

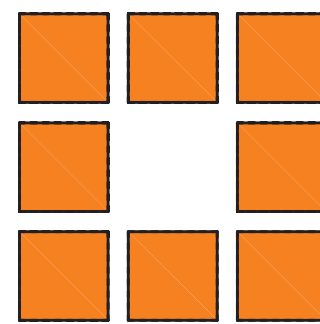
ROCKLAND GREEN MRF FACILITY IMPROVEMENTS

CONTRACT NO. 4 - PLUMBING

420 TORNE VALLEY ROAD HILLBURN NY 10931



RRT Engineering, LLC
1 Huntington Quadrangle, 3S01
Melville, N.Y. 11747
ph: 631-756-1060
fax: 631-756-1064



**ANDERSON
DESIGN
GROUP**

25 WALLKILL AVE • MONTGOMERY • NY 12549
O. 845.294.2724 | CONTACT@ADGARCHITECT.COM
WWW.ADGARCHITECT.COM



martinrogers
ENGINEERING CONSULTANTS
162 N. Pennsylvania Ave., Wilkes-Barre, PA 18701
t. 570.825.1000 | f. 570.825.9888 | www.mragc.com.

STERLING
Sterling Environmental Engineering, P.C.

OWNER:

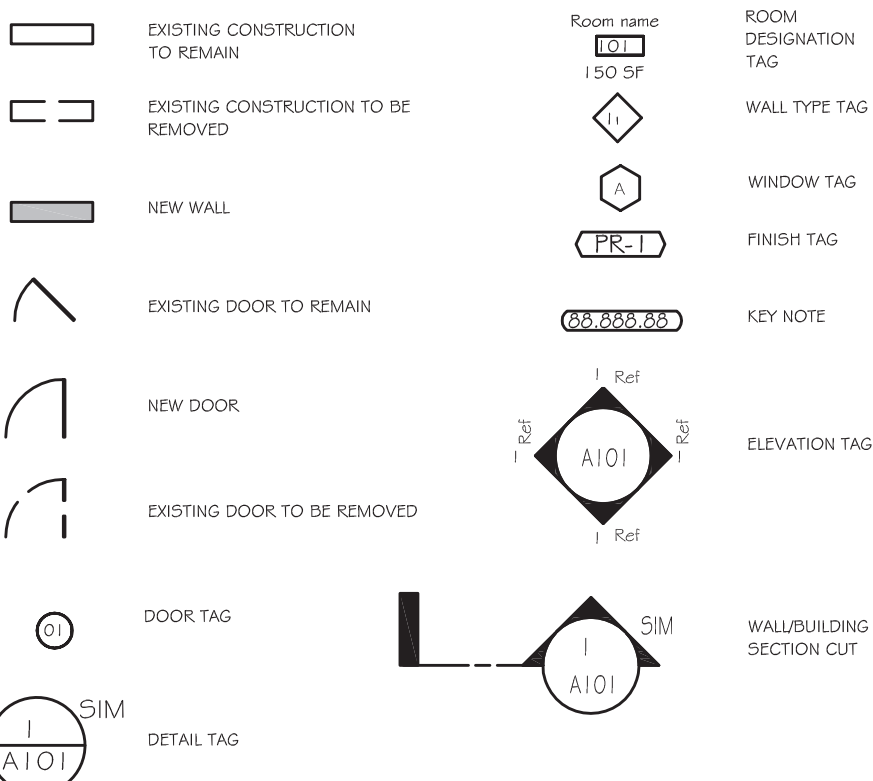
OWNER ENGINEER:

ARCHITECT:

MECHANICAL, ELECTRICAL AND PLUMBING ENGINEER:

CIVIL ENGINEER:

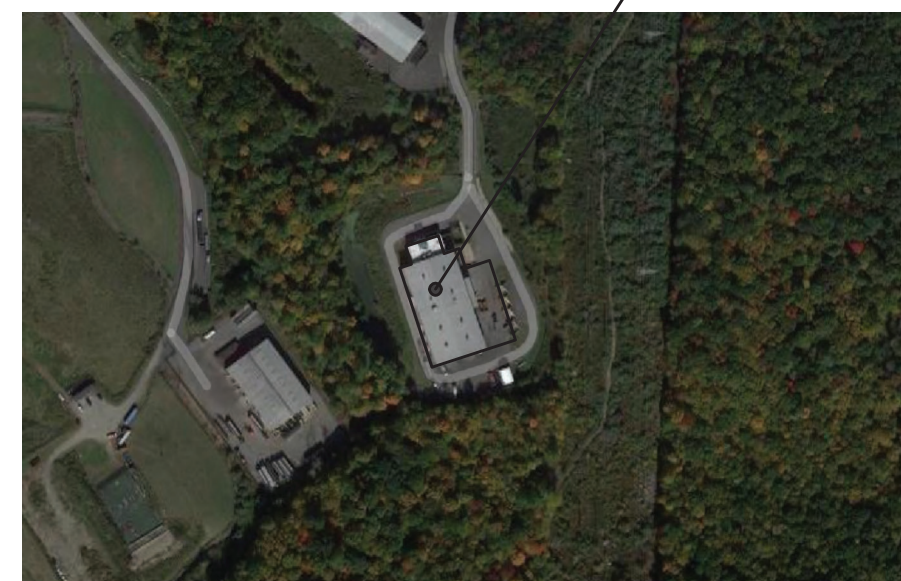
LEGEND:



ABBREVIATIONS:

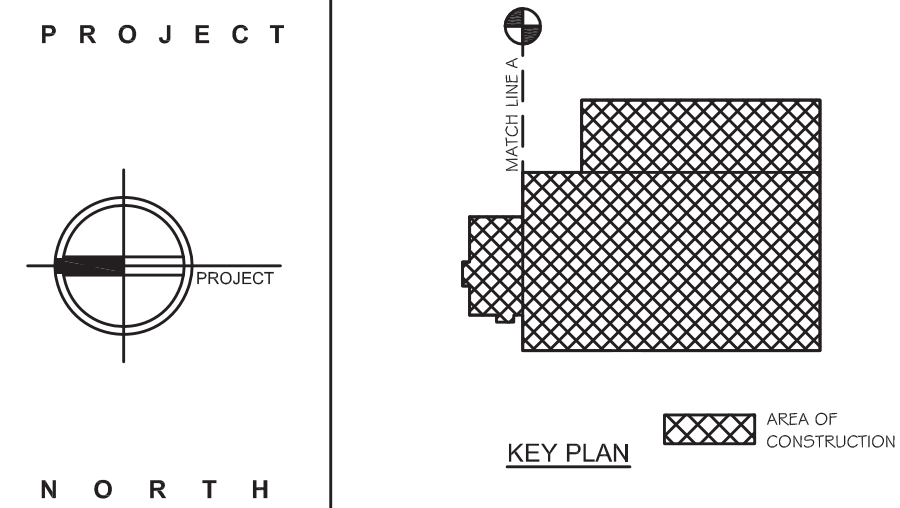
AB.	ANCHOR BOLT	MAT.	MATERIAL
A.C.T.	ACOUSTICAL CEILING TILE	MAX.	MAXIMUM
A.F.F.	ABOVE FINISH FLOOR	MECH.	MECHANICAL
APPX.	APPROXIMATE	MIN.	MINIMUM
ARCH.	ARCHITECT	MIR.	MIRROR
BSMT.	BASEMENT	MISC.	MISCELLANEOUS
BM	BEAM	MTL	METAL
BO	BOARD	NOM.	NOMINAL
BOT.	BOTTOM	N.T.S.	NOT TO SCALE
BUDG.	BUILDING	O.C.	ON CENTER
CAB.	CABINET	O.H.	OVERHEAD
CLG.	CEILING	PTD.	PAINTED
C.T.	CERAMIC TILE	P. LAM.	PLASTIC LAMINATE
CR.	CORNER	PL.	PLATE
COL.	COLUMN	P.S.F.	POUNDS PER SQ. FOOT
C.J.	CONTROL JOINT	P.S.I.	POUNDS PER SQ. INCH.
CORR.	CORROSION	PREFAB.	PREFABRICATED
D.L.	DEAD LOAD	P.T.	PRESSURE TREATED (WOOD)
DTL.	DETAIL	RAD.	RADIUS
DIAM.	DIAMETER	R/LG.	RAILING
DIM.	DIMENSION	REF.	REFRIGERATOR
D.W.	DISHWASHER	REINF.	REINFORCED (CONC.)
D.H.	DOUBLE HUNG	REV.	REVISION (ED, EDD)
D.S.	DOWNSPOUT	RFG.	RISER
DWG.	DRAWING	RFG.	ROOFING
ELEC.	ELECTRICAL	RM.	ROOM
ELEV.	ELEVATION	SEC.	SECTION
EQ.	EQUAL	SHING.	SHEATHING
EXST.	EXISTING	SHT.	SHEET
EXT.	EXTERIOR	SIM.	SIMILAR
E.I.F.S.	EXTERIOR INSULATED FINISH SYSTEM	S.C.	SOLID CORE
FIN.	FINISH	SPEC.	SPECIFICATION
F.P.	FIREPLACE	SQ.	SQUARE
FLO.	FLOOR	STD.	STANDARD
F.D.	FLOOR DRAIN	STR.	STRUCTURAL
FTG.	FOOTING	THK.	THICKNESS
FND.	FOUNDATION	THRS.	THRESHOLD
FUR.	FURRED	T&G.	TONGUE AND GROOVE
G.C.	GENERAL CONTRACTOR	T.O.C.	TOP OF CONCRETE
G.L.	GLASS GLAZING	T.O.B.	TOP OF BEAM
GYP.BD.	GYPSUM BOARD	T.O.F.	TOP OF FOUNDATION
HDR.	HARDWARE	T.O.P.	TOP OF PLATE
HDR.	HEADER	TR.	TREAD
HTG.	HEATING	TYP.	TYPICAL
HVAC.	HEATING/VENTILATION/AIR CONDITIONING	UNF.	UNFINISHED
HGT.	HEIGHT	U.O.N.	UNLESS OTHERWISE NOTED
HORIZ.	HORIZONTAL	V.B.	VAPOR BARRIER
H.S.	HOSE BIBB	VERT.	VERTICAL
INS.	INSULATED (IRON)	V.I.F.	VERIFY
JT.	JOINT	W.C.	WATER CLOSET
JST.	JOIST	W.P.	WATER PROOFING
KIT.	KITCHEN	W.R.	WATER RESISTANT
LAV.	LAVATORY	WN.	WINDOW
LT.	LIGHT	WO.	WITHOUT
L.L.	LIVE LOAD	WO.	WOOD
MFR.	MANUFACTURER		
MAS.	MASONRY		

