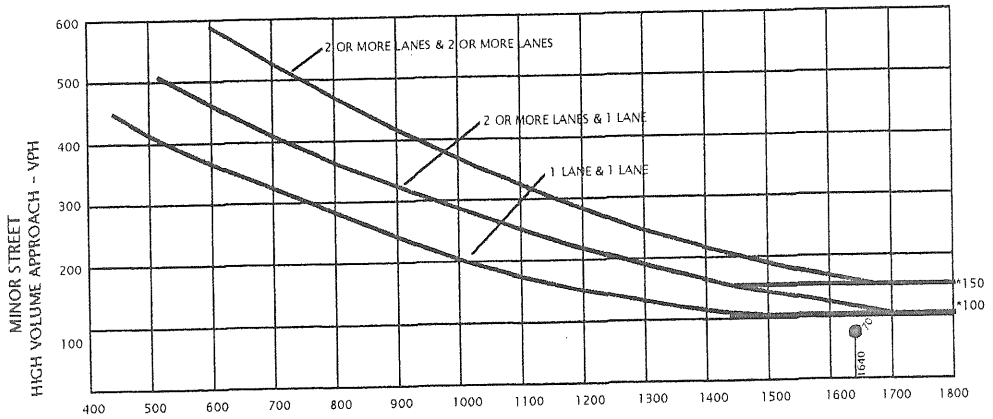
434-C-1
331 Veranda St.
PK. & landscaping
Martin's Point

Existing Year 2006 - Martins Point Main Drive

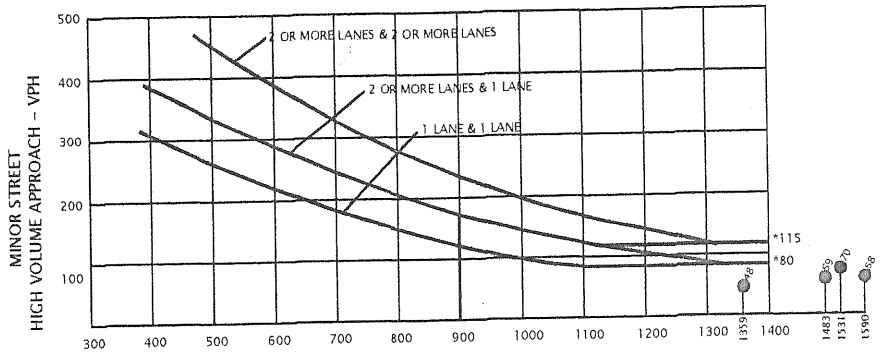
Figure 4C-3, Warrant 3, Peak Hour



*Note: 150 vph applies as lower threshold volume faor a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with one lane.

Existing Year 2006 - Martins Point Main Drive

Figure 4C-1, Warrant 1, Four-Hour Vehicular Volume



*Note: 115 vph applies as lower threshold volume faor a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor street approach with one lane.

Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Condition A—Minimum Vehicular Volume							
Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)			-Vehicles per hour on higher-volume minor-street approach (one direction only)		
Major Street	Minor Street	100%[a]	80%[b]	70%[c]	100%[a]	80%[b]	70%[c]
1	1	500 ✓	400 ✓	350	150 ✗	120 ✗	105
2 or more	1	600	480	420	150	120	105
2 or more	2 or more	600	480	420	200	160	140
1	2 or more	500	400	350	200	160	140

Condition B—Interruption of Continuous Traffic							
Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)			Vehicles per hour on higher-volume minor-street approach (one direction only)		
Major Street	Minor Street	100%[a]	80%[b]	70%[c]	100%[a]	80%[b]	70%[c]
1	1	750 ✓	600 ✓	525	75 ✗	60 ✗	53
2 or more	1	900	720	630	75	60	53
2 or more	2 or more	900	720	630	100	80	70
1	2 or more	750	600	525	100	80	70

[a] Basic minimum hourly volume.
[b] Used for combination of Conditions A and B after adequate trial of other remedial measures.
[c] May be used when the major-street speed exceeds 70 km/h (40 mph) or in an isolated community with a population of less than 10,000.

Martins Point
Existing Year 2006
Signal Warrants

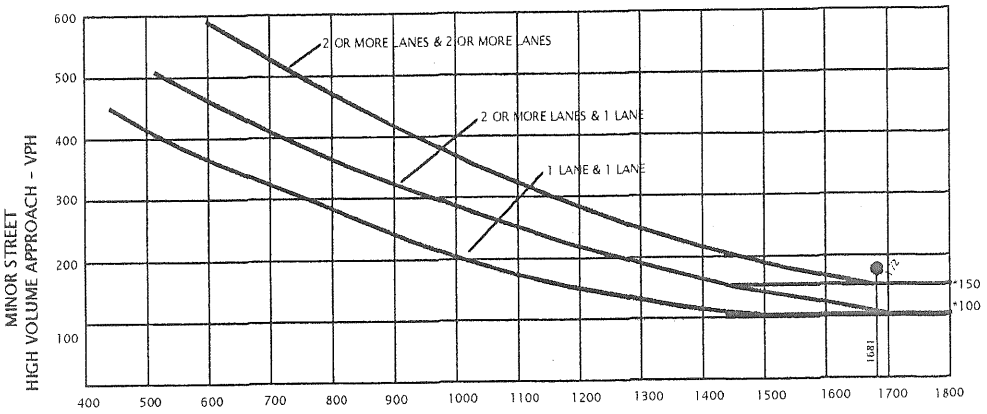
Casey & Godfrey
Consulting Engineers
263 Water Street
Gardiner, Maine 04345
tel: (207) 582-4526
fax: (207) 582-8526
e-mail: cge@lme.net

2007 Build

	SB Rte 1		Martins		NB Rte 1				
	T	L	R	L	R	T			
	2007	factored	factored	factored	factored	2007	Hourly Martins Lefts	Hourly Route 1 Both	Total
7:00	107	4	0	4	37	56			
	154	24	4	9	48	88			
	187	7	2	11	48	113			
	215	13	2	15	35	133	39	1269	1308
8:00	196	13	7	15	29	116	50	1419	1469
	180	9	4	26	44	97	67	1435	1502
	167	4	4	22	20	106	78	1377	1455
	164	7	4	11	44	132	74	1328	1402
9:00	171	20	26	9	11	170	68	1346	1414
	214	22	18	13	4	184	55	1440	1495
	202	18	33	7	2	167	40	1532	1572
	228	13	20	11	2	192	40	1620	1660
10:00	192	11	26	9	7	172	40	1630	1670
	224	9	18	13	9	204	40	1652	1692
	211	18	31	18	4	182	51	1678	1729
	239	15	22	15	2	185	55	1684	1739
11:00	214	26	20	18	4	172	64	1718	1782
	235	11	20	13	7	157	64	1682	1746
	225	7	24	13	9	170	59	1678	1737
	194	9	13	11	4	172	55	1616	1671
12:00	159	12	31	39	21	201	76	1593	1669
	176	12	24	34	21	176	97	1568	1665
	178	9	12	17	28	188	101	1560	1661
	183	24	5	19	31	171	109	1590	1699
1:00	150	14	7	22	26	170	92	1557	1649
	155	19	19	15	26	193	73	1565	1638
	170	5	5	24	28	187	80	1552	1632
	133	7	12	24	38	178	85	1499	1584
2:00	159	14	7	29	21	176	92	1509	1601
	169	7	10	31	28	154	108	1474	1582
	162	9	7	31	38	172	115	1465	1580
	165	9	2	22	26	205	113	1514	1627
3:00	159	7	2	48	26	170	132	1506	1638
	192	2	17	27	26	214	128	1582	1710
	169	2	12	46	24	171	143	1567	1710
	174	5	10	36	24	217	157	1582	1739
4:00	161	2	22	53	19	176	162	1578	1740
	175	2	10	27	19	216	162	1556	1718
	172	5	7	53	24	212	169	1603	1772
	170	5	15	35	19	245	168	1622	1790
5:00	147	0	22	48	9	222	163	1642	1805
	158	0	17	36	9	284	172	1681	1853
	141	2	15	24	5	200	143	1616	1759
	146	0	10	19	5	187	127	1515	1642

Projected Year 2007 - Build - Martins Point Main Drive

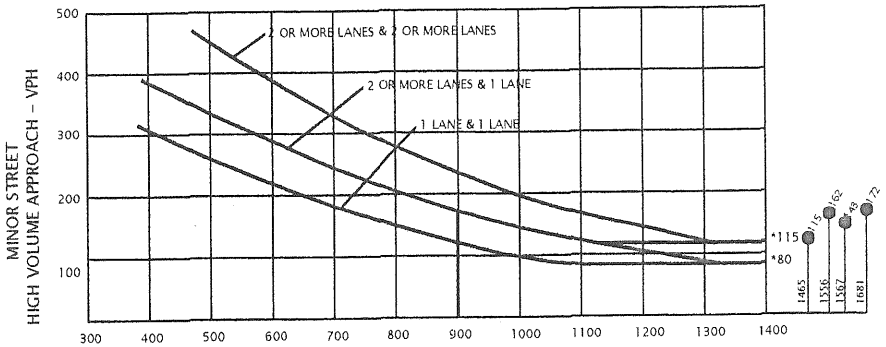
Figure 4C-3, Warrant 3, Peak Hour



*Note: 150 vph applies as lower threshold volume faor a minor street approach with two or more lanes and 100 vph applies as the lower threshold volume for a minor street approach with one lane.

Projected Year 2007 - Build - Martins Point Main Drive

Figure 4C-1, Warrant 1, Four-Hour Vehicular Volume



*Note: 115 vph applies as lower threshold volume faor a minor street approach with two or more lanes and 80 vph applies as the lower threshold volume for a minor street approach with one lane.

Table 4C-1. Warrant 1, Eight-Hour Vehicular Volume

Condition A—Minimum Vehicular Volume								
Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)			-Vehicles per hour on higher-volume minor-street approach (one direction only)		
Major Street	Minor Street	100%[a]	80%[b]	70%[c]	100%[a]	80%[b]	70%[c]
1	1	500 ✓	400 ✓	350	150 ✗	120 ✗	105
2 or more	1	600	480	420	150	120	105
2 or more	2 or more	600	480	420	200	160	140
1	2 or more	500	400	350	200	160	140

Condition B—Interruption of Continuous Traffic							
Number of lanes for moving traffic on each approach		Vehicles per hour on major street (total of both approaches)			Vehicles per hour on higher-volume minor-street approach (one direction only)		
Major Street	Minor Street	100%[a]	80%[b]	70%[c]	100%[a]	80%[b]	70%[c]
1	1	750 ✓	600 ✓	525	75 ✓	60 ✓	53
2 or more	1	900	720	630	75	60	53
2 or more	2 or more	900	720	630	100	80	70
1	2 or more	750	600	525	100	80	70

[a] Basic minimum hourly volume.
[b] Used for combination of Conditions A and B after adequate trial of other remedial measures.
[c] May be used when the major-street speed exceeds 70 km/h (40 mph) or in an isolated community with a population of less than 10,000.

Falls Short By 11 For Only 1 Hour; All Other 7 Hours Exceed.

Note: These Volumes Do Not Include Traffic From the Proposed Closed Back Drive.

Martins Point
Projected Year 2007 - Build
Signal Warrants

Casey & Godfrey
Consulting Engineers
263 Water Street
Gardiner, Maine 04345
tel: (207) 582-4526
fax: (207) 582-8526
e-mail: cge@lme.net

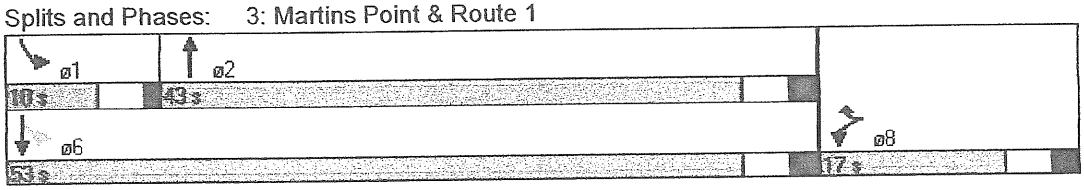
Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	75		0	150	
Storage Lanes	1	1		0	1	
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50	50		50	50
Trailing Detector (ft)	0	0	0		0	0
Turning Speed (mph)	15	9		9	15	
Satd. Flow (prot)	1805	1583	1807	0	1805	1900
Flt Permitted	0.950				0.242	
Satd. Flow (perm)	1805	1583	1807	0	460	1900
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)		17	40			
Link Speed (mph)	25		30			30
Link Distance (ft)	253		403			437
Travel Time (s)	6.9		9.2			9.9
Volume (vph)	53	16	450	156	56	751
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	2%	0%	0%	0%
Lane Group Flow (vph)	58	17	659	0	61	816
Turn Type		Prot			pm+pt	
Protected Phases	8	8	2		1	6
Permitted Phases					6	
Detector Phases	8	8	2		1	6
Minimum Initial (s)	4.0	4.0	4.0		4.0	4.0
Minimum Split (s)	16.0	16.0	16.0		9.0	18.0
Total Split (s)	17.0	17.0	43.0	0.0	10.0	53.0
Total Split (%)	24.3%	24.3%	61.4%	0.0%	14.3%	75.7%
Maximum Green (s)	12.0	12.0	38.0		6.0	48.0
Yellow Time (s)	3.0	3.0	3.0		3.0	3.0
All-Red Time (s)	2.0	2.0	2.0		1.0	2.0
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0
Recall Mode	Max	Max	Max		None	None
Act Effct Green (s)	13.1	13.1	39.2		45.0	44.9
Actuated g/C Ratio	0.20	0.20	0.59		0.64	0.68
v/c Ratio	0.16	0.05	0.60		0.15	0.63
Uniform Delay, d1	22.7	0.0	8.7		3.4	5.8
Control Delay	25.0	12.5	11.8		4.5	8.2
Queue Delay	0.0	0.0	0.0		0.0	0.0
Total Delay	25.0	12.5	11.8		4.5	8.2
LOS	C	B	B		A	A
Approach Delay	22.2		11.8			8.0
Approach LOS	C		B			A

Intersection Summary

Area Type: Other
Cycle Length: 70

Actuated Cycle Length: 66
Natural Cycle: 60
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.63
Intersection Signal Delay: 10.2
Intersection LOS: B
Intersection Capacity Utilization 49.8%
ICU Level of Service A
Analysis Period (min) 15

Splits and Phases: 3: Martins Point & Route 1

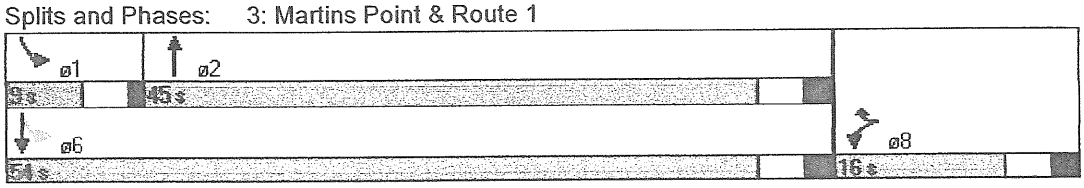


Lane Group	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Storage Length (ft)	0	75		0	150	
Storage Lanes	1	1		0	1	
Total Lost Time (s)	4.0	4.0	4.0	4.0	4.0	4.0
Leading Detector (ft)	50	50	50		50	50
Trailing Detector (ft)	0	0	0		0	0
Turning Speed (mph)	15	9		9	15	
Satd. Flow (prot)	1805	1583	1850	0	1805	1900
Flt Permitted	0.950				0.089	
Satd. Flow (perm)	1805	1583	1850	0	169	1900
Right Turn on Red		Yes		Yes		
Satd. Flow (RTOR)		62	7			
Link Speed (mph)	25		30			30
Link Distance (ft)	253		403			437
Travel Time (s)	6.9		9.2			9.9
Volume (vph)	173	57	963	58	13	647
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles (%)	0%	2%	2%	0%	0%	0%
Lane Group Flow (vph)	188	62	1110	0	14	703
Turn Type		Prot			pm+pt	
Protected Phases	8	8	2		1	6
Permitted Phases					6	
Detector Phases	8	8	2		1	6
Minimum Initial (s)	4.0	4.0	4.0		4.0	4.0
Minimum Split (s)	16.0	16.0	16.0		9.0	18.0
Total Split (s)	16.0	16.0	45.0	0.0	9.0	54.0
Total Split (%)	22.9%	22.9%	64.3%	0.0%	12.9%	77.1%
Maximum Green (s)	11.0	11.0	40.0		5.0	49.0
Yellow Time (s)	3.0	3.0	3.0		3.0	3.0
All-Red Time (s)	2.0	2.0	2.0		1.0	2.0
Lead/Lag			Lag		Lead	
Lead-Lag Optimize?			Yes		Yes	
Vehicle Extension (s)	3.0	3.0	3.0		3.0	3.0
Recall Mode	Max	Max	Max		None	None
Act Effct Green (s)	12.0	12.0	41.1		42.8	42.7
Actuated g/C Ratio	0.19	0.19	0.65		0.61	0.68
v/c Ratio	0.54	0.18	0.91		0.06	0.54
Uniform Delay, d1	24.6	0.0	11.6		3.1	4.8
Control Delay	30.5	8.8	24.3		5.0	6.7
Queue Delay	0.0	0.0	0.0		0.0	0.0
Total Delay	30.5	8.8	24.3		5.0	6.7
LOS	C	A	C		A	A
Approach Delay	25.1		24.3			6.6
Approach LOS	C		C			A

Intersection Summary	
Area Type:	Other
Cycle Length: 70	

Actuated Cycle Length: 62.8
Natural Cycle: 90
Control Type: Actuated-Uncoordinated
Maximum v/c Ratio: 0.91
Intersection Signal Delay: 18.3 Intersection LOS: B
Intersection Capacity Utilization 70.4% ICU Level of Service C
Analysis Period (min) 15

Splits and Phases: 3: Martins Point & Route 1



3: Martins Point & Route 1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Total Delay (hr)	0.3	0.0	1.3	0.3	0.2	1.8	3.9
Delay / Veh (s)	20.3	9.9	10.2	6.5	15.9	8.4	9.5
Stop Delay (hr)	0.3	0.0	0.8	0.2	0.2	1.1	2.5
St Del/Veh (s)	19.3	9.3	6.2	4.2	12.6	5.0	6.1

Total Network Performance

Total Delay (hr)	4.5
Delay / Veh (s)	11.0
Stop Delay (hr)	2.5
St Del/Veh (s)	6.2

Intersection: 3: Martins Point & Route 1

Movement	WB	WB	NB	SB	SB
Directions Served	L	R	TR	L	T
Maximum Queue (ft)	72	35	357	82	314
Average Queue (ft)	33	8	139	26	153
95th Queue (ft)	67	31	273	62	264
Link Distance (ft)	217		369		402
Upstream Blk Time (%)			0.00		0.00
Queuing Penalty (veh)			0		0
Storage Bay Dist (ft)		75		150	
Storage Blk Time (%)	0.01				0.04
Queuing Penalty (veh)	0				2

Nework Summary

Network wide Queuing Penalty: 2

3: Martins Point & Route 1 Performance by approach

Approach	WB	NB	SB	All
Total Delay (hr)	0.3	1.5	2.0	3.9
Delay / Veh (s)	18.5	9.2	8.9	9.5
Stop Delay (hr)	0.3	0.9	1.2	2.5
St Del/Veh (s)	17.6	5.6	5.4	6.1

Total Network Performance

Total Delay (hr)	4.5
Delay / Veh (s)	11.0
Stop Delay (hr)	2.5
St Del/Veh (s)	6.2

3: Martins Point & Route 1 Performance by movement

Movement	WBL	WBR	NBT	NBR	SBL	SBT	All
Total Delay (hr)	1.2	0.3	5.7	0.3	0.1	1.1	8.7
Delay / Veh (s)	24.7	19.2	21.3	17.2	21.5	6.4	16.4
Stop Delay (hr)	1.1	0.3	3.9	0.2	0.1	0.6	6.3
St Del/Veh (s)	22.9	17.5	14.7	12.6	18.7	3.6	11.8

Total Network Performance

Total Delay (hr)	9.7
Delay / Veh (s)	18.3
Stop Delay (hr)	6.3
St Del/Veh (s)	11.9

Intersection: 3: Martins Point & Route 1

Movement	WB	WB	NB	SB	SB
Directions Served	L	R	TR	L	T
Maximum Queue (ft)	205	102	389	69	271
Average Queue (ft)	87	40	299	11	117
95th Queue (ft)	155	88	459	45	215
Link Distance (ft)	217		369		402
Upstream Blk Time (%)	0.00		0.10		0.00
Queuing Penalty (veh)	0		0		0
Storage Bay Dist (ft)		75		150	
Storage Blk Time (%)	0.16	0.01			0.02
Queuing Penalty (veh)	9	1			0

Nework Summary

Network wide Queuing Penalty: 11

3: Martins Point & Route 1 Performance by approach

Approach	WB	NB	SB	All
Total Delay (hr)	1.5	6.0	1.2	8.7
Delay / Veh (s)	23.4	21.1	6.6	16.4
Stop Delay (hr)	1.4	4.1	0.7	6.3
St Del/Veh (s)	21.6	14.6	3.9	11.8

Total Network Performance

Total Delay (hr)	9.7
Delay / Veh (s)	18.3
Stop Delay (hr)	6.3
St Del/Veh (s)	11.9

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

SINGLE FAMILY ADDITIONS AND ALTERATIONS

1 Copy of the deed if you have owned the property less than 360 days
1 Copy of the site/plot plan
1 copy of the building/construction plan
1 copy of the site/plot plan and construction/building plan on paper no larger than 11" x 17".

