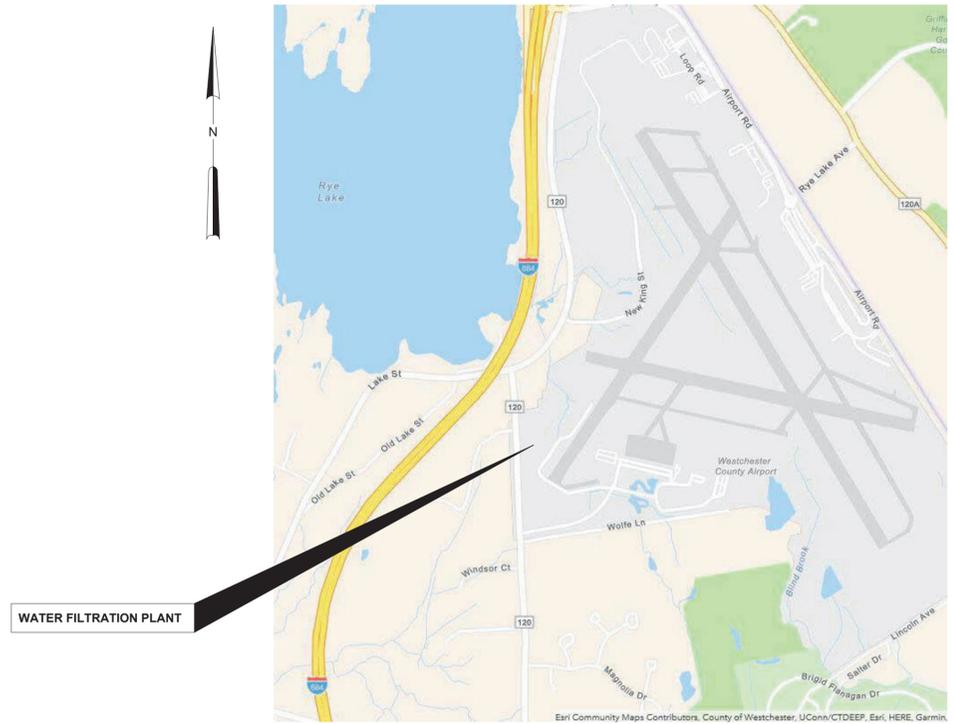


WESTCHESTER JOINT WATER WORKS MAMARONECK, NEW YORK



A1364-A: RYE LAKE WATER FILTRATION PLANT 30 MGD HARRISON, NY BID SET FEBRUARY 2025



LOCATION PLAN
NOT TO SCALE



HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WARNING
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NO.	DWG	TITLE	INCLUDED
GENERAL			
1	G-001	COVER	X
2	G-002	DRAWING INDEX - SHEET 1	X
3	G-003	DRAWING INDEX - SHEET 2	X
4	G-004	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
5	G-005	GENERAL AREA DESIGNATION TABLES	X
6	G-010	HYDRAULIC PROFILE	X
7	G-011	PROCESS FLOW SCHEMATIC	X
8	G-100	GENERAL ARRANGEMENT PLAN EL 384.00	X
9	G-101	GENERAL ARRANGEMENT PLAN EL 407.00	X
10	G-102	GENERAL ARRANGEMENT PLAN EL 421.00	X
11	G-103	GENERAL ARRANGEMENT PLAN ROOF	X
DEMOLITION			
12	D-500	EXISTING RYE LAKE CHEMICAL BUILDING DEMOLITION PLAN BELOW EL 358.50'	X
13	D-501	EXISTING RYE LAKE CHEMICAL BUILDING DEMOLITION PLAN EL 358.50	X
CIVIL			
14	C-001	GENERAL NOTES, LEGEND AND ABBREVIATIONS	X
15	C-101	OVERALL SITE PLAN	X
16	C-102	EXISTING CONDITIONS AND DEMOLITION PLAN -AREA 1	X
17	C-103	EXISTING CONDITIONS AND DEMOLITION PLAN -AREA 2	X
18	C-111	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE I	X
19	C-112	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE II	X
20	C-113	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE III	X
21	C-114	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE IV	X
22	C-115	EROSION AND SEDIMENT CONTROL PHASING PLAN - PHASE V	X
23	C-121	GRADING AND DRAINAGE PLAN - AREA 1	X
24	C-122	GRADING AND DRAINAGE PLAN - AREA 2	X
25	C-131	YARD PIPING PLAN - AREA 1	X
26	C-132	YARD PIPING PLAN - AREA 2	X
27	C-141	FINAL SITE PLAN - AREA 1	X
28	C-142	FINAL SITE PLAN - AREA 2	X
29	C-151	STAKING PLAN - AREA 1	X
30	C-152	STAKING PLAN - AREA 2	X
31	C-153	STAKING TABLES	X
32	C-201	PLANT ACCESS DRIVEWAY PLAN AND PROFILE	X
33	C-202	PLANT ACCESS ROAD PLAN AND PROFILE - STA 10+00 TO STA 14+50	X
34	C-203	PLANT ACCESS ROAD PLAN AND PROFILE - STA 14+50 TO STA 20+20	X
35	C-204	VEGETATED ACCESS ROAD PLAN AND PROFILE - SHEET 1 OF 2	X
36	C-205	VEGETATED ACCESS ROAD PLAN AND PROFILE - SHEET 2 OF 2	X
37	C-206	ROADWAY DETAILS	X
38	C-211	STORMWATER MANAGEMENT PLAN	X
39	C-212	STORMWATER MANAGEMENT CROSS SECTIONS	X
40	C-213	STORMWATER DRAINAGE PROFILES -SHEET 1 OF 3	X
41	C-214	STORMWATER DRAINAGE PROFILES -SHEET 2 OF 3	X
42	C-215	STORMWATER DRAINAGE PROFILES -SHEET 3 OF 3	X
43	C-216	STORMWATER DETAILS - SHEET 1 OF 6	X
44	C-217	STORMWATER DETAILS - SHEET 2 OF 6	X
45	C-218	STORMWATER DETAILS - SHEET 3 OF 6	X
46	C-219	STORMWATER DETAILS - SHEET 4 OF 6	X
47	C-220	STORMWATER DETAILS - SHEET 5 OF 6	X
48	C-221	STORMWATER DETAILS - SHEET 6 OF 6	X
49	C-231	SANITARY DRAIN PLAN AND PROFILE	X
50	C-232	SANITARY FM - STA 0+00 TO STA 5+00	X
51	C-233	SANITARY FM - STA 5+00 TO STA 9+29	X
52	C-234	SANITARY AND STORM DRAIN DETAILS	X
53	C-241	RAW WATER TRANSMISSION MAIN PLAN AND PROFILE	X
54	C-242	FINISHED WATER TRANSMISSION MAIN PLAN AND PROFILE - SHEET 1 OF 2	X
55	C-243	FINISHED WATER TRANSMISSION MAIN PLAN AND PROFILE - SHEET 2 OF 2	X

56	C-244	WATER MAIN EXTENSION PROFILE	X
57	C-245	PW AND FP PROFILES	X
58	C-246	WWW AND FUD PROFILE	X
59	C-247	OVERFLOW PROFILE - SHEET 1 OF 2	X
60	C-248	OVERFLOW PROFILE - SHEET 2 OF 2	X
61	C-249	WWW PROFILE	X
62	C-250	GALLERY DRAIN PROFILE	X
63	C-251	YARD PIPING DETAILS - SHEET 1 OF 2	X
64	C-252	YARD PIPING DETAILS - SHEET 2 OF 2	X
65	C-301	EROSION AND SEDIMENT CONTROL NOTES	X
66	C-302	EROSION AND SEDIMENT CONTROL DETAILS	X
67	C-303	EROSION AND SEDIMENT CONTROL DETAILS	X
68	C-304	SITE DETAILS	X
69	C-305	TRUCK DELIVERY CONTAINMENT DETAIL	X
70	C-306	MAINTENANCE OF TRAFFIC DETAIL	X
71	L-101	PLAN - SHEET 1	X
72	L-102	PLAN - SHEET 2	X
73	L-301	SCHEDULE	X
74	L-302	DETAILS	X
ARCHITECTURAL			
75	A-001	STANDARD NOTES, SYMBOLS AND ABBREVIATIONS	X
76	A-002	CODE COMPLIANCE SUMMARY 1 OF 3	X
77	A-003	CODE COMPLIANCE SUMMARY 2 OF 3	X
78	A-004	CODE COMPLIANCE SUMMARY 3 OF 3	X
79	A-005	NOTES -SHEET 1 of 2	X
80	A-006	NOTES -SHEET 2 of 2	X
81	A-101	BASEMENT PLAN EL 383.00	X
82	A-102	FIRST FLOOR PLAN EL 407.00	X
83	A-103	SECOND FLOOR PLAN EL 421.00	X
84	A-104	ROOF PLAN	X
85	A-201	EXTERIOR ELEVATIONS -SHEET 1 OF 2	X
86	A-202	EXTERIOR ELEVATIONS -SHEET 2 OF 2	X
87	A-203	BUILDING SECTIONS -SHEET 1 OF 4	X
88	A-204	BUILDING SECTIONS -SHEET 2 OF 4	X
89	A-205	BUILDING SECTIONS -SHEET 3 OF 4	X
90	A-206	BUILDING SECTIONS -SHEET 4 OF 4	X
91	A-207	WALL SECTION & DETAILS -SHEET 1 OF 3	X
92	A-208	WALL SECTION & DETAILS -SHEET 2 OF 3	X
93	A-209	WALL SECTION & DETAILS -SHEET 3 OF 3	X
94	A-301	FIRST FLOOR -ENLARGED PLAN AND RCP	X
95	A-302	FIRST FLOOR -INTERIOR ELEVATIONS	X
96	A-303	SECOND FLOOR -ENLARGED PLAN AND RCP	X
97	A-304	SECOND FLOOR -INTERIOR ELEVATIONS	X
98	A-305	PROCESS ANALYSIS AND CONTROL ROOM - ENLARGED PLANS AND RCP	X
99	A-306	PROCESS ANALYSIS AND CONTROL ROOM - INTERIOR ELEVATIONS	X
100	A-307	ELEVATOR PLANS, SECTION AND DETAILS	X
101	A-308	STAIR PLANS, SECTIONS AND DETAILS - SHEET 1 OF 2	X
102	A-309	STAIR PLANS, SECTIONS AND DETAILS - SHEET 2 OF 2	X
103	A-401	STAIR AND RAILING DETAILS	X
104	A-402	PLAN DETAILS	X
105	A-403	ROOF DETAILS -SHEET 1 OF 2	X
106	A-404	ROOF DETAILS -SHEET 2 OF 2	X
107	A-501	SITE ENTRANCE PLAN AND DETAILS	X
108	A-601	PARTITION TYPES AND DETAILS	X
109	A-602	WINDOW SCHEDULE AND DETAILS	X
110	A-603	DOOR SCHEDULE AND DETAILS	X
111	A-604	FINISH, IDENTIFYING DEVICES AND LOUVER SCHEDULES AND DETAILS	X
112	A-605	IDENTIFYING DEVICES	X
113	A-606	FIRESTOPPING DETAILS	X
STRUCTURAL			
114	S-001	GENERAL NOTES	X
115	S-002	LOAD DIAGRAMS	X
116	S-100	SOIL TIEDOWN PLAN AREA 1, 2, AND 3	X

