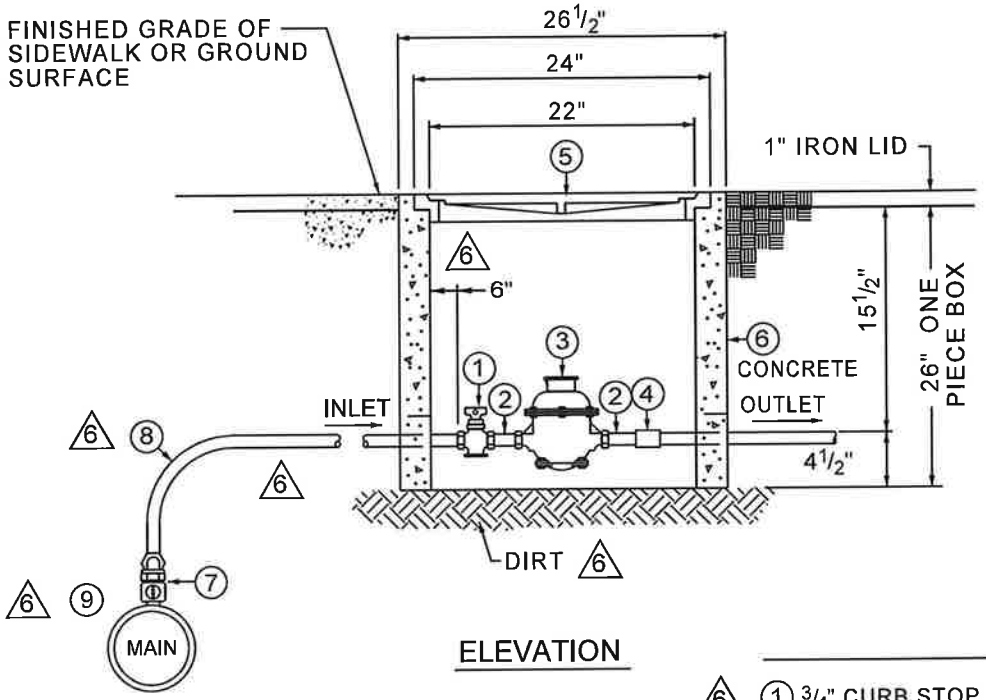

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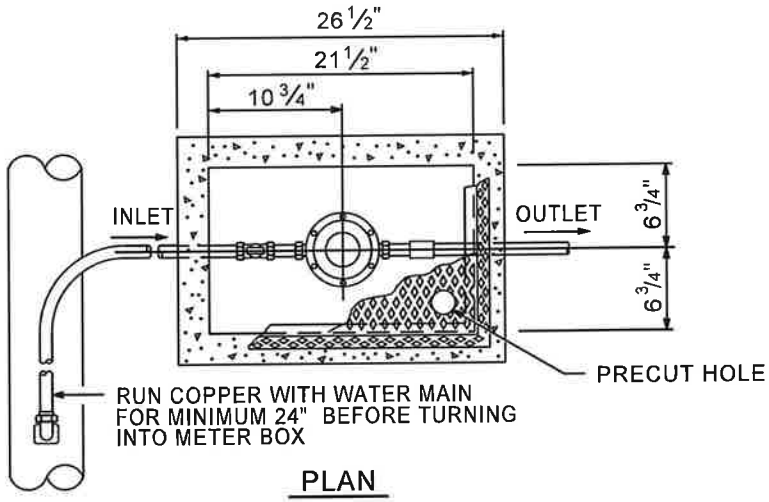


PLAN

MATERIAL SCHEDULE

6 (1) 3/4" CURB STOP
MUELLER: B-25163-N 3/4"
FORD: FB41-233W-Q-NL 3/4"

(2) 3/4" x 2 1/2" BRASS METER COUPLING (2)

(3) 5/8" x 3/4" METER NEPTUNE RADIO READ WITH ANTENNA.

(4) 3/4" BRASS COUPLING (OUTLET)

(5) C.I. METER BOX FRAME AND COVER WITH PRECUT HOLE AND CAP JOHN BOUCHARD #8110 NASHVILLE STANDARD OR APPROVED EQUAL WITH HOLE PRECUT INTO BOX AND PLASTIC CAP ON IT. (SHALL NOT BE IMPRINTED WITH THE NAME "METRO")

(6) 3/4" METER BOX, ONE PIECE PRE-CAST CONCRETE.

6 (7) 3/4" CORPORATION STOP
MUELLER: H-15030-N 3/4"
FORD: F600-3-LN-NL 3/4"
FORD: L04-33-Q-NL 3/4" 90° BEND

6 (8) SERVICE MATERIAL (SHEPARD HOOK)
3/4" 'K' TYPE SOFT COPPER TUBING

6 (9) (TAPPING SADDLE) C-900 MAIN CONNECTIONS ONLY. SMITH BLAIR #313 DOUBLE STRAP WITH 3/4" 'CC' THREADS. (FOR P.V.C. ONLY)

6 (10) ALL BACKFILL SHALL BE #57 STONE.

NOTES: 6

1. **ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING. TAPS WILL BE MADE WITHIN TWO WEEKS, WEATHER PERMITTING.**
2. **ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC.** 6 **METER BOX NEEDS TO BE 1" ABOVE FINISHED GRADE. PLACE METER IN GREEN SPACE.**
3. **CONNECTIONS:** 6 **ALL COPPER CONNECTIONS AND FITTINGS WILL BE COMPRESSION. USE TEFLON TAPE OR JOINT COMPOUND ON ALL THREADED CONNECTIONS.**
4. WASHERS WILL BE FIBER.
5. COPPER FROM MAIN TO METER SHALL BE ONE CONTINUOUS PIECE OF K COPPER.
6. ALL BOLTS SHALL BE STAINLESS STEEL.

MADISON SUBURBAN UTILITY DISTRICT

5/8" - 3/4" METER INSTALLATION

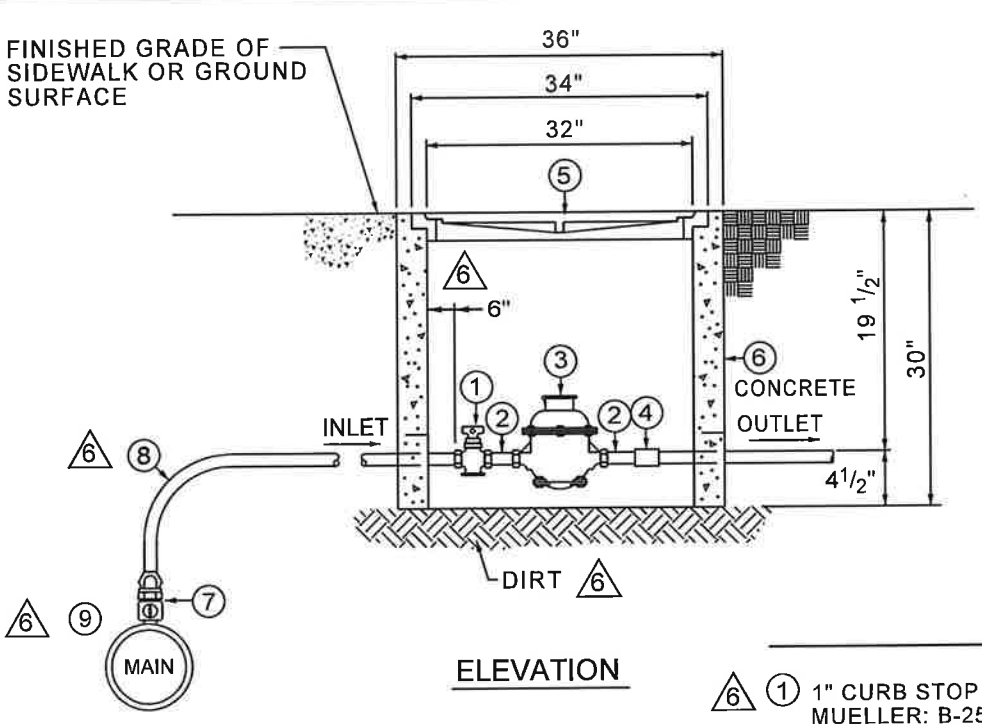
JVE / BWSC

Turner Professional Building
5100 Linbar Drive, Suite 106
Nashville, Tennessee 37211

