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<u>Date</u>	Spec.	<u>Title</u>	<u>Pg.</u>	<u>Error/Problem</u>	Revision/Solution	<u>Notes</u>	Ву	<u>Date Updated</u>			
Standard Details											
11/22/2024	LP-2	Simplex Grinder Pump Station - Side View	N/A	Pump Offn/On/Alarm do no have distances	Added distances for Pump Off/On/Alarm		JH	11/27/2024			
12/6/2024	LP-4	Typical Residential Grinder Pump Station Locaiton	N/A	No maximum distance from structure for grinder pump tank	Added "10' Max." to "5' Min." note for distance from structure.		JH	12/6/2024			
11/22/2024	LP-6	LPS End Of Line Clean-Out	N/A	Vertical C/O size not noted	Added Note 3 and callout for "Vertical Standpipe"		JH	11/27/2024			
11/22/2024	LP-7	LPS In-Line Clean-Out	N/A	Vertical C/O size not noted	Added Note 3 and callouts for "Vertical Standpipe"		JH	11/27/2024			
11/22/2024	PS-B1	Precast Building Plan	N/A	Blockout position not noted	Added Note 6		JH	11/27/2024			
11/14/2024	PCP-2A	Pump Control Panel Schematic 480V 3 PH Service	N/A	Incorrect AMP and Model # for HVAC	Changed AMP from 20 to 25 and Model # from #W12AB-A03 to #W12AF-A03		JH	11/27/2024			
11/14/2024 11/14/2024	PCP-2B PCP-2C	Pump Control Panel Schematic 120/208V 3 PH Service Pump Control Panel Schematic 120/240V 3 PH Service	N/A N/A	Incorrect AMP and Model # for HVAC Incorrect AMP and Model # for HVAC	Changed AMP from 20 to 25 and Model # from #W12AB-A03 to #W12AF-A03 Changed AMP from 20 to 25 and Model # from #W12AB-A03 to #W12AF-A03		JH JH	11/27/2024 11/27/2024			
11/22/2024	PS-C2	Wet Well - Valve Vault Plan	N/A	Valve vault size clairification needed	Valve Vault has been enlarged to have 12" clearance on all 4 sides		JH	11/27/2024			
11/22/2024	PS-C3	Wet Well - Valve Vault Section	N/A	Clairification needed	Added callout "Shall be one piece, flange to flange. Flange adapter will not be acceptable."		JH	11/27/2024			
12/18/2024	PS-C6	Generator Pad and Bollard Details	N/A	Note needs updating	Updated Note "3" from "Supply maintenance platform if generator maintenance doors are higher than 30 inches above generator pad." to "Maintenance platforms shall be installed when the midline height of the generator		JH	12/19/2024			
11/22/2024	PS-C8	Decorative Security Fence Detail	N/A	No gate stopping mechanism	breaker exceeds 6.5ft above the ground or floor, in accordance with NEC 110.26." Added gate stopping mechanism and callout "Gate Stopping Mechanism"		JH	11/27/2024			
11/22/2024	PS-C9	Chainlink Security Fence Detail	N/A	No gate stopping mechanism	Added callout "Gate Stopping Mechanism"		JH	11/27/2024			
		,	,		Added note "2. Pump stations that require docking stations shall include a separate, dedicated load-bank						
12/18/2024	PS-E11	Portable Generator Connector Schedule		Missing note	connection point to facilitate initial and annual load bank testing."		JH	12/19/2024			
12/6/2024	S-7	Air/Vacuum and Air Release Combination Valve Section	N/A	Clairification and missing note	Added callout "DIP" for pipe. Added note "7. ARV manhole structure shall be polymer concrete.".	<u> </u>	JH	11/27/2024			
12/11/2024	S-9	Sewer Service Connection-Short-Side	N/A	Missing note	Added note "7. No flexible couplings shall be used."		JH	12/11/2024			
12/11/2024	S-10	Sewer Service Connection-Long-Side	N/A	Missing note	Added note "6. No flexible couplings shall be used."		JH	12/11/2024			
12/11/2024 12/11/2024	S-11 S-12	Sewer Service Connection-Typical Main to Lateral (Less than 8' Deep) Sewer Service Connection - Main to Lateral (Greater Than 8' Deep)	N/A N/A	Missing note	Added note "3. No flexible couplings shall be used."		JH JH	12/11/2024 12/11/2024			
12/11/2024	5-12	Sewer Service Connection - Main to Lateral (Greater Than 8 Deep)	N/A	Missing note	Added note "5. No flexible couplings shall be used." Callout at top of page was updated from "Meter setter with stainless steel stiffeners" to "Meter setter" and added		JH	12/11/2024			
12/11/2024	W-1	Single Water Service Connection - Short-Side	N/A	Callout needs updating and notes added	note "8. Plastic pipe stiffeners shall be used." Callout at top of page was updated from "Meter setter with stainless steel stiffeners" to "Meter setter" and added		JH	12/11/2024			
