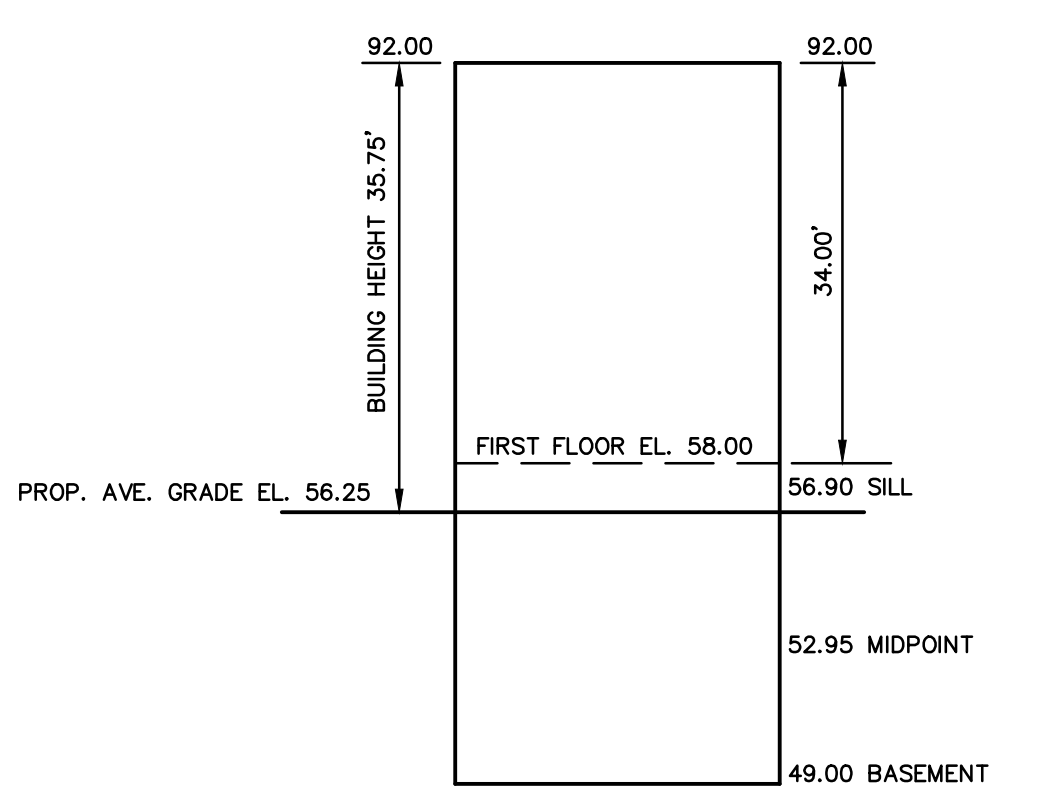
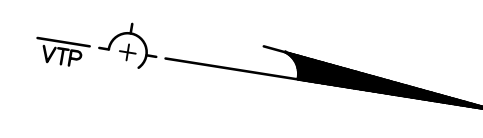
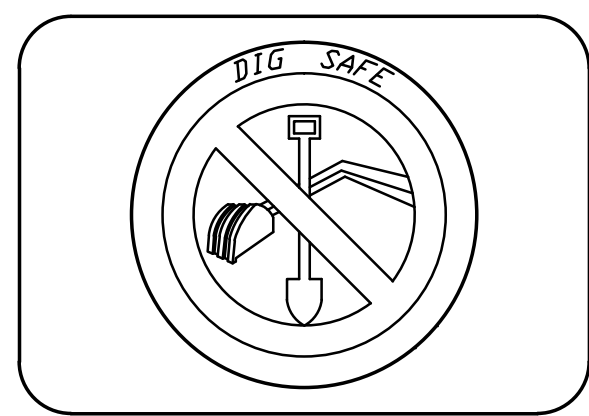