You may submit hand drawn plans, but if they are professionally drawn we will need a set on 11" x 17".

If you are doing an exact replacement of a deck, stairs or shed it will not require a plot plan, but any change of footprint, or new structure must have a plot plan submitted in order to review the plans

A "minor/minor" site plan review is required for New Single Family Homes Only. The Site/Plot plan must be prepared and sealed by a registered land surveyor. The following must be submitted:

4 copies of the site/plot plan
1 copy of the building/construction plan on 32" x 48"
1 copy of the site plan/plot plan and construction/building plan on paper no larger than 11" x 17"

On all Commercial/Minor & Major projects must submit the following:

1 copy of the site/plot plan
2 copy of the building/construction plan on 32" x 48"
1 copy of the site/plot and construction /building plan on paper no larger than 11" X 17"

Please note that if the project requires site plan review, you will also submit the following in packet form, along with the SITE PLAN APPLICATION.

9 copies of the deed
9 copies of the site/plot plan
9 copies of the cover page of the SITE PLAN APPLICATION
9 copies of the cover letter explaining the project

THIS IS NOT A PERMIT/CONSTRUCTION CANNOT COMMENCE UNTIL THE PERMIT IS ISSUED

PLOT PLAN INCLUDES THE FOLLOWING:

- The shape and dimension of the lot, all existing buildings (if any), the proposed structure and the distance from the actual property lines. Structures include decks porches; a bow windows cantilever sections and roof overhangs, as well as, sheds, pools, garages and any other accessory structures.
- Scale and North arrow; Zoning District & Setbacks
- First Floor sill elevation (based on mean sea level datum);
- Location and dimensions of parking areas and driveways;
- Location and size of both existing utilities in the street and the proposed utilities serving the building;
- Location of areas on the site that will be used to dispose of surface water.
- Existing and proposed grade contours

A COMPLETE SET OF CONSTRUCTION DRAWINGS INCLUDES THE FOLLOWING:

- Cross Sections w/Framing details (including porches, decks w/ railings, and accessory structures)
- Floor Plans & Elevations
- Window and door schedules
- Foundation plans with required drainage and damp proofing

Electrical and plumbing layout. Mechanical drawings for any specialized equipment such as furnaces, chimneys, gas equipment, HVAC equipment (air handling) or other types of work that may require special review must be included.

SEPARATE PERMITS ARE REQUIRED FOR INTERNAL & EXTERNAL PLUMBING, HVAC AND ELECTRICAL INSTALLATIONS filed by subs

- All construction must be conducted in compliance with the 1999 B.O.C.A. Building Code as amended by Section 6-Art II.
- All plumbing must be conducted in compliance with the State of Maine Plumbing Code.
- All Electrical Installation must comply with the 1999 National Electrical Code as amended by Section 6-Art III.
- HVAC (Heating, Ventilation and Air Conditioning) installation must comply with the 1993 BOCA Mechanical Code.

Minor/Minor Site Review Fee for New Single Family homes: $300.00/Building Permit Fee: $30.00 for the 1st $1000.cost plus $6.00 per $1,000.00 construction cost thereafter.

ONE SET OF SUBMISSIONS INCLUDING CONSTRUCTION AND SITE PLAN DRAWINGS MUST BE SUBMITTED ON PAPER NO LARGER THAN 11" x 17" BEFORE ANY BUILDING PERMIT WILL BE ISSUED

Certification

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: Eugene M Reilly	**Date:** 6-15-01

Site Review Pre-Application
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling
or Commercial Structures and Additions Thereto

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

NOTE**If you or the property owner owes real estate or personal property taxes or user charges on ANY PROPERTY within the City, payment arrangements must be made before permits of any kind are accepted.

Application Date 6/15/01

Applicant Martin's Point Health care

Applicant's Mailing Address 331 Veranda Street

Project Name/Description Emergency Power Generator

Consultant/Agent Electronic Environments Corp Contractor

Address Of Proposed Site 331 Veranda Street

Applicant/Agent Daytime telephone and FAX

Assessor's Reference, Chart#, Block Lot#

Proposed Development (Check all that apply) ____ New Building ____ Building Addition ____ Change of Use ____ Residential ____ Office ____ Retail ____ Manufacturing ____ Warehouse/Distribution X Other(Specify) Install Emergency Power Generator

N/A
Proposed Building Square Footage and /or # of Units

N/A
Acreage of Site

RP Res/Prof
Zoning

You must Include the following with you application:
1) A Copy of Your Deed or Purchase and Sale Agreement
2) 9 sets of Site Plan packages containing the information found in the attached sample plans and checklist.
(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are $ 0.25 per page)

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if an approval for the proposed project or use described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant: [signature]	Date: 6-15-01

Site Review Fee: Major $500.00 Minor 400.00

This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.

PROJECT SITE FROM VERANDA STREET

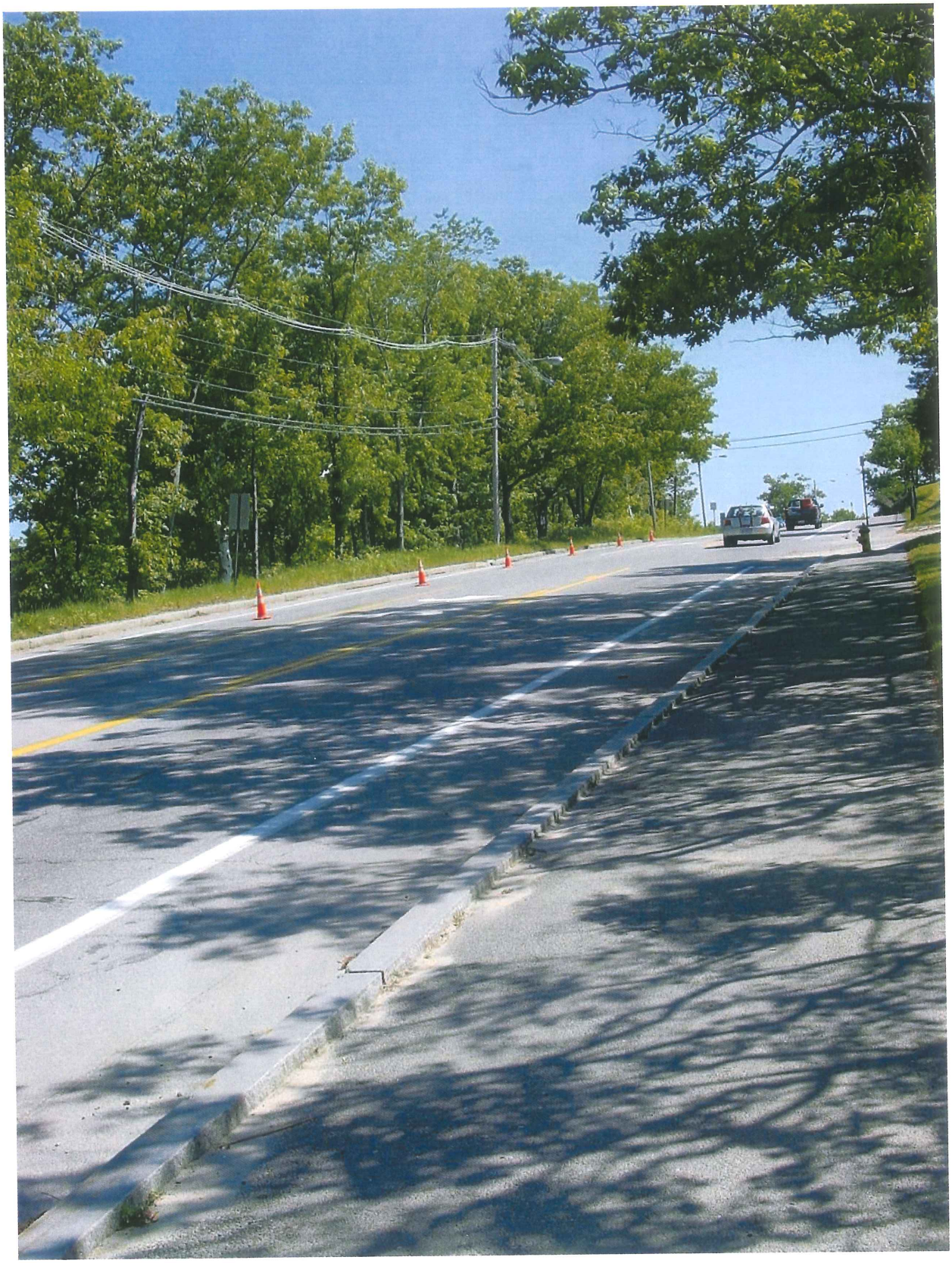
PROPOSED GENERATOR LOCATION FROM PHARMACY PARKING LOT

LOCATION FROM PHARMACY PARKING LOT - CLOSER

VERANDA STREET SOUTH FROM SITE

PROPOSED GENERATOR LOCATION FROM SOUTHWEST CORNER

PROPOSED CONCRETE PAD LOCATION



VERANDA STREET NORTH FROM SITE

DIESEL GENERATOR SETS

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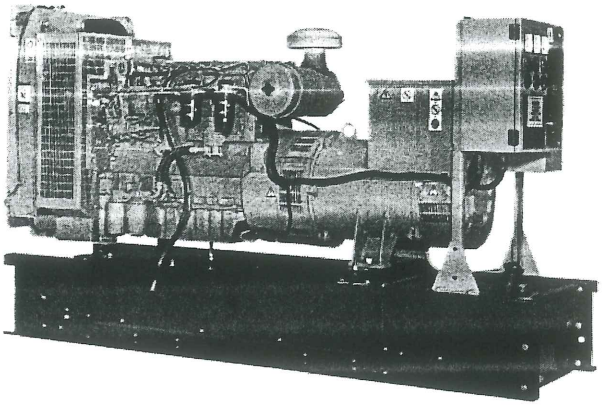

STANDBY 90-150 kW
PRIME 82.4-114 kW

60 Hz

Model	Standby kW (kVA)	Prime kW (kVA)
D90P1	90 (112.5)	82.4 (103)
D100P1	100 (125)	90 (112.5)
D100P2*	100 (125)	90 (112.5)
D125P1	125 (156.3)	114 (142.5)
D125P2*	125 (156.3)	114 (142.5)
D150P1	150 (187.5)	N/A

*EPA Approved, Emissions Certified

FEATURES

GENERATOR SET
- Complete system designed and built at ISO 9001 certified facilities
- Factory tested to design specifications at full load conditions

ENGINE
- Governor, electronic (D125P1, D125P2, D150P1)
- Governor, mechanical (D90P1, D100P1, D100P2)
- Electrical system, 12 VDC
- Cartridge type filters
- Battery(s), rack and cables
- Coolant and lube drains piped to edge of base

GENERATOR
- Insulation system, class H
- Drip proof alternator air intake (NEMA 2, IP23)
- Electrical design in accordance with BS5000 Part 99, IEC34-1, VDE0530, UTE51100, NEMA MG-1.22

CONTROL SYSTEM
- 2001 Autostart control panel
- Vibration isolated NEMA 1 enclosure with lockable hinged door
- DC and AC wiring looms

MOUNTING ARRANGEMENT
- Heavy-duty fabricated steel base with lifting points
- Directly mounted 10 dB(A) silencer
- Complete OSHA guarding
- Flexible fuel lines to base with NPT connections
- Anti-vibration pads to ensure vibration isolation
- Stub-up pipe ready for connection to silencer pipework

COOLING SYSTEM
- Radiator and cooling fan complete with protective guards
- Standard ambient temperatures up to 122° F (50° C)

CIRCUIT BREAKER
- UL/CSA listed
- 3-pole with solid neutral
- NEMA 1 steel enclosure, vibration isolated
- Electrical stub-up area directly below circuit breaker

AUTOMATIC VOLTAGE REGULATOR
- Voltage within ± 0.5% at steady state from no load to full load
- Provides fast recovery from transient load changes

EQUIPMENT FINISH
- All electroplated hardware
- Anticorrosive paint protection
- High gloss polyurethane paint for durability and scuff resistance

QUALITY STANDARDS
- BS4999, BS5000, BS5514, IEC34, VDE0530, NEMA MG-1.22, NFPA 110 (with optional equipment)

DOCUMENTATION
- Operation and maintenance manuals provided
- Wiring diagrams included

WARRANTY
- 12 months from date of initial start-up or 18 months from shipping, whichever occurs first

STANDBY 90-150 kW
PRIME 82.4-114 kW
60 Hz

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OPTIONAL EQUIPMENT*

ENCLOSURE
- Weather protective enclosure (includes internal silencer system)
- Single point lift
- Panel viewing window
- External emergency stop pushbutton
- Sound attenuated enclosure (includes internal silencer system)
- Super sound attenuated enclosure (includes internal silencer system) (N/A D125P1, D150P1)

SILENCER SYSTEM — OPEN UNIT
- Level 1 "residential"
- Level 2 "critical"
- Level 3 "super critical"
- Mounting kit
- Through-wall installation kit

ENGINE
- Electronic governor
- Battery heater
- Lube oil drain valve
- Lube oil drain pump
- High lube oil temperature shutdown
- Lube oil sump heater

CIRCUIT BREAKER
- Auxiliary voltfree contacts
- Shunt trip (100+ amp breakers)

GENERATOR
- Anti-condensation heater
- Drip proof alternator air intake
- Permanent magnet generator
- AREP excitation system
- Alternator upgrade 1 size (except D150P1)

CONTROL SYSTEM
- No control system
- 4001 Series Autostart control panel
- 4001E Series Autostart control panel
- Access 4000 digital control panel
- 6000 Series digital control panel

FUEL SYSTEM
- Single-walled plastic fuel tank (8-hour for open sets)
- UL listed closed top-diked skid-mounted fuel tank base (12/24-hour capacity)
- Critical high fuel alarm
- Fuel fill prevention solenoid
- AC and DC fuel transfer systems
- Manual fuel pump

REMOTE ANNUNCIATORS
- 8- and 16-channel remote annunciator panel (supplied loose)
- Remote annunciator upgrade normal/run control switch
- Remote annunciator upgrade lockdown emergency stop button

COOLING SYSTEM
- Coolant heater
- Low coolant temperature alarm
- Low coolant level shutdown
- Radiator transition flange

MISCELLANEOUS ACCESSORIES
- Toolkit
- Additional operator's manual pack
- Special enclosure color
- CSA certification
- French language labels

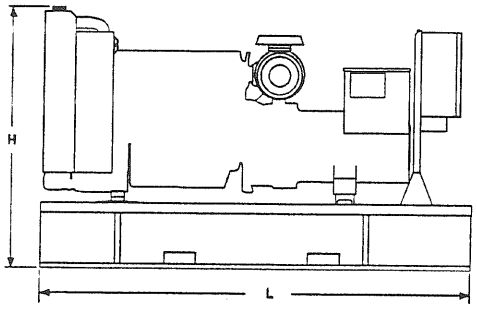
EXTENDED WARRANTY
- 24 months
- 36 months
- 48 months
- 60 months

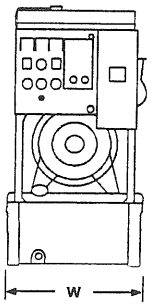
(See warranty policy for details of coverage)

TESTING
- Special factory test (0.8 pf test, extended time test, etc.)
- Factory witness test (restricted to 6 hours — full load, 1.0 pf)

*Some options may not be available on all models. Not all options are listed.

GENERATOR SET DIMENSIONS AND WEIGHTS





Model	Length in (mm)	Width in (mm)	Height in (mm)	Weight lbs (kg)**
D90P1	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D100P1	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D100P2	94.5 (2400)	29.5 (750)	56.5 (1435)	2695 (1222)
D125P1	106 (2700)	35.4 (900)	57.5 (1460)	3124 (1417)
D125P2	106 (2700)	35.4 (900)	57.5 (1460)	3125 (1417)
D150P1	106 (2700)	35.4 (900)	57.5 (1460)	3246 (1472)

NOTE: General configuration not to be used for installation. See specific dimensional drawings for detail.

