

# CITY OF CAMBRIDGE, MASSACHUSETTS CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT

CONFORMED SET  
JANUARY 27, 2014  
FILE NO. 6228 CWSRF-3819

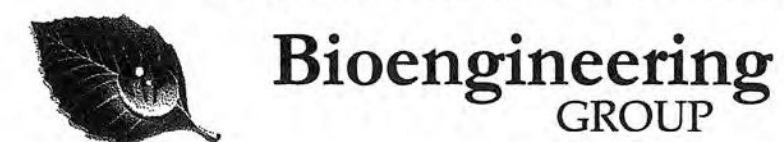
PREPARED FOR:



PREPARED BY PROJECT DESIGN TEAM:



**BUILDING A BETTER WORLD**

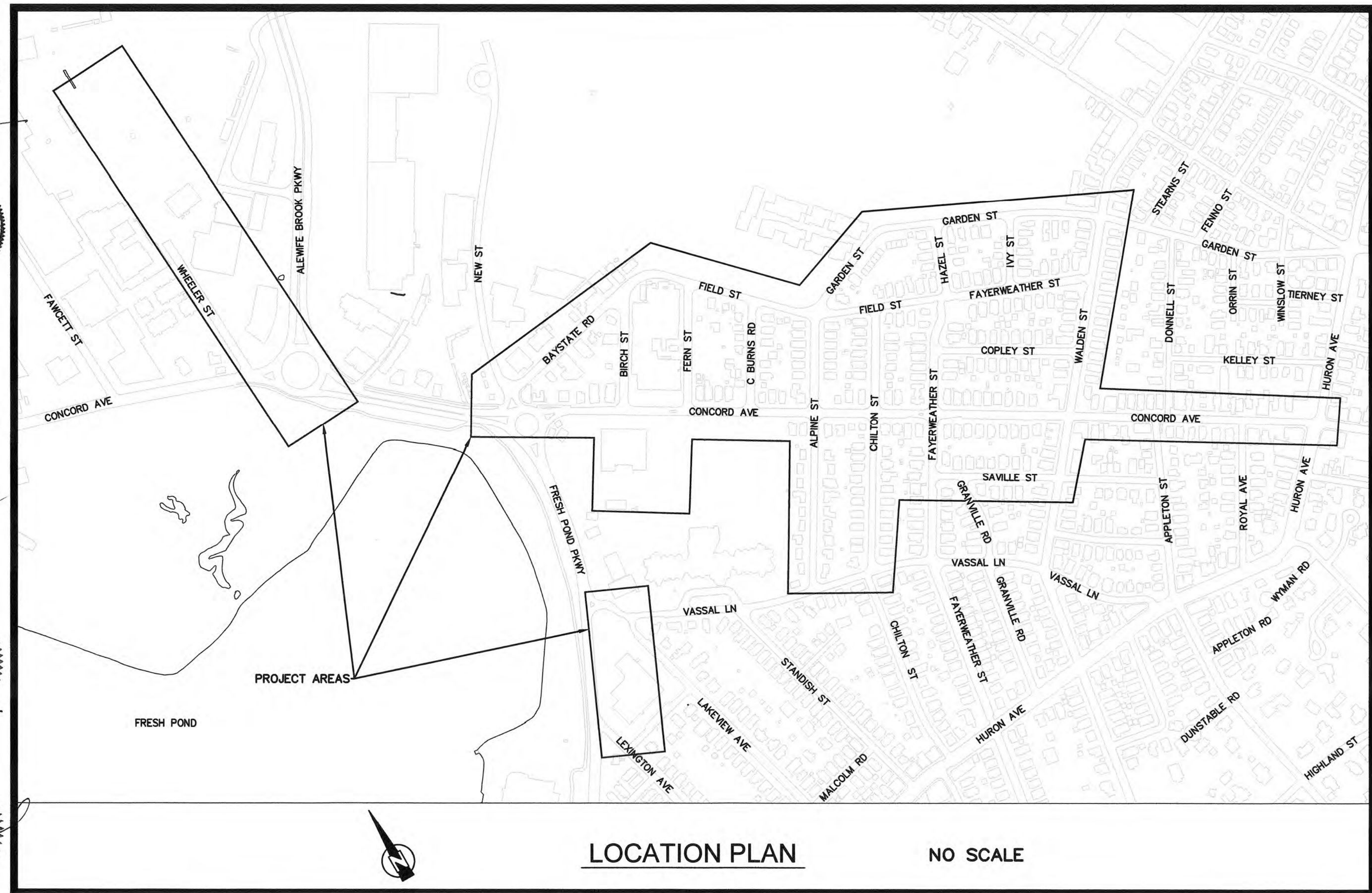


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LOCATION PLAN

NO SCALE

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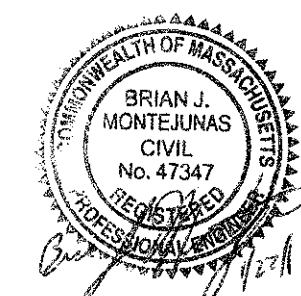
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CONFIRMED SET

CAD FILE: G:\clients\cambridge\140202266-01-A - Concord Ave (Contract 9) Drawings\General\Index Sheet.dwg LAYOUT: Sheet Index 1 of 2 PLOTTED: 2/13/2014 10:40 AM BY: Kyle Ingalls



Scale	AS NOTED
Date	FEBRUARY 2014
Job No.	20120266.001A
Designed by	TAL/JRB/FMM
Drawn by	KJL/DRM/BMS/DRB
Checked by	CMC/TJR
Approved by	BJM
No.	
Description	
Date	
REVISIONS	



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT
Drawing	GENERAL SHEET INDEX 1 OF 2

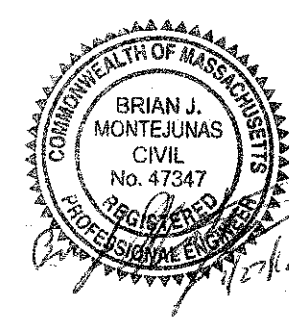
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File No.	6228



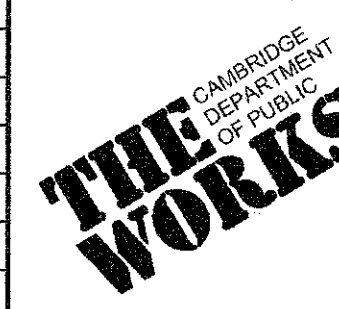
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ROADWAY	GRADING PLAN & PROFILE CHILTON STREET STA 1256+33 TO 1260+48	R-83
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ROADWAY	GRADING PLAN & PROFILE IVY STREET STA 4200+00 TO 4202+99	R-113
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TMP	TRAFFIC MANAGEMENT PLAN FOR HYDRAULIC MODIFCATIONS AREA III & IV	TMP-2
TMP	TRAFFIC MANAGEMENT PLAN FOR HYDRAULIC MODIFCATIONS AREA I	TMP-3

