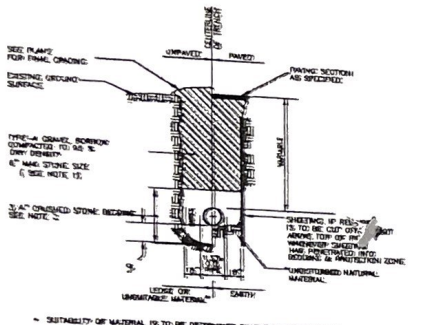
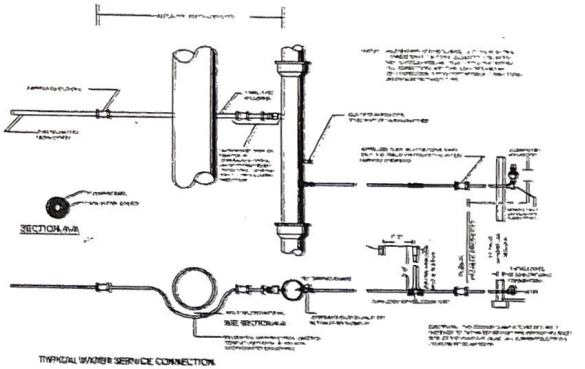
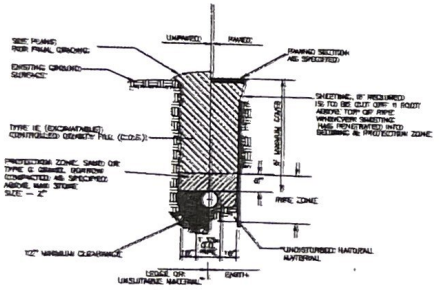


