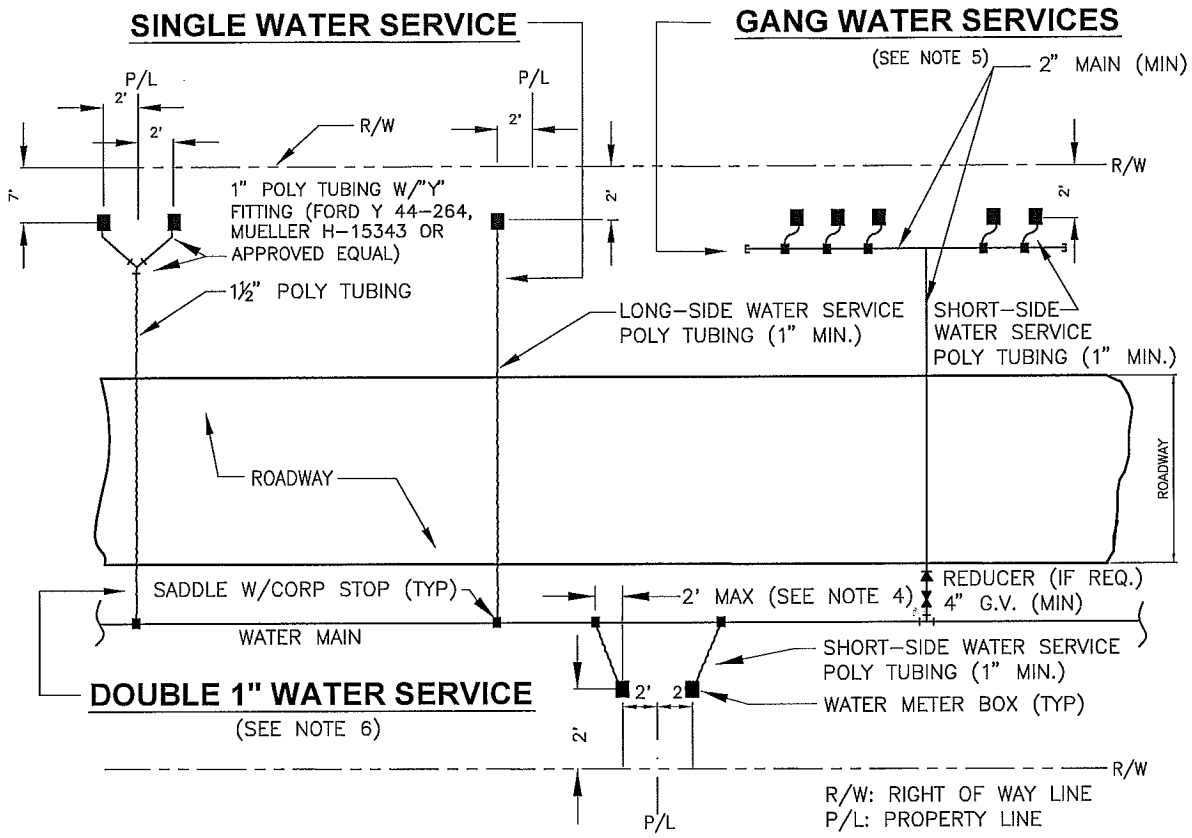
WATER CONSTRUCTION DETAILS

APPENDIX B

WATER CONSTRUCTION DETAILS
INDEX

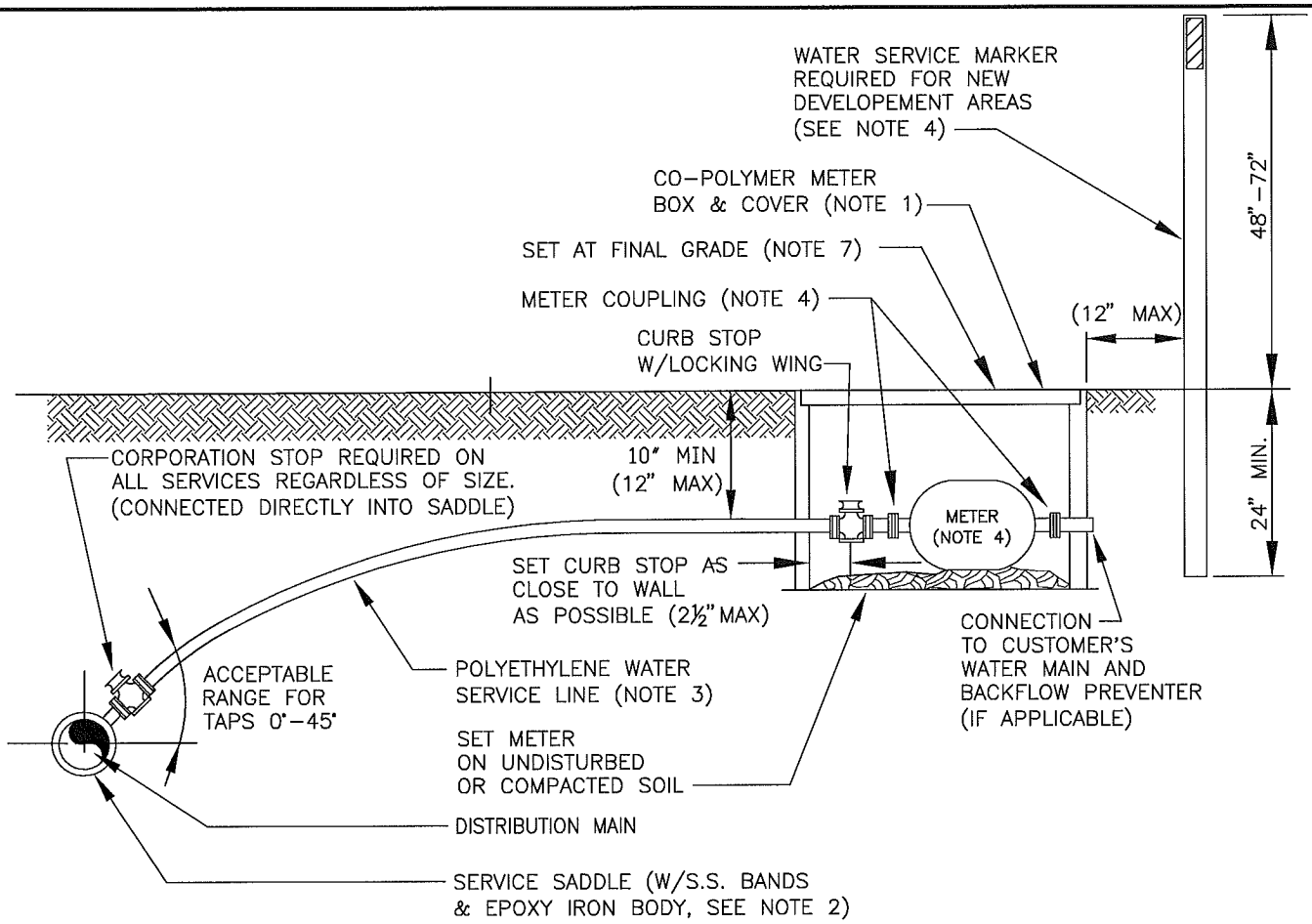


NOTES:

1. THE SKETCHES ABOVE INDICATE TYPICAL WATER SERVICE AND METER BOX LOCATIONS. ACTUAL LOCATIONS OF BOXES MAY VARY SLIGHTLY ACCORDING TO FIELD CONDITIONS ENCOUNTERED.
2. UNLESS SPECIFIED OTHERWISE BY THE APPLICABLE COUNTY, THE METER BOX SHALL BE LOCATED IN THE CITY RIGHT-OF-WAY, TWO FEET OUTSIDE OF THE PROPERTY LINE AND TWO FEET INSIDE OF THE PROLONGATION OF ONE OF THE SIDE PROPERTY LINES. IF A CONFLICT EXISTS WITH OTHER UTILITIES, THE METER BOX MAY BE ADJUSTED TO FOUR FEET (MAX.) INSIDE PROPERTY LINES (IN LIEU OF TWO FEET). UNLESS APPROVED OTHERWISE BY THE COUNTY, THE WATER METER BOX SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN SIDEWALKS OR DRIVEWAYS). IF THE METER BOX IS APPROVED BY THE COUNTY TO BE LOCATED IN A DRIVEWAY OR SIDEWALK, THEN THE CONSTRUCTION SHALL MEET STANDARD DETAIL NUMBERS W-3&4, AT A MINIMUM (SEE W-3 AND W-4 FOR THE REQUIREMENTS OF SPECIAL ORDER POLYMER BOX AND METAL TOP) . SET TOP OF BOX AT FINISHED GRADE. IF AN UNAPPROVED METER BOX IS IDENTIFIED BY THE COUNTY, THEN THE DEVELOPER SHALL BE RESPONSIBLE FOR THE COST OF RELOCATING ANY METER BOX WHICH IS LOCATED IN THE SIDEWALK OR DRIVEWAY OR THE COST TO PROVIDE THE CORRECT METER BOX. THE COUNTY SHALL APPROVE ALL DEVIATIONS TO THE ABOVE PRIOR TO CONSTRUCTION.
3. IF EASEMENT LOCATED BETWEEN LOTS, METERS TO BE LOCATED 4' OUTSIDE OF EASEMENT LINE.
4. FOR SINGLE SERVICES, THE HORIZONTAL DISTANCE (PERPENDICULAR TO THE MAIN) BETWEEN THE SERVICES SADDLE AND THE METER BOX SHALL BE 2 FEET MAXIMUM. FOR DOUBLE 1" SERVICES, THE 1 1/2" POLY MAIN SHALL BE LOCATED CENTERED BETWEEN THE TWO METER BOXES.
5. GANG WATER SERVICES: FOR 5 OR MORE SERVICES IN ONE AREA, A WATER MAIN W/LOCATE WIRE MAY BE EXTENDED ACROSS THE ROAD FOR LONG SIDE SERVICES WHERE SHOWN ON THE DRAWINGS (TAPS STAGGERED AND AT 2 FEET ON CENTER-MIN). EXAMPLE: CONSTRUCT A 2" MAIN CROSSING THE STREET FOR 5 RESIDENTIAL CUSTOMERS, UTILIZING 4" G.V., REDUCER, 2" PIPE, 2"X1" SADDLES AND 1" CORP STOPS. IF MORE THAN 5 CUSTOMERS, THE MAIN MUST BE LARGER THAN 2" SIZE.
6. A 1" IRRIGATION SERVICE MAYBE TAPPED INTO THE (1" MIN) DOMESTIC WATER SERVICE LINE (WHICH SERVES THE SAME CUSTOMER) UTILIZING A 1" BRONZE "Y" FITTING.
7. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
8. RECLAIMED WATER METER BOXES OR SERVICES SHALL BE CONSTRUCTED SIMILAR TO THE ABOVE AND SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE CUSTOMER'S PROPERTY FROM THE POTABLE WATER SERVICE, UNLESS APPROVED OTHERWISE BY THE COUNTY.
9. ALL SERVICES ACROSS PONDS SHALL BE HORIZONTALLY DIRECTIONALLY DRILLED, JACKED OR BORED AND\JACKED. CUTTING PAVEMENT IS NOT ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY.