**Includes oil and coolant

STANDBY 90 - 150 kW
PRIME 82.4 - 114 kW
60 Hz

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SPECIFICATIONS

GENERATOR

Voltage Regulation ..... ±1.0%, no load to full load
Frequency ..... ±0.8% for constant load, no load to full load
Waveform Distortion ..... THD < 1.8%, at no load
Radio Interference ..... Compliance with BS800 and VDE Class G&N
Telephone Interference ..... TIF <50, THF <2%
Overspeed Limit ..... 2250 rpm
Insulation ..... Class H
Temperature Rise ..... Within Class H limits
Available Voltages 480/277, 460/266, 240/120, 220/127, 208/120, 600/347
Deration ..... Consult factory for available outputs
Ratings ..... At 86° F (30° C), 500 ft. (152.4 m), 60% humidity, 0.8 pf

ENGINE

Manufacturer ..... Perkins
Type 4-Cycle
Cylinder Configuration ..... In-line 6
Displacement — cu in (L) 366 (6.0)
Bore — in (mm) 3.94 (100.0)
Stroke — in (mm) 5.00 (127.0)
Compression Ratio
- D90P1, D100P1, D100P2, D125P1, D150P1 .... 16.0:1
- D125P2 ..... 17.0:1

Governor
- Type
  - D90P1, D100P1, D100P2 ..... Mechanical
  - D125P1, D125P2, D150P1 ..... Electronic
- Class A1

Piston Speed — ft/sec (m/sec) 25.0 (7.62)
Engine speed — rpm 1800
Air Cleaner Type ..... Dry, replaceable paper element type with restriction indicator
Regenerative Power — kW 16.2

D90P1 — 1006TG1A
Max Power at Rated rpm — hp (kW)
- Standby 152 (113)
- Prime 136 (102)

BMEP — psi (kPa)
- Standby 183 (1259)
- Prime 164 (1133)

Aspiration ..... Turbocharged

D100P1 — 1006TG2A
Max Power at Rated rpm — hp (kW)
- Standby 166 (124)
- Prime 151 (112)

BMEP — psi (kPa)
- Standby 202 (1393)
- Prime 182 (1253)

Aspiration ..... Turbocharged

D100P2 — 1006-6T
Max Power at Rated rpm — hp (kW)
- Standby 166 (124)
- Prime 150 (112)

BMEP — psi (kPa)
- Standby 200 (1376)
- Prime 182 (1253)

Aspiration ..... Turbocharged

D125P1 — 1006TAG
Max Power at Rated rpm — hp (kW)
- Standby 219 (163)
- Prime 201 (150)

BMEP — psi (kPa)
- Standby 266 (1836)
- Prime 234 (1610)

Aspiration ..... Turbocharged, AA Charge

D125P2 — 1006TA
Max Power at Rated rpm — hp (kW)
- Standby 216 (162)
- Prime 197 (147)

BMEP — psi (kPa)
- Standby 262 (1799)
- Prime 238 (1635)

Aspiration ..... Turbocharged, AA Charge

D150P1 — 1006TAG1
Max Power at Rated rpm — hp (kW)
- Standby 219 (163)
- Prime ..... N/A

BMEP — psi (kPa)
- Standby 266 (1836)
- Prime ..... N/A

Aspiration ..... Turbocharged, AA Charge Cooled

CONTROL PANEL

NEMA 1 steel enclosure with lockable hinged door
Vibration isolated mounted Autostart control panel
Single location customer connector point
Electrical stub-up area directly below control panel

RATING DEFINITIONS

Standby — Applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The generator is peak rated (as defined in ISO8528-3) at 86° F.

Prime — Applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and the generator set can supply 10 percent overload power for 1 hour in 12 hours.

Consult your Olympian representative for more information.

www.cat-engines.com

LEHX9506 (3-00)

Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.

STANDBY 100 kW
PRIME 90 kW
60 Hz

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D100P1 (3-Phase)

Materials and specifications are subject to change without notice.

Generator Set Technical Data — 1800 rpm/60 Hz		Standby	Prime
Power Rating	kW (kVA)	100 (125.0)	90 (112.5)
Lubricating System			
Type: Full Pressure			
Oil Filter: Spin-On, Full Flow			
Oil Cooler: Watercooled			
Oil Type Required: API CD 15W-40			
Total Oil Capacity	U.S. gal (L)	4.3 (16.1)	4.3 (16.1)
Oil Pan	U.S. gal (L)	3.5 (13.1)	3.5 (13.1)
Fuel System			
Generator Set Fuel Consumption			
100% Load	g/hr (L/hr)	8.07 (30.53)	7.30 (27.63)
75% Load	g/hr (L/hr)	6.19 (23.42)	—
50% Load	g/hr (L/hr)	4.48 (16.95)	—
Engine Electrical System			
Voltage/Ground: 12/Negative			
Battery Charging Alternator Ampere Rating	amps	55	55
Cooling System			
Water Pump Type: Centrifugal			
Radiator System Capacity Incl. Engine	U.S. gal (L)	7.3 (27.7)	7.3 (27.7)
Maximum Coolant Static Head	ft H_2O (m H_2O)	26.2 (8.0)	26.2 (8.0)
Minimum Temperature to Engine	°F (°C)	158 (70)	158 (70)
Temperature Rise Across Engine	°F (°C)	13.9 (7.7)	13.9 (7.7)
Heat Rejected to Coolant at Rated Power	Btu/min (kW)	4550 (80.0)	4095 (72.0)
Total Heat Radiated to Room at Rated Power	Btu/min (kW)	2361 (41.5)	1917 (33.7)
Radiator Fan Load	hp (kW)	9.8 (7.3)	9.8 (7.3)
Air Requirements			
Combustion Air Flow	cfm (m³/min)	257 (7.8)	261 (7.4)
Maximum Air Cleaner Restriction	in H_2O (kPa)	20 (5.0)	20 (5.0)
Radiator Cooling Air	cfm (m³/min)	8200 (232)	8200 (232)
Alternator Cooling Air	cfm (m³/min)	985 (27.9)	985 (27.9)
Exhaust System			
Maximum Allowable Backpressure	in Hg (kPa)	1.8 (6.0)	1.8 (6.0)
Exhaust Flow at Rated kW	cfm (m³/min)	794 (22.5)	705 (20.0)
Exhaust Flow at Rated kW — Dry Exhaust	°F (°C)	1076 (580)	1004 (540)
Generator Set Noise Rating*			
(Without Attenuation) at 3 ft (1 m)	dB(A)	95	95

Alternator Technical Data		600/347V	480/277V	460/266V	240/120V 208/120V	220/127V
Motor Starting Capability:	(kVA)					
	Self Excited	190	190	175	140	167
	PM Excited**	215	215	195	160	180
	AREP Excited	TBA	TBA	TBA	TBA	TBA
Full Load Efficiencies:	Standby	90.5	90.5	90.3	89.3	89.9
	Prime	90.8	90.8	90.6	89.6	90.2
Reactances (per unit):	X_d	3.94	3.94	4.28	5.23	4.68
	X'_d	0.155	0.155	0.166	0.199	0.177
Reactances shown are applicable to the standby rating.	X''_d	0.092	0.092	0.100	0.122	0.110
	X_q	2.36	2.36	2.57	3.14	2.81
	X''_q	0.114	0.114	2.124	0.152	0.135
	X_2	0.103	0.103	0.112	0.137	0.122
	X_0	0.006	0.006	0.006	0.006	0.006
Time Constants:		T'_d 0.100 sec	T''_d 0.010 sec	T'_{do} 2.576 sec	T_a 0.015 sec	

* dB(A) levels are for guidance only
** With PMG Excited Option AR12

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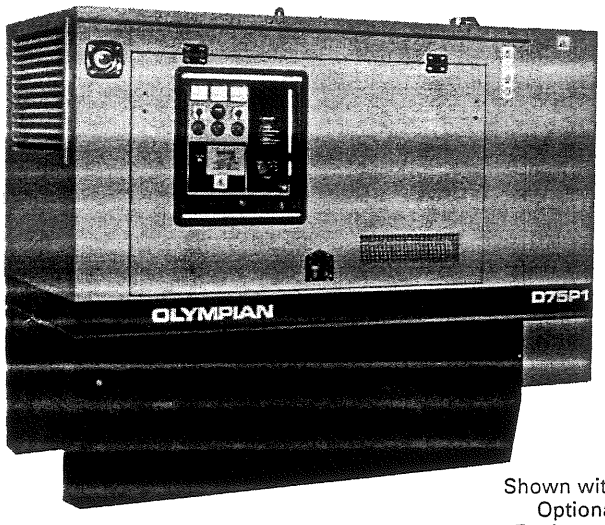

Shown with Optional Equipment

CAE – SOUND ATTENUATED WEATHERPROOF ENCLOSURES

D20P1–D100P2
D20P1S–D100P2S

These fully weatherproof, sound attenuated, factory installed, enclosures incorporate internally mounted exhaust silencers and non-UL listed steel base tanks. Optional UL listed tanks are available. These enclosures are of extremely rugged construction to withstand outdoor exposure and rough handling common on many construction sites. They are designed on modular principles with many interchangeable components permitting on-site repair.

FEATURES

HIGHLY CORROSION RESISTANT CONSTRUCTION

- Body made from galvanized steel
- Stainless steel flush fitting latches and hinges tested and proven to withstand extreme conditions of corrosion
- Zinc plated or stainless steel fasteners
- Sheet steel components pre-treated with zinc phosphate prior to polyester powder coating at 392°F (200°C)

EXCELLENT ACCESS FOR MAINTENANCE

- Full length extra wide doors on each side
- Doors top hung and supported by gas struts
- Radiator fill access
- Lube oil and cooling water drains piped to exterior of the enclosure skidbase

SECURITY AND SAFETY

- Lockable access doors
- Control panel viewing window in a lockable access door
- Emergency stop push button (red) mounted flush on exterior enclosure wall
- Stub-up cover sheets for "rodent proofing"
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors (only provided when optional fuel tank is ordered)
- Exhaust silencing system totally enclosed for operator safety

TRANSPORTABILITY

- Lifting points on baseframe
- Tested and certified single point lifting facility

OPTIONS

- FSK Skidbase (without integral fuel tank)

ENCLOSURES OLYMPIAN™

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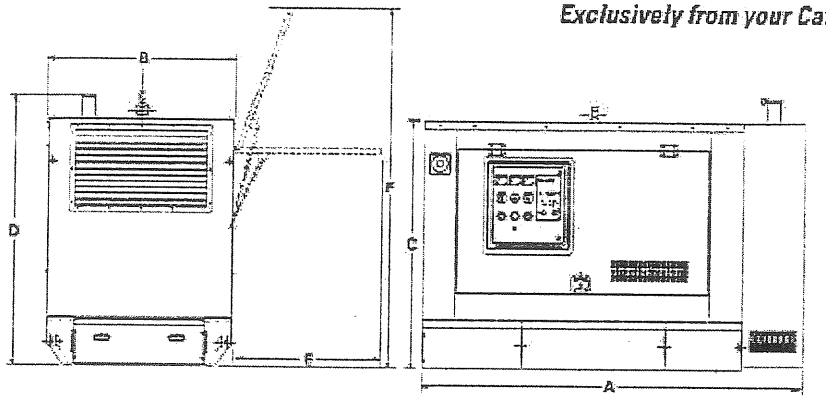

SOUND ATTENUATED WEATHERPROOF ENCLOSURES "C" SERIES
DIMENSIONS AND WEIGHTS
(with non-UL listed base tank)

Generator Set Model	A mm (in)	B mm (in)	C mm (in)	D mm (in)	E mm (in)	F mm (in)	Fuel Capacity L (US Gal)	Weight* kg (lb)
D20P1–D25P1	2090 (82.3)	950 (37.4)	1450 (57.1)	1558 (61.3)	883 (34.8)	2010 (79.1)	200 (52.8)	993 (2189)
D20P2–D25P2, D30P4	2090 (82.3)	950 (37.4)	1450 (57.1)	1685 (66.3)	883 (34.8)	2010 (79.1)	200 (52.8)	1012 (2231)
D30P3	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1230 (2712)
D40P3, D40P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1280 (2822)
D50P3, D50P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1345 (2965)
D60P3, D60P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1375 (3031)
D75P3, D75P2	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1415 (3120)
D90P1–D100P1, D100P2	2805 (110.4)	1100 (43.3)	1500 (59.1)	1610 (63.4)	885 (34.8)	2030 (79.9)	300 (79.3)	1787 (3940)
D20P1S–D25P1S	2090 (82.3)	950 (37.4)	1450 (57.1)	1558 (61.3)	883 (34.8)	2010 (79.1)	200 (52.8)	1058 (2332)
D20P2S–D25P2S	2090 (82.3)	950 (37.4)	1450 (57.1)	1685 (66.3)	883 (34.8)	2010 (79.1)	200 (52.8)	1067 (2352)
D30P3S, D30P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1280 (2822)
D40P3S, D40P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1350 (2976)
D50P3S, D50P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1415 (3120)
D60P3S, D60P2S	2250 (88.6)	1100 (43.3)	1500 (59.1)	1644 (64.7)	885 (34.8)	2080 (81.9)	250 (66.1)	1465 (3230)
D75P1S–D90P1S, D75P2S	2805 (110.4)	1100 (43.3)	1500 (59.1)	1610 (63.4)	885 (34.8)	2030 (79.9)	300 (79.3)	1912 (4215)
D100P1S, D100P2S	3900 (153.5)	1300 (51.2)	1850 (72.8)	2024 (79.7)	950 (37.4)	NA	550 (145.3)	1967 (4338)

*Net weight with lube oil and coolant, no fuel, quoted for largest model in range.

SOUND LEVELS

Generator Set Model	1800 rpm (60 Hz)					
	15 m (50 ft)		7 m (23 ft)		1 m (3 ft)	
	No Load (dBA)	Full Load (dBA)	No Load (dBA)	Full Load (dBA)	No Load (dBA)	Full Load (dBA)
D20P1, D20P1S, D25P1, D25P1S	63	65	68	70	79	81
D20P2, D20P2S, D25P2, D25P2S, D30P4	68	70	72	76.5	80	84
D30P3, D30P3S, D40P3, D40P3S	66	68.3	72	74.3	83.2	84.6
D40P2, D40P2S, D30P2S	66	69	72	75	84	88
D50P3, D60P3, D60P3S	64.5	65.4	70.5	71.4	81.1	82.2
D50P3S, D75P3	64.5	66	70.5	72	81.1	82.7
D50P2, D50P2S, D60P2, D60P2S, D75P2	62	65	67	71	79	83
D90P1, D100P1, D90P1S, D100P1S, D75P1S, D100P2, D75P2S, D100P2S	64	67	70	73	80	84

The sound pressure level data shown is quoted as free field and is for guidance only. Actual levels produced may vary according to site conditions.

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LEHX0429 (05-08)

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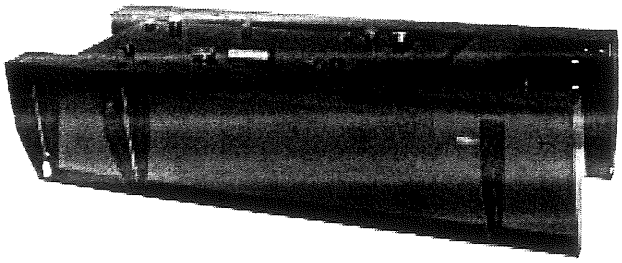
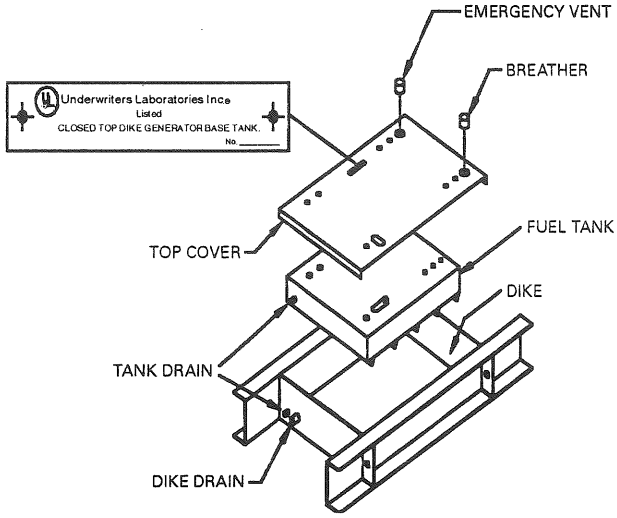


UL LISTED FUEL TANKS

FCUL1 — 12 HR

FCUL2 — 24 HR



CLOSED TOP DIKED SKID BASE FUEL TANK

The generator set skid base contains an integral, UL listed, steel fuel storage tank with diked rupture basin for the containment of fuel resulting from a tank leak or rupture. In addition to containment of fuel, the rupture basin will also contain the loss of engine lube oil and coolant fluids. The rupture basin is integrally vented and has a closed top to prevent the ingress of precipitation, debris or other elements. The tank is leak tested to 3 psi and pressure tested to 15 psi. The base tank is UL142 listed for Steel Above Ground Tanks for Flammable and Combustible Liquids under the "Special Purpose Tanks" category. They are intended for installation in accordance with the Flammable and Combustible Liquids Code, NFPA 30 of the National Fire Protection Association.

FEATURES

CONSTRUCTION

- Manufactured entirely from 4 mm (8 gauge) steel
- Continuously welded seams
- Formed steel channel type side beams
- Unitized load bearing structure
- Integral lifting points
- Corrosion resistant precoat
- Listed to UL142
- Closed top diked base tank

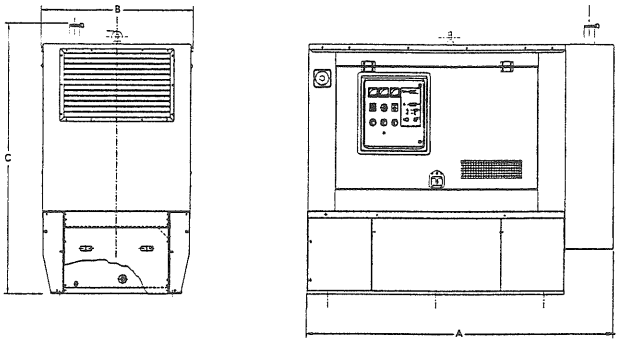
AESTHETICS

- Continuous high gloss finish
- Polyester powder composite
- Extremely durable and corrosion resistant

DESIGN FEATURES

- Unique integral base and tank design
- Developed specifically for open or enclosed generator sets
- Containment capacity for fuel, lube and coolant fluids
- Internal baffles arranged to prevent recirculation of heated return fuel
- Brass composite 2" filler cap
- Mechanical fuel gauge
- Fuel capacities to provide typically 12 and 24 hour standby operation
- Primary vent with breather
- Vent located accessible for adapting to remote venting
- Venting areas to UL142 specifications
- Leak detection switch
- Emergency vent for main tank
- Weatherproof diked containment basin
- External NPT drain fittings for fuel tank and containment basin
- Removable base-end cover plate encloses stub-up area when used with enclosures

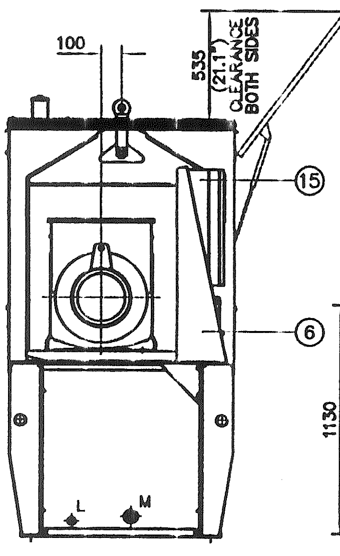
Exclusively from your Caterpillar® dealer



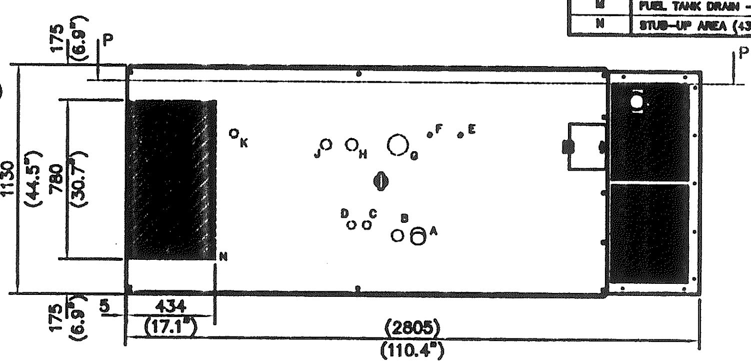
SOUND ATTENUATED ENCLOSED GENERATOR SETS WITH CAE ENCLOSURE DIMENSIONS AND WEIGHTS WITH UL LISTED FUEL TANK

