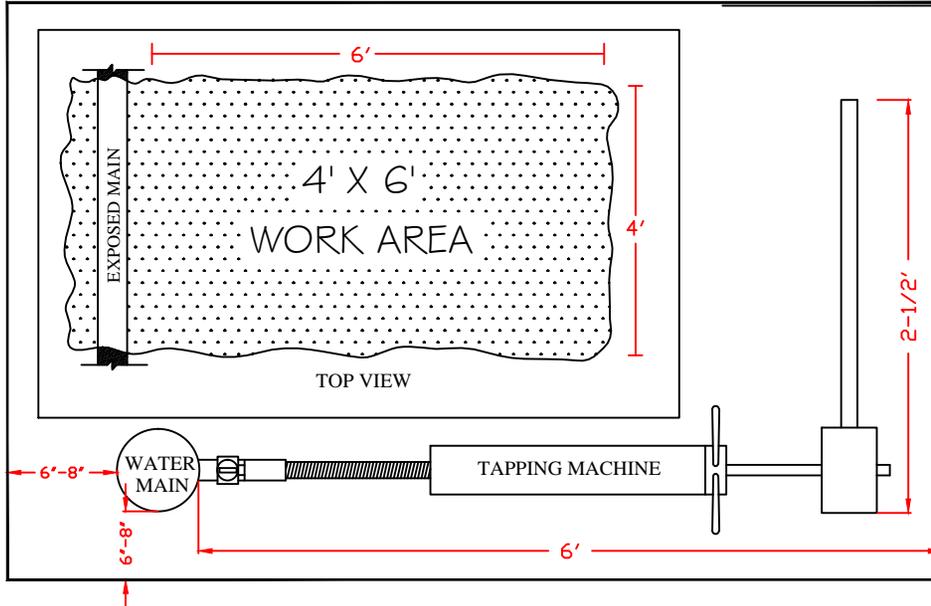


WATER TAP DIAGRAM



- 1.) MIN. CLEARANCE NEEDED FOR TAPPING MACHINE - 6 Ft. FROM SURFACE OF MAIN.
- 2.) RATCHET CLEARANCE AT END OF MACHINE IS TO BE AT LEAST 2-1/2' WITH A SEMI-CIRCULAR RADIUS.
- 3.) CLEARANCE NEEDED BELOW AND IN BACK OF WATER MAIN SUFFICIENT TO PUT TAPPING SLEEVE ON. APPROX. 6" TO 8"
- 4.) A MINIMUM OF 18" CLEARANCE ON MAIN FOR TAPPING SLEEVE.
- 5.) TAP TO BE MADE A MINIMUM OF 24" FROM NEAREST BELL POINT, TAP OR REPAIR SLEEVE.
- 6.) TAPS ARE MADE ON SIDE OF MAIN (AS IN DIAGRAM) OR ON A 45° ANGLE IF WATER MAIN IS AT A DEPTH OF 6 Ft. OR MORE. TAPS WILL BE MADE IN THE CENTER OF THE EXCAVATED AREA.

- 7.) A ROUNDWAY AND B-BOX ARE SUPPLIED BY VILLAGE, NO OTHER FITTINGS SUCH AS 90° OR 45° BENDS ARE SUPPLIED.
- 8.) NEW COPPER SERVICE MUST BE AT LEAST 5 Ft. DEEP.
- 9.) ALL FITTINGS INCLUDING TAP MUST BE SECURELY BLOCKED.
- 10.) NEW SERVICE INSTALLATION MUST BE IN STRAIGHT LINE TO HOUSE FROM TAP TO ROUNDWAY.
- 11.) IF EXISTING CURB IS SUSPENDED OVER WATER SERVICE TRENCH, IT MUST BE CUT OUT BEFORE W&E WILL PERFORM THE TAP
- 12.) NEW SERVICE INSTALLATION MUST BE COVERED WITH 2 Ft. MIN. OF SAND IN STREET AND AT FOUNDATION OF HOUSE. GOOD QUALITY SPOIL, NO ROCKS, BRICKS, ETC., CAN BE USED IN PARKWAY, OTHERWISE 2 Ft. OF SAND MUST FIRST COVER SERVICE.
- 13.) OLD CORPORATION STOP MUST BE PLUGGED WITH A COPPER DISK AND CAPPED. OLD B-BOX TO BE REMOVED AS WELL



