

NO.	BY	CHKD	APRV	REVISION	DATE
	JW	JHR	JHR	ISSUE FOR BID	09.14.18
△1	JW	JHR	JHR	RFI CLARIFICATIONS	10.09.18
△2	JW	JHR	JHR	REVISION 3	10.22.18
△3	JW	JHR	JHR	SUSSEX CONSERVATION DISTRICT	10.23.18
	JW	JHR	JHR	DNREC SUBMITTAL	01.02.19
△4	JW	JHR	JHR	DNREC RE-SUBMITTAL	11.15.19
△5	JW	JHR	JHR	DNREC RE-SUBMITTAL	02.05.20

REID ENGINEERING COMPANY-PROCESS FLOW

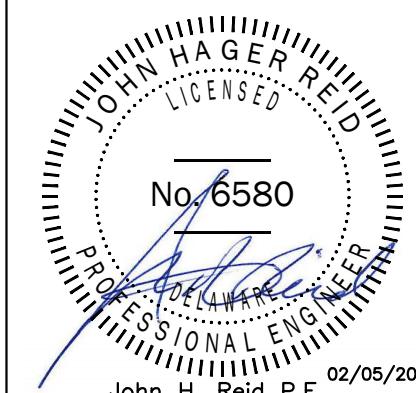
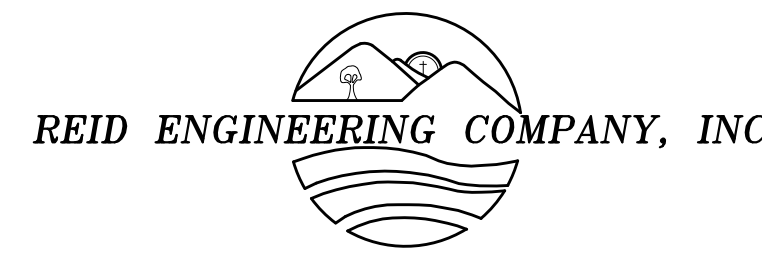
△△	F100	PROCESS FLOW DIAGRAM	UPDATE
△△	F100A	EXISTING PROCESS FLOW DIAGRAM	
	F101	HYDRAULIC PROFILES	UPDATE
	F200	P&ID SYMBOLS	
△	F201	P&ID SYMBOLS	
△	F300	EX. ANAEROBIC LAGOON No.1 & No.2 P&ID	REPLACE
	F301	NEW ANAEROBIC LAGOON No.3 P&ID	REPLACE
	F302	NEW REACTOR No.1 & No.2 P&ID	DWG # CHANGE
△	F303	EX. MLE TANK NEW REACTOR No.3 & No.4 P&ID	DWG # CHANGE
	F304	FINAL CLARIFIERS P&ID	DWG # CHANGE
△	F305	NEW SAND FILTERS P&ID	DWG # CHANGE
	F306	NEW PLANT SITE PUMP STATIONS No.1 & No.2 P&ID	DWG # CHANGE
	F307	EXISTING WASTE ACTIVATED SLUDGE AEROBIC DIGESTER No.1 P&ID	DWG # CHANGE
	F308	WASTE ACTIVATED SLUDGE AEROBIC DIGESTER No.2 & No.3 P&ID	DWG # CHANGE
	F309	NEW SLUDGE DEWATERING SCREW PRESS P&ID	DWG # CHANGE