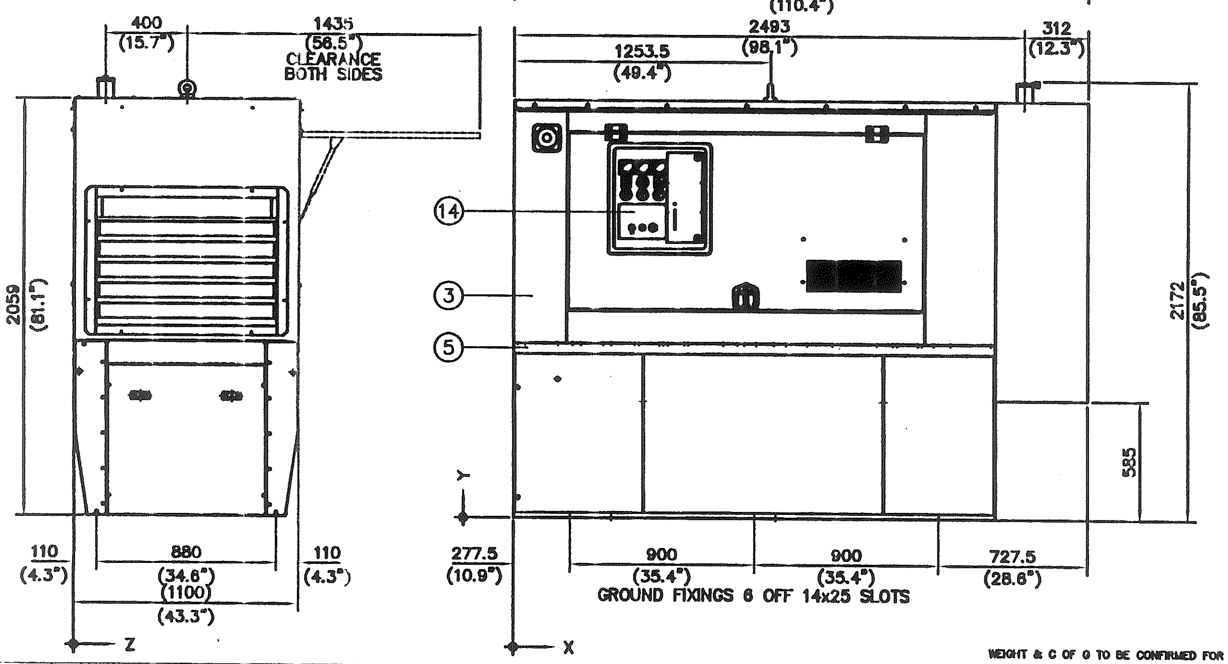
Generator Set Model	Tank Capacity, liters (US gallons)		Generator Dimensions, mm (in)				Weight kg (lb)	
			Length	Width	Height, 12 hr	Height, 24 hr		
	12 hr	24 hr	A	B	C	C	12 hr	24 hr
D20P1, D25P1, D20P2, D25P2, D30P4	NA	224 (59.2)	2090 (82.3)	980 (38.6)	NA	1710 (67.3)	NA	777 (1712.5)
D30P3	NA	425 (112.3)	2252 (89.3)	1130 (44.5)	NA	1960 77.2)	NA	1461 (3220)
D40P3, D40P2	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1893 (74.5)	NA	1657 (3652)
D50P3, D60P3, D50P2, D60P2	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1940 (76.4)	NA	1725 (3802)
D75P3, D75P2	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1940 (76.4)	NA	1761 (3881)
D90P1, D100P1, D100P2	273 (72.1)	849 (224.3)	2805 (110.4)	1130 (44.5)	1732 (68.2)	2172 (85.5)	1305 (2878)	1762 (3883)
D20P1S, D25P1S, D20P2S, D25P2S	NA	224 (59.2)	2090 (82.3)	980 (38.6)	NA	1710 (67.3)	NA	807 (1778)
D30P3S, D40P3S, D30P2S, D40P2S	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1893 (74.5)	NA	1721 (3793)
D50P3S, D60P3S, D50P2S, D60P2S	NA	425 (112.3)	2258 (89.3)	1130 (44.5)	NA	1940 (76.4)	NA	1762 (3883)
D75P1S, D90P1S, D75P2S, D90P2S	273 (72.1)	849 (224.3)	2805 (110.4)	1130 (44.5)	1732 (68.2)	2172 (85.5)	2119 (4670)	2519 (5552)
D100P1S, D100P2S	NA	NA	NA	NA	NA	NA	NA	NA

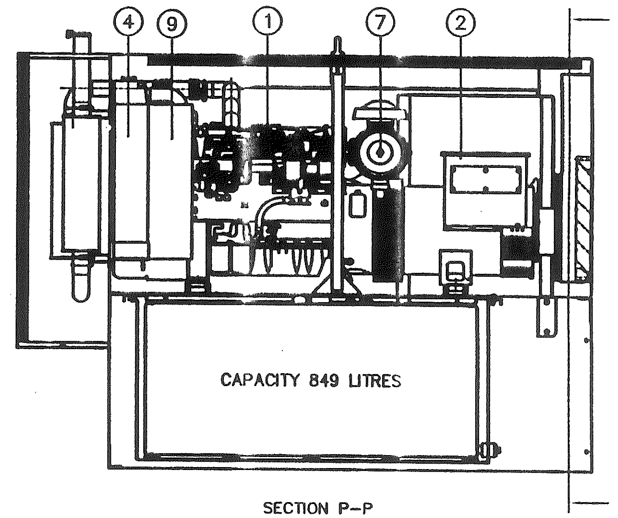
Weight with lube oil and coolant



SECTION Q-Q







SECTION P-P

SOCKET	DESCRIPTION	DIM X	DIM Y	DIM Z
A	MANUAL FUEL FILL – 2" BSP SOCKET	1427 (56.2")	830 (32.7")	276 (10.8")
B	FUEL LEVEL GAUGE – 1½" BSP HALF SOCKET	1327 (52.2")	830 (32.7")	276 (10.8")
C	FUEL LEVEL SWITCH – 1" BSP HALF SOCKET	1177 (46.3")	830 (32.7")	276 (10.8")
D	REMOTE FUEL SUPPLY – 1" BSP HALF SOCKET	1102 (43.4")	830 (32.7")	310 (12.2")
E	FUEL RETURN – 3/8" BSP SOCKET	1632 (64.2")	830 (32.7")	861 (33.9")
F	FUEL SUPPLY – 3/8" BSP SOCKET	1462 (58.3")	830 (32.7")	861 (33.9")
G	FUEL TANK EMERGENCY VENT – 3" BSP SOCKET	1327 (52.2")	830 (32.7")	804 (31.6")
H	REMOTE FUEL RETURN – 1½" BSP SOCKET	1102 (43.4")	830 (32.7")	710 (28.0")
J	FUEL TANK BREATHER – 1½" BSP SOCKET	977 (38.5")	830 (32.7")	806 (31.6")
K	LEAK DETECTION PROBE – 1" BSP HALF SOCKET	528 (20.8")	860 (33.8")	693 (27.3")
L	BUND TANK DRAIN – 1" BSP SOCKET	501 (19.7")	91 (3.6")	264 (10.4")
M	FUEL TANK DRAIN – 2" BSP SOCKET	501 (19.7")	117 (4.6")	550 (21.6")
N	STUB-UP AREA (434x780)	217 (8.5")	860 (33.8")	566 (22.2")

ITEM	QTY.	DESCRIPTION	DWG./PART NO.
1	1	ENGINE	SEE TABLE
2	1	ALTERNATOR	SEE TABLE
3	1	CANOPY GROUP	MG52001
4	1	RADIATOR GROUP	MG52447
5	1	TANKBASE GROUP	MG52431
6	1	PANEL STAND GROUP	MG52427
7a	1	AIR FILTER ASSEMBLY FOR 1006TG1/2	MG52600
• 7b	1	AIR FILTER ASSEMBLY FOR 1006-6T	MG52772
8	1	FAN GUARD GROUP	MG52470
• 9	1	FUEL LINE GROUP	MG52482
• 10	1	COUPLING GROUP	MG52571
• 11	1	SENDERS & SENSORS GROUP	MG52429
• 12	1	DECAL GROUP (ONA)	MG52049
• 13	1	EM UPFIT	MG52414
14	1	CONTROL PANEL (IF FITTED)	–
15	1	CIRCUIT BREAKER PANEL (IF FITTED)	–
• 16	1	LVI-LUBE OIL DRAIN GROUP	MG52797
• 17	1	WVI- COOLANT DRAIN GROUP	MG52798

• ITEM NOT SHOWN

NOTE: DIMENSIONS STATED IN BOTH MILLIMETRES AND INCHES

ENG/ALT COMBINATION	ENG PART No.	ALT PART No.	WEIGHT (Kg)		CENTRE OF GRAVITY	
			WITH OIL	WITH OIL & WATER	DIM X	DIM Y
1006TG1A / LL3014B	100-007	110-[illegible]	[illegible]	2384	1310 (51.6")	1235 (48.6")
1006TG2A / LL3014B	100-008	110-[illegible]	[illegible]	2384	1310 (51.6")	1235 (48.6")
1006.6T / LL3014B	100-068	110-[illegible]	[illegible]	2384	1310 (51.6")	1235 (48.6")
1006TG1A / LL3014F	100-007	110-[illegible]	2401	2010	1325 (52.2")	1235 (48.6")
1006TG2A / LL3014F	100-008	110-[illegible]	2401	2010	1325 (52.2")	1235 (48.6")
1006.6T / LL3014F	100-068	110-[illegible]	2401	2010	1325 (52.2")	1235 (48.6")

WEIGHT & C OF G TO BE CONFIRMED FOR ALL SETS

ISSUE	DESCRIPTION	ECN/ECR	BY	DATE
F	BASEFRAME WAS [illegible] NOW [illegible]	[illegible]	GL	[illegible]
E	[illegible] ALT PART NUMBERS [illegible] 110-[illegible] & 110-[illegible]	–	DJW	[illegible]
D	[illegible] ITEM 15 PREVIOUSLY [illegible]	–	DJW	[illegible]
C	[illegible] ITEM 6 PREVIOUSLY [illegible]	–	KR	[illegible]
B	ADDITION OF NEW REAR CLOSING PLATE [illegible]	–	YCT	[illegible]
A	FIRST ISSUE	–	–	–
G	ADDED AIR FILTER REFERENCES FOR 1006TG1/2 & 1006-6T	[illegible]	SLF	[illegible]

TOLERANCES EXCEPT WHERE OTHERWISE STATED
0 – 500mm ± 1mm
500 – 2000mm ± 2mm
OVER 2000mm ± 3mm
STRUCTURAL ± 3mm
ANGULAR ± 1°

DO NOT SCALE

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

3rd ANGLE PROJECTION

DRN. BY	DJL
DATE	27/03/98
APPD. BY	
DATE	31.07.00

TITLE: G.A. OF 1006TG1A/TG2A, 1006.6T & LL3014B/F S.A. CANOPY SETS ON 24 HOUR UL TANKBASE

SHEET SIZE	ORIGINAL SCALE	DRAWING NO.	ISSUE
A1	1:12.5	MGA3886	G

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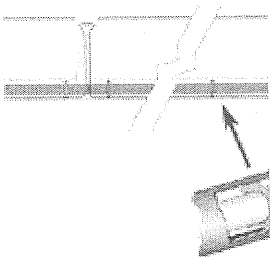
[products/_private/components/sidebar.html]

Products

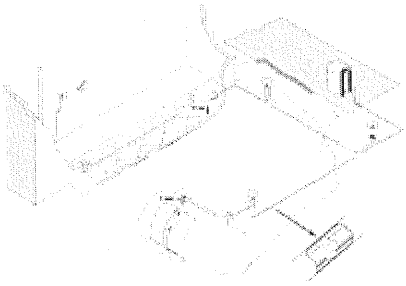
Double containment

In locations where fuels, chemicals, or hazardous wastes are s
handled, federal and local agencies often require double cont
leak detection



■ TraceTek sensing cable monitors along the entire length of piping (for hundreds or even thousands of feet). The alarm and locating module indicates the location, which helps minimize the time and cost of responding to a leak.

■ Installation of sensing cable along containment trenches en
detection of hazardous chemicals and viscous fluids.



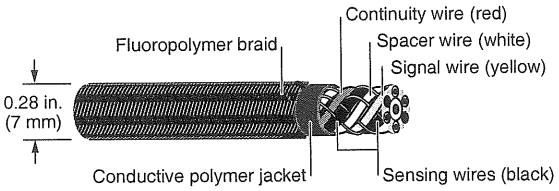
■ A single TraceTek a
locating module monit
of areas—including tre
piping branches, and t
integrates them into on

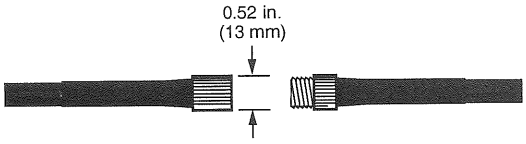
■ An alarm m
■ A leader and
cable
■ Sensing cab
■ Accessories

Literature Online
TT3000 Conductive Liquid Sensing Cable Data Sheet H5382
TT5000 Hydrocarbon Sensing Cable Data Sheet H54785
TTDM Alarm and Locating Module Data Sheet H55470
TTDM-NMM Network Master Module Data Sheet H55867
TTDM-SIM Sensor Interface Module Data Sheet H55868
TTG Multiple Channel Alarm Module Data Sheet H53053
Key Parameters for Double Containment Piping Design H30(
Sample Configurations for Industrial/Environmental Applicat
Product Selection Guide for Industrial/Environmental Applic
H55869

[products/_private/components/emails.html]

TT5000 Fuel-Sensing Cable





Drawing not to scale

Product characteristics

Cable diameter	0.28 in. (7 mm) nominal
Cable diameter with connector	0.52 in. (13 mm) nominal
Cable weight (50-ft length)	2.4 lb
Operating temperature range	–20°C to 60°C (–4°F to 140°F)
Pull force limit	Not to exceed 50 lb
Bend radius	2 in. (50 mm) minimum
Pressure	Loads greater than 20 lb (9 kg) per linear inch at 20°C (68°F) may immediately trigger an alarm.
Nonresettable	Must be replaced after exposure to hydrocarbon liquids.

Chemical resistance

Cable functions normally after exposure in accordance with ASTM D 543 at 23°C (73°F) for seven days:	Sulfuric acid (10%) Hydrochloric acid (10%) Nitric acid (10%) Sodium hydroxide (10%)

Water resistance

Sensing cable	Less than 10-μA leakage when immersed in salt water for 90 days.
Connector system	Less than 10-μA leakage when immersed in water at 10 psig for 24 hours.

Response time

Representative materials detected:	Typical response time at 20°C (68°F):
Gasoline	12 minutes
#1 diesel fuel	60 minutes
#2 diesel fuel	120 minutes
JP5 jet fuel	70 minutes
JP8 jet fuel	50 minutes
Jet-A jet fuel	50 minutes
Xylene	20 minutes

Notes:
- Response Time Test Method: "Test Procedures for Third Party Evaluation of Leak Detection Methods; Cable Sensor Liquid Contact Leak Detection Systems."
- Response times are affected by operating temperature. Consult factory for specific response times at other temperatures and in other liquids.

Approvals

UL LISTED FM APPROVED CSA

Sensing cable may be used in Class I, Division 2, Groups A, B, C, D Hazardous Locations. If wiring from module meets requirements for intrinsic safety, sensing cable may be used in Class I, Division 1, Groups A, B, C, D Hazardous Locations (Zone 0 or Zone 1 in Europe).

ISO 9001

The TraceTek products group is a part of Raychem Chemelex Division. Chemelex Division is ISO 9001 certified.

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Printed in USA H54785 10/96

Raychem

TT5000

TraceTek Fuel-Sensing Cable

TraceTek TT5000 sensing cable detects the presence of liquid hydrocarbon fuels at any point along its length, yet does not react to the presence of water. Installed with a TraceTek alarm and locating module, the cable senses the liquid, triggers an alarm, and pinpoints the location of the leak.

Distributed sensing

TT5000 sensing cable provides distributed leak detection and location for a wide range of applications. The cable is available in a variety of lengths to provide as much coverage as needed.

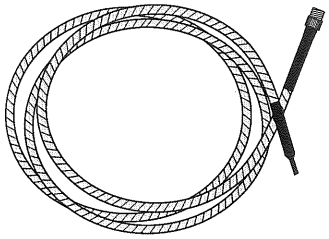
Design flexibility

TT5000 sensing cable is available in bulk reels, with connector kits or with factory-installed connectors that plug together. The cable is designed for a variety of double-containment applications, including tanks, trenches, and piping. (See the "TraceTek Double-Containment Design Guide" for specific design alternatives.)

Advanced technology

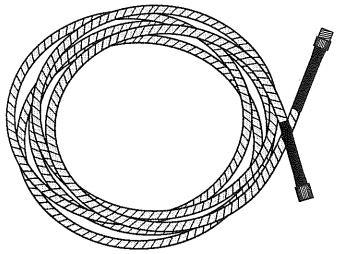
Raychem's radiation-crosslinking and conductive-polymer technologies are used to make TT5000 sensing cable mechanically strong and chemically resistant. The core of the cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire. The core is encased in a conductive-polymer jacket and surrounded with a fluoropolymer braid. This rugged construction allows the cable to perform reliably in the most demanding environments.

Ordering information



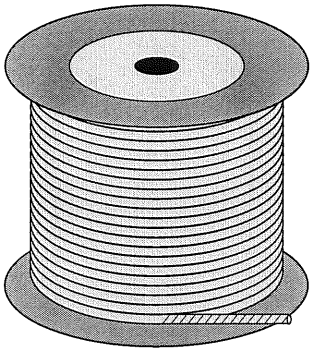
TT5000 zone sensing cable with factory-installed connector and end termination

Catalog number	Description
TT5000–Zone–MC	5-ft (1.5 m) sensing cable with heat-shrink end termination.



TT5000 modular sensing cables with factory-installed connectors

Catalog number	Description
TT5000-0.3M/1FT-MC	1-ft (0.3 m) sensing cable
TT5000-1.5M/5FT-MC	5-ft (1.5 m) sensing cable
TT5000-3M/10FT-MC	10-ft (3 m) sensing cable
TT5000-4.5M/15FT-MC	15-ft (4.5 m) sensing cable
TT5000-7.5M/25FT-MC	25-ft (7.5 m) sensing cable
TT5000-15M/50FT-MC	50-ft (15 m) sensing cable
TT5000-30M/100FT-MC	100-ft (30 m) sensing cable



TT5000 bulk sensing cable (connector kits required)
for installation in double-containment piping

Catalog number	Description
TT5000–SC	Bulk sensing cable on reel Minimum length: 100 ft (30 m) Maximum length: 800 ft (240 m)
Connector kits (not shown): TT5000–CK–MC–M/F	Components for five mated pairs of connectors (includes test tools)
TT5000–CK–MC–M	One pin-type connector
TT5000–CK–MC–F	One socket-type connector

Sample configurations and bills of materials

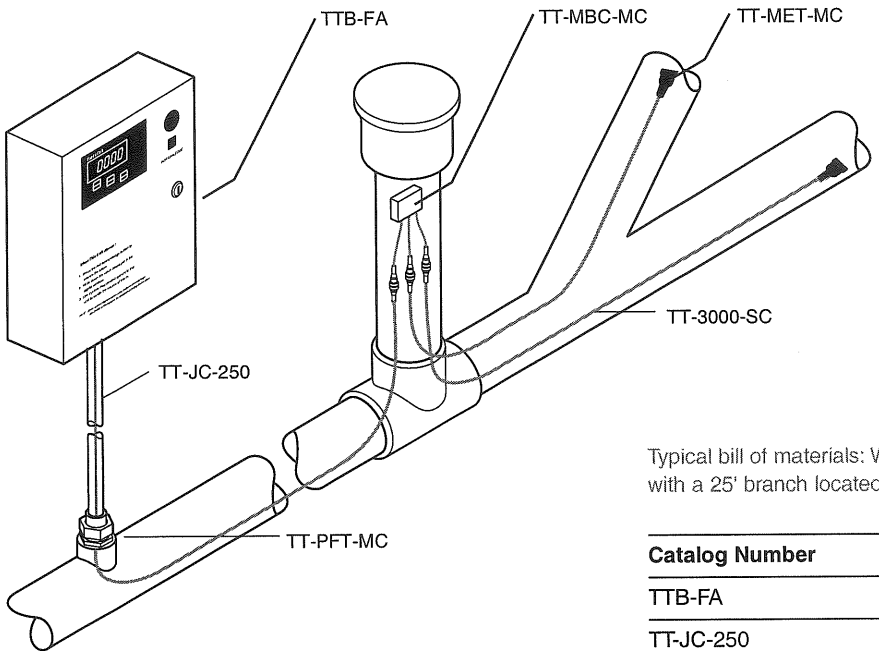
Directions for using this section

This section provides a sample configuration and bill of materials for each of the four types of TraceTek leak detection systems outlined in Section 3.