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 BY: Kyle Ingalls

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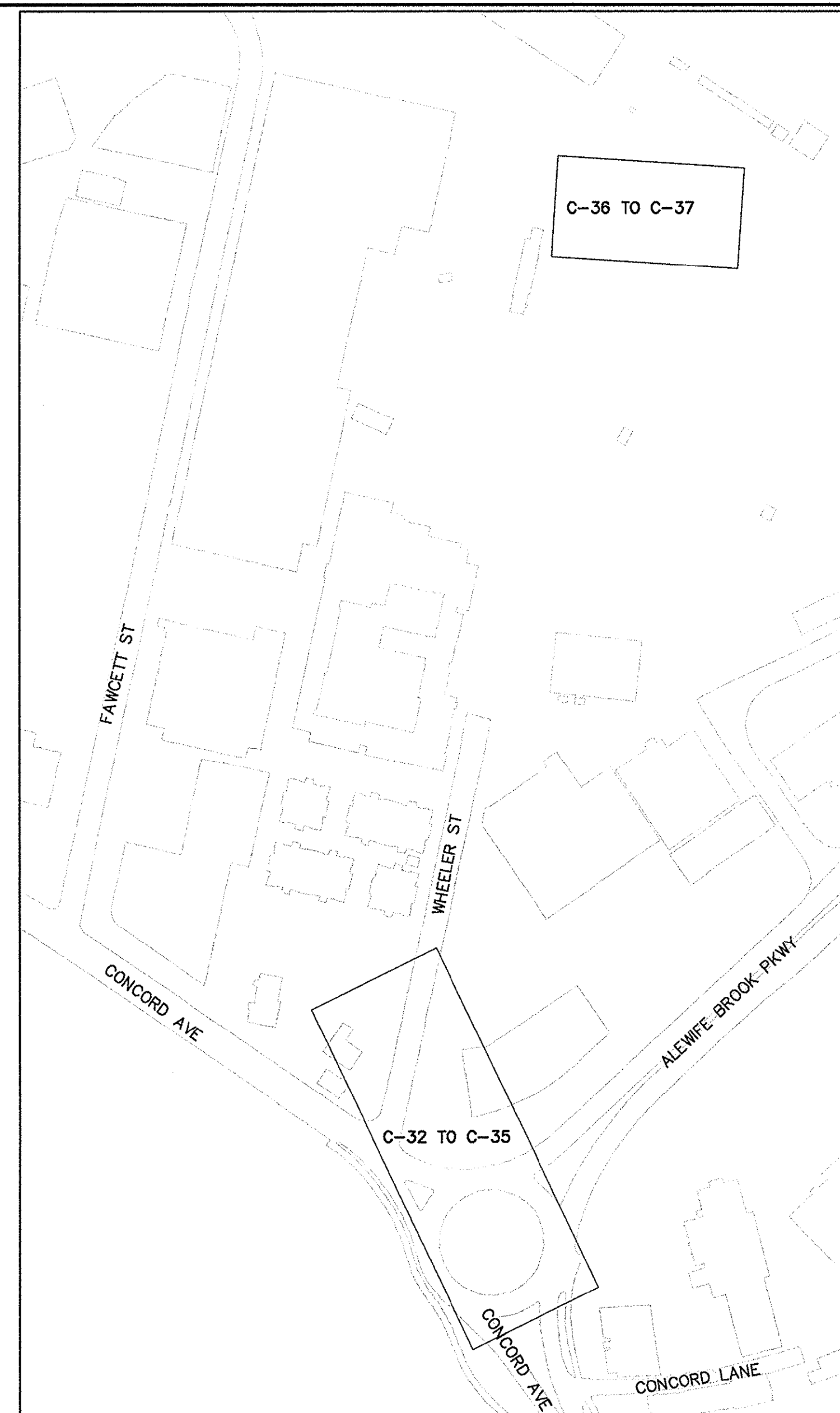
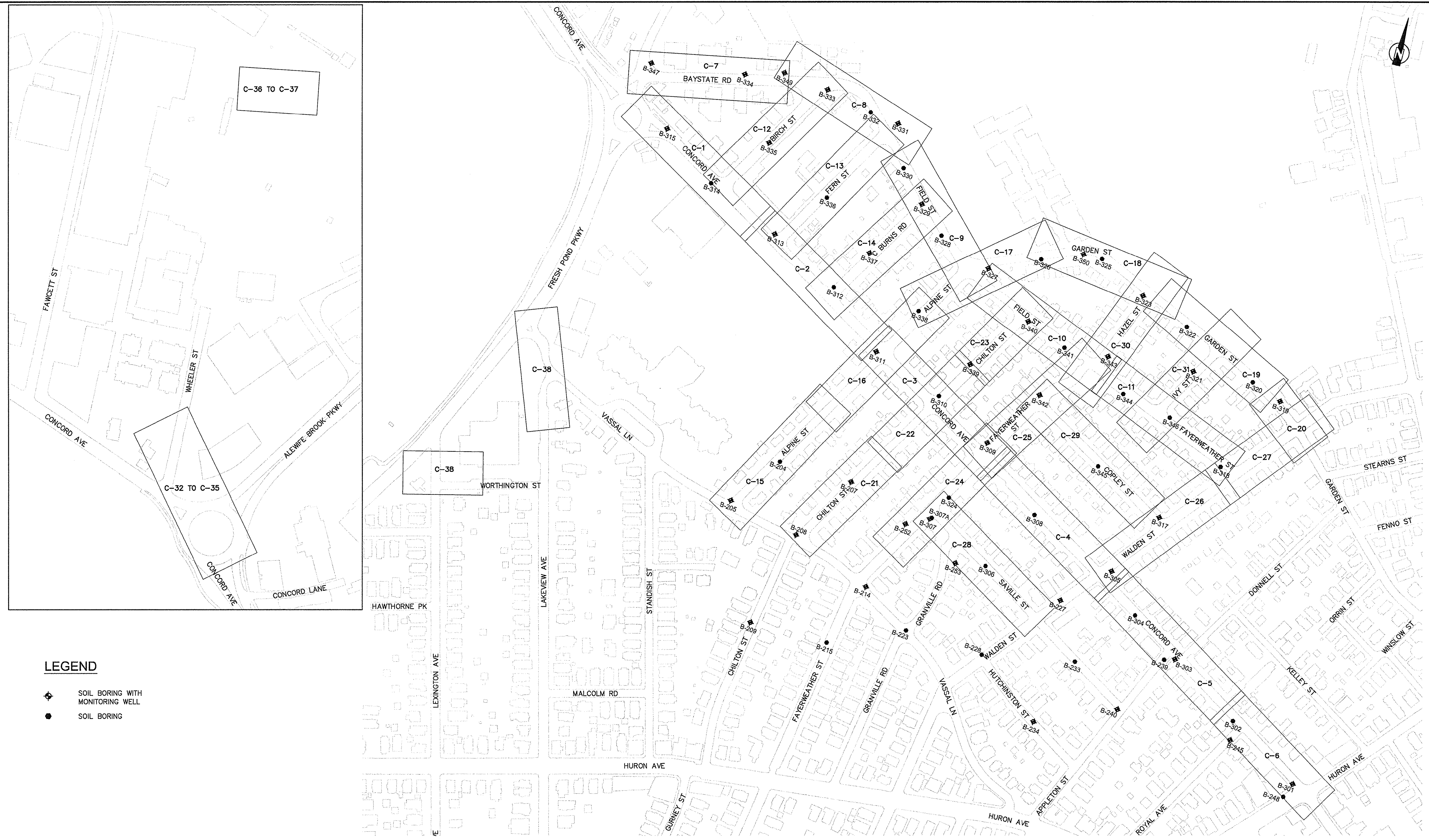