SCALE: N.T.S.	SHEET NO. 1
DATE: 12/20/02	

M_SHEET_01

REVISED: 9/1/21 PER M.S.U.D. 6



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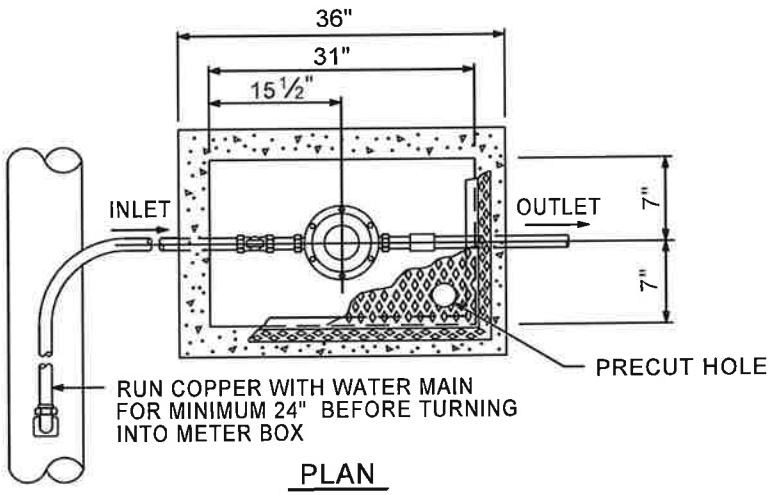


PLAN

MATERIAL SCHEDULE

6 (1) 1" CURB STOP
MUELLER: B-25163-N 1"
FORD: FB41-333W-Q-NL 1"

(2) 1" x 2 1/2" BRASS METER COUPLING (2)

(3) 1" METER NEPTUNE RADIO READ WITH ANTENNA.

(4) 1" BRASS COUPLING (OUTLET)

(5) C.I. METER BOX FRAME AND COVER WITH PRECUT HOLE AND CAP JOHN BOUCHARD #8120 NASHVILLE STANDARD OR APPROVED EQUAL WITH HOLE PRECUT INTO BOX AND PLASTIC CAP ON IT. (SHALL NOT BE IMPRINTED WITH THE NAME "METRO")

(6) 1" METER BOX, ONE PIECE PRE-CAST

6 (7) 1' CORPORATION STOP
MUELLER: H-15030-N 1"
FORD: F600-3-LN-NL 1"
FORD: L04-33-Q-NL 1" 90° BEND

6 (8) SERVICE MATERIAL (SHEPARDS HOOK)
1" 'K' TYPE SOFT COPPER TUBING

6 (9) (TAPPING SADDLE) C-900 MAIN CONNECTIONS ONLY. SMITH BLAIR #317 DOUBLE STRAP WITH 1" 'CC' THREADS. (FOR P.V.C. ONLY)

6 (10) ALL BACKFILL SHALL BE #57 STONE.

NOTES: 6

1. **ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING. TAPS WILL BE MADE WITHIN TWO WEEKS, WEATHER PERMITTING.**
2. **ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC.** 6 **METER BOX NEEDS TO BE 1" ABOVE FINISHED GRADE. PLACE METER IN GREEN SPACE.**
3. **CONNECTIONS: ALL COPPER CONNECTIONS AND FITTINGS WILL BE COMPRESSION. USE TEFLON TAPE OR JOINT COMPOUND ON ALL THREADED CONNECTIONS.**
4. WASHERS WILL BE FIBER.
5. COPPER FROM MAIN TO METER SHALL BE ONE CONTINUOUS PIECE OF K COPPER.
6. ALL BOLTS SHALL BE STAINLESS STEEL.

MADISON SUBURBAN UTILITY DISTRICT

1" METER INSTALLATION

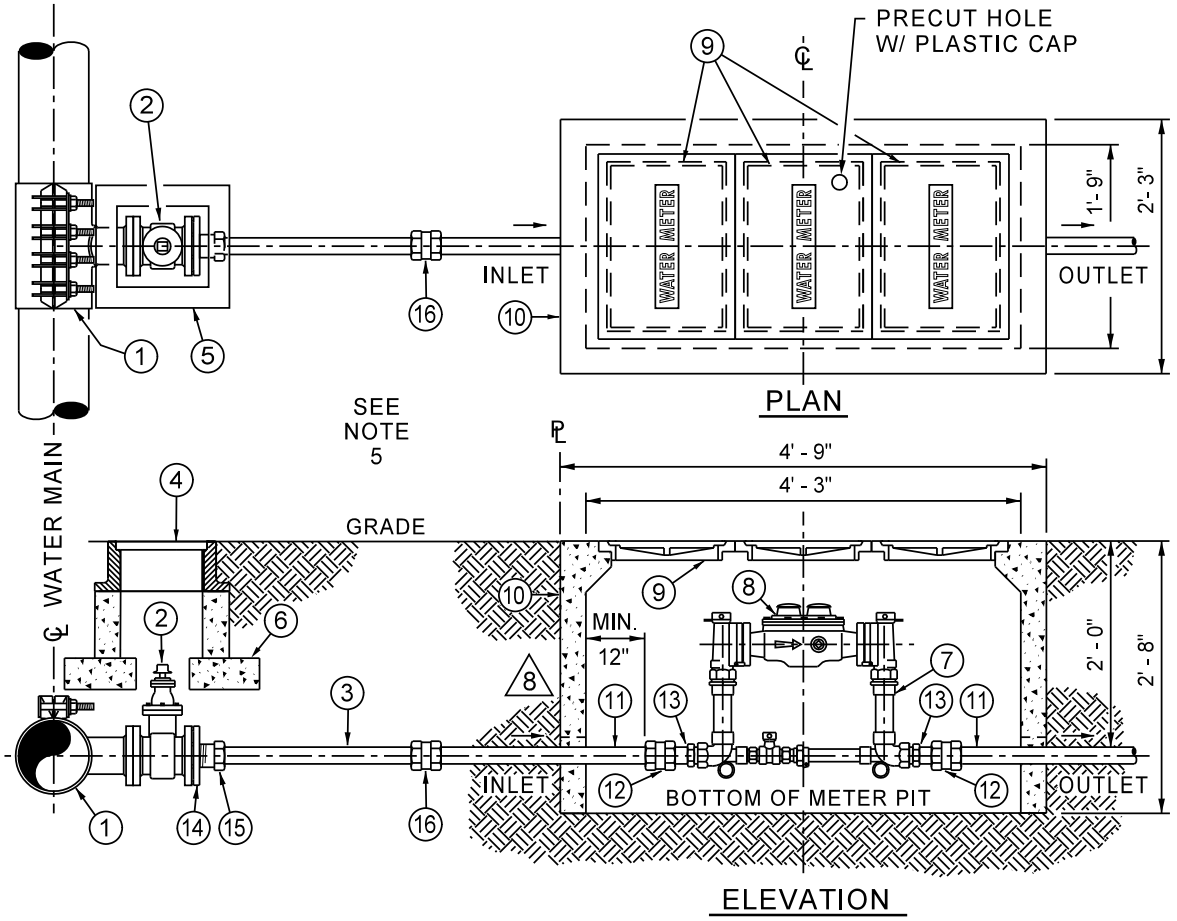
JVE / BWSC

Turner Professional Building
5100 Linbar Drive, Suite 106
Nashville, Tennessee 37211