12/11/2024	W-2	Single Water Service Connection - Long-Side	N/A	Callout needs updating and notes added	note "8. Plastic pipe stiffeners shall be used."		JH	12/11/2024			
12/11/2024	W-5	Double Water Service-Domestic and Irrigation	N/A	Note needs added	Added note "8. Plastic pipe stiffeners shall be used."		JH	12/11/2024			
12/11/2024	W-6	Double Water Service-Domestic and Irrigation Using Subtract Meter	N/A	Note needs added	Added note "5. Plastic pipe stiffeners shall be used." Callout "U-branch w/ stainless steel stiffeners" was updated to "U-branch w/ meter setters" and added note "11.		JH	12/11/2024			
12/11/2024	W-14	Gang Meter	N/A	Callout needs updating and notes added	Plastic pipe stiffeners shall be used."		JH	12/11/2024			
12/11/2024	W-15	Single Domestic Water Service Gang Meter	N/A	Callout needs updating and notes added	Callout "W/ stainless steel stiffeners" was updated to "Meter setter" and added note "11. Plastic pipe stiffeners shall be used."		JH	12/11/2024			
12/11/2024	WS-10	Pressure Main Ditch and Storm Drain Ditch Crossing-DIP	N/A	Note needs updating	Updated Note "3" from "At the EOR and CFPUA's discretion, install casing pipe (per WS-8 at the crossing. The casing will need to extend a minimum of 2' past the outside wall of the storm drain." to "For open ditch crossings, install casing pipe (per WS-8 at the crossing. The casing will need to extend a minimum of 2' past the outside wall of the storm drain."		JH	12/11/2024			
12/11/2024	WS-11	Pressure Main and Storm Drain Crossing-HDPE	N/A	Main sizes do not need to be called out	Callout in upper left corner was updated from "12" or smaller PVC or DIP water or force main" to "PVC or DIP water or force main"		JH	12/11/2024			
12/11/2024	WS-14	Standard Notes	N/A	Needs to be updated	Deleted all previous notes and replaced with "1. All individuals engaged in CFPUA projects must adhere to the CFPUA technical standards, which encompass specifications, standard details, the design guide manual, and the material specification manual. These documents provide essential requirements for materials, construction methods, and design principles. An understanding of the above-mentioned resources is required to avoid non-compliance issues." and "2. Attention: Comply with notes on applicable details."		JH	12/11/2024			
				Material Specificat	ion Manual						
11/22/2024	MSM A	A 4 - PVC Pipe (2" and 3" SDR 21)	7	"NAPCO" changed names	Changed name to "Westlake Pipe & Fittings"		JH	12/5/2024			
11/22/2024	MSM A	A 5 -PVC Pipe (AWWA C-900) - Potable Water (4" thru 24")	8	"NAPCO" changed names	Changed name to "Westlake Pipe & Fittings"		JH	12/5/2024			
11/22/2024	MSM A MSM D	A 5.1 -PVC Pipe (AWWA C-900) - Sewer (4" thru 24")	9	"NAPCO" changed names	Changed name to "Westlake Pipe & Fittings" Added "D.1.6. Valves Direct Pure Sever Force Main Escentric Plus / 14" thru 24" (MLX MI)"		JH	12/5/2024			
11/22/2024 11/22/2024	MSM D MSM D	Section D: Valves and Accessories D 1.3 - Valves - Resilient Seat / 2" thru 12" (FLG X FLG)	1 5	Restriction missing	Added "D 1.6 - Valves - Direct Bury Sewer Force Main Eccentric Plug/ 14" thru 24" (MJ X MJ)" Added "Shall not be used in direct bury applications" to "Restrictions"		JH JH	12/5/2024 12/5/2024			
11/22/2024	MSM D	D 1.4 - Valves - Resilient Seat/ 14" thru 48" (MJ X MJ)	6	•	Added "For Sewer Force Main Installations 14" through 24" See MSM D 1.6" to "Restrictions". Removed additional requirement "Valves shall be installed vertical when used in raw sewer or sludge applications."		JH	12/5/2024			
11/22/2024	MSM D	D 1.6 - Valves - Direct Bury Sewer Force Main Eccentric Plug/ 14" thru 24" (MJ X MJ)	7		Added sheet "D 1.6 - Valves - Direct Bury Sewer Force Main Eccentric Plug/ 14" thru 24" (MJ X MJ)"		JH	12/5/2024			
11/22/2024	MSM E	E 1 - Fire Hydrants	3	Incorrect inlet connection type	Changed inlet connection type from "flanged" to "MJ"		JH	12/5/2024			
11/22/2024	MSM F	F 2.1 - Tap Sleeves 4" thru 12", Mechanical Joint Connection/ Fabricated Stainless Steel	6	mest connection type	Added "HDPE" to "Design" section. Added "HDPE tapping sleeve shall be wrapped in fabric prior to backfilling." to "Restrictions" section. Added "Romac SST-H (HPDE)" to "Manufacturer" section.		JH	12/5/2024			
11/22/2024	MSM M	M 7 - Polymorphic Resin Liner System / Sanitary Sewer	11	No "Warranty Responsibilities" Section	Added "Warranty Responsibilities" section. Added "Sherwin Williams Dura-Plate 6000" to "Manufacturer" section.		JH	12/6/2024			
