NORTH

C H U R C H S T R E E T
(PUBLIC - VARIABLE WIDTH)

S 71°34'22" E 216.69'

S 72°07'02" E 121.42'

S 76°02'02" E 82.89'

S 77°57'02" E 139.81'

N 13°09'08" E 215.53'

N 10°42'28" E 356.00'

N 14°15'28" E 195.21'

N 9°30'32" W 69.88'

N 79°13'22" W 207.11'

N 79°03'15" W 189.67'

S 10°56'45" W 157.84'

N 79°03'15" W 386.85'

S C H O O L S T R E E T
(PUBLIC - VARIABLE WIDTH)

N/F THE CARLISLE CONGREGATIONAL CHURCH 1259/482 3567/159

N/F CONGREGATIONAL CHURCH

"WELL ZONE"

100' ZONE 1 RADIUS

APPROXIMATE LOCATION OF EXISTING CARLISLE CONGREGATIONAL CHURCH WELL P.W.S.#3051006

PROVIDENCE A.D. RESIDENCE

HISTORIC DISTRICT BOUNDARY

"C" DISTRICT BOUNDARY

EXISTING DWELLING 50 SCHOOL ST

GARAGE

GARAGE

EXISTING DWELLING 74 SCHOOL ST.

EXISTING DWELLING 88 SCHOOL ST

EXISTING RESIDENTIAL DRINKING WATER WELL

EXISTING RESIDENTIAL DRINKING WATER WELL

BENCHMARK BASAL IN UP ELEV.=231.06

BENCHMARK BASAL IN UP ELEV.=231.57

BENCHMARK BASAL IN UP ELEV.=240.82

BENCHMARK BASAL IN UP ELEV.=239.45

BENCHMARK BASAL IN UP ELEV.=239.10

REPLACE EX. DRAINAGE PIPE WITH 15" HDPE- REFER TO DRAINAGE SCHEDULE

REPLACE EX. CATCH BASIN WITH DRAINAGE MANHOLE REFER TO DRAINAGE SCHEDULE

REPLACE EX. CATCH BASIN WITH DRAINAGE MANHOLE REFER TO DRAINAGE SCHEDULE

EX. CB#1

C.T.E. 15" HDPE

15" HDPE

12" HDPE

DMH#2

CB#6

3 C0.2

CB#5

3 C0.2

DMH#3

15" HDPE

TYP.- RIP-RAP AT INLET & OUTLET

INV.=226.85

INV.=227.00

8" PVC

CB#4

8 C0.3

INV.(6")=231.29
INV.(12")=229.37

15" HDPE

DMH#6

12" HDPE

6" PVC

INV.=231.76
INV.=233.16 (FD)

DMH#7

DMH#5

TYP.- RIP-RAP CONSISTING OF STONE NO LARGER THAN 8" SET IN MIN. 6" GRAVEL OR STONE BASE AND CHINKED WITH BROKEN STONE 4" TO 6" IN SIZE

EX SMH#1 TO REMAIN ACTIVE DURING THE CONSTRUCTION OF THE ADDITION

PLUG EX. OUTLET AT EXISTING SMH

TYP.- RETAINING WALL FOOTING DRAIN. REFER TO LANDSCAPE DETAILS

2 C0.2 TYP.- DRAIN MANHOLE

18" HDPE OUTLET CONTROL STRUCTURE #1

24" HDPE HEADER PIPE

2 C0.3

3 C0.2 4 C0.2 31'(W) x 52.7' (L) SUBSURFACE DETENTION BED #1 9 LATERALS

DMH#4

3' C0.2 TYP(9) INSPECTION & CLEANOUT ACCESS PORT

16" D.I.

