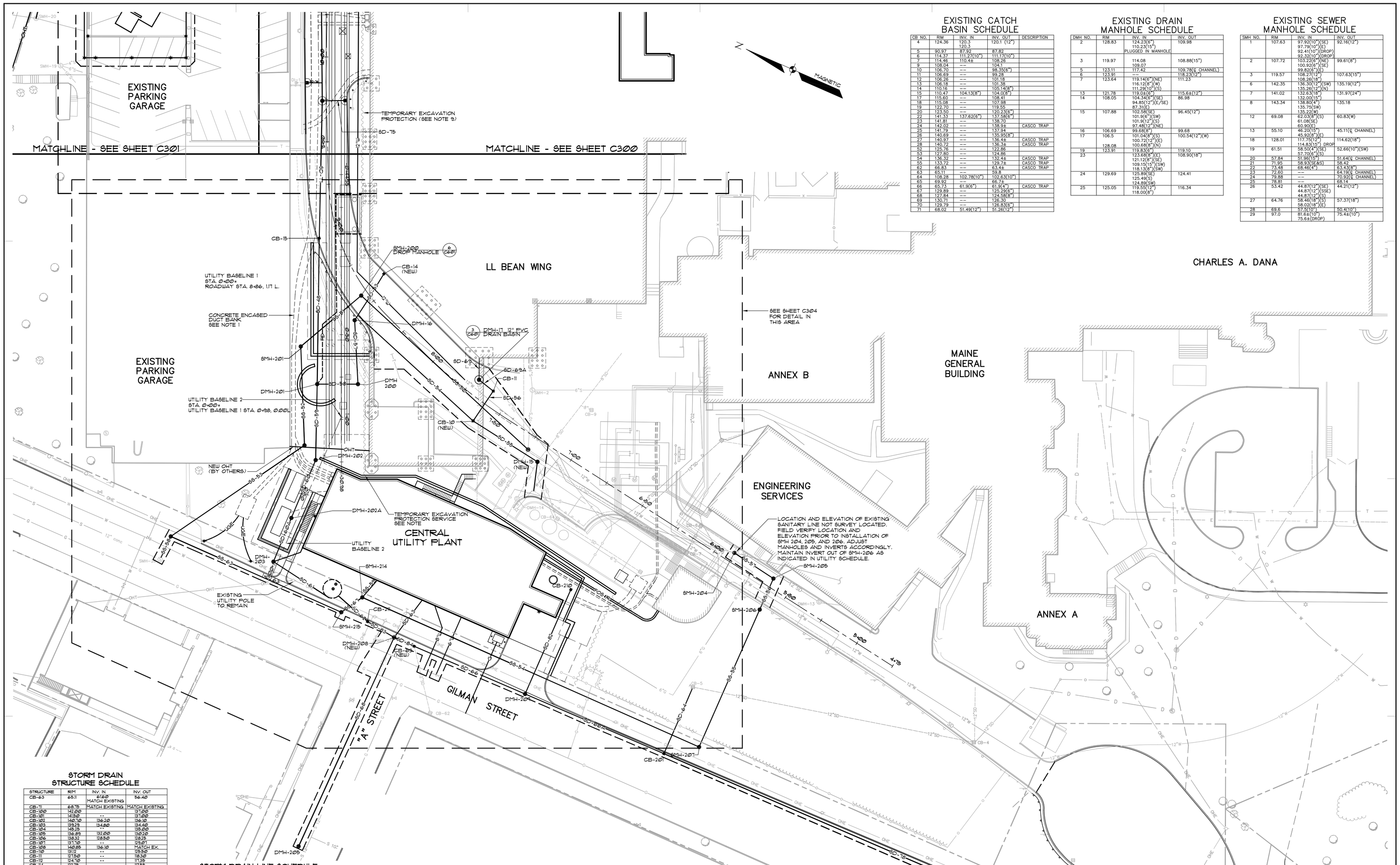


EXISTING CATCH BASIN SCHEDULE

CB NO.	RIM	INV. IN	INV. OUT	DESCRIPTION
4	124.36	120.3 120.3	120.1 (12")	
5	90.97	87.92	87.82	
6	114.37	111.27(10")	111.17(10")	
7	114.46	110.4±	108.28	
9	108.04	--	104.1	
10	106.70	--	98.35(6")	
11	106.69	--	99.28	
12	106.26	--	101.18	
13	106.18	--	101.38	
14	110.16	--	105.14(8")	
15	110.47	104.1(8")	104.0(8")	
17	115.60	--	108.41	
18	115.08	--	107.98	
19	122.70	--	119.55	
20	123.50	--	120.23(6")	
22	141.33	137.62(6")	137.58(6")	
23	141.81	--	138.70	
24	142.02	--	138.9±	CASCO TRAP
25	141.79	--	137.94	
26	140.69	--	135.95(8")	
27	140.97	--	136.4±	CASCO TRAP
28	140.72	--	136.3±	CASCO TRAP
52	125.76	--	122.86	
53	127.80	--	124.86	
54	136.32	--	132.4±	CASCO TRAP
55	133.72	--	129.7±	CASCO TRAP
62	66.83	--	63.4±	CASCO TRAP
63	65.11	--	59.9	
64	108.28	102.78(10")	102.63(10")	
65	69.93	--	66.9±	
66	69.73	61.9(6")	61.9(4")	CASCO TRAP
67	129.89	--	125.29(6")	
68	127.84	--	124.58(8")	
69	130.71	--	126.30	
70	129.79	--	126.83(6")	
71	68.02	51.49(12")	51.26(12")	

EXISTING DRAIN MANHOLE SCHEDULE

DMH NO.	RIM	INV. IN	INV. OUT
2	128.83	124.23(6") 110.23(15") PLUGGED IN MANHOLE	109.98
3	119.97	114.08 109.07	108.88(15")
5	123.11	117.42	109.78(¢ CHANNEL)
6	123.91	--	118.23(12")
7	123.64	119.14(6")(NE) 116.12(6")(W) 111.29(10")(S)	111.23
13	121.78	119.03(6")	115.6±(12")
14	108.05	104.34(6")(SE) 94.85(12")(E/SE) 87.31(6")	86.98
15	107.88	102.58(SE) 101.9(6")(SW) 101.9(12")(S) 97.48(12")(NE)	96.45(12")
16	106.69	99.68(8")	99.68
17	106.5	101.04(8")(S) 100.72(12")(E) 100.68(8")(N)	100.54(12")(W)