SHEET LIST TABLE				REVISION HISTORY			CURRENT REVISION		
SHT.	SHEET TITLE	DRAWING DATE	100% CONSTRUCTION DOCUMENT	DATE	DESCRIPTION	ISSUED (Y/N)	DATE	DESCRIPTION	ISSUED (Y/N)
P-000	TITLE SHEET PLUMBING	07/30/21	100%						
P-001	LEGEND, NOTES AND DRAWING SCHEDULE	07/30/21	100%						
PD-101	PARTIAL FIRST FLOOR PLANS - AREA 3	07/30/21	100%						
P-101	PARTIAL FIRST FLOOR PLANS - AREA 3	07/30/21	100%						
P-102	PARTIAL SECOND FLOOR PLANS - AREA 3	07/30/21	100%						
P-103	PARTIAL FIRST FLOOR PLAN - WATER AREA 1, 2	07/30/21	100%						
P-104	PARTIAL FIRST FLOOR PLAN - SANITARY AREA 4-6	07/30/21	100%						
P-105	ROOF PLAN - PLUMBING	07/30/21	100%						
P-301	GAS LOADS AND RISER DIAGRAM	07/30/21	100%						



ROCKLAND GREEN FACILITY IMPROVEMENTS PHASING NOTE

- Rockland Green is soliciting proposals for the construction of improvements to its existing Materials Recovery Facility (MRF), as further detailed in the Drawings and Specifications. These Facility Improvements include, but are not limited to, a building addition, site work, interior demolition work, interior build-out work, electric service upgrades and reworked mechanical, plumbing, electrical, fire sprinkler and fire alarm systems to accommodate a new state-of-the-art dual stream recyclables processing system supplied and installed under Contract No. 1 - Processing Equipment.
- The Facility Improvements are being procured through separate contracts as follows:
 - Contract No. 2 - Facility Improvements: General Construction
 - Contract No. 3 - Facility Improvements: Mechanical/HVAC
 - Contract No. 4 - Facility Improvements: Plumbing
 - Contract No. 5 - Facility Improvements: Electrical
 - Contract No. 6 - Facility Improvements: Fire Protection System
- The building has been divided into the following area designations:
 - Area 1 - Existing Tipping Area.
 - Area 2 - Existing Processing Area.
 - Area 3 - Existing Administration Area.
 - Area 4 - New Commingled Tipping Area.
 - Area 5 - New Storage & Glass Processing Area
 - Area 6 - New Truck Loading Dock Area.
- Work shall commence on the exterior and in the Areas 1 through 6 for its Substantial Completion to be achieved prior to the start of delivery and installation of the Dual Stream Recyclables Processing System, which is scheduled to occur early December 2021. It shall include all Work as defined in the Contract Documents, Specifications, and RFP Addendum 4. It shall also include all rough-ins associated with Mechanical, Electrical, Plumbing, and Fire Protection Equipment. All final connections of Mechanical, Electrical, Plumbing and Fire Protection (including equipment fire sprinkler system) in Areas 1 and 2 shall be completed prior to the start-up of processing equipment.
- Work in Area 3 shall be sequenced to allow sufficient access and use of the building space for Contractors on-site as approved by the Engineer and the Contractors for Contract Nos. 2-6 shall achieve Substantial Completion prior to the required date for the Operator to finalize permits and have partial occupancy and use of Area 3. Additionally, any Work by Contract Nos. 1 and 4-6 related to all other Areas 1, 2, 4-6 and the site work/interior shall progress and be completed to support and not delay the overall Project Schedule.
- Contract Nos. 2-6 Work in Areas 4 - 6 shall be sequenced by each applicable Contractor to make most use and access of working space where the building erection is complete, so the work of Contract No. 1 can proceed efficiently. All work to be coordinated between the Contractors.



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NY COA # 0017967

Rockland Green
ROCKLAND GREEN
MATERIALS RECOVERY FACILITY,
FACILITY IMPROVEMENTS
420 TORNE VALLEY ROAD, HILLBURN, NY 10931

TITLE SHEET_PLUMBING



REV	DESCRIPTION	DATE	BY	DATE	PROJ. No:	SCALE:
1	ISSUED FOR RFP	07/29/21			499-010	AS SHOWN
2	REVISED FOR RFP ADDENDUM 4	08/27/21				
3	ISSUED FOR RFP	07/29/21				
4	REVISED FOR RFP ADDENDUM 4	08/27/21				
5	ISSUED FOR RFP	07/29/21				
6	REVISED FOR RFP ADDENDUM 4	08/27/21				
7	ISSUED FOR RFP	07/29/21				
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99	ISSUED FOR RFP	07/29/21				
100	REVISED FOR RFP ADDENDUM 4	08/27/21				

10. ALL NEW EQUIPMENT INSTALLED ON THIS PROJECT CONTAINING BRASS AND/OR IN CONTACT WITH POTABLE WATER SUPPLY SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT OF 2011. NO LEAD ALLOWED.

PLAN/DETAIL #/DRAWING NUMBER

CLEAN UP

WCO WALL CLEANOUT

NOTES:

1. PROVIDE WATER SHOCK ABSORBER PER MANUFACTURER'S RECOMMENDATIONS INSTRUCTIONS.
2. PROVIDE TRUEBRO MODEL #102 ADA WATER SUPPLY AND SANITARY SEWER COVERS, ANGLE STOP VALVES, P-TRAP, STRAINER, ASSE 1016 THERMAL MIXING VALVE SET TO 110°F (ADJUSTABLE).
3. PROVIDE ANGLE STOP VALVES, P-TRAP, GD-1 ASSE 1016 THERMAL MIXING VALVE SET TO 110°F (ADJUSTABLE).
4. PROVIDE STATE APPROVED TRAP SEAL DEVICE.
5. PROVIDE WALL SWITCH, FACTORY DISCONNECT SWITCH, 120V/1ø, 6.3 AMPS.
6. PROVIDE FACTORY DISCONNECT SWITCH 115V/1ø, FLA = 5 AND INLINE FILTER.
7. PROVIDE SEDIMENT BASKET.
8. PROVIDE SLOAN MODEL #SOLIS 8113-1.6/1.1-OR , ANTIMICROBIAL SEAT MODEL K-4731-CA, FLOOR MOUNTED CARRIER.
9. PROVIDESLOAN MODEL #SOLIS-8186, FLOOR MOUNTED CARRIER.
10. PROVIDE FAUCETMODEL #K-13461
11. PROVIDE KOHLER MODEL # K-560 FAUCET.
12. PROVIDE 3-0" STAINLESS STEEL WALL PROTECTORS ON WALL(S), KOHLER FAUCET MODEL #K-837T60-4A.
13. PROVIDE THERMAL MIXING VALVE SET TO (75-100°F) ADJUSTABLE, UNIT TO FAIL COLD.