W-1
WATER SERVICE INSTALLALTIONS 2" AND SMALLER METER

16810-125-01
Plotted: 10/26/06 10:24am DPAIR



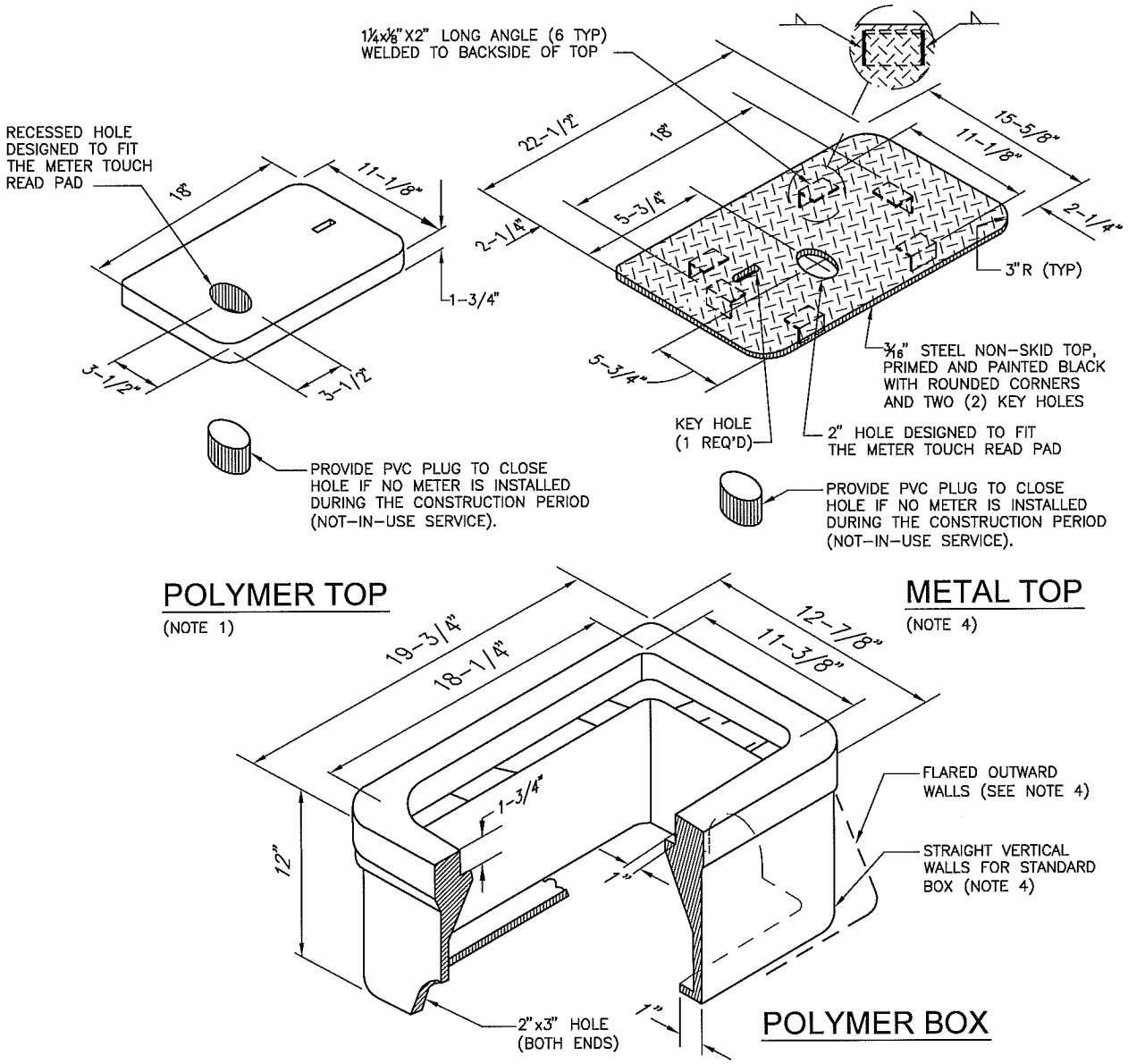
NOTES:

1. SEE W-1 FOR METER LOCATION REQUIREMENTS.
2. A DOUBLE BAND SADDLE IS REQUIRED ON ALL SERVICES.
3. NO OPEN CUT UNDER ROADWAY PAVING ALLOWED UNLESS THE ROADWAY IS BEING RECONSTRUCTED OR IF DIRECTED OTHERWISE BY THE COUNTY CONSTRUCT POLY LINE WITH 24" (MIN.) COVER UNDER ROADWAYS.
4. INSTALL PVC PLUG IN ALL CURB STOPS IF WATER SERVICE IS "NOT IN USE" (I.E.: IF NO METER IS INSTALLED). WATER SERVICES SERVING VACANT LOTS (SERVICE NOT IN USE), SHALL INCLUDE A "W" CUT INTO THE CURB (CLOSEST TO THE METER BOX), AND PAINTED BLUE. IN ADDITION, FOR NEW DEVELOPMENT AREAS WHERE THE WATER SERVICE IS "NOT IN USE", A LANDSCAPE TIMBER OR 3x3 MIN. P.T. POST (TOP PAINTED BLUE) SHALL BE INSTALLED TO MARK THE LOCATION OF THE METER BOX. THE REMOVAL OR TRANSFER OF A WATER SERVICE SHALL INCLUDE BRASS METER COUPLINGS (HEX ON BARREL TYPE).
5. No 2" AND SMALLER WATER SERVICE TAPS PERMITTED ON WATER MAINS WHICH ARE 20" AND LARGER SIZE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF THE METER OR ELECTRONIC DEVICES IF DAMAGED BY THE CONTRACTOR DURING THE CONSTRUCTION PERIOD.
7. METER BOX AND TOP SHALL BE CLEAR OF ALL DEBRIS TO ALLOW FULL ACCESS TO BOX (i.e. NO DIRT, TRASH OR OTHER DEBRIS PLACED ON TOP OF BOX).

W-2
WATER SERVICE DETAIL 2" AND SMALLER METER

N:\16810 Putman Co\12501\Figures\Water\1681012501-W02.DWG

16810-125-01
Plotted: 10/27/06 8:42am DPAIR
N:\16810 Putnam Co\12501\Figures\Water\16810125O1-W03.Dwg

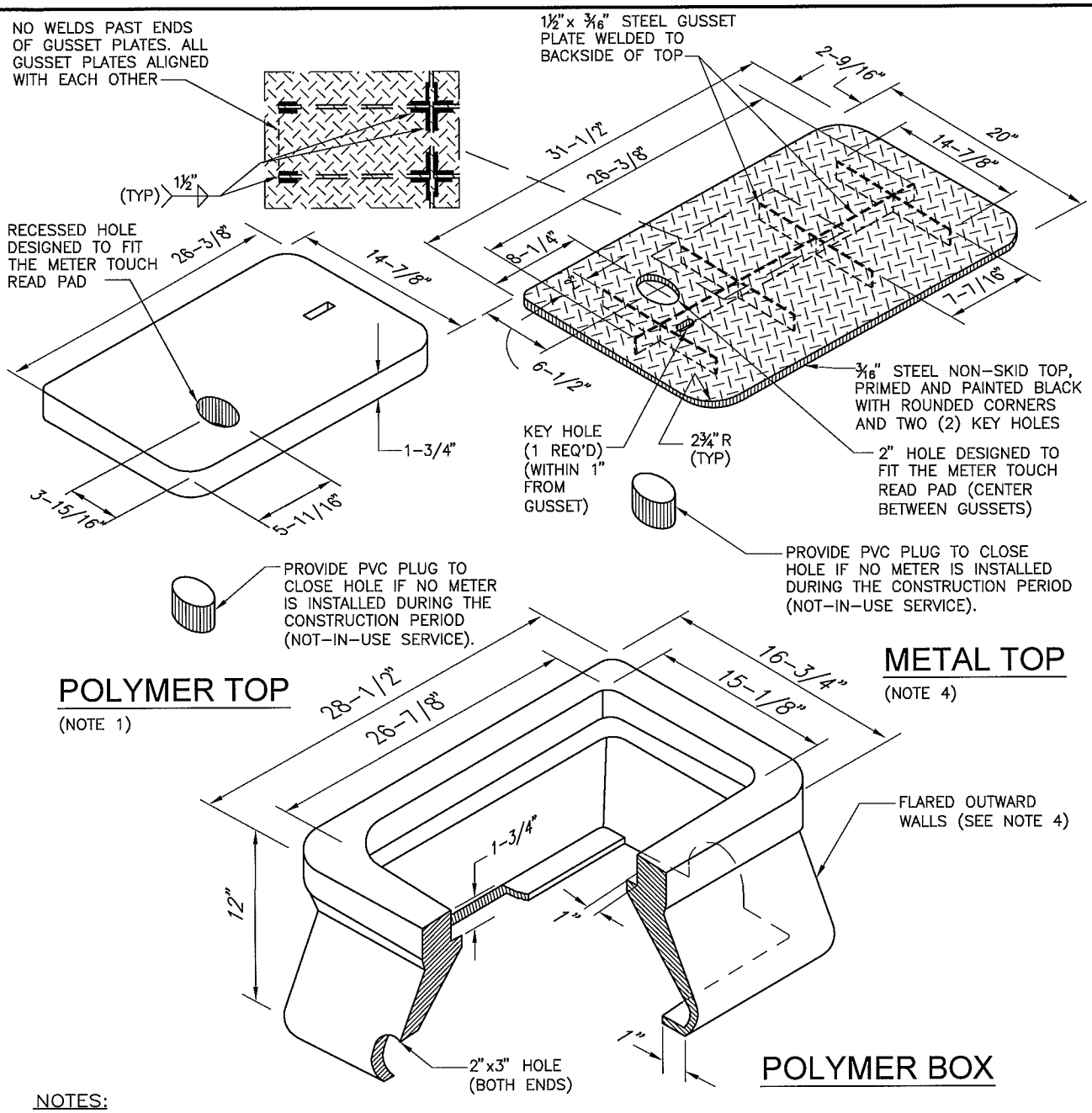


NOTES:

1. THE STANDARD BOX (STRAIGHT VERTICAL WALLS) & TOP SHALL BE MADE OF POLYMER CONCRETE. (SIMILAR TO OLD BROOKS SERIES 37 BOX). BOX WALLS SHALL BE FIBERGLASS.
2. ALL SIZES SHOWN ARE IN INCHES AND ARE APPROXIMATE SIZES.
3. POLYMER BOX APPROXIMATE WEIGHT 17lbs. POLYMER TOP APPROXIMATE WEIGHT 25lbs.
4. UNLESS APPROVED OTHERWISE BY THE COUNTY, ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN THE ROADWAY, DRIVEWAYS OR SIDEWALKS). IF AN EXCEPTION TO THIS RULE IS APPROVED BY THE COUNTY, THEN THE FOLLOWING SHALL BE PROVIDED:
   A). UNDER NO CIRCUMSTANCE SHALL A METER BOX BE LOCATED IN A COMMERCIAL TRAFFIC AREA.
   B). METER BOX LOCATED IN A SIDEWALK SHALL INCLUDE A POLYMER BOX WITH FLARED OUTWARD WALLS (NOT STRAIGHT WALLS) AND A POLYMER TOP.
   C). METER BOX LOCATED IN A RESIDENTIAL DRIVEWAY SHALL INCLUDE A POLYMER BOX WITH FLARED OUTWARD WALLS (NOT STRAIGHT WALLS) AND A METAL TOP.
5. PRIOR TO ORDERING, CHECK WITH COUNTY TO DETERMINE IF THE COUNTY'S STANDARD FOR METER BOX & COVER HAS CHANGED

W-3
METER BOX & COVER FOR 1" AND SMALLER METERS

16810-125-01
Plotted: 10/26/06 10:44am DPAIR
N:\16810 Putman Co\12501\Figures\Water\1681012501-W04.Dwg

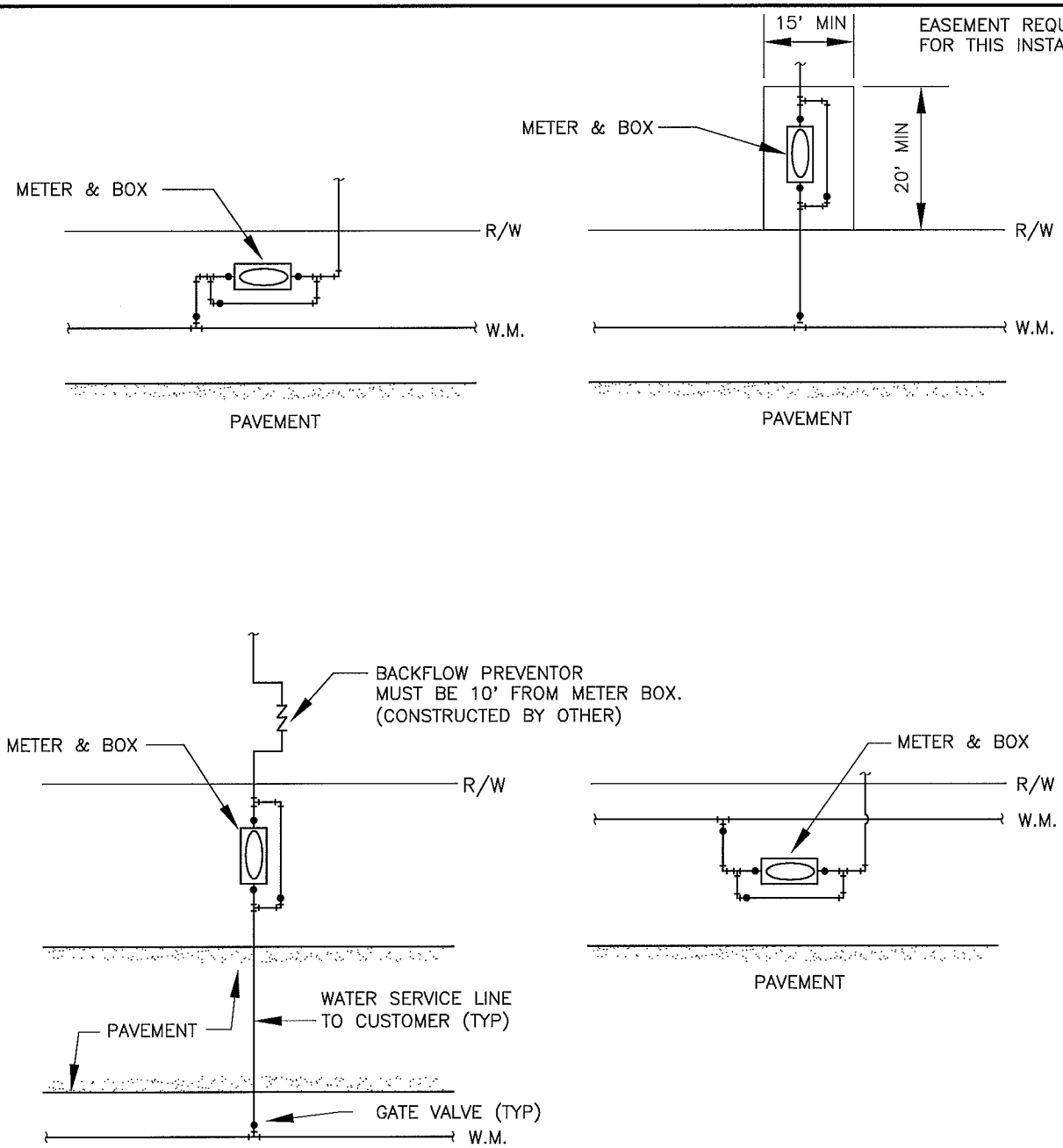


NOTES:

1. THE STANDARD BOX (FLARED OUTWARD WALLS) & TOP SHALL BE MADE OF POLYMER CONCRETE. (SIMILAR TO OLD BROOKS SERIES 65). BOX WALLS SHALL BE FIBERGLASS.
2. ALL SIZES SHOWN ARE IN INCHES AND ARE APPROXIMATE SIZES.
3. POLYMER BOX APPROXIMATE WEIGHT 17lbs. POLYMER TOP APPROXIMATE WEIGHT 25lbs.
4. UNLESS APPROVED OTHERWISE BY THE COUNTY, ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS (NOT IN THE ROADWAY, DRIVEWAYS OR SIDEWALKS). IF AN EXCEPTION TO THIS RULE IS APPROVED BY THE COUNTY, THEN THE FOLLOWING SHALL BE PROVIDED:
   A). UNDER NO CIRCUMSTANCE SHALL A METER BOX BE LOCATED IN A COMMERCIAL TRAFFIC AREA.
   B). METER BOX LOCATED IN A SIDEWALK SHALL INCLUDE A POLYMER BOX WITH A POLYMER TOP.
   C). METER BOX LOCATED IN A RESIDENTIAL DRIVEWAY SHALL INCLUDE A POLYMER BOX WITH A METAL TOP.
5. PRIOR TO ORDERING, CHECK WITH COUNTY TO DETERMINE IF THE COUNTY'S STANDARD FOR METER BOX & COVER HAS CHANGED.

W-4
WATER METER BOX & COVER FOR 1 1/2" AND 2" METERS

16810-125-01
Plotted: 10/26/06 10:47am DPAIR
N:\16810 Putnam Co\12501\Figures\Water\1681012501-W05.Dwg



NOTES:

