

PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL RUN PIPING AT RIGHT ANGLES TO THE BUILDING CONSTRUCTION.
2. SHOULD ANY DAMAGE OCCUR TO THE WORK OF OTHER TRADES DUE TO EXECUTION OF THIS CONTRACT, SUCH DAMAGE SHALL BE PROPERLY REPAIRED WITHOUT EXTRA CHARGE.
3. PROVIDE STOP (SHUT-OFF) VALVE ON EACH LINE SUPPLYING A FAUCET, CW, HW, NPCW, NPHW, GAS, AIR, AND PW SERVICE FITTING ON LAB BENCH UTILITIES.
4. SEE SIZING SCHEDULE BELOW FOR PIPE SIZING INFORMATION.
5. PROVIDE DEEP SEAL TRAPS FOR ALL SINKS AND EQUIPMENT.
6. PROVIDE "UNISTRUT" OR SIMILAR SUPPORT SYSTEM FOR UTILITY AND PIPING IN ISLANDS AND AGAINST WALLS.
7. FIELD VERIFY EXACT LOCATION OF ALL EXISTING PIPING.
8. COORDINATE CONSTRUCTION SEQUENCING WITH OWNER AND CONSTRUCTION MANAGER.
9. ALL UNLABELED ES/EW UNITS ARE TO BE ES/EW-1, LOCATED IN LABS.
10. WHERE EXISTING WORK (PIPING INSULATION, EQUIPMENT, ETC.) IS DAMAGED IN EXECUTION OF THIS CONTRACT OR WHERE OPENINGS ARE LEFT DUE TO REMOVALS, IT SHALL BE CLOSED, AND REPAIRED WITH CORRESPONDING MATERIALS TO MATCH EXISTING.

BUILDING DEPARTMENT NOTES:

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE NEW JERSEY EDITION. WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF ALL LOCAL LAWS, BY LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK.

REMOVAL NOTES

- A. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT.
- B. VERIFY ALL GOVERNING DIMENSIONS, PIPE SIZES AND LOCATION OF THE PIPING AND EQUIPMENT TO BE REMOVED.
- C. NOTIFY CONSTRUCTION MANAGER AT LEAST 10 BUSINESS DAYS BEFORE DEMOLITION WORK OR BEFORE SHUT DOWN OF EXISTING SERVICES.
- D. ALL FIXTURES, EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE PROPERLY DISPOSED OF.
- E. UPON COMPLETION OF ALL NEW WORK NO ABANDONED PIPING SHALL REMAIN.
- F. THE EXISTING SYSTEMS SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
- G. LOCATIONS AND SIZES OF EXISTING PIPING ARE APPROXIMATE. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING AT THE SITE.
- H. NO REMOVED EXISTING PIPING FITTINGS, VALVES, FIXTURES, ETC. SHALL BE REUSED UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- I. NEW WORK SHALL NOT IMPACT EXISTING BUILDING NOR INTERFERE WITH THE SERVICES IN ANY WAY WITHOUT THE EXPRESS PERMISSION IN WRITING BY THE CONSTRUCTION MANAGER. SUCH INTERRUPTIONS AND INTERFERENCES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME STATED BY THE CONSTRUCTION MANAGER.
- J. REFER TO ARCHITECTURAL DRAWINGS FOR ALL CEILING HEIGHTS.

PIPING ALLOWANCE:

INCLUDE AN ADDITIONAL ALLOWANCE FOR 100' OF 8" & 160' OF 10" STORM PIPING AND 200' OF 4" LAB WASTE PIPING. INCLUDE HANGERS AND INSTALLATION.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	DESCRIPTION	WASTE (W)	VENT (V)	POTABLE COLD WATER	LAB WASTE (LW) (TRAP SIZE)	LAB VENT (LV)	POTABLE HOT WATER	NONPOTABLE COLD WATER (NPCW)	NONPOTABLE HOT WATER (NPHW)	DRAINAGE FIXTURE UNITS	SUPPLY FIXTURE UNITS	REMARKS
P-1	WATER CLOSET(WALL HUNG)	4"	2"	1 1/4"	-	-	-	-	-	4	5	SENSOR FLUSH VALVE
P-1A	WATER CLOSET(WALL HUNG) - BF	4"	2"	1 1/4"	-	-	-	-	-	4	5	SENSOR FLUSH VALVE
P-2	URINAL (WALL HUNG) - BF	2"	1 1/2"	1"	-	-	-	-	-	4	4	SENSOR FLUSH VALVE
P-3	LAVATORY COUNTER-BF	1 1/2"	1 1/2"	1/2"	-	-	1/2"	-	-	1	1	SENSOR FAUCET
P-3A	LAVATORY WALL HUNG-BF	1 1/2"	1 1/2"	1/2"	-	-	1/2"	-	-	1	1	SENSOR FAUCET
P-4	MOP RECEPTOR	3"	1 1/2"	3/4"	-	-	3/4"	-	-	3	3	-
P-5	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-	-	-	-	-	.5	.5	-
P-6	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	1/2"	-	-	-	-	-	.5	.5	-
P-7	HAND SINK	1 1/2"	1 1/2"	1/2"	-	-	-	-	-	2	1	-
*LS	*LAB SINK	-	-	-	1-1/2"	1-1/2"	-	1/2"	1/2"	2	1	-
*CS	*CUP SINK	-	-	-	1-1/2"	1-1/2"	-	1/2"	-	1	1	-
*EW	*EYE WASH	-	-	-	-	-	1/2" TEMPERED WATER	-	-	2	1	COUNTERTOP MOUNTED
EW-1	EYE WASH	-	-	-	-	-	1/2" TEMPERED WATER	-	-	2	1	WATER SAVER, #EW814BC, WALL MOUNTED EYE WASH W/COVER USE WITH TMV-1
EW/ES-1	EYE WASH/EMERGENCY SHOWER	-	-	-	-	-	1 1/4" TEMPERED WATER	-	-	-	5	WATER SAVER, #SSBF2150, RECESSED COMBINATION EMERGENCY SHOWER/EYE WASH, USE WITH TMV-2
EW/ES-2	EYE WASH/EMERGENCY SHOWER	-	-	-	-	-	1 1/4" TEMPERED WATER	-	-	-	5	WATER SAVER, #SSBF2173, SURFACE MT. COMBINATION EMERGENCY SHOWER/EYE WASH, USE WITH TMV-2
EW/ES-3	EYE WASH/EMERGENCY SHOWER	-	-	-	-	-	1 1/4" TEMPERED WATER	-	-	-	5	WATER SAVER, #SS909, COMBINATION EMERGENCY SHOWER/EYE WASH, USE WITH TMV-2

\* REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIXTURES AND TRIM INDICATED IN SCHEDULE ABOVE WITH \*

DRAWING LIST

P0.01G	PLUMBING NOTES, SCHEDULES, SYMBOLS AND DRWING LIST	P3.01G	PLUMBING PART PLANS G-WING
P1.01G	PLUMBING 1ST FLOOR DEMO PLAN G-WING	P4.01G	PLUMBING SANITARY AND DOMESTIC WATER RISER DIAGRAMS G-WING
P1.02G	PLUMBING 2ND FLOOR DEMO PLAN G-WING	P4.02G	PLUMBING LAB POTABLE & NON-POTABLE WATER & GAS RISER DIAGRAMS SHEET No. 1 G-WING
P1.03G	PLUMBING 3RD FLOOR DEMO PLAN G-WING	P4.03G	PLUMBING LAB POTABLE & NON-POTABLE WATER & GAS RISER DIAGRAMS SHEET No. 2 G-WING
P1.04G	PLUMBING 4TH FLOOR DEMO PLAN G-WING	P4.04G	PLUMBING LAB POTABLE & NON-POTABLE WATER & GAS RISER DIAGRAMS SHEET No. 3 G-WING
P1.05G	PLUMBING PENTHOUSE DEMO PLAN G-WING	P4.05G	PLUMBING LABORATORY WASTE RISER DIAGRAMS SHEET No. 1 G-WING
P2.01G	PLUMBING 1ST FLOOR PLAN G-WING	P4.06G	PLUMBING LABORATORY WASTE RISER DIAGRAMS SHEET No. 2 G-WING
P2.02G	PLUMBING 2ND FLOOR PLAN G-WING	P4.07G	PLUMBING STORM RISER DIAGRAM G-WING
P2.03G	PLUMBING 3RD FLOOR PLAN G-WING	P5.01	PLUMBING DETAILS SHEET No. 1
P2.04G	PLUMBING 4TH FLOOR PLAN G-WING	P5.02	PLUMBING DETAILS SHEET No. 2
P2.05G	PLUMBING PENTHOUSE PLAN G-WING	P5.03	PLUMBING DETAILS SHEET No. 3
P2.06G	PLUMBING PENTHOUSE ROOF PLAN G-WING		

