LEGEND

EXISTING	DESCRIPTION	PROPOSED
	PROPERTY LINE/R.O.W.	
	ABUTTER LINE/R.O.W.	
	BUILDING	
	EDGE PAVEMENT	
	PAVEMENT SAWCUT	
	EDGE CONCRETE	
	CURB LINE	
120 118	CONTOURS	120
x120.00	SPOT GRADE	+120.00
	RETAINING WALL	
	DECIDUOUS TREE	
	CONIFEROUS TREE	
	SIGN	
G	GAS	G
	GAS GATE VALVE	
	GAS METER	
	GAS MANHOLE	
W	WATER	W
	WATER GATE VALVE	
	WATER SHUT OFF	
	HYDRANT	
	WATER MANHOLE	
S	SANITARY SEWER	S
	SANITARY MANHOLE	
SD	STORM DRAIN	SD
UD	UNDER DRAIN	UD
	DRAINAGE MANHOLE	
	CATCH BASIN	
OHU	OVERHEAD UTILITY	OHU
UGU	UNDERGROUND UTILITY	UGU
	TRANSFORMER PAD	T
	ELECTRICAL MANHOLE	
	TELEPHONE MANHOLE	
	LIGHT POLE	
	UTILITY POLE	
	GUY WIRE	
	RIPRAP	
	INLET PROTECTION	
	PAVEMENT RECONSTRUCTION	

DUCT BANK LEGEND

A DUCT BANK "A"
(2) 2" CONDUIT (CMP, CITY OF PORTLAND) STREET LIGHT GUY FEED
(5) 4" CONDUIT (MMC)
(3) 4" CONDUIT (SPECTRUM CATV)
(2) 4" CONDUIT (FAIRPOINT)

B DUCT BANK "B"
(3) 4" CONDUIT (SPECTRUM CATV)

C DUCT BANK "C"
(2) 2" CONDUIT (CMP) FOR STREET LIGHTING
(4) 4" CONDUIT (MMC)
(2) 4" CONDUIT (FAIRPOINT)

D DUCT BANK "D"
(4) 4" CONDUIT (FAIRPOINT)

E DUCT BANK "E"
(2) 4" CONDUIT (FAIRPOINT)
(2) 2" CONDUIT (CMP, CITY OF PORTLAND)
(4) 4" CONDUIT (MMC)

F DUCT BANK "F"
(2) 4" CONDUIT (FAIRPOINT)
(4) 4" CONDUIT (MMC)

G DUCT BANK "G"
(3) 4" CONDUIT (SPECTRUM CATV)
(3) 5" CONDUIT (CMP)