LEGEND

STORM SEWER	D	GAS VALVE	⊗
COMBINATION SEWER	CS	WATER VALVE	⊕
SANITARY SEWER	S	UTILITY POLE	⊙
WATER MAIN	W	DRAINAGE MANHOLE	⊗
OVERHEAD ELECTRIC	OE	SEWER MANHOLE	⊕
UNDER GROUND ELECTRIC	UE	FIRE HYDRANT	⊗
GAS MAIN	G	CATCH BASIN	⊙
CONTOUR	21	FIRE CALL BOX	⊗
BUILDING	▭	MAIL BOX	⊙
PICKET FENCE	▭	MONITORING WELL	⊙
CHAINLINK FENCE	▭	ELECTRIC MANHOLE	⊕
PROPERTY LINE	---	TOP OF STONE EL.	⊙
W/ BEARING DISTANCE	---	BOTTOM OF STONE EL.	⊙
CONIFEROUS TREE	⊙	TOP OF WALL EL.	⊙
DECIDUOUS TREE	⊙	BOTTOM OF WALL EL.	⊙
SIGN POST	⊙		
LIGHT POLE	⊙		



DIG SAFE
EXCAVATORS
BEFORE YOU DIG CONTACT THE DIG SAFE CENTER TO PREVENT DAMAGE TO TELEPHONE, GAS OR ELECTRIC UNDERGROUND FACILITIES. CALL TOLL FREE 1-888-332-4844. MASSACHUSETTS STATE LAW REQUIRES NOTIFICATION AT LEAST THREE BUSINESS DAYS BEFORE YOU START DIGGING OPERATIONS. IN AN EMERGENCY, CALL IMMEDIATELY.



