

MILWAUKEE COUNTY, WISCONSIN

PROJECT LOCATION

() INDICATES RECORDED DIMENSION WHERE DIFFERENT FROM ACTUAL MEASUREMENT

⊕ OR □ SECTION OR 1/4 SECTION CORNER AS DESCRIBED

● 1" DIA. IRON PIPE FOUND (UNLESS OTHERWISE NOTED)

○ 1" DIA. IRON PIPE, 18" LONG-SET (UNLESS OTHERWISE NOTED)

⊖ BOLLARD

⊕ SOIL BORING/MONITORING WELL

⌋ FLAGPOLE

⌋ MAILBOX

⌋ SIGN

⌋ BILLBOARD

⌋ AIR CONDITIONER

⌋ CONTROL BOX

⌋ TRAFFIC SIGNAL

⌋ RAILROAD CROSSING SIGNAL

⌋ CABLE PEDESTAL

⌋ POWER POLE

⌋ GUY POLE

⌋ GUY WIRE

⌋ LIGHT POLE

⌋ SPOT/YARD/PEDESTAL LIGHT

⌋ HANDICAPPED PARKING

⌋ ELECTRIC MANHOLE

⌋ ELECTRIC PEDESTAL

⌋ ELECTRIC METER

⌋ ELECTRIC TRANSFORMER

⌋ TELEPHONE MANHOLE

⌋ TELEPHONE PEDESTAL

⌋ MARKED FIBER OPTIC

⌋ GAS VALVE

⌋ GAS METER

⌋ GAS WARNING SIGN

⌋ STORM MANHOLE

⌋ ROUND INLET

⌋ SQUARE INLET

⌋ STORM SEWER END SECTION

⌋ SANITARY MANHOLE

⌋ SANITARY CLEANSOUT OR SEPTIC VENT

⌋ SANITARY INTERCEPTOR MANHOLE

⌋ MISCELLANEOUS MANHOLE

⌋ WATER VALVE

⌋ HYDRANT

⌋ WATER SERVICE CURB STOP

⌋ WATER MANHOLE

⌋ WELL

⌋ WATER SURFACE

⌋ WETLANDS FLAG

⌋ MARSH

★ CONIFEROUS TREE

● DECIDUOUS TREE

○ SHRUB

~~~~~ -EDGE OF TREES

—S— SANITARY SEWER

—STO— STORM SEWER

—W— WATERMAIN

—G— MARKED GAS MAIN

—E— MARKED ELECTRIC

—OH— OVERHEAD WIRES

—B— BUREAU ELEC. SERV.

—T— MARKED TELEPHONE

—T— MARKED CABLE TV LINE

—FO— MARKED FIBER OPTIC

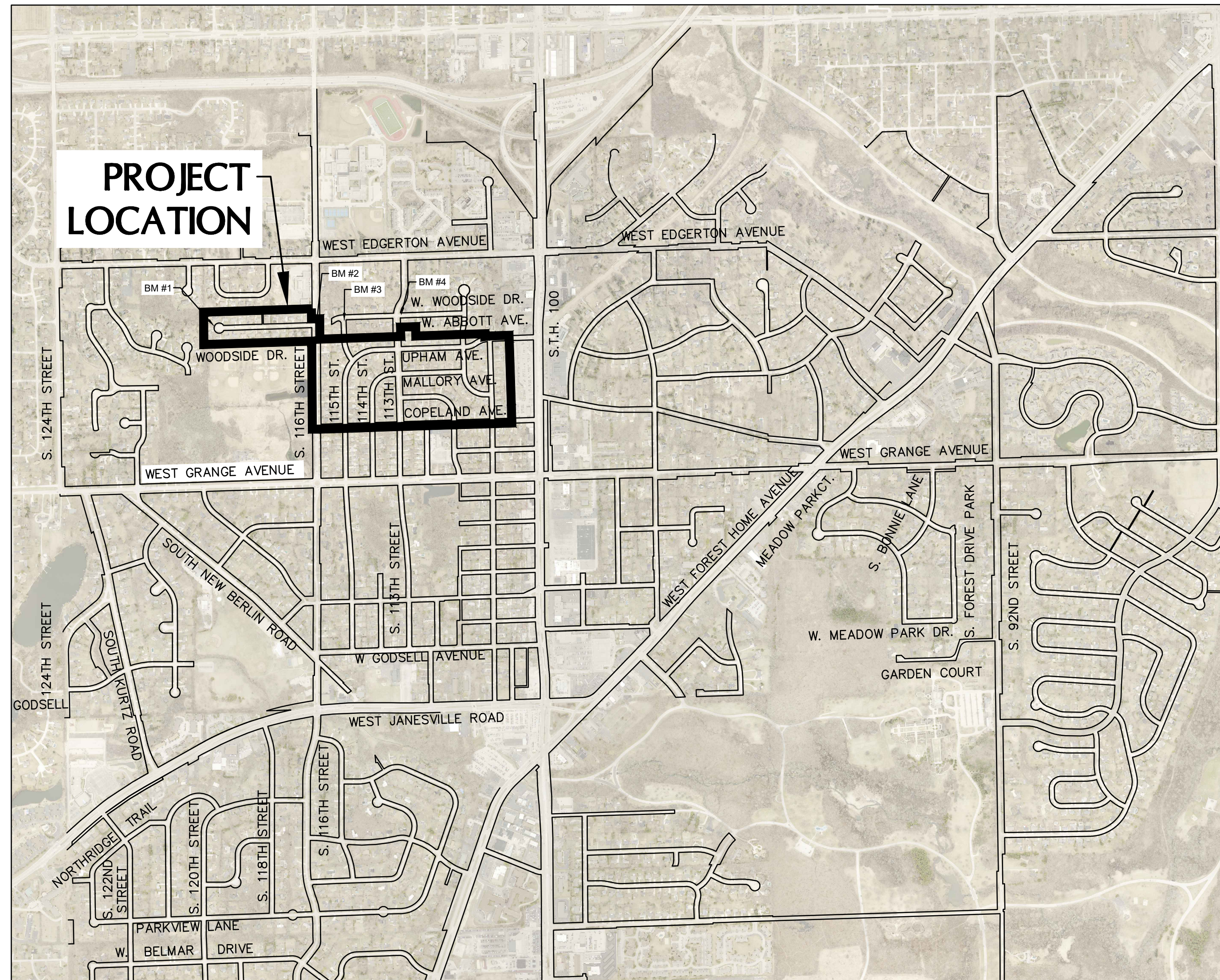
— — — — — INDICATES EXISTING

— — — — — INDICATES ELEVATION

— — — — — INDICATES EXISTING

— — — — — ELEVATION

× 780.55



VILLAGE OF  
HALES CORNERS  
W I S C O N S I N

| <u>SHEET NO.</u> | <u>DESCRIPTION</u>                     |
|------------------|----------------------------------------|
| 00               | COVER SHEET                            |
| 01               | PROJECT OVERVIEW & GENERAL NOTES       |
| 02               | CONTROL POINTS                         |
|                  | <u>PUBLIC WATER MAIN</u>               |
| W00              | WATER MAIN OVERVIEW                    |
| W01              | WATER MAIN SPECIFICATIONS              |
| W02              | WATER MAIN SHEET INDEX                 |
| W03              | WATER MAIN CONNECTION SEQUENCE         |
| W04              | UTILITY TYPICAL SECTION                |
| 1-2              | W. WOODSIDE DRIVE PLAN & PROFILE       |
| 1-2              | S. 116TH STREET PLAN & PROFILE         |
| 1-4              | W. COPELAND AVE PLAN & PROFILES        |
| 1-2              | S. 110TH STREET PLAN & PROFILE         |
| 1-2              | S. 111TH STREET PLAN & PROFILE         |
| 1-2              | S. 113TH STREET PLAN & PROFILE         |
| 1                | S. 115TH STREET PLAN & PROFILE         |
| 1-3              | W. ABBOTT AVE. PLAN & PROFILE          |
| 1-3              | W. UPHAM AVE. PLAN & PROFILE           |
| 1-2              | W. MALLORY AVE. PLAN & PROFILE         |
|                  | <u>PRIVATE WATER MAIN PLANS</u>        |
| PS1-PS13         | PRIVATE SIDE WATER MAIN EXHIBITS       |
|                  | <u>ROADWAY PLANS</u>                   |
| R00              | ROADWAY OVERVIEW                       |
| R01              | ROADWAY SHEET INDEX                    |
| R02-R03          | ROADWAY TYPICAL SECTIONS               |
| R04-R06          | W. WOODSIDE DRIVE PLAN & PROFILE       |
| R07-R09          | S. 116TH STREET PLAN & PROFILE         |
| R10-R14          | W. COPELAND AVE. PLAN & PROFILE        |
| R15-R21          | W. ABBOTT AVE. & S. 115TH ST. PLAN & P |
| R22-R25          | S. 114TH ST. & W. UPHAM AVE. PLAN & PR |
| R26-R28          | S. 113TH ST. PLAN & PROFILE            |
| R29-R30          | W. MALLORY AVE. PLAN & PROFILE         |
| R31-R32          | S. 110TH ST. PLAN & PROFILE            |
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| R35-R40          | PAVEMENT MARKING PLAN                  |
| R41              | SIGNING PLAN                           |
| R42              | PROJECT DETAILS                        |




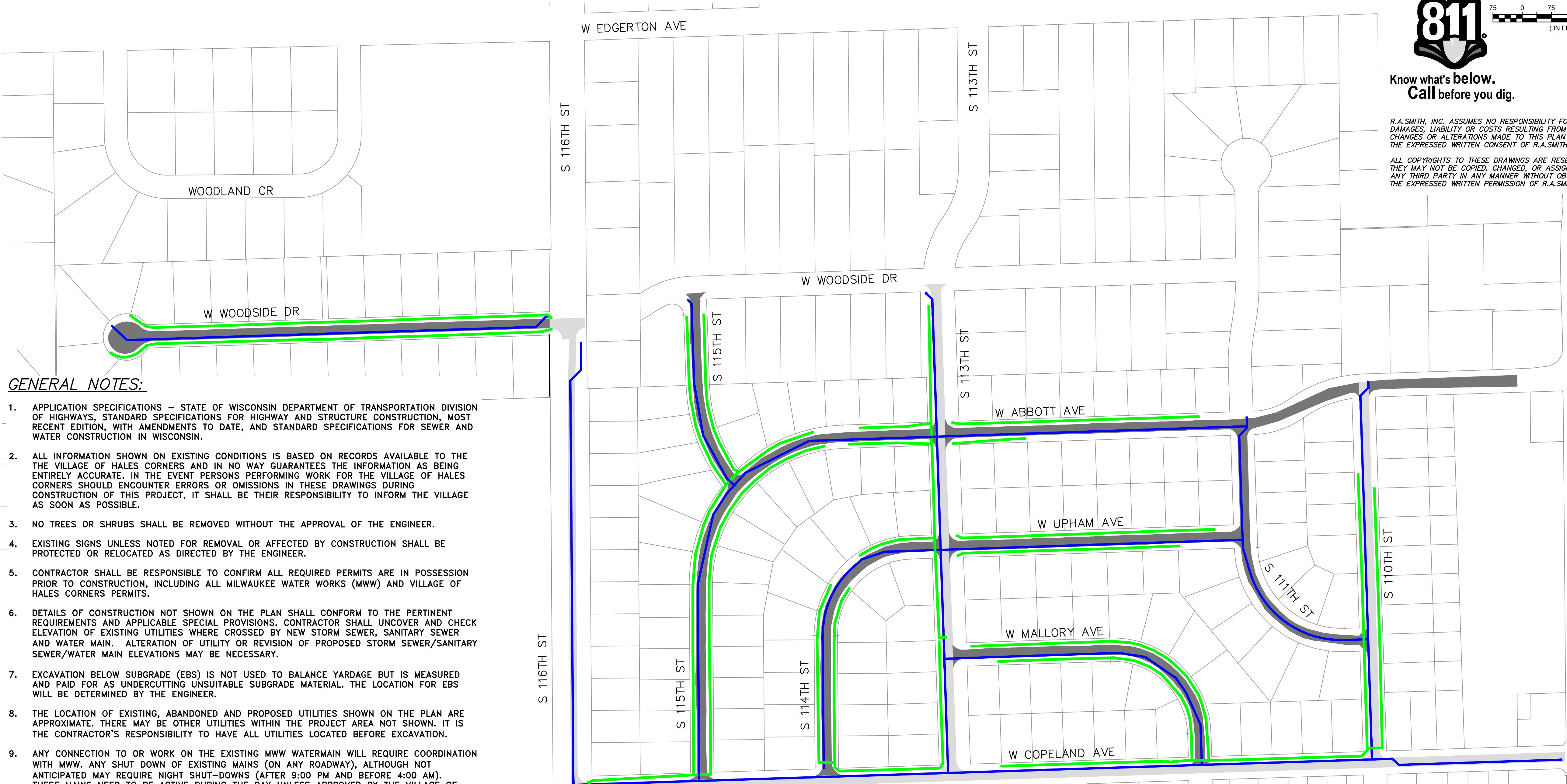
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RELEASED FOR CONSTRUCTION DRAFT: 5/14/2025

[illegible]

|                                                                                         |  |                                                                                       |  |
|-----------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|--|
| HALES HAPPINESS WATER<br>MAIN CONVERSION<br>VILLAGE OF HALES CORNERS<br><br>COVER SHEET |  |  |  |
| © COPYRIGHT 2025<br>R.A. Smith, Inc.                                                    |  |                                                                                       |  |
| DATE: 02/12/2025                                                                        |  |                                                                                       |  |
| SCALE: 1" = 1000'                                                                       |  |                                                                                       |  |
| JOB NO. 2243000                                                                         |  |                                                                                       |  |
| PROJECT MANAGER:<br>TROY T. HARTJES, P.E.                                               |  |                                                                                       |  |
