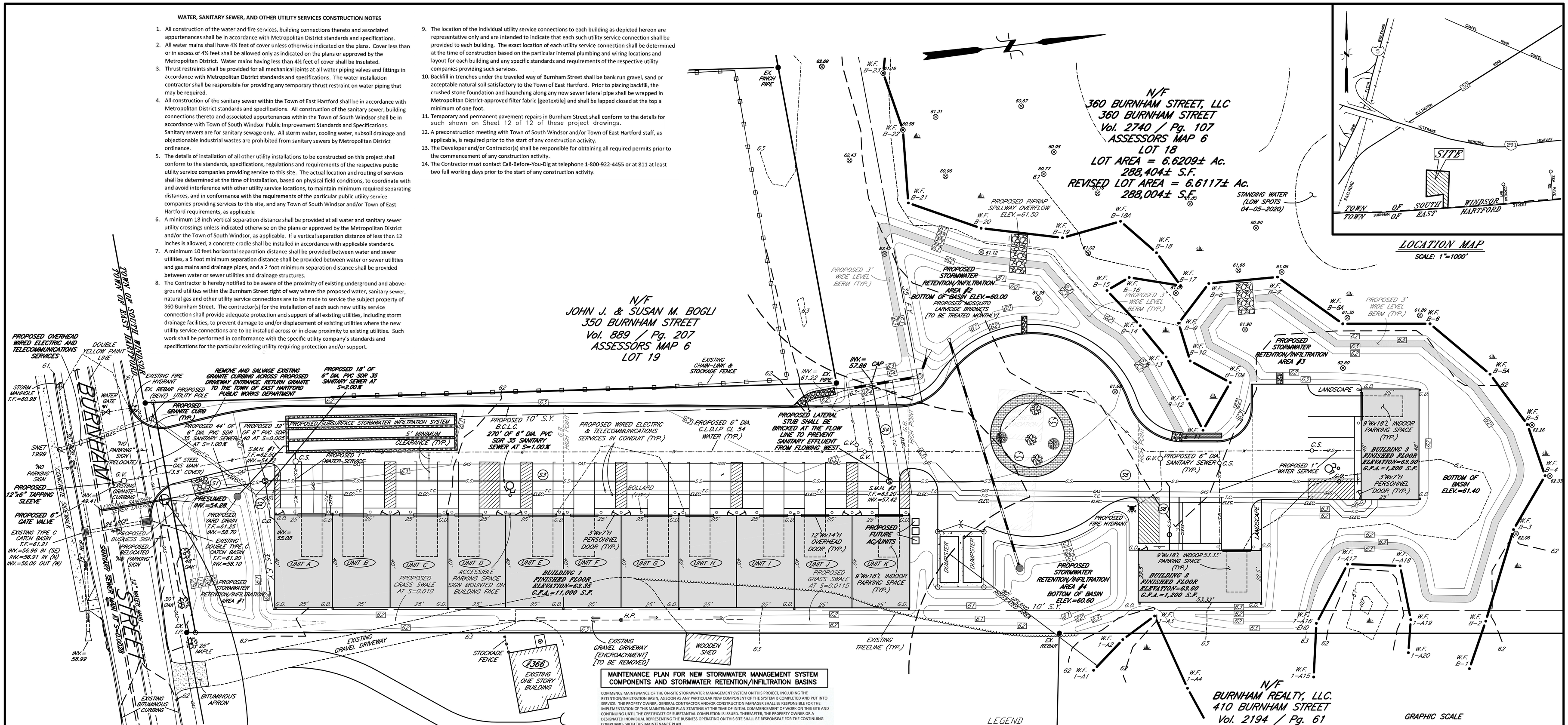
WATER, SANITARY SEWER, AND OTHER UTILITY SERVICES CONSTRUCTION NOTES

1. All construction of the water and fire services, building connections thereto and associated appurtenances shall be in accordance with Metropolitan District standards and specifications.
2. All water mains shall have 4½ feet of cover unless otherwise indicated on the plans. Cover less than or in excess of 4½ feet shall be allowed only as indicated on the plans or approved by the Metropolitan District. Water mains having less than 4½ feet of cover shall be insulated.
3. Thrust restraints shall be provided for all mechanical joints at all water piping valves and fittings in accordance with Metropolitan District standards and specifications. The water installation contractor shall be responsible for providing any temporary thrust restraint on water piping that may be required.
4. All construction of the sanitary sewer within the Town of East Hartford shall be in accordance with Metropolitan District standards and specifications. All construction of the sanitary sewer, building connections thereto and associated appurtenances within the Town of South Windsor shall be in accordance with Town of South Windsor Public Improvement Standards and Specifications. Sanitary sewers are for sanitary sewage only. All storm water, cooling water, subsoil drainage and objectionable industrial wastes are prohibited from sanitary sewers by Metropolitan District ordinance.
5. The details of installation of all other utility installations to be constructed on this project shall conform to the standards, specifications, regulations and requirements of the respective public utility service companies providing service to this site. The actual location and routing of services shall be determined at the time of installation, based on physical field conditions, to coordinate with and avoid interference with other utility service locations, to maintain minimum required separating distances, and in conformance with the requirements of the particular public utility service companies providing services to this site, and any Town of South Windsor and/or Town of East Hartford requirements, as applicable
6. A minimum 18 inch vertical separation distance shall be provided at all water and sanitary sewer utility crossings unless indicated otherwise on the plans or approved by the Metropolitan District and/or the Town of South Windsor, as applicable. If a vertical separation distance of less than 12 inches is allowed, a concrete cradle shall be installed in accordance with applicable standards.
7. A minimum 10 feet horizontal separation distance shall be provided between water and sewer utilities, a 5 foot minimum separation distance shall be provided between water or sewer utilities and gas mains and drainage pipes, and a 2 foot minimum separation distance shall be provided between water or sewer utilities and drainage structures.