MCCRONE-CIVIL CONTINUED

	C800	SEDIMENT & SWM COVER SHEET	
	C900	OVERALL CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	UPDATE
△△	C901	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	
△△	C902	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	
△△	C903	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	REPLACE
△△	C904	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	REPLACE
	C905	CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	
△	C1000	CONSTRUCTION SITE DETAILS AND NOTES	
	C1001	CONSTRUCTION SITE DETAILS AND NOTES	
	C1002	CONSTRUCTION SITE DETAILS AND NOTES	
	C1003	CONSTRUCTION SITE DETAILS AND NOTES	
	C1004	CONSTRUCTION SITE DETAILS AND NOTES	
	C1100	OVERALL POST-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN	UPDATE
	C1101	POST-CONSTRUCTION SITE STORMWATER MANAGEMENT PLAN - FACILITY #1	
	C1102	PRE-LIMIT OF DISTURBANCE DRAINAGE AREA PLAN	
	C1103	PRE-LIMIT OF DISTURBANCE DRAINAGE AREA PLAN	REPLACE
	C1200	POST-LIMIT OF DISTURBANCE DRAINAGE AREA PLAN	
	C1201	POST-LIMIT OF DISTURBANCE DRAINAGE AREA PLAN	REPLACE
	C1300	EXISTING CONTRIBUTING DRAINAGE AREA PLAN	
	C1301	EXISTING CONTRIBUTING DRAINAGE AREA PLAN	REPLACE
	C1400	BMP CONTRIBUTING DRAINAGE AREA PLAN	
	C1401	BMP CONTRIBUTING DRAINAGE AREA PLAN	REPLACE
	C1500	FIRE MARSHAL PLAN	UPDATE

MCCRONE-CIVIL

	C000	COVER SHEET	
	C001	GENERAL NOTES	
	C100	OVERALL EXISTING CONDITIONS PLAN	
	C101	EXISTING CONDITIONS PLAN	
	C102	EXISTING CONDITIONS PLAN	
	C103	EXISTING CONDITIONS PLAN	
	C104	EXISTING CONDITIONS PLAN	
	C105	EXISTING CONDITIONS PLAN	
△△	C200	OVERALL SITE PLAN	UPDATE
△△	C201	SITE PLAN	UPDATE
△△	C202	SITE PLAN	
△△	C203	SITE PLAN	REPLACE
△△	C204	SITE PLAN	REPLACE
	C205	SITE PLAN	
△△	C300	OVERALL GRADING PLAN	UPDATE
△△	C301	GRADING PLAN	
△△	C302	GRADING PLAN	
△△	C303	GRADING PLAN	REPLACE
△△	C304	GRADING PLAN	REPLACE
	C305	GRADING PLAN	
△△	C400	OVERALL STORM DRAIN UTILITY PLAN	UPDATE
△△	C401	STORM DRAIN UTILITY PLAN	
△△	C402	STORM DRAIN UTILITY PLAN	
△△	C403	STORM DRAIN UTILITY PLAN	REPLACE
△△	C404	STORM DRAIN UTILITY PLAN	REPLACE
	C405	STORM DRAIN UTILITY PLAN	
	C500	STORM DRAIN UTILITY PROFILES	
	C501	STORM DRAIN UTILITY PROFILES	
	C600	SITE DETAIL SHEET	
	C700	UTILITY DETAIL SHEET	
	C701	UTILITY DETAIL SHEET	

	DRAWN BY: JW DESIGNED BY: JHR CHKD BY: JHR	 <p>1210 Princess Anne Street Fredericksburg, Virginia 22401 Tel:(540) 371-8500 Fax:(540) 371-8576</p>	INDEX		
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	SUSSEX COUNTY, DELAWARE		DATE: 01.02.19 SCALE: NONE	PROJECT NO. MNO1B DWG NO: INDEX	

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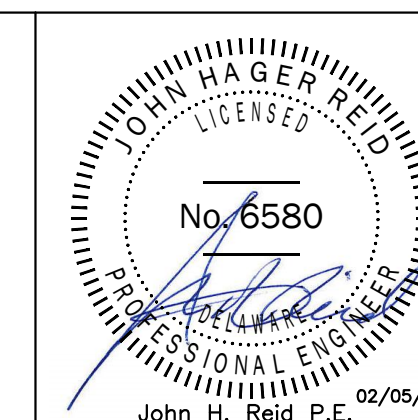
△	C1600	OVERALL UNDERGROUND PIPING PLAN	UPDATE
△	C1601	OVERALL UNDERGROUND PIPING PLAN ENLARGEMENT	
	C1700	PLAN AND PROFILE	DELETE
	C1701	PLAN AND PROFILE	DELETE
	C1702	PLAN AND PROFILE	DELETE
	C1703	PLAN AND PROFILE	DELETE
	C1704	PLAN AND PROFILE	DELETE
	C1705	PLAN AND PROFILE	DELETE
	C1706	PLAN AND PROFILE	DELETE
	C1707	PLAN AND PROFILE	
	C1708	PLAN AND PROFILE	
	C1709	PLAN AND PROFILE	
	C1710	PLAN AND PROFILE	
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	C1713	PLAN AND PROFILE	
	C1714	PLAN AND PROFILE	
	C1715	PLAN AND PROFILE	
	C1716	PLAN AND PROFILE	
	C1717	PLAN AND PROFILE	UPDATE
	C1718	PLAN AND PROFILE	
	C1719	PLAN AND PROFILE	UPDATE
	C1720	PLAN AND PROFILE	
	C1721	PLAN AND PROFILE	
△	C1722	PLAN AND PROFILE	