| DESIGNED BY: RSG                                                                        |  |                                                                                       |  |
| CHECKED BY: TTH                                                                         |  |                                                                                       |  |
| SHEET NUMBER                                                                            |  |                                                                                       |  |
| 00                                                                                      |  |                                                                                       |  |






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GRAPHIC SCALE

75 0 75 150 300

(IN FEET)



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GENERAL NOTES:

- APPLICATION SPECIFICATIONS – STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, MOST RECENT EDITION, WITH AMENDMENTS TO DATE, AND STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN.
- ALL INFORMATION SHOWN ON EXISTING CONDITIONS IS BASED ON RECORDS AVAILABLE TO THE VILLAGE OF HALES CORNERS AND IN NO WAY GUARANTEES THE INFORMATION AS BEING ENTIRELY ACCURATE. IN THE EVENT PERSONS PERFORMING WORK FOR THE VILLAGE OF HALES CORNERS SHOULD ENCOUNTER ERRORS OR OMISSIONS IN THESE DRAWINGS DURING CONSTRUCTION OF THIS PROJECT, IT SHALL BE THEIR RESPONSIBILITY TO INFORM THE VILLAGE AS SOON AS POSSIBLE.
- NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- EXISTING SIGNS UNLESS NOTED FOR REMOVAL OR AFFECTED BY CONSTRUCTION SHALL BE PROTECTED OR RELOCATED AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM ALL REQUIRED PERMITS ARE IN POSSESSION PRIOR TO CONSTRUCTION, INCLUDING ALL MILWAUKEE WATER WORKS (MWW) AND VILLAGE OF HALES CORNERS PERMITS.
- DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL CONFORM TO THE PERTINENT REQUIREMENTS AND APPLICABLE SPECIAL PROVISIONS. CONTRACTOR SHALL UNCOVER AND CHECK ELEVATION OF EXISTING UTILITIES WHERE CROSSED BY NEW STORM SEWER, SANITARY SEWER AND WATER MAIN. ALTERATION OF UTILITY OR REVISION OF PROPOSED STORM SEWER/SANITARY SEWER/WATER MAIN ELEVATIONS MAY BE NECESSARY.
- EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE BUT IS MEASURED AND PAID FOR AS UNDERCUTTING UNSUITABLE SUBGRADE MATERIAL. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER.
- THE LOCATION OF EXISTING, ABANDONED AND PROPOSED UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UTILITIES LOCATED BEFORE EXCAVATION.
- ANY CONNECTION TO OR WORK ON THE EXISTING MWW WATERMAIN WILL REQUIRE COORDINATION WITH MWW. ANY SHUT DOWN OF EXISTING MAINS (ON ANY ROADWAY), ALTHOUGH NOT ANTICIPATED MAY REQUIRE NIGHT SHUT-DOWNS (AFTER 9:00 PM AND BEFORE 4:00 AM). THESE MAINS NEED TO BE ACTIVE DURING THE DAY UNLESS APPROVED BY THE VILLAGE OF HALES CORNERS AND MWW. COORDINATE ANY SHUT DOWN AND RECONNECTION OF SERVICES WITH ALL PROPERTY OWNERS BEFORE DISCONNECTING EXISTING WATER SERVICES.
- SALVAGE EXISTING SIGNS & ANY OTHER ITEMS (CASTINGS, HYDRANTS, ETC.) TO VILLAGE OF HALES CORNERS PUBLIC WORKS DEPARTMENT AT 5635 S. NEW BERLIN RD.
- CONTRACTOR REQUIRED TO KEEP ALL ROADS OPEN WITH ACCESS TO PROPERTIES AT ALL TIMES.
- UNLESS MULTIPLE CREWS ARE WORKING, CONTRACTOR SHALL NOT PULVERIZE ROADWAY OR INSTALL LOW FLOW PIPING ON ANY ROADWAY UNTIL THE WATERMAIN HAS BEEN INSTALLED AND APPROVED. IT IS ASSUMED MULTIPLE CREWS WILL BE REQUIRED AND ROADWAY WORK WILL FOLLOW BEHIND THE WATER INSTALLATION BY STREET.
- MULTIPLE MOBILIZATIONS AND STAGING WILL BE REQUIRED AND ALL STAGING AND MOBILIZATIONS COSTS ARE INCIDENTAL TO THE TRAFFIC CONTROL AND STAGING BID ITEMS.
- VERTICAL DATUM IS TO THE CITY OF MILWAUKEE DATUM
- WATER SERVICE LOCATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE PLACE HOLDERS UNTIL SERVICE LOCATIONS CAN BE FILED VERIFIED AND/OR CONFIRMED WITH FIELD INSPECTION REPORTS. CONTRACTOR TO FIELD VERIFY ALL SERVICES AT TIME OF CONSTRUCTION.
- THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREIN IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES, MILWAUKEE COUNTY, LOCAL MUNICIPALITIES, AND UTILITY LOCATORS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
- CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS (VERTICALLY AND HORIZONTALLY) PRIOR TO CONSTRUCTION (CONNECTIONS & CROSSEINGS). ANY DISCREPANCIES SHALL BE DISCUSSED WITH THE ENGINEER.
- ALL ELEVATIONS, LOCATIONS & SIZES AT CONNECTION POINTS TO EXISTING UTILITIES SHALL BE FIELD VERIFIED PRIOR TO PROCEEDING WITH ANY UPSTREAM FACILITIES. ANY SIDE STREET SERVICE CONNECTIONS OR OFFSETS SHALL BE CONFIRMED PRIOR TO PROCEEDING WITH DOWNSTREAM EXTENSIONS.
- EXISTING PRIVATE UTILITIES WILL BE RELOCATED PRIOR TO AND DURING CONSTRUCTION. PRIVATE UTILITIES SHALL BE POTHOLED AND CONFIRMED PRIOR TO CONSTRUCTION. EXISTING FACILITIES SHOWN ARE BASED ON LOCATIONS FROM 2023 & EARLY 2024.
- EXISTING PRIVATE HALES HAPPINESS WATER MAIN HAS LIMITED HISTORICAL RECORDS. THE AS-BUILT IS INCLUDED IN THE APPENDIX OF THE BID SET. VERY FEW CURB STOPS WERE FIELD VERIFIED WHILE SURVEYING (ADDITIONAL MIGHT BE BURIED). THERE ARE LIMITED STREET VALVES AND THEIR CONDITION IS NOT KNOWN. TWO WELLS SERVED THE SYSTEM BUT ONE HAS FAILED AND THE SYSTEM IS NOW ONLY SERVED OFF THE COPELAND AVENUE WELL. CONTRACTOR TO KEEP THE EXISTING SYSTEM LIVE AT ALL TIMES WHILE PERFORMING WORK.