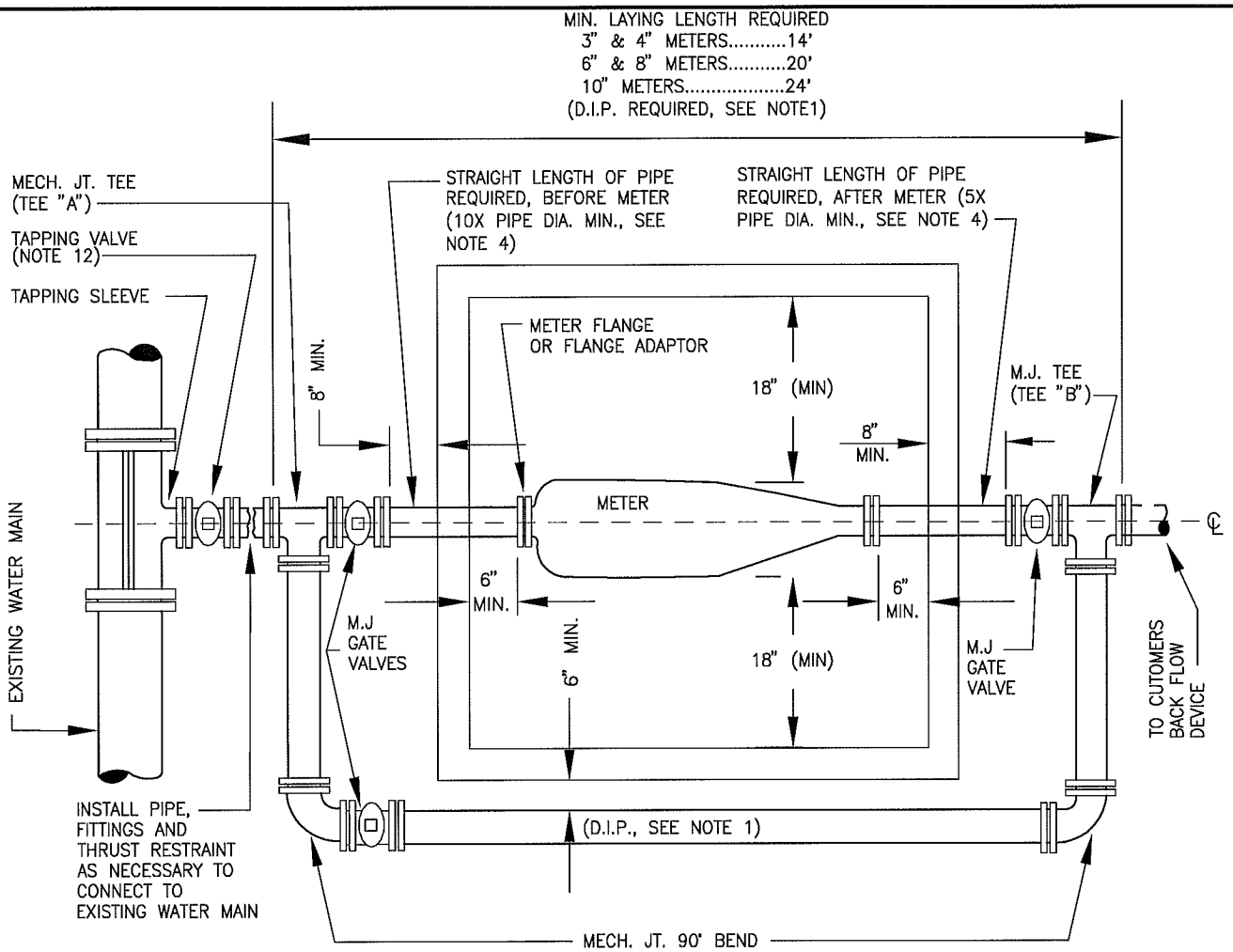
1) THE SKETCHES ABOVE ARE SUGGESTIONS FOR SOME TYPICAL (TYP) LARGE METER (3" AND LARGE SIZE METER) INSTALLATIONS. ACTUAL INSTALLATIONS WILL VARY ACCORDING TO FIELD CONDITIONS ENCOUNTERED.

2) THE WATER METER BOX SHALL BE CO-POLYMER MATERIAL. IF THE BOX IS LOCATED IN A DRIVEWAY OR ROADWAY, THE BOX SHALL BE CONCRETE WITH HEAVY-DUTY ALL GALVANIZED (WITH REINFORCED GALV.) TOP. BOXES LOCATED IN DRIVEWAYS OR ROADWAYS MUST BE APPROVED BY THE COUNTY, PRIOR TO CONTRUCTION.

3) FOR TYPICAL BOX INSTALLATION DETAILS SEE PLATE No. W-6 THRU W-8.

W-5
LARGE WATER METER INSTALLATIONS

16810-125-01
Plotted: 10/26/05 10:54am DPAIR
N:\16810 Putnam Co\12501\Figures\Water\1681012501-W06.Dwg

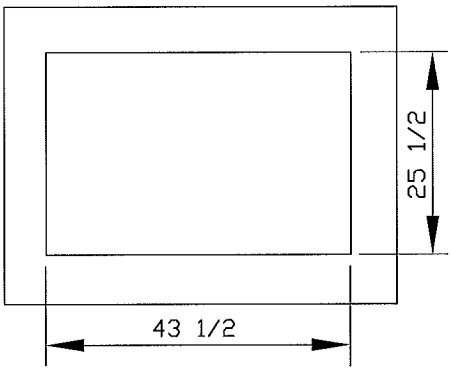


NOTES:

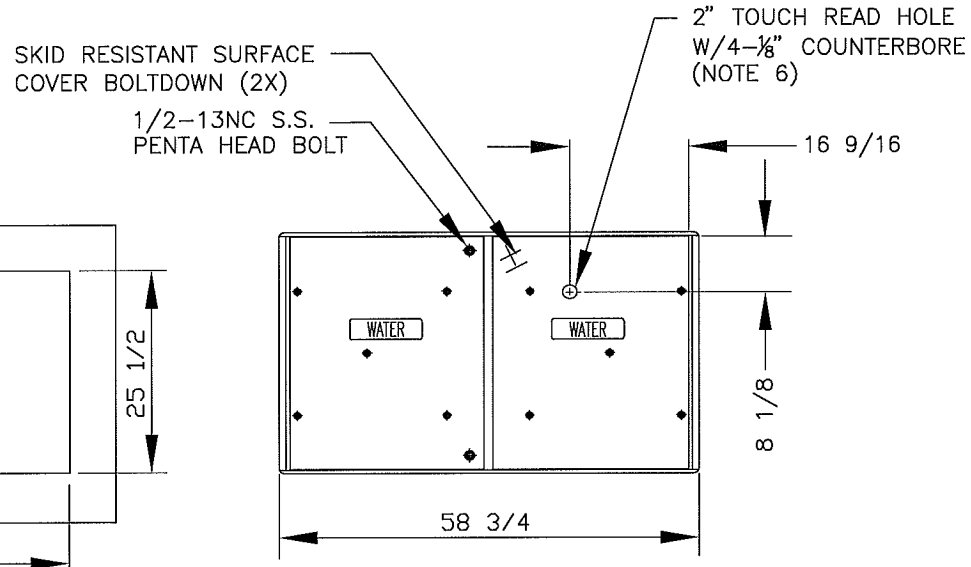
1. ALL PIPING BETWEEN TEE FITTINGS (TEE "A" AND TEE "B") SHALL BE D.I.P., INCLUDING BY-PASS PIPING.
2. ALL VALVES & FITTINGS TO BE DUCTILE IRON RESTRAINED JOINT.
3. FOR BOX DETAILS SEE PLATES W-7 AND W-8.
4. MINIMUM LENGHT OF TEN (10) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON INLET SIDE OF METER AND FIVE (5) PIPE DIAMETERS OF STRAIGHT PIPE TO BE INSTALLED ON OUTLET SIDE OF METER.
5. TURBINE METER INSTALLATIONS REQUIRE A TEST TEE TO BE INSTALLED BETWEEN THE METER AND VALVE ON CONSUMER SIDE OF METER.
6. ALL PIPE AND FITTINGS TO BE SAME SIZE AS METER.
7. MECHANICAL RETAINER GLAND RESTRAINTS SHALL BE UTILIZED TO RESTRAIN ALL JOINTS. THE USE OF THRUST BLOCKS, TIE RODS AND/OR BELL/ROD RESTAINTS SHALL ONLY BE USED IF SPECIFICALLY APPROVED BY THE COUNTY.
8. PIPE FROM TAP TO BYPASS TEE SHALL BE RESTRAINED.
9. MAXIMUM COVER OF LARGE WATER METERS SHALL BE 36" (FROM TOP OF PIPE TO GRADE).
10. LOCATING WIRING REQUIRED FROM EXISTING WATER MAIN TO METER BOX.
11. FOR METERS LARGER THAN 2" SIZE, PLEASE CONTACT THE COUNTY.
12. EACH SERVICE (FIRE MAIN, POTABLE WATER, ETC.) SHALL INCLUDE A SEPARATE ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE) LOCATED PRIOR TO TEE "A". ALSO, UN-METERED FIRE MAIN SERVICES SHALL INCLUDE A SEPARATE ISOLATION VALVE (TAPPING VALVE OR GATE VALVE, BELOW GROUND TYPE).

W-6
WATER METER INSTALLATION DETAILS (3" - 20" METERS)

16810-125-01
Plotted: 10/26/06 10:56am DPAIR
N:\16810 Putman Co\12501\Figures\Water\1681012501-W07.Dwg



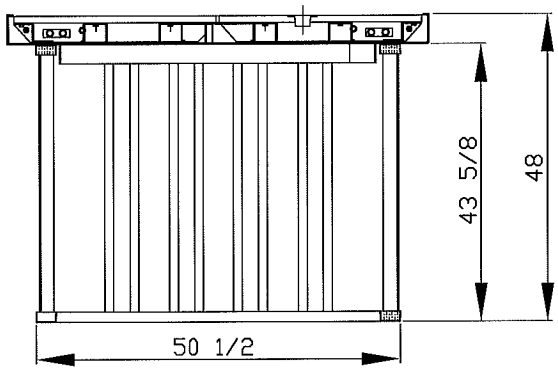
PLAN VIEW



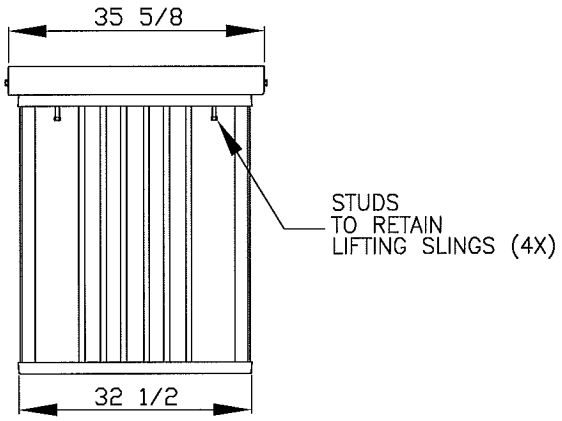
TORSION ASSIST COVER

MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
COLOR: CONCRETE GRAY
LOAD RATING: A8 (ASTM C857)

2" TOUCH READ PLUG



EXTENSION & COVER SECTION



END VIEW

NOTES:

1) THE DIMENSIONS SHOWN ARE FOR A STANDARD 30" WIDE BY 48" LONG BY 48" DEEP BOX. DIMENSIONS VARY ACCORDING TO METER SIZE & TYPE. SEE PLATE W-8. ALL DIMENSIONS ARE SHOWN IN INCHES.
2) CONC. OR ASPHALT SLOPE: ⅛ IN./FT
3) GRADE TO SLOPE AWAY FROM METER BOX
4) DO NOT INSTALL METER BOX IN AREA SUBJECTED TO FLOODING
5) LOCATING WIRING REQUIRED.
6) THE LARGE BOXES (48" AND 72" WIDE BOXES) REQUIRE TWO 2" RECESSED HOLES TO FIT ANTENNA
7) A 4" THICK CONCRETE BOTTOM SHALL BE CONTRUCTED DURING THE BOX INSTALLATION.