PLUMBING FIXTURES & TRIM

P-1: WATER CLOSET

SLOAN, WETS 2053.1301-1.6-ES-S, ELONGATED WALL HUNG WATER CLOSET, 1.6 GPF, 1/2" TOP SPUD, WITH OPEN FRONT SEAT AND CHAIR CARRIER. FLUSH VALVE, 1.6 GPH, HARD WIRED, EXPOSED, SENSOR FLUSH VALVE WITH TRANSFORMER AND ACCESS PANEL, REFER TO ELECTRICAL DRAWINGS FOR NUMBER OF TRANSFORMERS AND LOCATIONS.

P-1A: WATER CLOSET

SLOAN, WETS 2053.1301-1.6-ES-S, ELONGATED WALL HUNG WATER CLOSET, 1.6 GPF, 1/2" TOP SPUD, WITH OPEN FRONT SEAT AND CHAIR CARRIER. FLUSH VALVE, 1.6 GPF, HARD WIRED, EXPOSED SENSOR FLUSH VALVE WITH TRANSFORMER AND ACCESS PANEL, REFER TO ELECTRICAL DRAWINGS FOR NUMBER OF TRANSFORMERS AND LOCATIONS. MOUNT TO MEET BARRIER-FREE INSTALLATION REQUIREMENTS.

P-2: URINAL

SLOAN, WESU-1005.1304-0.5 ES-S TMO, WALL HUNG WASHDOWN URINAL, 0.5 GPF, 3/4" TOP SPUD AND CHAIR CARRIER. FLUSH VALVE, 0.5 GPF, HARD WIRED, EXPOSED, SENSOR FLUSH VALVE WITH TRANSFORMER AND ACCESS PANEL, REFER TO ELECTRICAL DRAWINGS FOR NUMBER OF TRANSFORMERS AND LOCATIONS. MOUNT TO MEET BARRIER-FREE INSTALLATION REQUIREMENTS.

P-3: LAVATORY

ELKAY, ELU1511, STAINLESS STEEL OVAL LAVATORY, UNDER COUNTER LAVATORY W/OVERFLOW. SLOAN, EAF-150-ISM-IC BATTERY OPERATED SENSOR FAUCET W/INTEGRAL TEMPERATURE CONTROL MIXER, SET TEMPERATURE AND REMOVE HANDLE. SUPPLY WITH GRID DRAIN & TAILPIECE, TRAP, SUPPLIES AND ANGLE STOPS. PROVIDE MANUFACTURED INSULATED TRAP AND SUPPLY COVERS SIMILAR TO TURBO.

P-3A: LAVATORY

SLOAN, #SS-3103, WALL HUNG LAVATORY, SLOAN, EAF-150-ISM-IC, BATTERY OPERATED SENSOR FAUCET W/INTEGRAL TEMPERATURE CONTROL MIXER, SET TEMPERATURE AND REMOVE HANDLE AND CONCEALED ARM FLOOR LAVATORY CARRIER. SUPPLY WITH GRID DRAIN & TAILPIECE, TRAP, SUPPLIES AND ANGLE STOPS. PROVIDE MANUFACTURED INSULATED TRAP AND SUPPLY COVERS SIMILAR TO TURBO.

P-4: MOP RECEPTOR

FIAT, TBS-100, TERRAZZO MOP RECEPTOR, 24" X 24", STAINLESS STEEL RIM CAP. FAUCET, SPEAKMAN #SC-5812.