Find the drawing for the type of system you selected in Section 3. With the drawing you will find a sample bill of materials listing the products necessary for that system and its installation.

Use the sample bill of materials as a guide. You will have to adjust the lengths, quantities, number, and type of fittings to meet your application's specific needs.

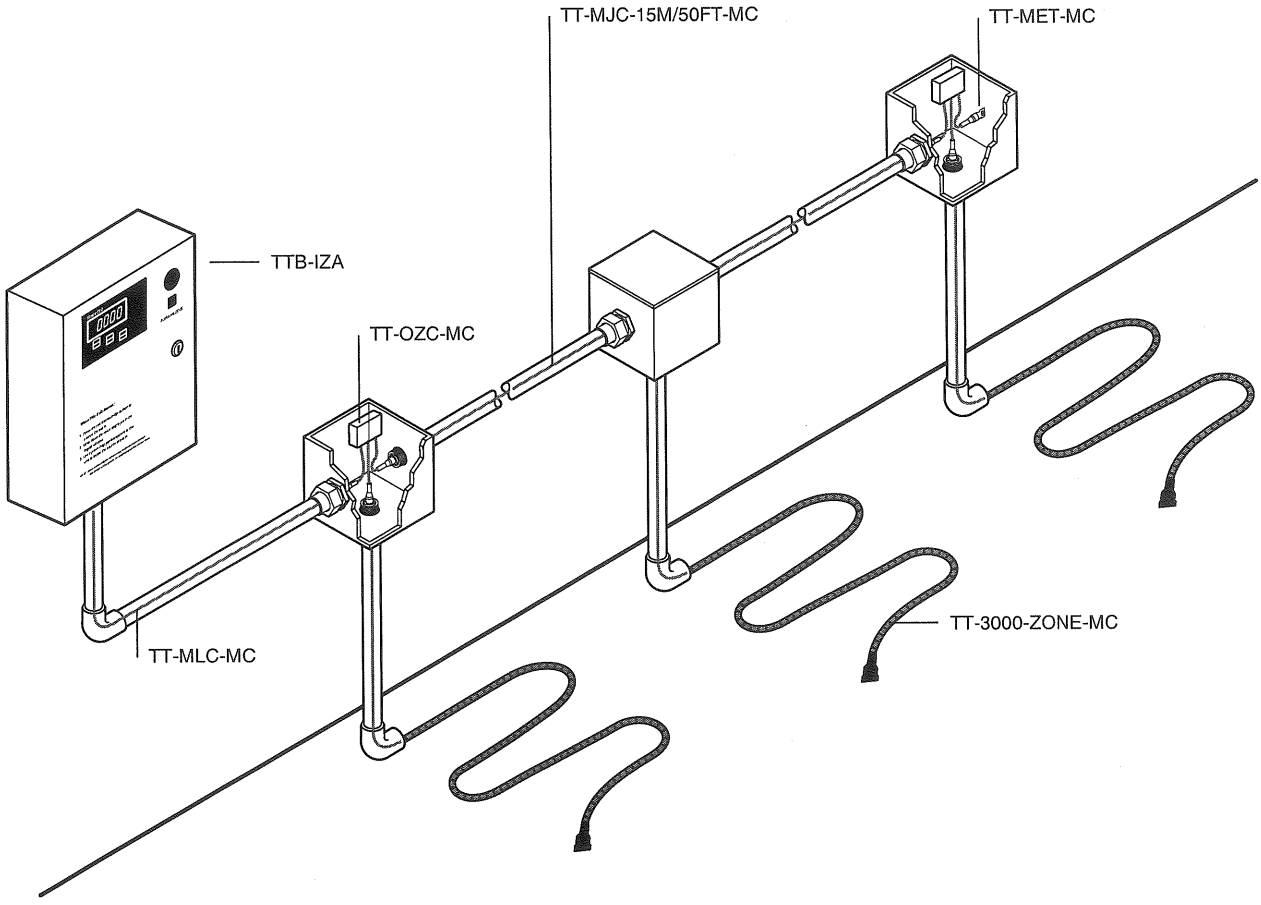
Locating system



Typical bill of materials: Wastewater drain system (1200' main line with a 25' branch located 200 feet from the alarm module)

Catalog Number	Description	Qty
TTB-FA	Locating alarm module	1
TT-JC-250	Jumper cable—bulk	1
TT-JC-CK-MC-F	Metal connector kit	1
TT-PFT-3/4-MC	Pressure feedthrough fitting	1
TT3000-SC	TT3000 cable	1250'
TT-MBC-MC	Modular branch connector	1
TT3000-CK-MC-M/F	Metal connector kit	1
TT-CT-SCT-3000	Crimp tool	1
TT-MET-MC	Modular end termination	2
TT-Kellem Grip	Kellem Grip	1
TT-PR	Pull rope, 500-ft. reel	3
TT-PTB	Portable test box	1
TT-Ultratorch	Ultratorch 200	1

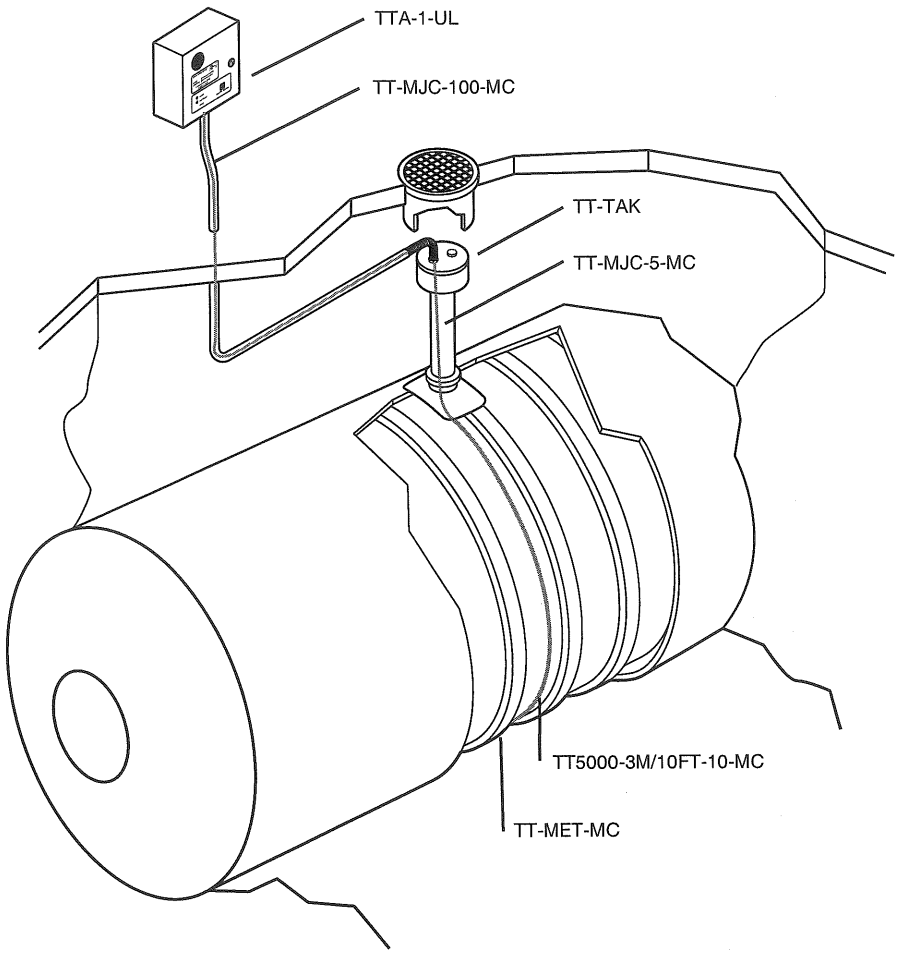
Zone system



Typical bill of materials: Three-zone sump (monitoring watery waste sumps on 50-foot centers with the panel located 10 feet from the first junction box)

Catalog number	Description	Qty
TTB-IZA	Zone alarm module	1
TT-MLC-MC	Modular leader cable	1
TT-OZC-MC	Zone connector	3
TT3000-ZONE-MC	Zone sensing cable	3
TT-MJC-15M/50FT-MC	Modular jumper cable	2
TT-MET-MC	Modular end termination	1

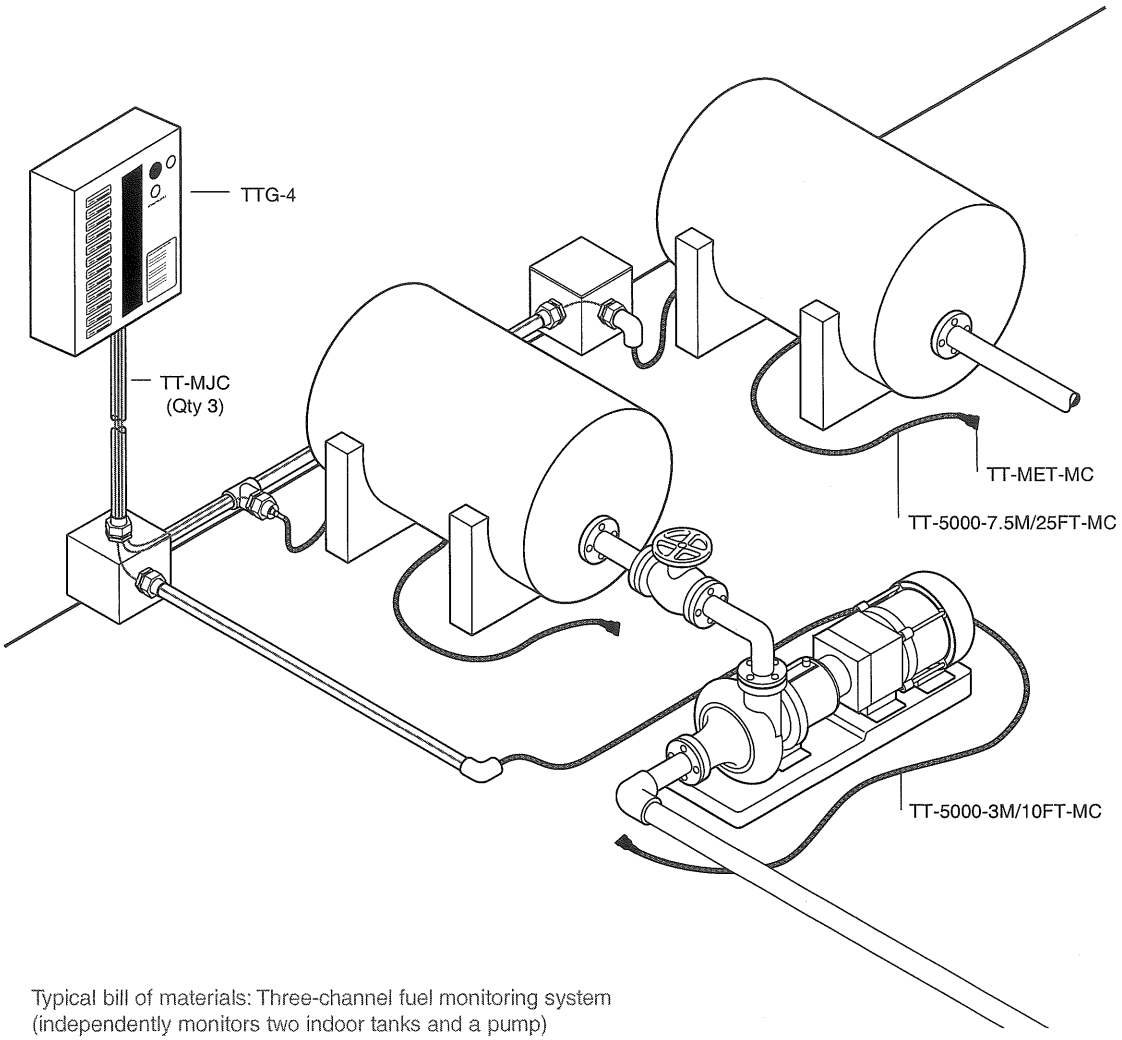
Nonlocating single-channel system



Typical bill of materials: Single-channel underground fuel tank sensor located 100 feet from the alarm module

Catalog number	Description	Qty
TTA-1-UL	Alarm module	1
TT-MJC-100-MC	Modular jumper cable	1
TT-TAK	Tank access kit	1
TT-MJC-5-MC	Modular jumper cable	1
TT5000-3M/10FT-10-MC	Modular sensing cable	1
TT-MET-MC	Modular end termination	1

Nonlocating multiple-channel system



Typical bill of materials: Three-channel fuel monitoring system (independently monitors two indoor tanks and a pump)

Catalog number	Description	Qty
TTG-4	Alarm module	1
TT5000-MSC-10-MC	Modular sensing cable	1
TT5000-MSC-25-MC	Modular sensing cable	2
TT-MJC-30M/100FT-MC	Modular jumper cable	3
TT-MET-MC	Modular end termination	3
TT-HDC-1/2-NA-50	Hold-down clips (not shown)	1

To: NHS
From: CO
} F.Y.I. (5)(a)(i)

Martin's Point Peninsula
SITE COVERAGE

TJD&A
9.7.93

	1933	1993	2000±
total Site Acreage	571,200 (13.1 ac)	571,200 (13.1 ac)	571,200 (13.1 ac)
Buildings	31,650	40,900	40,900
Pavement	61,800	119,800	143,320
Green Space	477,749 (10.96 ac)	410,500 (9.4 ac)	386,980 (8.9 ac)
% Impervious Cov.	16.3% (2.14 ac)	28.1% (3.7 ac)	32.2% (4.2 ac)

(5)(a)(i)

5a(11)

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Robert J. Crawford

Neal F. Pratt
Kenneth D. Pierce
Christian L. Barner
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May 25, 1994

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Station 65
Augusta, Maine 04333-0065

Re: **Purchase and Sale by City of Portland to Penobscot Bay Medical Associates of Portion of Former Marine Hospital Facility at Martin's Point, Portland, Maine**

Dear Earle:

This letter is to serve as the request of our client, Penobscot Bay Medical Associates ("PBMA"), for review and approval of the acquisition and development described below by the Maine Historic Preservation Officer, pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended.

The United States Department of Education has consented to the purchase (or abrogation) by the City of Portland (the "City") of the United States' interest in the land and buildings located at the former Marine Hospital facility at Martin's Point in Portland (the "Premises").

Although the City has held title to the property since 1976, the Department of Education has continued to hold certain rights in the property, including the right to enforce certain preservation covenants at the property. (A copy of the United States' deed to the City is attached.) Those preservation covenants will remain permanently with the property and will continue to be enforceable by the United States, as well as by the City.

We believe that activities at the site are subject to Section 106 review because (i) the former Marine Hospital building at the Premises is on the National Register of Historic Places and (ii) the deed contains historic preservation covenants enforceable by the United States of America. The sale of the United States' interest may also trigger review.

Following the abrogation of the United States' interest, the City intends to sell a portion of the Premises to PBMA, which does business at the Veranda Street location as Martin's Point Health Care Center. The approximately 1.66-acre area to be sold (the "PBMA Parcel") will be developed by PBMA (i) in part, as a parking lot for 50 cars, and (ii) in part, as a park, providing public access from Veranda Street via a walkway, overlooks, and seating areas to this scenic, wooded area along Casco Bay. In addition, through easements to be granted both to the City by PBMA and by the City to PBMA, PBMA will establish and maintain a walkway across (i) adjacent land presently owned by PBMA to the east of the PBMA Parcel and (ii) a portion of the Premises currently used by the School Department to the north of the PBMA parcel, upon which the former Marine Hospital building is located.

The following exhibits have been attached to this letter for your review and consideration:

1. A copy of the 1976 deed of the United States of America to the City of Portland.

2. The proposed site plan that has been submitted to the Portland Planning Board for review and approval (the "Site Plan Application").

3. A copy of the Site Plan Application.

4. Aerial photography of the Premises, showing the Premises as it presently exists, with a color rendition overlay of the parking lot additions proposed in the Site Plan Application.

If you have any questions or comments regarding PBMA's request for Section 106 review of the proposed acquisition, sale, and development, please do not hesitate to call me.

Very truly yours,

Nathan H. Smith

Enclosures

cc: Carol Brewer, PBMA
Eliza M. Cope, Esq.

EXHIBIT 6

Return to Corporation Counsel City Hall, Portland, Maine

DEED 1963

3892/334

KNOW ALL MEN BY THESE PRESENTS: That the UNITED STATES OF AMERICA acting by and through the Secretary of Health, Education, and Welfare by the Regional Director of the Department of Health, Education, and Welfare, Region I, under and pursuant to the powers and authorities contained in the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, the Civil Rights Act of 1964, and the regulations promulgated thereunder, and the Department of Health, Education and Welfare Statement of Organization and Delegation of Authority, for and in consideration of the observance and performance by The City of Portland, a body politic and corporate located in the County of Cumberland, State of Maine, of the covenants, conditions, reservations, and restrictions hereinafter contained and for other valuable consideration grants to the said Grantee, its successors and assigns, subject to the covenants, conditions, reservations, and restrictions hereinafter set forth a certain parcel of real estate, said parcel being a portion of the former Marine Corps Reserve Training Center, Portland, County of Cumberland, State of Maine, more fully described as follows:

Beginning at a point on the southeasterly sideline of Veranda Street, said point being distant 313.30 feet northeasterly along said southeasterly sideline of Veranda Street on a course of N 61°45' E From a granite three foot offset monument located on the split of the last angle in Veranda Street as shown on a plan numbered 548/21 on file in the Office of the Director of Public Works, City Hall, Portland, Maine;

thence south 59°15' east, a distance of sixty (60.00) feet to a point;

thence north 79°55' east, a distance of one hundred and fifty (150.00) feet to a point;

thence south 50°55' east, a distance of two hundred forty-five (245.00) feet to a point;

thence south 12°55' east to the low water mark of Casco Bay;

thence easterly and northerly along said low water mark of Casco Bay to a point and an intersection with the most southerly point of Parcel No. 2 as shown on the aforementioned plan on file in the Office of the Director of Public Works, City Hall, Portland, Maine;

thence north 13°57' west along said Parcel No. 2 to a point;

thence north 00°55' west along said Parcel No. 2, a distance of one hundred seventy-seven and two one-hundreds (177.02) feet to a point;

thence south 87°35' west along said Parcel, a distance of fifty eight and sixty-two one-hundreds (58.62) feet to a point;

thence north 01°25' west along said Parcel No. 2, a distance of thirty three and eighty-four (33.84) feet to a point;

thence south 89°20' west along said Parcel No. 2, a distance of one hundred eighty-five and twenty-three one-hundreds (185.23) feet to a point;

thence north 24°17' west along said Parcel No. 2, a distance of eight and twelve one-hundreds (8.12) feet to a point and an

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intersection with the southeasterly sideline of the land of the State of Maine. Said southeasterly sideline of the land of the State of Maine being the southeasterly sideline of the old Veranda Street before its relocation on December 31, 1896;

thence south 65°43' west along the said southeasterly sideline of the land of the State of Maine, a distance of two hundred ninety-two and fifty-six one-hundreds (292.56) feet to a point;

thence south 61°45' west along the said southeasterly sideline of the land of the State of Maine and along the southeasterly sideline of Veranda Street as it now exists, a distance of three hundred thirty-eight and sixty-one one-hundreds (338.61) feet to the point of beginning.

