

**LEGEND**

**EXISTING**

WATER MAIN	
SANITARY SEWER	
GAS MAIN	
STORM SEWER	
UNDERGROUND TELEPHONE	
OVERHEAD ELECTRIC	
WATER GATE VALVE	
CURB STOP (WATER SHUT OFF)	
STORM SEWER CATCH BASIN	
GAS CAP	
SANITARY SEWER MANHOLE	
POWER POLE	
LIGHT POLE	
HYDRANT	
CONSTRUCTION CENTERLINE AND STATIONING	
HIGHWAY RIGHT-OF WAY	
FENCE	
SIGN	
TREE OR BUSH	
EDGE OF WOODS OR VEGETATION	
CURB	
EDGE OF PAVEMENT / SHOULDER	
SIDEWALK	
CONCRETE MONUMENT	
IRON PIN	
LOCATION OF SUBSURFACE SOIL / LEDGE SOUNDING	

**NEW**

FUTURE CURB	
FUTURE STORM SEWER	
FUTURE STORM SEWER CATCH BASIN	
FUTURE SIDEWALK	
WATER MAIN	
BUTTERFLY OR GATE VALVE	
CURB STOP	
HYDRANT	
CUT AND CAP LOCATION	
6" BLOWOFF	
AIR RELEASE MANHOLE ASSEMBLY	
MANUAL AIR RELEASE LOCATION	

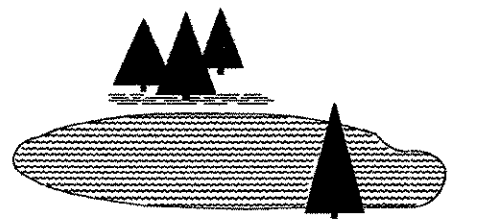
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**GENERAL CONSTRUCTION NOTES**

