

GENERAL NOTES:

- SURVEY PROVIDED TO DUFRESNE & ASSOCIATES PC BY DUBOIS & KING. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE BASED ON INFORMATION PROVIDED BY CITY OF BARRE. THIS IS NOT A BOUNDARY SURVEY.
- CONTRACTOR IS TO PROVIDE TEMPORARY WATER SERVICE TO HOUSES WITH AN ASTERISK (*) AND ALL HOUSES ON BRANCH AND BROOKLYN STREETS. FOR TEMPORARY WATER SERVICE, THE CONTRACTOR SHALL FURNISH AND INSTALL ISOLATION/CORPORATION STOPS AS NECESSARY TO ISOLATE THE TEMPORARY SERVICE FROM THE EXISTING MAIN FOR EACH BUILDING. WATER SERVICE SHALL NOT BE INTERRUPTED FOR MORE THAN FOUR (4) HOURS. ALL CUSTOMERS THAT MAY BE TEMPORARILY OUT OF WATER SHALL BE NOTIFIED TWENTY-FOUR (24) HOURS PRIOR TO ACTIVITY BY CONTRACTOR.
- EXPLORATORY EXCAVATION IS REQUIRED TO LOCATE UNDERGROUND UTILITIES. CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DAMAGE TO EXISTING UTILITIES. PAYMENT WILL BE MADE UNDER PAY ITEM 204.22 TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.P.B.I.) CONTRACTOR SHALL COORDINATE WITH DIG SAFE (1-888-DIG SAFE) A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION.
- LOCATION OF PROPOSED WATER MAIN IS INTENDED NOT TO DISTURB ROOT SYSTEMS OF EXISTING TREES OR SHRUBS. CONTRACTOR SHALL EXERCISE DUE CARE TO PREVENT DAMAGE THERETO. ALL DISTURBED AREAS SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS.
- ALL WORK IS TO BE DONE IN PUBLIC RIGHT-OF-WAY OR EASEMENT AREAS.
- LISTING OF ADAPTERS, FITTINGS, NIPPLES, ETC. IS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. ADDITIONAL MATERIAL MAY BE REQUIRED. SOLID SLEEVE COUPLINGS WILL BE REQUIRED FOR CONNECTION TO EXISTING MAINS.
- MINIMUM VERTICAL CLEARANCE BETWEEN NEW WATER MAINS AND ALL EXISTING UTILITIES, EXCEPT SEWERS AND STORM DRAINS TO BE SIX (6) INCHES AT CROSSING LOCATIONS. FOR SEWER, SEE NOTES ON DRAWING C5.
- ALL BURIED FITTINGS MUST BE BLOCKED. REFER TO THRUST BLOCK DETAILS, AND TRENCH DETAIL SHOWN ON DRAWING C5.
- MECHANICAL JOINT RESTRAINTS SHALL BE USED WHERE VALVES BE WILL SUBJECTED TO SERVICE PRESSURES ON ONE SIDE BEFORE BEING FULLY INCORPORATED INTO THE DISTRIBUTION SYSTEM.
- WATER MAINS TO HAVE 5.5 FEET MINIMUM COVER UNLESS OTHERWISE STATED OR SHOWN ON THE PROFILES. WHEN 5.5 FEET OF COVER CANNOT BE MAINTAINED 4" RIGID BOARD INSULATION SHALL BE USED. DEPTH OF COVER SHALL NOT BE LESS THAN 4 FEET EVEN WITH INSULATION. SEE VAOT MATERIAL SPECIFICATION SUBSECTION 735.01.
- ALL MECHANICAL JOINT FITTING AND VALVES SHALL INCORPORATE A MEGA-LUG RETAINER GLAND, WITH MEGA-BOND COATING SYSTEM, INSTEAD OF THE COMMON FOLLOWER GLAND.
- ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN USING THE BEST AVAILABLE INFORMATION. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL UTILITIES WHETHER OR NOT THEY ARE SHOWN ON THE PLANS. ALL REPAIRS TO DAMAGED UTILITIES SHALL BE MADE BY THE CONTRACTOR USING MATERIAL APPROVED BY THE ENGINEER PRIOR TO INSTALLATION, AT CONTRACTOR'S EXPENSE.
- CONTRACTOR IS RESPONSIBLE FOR FLUSHING, PRESSURE TESTING AND DISINFECTION OF ALL NEW WATER MAIN. CHLORINE INJECTION POINTS SHALL BE INSTALLED WHERE REQUIRED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION AND REMOVED UPON COMPLETION OF TESTING.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND ELECTRIC, CABLE AND TELEPHONE LINES AND TAKE NECESSARY PRECAUTIONS IN STRICT ACCORDANCE WITH OSHA STANDARDS DURING CONSTRUCTION. CONTRACTOR SHALL CONTACT THE LOCAL POWER UTILITY AND TELEPHONE UTILITY REGARDING ANY NECESSARY SUPPORT OF ANY UTILITY POLES DURING CONSTRUCTION. LOCAL ELECTRIC UTILITY IS GREEN MOUNTAIN POWER COMPANY. LOCAL COMMUNICATION UTILITIES ARE FAIRPOINT, CHARTER, AND LEVEL 1.
- GENERALLY HEAVY OR DARK LINE WORK OR NOTES REFER TO PROPOSED IMPROVEMENTS. LIGHT LINE WORK OR SCREENED GENERALLY DENOTES EXISTING FEATURES.
- TECHNICAL SPECIFICATIONS PROVIDE NECESSARY INFORMATION AND ARE PART OF THE CONTRACT DOCUMENTS FOR THIS PROJECT.
- CONTRACTOR SHALL CONNECT WATER SERVICES TO IDENTIFIED WATER USERS UPON COMPLETION OF INSTALLATION OF WATER MAIN AND RECEIPT OF TWO SUCCESSFUL BACTERIOLOGICAL TESTS.
- PAYMENT FOR UTILITY WORK WILL BE MADE IN ACCORDANCE WITH WATER LINE INSTALLATION NOTE 5 ON SHEET C2.