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Job No.	20120256.001A			
Designed by	TAL/JRB/FMM			
Drawn by	KJL/DRM/BMS/DRB			
Checked by	CMC/TJR	No.	Description	Date
Approved by	BJM		REVISIONS	





Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT
Drawing	GENERAL SHEET INDEX 2 OF 2

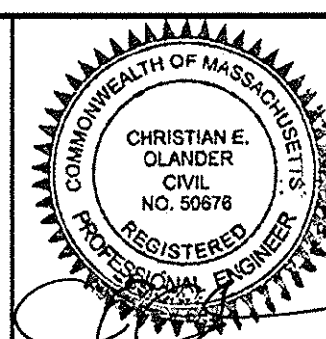
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**LEGEND**

-  SOIL BORING WITH MONITORING WELL
-  SOIL BORING

CONFORMED SET



Scale	NO SCALE
Date	JANUARY 27, 2014
Job No.	20120256.001A
Designed by	ZSH
Drawn by	NFT
Checked by	AML
Approved by	EO



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT
Drawing	GENERAL CIVIL KEYPLAN AND BORING LOCATIONS

Sheet	G-4
File No.	

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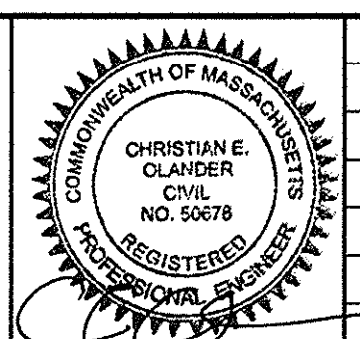


**BENCHMARK NOTES:**

1. THIS PLAN WAS PREPARED FROM AN ACTUAL ON THE GROUND FIELD SURVEY CONDUCTED BY WSP SELLS FROM SEPTEMBER 7, 2012 TO JANUARY 3, 2013 AND JULY 15, 2013.
2. THE HORIZONTAL DATUM SHOWN REFERENCES THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM NAD83.
3. THE VERTICAL DATUM SHOWN HEREON REFERENCES CAMBRIDGE CITY DATUM, UNLESS OTHERWISE STATED.

CONFORMED SET

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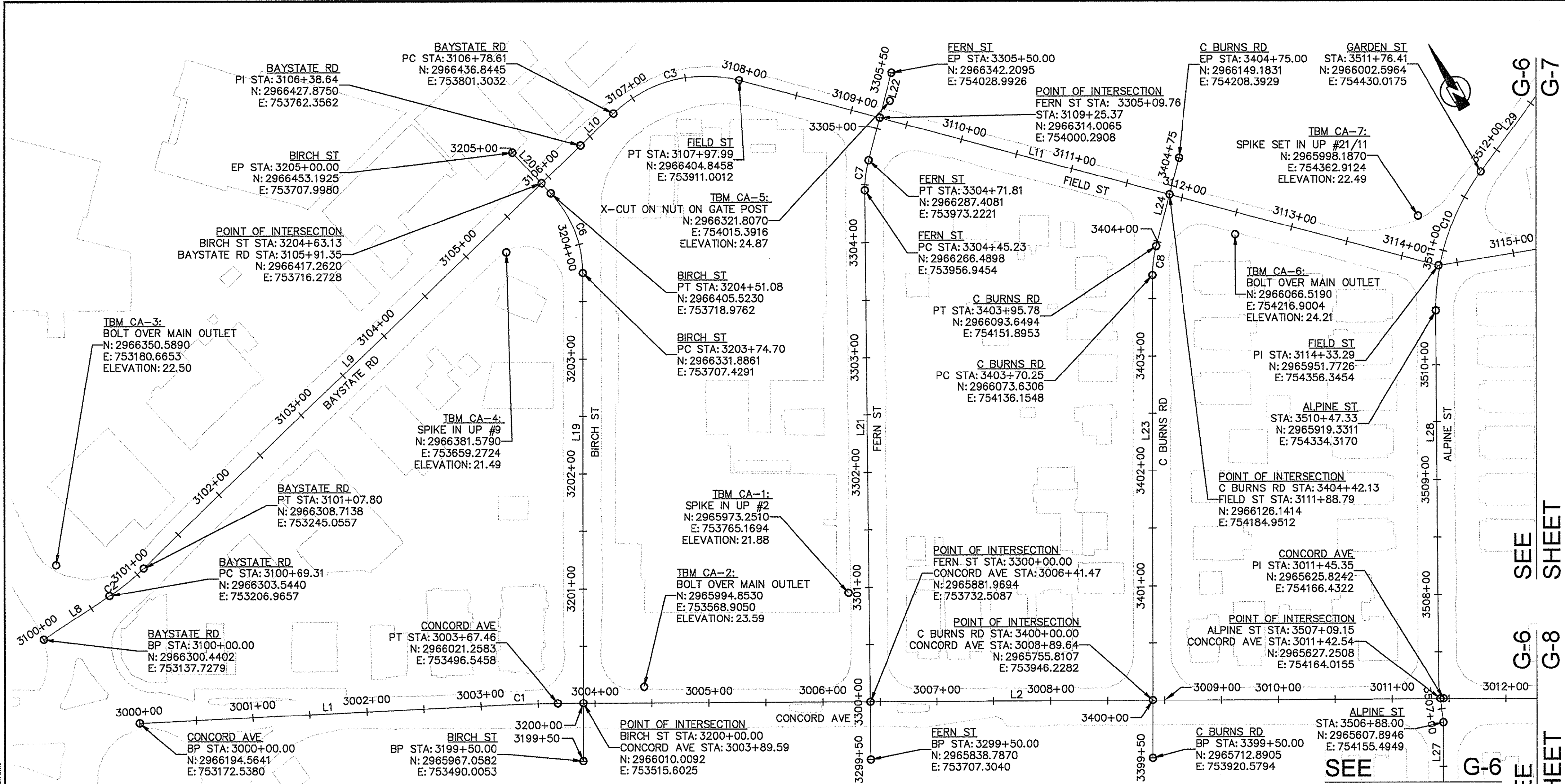
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Checked by	AML	No.	Description
Approved by	EO		REVISIONS