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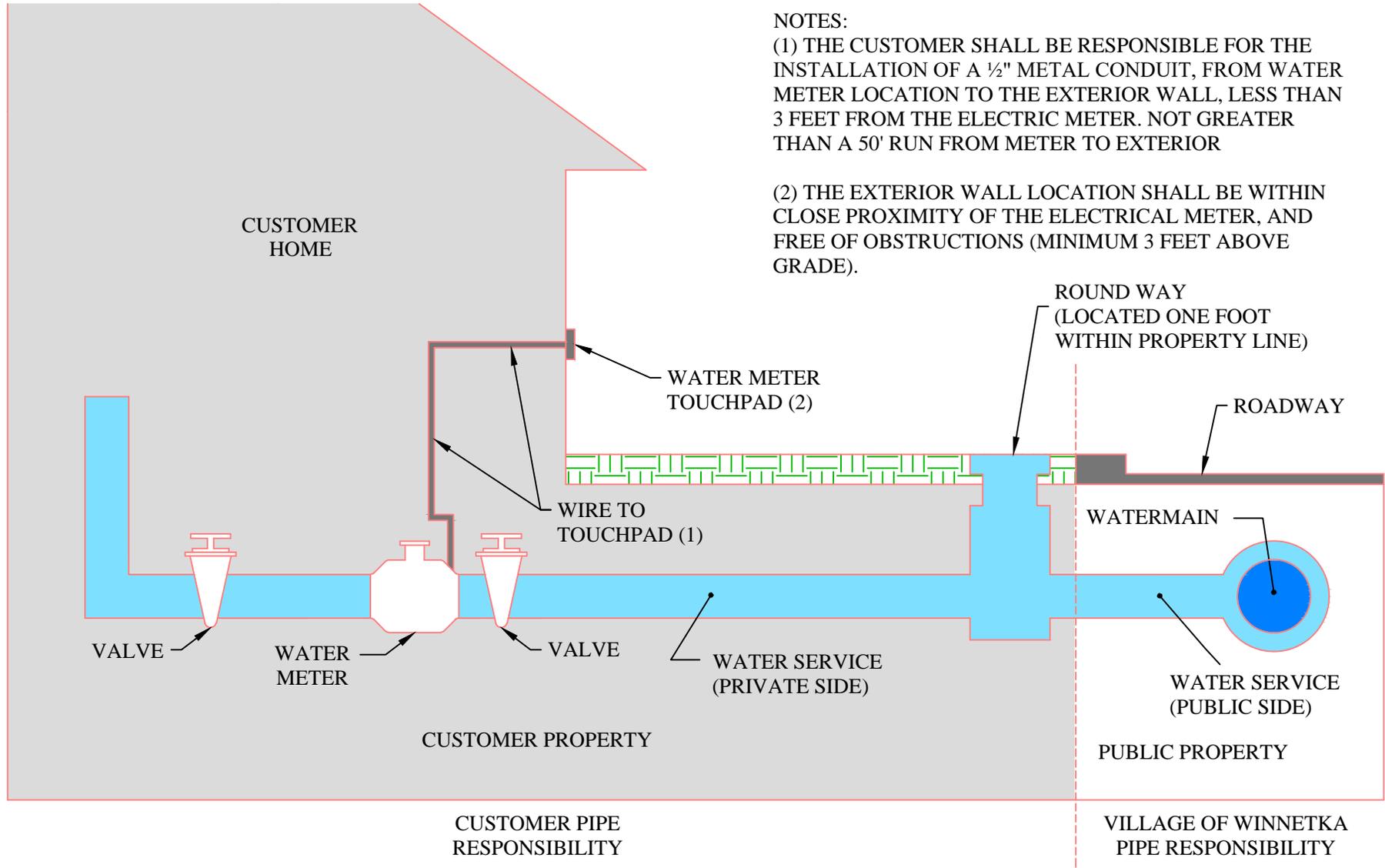
Project Number WATER TAP SPECIFICATION	Drawn NAN W/VOW
Sheet Sheet 1 of 1	Scale Not To Scale
Date 11-20-2019	Approved BLK