117	S-101	SOIL TIEDOWN PLAN AREA 4 AND 5	X
118	S-102	PLAN AT EL 374.08 - AREA 4 AND 5	X
119	S-103	PLAN AT EL 383.00 - AREA 1	X
120	S-104	PLAN AT EL 383.00 - AREA 2	X
121	S-105	PLAN AT EL 383.00 - AREA 3	X
122	S-106	PLAN AT EL 398.83 - AREA 1 AND 4	X
123	S-107	PLAN AT EL 398.83 - AREA 2 AND 5	X
124	S-108	PLAN AT EL 407.00 - AREA 1	X
125	S-109	PLAN AT EL 407.00 - AREA 2	X
126	S-110	PLAN AT EL 407.00 - AREA 3 AND FLOOR SLOPE PLAN AT EL 407.00 - AREA 1 AND 2	X
127	S-111	PLAN AT EL 407.00 - AREA 4	X
128	S-112	PLAN AT EL 407.00 - AREA 5	X
129	S-113	PLAN AT EL 407.00 - AREA 6 AND CLASS A6 CONCRETE LOCATION PLAN AT EL 407.00	X
130	S-114	PLAN AT EL 421.00 - AREA 1	X
131	S-115	PLAN AT EL 421.00 - AREA 2	X
132	S-116	PLAN AT EL 421.00 - AREA 3	X
133	S-117	PLAN AT EL 421.00 - AREA 4	X
134	S-118	PLAN AT EL 421.00 - AREA 5	X
135	S-119	PLAN AT EL 421.00 - AREA 6	X
136	S-120	FLAT ROOF FRAMING PLAN - AREA 1	X
137	S-121	FLAT ROOF FRAMING PLAN - AREA 2	X
138	S-122	FLAT ROOF FRAMING PLANS - AREA 4 AND TOP OF STEEL 439.67	X
139	S-123	SHED ROOF FRAMING PLAN - AREA 5	X
140	S-124	GABLE ROOF FRAMING PLAN - AREA 3	X
141	S-125	ROOF FRAMING PLANS - AREA 6	X
142	S-126	PLANS	X
143	S-200	SECTIONS - SHEET 1	X
144	S-201	SECTIONS - SHEET 2	X
145	S-202	SECTIONS - SHEET 3	X
146	S-203	SECTIONS - SHEET 4	X
147	S-204	SECTIONS - SHEET 5	X
148	S-205	SECTIONS - SHEET 6	X
149	S-206	SECTIONS - SHEET 7	X
150	S-207	SECTIONS - SHEET 8	X
151	S-208	SECTIONS - SHEET 9	X
152	S-209	SECTIONS - SHEET 10	X
153	S-210	SECTIONS - SHEET 11	X
154	S-211	SECTIONS - SHEET 12	X
155	S-212	SECTIONS - SHEET 13	X
156	S-213	SECTIONS - SHEET 14	X
157	S-214	SECTIONS - SHEET 15	X
158	S-215	SECTIONS - SHEET 16	X
159	S-216	SECTIONS - SHEET 17	X
160	S-217	SECTIONS - SHEET 18	X
161	S-218	FRAMING ELEVATIONS - SHEET 1	X
162	S-219	FRAMING ELEVATIONS - SHEET 2	X
163	S-220	FRAMING ELEVATIONS - SHEET 3	X
164	S-221	FRAMING ELEVATIONS - SHEET 4	X
165	S-222	FRAMING ELEVATIONS - SHEET 5	X
166	S-223	FRAMING ELEVATIONS - SHEET 6	X
167	S-224	FRAMING ELEVATIONS - SHEET 7	X
168	S-300	BEAM SCHEDULE AND DETAILS	X
169	S-301	DETAILS - SHEET 1	X
170	S-302	DETAILS - SHEET 2	X
171	S-303	DETAILS - SHEET 3	X
172	S-304	DETAILS - SHEET 4	X
173	S-305	DETAILS - SHEET 5	X
174	S-306	DETAILS - SHEET 6	X
175	S-307	DETAILS - SHEET 7	X
176	S-510	PLANS AND SECTIONS	X
177	S-600	STANDARD DETAILS SHEET 1	X
178	S-601	STANDARD DETAILS SHEET 2	X
179	S-602	STANDARD DETAILS SHEET 3	X
180	S-603	STANDARD DETAILS SHEET 4	X
181	S-604	STANDARD DETAILS SHEET 5	X
182	S-605	STANDARD DETAILS SHEET 6	X

183	S-606	STANDARD DETAILS SHEET 7	X
184	S-607	STANDARD DETAILS SHEET 8	X
MECHANICAL			
185	M-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
186	M-101	PARTIAL PLAN AT EL 383.00 - AREA 1	X
187	M-102	PARTIAL PLAN AT EL 383.00 - AREA 2 & 3	X
188	M-103	PARTIAL PLAN AT EL 398.00 - AREA 1	X
189	M-104	PARTIAL PLAN AT EL 398.00 - AREA 2 & 3	X
190	M-105	PARTIAL PLAN AT EL 407.00 - AREA 1	X
191	M-106	PARTIAL PLAN AT EL 407.00 - AREA 2	X
192	M-107	PARTIAL PLAN AT EL 407.00 - AREA 3	X
193	M-108	PARTIAL PLAN AT EL 407.00 - AREA 4	X
194	M-109	PARTIAL PLAN AT EL 407.00 - AREA 5	X
195	M-110	PARTIAL PLAN AT EL 421.00 - AREA 1	X
196	M-111	PARTIAL PLAN AT EL 421.00 - AREA 2	X
197	M-112	PARTIAL PLAN AT EL 421.00 - AREA 3	X
198	M-113	PARTIAL PLAN AT EL 421.00 - AREA 4	X
199	M-114	PARTIAL PLAN AT EL 421.00 - AREA 5	X
200	M-201	SECTIONS - SHEET 1	X
201	M-202	SECTIONS - SHEET 2	X
202	M-203	SECTIONS - SHEET 3	X
203	M-204	SECTIONS - SHEET 4	X
204	M-205	SECTIONS - SHEET 5	X
205	M-206	SECTIONS - SHEET 6	X
206	M-207	SECTIONS - SHEET 7	X
207	M-501	PLANS	X
208	M-502	SECTIONS	X
209	M-503	PLANS	X
210	M-504	SECTIONS	X
211	M-601	DETAILS - SHEET 1	X
212	M-602	DETAILS - SHEET 2	X
213	M-603	DETAILS - SHEET 3	X
214	M-604	DETAILS - SHEET 4	X
215	M-605	DETAILS - SHEET 5	X
216	M-606	DETAILS - SHEET 6	X
217	M-607	DETAILS - SHEET 7	X
218	M-608	DETAILS - SHEET 8	X
219	M-609	DETAILS - SHEET 9	X
220	M-610	DETAILS - SHEET 10	X
221	M-611	DETAILS - SHEET 11	X
INSTRUMENTATION			
222	I-001	GENERAL NOTES, SYMBOLS AND LEGEND	X
223	I-002	CONTROL SYSTEM BLOCK DIAGRAM	X
224	I-003	FACILITY SIGNAL COORDINATION - PROCESS AND INSTRUMENT DIAGRAM	X
225	I-004	MIXER AND FLOCCULATORS - PROCESS AND INSTRUMENT DIAGRAM	X
226	I-005	DISSOLVED AIR FLOTATION (DAF) - PROCESS AND INSTRUMENT DIAGRAM	X
227	I-006	FILTERS AND DAF RECYCLE PUMPS - PROCESS AND INSTRUMENT DIAGRAM	X
228	I-007	DAF RECYCLE SATURATION SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
229	I-008	AIR SCOUR BLOWER SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
230	I-009	FILTERED WATER AND BACKWASH SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
231	I-010	COMBINED WASTE WASHWATER SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
232	I-011	FLOATED SOLIDS TRANSFER SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
233	I-012	DEWATERING CENTRIFUGE - PROCESS AND INSTRUMENT DIAGRAM	X
234	I-013	RESIDUALS HANDLING SYSTEM - PROCESS AND INSTRUMENT DIAGRAM	X
235	I-014	CHEMICAL SYSTEMS - COAGULANT - PROCESS AND INSTRUMENT DIAGRAM	X
236	I-015	CHEMICAL SYSTEMS - SODIUM HYPOCHLORITE - PROCESS AND INSTRUMENT DIAGRAM	X
237	I-016	CHEMICAL SYSTEMS - SODIUM HYDROXIDE - PROCESS AND INSTRUMENT DIAGRAM	X
238	I-017	CHEMICAL SYSTEMS - CORROSION INHIBITOR - PROCESS AND INSTRUMENT DIAGRAM	X

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PROJECT ENGINEER:	R. FROST		
DESIGNED BY:	R. FROST		
DRAWN BY:	B. CASULL		
CHECKED BY:	E. FELDMAN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"		
REV	ISSUED FOR	DATE	BY

