

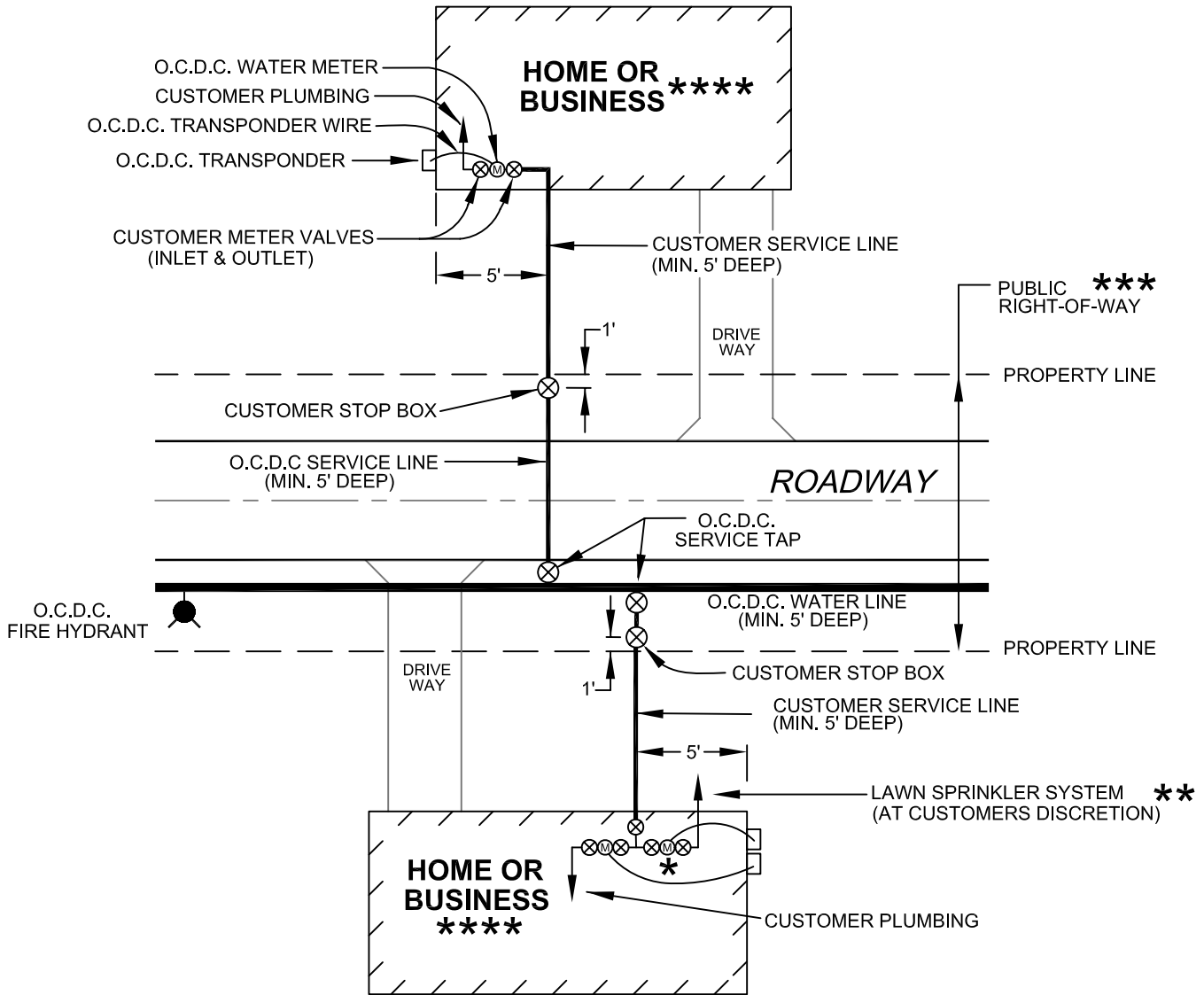
1. All water service connections two (2") inches and smaller shall be made by the Oakland County Drain Commissioner (OCDC) Operations and Maintenance Division, after water main acceptance and applicable tap permits are obtained.
2. No taps shall be made under pavement, unless approved by the OCDC.
3. The customer service line(s) (*i.e. fire protections and domestic services*) shall be installed to accommodate item (2) above.
4. The customer service line(s) shall be kept at least four (4') feet from the driveway, unless otherwise approved by OCDC.
5. The customer service line(s) shall be buried at least five (5') feet deep.
6. The customer service line(s) shall be extended at least one (1') foot beyond the property line and be clearly marked. See Water Service Detail sketch.
7. The customer service line(s) shall be installed to allow for a straight line connection, from the property line to the OCDC water main, without having to tunnel trees, culverts, poles, etc.
8. **Type "K" soft copper** shall be used for all water services, two (2") inches and smaller, in the following communities: Commerce Township, Farmington Hills, Orchard Lake, and Royal Oak Township.