WATER SERVICE DIAGRAM

NOTES:

(1) THE CUSTOMER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF A ½" METAL CONDUIT, FROM WATER METER LOCATION TO THE EXTERIOR WALL, LESS THAN 3 FEET FROM THE ELECTRICAL METER. NOT GREATER THAN A 50' RUN FROM METER TO EXTERIOR

(2) THE EXTERIOR WALL LOCATION SHALL BE WITHIN CLOSE PROXIMITY OF THE ELECTRICAL METER, AND FREE OF OBSTRUCTIONS (MINIMUM 3 FEET ABOVE GRADE).



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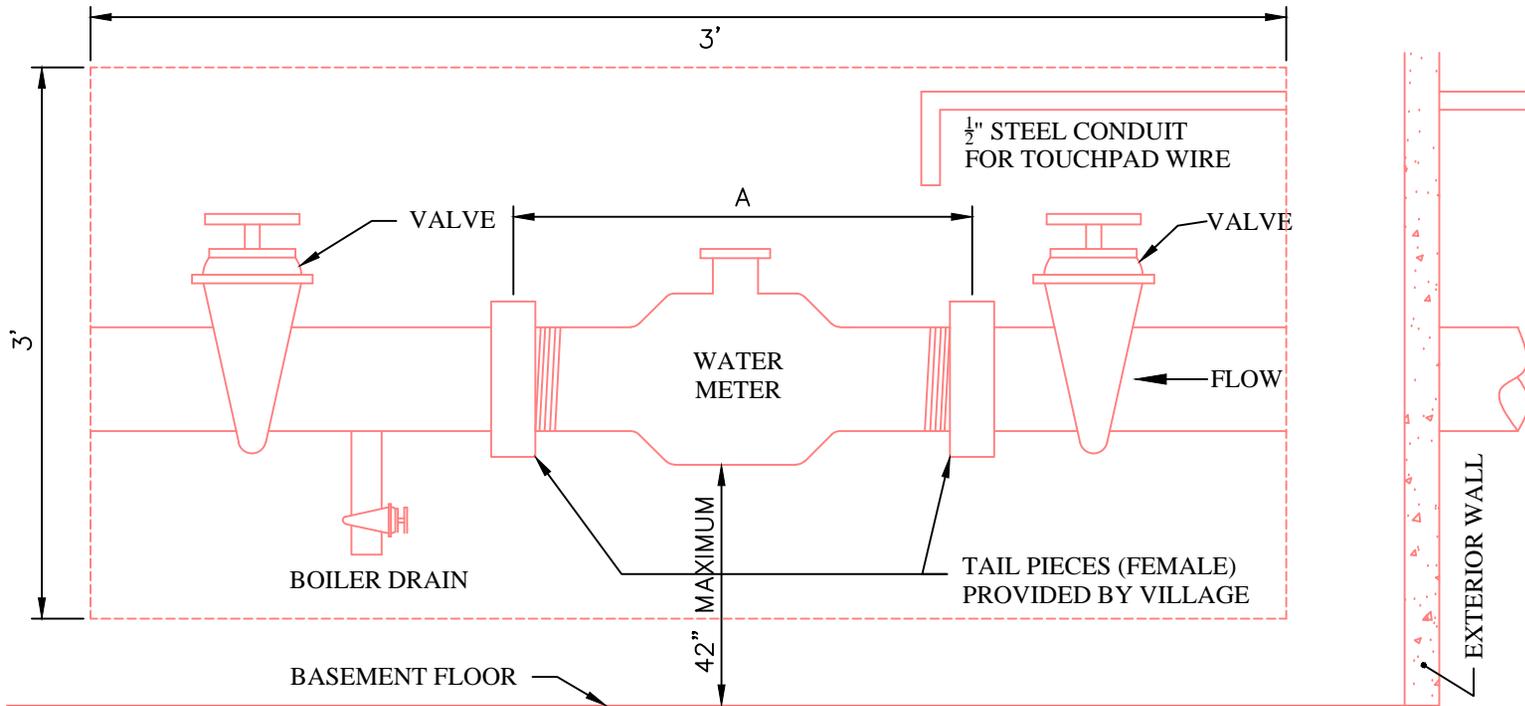
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Project Number Water Service Specs	Drawn SMR w/ASE
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WATER METER INSTALLATION DETAIL