BID

239	I-018	CHEMICAL SYSTEMS - HYDROFLUOROSILICIC ACID - PROCESS AND INSTRUMENT DIAGRAM	X
240	I-019	UV AND FINAL CHEMICAL ADDITION - PROCESS AND INSTRUMENT DIAGRAM	X
241	I-020	RESIDUAL POLYMER SYSTEMS - PROCESS AND INSTRUMENT DIAGRAM	X
242	I-021	SUPPORT SYSTEMS - PROCESS AND INSTRUMENT DIAGRAM	X
243	I-022	INSTALLATION DETAILS SHEET 1	X
244	I-023	INSTALLATION DETAILS SHEET 2	X
245	I-024	INSTALLATION DETAILS SHEET 3	X
HVAC			
246	H-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
247	H-002	CONTROL DIAGRAMS - SHEET 1	X
248	H-003	CONTROL DIAGRAMS - SHEET 2	X
249	H-004	CONTROL DIAGRAMS - SHEET 3	X
250	H-005	CONTROL DIAGRAMS - SHEET 4	X
251	H-006	CONTROL DIAGRAMS - SHEET 5	X
252	H-007	CONTROL DIAGRAMS - SHEET 6	X
253	H-100	EL. 383.00 - OVERALL PLAN	X
254	H-101	EL. 407.00 - AREA 1	X
255	H-102	EL. 407.00 - AREA 2	X
256	H-103	EL. 407.00 - AREA 3	X
257	H-104	EL. 407.00 - AREA 6	X
258	H-105	EL. 421.00 & EL. 429.33 - OVERALL PLAN	X
259	H-106	EL. 421.00 & EL. 429.33 - AREA 1	X
260	H-107	EL. 421.00 & EL. 429.33 - AREA 2	X
261	H-108	EL. 421.00 - AREA 3	X
262	H-109	EL. 421.00 - AREA 4	X
263	H-110	EL. 421.00 - AREA 5	X
264	H-111	EL. 421.00 - AREA 6	X
265	H-200	SECTIONS - SHEET 1	X
266	H-201	SECTIONS - SHEET 2	X
267	H-202	SECTIONS - SHEET 3	X
268	H-600	SCHEDULES - SHEET 1	X
269	H-601	SCHEDULES - SHEET 2	X
270	H-602	SCHEDULES - SHEET 3	X
271	H-603	SCHEDULES - SHEET 4	X
272	H-604	DETAILS - SHEET 1	X
273	H-605	DETAILS - SHEET 2	X
274	H-606	DETAILS - SHEET 3	X
PLUMBING			
275	P-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
276	P-002	DOMESTIC WATER RISER DIAGRAM	X
277	P-003	SANITARY RISER DIAGRAM -SHEET 1	X
278	P-004	SANITARY RISER DIAGRAM -SHEET 2	X
279	P-005	STORM RISER DIAGRAM	X
280	P-100	BASEMENT PLAN EL 383.00	X
281	P-101	EL. 407.00 -AREA 1	X
282	P-102	EL. 407.00 -AREA 2	X
283	P-103	EL. 407.00 -AREA 3	X
284	P-104	EL. 407.00 -AREA 5	X
285	P-105	EL. 407.00 -AREA 6	X
286	P-106	BACKFLOW PREVENTION PLAN	X
287	P-107	SECOND FLOOR PLAN EL 421.00	X
288	P-108	EL. 421.00 -AREA 1	X
289	P-109	EL. 421.00 -AREA 2	X
290	P-110	EL. 421.00 -AREA 3	X
291	P-111	EL. 421.00 -AREA 4	X
292	P-112	EL. 421.00 -AREA 5	X
293	P-113	EL. 421.00 -AREA 6	X
294	P-114	ROOF PLAN	X
295	P-200	SECTIONS	X
296	P-600	SCHEDULES -SHEET 1	X
297	P-601	SCHEDULES -SHEET 2	X
298	P-602	DETAILS -SHEET 1	X
299	P-603	DETAILS -SHEET 2	X
300	P-604	DETAILS -SHEET 3	X
FIRE PROTECTION			

301	FP-001	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	X
302	FP-002	DETAILS -SHEET 1	X
303	FP-100	EL. 383.00 -OVERALL PLAN	X
304	FP-101	EL. 407.00 -OVERALL PLAN	X
305	FP-102	EL. 421.00 -OVERALL PLAN	X
ELECTRICAL			
306	E-001	LEGENDS, AND SYMBOLS	X
307	E-002	GENERAL NOTES & ABBREVIATIONS	X
308	E-003	OVERALL SINGLE LINE DIAGRAM	X
309	E-004	MCC-1 SINGLE LINE DIAGRAM	X
310	E-005	MCC-2 SINGLE LINE DIAGRAM SHEET 1	X
311	E-006	MCC-2 SINGLE LINE DIAGRAM SHEET 2	X
312	E-007	MCC-2 SINGLE LINE DIAGRAM SHEET 3	X
313	E-008	SWITCHBOARD AND GENERATOR SWITCHGEAR ELEVATIONS	X
314	E-009	MCC-1 ELEVATION	X
315	E-010	MCC-2 ELEVATION	X
316	E-011	SOLAR SYSTEM RISER DIAGRAM	X
317	E-012	PANEL BOARD SCHEDULES - SHEET 1	X
318	E-013	PANEL BOARD SCHEDULES - SHEET 2	X
319	E-014	PANEL BOARD SCHEDULES - SHEET 3	X
320	E-015	PANEL BOARD SCHEDULES - SHEET 4	X
321	E-016	PANEL BOARD SCHEDULES - SHEET 5	X
322	E-017	PANEL BOARD SCHEDULES - SHEET 6	X
323	E-018	WIRING DIAGRAM - SHEET 1	X
324	E-019	WIRING DIAGRAM - SHEET 2	X
325	E-020	WIRING DIAGRAM - SHEET 3	X
326	E-021	WIRING DIAGRAM - SHEET 4	X
327	E-022	FIRE ALARM SYSTEM RISER DIAGRAM - SHEET 1	X
328	E-023	FIRE ALARM SYSTEM RISER DIAGRAM - SHEET 2	X
329	E-024	SECURITY SYSTEM AND PAGING/COMMUNICATION NETWORK RISER DIAGRAM - SHEET 1	X
330	E-025	SECURITY SYSTEM AND PAGING/COMMUNICATION NETWORK RISER DIAGRAM - SHEET 2	X
331	E-100	SITE PLAN	X
332	E-101	POWER PLAN - EL 383.00 -AREA 1	X
333	E-102	POWER PLAN - EL 383.00 -AREA 2 & 3	X
334	E-103	POWER PLAN - EL 398.00 -AREA 1	X
335	E-104	POWER PLAN - EL 398.00 -AREA 2 & 3	X
336	E-105	POWER PLAN - EL 407.00 -AREA 1	X
337	E-106	POWER PLAN - EL 407.00 -AREA 2	X
338	E-107	POWER PLAN - EL 407.00 -AREA 3	X
339	E-108	POWER PLAN - EL 407.00 -AREA 4	X
340	E-109	POWER PLAN - EL 407.00 -AREA 5	X
341	E-110	POWER PLAN - EL 407.00 -AREA 6	X
342	E-111	POWER PLAN - EL 421.00 -AREA 1	X
343	E-112	POWER PLAN - EL 421.00 -AREA 2	X
344	E-113	POWER PLAN - EL 421.00 -AREA 3	X
345	E-114	POWER PLAN - EL 421.00 -AREA 4	X
346	E-115	POWER PLAN - EL 421.00 -AREA 5	X
347	E-116	POWER PLAN - EL 421.00 -AREA 6	X
348	E-117	POWER AND LIGHTING PLAN - EL 436.50 -ROOF	X
349	E-118	ENLARGED ROOM - EL 407.00	X
350	E-119	ENLARGED ROOM - EL 421.00	X
351	E-120	LIGHTING PLAN - EL 383.00 -AREA 1	X
352	E-121	LIGHTING PLAN - EL 383.00 -AREA 2 & 3	X
353	E-122	LIGHTING PLAN - EL 398.00 -AREA 1	X
354	E-123	LIGHTING PLAN - EL 398.00 -AREA 2 & 3	X
355	E-124	LIGHTING PLAN - EL 407.00 -AREA 1	X
356	E-125	LIGHTING PLAN - EL 407.00 -AREA 2	X
357	E-126	LIGHTING PLAN - EL 407.00 -AREA 3	X
358	E-127	LIGHTING PLAN - EL 407.00 -AREA 4	X
359	E-128	LIGHTING PLAN - EL 407.00 -AREA 5	X
360	E-129	LIGHTING PLAN - EL 407.00 -AREA 6	X
361	E-130	LIGHTING PLAN - EL 421.00 -AREA 1	X
362	E-131	LIGHTING PLAN - EL 421.00 -AREA 2	X
363	E-132	LIGHTING PLAN - EL 421.00 -AREA 3	X
364	E-133	LIGHTING PLAN - EL 421.00 -AREA 4	X
365	E-134	LIGHTING PLAN - EL 421.00 -AREA 5	X

366	E-135	LIGHTING PLAN - EL 421.00 -AREA 6	X
367	E-136	FIRE ALARM & SECURITY PLAN - EL 383.00 -AREA 1	X
368	E-137	FIRE ALARM & SECURITY PLAN - EL 383.00 -AREA 2 & 3	X
369	E-138	FIRE ALARM & SECURITY PLAN - EL 398.00 -AREA 1	X
370	E-139	FIRE ALARM & SECURITY PLAN - EL 398.00 -AREA 2 & 3	X
371	E-140	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 1	X
372	E-141	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 2	X
373	E-142	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 3	X
374	E-143	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 4	X
375	E-144	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 5	X
376	E-145	FIRE ALARM & SECURITY PLAN - EL 407.00 -AREA 6	X
377	E-146	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 1	X
378	E-147	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 2	X
379	E-148	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 3	X
380	E-149	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 4	X
381	E-150	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 5	X
382	E-151	FIRE ALARM & SECURITY PLAN - EL 421.00 -AREA 6	X
383	E-152	LIGHTNING PROTECTION PLAN	X
384	E-153	GROUNDING PLAN	X
385	E-201	STAIRCASE SECTIONS -SHEET 1	X
386	E-202	STAIRCASE SECTIONS -SHEET 2	X
387	E-501	WASTE WASHWATER TANK -POWER PLAN	X
388	E-601	STANDARD DETAILS - SHEET 1	X
389	E-602	STANDARD DETAILS - SHEET 2	X
390	E-603	STANDARD DETAILS - SHEET 3	X
391	E-604	STANDARD DETAILS - SHEET 4	X
392	E-605	STANDARD DETAILS - SHEET 5	X