8. The Contractor is hereby notified to be aware of the proximity of existing underground and above-ground utilities within the Burnham Street right of way where the proposed water, sanitary sewer, natural gas and other utility service connections are to be made to service the subject property of 360 Burnham Street. The contractor(s) for the installation of each such new utility service connection shall provide adequate protection and support of all existing utilities, including storm drainage facilities, to prevent damage to and/or displacement of existing utilities where the new utility service connections are to be installed across or in close proximity to existing utilities. Such work shall be performed in conformance with the specific utility company's standards and specifications for the particular existing utility requiring protection and/or support.
9. The location of the individual utility service connections to each building as depicted hereon are representative only and are intended to indicate that each such utility service connection shall be provided to each building. The exact location of each utility service connection shall be determined at the time of construction based on the particular internal plumbing and wiring locations and layout for each building and any specific standards and requirements of the respective utility companies providing such services.
10. Backfill in trenches under the traveled way of Burnham Street shall be bank run gravel, sand or acceptable natural soil satisfactory to the Town of East Hartford. Prior to placing backfill, the crushed stone foundation and haunching along any new sewer lateral pipe shall be wrapped in Metropolitan District-approved filter fabric [geotextile] and shall be lapped closed at the top a minimum of one foot.
11. Temporary and permanent pavement repairs in Burnham Street shall conform to the details for such shown on Sheet 12 of 12 of these project drawings.
12. A preconstruction meeting with Town of South Windsor and/or Town of East Hartford staff, as applicable, is required prior to the start of any construction activity.
13. The Developer and/or Contractor(s) shall be responsible for obtaining all required permits prior to the commencement of any construction activity.
14. The Contractor must contact Call-Before-You-Dig at telephone 1-800-922-4455 or at 811 at least two full working days prior to the start of any construction activity.



PRIOR TO COMMENCING THE CONSTRUCTION OF THE PROPOSED SANITARY SEWER CONNECTION, THE DEVELOPER/CONTRACTOR MUST EXCAVATE TO LOCATE THE EXACT END OF THE EXISTING SANITARY SEWER LATERAL STUB AND DETERMINE THE ACTUAL FLOW LINE ELEVATION AT THE END OF THE PIPE, BASED ON THIS LOCATION AND ELEVATION, THE ENGINEER MAY NEED TO ADJUST THE PROPOSED SANITARY SEWER SYSTEM ELEVATIONS AND/OR PIPE LOCATION(S) FROM THAT AS REPRESENTED HEREON.

LOCATION OF THE WETLANDS AS SHOWN WERE DETERMINED BY GEORGE T. LOGAN, CERTIFIED SOIL SCIENTIST, MANCHESTER, CONNECTICUT, AND WERE FIELD LOCATED BY MESSIER SURVEY LLC.