HDPE service lines with tracer wire shall be used for all water services, two (2") inches and smaller, in the following communities: Bingham Farms, Bloomfield Hills, Highland Township, Keego Harbor, Lyon Township, Oakland Township, Orchard Lake, Oxford Township, and Royal Oak Township.

The contractor has the **option** of installing either Type "K" soft copper or HDPE service leads for all water services two (2") inches and smaller in the following communities: Orchard Lake and Royal Oak Township.

9. When the water service is constructed in advance of the tap being made, the OCDC shall connect to the customer service line. When the OCDC tap is made in advance of the house service, the customer shall make the connection to the stop box with a plumbing inspection.
10. The customer service line shall be located within five (5') feet from a front building corner to facilitate proper installation of the remote reader on the exterior of the building.
11. All joining methods of the customer service line shall be approved by the OCDC. Sweat, fused, or welded joints will **not** be permitted.
12. Any modifications of the service connection, required as a result of the customer, or his agent, deviating from the location as indicated on the "Application for Water Connection", shall be done at the customer's expense.
13. Meter by-passes are **not** permitted on meters two (2") inches and smaller.
14. The customer is responsible for all cleanup and restoration resulting from service line installation, including the road right-of-way (adjacent to customer's property).
15. The OCDC will restore the opposite road right-of-way on long taps.
16. Water taps cannot be made on private property, (outside of easements or outside of road right-of-ways). The OCDC does **not** infringe on the common grounds or private property of condominium complexes.
17. The OCDC is only responsible for the service line from the water main to the stop box. The stop box and customer service line (service line from the stop box to the house) is the customer's responsibility.
18. All water meters must be purchased from the OCDC.

19. All fire service lines require a (5/8") "detecto" meter, and it must be purchased from the OCDC.
20. All meters three (3") inches and larger require a strainer and by-pass. Installation must be inspected and approved by the OCDC, Operations and Maintenance Division.
21. All meters must be placed within eighteen (18") inches of point of entry of the structure and accessible to the OCDC for repairs or maintenance at all times.
22. Height of the meter, at point of installation, will be no less than twelve (12") inches, nor higher than twenty-four (24") inches, and meter must be installed in a horizontal position.
23. The OCDC is responsible for the maintenance of the water meter only. The customer maintains all plumbing and valves inside the house or building, including shut off valves on each side of the water meter.
24. All water taps three (3") inches and larger require gate valve and gate well (no valve boxes permitted).
25. Only standard size service taps will be made. 1-1/4" and 2-1/2" taps are **not** permitted.
26. A separate fire service tap is required for buildings with fire protection. Domestic service cannot come off the fire line. Also, a riser diagram showing proper backflow protection must be submitted to the OCDC for review and approval.
27. Each meter shall have a separate service line with shut off valve located outside of the building or structure, located at the customer's property line or the water supply system easement line.
28. Water use, for construction purposes only, shall be permitted before installation of the meter occurs, for a one month period from the date of tap. If meter installation is not scheduled within this one month period, the OCDC shall terminate water service and/or bill the customer for estimated water usage. For all service lines larger than two (2") inch diameter (including fire lines), construction use shall **not** occur until all OCDC requirements have been met, punch list items have been completed and project has been "finalized".
29. The customer shall comply with all state and/or local Cross Connection Backflow regulations.
30. For outside irrigation taps (i.e. subdivision entrances), all taps two (2") inches or smaller are made by the OCDC. In public roads, stop boxes will be installed at the property line. In private roads, (unless a full road width water main easement has been granted), stop boxes will be installed within the water main easement. See Lawn Sprinkler Riser Detail Sketch.
31. After paying for the tap and meter, it is the customer's responsibility to make arrangements with the OCDC Operations and Maintenance Division 248-356-6299 to pick up water meter. The customer will install the water meter with proper backflow prevention, and contact the OCDC Operations and Maintenance Division 248-356-6299 for inspection of the water meter installation. If installation is approved, the OCDC will then wire the water meter for remote readings.
32. Any damage which a water meter may sustain resulting from carelessness of the owner, agent or tenant or from neglect of either of them to properly secure and protect the meter, as well as any damage which may result from (but not limited to) frost, freezing, hot water or steam backing from a boiler shall be paid by the owner of the property.
33. No person except an OCDC employee shall break or injure the seal or change the location of, alter, or interfere in any way with the water meter.
34. The OCDC shall have the right to shut off the supply of water to any premises where the OCDC is not able to obtain access to the meter. Any qualified OCDC employee shall at all reasonable hours have the right to enter the premises where such meters are installed for the purpose of reading, testing, removing, or inspection same. No person shall hinder, obstruct or interfere with such employee in the lawful discharge of such employee's duties in relation to the care and maintenance of such water meter.