* - Z" SANITARY SEWER AND VENT BELOW GRADE.

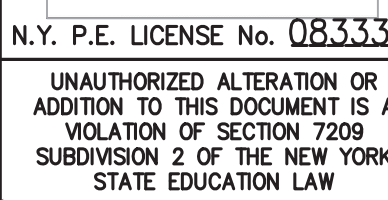
NOTES: 1. PROVIDE 6" HOUSEKEEPING/INERTIA PAD. THERMAL EXPANSION TANK AMTROL MODEL #ST-5-C
2. PROVIDE FACTORY DISCONNECT SWITCH.

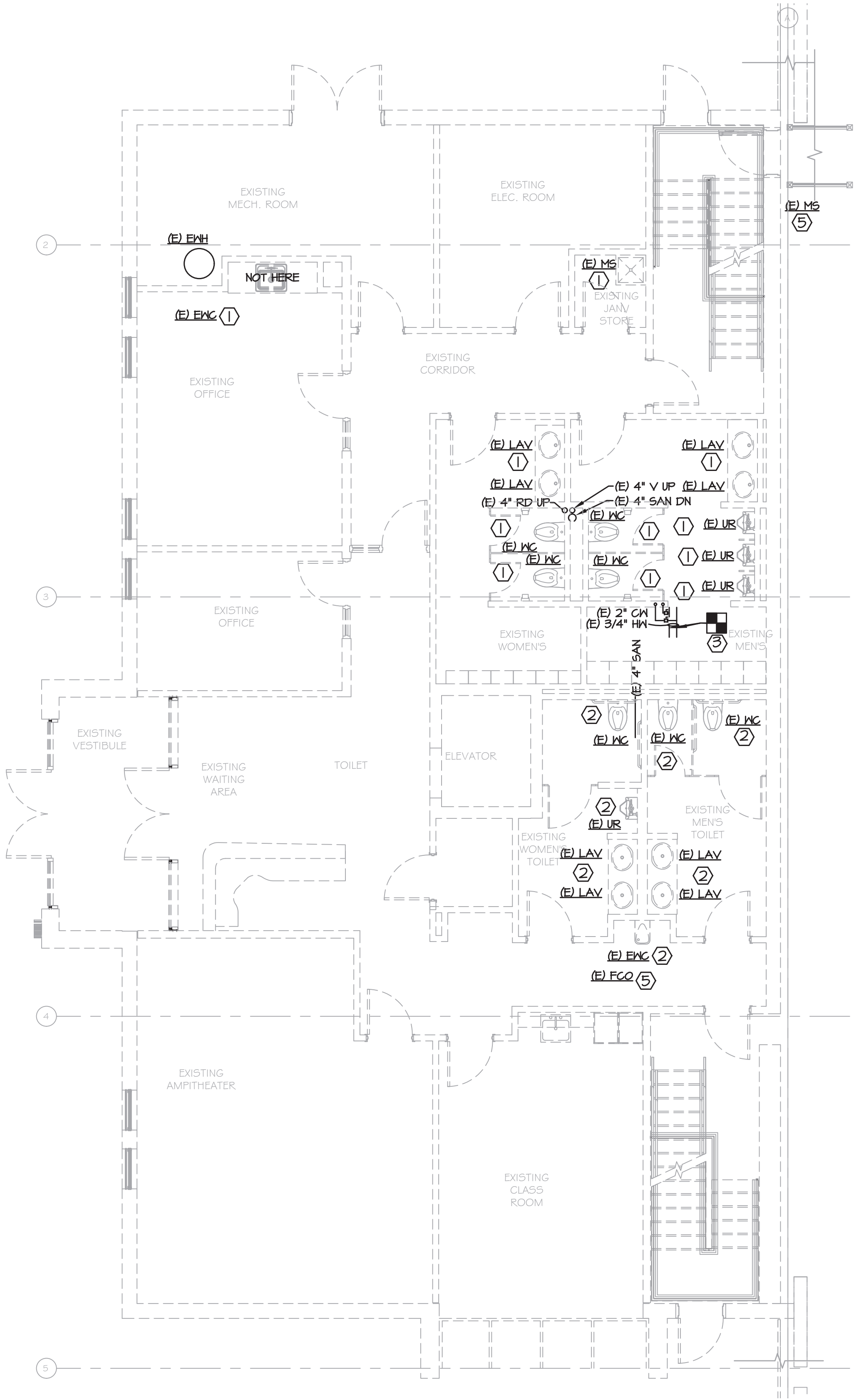
NOTES: 1. PROVIDE ABOVE GROUND VFD PRESSURE SYSTEM, FACTORY DISCONNECT SWITCH, 1/4" INLET OUTLET HOSES QUICKCONNECT HOSES. PUMP FROM PI
LOCATED NEAR B5. PUMP TO OWNER PROVIDE 150 GALLON STORAGE TANK. PROVIDE CHECK VALVE, UNIONS, STRAINERS AND SHUT-OFF VALVES.

[illegible]

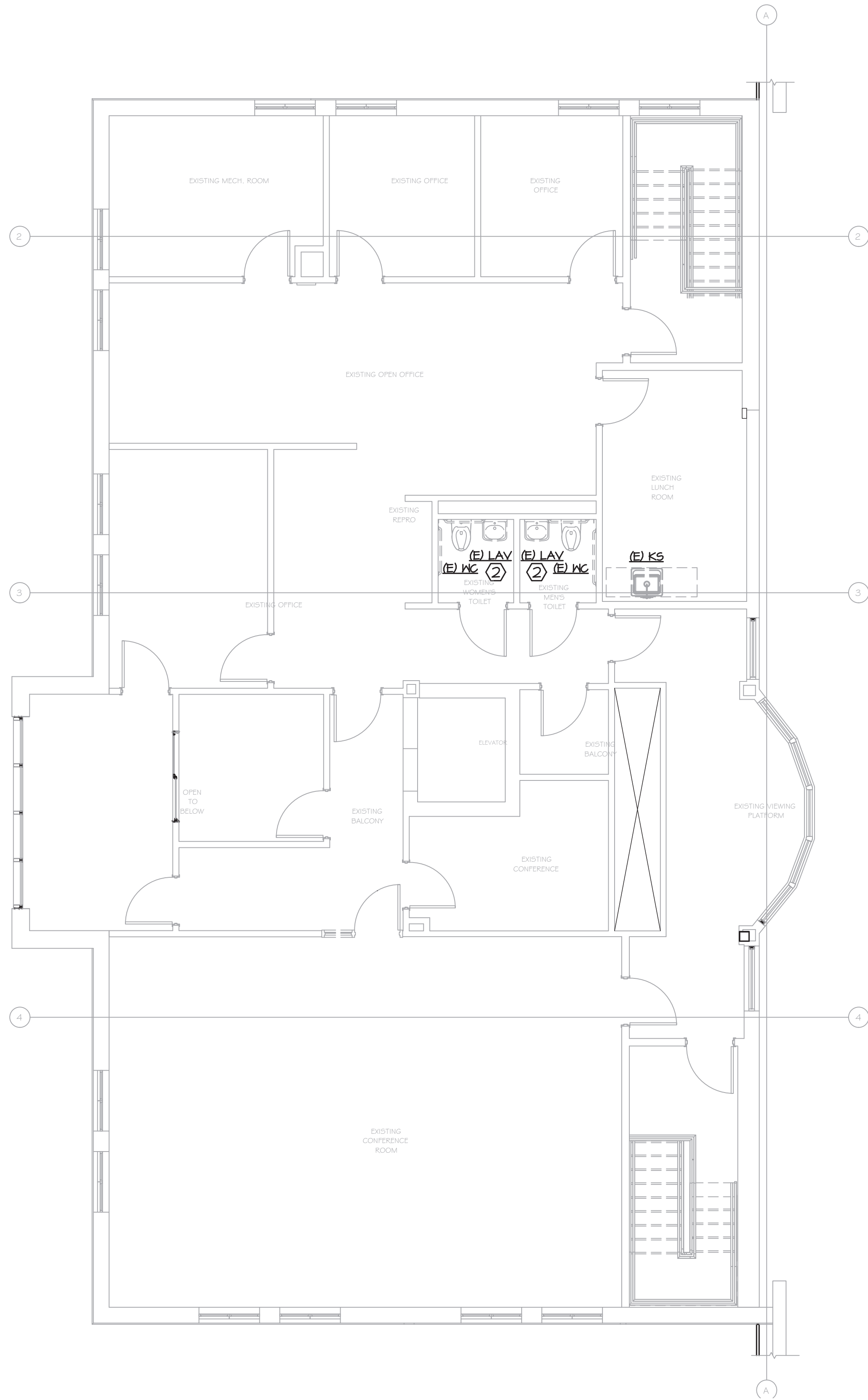
NOTE : THIS IS A GENERAL PLUMBING LEGEND.
ALL SYMBOLS MAY NOT APPEAR ON
THE PLANS. SEE PLANS FOR ACTUAL
SYMBOLS USED.