WATER SERVICE SIZE	WATER METER SIZE	DISTANCE "A" (INCHES)
1-1/2"	1"	15.50"
1"	3/4"	13.00"
3/4"	5/8"	11.25"

NOTES:

- (1) WATER METER SHALL BE HORIZONTALLY MOUNTED NO HIGHER THAN 42 INCHES FROM BASEMENT FLOOR
- (2) NO COPPER SWEAT CONNECTION BEFORE METER
- (3) THE AREA AROUND THE WATER METER SHALL BE AN OBSTRUCTION FREE AREA. THIS WILL ALLOW EASY ACCESS TO EFFECTIVELY MAKE REPAIRS. SHOULD AN OBSTRUCTION EXIST, IT SHALL BE THE RESPONSIBILITY OF THE HOMEOWNER TO REMOVE.
- (4) A FRAMED OPENING (AT LEAST 3' WIDE) SHALL BE ESTABLISHED TO ACCESS THE METER IF THE BASEMENT IS FINISHED
- (5) 1/2" STEEL CONDUIT REQUIRED FROM WATER METER TO LOCATION ADJACENT TO ELECTRIC METER. USED FOR REMOTE READ WIRING



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Project Number Water Meter Installation Detail	Drawn SMR w/ASE
Sheet Sheet 1 of 1	Scale Not To Scale
Date 11-20-2019	Approved B.KEYS