I HAVE DELINEATED THE WETLANDS ON THIS PROPERTY IN THE FIELD AND HAVE REVIEWED THE WETLANDS AS SHOWN ON THIS PLAN, AND FIND THAT THEY SUBSTANTIALLY REPRESENT THE WETLANDS AS DELINEATED IN THE FIELD.

GEORGE T. LOGAN
CERTIFIED SOIL SCIENTIST

MAINTENANCE PLAN FOR NEW STORMWATER MANAGEMENT SYSTEM COMPONENTS AND STORMWATER RETENTION/INFILTRATION BASINS

COMMENCE MAINTENANCE OF THE ON-SITE STORMWATER MANAGEMENT SYSTEM ON THIS PROJECT, INCLUDING THE RETENTION/INFILTRATION BASIN, AS SOON AS ANY PARTICULAR NEW COMPONENT OF THE SYSTEM IS COMPLETED AND PUT INTO SERVICE. THE PROPERTY OWNER, GENERAL CONTRACTOR AND/OR CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THIS MAINTENANCE PLAN STARTING AT THE TIME OF INITIAL COMMENCEMENT OF WORK ON THIS SITE AND CONTINUING UNTIL THE CERTIFICATE OF SUBSTANTIAL COMPLETION IS ISSUED. THEREAFTER, THE PROPERTY OWNER OR A DESIGNATED INDIVIDUAL REPRESENTING THE BUSINESS OPERATING ON THIS SITE SHALL BE RESPONSIBLE FOR THE CONTINUING COMPLIANCE WITH THIS MAINTENANCE PLAN.

ONCE IN SERVICE, THE OPERATION AND MAINTENANCE OF THE ON-SITE STORMWATER MANAGEMENT SYSTEM COMPONENTS, INCLUDING THE RETENTION/INFILTRATION BASIN, SHALL INCLUDE THE FOLLOWING MEASURES AND PROCEDURES, AT THE STATED FREQUENCIES.

ON-SITE DRAINAGE SYSTEM COMPONENTS

DURING THE ACTIVE CONSTRUCTION STAGE:

- MONITOR THE FUNCTIONING OF TEMPORARY SEDIMENT CONTROLS AND ANY TEMPORARY SEDIMENT TRAPS, THE DEGREEE OF SEDIMENT BUILD-UP AT SUCH MEASURES, AND THE FUNCTIONING OF ALL STORM DRAINAGE PIPES AND STRUCTURES WITHIN THE WORK AREA, A MINIMUM OF ONCE PER WEEK, AFTER EVERY STORM EVENT WITH A RAINFALL TOTAL OF ½ INCH OR GREATER, AND PERIODICALLY THROUGHOUT THE DURATION OF ANY EXTENDED RAINFALL OCCURRENCE. REMOVE SEDIMENT DEPOSITS FROM BEHIND EROSION AND SEDIMENT CONTROL CHECKS AND FROM TEMPORARY SEDIMENT TRAPS WHEN THEY EXCEED THREE (3) INCHES IN DEPTH AND/OR IF THEY INTERFERE WITH THE PROPER OPERATION OF THE STORMWATER MANAGEMENT SYSTEM COMPONENTS.
- ALL SEDIMENT REMOVED FROM SEDIMENT CONTROL MEASURES AND TEMPORARY SEDIMENT TRAPS SHALL BE INCORPORATED INTO THE ONGOING CONSTRUCTION WORK OR DISPOSED OF OFF THE SITE.

DURING THE ACTIVE CONSTRUCTION STAGE AND AFTER CONSTRUCTION:

- INSPECT CATCH BASINS, YARD DRAINS AND DRAINAGE MANHOLES AT LEAST MONTHLY TO OSSERVE AND MEASURE THE ACCUMULATION OF TRAPPED OILS, DEBRIS, SEDIMENT AND LIKE MATERIALS, AND DETERMINE THE NEED FOR REMOVAL OF SUCH MATERIALS FROM THE CATCH BASIN, YARD DRAIN OR MANHOLE. COMPLETELY CLEAN OUT CATCH BASINS, YARD DRAINS AND MANHOLES, INCLUDING THE REMOVAL OF ANY ACCUMULATED SEDIMENT AND DEBRIS AND THE THOROUGH CLEANING OF THE INTERIOR WALLS, AT LEAST ONCE EVERY TWELVE (12) MONTHS OR MORE OFTEN IF/WHEN THE ACCUMULATION OF ANY FLOATING MATERIALS EXCEEDS TWO (2) INCHES IN DEPTH AND/OR WHEN THE ACCUMULATION OF SEDIMENT EXCEEDS ONE (1) FOOT IN DEPTH. THE SUGGESTED METHOD FOR CLEANING THESE CATCH BASINS AND YARD DRAINS IS BY PUMPING OUT THE CONTENTS INTO A SECURE WATERTIGHT TRUCK-MOUNTED TANK, AND CLEANING OF THE INTERIOR OF THE CATCH BASIN OR YARD DRAIN WITH A HIGH-PRESSURE WATER STRJAM.
- PERFORM CATCH BASIN CLEANING BY EMLOYING A CERTIFIED WASTE HANDLER LICENSED FOR THAT PURPOSE IN ACCORDANCE WITH LOCAL REGULATIONS AND ORDINANCES, THE CONNECTICUT GENERAL STATUTES, THE REGULATIONS OF CONNECTICUT STATE AGENCIES, AND/OR FEDERAL STATUTES AND REGULATIONS, AS APPLICABLE. ALL MATERIAL REMOVED BY THE WASTE HANDLER SHALL BE DISPOSED OF OFF THE SITE IN A MANNER AS PRESCRIBED BY ALL APPLICABLE LOCAL, STATE AND FEDERAL STATUTES AND REGULATIONS.

RETENTION/INFILTRATION BASINS:

DURING THE ACTIVE CONSTRUCTION STAGE, ONCE THE RETENTION/INFILTRATION BASINS ARE COMPLETED, AND AFTER CONSTRUCTION:

- INSPECT THE BASINS DAILY TO ENSURE THERE IS NO ACCUMULATION OF SEDIMENT OR DEBRIS, INCLUDING LEAF LITTER, WHICH WOULD IMPAIR OR INTERFERE WITH THE FLOW THROUGH AND/OR DRAINAGE OF THE BASINS AND/OR INFILTRATION OF COLLECTED STORMWATER RUNOFFF, OR THE OPERATION OF THE OUTLET CONTROL STRUCTURES AND EMERGENSY SPILLWAYS, (IF SO EQUIPPED). PROMPTLY REMOVE ANY DEBRIS PRESENT IN THE BASINS EXCEEDING SIX (6) INCHES IN DEPTH, AND ANY SEDIMENT ACCUMULATION OR DEBRIS WHICH IS INTERFERING WITH OR WHICH COULD IMPEDE WATER FLOW THROUGH THE BASIN AND/OR THROUGH THE OUTLET CONTROL STRUCTURE OR EMERGENCY SPILLWAY. PROPERLY DISPOSE OF SEDIMENT AND DEBRIS REMOVED FROM THE RETENTION/INFILTRATION BASINS AND OVERFLOW FEATURES, AS DESCRIBED ABOVE.

RECORD KEEPING:

- WRITTEN RECORDS DETAILING THE INSPECTION AND MAINTENANCE OF ALL CATCH BASINS, YARD DRAINS, DRAIN MANHOLES AND THE STORMWATER RETENTION/INFILTRATION BASIN ON THIS SITE, INCLUDING COPIES OF THE WASTE HANDLER'S MANIFESTS AS APPLICABLE, SHALL BE MAINTAINED ON SITE BY THE BUSINESS OPERATING AT THIS LOCATION, FOR A MINIMUM OF SEVEN (7) YEARS FROM THE DATE THE SERVICE IS PERFORMED. SUCH RECORDS SHALL BE READILY AVAILABLE FOR INSPECTION BY AUTHORIZED TOWN OF MANCHESTER, STATE AND/OR FEDERAL STAFF REPRESENTATIVES OR OFFICIALS, WHEN REQUESTED.