PROPOSED BUILDING HEIGHT
NOT TO SCALE

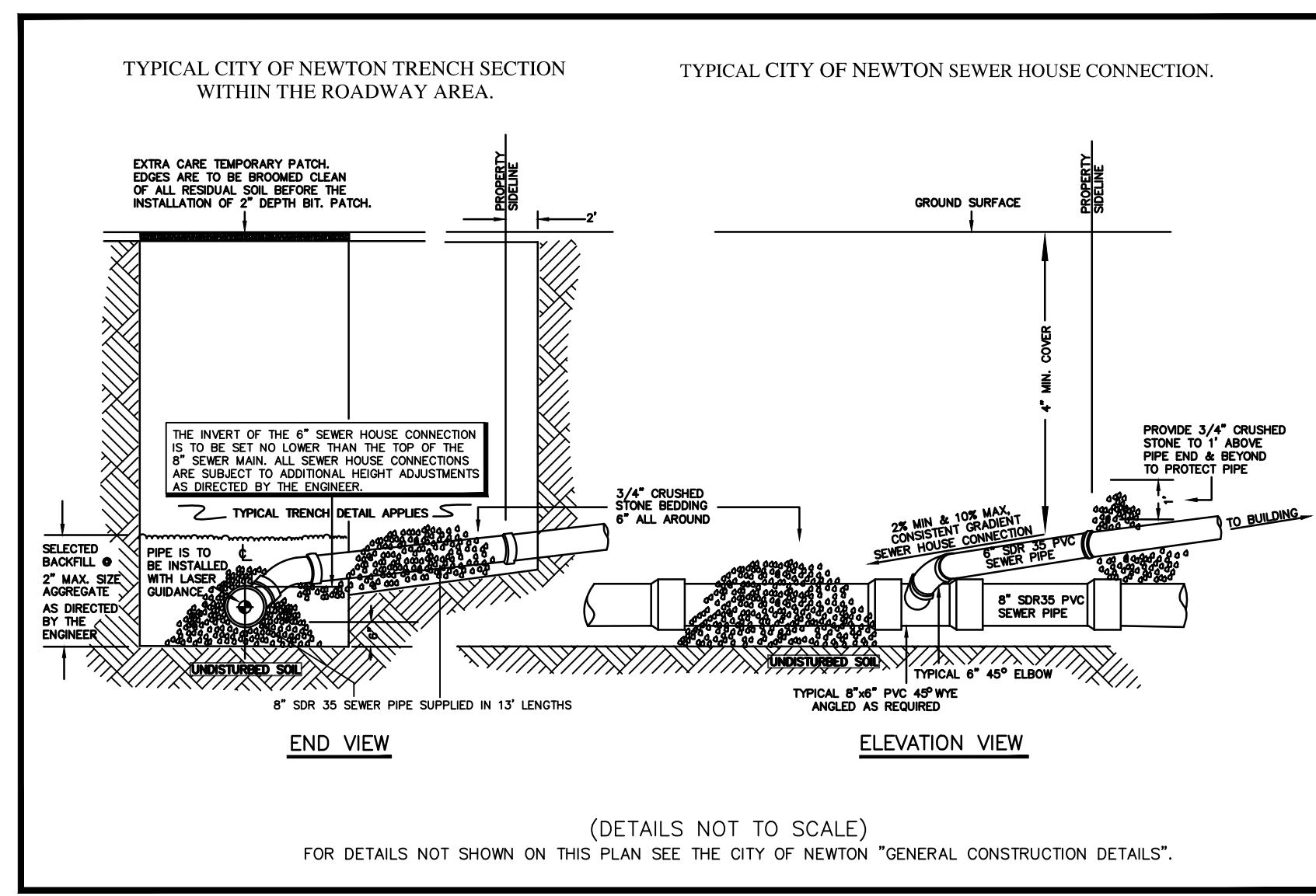
Address: #429 Cherry Street

Length Weighted Mean Proposed Average Grade Calculation

Segment	A	B	C	D	E	F
	Length Of Segment in Feet	Height of High Point of Segment	Height of Low Point of Segment	E=(C+D)/2 Segment Height	F=BxE	
1	40.00	57.00	57.00	57.00	2280.00	Sq. Ft.
2	55.00	55.50	49.50	53.00	2915.00	Sq. Ft.
3	17.50	48.00	49.00	49.00	857.50	Sq. Ft.
4	19.17	57.00	57.00	57.00	1092.69	Sq. Ft.
5	16.67	57.20	57.20	57.20	953.52	Sq. Ft.
6	28.33	57.00	57.00	57.00	1500.81	Sq. Ft.
7	14.42	47.00	57.00	52.00	749.84	Sq. Ft.
8	6.00	57.00	57.00	57.00	342.00	Sq. Ft.
9	25.90	57.00	57.00	57.00	1476.30	Sq. Ft.
10	6.00	57.50	57.50	57.50	345.00	Sq. Ft.
11	18.67	57.50	57.50	57.50	1073.53	Sq. Ft.
12	17.33	56.50	56.50	56.50	979.15	Sq. Ft.
13	6.00	58.00	58.00	58.00	348.00	Sq. Ft.
14	9.00	58.00	58.00	58.00	522.00	Sq. Ft.
15	25.67	58.00	58.00	58.00	1488.86	Sq. Ft.
16	10.33	58.00	58.00	58.00	599.14	Sq. Ft.
17	43.67	58.00	58.00	58.00	2532.86	Sq. Ft.
18	10.33	58.00	58.00	58.00	599.14	Sq. Ft.
19	13.00	58.00	58.00	58.00	754.00	Sq. Ft.
20	18.30	58.00	57.00	57.50	1052.25	Sq. Ft.
Total	399.29				22461.58	Sq. Ft.