SCALE: N.T.S.	SHEET NO. 2
DATE: 12/20/02	

M_SHEET_02

REVISED: 9/1/21 PER M.S.U.D. 6



MATERIAL SCHEDULE

1. TAPPING SLEEVE - PIPE SIZE BY 4" STAINLESS STEEL WRAP AROUND SLEEVE. (fordmeterbox.com)
2. 4" GATE VALVE FLG. x M.J. (TO BE BOLTED TO TAPPING SLEEVE) OPEN LEFT, RESILENT WEDGE, 2" SQUARE OPERATIONG NUT.
3. 2" 'K' TYPE COPPPER
4. C.I. VALVE BOX FRAME AND COVER (1) JOHN BOUCHARD #8006 NASHVILLE STANDARD OR APPROVED EQUAL
5. VALVE BOX, PRE-CAST CONCRETE (1)
6. 12"x 12"x 4" CONCRETE VALVE BOX FOOTING (4)
7. 2" COPPER SETTER - FORD VV77-12B-11-77 WITH BY-PASS, FEMALE IRON PIPE INLET AND OUTLET SERVICE CONNECTIONS ANGLE METER VALVES INLET AND OUTLET 12" HEIGHT.
8. 2" NEPTUNE RADIO READ WITH ANTENNA. (CUSTOMER SHALL PICK UP FROM M.S.U.D.). CUSTOMER IS RESPONSIBLE FOR METER DELIVERY
9. C.I. METER BOX FRAME AND COVER (3) ONE (1) WITH PRECUT HOLE. JOHN BOUCHARD #8110 NASHVILLE STANDARD OR APPROVED EQUAL (CANNOT SAY "METRO").
10. 2" METER BOX (NO BASE), PRE-CAST CONCRETE JARRET CONCRETE - 2012 TN12, ASHLAND CITY, TN, 37015- PHONE 615.792.9332
11. 2" X 24" BRASS NIPPLE
12. 2" BRASS UNION
13. CONNECTIONS TO COPPERSETTER: USE SMALL BRASS NIPPLE
14. 4" PLUG M.J. WITH 2" THREAD HOLE
15. 2" MALE THREADED BY 2" COMPRESSION FITTING
16. 2" FEMALE X FEMALE THREADED COUPLING
17. ALL BACKFILL SHALL BE #57 STONE.

△8 — ITEM 11 REVISED PER M.S.U.D.

NOTES:

1. **ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING.**
2. **ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC. METER BOX NEEDS TO BE 1" ABOVE FINISHED GRADE. PLACE METER IN GREEN SPACE.**
3. **CONNECTIONS:**
   ALL COPPER CONNECTIONS AND FITTINGS WILL BE COMPRESSION. USE TEFLON TAPE OR JOINT COMPOUND ON ALL THREADED CONNECTIONS.
4. WASHERS WILL BE FIBER OR RUBBER
5. THERE SHALL BE A MINIMUM DISTANCE OF 3'- 0" BETWEEN THE OUTER EDGE OF THE METER BOX AND ANY OTHER UTILITIES, OR ABOVE-GROUND OR BELOW-GROUND STRUCTURES.
6. CONTACT M.S.U.D. FOR INFORMATION ON ITEM 8 IN THE MATERIAL SCHEDULE ABOVE. (2" NEPTUNE METER)
7. COPPER LINE SHALL BE ONE PIECE FROM VALVE TO FIRST COUPLING AND FROM COUPLING TO COPPER SETTER.
8. CROSS STREET WILL ADD 2" GATE VALVE ON M.S.U.D. SIDE OF BOX.