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT
Drawing	GENERAL CONSTRUCTION BASELINE KEY PLAN

Sheet	G-5
File No.	

PLOTTED: 1/29/2014 12:23 PM BY: msk.tlm  
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**PLAN NO. 1**

CONCORD AVE				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
CONCORD AVE STA: 3000+00 N: 2966194.5641 E: 753172.5380	L1	S62° 00' 54.56"E	322.63	CONCORD AVE STA: 3003+22.63 N: 2966038.0963 E: 753454.7449
	C1	R=1000.00	44.83	CONCORD AVE STA: 3003+67.46 N: 2966021.2583 E: 753486.5458
	L2	S59° 26' 47.87"E	777.89	CONCORD AVE STA: 3011+45.35 N: 2965625.8242 E: 754166.4322

BAYSTATE RD				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
BAYSTATE RD STA: 3100+00 N: 2966300.4402 E: 753137.7279	L8	N87° 25' 59.67"E	69.31	BAYSTATE RD STA: 3100+69.31 N: 2966303.5440 E: 753206.9657
	C2	R=212.00	38.49	BAYSTATE RD STA: 3101+07.80 N: 2966308.7138 E: 753245.0557
	L9	N77° 01' 51.20"E	530.85	BAYSTATE RD STA: 3106+38.64 N: 2966427.8750 E: 753762.3562
	L10	N77° 01' 51.20"E	39.97	BAYSTATE RD STA: 3106+78.61 N: 2966436.8445 E: 753801.3032
	C3	R=117.00	119.38	FIELD ST STA: 3107+97.99 N: 2966404.8458 E: 753911.0012

FIELD ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
FIELD ST STA: 3107+97.99 N: 2966404.8458 E: 753911.0012	L11	S44° 30' 25.57"E	635.30	FIELD ST STA: 3114+33.29 N: 2965951.7726 E: 754356.3454

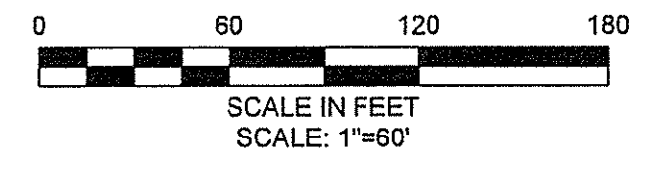
BIRCH ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
BIRCH ST STA: 3199+50.00 N: 2965967.0582 E: 753490.0053	L19	N30° 47' 36.07"E	424.70	BIRCH ST STA: 3203+74.70 N: 2966331.8861 E: 753707.4291
	C6	R=100.00	76.38	BIRCH ST STA: 3204+51.08 N: 2966405.5230 E: 753718.9762
	L20	N12° 58' 08.80"W	48.94	BIRCH ST STA: 3205+00.00 N: 2966453.1925 E: 753707.9980

FERN ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
FERN ST STA: 3299+50.00 N: 2965838.7870 E: 753707.3040	L21	N30° 16' 16.46"E	495.23	FERN ST STA: 3304+45.23 N: 2966266.4898 E: 753956.9454
	C7	R=100.00	26.58	FERN ST STA: 3304+71.81 N: 2966287.4081 E: 753973.2221
	L22	N45° 30' 07.77"E	78.19	FERN ST STA: 3305+50.00 N: 2966342.2095 E: 754028.9926

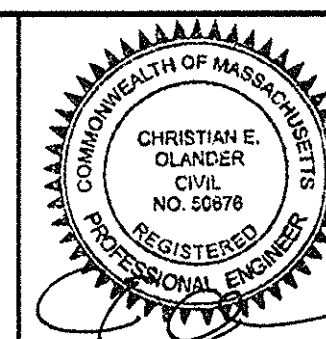
GARDEN ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
GARDEN ST STA: 21+76.41 N: 2966002.5964 E: 754430.0175	L29	N67° 27' 51.58"E	288.68	GARDEN ST STA: 24+65.09 N: 2966113.2340 E: 754696.6507

CORPORAL BURNS RD				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
C BURNS RD STA: 3399+50.00 N: 2965712.8905 E: 753920.5794	L23	N30° 51' 43.92"E	420.25	C BURNS RD STA: 3403+70.25 N: 2966073.6306 E: 754136.1548
	C8	R=100.00	25.47	C BURNS RD STA: 3403+95.78 N: 2966093.6494 E: 754151.8953
	L24	N45° 29' 34.43"E	79.22	C BURNS RD STA: 3404+75.00 N: 2966149.1831 E: 754208.3929

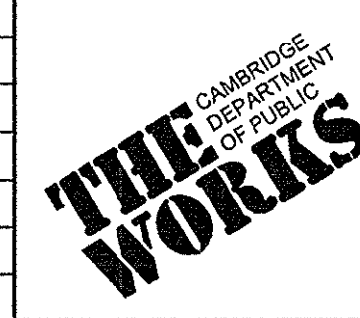
ALPINE ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
ALPINE ST STA: 3500+00.00 N: 2965011.8350 E: 753816.0209	L27	N23° 45' 32.41"E	33.25	ALPINE ST STA: 3506+88.00 N: 2965638.3269 E: 754168.8911
	L28	N30° 29' 06.45"E	326.08	ALPINE ST STA: 3510+47.33 N: 2965919.3311 E: 754334.3170
	C10	R=200.00	129.08	GARDEN ST STA: 3511+76.41 N: 2966002.5964 E: 754430.0175