11/22/2024	MSM O	O 6 - Precast Manholes	4	"Cape Fear Precast" changed names	Changed name to "Alcrete"		JH	12/6/2024			
11/22/2024	MSM O	O 6.1 - Precast Wet Well	5	"Cape Fear Precast" changed names	Changed name to "Alcrete"						
11/22/2024	MSM O	O 6.2 - Precast Vaults	6	Changed name to "Alcrete"	Changed name to "Alcrete"						
11/22/2024	MSM O	O 6.3 - Polymer Concrete Manholes	7	Missing notes in "Specification" section	Added notes "Manholes greater than 12' in depth shall be 5' in diameter.", "All joint seams shall utilize gasket and mastic joint sealant rope.", and "Exterior manhole seams shall utilize exterior wrap or manufacturers grout product." to "Specification" section.		JH	12/6/2024			

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	<u>Date</u>	Spec.	<u>Title</u>	Pg.	<u>Error/Problem</u>	Revision/Solution	<u>Notes</u>		Date Updated			
1975 1975	Technical Specifications											
1,000,000 1,00	11/26/2024	26 29 15	Pump Control Panels	1	Clarification as to acceptable level sensing	Added "or alternatively ultrasonic or radar systems" to Section "C.1.a".		JH	12/6/2024			
April	11/26/2024	26 29 15	Pump Control Panels	2	Too many scenarios that trigger alarms	Removed sub-sections "1.b" through "1.e" in Section "E. Alarm horns and lights" sub-section "1. Activated by:"		JH	12/6/2024			
1.000,000 1.00	11/26/2024	26 29 15	Pump Control Panels	6	No verbiage if specialized equipment is needed			JH	12/6/2024			
April	11/26/2024	26 29 15	Pump Control Panels	7	No sub-section for non submersible pumps	,		JH	12/6/2024			
1995 1995	11/26/2024		Pump Control Panels	8	rotataing assembly	Added sub-section "E" to Section "2.4 Spare Parts"		JH	12/6/2024			
14-10-10-10-10-10-10-10-10-10-10-10-10-10-			'		ÿ , i			_				
1457/2004 2013.13 3 mode Genetics 2 mode				6	Manufacturer's Service Contract does not align							
1			·	21	Maintenance Service Contract does not align with	Changed Maintenance Service contract from "Quarterly" to Semi-Annually" in Section 3.7 Sub-section B.1 to		JH	12/6/2024			
1,000,000 1,000		32 31 00	Chain Link Fencing	3	Lacking verbiage for stopping mechanism for			JH	12/6/2024			
## Process Court System & 190 32 Process Search System & 190 52 Process Search System & 190 52	11/25/2024	32 31 19	Decorative Fencing	4	Lacking verbiage for stopping mechanism for	Added "6. Gates shall include a stopping mechanism per CFPUA Standard Details." to Section 2.3		JH	12/6/2024			
1974/2004 39 22 17 Compression expression and inselected Gorden Pump States - Compression of Mode Section and Procession (Compression of Mode Section and Procession (Compression of Mode Section and Procession and Pro								III				
Company Comp			·	,								
12/13/2028 N/A II. Water Facilities Design Criteria - A. Water Distribution - E. Yaser, Distribution - P. Yaser, Distribution - E. Yaser, Distribution - P. Yaser, Distribu	11/26/2024	33 32 17	Low Pressure Sewer Systems and Rsidential Grinder Pump Stations		Omission of MSM Sections and misspelling			JH	12/6/2024			
Water particulars Design Cities - A. Water Design Cities - A. Water Design Cities - A. Collection and Force Main Systems - S. Constitution of the Collection and Company of the Collection and Collection Collection Collection Collection Collection Collection Collection Collec					Design Guidance	Manual						
12/3/2024 N/A III. Watewater Facilities Design Citeries A. Water Distriction is former to incomment to polated in the control of the control	12/11/2024	N/A	II. Water Facilities Design Criteria - A. Water Distribution - 2. Pipe Design - g. Service Taps	7	Missing bullet from detail							
Most information need concerning the technical purposed surface of the suppression of the control of the suppression of the control of the co	6/14/2024	N/A	, , ,	9	No verbiage where valves should not be placed	downstream valve can be installed along the main in lieu of a valve on the tee." under sub-section "b. Generally,		JH	12/6/2024			