WE ENERGIES (GAS)  
CONTACT JASON DODGE  
(414-944-5507 OFFICE)  
(262-894-2495 CELL)  
(jason.dodge@we-energies.com)

WE ENERGIES (ELECTRIC)  
CONTACT DANIEL BANDOR  
(414-944-5714 OFFICE)  
(414-254-1865 CELL)  
(Daniel.Bandor@WE-Energies.com)

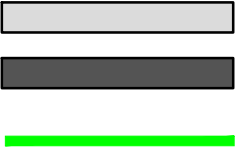
CHARTER COMMUNICATION  
CONTACT MARIO OVIEDO  
(414-277-4256 OFFICE)  
(262-336-1484 CELL)  
(mario.oviedo@charter.com)

AT&T WISCONSIN  
CONTACT Nathan Gilbert  
(262-720-8235 CELL)  
(ng952w@att.com)

MILWAUKEE WATER WORKS  
CONTACT JOSHUA IWEN  
(414-286-3640)  
(jiwen@milwaukee.gov)

VILLAGE OF HALES CORNERS  
CONTACT STEVEN HOUTE  
(414-529-6165 OFFICE)  
(shoute@halescorners.org)

LEGEND:  
MILL & OVERLAY  
PULVERIZE & RELAY  
LOW FLOW PIPING



HALES HAPPINESS WATER  
MAIN CONVERSION  
VILLAGE OF HALES CORNERS

PROJECT OVERVIEW  
& GENERAL NOTES

| DESCRIPTION | DATE |
|-------------|------|
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W62 N588 Washington Ave., Ste. 201  
Cedarburg, WI 53012-2074  
(262) 781-1000  
rasmith.com

raSmith  
CREATIVITY BEYOND ENGINEERING

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI  
Cedarburg, WI | Naperville, IL | Irvine, CA

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DATE: 02/12/2025

SCALE: 1" = 150'

JOB NO. 2243000

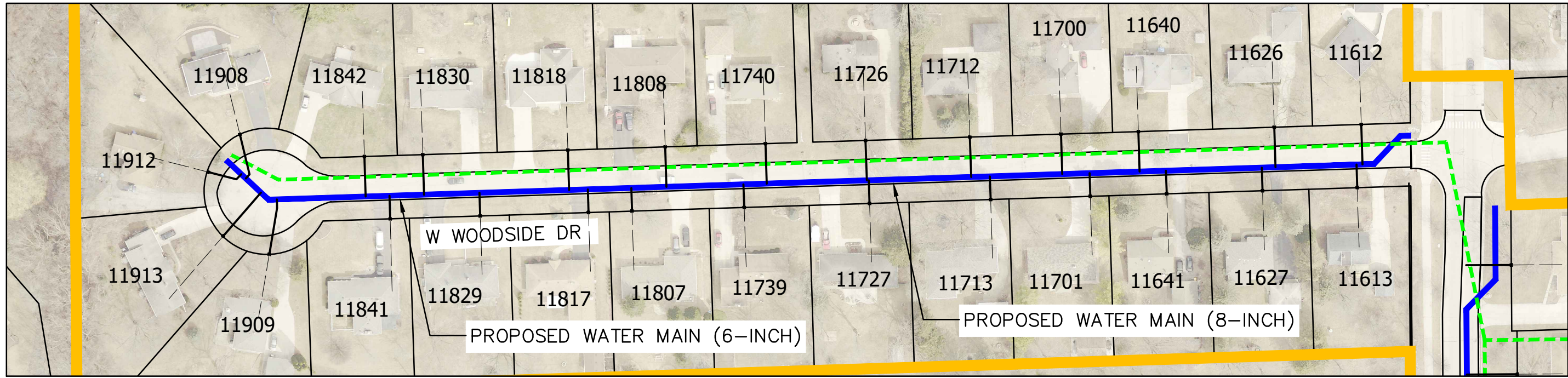
PROJECT MANAGER:  
TROY T. HARTJES, P.E.

DESIGNED BY: RSG

CHECKED BY: TTH

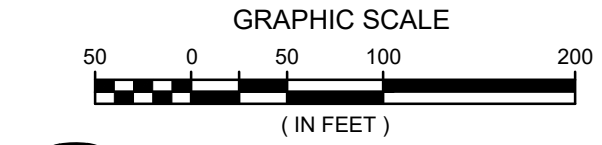
SHEET NUMBER

01



- LEGEND:**
- PROPOSED MWW WATER MAIN (BLUE)
  - EXISTING HALES HAPPINESS WATER MAIN (GREEN DASH)
  - EXISTING MWW WATER MAIN (RED DASH)
  - PROJECT LIMITS (ORANGE)

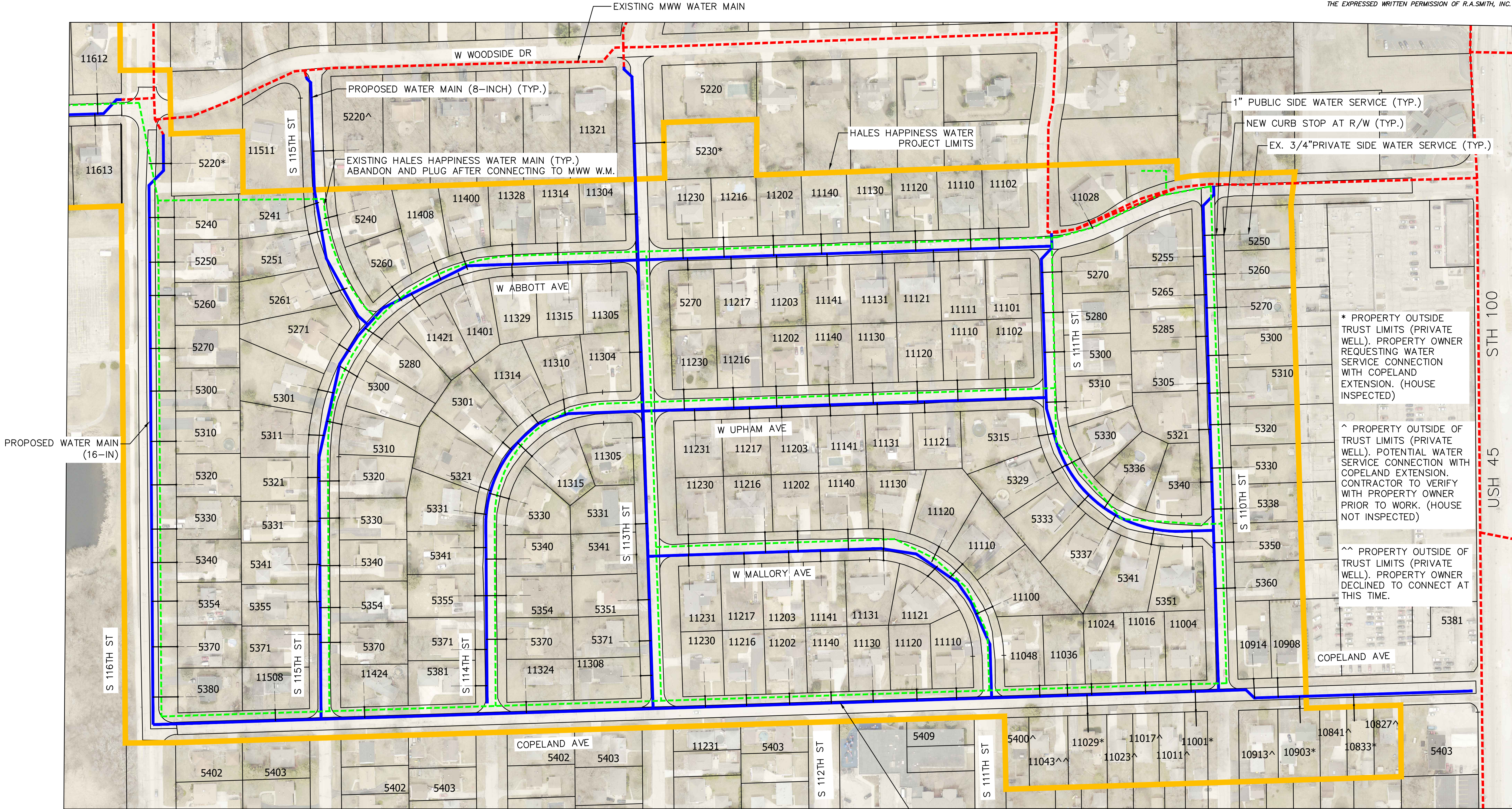
NOTE: WATER SERVICE LOCATIONS ARE APPROXIMATE.  
CONTRACTOR TO FIELD VERIFY ALL WATER  
SERVICE LOCATIONS.



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\* PROPERTY OUTSIDE  
TRUST LIMITS (PRIVATE  
WELL). PROPERTY OWNER  
REQUESTING WATER  
SERVICE CONNECTION  
WITH COPELAND  
EXTENSION. (HOUSE  
INSPECTED)

^ PROPERTY OUTSIDE OF  
TRUST LIMITS (PRIVATE  
WELL). POTENTIAL WATER  
SERVICE CONNECTION WITH  
COPELAND EXTENSION.  
CONTRACTOR TO VERIFY  
WITH PROPERTY OWNER  
PRIOR TO WORK. (HOUSE  
NOT INSPECTED)

^^ PROPERTY OUTSIDE OF  
TRUST LIMITS (PRIVATE  
WELL). PROPERTY OWNER  
DECLINED TO CONNECT AT  
THIS TIME.

HALES HAPPINESS WATER  
MAIN CONVERSION  
VILLAGE OF HALES CORNERS

WATER MAIN  
OVERVIEW

**raSmith**  
CREATIVITY BEYOND ENGINEERING

W62 N588 Washington Ave., Ste. 201  
Cedarburg, WI 53012-2074  
(262) 781-1000  
rasmith.com

Brookfield, WI | Milwaukee, WI | Appleton, WI | Madison, WI  
Cedarburg, WI | Naperville, IL | Irvine, CA

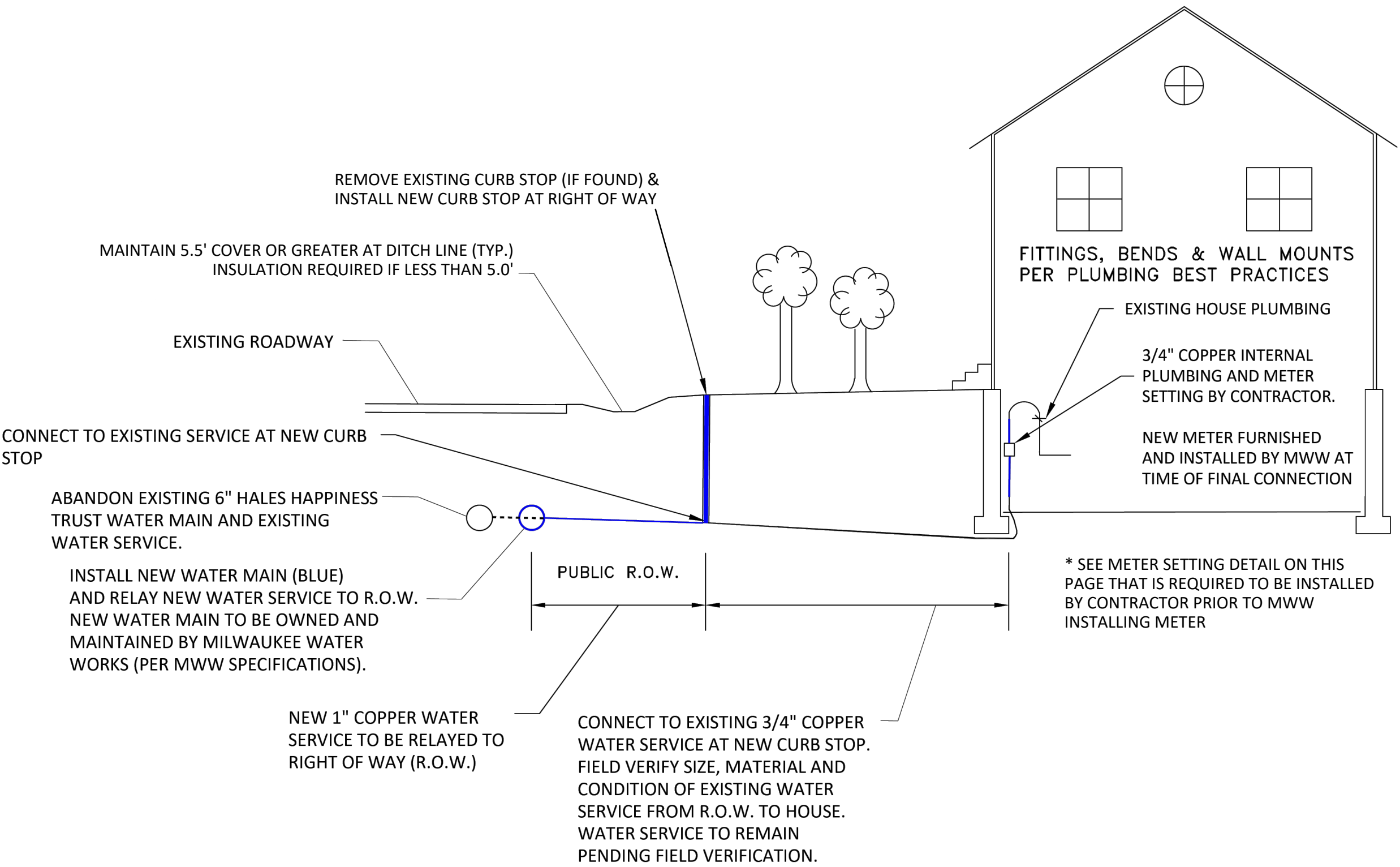
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DATE: 02/12/2025  
SCALE: 1" = 100'  
JOB NO. 2243000  
PROJECT MANAGER:  
TROY T. HARTJES, P.E.  
DESIGNED BY: RSG  
CHECKED BY: TTH

SHEET NUMBER  
W00

WATER MAIN GENERAL NOTES

GENERAL UTILITY NOTES:

1. ALL WATER MAIN CONSTRUCTION AND MATERIALS TO FOLLOW MILWAUKEE WATER WORKS (MWW) SPECIFICATIONS. MWW SPECIFICATIONS TAKES PRESEDENCE OVER ANY DISCREPANCIES BETWEEN THESE GENERAL NOTES AND THE MWW SPECIFICATIONS.
2. CONTRACTOR TO MAINTAIN MINIMUM 18" CLEARANCE WHEN WATER MAIN CROSSES UNDER SEWER, AND 6" MINIMUM OVER SEWER. PROVIDE 2" INSULATION BETWEEN WATER MAIN AND SEWER CROSSINGS WHERE THE VERTICAL SEPARATION IS LESS THAN 2.0'.
3. EXISTING CONDITIONS AND STRUCTURES NOT PICKED UP WITH SURVEY ARE BASED OFF OF ORIGINAL SUBDIVISION AS-BUILT PLANS AND SHOULD BE ASSUMED TO BE APPROXIAMTE LOCATIONS AND ELEVATIONS. FIELD VERIFY LOCATION AND ELEVATIONS PRIOR TO COMMENCING WORK. POTHOLE EXISTING WATER MAIN AT CROSSINGS PRIOR TO RELAY (INCIDENTAL TO RELAY).
4. THE LOCATION OF EXISTING, ABANDONED AND PROPOSED UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITH THE PROJECT THAT ARE NOT SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL UTILITIES LOCATED BEFORE EXCAVATION.
5. USE CAUTION TO AVOID EXISTING SERVICES & MAINTAIN EXISTING SERVICES AT ALL TIMES. FIELD VERIFY LOCATION AND ELEVATIONS AS NECESSARY.
6. WATER MAIN TO BE TESTED IN SEGMENTS; CONTRACTOR TO SUBMIT FINAL SEQUENCE AND TESTING SCHEDULE TO BE APPROVED BY MWW AND THE VILLAGE OF HALES CORNERS.
7. KEEP EXISTING WATER LIVE AT ALL TIMES
8. NEW WATER MAIN DESIGNED TO GO UNDER EXISTING MAIN BUT EXISTING WATER MAIN ELEVATIONS ARE APPROXIMATE; CONTRACTOR REQUIRED TO CONFIRM ELEVATIONS OF EXISTING PRIOR TO EXTENDING MAINS TO AVOID UNNECESSARY OFFSETS
9. FIELD VERIFY/POTHOLE EXISTING MAIN TO VERIFY ELEVATIONS (INCIDENTAL TO RELAY)
10. STRAP/RESTRAIN COPELAND VALVES WHEN STUBBING OUT FOR SIDE STREETS.
11. MAINTAIN EXISTING FLOWS WITHIN DITCH. LOCATIONS NOT COVERED BY ROADWAY DITCHING SHALL BE INCIDENTAL TO WATER SERVICE RELAY
12. ROADWAY AND DRIVEWAY CROSSINGS TO BE SAWCUT AND RESTORED WITH GRANULAR BACKFILL TO EXISTING SURFACE ON PULVERIZE SECTIONS (MATCH EX. GRADES) AND MAINTAINED UNTIL ROADWAY REHABILITATION STARTS (MILL AND OVERLAY RESTORATION TO BE BROUGHT TO EXISTING GRADE WITH BINDER) – COST IS INCIDENTAL TO WATER MAIN.
13. FIELD VERIFY NEW SERVICE LOCATION AND CONFIRM TAP PRIOR TO INSTALLING
14. ALL HOUSES WITHIN TRUST WILL REQUIRE NEW WATER SERVICE. CONTRACTOR RESPONSIBLE TO CONFIRM EACH HOUSE WITHIN TRUST HAS NEW (WATER SERVICE)