18	128.08	117.72(12") 114.83(15") DROP	114.62(18")
19	123.91	119.83(6") 121.12(6")(E) 109.15(15")(SW) 118.13(8")(SW)	119.10 108.90(18")
23		123.68(8")(E)	
24	129.69	125.89(SE) 125.49(S) 124.89(SW)	124.41
25	125.05	119.55(12") 118.00(8")	116.34

EXISTING SEWER MANHOLE SCHEDULE

SMH NO.	RIM	INV. IN	INV. OUT
1	107.63	97.92(10")(SE) 97.79(10")(E) 92.41(10")(DROP) 92.32(10")(DROP)	92.16(12")
2	107.72	103.22(6")(NE) 100.92(6")(SE) 99.83(6")(E)	99.61(8")
3	119.57	108.27(12") 108.26(18")	107.63(15")
6	142.35	136.30(12")(SW) 135.26(12")(N)	135.19(12")
7	141.02	132.83(18") 132.00(15")	131.97(24")
8	143.34	138.80(4") 135.75(SW) 135.22(W)	135.18
12	69.08	62.00(8")(S) 61.08(SE) 60.90(E)	60.83(W)
13	55.10	46.20(15") 45.92(8")(E)	45.11(¢ CHANNEL)
18	128.01	117.72(12") 114.83(15") DROP	114.62(18")
19	61.51	58.50(4")(SE) 57.70(4")(S)	52.66(10")(SW)
20	57.84	51.96(15")	51.64(¢ CHANNEL)
21	71.95	58.93(8±S)	58.42
22	73.48	68.46(4")	63.43(8")
23	72.60	--	64.19(¢ CHANNEL)
24	79.88	--	70.92(¢ CHANNEL)
25	78.81	--	68.14
26	53.42	44.87(12")(SE) 44.87(12")(SSE) 44.87(12")(S)	44.21(12")
27	64.76	58.46(18")(S) 58.02(18")(E)	57.37(18")
28	69.6	57.50(12")	50.4(10")
29	97.0	81.62(10") 75.6±(DROP)	75.4±(10")

General Notes:

1. SEE ELECTRICAL PLANS FOR CONDUIT SCHEDULES FOR ALL DUCT BANKS SHOWN WITH ═ ═ ═ SYMBOL. UNDERGROUND ELECTRICAL AND TELECOMMUNICATIONS CONDUITS SHOWN WITH ═UGE═ AND ═UGT═ SYMBOLS SHALL BE CONSTRUCTED AS PER CONCRETE ENCASED DUCT BANKS WITH THE NUMBER OF CONDUITS INDICATED ON THE SITE UTILITY PLANS. SEE ELECTRICAL PLANS FOR DETAILS OF DUCT BANK CONSTRUCTION.