H DUCT BANK "H"
(2) 4" EXISTING CONDUIT (FAIRPOINT) TO POLE 7 EXTEND TO POLE 5 IN DUCT BANK I-K-M

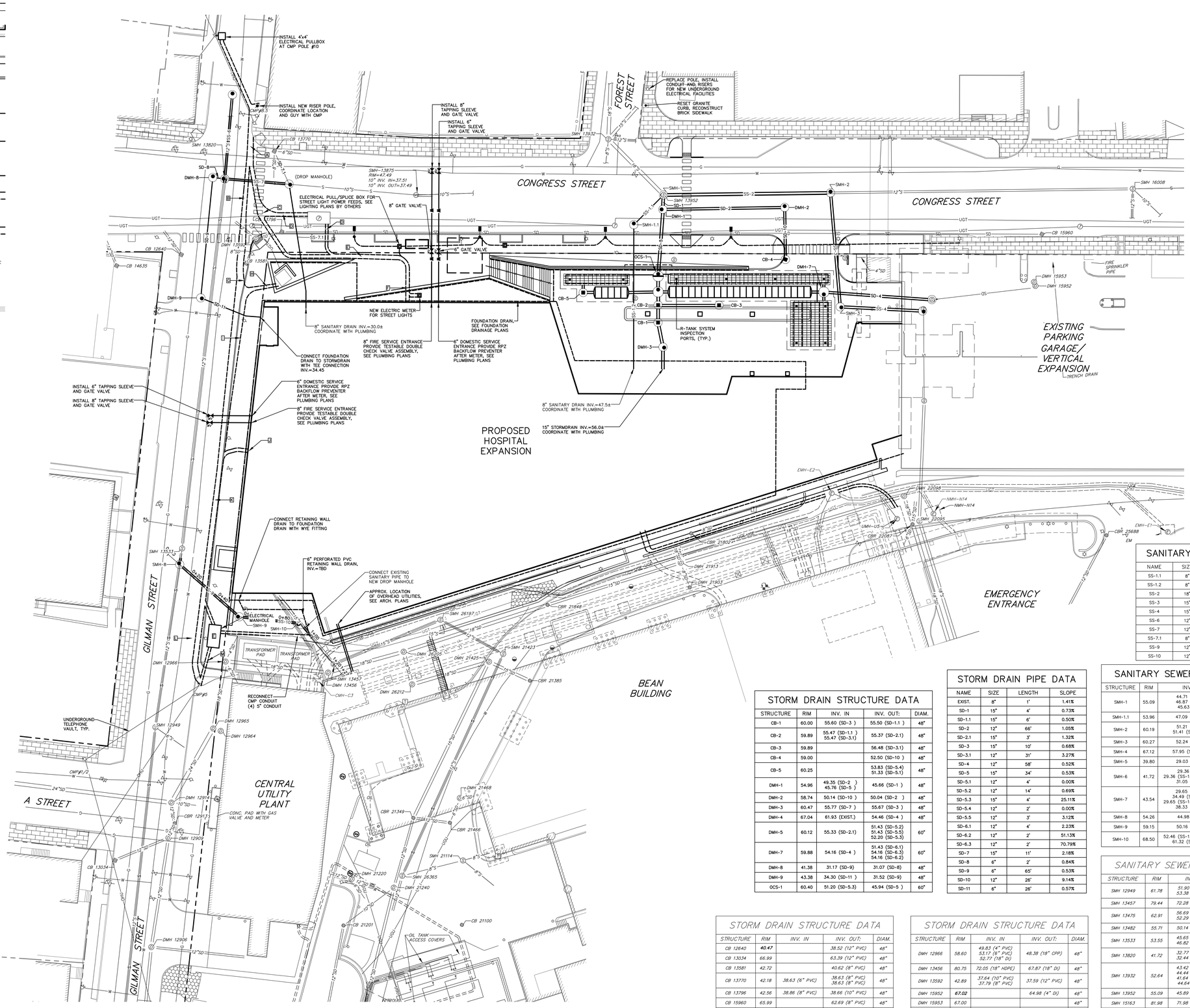
I DUCT BANK "I"
(3) 4" CONDUIT (SPECTRUM CATV)
(3) 5" CONDUIT (CMP)
(2) 4" CONDUIT (FAIRPOINT)

J DUCT BANK "J"
(1) 4" CONDUIT (SPECTRUM)

K DUCT BANK "K"
(3) 4" CONDUIT (SPECTRUM CATV)
(3) 5" CONDUIT (CMP)
(2) 4" CONDUIT (FAIRPOINT) FROM CABINET TO POLE 5
(2) 4" CONDUIT (FAIRPOINT) FROM POLE 5 TO BUILDING
(4) 4" CONDUIT (MMC)

L DUCT BANK "L"
(3) 4" CONDUIT (SPECTRUM CATV)
(4) 4" CONDUIT (MMC)
(2) 4" CONDUIT (FAIRPOINT) FROM CABINET TO POLE 5
(2) 4" CONDUIT (FAIRPOINT) FROM POLE 5 TO BUILDING

M DUCT BANK "M"
(3) 5" CONDUIT (CMP)



STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
CB-1	60.00	55.60 (SD-3)	55.50 (SD-1.1)	48"
CB-2	59.89	55.47 (SD-1.1) 55.47 (SD-3.1)	55.37 (SD-2.1)	48"
CB-3	59.89		56.48 (SD-3.1)	48"
CB-4	59.00		52.50 (SD-10)	48"
CB-5	60.25		53.83 (SD-5.4) 51.33 (SD-5.1)	48"
DMH-1	54.96	49.35 (SD-2) 45.76 (SD-5)	45.66 (SD-1)	48"
DMH-2	58.74	50.14 (SD-10)	50.04 (SD-2)	48"
DMH-3	60.47	55.77 (SD-7)	55.67 (SD-3)	48"
DMH-4	67.04	61.93 (EXIST.)	54.46 (SD-4)	48"
DMH-5	60.12	55.33 (SD-2.1)	51.43 (SD-5.2) 51.43 (SD-5.5) 52.20 (SD-5.3)	60"
DMH-7	59.88	54.16 (SD-4)	51.43 (SD-6.1) 54.16 (SD-6.3) 54.16 (SD-6.2)	60"
DMH-8	41.38	31.17 (SD-9)	31.07 (SD-8)	48"
DMH-9	43.38	34.30 (SD-11)	31.52 (SD-9)	48"
OCS-1	60.40	51.20 (SD-5.3)	45.94 (SD-5)	60"

STORM DRAIN PIPE DATA

NAME	SIZE	LENGTH	SLOPE
EXIST.	8"	1'	1.41%
SD-1	15"	4'	0.73%
SD-1.1	15"	6'	0.50%
SD-2	12"	66'	1.05%
SD-2.1	15"	3'	1.32%
SD-3	15"	10'	0.68%
SD-3.1	12"	31'	3.27%
SD-4	12"	58'	0.52%
SD-5	15"	34'	0.53%
SD-5.1	12"	4'	0.00%
SD-5.2	12"	14'	0.69%
SD-5.3	15"	4'	25.11%
SD-5.4	12"	2'	0.00%
SD-5.5	12"	3'	3.12%
SD-6.1	12"	4'	2.23%
SD-6.2	12"	2'	51.13%
SD-6.3	12"	2'	70.79%
SD-7	15"	11'	2.18%
SD-8	6"	2'	0.84%
SD-9	6"	65'	0.53%
SD-10	12"	26'	9.14%
SD-11	6"	26'	0.57%

SANITARY SEWER PIPE DATA

NAME	SIZE	LENGTH	SLOPE
SS-1.1	8"	20'	0.60%
SS-1.2	8"	81'	0.51%
SS-2	18"	92'	6.60%
SS-3	15"	62'	1.51%
SS-4	15"	43'	4.07%
SS-6	12"	44'	0.52%
SS-7	12"	33'	0.58%
SS-7.1	8"	60'	0.50%
SS-9	12"	41'	12.25%
SS-10	12"	31'	7.12%

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH-1	55.09	44.71 (SS-2) 46.87 (SS-1.1) 45.63 (SD-1)	**44.61 (SS-13952)**	48"
SMH-1.1	53.96	47.09 (SS-12)	46.99 (SS-1.1)	48"
SMH-2	60.19	51.21 (SS-3) 51.41 (SS-16008)	50.77 (SS-2)	48"
SMH-3	60.27	52.24 (SS-4)	52.14 (SS-3)	48"
SMH-4	67.12	57.95 (SS-11065)	54.00 (SS-4)	48"
SMH-5	39.80	29.03 (SS-6)		48"
SMH-6	41.72	29.36 (SS-7) 29.36 (SS-13533 (DROP)) 31.05 (SS SD-8	29.26 (SS-6)	48"
SMH-7	43.54	29.65 (SS-7.1) 34.49 (SS-13875) 29.65 (SS-13875 (DROP)) 38.33 (SD-7.1)	29.55 (SS-7)	48"
SMH-8	54.26	44.98 (SS-9)	44.77 (SS- 13533)	48"
SMH-9	59.15	50.16 (SS-10)	50.06 (SS-9)	48"
SMH-10	68.50	52.46 (SS-13457 (DROP)) 61.32 (SS-13457)	52.36 (SS-10)	60"