W-7
CO-POLYMER WATER METER BOX (3" - 20" METERS)

16810-125-01
Plotted: 10/26/06 11:00am DPAIR
N:\16810 Putman Co\12501\Figures\Water\1681012501-W08.Dwg

WATER METER BOX DIMENSIONS (3" - 20" METERS)

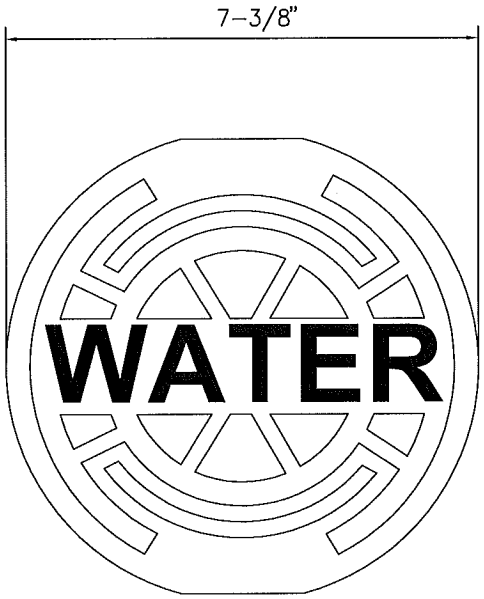
Meter Description		Polymer Concrete Box Non-Traffic Rated (Note 1)	Pre-cast Concrete Box Traffic Rated (Note 2)	
Type	Size	Length x Width x Depth (O.D.)	Length x Width x Depth (O.D.)	Metal Top Size (Cover)
Turbine Meter	3"	30" x 48" x 48"	56" x 38" x 48"	50 ¾" x 32 ¾"
	4"	30" x 48" x 48"	56" x 38" x 48"	50 ¾" x 32 ¾"
	6"	30" x 48" x 48"	56" x 38" x 48"	50 ¾" x 32 ¾"
	8"	48" x 48" x 48"	48" x 48" x 54" *	36" x 36"
	10"	72" x 72"x 60"	72" x 72" x 54" *	36" x 36"
Compound Meter	3"	30" x 48" x 48"	56" x 38" x 48"	50 ¾" x 32 ¾"
	4"	30" x 48" x 48"	56" x 38" x 48"	50 ¾" x 32 ¾"
	6"	30" x 48" x 48"	56" x 38" x 48"	50 ¾" x 32 ¾"
Fire Meter	4"	48" x 48" x 48"	48" x 48" x 54" *	36" x 36"
	6"	72" x 72" x 60"	72" x 72" x 54" *	36" x 36"
	8"	72" x 72" x 60"	72" x 72" x 54" *	36" x 36"
	10"	72" x 72" x 60"	72" x 72" x 54" *	36" x 36"
* Includes 6" Thick Bottom				

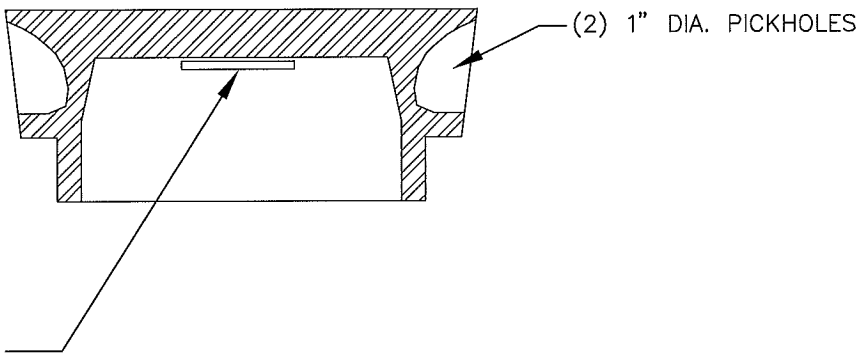
NOTES:

1. **Polymer Concrete Boxes** shall only be provided in non-traffic (including not in driveways) locations.
   FRP/ Polymer Concrete Meter Box & Cover (by CDR Systems Corp; #386/615-9510):
   Box and the extension if required, shall be manufactured using fiberglass reinforced materials and polymer concrete. The body of the box with no bottom shall be manufactured using fiberglass reinforced materials, comprised from polyester resins and fiberglass matting. The top collar and cover shall be manufactured from poured polymer concrete and shall be concrete grey color. During the manufacturing process and while the polymer concrete is in a softened state, the body shall be married to the collar by inserting it into the collar's form. The box and cover shall have a load rating of A8 (ASTM C857). The box shall conform to these design functions and dimensional requirements and include lifting studs. Box extensions shall be provided for all deep installations. The box shall be a 2-piece assembly including molded/raised Putman logo (logo on both pieces). Recessed holes (approximately 2" diameter) designed to fit a Schlumberger antenna used with a meter interface unit (MIU). Two cover hold-down bolts (1/2 - 13NC S.S. Pentahead bolts). Torsion assisted components and textured non-skid surface. A 2" PVC plug shall be provided for each 2"-hole which can be compressed (tight fit) into the 2" hole for temporary closure of the hole.
2. **Pre-cast Concrete Boxes** shall only be provided in traffic area (including driveways) locations.
   Pre-cast Meter Box shall be designed for minimum H-20 traffic loading. Concrete for pre-cast shall be minimum 4500 PSI @ 28 days. Top slab and floor slab shall be minimum 6" thick. Walls shall be 4" (minimum) thick, LAP joints and 12"W x 18"H knock-outs. Top slab shall have steel frame and cover cast in. Cover to bolt down with ½" inserts cast in under frame. Cover shall be centered in top slab. The 36" x 36" cover to have 17" x 17" meter reading lid centered and bolted. Box extensions shall be provided for all deep installations.

W-8
WATER METER BOX DIMENSIONS (3" – 20" METERS)

16810-125-01
Plotted: 10/27/06 8:48am DPAIR
N:\16810 Putnam Co\12501\Figures\Water\1681012501-W09.Dwg





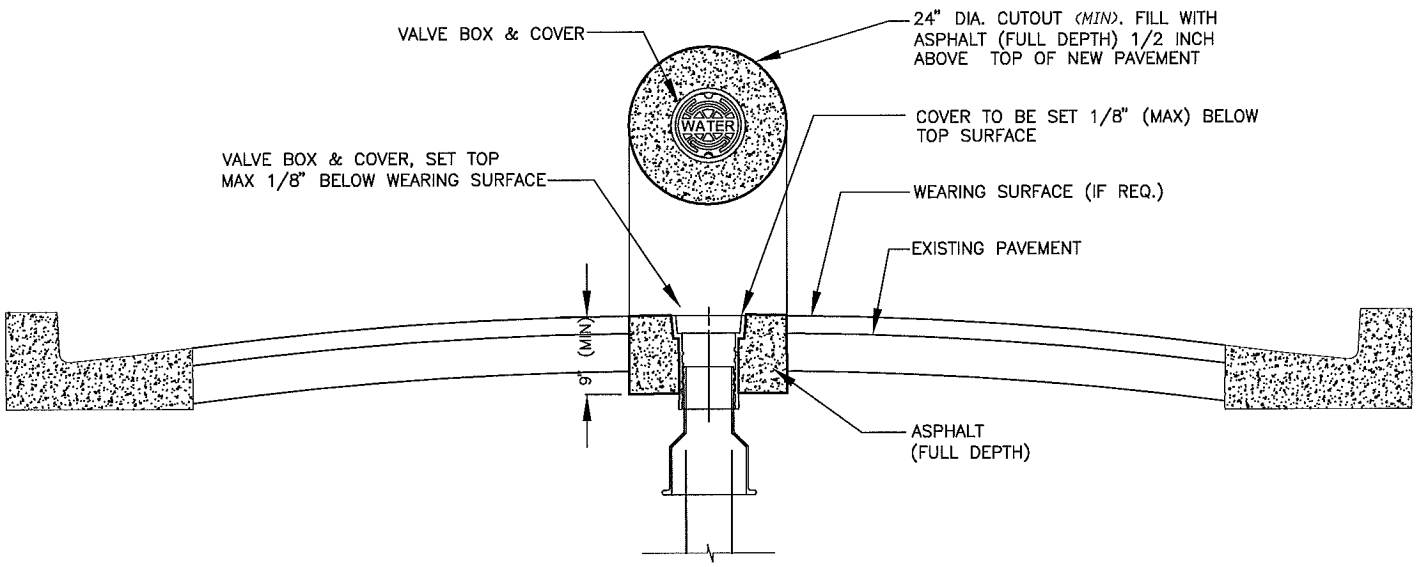
NOTE
LID WEIGHT: APPROX. 10 LBS

NOTES:

1. THE INSIDE SURFACE SHALL BE AS SMOOTH AS POSSIBLE SO THAT THE VALVE TAG MAY BE EPOXYED DIRECTLY TO THE INSIDE COVER. PRIOR TO APPLYING THE EPOXY, THE COVER SURFACE CONTACT AREA SHALL BE CLEANED WITH A RAG AND ALCOHOL SOLUTION TO REMOVE OIL FILM.
2. PAINT TOP OF THE COVER WITH ENAMEL PAINT (GREEN COLOR).
3. BRASS IDENTIFICATION TAG (2"ø, $\frac{1}{8}$" THICK) SHALL INDICATE THE SPECIFIC SERVICE (WATER), VALVE TYPE (GATE PLUG), VALVE SIZE AND NUMBER OF TURNS TO OPEN, AT A MIN.