NOT FOR CONSTRUCTION

[illegible]



1 PARTIAL FIRST FLOOR PLAN - DEMOLITION
PD-101-BF SCALE: 3/16"=1'-0"



2 PARTIAL SECOND FLOOR PLAN - DEMOLITION
PD-101-BF SCALE: 3/16"=1'-0"

- KEY NOTES:
1. REMOVE FIXTURES AND PREP FOR NEW FIXTURE, REPAIR/REPLACE ANY BROKEN OR WORN CONNECTIONS AS NEEDED.
 2. REMOVE FIXTURE AND CONNECTIONS BACK TO MAINS, REPAIR SURFACES SEE ARCH FOR MATERIALS/FINISHES IN AREA.
 3. REMOVE HOT AND COLD PIPING BACK TO THIS POINT.
 4. REMOVE EXISTING MOP SINK. REMOVE H&CW BACK TO MAINS, REMOVE SANITARY AND VENT BACK TO MAINS.
 5. RELOCATE EXISTING FLOOR DRAIN INTO WALL, SEE NEW PLUMBING FOR CLARIFICATION.

PROJECT



NORTH



KEY PLAN

AREA OF CONSTRUCTION



Sterling Environmental Engineering, P.C.

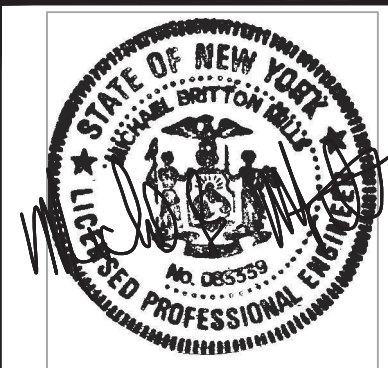


martinrogers
ENGINEERING CONSULTANTS
185 N. Pennsylvania Ave., Wilkes-Barre, PA 18701
1-800-855-1000 | 1-800-855-0888 | www.mrope.com





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INTERIORS



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						RRT Engineering, LLC An Affiliate of Enviro-Services & Constructors, Inc. NY COA # 0017967	
						ROCKLAND GREEN MATERIALS RECOVERY FACILITY, FACILITY IMPROVEMENTS 420 TORNE VALLEY ROAD, HILLBURN, NY 10931	
B	REVISED FOR RFP ADDENDUM 4	8/27/21		RVS/RGL			
A	ISSUED FOR RFP	7/30/21		RVS/RGL		PARTIAL FIRST FLOOR PLANS AREA 3	
REV	DESCRIPTION	DATE		BY CHK			
<p>PROPRIETARY DATA</p> <p>THIS DOCUMENT IS THE PROPERTY OF RRT ENGINEERING, LLC, AND CONTAINS CONFIDENTIAL INFORMATION. ANY REPRODUCTION OR UNAUTHORIZED USE WITHOUT WRITTEN CONSENT OF RRT ENGINEERING, LLC, WILL BE SUBJECT TO PROSECUTION.</p> <p>RRT Engineering, LLC</p> <p>1 Huntington Quadrangle, 3501 Melville, N.Y. 11747</p> <p>ph: 631-756-1060 fax: 631-756-1064</p>							
DRAWN		BY	DATE	PROJ. No: 499-010		SCALE: NTS	
CHECKED		RVS	7/30/21	DWG. NO:		B	
DESIGNED		RGL	7/30/21	PD-101			
APPROVED		-	7/30/21	CAD FILE: N:\2021\21033\MEP\21033 PD-101.DWG			
APPROVED		-	-	SHEET SIZE: D-24x36		REV	



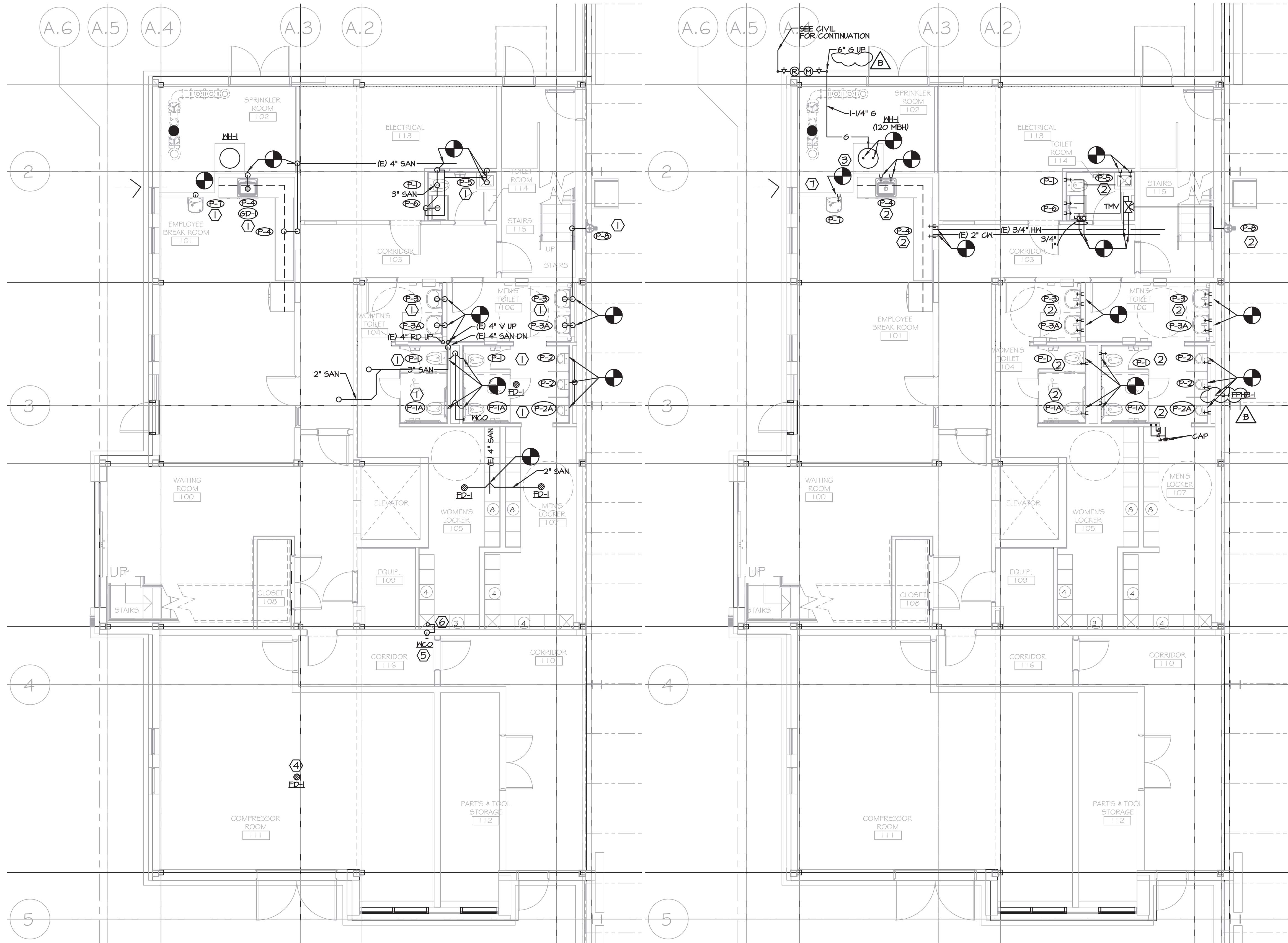
RRT Engineering, LLC
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NY COA # 0017967



