CITY OF ATLANTA DEPARTMENT OF WATERSHED MANAGEMENT Water Supply Program **RIVER INTAKE PUMP STATION**



LOCATION MAP NTS

VOLUME 3 OF 4 PROJECT PLANS (ISSUED FOR BIDDING) FOR WATER SUPPLY PROGRAM **RIVER INTAKE PUMP STATION**

NOVEMBER 26, 2019 DEPARTMENT OF WATERSHED MANAGEMENT COMMISSIONER **KISHIA L. POWELL**



VICINITY MAP NTS



NTS



DRAWING INDEX

DRAWING NO.	DRAWING TIT
G-000 - G-004	GENERAL SHEE
D0-001	HYDRAULIC PR
C1-001 - EC-014	CIVIL AND ERO
TRP-1 - TRP-5	TREE RECOMPI
DP0-001 - DS2-007	PROCESS
LS-111 - A6-101	ARCHITECTUR
M1-101 - M7-001	MECHANICAL
S-001 - S-302	STRUCTURAL
E5-000 - PID-6	ELECTRICAL IN





RIVER INTAKE PUMP STATION 2566 RIDGEWOOD ROAD NW, **ATLANTA, GA 30318 FULTON COUNTY**

ΓLE ETS ROFILE **DSION CONTROLS** PENSE PLAN

RAL

NSTRUMENTATION AND CONTROL



DWG #	SHEET NAME	DWG #	SHEET NAME	DWG #	SHEET NAME	DWG #	SHEET NAME	DWG #	SHEET NAME	
	01 - GENERAL SHEETS							-	(CONTINUED)	
RI-PS G-001		RLPS FC-004		RI-PS_DS2-002		RI-PS S-132		RI-PS_E6-203	PANELBOARD SCHEDU	JLES
RI-PS G-002		RI-PS_EC-005		RI-PS_DS2-004		RI-PS S-133		_	ELECTRICAL - LOW VOL	_TAGE
RI-FS_G-002		RI-FS_EC-005				PLPS \$ 134		RI-PS_E7-101	ELECTRICAL LEGEND AND) NOTES
RI-PS_G-003		RI-PS_EC-000		RI-P3_D32-003		RI-F3_3-134		RI-PS_E7-102	ELECTRICAL - SITE P	LAN
RI-PS_G-004	GENERAL NOTES	RI-PS_EC-007		RI-PS_DS2-000		RI-PS_5-141		RI-PS_E7-103	ELECTRICAL BUILDING - LIGH	ITING PLAN
		RI-PS_EC-008		RI-PS_DS2-007	YARD PIPING - SECTIONS	RI-PS_5-142		RI-PS_E7-104	ELECTRICAL BUILDING - PO	WER PLAN
		RI-PS_EC-009				RI-PS_5-151	ELECTRICAL BUILDING - FOUNDATION PLAN	RI-PS_E7-105	ELECTRICAL BUILDING - SYS	TEMS PLAN
		RI-PS_EC-010	SCANNED DOCUMENTS SHEET			RI-PS_S-152	ELECTRICAL BUILDING - ROOF FRAMING PLAN	RI-PS_E7-106	METER VAULT - LIGHTIN	G PLAN
	02 - HYDRAULIC PROFILE	RI-PS_EC-011	STANDARD DETAILS		06 - ARCHITECTURAL	RI-PS_S-201	FOUNDATION DETAILS	RI-PS_E7-107	METER VAULT - POWER	(PLAN
RI-PS_D0-001	HYDRAULIC PROFILE	RI-PS_EC-012	STANDARD DETAILS	RI-PS_LS-111	LIFE SAFETY FLOOR PLAN	RI-PS_S-301	FRAMING DETAILS	RI-PS_E7-108	PUMP STATION - SYSTEMS & LI	GHTING PLAN
		RI-PS_EC-013	STANDARD DETAILS - VEGETATIVE	RI-PS_A1-111	ELECTRICAL BUILDING - ARCHITECTURAL FLOOR PLAN	RI-PS_S-302	FRAMING DETAILS	RI-PS_E7-109	PUMP STATION - POWER	R PLAN
		RI-PS_EC-014	STANDARD DETAILS - VEGETATIVE	RI-PS_A1-112	ELECTRICAL BUILDING - ROOF PLAN			RI-PS_E7-110	VALVE VAULT - LIGHTING	 G PLAN
	03 - CIVIL			RI-PS_A1-113	ELECTRICAL BUILDING - FOUNDATION DRAINAGE PLAN			RI-PS_E7-111	VALVE VAULT - POWER	
RI-PS_C1-001	OVERALL SITE PLAN - RIVER INTAKE			RI-PS_A1-211	ELECTRICAL BUILDING - REFLECTED CEILING PLAN		09 - ELECTRICAL, INSTRUMENTATION & CONTROL		INSTRUMENTATIO	N
RI-PS_C1-002	OVERALL SITE PLAN - CHATTAHOOCHEE COMPLEX		04 - TREE RECOMPENSE	RI-PS_A2-121	ELECTRICAL BUILDING - BUILDING ELEVATIONS		ELECTRICAL - MEDIUM VOLTAGE	RI-PS EG-001	INSTALLATION DETA	JLS