2" TAP & METER SAME SIDE AS MAIN

MADISON SUBURBAN UTILITY DISTRICT

2" METER INSTALLATION

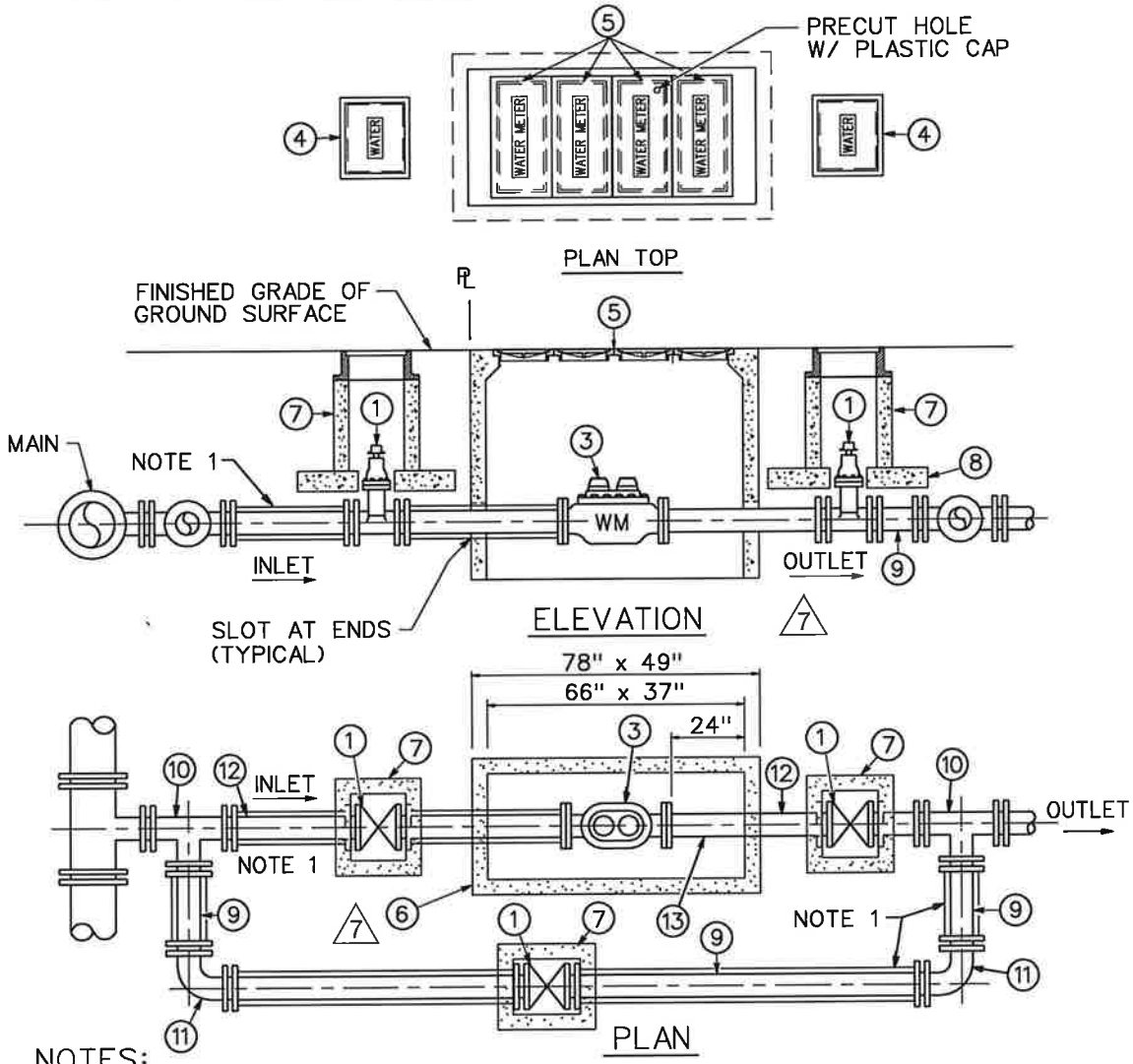
JVE / BWSC

3414 Old Franklin Road
Antioch, Tennessee 37013

SCALE: N.T.S.	SHEET NO. 3
DATE: 12/20/02	

M_SHEET_03

REVISED: 2/23/26 PER M.S.U.D. △8



MATERIAL SCHEDULE

1. 4" GATE VALVE (4)
   OPEN LEFT, RESILIENT WEDGE
   2" SQUARE OPERATING NUT
2. ITEM WAS DELETED BY M.S.U.D.
3. 4" METER NEPTUNE RADIO READ WITH ANTENNA.
   INDICATING IN CUBIC FEET - DUAL REGISTERS.
4. C.I. VALVE BOX FRAME AND COVER (3)
   JOHN BOUCHARD #8006 NASHVILLE
   STANDARD OR APPROVED EQUAL
5. C.I. METER BOX FRAME AND COVER (4)
   ONE (1) COVER WITH PRECUT HOLE.
   JOHN BOUCHARD #8110 NASHVILLE
   STANDARD OR APPROVED EQUAL
6. 4" METER BOX (NO BASE), PRE-CAST CONCRETE (7)
7. VALVE BOX, PRE-CAST CONCRETE (3)
8. 12"x12"x4" CONCRETE VALVE BOX FOOTING (12)
9. PIPE MATERIAL
   4" CLASS 52 DUCTILE IRON PIPE
10. 4" x 4" x 4" M.J. TEE (2)
11. 4" - 90° M.J. BEND (2)
12. 4" - F.E.P.E. DUCTILE IRON PIPE (2)
13. 24" OF UNINTERRUPTED PIPE FOR TESTING
14. ITEM WAS DELETED BY M.S.U.D.

NOTES:

1. JOINT RESTRAINT:
   ALL FITTINGS WILL BE RODDED OR MEGALUG FROM MAIN TO METER AND ALONG THE COMPLETE BY-PASS LINE FROM TEE. TO TEE. RODS WILL BE ¾" DIAMETER FULLY THREADED STAINLESS STEEL RODS W/ STAINLESS STEEL NUTS.
2. FITTINGS:
   ALL FITTINGS INSIDE VAULT WILL BE FLANGED FITTINGS. ALL FITTINGS OUTSIDE VAULT WILL BE MECHANICAL JOINT FITTINGS.
3. ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING.
4. CONTRACTOR IS REQUIRED TO INSTALL A PRESSURE REDUCING VALVE (PRV) ON THE WATER USER'S SIDE OF THE METER OUTSIDE THE METER BOX FOR INSTALLATIONS WHICH HAVE A STATIC PRESSURE (NO WATER FLOW) OF 100 POUNDS PER SQUARE INCH (PSI) OR GREATER. THE WATER USER SHALL BE RESPONSIBLE FOR MAINTAINING THE PRV IN A GOOD WORKING CONDITION. M.S.U.D. IS NOT RESPONSIBLE FOR REPLACING ANY PORTION OF THE PRV.
5. ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC.

MADISON SUBURBAN UTILITY DISTRICT

4" METER INSTALLATION

JVE / BWSC

3414 Old Franklin Road
Antioch, Tennessee 37013

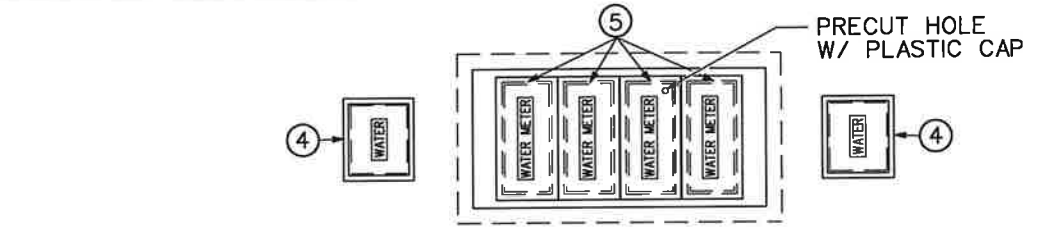
SCALE: N.T.S.

DATE: 12/20/02

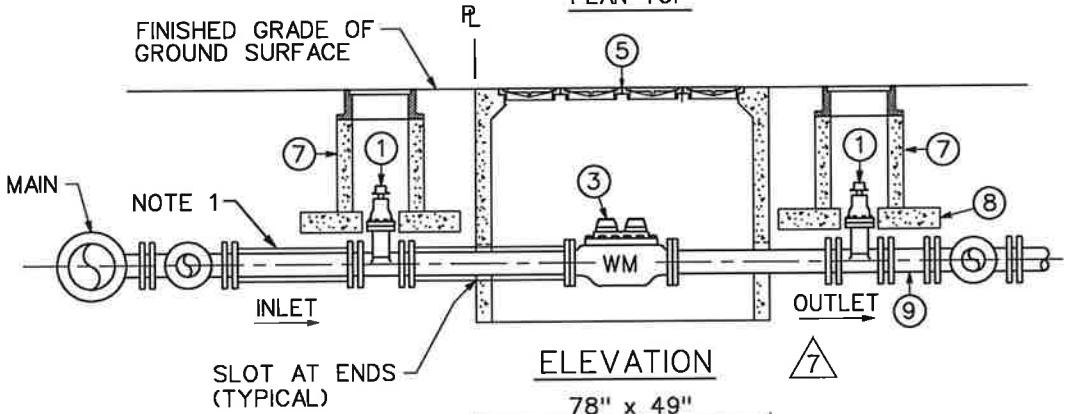
SHEET NO. 5

M_SHEET_05

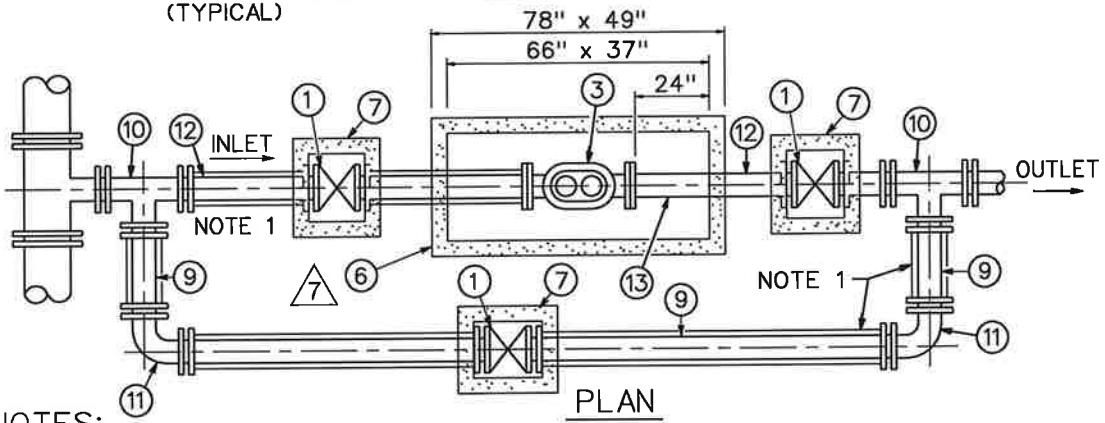
REVISED: 5/13/24 PER M.S.U.D. (7)