ROCKLAND GREEN
MATERIALS RECOVERY FACILITY,
FACILITY IMPROVEMENTS
420 TORNE VALLEY ROAD, HILLBURN, NY 10931

PARTIAL FIRST FLOOR PLANS AREA 3	
DRAWN	BY
CHECKED	RGL
DESIGNED	RVS
APPROVED	-
APPROVED	-

NOT FOR CONSTRUCTION



- KEY NOTES:**
- CONNECT NEW FIXTURE INTO EXISTING SANITARY SEWER AND VENT PIPING.
 - CONNECT NEW FIXTURE INTO EXISTING HOT AND COLD WATER PIPING.
 - CONNECT EXISTING HOT AND COLD, NEW 1 1/2" GAS LINE INTO NEW WATER HEATER.
 - CONNECT INTO NEAREST 2" OR LARGER SANITARY SEWER.
 - RE-ROUTE FLOOR CLEANOUT TO WALL CLEANOUT, PATCH EXISTING IN FLOOR.
 - PROVIDE AIR GAP FOR 3/4" CONDENSATE DRAIN INTO NEW WALL CLEAN-OUT, PROVIDE ACCESS PANEL IN WALL.
 - REPLACE NON WORKING COLD WATER MAIN SHUT-OFF VALVE ONE FOR ONE.

GAS LOAD:

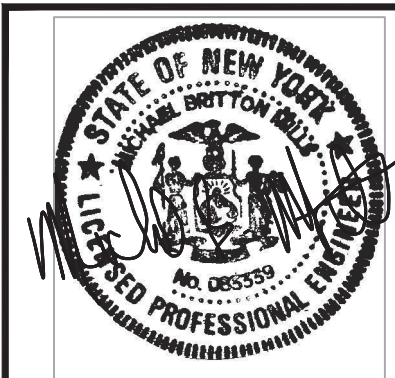
GAS APPLIANCE	GAS INPUT(MBH)
UH-1 (x2)	120
UH-1-4 (x4)	400 EACH
UH-5-6 (x2)	80 EACH
RTU-1	150 EACH
RTU-2	250
RTU-3	50
TOTAL:	1420 MBH OR CFH

LONGEST GAS APPLIANCE FROM METER:
UH-1 @ 450 FT FROM METER.
SCHEDULE 40 LESS THAN 2.0 PSIG - 0.3" WC PRESSURE DROP, SG = 0.60.

1 PARTIAL FIRST FLOOR PLAN - SANITARY
P-101-BP SCALE: 3/16"=1'-0"

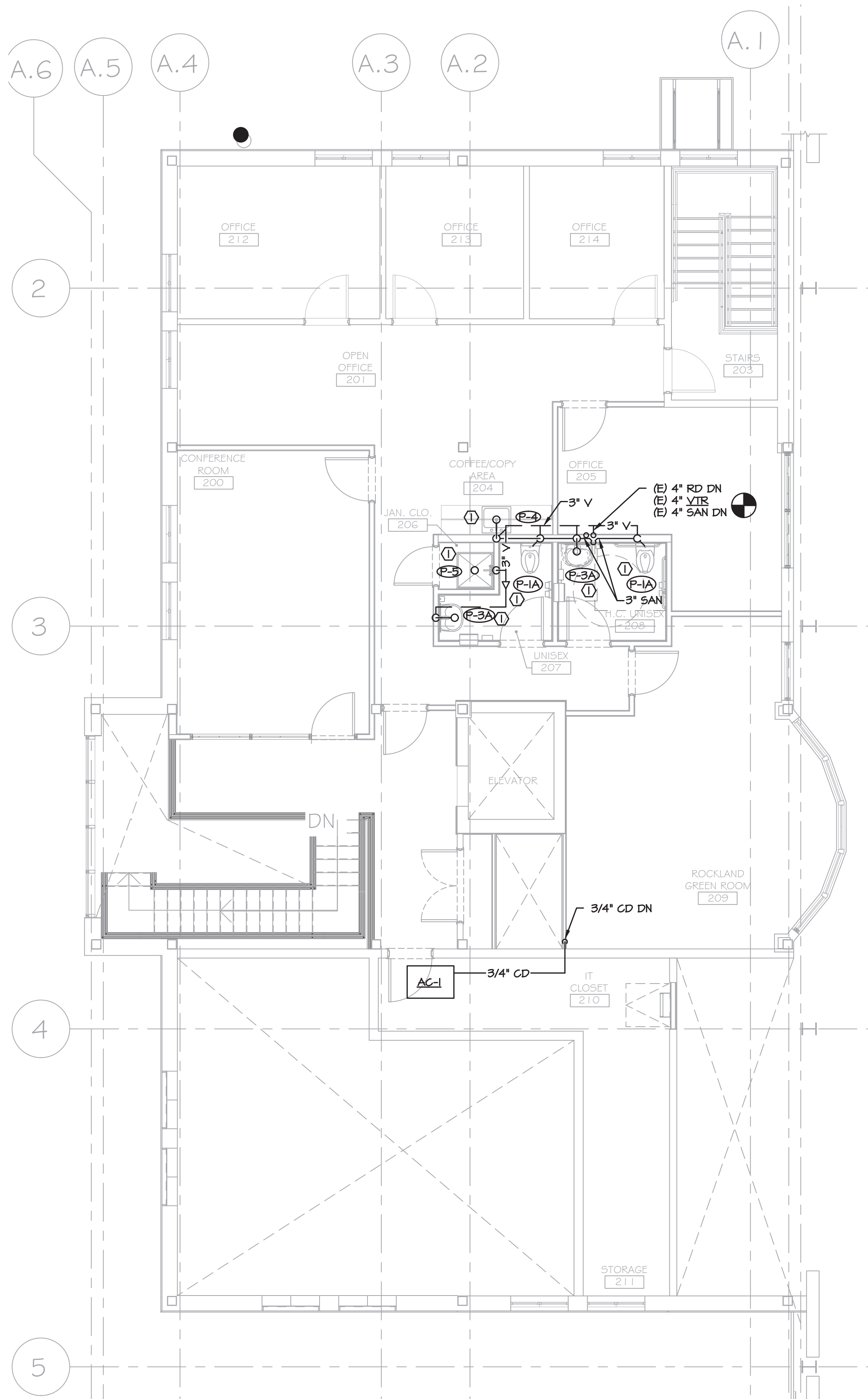
2 PARTIAL FIRST FLOOR PLAN - WATER AND GAS PIPING
P-101-BP SCALE: 3/16"=1'-0"