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WARNING
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PROJECT ENGINEER:	R. FROST		
DESIGNED BY:	R. FROST		
DRAWN BY:	B. CASULL		
CHECKED BY:	E. FELDMAN		
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"		
REV	ISSUED FOR	DATE	BY

BID SET



Hazen

HAZEN AND SAWYER
498 SEVENTH AVENUE, 11th FLOOR
NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL
DRAWING INDEX - SHEET 8

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-003

ABBREVIATIONS

AB ANCHOR BOLT	DB DRY BULB	GWF GLAZED WALL FINISH	OA OUTDOOR AIR	STL STEEL
ABW AUTOMATIC BACKWASH	DC DIRECT CURRENT	GYP GYPSUM	OC ON CENTER	STO STORAGE
AC ALTERNATING CURRENT / ASBESTOS CEMENT / AIR CONDITIONING	DCDA DOUBLE CHECK DETECTOR ASSEMBLY	H HEIGHT	OD OUTSIDE DIAMETER	STRU STRUCTURAL SUBSTITUTE
ACCU AIR COOLED CONDENSING UNIT	DET DETAIL	HB HOSEBIB	OF OFF	SUP SUPPLY
ACH AIR CHANGES PER HOUR	DF DRINKING FOUNTAIN	HDW HARDWARE	OPER OPERATOR	SUPRT SUPERINTENDENT
ACT ACOUSTIC TILE	HEX HEXAGONAL	HFX HEXAGONAL	OPP OPPOSITE	SW SURFACE OPENING
AD AREA DRAIN	DHU DEHUMIDIFICATION UNIT	HHWL HIGH HIGH WATER LEVEL	ORIG ORIGINAL	SUSP SUSPENDED
ADDL ADDITIONAL	DI DISCRETE INPUT	HM HOLLOW METAL	OT OPEN TRUSS	SWD SWITCH
ADJ ADJUSTABLE	DIA (Ø) DIAMETER	HMCP HVAC MASTER CONTROL PANEL	OVHD OVERHEAD	SWBD SWITCHBOARD
AFV ABOVE FINISHED FLOOR	DIM DIMENSION	HMI HUMAN/MACHINE INTERFACE	P PROPAPE	SYM SYMMETRICAL
AGGR AGGREGATE	DIP DUCTILE IRON PIPE	HORZ HORIZONTAL	PAR PARALLEL	T TREAD / THERMOSTAT
AHU AIR HANDLING UNIT	DISCH DISCHARGE	HP HORSEPOWER	PC POINT OF CURVE/ PIECE	T&B TOP AND BOTTOM
AI ANALOG INPUT	DIST DISTRIBUTION	HPT HIGH POINT	PCC POINT OF COMPOUND CURVE	T&G TONGUE AND GROOVE
AL ALUMINUM	DJ DOUBLE JOINT	HR HOSE REEL / HOUR	PCF POUNDS PER CUBIC FOOT+	TAN TANGENT
ALLOW ALLOWANCE/ALLOWABLE	DL DEAD LOAD	HSS HOLLOW STRUCTURAL SECTION	PD PRESSURE DROP	TBM TEMPORARY BENCH MARK
ALT ALTERNATE	DN DOWN	HTR HEATER	PE PLAIN END / POWER	TC TOP OF CURB
AO ANALOG OUTPUT	DOZ DOZEN	HVAC HEATING, VENTILATION AND AIR CONDITIONING	PE LINING POLYETHYLENE LINING	TD TRENCH DRAIN
APPROX APPROXIMATE	DPIT DIFFERENTIAL PRESSURE INDICATING TRANSMITTER	HW HOT WATER	PERF PERFORATED	TDGV TILTED DISC CHECK VALVE
ARCH ARCHITECTURAL	DPOL DEWATERING POLYMER	HWB HOT WATER BOILER	PERP PERPENDICULAR	TDH TOTAL DYNAMIC HEAD
ASB ASBESTOS	DPSL DIFFERENTIAL PRESSURE SENSOR LOW	HWL HIGH WATER LEVEL	PG PRESSURE GAUGE	TFE TETRAFLUOROETHYLENE
ASPH ASPHALT	DR DOOR	HWP HOT WATER PUMP	PH HYDROGEN ION CONCENTRATION / PHASE	TECH TECHNICAL
ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS	DWG DRAWING	HWS HOT WATER SUPPLY	PI POINT OF INTERSECTION / PRESSURE INDICATOR	TEL TELEPHONE
ASTM AMERICAN SOCIETY FOR TESTING AND MATERIALS	DWH DOMESTIC WATER HEATER	HWY HIGHWAY	PL THROUGH THRU	TEMP TEMPERATURE
AT ASPHALT TILE	DWL DRAINAGE, WASTE AND VENT	HYD HYDRAULIC	PLC PROGRAMMABLE LOGIC CONTROLLER	TER TERRAZZO
ATC AUTOMATIC TEMPERATURE CONTROL	DX DIRECT EXPANSION REFRIGERANT	HZ HERTZ	PNL PANEL	THERM THERMOSTAT
B BORING	E EAST/ EASEMENT	IRON IRON	PP PREFAB	THK THICK
BD BOARD	EA EACH/ EXHAUST AIR	ID INSIDE DIAMETER	PRV PRESSURE RELIEF VALVE	THRU THROUGH
BFE BOTTOM OF FITTING ELEV	EAT ENTERING AIR TEMPERATURE	IF INSIDE FACE	PSF POUNDS PER SQUARE FOOT	TIMV THERMOSTATIC MIXING VALVE
BFP BACKFLOW PREVENTER	ECC ECCENTRIC	IN INCH	PSI POUNDS PER SQUARE INCH	TOC TOP OF CONCRETE
BFFA BACKFLOW PREVENTER ASSEMBLY	EF EACH FACE / EXHAUST FAN	INCL INCLUDED	PSV PRESSURE RELIEF VALVE	TOF TOP OF FOOTING
BFV BUTTERFLY VALVE	EFF EFFLUENT / EFFICIENCY	INT INSULATION	PT POINT OF TANGENT/ POINT	TOM TOP OF MASONRY/ MANHOLE
BHP BRAKE HORSE POWER	EIP EXIST IRON PIPE	INS INTERIOR	PSI POUNDS PER SQUARE INCH	TOW TOP OF WALL
BITUM BITUMINOUS	EJ EXPANSION JOINT	INV INVERT	PSV PRESSURE RELIEF VALVE	TOL TOLERANCE
BL BASE LINE/ BUILDING LINE	EL ELEVATION	IW INDIRECT WASTE	PT POINT OF TANGENT/ POINT	TPS TWISTED PAIR SHIELDED
BLCP BOILER LOCAL CONTROL PANEL	EL ELEC ELECTRICAL	IWH INSTANTANEOUS WATER HEATER	QTY QUANTITY	TRANS TRANSFORMER
BLDG BUILDING	ELL ELBOW	J JOIST	R RADIUS/ RISER	TS TEMPERATURE SWITCH
BLK BLOCK	EMB EMBEDDED	JB JUNCTION BOX	RA RETURN AIR	TURB TURBIDITY
BM BENCH MARK	ENGR ENGINEER	JCT JUNCTION	RA LAMINATED	TW TEPID WATER
BMCP BOILER MASTER CONTROL PANEL	ENT ENTRANCE	JT JOINT	RCP REINFORCED CONCRETE PIPE / RECIRCULATING PUMP	TWH THERM WATER HEATER
BOC BACK OF CURB	EOG EDGE OF GRAVEL	KW KILOWATT	RD ROAD/ ROOF DRAIN	TYP TYPICAL
BOD BOTTOM OF DUCT	EOP EDGE OF PAVEMENT	KS KITCHEN SINK	RECIR RECIRCULATION	UG UNDERGROUND
BOT BOTTOM	EQ EQUAL	L LENGTH/ ANGLE	RECT RECTANGULAR	UH HOT WATER UNIT HEATER
BRG BEARING	ES ELECTRIC POWER SUPPLY	LA LINE AHEAD	RED REDUCER	UL UNDERWRITERS LABORATORY
BRK BRICK	ESD EMERGENCY SHUTDOWN STATION	LAM LAMINATED	REF REFERENCE	UNFIN UNFINISHED
BRZ BRONZE	ESE EMERGENCY SHOWER AND EYEWASH	LAV LAVATORY	REG REGISTER	UR UNLESS NOTED OTHERWISE
BSMT BASEMENT	ESP EXTERNAL STATIC PRESSURE	LB POUND/ LINE BACK	REIN REINFORCING	UTIL UTILITY
BT BOLT	ETC ET CETERA	LCP LOCAL CONTROL PANEL	REIN REINFORCING	UV ULTRAVIOLET
BTU BRITISH THERMAL UNIT	EUH ELECTRIC UNIT HEATER	LF LINEAR FEET	REIN REINFORCING	UV ABSORBANCE AT 254 NANOMETERS
BUR BUILT-UP ROOFING	EW EACH WAY	LG LONG / LEVEL GAUGE	REIN REINFORCING	V SANITARY VENT
BV BALL VALVE	EWT ENTERING WATER TEMPERATURE	LL LIVE LOAD	REIN REINFORCING	VAC VACUUM
C CLOSET/CARPET/CHANNEL	F FAB FLUORINE / FAHRENHEIT	LLH LONG LEG HORIZONTAL	REIN REINFORCING	VAT VINYL ASBESTOS TILE
CAB CABINET	FAB FABRICATE	LLV LONG LEG VERTICAL	REIN REINFORCING	VB VACUUM BREAKER
CB CATCH BASIN	FAC FIRE ALARM CONTROL PANEL	LLWL LONG LEG WATER LEVEL	REIN REINFORCING	VCP VITRIFIED CLAY PIPE / VENDOR CONTROL PANEL
CC CENTER TO CENTER	F&C FRAME AND COVER	LWL LOW WATER LEVEL	REIN REINFORCING	VD VOLUME DAMPER
CCP CENTRIFUGE CONTROL PANEL	F&G FRAME AND GRATE	LWT LOW WATER TEMPERATURE	REIN REINFORCING	VEL VELOCITY
CD CEILING DIFFUSER	FC FLUSHING CONNECTION	Maint MAINTENANCE	REIN REINFORCING	VENT VENTILATING/ VENTILATION
CE CONSTRUCTION EASEMENT	FD FLOOR DRAIN / FIRE DAMPER	Matl MATERIAL	REIN REINFORCING	VERT VERTICAL
CEM CEMENT	FDC FIRE DEPARTMENT CONNECTION	Max MAXIMUM	REIN REINFORCING	VFD VARIABLE FREQUENCY DRIVE
CER CERAMIC	FDN FOUNDATION	MBH 1000 BTU PER HOUR	REIN REINFORCING	VOL VOLUME
CF CUBIC FEET	FE FIRE EXTINGUISHER	MCA MINIMUM CIRCUIT AMPACITY	REIN REINFORCING	VP VENT PIPE
CFM CUBIC FEET PER MINUTE	FF FINISHED FLOOR	MCD MOTOR CONTROL CENTER	REIN REINFORCING	VVC VINYL WALL COVERING
CFRT CHEMICAL FEED TANK	FH FIRE HYDRANT	MD MOTORIZED DAMPER	REIN REINFORCING	W WEST/ WIDTH
CI CAST IRON/ CUBIC INCHES	FIN FINISH	MECH MECHANICAL	REIN REINFORCING	WB WET BULB
CISPI CAST IRON SOIL PIPE	FIX FIXTURE	MEMB MEMBRANE	REIN REINFORCING	WC WATER CLOSET / WATER COLUMN
CIP CAST IRON PIPE	FL FLASHING/ FLOOR	MET METAL	REIN REINFORCING	WCO WALL CLEANOUT
CL CENTER LINE / CHLORINE / CLOSET	FLEX FLEXIBLE	MFR MANUFACTURER	REIN REINFORCING	WD WEIGHT DIFFUSER
CLG CEILING	FLG FLANGE	MG MILLION GALLONS	REIN REINFORCING	WE WEIGHT ELEMENT
CLKG CALKING	FLUOR FLUORESCENT	MGD MILLION GALLONS PER DAY	REIN REINFORCING	WF WIDE FLANGE
CLR CLEAR	FLXC FLEXIBLE CONNECTION	MH MANHOLE	REIN REINFORCING	WG WATER GAUGE
CLW CLEAR WATER DRAIN	FM FLOW METER	MIN MINIMUM	REIN REINFORCING	WH WATER HEATER
CMP CORRUGATED METAL PIPE	FP FIRE PROTECTION	MISC MISCELLANEOUS	REIN REINFORCING	WHA WATER HAMMER ARRESTER
CMU CONCRETE MASONRY UNIT	FPRF FIREPROOF	MJ MECHANICAL JOINT	REIN REINFORCING	WI WROUGHT IRON
CO2 CARBON DIOXIDE	FRP FIBERGLASS REINFORCED	MLDG MOLDING	REIN REINFORCING	WIT WEIGHT INDICATING
CO CLEANOUT	FS POLYESTER LAMINATE	MM MILLIMETER	REIN REINFORCING	WJWW WESTCHESTER JOINT
COAG COAGULANT	FT FLOW SWITCH	MO MASONRY OPENING	REIN REINFORCING	WL WATER LEVEL
CODP CLEANOUT DECK PLATE	FT FT FOOTING/ FITTING	MOCF MAXIMUM OVER-CURRENT PROTECTION	REIN REINFORCING	WL WATER LINE
COL COLUMN	FURR FURRING/ FURRED	MOD MODIFY/ MODIFIED	REIN REINFORCING	WM WATER METER
COMP COMPRESSOR	G GAS/ GAS LINE	MON MONUMENT	REIN REINFORCING	WMS WIRE MESH SCREEN
CONC CONCRETE	GA GAUGE	MOT MOTOR	REIN REINFORCING	WO WINDOW OPENING
CONN CONNECTION	GAC GRANULAR ACTIVATED CARBON	MTD MOUNTED	REIN REINFORCING	WO WITHOUT
CONST CONSTRUCTION	GAL GALLON	MTG MOUNTING	REIN REINFORCING	WP WATERPROOF
CONT CONTINUOUS	GALV GALVANIZED	MULT MULTIPLE	REIN REINFORCING	WPPF WATER PROOFING
CONTR CONTRACTOR	GC GENERAL CONTRACTOR	N NORTH	REIN REINFORCING	WPT WALL PENETRATING TYPE
CONV CONVEYOR	GD GRAVITY DAMPER	NA NOT APPLICABLE	REIN REINFORCING	WSE WATER SURFACE ELEVATION
CORP CORPORATION	GEN GENERATOR	NC NORMALLY CLOSED	REIN REINFORCING	WSHH WEIGHT SWITCH HIGH HIGH
CORR CORRIDOR	GI GALVANIZED IRON	NF NEAR FACE	REIN REINFORCING	WSP WEATHERSTRIP
CP CONCRETE PLANK	GL GLOBE VALVE	NFPA NATIONAL FIRE PROTECTION ASSOCIATION	REIN REINFORCING	WT WEIGHT
CPP CENTRIFUGE POWER PANEL	GLBV GLOBE VALVE	NORTH CONTRACTORS NATIONAL ASSOCIATION	REIN REINFORCING	WV WATER VALVE
CPVC CHLORINATED POLYVINYL CHLORIDE	GMU GLYCOL MAKEUP UNIT	NA NOT APPLICABLE	REIN REINFORCING	WWF WELDED WIRE FABRIC
CRS COURSE	GPH GALLONS PER HOUR	NC NORMALLY CLOSED	REIN REINFORCING	XH EXTRA HEAVY CAST IRON SOIL PIPE
CT CERAMIC TILE	GPM GALLONS PER MINUTE	NF NEAR FACE	REIN REINFORCING	YD YARD
CTJ CONTROL JOINT	GR GRADE / GRAINS OF MOISTURE	NFPA NATIONAL FIRE PROTECTION ASSOCIATION	REIN REINFORCING	YR YEAR
CU COPPER	GV GATE VALVE	NORTH CONTRACTORS NATIONAL ASSOCIATION	REIN REINFORCING	
CV CHECK VALVE	GW GUY WIRE	NA NOT APPLICABLE	REIN REINFORCING	
CW COLD WATER	GWB GYPSUM WALL BOARD	NC NORMALLY CLOSED	REIN REINFORCING	
CY CUBIC YARD		NF NEAR FACE	REIN REINFORCING	
DAF DISSOLVED AIR FLOTATION		NFPA NATIONAL FIRE PROTECTION ASSOCIATION	REIN REINFORCING	
		NH NO-HUB CAST IRON SOIL PIPE	REIN REINFORCING	
		NIC NOT IN CONTRACT	REIN REINFORCING	
		NO NUMBER / NORMALLY OPEN	REIN REINFORCING	
		NOM NOMINAL	REIN REINFORCING	
		NONPOT NON POTABLE HOT WATER	REIN REINFORCING	
		NPV NET POSITIVE SUCTION HEAD	REIN REINFORCING	
		NPT NON POTABLE WATER	REIN REINFORCING	
		NPT NATIONAL PIPE THREAD	REIN REINFORCING	
		NTS NOT TO SCALE	REIN REINFORCING	