GRAVITY SEWER TRENCH DETAIL

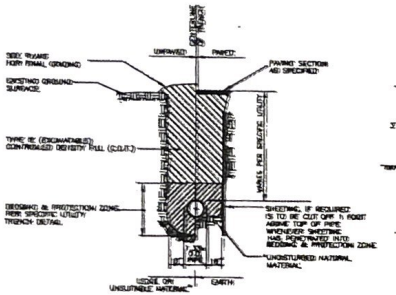


TYPICAL WATER SERVICE CONNECTION



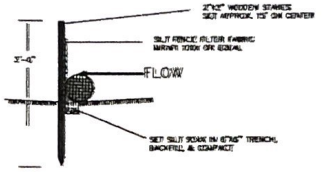
TYPICAL WATER TRENCH DETAIL

NOT TO SCALE



TYPICAL C.D.F. TRENCH DETAIL

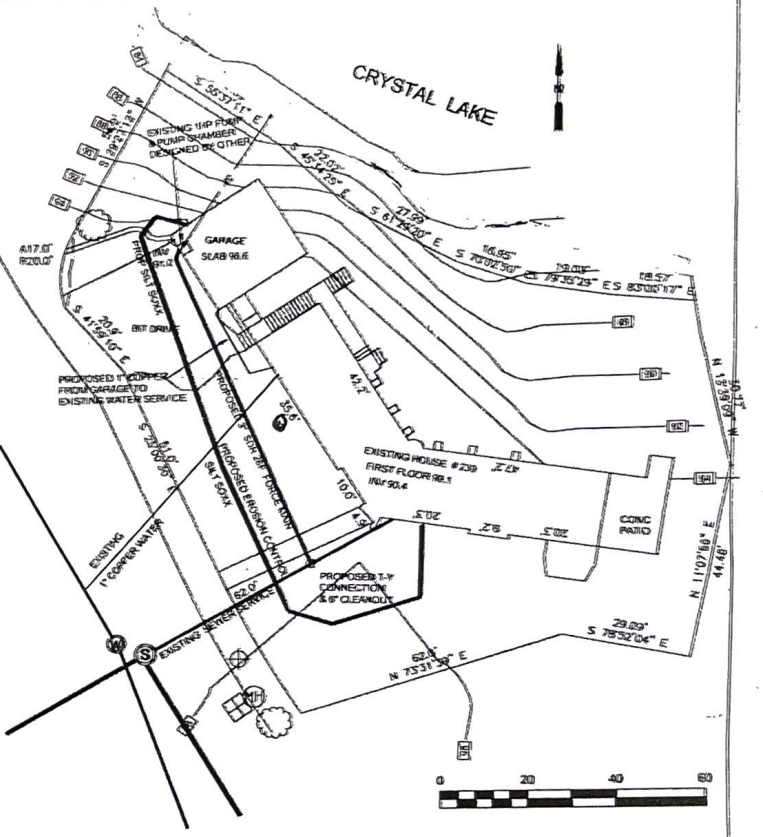
NOT TO SCALE



12" SILT SOXX DEATAIL

CONSTRUCTION SEQUENCE

EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO ANY CONSTRUCTION.



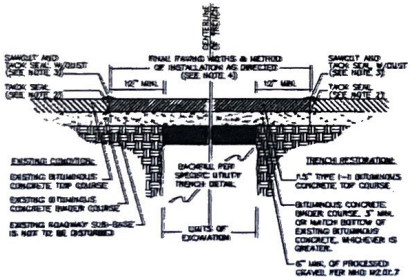
1) ALL WORK TO BE IN ACCORDANCE WITH CITY OF NEWTON AND MASS HIGHWAY STANDARDS.
2) MINIMUM COMPACTION IN TRENCHES TO BE 95%.
3) PRIOR TO START CONSTRUCTION: ALL APPLICABLE LOCAL AGENCIES AND DIG SAFE WILL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO COMMENCING WORK.
4) NO BACKFILLING OF ANY TRENCHES WILL TAKE PLACE UNTIL WORK HAS BEEN INSPECTED AND APPROVED BY THE CITY CONTRACTOR WILL NOTIFY CITY 48 HOURS IN ADVANCE OF UTILITY INSPECTION. UTILITY SYSTEMS MUST BE FULLY EXPOSED FOR THE INSPECTION. TRENCHES CAN ONLY BE BACKFILLED ON APPROVAL & SIGNOFF BY INSPECTOR.
5) AS BUILT UTILITY & GRADING PLAN WILL BE SUBMITTED TO NEWTON DPW(SOC DIV) IN BOTH DIGITAL AND HARD COPY PRIOR TO ISSUANCE OF OCCUPANCY PERMIT. PLAN MUST SHOW ALL UTILITIES, WORK LIMITS, EASEMENTS AND FINAL GRADING.
6) STREET OPENING, SIDEWALK CROSSING, AND UTILITY CONNECTION PERMITS WILL BE OBTAINED FROM THE CITY PRIOR TO COMMENCING ANY WORK.
7) WATER AND SEWER SERVICES WILL BE CUT AND CAPPED AT THE MAIN AND REMAINED FREE FROM DIRT, PROPERLY BACKFILLED & INSPECTED BY THE CITY. UTILITY CONNECTION PERMIT WILL NOT BE ISSUED IF THIS IS NOT ACCOMPLISHED.
8) TRENCH PAVEMENT PERMANENT PATCH WILL CONFORM BETWEEN STANDARDS AND WIDE THE TRENCH SECTION SPECIFIED HEREIN.
9) LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE. CONTRACTOR WILL EXERCISE DUE CARE PRIOR TO COMMENCING WORK. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE RESULTING FROM INCORRECTLY LOCATED UTILITIES.
10) ALL TRENCH WORK WITHIN THE NEWTON ROW WILL BE BACKFILLED WITH TYPE 1R CUT FILL AS SPECIFIED BY THE ENGINEERING SPECIFICATIONS.
11) LOCATIONS OF UNDERGROUND UTILITIES IS APPROXIMATE. CONTRACTOR WILL VERIFY UTILITY LOCATIONS THROUGH INQUIRE. ANY DAMAGE CAUSED BY CONTRACTOR AS A RESULT OF UTILITY LOCATIONS SHOWN WILL BE BORNE SOLELY BY CONTRACTOR AT NO COST TO OWNER.
11) FORCE MAIN SHALL BE PRESSUERE TESTED. INSPECTOR FROM CITY DPW TO BE PRESENT DURING TESTING.