PLAN TOP



ELEVATION



PLAN

MATERIAL SCHEDULE

1. 6" GATE VALVE (4)
   OPEN LEFT, RESILIENT WEDGE
   2" SQUARE OPERATING NUT
2. ITEM WAS DELETED BY M.S.U.D.
3. 6" METER NEPTUNE RADIO READ WITH ANTENNA.
   INDICATING IN CUBIC FEET - DUAL REGISTERS.
4. C.I. VALVE BOX FRAME AND COVER (3)
   JOHN BOUCHARD #8006 NASHVILLE
   STANDARD OR APPROVED EQUAL
5. C.I. METER BOX FRAME AND COVER (4)
   ONE (1) COVER WITH PRECUT HOLE.
   JOHN BOUCHARD #8110 NASHVILLE
   STANDARD OR APPROVED EQUAL
6. 4" METER BOX (NO BASE), PRE-CAST CONCRETE △7
7. VALVE BOX, PRE-CAST CONCRETE (3)
8. 12"x12"x4" CONCRETE VALVE BOX FOOTING (12)
9. PIPE MATERIAL
   6" CLASS 52 DUCTILE IRON PIPE
10. 6" x 6" x 6" M.J. TEE (2)
11. 6" - 90° M.J. BEND (2)
12. 6" - F.E.P.E. DUCTILE IRON PIPE (2)
13. 24" OF UNINTERRUPTED PIPE FOR TESTING
14. ITEM WAS DELETED BY M.S.U.D.

NOTES:

1. JOINT RESTRAINT:
   ALL FITTINGS WILL BE RODDED OR MEGALUG FROM MAIN TO METER AND ALONG THE COMPLETE BY-PASS LINE FROM TEE. TO TEE. RODS WILL BE ¾" DIAMETER FULLY THREADED STAINLESS STEEL RODS W/ STAINLESS STEEL NUTS.
2. FITTINGS:
   ALL FITTINGS INSIDE VAULT WILL BE FLANGED FITTINGS. ALL FITTINGS OUTSIDE VAULT WILL BE MECHANICAL JOINT FITTINGS.
3. ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING.
4. CONTRACTOR IS REQUIRED TO INSTALL A PRESSURE REDUCING VALVE (PRV) ON THE WATER USER'S SIDE OF THE METER OUTSIDE THE METER BOX FOR INSTALLATIONS WHICH HAVE A STATIC PRESSURE (NO WATER FLOW) OF 100 POUNDS PER SQUARE INCH (PSI) OR GREATER. THE WATER USER SHALL BE RESPONSIBLE FOR MAINTAINING THE PRV IN A GOOD WORKING CONDITION. M.S.U.D. IS NOT RESPONSIBLE FOR REPLACING ANY PORTION OF THE PRV.
5. ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC.

MADISON SUBURBAN UTILITY DISTRICT

6" METER INSTALLATION

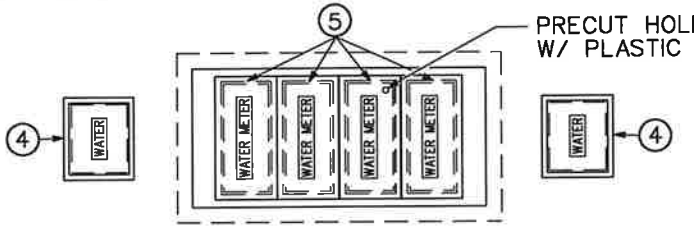
JVE / BWSC

3414 Old Franklin Road
Antioch, Tennessee 37013

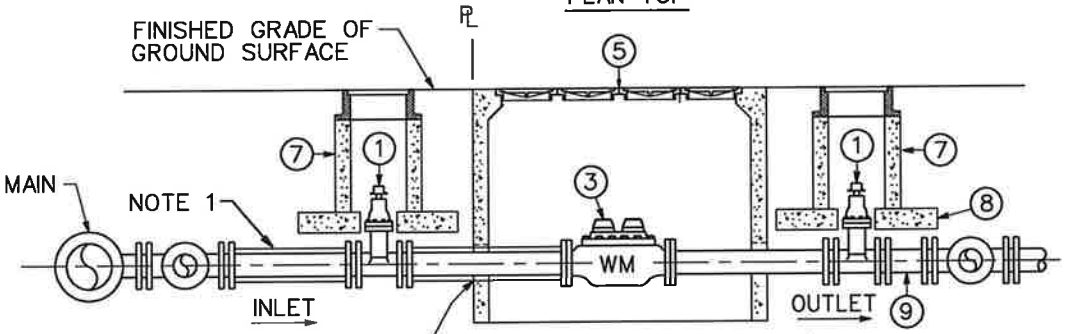
SCALE: N.T.S.	SHEET NO. 6
DATE: 12/20/02	

M_SHEET_06

REVISED: 5/13/24 PER M.S.U.D. △7

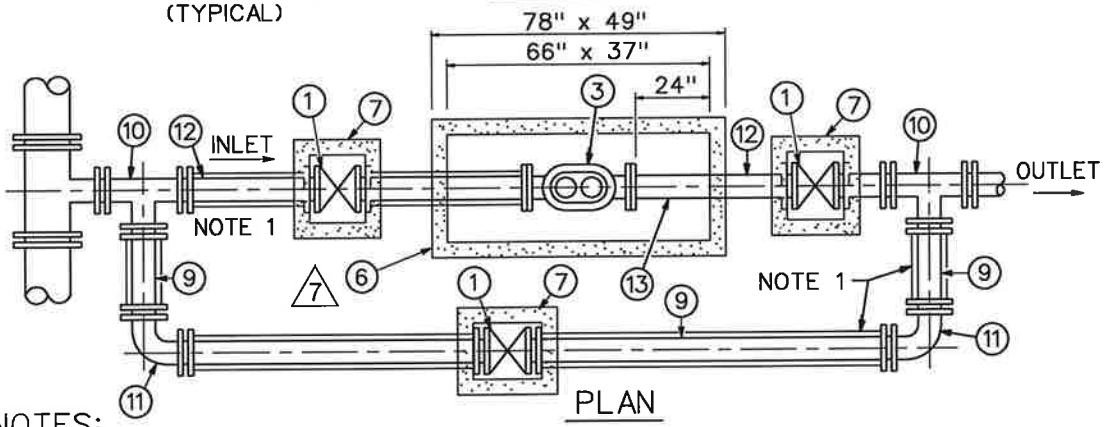


PLAN TOP



ELEVATION

7



PLAN

MATERIAL SCHEDULE

1. 8" GATE VALVE (4)
   OPEN LEFT, RESILIENT WEDGE
   2" SQUARE OPERATING NUT
2. ITEM WAS DELETED BY M.S.U.D.
3. 8" METER NEPTUNE RADIO READ WITH ANTENNA.
   INDICATING IN CUBIC FEET - DUAL REGISTERS.
4. C.I. VALVE BOX FRAME AND COVER (3)
   JOHN BOUCHARD #8006 NASHVILLE
   STANDARD OR APPROVED EQUAL
5. C.I. METER BOX FRAME AND COVER (4)
   ONE (1) COVER WITH PRECUT HOLE.
   JOHN BOUCHARD #8110 NASHVILLE
   STANDARD OR APPROVED EQUAL
6. 4" METER BOX (NO BASE), PRE-CAST CONCRETE (7)
7. VALVE BOX, PRE-CAST CONCRETE (3)
8. 12"x12"x4" CONCRETE VALVE BOX FOOTING (12)
9. PIPE MATERIAL
   8" CLASS 52 DUCTILE IRON PIPE
10. 8" x 8" x 8" M.J. TEE (2)
11. 8" - 90° M.J. BEND (2)
12. 8" - F.E.P.E. DUCTILE IRON PIPE (2)
13. 24" OF UNINTERRUPTED PIPE FOR TESTING
14. ITEM WAS DELETED BY M.S.U.D.