GENERAL NOTES

- NOTES:
- THE CONTRACTOR SHALL DIRECT TRUCK DRIVERS TO USE MAJOR ROADS AND HIGHWAYS WHERE POSSIBLE TO AVOID THE USE OF RESIDENTIAL ROADS AND BACK STREETS AND ENSURE THAT ALL CONSTRUCTION TRUCK TRAFFIC BE REQUIRED TO APPROACH AND DEPART THE SITE FROM AND TO THE NORTH. CONSTRUCTION TRUCKS ARE PROHIBITED FROM MAKING LEFT-HAND TURNS WHEN EXITING THE PROJECT SITE ONTO PURCHASE STREET.
 - THE CONTRACTOR MUST POST AN ON-SITE SPEED LIMIT OF TEN (10) MILES PER HOUR AND FOLLOW SUCH SPEED AT ALL TIMES.

LEGEND

SYMBOLS		MATERIALS	
	GATE VALVE		WALL PENETRATION
	BUTTERFLY VALVE		UNION
	PLUG VALVE		FLUSHING CONNECTION
	SWING CHECK VALVE		HOSE BIB
	GLOBE VALVE		REDUCER
	PINCH VALVE		QUICK DISCONNECT FITTING
	DIAPHRAGM VALVE		SOIL BORING
	BALL VALVE		YARD HYDRANT
	BALL CHECK VALVE		FIRE HYDRANT
	MUD VALVE VALVE		
	HARNESSED FLANGED COUPLING ADAPTER		
	HARNESSED SLEEVE TYPE COUPLING		
	SLEEVE TYPE COUPLING		
	HARNESSED FLEXIBLE COUPLING		
	MECHANICAL COUPLING		
	WELDED JOINT		
	FLANGED JOINT		
	MECHANICAL PUSH-ON OR RESTRAINED JOINT		

LINETYPES	
	PROPOSED ITEMS
	EXISTING ITEMS
	HIDDEN ITEMS
	DEMOLITION ITEMS
	CENTER LINE
	MATCH LINE

SECTION AND DETAIL KEYING

(1) SECTION CUT ON DRAWING M-201:

(2) ON DRAWING M-201 THIS SECTION IS IDENTIFIED AS:

SECTION LETTER: A
DRAWING ON WHICH SECTION APPEARS*: M-201

(1) DETAIL CALL-OUT ON DRAWING M-201 AS:

DETAIL NUMBER: 1
DRAWING ON WHICH DETAIL IS SHOWN*: M-201

(2) ON DRAWING M-201 THIS DETAIL IDENTIFIED AS:

DETAIL NUMBER: 1
DRAWING ON WHICH DETAIL IS CALLED OUT*: M-201

* NOTE: IF PLAN, SECTION AND DETAIL (OR DETAIL CALL-OUT) ARE SHOWN ON SAME DRAWING, DRAWING NUMBER IS REPLACED BY A LINE.