AS OF JAN 1, 2009, ALL TRENCH EXCAVATION CONTRACTORS SHALL COMPLY WITH 4 MGL 6DA, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PROTECT THE PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES. AN EXCAVATION PERMIT IS REQUIRED AND APPLIES TO ALL TRENCHES ON PUBLIC OR PRIVATE PROPERTY.

ALL WORK WITHIN THE NEWTON ROW WILL COMPLY WITH THE CITY'S CONSTRUCTION SPECS. AND 521 CMR 2.00 ET SEQ.

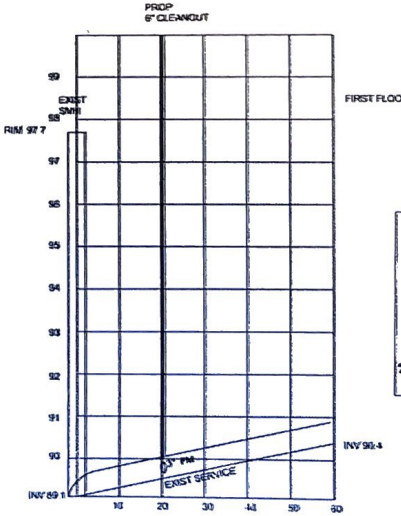
ANY TREE REMOVED FROM THE PROPERTY SHALL MEET THE CITY OF NEWTON TREE ORDINANCE

NO EXCAVATION IS ALLOWED WITHIN ANY CITY RIGHT OF WAY BETWEEN NOVEMBER 15 AND APRIL 15 IF AN EMERGENCY EXISTS OR THERE ARE EXTENUATING CIRCUMSTANCES. APPLICANT MAY SEEK PERMISSION FOR SUCH WORK FROM THE CITY ENGINEER. IF PERMISSION IS GRANTED, SPECIAL CONSTRUCTION STANDARDS WILL BE APPLIED. APPLICANT OR APPLICANT'S REPRESENTATIVE MUST CONTACT THE CITY OF NEWTON ENGINEERING DEPARTMENT PRIOR TO START CONSTRUCTION.



TYPICAL TRENCH REPAIR & PAVEMENT SECTION DETAIL

1. ALL INSTALLATION AND MATERIAL SPECIFICATIONS PER MASS. HIGHWAY DEPARTMENT "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988" AS AMENDED.
2. ALL EXPOSED BITUMINOUS CONCRETE IS TO BE TACKED PER MHD PRIOR TO NEW BITUMINOUS CONCRETE INSTALLATION.
3. ALL EXPOSED JOINTS ARE TO BE SEALED WITH TACK AND STONE DUST.
4. ANY TOP COURSE APPLIED AT A WIDTH OF 6' WIDE OR GREATER IS TO BE PLACED BY MACHINE/BOX SPREADER WHEN & AS DIRECTED BY THE CITY OF NEWTON.