LEGEND

●	EXISTING IRON PIN	▭	CATCH BASIN
○	PROPERTY CORNER/IRON PIN TO BE SET	Ⓢ	SANITARY MANHOLE
W.F. 1–A15 •	WETLAND FLAG	——SS——	SANITARY SEWER
—•—•—	LIMIT OF FIELD DETERMINED WETLANDS	——W——	WATER
	TREE	——GAS——	GAS
~~	WATERCOURSE	——WS——	WATER SERVICE
G.V. ○	GATE VALVE	——GS——	GAS SERVICE
C.S. ○	CURB STOP	——TC——	TELECOMMUNICATIONS CABLES IN CONDUIT
⋇	HYDRANT	Ⓓ	STORM DRAIN MANHOLE
——ELEC——	ELECTRIC CABLES IN CONDUIT	===RCP===	STORM DRAIN
G.D. ■	GUTTER DOWNSPOUT	○ C.O.	CLEANOUT

NOTE: ALL CURB STOPS AND VALVES ON THE WATER AND FIRE SERVICES SHALL BE INSTALLED 5 FEET FROM THE WATER MAIN

PROPERTY OWNER:
360 BURNHAM STREET, LLC
61 SCHOOL BROOK LANE
VERNON, CT 06066

APPLICANT:
360 BURNHAM STREET, LLC
61 SCHOOL BROOK LANE
VERNON, CT 06066
(860)-803-1859

ZONE: I
(INDUSTRIAL)

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996, AND CONFORMS TO HORIZONTAL ACCURACY CLASS C AND TO TOPOGRAPHIC ACCURACY CLASS T-2 & T-3.

SURVEY TYPE: IMPROVEMENT LOCATION SURVEY - PROPOSED

BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY

SURVEYORS SIGNATURE | 08/19 DATE | 70278 LICENSE NUMBER

811 Know what's below. CALL before you dig. Dial 811.

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED ON PHYSICAL EVIDENCE OBTAINED IN THE FIELD AND AVAILABLE MAPPING BY OTHERS. ALL SUCH LOCATIONS ARE APPROXIMATE ONLY AND THE INFORMATION SHOWN MAY BE INCORRECT OR INCOMPLETE. ALL EXISTING CONDITIONS SHALL BE CONFIRMED BY THE EXCAVATOR IN THE FIELD PRIOR TO BEGINNING ANY WORK. THE EXCAVATOR SHALL NOTIFY THE CONNECTICUT "CALL BEFORE-YOU-DIG" PROGRAM BY DIALING 811 OR CALLING 1-800-922-4455, AT LEAST 2 FULL WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION FOR MARK-OUT OF THE LOCATION OF ALL EXISTING UTILITIES BY THE RESPECTIVE UTILITY COMPANIES. (FOR MORE INFORMATION VISIT WWW.CBYD.COM).

RAYMOND F. NELSON, JR., P.E.
CIVIL ENGINEER
P.O. BOX 173
VERNON ROCKVILLE, CT 06066-0173
rfnelsonjr.pe@gmail.com

REV.	DATE	DESCRIPTION
1	04-15-2020	ADDRESS TOWN REVIEW COMMENTS

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MESSIER SURVEY LLC
LAND SURVEYORS
THESE DRAWINGS ARE THE PROPERTY OF THE SURVEYOR AND HAVE BEEN PREPARED SPECIFICALLY FOR THE OWNER FOR THIS PROJECT AT THIS SITE, AND ARE NOT TO BE USED FOR ANY OTHER PURPOSE, LOCATION, OR OWNER WITHOUT WRITTEN CONSENT OF THE SURVEYOR.
NO DECLARATION IS EXPRESSED OR IMPLIED UNLESS THIS PLAN BEARS THE EMBOSSED SEAL OF THE LAND SURVEYOR WHOSE SIGNATURE APPEARS HEREON.

DAVID A. SMILER
L.S. #70278

MESSIER SURVEY LLC
LAND SURVEYORS
61 SCHOOL BROOK LANE
VERNON, CT (860) 646-6013
WWW.MESSIERSURVEY.COM

SURVEY–SUBDIVISION–CONSTRUCTION LAYOUT

UTILITY PLAN

SHOWING PROPERTY OF:
360 BURNHAM STREET, LLC
PREPARED FOR:
360 BURNHAM STREET, LLC
360 BURNHAM STREET
SOUTH WINDSOR, CONNECTICUT

DATE :	09/19
SCALE :	1"=20 FT.
DRAWN :	DAS
CHECK :	DAS
SHEET	6 OF 12
PROJECT No.	19-023
PLAN No.	19-010

TCOMP. FILE = 19-010-PROPOSED UTILITY.DWG