

LEGEND		
DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER	— S —	— S' PVC —
LOW PRESSURE SEWER	— LP —	— LP' —
WATER MAIN	— W —	— W' DI —
TEMPORARY WATER	— D —	— 4" W —
STORM DRAIN	— D —	— 18" RCP —
GAS	— G —	— 4" G —
ELECTRIC	— E —	— E —
TELEPHONE	— T —	— T —
HOUSE CONNECTION		6" HOUSE CONN (TYP)
GRINDER PUMP	○	● GP
SANITARY SEWER MANHOLE	⊙	● SMH
STORM DRAIN MANHOLE	⊙	● SMH
ELECTRICAL MANHOLE	⊙	● EMH
TELEPHONE MANHOLE	⊙	● TMH
AIR RELEASE VALVE MANHOLE	○	● ARHV
AIR RELEASE VALVE	○	● ARV
CLEANOUT	○	● CO
CATCH BASIN	□	■ CB
CATCH BASIN (CURB INLET)	■	■ CB
HYDRANT	⊙	⊙
TEMPORARY HYDRANT	⊙	⊙
GATE VALVE	⊗	⊗
CHECK VALVE	⊗	⊗
CURB STOP	⊗	⊗
BUTTERFLY VALVE	⊗	⊗
BALL VALVE	⊗	⊗
REDUCER	⊗	⊗
CAP OR PLUG	⊗	⊗
GAS GATE VALVE	⊗	⊗
UTILITY POLE	⊗	⊗
GUY POLE	⊗	⊗
EDGE OF PAVEMENT	—	—
EDGE OF UNPAVED ROAD	—	—
CURB	—	—
SIDEWALK	—	—
RAILROAD	—	—
STONE WALL	—	—
RETAINING WALL	—	—
INDIVIDUAL DECIDUOUS TREE	—	—
INDIVIDUAL EVERGREEN TREE	—	—
TREE LINE	—	—
SURVEY MARKER	—	—
PROPERTY LINE	—	—
EASEMENT LINE	—	—
LIMIT OF WORK	—	—
APPROX. LIMIT OF REFUSE	—	—
SPOT ELEVATIONS	—	—
CONTOUR LINES	—	—
DEPRESSION CONTOUR LINES	—	—
HOUSE NUMBER	—	—
FLOOR ELEVATION	—	—
SILL ELEVATION	—	—
WETLAND	—	—
WETLAND FLAGS	—	—
RIP RAP	—	—
STATE HIGHWAY STATION	—	—
SURFACE MOUNTED DELINEATOR	—	—
GUARD POST	—	—
BOLLARD	—	—
SKIN	—	—
BENCH MARK	—	—
AUGER	—	—
PERCOLATION TEST	—	—
TEST PIT	—	—
BORING	—	—
PROBE	—	—
INLET PROTECTION	—	—
LIMIT OF RECLAIMATION AND OVERLAY	—	—
SILTATION FENCE	—	—
HAY BALES	—	—
ROCK OUTCROP	—	—
DRAINAGE DITCH / SWALE	—	—