PROPOSED WATER & SEWER

230 LAKE AVE

NEWTON, MA

SCALE: 1 IN = 20 FT

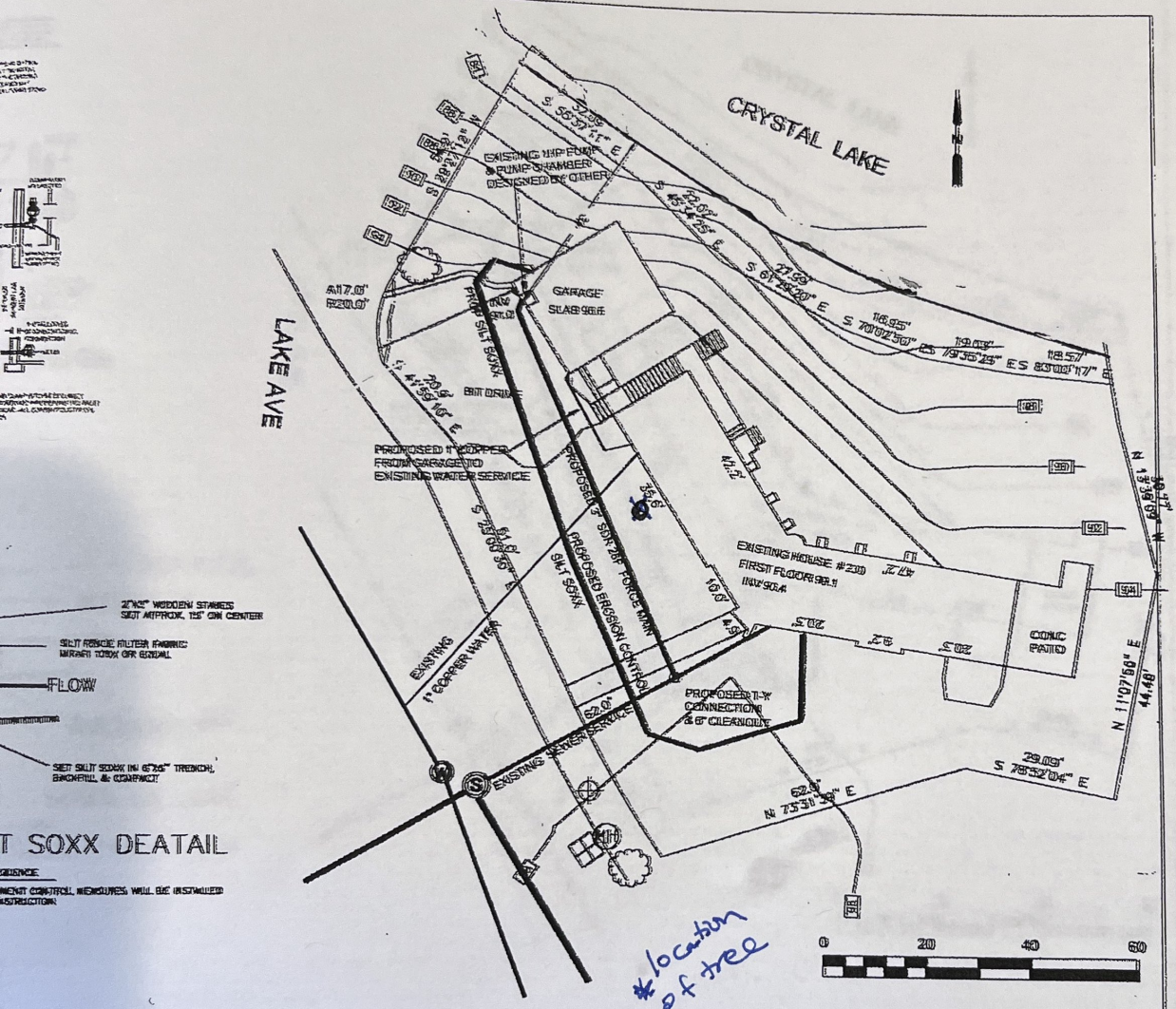
APRIL 13, 2022

AUG 9, 2022

ESSEX ENG. & SURVEY
PO BOX 650217 WEST NEWTON
MA. 02465

617-797-7342

FRANKJEBBA@GMAIL.COM



#location of tree

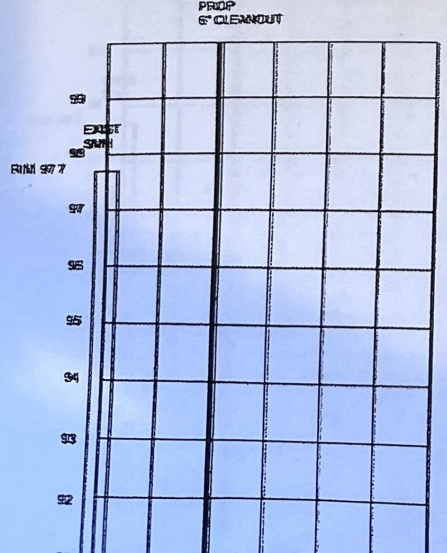
T SOXX DEATAIL

2"X2" WOODEN STAKES SET APPROX. 10' ON CENTER

SILT FENCE FILTER FABRIC MIRAFI 100X OR EQUAL

FLOW

SET SILT SOXX IN 6"X6" TRENCH, BACKFILL & COMPACT



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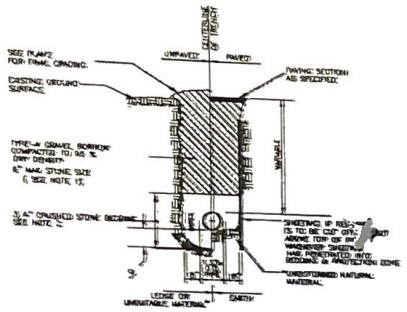
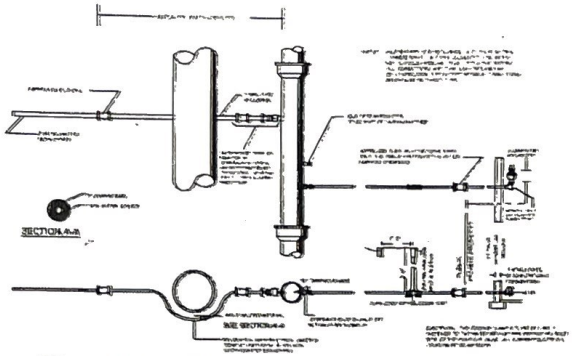