NOTES:

1. JOINT RESTRAINT:
   ALL FITTINGS WILL BE RODDED OR MEGALUG FROM MAIN TO METER AND ALONG THE COMPLETE BY-PASS LINE FROM TEE. TO TEE. RODS WILL BE 3/4" DIAMETER FULLY THREADED STAINLESS STEEL RODS W/ STAINLESS STEEL NUTS.
2. FITTINGS:
   ALL FITTINGS INSIDE VAULT WILL BE FLANGED FITTINGS. ALL FITTINGS OUTSIDE VAULT WILL BE MECHANICAL JOINT FITTINGS.
3. ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING.
4. CONTRACTOR IS REQUIRED TO INSTALL A PRESSURE REDUCING VALVE (PRV) ON THE WATER USER'S SIDE OF THE METER OUTSIDE THE METER BOX FOR INSTALLATIONS WHICH HAVE A STATIC PRESSURE (NO WATER FLOW) OF 100 POUNDS PER SQUARE INCH (PSI) OR GREATER. THE WATER USER SHALL BE RESPONSIBLE FOR MAINTAINING THE PRV IN A GOOD WORKING CONDITION. M.S.U.D. IS NOT RESPONSIBLE FOR REPLACING ANY PORTION OF THE PRV.
5. ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC.

MADISON SUBURBAN UTILITY DISTRICT

8" METER INSTALLATION

JVE / BWSC

3414 Old Franklin Road
Antioch, Tennessee 37013

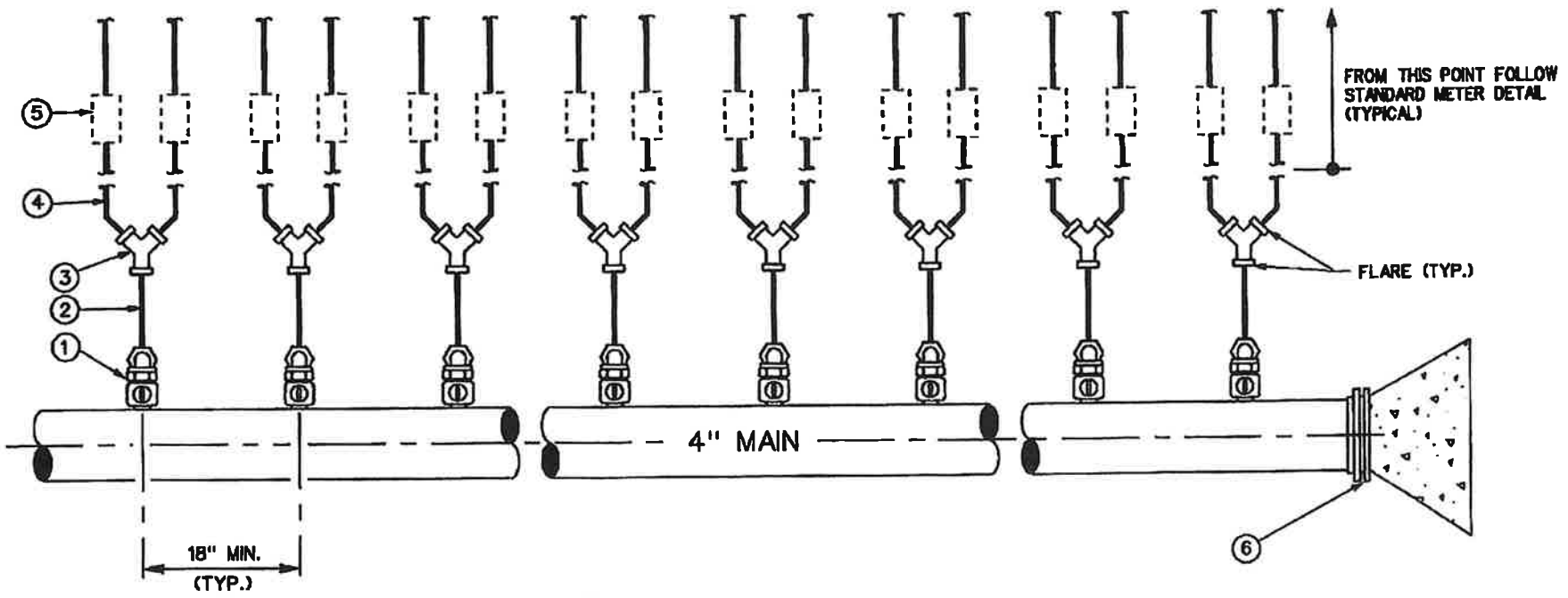
SCALE: N.T.S.

SHEET NO. 7

DATE: 12/20/02

M_SHEET_07

REVISED: 5/13/24 PER M.S.U.D. 7



MATERIAL SCHEDULE

1. MULTI - 1" CORPORATION STOPS. McDONALD 4701 WITH 4776S 90° BEND MUELLER H-15020
2. SERVICE MATERIAL 1" 'K' TYPE SOFT COPPER TUBING
3. 8 - 1" x ¾" WYES (FLARE)
4. ¾" 'K' TYPE SOFT COPPER TUBING
5. MULTI - ¾" METERS
6. 4" CAP W/KICKER

NOTES:

1. JOINT RESTRAINT: ALL FITTINGS WILL BE RODDED OR MEGALUG FROM MAIN TO METER. RODS WILL BE ¾" DIAMETER FULLY THREADED STAINLESS STEEL RODS.
2. FITTINGS: ALL FITTINGS INSIDE VAULT WILL BE FLANGED FITTINGS. ALL FITTINGS OUTSIDE VAULT WILL BE MECHANICAL JOINT FITTINGS.
3. ALL WORK TO BE INSPECTED BY M.S.U.D. AFTER WORK IS COMPLETE AND BEFORE BACKFILLING.
4. CONTRACTOR IS REQUIRED TO INSTALL A PRESSURE REDUCING VALVE (PRV) ON THE WATER USER'S SIDE OF THE METER OUTSIDE THE METER BOX FOR INSTALLATIONS WHICH HAVE A STATIC PRESSURE (NO WATER FLOW) OF 100 POUNDS PER SQUARE INCH (PSI) OR GREATER. THE WATER USER SHALL BE RESPONSIBLE FOR MAINTAINING THE PRV IN A GOOD WORKING CONDITION. M.S.U.D. IS NOT RESPONSIBLE FOR REPLACING ANY PORTION OF THE PRV.
5. ALL WATER METERS SHALL BE PLACED OUTSIDE OF ANY PAVED AREA SUCH AS DRIVEWAYS, ROADS, ETC.