STANDARD DETAIL IDENTIFICATION

STANDARD DETAILS ARE REFERENCED BY A UNIQUE SEVEN DIGIT NUMBER AND ARE SHOWN ON THE CONTRACT DRAWINGS AS SHOWN:

STANDARD DETAILS ARE ARRANGED IN NUMERICAL ORDER ON THE STANDARD SHEETS

EQUIPMENT ID: X-123

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PROJECT ENGINEER:	R. FROST
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IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET

Hazen

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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-004

AREA/ROOM DESIGNATION			
ROOM NUMBER	BUILDING NAME	AREA/ROOM NAME	AREA/ROOM DESIGNATION
001	FILTRATION PLANT	BACKWASH TANK	INDOOR WET PROCESS AREA
002	FILTRATION PLANT	FILTERED WATER TRANSFER TANKS	INDOOR WET PROCESS AREA
003	FILTRATION PLANT	FLOATED SOLIDS BUFFER TANK	INDOOR WET PROCESS AREA
004	FILTRATION PLANT	UV DISINFECTION SYSTEM	INDOOR WET PROCESS AREA
005	FILTRATION PLANT	RESIDUALS STORAGE TANKS	INDOOR WET PROCESS AREA
006	FILTRATION PLANT	STORAGE CLOSET	INDOOR DRY NON-PROCESS AREA
007	FILTRATION PLANT	PIPE GALLERY	INDOOR WET PROCESS AREA
008	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
101	FILTRATION PLANT	HYDROFLUOROSILICIC ACID	TYPE 1 CHEMICAL STORAGE / TRANSFER AREA
102	FILTRATION PLANT	SODIUM HYPOCHLORITE	TYPE 1 CHEMICAL STORAGE / TRANSFER AREA
103	FILTRATION PLANT	COAGULANT	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
104	FILTRATION PLANT	CORROSION INHIBITOR	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
105	FILTRATION PLANT	POLYMER/SOFTENER (FUTURE)	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
106	FILTRATION PLANT	FILTERED WATER PUMPING & DAF ROOM	INDOOR WET PROCESS AREA
107	FILTRATION PLANT	SODIUM HYDROXIDE	TYPE 2 CHEMICAL STORAGE / TRANSFER AREA
108	FILTRATION PLANT	CLOSET	INDOOR DRY NON-PROCESS AREA
109	FILTRATION PLANT	DEWATERING ROOM	INDOOR WET PROCESS AREA
110	FILTRATION PLANT	FIRE SPRINKLER RISER ROOM	INDOOR DRY NON-PROCESS AREA
111	FILTRATION PLANT	CONFERENCE ROOM	INDOOR DRY NON-PROCESS AREA
112	FILTRATION PLANT	LOBBY	INDOOR DRY NON-PROCESS AREA
113	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
114	FILTRATION PLANT	MAINTENANCE CLOSET	INDOOR DRY NON-PROCESS AREA
115	FILTRATION PLANT	WOMENS BATHROOM	INDOOR DRY NON-PROCESS AREA
116	FILTRATION PLANT	WOMENS LOCKER ROOM	INDOOR DRY NON-PROCESS AREA
117	FILTRATION PLANT	MENS BATHROOM	INDOOR DRY NON-PROCESS AREA
118	FILTRATION PLANT	MENS LOCKER ROOM	INDOOR DRY NON-PROCESS AREA
119	FILTRATION PLANT	ELECTRICAL	INDOOR DRY NON-PROCESS AREA
120	FILTRATION PLANT	RAW WATER PIPING	INDOOR WET PROCESS AREA
121	FILTRATION PLANT	STATIC MIXER AND OVERFLOW	INDOOR WET PROCESS AREA
122	FILTRATION PLANT	DAF TANKS	INDOOR WET PROCESS AREA
123	FILTRATION PLANT	EQUIPMENT PLATFORM	INDOOR WET PROCESS AREA
124	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
201	FILTRATION PLANT	HVAC	INDOOR DRY NON-PROCESS AREA
202	FILTRATION PLANT	AIR SCOUR	INDOOR DRY NON-PROCESS AREA
203	FILTRATION PLANT	ELECTRICAL ROOM	INDOOR DRY NON-PROCESS AREA
204	FILTRATION PLANT	STORAGE ROOM	INDOOR DRY NON-PROCESS AREA
205	FILTRATION PLANT	PROCESS ANALYSIS ROOM	INDOOR WET PROCESS AREA
206	FILTRATION PLANT	CONTROL ROOM	INDOOR DRY NON-PROCESS AREA
207	FILTRATION PLANT	SCADA ROOM	INDOOR DRY NON-PROCESS AREA
208	FILTRATION PLANT	HVAC	INDOOR DRY NON-PROCESS AREA
209	FILTRATION PLANT	COPY ROOM	INDOOR DRY NON-PROCESS AREA
210	FILTRATION PLANT	CHIEF'S OFFICE	INDOOR DRY NON-PROCESS AREA
211	FILTRATION PLANT	VESTIBULE	INDOOR DRY NON-PROCESS AREA
212	FILTRATION PLANT	MAINTENANCE CLOSET	INDOOR DRY NON-PROCESS AREA
213	FILTRATION PLANT	WC	INDOOR DRY NON-PROCESS AREA
214	FILTRATION PLANT	OPEN OFFICE	INDOOR DRY NON-PROCESS AREA
215	FILTRATION PLANT	HVAC	INDOOR DRY NON-PROCESS AREA
216	FILTRATION PLANT	STORAGE ROOM	INDOOR DRY NON-PROCESS AREA
217	FILTRATION PLANT	HVAC PLENUM	INDOOR DRY NON-PROCESS AREA
218	FILTRATION PLANT	OPERATING LEVEL	INDOOR WET PROCESS AREA
C01	FILTRATION PLANT	CORRIDOR	INDOOR DRY NON-PROCESS AREA
C02	FILTRATION PLANT	CORRIDOR	INDOOR DRY NON-PROCESS AREA
C03	FILTRATION PLANT	CORRIDOR	INDOOR DRY NON-PROCESS AREA
E01	FILTRATION PLANT	ELEVATOR	INDOOR DRY NON-PROCESS AREA
SA	FILTRATION PLANT	STAIR A	INDOOR DRY NON-PROCESS AREA
SB	FILTRATION PLANT	STAIR B	INDOOR DRY NON-PROCESS AREA
SC	FILTRATION PLANT	STAIR C	INDOOR DRY NON-PROCESS AREA
	ELECTRICAL SERVICE BUILDING	ELECTRICAL ROOM	INDOOR DRY NON-PROCESS AREA
	FILTRATION PLANT	INDOOR AREAS/ ROOMS NOT LISTED	INDOOR WET PROCESS AREA
	PUMP STATION	INDOOR AREAS/ ROOMS NOT LISTED	INDOOR WET PROCESS AREA
	SITE	OUTDOOR AREAS	OUTDOOR AREA
	FILTRATION PLANT	OUTDOOR AREAS	OUTDOOR AREA
	PUMP STATION	OUTDOOR AREAS	OUTDOOR AREA

AREA/ROOM DESIGNATION MATERIAL REQUIREMENTS						
DISCIPLINE / COMPONENT	AREA DESIGNATIONS					
	INDOOR WET PROCESS AREA	INDOOR DRY PROCESS AREA	INDOOR DRY NON- PROCESS AREA	TYPE 1 CHEMICAL STORAGE/TRANSFER AREA	TYPE 2 CHEMICAL STORAGE/TRANSFER AREA	OUTDOOR AREA
PROCESS MECHANICAL						
PIPE SUPPORTS	Per Section 40 05 07	See Section 40 05 07	See Section 40 05 08	FRP	FRP	316L SST, NOTE 2
PIPE SUPPORTS FOR SST AIR PIPE	316L SST, NOTE 2	304L SST, NOTE 2	304L SST	FRP	FRP	304L SST, NOTE 2
PIPE SUPPORT ANCHORS	316L SST	316L SST	304L SST	HASTELLOY C	316L SST	316L SST, NOTE 2
EQUIPMENT & CHEMICAL TANK ANCHORS	316L SST	316L SST	316L SST	HASTELLOY C	316L SST	316L SST
PIPE SUPPORT FASTENING HARDWARE AND THREADED ROD	Per Section 40 05 07	Per Section 40 05 07	HOT DIP GALV	FRP	FRP	316L SST, NOTE 2
STRUCTURAL						
GUARDS & RAILINGS	ALUMINUM OR FRP	ALUMINUM OR FRP	ALUMINUM OR FRP	FRP	FRP	ALUMINUM
GRATING	ALUMINUM OR FRP	ALUMINUM OR FRP	ALUMINUM OR FRP	FRP	FRP	ALUMINUM
GUARDS, RAILINGS, & GRATING ANCHORS	316L SST	304L SST	304L SST	HASTELLOY C	316L SST	316L SST
GUARDS, RAILINGS, & GRATING FASTENING HARDWARE	316L SST	304L SST	304L SST	316L SST	316L SST	304L SST
WATERSTOPS	PVC	PVC	PVC	CHEMICAL RESISTANT TFE	CHEMICAL RESISTANT TFE	PVC
HVAC						
DUCT HANGERS	316L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
DUCT HANGER ANCHORS	316L SST	304L SST	HOT DIP GALV	HASTELLOY C, NOTE 4	316L SST	304L SST
DUCT HANGER FASTENING HARDWARE AND THREADED ROD	316L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
PLUMBING						
PIPE HANGERS	304L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
HANGER ANCHORS	316L SST	304L SST	HOT DIP GALV	HASTELLOY C, NOTE 4	316L SST	304L SST
HANGER FASTENING HARDWARE AND THREADED ROD	304L SST	304L SST	HOT DIP GALV	FRP, NOTE 3	316L SST	304L SST
ELECTRICAL						
SUPPORT CHANNELS AND THREADED ROD	316L SST	HOT DIP GALV	HOT DIP GALV	FRP	316L SST	304L SST
ANCHORS	316L SST	304L SST	304L SST	HASTELLOY C	316L SST	316L SST
FASTENING HARDWARE	316L SST	304L SST	HOT DIP GALV	FRP	316L SST	304L SST

NOTES:
1. THIS TABLE PROVIDES MINIMUM ACCEPTABLE MATERIAL REQUIREMENTS IF NO FURTHER GUIDANCE IS GIVEN IN DRAWINGS AND SPECIFICATIONS. ALTERNATE MATERIALS MAY BE REQUIRED WHERE SPECIFICALLY IDENTIFIED IN DRAWINGS OR SPECIFICATIONS.
2. PIPE SUPPORT MATERIALS (SUPPORTS, ANCHORS, FASTENING HARDWARE) SUBMERGED OR PARTIALLY SUBMERGED IN A PROCESS TANK SHALL BE CONSTRUCTED OF 316L SST.
3. VERIFY RESIN IS COMPATIBLE WITH THE CHEMICAL ENVIRONMENT. SEE SPECIFICATION 06 51 00 GLASS FIBER AND RESIN FABRICATION FOR FURTHER INFORMATION.
4. FOR ANCHORS EXPOSED TO SODIUM HYPOCHLORITE AND FERRIC CHLORIDE, TITANIUM ANCHORS MAY BE USED IN LIEU OF HASTELLOY C ANCHORS. FIBERGLASS FASTENERS MAY BE USED AS AN ALTERNATIVE TO HASTELLOY C ANCHORS PROVIDED ANCHOR STRENGTH CRITERIA CAN BE MET.