LOCAL VALVE OPERATION

- EXISTING AND PROPOSED MAIN LINE GATE VALVES AND BUTTERFLY VALVES SHALL BE OPEN RIGHT OR CLOCKWISE. OPERATION OF GATE VALVES WILL BE PERFORMED BY THE OWNER'S STAFF ONLY.
- ALL INTERCONNECTIONS TO EXISTING SYSTEM CAN ONLY BE MADE WITH THE WRITTEN PERMISSION OF THE CITY ENGINEER.

QUANTITIES FOR NON-PARTICIPATING PAY ITEM 900.645 SPECIAL PROVISION (WATERLINE, MUNICIPAL)

DESCRIPTION	UNIT	QUANTITIES
16" DI PIPE	LF	100
12" DI PIPE	LF	20
8" DI PIPE	LF	440
6" DI PIPE	LF	60
DI FITTINGS	LBS	7000
RIGID INSULATION	SF	200
16" BUTTERFLY VALVE	EA	1
8" GATE VALVE	EA	7
6" GATE VALVE	EA	4
FIRE HYDRANT	EA	1
HYDRANT EXTENTION	VF	1
3/4" COPPER PIPE	LF	20
3/4" CORPORATIONS STOPS	EA	1
3/4" CURB STOPS	EA	1
MANUAL AIR RELEASE	EA	8
INTERCONNECT TO EXISTING	EA	7
LEDGE EXCAVATION	CY	50
BOULDER EXCAVATION	CY	50
EXPLORATORY EXCAVATION	CY	250
3000 PSI CONCRETE	CY	15
TEMP TRENCH PATCH L-I-P	SY	700
WOOD SHEETING L-I-P	MBF	1
STEEL SHEETING L-I-P	TON	1
UNIFORM TRAFFIC OFFICER	HRS	400
HEAT TRACE SYSTEM	LS	1

LEGEND

PROPOSED:	EXISTING:
HPW HIGH PRES. WATERLINE	ROW
LPW LOW PRES. WATERLINE	EDGE OF RIVER
SOLID SLEEVE	EDGE OF PAVEMENT
REDUCER	EDGE OF GRAVEL
GATE VALVE	OHL OVERHEAD WIRE
BUTTERFLY VALVE	W WATERLINE
CURB STOP	D STORM DRAIN
END CAP	G GAS LINE
M.J. PIPE FITTINGS	S SEWER LINE
MANUAL AIR RELEASE	622 CONTOUR
EXISTING WATERLINE TO BE ABANDONED IN PLACE	GUARDRAIL
	UTILITY POLE
	GUY WIRE
	CATCH BASIN
	DMH STORM MANHOLE
	SMH SEWER MANHOLE
	FIRE HYDRANT
	WATER SHUT OFF
	GATE VALVE
	REDUCER
	GV GAS VALVE
	GUARD RAIL POST
	ROAD SIGN
	BUILDING
	TRUNCATED DOME
	GRANITE CURB
	EXPOSED AGGREGATE

ABBREVIATION LIST

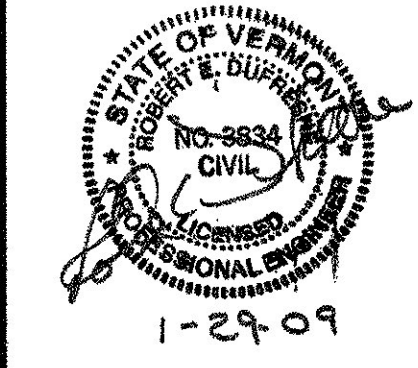
ABB	DESCRIPTION
CI	CAST IRON PIPE
CIP	CHLORINE INJECTION POINT
CMP	CORRUGATED METAL PIPE
CPP	CORRUGATED PLASTIC PIPE
CU	COPPER PIPE
D	DRAIN
DI	DUCTILE IRON PIPE
DMH	DRAINAGE MANHOLE
EL	ELEVATION
ER	EROSION
HPW	HIGH PRESSURE WATER
HYD	FIRE HYDRANT
INV	INVERT
IP	IRON PIPE
LPW	LOW PRESSURE WATER
MAR	MANUAL AIR RELEASE
MJ	MECHANICAL JOINT
ROW	RIGHT OF WAY
S	SEWER
SMH	SEWER MANHOLE
STA	STATION
TBM	TEMPORARY BENCH MARK
TYP	TYPICAL
W	WATER
WSO	WATER SHUT OFF
WV	WATER VALVE



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REVISIONS	DATE	BY	BLB	COMMENTS
	1/29/09			FINAL REVIEW COMMENTS

PROSPECT STREET OVER STEVENS BRANCH

WATER MAIN GENERAL NOTES

BARRE, VERMONT

Project #	418008
Project Mgr.	R.N. GOODWIN
Design by	R.N. GOODWIN
Drawn by	GLW
Reviewed by	R.E. DUFRESNE
Approved by	R.E. DUFRESNE
Date	JANUARY 29, 2009
Scale	AS SHOWN

C1

FILE: P:\418008-PROSPECT STREET BRIDGE CROSSING CHAS. V. 1/29/09-C1.dwg, Jan. 30, 2009 - 12:40pm