LIST OF DRAWINGS

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY

YALE CAMPUS / TRUMBULL STREET AREA SEWER SEPARATION PROJECT

PHASE 2

PROJECT NUMBER

CWF 2012-04

Executive Director
Sidney J. Holbrook

DIRECTOR OF FINANCE AND ADMINISTRATION
Gabriel Varca

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Gary Zrelak

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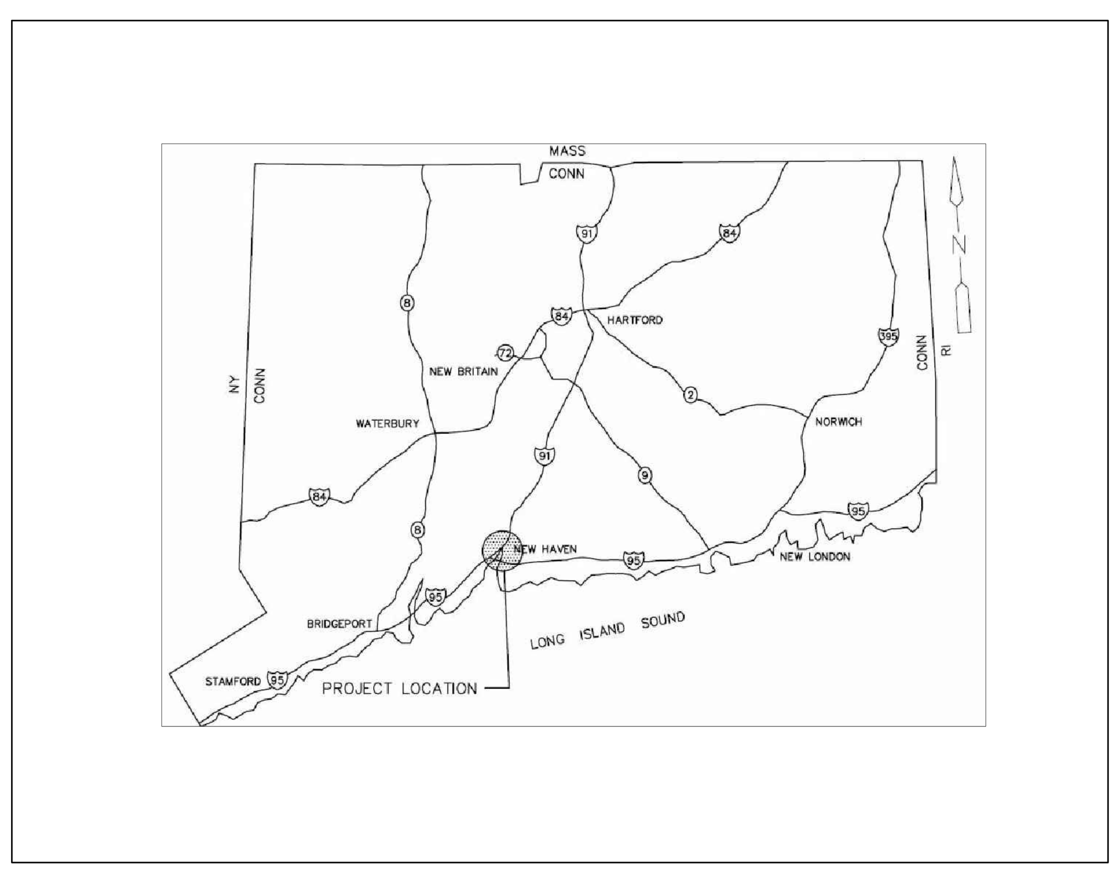
Thomas Sgroi

GNHWPCA
Protecting the Environment

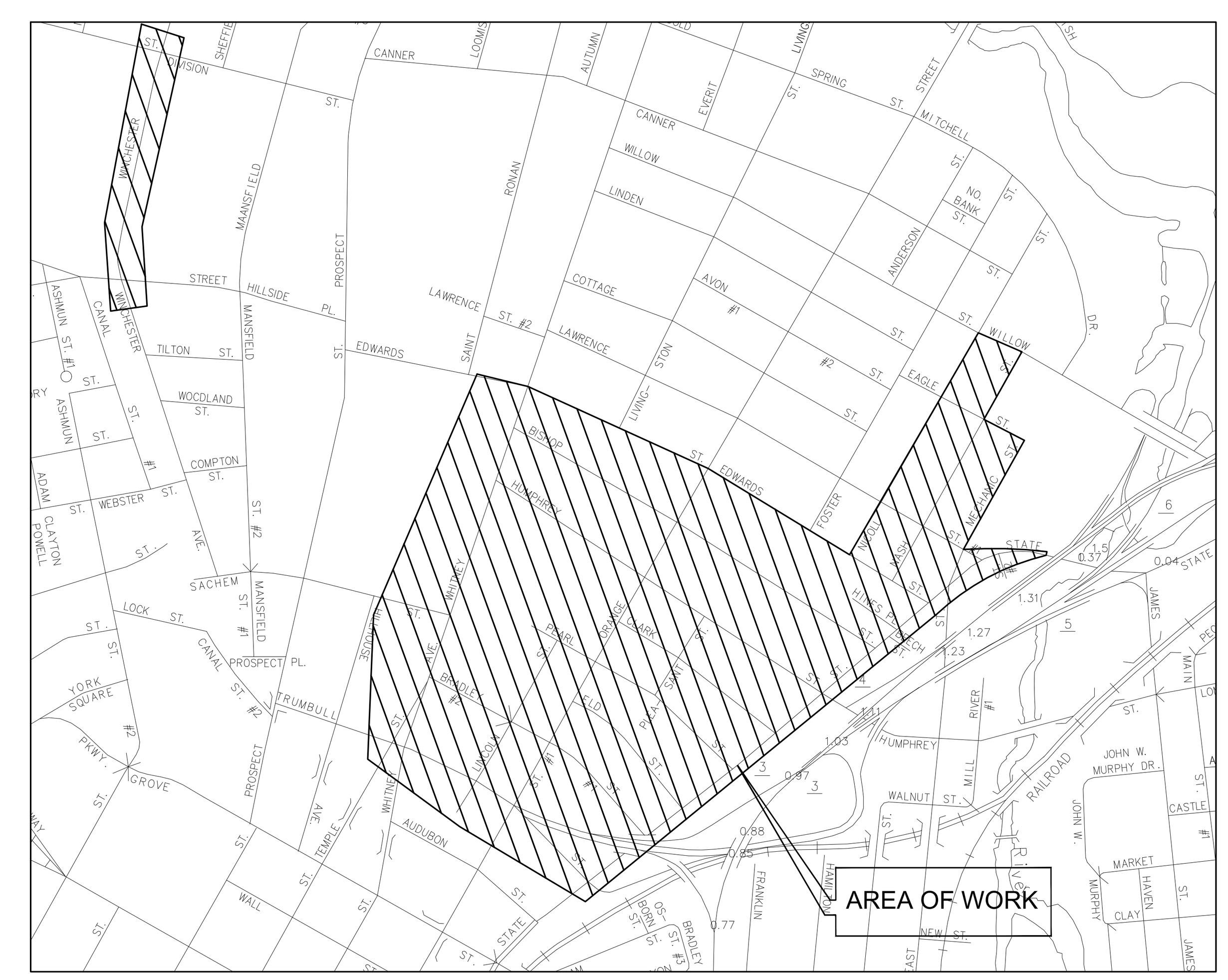
JUNE 09, 2022
BID SET



VICINITY PLAN

20 10 0 20
SCALE IN MILES

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 WHITNEY AVENUE
HAMDEN CT 06518
203 239 4200 203 234 7376 FAX