## 179/2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 2. Site Considerations - 2. More information need concerning the ethnical pump patients and subject for the pump stations are set of subject for the pump stations and subject for the pump stations are set of subject for the pump stations are set subject for the pump stations are set subject for the pump stations are set of subject for the pump stations are set subject for the pump stations are set su	12/11/2024	N/A	, , , , , , , , , , , , , , , , , , , ,	13	Missing bullet from detail							
Comparison of	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - A. Collection and Force Main Systems - 3. Force Mains - g.	13	No verbiage for private force mains	- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		JH	12/6/2024			
S/14/2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 1. General - h. 18 More information need concerning the technical pumps and maximum capacity possible without changes to sub-section "h". 12/6/2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 6. Site Considerations - a. 20 More information need concerning accessing pumps and maximum capacity possible without changes to wet with changes to solid through printing of pumps and maximum capacity possible without changes to wet with changes to wet with changes to wet with changes to well through printing or public right changes to sub-section "h".	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - A. Collection and Force Main Systems - 5. Manholes - j.	15	Change in coating specifications	receive force main discharges, when manhole is the first manhole upstream of a pump station's wet well, and elsewhere as required. Polymer concrete manhole inserts may be required as directed by CFPUA. These inserts shall be provided with a minimum 50-year warranty." to "Install polymer concrete manholes in applications involving force main discharges and in other designated locations as specified by CFPUA. These manholes shall come with a minimum warranty of 50 years. Grinder pump force mains and low-capacity force main discharge		JH	12/6/2024			
pump station site Seplaced sub-section S	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - B. Pumping Stations - 1. General - h.	18	g .	for incremental capacity increases including, but not limited to, changes to shims, impellors, pumps and maximum capacity possible without changes to wet well or major electrical		JH	12/6/2024			
Fig. 2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 9. Protection of Electrcal Panels and Controls - a. 21 Three Phase power is required Feasible, variable frequency drives may be installed as an alternative with CFPUA approval." to "Three-phase power." 12/6/2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 9. Protection of Electrcal Panels and Controls - a. 21 HVAC units are not stainless steel Added "If requirement, the HVAC unit shall be stainless steel. The use of cooper coils, lines, fittings, etc. is prohibited." to sub-section "a." first bullet. JH 12/6/2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 9. Protection of Electrcal Panels and Controls - a. 21 HVAC units are not stainless steel Added "HVAC units shall be stainless steel. The use of cooper coils, lines, fittings, etc. is prohibited." to sub-section "a." first bullet. JH 12/6/2024 N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - e. 24 Clairfication needed Clairfication needed Replaced sub-section "e." from "Provide valves, meeting the requirements of the CFPUA Standard Details within the designated pump station and valve vaults, ensuring efficient operation and accessibility for maintenance." JH 12/6/2024 N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g. 24 Needs updated to reflect updated Technical Specification Replaced last sentence of sub-section "g." from "If a connection is made to an existing or new manhole, the manhole shall be polymer concrete or coated per Section is 33 05 13 - Precast Concrete Manholes and Utility Structures." JH 12/6/2024 12/6/2024 N/A Plan Review Checklist Needs updated to reflect updated Technical Needs updated to reflec	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - B. Pumping Stations - 6. Site Considerations - a.	20		, , , , , , , , , , , , , , , , , , , ,		JH	12/6/2024			
N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 9. Protection of Electrcal Panels and Controls - a.	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - B. Pumping Stations - 8. Electrcal - g.	21	Three Phase power is required	feasible, variable frequency drives may be installed as an alternative with CFPUA approval." to "Three-phase		JH	12/6/2024			