24" HDPE HEADER PIPE

15" HDPE

DMH#2

DMH#1

12" HDPE

10 C0.2 DMH#3 W/SLUICE GATE

WATER QUALITY STRUCTURE (WQS) #1

1 C0.3

9 C0.3 BIORETENTION GARDEN

3 C0.2 11 C0.3 CB(DG)#2

6 C0.3 WATER QUALITY SWALE

4" PERF. PVC

4" PERF. PVC

7 C0.3 RIP RAP SPILLWAY ELEV.=225.33

6 C0.3 WATER QUALITY SWALE

EXISTING RESIDENTIAL DRINKING WATER WELL

TYP.- RETAINING WALL FOOTING DRAIN. REFER TO LANDSCAPE DETAILS INV.(12")=229.38 INV.(6")=229.88

INV.(12")=228.66 INV.(6")=229.16

FIRE DEPARTMENT OUTLET CONNECTION- REFER TO FP DRAWINGS

FIRE DEPARTMENT OUTLET CONNECTION- REFER TO FP DRAWINGS

TYP.- LEACHING PIT (LP)#1

3 C0.3

CB#3

8 C0.3

4" HDPE

LP#2

INV.=233.32

8" PVC

FD

8" PVC

6" PVC

DS#11

DS#12

DS#10

GCO

DS#9

INV.=234.27 (FD)

12" HDPE

8" PVC

INV.=231.51

RD#1

INV.=234.27 (FD)

BLDG FOUNDATION DRAIN INV.=232.51

INV.=230.90

INV.=230.80

6" C.I.

PROPOSED ADDITION F.F.E.=239.51

CAP EX. 4" CAST IRON PIPE

FIRE DEPARTMENT CONNECTION

C.T.E. 4" SEWER INV.=232.0±

DS#6

DS#6A

GCO

DS#5

INV.=228.98

RD#2

INV.=236.46

INV.=238.00

4" C.I.

DS#3

DS#2

DS#1

8" C.I.

10" C.I.

INV.=235.83 (FD)

INV.=235.67 (FD)

8" PVC

SMH#4

SMH#3

INV.=233.05

INV.=233.37

INV.=237.50

GCO

4" PVC

4" PVC

C.T.E. 4" SEWER INV.=231.0±

INV.(6")=234.08
INV.(12")=233.58

CB#1

CAP EX. 6" CLAY PIPE

12" HDPE

SMH#1

C.T.E. EX. 6" SEWER INV.=234.2±

TYP.- HVAC HOT WATER SUPPLY & RETURN- REFER TO MECH. DRAWINGS

6" SCH 80 PVC

SMH#2

CAP EX. 6" CLAY PIPE

C.T.E. EX. 6" SEWER INV.=235.9±

8" SCH 80 PVC

INV.=226.60

8" PVC

EX SMH#2

WILKIN'S WELL P.W.S.#3051004-01G

C.T.E. CONDUIT STUBS- REFER TO ELEC DWGs

AT TIME OF CISTERN INSTALLATION: REPLACE 40' SECTION OF 4" VC SEWER WITH NEW 4" PVC. MATCH EXISTING SLOPE. CONTRACTOR TO FIELD VERIFY INVERTS

WYE CONNECT NEW 4" PVC TO EX. 6" VC SEWER. INV(4" PVC)=239.16 CONTRACTOR TO FIELD VERIFY ELEV. OF 6" VC AND REPORT TO ENGINEER PRIOR TO PROCEEDING WITH WORK

10'

10'

4" PVC

4" PVC

INV.=240.92

11 C0.2 STONE TRENCH DRAIN

INV.=241.18

INV.(4")=240.09

C.T.E.= DRAIN INLET INV.=239.10

INV.(4" PVC)=240.16
INV.(6" VC)=239.36

8" CLDI

6" CLDI

PIV

GCO

TYP

FDC

12" CLDI

5" CLDI

SL

24.23'

6" CLDI

12" CLDI

UNSUPERVISED POST INDICATOR VALVE

CAP 6" CLDI BEYOND PAVED WALKWAY

2" WATER SERVICE CAPPED AT EXT. OF FOUNDATION

TYP(2)- FIRE PROTECTION CISTERNS. REFER TO DWG FP0.2 FOR DETAILS

(2)8" VENTS

WELL FOR FIRE PROTECTION CISTERNS BY SECTION 33 20 00

12" CLDI

SIAMESE FILLER

243.86

6" SUCTION

AREA OF AMENDED SITE

SEE DRAWING FP0.2 FOR DETAILS OF CISTERNS

PUMP TEST HEADER

10 C0.1 TYP.(5)- PROTECTIVE BOLLARDS

WELL CONTROL PANEL MOUNTED TO THE EXT. OF THE BRICK BUILDING

9 C0.1 TYP.(2)- PROTECTIVE BOLLARDS

PROVIDE PAVEMENT PATCH. BACKFILL TRENCH WITH FLOWABLE FILL WITHIN TOWN RIGHT OF WAY.