LOCATION PLAN

1000 500 0 1000
SCALE IN FEET

Tree #	DBH (Diameter at 4.5 feet above grade)	Common Name	Botanical Name	Condition Rating %	Condition Rating	SCRZ Structural Critical Root Zone (radius) in Feet	CRZ Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Removal	Recommended Preservation Measures: Root Prune	Tree Protection Fence	Mulch	Soil Care	Tree Growth Regulator	Construction Oversight/Monitoring	Additional Notes	Condition Notes
1	20	sycamore, American	Platanus acerifolia	70	Good	9.0	30	X								Narrow crown; small DW (1-2"); broken limbs
2	19	sycamore, American	Platanus acerifolia	70	Good	9.0	29		x	x	x	x	x	x		Narrow crown; small DW (1-2"); broken limbs; compacted soil; overhead utility
3		REMOVED	REMOVED	0	Removed											Removed since initial inventory
4	5	dogwood, kousa	Cornus kousa	75	Good	4.0	8		x	x	x	x	x	x		Overhead utility
5	4	elm cultivar	Ulmus spp.	75	Good	3.0	6		x	x	x	x	x	x		Overhead utility
6	8	elm cultivar	Ulmus spp.	70	Good	5.5	12		x	x	x	x	x	x		Broken branches
7	12	pear, callery	Pyrus calleryana	70	Good	7.0	18		x	x	x	x	x	x		Included bark; weak unions; mechanical damage
8		REMOVED	REMOVED	0	Removed											Removed since initial inventory
9	5	oak, scarlet	Quercus coccinea	70	Good	4.0	8		x	x	x	x	x	x	WATERLINE access in CRZ	Narrow crown
10	7	cherry, flowering	Prunus spp.	70	Good	4.0	11		x	x	x	x	x	x		Narrow crown
11	4	crabapple	Malus spp.	70	Good	3.0	6		x	x	x	x	x	x		Full Crown
12	5	hawthorn	Crataegus spp.	70	Good	4.0	8		x	x	x	x	x	x		Full crown
13	5	dogwood, kousa	Cornus kousa	45	Poor	4.0	8		x	x	x	x	x	x		Topped. Multiple large branches pruned.
14	7	maple, red	Acer rubrum	75	Good	5.0	11		x	x	x	x	x	x		Full Crown; Small DW (1- 2")
15	4	crabapple	Malus spp.	80	Good	3.0	6		x	x	x	x	x	x		Full crown
16	26	elm, American	Ulmus americana	65	Fair	10.0	39		x	x	x	x	x	x		Large DW (>2"); broken limbs
17	21	oak, scarlet	Quercus coccinea	55	Fair	9.0	32		x	x	x	x	x	x		Narrow Crown, small DW (1-2"), broken branches
18	27	maple, silver	Acer saccharinum	50	Fair	10.0	41	x								Narrow Crown, Small DW (1-2"), Compacted Soils, included bark; weak union; mechanical damage; overhead utility
19	15	maple, sugar	Acer saccharum	70	Good	8.0	23		x	x	x	x	x	x		Full Crown, Small Deadwood (1-2"); mechanical injury
20	6	tree lilac, Japanese	Syringa reticulata	75	Good	5.0	9		x	x	x	x	x	x		Full crown
21		REMOVED	REMOVED		Removed		0									Removed since initial inventory
22	5	cherry/plum	Prunus spp.	50	Fair	4.0	8		x	x	x	x	x	x		Narrow crown
23	5	cherry/plum	Prunus spp.	45	Poor	4.0	8		x	x	x	x	x	x		Narrow crown
24	5	cherry/plum	Prunus spp.	50	Fair	4.0	8		x	x	x	x	x	x		Narrow crown
25	7	cherry/plum	Prunus spp.	50	Fair	5.0	11		x	x	x	x	x	x		Narrow crown
26	10	pear, callery	Pyrus calleryana	70	Good	6.0	15		x	x	x	x	x	x		Included bark; weak unions; mechanical damage
27	6	cherry/plum	Prunus spp.	50	Fair	5.0	9		x	x	x	x	x	x		Narrow crown
28	10	elm, American	Ulmus americana	75	Good	6.0	15		x	x	x	x	x	x		Broken branches; weak unions
29	14	zelkova, Japanese	Zelkova serrata	72	Good	7.0	21		x	x	x	x	x	x		Full Crown, Small DW (1-2"), included bark
30	22	zelkova, Japanese	Zelkova serrata	65	Fair	9.0	33	x								Full Crown, Small DW (1-2"), included bark.
31	6	oak, red	Quercus rubra	50	Fair	5.0	9		x	x	x	x	x	x		Thin crown; dieback
32		REMOVED	REMOVED		Removed											Removed since initial inventory
33	5	cherry/plum	Prunus spp.	75	Good	4.0	8		x	x	x	x	x	x		Narrow crown
34	5	ash, green	Fraxinus pennsylvanica	50	Fair	4.0	8	x								Emerald ash borer
35	6	maple, red	Acer rubrum	70	Good	4.0	9		x	x	x	x	x	x		Full crown
36	13	horsechestnut	Aesculus hippocastanum	60	Fair	7.0	20		x	x	x	x	x	x		Broken branches; mechanical injury; compacted soil
37	4	dogwood, kousa	Cornus kousa	70	Good	3.0	6		x	x	x	x	x	x		Narrow crown
38	5	linden, American	Tilia americana	75	Good	4.0	8		x	x	x	x	x	x		Narrow crown; weak unions
39	5	cherry/plum	Prunus spp.	75	Good	4.0	8		x	x	x	x	x	x		Narrow crown
40	10	elm, American	Ulmus americana	70	Good	6.0	15		x	x	x	x	x	x		Weak unions Suppressed, Stressed,
41	2	ginkgo	Ginkgo biloba	75	Good	2.0	3		x	x	x	x	x	x	Original tree removed and replaced	Recent planting
42	9	maple, red	Acer rubrum	75	Good	6.0	14		x	x	x	x	x	x		Full Crown
43	5	maple, sugar	Acer saccharum	75	Good	4.0	8		x	x	x	x	x	x		Narrow Crown
44	7	cherry/plum	Prunus spp.	70	Good	5.0	11		x	x	x	x	x	x		Full crown
45	3	elm, hybrid	Ulmus 'Frontier'	55	Fair	2.0	5		x	x	x	x	x	x	Original tree removed and replaced	Recent planting
46	16	maple, Norway	Acer platanoides	50	Fair	8.0	24		x	x	x	x	x	x		Broken top; large DW (>2"); dieback
47	11	cherry, flowering	Prunus spp.	75	Good	6.0	17		x	x	x	x	x	x		Full crown
48	23	oak, scarlet	Quercus coccinea	50	Fair	9.0	35	x							close to structure	Unbalanced canopy; large DW (>2"); broken limbs; mechanical damage; narrow crown
49	13	oak, pin	Quercus palustris	65	Fair	7.0	20		x	x	x	x	x	x		Narrow crown; small DW (1-2")
50	12	oak, pin	Quercus palustris	65	Fair	7.0	18		x	x	x	x	x	x		Narrow crown; small DW (1-2")
51	10	cherry, flowering	Prunus spp.	60	Fair	6.0	15		x	x	x	x	x	x		Small DW (1-2"); compacted soil; decay; included bark
52	13	cherry, flowering	Prunus spp.	55	Fair	7.0	20		x	x	x	x	x	x		Small DW (1-2"); compacted soil; decay; broken branches
53	18	maple, sugar	Acer saccharum	70	Good	8.0	27		x	x	x	x	x	x	close to fence	Small DW (1-2")
54	31	linden, American	Tilia americana	50	Fair	10.0	47		x	x	x	x	x	x		Full crown; small DW (1- 2"); broken branches