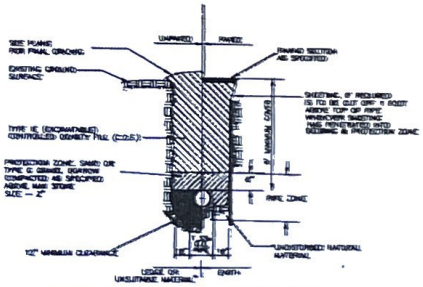
* SUITABILITY OF MATERIAL IS TO BE DETERMINED BY THE CITY OF NEWTON.

1. GRAVEL BORROW SHALL CONFORM TO MASS HIGHWAY SPEC M.01.01
2. CRUSHED BEDDING STONE SHALL CONFORM TO MASS HIGHWAY SPEC M.02.01.1

GRAVITY SEWER TRENCH DETAIL



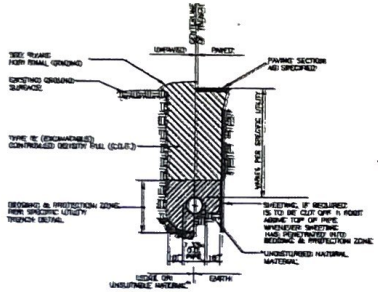
TYPICAL WATER SERVICE CONNECTION



SUITABILITY OF MATERIAL IS TO BE DETERMINED BY THE CITY OF NEWTON.

TYPICAL WATER TRENCH DETAIL

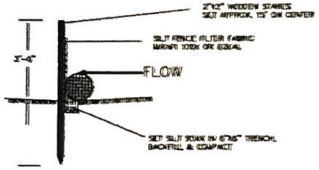
NOT TO SCALE



SUITABILITY OF MATERIAL IS TO BE DETERMINED BY THE CITY OF NEWTON.