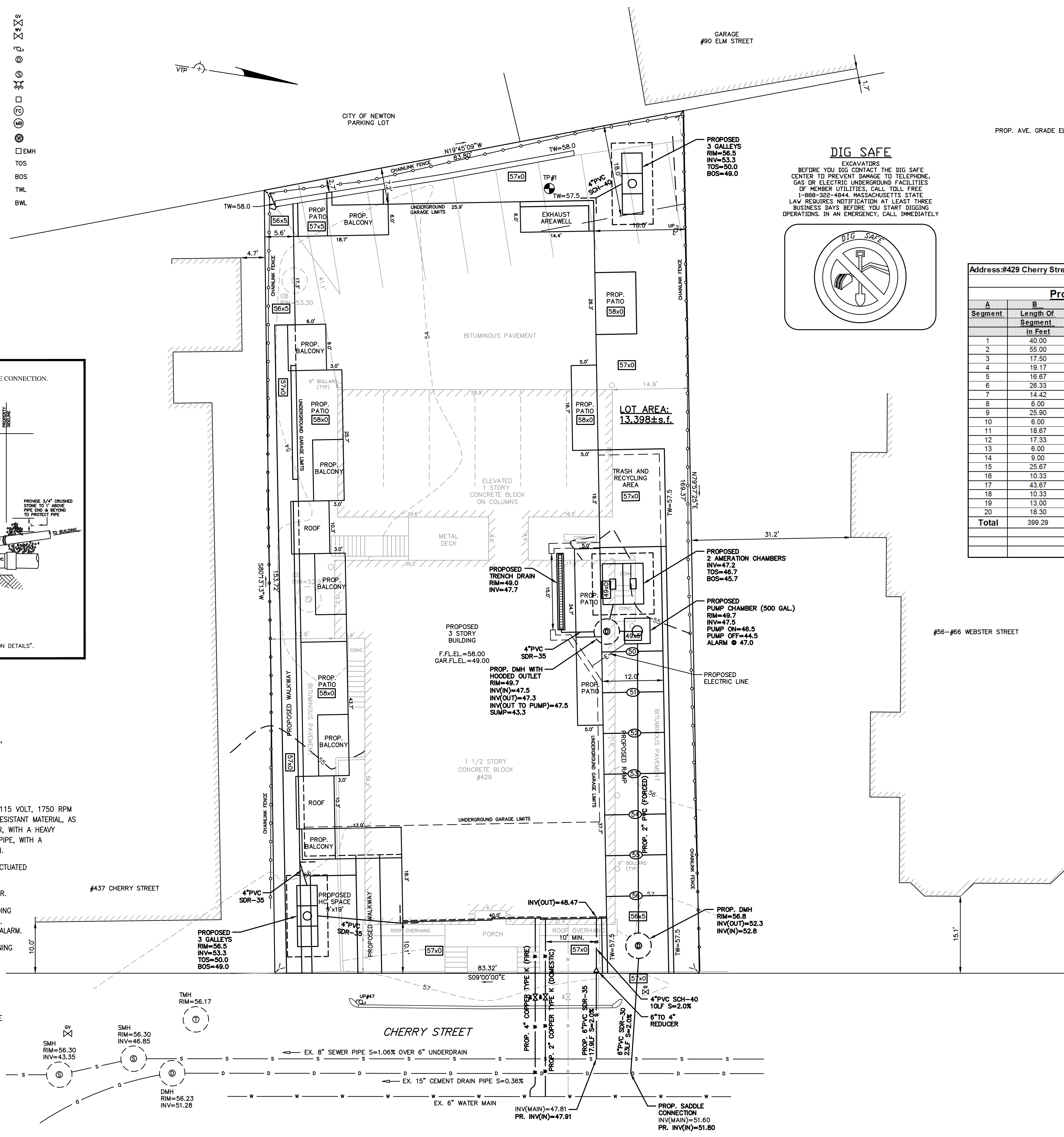
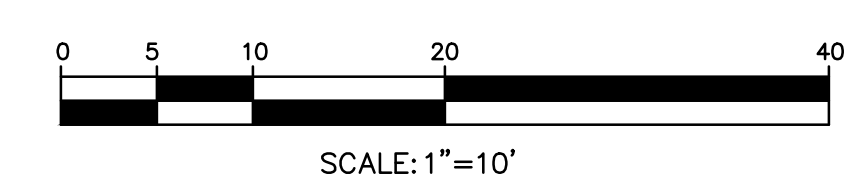
Total Column F / Total Column B = Average Grade

Average Grade: 56.25'