55	31	linden, American	Tilia americana	55	Fair	10.0	47		x	x	x	x	x	x		Full crown; small DW (1- 2"); broken branches; trunk decay; included bark
56	32	linden, American	Tilia americana	57	Fair	10.5	48		x	x	x	x	x	x		Full crown; small DW (1- 2"); broken branches; included bark
57	22	zelkova, Japanese	Zelkova serrata	65	Fair	9.0	33		x	x	x	x	x	x		Full crown; small DW (1- 2"); included bark
58		REMOVED	REMOVED	0	Removed											Removed since initial inventory
59	5	dogwood, flowering	Cornus florida	75	Good	4.0	8		x	x	x	x	x	x		Narrow Crown
60	5	dogwood, flowering	Cornus florida	75	Good	4.0	8		x	x	x	x	x	x		Narrow Crown
61	27	linden, American	Tilia americana	60	Fair	10.0	41		x	x	x	x	x	x		Small DW (1-2"); trunk decay; broken branches; mechanical damage
62	25	linden, American	Tilia americana	50	Fair	10.0	38		x	x	x	x	x	x		Small DW (1-2"); trunk decay; broken branches; mechanical damage
63	13	maple, red	Acer rubrum	64	Fair	7.0	20		x	x	x	x	x	x		Small DW (1-2"), overhead utility
64	14	maple, red	Acer rubrum	68	Fair	7.0	21		x	x	x	x	x	x		Narrow Crown; Compacted Soils
65	9	dogwood, flowering	Cornus florida	70	Good	6.0	14		x	x	x	x	x	x		Full crown
66	10	dogwood, flowering	Cornus florida	65	Fair	6.0	15		x	x	x	x	x	x		Full crown
67	30	linden, American	Tilia americana	65	Fair	10.0	45		x	x	x	x	x	x		Large DW (>2"); broken limbs
68	24	maple, Norway	Acer platanoides	55	Fair	9.0	36		x	x	x	x	x	x		Narrown crown; large DW (>2"); included bark
69	25	maple, Norway	Acer platanoides	50	Fair	10.0	38		x	x	x	x	x	x		Narrow Crown; small DW (1-2"); included bark; weak union
70	5	oak, pin	Quercus palustris	75	Good	4.0	8		x	x	x	x	x	x		Full crown
71	29	maple, Norway	Acer platanoides	60	Fair	10.0	44		x	x	x	x	x	x		Full crown; small DW (1-2"); trunk decay; included bark; mechanical injury
72	4	dogwood, flowering	Cornus florida	75	Good	3.0	6		x	x	x	x	x	x		Full crown
73	5	magnolia	Magnolia spp.	75	Good	4.0	8		x	x	x	x	x	x		Full crown
74	43	sycamore, American	Platanus occidentalis	65	Fair	12.0	65		x	x	x	x	x	x		Full crown; small DW (1-2"); mechanical injury
75		REMOVED	REMOVED	0	Removed											Removed since initial inventory
76	9	pear, callery	Pyrus calleryana	65	Fair	6.0	14		x	x	x	x	x	x		Narrow Crown; included bark; weak union; small DW (1-2")
77	7	dogwood, flowering	Cornus florida	70	Good	5.0	11		x	x	x	x	x	x		Full crown
78	38	sycamore, American	Platanus occidentalis	65	Fair	11.0	57		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches
79	10	pear, callery	Pyrus calleryana	65	Fair	6.0	15		x	x	x	x	x	x		Included bark; weak unions; narrow crown
80	27	maple, Norway	Acer platanoides	40	Poor	10.0	41	x							Remove due to condition	Significant dieback; large DW (>2")
81	15	linden, American	Tilia americana	70	Good	8.0	23		x	x	x	x	x	x		Included bark; weak union; compacted soil
82	39	sycamore, American	Platanus occidentalis	67	Fair	11.0	59		x	x	x	x	x	x		Small DW (1-2"); overhead utility
83	4	dogwood, kousa	Kousa dogwood	75	Good	3.0	6		x	x	x	x	x	x	Water valve access in CRZ	Full crown; overhead utility
84	4	honeylocust	Gleditsia triacanthos	75	Good	3.0	6		x	x	x	x	x	x	Replacement of tree from original inventory	Full crown
85	14	maple, Norway	Acer platanoides	50	Fair	7.0	21		x	x	x	x	x	x		Narrow Crown, Small DW (1-2"); included bark; compacted soil; overhead utilities
86	20	linden, American	Tilia americana	50	Fair	9.0	30		x	x	x	x	x	x		Full crown; included bark; weak union; overhead utility; small DW (1-2")
87	14	maple, Norway	Acer platanoides	50	Fair	7.0	21		x	x	x	x	x	x		Narrow crown; small DW (1-2"); compacted soil; included bark; weak union; overhead utility
88	6	maple, sugar	Acer saccharum	75	Good	4.0	9		x	x	x	x	x	x		Narrow crown; mechanical injury
89	11	maple, Norway	Acer platanoides	50	Fair	6.0	17		x	x	x	x	x	x		Girdling root; small DW (1-2"); broken branches; decay; overhead utility
90	8	maple, Norway	Acer platanoides	50	Fair	5.5	12		x	x	x	x	x	x		Narrow crown; small DW (1-2"); broken branches; included bark; mechanical injury.
91	7	dogwood, flowering	Cornus florida	55	Fair	5.0	11		x	x	x	x	x	x		Narrow Crown; Small DW (1-2"); inlcuded bark; overhead utility; decay
92	5	zelkova, Japanese	Zelkova serrata	75	Good	4.0	8		x	x	x	x	x	x		Full crown; overhead utility
93	11	maple, Norway	Acer platanoides	55	Fair	6.0	17		x	x	x	x	x	x		Full Crown; Small DW (1-2"); included bark; overhead utility
94	14	maple, Norway	Acer platanoides	55	Fair	7.0	21		x	x	x	x	x	x		Small DW (1-2"); included bark; overhead utility; broken branches
95	19	maple, Norway	Acer platanoides	45	Poor	8.0	29		x	x	x	x	x	x		Large DW (>2"); broken limbs; decay; inlcuded bark; weak union; overhead utility
96	9	maple, hedge	Acer campestre	75	Good	6.0	14		x	x	x	x	x	x		Full crown; inlcuded bark
97	9	maple, hedge	Acer campestre	75	Good	6.0	14		x	x	x	x	x	x		Full crown
98	16	maple, sugar	Acer saccharum	50	Fair	8.0	24		x	x	x	x	x	x		Narrow Crown; small DW (1-2"); decay; inlcuded bark; broken branches; overhead utility
99	21	maple, Norway	Acer platanoides	50	Fair	9.0	32		x	x	x	x	x	x		Narrow Crown; small DW (1-2"); decay; inlcuded bark; broken branches; overhead utility
100	11	zelkova, Japanese	Zelkova serrata	75	Good	6.0	17		x	x	x	x	x	x		Full crown; broken branches; included bark; overhead utility
101	5	cherry/plum	Prunus spp.	75	Good	3.0	8		x	x	x	x	x	x		Narrow crown
102	23	elm, American	Ulmus americana	65	Fair	9.0	35		x	x	x	x	x	x		Full crown; small DW (1-2"); decay; included bark; lean