NOTE: ITEMS SHOWN IN THE LEGEND MAY NOT BE PRESENT IN THESE PLANS

ABBREVIATIONS

AC	ASBESTOS CEMENT PIPE	AC	ASBESTOS CEMENT PIPE
ACOMP	ASPHALT COATED CORRUGATED METAL PIPE	ACOMP	ASPHALT COATED CORRUGATED METAL PIPE
ARV	AIR RELEASE VALVE	ARV	AIR RELEASE VALVE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BL	BUILDING	BL	BUILDING
BLDG	BUILDING	BLDG	BUILDING
BM	BENCH MARK	BM	BENCH MARK
BO	BLOW OFF	BO	BLOW OFF
BY	BUTTERFLY VALVE	BY	BUTTERFLY VALVE
CATV	CABLE TELEVISION	CATV	CABLE TELEVISION
CB	CONCRETE CURB	CB	CONCRETE CURB
CE	CAST IRON	CE	CAST IRON
CL	CENTERLINE	CL	CENTERLINE
CM	CORRUGATED METAL PIPE	CM	CORRUGATED METAL PIPE
CONC	CONCRETE	CONC	CONCRETE
CU	CURB	CU	CURB
CU YD	CURB YARD	CU YD	CURB YARD
D	STORM DRAIN, DEPTH FROM RIM TO INVERT	D	STORM DRAIN, DEPTH FROM RIM TO INVERT
DI	DROP INLET, DUCTILE IRON	DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER	DIA	DIAMETER
DMH	DRAIN MANHOLE	DMH	DRAIN MANHOLE
DMC	DRAINAGE MANHOLE	DMC	DRAINAGE MANHOLE
EA	EACH	EA	EACH
ELEV	ELEVATION	ELEV	ELEVATION
EOP	EDGE OF PAVEMENT	EOP	EDGE OF PAVEMENT
EXIST	EXISTING	EXIST	EXISTING
FLG	FLANGE	FLG	FLANGE
FT	FEET, FOOT	FT	FEET, FOOT
G	NATURAL GAS	G	NATURAL GAS
GALV	GALVANIZED	GALV	GALVANIZED
GC	GRANITE CURB	GC	GRANITE CURB
HC	HOUSE CONNECTION	HC	HOUSE CONNECTION
HORIZ	HORIZONTAL	HORIZ	HORIZONTAL
HP	HIGH PRESSURE	HP	HIGH PRESSURE
HYD	HYDRANT	HYD	HYDRANT
I	INVERT	I	INVERT
INV	INVERT	INV	INVERT
ID	IRON PIPE	ID	IRON PIPE
LB	POUND	LB	POUND
LF	LINEAR FEET	LF	LINEAR FEET
LS	LUMP SUM	LS	LUMP SUM
MAX	MAXIMUM	MAX	MAXIMUM
MB	MAIL BOX	MB	MAIL BOX
MDC	METROPOLITAN DISTRICT COMMISSION	MDC	METROPOLITAN DISTRICT COMMISSION
MDP	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS	MDP	MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS
MECH	MECHANICAL	MECH	MECHANICAL
MH	MANHOLE	MH	MANHOLE
MHD	MASSACHUSETTS HIGHWAY DEPARTMENT	MHD	MASSACHUSETTS HIGHWAY DEPARTMENT
MIN	MINIMUM	MIN	MINIMUM
MISC	MISCELLANEOUS	MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT	MJ	MECHANICAL JOINT
MRA	MASSACHUSETTS WATER RESOURCES AUTHORITY	MRA	MASSACHUSETTS WATER RESOURCES AUTHORITY
NE	NORTH	NE	NORTH
NW	NORTH WEST	NW	NORTH WEST
NF	NORTH EAST	NF	NORTH EAST
NO	NOT FOUND	NO	NOT FOUND
NO OR #	NUMBER	NO OR #	NUMBER
OD	OUTSIDE DIAMETER	OD	OUTSIDE DIAMETER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE	PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
P	PROPERTY LINE	P	PROPERTY LINE
PL	PLATE	PL	PLATE
PVC	POLYVINYL CHLORIDE	PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT	PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE	RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY	ROW	RIGHT-OF-WAY
RQD	ROCK QUALITY	RQD	ROCK QUALITY
S	SOUTH	S	SOUTH
SE	SOUTH EAST	SE	SOUTH EAST
SECT	SECTION	SECT	SECTION
SF	SQUARE FEET	SF	SQUARE FEET
SHT	SHEET	SHT	SHEET
SPEC	SPECIFICATIONS	SPEC	SPECIFICATIONS
SS	SQUARE FEET	SS	SQUARE FEET
SS FT	SQUARE FEET	SS FT	SQUARE FEET
STA	STATION	STA	STATION
STL	STEEL	STL	STEEL
SW	SIDEWALK, SOUTH WEST	SW	SIDEWALK, SOUTH WEST
T	TEMPORARY BENCH MARK	T	TEMPORARY BENCH MARK
TK	TYPE (NESS)	TK	TYPE (NESS)
TP	TEST PIT	TP	TEST PIT
UP	UTILITY POLE	UP	UTILITY POLE
VC	VITRIFIED CLAY	VC	VITRIFIED CLAY
VERT	VERTICAL	VERT	VERTICAL
W	WATER, WEST	W	WATER, WEST
W/O	WITHOUT	W/O	WITHOUT