REID ENGINEERING COMPANY-MECHANICAL

△	M100	MECHANICAL KEY SHEET	UPDATE
	M200	AREA SITE PLAN	UPDATE
	M300	EX. ANAEROBIC LAGOON No.1 & No.2 FLOW SPLITTER TANK MODIFICATION	DELETE
	M301	EX. ANAEROBIC LAGOON No.1 & No.2 FLOW SPLITTER TANK SECTIONS	DELETE
	M400	NEW ANAEROBIC LAGOON No.1 & No.2 EFFLUENT PUMP STATION AREA PLAN	DELETE
	M401	NEW ANAEROBIC LAGOON No.1 & No.2 EFFLUENT PUMP STATION PLAN	DELETE
	M402	NEW ANAEROBIC LAGOON No.1 & No.2 EFFLUENT PUMP STATION SECTIONS	DELETE
	M403	NEW ANAEROBIC LAGOON No.1 & No.2 EFFLUENT PUMP STATION SECTIONS	DELETE
	M404	EX. ANAEROBIC LAGOON No.1 & 2 EFFLUENT PUMP STATION DEMO PLAN	DELETE
	M500	EX. D.A.F POST ANAEROBIC LAGOON AREA PLAN	DELETE
△	M600	NEW 22MG ANAEROBIC LAGOON No.3 AREA PLAN	DELETE
△	M601	NEW 22MG ANAEROBIC LAGOON No.3 LINER PLAN AND DETAILS	DELETE
△	M602	NEW 22MG ANAEROBIC LAGOON No.3 SECTIONS	DELETE
△	M603	NEW 22MG ANAEROBIC LAGOON No.3 SLUDGE DRAW-OFF PIPING PLAN	DELETE
△	M604	NEW 22MG ANAEROBIC LAGOON SLUDGE DRAW-OFF PIPE SECTIONS	DELETE
△	M605	NEW 22MG ANAEROBIC LAGOON DETAILS	DELETE
△	M610	NEW ANAEROBIC LAGOON EFFLUENT PUMP STATION PLAN AND SECTIONS	DELETE
△	M611	NEW ANAEROBIC LAGOON EFFLUENT PUMP STATION PLAN AND SECTIONS	DELETE
△	M620	NEW ANAEROBIC LAGOON UNDERDRAIN PUMP STATION PLAN AND SECTIONS	DELETE
	M700	NEW REACTOR EQUIPMENT BUILDING AREA PLAN	
	M701	NEW REACTOR EQUIPMENT BUILDING LOWER LEVEL AREA PLAN	
	M702	NEW REACTOR EQUIPMENT BUILDING UPPER LEVEL AREA PLAN	
	M710	NEW REACTOR EQUIPMENT BUILDING PLAN	
	M711	NEW REACTOR EQUIPMENT BUILDING SUCTION PIPING PLAN	
	M712	NEW REACTOR EQUIPMENT BUILDING DISCHARGE PIPING PLAN	
	M713	NEW REACTOR & EQUIPMENT BUILDING SECTIONS	
	M714	NEW REACTOR & EQUIPMENT BUILDING SECTIONS	
	M715	NEW REACTOR & EQUIPMENT BUILDING SECTIONS	
	M716	NEW REACTOR & EQUIPMENT BUILDING SECTIONS	
	M717	NEW REACTOR & EQUIPMENT BUILDING SECTIONS	
	M720	NEW CHEMICAL EQUIPMENT BUILDING PLAN	
	M721	NEW CHEMICAL EQUIPMENT BUILDING SECTIONS	
	M722	NEW CHEMICAL NOTES AND DETAILS	
	M723	NEW CHEMICAL ROUTING PLAN	
	M724	NEW CHEMICAL ROUTING PLAN	UPDATE
	M730	NEW ANOXIC REACTOR No.1 PLAN	
	M731	NEW ANOXIC REACTOR No.1 SECTIONS	
	M740	NEW NITRIFICATION REACTOR No.2 PLAN	
	M741	NEW NITRIFICATION REACTOR No.2 SECTIONS	
	M750	NEW REACTOR No.3 AND No.4 PLAN	
	M751	NEW REACTOR No.3 AND No.4 SECTIONS	
	M760	NEW PLANT SITE PUMP STATION No.1 PLAN AND SECTIONS	
△	M800	NEW FILTER EQUIPMENT BUILDING AREA PLAN	
	M801	NEW CLARIFIER FLOCC TANK PLAN	
	M802	NEW CLARIFIER FLOCC TANK SECTIONS	
	M803	NEW CLARIFIER FLOCC TANK SECTIONS	
	M804	EXISTING CLARIFIER SECTIONS	
	M805	CLARIFIER NOTES AND DETAILS	