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CJH
DRAWN BY: CJH
SHEET CHK'D BY: AF
CROSS CHK'D BY:
APPROVED BY:
DATE: December 9, 2013

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GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
YALE CAMPUS / TRUMBULL STREET AREA
SEWER SEPARATION PROJECT: PHASE 2
DRAFT — NOT FOR CONSTRUCTION

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TREE PRESERVATION
TREE TABLE

DTC PROJECT NO. 09-405-116
FILE NAME:
SHEET NO.
83

Tree #	DBH	Common Name	Botanical Name	Condition Rating %	Condition Rating	SC RZ	CRZ	Recommended Preservation Measures							Additional Notes	Condition Notes
	(Diameter at 4.5 feet above grade)					Structural Critical Root Zone (radius) in Feet	Critical Root Zone Radius in Ft (1.5 ft radius/in DBH)	Removal	Root Prune	Tree Protection Fence	Mulch	Soil Care	Tree Growth Regulator	Construction Oversight/Monitoring		
103	13	maple, sugar	Acer saccharum	50	Fair	7.0	20		x	x	x	x	x	x		Narrow Crown; small DW (1-2"); decay; included bark; overhead utility. Stressed,
104		REMOVED	REMOVED	0	Removed											Removed since initial inventory
105	49	beech, European	Fagus sylvatica	70	Good	13.0	74		x	x	x	x	x	x	On private property	Full crown; small DW (1-2"); inlcuded bark
106	25	sycamore, American	Platanus occidentalis	70	Good	10.0	38		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility
107	16	sycamore, American	Platanus occidentalis	70	Good	8.0	24		x	x	x	x	x	x		Narrow crown; small DW (1-2"); overhead utility
108	14	sycamore, American	Platanus occidentalis	70	Good	7.0	21		x	x	x	x	x	x		Unbalanced canopy; small DW (1-2"); overhead utility
109	26	sycamore, American	Platanus occidentalis	70	Good	10.0	39		x	x	x	x	x	x		Full crown; small DW (1-2")
110	25	sycamore, American	Platanus occidentalis	70	Good	10.0	38		x	x	x	x	x	x		Full crown; small DW (1-2")
111	16	sycamore, American	Platanus occidentalis	70	Good	8.0	24		x	x	x	x	x	x	Pipe next to root flare	Unbalanced canopy; small DW (1-2")
112	21	sycamore, American	Platanus occidentalis	70	Good	9.0	32		x	x	x	x	x	x		Narrow crown; small DW (1-2"); overhead utility
113	29	sycamore, American	Platanus occidentalis	70	Good	10.0	44		x	x	x	x	x	x		Full crown; small DW (1-2")
114	26	sycamore, American	Platanus occidentalis	70	Good	10.0	39		x	x	x	x	x	x		Full crown; small DW (1-2")
115	19	sycamore, American	Platanus occidentalis	70	Good	8.0	29		x	x	x	x	x	x		Narrow crown; small DW (1-2")
116	24	sycamore, American	Platanus occidentalis	70	Good	9.0	36		x	x	x	x	x	x		Full crown; small DW (1-2")
117	23	sycamore, American	Platanus occidentalis	70	Good	9.0	35		x	x	x	x	x	x		Small DW (1-2"); overhead utility
118	27	sycamore, American	Platanus occidentalis	70	Good	10.0	41		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility
119	20	sycamore, American	Platanus occidentalis	70	Good	9.0	30		x	x	x	x	x	x		Narrow crown; small DW (1-2")
120	18	sycamore, American	Platanus occidentalis	70	Good	8.0	27		x	x	x	x	x	x		Unbalaced canopy; small DW (1-2"); leans
121	38	sycamore, American	Platanus occidentalis	70	Good	11.0	57		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility
122	19	sycamore, American	Platanus occidentalis	70	Good	8.0	29		x	x	x	x	x	x		Full crown; small DW (1-2")
123	18	sycamore, American	Platanus occidentalis	70	Good	8.0	27		x	x	x	x	x	x		Full crown; small DW (1-2")
124	25	sycamore, American	Platanus occidentalis	65	Fair	10.0	38		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility; decay
125	26	sycamore, American	Platanus occidentalis	70	Good	10.0	39		x	x	x	x	x	x		Full crown; small DW (1-2")
126	24	sycamore, American	Platanus occidentalis	70	Good	9.0	36		x	x	x	x	x	x		Narrow crown; small DW (1-2"); overhead utility
127		REMOVED	REMOVED	0	Removed											Removed since initial inventory
128	33	sycamore, American	Platanus occidentalis	70	Good	10.0	50		x	x	x	x	x	x		Full crown; small DW (1-2")
129	3	honeylocust	Gleditsia triacanthos	80	Good	2.0	5		x	x	x	x	x	x	Replacement of tree form original inventory	Full crown
130	13	oak, scarlet	Quercus coccinea	75	Good	7.0	20		x	x	x	x	x	x		Full crown; inlcuded bark
131		REMOVED					0									Removed since initial inventory
132		REMOVED					0									Removed since initial inventory
133	14	oak, scarlet	Quercus coccinea	50	Fair	7.0	21	x								Full crown; small DW (1-2"); decay; stressed; mechanical injury
134	14	oak, northern red	Quercus rubra	50	Fair	7.0	21		x	x	x	x	x	x		Narrow crown; dieback
135		REMOVED					0									Removed since initial inventory
136	12	oak, northern red	Quercus rubra	50	Fair	6.0	18		x	x	x	x	x	x		Small DW (1-2"); dieback; overhead utility
137	16	oak, northern red	Quercus rubra	50	Fair	8.0	24		x	x	x	x	x	x		Small DW (1-2"); root damage; decay; inlcuded bark; overhead utility
138	14	oak, northern red	Quercus rubra	50	Fair	7.0	21		x	x	x	x	x	x		Small DW (1-2"); root damage; decay; inlcuded bark; overhead utility
139	11	oak, northern red	Quercus rubra	50	Fair	6.0	17		x	x	x	x	x	x		Narrow crown; small DW (1-2"); overhead utility; mechanical injury
140	9	oak, northern red	Quercus rubra	50	Fair	6.0	14		x	x	x	x	x	x		Narrow crown; small DW (1-2"); overhead utility
141	13	oak, northern red	Quercus rubra	50	Fair	7.0	20		x	x	x	x	x	x		Codominant; included bark; weak union; small DW (1-2")
142	14	oak, northern red	Quercus rubra	50	Fair	7.0	21		x	x	x	x	x	x		Full crown; included bark; weak union
143	15	oak, northern red	Quercus rubra	50	Fair	8.0	23		x	x	x	x	x	x		Full crown; small DW (1-2")
144	13	oak, northern red	Quercus rubra	65	Fair	7.0	20		x	x	x	x	x	x		Full crown
145	13	oak, northern red	Quercus rubra	65	Fair	7.0	20		x	x	x	x	x	x		Full crown; overhead utility
146	17	oak, northern red	Quercus rubra	65	Fair	8.0	26		x	x	x	x	x	x		Full crown; small DW (1-2"); mechanical injury
147	23	horsechestnut	Aesculus hippocastanum	50	Fair	9.0	35		x	x	x	x	x	x		Girdling root; small DW (1-2"); decay; weak unions; mechanical injury
148	16	honeylocust	Gleditsia triacanthos	65	Fair	8.0	24		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches; overhead utility
149	23	honeylocust	Gleditsia triacanthos	65	Fair	9.0	35		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches; overhead utility
150	20	honeylocust	Gleditsia triacanthos	60	Fair	9.0	30		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches; overhead utility; decay
151	20	honeylocust	Gleditsia triacanthos	50	Fair	9.0	30		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches; overhead utility
152	21	honeylocust	Gleditsia triacanthos	50	Fair	9.0	32		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility
153	22	honeylocust	Gleditsia triacanthos	50	Fair	9.0	33		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches; overhead utility
154	23	honeylocust	Gleditsia triacanthos	50	Fair	9.0	35		x	x	x	x	x	x		Full crown; small DW (1-2"); broken branches; overhead utility
155	30	elm, American	Ulmus americana	50	Fair	10.0	45		x	x	x	x	x	x		Full crown; large DW (>2"); broken branches
156	14	zelkova, Japanese	Zelkova serrata	50	Fair	7.0	21		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions
157	13	zelkova, Japanese	Zelkova serrata	70	Good	7.0	20		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions
158	10	zelkova, Japanese	Zelkova serrata	65	Fair	6.0	15		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions
159	14	zelkova, Japanese	Zelkova serrata	50	Fair	7.0	21		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions
160	21	zelkova, Japanese	Zelkova serrata	50	Fair	9.0	32		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions
161	31	elm, American	Ulmus americana	70	Good	10.0	47		x	x	x	x	x	x		Full crown; small DW (1-2")
162	23	zelkova, Japanese	Zelkova serrata	75	Good	9.0	35		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions
163	22	zelkova, Japanese	Zelkova serrata	70	Good	9.0	33		x	x	x	x	x	x		Full crown; small DW (1-2"); included bark; weak unions; overhead utility
164	16	honeylocust	Gleditsia triacanthos	60	Fair	8.0	24		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility
165	24	cherry, flowering	Prunus spp.	60	Fair	9.0	36		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility; decay; included bark
166	26	cherry, flowering	Prunus spp.	60	Fair	10.0	39		x	x	x	x	x	x		Full crown; small DW (1-2"); overhead utility; decay; included bark
167		REMOVED					0									Removed since initial inventory
168	29	honeylocust	Gleditsia triacanthos	70	Good	10.0	44		x	x	x	x	x	x		Full crown; small DW (1-2")
169	28	elm, American	Ulmus americana	50	Fair	10.0	42		x	x	x	x	x	x		Full crown; large DW (>2"); decay
170	29	elm, American	Ulmus americana	50	Fair	10.0	44		x	x	x	x	x	x		Narrow crown; large DW (>2")
171	30	elm, American	Ulmus americana	50	Fair	10.0	45		x	x	x	x	x	x		Full crown; large DW (>2"); decay
172	6	arborvitae, eastern	Thuja occidentalis	75	Good	5.0	9		x	x	x	x	x	x		Full crown
173	6	arborvitae, eastern	Thuja occidentalis	75	Good	5.0	9		x	x	x	x	x	x		Full crown
174	6	arborvitae, eastern	Thuja occidentalis	75	Good	5.0	9		x	x	x	x	x	x		Full crown
175	29	elm, American	Ulmus americana	55	Fair	10.0	44		x	x	x	x	x	x		Small DW (1-2")
176	5	oak, northern red	Quercus rubra	75	Good	4.0	8		x	x	x	x	x	x		Full crown
177	7	elm cultivar	Ulmus spp.	75	Good	5.0	11		x	x	x	x	x	x		Full crown
178	3	dogwood, flowering	Cornus florida	50	Fair	2.0	5		x	x	x	x	x	x		Narrow crown
179	44	mulberry	Morus spp.	50	Fair	13.0	66		x	x	x	x	x	x		Lean; unbalanced canopy; large DW (>2"); broken branches
180	4	pear, callery	Pyrus calleryana	55	Fair	3.0	6		x	x	x	x	x	x		Included bark; weak unions
181	6	hornbeam, European	Carpinus betulus	80	Good	5.0	9		x	x	x	x	x	x	Planted since initial inventory	Full crown
182	4	linden, littleleaf	Tilia cordata	75	Good	3.0	6		x	x	x	x	x	x	Planted since initial inventory	Full crown
183	4	linden, littleleaf	Tilia cordata	75	Good	3.0	6		x	x	x	x	x	x	Planted since initial inventory	Full crown
184	6	linden, littleleaf	Tilia cordata	75	Good	5.0	9		x	x	x	x	x	x	Planted since initial inventory	Full crown
185	6	linden, littleleaf	Tilia cordata	75	Good	5.0	9		x	x	x	x	x	x	Planted since initial inventory	Full crown
186	7	elm cultivar	Ulmus spp.	75	Good	5.0	11		x	x	x	x	x	x	Planted since initial inventory	Full crown
187	4	maple, sugar	Acer saccharum	70	Good	3.0	6		x	x	x	x	x	x	Planted since initial inventory	Full crown
188	4	honeylocust	Gleditsia triacanthos	80	Good	3.0	6		x	x	x	x	x	x	Planted since initial inventory	Full crown
189	4	pear, callery	Pyrus calleryana	75	Good	3.0	6		x	x	x	x	x	x	Planted since initial inventory	Full crown
190	5	honeylocust	Gleditsia triacanthos	75	Good	4.0	8		x	x	x	x	x	x	Planted since initial inventory	Full crown
191	4	honeylocust	Gleditsia triacanthos	75	Good	3.0	6		x	x	x	x	x	x	Planted since initial inventory	Full crown