CONFORMED SET



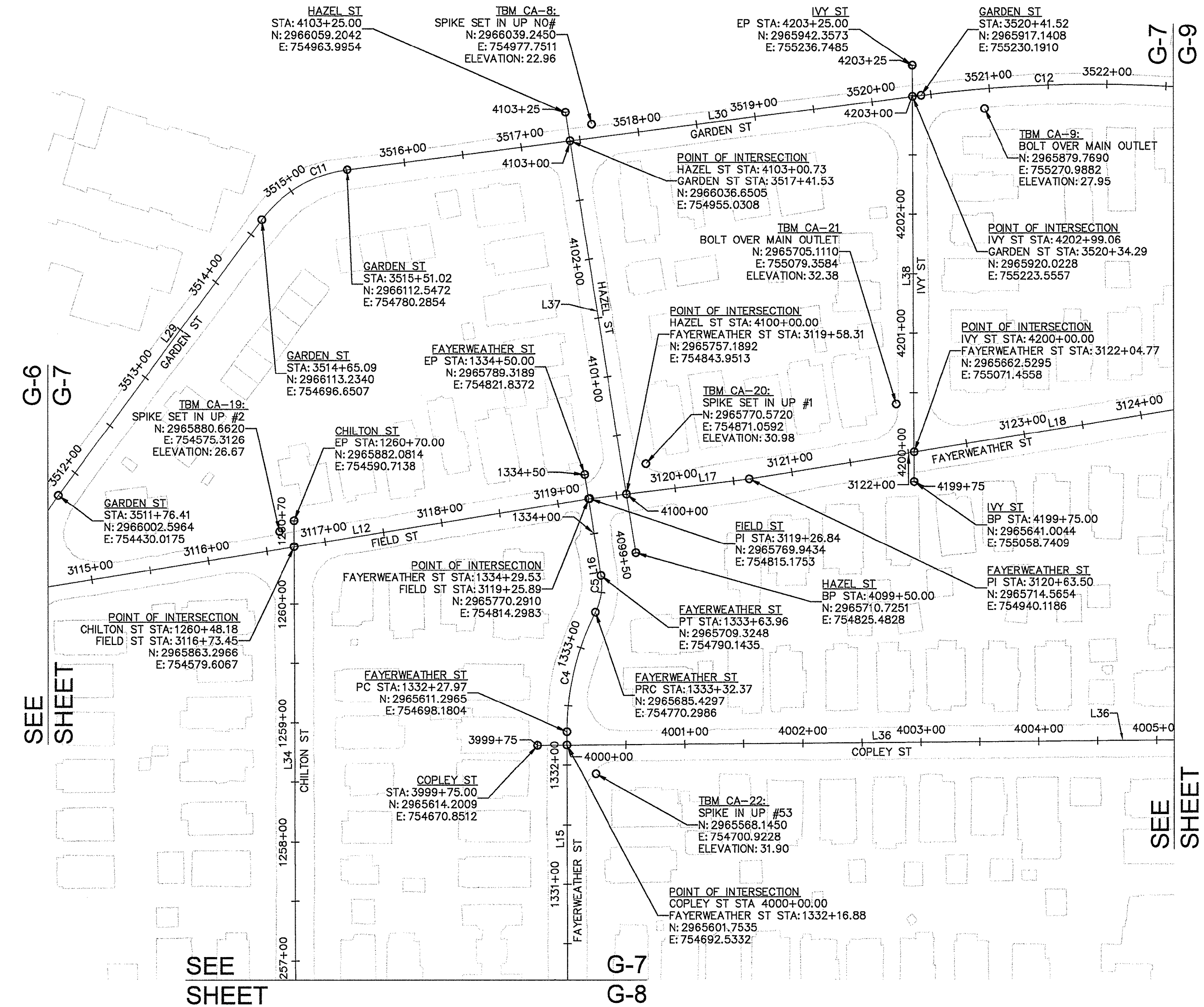
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Designed by	ZSH		
Drawn by	NFT		
Checked by	AML	No.	Description
Approved by	EO		REVISIONS



Client	CITY OF CAMBRIDGE, MASSACHUSETTS		Sheet	G-6
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT		File No.	
Drawing	GENERAL CONSTRUCTION BASELINE PLAN NO. 1			



PLOTTED: 1/29/2014 12:22 PM BY: mick@msi  
 CAD FILE: C:\mick\kfd\201209\CONC\_G01\_G04-G09.dwg LAYOUT: G-7



PLAN NO. 2

FIELD ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
FIELD ST STA: 3107+97.99 N: 2966404.8458 E: 753911.0012	L12	S68° 22' 55.67"E	493.55	FIELD ST STA: 3119+26.84 N: 2965769.9434 E: 754815.1753

FAYERWEATHER ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
FAYERWEATHER ST STA: 1326+00.00 N: 2965070.5059 E: 754379.0084	L15	N30° 36' 56.36"E	247.55	FAYERWEATHER ST STA: 1332+27.97 N: 2965611.2965 E: 754698.1804
	C4	R=220.00	104.40	FAYERWEATHER ST STA: 1333+32.37 N: 2965685.4297 E: 754770.2986
	C5	R=50.00	31.58	FAYERWEATHER ST STA: 1333+63.96 N: 2965709.3248 E: 754790.1435
	L16	N21° 36' 48.64"E	86.04	FAYERWEATHER ST STA: 1334+50.00 N: 2965789.3189 E: 754821.8372
FAYERWEATHER ST STA: 3119+26.84 N: 2965769.9434 E: 754815.1753	L17	S66° 05' 45.16"E	136.67	FAYERWEATHER ST STA: 3120+63.50 N: 2965714.2959 E: 754939.9992
	L18	S68° 23' 40.81"E	511.50	FAYERWEATHER ST STA: 3125+75.00 N: 2965526.2271 E: 755415.6778

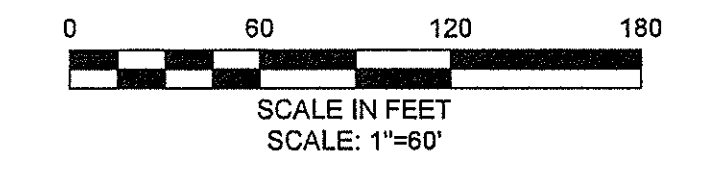
GARDEN ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
GARDEN ST STA: 3511+76.41 N: 2966002.5964 E: 754430.0175	L29	N67° 27' 51.58"E	288.68	GARDEN ST STA: 3514+65.09 N: 2966113.2340 E: 754696.6507
	C11	R=107.00	85.93	GARDEN ST STA: 3515+51.02 N: 2966113.2340 E: 754780.2854
	L29	N67° 27' 51.58"E	288.68	GARDEN ST STA: 3514+65.09 N: 2966113.2340 E: 754696.6507
	L30	S66° 31' 24.13"E	490.51	GARDEN ST STA: 3520+41.52 N: 2965917.1408 E: 755230.1910
	C12	R=1140.00	235.58	GARDEN ST STA: 3522+77.11 N: 2965801.7100 E: 755435.0749