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
CB 12640	**40.47**		38.52 (12" PVC)	48"
CB 13034	66.99		63.39 (12" PVC)	48"
CB 13581	42.72		40.62 (8" PVC)	48"
CB 13770	42.18	38.63 (6" PVC)	38.63 (8" PVC) 38.63 (8" PVC)	48"
CB 13796	42.56	38.86 (8" PVC)	38.66 (10" PVC)	48"
CB 15960	65.99		62.69 (8" PVC)	48"
CB 21201	108.29	102.69 (12" PVC)	102.64 (12" PVC)	48"
CB 26560	108.54		102.69 (12" PVC)	48"
CBR 21349	106.08	97.88 (12" PVC) 98.41 (12" CPP)	97.08 (15" HDPE)	48"
CBR 21385	106.32		102.63 (15" HDPE)	48"
CBR 21466	106.75	102.75 (6" PVC)	99.40 (12" PVC)	48"
CBR 21802	107.94		105.05 (8" CPP)	48"
CBR 21848	106.49	100.35 (15" CPP)	100.16 (18" HDPE)	48"
CBR 22087	115.13	108.88 (15" CPP) 106.38 (18" RCP) 106.53 (6" PVC)	106.37 (18" CPP)	48"
CBR 25688	125.20		121.67 (12" CPP)	48"
DMH 12906	72.45	62.96 (12" PVC) 67.07 (12" RCP)	63.08 (12" RCP)	48"
DMH 12909	66.75	60.15 (12" RCP) 59.95 (12" PVC)	59.90 (12" PVC)	48"
DMH 12914	65.09	57.39 (12" PVC) 59.74 (10" CPP) 49.37 (24" CPP)	49.31 (24" CPP)	48"
DMH 12964	65.52			48"
DMH 12965	64.52	47.80 (18" CPP)	49.80 (24" CPP)	48"

STORM DRAIN STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
DMH 12966	58.60	49.83 (4" PVC) 53.17 (6" PVC) 52.77 (18" DI)	48.38 (18" CPP)	48"
DMH 13456	80.75	72.05 (18" HDPE)	67.87 (18" DI)	48"
DMH 13592	42.89	37.64 (10" PVC) 37.79 (8" PVC)	37.59 (12" PVC)	48"
DMH 13952	**67.02**		64.98 (4" DI)	48"
DMH 15953	67.00			48"
DMH 21220	108.04	104.44 (6" PVC) 87.36 (12" RCP) 94.86 (12" RCP)	86.99 (12" PVC)	48"
DMH 21240	107.93	101.68 (12" RCP) 101.68 (12" PVC)	101.58 (12" CPP)	48"
DMH 21425	106.58	101.79 (15" HDPE) 96.27 (15" HDPE)	96.24 (18" HDPE)	48"
DMH 21468	**106.93**	103.99 (6" PVC)	103.94 (6" PVC)	48"
DMH 21903	110.18		107.30 (8" PVC)	48"
DMH 21913	**110.33**	107.30 (8" PVC) 102.76 (18" PVC) 107.25 (18" PVC) 101.85 (18" CPP)	101.84 (15" CPP)	48"
DMH 22098	115.18	106.03 (18" CPP)	105.99 (18" CPP)	48"
DMH 25531	130.05	110.05 (12" PVC)	109.44 (18" RCP)	48"
DMH 25556	128.73	110.87 (12" PVC) 121.03 (12" CPP)	110.11 (12" PVC)	48"
DMH 25575	128.66	121.31 (12" CPP)	121.21 (12" CPP)	48"
DMH 26205	89.94	83.67 (18" HDPE) 83.72 (6" PVC) 84.60 (18" HDPE)	83.64 (18" HDPE)	48"
DMH 26212	97.74	87.11 (18" HDPE)	87.11 (18" HDPE)	48"

