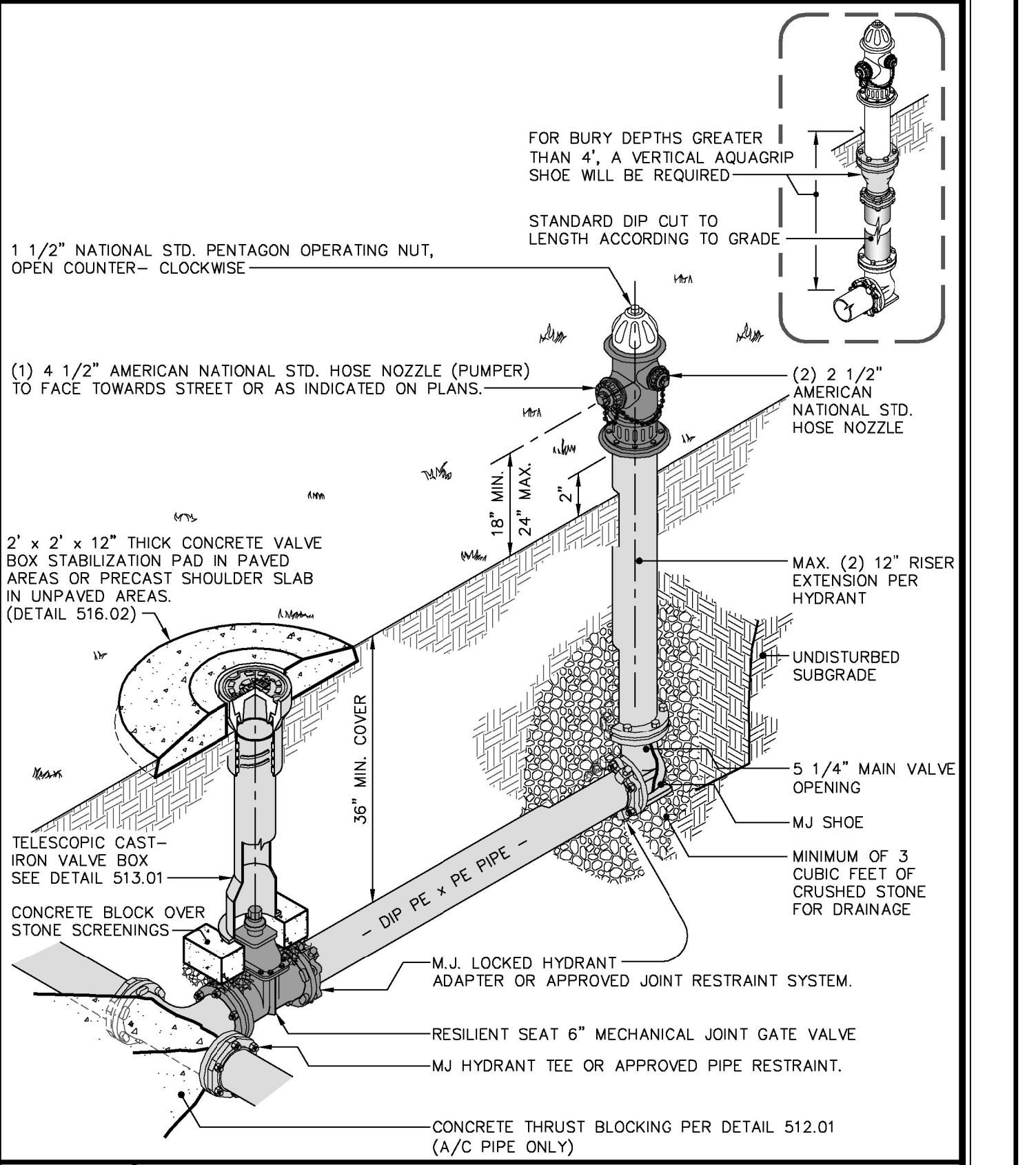


**CITY OF WILSON, N.C.**  
Public Services Departments  
1800 Herring Avenue, / P.O. Box 10  
Wilson, North Carolina 27894  
Voice (252) 399-2465  
FAX (252) 399-2453  
www.wilsonnc.org

**STANDARD WATER TAP DETAIL (1", 1 1/2", & 2" TAPS)**

SCALE: Not To Scale  
REVISION DATE: June, 2010  
DETAIL # 513.04  
SHEET # 1 of 1

Details Provided by APPIAN Consulting Engineers - www.applanengineers.com 03/08/2016 - 5:37:06 PM



**CITY OF WILSON, N.C.**  
Public Services Departments  
1800 Herring Avenue, / P.O. Box 10  
Wilson, North Carolina 27894  
Voice (252) 399-2465  
FAX (252) 399-2453  
www.wilsonnc.org

**STANDARD HYDRANT SETTING (NON-PAVED AREAS)**

SCALE: Not To Scale  
REVISION DATE: March, 2016  
DETAIL # 514.02  
SHEET # 1 of 1

5/14/99  
02-AUG-2017 13:21:49 UC-SHT\_02.dgn