* DMS METER (OPTIONAL) APPLICABLE IN FARMINGTON HILLS ONLY.

** LAWN SPRINKLER SYSTEMS REQUIRE AN APPROVED BACKFLOW DEVICE TO BE TESTED AT INITIAL INSTALLATION AND EVERY 1 - 5 YEARS THERE AFTER AS REQUIRED BY O.C.D.C.

*** WATER TAPS CANNOT BE MADE ON PRIVATE PROPERTY (OUTSIDE OF EASEMENTS OR OUTSIDE OF ROAD RIGHT-OF-WAY), THE O.C.D.C. DOES NOT INFRINGE ON THE COMMON GROUNDS OR PRIVATE PROPERTY OF CONDOMINIUM COMPLEXES.

**** A SEPARATE FIRE SERVICE TAP IS REQUIRED FOR BUILDINGS WITH FIRE PROTECTION. DOMESTIC SERVICE TAP CANNOT BE MADE ON THE FIRE LINE.

TYPICAL WATER SERVICE LAYOUT

REVISION BLOCK

Rev. No.:	Rev. By:	Rev. Date:	Description:
1	Iz	03/24/05	REVISED DETAILS AND NOTES
2	Iz	08/21/07	REVISED SERVICE NOTES
3			
4			



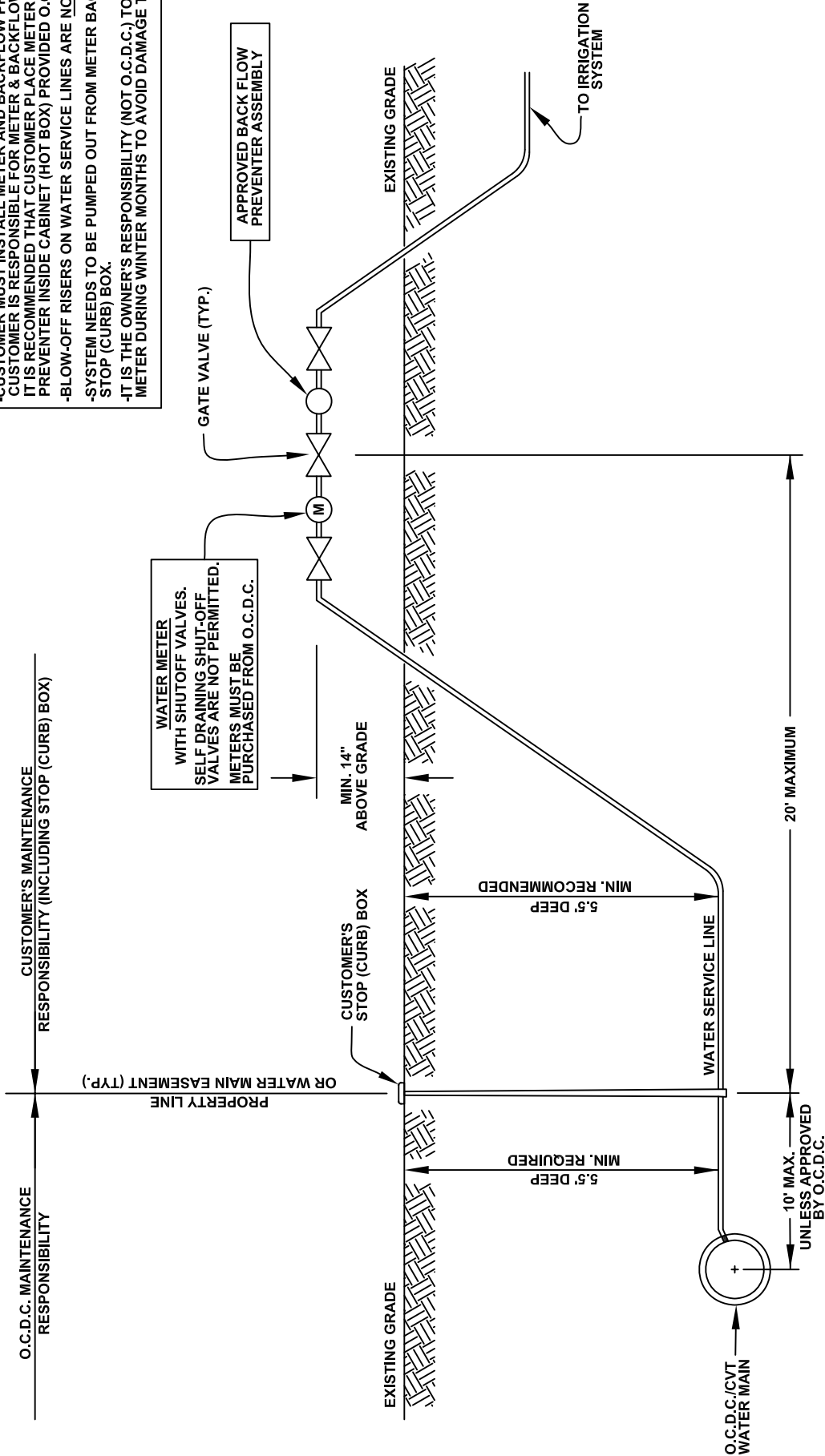
WATER SERVICE DETAIL

ONE PUBLIC WORKS DRIVE, BLDG 95 WEST
WATERFORD, MICHIGAN
48328-1907

ORIG. DATE: 6-25-02
SCALE: N.T.S.

SHEET:
1 of 1

- METER AND BACKFLOW PREVENTER TO BE PLACED IN AN AREA NOT PRONE TO FLOODING