2. ELECTRICAL AND TELECOMMUNICATIONS DUCT BANK DIMENSIONS INDICATED ON THESE PLANS ARE SHOWN FOR UTILITY COORDINATION. THE ELECTRICAL SITE CONTRACTOR MAY ALTER THE DUCT BANK ARRANGEMENT PROVIDED THAT REQUIRED CLEARANCES FROM ADJACENT UTILITIES ARE MAINTAINED. SEE ELECTRICAL PLANS AND SPECIFICATIONS FOR SHOP DRAWING REQUIREMENTS FOR ELECTRICAL SITE WORK.

3. REFER TO SHEET C202 FOR STORM DRAINAGE AND SANITARY SEWER SCHEDULES. REFER TO SHEETS C305 THROUGH C308 FOR UTILITY PROFILES AND STRUCTURE STATION/OFFSET LOCATIONS.

4. SEE NOTE 10.

5. THE CONSTRUCTION OF ALL WATER MAINS, SERVICES, HYDRANTS, VALVES AND OTHER APPURTENANCES SHALL BE IN CONFORMANCE WITH PORTLAND WATER DISTRICT STANDARDS.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL SITE UTILITY DEMOLITION AND CONSTRUCTION WITH THE PROJECT PHASING AND LOGISTICS PLANS (BY OTHERS).

7. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING ANY INTERRUPTION UTILITY SERVICE TO THE HOSPITAL WITH THE OWNER AND UTILITY COMPANIES. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO UTILITY SERVICE INTERRUPTION.

8. THE SITE CONTRACTOR SHALL FIELD VERIFY THE EXISTING UTILITY SERVICE CONNECTIONS TO PROPERTIES ABUTTING THE PROJECT SITE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY SERVICE TO ABUTTING PROPERTIES BY TEMPORARY OR PERMANENT MEANS THROUGHOUT THE CONSTRUCTION PERIOD.

9. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, DETAILS AND INSTALLATION OF TEMPORARY EARTH RETENTION AND EXCAVATION SUPPORT (SHEET PILING, SOLDIER PILES AND LAGGING OR OTHER APPROVED SYSTEM) TO PROTECT EXISTING STRUCTURES FOUNDATIONS AND UTILITIES TO REMAIN. EXCAVATION SUPPORT SYSTEMS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF MAINE. CONTRACTOR SHALL FURNISH, INSTALL MONITOR AND MAINTAIN EXCAVATION SUPPORT SYSTEMS CAPABLE OF SUPPORTING EXCAVATION SIDEWALKS AND OF RESISTING SOIL AND HYDROSTATIC PRESSURE AND SURFIMPOSED CONSTRUCTION LOADS.

10. MECHANICAL PIPING IS SHOWN AT LOCATION REQUIRED FOR UTILITY COORDINATION. REFER TO MECHANICAL PLANS AND SPECIFICATION. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE MECHANICAL PIPING SYSTEM AS IN THE PROJECT SPECIFICATIONS.

11. THIS PLAN SHOWS PROPOSED SITE LIGHTING FIXTURES. CONTRACTOR IS RESPONSIBLE FOR FURNISHING AND INSTALLING CONCRETE LIGHT POLE BASES AND ALL FIXTURES, CONDUIT AND WIRING, EXCEPT FOR BUILDING WALL MOUNTED FIXTURES. SEE ELECTRICAL PLANS BY OTHERS FOR SITE LIGHTING CONDUIT AND WIRING. SEE DETAIL 3/C501 FOR TYPICAL CONCRETE LIGHT POLE BASE. CONTRACTOR TO CONFIRM BASE DIMENSIONS AND DETAILS WITH ARCHITECTURAL PLANS BY OTHERS.