NOT FOR CONSTRUCTION

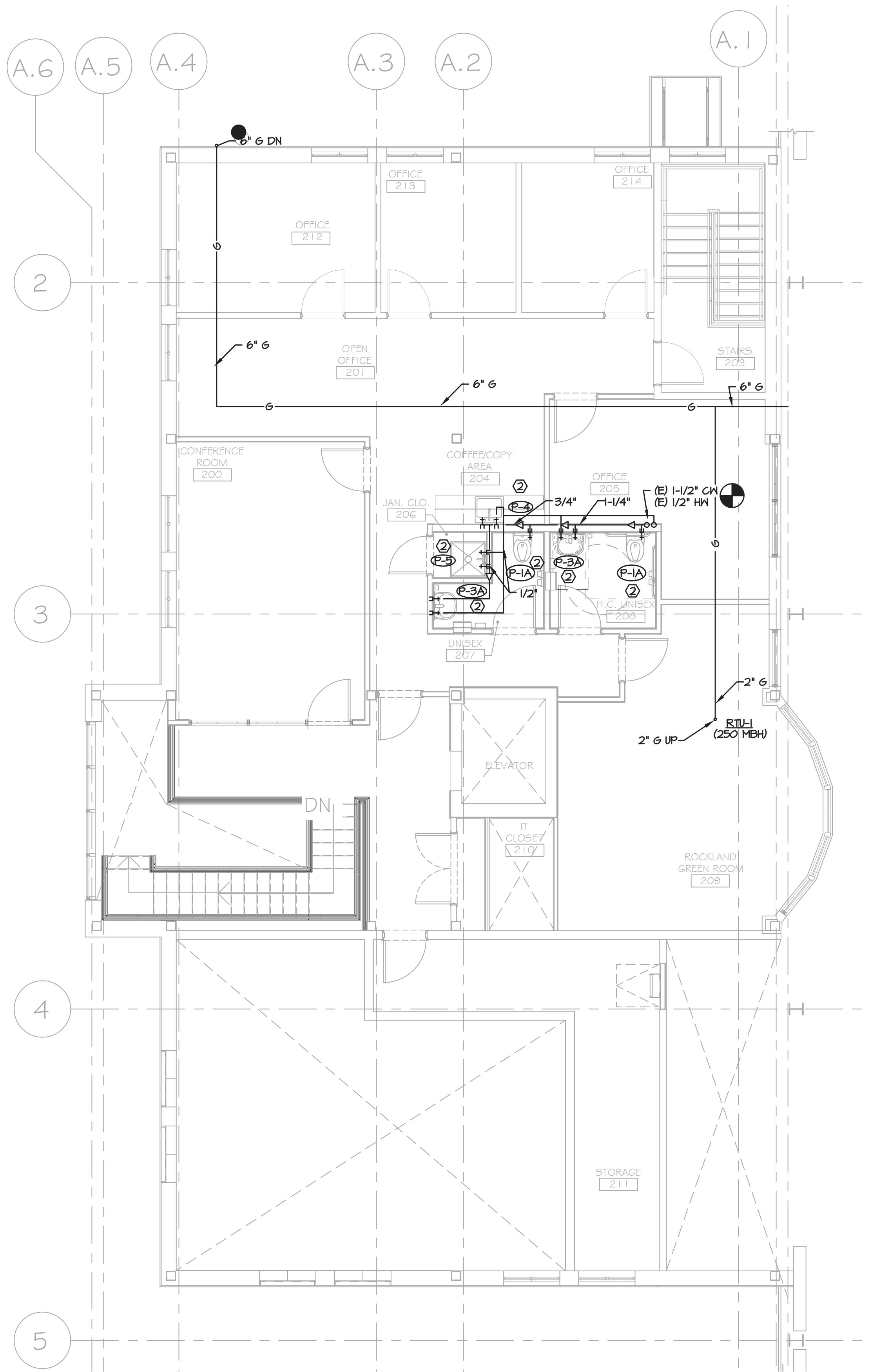


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PROJECT		NORTH		KEY PLAN	
STERLING		STERLING		STERLING	
Sterling Environmental Engineering, P.C.		martinrogers		ARCHITECTURE	
185 N. Pennsylvania Ave., Wilkes-Barre, PA 18701		ENGINEERING CONSULTANTS		PLANNING	
23 WALLACE AVE. • MONTICELLO • NY 12548		ANDERSON DESIGN GROUP		INTERIORS	
03 MAY 2021		RRT Engineering, LLC		An Affiliate of Enviro-Services & Constructors, Inc.	
NY COA # 0017967		ROCKLAND GREEN		MATERIALS RECOVERY FACILITY, FACILITY IMPROVEMENTS	
420 TORNE VALLEY ROAD, HILLBURN, NY 10931		PARTIAL FIRST FLOOR PLANS		AREA 3	
REVISED FOR RFP ADDENDUM 4		ISSUED FOR RFP		DATE BY CHK	
8/27/21		7/30/21		BY DATE	
RVS/RGL		RVS/RGL		PROJ. No: 499-010	
7/30/21		7/30/21		SCALE: NTS	
RVS/RGL		RVS/RGL		DWG. NO: P-101	
DATE BY CHK		DATE BY CHK		CAD FILE: N:\2021\1033\MEP\21033 P-101.DWG	
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RRT Engineering, LLC		CHECKED RGL		REV	
1 Huntington Quadrangle, 3501		DESIGNED RVS		REV	
11747		APPROVED			
ph: 631-756-1060		APPROVED			
fax: 631-756-1064					



1 PARTIAL SECOND FLOOR PLAN - SANITARY
P-102-BF SCALE: 3/16"=1'-0"

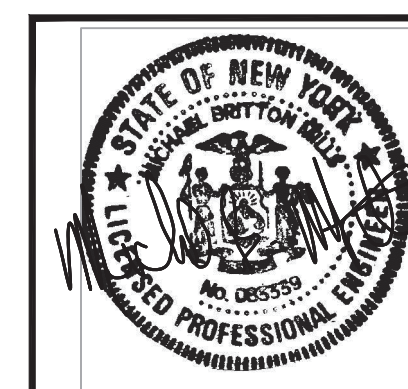


2 PARTIAL SECOND FLOOR PLAN - WATER AND GAS PIPING
P-102-BF SCALE: 3/16"=1'-0"

KEY NOTES:

- CONNECT NEW FIXTURE INTO EXISTING SANITARY SEWER AND VENT PIPING.
- CONNECT NEW FIXTURE INTO EXISTING HOT AND COLD WATER PIPING.

PROJECT NORTH		 KEY PLAN
 Sterling Sterling Environmental Engineering, P.C.		
 martinrogers ENGINEERING CONSULTANTS 185 N. Pennsylvania Ave., Wilkes-Barre, PA 18701 (717) 855-1000 (717) 855-0888 www.mrtg.com		
 ANDERSON DESIGN GROUP	ARCHITECTURE PLANNING INTERIORS	