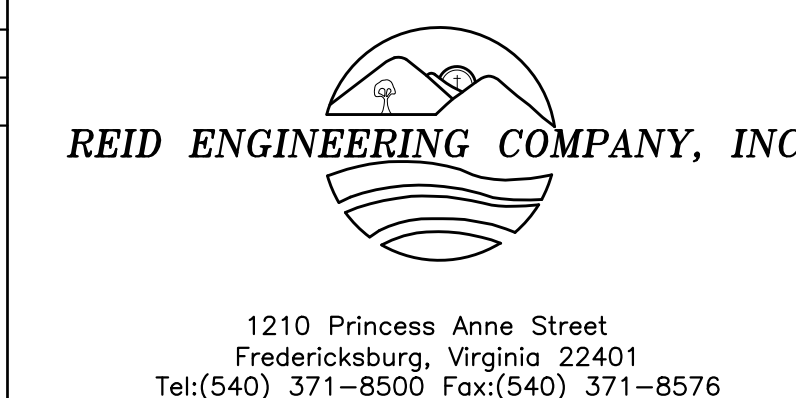
REID ENGINEERING COMPANY-MECHANICAL

△	M810	NEW FILTER EQUIPMENT BUILDING AREA PLAN
△	M820	NEW FILTER EQUIPMENT BUILDING PUMP STATION ENLARGEMENT PLAN
△	M821	NEW FILTER EQUIPMENT BUILDING ENLARGEMENT SUCTION PIPING PLAN
△	M822	NEW FILTER EQUIPMENT BUILDING ENLARGEMENT DISCHARGE PIPING PLAN
	M823	NEW FILTER EQUIPMENT BUILDING PUMP STATION SECTIONS
△	M824	NEW FILTER EQUIPMENT BUILDING PUMP STATION SECTIONS
△	M825	NEW FILTER EQUIPMENT BUILDING PUMP STATION SECTIONS
	M826	NEW FILTER EQUIPMENT BUILDING PUMP STATION SECTIONS
	M830	NEW FILTER EQUIPMENT BUILDING FILTER ENLARGEMENT PLAN
	M831	NEW FILTER EQUIPMENT BUILDING FILTER LOWER ENLARGEMENT PLAN
	M832	NEW FILTER EQUIPMENT BUILDING FILTER UPPER ENLARGEMENT PLAN
	M833	NEW FILTER EQUIPMENT BUILDING FILTER SECTION
	M834	NEW FILTER EQUIPMENT BUILDING FILTER SECTION
	M835	NEW FILTER EQUIPMENT BUILDING FILTER SECTION
	M836	NEW FILTER EQUIPMENT BUILDING FILTER SECTIONS
	M837	NEW FILTER EQUIPMENT BUILDING FILTER SECTIONS
	M840	NEW CHEMICAL NOTES AND DETAILS
	M841	NEW CHEMICAL ROUTING PLAN
	M842	NEW CHEMICAL ROUTING PLAN
	M850	PLANT SITE PUMP STATION No.2 PLANS
	M851	PLANT SITE PUMP STATION No.2 SECTIONS
	M900	EX. DIGESTER No.2 & No.3 TANK AREA PLAN
	M901	NEW TRANSFER PUMP PLANS
	M902	NEW TRANSFER PUMP SECTIONS
△	M910	EX. OXIDATION DITCH AREA PLAN
	M911	EX. OXIDATION DITCH BLOWER BUILDING PLAN
	M912	NEW DIGESTER No.1 EFFLUENT PUMP STATION PLANS
	M913	NEW DIGESTER No.1 EFFLUENT PUMP STATION SECTIONS
	M914	NEW DIGESTER No.1 SECTIONS
	M920	NEW SLUDGE EQUIPMENT BUILDING PLAN
	M921	NEW SLUDGE EQUIPMENT BUILDING LOWER PLAN
	M922	NEW SCREW PRESS INFLUENT PUMP STATION PLAN AND SECTIONS
	M923	NEW SCREW PRESS BUILDING SECTIONS
	M924	NEW SCREW PRESS BUILDING SECTIONS
	M925	NEW SLUDGE EQUIPMENT BUILDING CHEMICAL ROUTING PLAN
	D100	GENERAL NOTES AND DETAILS
	D200	GENERAL PIPING DETAILS



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CHKD BY: JHR

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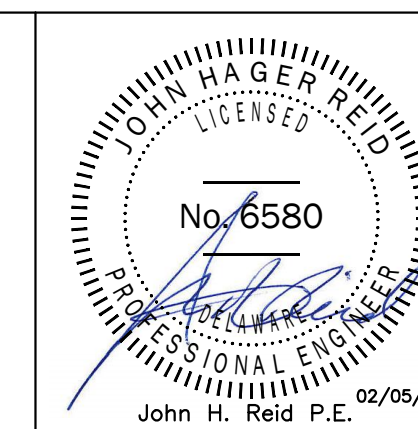