- PRESSURE VACUUM BREAKER (PVB) TO BE MIN. 12" ABOVE HIGHEST SPRINKLER HEAD.
- CUSTOMER MUST INSTALL METER AND BACKFLOW PREVENTER. CUSTOMER IS RESPONSIBLE FOR METER & BACKFLOW PREVENTER. IT IS RECOMMENDED THAT CUSTOMER PLACE METER & BACKFLOW PREVENTER INSIDE CABINET (HOT BOX) PROVIDED O.C.D.C. HAS ACCESS.
- BLOW-OFF RISERS ON WATER SERVICE LINES ARE NOT ALLOWED.
- SYSTEM NEEDS TO BE PUMPED OUT FROM METER BACK TO STOP (CURB) BOX.
- IT IS THE OWNER'S RESPONSIBILITY (NOT O.C.D.C.) TO REMOVE METER DURING WINTER MONTHS TO AVOID DAMAGE TO THE METER.



PROFILE
LAWN SPRINKLER RISER DETAIL
NOT TO SCALE

- WATER TAP**
- ALL WATER TAPS 2" AND SMALLER ARE MADE BY O.C.D.C.
 - WATER SPRINKLER TAPS ARE SHORT TAPS ONLY. UNLESS APPROVED BY O.C.D.C.
 - ALL STOP (CURB) BOXES WILL BE INSTALLED WITHIN 10' OF THE WATER MAIN. UNLESS APPROVED BY O.C.D.C.
 - THE CUSTOMER IS RESPONSIBLE FOR ALL CLEANUP AND RESTORATION RESULTING FROM A SERVICE LINE INSTALLATION FOR IRRIGATION PURPOSES.