CHILTON ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
CHILTON ST STA: 1250+00.00 N: 2964959.6873 E: 754053.1684	L34	N30° 35' 42.44"E	425.28	CHILTON ST STA: 1260+70.00 N: 2965882.0814 E: 754590.7138

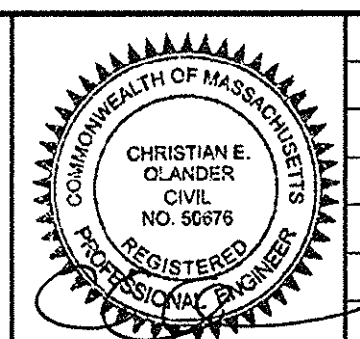
COPLEY ST				
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COPLEY ST STA: 3999+75.00 N: 2965614.2009 E: 754670.8512	L36	S59° 38' 42.43"E	625.00	COPLEY ST STA: 4006+00.00 N: 2965298.5431 E: 755210.2767

HAZEL ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
HAZEL ST STA: 4099+50.00 N: 2965710.7251 E: 754825.4828	L37	S59° 38' 42.43"E	625.00	HAZEL ST STA: 4103+25.00 N: 2966059.2042 E: 754963.9954

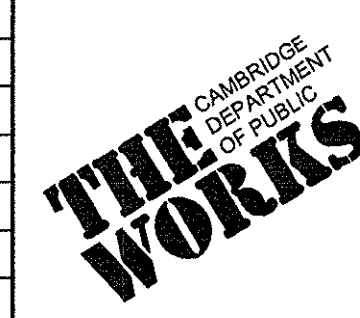
IVY ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
IVY ST STA: 4199+75.00 N: 2965641.0044 E: 755058.7409	L38	N30° 34' 12.44"E	350.00	IVY ST STA: 4203+25.00 N: 2965942.3573 E: 755236.7485



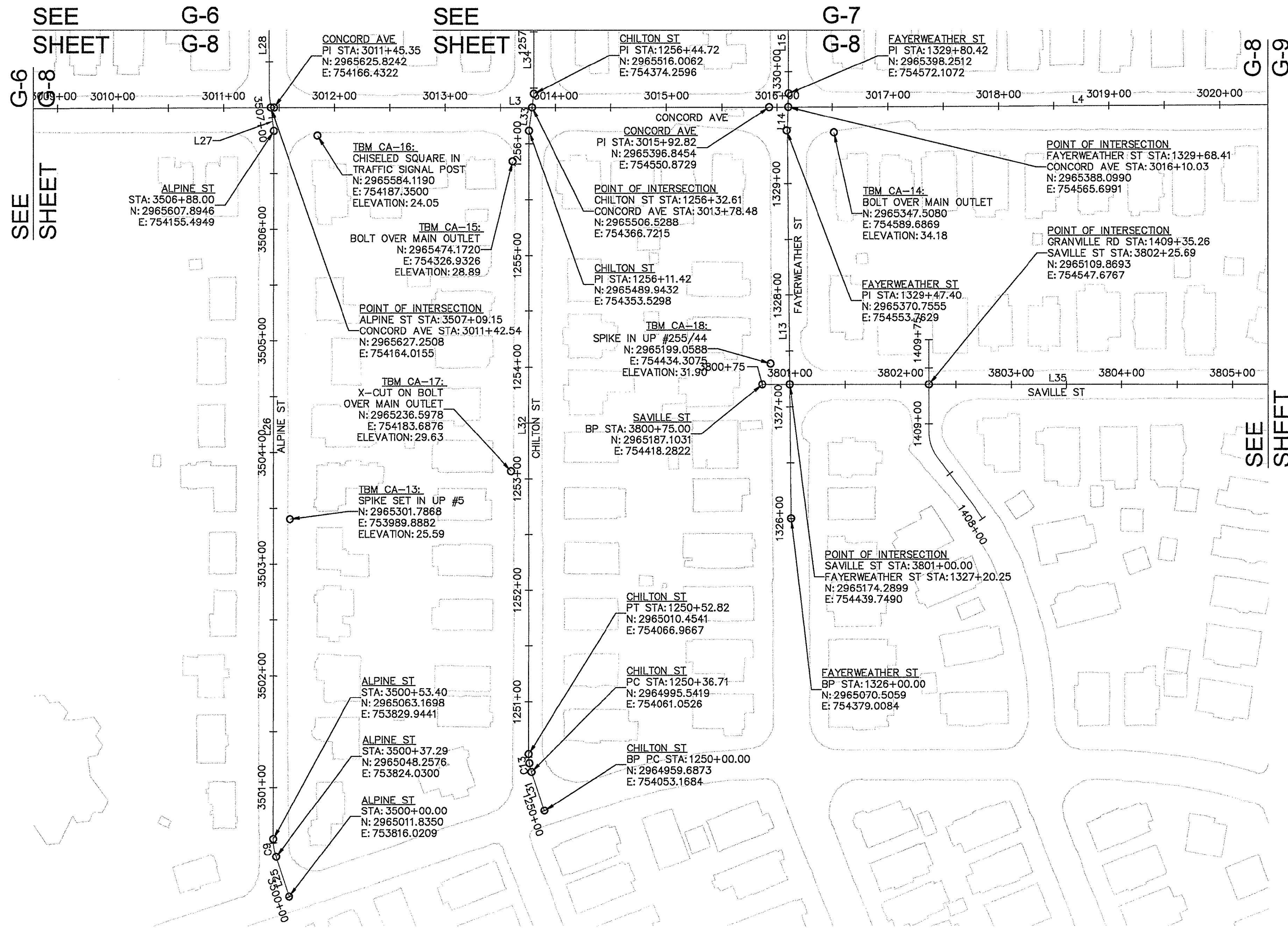
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Designed by	ZSH		
Drawn by	NFT		
Checked by	AML	No.	Description
Approved by	EO		REVISIONS



Client	CITY OF CAMBRIDGE, MASSACHUSETTS	Sheet	G-7
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT	File No.	
Drawing	GENERAL CONSTRUCTION BASELINE PLAN NO. 2		