15. CONTRACTOR TO WORK WITH VILLAGE AND CONFIRM ADDITIONAL PROPERTIES REQUIRING SERVICES AND ADHERE TO SAME REQUIREMENTS AS NOTED FOR PROPERTIES WITHIN THE TRUST; ADDITIONAL INTERIOR PLUMBING AND/OR PRIVATE SIDE SERVICES PAID FOR UNDER SEPARATE BID ITEMS.
16. EACH HOUSE WILL REQUIRE PRE-INSPECTION AND COORDINATION FOR METER CONNECTION
17. ADDITIONAL INSPECTION AT TIME OF METER INSTALL WILL BE REQUIRED
18. CONTRACTOR TO FLUSH SYSTEM UPON CONNECTING TO PUBLIC SYSTEM AND VERIFY NO ISSUES WITH NEW CONNECTION
19. ALL HOUSE VISITS, INSPECTIONS, INTERNAL PLUMING COSTS INCLUDED WITH CONNECT TO INTERIOR PLUMBING &/OR MWW METER/PERMIT/COORDINATION BID ITEMS



MILWAUKEE WATER WORKS SPECIFICATIONS (SEE FILE NUMBER 2025007)

GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS" DATED JANUARY 2, 1987. ADDITIONALLY, ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE "MILWAUKEE WATER WORKS SPECIAL PROVISIONS FOR WATER MAIN CONSTRUCTION", WHICH IS AVAILABLE ONLINE AT [HTTP://CITY.MILWAUKEE.GOV/WATER/PERMITSSPECS](http://CITY.MILWAUKEE.GOV/WATER/PERMITSSPECS).

THE DEPARTMENT OF PUBLIC WORKS GENERAL SPECIFICATIONS, DATED JANUARY 31, 1992, LATEST REVISION, APPLIES TO THIS CONTRACT AND WILL SUPERSEDE ANY PART OF THE SPECIFICATIONS WHICH DIFFERS THEREFROM.

ALL WORK DONE ON THE MWW SYSTEM SHALL BE PERFORMED BY A CITY CERTIFIED JOINT ASSEMBLER.

THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED TO COMPLETE THIS PROJECT.

MWW 24/7 CONTROL CENTER - (414) 286-3710

VALVE BOX BASE ADAPTERS

ALL VALVE BOXES SHALL BE INSTALLED ON GATE VALVES WITH THE USE OF THE VALVE BOX BASE ADAPTERS, "ADAPTOR II" AS MANUFACTURED BY ADAPTOR INC. OR AN APPROVED EQUAL. THE ADAPTER SHALL BE INSTALLED IN ADDITION TO THE HARDWOOD BLOCKING. COST OF THE ADAPTER SHALL BE INCLUDED IN THE UNIT BID PRICE TO FURNISH AND INSTALL WATER MAIN.

ABANDONMENT OF VALVE BOXES

IN ACCORDANCE WITH SECTION 5.14.5 OF THE CITY OF MILWAUKEE "WATER MAIN INSTALLATION SPECIFICATIONS", WHEN VALVES OR CURB STOPS ARE TO BE ABANDONED, THE CONTRACTOR SHALL REMOVE ONLY THE TOP SECTION OF THE VALVE OR SERVICE BOX AND BACKFILL THE REMAINING HOLE WITH GRAVEL. ALL VALVE AND CURB STOP BOXES ON MAINS TO BE ABANDONED AS PART OF THE CONTRACT SHALL BE ABANDONED IN THIS MANNER. THE ABANDONMENT SHALL INCLUDE ALL NECESSARY PAVEMENT OR SOD REPLACEMENT.

BACKFILL AND BEDDING MATERIAL

THE REQUIREMENTS FOR BACKFILL AND BEDDING MATERIAL SHALL BE AS STATED IN THE "MILWAUKEE WATER WORKS SPECIAL PROVISIONS FOR WATER MAIN CONSTRUCTION".

SPECIFICATIONS

MATERIAL SPECIFICATIONS FOR FURNISHED MATERIALS MAY BE FOUND AT [HTTP://CITY.MILWAUKEE.GOV/WATER/PERMITSSPECS](http://CITY.MILWAUKEE.GOV/WATER/PERMITSSPECS). LOCAL SUPPLIERS ALSO HAVE COPIES OF THE SPECIFICATIONS FOR ALL MATERIALS. COPIES ARE ALSO AVAILABLE ON REQUEST FROM THE CITY OF MILWAUKEE WATER ENGINEERING DIVISION.

MATERIAL & CONSTRUCTION INSPECTION

ALL MATERIALS WILL REQUIRE INSPECTION BY THE CITY.

THE CONTRACTOR SHALL ALLOW FOUR (4) WORKING DAYS NOTICE PRIOR TO START OF CONSTRUCTION FOR MATERIAL INSPECTION AND FOR SCHEDULING CONSTRUCTION INSPECTION. CONTRACTOR SHALL CONTACT [WATENGCON@MILWAUKEE.GOV](mailto:WATENGCON@MILWAUKEE.GOV) FOR MATERIAL INSPECTION AND CONSTRUCTION INSPECTION.

EXISTING WATER MAIN SHUT-OFF

THE CONTRACTOR SHALL PROVIDE A MINIMUM TWO (2) WORKING DAY NOTICE (8AM) TO THE MILWAUKEE WATER WORKS DISTRIBUTION WHEN REQUESTING A SHUT-OFF. WET CONNECTION, SAFE WATER SAMPLE, PRESSURE TESTING, AND CHLORINATION. THE CONTRACTOR SHALL COORDINATE VIA EMAIL [WATCONST@MILWAUKEE.GOV](mailto:WATCONST@MILWAUKEE.GOV).

LINE AND GRADE

PRIMARY LINE AND GRADE FOR THIS WORK IS THE RESPONSIBILITY OF THE CONSULTANT / DEVELOPER. SECONDARY LINE AND GRADE IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR. PRIOR TO STARTING WORK, PROPOSED CONNECTIONS, VALVES, BENDS, TEES, AND OTHER APPURTENANCES SHALL BE LOCATED, WITH OFFSET STAKES AS NECESSARY, BY THE CONTRACTOR.

HYDRANT PERMITS

A \$70.00 HYDRANT PERMIT/USE FEE WILL BE PART OF THE HYDRANT USE PERMIT. THIS FEE IS PER HYDRANT PER WEEK.

IT IS THE INTENTION OF THE CITY OF MILWAUKEE TO METER AND RECORD ALL WATER USE ON THIS CONTRACT. THE CONTRACTOR MUST OBTAIN A HYDRANT PERMIT FOR THIS CONTRACT WHICH INCLUDES THE REQUIREMENT OF A METER TO MEASURE WATER USAGE. THIS PERMIT CAN BE OBTAINED FROM THE CITY'S DEVELOPMENT CENTER LOCATED AT 809 N. BROADWAY. WEBSITE - [HTTPS://CITY.MILWAUKEE.GOV/PERMITS](https://CITY.MILWAUKEE.GOV/PERMITS)

IF IT IS FOUND THAT THE CONTRACTOR IS NOT FOLLOWING THE STANDARD HYDRANT PERMIT USE RULES, THE CITY OF MILWAUKEE WILL TAKE NORMAL ENFORCEMENT ACTION.

THE PERMIT REQUIRES THE CONTRACTOR TO PLACE A REFUNDABLE \$1695.00 DEPOSIT FOR EACH METER TO BE USED. THE CONTRACTOR WILL ALSO BE REQUIRED TO PAY \$350.00 FOR THE SET UP OF THE METER. THE CONTRACTOR WILL BE CHARGED FOR THE VOLUME OF WATER USED AND READ ON THE METER(S).

QUESTIONS, ARRANGING INSTALLATIONS, AND READINGS

MWW METER SERVICES, 414-286-8000

JOINT RESTRAINT OPTION

DUCTILE IRON PIPE AND FITTINGS (EXCEPT HYDRANT BRANCHES) MAY BE RESTRAINED USING FIELDLOK OR MU FIELDLOK RESTRAINT. BUTTRESSING MAY BE REQUIRED IN ADDITION TO THE FIELD LOK RESTRAINT.

CONTRACTOR SHALL NOTIFY [WATENGCON@MILWAUKEE.GOV](mailto:WATENGCON@MILWAUKEE.GOV) IF FIELD LOK RESTRAINT WILL BE USED PRIOR TO THE REQUIRED EROSION CONTROL SUBMITTAL. ADDITIONAL REQUIREMENTS FOR USE OF FIELD LOK RESTRAINT IS DETAILED IN THE "MILWAUKEE WATER WORKS SPECIAL PROVISIONS FOR WATER MAIN CONSTRUCTION".