Subject to an easement granted by the United States of America to the Portland Water District by deed dated September 20, 1955.

Said property conveyed hereby was declared surplus and was assigned to the Department of Health, Education, and Welfare for disposal for educational purposes pursuant to the provisions of the aforementioned Federal Property and Administrative Services Act of 1949 and of applicable rules, regulations and orders.

This Deed is executed and delivered to the Grantee, its successors and assigns, without covenants or warranties by or on behalf of the UNITED STATES OF AMERICA whatsoever, either express or implied.

AND this Deed is made and accepted upon each of the following conditions subsequent which shall be binding upon and enforceable against the Grantee, its successors and assigns, each of them as follows:

1. That for a period of thirty (30) years from the date of this Deed the above described property herein conveyed shall be utilized continuously in the manner and for the educational purposes set forth in the approved program and plan contained in the application of the Grantee, and any amendments thereto and for no other purpose.

2. That during the aforesaid period of thirty (30) years the Grantee will resell, lease, mortgage or encumber or otherwise dispose of the above described property, or any part thereof or interest therein only as the Department of Health, Education, and Welfare, or its successor in function, in accordance with its existing regulations, may authorize in writing.

3. That one year from the date of this Deed and annually thereafter for the aforesaid period of thirty (30) years unless the Department of Health, Education, and Welfare, or its successor in function, otherwise directs, will file with the Department of Health, Education, and Welfare, or its successor in function, reports on the operation and maintenance of the above described property and will furnish as requested such other pertinent data evidencing such

continuous use of the property herein conveyed for the purpose specified in the above identified application.

4. That for the period during which the above described property is used for a purpose for which the Federal financial assistance is extended by the Department or for another purpose involving the provision of similar services or benefits, the Grantee hereby agrees that it will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and all requirements imposed by or pursuant to the Regulation of the Department of Health, Education, and Welfare (45 C.F.R. Part 80) issued pursuant to that title and as in effect on the date of this Deed, to the end that, in accordance with Title VI of that Act and the regulation, no person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or otherwise subjected to discrimination under the program and plan referred to in condition 1 above or under any other program or activity of the Grantee, its successors or assigns, to which such Act and Regulation apply by reason of this conveyance.

In the event of breach of any of the conditions set forth above, whether caused by the legal or other inability of the Grantee, its successors or assigns, to perform any of the obligations herein set forth, all right, title and interest in and to the above described property shall, at the option of the United States of America revert to and become the property of the UNITED STATES OF AMERICA, which shall have an immediate right of entry thereon, and the Grantee, its successors and assigns, shall forfeit all right, title and interest in and to the above described property and in any and all tenements, hereditaments, and appurtenances thereunto belonging; PROVIDED, HOWEVER, that the failure of the Department of Health, Education, and Welfare, or its successor in function, to insist in any one or more instances upon complete performance of any of said conditions shall not be construed as a waiver or a relinquishment of the future performance of any such conditions, but the obligations of the Grantee with respect to such future performance shall continue in full force and effect; PROVIDED FURTHER, that in the event the UNITED STATES OF AMERICA fails to exercise its option to reenter the premises for any such breach of conditions subsequent numbered 1, 2, and 3, herein within 31 years from the date of this conveyance, conditions numbered 1, 2, and 3 herein, together with all rights of the United States of America to reenter in this paragraph provided with respect to conditions

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numbered 1, 2, and 3 herein, shall, as of that date, terminate and be extinguished; PROVIDED FURTHER, that the expiration of conditions 1, 2, and 3, and the right to reenter shall not affect the obligation of the Grantee, its successor and assigns with respect to condition numbered 4 herein or the right reserved to the United States of America to reenter for breach of said condition.

In the event title to the above described premises is reverted to the UNITED STATES OF AMERICA for noncompliance or voluntarily reconveyed in lieu of reverter, the Grantee, its successors and assigns, at the option of the Department of Health, Education, and Welfare, or its successor in function, shall be responsible and shall be required to reimburse the UNITED STATES OF AMERICA for the decreased value of the above described property not due to reasonable wear and tear, acts of God and alterations and conversions made by the Grantee to adapt the property to the educational use for which the property was acquired. The UNITED STATES OF AMERICA shall, in addition thereto, be reimbursed for such damages including such costs as may be incurred in recovering title to or possession of the above described property, as it may sustain as a result of the noncompliance. The Grantee, by the acceptance of this Deed, covenants and agrees for itself, and its successors and assigns that in the event the UNITED STATES OF AMERICA exercises its option to revert all right, title and interest in the property to it, then the Grantee shall provide protection and maintenance of said property at all times until such time as the title is actually reverted to the United States of America, including the period of any notice of intent to revert. Such protection and maintenance shall, at a minimum conform to the standards prescribed by General Services Administration in its regulations FPMR 10147.4913 (41 C.F.R. Part 101) in effect as of the date of this deed, a copy of which is attached to the Grantee's application previously incorporated herein.

The Grantee may secure abrogation of the conditions subsequent numbered 1, 2, and 3 herein by:

a. Obtaining the consent of the Department of Health, Education, and Welfare, or its successor in function; and

b. Payment to the United States of America in accordance with the following conditions:

(1) If abrogation is requested by the Grantee for the purpose of making the property or a portion thereof available to serve the needs or purposes of a third party, payment shall

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be based upon the current fair market value, as of the date of any such requested abrogation, of the property to be released from the conditions and restrictions, less amortized credit at the rate of 3-1/3% of the public benefit allowance granted on the original sale price for each twelve (12) months during which the property has been utilized in accordance with the purposes specified in the above identified application.

(ii) If abrogation is requested by the Grantee for the purpose of making the property available as security for financing of new construction, for acquiring substitute or better facilities, or for relocating elsewhere, all for the purpose of further advancing or promoting the program specified in the above identified application, payment shall be based upon the public benefit allowance granted to the Grantee, of 100% from the sale price of three hundred forty two thousand two hundred fifty (342,250) dollars as of the date of this instrument, less a credit at the rate of 3-1/3% of the public benefit allowance granted for each twelve (12) months during which the property has been utilized in accordance with the purpose specified in the above identified application; provided, however, the Grantee shall execute such agreement, supported by surety bond or other security that may be deemed by the Department to be necessary or advisable, to assure that the proceeds of sale obtained by the Grantee in any disposal of any portion of the property for effectuating one or another of the aforesaid purpose for which abrogation is requested, will be devoted to the program use specified in the above identified application.

The Grantee, by acceptance of this Deed covenants and agrees for itself, its successors and assigns, and every successor in interest to the property herein conveyed or any part thereof—which covenant shall attach to and run with the land for so long as the property herein conveyed is used for a

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purpose for which the Federal financial assistance is extended by the Department or for another purpose involving the provisions of similar services or benefits and which covenant shall in any event, and without regard to technical classification or designation, legal or otherwise, be binding to the fullest extent permitted by law and equity, for the benefit and in favor of and enforceable by the UNITED STATES OF AMERICA and its successors against the Grantee, its successors and assigns, and every successor in interest to the property, or any part thereof—that it will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and all requirements imposed by or pursuant to the Regulation of the Department of Health, Education, and Welfare (45 C.F.R. Part 80) issued pursuant to that title and as in effect on the date of this Deed, to the end that, in accordance with Title VI of the Act and the Regulation, no person in the United States shall, on the ground of race, color or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under the program and plan referred to in condition 1 above or under any other program or activity of the Grantee, its successors or assigns, to which such Act and Regulation apply by reason of this conveyance.

The Grantee, by the acceptance of this Deed, covenants and agrees for itself, its successors and assigns, that in the event the property hereby conveyed is sold, leased, mortgaged, encumbered, or otherwise disposed of, or is used for purposes other than those set forth in the above identified program and plan without the consent of the Department of Health, Education, and Welfare, all revenues or the reasonable value, as determined by the Department of Health, Education, and Welfare, or benefits to the Grantee deriving directly or indirectly from such sale, lease, mortgage, encumbrance, disposal, or use (or the reasonable value as determined by the Department of Health, Education, and Welfare or any other unauthorized use) shall be considered to have been received and held in trust by the Grantee for the UNITED STATES OF AMERICA and shall be subject to the direction and control of the Department of Health, Education, and Welfare.

The Grantee by acceptance of this Deed, further covenants and agrees, for itself, its successors and assigns, that if the Grantee, its successors and assigns, shall cause any of the buildings, structures, or improvements on the premises hereby conveyed to be insured against loss, damage or destruction, and any such loss, damage or destruction shall occur during

shall

the period the Grantee holds title to said property subject to said conditions 1, 2, and 3, said insurance and all moneys payable to the Grantee, its successors or assigns, thereunder shall be held in trust by the Grantee, its successors or assigns, and shall be promptly used by the Grantee for the purpose of repairing such buildings, structures or improvements and restoring the same to their former condition, or, if not so used, shall be paid over to the Treasurer of the United States in an amount not exceeding the unamortized public benefit allowance of the buildings, structures or improvements lost, damaged, or destroyed.

The Grantee by the acceptance of this Deed, further covenants and agrees for itself, its successors and assigns, that the UNITED STATES OF AMERICA shall have the right during any period of emergency declared by the President of the United States or by the Congress of the United States to the full unrestricted possession, control, and use of the property hereby conveyed, or any portion thereof, including any additions or improvements thereto made subsequent to this conveyance. Prior to the expiration or termination of the 30-year period of restricted use by the Grantee, such use by the UNITED STATES OF AMERICA may be either exclusive or nonexclusive and shall not impose any obligations upon the Government to pay rent or any other fees or charges during the period of emergency, except that the Government shall (i) bear the entire cost of maintenance of such portion of the property used by it exclusively or over which it may have exclusive possession or control, (ii) pay the fair share, commensurate with the use, of the cost of maintenance of such of the property as it may use nonexclusively or over which it may have nonexclusive possession or control (iii) pay a fair rental for the use of improvements or additions to the premises made by the Grantee without Government aid and (iv) be responsible for any damage to the property caused by its use, reasonable wear and tear and acts of God and the common enemy excepted. Subsequent to the expiration or termination of the 30-year period of restricted use, the obligations of the Government shall be as set forth in the preceding sentence and in addition, the Government shall be obligated to pay a fair rental for all or any portion of the conveyed premises which it uses.

The Grantee, by the acceptance of this deed, covenants and agrees for itself, its successors and assigns, and every successor in interest to the property herein conveyed or any part thereof, which covenant shall attach to and run with the land and which covenant shall in any event, and without regard to technical classification

3.11

or designation, legal or otherwise, be binding to the fullest extent permitted by law and equity, for the benefit and in favor of and enforceable by the GRANTOR and its successors against the GRANTEE, its successors and assigns, and every successor in interest to the property, or any part thereof:

a) that the Marine Hospital Building located on the above described property is listed on the National Register of Historic Places because of the historical and architectural significance of its exterior.

b) that interior renovations may be made to the Hospital Building as needed by the GRANTEE.

c) that the historical and architectural integrity of the exterior of the Marine Hospital Building shall be preserved and maintained. To this end the GRANTEE shall not alter the exterior of the building without the approval of the Maine Historic Preservation Commission. If the Hospital Building is totally destroyed by Act of God, the GRANTEE shall not be required to replace said building. If the Hospital Building is partially destroyed by Act of God, the GRANTEE shall restore said building using materials that shall be consistent with its historical integrity in terms of appearance based on form, color, and texture.

d) that alterations to the grounds, driveways, and parking areas on the property may be made as needed. Any other above ground new construction or exterior alterations on other portions of the property which may have a visual effect on the setting of the Marine Hospital Building shall receive prior approval from the Maine Historic Preservation Commission.

e) that in the event the GRANTEE and the Maine Historic Preservation Commission or its successors fail to agree on any proposed action during the 30 year period following the issuance of the deed, the GRANTEE may request permission from the Department to take the action. If the Department determines that the action would not be contrary to paragraphs a) through d) above it may grant or deny the request following compliance with Section 106 of the National Historic Preservation Act.

This instrument is intended to take effect as a sealed instrument.

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IN WITNESS WHEREOF, the UNITED STATES OF AMERICA has caused these presents to be executed this 12th day of August 1976

UNITED STATES OF AMERICA

Acting by and through the Secretary of Health, Education, and Welfare

WITNESSES:

Laurette Torrasca

Bruce O. Talbot

BY: Mary B. Newman

Mary B. Newman
Regional Director, Region I
Department of Health, Education, and Welfare

ACKNOWLEDGEMENT

STATE OF MAINE)
)
COUNTY OF CUMBERLAND)

DATE: August 12, 1976

Before me a Notary Public in and for the ~~Commonwealth of Massachusetts~~ State of Maine then and there personally appeared Mary B. Newman, duly empowered, authorized and delegated by the Secretary of Health, Education, and Welfare pursuant to a Delegation of Authority, who signed the foregoing instrument in behalf of the UNITED STATES OF AMERICA and acknowledged the same to be ~~his~~ her free act and deed in ~~his~~ her said capacity and the free act and deed of the UNITED STATES OF AMERICA.

[signature]

Notary Public
My Commission Expires April 1, 1980

ACCEPTANCE

The City of Portland by acceptance of this Deed hereby accepts and agrees to all the terms, covenants, conditions, reservations, and restrictions contained herein.

BY: A. J. Wilson

A. J. Wilson
City Manager
City of Portland
State of Maine

WITNESSES:

Laurette Torrasca

Bruce O. Talbot

3:3

ACKNOWLEDGEMENT

STATE OF MAINE)
) DATE: August 12, 1976
COUNTY OF CUMBERLAND)

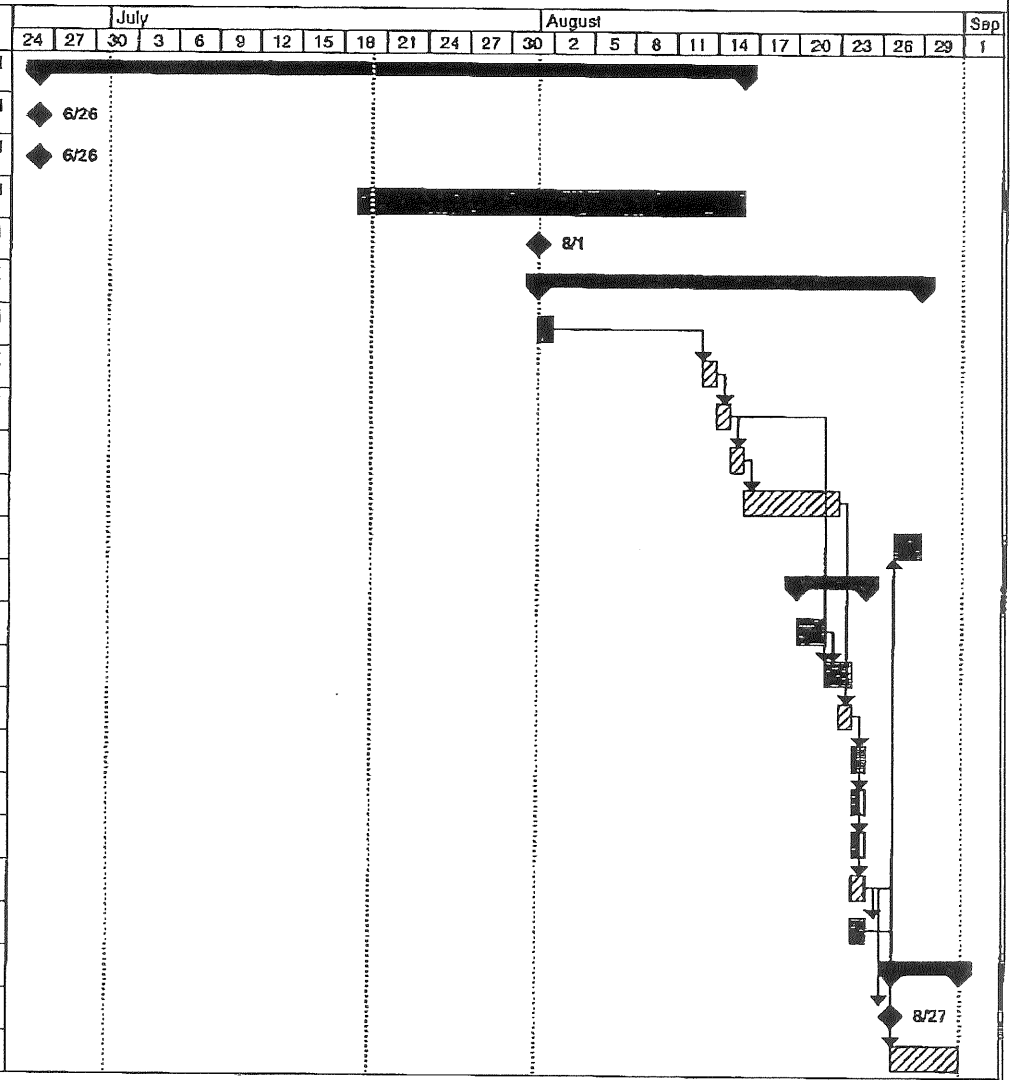
Before me a Notary Public in and for the City of Portland, State of Maine then and there personally appeared said A. J. Wilson, City Manager, City of Portland, duly empowered and authorized, who signed the foregoing instrument on behalf of The City of Portland, and acknowledged the same to be his free act and deed in his said capacity and the free act and deed of the City of Portland.

Notary Public
My Commission Expires April 15, 1977

AUG 16 1976
REGISTRY OF DEEDS, CUMBERLAND COUNTY, MAINE
Received at 10 H 15 M A.M. and recorded in
BOOK 3892 PAGE 334. Margaret L Fisher Acting Register

Carriage House Data Center Permanent Generator
Preliminary Construction Schedule

ID	Task Name	Duration	Start	Finish
1	Project Planning/Coordination	37 days	6/26/01	8/15/01
2	Receive Approval from City of Portland	1 day	6/26/01	6/26/01
3	Receive Building Permit	1 day	6/26/01	6/26/01
4	Order/Receive Permanent Generator	4 wks	7/19/01	8/15/01
5	Pre-Construction Site Meeting	1 day	8/1/01	8/1/01
6	Site Work	20 days	8/1/01	8/28/01
7	Subcontractor Coordination	1 day	8/1/01	8/1/01
8	Excavation	1 day	8/13/01	8/13/01
9	Form Concrete Pad Foundation	1 day	8/14/01	8/14/01
10	Pour Concrete	1 day	8/15/01	8/15/01
11	Concrete Cure	1 wk	8/16/01	8/22/01
12	Construct New Fence	2 days	8/27/01	8/28/01
13	Electrical	5 days	8/20/01	8/24/01
14	Compete Conduits	2 days	8/20/01	8/21/01
15	Complete Electrical Wire to Pad	2 days	8/22/01	8/23/01
16	Deliver Generator/Rigging	1 day	8/23/01	8/23/01
17	Electrical Finish	1 day	8/24/01	8/24/01
18	Install/Start-up/Test	1 day	8/24/01	8/24/01
19	Re-Wire ATS	1 day	8/24/01	8/24/01
20	Cutover Power to New Generator	1 day	8/24/01	8/24/01
21	Remove Temporary Generator	1 day	8/24/01	8/24/01
22	Final Contract Closeout	5 days	8/27/01	8/31/01
23	MPHC Staff Training	1 day	8/27/01	8/27/01
24	Deliver Record Drawings/Contract Docs	1 wk	8/27/01	8/31/01



Project: Schedule_Prelim
Date: 7/20/01

Task
Critical Task
Progress
Milestone
Summary
Rolled Up Task
Rolled Up Critical Task
Rolled Up Milestone
Rolled Up Progress
Split
External Tasks
Project Summary

Prepared by: KL Nordstrom
Electronic Environments Corp
July 18, 2001

Electronic Environments
Infrastructure Solutions

Fax Cover Sheet

NATIONWIDE SERVICES

60 Shawmut Road
Canton, MA 02021
Phone (781) 302-2600
Fax (781) 828-9554
www.eecnet.com

Date : 7/20/01

Pages (with cover) : 2

To : Jay Reynolds

Company : City of Portland

Fax Number : 207-756-8258

From : Karen Nordstrom

Subject : Martins Point Health Care

Diesel Generator
331 Veranda St.