1 C1.1 SITE UTILITY PLAN
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

CATCH BASINS/DRAIN INLETS

STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. OUT ELEV.
CB #1	238.60	———	235.00 (DMH#2)
CB #2	231.50	———	228.50 (DMH#2)
CB #3	233.80	———	230.80 (LP#1)
CB #4	233.50	———	230.00 (DMH#6)
CB #5	217.60	———	212.80 (DMH#9)
CB #6	215.50	———	212.50 (DMH#9)
EX CB#1	EXISTING	211.50 (DMH#9)	211.4± (EXISTING)

WATER QUALITY STRUCTURES

STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. OUT ELEV.
WQS#1	VARIES	228.07 (DMH#2)	227.82 (DMH#3)

DRAINAGE MANHOLES

STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.	INV. OUT ELEV.
DMH #1	232.74	228.33 (ALL)	———	———	228.23 (DMH#2)	227.62 (WQS#1)
DMH #2	232.43	228.12 (ALL)	———	———	228.12 (DMH#3)	
DMH #3	232.36	228.09 (DMH#2)	227.77 (WQS#2)	———	227.77 (SDB#1)	
DMH #4	232.94	225.00 (OCS#1)	———	———	224.90 (DMH#5)	
DMH #5	233.79	224.54 (DMH#4)	228.67 (DMH#6)	———	224.54 (DMH#7)	
DMH #6	234.11	229.19 (CB#4)	230.79 (DS#2-7)	———	229.09 (DMH#5)	
DMH #7	229.00	225.00 (LP#2)	223.92 (DMH#5)	———	219.82 (DMH#8)	
DMH #8	221.15	217.07 (DMH#7)	———	———	213.91 (EX 12"RCP)	
DMH #9	215.86	212.38 (DMH#8)	212.38 (CB#5&6)	———	212.23 (EX CB#1)	

LEACHING PITS

STRUCTURE #	RIM ELEV.	BOTT. OF GRAVEL BED	BOTT. OF STRUCT	TOP OF STRUCT.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.	COVER/FRAME MODEL
LP #1	233.98	227.19	227.86	232.36	230.70 (CB#3)	231.03 DS#11-13, FD	230.70 (ALL)	LEBARON LA-248
LP #2	234.21	227.19	227.86	232.36	230.70 (ALL)	———	230.60 (ALL)	LEBARON LA-248

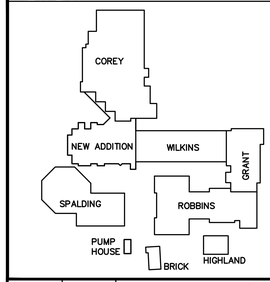
SEPTIC/SEWER STRUCTURES

STRUCTURE #	RIM ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. IN ELEV.	INV. OUT ELEV.
SMH #1	241.32	234.2± (EX 6" VC)	———	———	234.10
SMH #2	241.46	233.41 (SMH#1)	235.9± (EX 6" VC)	———	231.50
SMH #3	238.99	230.35 (EX BLDG)	230.35 (SMH#4)	230.02 (SMH#2)	229.92
SMH #4	236.28	232.0± (EX BLDG)	———	———	231.90
EX SMH #1	234.83	231.7± (EX BLDG)	———	———	231.65
EX SMH #2	230.66	225.60 (BLDG)	———	———	225.5

DOWNSPOUTS

STRUCTURE #	PROP ELEV.	INV. OUT ELEV.
DS #1	239.42	236.07
DS #2	239.51	236.49
DS #3	239.51	236.24
DS #4	239.20	236.05
DS #5	236.35	233.65
DS #6	236.84	233.20
DS #6A	236.84	233.20
DS #7	236.00	233.00
DS #8	234.55	232.00
DS #9	234.60	231.90
DS #10	238.33	235.63
DS #11	236.22	233.50
DS #12	236.50	233.67
DS #13	236.22	233.52

KEYPLAN



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CONSTRUCTION PROGRESS SET
11-22-2010

Carlisle Public School
Carlisle, MA
Site Utility Plan

SCALE: As indicated
DRAWN BY: NCK
CHECKED BY: CMG

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
C1.1

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