P-5: ELECTRIC WATER COOLER

FILTRINE, #FCC-107-16-HL, TWO-LEVEL, #4 SATIN STAINLESS STEEL DRINKING FOUNTAIN AND COVER PLATE, SEPARATE SOFT TOUCH BUBBLER, INTEGRAL BOTTLE FILLER ON COVER PLATE, LOWER FOUNTAIN ON LEFT, WITH CHILLER/PURIFIER MOUNTED RECESSED IN WALL, DRAIN AND TAILPIECE, FURNISH SUPPORTS, P-TRAPS AND SUPPLIES.

P-6: ELECTRIC WATER COOLER

FILTRINE, #107-16-HL-TMP, TWO-LEVEL, #4 SATIN STAINLESS STEEL DRINKING FOUNTAIN AND COVER PLATE, SEPARATE SOFT TOUCH BUBBLER, INTEGRAL BOTTLE FILLER ON COVER PLATE, LOWER FOUNTAIN ON LEFT, WITH M-2-BW-A CHILLER IN CEILING ABOVE FOUNTAINS, DRAIN AND TAILPIECE, FURNISH SUPPORTS, P-TRAPS AND SUPPLIES.

P-7: HAND SINK

ELKAY, #ELW2219CS3, STAINLESS STEEL WALL MOUNTED SINK, 18 GAUGE, STAINLESS STEEL SUPPORT BRACKETS AND SEPARATE TOUCH HANGER, LK174 GRID STRAINER AND TAILPIECE, P-TRAP AND SUPPLIES. FAUCET TO BE SPECIFIED AND SUPPLIED AS PART OF THE LAB CASEWORK.

PLUMBING SYMBOL LIST

-----	BELOW SLAB PIPING	LW	LAB WASTE
--- SAN ---	SANITARY PIPING	LV	LAB VENT
--- LW ---	LAB WASTE PIPING	LVTR	LAB VENT THRU ROOF
--- LV ---	ACID VENT PIPING	CA, A	COMPRESSED AIR
--- V ---	VENT PIPING	CIRC	EXISTING CIRCULATION PIPING
--- CA ---	COMPRESSED AIR PIPING	CS	CUP SINK
--- VAC ---	VACUUM PIPING	CW	COLD WATER
--- G ---	GAS PIPING	CLG	CEILING
--- PW ---	PURIFIED WATER	DWG	DRAWING
--- PWR ---	PURIFIED WATER RETURN	DI	DEIONIZED WATER
--- NPCW ---	NON-POTABLE COLD WATER PIPING	DF	DRINKING FOUNTAIN
--- EWC ---	POTABLE COLD WATER PIPING	EW	ELECTR. WATER COOLER
--- NPHW ---	NON-POTABLE HOT WATER PIPING	EW/ES	EMERGENCY EYEWASH/EMERGENCY SHOWER STATION
--- E ---	POTABLE HOT WATER PIPING	EW	EMERGENCY EYEWASH
--- NPHWR ---	NON-POTABLE HOT WATER RETURN PIPING	FD	FLOOR DRAIN
--- FH ---	POTABLE HOT WATER RETURN PIPING	FH	FUME HOOD
-----	EXISTING PIPING TO REMAIN	G	GAS
=====	EXISTING PIPING TO BE REMOVED	HB	HOSE BIBB
-----	WATER HAMMER ARRESTER/SHOCK ABSORBER	HW	HOT WATER
-----	CHECK VALVE	HWR	HOT WATER RETURN
-----	GAS SOLENOID VALVE	LAB	LABORATORY
-----	PIPING UP - PIERCES FLOOR	LAIR	LAB AIR COMPRESSOR
-----	PIPING DROP - PIPING DROPS WITHIN STORY HEIGHT	LS	LAB SINK
-----	PIPING RISE - PIPING RISES WITHIN STORY HEIGHT	LVAC	LAB VACUUM PUMP
-----	BOTTOM OF PIPE TAKE-OFF	LPW	LAB PURIFIED WATER SYSTEM
-----	GAS COCK	WH	WATER HEATER
-----	SHUT-OFF VALVE	RD	ROOF DRAIN
-----	CLEANOUT	S	SPECIAL GAS
-----	CLEANOUT DECK PLATE	SA	SHOCK ABSORBER
-----	FLOOR DRAIN	SAN	SANITARY
-----	TRAP	TMV	THERMOSTATIC MIXING VALVE
-----	HOSE BIBB	VAC	VACUUM
-----	TRAP PRIMER WITH VALVE AND DISTRIBUTION BOX	V	VENT
-----	CONNECT TO EXISTING	NFWH	NON-FREEZE WALL HYDRANT
-----	POINT OF DISCONNECTION	NPCW	NONPOTABLE COLD WATER
-----	TYPICAL LABORATORY SINK P-TRAP	NPHW	NONPOTABLE HOT WATER
-----	TYPICAL HWR VALVING, CIRCUIT SETTER BALANCING VALVE, CHECK VALVE AND BALL VALVE, WITH (2) GAUGE PORTS	NPHWR	NONPOTABLE HOT WATER RETURN
-----	LABORATORY RISER NUMBER	OD	OVERFLOW DRAIN
-----	LABORATORY WASTE RISER NUMBER	PW	PURIFIED WATER
-----	NEW SANITARY/RISER NUMBER	PWR	PURIFIED WATER RETURN
-----	DOMESTIC WATER NUMBER	TYP	TYPICAL
-----	NEW STORM WATER LEADER NUMBER	VTR	VENT THRU ROOF
-----		WHA	WATER HAMMER ARRESTER