PUMP CHAMBER SPECIFICATIONS

- 1) THE PUMP CHAMBER SHALL BE A 500 GALLON CAPACITY, HEAVY DUTY (H2O), COMMERCIAL TANK AS MANUFACTURED BY SHEA CONCRETE, LAMARRE CONCRETE PRODUCTS, WACHUSETT CONCRETE OR EQUAL, WITH THE FOLLOWING SPECIFICATIONS
 CONCRETE MAXIMUM STRENGTH - 4,000 P.S.I. @ 28 DAYS
 STEEL REINFORCEMENT - 6" x 6" x 10 GA. STEEL WIRE MESH
 CONSTRUCTION JOINT - ACMELIGHT SEALANT BETWEEN JOINTS
- 2) THE PUMP SHALL BE A BARNES MODEL- SE-411, NON-CLOG SEWAGE PUMP (OR EQUAL), 0.4 H.P., 115 VOLT, 1750 RPM 60 HZ., SINGLE PHASE, HEAVY DUTY, HIGH CAPACITY, SUBMERSIBLE PUMP CONSTRUCTED OF CORROSION RESISTANT MATERIAL, AS SUPPLIED BY THE DRIP SYSTEM DISTRIBUTOR. THE PUMP SHALL HAVE AN OIL-FILLED BALL BEARING MOTOR, WITH A HEAVY DUTY MOTOR COVER AND PUMP CASE, AND A NON-CLOG IMPELLER. THEY SHALL HAVE A 2" DISCHARGE PIPE, WITH A QUICK DISCONNECT ASSEMBLY, AND SHALL PUMP 70 GPM AT A TOTAL DYNAMIC HEAD (TDH) OF 15' (FEET).
- 3) THE CONTROL PANEL SHALL BE PROVIDED BY THE PUMP MANUFACTURER AND SHALL HAVE A FLOAT ACTUATED LEVEL CONTROL (3 FLOATS REQ'D.) SYSTEM FOR ON, OFF AND HIGH WATER ALARM FUNCTIONS. IT SHALL INCLUDE A RED ALARM LIGHT AND BUZZER ALARM FOR THE HIGH WATER ALARM. THE CONTROLLER SHALL BE MOUNTED IN THE BUILDING BASEMENT, IN AN AREA DESIGNATED BY THE OWNER.
- 4) THE CONTRACTOR SHALL INSTALL THE CONTROL PANEL PROVIDED BY THE PUMP MANUFACTURER, INCLUDING THE SERVICES OF AN ELECTRICIAN TO WIRE THE CONTROL PANEL TO THE EXISTING BUILDING BREAKER PANEL. THE PUMP CONTROLS WILL REQUIRE TWO SEPARATE BREAKERS IN THE EXISTING PANEL FOR THE PUMP & ALARM.
- 5) THE PUMP ACCESS COVER SHALL BE A HEAVY DUTY MANHOLE FRAME AND COVER WITH A CLEAR OPENING OF 24" INCHES, AS MANUFACTURED BY THE LEBARON FOUNDRY COMPANY OR EQUAL.
- 6) PUMP WIRES FROM THE CONTROLLER TO THE PUMP STATION SHALL BE PLACED IN SMOOTH WALL PVC CONDUIT - TYPE DB-120 CONFORMING TO ASTM F 512.
- 7) THE PUMP SEQUENCE AND INSTALLATION SHALL COMPLY WITH REGULATION 9 OF TITLE V.
- 8) ALL PIPING WITHIN THE PUMP CHAMBER SHALL BE SCHEDULED 40 PVC PIPE. ALL FITTINGS SHALL BE TRUE UNION, PVC PIPE FITTINGS.



TESTPIT LOG
TESTPIT #1
0'-5" ASPHALT
5"-24" FILL
24"-84" MED SAND WITH GRAVEL + COBBLES
WATER @ 72" (PERCHED)
NO REFUSAL
PERC < 2 MPI

EXISTING IMPERVIOUS AREA: 12,450 s.f.
PROPOSED IMPERVIOUS AREA: 9,762 s.f.
TOTAL INCREASE IN IMPERVIOUS AREA: -2,688 s.f.

ZONING CHART
NEWTON MASSACHUSETTS

REGULATION	REQUIRED	EXISTING	PROPOSED
LOT AREA	10,000 S.F.	13,398 S.F.	N/C
LOT FRONTAGE	80.0'	83.32'	N/C
FRONT SETBACK	AVG.1	7.3'	10.3'
SIDE SETBACK (RES.)	1/2 BH2	-	18.0'
SIDE SETBACK (ABUT.)	4.7'	12.6'	5.6'
REAR SETBACK	15.0'	41.1'	7.2' / 2.7'
BUILDING HEIGHT	24.0' / 36.0'	-	34.75'
AVERAGE GRADE	N/A	-	56.25'

*SPECIAL PERMIT REQUIRED

TOPOGRAPHIC SITE PLAN
NEWTON, MASSACHUSETTS
SHOWING PROPOSED CONDITIONS AT
#429 CHERRY STREET
SCALE: 1in.=10ft. DATE: DECEMBER 6, 2011
REVISED: JANUARY 31, 2012
PROJECT: 211167



LAND SURVEYORS - CIVIL ENGINEERS. 132
ADAMS STREET 2ND FLOOR SUITE 3
NEWTON, MA 02458
(617) 332-8271
SHEET 1 OF 2