WATER SERVICE NOTE

ALL WATER SERVICE WORK SHALL BE IN COMPLIANCE WITH THE MILWAUKEE WATER WORKS RULES AND REGULATIONS GOVERNING WATER SERVICE AND WATER SERVICE PIPING SPECIFICATIONS, 2002.

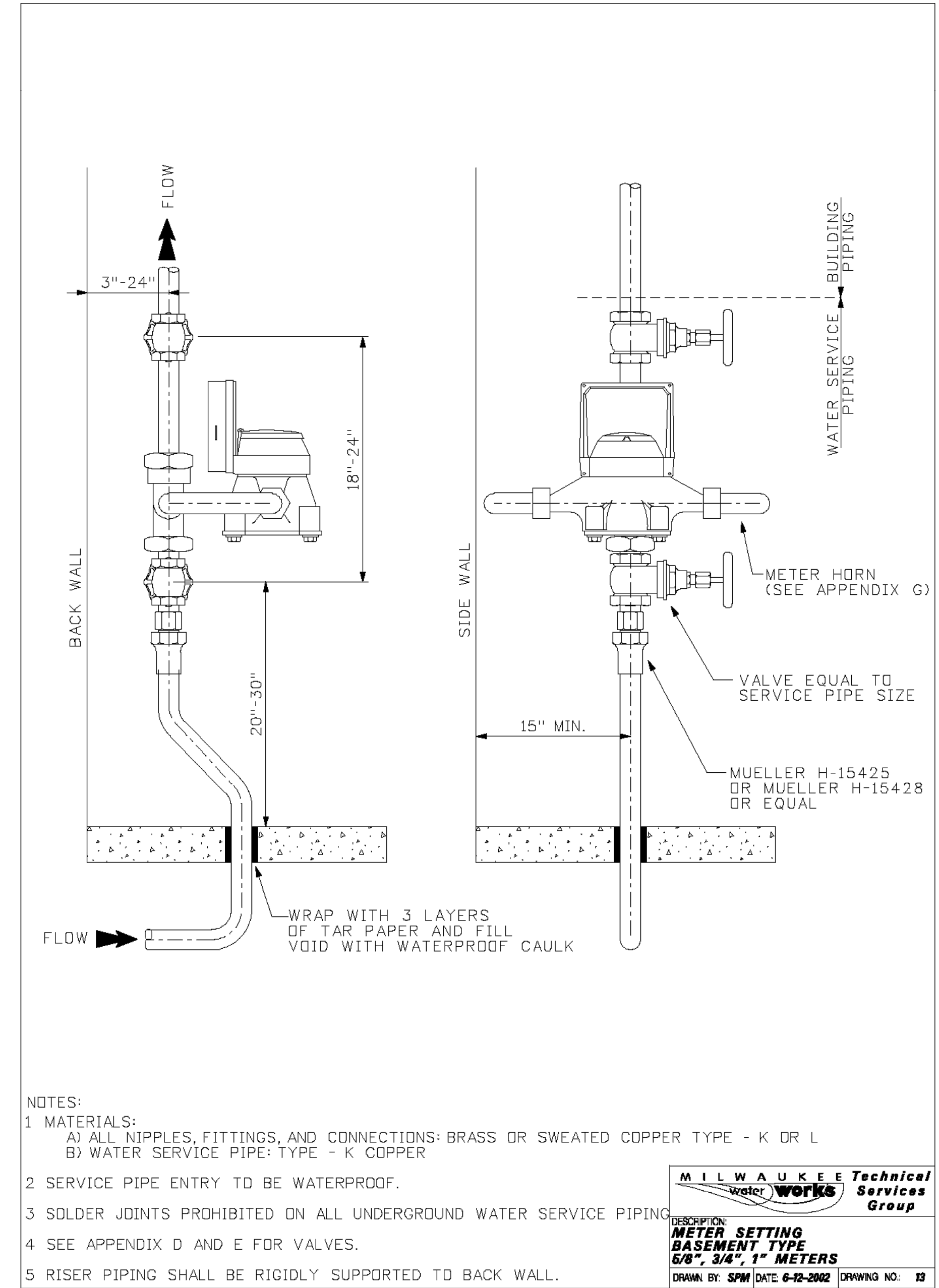
PERMIT INFORMATION AND APPLICABLE SPECIFICATIONS MAY BE FOUND AT [HTTP://CITY.MILWAUKEE.GOV/WATER/PERMITSSPECS](http://CITY.MILWAUKEE.GOV/WATER/PERMITSSPECS)

A SEPARATE WATER SERVICE PERMIT MUST BE ISSUED FOR EACH SERVICE TO BE INSTALLED ON THIS CONTRACT. THE CONTRACTOR IS REQUIRED TO CONTACT THE MILWAUKEE DEVELOPMENT CENTER PERMIT SECTION, AT 286-8208, FOR ISSUANCE OF THESE PERMITS. THERE WILL BE A CANCELLATION FEE IF ANY SERVICE ON THIS CONTRACT IS CANCELLED.

THERE WILL BE PERMIT FEES FOR EACH SERVICE TAP (1" MINIMUM; ON NEW AND EXISTING WATER MAINS) AND EACH BRANCH (3" OR LARGER; ON NEW AND EXISTING WATER MAINS) INSTALLED. THE SERVICE TAPS SHALL BE MADE BY THE CONTRACTOR.

PERMITS FOR WATER SERVICES SHALL BE OBTAINED BEFORE THE MAIN IS TAPPED. WATER SERVICE SIZE AND LOCATION SHALL BE ESTABLISHED AT THE TIME OF THE PERMIT APPLICATION. CURB STOPS SHALL BE INSTALLED THREE (3) INCHES INSIDE THE RIGHT OF WAY OR EASEMENT LINE. WATER SERVICE SHALL BE INSTALLED WITHIN THE EXTENDED BUILDING LINES.

WATER SERVICE SIZE MAY NOT BE ADEQUATE IF FIRE PROTECTION IS REQUIRED. THE WATER METER MUST BE LOCATED NEAR THE FRONT WALL OF THE BUILDING. THE SERVICE MUST RUN PERPENDICULAR TO THE WATER MAIN AND MUST REMAIN STRAIGHT TO THE METER IN THE BUILDING.



NOTES:  
1 MATERIALS:  
A) ALL NIPPLES, FITTINGS, AND CONNECTIONS: BRASS OR SWEATED COPPER TYPE - K OR L  
B) WATER SERVICE PIPE: TYPE - K COPPER

2 SERVICE PIPE ENTRY TO BE WATERPROOF.

3 SOLDER JOINTS PROHIBITED ON ALL UNDERGROUND WATER SERVICE PIPING.

4 SEE APPENDIX D AND E FOR VALVES.

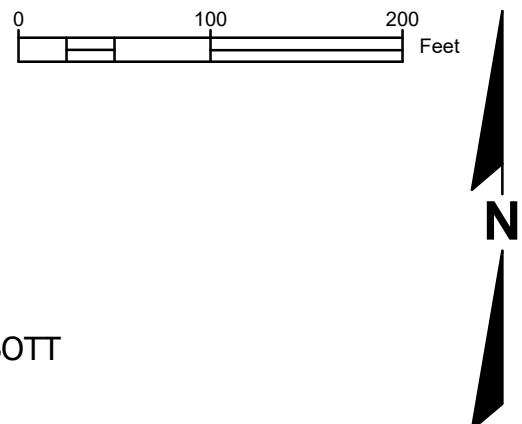
5 RISER PIPING SHALL BE RIGIDLY SUPPORTED TO BACK WALL.

MILWAUKEE Technical Services Group

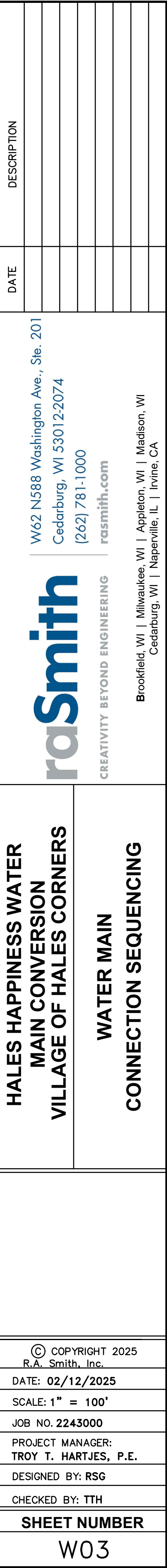
DESCRIPTION: METER SETTING BASEMENT TYPE 5/8", 3/4", 1" METERS

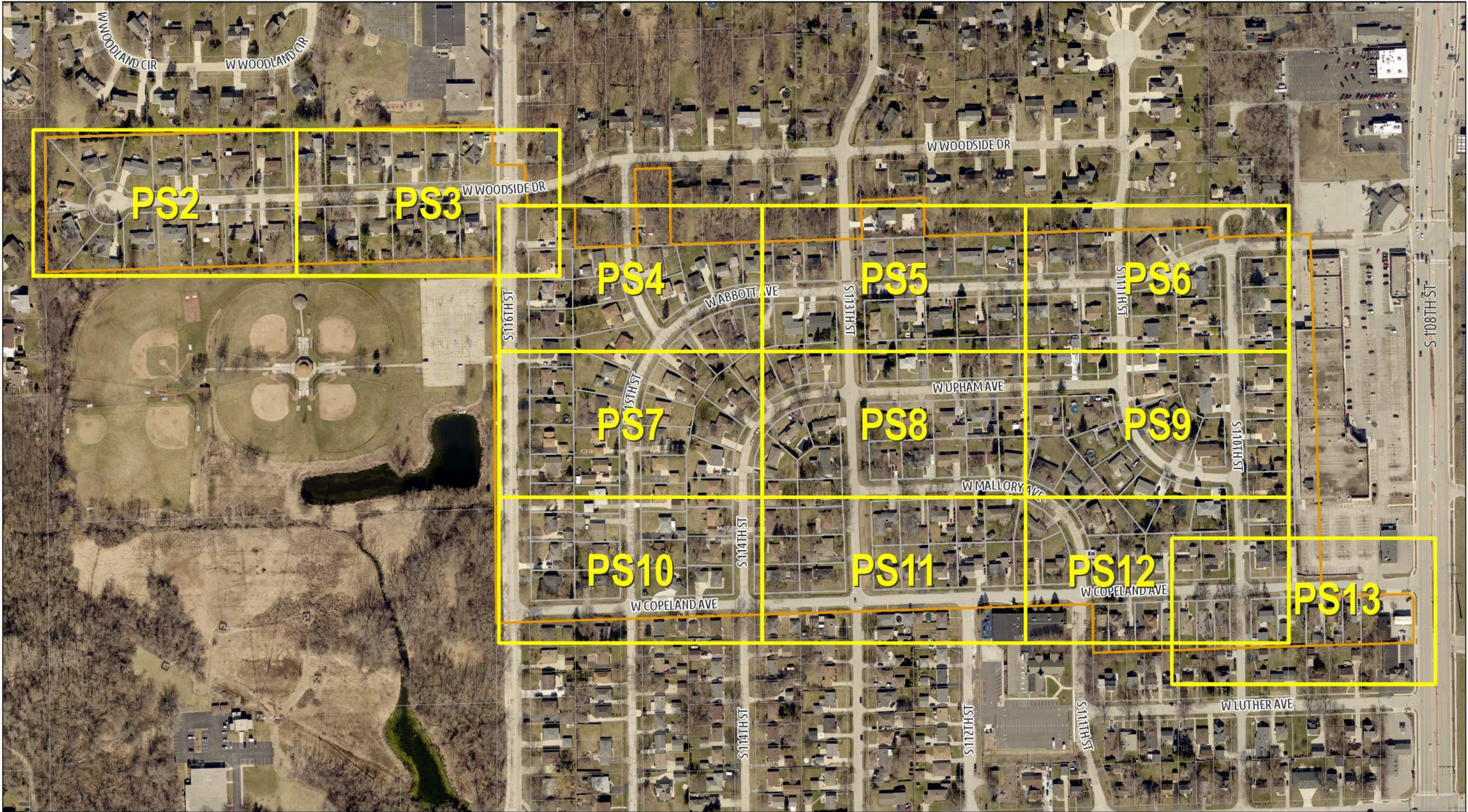
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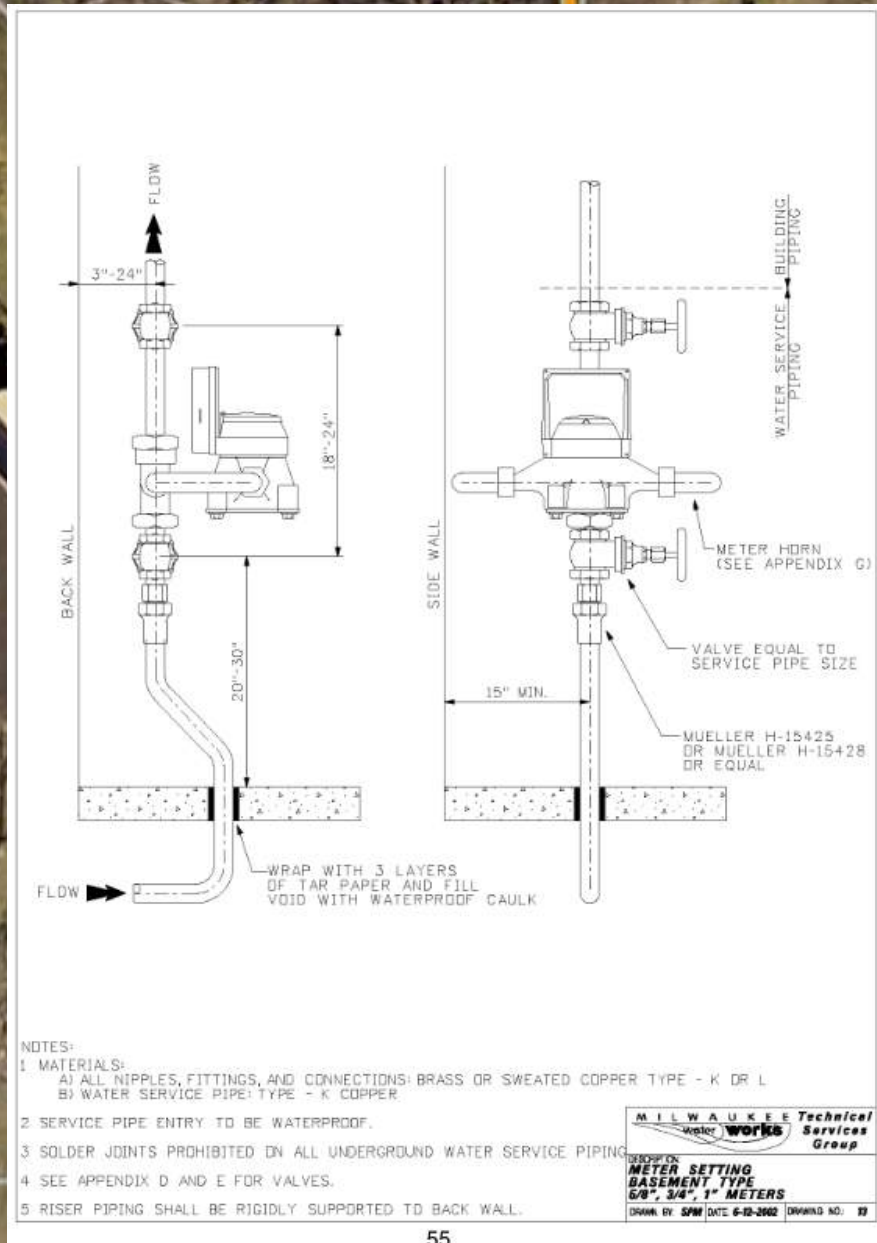
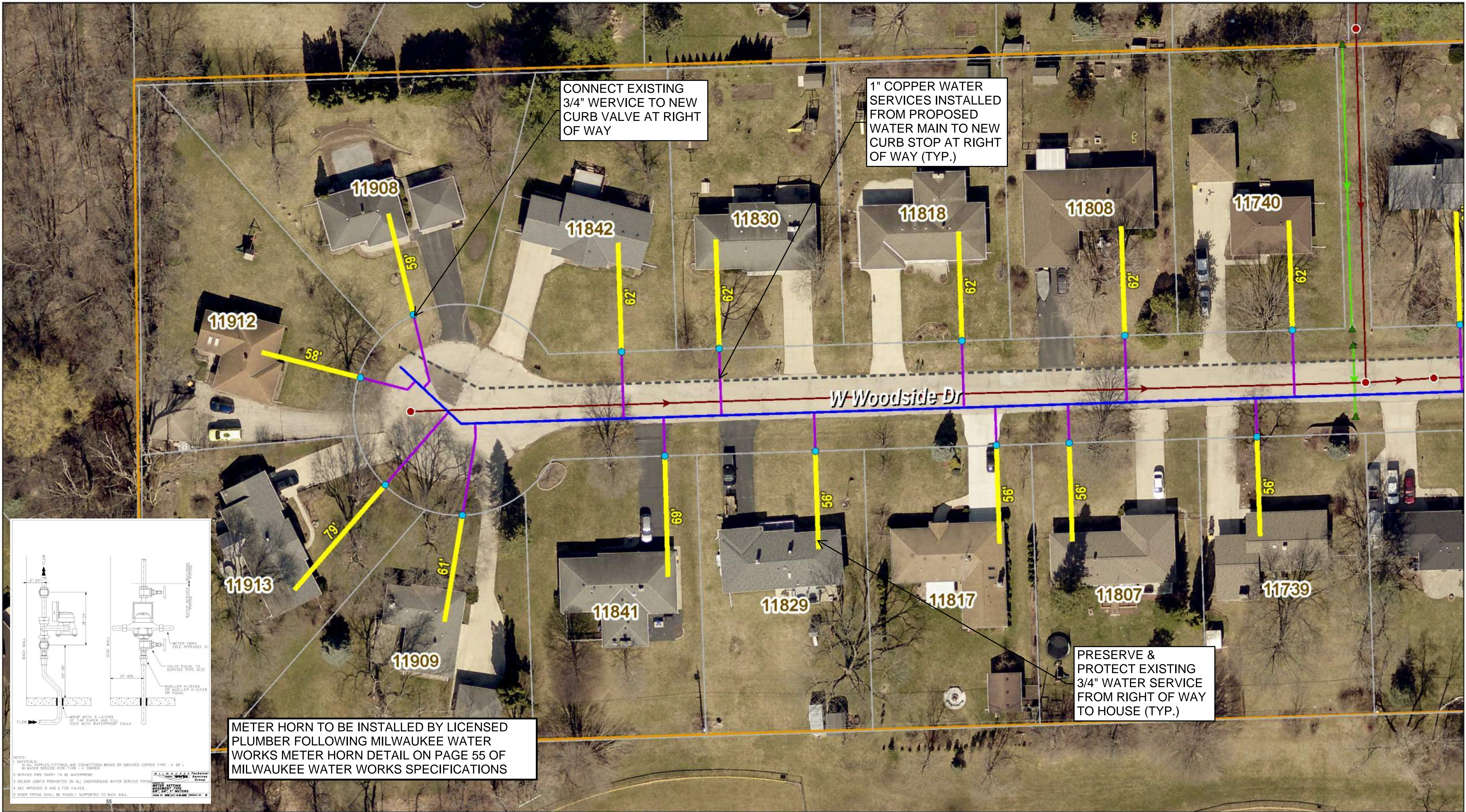
| HALES HAPPINESS WATER<br>MAIN CONVERSION<br>VILLAGE OF HALES CORNERS |      | <div><div>CREATIVITY BEYOND ENGINEERING</div></div> <div>W62 N588 Washington Ave., Ste. 201<br/>Cedarburg, WI 53012-2074<br/>(262) 781-1000<br/><a href="http://rasmith.com">rasmith.com</a></div> <div>Brookfield, WI   Milwaukee, WI   Appleton, WI   Madison, WI<br/>Cedarburg, WI   Naperville, IL   Irvine, CA</div> |  | <table><tr><th>DESCRIPTION</th><th>DATE</th></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></table> |  | DESCRIPTION | DATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| WATER MAIN<br>SPECIFICATIONS                                         |      |                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                |  |             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                                                                      |      |                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                |  |             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                      |      |                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                                                                                                                                                                                                                                |  |             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



- \* EXISTING WELLS TO BE ABANDONED PER DNR REQUIREMENTS AS PART OF SEPARATE CONTRACT

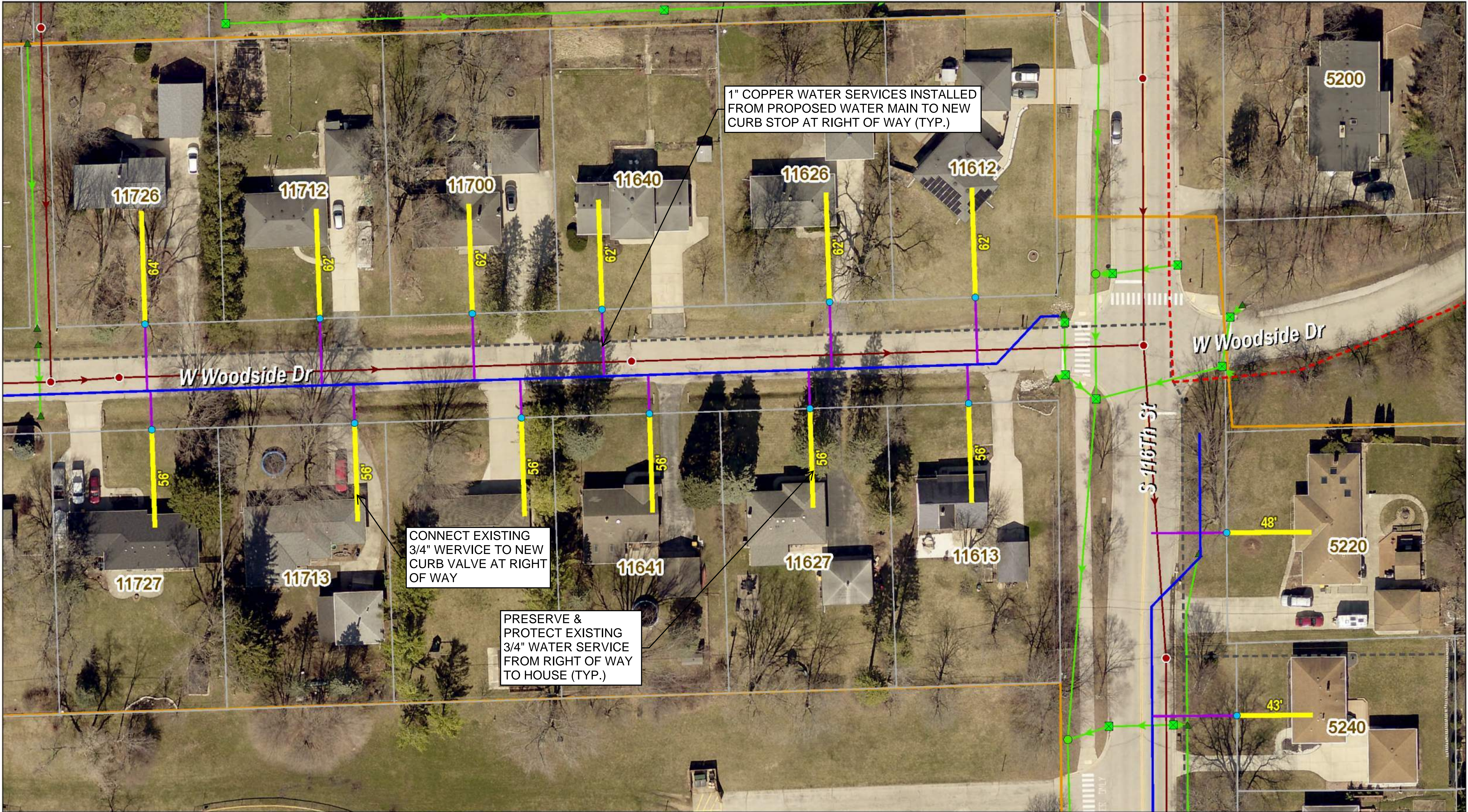






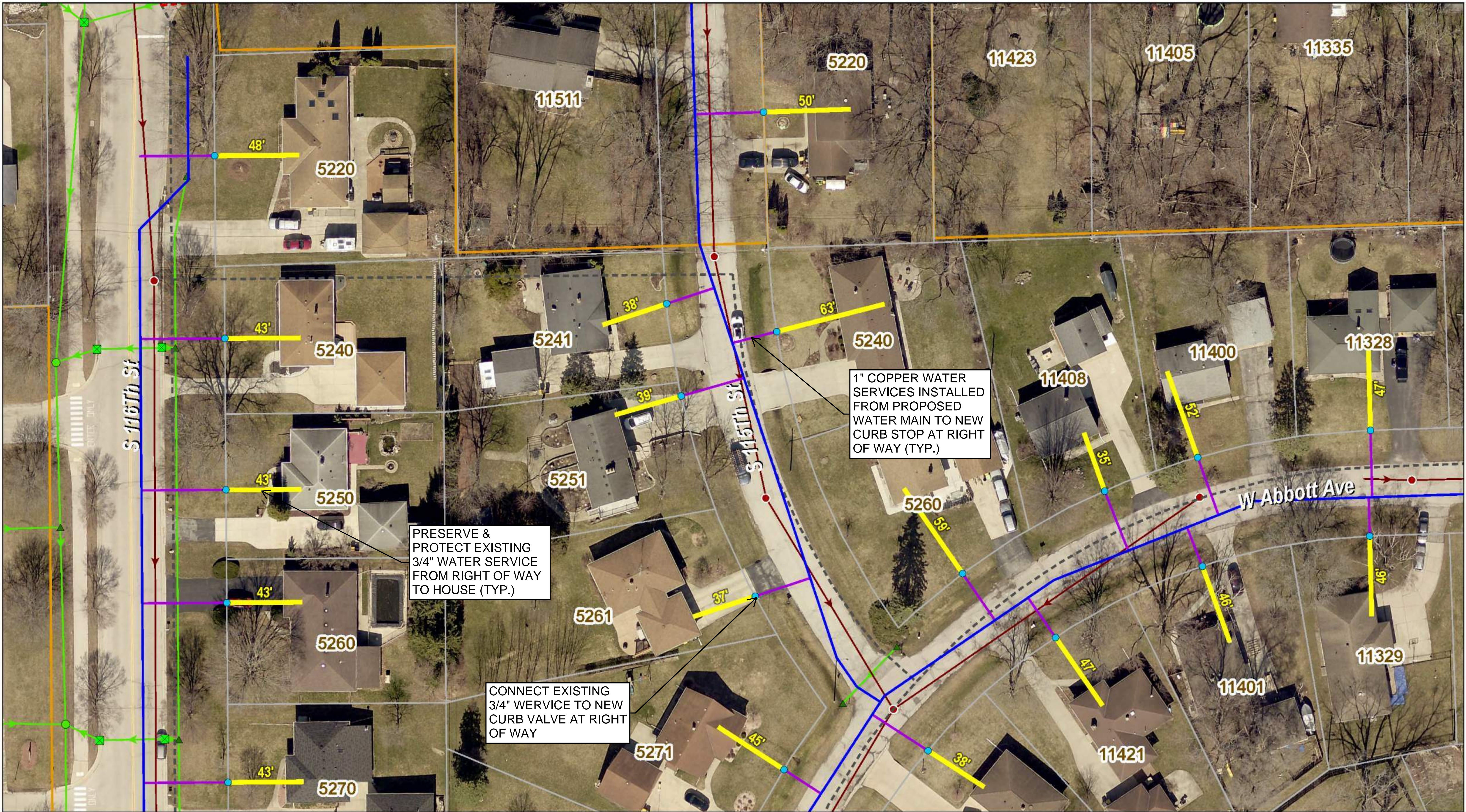
METER HORN TO BE INSTALLED BY LICENSED PLUMBER FOLLOWING MILWAUKEE WATER WORKS METER HORN DETAIL ON PAGE 55 OF MILWAUKEE WATER WORKS SPECIFICATIONS

|  |                                                                                                                  |            |                                                                                         |                                            |                       |
|--|------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------|--------------------------------------------|-----------------------|
|  | <b>Hales Happiness Water Trust Conversion Project</b><br>Village of Hales Corners<br>Milwaukee County, Wisconsin | <b>PS2</b> | New Curb Stop Valve & Connect to Ex. 3/4" Service                                       | Proposed Water Main                        | Sanitary Manhole      |
|  |                                                                                                                  |            | Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner) | Existing Water Main (Approximate Location) | Sanitary Main         |
|  |                                                                                                                  |            | New 1" Public Water Service Line (To be placed as part of project)                      | Storm Pipe                                 | Other Storm Structure |