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PROJECT ENGINEER:	R. FROST
DESIGNED BY:	R. FROST
DRAWN BY:	B. CASULL
CHECKED BY:	E. FELDMAN
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO FULL SCALE	0 1/2" 1"

BID SET



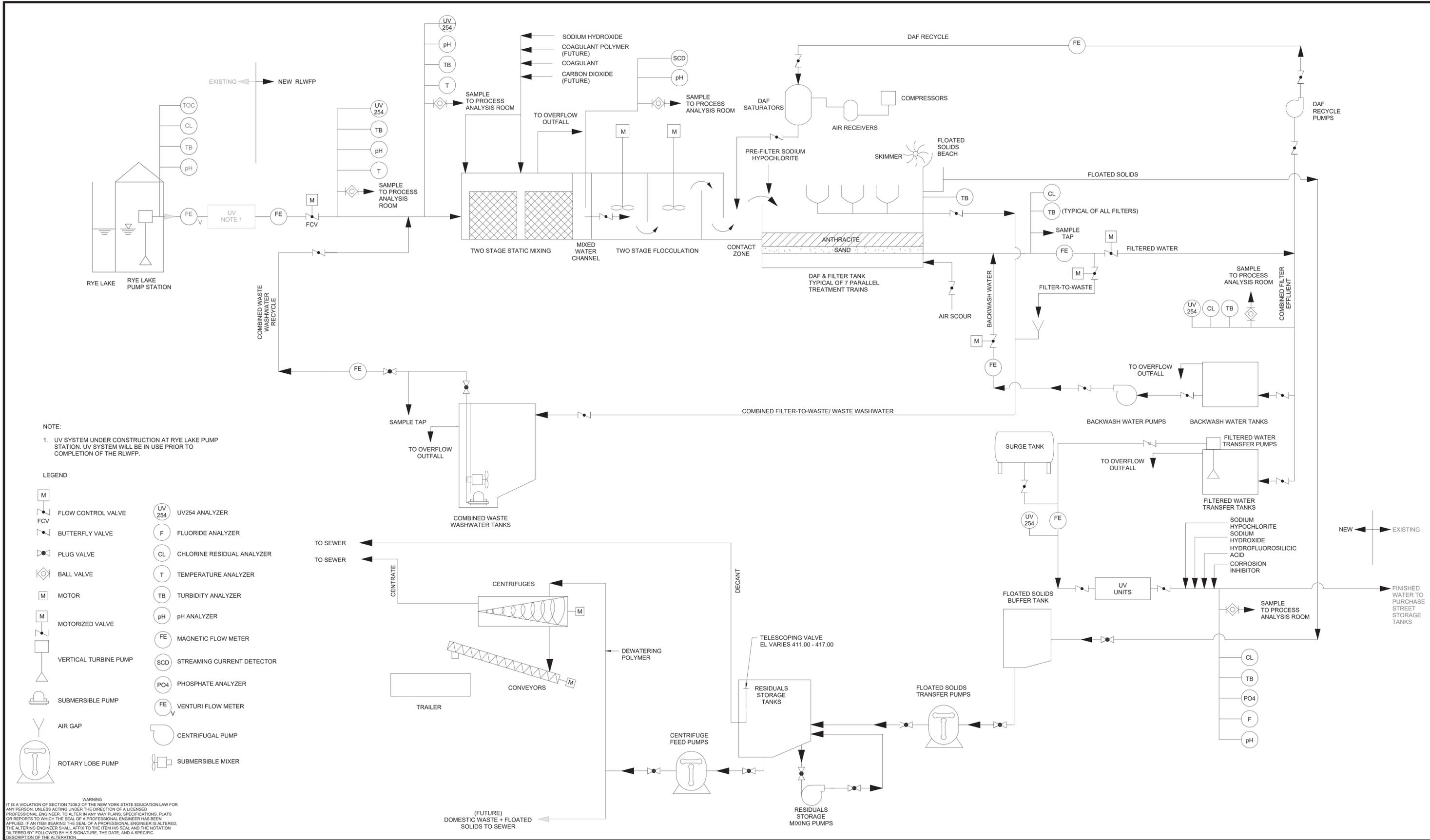
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NEW YORK, NEW YORK 10018

WESTCHESTER JOINT WATER WORKS
MAMARONECK, NY

RYE LAKE WATER FILTRATION PLANT
HARRISON, NY

GENERAL
GENERAL AREA DESIGNATION TABLES

DATE:	FEB 2025
HAZEN NO.:	90388-000
CONTRACT NO.:	A1364-A
DRAWING NUMBER:	G-005



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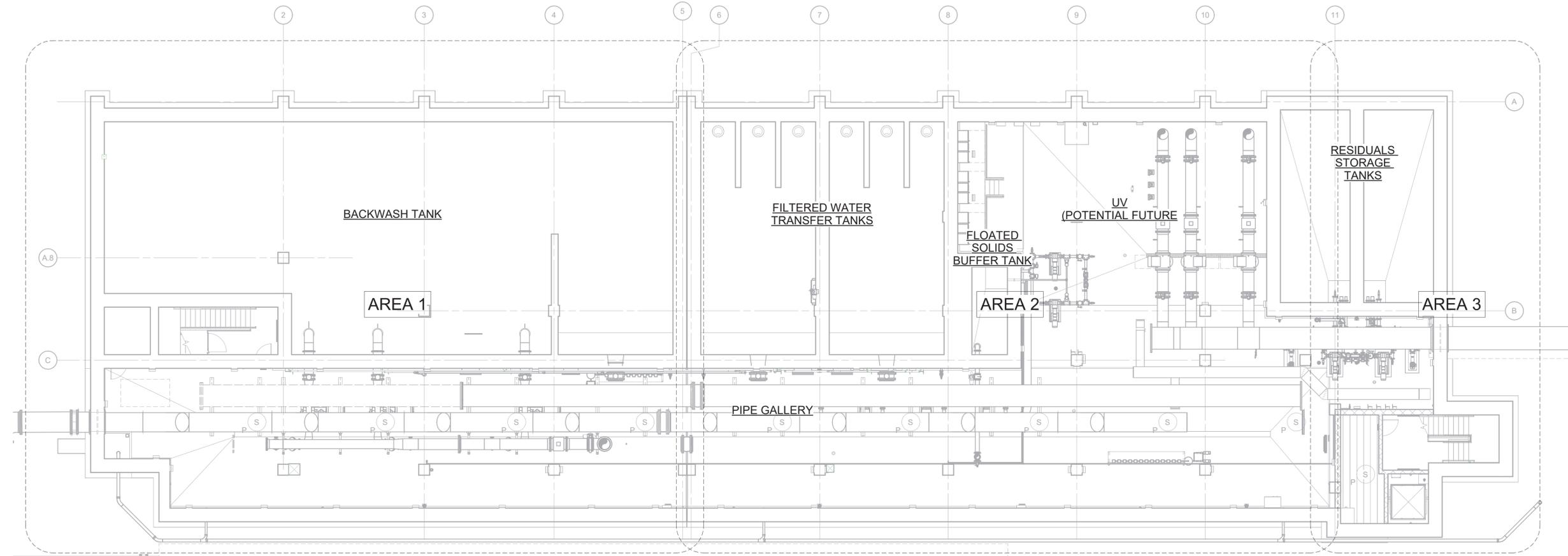
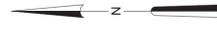
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GENERAL
PROCESS FLOW SCHEMATIC

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GENERAL ARRANGEMENT PLAN EL 384.00
3/32" = 1'-0"

3/32" = 1'-0"