6/14/2024 N/A III. Wastewater Facilities Design Criteria - B. Pumping Stations - 9. Protection of Electrcal Panels and Controls - a. 1 HVAC units are not stainless steel 1 HVAC units are not stainless steel. The use of copper coils, lines, fittings, etc. is prohibited. To sub-section "a." second bullet. 1 III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - e. 2 I HVAC units are not stainless steel 3 Added "HVAC unit shall be stainless steel. The use of copper coils, lines, fittings, etc. is prohibited." to sub-section "a." second bullet. 4 Replaced sub-section "e." from "Provide valves, meeting the requirements of the CFPUA Materials Specifications Manual, inside pump station and valve valves, the use of copper coils, lines, fittings, etc. is prohibited. To sub-section "a." second bullet. 5 HVAC units are not stainless steel 6 HVAC units are not stainless steel. 6 HVAC units are not stainless steel. The use of copper coils, lines, fittings, etc. is prohibited. To sub-section "a." second bullet. 6 HVAC units and units and units are not stainless steel. 6 HVAC units are not stainless steel. 6 HVAC units and lost is prohibited. To sub-section "a." second bullet. 6 HVAC units and units and units and units are not stainless steel. 6 HVAC units and units and units and units and units are not stainless steel. 6 HVAC units and units and units and units stainless steel. The use of copper coils, lines, fittings, etc. is prohibited. To sub-section "a." second bullet. 8 HVAC units and units	6/14/2024	N/A		21	HVAC units are not stainless steel	Added "If required, the HVAC unit shall be stainless steel.		JH	12/6/2024			
N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - e. 124 Clairification needed Manual, inside pump station and valve vaults." to "Furnish and install valves that meet the specifications outlined in the CFPUA Materials Specifications Manual. These valves shall be positioned per CFPUA Standard Details within the designated pump station and valve vaults, ensuring efficient operation and accessibility for maintenance." N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g. 124 Needs updated to reflect updated Technical Specification Needs updated to reflect updated Technical Specification N/A Plan Review Checklist	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - B. Pumping Stations - 9. Protection of Electrcal Panels	21	HVAC units are not stainless steel	Added "HVAC unit shall be stainless steel. The use of copper coils, lines,		JH	12/6/2024			
N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g. N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g. N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g. N/A III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g. N/A Specification Needs updated to reflect updated Technical Specification Needs updated to reflect updated Technical Specification Needs updated to reflect updated Technical Updated requirements N/A Plan Review Checklist N/A Plan Review Checklist Needs updated to reflect updated Technical Updated requirements N/A Updated requirements	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - e.	24	Clairification needed	Manual, inside pump station and valve vaults." to "Furnish and install valves that meet the specifications outlined in the CFPUA Materials Specifications Manual. These valves shall be positioned per CFPUA Standard Details within		JH	12/6/2024			
12/6/2024 N/A Plan Review Checklist Needs updated to reflect updated Technical Updated requirements BI 12/13/2024	6/14/2024	N/A	III. Wastewater Facilities Design Criteria - C. Low Pressure Sewer Systems - 4. Force Mains - g.	24	Specification	manhole shall be lined per Section 33 05 13 - Precast Concrete Manholes and Utility Structures." to "If a connection is made to an existing or new manhole, the manhole shall be polymer concrete or coated per Section 33 05 13 - Precast Concrete Manholes and Utility Structures.".		JH	12/6/2024			
17/67/074 1 N/A 1 Undated requirements 1 H I I I I I I I I I I I I I I I I I I						ecklist						
	12/6/2024	N/A	Plan Review Checklist			Updated requirements		ВЈ	12/13/2024			