|  |                                                                                                                  |            |                                                                                         |                                            |                       |
|  |                                                                                                                  |            |                                                                                         |                                            |                       |
|  |                                                                                                                  |            |                                                                                         |                                            |                       |
|  |                                                                                                                  |            | 2243000<br>February 14, 2025                                                            |                                            |                       |



|  |                                                                                                                        |            |                                                                                         |                                                |                         |
|--|------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------|------------------------------------------------|-------------------------|
|  | <b>Hales Happiness Water Trust<br/>Conversion Project<br/>Village of Hales Corners<br/>Milwaukee County, Wisconsin</b> | <b>PS3</b> | New Curb Stop Valve & Connect to Ex. 3/4" Service                                       | Proposed Water Main                            | Sanitary Manhole        |
|  |                                                                                                                        |            | Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner) | Existing Water Main (Approximate Location)     | Sanitary Main           |
|  |                                                                                                                        |            | New 1" Public Water Service Line (To be placed as part of project)                      | MWW Existing Water Main (Approximate Location) | Storm Manhole           |
|  |                                                                                                                        |            |                                                                                         |                                                | Storm Catch Basin/Inlet |
|  |                                                                                                                        |            |                                                                                         |                                                | Other Storm Structure   |
|  |                                                                                                                        |            |                                                                                         |                                                | Storm Pipe              |

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2243000  
February 14, 2025



VILLAGE OF  
HALES CORNERS  
W I S C O N S I N

**Hales Happiness Water Trust  
Conversion Project  
Village of Hales Corners  
Milwaukee County, Wisconsin**

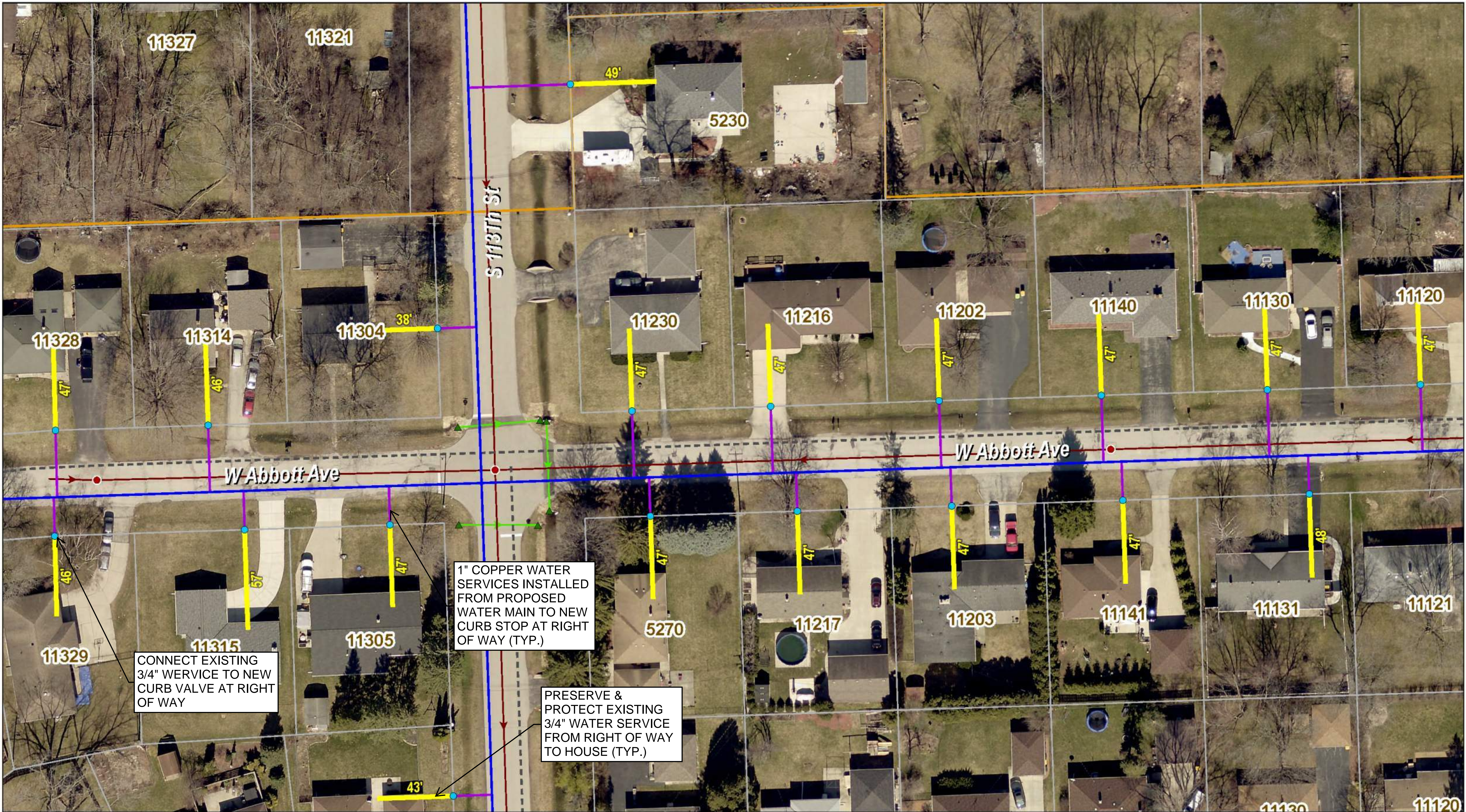
**PS4**

- |                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                           |                                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>● New Curb Stop Valve &amp; Connect to Ex. 3/4" Service</li><li>— Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner)</li><li>— New 1" Public Water Service Line (To be placed as part of project)</li></ul> | <ul style="list-style-type: none"><li>— Proposed Water Main</li><li>--- Existing Water Main (Approximate Location)</li><li>- - - MWW Existing Water Main (Approximate Location)</li></ul> | <ul style="list-style-type: none"><li>● Sanitary Manhole</li><li>→ Sanitary Main</li><li>● Storm Manhole</li><li>■ Storm Catch Basin/Inlet</li><li>▲ Other Storm Structure</li><li>→ Storm Pipe</li></ul> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

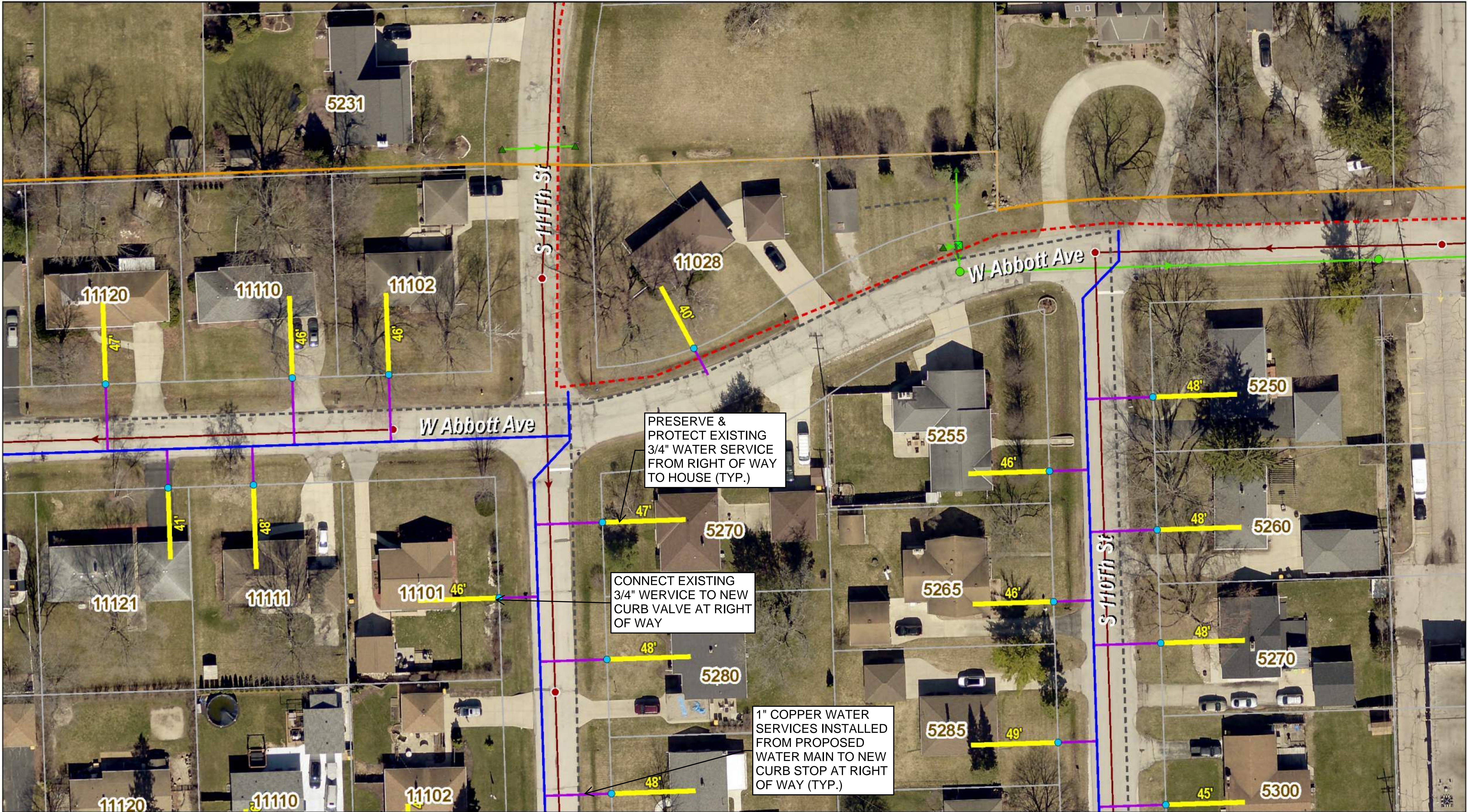
0 25 50  
1-inch equals 50-feet

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2243000  
February 14, 2025



|  |                                                                                                                        |            |                                                                                                                                                 |                                            |                  |
|--|------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------|
|  | <b>Hales Happiness Water Trust<br/>Conversion Project<br/>Village of Hales Corners<br/>Milwaukee County, Wisconsin</b> | <b>PS5</b> | New Curb Stop Valve & Connect to Ex. 3/4" Service                                                                                               | Proposed Water Main                        | Sanitary Manhole |