RI-PS_C1-003	SURVEY CONTROL - RIVER INTAKE	RI-PS_TRP-1	TREE RECOMPENSE PLAN	RI-PS_A3-101	ELECTRICAL BUILDING - BUILDING SECTIONS	RI-PS_E5-000	ELECTRICAL LEGEND AND NOTES	 	INSTALLATION DETA	JLS
RI-PS_C1-004	SURVEY CONTROL - CHATTAHOOCHEE COMPLEX	RI-PS_TRP-2	TREE RECOMPENSE PLAN	RI-PS_A3-211	ELECTRICAL BUILDING - WALL SECTIONS	RI-PS_E5-001	DUCTBANK SECTIONS	RI-PS EG-003	INSTALLATION DETA	
RI-PS_C1-005	SURVEY CONTROL PLAN	RI-PS_TRP-3	TREE RECOMPENSE PLAN	RI-PS_A5-111	ELECTRICAL BUILDING - SECTION DETAILS	RI-PS_E5-002	MATERIAL RATING SCHEDULE		INSTALLATION DETA	JLS
	CIVIL (RIVER INTAKE)	RI-PS_TRP-4	TREE RECOMPENSE PLAN	RI-PS_A5-112	ELECTRICAL BUILDING - SECTION DETAILS	RI-PS_E5-010	SITE DEMOLITION PLAN	 	INSTRUMENTATION INSTALLAT	
RI-PS_C1-006	EXISTING CONDITIONS	RI-PS_TRP-5	TREE REPLACEMENT DETAILS	RI-PS_A5-211	ELECTRICAL BUILDING - EXTERIOR PLAN DETAILS	RI-PS_E5-100	OVERALL ELECTRICAL SITE PLAN	 	INSTRUMENTATION INSTALLAT	
RI-PS_C1-007	SITE DEMOLITION PLAN			RI-PS_A6-101	ELECTRICAL BUILDING DOOR SCHEDULE, ELEVATIONS &	RI-PS_E5-101	EXISTING PEACHTREE PS ELECTRICAL SITE PLAN	 	SCHEMATIC DIAGRA	MS
RI-PS_C1-008	PROPOSED SITE PLAN				DETAILS	RI-PS_E5-110	ELECTRICAL SITE PLAN	 	SCHEMATIC DIAGRA	
RI-PS_C1-009	GRADING AND DRAINAGE PLAN		05 - PROCESS			RI-PS_E5-111	ELECTRICAL ROOM LAYOUT	 	SCHEMATIC DIAGRA	
RI-PS_C1-010	PROPOSED UTILITY PLAN (OMITTED)	RI-PS_DP0-001	RIVER INTAKE - PROCESS FLOW DIAGRAM			RI-PS_E5-112	FINE SCREENS AND WETWELL ELECTRICAL SITE PLAN	 RI-PS_EI-004	SCHEMATIC DIAGRA	MS
	CIVIL (CHATTAHOOCHEE COMPLEX)		CHATTAHOOCHEE COMPLEX - PROCESS FLOW			RI-PS_E5-113	METER VAULT ELECTRICAL PLAN	RI-PS_FI-005		MS
RI-PS_C1-011	EXISTING CONDITIONS	KI-F3_DF0-002	DIAGRAM			- RI-PS_E5-114	RIPS DROP SHAFT ELECTRICAL SITE PLAN	RI-PS_EI-006		
RI-PS_C1-012	SITE DEMOLITION PLAN	RI-PS_DP1-001	PUMP STATION PLAN	RI-PS_M1-102		RI-PS_E5-115	VALVE VAULT ELECTRICAL PLAN			
RI-PS_C1-013	PROPOSED SITE PLAN	RI-PS_DP2-001	PUMP STATION SECTION	RI-PS_MIT-103		RI-PS_E5-201	PUMPS AREA EQUIPMENT GROUNDING PLAN			
RI-PS_C1-014	PROPOSED UTILITY PLAN (OMITTED)	RI-PS_DP2-002	PUMP STATION SECTION			RI-PS_E5-202	ELECTRICAL ROOM EQUIPMENT GROUNDING PLAN			
RI-PS_C2-001	PRE-CONSTRUCTION DRAINAGE MAP	RI-PS_DP2-003	PUMP STATION SECTION	RI-PS_W7-001	NOTES, LEGENDS, ABBREVIATIONS, AND SCHEDULES	RI-PS_E5-203	METER VAULT GROUNDING PLAN		SCHEMATICS	
RI-PS_C2-002	POST-CONSTRUCTION DRAINAGE MAP	RI-PS_DP2-004	PUMP STATION SECTION			RI-PS_E5-210	GROUNDING SYMBOLS NOTES AND DETAILS	RI-PS_EI-011	SCHEMATICS	
RI-PS_C3-001	DRIVEWAY CONSTRUCTION PROFILES		YARD PIPING (RIVER INTAKE)			RI-PS_E5-211	GROUNDING INSTALLATION DETAILS	RI-PS E.I-101		
RI-PS_C3-002	STORM DRAINAGE & CREEK CROSSING PROFILES	RI-PS_DS1-001	YARD PIPING PLAN AND PROFILE			RI-PS_E5-212	GROUNDING - INSTALLATION DETAILS			