STORM DRAIN STRUCTURE SCHEDULE

STRUCTURE	RIM	INV. IN	INV. OUT
CB-83	65.1	61.6(8") MATCH EXISTING	56.42
CB-11	68.75	MATCH EXISTING	MATCH EXISTING
CB-100	142.00	--	131.00
CB-101	141.0	--	134.10
CB-102	140.70	136.20	134.40
CB-103	139.23	134.80	134.60
CB-104	138.39	--	135.80
CB-105	136.89	132.00	130.10
CB-106	138.32	128.50	128.35
CB-107	137.10	--	131.01
CB-108	140.80	136.10	MATCH EX.
CB-110	131.0	--	125.50
CB-11	127.50	--	118.20
CB-12	124.10	--	117.35
CB-14	122.75	--	117.55
CB-15	122.75	117.35	117.25
CB-16	125.00	--	118.50
CB-17B	86.0	TBD	TBD
CB-20	107.0	--	TBD
DMH-99	125.10	116.62 116.52	116.34 (MATCH EXIST.)
DMH-100	140.41	135.40 135.30 (2)	131.00
DMH-101	139.37	134.08 131.60	131.50
DMH-102	137.8	131.50 130.00 (2)	121.80
DMH-103	135.46	121.50	121.20
DMH-104	130.85	125.30	124.80
DMH-105	127.20	122.60 118.10	118.00
DMH-106	125.65	MATCH EXISTING 125.50	118.00
DMH-109	130.00	120.00 126.46	109.30
DMH-110	128.75	118.0 113	110.25
DMH-12	114.58	106.75	106.00
DMH-13	67.0	61.0	58.60
CB-123	66.0	62.40	56.50
DMH-119	67.50	56.10	56.00
CB-18*	109.50	97.75 98.00	91.35
CB-1*	109.65	100.0	97.75
CB-14	109.63	102.60	101.50
CB-15	109.50	102.35	98.00
CB-201	80.50	77.0 77.0	72.00
CB-202	110.44	104.50 (MATCH EXIST.)	104.70
CB-203	109.50	--	101.00
CB-204	114.00	106.20	105.30
CB-205	115	107.00	103.00
CB-206	115.00	101.50	101.00
CB-207B	124.75	116.88 (2)	116.75
CB-210	117.75	--	111.50
CB-212	63.50	49.60	43.00
DMH-15*	107.58	101.58	101.10
DMH-16*	109.50	101.00 96.00	95.50
DMH-17	109.86	100.35	100.25
DMH-1300	97.50	91.60	87.50
DMH-201	91.0	84.10 84.10 84.50	84.00
DMH-202	78.50	73.0	67.65
DMH-202A	71.50	65.60	65.40
DMH-203	52.85	51.45	48.00
DMH-209	52.75	47.10	MATCH EX.
DMH-1306	102.10	100.60 101.05	101.00
DMH-207	71.75	65.0 65.0	64.50
DMH-208*	64.75	59.60 56.20 49.30	49.20
DMH-209	82.8	--	71.70
DMH-210	79.0	71.50 TBD	63.60
DI-1	108.00	-	105.00
HL-61	67.0	47.80	45.80
HL-80	67.5	62.9	60.9

* REPLACE EXISTING STRUCTURE WITH NEW STRUCTURE.

STORM DRAIN LINE SCHEDULE

SD NO.	DIA. (IN.)	LENGTH (FT.)	SLOPE	MATERIAL
SD-1	12	12	0.025	PVC
SD-2	12	50	0.06	PVC
SD-3	12	31	.01	RCP
SD-4	12	76	0.0053	RCP
SD-5	12	5	0.04	PVC
SD-6	12	55	0.09	PVC
SD-7	12	67	0.0174	RCP
SD-8	12	13	0.05	PVC
SD-9	12	35	0.010	PVC
SD-10	12	7	0.0186	PVC
SD-11	12	46	0.0065	RCP
SD-12	12	8	0.075	PVC
SD-13	12	28	0.0071	PVC
SD-17	12	54	0.041	RCP
SD-18	12	17	0.011	PVC
SD-19	12	46	0.03	RCP
SD-20	12	44	0.0068	RCP
SD-21	12	43	0.012	PVC
SD-22	12	27	0.009	PVC
SD-23	12	60	0.0065	RCP
SD-27	12	62	0.011	HDPE
SD-29	15	54	0.01	HDPE
SD-30	12	28	0.0093	PVC
SD-32	18	15	0.01	D
SD-33	18	56	0.005	D
SD-34	18	130	0.031	HDPE
SD-35	12	53	0.046	HDPE
SD-48	18	80	0.110	HDPE
SD-53	15	28	0.02	HDPE
SD-54	15	88	0.05	HDPE
SD-55	12	41	0.095	HDPE
SD-56	12	11	0.0116	HDPE
SD-57	18	34	0.031	HDPE
SD-58	18	26	0.075	HDPE
SD-59	18	41	0.014	HDPE
SD-60	18	33	0.062	DI
SD-60A	18	24	0.14	DI
SD-61	24	36	0.01	HDPE
SD-62	24	21	0.0095	HDPE
SD-63	8	76	0.012	HDPE
SD-64	12	40	0.71	HDPE
SD-66	12	64	0.045	RCP
SD-66A	12	85	0.068	RCP
SD-68	24	131	0.016	RCP
SD-69	8	19	TBD	HDPE
SD-69A	8	7	0.28	HDPE
SD-70	12	58	0.01	HDPE
SD-72	12	21	0.0095	HDPE
SD-73	12	78	0.0105	HDPE
SD-74	12	3	0.03	HDPE
SD-75	8	11	0.09	HDPE
SD-76	8	7	FIELD ADJUST	HDPE
SD-77	18	11	0.0084	HDPE
SD-78	12	301	0.11	PVC
SD-79	12	10	0.01	PVC
SD-80	12	34	0.0058	PVC
SD-81	12	63	0.016	HDPE
SD-83	24	14	0.04	PVC
SD-84	12	9	0.077	PVC
SD-85	12	6	.033	HDPE
SD-86	12	164	.009	HDPE
PD-1	6	38	0.38	PVC
PD-2	6	88	0.0358	PVC
PD-3	6	85	0.0356	PVC