|  |                                                                                                                        |            | Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner)                                                         | Existing Water Main (Approximate Location) | Sanitary Main    |
|  |                                                                                                                        |            | New 1" Public Water Service Line (To be placed as part of project)                                                                              | Other Storm Structure                      | Storm Pipe       |
|  |                                                                                                                        |            | <div>0 25 50<br/>1-inch equals 50-feet</div> <div><br/><b>raSmith</b><br/>CREATIVITY BEYOND ENGINEERING<br/>2243000<br/>February 14, 2025</div> |                                            |                  |



VILLAGE OF  
HALES CORNERS  
W I S C O N S I N

**Hales Happiness Water Trust  
Conversion Project**  
Village of Hales Corners  
Milwaukee County, Wisconsin

**PS6**

- New Curb Stop Valve & Connect to Ex. 3/4" Service
- Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner)
- New 1" Public Water Service Line (To be placed as part of project)

- Proposed Water Main
- Existing Water Main (Approximate Location)
- MWW Existing Water Main (Approximate Location)

- Sanitary Manhole
- Sanitary Main
- Storm Manhole
- Storm Catch Basin/Inlet
- Other Storm Structure
- Storm Pipe

0 25 50

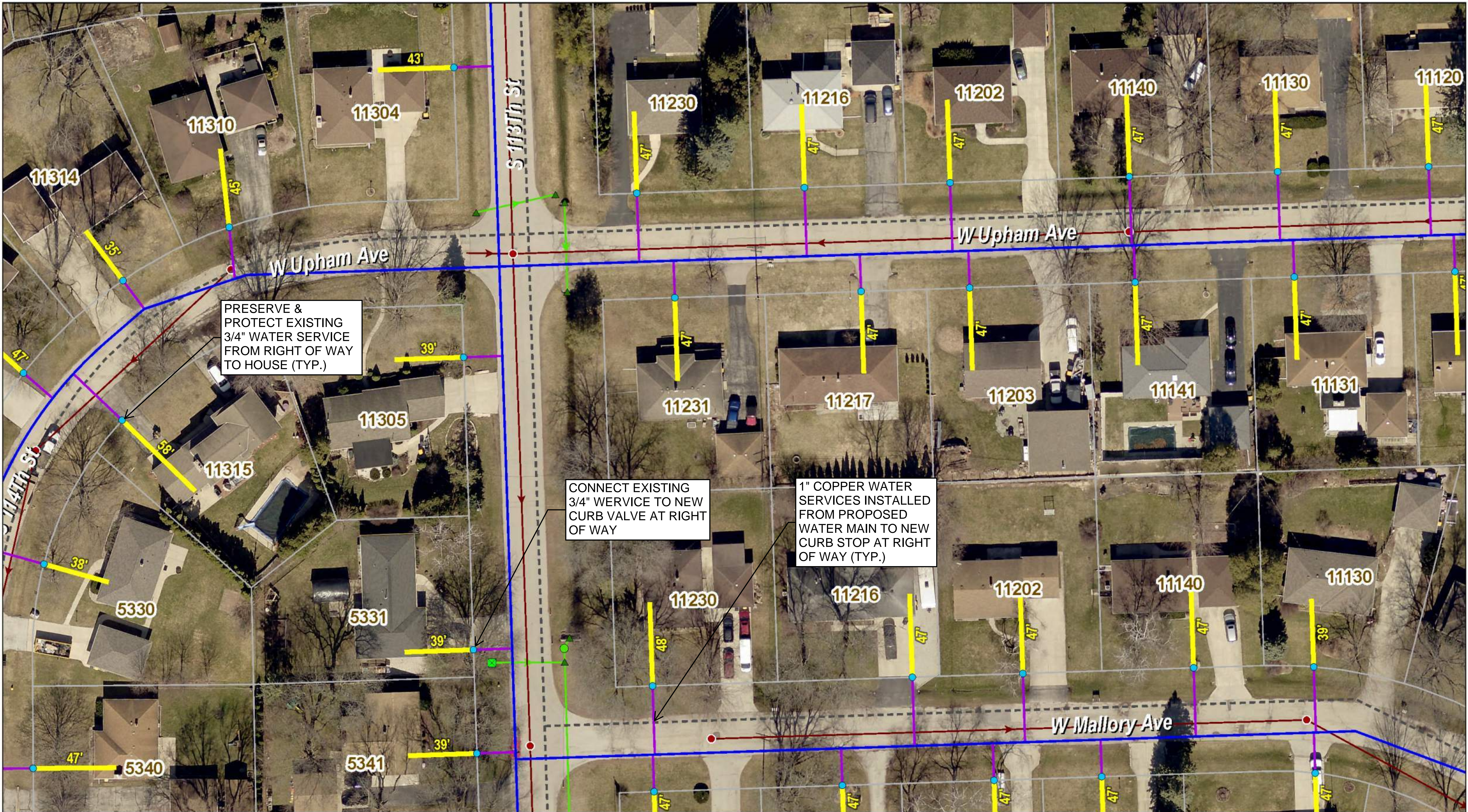
1-inch equals 50-feet

**raSmith**

CREATIVITY BEYOND ENGINEERING

2243000  
February 14, 2025





VILLAGE OF  
HALES CORNERS  
WISCONSIN

**Hales Happiness Water Trust  
Conversion Project  
Village of Hales Corners  
Milwaukee County, Wisconsin**

**PS8**

- New Curb Stop Valve & Connect to Ex. 3/4" Service
- Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner)
- New 1" Public Water Service Line (To be placed as part of project)

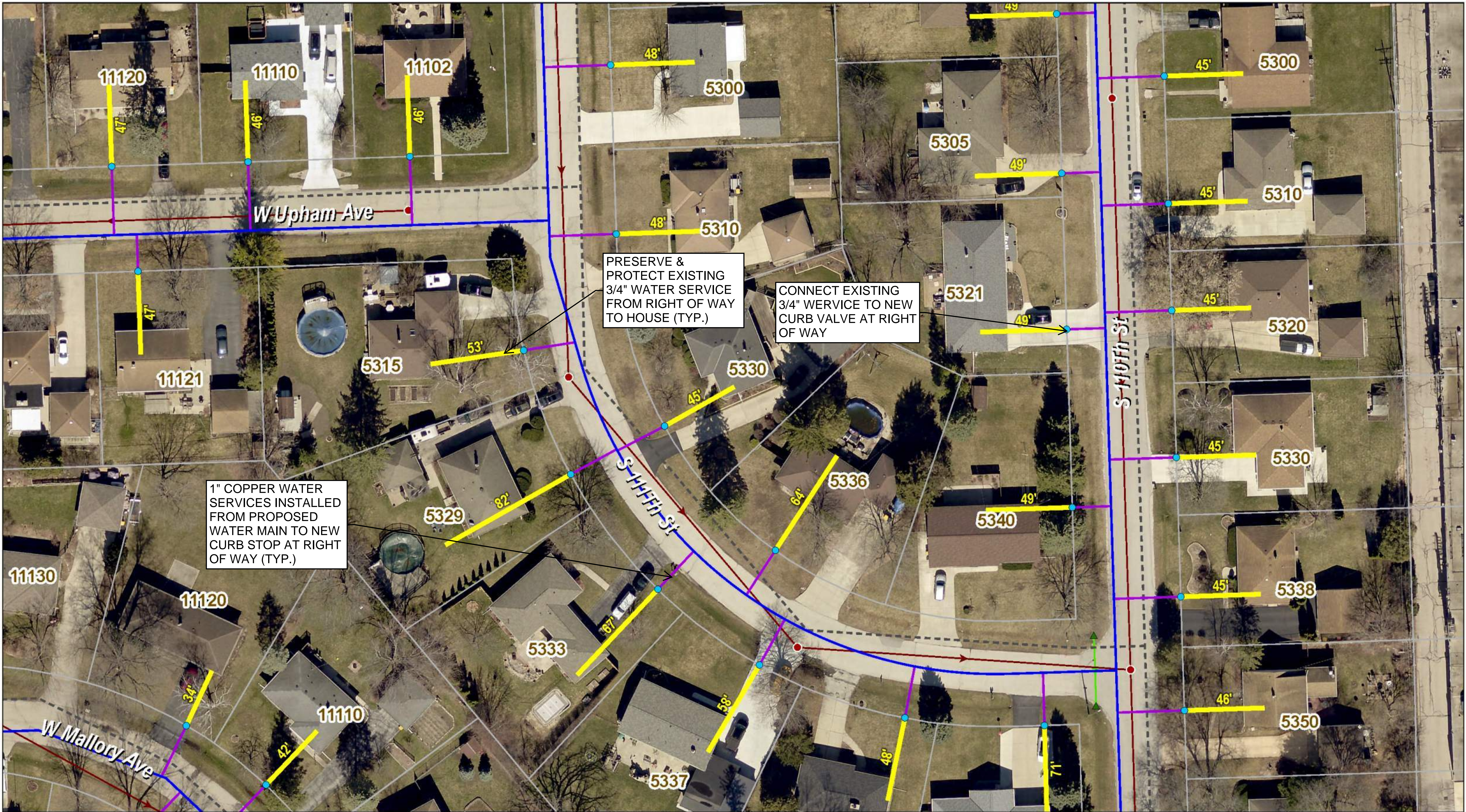
- Proposed Water Main
- - - Existing Water Main (Approximate Location)








- Sanitary Manhole
- Sanitary Main
- Storm Manhole
- Storm Catch Basin/Inlet
- ▲ Other Storm Structure
- Storm Pipe


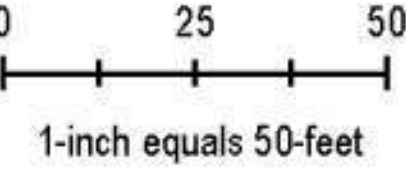
0 25 50  
1-inch equals 50-feet

**raSmith**  
CREATIVITY BEYOND ENGINEERING

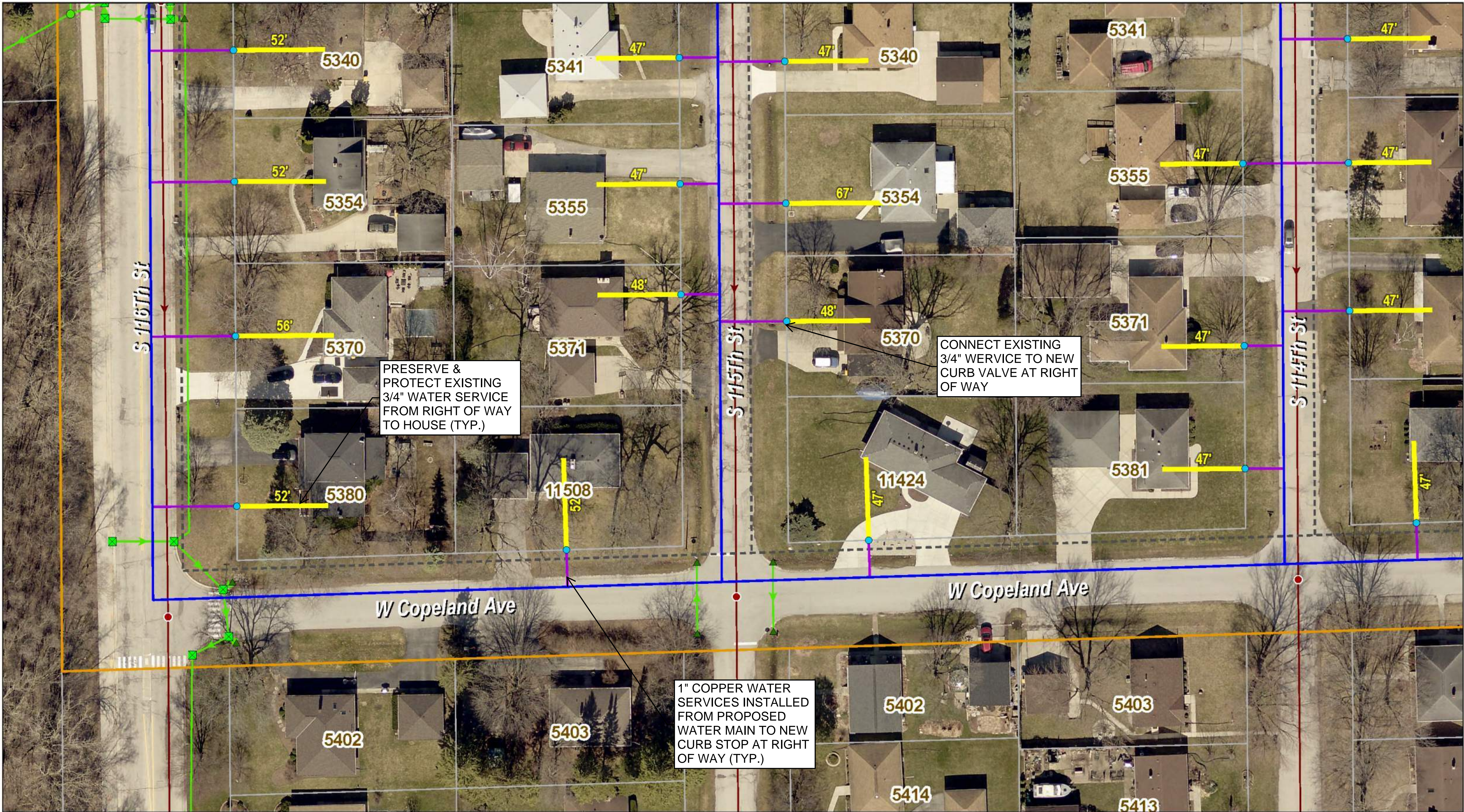
2243000  
February 14, 2025



|                                                                                     |                                                                                                                      |            |                                                                                                                                                                               |                                                                                                                                  |                                                                                                        |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  | <b>Hales Happiness Water Trust<br/>Conversion Project</b><br>Village of Hales Corners<br>Milwaukee County, Wisconsin | <b>PS9</b> |  New Curb Stop Valve & Connect to Ex. 3/4" Service                                       |  Proposed Water Main                        |  Sanitary Manhole |
|                                                                                     |                                                                                                                      |            |  Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner) |  Existing Water Main (Approximate Location) |  Sanitary Main    |
|                                                                                     |                                                                                                                      |            |  New 1" Public Water Service Line (To be placed as part of project)                      |  Other Storm Structure                      |  Storm Pipe       |



2243000  
February 14, 2025



PRESERVE &  
PROTECT EXISTING  
3/4" WATER SERVICE  
FROM RIGHT OF WAY  
TO HOUSE (TYP.)

CONNECT EXISTING  
3/4" WERVICE TO NEW  
CURB VALVE AT RIGHT  
OF WAY

1" COPPER WATER  
SERVICES INSTALLED  
FROM PROPOSED  
WATER MAIN TO NEW  
CURB STOP AT RIGHT  
OF WAY (TYP.)

VILLAGE OF  
HALES CORNERS  
W I S C O N S I N

Hales Happiness Water Trust  
Conversion Project  
Village of Hales Corners  
Milwaukee County, Wisconsin

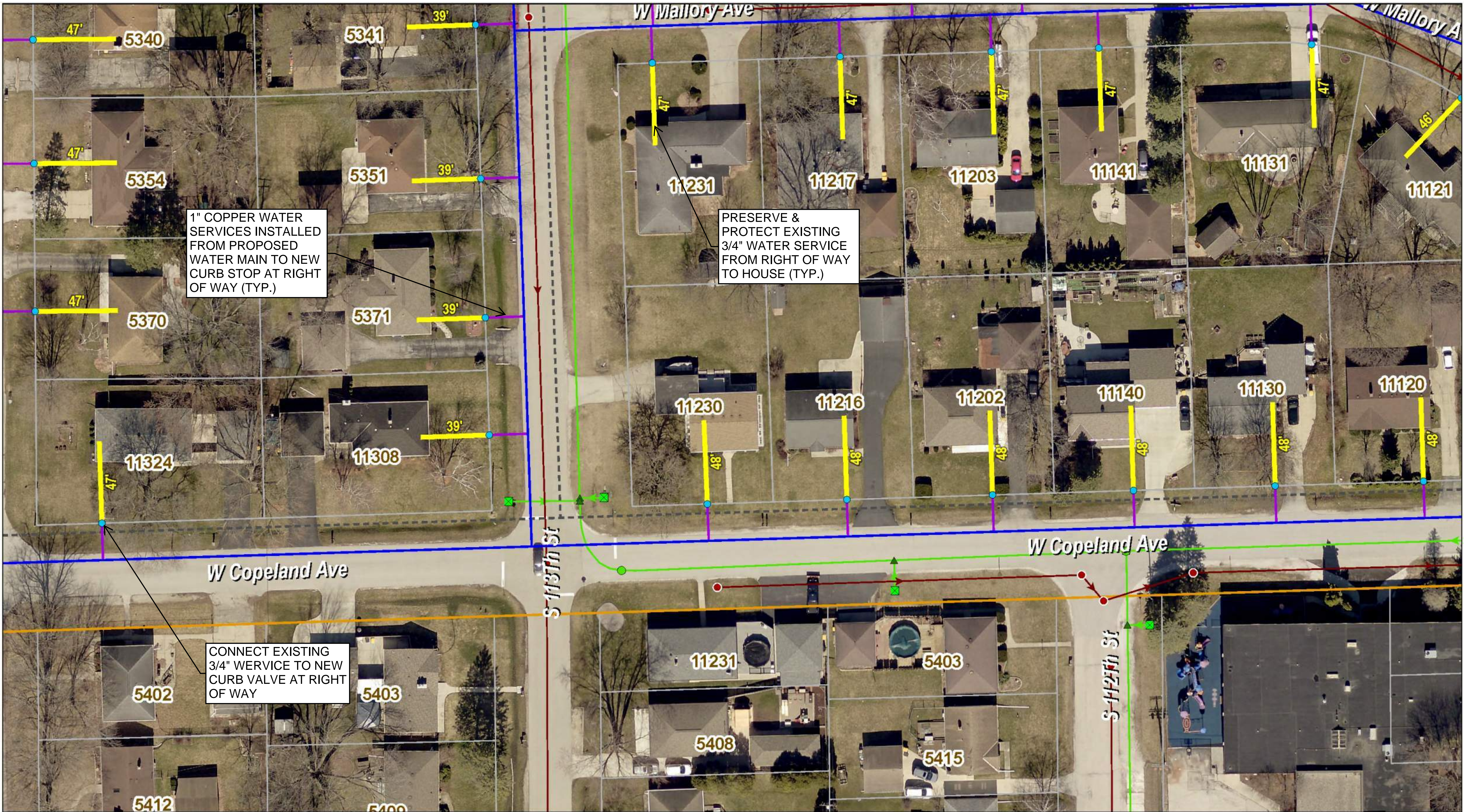
PS10

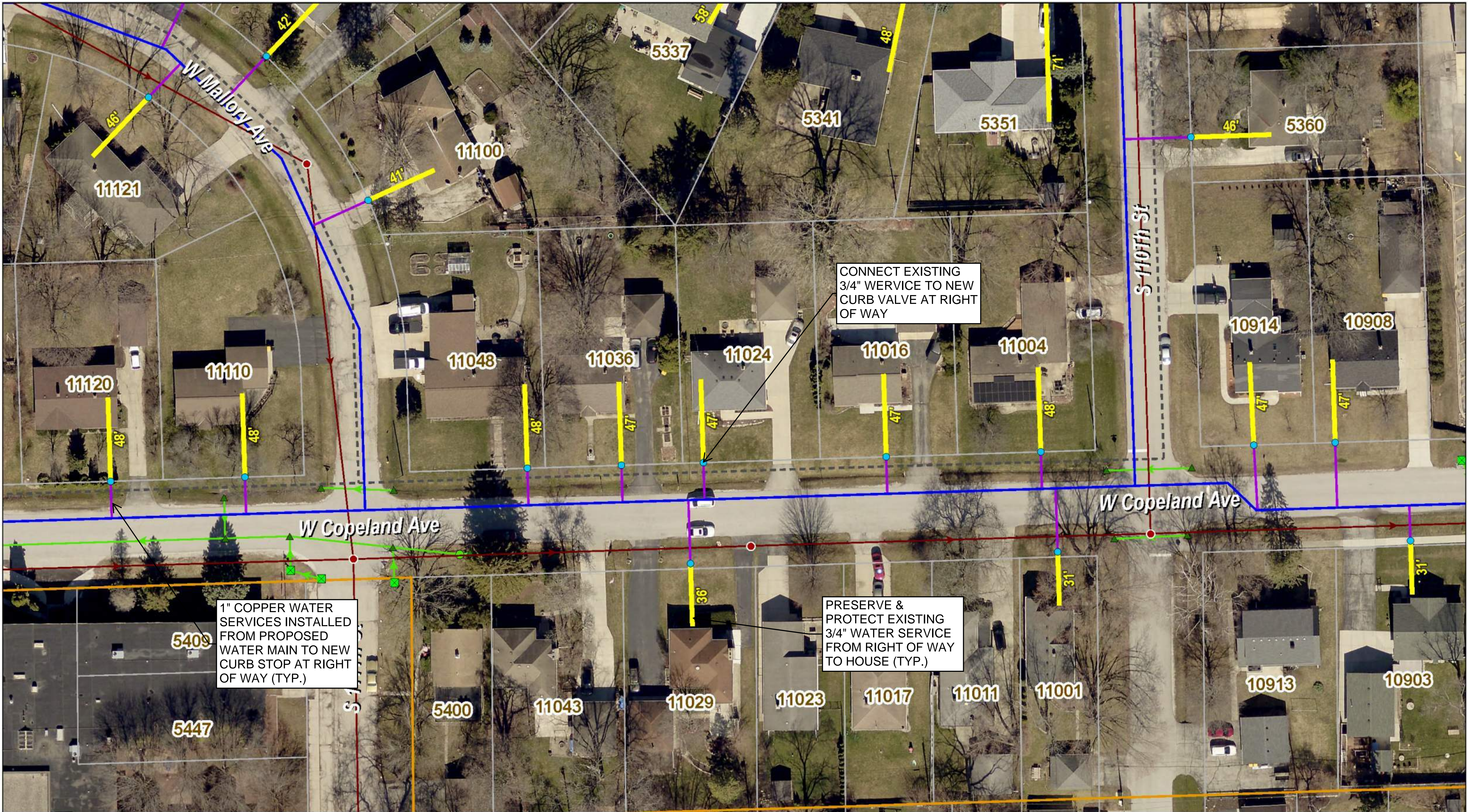
- New Curb Stop Valve & Connect to Ex. 3/4" Service
- Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner)
- New 1" Public Water Service Line (To be placed as part of project)
- Proposed Water Main
- Existing Water Main (Approximate Location)
- Sanitary Manhole
- Sanitary Main
- Storm Manhole
- Storm Catch Basin/Inlet
- ▲ Other Storm Structure
- Storm Pipe

0 25 50  
1-inch equals 50-feet

**raSmith**  
CREATIVITY BEYOND ENGINEERING