NOTE: SYMBOLS LIST IS PROVIDED FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED IN THIS PROJECT.

ELECTRONIC TRAP PRIMER

PRECISION PLUMBING PRODUCTS, INC., MODEL PTS-4 (6) (8) SUFFIX INDICATES NUMBER OF FLOOR DRAINS TO BE PRIMED. VACUUM BREAKER, 24-HOUR TIME CLOCK/OVERRIDE SWITCH/TEST BUTTON, SOLENOID VALVE AND MANIFOLD WITH APPROPRIATE NUMBER OF OUTLETS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR TRANSFORMER.

PLUMBING PUMP SCHEDULE

PUMP NO.	LOCATION	TYPE	SERVICE	GPM	TDH	RPM	HP	PHASE	CYCLE	VOLTS	REMARKS
SP-1	G-WING ELEVATOR	HYDRAULIC SUMP PUMP	ELEVATOR	20 GPM	23'	3600	1	1	60	115	ELEVATOR SUMP PUMP SIMILAR TO STANCOR SUBMERSIBLE TYPE MODEL SE 50, 2" DISCHARGE, GATE VALVE & CHECK VALVE.
CR-1	FIRST FLOOR G-WING	CIRC. PUMP	POTABLE WATER SYSTEM	15	15	3200	260 WATTS	1	60	115	BELL & GOSSETT, BRONZE FOX, NBF-45, BRONZE CIRCULATOR PROVIDE AQUASTAT FOR CONTROL OF CIRC. PUMP
CR-2	FIRST FLOOR G-WING	CIRC. PUMP	NON-POTABLE WATER SYSTEM	15	15	3200	260 WATTS	1	60	115	BELL & GOSSETT, BRONZE FOX, NBF-45, BRONZE CIRCULATOR PROVIDE AQUASTAT FOR CONTROL OF CIRC. PUMP

WATER HEATER SCHEDULE (STEAM)

WATER HEATER NO.	LOCATION	SERVICE	FLOW RATE GPM	GALLONS STORAGE	STEAM INLET PRESSURE (PSIG)	STEAM PRESS. IN COILS (PSIG)	STEAM FLOW RATE (LBS/HR)	MOTOR DATA			DIMENSIONS	REMARKS
								AMPS	PHASE	CYCLE	VOLTS	
WH-1&2	FIRST FLOOR G-WING MECHANICAL RM.	POTABLE WATER SYSTEM	35	-	10	6.5	1716	1	1	60	120	31"W x 27"D x 82"H "AERCO" MODEL # B+08/2.50
WH-3&4	FIRST FLOOR G-WING MECHANICAL RM.	NON-POTABLE WATER SYSTEM	48	-	10	3.5	2408	1	1	60	120	31"W x 27"D x 91"H "AERCO" MODEL # B+11/2.50