SANITARY SEWER STRUCTURE SCHEDULE

STRUCTURE	RIM	INV. IN	INV. OUT
SMH-1205	135.66	127.20 MATCH EXIST.	MATCH EXIST.
SMH-1207	128.75	120.20	119.10
SMH-1208	129.60	116.00 109.6	109.50
SMH-1209	115.0	108.77	108.67
SMH-1*	107.63	97.92 97.79 92.41 92.32	92.16
SMH-2000	106.60	91.00	86.0
SMH-2001	86.50	83.50	81.50
SMH-2002	78.0	73.0	69.0
SMH-2003	58.0	50.25 50.25	50.00
SMH-2004	116.67	TBD	TBD
SMH-2005	119.25	TBD	TBD
SMH-2006	119.10	TBD	107
SMH-2007	85.70	78.10	78.0
SMH-2008	67.10	57.50	57.40
SMH-2008A	83.44	TBD	59.00
SMH-2009	67.10	57.0	56.50
SMH-2100	67.50	56.40 55.90	MATCH EXISTING
SMH-211	80.00	74.10	74.0
SMH-212	74.50	68.75	68.65
SMH-214	66.0	61.38 (2)	61.25
SMH-215	62.0	56.50	56.40

SANITARY SEWER LINE SCHEDULE

SS NO.	DIA. (IN.)	LENGTH (FT.)	SLOPE	MATERIAL
SS-7	12	78	0.01	PVC
SS-8	12	48	0.01	DI
SS-9	15	43	FIELD VERIFY	PVC
SS-10	18	13	0.01	DI
SS-11	15	37	0.018	DI
SS-50	12	130	0.02099	PVC
SS-51	12	43	0.058	PVC
SS-52	12	54	0.157	PVC
SS-53	12	73	0.164	PVC
SS-54	12	213	0.078	PVC
SS-55	12	85	0.34	PVC
SS-56	8	TBD	TBD	PVC
SS-57	8	TBD	TBD	PVC
SS-58	15	11	0.466	PVC
SS-59	8	11	0.268	PVC
SS-60	15	46	0.021	DI
SS-61	15	34	0.0111	PVC
SS-62	15	26	0.079	PVC
SS-63	12	106	0.058	PVC
SS-64	8	45	0.16	PVC
SS-65	8	43	0.103	PVC
SS-66	8	54	minimum = .01	PVC
SS-67	12	11	0.432	PVC

PIPE MATERIAL ABBREVIATIONS

RCP= REINFORCED CONCRETE PIPE
DI = DUCTILE IRON
PVC = POLYVINYL CHLORIDE, SDR 35 SEWER PIPE
HDPE = SMOOTH BORE, CORRUGATED HIGH DENSITY POLYETHYLENE

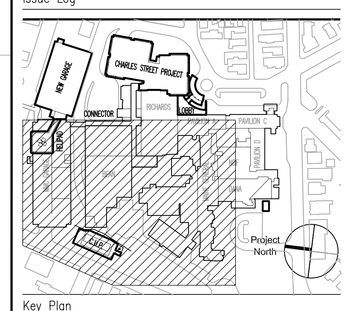
GRAPHIC SCALE

30 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MARK	ISSUE DATE	DESCRIPTION
PERMIT	09/16/04	PERMIT SET
BID	08/31/04	BID SET

Issue Log



Key Plan

TRO
Architecture
Planning
Engineering
Interior Design
The Ritchie Organization
80 Bridge Street
Newton, MA 02458-1134
617-969-9400

Maine Medical Center
Pkg C - Site Utitlities
Portland, Maine MMC Project No. 21846

Drawing Title
UTILITY PLAN

0 10 20 40 80

Commission No.	4677
Scale	1"=20'
Drawn By	MAL
Approved By	DLR
Filename	01046U
Date Issued	08/31/04
Sheet Number	PKG-C
	C302

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