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL CALL DISSEAT AT 1-888-344-7233 AT LEAST 72 HOURS, SATURDAYS, SUNDAYS, AND HOLIDAYS EXCLUDED, PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND DISSEAT NUMBERS. DISSEAT NUMBERS SHALL BE GIVEN TO THE OWNER PRIOR TO EXCAVATION.
- LOCATIONS OF EXISTING PIPES, CONDUITS, UTILITIES, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS ARE NOT WARRANTED TO BE CORRECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING UTILITY LOCATION. THEY ARE OTHER THAN SHOWN.
- TEST PITS TO LOCATE EXISTING UTILITIES MAY BE ORDERED BY THE ENGINEER TO DETERMINE WHETHER TO RAISE OR LOWER THE PROPOSED WATER MAIN TO CLEAR EXISTING UTILITIES OR VERIFY EXISTING UTILITY LOCATION, SIZE AND TYPE.
- STONE WALLS, FENCES, MAIL BOXES, SIGNS, CURBS, LIGHT POLES, ETC. SHALL BE REMOVED AS NECESSARY TO PERFORM THE WORK AND REPLACED TO A CONDITION AT LEAST EQUAL TO THAT BEFORE CONSTRUCTION BEGAN. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE PROJECT.
- ALL PAVEMENT DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED IN ACCORDANCE WITH THE SPECIFICATIONS AND AS SHOWN ON THE DRAWINGS.
- ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND PAYMENT LIMITS SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
- UNLESS OTHERWISE INDICATED, CONCRETE USED FOR PIPE ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES, AND ALL OTHER CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- APPROVED JOINT RESTRAINT METHODS SHALL BE PROVIDED FOR WATER MAINS WHERE ANY BENDS, TEES, PLUGS, OR WYES ARE INSTALLED. CONCRETE THRUST BLOCKS, ANCHOR BLOCKS AND TEES MAY BE USED FOR 8-INCH AND 8-INCH PIPE WHERE JOINT RESTRAINT IS NOT FEASIBLE. FOR THRUST BLOCKS, JOINT RESTRAINT SHALL BE PROVIDED IN MINIMUM BLOCK BEARING AREAS, SEE DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, OR EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
- NEW WATER MAINS AND SERVICES SHALL BE INSTALLED AT THE MINIMUM DEPTH FROM FINISH GRADE TO TOP OF PIPE AS SHOWN ON THE DRAWINGS. WHERE NECESSARY, NEW WATER MAINS SHALL BE INSTALLED AT A GREATER DEPTH TO CLEAR OBSTACLES SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER. MINIMUM CLEARANCES TO UTILITIES, AS SHOWN ON THE DRAWINGS SHALL BE MAINTAINED.
- EXISTING SERVICES SHALL NOT BE CONNECTED TO THE PROPOSED WATER MAIN UNTIL THAT MAIN HAS PASSED PRESSURE TEST AND DISINFECTION REQUIREMENTS.
- EXISTING WATER MAINS OR SERVICES SHALL NOT BE ABANDONED WITHOUT THE APPROVAL OF THE OWNER. WATER SERVICE SHALL NOT BE INTERRUPTED MORE THAN 4 HOURS WITHOUT PRIOR APPROVAL OF THE OWNER.
- ALL HYDRANTS REMOVED SHALL BE SALVAGED AND DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER.
- ANY HYDRANT WHICH IS NOT IN SERVICE SHALL BE COVERED WITH A SECURELY FASTENED BURLAP BAG. VALVE BOXES ON MAINS TO BE ABANDONED SHALL BE REMOVED BY THE CONTRACTOR AND DELIVERED TO A LOCATION TO BE DETERMINED BY THE OWNER.
- EXISTING WATER MAINS PARALLEL TO PROPOSED WATER MAINS SHALL BE ABANDONED. ALL SERVICE CONNECTIONS SHALL BE TRANSFERRED TO NEW WATER MAINS AS REQUIRED.
- THE LOCATION OF PIPES, CAPS, REDUCERS, BENDS, AND OTHER FITTINGS AT POINTS OF CONNECTIONS TO EXISTING MAINS IS APPROXIMATE. CONTRACTOR SHALL DIG A TEST PIT AT EACH LOCATION TO DETERMINE THE EXISTING MAINS AND TRANSFER SERVICE TO THE EXISTING PIPE AND THE LOCATION OF THE TIE-IN POINT.
- ALL STREET EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL REPAIR OPEN DRIVEWAYS OR HOURLAYS WITHOUT PRIOR APPROVAL OF THE OWNER.
- ALL STREET EXCAVATIONS SHALL BE PAVED WITH PERMANENT TRENCH BINDER COURSE AT THE END OF EACH WEEK.
- THE CONTRACTOR SHALL NOT OPEN OR CLOSE ANY VALVES WITHOUT WATER IN THE SYSTEM. THE OWNER WILL ON 48 HOURS NOTICE FROM THE CONTRACTOR, OPEN AND/OR CLOSE ANY VALVES REQUIRED FOR DRAINING OR ADMITTING WATER TO THE VARIOUS SECTIONS OF THE WATER MAINS. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY IN WRITING 48 HOURS IN ADVANCE, ANY OCCUPANT THAT WILL BE WITHOUT WATER DUE TO A SHUTDOWN.

RECORD DRAWING

TOWN OF EAST LONGMEADOW, MASSACHUSETTS
BOARD OF PUBLIC WORKS
WATER MAIN IMPROVEMENTS PROJECT
ABBREVIATIONS, NOTES AND LEGEND

SCALE: 1"=40'
AS NOTED
CONTRACT: 202038
JOB NO. 202038
DR BY: WGS
PSN BY: WGS
CHK BY: WGS
APP BY: PJC

No.	Date	WGS	Dr. By	App. By	Description
1	02/04	WGS	Dr. By	App. By	RECORD DRAWING

REGISTERED PROFESSIONAL ENGINEER
DATE

2928 MAIN STREET, GLASTONBURY, CT 06033
WESTON & SAMPSON
ENGINEERS, INC.

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