Jay,
See you on
August 1

Karen Nordstrom

About EEC:

Since 1986, Electronic Environments has offered clients one source for the design, installation and maintenance of 7x24 Telecommunications & I/T infrastructures. EEC maximizes system availability through our exclusive focus on the reliability and performance of critical infrastructures such as:

- *Uninterrupted Power Systems*
- *DC Power Plants*
- *Emergency Generators*
- *Wireless Transmission / Towers*
- *Grounding / TVSS*
- *Process Air Conditioners*
- *Reserve Power- Batteries*
- *AC-DC Power Distribution*
- *Fire Suppression*
- *Security / Monitoring*

DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

778 MAIN STREET
SUITE 8
SOUTH PORTLAND, MAINE 04106
TEL. 207 775 1121
FAX 207 879 0896

- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- TRAFFIC STUDIES AND MANAGEMENT
- PERMITTING
- AIRPORT ENGINEERING
- SITE PLANNING
- CONSTRUCTION ADMINISTRATION

September 15, 2000

Mr. Rick Knowland, Senior Planner
City of Portland – Planning Department
389 Congress Street
Portland, Maine 04101

Subject: Martin's Point Parking Lot

Dear Rick:

In response to the Valerie Giguere, P.E. comments dated September 13, 2000, we offer the following:

- The sewer lines will be relocated to the area of the concrete block wall. This wall will be dismantled and then replaced after installation. It is an old "cinder block" type wall and if necessary, we could either slope back to existing or replace the wall.
- We did attempt to address the comment by adding the note on Sheet 2 which says to contain drainage to be tributary to the level lip spreader.

If you have any questions, please contact me.

Very truly yours,

DeLUCA-HOFFMAN ASSOCIATES, INC.

Michael J. DeLuca, P.E.
Senior Vice President

MJD/ajs/JN928.01/Knowland9-15

c: Sarah Marshall, Terrance DeWan & Associates

City of Portland
Planning Department

389 Congress Street, 4th Floor
Portland, ME 04101
207-874-8721 or 207-874-8719
Fax: 207-756-8258

FAX TRANSMISSION COVER SHEET

Date: 9-21-00

To: VALARIE GIGUERE

Company:

Fax #: 775-6434

From: RICK KNOWLAND

RE: ANY THOUGHTS ON THIS? (SEE ATTACHMENT)

YOU SHOULD RECEIVE 2 PAGE(S),
INLUDING THIS COVER SHEET.
IF YOU DO NOT RECEIVE ALL THE PAGES,
PLEASE CALL 207-874-8721 OR 207-874-8719.

DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

778 MAIN STREET
SUITE 8
SOUTH PORTLAND, MAINE 04106
TEL. 207 775 1121
FAX 207 879 0896

- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- TRAFFIC STUDIES AND MANAGEMENT
- PERMITTING
- AIRPORT ENGINEERING
- SITE PLANNING
- CONSTRUCTION ADMINISTRATION

September 15, 2000

Mr. Rick Knowland, Senior Planner
City of Portland – Planning Department
389 Congress Street
Portland, Maine 04101

Subject: Martin's Point Parking Lot

Dear Rick:

In response to the Valerie Giguere, P.E. comments dated September 13, 2000, we offer the following:

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If you have any questions, please contact me.

Very truly yours,

DeLUCA-HOFFMAN ASSOCIATES, INC.

Michael J. DeLuca, P.E.
Senior Vice President

MJD/ajs/JN928.01/Knowland9-15

c: Sarah Marshall, Terrance DeWan & Associates

tjd&a Terrence J. DeWan & Associates

121 West Main Street, Yarmouth, Maine 04096

tel 207.846.0757 fax.207.846.0675 e.mail scmdewan@maine.rr.com

date: 9/6/00

project: Martin's Point

transmittal to: Mike DeLuca
Alex Jaegerman
Rick Knowland

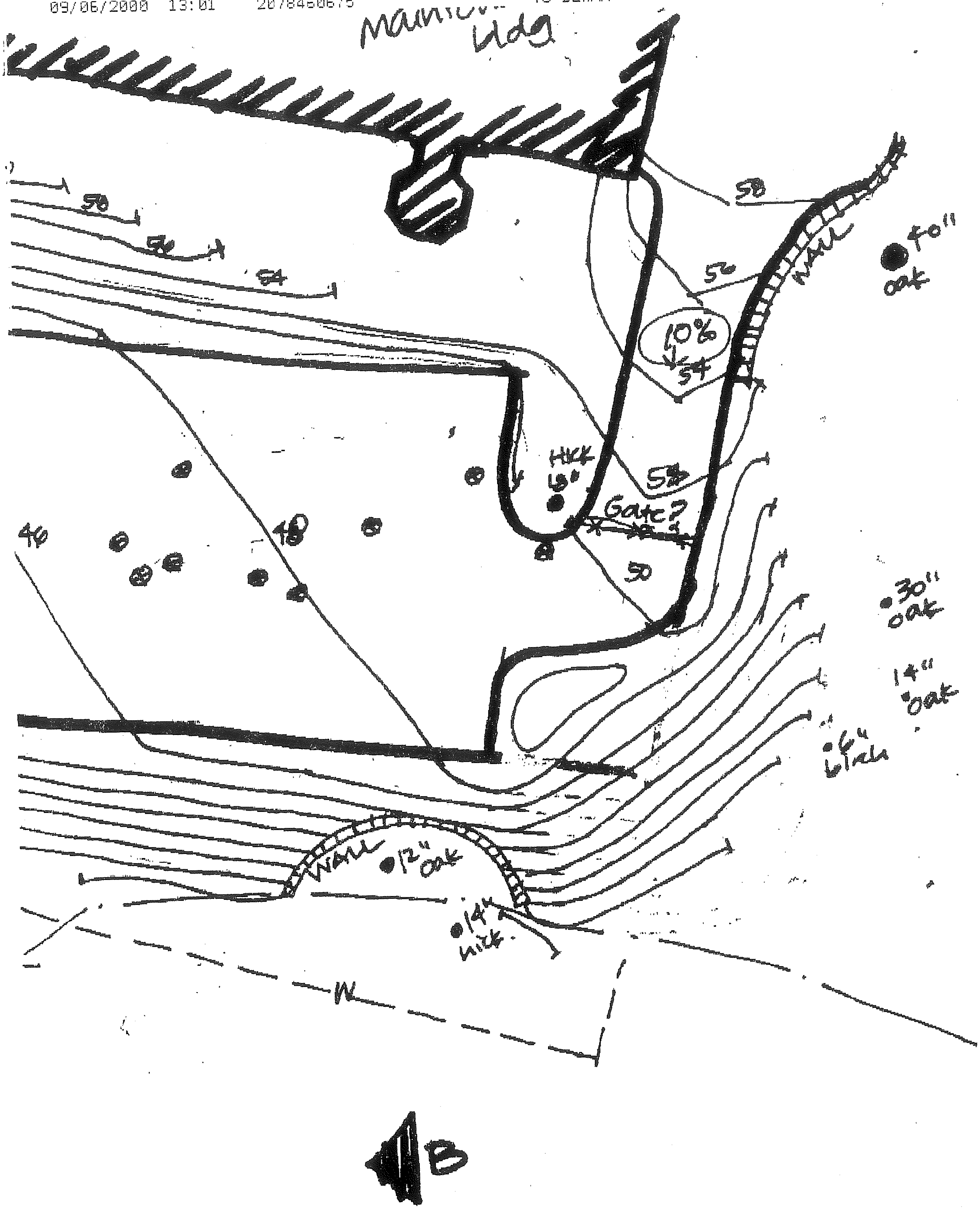
via: fax mail courier other

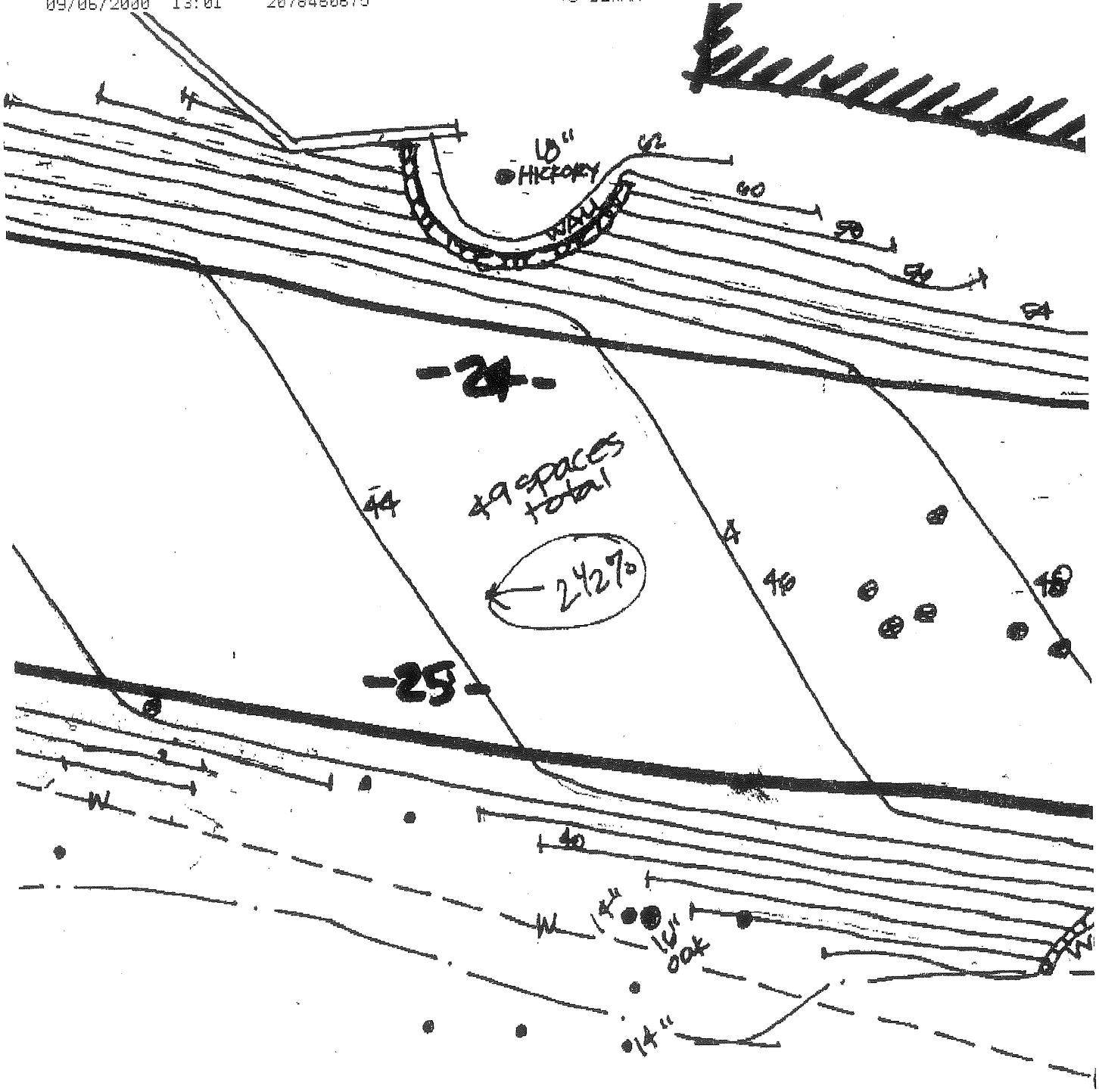
copies to:

date	number of pages/number of copies/description
items: 9/6/00	1"=20' plan - proposed revision to layout and grading

notes: 1) lower parking lot to minimize impact of grading, 2) add tree wells at critical areas 3) avoid propane tanks and pole re-location

from/signed: Sarah Marshall


Mansion
bldg
58
56
54
58
56
10%
54
WALL
40" oak
HKK
LG"
Gate?
50
46
48
30" oak
14" oak
WALL
12" oak
14" hick
W
B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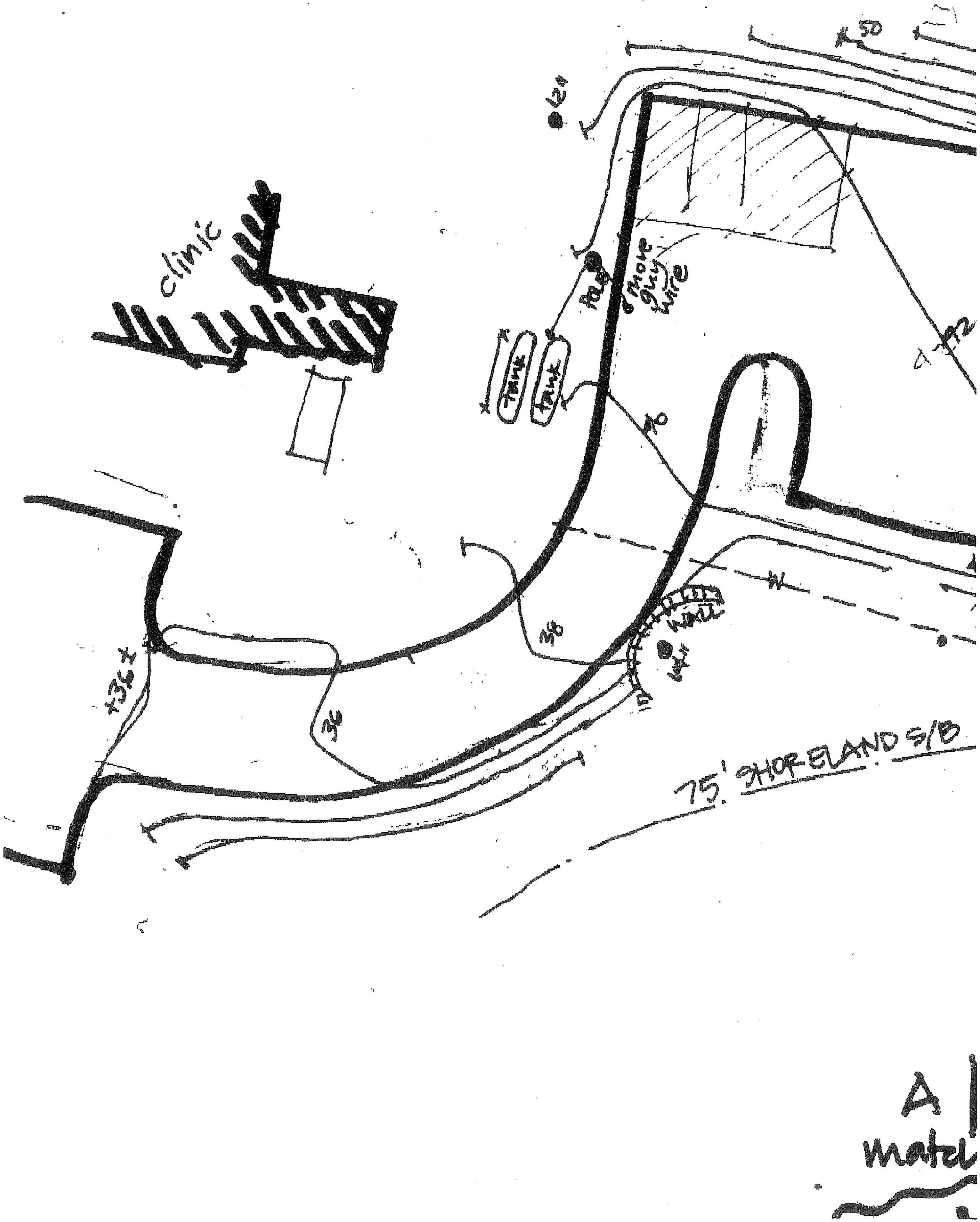

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matc

DEPARTMENT OF PLANNING AND URBAN DEVELOPMENT

RICHARD KNOWLAND
SENIOR PLANNER

6-28-00

JEFF,

ENCLOSED FOR YOUR REVIEW IS A REVISED SITE PLAN ~~THAT~~ HOPEFULLY ADDRESSES YOUR EARLIER COMMENTS.

LET ME KNOW WHAT YOU THINK. THANKS

RIC

DEPARTMENT OF PLANNING AND URBAN DEVELOPMENT

RICHARD KNOWLAND
SENIOR PLANNER

6-28-00

Marge

Latest version of Manning Point.

DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- TRAFFIC STUDIES AND MANAGEMENT
- PERMITTING
- AIRPORT ENGINEERING
- SITE PLANNING
- CONSTRUCTION ADMINISTRATION

DEPARTMENT OF PLANNING AND URBAN DEVELOPMENT

RICHARD KNOWLAND
SENIOR PLANNER

6-28-00

TONY,

LATEST VERSION OF MONTVU POINT.

RK

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- Silt fence leader line has been extended.

DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

778 MAIN STREET
SUITE 8
SOUTH PORTLAND, MAINE 04106
TEL. 207 775 1121
FAX 207 879 0896

- ROADWAY DESIGN
- ENVIRONMENTAL ENGINEERING
- TRAFFIC STUDIES AND MANAGEMENT
- PERMITTING
- AIRPORT ENGINEERING
- SITE PLANNING
- CONSTRUCTION ADMINISTRATION

June 27, 2000

Mr. Rick Knowland, Senior Planner
City of Portland – Planning Department
389 Congress Street
Portland, Maine 04101

Subject: Martin's Point Parking Lot Expansion

Dear Rick:

In response to the Dufresne-Henry, Inc. review letter dated June 20, 2000, (copy attached) we offer the following:

- The table on the plan set has been revised and should be the information used for construction.
- The existing walking path is paved. Proposed paths will also be paved.
- Pipe sizes and slopes are shown on the plan.
- The plans have been changed and should be used for construction. Rip rap has been added as required.
- Previously, Best Management Practices recommended a minimum of 1 foot of level lip spreader length for each 1 cfs. Our design is 12 feet long for 4.57 cfs, which would meet these requirements.

The new standards in the State of Maine Stormwater Management Law recommend less than .25 cfs per 1 foot length of level spreader for the 10-year storm event. Flows for the 10-year storm are calculated as follows:

$Q = ci\ a$, $I = 4.5$ and $ca = .78$
$Q = (4.5)(.78) = 3.51$ cfs

Using the .25 cfs per 1 foot length, we arrive at a 14 foot long level spreader.

- Additional details and clarification have been added to the plans.
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- The retaining wall is being designed by R. W. Gillespie and Associates. We will provide a final design to the City prior to construction.
- Leader lines have been extended and terminology clarified.
- We agree. After the test pit, we will comply with Portland Water District requirements.
- The client wished to use regular MDOT B and C mix.

If you have any questions or need more information, please contact me.