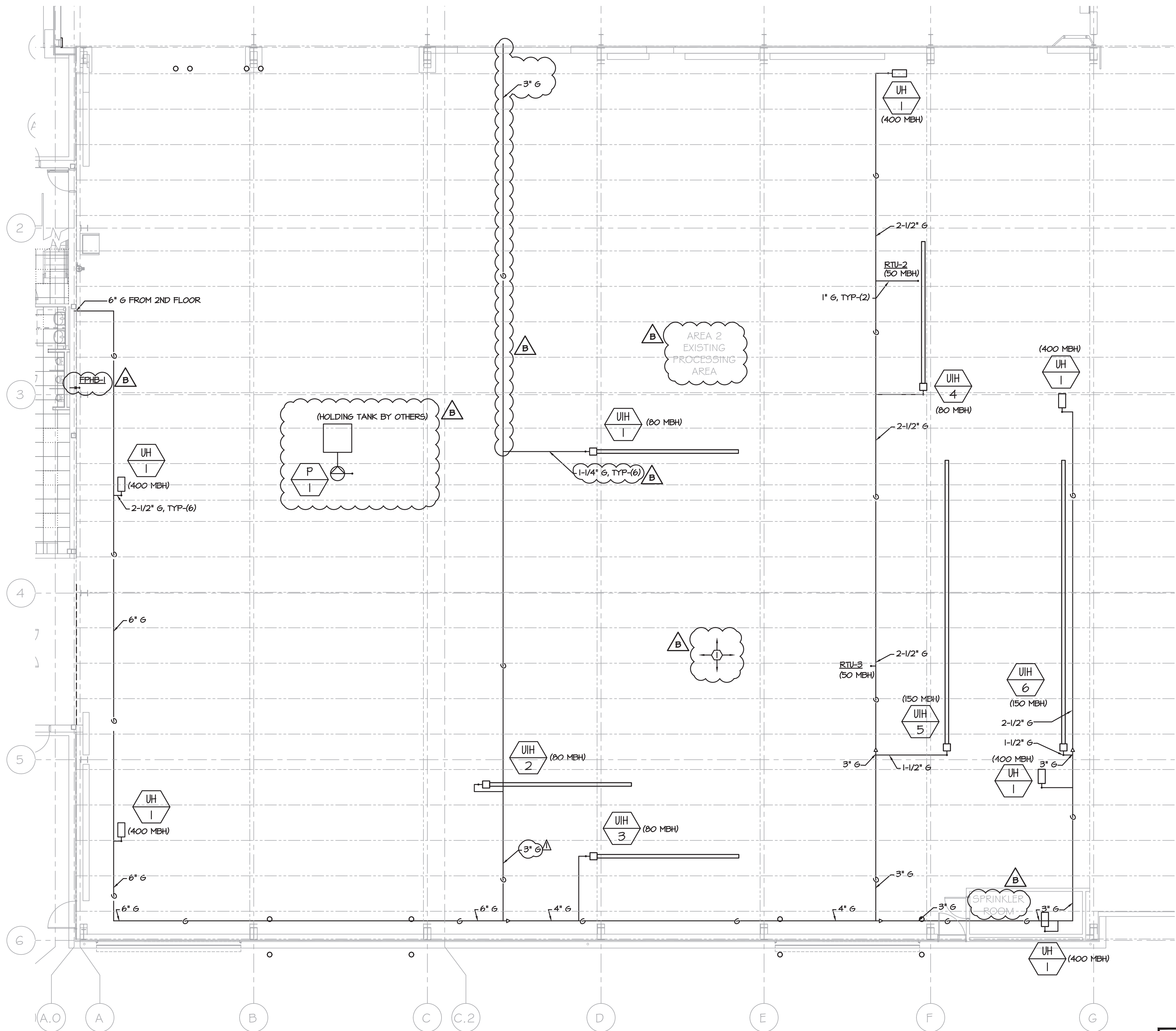


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 RRT Engineering, LLC An Affiliate of Enviro-Services & Constructors, Inc. NY COA # 0017967		 ROCKLAND GREEN MATERIALS RECOVERY FACILITY, FACILITY IMPROVEMENTS 420 TORNE VALLEY ROAD, HILLBURN, NY 10931	
REVISIONS		PARTIAL SECOND FLOOR PLANS AREA 3	
REV	DESCRIPTION	DATE	BY
B	REVISED FOR RFP ADDENDUM 4	8/27/21	RVS/RGL
A	ISSUED FOR RFP	7/30/21	RVS/RGL
PROJECTIONS		DATE	BY
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RRT Engineering, LLC 1 Huntington Quadrangle, 3501 Melville, N.Y. 11747 ph: 631-756-1060 fax: 631-756-1064		DATE	BY
DRAWN NO.		DATE	BY
CHECKED DESIGNED APPROVED		DATE	BY
APPROVED		DATE	BY
PROJ. No: 499-010 SCALE: SEE PLANS		DWG. No: P-102 CAD FILE: N:2021121033MEP21033 P-102.DWG SHEET SIZE: D-24x36	
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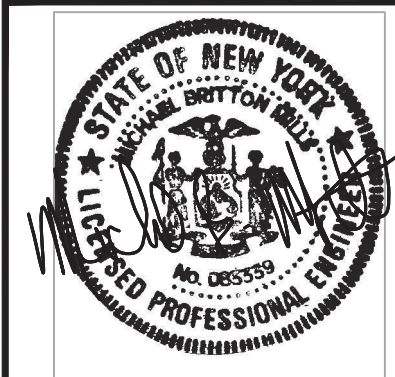
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KEY NOTES:
1. MOUNT GAS LINES HIGH AS POSSIBLE.



1 PARTIAL FIRST FLOOR PLAN - PLUMBING PLAN
P-103-BF SCALE: 3/32"=1'-0"

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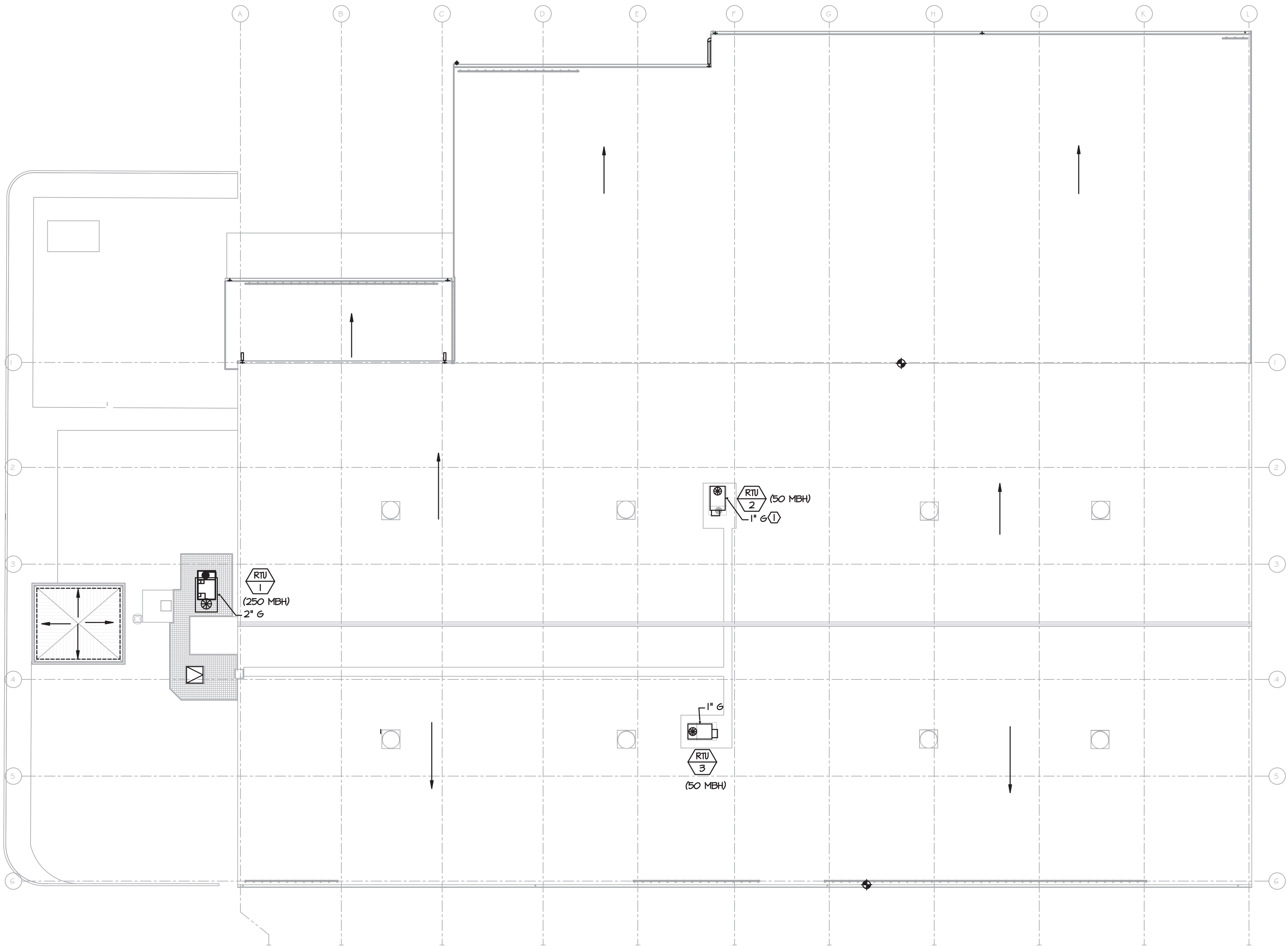
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RRT Engineering, LLC
1 Huntington Quadrangle, 3581
Melville, N.Y. 11747
ph: 631-756-1060
fax: 631-756-1064

	RRT Engineering, LLC An Affiliate of Enviro-Services & Constructors, Inc. NY COA # 0017967			
	ROCKLAND GREEN MATERIALS RECOVERY FACILITY, FACILITY IMPROVEMENTS 420 TORNE VALLEY ROAD, HILLBURN, NY 10931			
PARTIAL FIRST FLOOR PLAN AREA 1 AND 2				
DRAWN NO:	BY RGL	DATE 7/30/21	PROJ. No: 499-010	SCALE: SEE PLANS
CHECKED DESIGNED	RGL RVS	7/30/21 7/30/21	DWG. NO: P-103	B
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SHEET SIZE: D-24x36				

- KEY NOTES:
- I. MAKE LIQUID TIGHT NATURAL GAS PENETRATIONS THROUGH EXISTING ROOFS, TYPICAL.



1 ROOF PLAN - PLUMBING
P-104-BP SCALE: 1/16"=1'-0"

PROJECT



NORTH



KEY PLAN

AREA OF CONSTRUCTION



Sterling Environmental Engineering, P.C.