TYPICAL C.D.F. TRENCH DETAIL

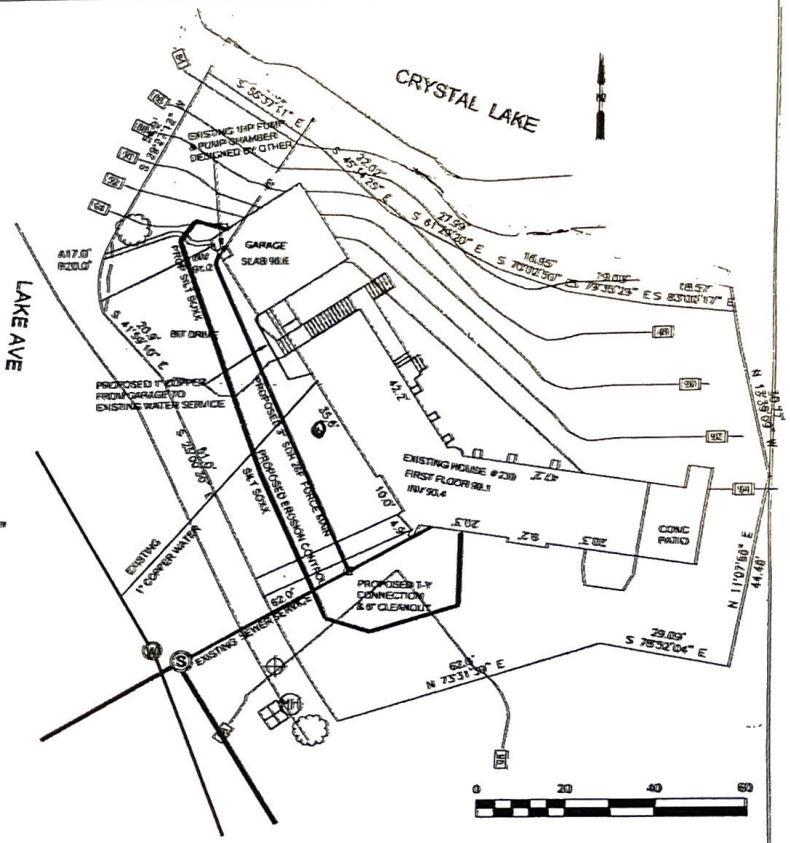
NOT TO SCALE



12" SILT SOXX DEATAIL

CONSTRUCTION SEQUENCE

EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO ANY CONSTRUCTION.



1) ALL WORK TO BE IN ACCORDANCE WITH CITY OF NEWTON AND MASS HIGHWAY STANDARDS.

2) MINIMUM COVERAGE IN TRENCHES TO BE ONE.

3) PRIOR TO START CONSTRUCTION: ALL APPLICABLE LOCAL AGENCIES AND DIG SAFE WILL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO COMMENCING WORK.

4) NO BACKFILLING OF ANY TRENCHES WILL TAKE PLACE UNTIL WORK HAS BEEN INSPECTED AND APPROVED BY THE CITY. CONTRACTOR WILL NOTIFY CITY 48 HOURS IN ADVANCE OF UTILITY INSPECTION. UTILITY SYSTEMS MUST BE FULLY EXPOSED FOR THE INSPECTION. UTILITIES CAN ONLY BE BACKFILLED ON APPROVAL & SIGNOFF BY INSPECTOR.

5) AS BUILT UTILITY & GRADING PLAN WILL BE SUBMITTED TO DEWATER DPW(SEE DPW) BY HAND DRAWN AND HARD COPY PRIOR TO ISSUANCE OF OCCUPANCY PERMIT. PLAN MUST SHOW ALL UTILITIES, WITH TIES, BACKFLOWS AND FINAL GRADING.

6) STREET OPENING, SIDEWALK CROSSING, AND UTILITY CONNECTION PERMITS MUST BE OBTAINED FROM THE CITY PRIOR TO COMMENCING ANY WORK.

7) WATER AND SEWER SERVICES WILL BE CUT AND CAPPED AT THE MAIN AND REMOVED FROM SITE, PROPERLY BACKFILLED & DISPOSED BY THE CITY. UTILITY CONNECTION PERMIT WILL NOT BE ISSUED IF THIS IS NOT ACCOMPLISHED.

8) TRENCH PAVEMENT PERMANENT PATCH WILL CONFORM DEPARTMENT STANDARDS AND MEET THE TRENCH SECTION SPECIFIED REPAIR.

9) LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE. CONTRACTOR MUST EXCAVATE DIG SAFE PRIOR TO COMMENCING WORK. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE RESULTING FROM INCORRECTLY LOCATED UTILITIES.

10) ALL TRENCH WORK WITHIN THE STREETS ROW WILL BE BACKFILLED WITH TYPE 1E CDF FILL AS SPECIFIED BY THE ENGINEERING SPECIFICATIONS.