RI-PS_C3-003	RETAINING WALL CONSTRUCTION PROFILES	RI-PS_DS1-002	YARD PIPING PLAN AND PROFILE	RI-PS_S-001	GENERAL NOTES AND ABBREVIATIONS	RI-PS_E5-213	GROUNDING - INSTALLATION DETAILS			
RI-PS_C4-001	STANDARD DETAILS	RI-PS_DS1-003	YARD PIPING DETAILS	RI-PS_3-002		RI-PS_E5-214	GROUNDING - INSTALLATION DETAILS			
RI-PS_C4-002	STANDARD DETAILS	RI-PS_DS1-004	TUNNEL SHAFT TRANSITION BOX	RI-PS_S-003	SPECIAL INSPECTIONS	RI-PS_E5-215	GROUNDING - INSTALLATION DETAILS			
RI-PS_C4-003	STANDARD DETAILS	RI-PS_DS1-005	METER VAULT PLAN	RI-PS_S-004	TYPICAL DETAILS	RI-PS_E5-216	GROUNDING - INSTALLATION DETAILS			
RI-PS_C4-004	STANDARD DETAILS	RI-PS_DS1-006	METER VAULT SECTION	KI-PS_S-005	TYPICAL DETAILS	RI-PS_E5-217	GROUNDING - INSTALLATION DETAILS		PROCESS P&ID'S LUBE AND SEAL	VVAIER SYSIEM
RI-PS_C4-005	STANDARD DETAILS	RI-PS_DS1-007	METER VAULT SECTION	RI-PS_S-111	PUMP STATION - FOUNDATION PLAN	RI-PS_E5-218	GROUNDING - INSTALLATION DETAILS		PROCESS P&ID'S FLOW CONTRO	
RI-PS_C4-006	RETAINING WALL STANDARD DETAILS		YARD PIPING (CHATTAHOOCHEE COMPLEX)	RI-PS_S-112	PUMP STATION - FRAMING PLAN	RI-PS_E5-219	GROUNDING - INSTALLATION DETAILS	1		
 RI-PS C4-007	RETAINING WALL STANDARD DETAILS	RI-PS DS1-008A		RI-PS_S-113	PUMP STATION - CRANE FRAMING PLAN	RI-PS E6-101	ONE LINE DIAGRAM - EXISTING MV SWITCHGEAR	-		
 RI-PS C5-001	TYPICAL PAVEMENT SECTIONS			RI-PS_S-114	PUMP STATION - BUILDING SECTIONS	RI-PS E6-102	ONE LINE DIAGRAM - SWITCHGEAR RSG	-		
	EROSION & SEDIMENT CONTROL	RI-F3_D31-008	YARD PIPING PLAN AND PROFILE	RI-PS_S-115	PUMP STATION - BUILDING SECTIONS	RI-PS E6-103	ONE LINE DIAGRAM - SWITCHGEAR RSG	_		
RI-PS_EC-000	COVER SHEET			RI-PS_S-116	PUMP STATION - BUILDING SECTIONS	RI-PS_E6-104	ONE LINE DIAGRAM - SWITCHGEAR RSG	-		
	EROSION CONTROL (RIVER INTAKE)			RI-PS_S-117	PUMP STATION - BUILDING SECTIONS	RI-PS_E6-105	ONE LINE DIAGRAM - LOW VOLTAGE SWBD-RPS	-		
RI-PS_EC-001	PHASE 1 PLAN			RI-PS_S-118	PUMP STATION - BUILDING SECTIONS	RI-PS_E6-106	ONE LINE DIAGRAM	-		
RI-PS_EC-002	PHASE 2 PLAN			RI-PS_S-121	TUNNEL SHAFT TRANSITION BOX - PLANS	RI-PS_E6-201	PANELBOARD SCHEDULES	-		
RI-PS_EC-003	PHASE 3 PLAN	KI-F3_D32-001	PROCESS - DETAILS	RI-PS_S-122	TUNNEL SHAFT TRANSITION BOX - SECTIONS	RI-PS_E6-202	PANELBOARD SCHEDULES	-		
				No.	Description Date STAMP			┘ F ATLANTA DEPT. (OF WATERSHED MANAGEMENT	DRAWING NO.
			SSU2GAN		E ORG		PROJECT NO: TASK_13	WATER SUP	PLY PROGRAM	
		*			CGISTER	BGI 6 CONCOUR	RZ-JV RSE PARKWAY DESIGNED BY: A.T. R		E PUMP STATION	RI-PS
						SUIT	L 1600 DRAWN BY: J.J. A, GA 30328 CHECKED BY: C.A.			_
			Contraction of the second s		ENGINEER	(770) 569 FAX: (770	9-7038 x101 G.A. D) 993-5082 DATE: 09/27/19			G-001
BLACK &	VEATCH • GRESHAM SMITH • RIVER T	Ο ΤΑΡ	R		CORGE ALL		SCALE: NONE			SHEET OF
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TASK_13	
A.T.	
J.J.	
G.A.	
09/27/19	
NONE	