MADISON SUBURBAN UTILITY DISTRICT

MANIFOLD SYSTEM FOR ¾" WATER SERVICE

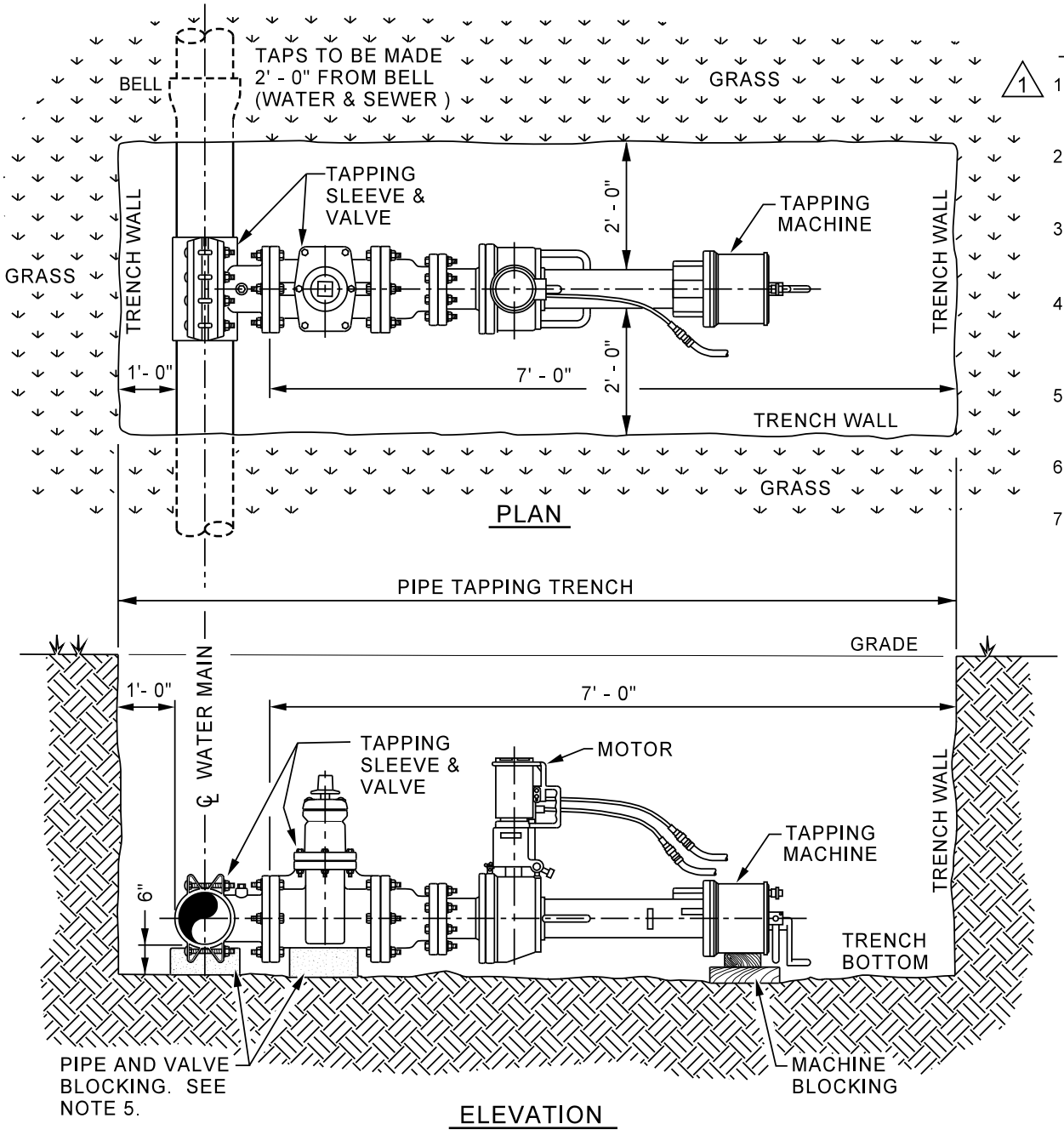
JMEWSC

Turner Professional Building
5100 Linbar Drive, Suite 106
Nashville, Tennessee 37211

SCALE: N.T.S.	SHEET NO. 10
DATE: 08/05/02	

REVISED: 02/03/03

MF_SHEET_10



NOTES:

1. THE CONTRACTOR OR PLUMBER SHALL BE RESPONSIBLE FOR ALL EXCAVATION OF WATER MAIN PRIOR TO THE TAP BEING MADE.
2. ALL TRENCHES 5' - 0" DEEP OR MORE SHALL HAVE SHORING OR TRENCH BOX TO FOLLOW ALL O.S.H.A. AND T.O.S.H.A. REGULATIONS.
3. THE CONTRACTOR SHALL PROVIDE LADDER FOR ACCESS TO THE EXCAVATED PIPE AND GRAVEL IF THE TRENCH IS MUDDY WHILE THE M.S.U.D. CREW IS ON SITE.
4. ALL TRENCHES FOR TAPPING SHALL BE 4' - 0" WIDE OR GREATER. 4' - 0 " OF PIPE IS TO BE EXPOSED WITH 1' - 0" CLEARANCE BEHIND THE PIPE AND 6" UNDER THE PIPE.
5. ALL TAPPING SLEEVES SHALL BE FORD - STAINLESS STEEL "FAST" (DIAMETER) - (TAP SIZE) M.J. OR EQUIVALENT APPROVED BY M.S.U.D.
6. ALL BLOCKS UNDER THE TAPPING VALVE SHALL BE STANDARD CONCRETE FOOTING BLOCKS.
7. ALL WATER SERVICE LINES AND VALVE BOXES SHALL BE IN GRASSY AREA (NOT IN DRIVEWAY OR SIDEWALK).

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Call before you dig.

MADISON SUBURBAN UTILITY DISTRICT

TAPPING MACHINE
TRENCH DIMENSIONS

JVE / BWSC

Turner Professional Building
5100 Linbar Drive, Suite 106
Nashville, Tennessee 37211

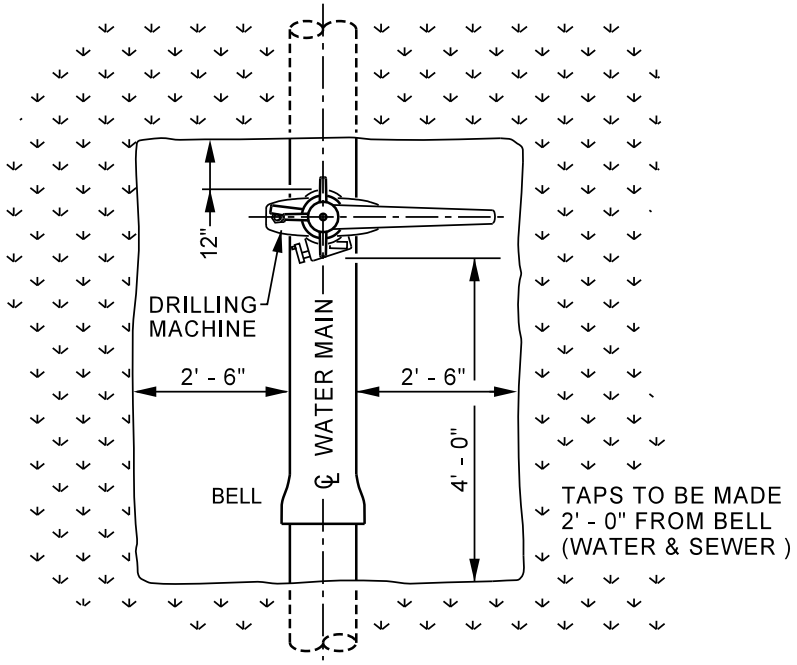
SCALE: N.T.S.