Very truly yours,

DeLUCA-HOFFMAN ASSOCIATES, INC.

Michael J. DeLuca, P.E.
Senior Vice President

MJD/sq/JN928.01/Knowland6-27

c: Sarah Marshall, Terrance J. DeWan and Associates

VNG COPY

Dufresne-Henry

22 Free Street Portland, Maine 04101-3900 . Tel: 207.775.3211 . Fax: 207.775.6434 . E-mail: dhmaine@agate.net

June 20, 2000

Mr. Richard Knowland, Senior Planner
City of Portland
Planning and Urban Development
389 Congress Street
Portland, Maine 04101

Re: Martin's Point Parking Lot Expansion

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- Depending on the clearance obtained between the existing water main & proposed storm drain between CB-2 and DMH-1, insulation may be needed to protect the water main.
- We suggest the pavement grades shown on Sheet 4 be modified to reflect MDOT Superpave pavement specifications.

If you have any questions or require further assistance, please contact Valerie Giguere or me.

Respectfully submitted,

DUFRESNE-HENRY, INC.

Jeffrey D. Preble, P.E.
Senior Project Manager

DeLUCA-HOFFMAN ASSOCIATES, INC.
CONSULTING ENGINEERS

778 MAIN STREET
SUITE 8
SOUTH PORTLAND, MAINE 04106
TEL. 207 775 1121
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Very truly yours,

DeLUCA-HOFFMAN ASSOCIATES, INC.

Michael J. DeLuca, P.E.
Senior Vice President

MJD/sq/JN928.01/Knowland6-27

c: Sarah Marshall, Terrance J. DeWan and Associates

VNG COPY

Dufresne-Henry

22 Free Street . Portland, Maine 04101-3900 . Tel: 207.775.3211 . Fax: 207.775.6434 . E-mail: dhmaine@agate.net

June 20, 2000

Mr. Richard Knowland, Senior Planner
City of Portland
Planning and Urban Development
389 Congress Street
Portland, Maine 04101

Re: Martin's Point Parking Lot Expansion

Dear Rick:

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If you have any questions or require further assistance, please contact Valerie Giguere or me.

Respectfully submitted,

DUFRESNE-HENRY, INC.

Jeffrey D. Preble, P.E.
Senior Project Manager

Dufresne-Henry

22 Free Street . Portland, Maine 04101-3900 . Tel: 207.775.3211 . Fax: 207.775.6434 . E-mail: dhmaine@agate.net

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Planning and Urban Development
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Jeffrey D. Preble, P.E.
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Dufresne-Henry

22 Free Street . Portland, Maine 04101-3900 . Tel: 207.775.3211 . Fax: 207.775.6434 . E-mail: dhmaine@agate.net

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DUFRESNE-HENRY, INC.

Jeffrey D. Preble, P.E.
Senior Project Manager

Dufresne-Henry

Facsimile

22 Free Street
Portland, ME 04101
(207) 775-3211
Fax: (207) 775-6434 E-Mail: portland@dufresne-henry.com

To: Richard Knowland Fax Number: 756-8258

Company: City of Portland, Senior

From: Valerie Giguere Date: 6/30/00

Subject: Martin's Point Parking Lot Expansion

You should receive 2 page(s), including this cover sheet. If you do not receive all the pages, please call 207-775-3211.

Comments: Richard,

Attached please find our comment letter regarding the Martin's Point project revised plans. For your information, Jeff Preble will be / is on vacation until July 10, 2000. If you have any questions, do not hesitate to call. The original will fall in the mail.

Valerie

The Stratevest Group
A Banknorth Company

The Stratevest Group
One Portland Square
Portland, ME 04112

tel: 800-844-9648
tel: 207-828-7505
fax: 207-828-7521

July 23, 2001

Mr. Duane G. Kline
Finance Director
City of Portland
389 Congress Street
Portland, Maine 04101

RE: City of Portland Escrow FBO Martin's Healthcare, A/C# 76-7411-01-0

Dear Mr. Kline:

Thank you for your letter dated July 18, 2001.

Please be advised that $57,110.26 has been released from the above-referenced account to Martin's Point Healthcare, Inc. This amount represents the principal amount of $56,315.00 plus accrued interest in the amount of $795.26. The remaining balance is $30,000.00.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

John W. Gibbons
Vice President

Cc: Rick Knowland, Senior Planner
Asher E. Cramer, Chief Financial Officer, Martin's Point Healthcare

tjd&a Terrence J. DeWan & Associates Landscape Architects & Planners

121 West Main Street
Yarmouth, Maine 04096
tel. 207.846.0757 fax. 207.846.0675
e.mail. tjddewan@maine.rr.com

September 22, 2001

Rick Knowland, Sr. Planner
Department of Planning & Urban Development
City of Portland
389 Congress Street
Portland, ME 04101

RE: Martin's Point Restoration Plan

Dear Rick,

In response to questions regarding zoning and drainage, we have developed the attached materials.

A. Existing Conditions Plan

Shows existing pavement and trees in upper campus.

Planning Staff raised the concern over stormwater drainage into Casco Bay. I asked Mike Deluca of Deluca Hoffman Associates to look at the area under consideration, and specifically to consider the pros and cons of constructing a level intercept/infiltration swale along the top of the bank. His memo, attached, explains that the DEP prefers the vegetated buffer. I might add that TJD&A has done design and permitting for a number of properties along Casco Bay, and where soils are soft, we attempt to minimize saturation to avoid subgrade heaviness and weakness which might promote major soil failure. I'd be concerned about the large oaks on the bank at Martin's Point if we introduced any saturation or weakness.

B. Parking Summary Plan

Shows all existing and proposed parking on the entire Martin's Point property.

Having reviewed the plan with you, Rick, and with Marge Schmuckel, we understand that according to the Zoning Ordinance, we can build up to 61 parking spaces between the 'principal structures' and Veranda Street. On Plan B all proposed parking spaces are delineated. The plan also outlines the areas to be paved, or restored to lawn and landscape.

C. Master Plan for Restoration of Upper Campus

Shows *proposed restoration plantings as agreed to in Condition of Approval for newly installed hillside parking lot.*

This plan also includes the standard Site Plan Notes for the city.

Work includes: limbing and fertilizing existing trees, planting 5 new 4" caliper Red Oaks, supplementing and extending the lilac hedge along Veranda Street, and loaming and re-seeding the lawns within the driveway loop. Martin's Point plans to do extensive renovations to the existing landscaping around the buildings within the coming years as well, but those areas do not fall within the scope of this approval.

Calculations of pavement and green space:

Total Martin's Point Parcel:	6.87 acres
Existing impervious:	2.27 acres
Proposed increased impervious:	.11 acres
Proposed total impervious:	3.28 acres
	(34.6% of site)

Martin's Point is eager to restore the landscape of the upper campus as soon as the City gives us the green light, and welcomes any questions from the City to process this request for Site Plan Approval. Please let me know what other information you may need

Thanks very much.

Sincerely,

Sarah Marshall, ASLA
tjd&a • Terrence J. DeWan & Associates

cc: Tom Terry, Martin's Point

From: Mike DeLuca <MDeLuca@DelucaHoffman.com>
To: <scmdewan@maine.rr.com>
Date: Thursday, September 20, 2001 10:23 AM

Sarah,
We reviewed the surface drainage in subcatchment B at Martins Point.The surface drainage flows overland though avegetated area before entering the bay.Since there are no signs of erosion,the drainage regime approximates sheet flow.Therefore,we believe the vegetated area provides some water quality benefitsby capturing particles that contain contaminents.Recently the Maine DEP has gone away from infiltration because of the potential of groundwater pollution.Instead the preferred method is a vegetated buffer.
Mike DeLuca

City of Portland
Planning Department

389 Congress Street, 4th Floor
Portland, ME 04101
(207)874-8721 or (207)874-8719
Fax: (207)756-8258

FAX TRANSMISSION COVER SHEET

Date: 10-5-01

To: TOM TGALY

Company: MARINA POINT

Fax #: 828-2446

From: RICK KNOWLAND

RE: TOM - ATTACHED ARE THE ENGINEERING COMMENTS ON MARINA POINT WE WERE LOOKING FOR. I'VE SENT THEM TO SARAH MANSUR AND MIKE DELUCA. THESE COMMENTS WILL NEED TO BE ADDRESSED.

YOU SHOULD RECEIVE 3 PAGE(S),
INLUDING THIS COVER SHEET.
IF YOU DO NOT RECEIVE ALL THE PAGES,
PLEASE CALL (207)874-8721 OR (207)874-8719.

CITY OF PORTLAND, MAINE
MEMORANDUM

TO: Richard Knowland, Senior Planner

FROM: James Seymour, Development Review Coordinator

DATE: October 10, 2001

SUBJECT: Martin's Point Restoration and Drainage Plan

The following is my response and recommendations for the drainage scheme as provided in the application/plans submitted by Martin's Point Health Care Clinic dated September 22, 2001. The point of the review stemmed on the best way to direct and treat surface runoff originating from the center of the campus and flowing in a southwesterly direction and also toward Veranda Street.

1. (Drainage discharging near proposed 8 car parking lot and dumpster.) This area appears to be the final collection point for the majority of surface runoff generated from the delineated subcatchment B. The corner of the southwestern most parking stall, adjacent to the dumpster appears to pond runoff to a depth of 6-8 inches prior to it continuing toward the steep embankment aside the bay. I somewhat disagree with the statement from Deluca Hoffman. Within the first 10 ft. to the top of the embankment erosion is not evident, however the embankment appears to have moderate to severe erosion as noted by exposed tree roots, sediment deposit and piled leaves.

2. The second area which appears to be subject to erosion is the primary access road on the southern edge near the exit lane from the Martin's Point campus. The drainage (labeled as subcatchment A) originates further east uphill from the school administration building and travels 300 hundred feet more or less toward Veranda Street. The accumulated channelized runoff on the shoulder has scoured and eroded the current edge of pavement. This flow goes uncollected and goes across the main entrance prior to reaching Veranda Street and is directed by the curb line into the storm drain system.

Recommendations

Based on the "Master Plan for the Restoration" I foresee a continuation of the same problems. Curbing may not eliminate all the problems, and the current flows without leveling measures will not promote treatment or discourage erosion. The only way I can foresee elimination of erosion and scouring flows is to provide a means of collect by dry well or catch basin. The front access area as described in #2 above cold be collected by a catch basin and directed into a Veranda Street catch basin located just east of the entrance. This would eliminate the large washing effect at the entrance and eliminate potential icing in the winter.

The area described in #1 is more difficult to address due to limitations of grades over the embankment and a Portland Water District easement. However, a dry well system, if soil conditions warrant, may be an excellent way to provide treatment and eliminate much of the runoff from going over the embankment. Medium intensity soils mapping indicates that the soils may be of a sand consistency. With no downstream wells and only ocean below, soil contamination appears to be a very slight risk. Another option is installation of a new product by Vortechnics, which is a catch basin/treatment system together in one unit. An outlet pipe would be required to outlet over the embankment at a point to avoid mature trees with the outlet swale being rip rapped to a level area near the shore.

I hope I have been able to explain the concerns and measures needed to correct them. I feel that while yes the project is going to beautify the campus, some responsibility for drainage should be conducted. Please feel free to have the applicant, if necessary, or yourself reach me if you have any further questions.

tjd&a Terrence J. DeWan & Associates

121 West Main Street, Yarmouth, Maine 04096

tel. 207.846.0757 fax.207.846.0675 e.mail.scmdewan@maine.rr.com

date: 10/12/01

project: MPHC

transmittal to: Rick Knowland
Portland

via: fax mail courier other: drop off's

copies to:

date	number of pages/number of copies/description

items: the following application forms was brought to Codes Office on July 10 along with check for $400. Please let me know if they're missing!

notes:

from/signed: Sarah Marshall

Site Review Pre-Application
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling or Commercial Structures and Additions Thereto

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

NOTEIf you or the property owner owes real estate or personal property taxes or user charges on ANY PROPERTY within the City, payment arrangements must be made before permits of any kind are accepted.**

Martin's Point Health Care Center (MPHC) — Applicant

July 10, 2001 — Application Date

331 Veranda St., P.O.Box 9746 — Applicant's Mailing Address

Restoration Plan — Project Name/Description

Portland ME 04104 — Consultant/Agent

MPHC, 331 Veranda St. — Address Of Proposed Site

Sarah Marshall, Landscape Architect
tel: 846-0757 fax 846-0675 — Applicant/Agent Daytime telephone and FAX

434-C-1-7 — Assessor's Reference, Chart#, Block, Lot#

Proposed Development (Check all that apply) ____New Building ____ Building Addition ____ Change of Use ____ Residential ____ Office ____ Retail ____ Manufacturing ____ Warehouse/Distribution ____ Parking Lot ✓ Other(Specify) re-organization of parking & restoration of landscape

net 14 parking spaces — Proposed Building Square Footage and /or # of Units

6.07± total — Acreage of Site

R-5 — Zoning

Major Site Plan____ Minor Site Plan ✓

You must Include the following with you application:

1) A Copy of Your Deed or Purchase and Sale Agreement on file
2) 9 sets of Site Plan packages containing the information found in the attached sample plans and checklist.

(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are $ 0.25 per page)

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if an approval for the proposed project or use described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant: Sarah Marshall	Date: 7.10.01

Site Review Fee: Major $500.00 Minor (400.00)

This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.

tjd&a Terrence J. DeWan & Associates Landscape Architects & Planners
121 West Main Street
Yarmouth, Maine 04096
tel. 207.846.0757 fax. 207.846.0675
e.mail. tjddewan@maine.rr.com

July 4th, 2001

Rick Knowland, Sr. Planner
Department of Planning & Urban Development
City of Portland
389 Congress Street
Portland, ME 04101

RE: Martin's Point Restoration Plan

Dear Rick,

I appreciated you and Jeff Tarling meeting me out at Martin's Point last month. In our conversation out there you asked for Martin's Point to clarify their request to the City. I have developed the attached drawings to answer your questions.

A. Existing Conditions Plan

Shows existing pavement and trees in upper campus.

The following site issues have been identified: uncontrolled vehicle access onto green spaces has caused damage to lawns and trees, and parallel parking along the driveway has constricted safe flow.

B. Parking Summary Plan

Shows all existing and proposed parking on the entire Martin's Point property.

On this sheet we also provide a snapshot of the total current demand for 266 parking spaces at this facility. MPHC has 158 employees on site, and sees 430 patients in a day. Assuming that each patient comes in a separate car, and that each patient is on site for an average 2 hours visit (waiting, appointment, follow-up pharmacy and lab work, etc.), we assumed a need for 108 patient parking spaces.

Even with the newly constructed hillside lot, and the proposed 14 additional spaces for which we now seek approval by re-organizing and improving circulation and efficiency on the upper campus, this facility can provide a maximum of 186 spaces, as shown. Every space is essential.

C. Master Plan for Restoration of Upper Campus

Shows *proposed restoration plantings as agreed to in Condition of Approval for newly installed hillside parking lot.*

This plan also includes the standard Site Plan Notes for the city.

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Calculations of pavement and green space:

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	(34.6% of site)

Martin's Point is eager to restore the landscape of the upper campus as soon as the City gives us the green light, and welcomes any questions from the City to process this request for Site Plan Approval. Please let me know what other information you may need. I'll call to follow up in a few days.

Thanks very much.

Sincerely,

Sarah Marshall

Sarah Marshall, ASLA
tjd&a • Terrence J. DeWan & Associates

cc: Tom Terry, Martin's Point

Planning Department

Richard Knowland.
Senior Planner

CITY OF PORTLAND

4-2-02

TOM,

SARAH MARSHALL SUGGESTED THAT I FORWARD THE ATTACHED PERFORMANCE GUARANTEE PACKET TO YOU. THE PERFORMANCE GUARANTEE IS CRITICAL SINCE WE CAN'T "SIGN OFF" ON THE SITE PLAN UNTIL WE HAVE ONE IN HAND.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CALL ME.

RICK KNOWLAND

389 Congress St., 4th fl. • Portland, ME • (207) 874-8725 • Fax 756-8258
Email: rwk@ci.portland.me.us

Site Review Pre-Application
Multi-Family/Attached Single Family Dwellings/Two-Family Dwelling or Commercial Structures and Additions Thereto

In the interest of processing your application in the quickest possible manner, please complete the Information below for Site Plan Review

NOTE**If you or the property owner owes real estate or personal property taxes or user charges on ANY PROPERTY within the City, payment arrangements must be made before permits of any kind are accepted.

Martin's Point Health Care Center (MPHC)
Applicant

July 10, 2001
Application Date

331 Veranda St., P.O.Box 9746
Applicant's Mailing Address

Restoration Plan
Project Name/Description

Portland ME 04104
Consultant/Agent

MPHC, 331 Veranda St.
Address Of Proposed Site

Sarah Marshall, Landscape Architect
tel: 846-0757 fax 846-0675
Applicant/Agent Daytime telephone and FAX

434-C-1-7
Assessor's Reference, Chart#, Block. Lot#

Proposed Development (Check all that apply) _____New Building _____ Building Addition _____ Change of Use _____ Residential _____ Office _____ Retail _____ Manufacturing _____ Warehouse/Distribution _____ Parking Lot ✓ Other(Specify) re-organization of parking & restoration of landscape

net 14 parking spaces
Proposed Building Square Footage and /or # of Units

6.87± total
Acreage of Site

R-5
Zoning

Major Site Plan_____ Minor Site Plan ✓

You must Include the following with you application:

1) A Copy of Your Deed or Purchase and Sale Agreement on file
2) 9 sets of Site Plan packages containing the information found in the attached sample plans and checklist.

(Section 14-522 of the Zoning Ordinance outlines the process, copies are available for review at the counter, photocopies are $ 0.25 per page)

I hereby certify that I am the Owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if an approval for the proposed project or use described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this approval at any reasonable hour to enforce the provisions of the codes applicable to this approval.

Signature of applicant: Sarah Marshall	Date: 7.10.01

Site Review Fee: Major $500.00 Minor (400.00)

This application is for site review ONLY, a Building Permit application and associated fees will be required prior to construction.

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September 22, 2001

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Dear Rick,

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Planning Staff raised the concern over stormwater drainage into Casco Bay. I asked Mike Deluca of Deluca Hoffman Associates to look at the area under consideration, and specifically to consider the pros and cons of constructing a level intercept/infiltration swale along the top of the bank. His memo, attached, explains that the DEP prefers the vegetated buffer. I might add that TJD&A has done design and permitting for a number of properties along Casco Bay, and where soils are soft, we attempt to minimize saturation to avoid subgrade heaviness and weakness which might promote major soil failure. I'd be concerned about the large oaks on the bank at Martin's Point if we introduced any saturation or weakness.

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Having reviewed the plan with you, Rick, and with Marge Schmuckel, we understand that according to the Zoning Ordinance, we can build up to 61 parking spaces between the 'principal structures' and Veranda Street. On Plan B all proposed parking spaces are delineated. The plan also outlines the areas to be paved, or restored to lawn and landscape.

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cc: Tom Terry, Martin's Point

From: Mike DeLuca <MDeLuca@DelucaHoffman.com>
To: <scmdewan@maine.rr.com>
Date: Thursday, September 20, 2001 10:23 AM

Sarah,
We reviewed the surface drainage in subcatchment B at Martins Point.The surface drainage flows overland though avegetated area before entering the bay.Since there are no signs of erosion,the drainage regime approximates sheet flow.Therefore,we believe the vegetated area provides some water quality benefitsby capturing particles that contain contaminents.Recently the Maine DEP has gone away from infiltration because of the potential of groundwater pollution.Instead the preferred method is a vegetated buffer.
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