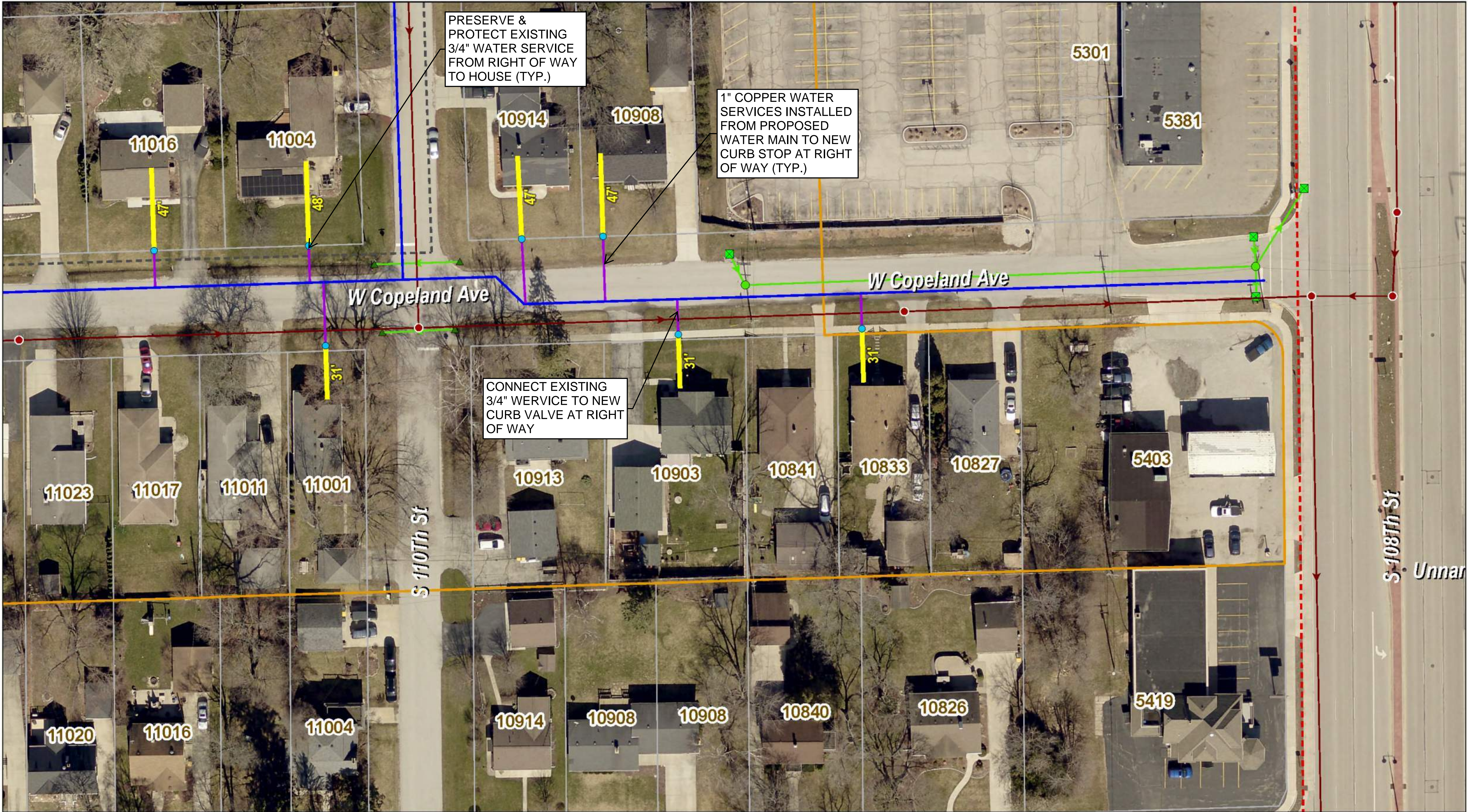
2243000  
February 14, 2025

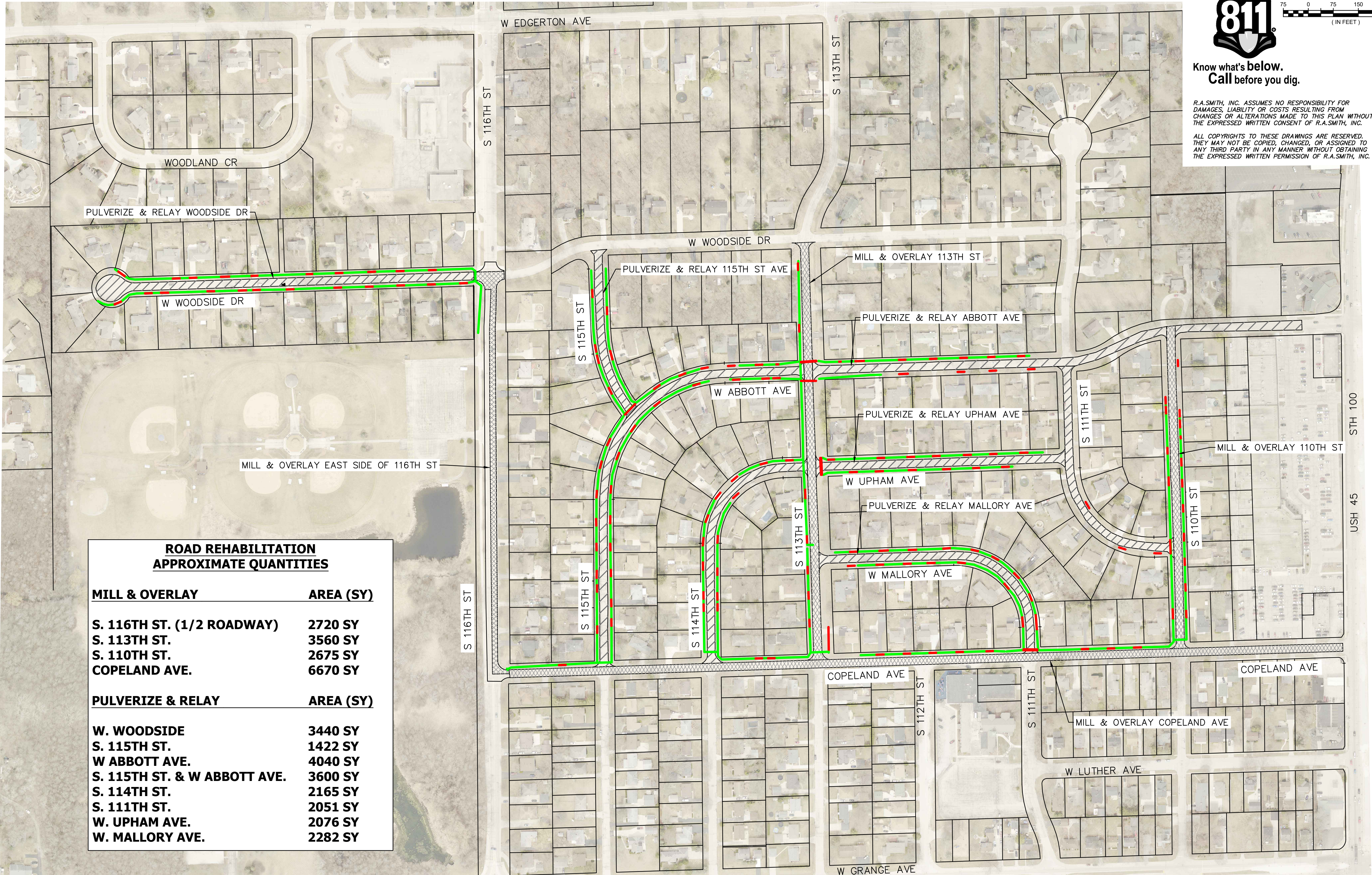




|  |                                                                                                                        |             |                                                                                         |                                            |                         |
|--|------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------|--------------------------------------------|-------------------------|
|  | <b>Hales Happiness Water Trust<br/>Conversion Project<br/>Village of Hales Corners<br/>Milwaukee County, Wisconsin</b> | <b>PS12</b> | New Curb Stop Valve & Connect to Ex. 3/4" Service                                       | Proposed Water Main                        | Sanitary Manhole        |
|  |                                                                                                                        |             | Ex. 3/4" Private Water Service Line (Only to be replaced if directed by property owner) | Existing Water Main (Approximate Location) | Sanitary Main           |
|  |                                                                                                                        |             | New 1" Public Water Service Line (To be placed as part of project)                      |                                            | Storm Manhole           |
|  |                                                                                                                        |             |                                                                                         |                                            | Storm Catch Basin/Inlet |
|  |                                                                                                                        |             |                                                                                         |                                            | Other Storm Structure   |
|  |                                                                                                                        |             |                                                                                         |                                            | Storm Pipe              |

1-inch equals 50-feet  
  
**raSmith**  
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2243000  
February 14, 2025





| ROAD REHABILITATION<br>APPROXIMATE QUANTITIES |           |
|-----------------------------------------------|-----------|
| MILL & OVERLAY                                | AREA (SY) |
| S. 116TH ST. (1/2 ROADWAY)                    | 2720 SY   |
| S. 113TH ST.                                  | 3560 SY   |
| S. 110TH ST.                                  | 2675 SY   |
| COPELAND AVE.                                 | 6670 SY   |
| PULVERIZE & RELAY                             | AREA (SY) |
| W. WOODSIDE                                   | 3440 SY   |
| S. 115TH ST.                                  | 1422 SY   |
| W ABBOTT AVE.                                 | 4040 SY   |
| S. 115TH ST. & W ABBOTT AVE.                  | 3600 SY   |
| S. 114TH ST.                                  | 2165 SY   |
| S. 111TH ST.                                  | 2051 SY   |
| W. UPHAM AVE.                                 | 2076 SY   |
| W. MALLORY AVE.                               | 2282 SY   |

**LEGEND:**  
MILL & OVERLAY  
PULVERIZE & RELAY (PAVING PROGRAM LIMITS)  
LOW FLOW PIPING  
CULVERTS

XXXXXX  
XXXXXX  
XXXXXX

# HALES HAPPINESS ROAD CONSTRUCTION OVERVIEW

| DESCRIPTION                                                                                                                                                                                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DATE                                                                                                                                                                                                       |  |
| W62 N588 Washington Ave., Ste. 201<br>Cedarburg, WI 53012-2074<br>(262) 781-1000<br>rasmith.com                                                                                                            |  |
| raSmith<br>CREATIVITY BEYOND ENGINEERING                                                                                                                                                                   |  |
| Brookfield, WI   Milwaukee, WI   Appleton, WI   Madison, WI<br>Cedarburg, WI   Naperville, IL   Irvine, CA                                                                                                 |  |
| HALES HAPPINESS WATER<br>MAIN CONVERSION<br>VILLAGE OF HALES CORNERS                                                                                                                                       |  |
| ROADWAY OVERVIEW                                                                                                                                                                                           |  |
| © COPYRIGHT 2025<br>R.A. Smith, Inc.<br>DATE: 02/12/2025<br>SCALE: 1" = 150'<br>JOB NO. 2243000<br>PROJECT MANAGER:<br>TROY T. HARTJES, P.E.<br>DESIGNED BY: RSG<br>CHECKED BY: TTH<br>SHEET NUMBER<br>R00 |  |