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<i>ELECTRICAL</i> <i>YATES ENGINEERING SERVICES, LTD.</i>		
E100	ELECTRICAL SITE PLAN	UPDATE
E101	MEDIUM VOLTAGE (24.9 KV) POWER PLAN	
E102	MEDIUM VOLTAGE (24.9 KV) DETAILS	
E103	FIBER OPTIC PLAN	UPDATE
E200	SHORT CIRCUIT, ANAEROBIC LAGOON, DIGESTER #2 & #3 POWER	UPDATE
E201	DIGESTER #3 POWER, LIGHTING, AND HVAC POWER PLANS	
E202	DIGESTER #3 CONTROL CONDUIT PLAN	UPDATE
E250	ANAEROBIC LAGOON EFFLUENT PUMP STATION POWER PLAN	DELETE
E300	REACTOR BUILDING, CHEMICAL BUILDING POWER PLAN	
E301	REACTOR BUILDING, CHEMICAL BUILDING LIGHTING PLAN	
E302	REACTOR BUILDING, CHEMICAL BUILDING CONTROL CONDUIT PLAN	
E303	REACTOR BUILDING, CHEMICAL BUILDING HVAC POWER PLAN	
E350	AEROBIC REACTOR #4, ANOXIC REACTOR #3 POWER PLAN	
E351	AEROBIC REACTOR #4, ANOXIC REACTOR #3 CONTROL CONDUIT PLAN	
E400	RAS/FILTER BUILDING POWER PLAN	
E401	RAS/FILTER BUILDING POWER PLAN	
E402	RAS/FILTER BUILDING LIGHTING PLAN, CONTROL CONDUIT PLAN	
E403	RAS/FILTER BUILDING CONTROL CONDUIT PLAN	
E404	RAS/FILTER BUILDING HVAC POWER PLAN	
E450	DIGESTER #1 NORTH POWER PLAN	
E451	DIGESTER #1 SOUTH POWER PLAN	
E500	SLUDGE EQUIPMENT BUILDING POWER PLAN	
E501	SLUDGE EQUIPMENT BUILDING CONTROL CONDUIT PLAN	
E600	ELECTRICAL SCHEDULES	
E601	ELECTRICAL SCHEDULES	
E602	ELECTRICAL SCHEDULES	
E603	ELECTRICAL SCHEDULES	
E604	ELECTRICAL SCHEDULES	
E605	ELECTRICAL SCHEDULES	
E606	ELECTRICAL SCHEDULES	
E607	EQUIPMENT SCHEDULES	UPDATE
E608	EQUIPMENT SCHEDULES	UPDATE
E609	EQUIPMENT SCHEDULES, INSTRUMENTATION SCHEDULE	UPDATE
E650	ELECTRICAL MEDIUM VOLTAGE (24.9KV) RISER DIAGRAM	
E651	ELECTRICAL LOW VOLTAGE RISER DIAGRAMS	
E652	ELECTRICAL LOW VOLTAGE RISER DIAGRAMS	
E653	ELECTRICAL LOW VOLTAGE RISER DIAGRAMS	
E654	GROUNDING PLANS	
E655	GROUNDING PLANS	
E656	GROUNDING PLANS	
E657	FAULT CURRENT ANALYSIS	
E700	ELECTRICAL DETAILS	UPDATE
E701	ELECTRICAL DETAILS	
E702	ELECTRICAL DETAILS	
E703	ELECTRICAL DETAILS	
E704	ELECTRICAL DETAILS	
E705	ELECTRICAL DETAILS	