FIRE SERVICE DIAGRAM

HOME OR BUSINESS

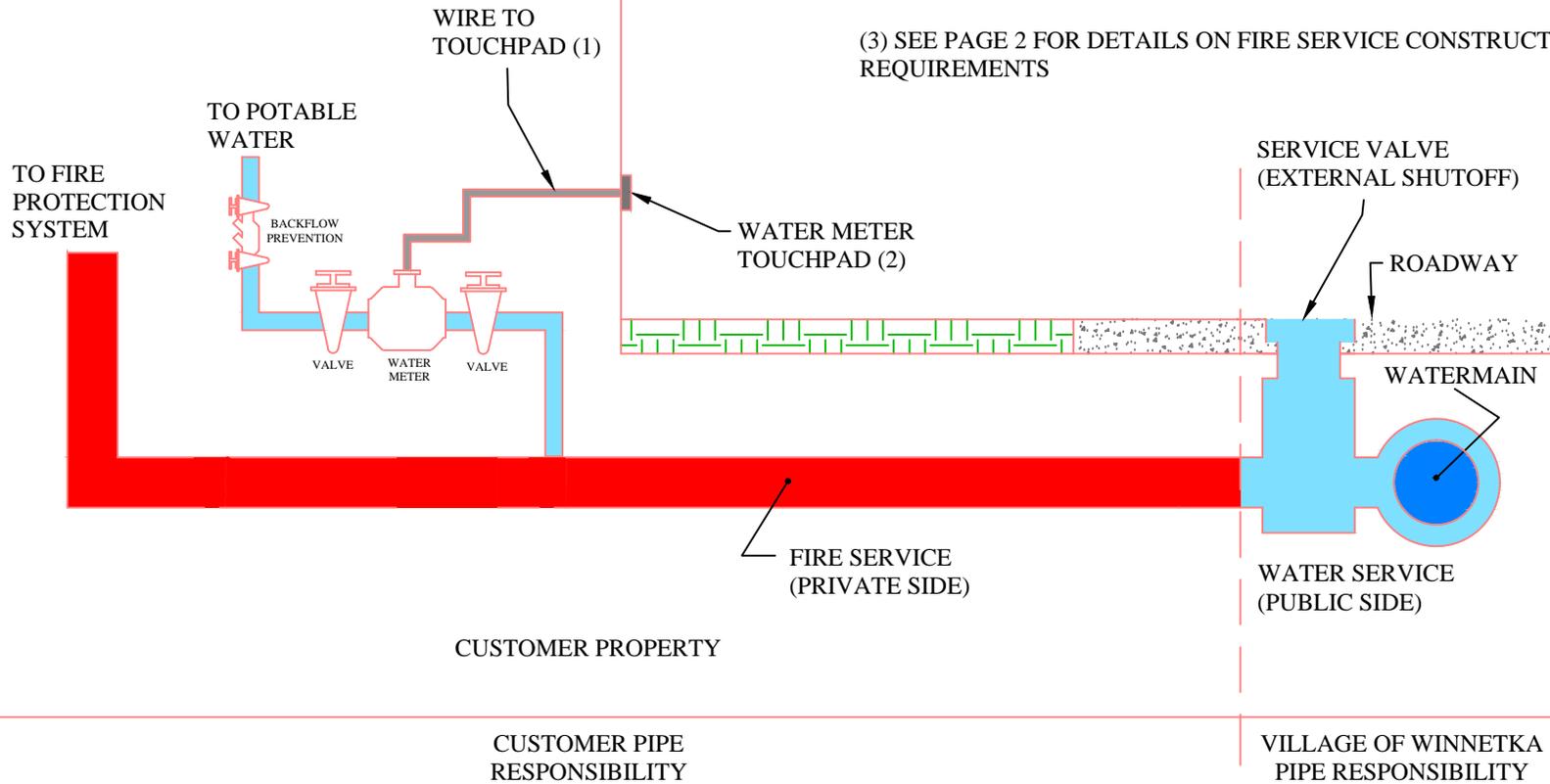
**PLEASE REFER TO PLUMBING AND FIRE CODE FOR ALL INSIDE WORK

NOTES:

(1) THE CUSTOMER SHALL BE RESPONSIBLE FOR THE INSTALLATION OF A 1/2" METAL CONDUIT, FROM WATER METER LOCATION TO THE EXTERIOR WALL. NOT GREATER THAN A 50' RUN FROM METER TO EXTERIOR

(2) THE EXTERIOR WALL LOCATION SHALL BE WITHIN CLOSE PROXIMITY OF THE ELECTRICAL METER, AND FREE OF OBSTRUCTIONS (MINIMUM 3 FEET ABOVE GRADE).