Total Trees to be Removed: 7

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: CJH
DRAWN BY: CJH
SHEET CHK'D BY: AF
CROSS CHK'D BY:
APPROVED BY:
DATE: December 9, 2013

GNHWPCA
Protecting the Environment
Greater New Haven Water Pollution Control Authority
260 East Street
New Haven, CT 06511
(203) 466-5280 p (203) 466-5286 f
www.gnhwpca.org

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
YALE CAMPUS / TRUMBULL STREET AREA SEWER SEPARATION PROJECT: PHASE 2
DRAFT — NOT FOR CONSTRUCTION

DAVEY RESOURCE GROUP
A Division of The Davey Tree Expert Company
Land Development Solutions
2138 Priest Bridge Ct, Suite 4, Crofton, MD 21114
Office 410.774.0024 • Fax 310.858.0184
National 800.828.8312

TREE PRESERVATION TREE TABLE

DTC PROJECT NO. 09-405-116
FILE NAME:
SHEET NO.

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-101WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-101WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/16/13 — FINISH DATE 4/16/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	18-18-22-13	1.00'-3.00'	
2	10-10-10-11	3.00'-5.00'	
3	7-11-11-14	5.00'-7.00'	
4	9-11-14	10.00'-11.50'	
5	11-15-23	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
ASPHALT	0.20
CONCRETE	0.80
RED/BR. FINE-CRS. SAND, LITTLE GRAVEL, TRACE SILT	2.5
RED/BR. FINE-CRS. SAND, TRACE SILT & GRAVEL	13.0
RED/BR. FINE-MED. SAND, TRACE SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-101WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-102WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-102WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/16/13 — FINISH DATE 4/16/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	3-6-13-37	0.00'-2.00'	
2	28-22-22-28	2.00'-4.00'	
3	22-35-50-48	4.00'-6.00'	
4	auger sample	10.00'-10.00'	
5	16-21-11	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
ASPHALT	0.75
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	11.0
RED/BR. FINE-MED. SAND, LITTLE SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-102WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-103WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-103WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT 12.5 FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/16/13 — FINISH DATE 4/16/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	40-35-45-40	1.00'-3.00'	
2	34-60	5.00'-6.00'	
3	10-11-13	10.00'-11.50'	
4	9-10-10	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
ASPHALT	0.40
BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT - FILL	3.0
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	8.0
RED/BR. FINE-MED. SAND, LITTLE SILT	12.5
RED/BR. FINE SAND, SOME SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-103WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-104WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-104WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/16/13 — FINISH DATE 4/16/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	32-60	1.00'-2.00'	
2	35-60	5.00'-5.75'	
3	auger sample	10.00'-10.00'	
4	auger sample	15.00'-15.00'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
ASPHALT	0.20
CONCRETE	0.80
BR. FINE-CRS. SAND, LITTLE GRAVEL, TRACE SILT - FILL	2.0
RED/BR. FINE-CRS. SAND AND GRAVEL, TRACE SILT	15.0
BOTTOM OF BORING @ 15.0'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-104WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-105WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-105WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/17/13 — FINISH DATE 4/17/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	3-5-7-5	0.00'-2.00'	
2	6-3-4-4	2.00'-4.00'	
3	4-4-5-6	4.00'-6.00'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
TOPSOIL	0.60
RED/BR. FINE-CRS. SAND, LITTLE GRAVEL, TRACE SILT	8.0
AUGER REFUSAL @ 8.0'	

NOTE: UNKNOWN OBSTRUCTION @ 8.0'

TOO CLOSE TO UNDERGROUND ELECTRICAL LINES
TO ATTEMPT TO BREAK THROUGH

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-105WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-106WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-106WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/16/13 — FINISH DATE 4/16/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	4-5-9-15	0.00'-2.00'	
1	32-60	1.00'-2.00'	
2	20-5-4-4	2.00'-4.00'	
3	5-5-8-15	4.00'-6.00'	
4	25-29-29	10.00'-11.50'	
5	8-10-13	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
TOPSOIL, TRACE ASPHALT	0.60
BR. FINE-CRS. SAND, LITTLE SILT & GRAVEL - FILL	2.5
BR. FINE-MED. SAND, LITTLE SILT	6.5
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	9.0
RED/BR. FINE-CRS. SAND, TRACE SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-106WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-107WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-107WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/17/13 — FINISH DATE 4/17/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	3-5-10-5	0.00'-2.00'	
2	6-8-13-11	2.00'-4.00'	
3	20-34-41-59	4.00'-6.00'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
TOPSOIL	0.70
BR. FINE-MED. SAND, SOME SILT	3.0
BR. FINE-MED. SAND, LITTLE SILT	4.5
WEATHERED SANDSTONE	6.0
AUGER REFUSAL @ 6.0'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-107WA

CLARENCE WELTI ASSOC., INC. — HOLE NO. B-113BS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: BRADLEY ST., NEW HAVEN, CT.
SURFACE ELEV.: HOLE NO. B-113BS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

OFFSET: / LINE & STA.: / N. COORDINATE: / E. COORDINATE:
GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/15/13 — FINISH DATE 4/15/13

SAMPLE NO.	BLOWS/6"	DEPTH	A
1	60	1.00'-1.42'	
2	30-60	3.00'-3.75'	
3	60	5.00'-5.42'	
4	auger sample	10.00'-10.00'	
5	auger sample	15.00'-15.00'	

STRATUM DESCRIPTION + REMARKS	DEPTH TO BOTTOM
ASPHALT	0.20
BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE SILT - FILL	2.5
RED/BR. FINE-CRS. SAND AND GRAVEL, TRACE SILT	13.0
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	15.0
BOTTOM OF BORING @ 15.0'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER — INSPECTOR:
SHEET 1 OF 1 — HOLE NO. B-113BS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MDE
DRAWN BY: SRL
SHEET CHK'D BY: AGC
CROSS CHK'D BY:
APPROVED BY:
DATE: November 24, 2014

GNHWPCA Protecting the Environment
Greater New Haven Water Pollution Control Authority
260 East Street
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(203) 466-5280 p (203) 466-5286 f
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GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
YALE CAMPUS / TRUMBULL STREET AREA
SEWER SEPARATION PROJECT: PHASE 2

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 WHITNEY AVENUE
HAMDEN CT 06518
203 239 4200 203 234 7376 FAX

BORING LOGS

PROJECT NO. CWF 2012-04
FILE NAME:
SHEET NO.