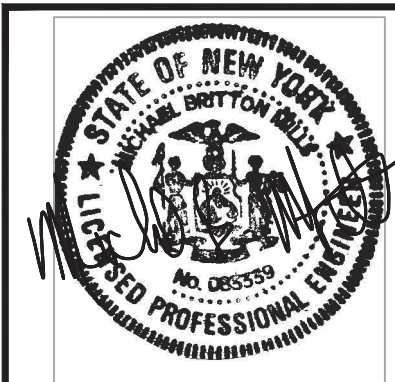


MARTIN ROGERS
ENGINEERING CONSULTANTS
185 N. Pennsylvania Ave., Wilkes-Barre, PA 18701
1-800-855-1000 | 717-855-0886 | www.mrtg.com



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RRT Engineering, LLC
1 Huntington Quadrangle, 3501
Melville, N.Y. 11747
ph: 631-756-1060
fax: 631-756-1064



RRT Engineering, LLC
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NY COA # 0017967



ROCKLAND GREEN
MATERIALS RECOVERY FACILITY,
FACILITY IMPROVEMENTS
420 TORNE VALLEY ROAD, HILLBURN, NY 10931

ROOF PLAN - PLUMBING

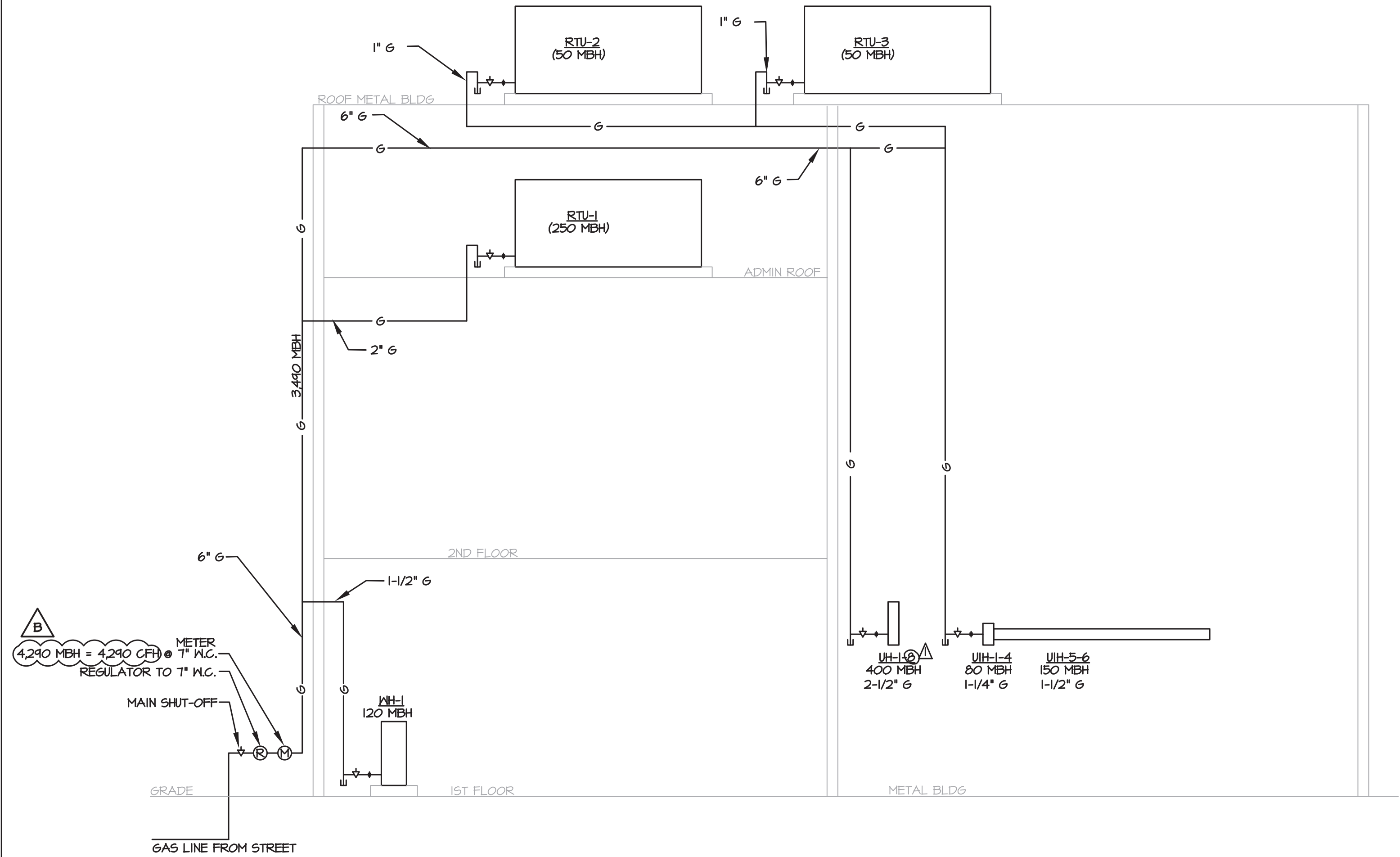
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CHECKED	RGL	7/30/21		
DESIGNED	RVS	7/30/21		
APPROVED	-			
APPROVED	-			

DWG. No: P-105
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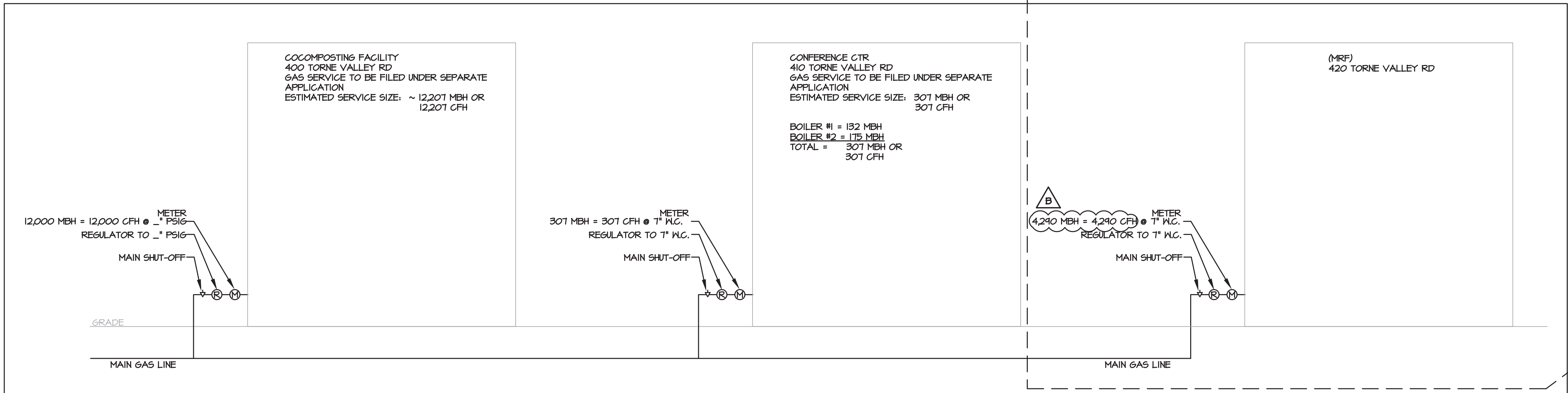
B

REV

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2 MATERIAL RECOVERY FACILITY (MRF) GAS LOAD AND RISER DIAGRAM
SCALE: NTS



1 ROCKLAND GREEN FACILITY GAS LOAD
SCALE: NTS

PROJECT

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KEY PLAN

AREA OF CONSTRUCTION

Sterling Environmental Engineering, P.C.

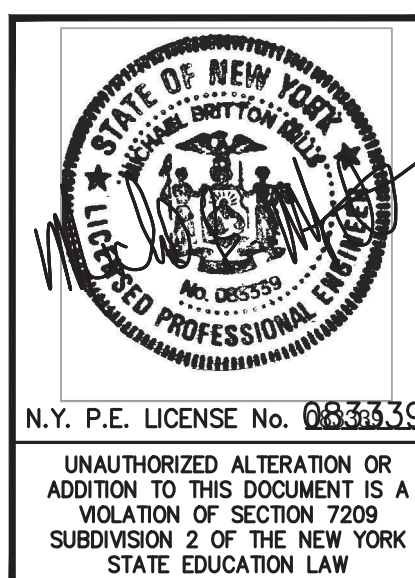
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B	GAS APPLICATION		05/21/21	ROCKLAND GREEN			
	REVISED FOR RFP ADDENDUM 4		RVS/RGL 8/27/21	 MATERIALS RECOVERY FACILITY, FACILITY IMPROVEMENTS			
			RVS/RGL	420 TORNE VALLEY ROAD, HILLBURN, NY 10931			
A	ISSUED FOR RFP		7/30/21	GAS LOADS AND RISER DIAGRAM			
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DESIGNED		RGL	7/30/21	CAD FILE: N:\2021\1033\MEP\21033 P-301.DWG			
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