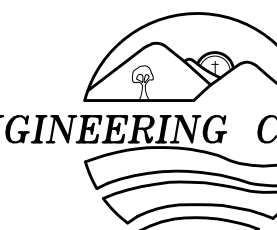
<i>ELECTRICAL (CONT.)</i> <i>YATES ENGINEERING SERVICES, LTD.</i>		
E800	2B-PLC CONTROL I/O PLAN	REPLACE
E801	4-PLC CONTROL I/O PLAN	REPLACE
E802	3-PLC CONTROL I/O PLAN	
E803	2B-PLC CONTROL I/O PLAN	
E804	2A-PLC CONTROL I/O PLAN	
E805	2A-PLC CONTROL I/O PLAN	
E806	2A-PLC 3-REMOTE I/O CONTROL PLAN	
E807	1B-PLC CONTROL I/O PLAN	
E808	CONTROL I/O PLAN	
E809	5-PLC CONTROL I/O PLAN	
E810	AUTOMATION RISER DIAGRAM	
E811	AUTOMATION DETAILS AND NOTES	
E900	ELECTRICAL LEGENDS	

<i>HVAC</i> <i>YATES ENGINEERING SERVICES, LTD.</i>		
EM100	MECHANICAL LEGEND, NOTES, AND SCHEDULES	
EM101	MECHANICAL SITE PLAN	UPDATE
EM200	SHORT CIRCUIT, ANAEROBIC LAGOON, DIGESTER #2 & #3 MECHANICAL PLAN	
EM250	ANAEROBIC LAGOON EFFLUENT PUMP STATION MECHANICAL PLAN	DELETE
EM300	REACTOR BUILDING, CHEMICAL BUILDING - MECHANICAL PLAN	
EM400	RAS/FILTER BUILDING MECHANICAL PLAN	
EM401	UPPER LEVEL RAS/FILTER BUILDING MECHANICAL PLAN	
EM450	RAS/FILTER BUILDING MECHANICAL PLAN	
EM500	SLUDGE EQUIPMENT BUILDING MECHANICAL PLAN	