W-9
WATER SYSTEM VALVE BOX COVER

Plotted: 10/27/06 8:50am DPAIR 16810-125-01

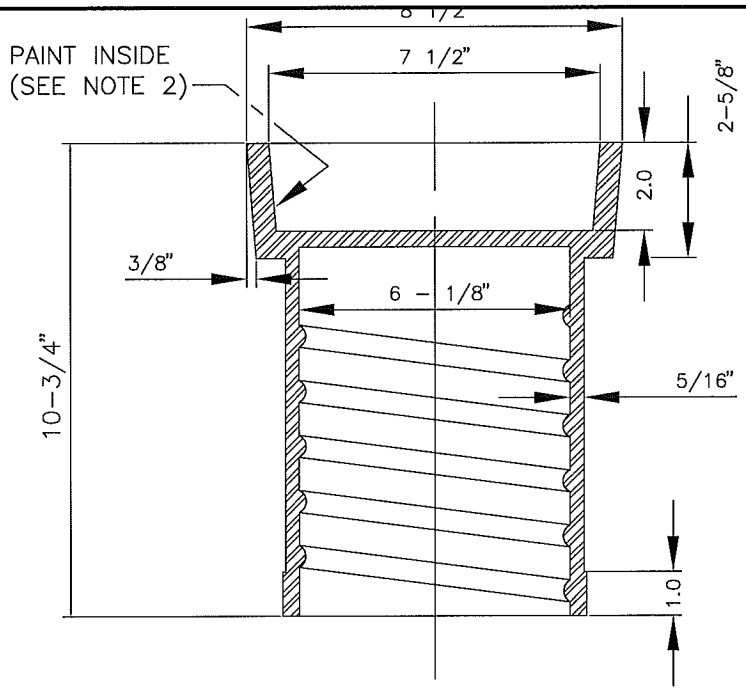


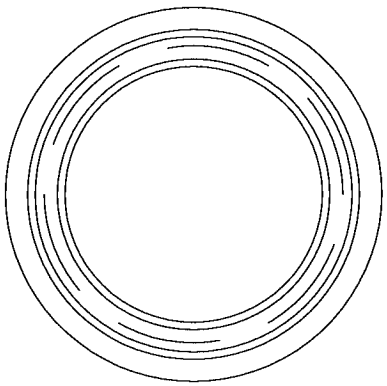
1. PROVIDE FULL DEPTH ASPHALT 1/2 INCH ABOVE TOP OF NEW PAVEMENT LEVEL, TO ALLOW FOR FUTURE ASPHALT MATERIAL COMPACTION. PLACE AND COMPACT ASPHALT IN 2" (MAX) LIFTS.

W-10
WATER VALVE JACKET ADJUSTED AFTER ROADWAY RE-SURFACING

N:\16810 Putnam Co\12501\Figures\Water\1681012501-W10.Dwg

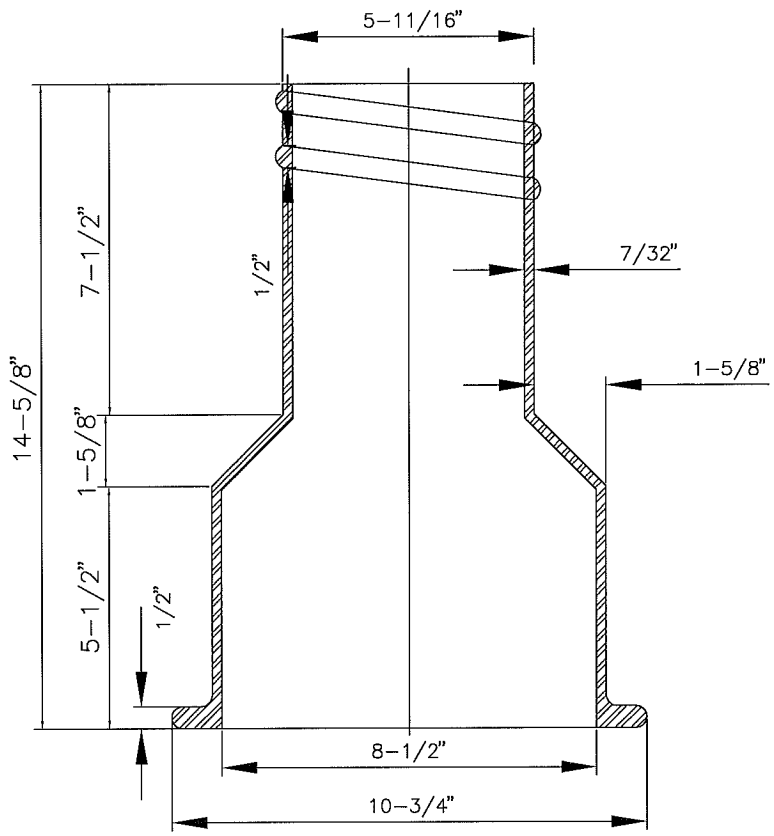
16810-125-01
Plotted: 10/27/06 8:50am DPAIR
N:\16810 Putnam Co\12501\Figures\Water\16810125O1-W11.Dwg

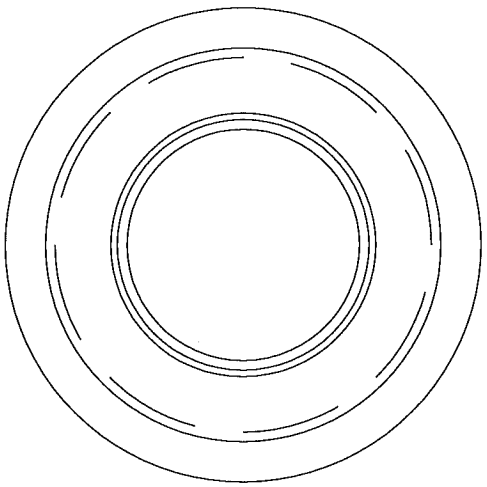




TOP SECTION VIEW

(23 LBS. APPROX.)





BOTTOM SECTION VIEW

(26 LBS. APPROX.)

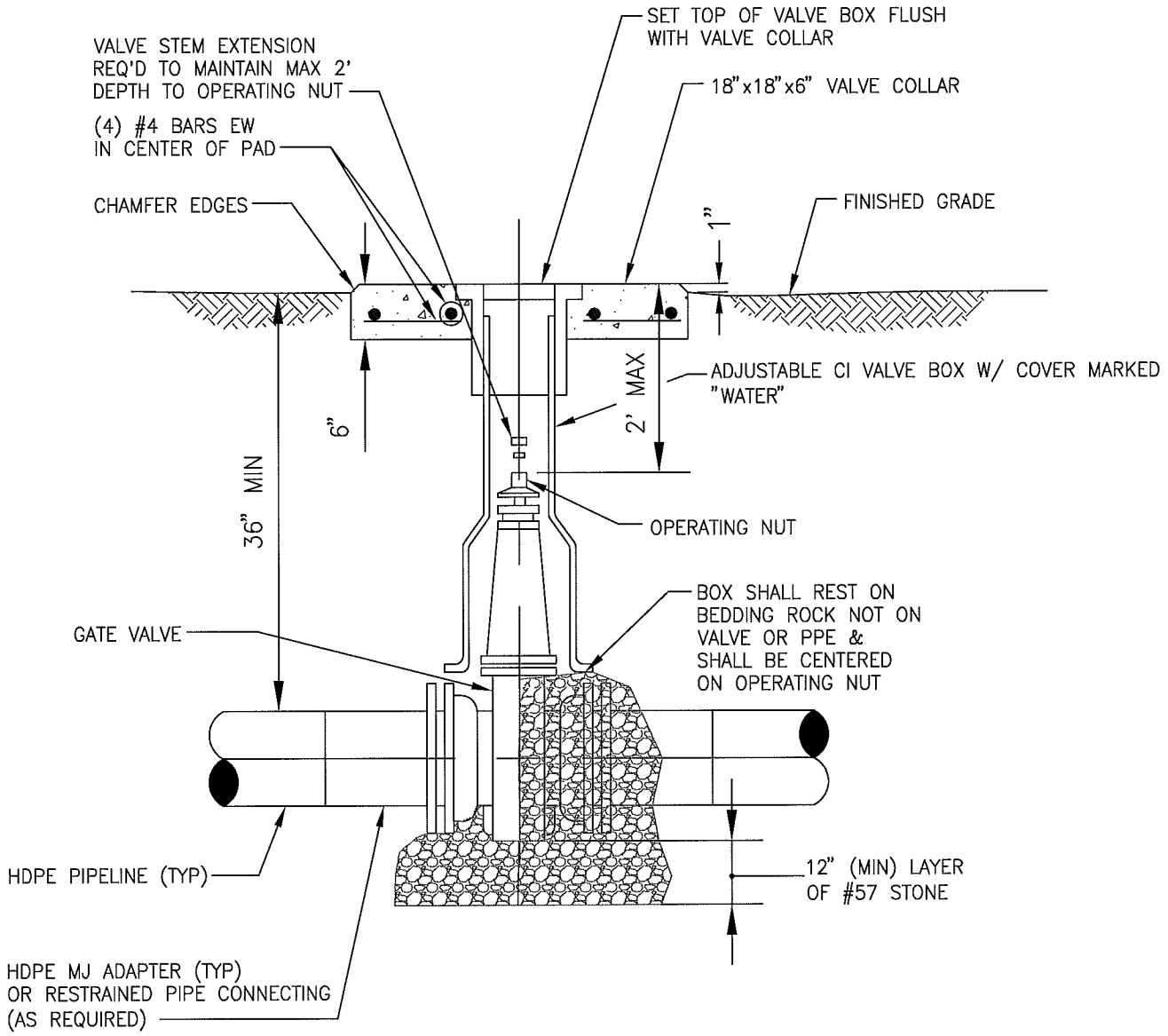
NOTES:

1) THREE SECTION VALVE BOXES ALSO ACCEPTABLE.

2) PAINT THE INSIDE OF THE TOP SECTION OF THE BOX GREEN COLOR.

W-11
WATER SYSTEM VALVE BOX

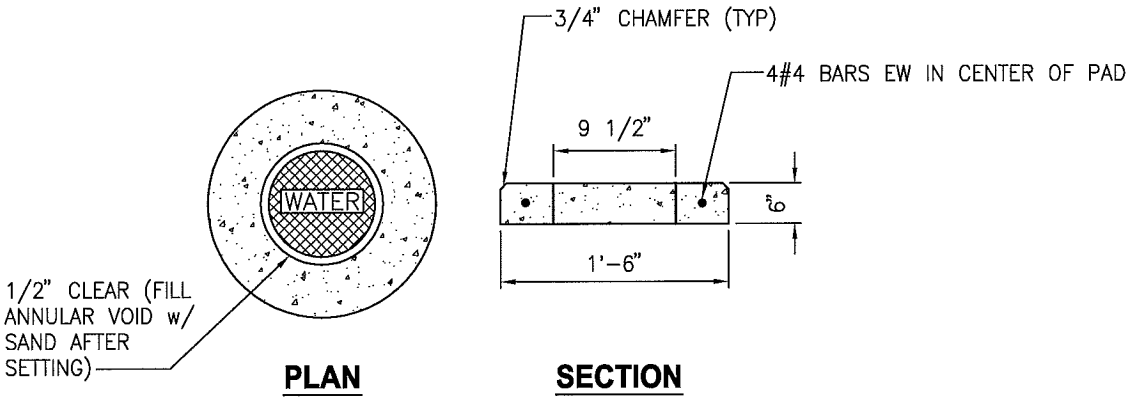
16810-125-01
Plotted: 10/29/06 3:11pm DPAIR
N:\16810 Putnam Co\12501\Figures\Water\16810125O1-W12.Dwg



NOTE:
INSTALLATION LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. ACTUAL INSTALLATION LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.