- INSTALLATION OF PIPE AND FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF AWWA STANDARD SPECIFICATIONS FOR INSTALLATION OF DUCTILE IRON WATER MAINS AND APPURTENANCES, C600; AND IN ACCORDANCE WITH THE LATEST INSTALLATION REQUIREMENTS OF THE TEN STATES' STANDARDS.
- ALL NEW 12", 8", AND 6" DIAMETER PIPELINE SHALL BE DICL, CLASS 51, POLYETHYLENE ENCASED, WITH PUSH-ON JOINTS AND MJ FITTINGS.
- ALL PIPE FITTINGS SHALL BE DICL, CLASS 350, OR CICL, CLASS 250, MJ, OR AS NOTED.
- INSTALL ANCHOR TEE OR COUPLING AND MEGA-LUG STYLE RETAINER GLANDS AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- ALL PIPE FITTINGS AND APPURTENANCES SHALL BE THRUSTED AND / OR RESTRAINED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER. ALL MJ FITTINGS ON DUCTILE IRON PIPE ARE TO HAVE MEGA-LUG GLANDS FOR ADDITIONAL JOINT RESTRAINT.
- MECHANICAL JOINT FITTINGS TO BE ENCASED IN CONCRETE SHALL BE COVERED WITH HEAVY PLASTIC TO PREVENT DIRECT CONTACT OF GLANDS AND BOLTS WITH THE CONCRETE.
- CONCRETE THRUST BLOCKS AND ENCASEMENTS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
- MINIMUM COVER OVER PIPELINES AND SERVICES SHALL BE 5 1/2 FEET. IN AREAS WHERE COVER IS LESS THAN 5 1/2 FEET, POLYSTYRENE INSULATION SHALL BE INSTALLED 6" OVER THE CROWN OF THE PIPE OR SERVICE ON A UNIFORM BED OF GRANULAR MATERIAL FREE FROM LARGE STONES AND ROCKS. THE INSULATION SHALL BE 4 FEET IN WIDTH AND 4" IN THICKNESS. THE PIPELINE OR SERVICE SHALL ALSO BE INSULATED AS DIRECTED BY THE ENGINEER WHEN IT PASSES WITHIN 4' OF CATCH BASINS, STORM DRAINS, OR OTHER STRUCTURES. PIPELINES OR SERVICES WITH LESS THAN 4' OF COVER SHALL BE RELAID TO A MINIMUM OF 5 1/2' OF COVER.
- SHEETING AND SHORING SHALL BE USED WHERE REQUIRED BY THE ENGINEER AND AN ADEQUATE MEANS OF DEWATERING SHALL BE USED IN WET AREAS TO PREVENT GROUND WATER OR SILT FROM ENTERING THE PIPELINE.
- A MINIMUM STANDARD WATER / SEWER SEPARATION OF 18" VERTICALLY OR 10 FEET HORIZONTALLY WILL BE REQUIRED. THE WATER MAIN SHALL BE ENCASED IN CONCRETE FOR 5' ON BOTH SIDES (10' TOTAL) OF EVERY SEWER CROSSING.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS WITH THE APPROPRIATE UTILITY AND / OR BY EXPLORATORY EXCAVATION. THE OWNER STRONGLY RECOMMENDS THOROUGH FIELD INVESTIGATION BY THE CONTRACTOR ALONG THE ROUTE OF THE PIPELINE TO ASCERTAIN THE LOCATIONS OF ALL POTENTIAL OBSTACLES, SOME OF WHICH MAY NOT BE SHOWN ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL PROVISIONS NECESSARY TO ADEQUATELY PERFORM THE PIPELINE TESTING, FLUSHING, AND DISINFECTION, AT HIS EXPENSE.
- SOILS INVESTIGATION HAS BEEN CARRIED OUT AT VARIOUS LOCATIONS ON THE PROJECT, DESIGNATED BY THE FOLLOWING SYMBOL: A122 . A LOG OF ALL SUBSURFACE INFORMATION IS PROVIDED IN THE SUPPLEMENTAL GENERAL CONDITIONS SECTION OF THE CONTRACT SPECIFICATIONS.
- THE GENERAL SEQUENCE OF CONSTRUCTION SHALL BE AS FOLLOWS:
  - INSTALL ALL NEW MAINS AND HYDRANTS
  - TEST AND DISINFECT NEW MAINS
  - PLACE NEW MAINS IN SERVICE WITH EXISTING MAIN REMAINING IN SERVICE
  - INDIVIDUALLY, CUT OVER ALL SERVICES AND RECONNECTIONS TO THE NEW MAIN
  - ABANDON THE OLD MAIN IN PLACE:** ALL OLD VALVES SHALL BE CLOSED, VALVE BOXES SHALL BE REMOVED, CUT ENDS OF ABANDONED SECTIONS SHALL BE CAPPED AND THRUSTED, AND ALL OLD CURB STOPS ON ABANDONED SECTIONS OF SERVICE LINES SHALL BE REMOVED, OR REMOVE; THE OLD MAIN AND ALL APPURTENANCES.
- THE 12", 8", AND 6" PIPE INSTALLATION UNIT PRICES SHALL INCLUDE THE COST TO FURNISH AND INSTALL POLYETHYLENE PIPE ENCASEMENT FOR CORROSION PREVENTION ON ALL NEW DUCTILE IRON PIPE, AND SHALL ALSO INCLUDE THE COST TO FURNISH AND INSTALL SAND BEDDING AND SAND PIPE ENVELOPE TO 4" ABOVE THE CROWN OF THE PIPE.
- ANNULAR FILL WITHIN THE PIPE SLEEVES MAY BE REQUIRED, AT THE DISCRETION OF THE ENGINEER, WHEN THE CASING SPACERS FAIL TO AFFECT A TIGHT FIT WITHIN THE SLEEVE. OTHERWISE THE ANNULAR FILL WILL NOT BE REQUIRED.
- ALL SALVAGED PIPE MATERIALS AND APPURTENANCES ARE THE PROPERTY OF THE SOUTH BURLINGTON WATER DEPARTMENT, AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE PIPE STORAGE YARD AT THE PETER L. JACOB WATER TREATMENT FACILITY ON QUEEN CITY PARK ROAD IN SOUTH BURLINGTON.
- GENERALLY, OPEN CUT TRENCHING OPERATIONS WILL NOT BE ALLOWED CROSSING SHELburne ROAD / U.S. ROUTE 7. ALL CROSSINGS SHALL BE BY THE JACK AND BORE, OR MOLE TECHNIQUE AS INDICATED AND SPECIFIED IN THE CONTRACT DOCUMENTS, WITH THE EXCEPTION OF BARLETT BAY ROAD CROSSING.
- EROSION CONTROL, DUST CONTROL, AND TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR AS DESCRIBED IN THE CONTRACT DOCUMENTS AND AS REQUIRED BY THE ENGINEER.
- LINE AND GRADE FOR THE RELOCATED 12" WATER MAIN ARE CRITICAL TO AVOID CONFLICTS WITH EXISTING AND FUTURE UTILITIES, STORM DRAINS, AND MISCELLANEOUS UNDERGROUND STRUCTURES. THE CONTRACTOR SHALL CONSTRUCT THE NEW MAIN ACCORDING TO THE LINES AND GRADES SHOWN ON THE CONSTRUCTION DRAWINGS OR AS MODIFIED AS DIRECTED BY THE ENGINEER.

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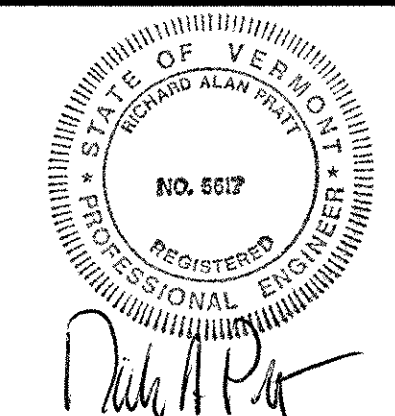
Dedicated to Quality  
Water and Service

SCALE: NONE



**REVISIONS**

REV. #	DATE	BY



CONTRACT #63  
WATER MAIN  
RELOCATION  
U.S. ROUTE 7 -  
SHELburne ROAD

INDEX SHEET

DATE:	APRIL, 2002
DESIGNED BY:	RAP
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SHEET	2 OF 18
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