PURIFIED WATER SYSTEM

EQUIP. NO.	LOCATION	SERVICE	RO WATER PRODUCTION GPD	RO WATER RECIRC. GPM	STORAGE TANK GALLONS	U.V. STERILIZER FLOW RATE	PHASE	HERTZ	VOLTS	REMARKS
LPW-1	PENTHOUSE MECHANICAL ROOM G-WING	LABORATORY PURIFIED WATER	1,500	18 GPM @65 PSI	175	20 GPM	1	60	120	HYDRO SERVICE & SUPPLIES, INC OR APPROVED EQUAL, REFER TO SPECIFICATION SECTION 226010 FOR EQUIPMENT CAPACITIES

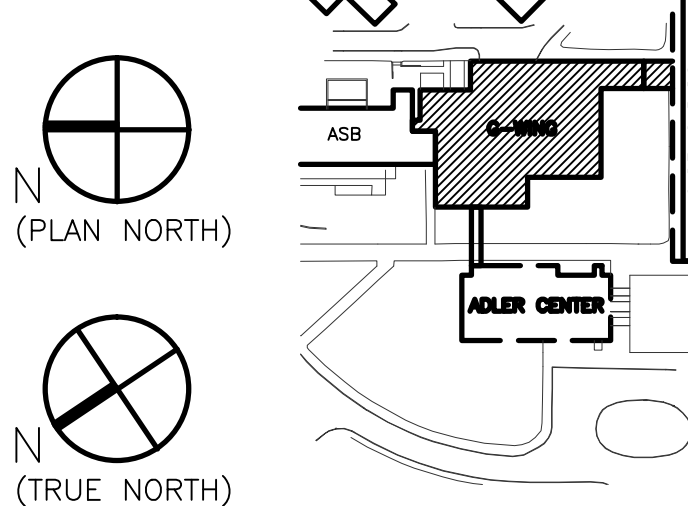
VACUUM PUMP SCHEDULE

EQUIP. NO.	LOCATION	SERVICE	CFM (EACH PUMP)	HP	PHASE	HERTZ	VOLTS	REMARKS
LVAC-1&2	PENTHOUSE MECHANICAL ROOM G-WING	LABORATORY VACUUM	49 @ 19"Hg	(2) 15 HP	3	60	480	"BEACON MEDAES" DUPLEX VACUUM SYSTEM MODEL LVS-15D-RC120V PUMPS, MOUNT ON PAD WITH INERTIA BLOCKS AND SPRING ISOLATORS.

AIR COMPRESSOR SCHEDULE

EQUIP. NO.	LOCATION	SERVICE	CFM (EACH PUMP)	HP	PHASE	HERTZ	VOLTS	REMARKS
LAIR-1,2,3&4	PENTHOUSE MECHANICAL ROOM G-WING	LABORATORY AIR	70 @ 100 PSIG	(4) 10 HP	3	60	480	"BEACON MEDAES" COMPRESSED AIR SYSTEM MODEL SAS10T-200V PUMPS, MOUNT ON PAD WITH INERTIA BLOCKS AND SPRING ISOLATORS.

Key Plan:



	6/8/12	DCA FILING
	7/19/12	ISSUED FOR BID
	9/14/12	BID ADDENDUM #1
	1/15/13	ISSUED FOR CONSTRUCTION
	8/12/16	AS-BUILT CONSTRUCTION DOCUMENTS

NR	DATE	COMMENTS
ISSUE/REVISION		

ALL DIMENSIONS AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED BY THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK.

Project:  
G-WING RENOVATION & ADLER CENTER

Submission:  
CONSTRUCTION DOCUMENTS

Drawing Title:  
PLUMBING NOTES, SCHEDULES, SYMBOLS & DRAWING LIST

PROJECT NR: 102700	DATE: 6/8/12
RCNJ PROJ. NR: 08-240C	SCALE: NONE

PO.01G



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