CLARENCE WELTI ASSOC., INC. — B-114BS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: BRADLEY ST., NEW HAVEN, CT.
OFFSET / LINE & STA. / N. COORDINATE / E. COORDINATE
SURFACE ELEV.
HOLE NO. B-114BS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/15/13 FINISH DATE 4/15/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	13-15-13-10	1.00'-3.00'	
	2	6-7-22-47	3.00'-5.00'	
5	3	60	5.00'-5.42'	
10	4	auger sample	10.00'-10.00'	
15	5	14-25-21	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.10	
BR. FINE-CRS. SAND, SOME SILT, SOME GRAVEL - FILL	0.80	
BR. FINE-MED. SAND, LITTLE SILT & GRAVEL - FILL	4.0	
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	12.0	
RED/BR. FINE-CRS. SAND, TRACE SILT	16.5	
BOTTOM OF BORING @ 16.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-114BS

CLARENCE WELTI ASSOC., INC. — B-115BS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: BRADLEY ST., NEW HAVEN, CT.
HOLE NO. B-115BS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/15/13 FINISH DATE 4/15/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	15-19-21-20	1.00'-3.00'	
	2	14-15-17-41	3.00'-5.00'	
5	3	16-60	5.00'-5.67'	
10	4	23-19-13	10.00'-11.50'	
15	5	13-14-20	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.35	
GREY FINE-CRS. SAND AND GRAVEL, TRACE SILT - FILL	0.70	
BR. FINE-MED. SAND, SOME GRAVEL, LITTLE SILT, TRACE ASPHALT & BRICK - FILL	3.0	
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	10.5	
RED/BR. FINE-CRS. SAND, TRACE SILT	16.5	
BOTTOM OF BORING @ 16.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-115BS

CLARENCE WELTI ASSOC., INC. — B-116LS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: LINCOLN ST., NEW HAVEN, CT.
HOLE NO. B-116LS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/11/13 FINISH DATE 4/11/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	7-10-11-17	1.00'-3.00'	
	2	25-26-16-16	3.00'-5.00'	
5	3	12-12-34-25	5.00'-7.00'	
10	4	14-18-42	10.00'-11.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.05	
GREY FINE-CRS. GRAVEL AND FINE-CRS. SAND, TRACE SILT	0.75	
BR. FINE-CRS. SAND, LITTLE SILT & GRAVEL - FILL	3.0	
RED/BR. FINE-MED. SAND, TRACE SILT	6.0	
RED/BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE SILT	9.0	
RED/BR. FINE SAND, SOME SILT	11.5	
BOTTOM OF BORING @ 11.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-116LS

CLARENCE WELTI ASSOC., INC. — B-117LS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: LINCOLN ST., NEW HAVEN, CT.
HOLE NO. B-117LS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/11/13 FINISH DATE 4/11/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	14-8-15-23	1.00'-3.00'	
	2	50-34-36-60	3.00'-5.00'	
5	3	45-39-60	5.00'-7.00'	
10	4	9-8-8	10.00'-11.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.10	
GREY FINE-CRS. SAND AND GRAVEL, TRACE SILT	0.75	
BR. FINE-CRS. SAND, LITTLE SILT, TRACE GRAVEL - FILL	2.0	
RED/BR. FINE-CRS. SAND, LITTLE GRAVEL, TRACE SILT	8.5	
RED/BR. FINE SAND AND SILT	11.5	
BOTTOM OF BORING @ 11.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-117LS

CLARENCE WELTI ASSOC., INC. — B-118LS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: LINCOLN ST., NEW HAVEN, CT.
HOLE NO. B-118LS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/11/13 FINISH DATE 4/11/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	6-3-4-6	1.00'-3.00'	
	2	7-10-21-25	3.00'-5.00'	
5	3	24-27-27-30	5.00'-7.00'	
10	4	19-24-25	10.00'-11.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.10	
GREY FINE-CRS. GRAVEL AND FINE-CRS. SAND, TRACE SILT	0.50	
BR. FINE-MED. SAND, SOME SILT, TRACE GRAVEL & BRICK - FILL	2.5	
RED/BR. FINE-CRS. SAND, TRACE SILT	9.0	
RED/BR. FINE-MED. SAND, TRACE SILT	11.5	
BOTTOM OF BORING @ 11.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-118LS

CLARENCE WELTI ASSOC., INC. — B119WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
HOLE NO. B119WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/17/13 FINISH DATE 4/17/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	17-12-15-14	1.00'-3.00'	
	2	13-20-35-60	3.00'-5.00'	
10	3	auger sample	10.00'-10.00'	
15	4	12-19-22	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.3[illegible]	
CONCRETE	[illegible]	
BR. FINE-CRS. SAND, LITTLE SILT & GRAVEL	4.[illegible]	
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	10.0	
RED/BR. FINE-MED. SAND, TRACE SILT	16.5	
BOTTOM OF BORING @ 16.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B119WA

CLARENCE WELTI ASSOC., INC. — B-120WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
HOLE NO. B-120WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/17/13 FINISH DATE 4/17/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	40-36-31-25	1.00'-3.00'	
	2	22-22-35-60	3.00'-4.75'	
10	3	auger sample	10.00'-10.00'	
15	4	10-12-19	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.30	
CONCRETE	0.70	
BR. FINE-CRS. SAND, LITTLE SILT & GRAVEL - FILL	2.5	
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	12.5	
RED/BR. FINE TO FINE-CRS. SAND, TRACE SILT	16.5	
BOTTOM OF BORING @ 16.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-120WA

CLARENCE WELTI ASSOC., INC. — B-121WA

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: WHITNEY AVE., NEW HAVEN, CT.
HOLE NO. B-121WA

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/17/13 FINISH DATE 4/17/13

DEPTH	SAMPLE NO.	BLOWS/6"	DEPTH	A
	1	9-7-8-8	1.00'-3.00'	
	2	4-60	3.00'-3.75'	
5	3	60	5.00'-5.42'	
10	4	auger sample	10.00'-10.00'	
15	5	24-24-26	15.00'-16.50'	

STRATUM DESCRIPTION + REMARKS		ELEV.
ASPHALT	0.20	
CONCRETE	0.70	
BR. FINE-CRS. SAND, SOME SILT, LITTLE GRAVEL - FILL	4.0	
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	11.5	
RED/BR. FINE SAND, LITTLE SILT	16.5	
BOTTOM OF BORING @ 16.5'		

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-121WA

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MDE
DRAWN BY: SRL
SHEET CHK'D BY: AGC
CROSS CHK'D BY:
APPROVED BY:
DATE: November 24, 2014

GNHWPCA
Protecting the Environment
Greater New Haven Water Pollution Control Authority
260 East Street
New Haven, CT 06511
(203) 466-5280 p (203) 466-5286 f
www.gnhwpca.org

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
YALE CAMPUS / TRUMBULL STREET AREA
SEWER SEPARATION PROJECT: PHASE 2

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 WHITNEY AVENUE
HAMDEN CT 06518
203 239 4200 203 234 7376 FAX

BORING LOGS

PROJECT NO. CWF 2012-04
FILE NAME:
SHEET NO.
86

B-122LS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: LINCOLN ST., NEW HAVEN, CT.
HOLE NO. B-122LS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/15/13 FINISH DATE 4/15/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	5-4-4-5	1.00'-3.00'
2	3-4-3-4	3.00'-5.00'
3	7-6-13-25	5.00'-7.00'
4	60	10.00'-10.42'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.35
RED/BR. FINE-CRS. SAND, LITTLE GRAVEL, TRACE SILT, TRACE WOOD - FILL	6.5
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	10.5
BOTTOM OF BORING @ 10.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-122LS

B-123LS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: LINCOLN ST., NEW HAVEN, CT.
HOLE NO. B-123LS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/15/13 FINISH DATE 4/15/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	6-5-4-4	1.00'-3.00'
2	11-9-6-8	3.00'-5.00'
3	8-10-12-15	5.00'-7.00'
4	24-40-57	10.00'-11.50'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.05
BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE SILT	0.75
DARK BR. FINE-MED. SAND, SOME SILT - FILL	2.0
RED/BR. FINE-CRS. SAND, LITTLE FINE GRAVEL, TRACE SILT	3.5
RED/BR. FINE-CRS. SAND, TRACE SILT	8.0
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	11.5
BOTTOM OF BORING @ 11.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-123LS

B-124LS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: LINCOLN ST., NEW HAVEN, CT.
HOLE NO. B-124LS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/11/13 FINISH DATE 4/11/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	10-12-13-10	1.00'-3.00'
2	9-8-11-14	3.00'-5.00'
3	9-13-17-20	5.00'-7.00'
4	60	10.00'-10.92'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.05
GREY FINE-CRS. GRAVEL AND FINE-CRS. SAND, TRACE SILT	0.75
BR. FINE-MED. SAND, SOME SILT, LITTLE FINE GRAVEL - FILL	2.5
RED/BR. FINE-MED. SAND, TRACE SILT	4.0
RED/BR. FINE-CRS. SAND, TRACE SILT	9.0
RED/BR. FINE-CRS. SAND, SOME GRAVEL, LITTLE SILT	10.1
BOTTOM OF BORING @ 10.1'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-124LS

