DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

> R/W SHEET NO. UTILITIES ENGINEER

SHEET NO.

UC-II

PROJECT REFERENCE NO.

U-4910A

NC FIRM LICENSE No: F-0342

AECOM 701 Corporate Center Drive, Suite 4
Raleigh, NC 27607
(919) 854-6200 - (919) 854-6259(FAX)

UTILITY CONSTRUCTION

MAXIMUM TRENCH WIDTH AT TOP OF PIPE PIPE SIZE PIPE SIZE TRENCH WIDTH TRENCH WIDTH (inches) (inches) (inches) (inches)

# **EXISTING WATER** LINE -

EXISTING WATER LINE

## TRENCH & BACKFILL DETAIL

6" 0.D. OF PIPE 6"

12" O.D. OF PIPE 12"

FINISHED

BACKFILL

INITIAL BACKFILL

6" #67 STONE

WHEN ROCK IS

**ENCOUNTERED** 

GRADE

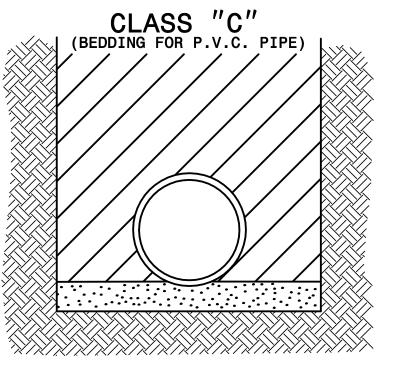
UNDISTURBED SOIL

MINIMUM SIDE

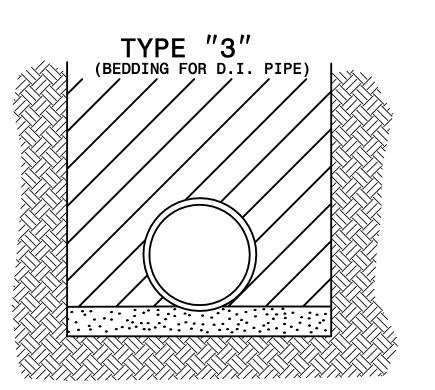
MAXIMUM SIDE

CLEARANCE

CLEARANCE



PIPE BEDDED IN LOOSE MATERIAL, LIGHTLY TAMPED WITH A MINIMUM OF 6" UNDER PIPE. 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 APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.



PIPE BEDDED IN 4" MINIMUM LOOSE SOIL. 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 APPROX. 95% DENSITY IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY THE DEPARTMENT OF TRANSPORTATION.

### PROPOSED GRADE **EXISTING WATER** LINE EXISTING WATER METER **EXISTING GRADE** -AND METER BOX EXISTING WATER MAIN EXISTING WATER MAIN PROPOSED WATER LINE HDPE SDR-9 OR TYPE K COPPER CORPORATION STOP

INSTALL FLUSH WITH

RELOCATED WATER METER

AND METER BOX (INSTALL

INSTALL FLUSH WITH

FINISHED GRADE

RELOCATED WATER METER

PROPOSED WATER LINE→

**CORPORATION STOP** 

1. RELOCATION SHALL INCLUDE THE REMOVAL AND INSTALLATION AT THE

2. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS

3. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUN OF

4. THE OWNER RESERVES THE RIGHT TO ADD OR DELETE WATER SERVICE TAPS

WATER METER RELOCATION DETAILS

12", MAXIMUM OF 24" COVER BELOW FINISHED GRADE.

AND TO CHANGE LOCATIONS FROM THOSE SHOWN.

METER VALVES, AND METER BOX WITH LID.

OR DIRECTED BY THE ENGINEER.

HDPE SDR-9 OR TYPE K COPPER

APPROPRIATE LOCATION OF THE WATER METER, CURB STOP & CLAMPING DEVICE,

AND METER BOX (INSTALL

IN NON TRAFFIC AREA ONLY)

CONNECT USING NECESSARY FITTINGS

1 CU. FT.

**WASHED STONE** 

1 CU. FT. WASHED STONE

CONNECT USING NECCESSARY FITTINGS

IN NON TRAFFIC AREA ONLY)

PROPOSED WATER LINE-

HDPE SDR-9 OR TYPE K COPPER

FINISHED GRADE

### NOTES:

PROPOSED WATER MAIN

PROPOSED GRADE -

PROPOSED GRADE

NOTES:

EXISTING WATER METER

PROPOSED WATER MAIN

AND METER BOX EXISTING WATER MAIN

EXISTING WATER METER

EXISTING WATER MAIN

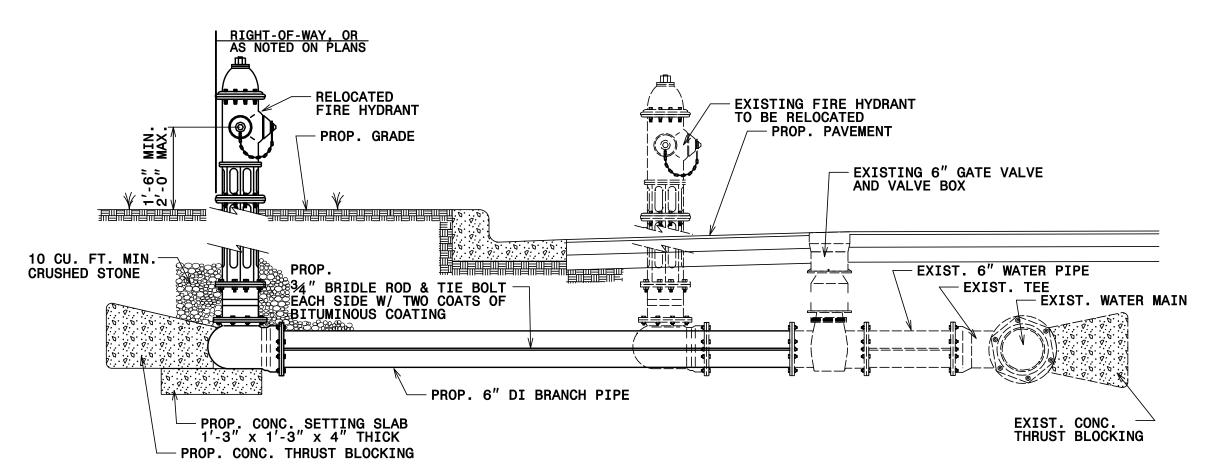
AND METER BOX

EXISTING GRADE —

EXISTING GRADE

- 1. THE NEW WATER SERVICE LINE SHALL BE OF THE SAME TYPE AND GRADE AS THE EXISTING WATER SERVICE LINE UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
- 2. THE NEW WATER SERVICE LINE SHALL BE INSTALLED WITH A MINIMUM OF 12", MAXIMUM OF 24" COVER BELOW FINISHED GRADE.

# RECONNECT EXISTING WATER METER DETAIL



FIRE HYDRANT RELOCATION DETAIL