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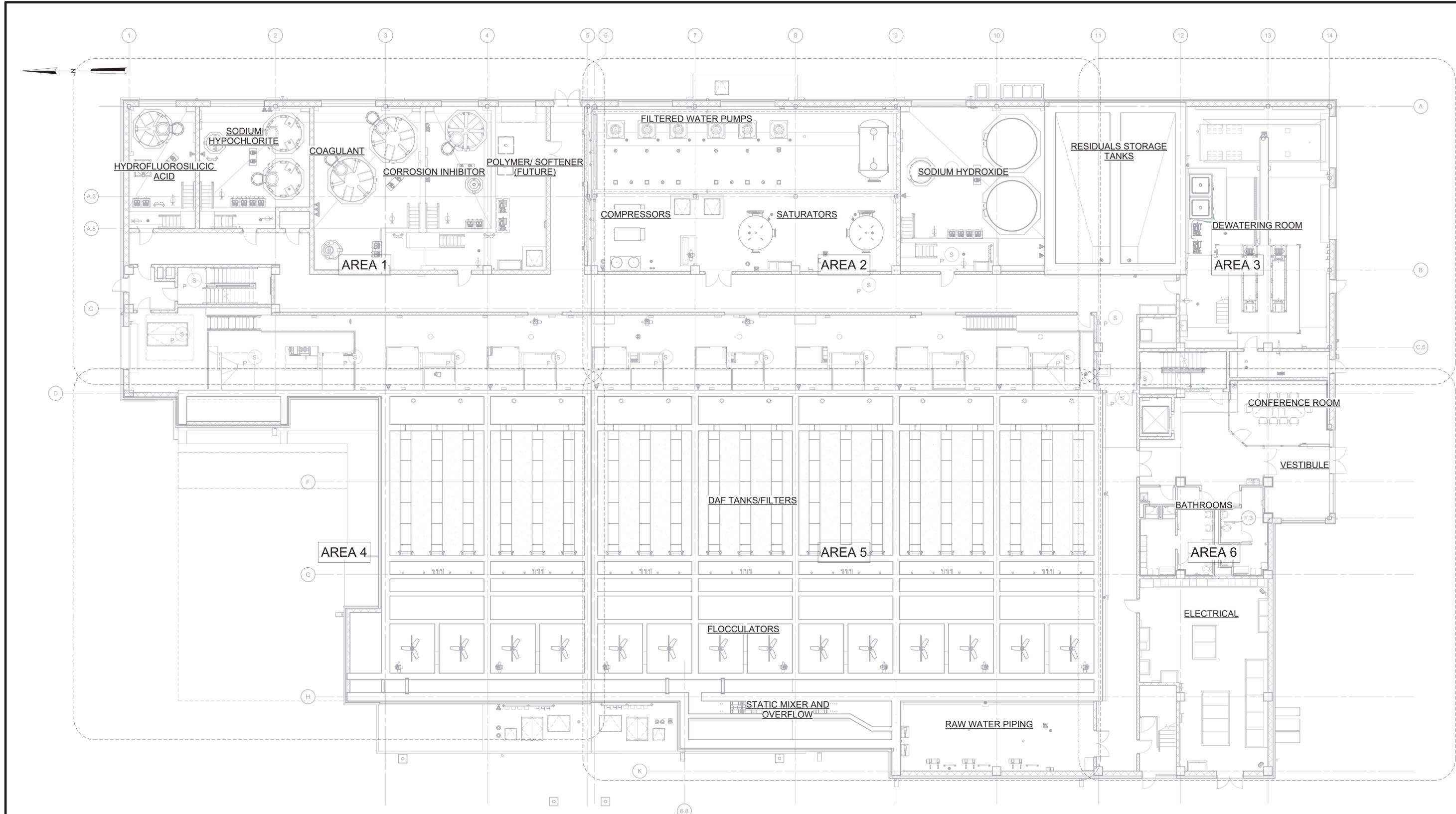
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DRAWING NUMBER:	G-100



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DESIGNED BY:	R. FROST
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CHECKED BY:	E. FELDMAN
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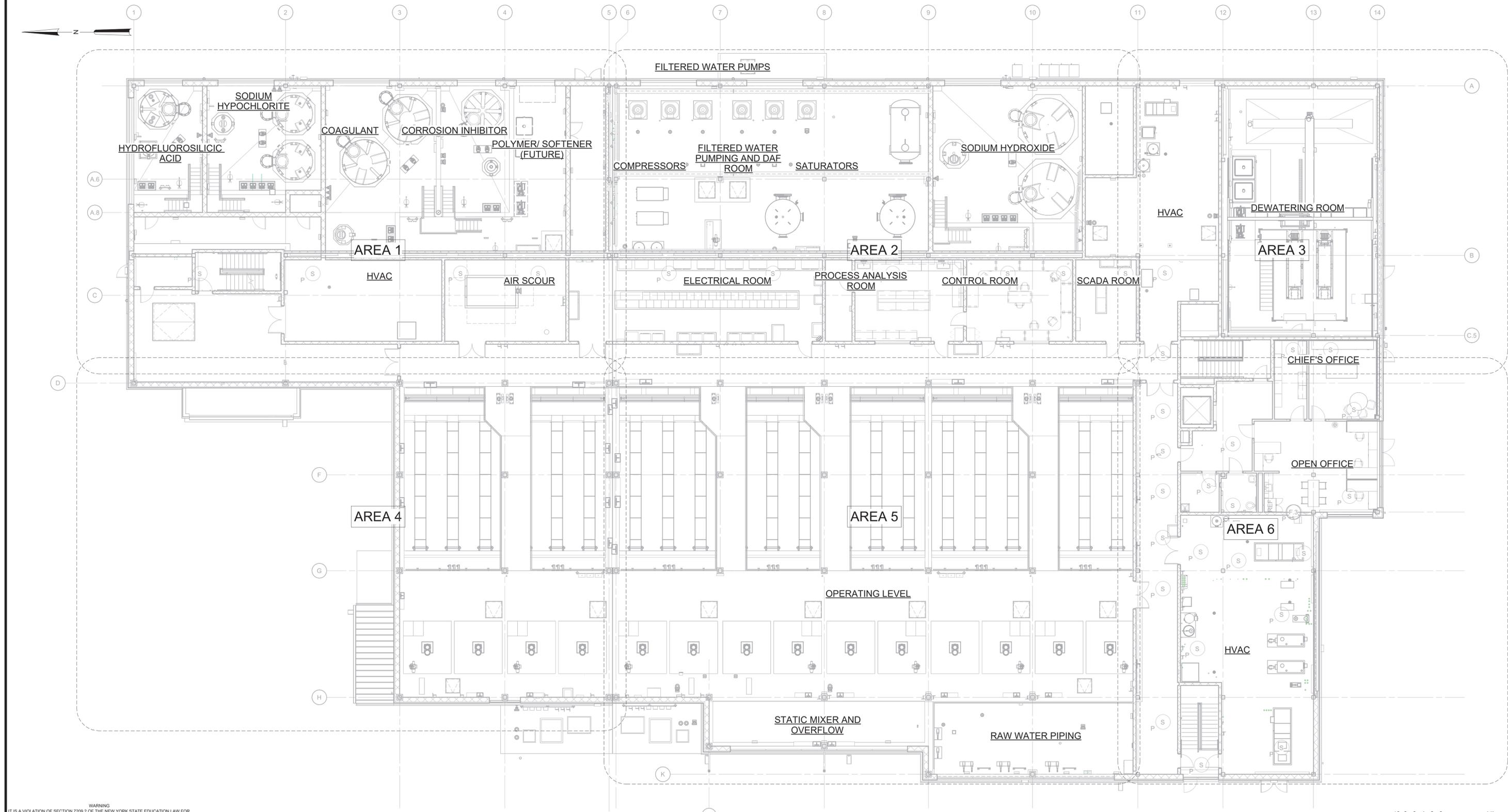
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PROJECT ENGINEER:	R. FROST
DESIGNED BY:	R. FROST
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CHECKED BY:	E. FELDMAN
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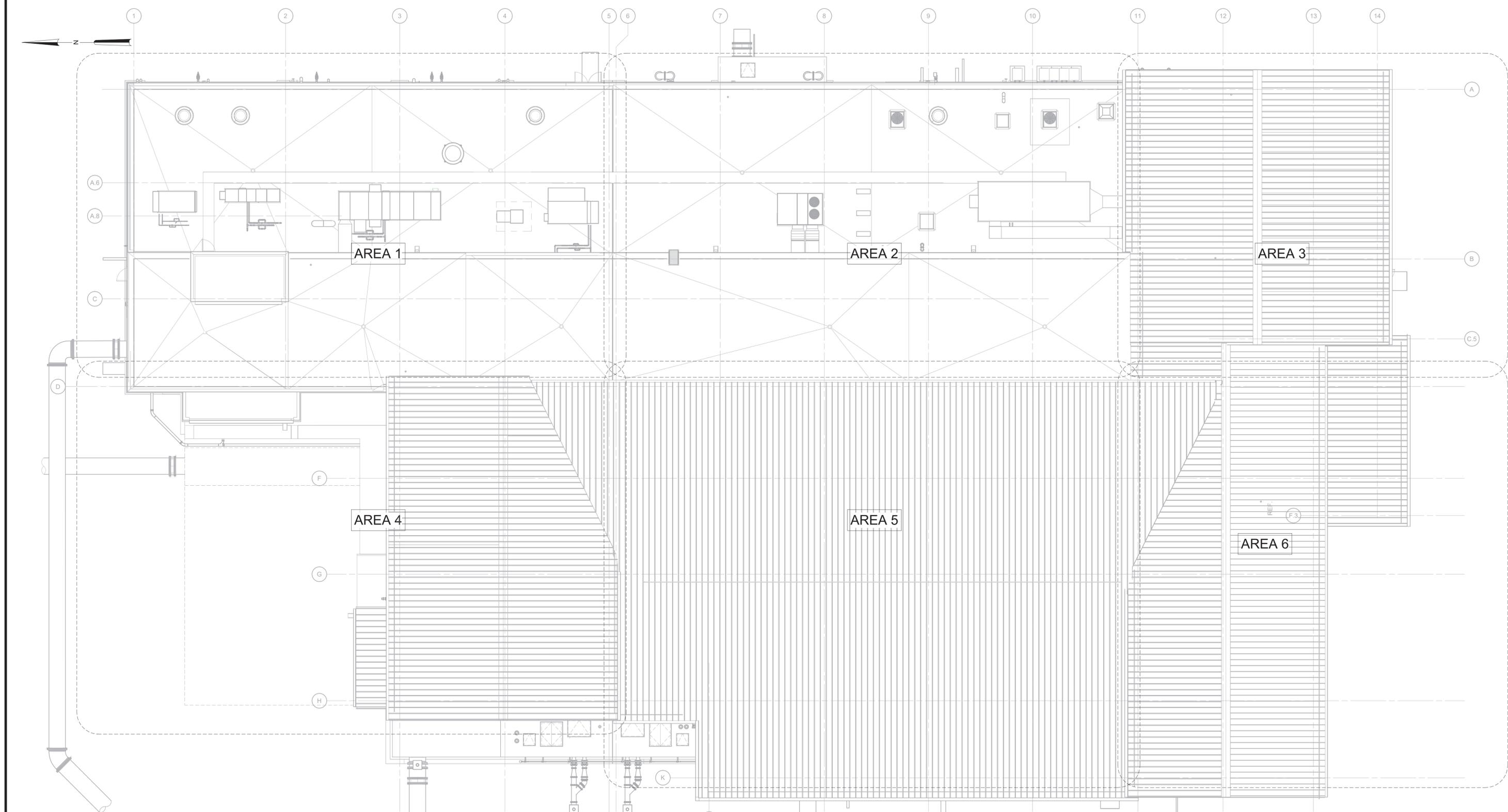
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GENERAL ARRANGEMENT PLAN ROOF

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10 8 6 4 2 0 11'

3/32" = 1'-0"

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CONTRACT NO.:	A1364-A
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