<i>PLUMBING</i> <i>YATES ENGINEERING SERVICES, LTD.</i>		
P100	PLUMBING LEGEND, NOTES, AND SCHEDULES	
P101	PLUMBING SITE PLAN	UPDATE
P200	SHORT CIRCUIT, ANAEROBIC LAGOON, DIGESTER #2 & #3 PLUMBING PLAN	
P250	ANAEROBIC LAGOON EFFLUENT PUMP STATION PLUMBING PLAN	DELETE
P300	REACTOR BUILDING, CHEMICAL BUILDING - PLUMBING PLAN	
P400	RAS/FILTER BUILDING PLUMBING PLAN	
P401	UPPER LEVEL RAS/FILTER BUILDING PLUMBING PLAN	
P500	SLUDGE EQUIPMENT BUILDING PLUMBING PLAN	
P600	DOMESTIC WATER RISERS 1 THRU 3	
P601	DOMESTIC WATER RISER 4	
P602	DOMESTIC WATER RISERS 5 & 6	
P603	DOMESTIC WATER RISER 7	



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STRUCTURAL
ENGINEERING CONSULTANTS

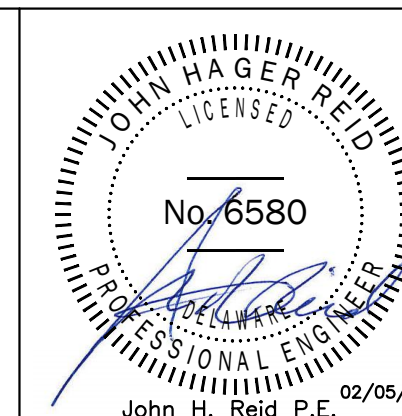
S000	GENERAL NOTES
S001	SPECIAL INSPECTION SCHEDULES
S002	SPECIAL INSPECTION SCHEDULES
S100	STRUCTURAL KEY PLAN UPDATE
S101	NEW REACTOR EQUIPMENT BUILDING FOUNDATION PLAN
S102	NEW REACTOR EQUIPMENT BUILDING ROOF FRAMING PLAN
S103	NEW REACTOR EQUIPMENT BUILDING CATWALK & STAIRS
S110	NEW CHEMICAL EQUIPMENT BUILDING FOUNDATION PLAN
S111	NEW CHEMICAL EQUIPMENT BUILDING ROOF FRAMING PLAN
S120	NEW SLUDGE EQUIPMENT BUILDING FOUNDATION PLAN
S121	NEW SLUDGE EQUIPMENT BUILDING ROOF FRAMING PLAN
S122	AUGER SUPPORT AND ELECTRICAL ROOM CEILING PARTIAL PLANS
S130	NEW TRANSFER PUMP STATION PLANS
S140	NEW 22MG ANAEROBIC LAGOON No.3 PLAN DELETE
S141	NEW ANAEROBIC LAGOON EFFLUENT PUMP STATION PLANS DELETE
S150	NEW RAS/FILTER EQUIPMENT BUILDING FOUNDATION PLAN
S151	NEW RAS/FILTER EQUIPMENT BUILDING FOUNDATION PLAN
S152	NEW RAS/FILTER EQUIPMENT BUILDING INTERMEDIATE LEVEL FOUNDATION PLAN
S153	NEW RAS/FILTER EQUIPMENT BUILDING INTERMEDIATE LEVEL FOUNDATION PLAN
S154	NEW RAS/FILTER EQUIPMENT BUILDING LOWER ROOF FRAMING PLAN
S155	NEW RAS/FILTER EQUIPMENT BUILDING HIGHER ROOF FRAMING PLAN
S156	NEW RAS/FILTER EQUIPMENT BUILDING SECTIONS
S157	NEW RAS/FILTER EQUIPMENT BUILDING SECTIONS
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S159	NEW RAS/FILTER EQUIPMENT BUILDING SECTIONS
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S171	NEW DIGESTER No.1 EXISTING PUMP STATION
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S181	EXISTING WAS AEROBIC DIGESTER FRAMING DETAILS
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S202	TYPICAL FOUNDATION DETAILS
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