B-128PS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWER SEPARATION PHASE 2
LOCATION: PEARL ST., NEW HAVEN, CT.
HOLE NO. B-128PS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375"	
HAMMER WT.			140 lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/11/13 FINISH DATE 4/11/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	6-5-9-27	1.00'-3.00'
2	20-37-27-15	3.00'-5.00'
3	24-31-60	5.00'-6.50'
4	12-14-20	10.00'-11.50'
5	14-14-19	15.00'-16.50'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.20
GREY FINE-CRS. GRAVEL AND FINE-CRS. SAND, TRACE SILT	0.80
BR. FINE-MED. SAND, SOME GRAVEL, LITTLE SILT - FILL	2.0
BR. FINE SAND, SOME SILT	3.0
RED/BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	8.5
RED/BR. FINE-CRS. SAND, LITTLE GRAVEL, TRACE SILT	13.0
RED/BR. FINE-MED. SAND, TRACE SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:RECOVERY "
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J. BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-128PS

B-129PS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWERS SEPARTION PHASE 2
LOCATION: PEARL STREET, NEW HAVEN, CT
HOLE NO. B-129PS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375	
HAMMER WT.			140lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/10/13 FINISH DATE 4/10/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	13-10-7-7	1.00'-3.00'
2	8-10-12-45	3.00'-5.00'
3	40-60	5.00'-5.92'
4	44-35-30	10.00'-11.50'
5	6-11-10	15.00'-16.50'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.20
GREY/BR. FINE-CRS. SAND AND, TRACE GRAVEL	0.8
BR.FINE-CRS.SAND, LITTLE SILT, TRACE GRAVEL	3.5
BR.FINE-CRS.SAND, SOME GRAVEL, TRACE SILT	12.0
RED/BR.FINE-MED.SAND, TRACE SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J.BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-129PS

B-130PS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWERS SEPARTION PHASE 2
LOCATION: PEARL STREET, NEW HAVEN, CT
HOLE NO. B-130PS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375	
HAMMER WT.			140lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/10/13 FINISH DATE 4/10/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	23-23-24-30	1.00'-3.00'
2	34-60	3.00'-4.00'
3	50-60	5.00'-6.00'
4	18-25-28	10.00'-11.50'
5	11-11-9	15.00'-16.50'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.20
BR. FINE-CRS. SAND, SOME GRAVEL, TRACE SILT	1.0
RED/BR.FINE-CRS.SAND AND GRAVEL, TRACE SILT	12.5
RED/BR.FINE-CRS.SAND, TRACE SILT & GRAVEL	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J.BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-130PS

B-131PS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWERS SEPARTION PHASE 2
LOCATION: PEARL STREET, NEW HAVEN, CT
HOLE NO. B-131PS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375	
HAMMER WT.			140lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/10/13 FINISH DATE 4/10/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	14-9-8-6	1.00'-3.00'
2	6-6-6-5	3.00'-5.00'
3	6-10-25-27	5.00'-7.00'
4	8-9-12	10.00'-11.50'
5	AUGER SAMPLE	15.00'-15.00'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.35
GREY/BR. FINE-CRS.GRAVEL AND SAND, TRACE SILT	1.0
RED/BR. FINE-CRS.SAND, LITTLE SILT & GRAVEL- FILL	6.0
RED/BR.FINE-CRS.SAND, SOME GRAVEL, TRACE SILT	9.0
RED/BR.FINE-CRS.SAND, TRACE SILT & GRAVEL	13.0
RED/BR.FINE-CRS.SAND AND GRAVEL, TRACE SILT	15.0
BOTTOM OF BORING @ 15.0'	

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J.BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-131PS

B-132PS

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT: DTC
PROJECT NAME: TRUMBULL SEWERS SEPARTION PHASE 2
LOCATION: PEARL STREET, NEW HAVEN, CT
HOLE NO. B-132PS

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375	
HAMMER WT.			140lbs	
HAMMER FALL			16"	

GROUND WATER OBSERVATIONS: AT none FT. AFTER 0 HOURS; AT FT. AFTER HOURS
START DATE 4/10/13 FINISH DATE 4/10/13

SAMPLE NO.	BLOWS/6"	DEPTH
1	22-31-21-16	1.00'-3.00'
2	12-15-22-22	3.00'-5.00'
3	16-17-20-25	5.00'-7.00'
4	13-19-24	10.00'-11.50'
5	8-8-9	15.00'-16.50'

STRATUM DESCRIPTION + REMARKS	ELEV.
ASPHALT	0.30
GREY/BR. FINE-CRS.GRAVEL AND SAND, TRACE SILT	0.70
RED/BR.FINE-CRS.SAND, SOME GRAVEL, TRACE SILT	12.0
RED/BR.FINE-MED.SAND, TRACE SILT	16.5
BOTTOM OF BORING @ 16.5'	

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%
DRILLER: J.BREWER
INSPECTOR:
SHEET 1 OF 1 HOLE NO. B-132PS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MDE
DRAWN BY: SRL
SHEET CHK'D BY: AGC
CROSS CHK'D BY:
APPROVED BY:
DATE: November 24, 2014

GNHWPCA Protecting the Environment
Greater New Haven Water Pollution Control Authority
260 East Street
New Haven, CT 06511
(203) 466-5280 p (203) 466-5286 f
www.gnhwpca.org

GREATER NEW HAVEN WATER POLLUTION CONTROL AUTHORITY
YALE CAMPUS / TRUMBULL STREET AREA
SEWER SEPARATION PROJECT: PHASE 2

dtc
DIVERSIFIED TECHNOLOGY CONSULTANTS
2321 WHITNEY AVENUE
HAMDEN CT 06518
203 239 4200 203 234 7376 FAX

BORING LOGS

PROJECT NO. CWF 2012-04
FILE NAME:
SHEET NO.
87

CLARENCE WELTI ASSOC., INC.
P.O. BOX 397
GLASTONBURY, CONN 06033

CLIENT	PROJECT NAME	LOCATION
DTC	TRUMBULL SEWERS SEPARTION PHASE 2	PEARL STREET, NEW HAVEN, CT

SURFACE ELEV. | **HOLE NO. B-133PS**

	AUGER	CASING	SAMPLER	CORE BAR.
TYPE	HSA		SS	
SIZE I.D.	3.75"		1.375	
HAMMER WT.			140lbs	
HAMMER FALL			16"	

OFFSET
LINE & STA.
N. COORDINATE
E. COORDINATE

GROUND WATER OBSERVATIONS
AT none FT. AFTER 0 HOURS
AT FT. AFTER HOURS

START DATE 4/10/13
FINISH DATE 4/10/13

DEPTH	SAMPLE NO.	SAMPLE BLOWS/6"	SAMPLE DEPTH	A	STRATUM DESCRIPTION + REMARKS	ELEV.
0					ASPHALT	0.30
					GREY/BR. FINE-CRS.GRAVEL AND SAND, TRACE SILT	0.80
	1	13-10-8-5	1.00'-3.00'		RED/BR.FINE-MED.SAND, TRACE SILT	
	2	4-8-40-60	3.00'-5.00'			
5	3	38-60	5.00'-5.83'		RED/BR.FINE-CRS.SAND AND GRAVEL,TRACE SILT	5.0
10	4	AUGER SAMPLE	10.00'-10.00'			
15	5	AUGER SAMPLE	15.00'-15.00'		BOTTOM OF BORING @ 15.0'	15.0
20						
25						
30						
35						

LEGEND: COL. A:
SAMPLE TYPE: D=DRY A=AUGER C=CORE U=UNDISTURBED PISTON S=SPLIT SPOON
PROPORTIONS USED: TRACE=0-10% LITTLE=10-20% SOME=20-35% AND=35-50%