W-12
VALVE DETAIL

Plotted: 10/29/06 2:20pm DPAIR 1681012501

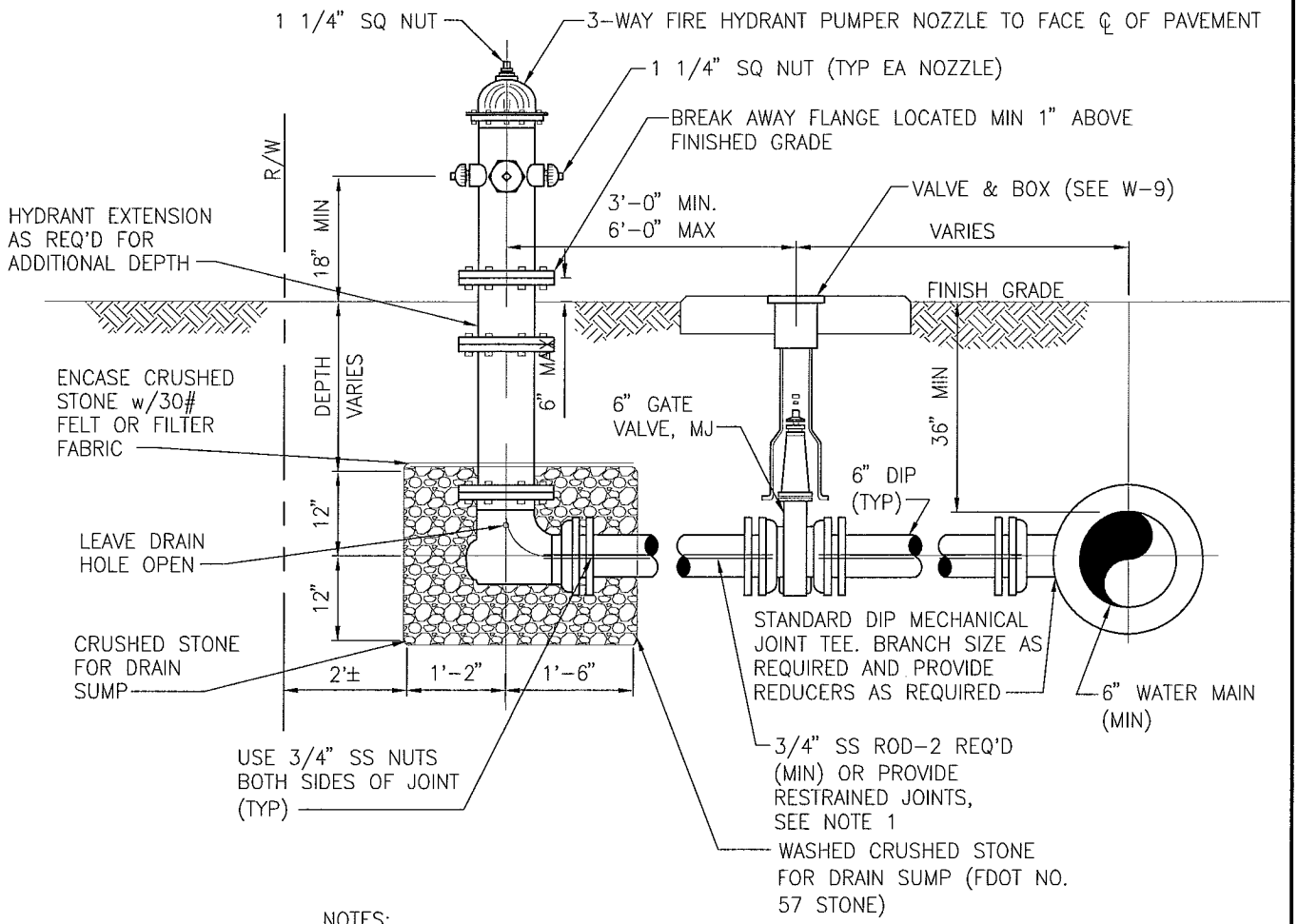


NOTE:
CONCRETE VALVE JACKET COLLAR TO BE PLACED OVER ALL VALVES WHICH ARE NOT IN PAVEMENT.

W-13
VALVE COLLAR DETAIL

N:\16810 Putnam Co\12501\Figures\Water\16810125

16810-125-01
Plotted: 4/24/07 2:31pm DPAIR
N:\16810 Putnam Co\12501\Figures\Water\1681012501-W14.Dwg

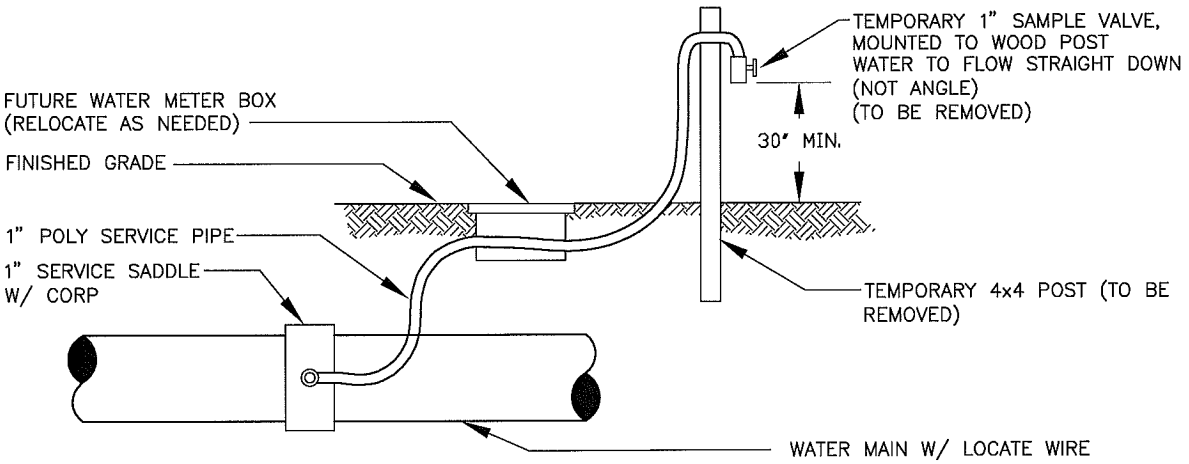


NOTES:

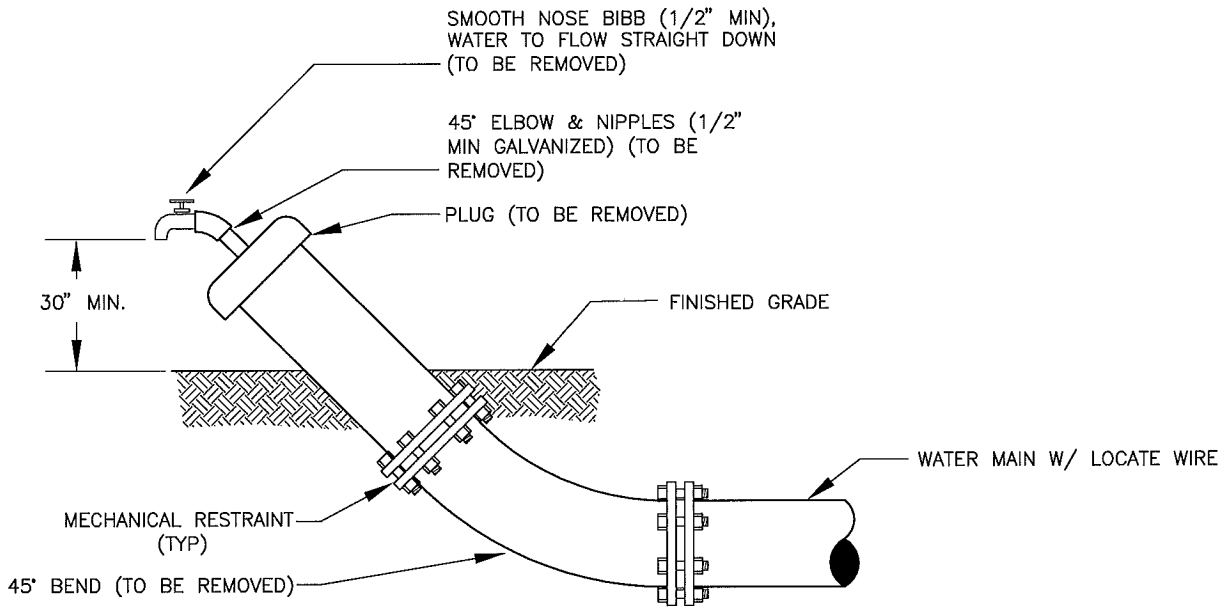
1. 3/4" STAINLESS STEEL ROD CUT AND THREADED AS REQUIRED, OR PROVIDE RESTRAINED JOINTS.
2. FIRE HYDRANTS SHALL BE INSTALLED BETWEEN EDGE OF ROAD AND RIGHT-OF-WAY LINE.
3. TIE RODS, NUTS, WASHERS AND OTHER FASTENERS SHALL BE TYPE 316 STAINLESS STEEL
4. 4 1/2" PUMPER NOZZLE TO BE PERPENDICULAR TO CENTERLINE OF MAJOR STREET.
5. FIRE HYDRANT ASSEMBLY INCLUDES ALL THAT IS SHOWN INCLUDING DI PIPE TO R/W, DIP TEE AT MAIN, HYDRANT, REDUCERS, VALVE, HYDRANT EXTENSIONS, VALVE EXTENSIONS, ALL PIPING AND MISCELLANEOUS APPURTENANCES REQUIRED FOR A COMPLETE INSTALLATION.
6. NOZZLE THREADS TO BE FINE THREAD OR NATIONAL STANDARD THREAD (NST).