SHEET NO. 1

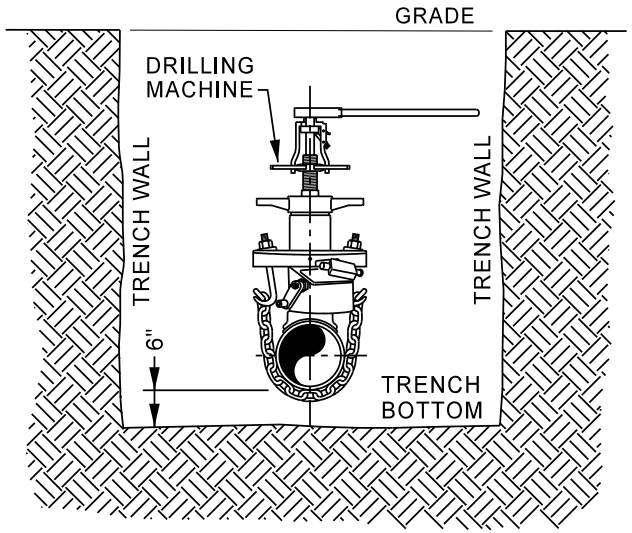
DATE: 4/14/22

TSVPIT_SHEET_01

REVISED: 10/26/26 PER M.S.U.D. 1



PLAN



ELEVATION

NOTES:

1. THE CONTRACTOR OR PLUMBER SHALL BE RESPONSIBLE FOR ALL EXCAVATION OF WATER MAIN PRIOR TO THE TAP BEING MADE.
2. ALL TRENCHES 5' - 0" DEEP OR GREATER SHALL HAVE SHORING OR TRENCH BOXES SET TO FOLLOW ALL O.S.H.A. AND T.O.S.H.A. REGULATIONS.
3. ALL TRENCHES FOR TAPPING SHALL BE 4' - 0" WIDE OR GREATER.
4. THE PLUMBER / CONTRACTOR SHALL PROVIDE APPROPRIATE SIZED SUMP PUMPS FOR EXCAVATED TRENCH DURING M.S.U.D. TAPPING PROCESS IF WATER IS PRESENT IN THE TRENCH.
5. THE PLUMBER / CONTRACTOR SHALL PROVIDE LADDER FOR ACCESS TO THE EXCAVATED PIPE AND GRAVEL IF THE TRENCH IS MUDDY WHILE THE M.S.U.D. CREW IS ON SITE.
6. ALL TAPS REQUIRE MINIMUM 6 INCH CLEARANCE UNDER MAIN FOR 4 FEET OF THE EXPOSED LINE.
7. ALL PUBLICLY OWNED WATER SERVICE LINES AND METER BOXES SHALL BE PLACED IN GRASSY AREA (NOT UNDER DRIVEWAYS).

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Nashville, Tennessee 37211

SCALE: N.T.S.	SHEET NO. 2
DATE: 5/3/22	

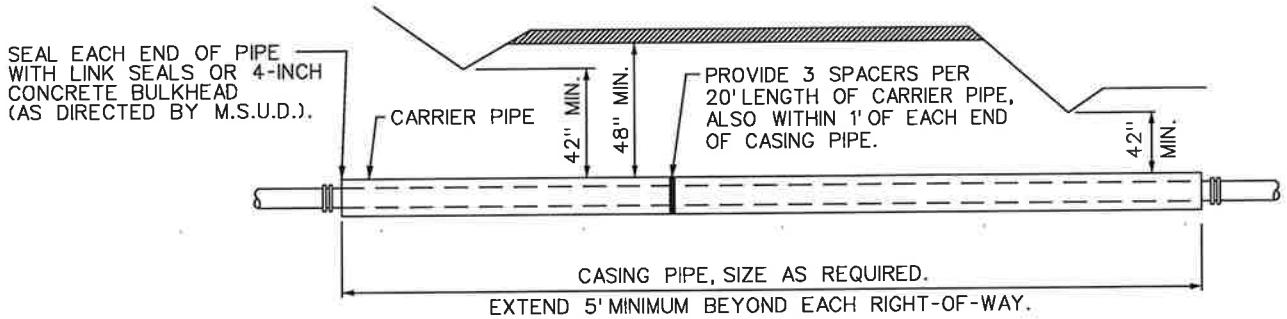
B101PIT_SHEET_02

REVISED: 10/26/26 PER M.S.U.D. 1

SPECIFICATIONS FOR PLACING PIPE WITHIN THE RIGHT-OF-WAY OR CROSSING STATE AND / OR U.S. HIGHWAYS.

1. ALL TRENCH EXCAVATION WITH-IN THE RIGHT-OF-WAY AND NOT UNDER PAVEMENT SHALL BE BACKFILLED BY TAMPING IN 6" LAYERS. ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY AND THE EXCAVATION FINISHED FLUSH WITH THE SURROUNDING GROUND.
2. HIGHWAY CROSSING UNDER PAVED ROADS AND PAVED CROSSROADS WITHIN THE STATE AND U.S. HIGHWAY RIGHT-OF-WAY SHALL BE ENCASED AND PLACED BY SLOPE TO TOE BORING OR JACKING. BORING OR JACKING SHALL EXTEND FROM THE TOE OF SHOULDER SLOPE TO TOE OF SHOULDER SLOPE. ON LINES CROSSING THE ENTIRE WIDTH OF RIGHT-OF-WAY, THE LENGTH OF CASING SHALL BE DETERMINED BY THE DIVISION ENGINEER, TENNESSEE HIGHWAY DEPARTMENT. ALL BORING AND JACKING SHALL BE DONE AS SHOWN ON THIS DRAWING.
3. WHERE IT IS EVIDENT THAT BORING IS IMPRACTICAL DUE TO ROCK OR OTHER OBSTRUCTION THE DIVISION ENGINEER MAY GRANT PERMISSION TO OPEN CUT THE PAVING. WHERE OPEN CUT IS ALLOWED THE FOLLOWING CONDITIONS WILL BE MET:
   (A) ALL BACKFILL MATERIAL WILL BE STABILIZED WITH PORTLAND CEMENT AND MIXED IN A CONCRETE MIXER. IF SOIL IS USED, IT SHALL BE A SANDY MATERIAL FREE FROM LUMPS OR CLODS, AND SHALL BE STABILIZED WITH TWO (2) SACKS OF CEMENT PER CUBIC YARD OF SOIL. IF SAND AND GRAVEL ARE USED, PIT RUN MATERIAL MAY BE USED AND IT SHALL BE STABILIZED WITH ONE (1) SACK OF CEMENT PER CUBIC YARD. BACKFILL MUST BE TAMPED IN A MOIST CONDITION.
   (B) ONE HALF OF THE TRAVELED PORTION OF PAVING MUST BE OPEN TO TRAFFIC AT ALL TIMES.
   (C) OPEN CUTTING OF PAVEMENT SHALL BE DONE IN THE MANNER AND SEQUENCE AS PER TYPICAL HIGHWAY CROSSING OPEN CUT DETAIL.
4. CASING PIPE SHALL BE SPIRAL WELDED STEEL PIPE APPLICABLE AND SUITABLE TO METHOD OF INSTALLATION EMPLOYED, WITH A MINIMUM STRENGTH OF 35,000 PSI.
5. WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILL OPERATION, SUCH AREAS SHALL BE RESEEDED IN ACCORDANCE WITH SECTION 801 OF THE TENNESSEE DEPT. OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD CONSTRUCTION (LATEST EDITION). A SEPARATE PAYMENT SHALL BE MADE FOR SEEDING.
6. CARRIER PIPE FOR ALL LINES SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINT FITTINGS AS SPECIFIED ON THE PLANS.
7. ALL CARRIER PIPE THRU CASING PIPE SHALL BE DUCTILE IRON PIPE WITH RESTRAINED (PER M.S.U.D.) MECHANICAL JOINTS.

CARRIER PIPE	STEEL CASING PIPE	
	DIA. (INCHES)	WALL THICKNESS
16"	30"	.4375"
14"&12"	24"	.375"
10"	20"	.3125"
8"	16"	.250"
6"	12"	.250"
4"	8"	.250"
2¼" C.I.	8"	.250"
2"	3"	.216"
1½"	2½"	.203"
1¼"	2½"	
1"	2"	
¾"	1¼"	



PROFILE BORING OR JACKING

N.T.S.

MADISON SUBURBAN UTILITY DISTRICT

PROFILE BORING OR JACKING

JVE / BWSC

Turner Professional Building
5100 Linbar Drive, Suite 106
Nashville, Tennessee 37211

SCALE: NONE

DATE: 03/30/04

SHEET NO. 1

BORE_SHEET_01