SANITARY SEWER STRUCTURE DATA

STRUCTURE	RIM	INV. IN	INV. OUT:	DIAM.
SMH 12949	61.78	51.90 (6" PVC) 53.38 (12" PVC)	52.38 (12" PVC)	48"
SMH 13457	79.44	72.28 (15" PVC)	64.64 (15" PVC)	48"
SMH 13475	62.91	56.69 (15" PVC) 52.29 (15" PVC)	52.08 (12" PVC)	48"
SMH 13482	55.71	50.14 (12" PVC)	46.09 (12" PVC)	48"
SMH 13533	53.55	45.65 (12" PVC) 46.82 (12" PVC)	44.38 (12" RCP)	48"
SMH 13820	41.72	32.77 (10" PVC) 32.44 (12" RCP)	32.42 (12" RCP)	48"
SMH 13932	52.64	43.42 (15" RCP) 44.44 (12" PVC) 41.64 (18" RCP) 44.64 (8" PVC)	40.64 (18" RCP)	48"
SMH 13952	55.09	45.89 (12" PVC)	44.61 (18" RCP)	48"
SMH 15163	81.98	71.98 (12" PVC)	72.88 (12" PVC)	48"
SMH 16008	69.24	61.07 (10" PVC) 61.17 (10" PVC) 62.19 (12" PVC)	60.86 (12" PVC)	48"
SMH 16047	**72.79** 72.94	64.59 (8" PVC) 64.57 (8" PVC) 69.76 (4" PVC) 64.29 (8" RCP)	64.19 (10" PVC)	48"
SMH 16091	77.67	69.37 (8" PVC)	69.34 (8" PVC)	48"
SMH 16094	75.92	69.15 (8" PVC)	69.05 (8" PVC)	48"
SMH 21114	107.75	99.95 (8" PVC) 99.86 (8" PVC)	99.60 (8" PVC)	48"
SMH 21423	106.57	97.17 (12" PVC)	86.18 (12" PVC)	48"
SMH 22095	115.44	108.75 (18" PVC)	108.49 (15" PVC)	48"
SMH 25522	130.11	117.21 (15" PVC)	117.16 (15" PVC)	48"
SMH 25558	128.59	110.01 (12" PVC)	110.00 (12" PVC)	48"
SMH 26197	88.26	83.62 (12" PVC) 80.53 (12" PVC) 82.56 (15" CPP) 83.62 (15" PVC)	80.51 (15" PVC)	48"
SMH 26365	107.74	97.99 (8" PVC) 98.01 (12" PVC)	97.74 (12" PVC)	48"
SMH 26367	130.04	109.83 (12" PVC) 109.87 (15" PVC)	109.76 (18" PVC)	48"

PERKINS + WILL
225 Franklin Street, Suite 1100
Boston, MA 02110
t 617.478.0300
f 617.478.0321
www.perkinswill.com

CLIENT

Maine Medical Center
MaineHealth

Maine Medical Center
22 Bramhall Street
Portland, ME 04102

CONSULTANTS

CIVIL/ LANDSCAPE ARCHITECT
Sebago Technics Inc.
75 John Roberts Road, Suite 1A,
South Portland, ME 04106

STRUCTURAL ENG/ BUILDING ENVELOPE CONSULTANT
Simpson Gumpertz & Heger Inc.
41 Seyon Street, Building 1, Suite 500,
Waltham, MA 02453

MEPFP ENGINEER/CODE/LOW VOLTAGE
AKF Group LLC
99 Bedford Street, 2nd Floor, Boston, MA 02111

CONSTRUCTION MANAGER
TURNER CONSTRUCTION
2 Seaport Lane, Suite 200, Boston, MA 02210

ELEVATOR CONSULTANT
VDA (Van Deusen & Associates)
101 Summer Street, 4th Floor, Boston, MA 02110

COST ESTIMATOR
D.G. Jones International
3 Baldwin Green Common,Suite 202, Woburn, MA 01801

MEDICAL EQUIPMENT PLANNING
Mitchell Planning
630 Dundee Road, Suite 340, Northbrook IL 60062

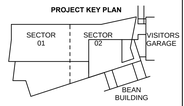
PROJECT TITLE

Congress Street Building
22 Bramhall Street
Portland ME 04102

STATE OF MAINE
DANIEL L RILEY
No. 7697
PROFESSIONAL ENGINEER
11-27-18

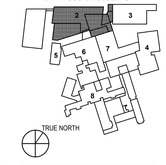
KEY PLANS

PROJECT KEY PLAN



OVERALL KEY PLAN

1 - NOT USED
2 - CONGRESS STREET
3 - VISITOR GARAGE
4 - EAST TOWER
5 - CENTRAL UTILITY PLANT
6 - BEAN BUILDING
7 - RICHARDS BUILDING
8 - MAINE GENERAL BUILDING



RESUBMIT TO CITY
NOVEMBER 27, 2018

NO	ISSUE	DATE

Job Number	152189.000
Drawn	MAL/MAM
Checked	DLR
Approved	DLR

TITLE

UTILITY PLAN CONGRESS STREET EXPANSION

SHEET NUMBER

C11-01

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152189.2.dwg, TAB: U-CONGRESS