PLAN NO. 3

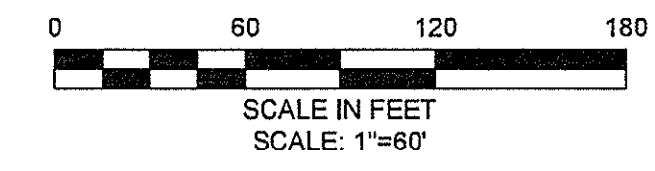
CONCORD AVE				
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CONCORD AVE STA: 3000+00 N: 2966194.5641 E: 753172.5380	L3	S59° 13' 16.75"E	447.47	CONCORD AVE STA: 3015+92.82 N: 2965396.8454 E: 754550.8729
	L4	S59° 27' 45.40"E	550.227	CONCORD AVE STA: 3021+43.04 N: 2965117.2750 E: 755024.7818

FAYERWEATHER ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
FAYERWEATHER ST STA: 1326+00.00 N: 2965070.5059 E: 754379.0084	L13	N30° 20' 19.32"E	347.40	FAYERWEATHER ST STA: 1329+47.40 N: 2965370.7555 E: 754553.7829
	L14	N32° 15' 37.74"E	33.02	FAYERWEATHER ST STA: 1329+80.42 N: 2965398.2512 E: 754572.1072
	L15	N30° 36' 56.36"E	247.55	FAYERWEATHER ST STA: 1332+27.97 N: 2965611.2965 E: 754698.1804

ALPINE ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
ALPINE ST STA: 3500+00.00 N: 2965011.8350 E: 753816.0209	L25	N12° 24' 06.12"E	37.29	ALPINE ST STA: 3500+37.29 N: 2965048.2576 E: 753824.0300
	C9	R=50.00	16.04	ALPINE ST STA: 3500+53.40 N: 2965063.1598 E: 753829.9441
	L26	N30° 51' 51.62"E	634.59	ALPINE ST STA: 3506+88.00 N: 2965607.8946 E: 754155.4949
	L27	N23° 45' 32.41"E	33.25	ALPINE ST STA: 3507+21.25 N: 2965638.3269 E: 754168.8911
	L28	N30° 29' 06.45"E	326.08	ALPINE ST STA: 3510+47.33 N: 2965919.3311 E: 754334.3170

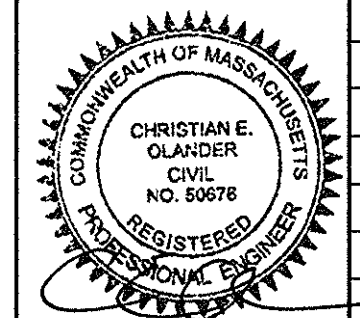
CHILTON ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
CHILTON ST STA: 1250+00.00 N: 2964959.6873 E: 754053.1684	L31	N12° 24' 06.12"E	36.71	CHILTON ST STA: 1250+36.71 N: 2964995.5419 E: 754061.0526
	C13	R=50.00	16.11	CHILTON ST STA: 1250+52.82 N: 2965010.4541 E: 754066.9667
	L32	N30° 51' 51.62"E	558.60	CHILTON ST STA: 1256+11.42 N: 2965489.9432 E: 754353.5298
	L33	N38° 29' 51.73"E	33.30	CHILTON ST STA: 1256+44.72 N: 2965516.0062 E: 754374.2596
	L34	N30° 35' 42.44"E	425.28	CHILTON ST STA: 1260+70.00 N: 2965882.0814 E: 754590.7138

SAVILLE ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
SAVILLE ST STA: 3800+75.00 N: 2965187.1031 E: 754418.2822	L35	S59° 10' 03.34"E	524.52	SAVILLE ST STA: 3805+99.521 N: 2964918.2733 E: 754868.6691

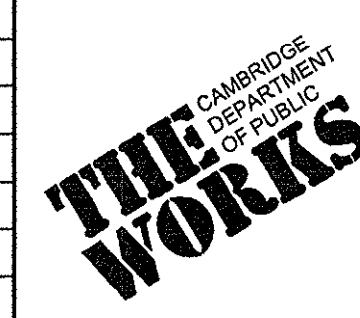


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Job No.	20120256.001A	
Designed by	ZSH	
Drawn by	NFT	
Checked by	AML	
Approved by	EO	
REVISIONS		
No.	Description	Date



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT
Drawing	GENERAL CONSTRUCTION BASELINE PLAN NO. 3

Sheet	G-8
File No.	