(3) SEE PAGE 2 FOR DETAILS ON FIRE SERVICE CONSTRUCTION REQUIREMENTS



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FIRE SERVICE SPECS

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BLK

FIRE SERVICE REQUIREMENTS (3" OR GREATER)

PROPERTY OWNER RESPONSIBILITIES:

- (1) SHALL PROVIDE AND INSTALL A VALVE VAULT AT THE MAIN TO BE TAPPED. THIS INCLUDES PROVIDING THE EXCAVATION. SIZE OF VAULT TO BE BASED ON MAIN SIZE:
 - a. 48" VAULT FOR MAINS 8" IN DIAMETER OR SMALLER
 - b. 60" VAULT FOR MAINS 10" IN DIAMETER OR LARGER
- (2) THE EXCAVATION SIZE SHALL BE DETERMINED BY THE VAULT SIZE. SHORING PER OSHA REQUIREMENTS SHALL BE PROVIDED BY OWNER. A MINIMUM OF 6 FEET IN FRONT OF THE MAIN MUST BE EXCAVATED TO ALLOW FOR THE TAPPING MACHINE.
- (3) SHALL ONLY INSTALL THE FLOOR PORTION OF THE VAULT UNTIL THE TAP IS COMPLETED. TAP LOCATION MUST BE A MINIMUM OF 2 FEET FROM AN EXISTING SERVICE OR BELL.
- (4) SHALL PROVIDE BLOCKING FOR THE VALVE AND MAIN. MIN OF 8" CLEARANCE BETWEEN VAULT FLOOR AND BOTTOM OF MAIN
- (5) SHALL SUPPLY DUCTILE IRON PIPE, MINIMUM CLASS 55, INTO THE BUILDING. THE DUCTILE IRON PIPE SHALL BE COVERED WITH A MINIMUM 24" OF SAND ABOVE THE PIPE.
- (6) SHALL PRESSURE TEST THE WATER SERVICE TO 150 LBS. FOR ONE HOUR, FLUSH THE SERVICE TO REMOVE ANY DEBRIS AND CHLORINATE THE SERVICE ACCORDING TO IEPA REQUIREMENTS. CHLORINATION TEST MUST BE PERFORMED BY A THIRD PARTY AND WITNESSED BY A REPRESENTATIVE FROM THE WATER PLANT
- (7) SHALL DISCONNECT THE OLD WATER SERVICE AT THE MAIN AND HAVE IT INSPECTED BY WATER & ELECTRIC. A BUILDING WITH A METER VAULT IN THE STREET, SIDEWALK, OR PARKWAY THAT IS BEING ELIMINATED, SHALL HAVE THE TOP TWO FEET OF THE VAULT REMOVED, THE VAULT SHALL BE FILL WITH SAND, AND THE STREET, SIDEWALK OR PARKWAY SHALL BE RESTORED.
- (8) SHALL RESTORE ALL STREET, SIDEWALK, OR PARKWAY EXCAVATIONS ACCORDING TO PUBLIC WORKS DEPARTMENT REQUIREMENTS.
- (9) TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE PROPERTY OWNER/CONTRACTOR.
- (10) ITEMS NOT SPECIFICALLY LISTED SHALL FOLLOW THE PUBLIC WORKS AND ENGINEERING DESIGN GUIDELINES DATED JANUARY 27, 2009, SECTION B, WATER MAIN SYSTEM AND SECTION F, STREETS AND PUBLIC RIGHTS-OF-WAY, AND CAN BE OBTAINED AT THE VILLAGE HALL, COMMUNITY DEVELOPMENT DEPARTMENT.

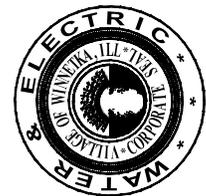
VILLAGE OF WINNETKA, WATER & ELECTRIC DEPARTMENT RESPONSIBILITIES:

- (1) SHALL SUPPLY THE TAPPING SLEEVE AND THE VALVE AND WILL PERFORM THE TAP. MEGALUGS TO CONNECT MAIN TO VALVE NOT PROVIDED.
- (2) SHALL INSPECT THE SERVICE TO THE BUILDING BEFORE IT IS COVERED WITH SAND.
- (3) SHALL OVERSEE THE PRESSURE TEST, CHLORINATION, AND REVIEW THE TEST RESULTS.

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Project Number
**FIRE
SERVICE
SPECS**

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Sheet
Sheet 2 of 2

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