W-14
FIRE HYDRANT ASSEMBLY DETAIL

16810-125-01
Plotted: 10/27/06 8:51am DPAIR



TEMPORARY SAMPLE TAP UTILIZING A NEW 1" WATER SERVICE



TEMPORARY SAMPLE TAP UTILIZING PLUG AT FLUSHING LOCATION

NOTES:

1) LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROAD SHOULDERS

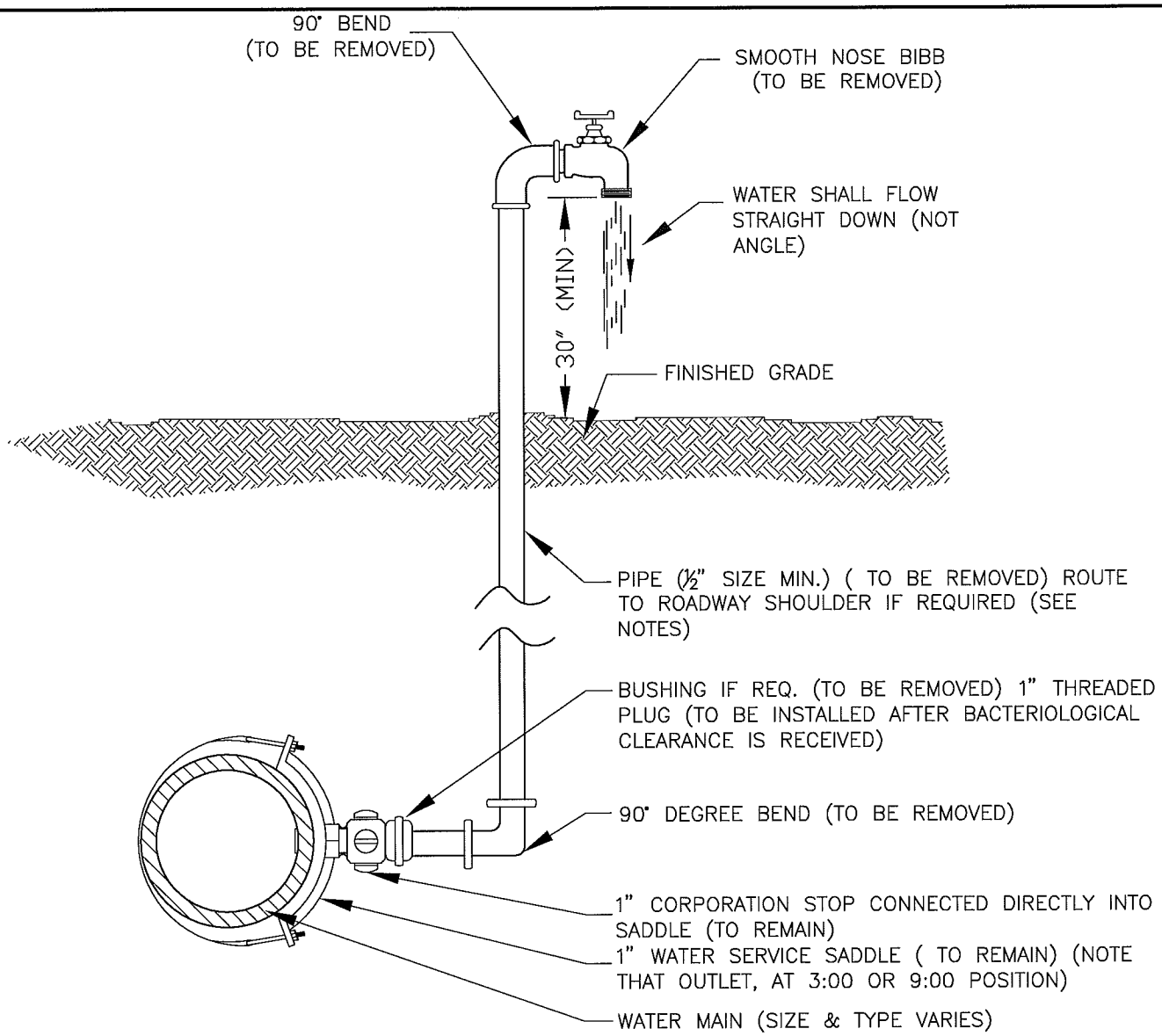
2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PIPING & FITTINGS NOTED AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.

3) THE CONTRACTOR SHALL UTILIZE THE ABOVE ALTERNATIVE METHODS FOR CONSTRUCTION OF TEMPORARY SAMPLE POINTS IN ALL AREAS, WHERE POSSIBLE.

W-15
TEMPORARY SAMPLE TAP – ALTERNATIVE METHODS

N:\16810 Putman Co\12501\Figures\Water\1681012501-W15.Dwg

16810-125-01
Plotted: 10/29/06 2:22pm DPAIR



NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PIPING & FITTINGS (AS NOTE), AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.
3. PIPE AND FITTINGS SHALL BE PVC (SCH.40) OR GALV. MATERIAL.
4. THE USE OF THE ABOVE CONSTRUCTION FOR A TEMPORARY SAMPLE POINT SHALL BE LIMITED TO AREAS WHERE A SAMPLE TAP BY ALTERNATIVE METHODS (SEE W-15) IS NOT FEASIBLE OR IF DIRECTED OTHERWISE BY THE COUNTY.

W-16
TEMPORARY SAMPLE TAP

N:\16810 Putnam Co\12501\Figures\Water\16810125O1-W16.Dwg

16810-125-01
Plotted: 10/26/06 1:33pm DPAIR
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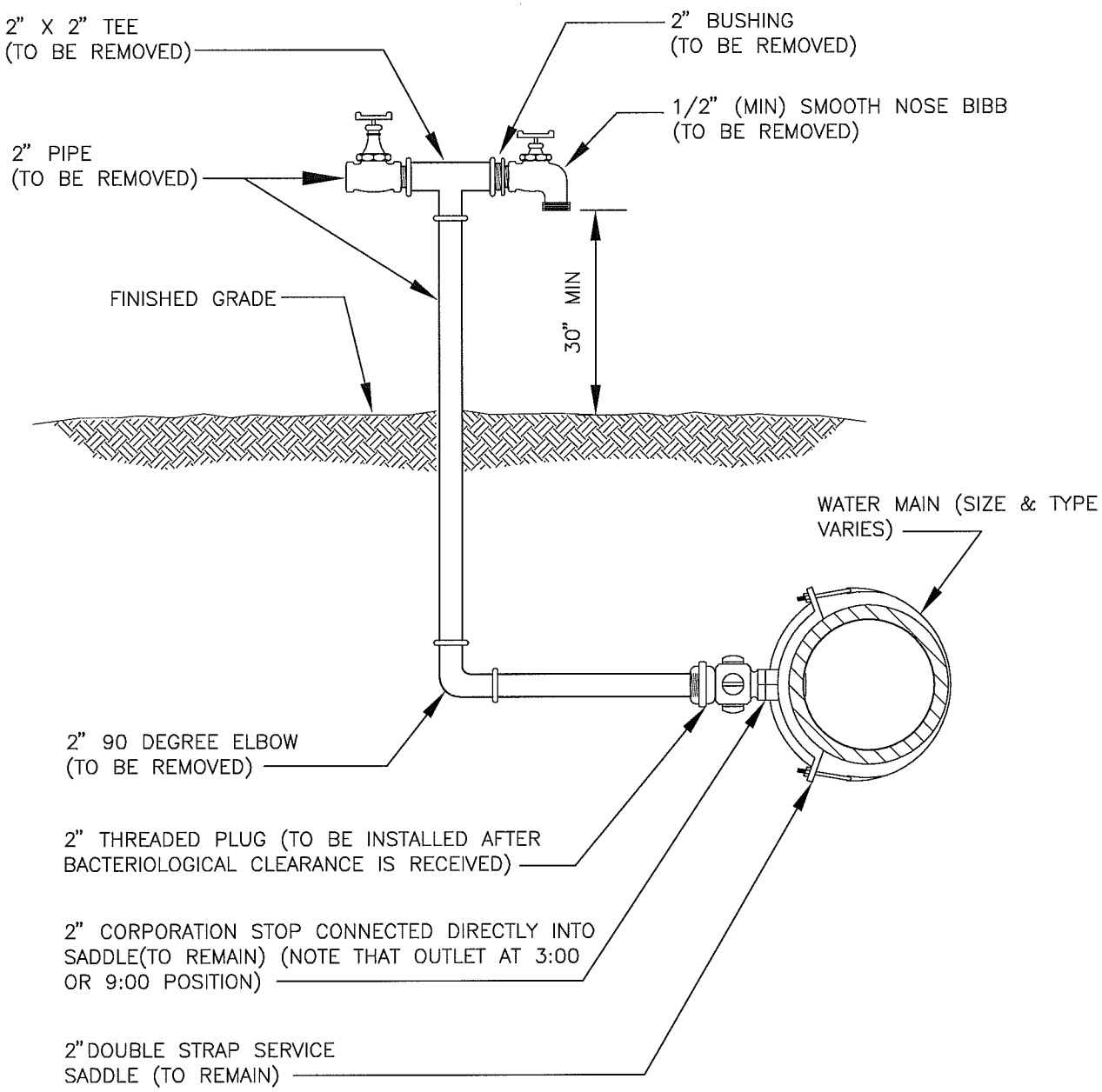

NOTES:

1. LOCATION OF SAMPLE POINT BIBB SHALL NOT BE WITHIN THE ROADWAY BUT ROUTED TO THE ROADWAY SHOULDERS (NON-TRAFFIC AREAS).
2. ALL PIPE & FITTING SHALL BE GALVANIZED MATERIAL OR PVC.
3. THE CONTRACTIOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL PIPING & FITTING NOTED AFTER BACTERIOLOGICAL CLEARANCE IS RECEIVED.

W-17
2" TEMPORARY SAMPLE TAP FOR STUB OUT