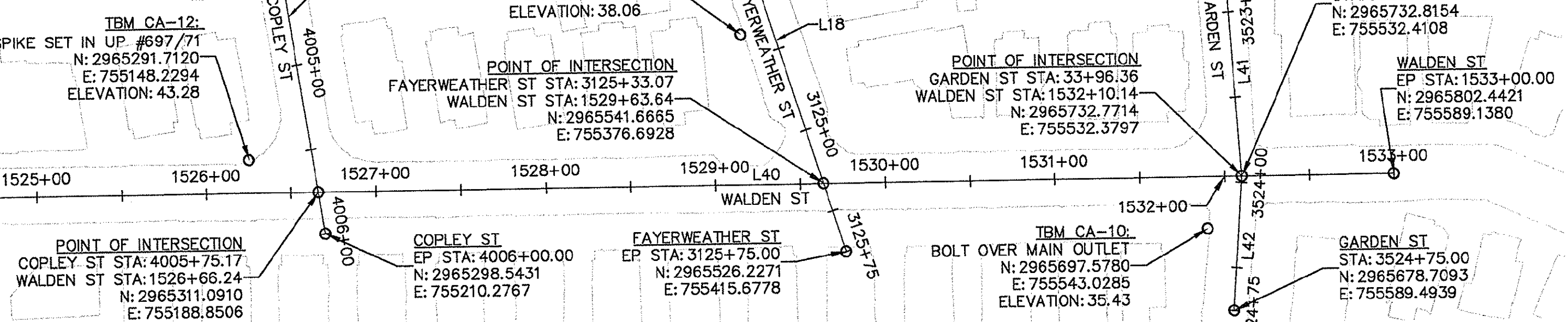


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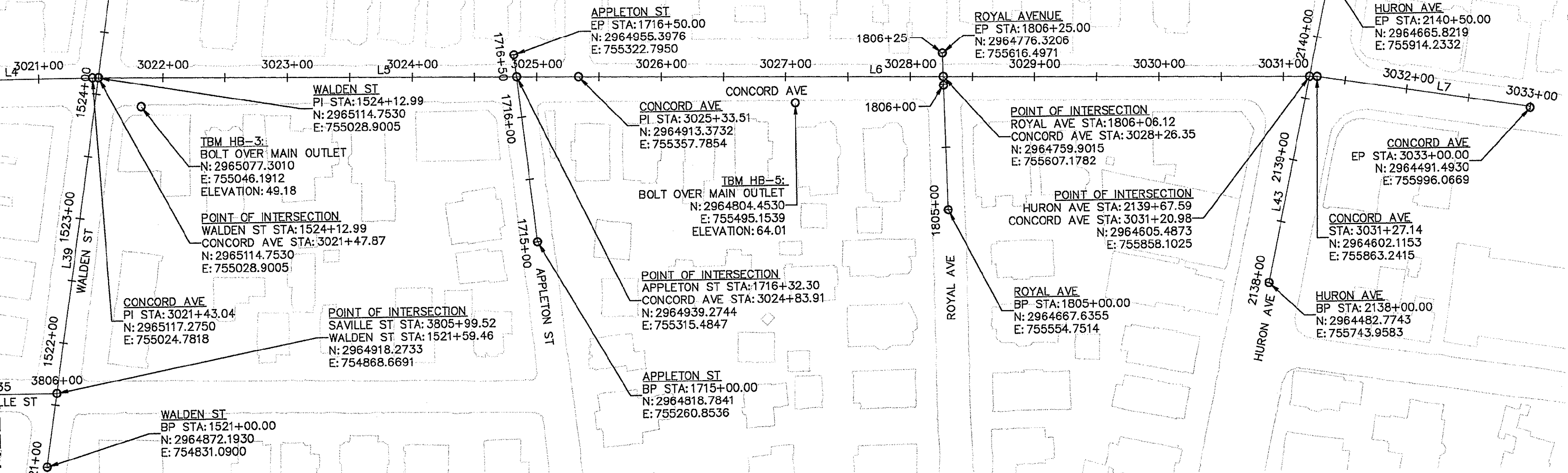
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SEE SHEET



PLAN NO. 4

SEE ABOVE SHEET



PLAN NO. 5

CONCORD AVE				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
CONCORD AVE STA: 3000+00 N: 2966194.5641 E: 753172.5380	L4	S59° 27' 45.40"E	550.227	CONCORD AVE STA: 3021+43.04 N: 2965117.2750 E: 755024.7818
	L5	S58° 31' 13.46"E	390.471	CONCORD AVE STA: 3025+33.51 N: 2964913.3732 E: 755357.7854
	L6	S58° 23' 33.47"E	593.605	CONCORD AVE STA: 3031+27.41 N: 2964602.1153 E: 755863.2415
	L7	S50° 29' 02.31"E	172.88	CONCORD AVE STA: 3033+00.00 N: 2964491.4930 E: 755996.0669

FAYERWEATHER ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
FAYERWEATHER ST STA: 1326+00.00 N: 2965070.5059 E: 754379.0084	L18	S68° 23' 40.81"E	511.50	FAYERWEATHER ST STA: 3125+75.00 N: 2965526.2271 E: 755415.6778

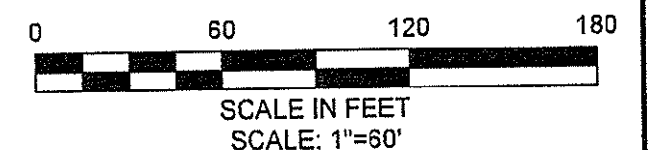
GARDEN ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
GARDEN ST STA: 3511+76.41 N: 2966002.5964 E: 754430.0175	C12	R=1140.00	235.58	GARDEN ST STA: 3522+77.11 N: 2965801.7100 E: 755435.0749
	L41	S54° 40' 59.31"E	119.25	GARDEN ST STA: 3523+96.36 N: 2965732.8154 E: 755532.4108
	L42	S46° 34' 21.26"E	78.64	GARDEN ST STA: 3524+75.00 N: 2965678.7093 E: 755589.4939

SAVILLE ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
SAVILLE ST STA: 3800+75.00 N: 2965187.1031 E: 754418.2822	L35	S59° 10' 03.34"E	524.52	SAVILLE ST STA: 3805+59.521 N: 2964918.2733 E: 754868.6691

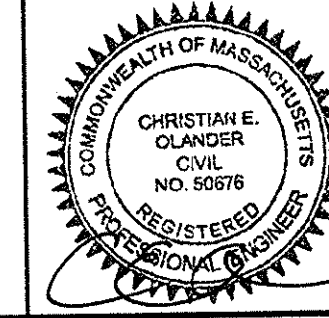
COPLEY ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
COPLEY ST STA: 3999+75.00 N: 2965614.2009 E: 754870.8512	L36	S59° 38' 42.43"E	625.00	COPLEY ST STA: 4006+00.00 N: 2965298.5431 E: 755210.2767

WALDEN ST				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
WALDEN ST STA: 1521+00.00 N: 2964872.1930 E: 754831.0900	L39	N39° 11' 51.48"E	312.99	WALDEN ST STA: 1524+12.99 N: 2965114.7530 E: 755028.9005
	L40	N39° 10' 06.84"E	887.01	WALDEN ST STA: 1533+00.00 N: 2965802.4421 E: 755589.1380

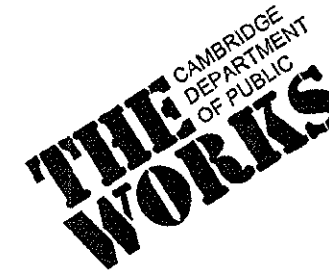
HURON AVE				
BEGINNING ALIGNMENT	SEGMENT LABEL	AZIMUTH	LENGTH	ENDING ALIGNMENT
HURON AVE STA: 2138+00 N: 2964482.7743 E: 755743.9563	L43	N42° 55' 57.92"E	250.00	HURON AVE STA: 2140+50 N: 2964665.8219 E: 755914.2332



CONFORMED SET



Scale	1"=60'	
Date	JANUARY 27, 2014	
Job No.	20120286.001A	
Designed by	ZSH	
Drawn by	NFT	
Checked by	AML	
Approved by	EO	
REVISIONS		
No.	Description	Date



Client	CITY OF CAMBRIDGE, MASSACHUSETTS
Project	CONCORD (CONTRACT 9) SEWER SEPARATION AND SURFACE IMPROVEMENTS PROJECT
Drawing	GENERAL CONSTRUCTION BASELINE PLAN NO. 4 & PLAN NO. 5

Sheet	G-9
File No.	