DRILLER: J.BREWER
INSPECTOR:
SHEET 1 OF 1 | HOLE NO. B-133PS

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MDE
DRAWN BY: SRL
SHEET CHK'D BY: AGC
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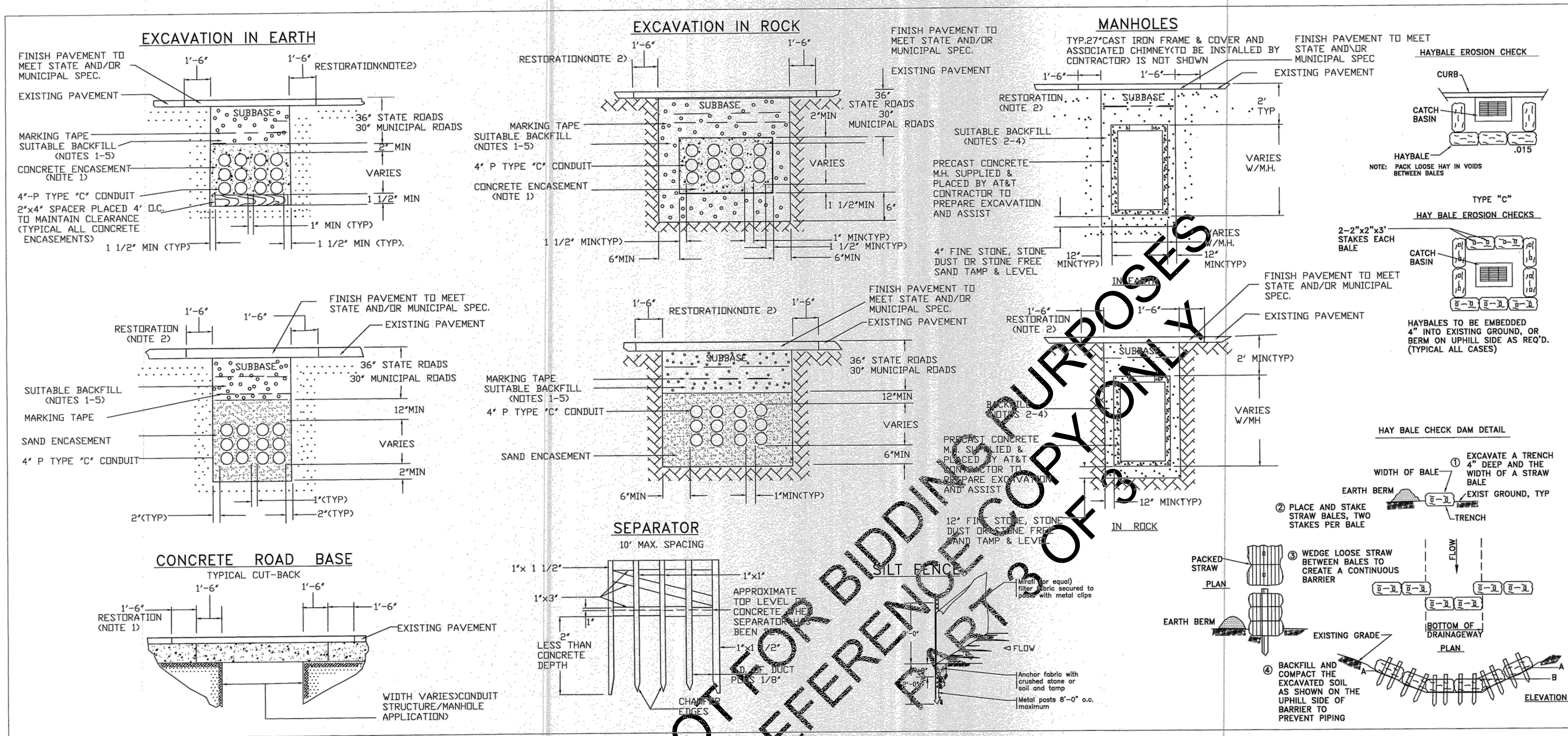
HAMDEN CT 06518
203 239 4200 203 234 7376 FAX

BORING LOGS

PROJECT NO. CWF 2012-04
FILE NAME:
SHEET NO.
88



NOTES:

CONCRETE & MATERIALS

1. CONCRETE USED TO ENCASE 'C' PLASTIC CONDUIT SHALL HAVE A NOMINAL COMPRESSION STRENGTH OF 2500 POUNDS PER SQUARE INCH, CONCRETE SLUMPS SHOULD BE 9 INCHES. CONCRETE SHALL BE PROVIDED BY THE CONTRACTOR.
2. HORIZONTAL SEPARATOR TO BE USED FOR CONCRETE ENCASED DUCT STRUCTURES AT 4'-5' SPACING. SEPARATORS SHALL BE LEFT IN PLACE UNTIL CONCRETE POUR HAS ADVANCED AT LEAST 15 FEET AHEAD OF SEPARATOR.
3. BEFORE BACKFILLING, ALLOW CONCRETE TO CURE TWO HOURS.

MANHOLES / CONDUIT

1. CONDUIT, MANHOLES, FRAMES & COVERS & ALL INCIDENTAL FITTINGS SHALL BE SUPPLIED BY AT&T.-UNLESS OTHERWISE SPECIFIED ON THE SPECIFIC WORK ORDER.

TRAFFIC & SAFETY

1. THE CONTRACTOR SHALL PROVIDE SIGNS, BARRICADES, DRUMS, TRAFFIC CONES, DELINEATORS AND POLICE OFFICERS FOR MAINTENANCE AND PROTECTION OF TRAFFIC AS REQUIRED BY LOCAL OR STATE AUTHORITIES.
2. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT TRENCH PROTECTION, IE., SHEETING, BARRICADING, ETC. SHALL MEET LOCAL, STATE AND OSHA SAFETY REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE PROTECTION REQUIRED IN THE CONSTRUCTION INDUSTRY OSHA STANDARD 1926 SUB PART P EXCAVATIONS TRENCHING AND SHORING.

   SECTIONS:
   1926.650 GENERAL PROTECTION REQUIREMENTS
   1926.651 SPECIFIC EXCAVATION REQUIREMENTS
   1926.652 SPECIFIC TRENCHING REQUIREMENTS
   INCLUDING TABLES P-1 AND P-2

BACKFILL

1. THE FIRST 12" OF FILL ABOVE THE DUCT STRUCTURE SHOULD BE SAND OR OTHER GRANULAR MATERIAL(NOT TO EXCEED 1/2") TAMPED USING LIGHTWEIGHT EQUIPMENT SUCH AS PNEUMATIC OR VIBRATING TAMPERS.
2. BACKFILL MATERIAL SHALL BE FREE FROM STONES, 3" OR LARGER, FROZEN MATERIALS, WOOD, AND OTHER EXTRANEOUS MATERIALS (INCLUDES BUT IS NOT LIMITED TO ORGANIC MATERIALS, DEBRIS & RUBBLE).
3. ALL BACKFILL SHALL BE THOROUGHLY COMPACTED IN LAYERS OF NOT MORE THAN 6 INCHES.
4. IN ROCK EXCAVATION, PROVIDE 6" DEAD SAND CUSHION AROUND STRUCTURES.
5. CONTRACTOR SHALL PLACE MARKING TAPE 18" ABOVE DUCT STRUCTURE. MARKING TAPE SHALL BE SUPPLIED BY S.N.E.T..
6. ALL BACKFILL MATERIAL SHALL BE APPROVED BY THE AT&T INSPECTOR

RESTORATION

1. THE 1'-6" CUT-BACK OF CONCRETE & PAVEMENT (IF REQUIRED BY GOVERNING AUTHORITY) SHALL BE MADE AT TIME OF FINAL RESTORATION.
2. DEPTH OF SUBBASE AND MATERIAL USED SHALL CONFORM TO STANDARD STATE AND/OR MUNICIPAL SPECIFICATIONS.

ACCEPTANCE

1. CONTRACTOR SHALL ROD & ROPE TWO ROUND AND TWO TETRA DUCT CHAMBERS (SBC INSPECTOR TO SPECIFY) WHEN PLACED IN MAIN LINE CONDUIT STRUCTURES. CONTRACTOR SHALL ROD & ROPE ONE LATERAL DUCT TO EACH POLE AND BUILDING. PULL LINE SHALL BE PROVIDED BY AT&T AND PLACED BY CONTRACTOR.

SLIT/SEDIMENTATION CONTROL

1. LAND DISTURBANCE WILL BE KEPT TO A MINIMUM; RESTABILIZATION WILL BE SCHEDULED AS SOON AS PRACTICABLE.
2. ALL EROSION & SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 'GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL 'HANDBOOK, JANUARY 1985, OR AS AMENDED.
3. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO CONSTRUCTION WHENEVER POSSIBLE.
4. ALL CONTROL MEASURES WILL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
5. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD IF NECESSARY OR REQUIRED.
6. SEDIMENT REMOVED FROM CONTROL STRUCTURES WILL BE DISPOSED OF IN A MANNER WHICH IS CONSISTENT WITH THE INTENT OF THE PLAN.
7. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES AND INFORMING ALL PARTIES INCLUDING SUBCONTRACTORS ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.
8. WHEREVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED.
9. ONLY THE SMALLEST PRACTICAL AREA OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION.

frontier COMMUNICATIONS

STANDARD DETAILS FOR THE PLACEMENT OF CONDUIT AND MANHOLES

SCALE: NOT TO SCALE

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: MDE
DRAWN BY: SRL
SHEET CHK'D BY: AGC
CROSS CHK'D BY:
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FRONTIER COMMUNICATION
STANDARD DETAILS

PROJECT NO. CWF 2012-04
FILE NAME:
SHEET NO.
89