11) LOCATIONS OF UNDERGROUND UTILITIES IS APPROXIMATE. CONTRACTOR MUST VERIFY UTILITY LOCATIONS THEREON. DAMAGE CAUSED BY CONTRACTOR AS A RESULT OF UTILITY LOCATIONS SHOWN WILL BE BORNE SOLELY BY CONTRACTOR AT NO COST TO OWNER.

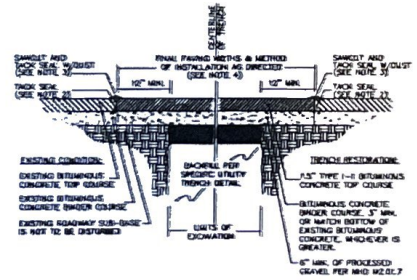
11) FORCE MAIN SHALL BE PRESSUERE TESTED. INSPECTOR FROM CITY DPW TO BE PRESENT DURING TESTING.

AS OF JAN 1, 2026, ALL TRENCH EXCAVATION CONTRACTORS SHALL COMPLY WITH MGL 82A, TRENCH EXCAVATION AND SAFETY REQUIREMENTS, TO PROTECT THE PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES. AN EXCAVATION PERMIT IS REQUIRED AND APPLIES TO ALL TRENCHES ON PUBLIC OR PRIVATE PROPERTY.

ALL WORK WITHIN THE NEWTON ROW WILL COMPLY WITH THE CITY'S CONSTRUCTION SPECS AND 527 CMR 21 & 22.

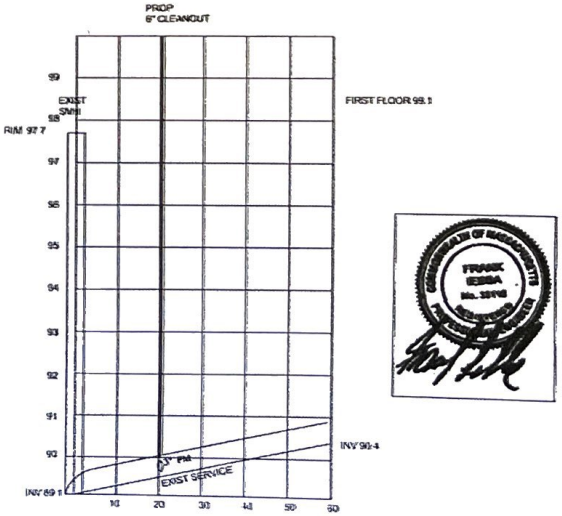
ANY TREE REMOVED FROM THE PROPERTY SHALL MEET THE CITY OF NEWTON TREE ORDINANCE.

NO EXCAVATION IS ALLOWED ON SHARE ANY CITY RIGHT OF WAY BETWEEN NOVEMBER 15 AND APRIL 15 IF AN EMERGENCY EXISTS OR THERE ARE EXTENUATING CIRCUMSTANCES. APPLICANT MAY SEEK PERMISSION FOR SUCH WORK FROM THE CITY ENGINEER. IF PERMISSION IS GRANTED, SPECIAL CONSTRUCTION STANDARDS WILL BE APPLIED. APPLICANT OR APPLICANT'S REPRESENTATIVE MUST CONTACT THE CITY OF NEWTON ENGINEERING DEPARTMENT PRIOR TO START CONSTRUCTION.



1. ALL INSTALLATION AND MATERIAL SPECIFICATIONS PER MASS. HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 AS AMENDED.
2. ALL EXPOSED BITUMINOUS CONCRETE IS TO BE TACKED PER MHD PRIOR TO NEW BITUMINOUS CONCRETE INSTALLATION.
3. ALL EXPOSED JOINTS ARE TO BE SEALED WITH TACK AND STONE DUST.
4. ANY TOP COURSE APPLIED AT A WIDTH OF 6" WIDE OR GREATER IS TO BE PLACED BY MACHINE/BOX SPREADER WHEN & AS DIRECTED BY THE CITY OF NEWTON.

TYPICAL TRENCH REPAIR & PAVEMENT SECTION DETAIL



PROPOSED WATER & SEWER

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NEWTON, MA

SCALE: 1 IN = 20 FT

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