А	AMMETER, AMPERES
AB	ANCHOR BOLT
ABDN	ABANDON ALTERNATING CURRENT
AC	ASPHALTIC CEMENT
ACI	AMERICAN CONCRETE INSTITUTE
ACU	AIR CONDITIONING CONDENSING UNIT
AD	AREA DRAIN
ADD AFD	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AG	ACOUSTICAL GLASS
AGGR	
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AL (ALUM)	
ALNI ALTN. (ALT)	ALTERNATE
AM	AUTO-MANUAL
ANDZ	ANODIZE
APPROX	APPROVED
ARCH	ARCHITECTURAL
ASU	AIR RELEASE VALVE AIR SUPPLY UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	
AVG	AVERAGE
AVRV	AIR VACUUM RELEASE VALVE
В	BELL
(B)	BRONZE TINT
BD	BUTTERFLY DAMPER
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BLK	BLOCK
BM	BENCHMARK
BOT, (BOTT), B/	BOTTOM
BRG	BLACK STEEL PIPE
BV	BALL VALVE
BVC	BEGINNING OF VERTICAL CIRCUIT
BVC	BEGINNING OF VERTICAL CIRCUIT
BVC C °C	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS
BVC °C C-C	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER
BVC °C C-C CAB CAR	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET
BVC °C C-C CAB CAR CB	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN
BVC °C C-C CAB CAR CB CB	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER
BVC °C C-C CAB CAR CB CB CC CC CC	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL
BVC C C-C CAB CAR CB CB CC CCP CCS	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM
BVC C C-C CAB CAR CB CB CC CCP CCS CFM	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL (BEAM)
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/I	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CORRUGATED METAL PIPE
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CO CO CO CO CO CO CO CO CO	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO COL CONC	BALL ONLY C BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONC CONC CONC CONC CONC	BEGINNING OF VERTICAL CIRCUIT BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON SOIL PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED
BVC C C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONC CONT CONN CONT	BEGINNING OF VERTICAL CIRCUIT BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONNECTION
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONDTN CONT CONT CONTR	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONNECTION CONTINUOUS, CONTINUATION CONTRACTOR
BVC C C-C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CONC CONDTN CONT CONTR COORD	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CONCRETE MASONRY UNIT CLEAR CHLORINE CORRUGATED METAL PIPE CONCRETE CONCRETE CONDITIONED CONNECTION CONTRACTOR COORDINATE COORDINATE
BVC C C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONC CONT CONTR COORD COP CP	BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONTRACTOR COORDINATE COPPER CENTER PIVOT
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONDTN CONT CONT CONT COP CP-X	BAGE OVERTICAL CIRCUIT BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CLOSET CLEAR CHLORINE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONTINUOUS, CONTINUATION CONTRACTOR CORPER CENTER PIVOT CONTROL PANEL NO. X
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONDTN CONT C	BAGE UNEXE BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLEAR CHLORINE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONTINUOUS, CONTINUATION CONTRACTOR COORDINATE COPPER CENTER PIVOT CONTROL PANEL NO. X COUPLING
BVC C C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONC CONC CONTR CONTR COORD COP-X CP-X CPLG CPRSR CPT	BAGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONTROL POWER TRANSCOMMED
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONDTN CONT CNT CNT CNT CNT CNT CNT CNT C	BAGE ONE VE BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONTRACTOR COORDINATE COPPER CENTER PIVOT CONTROL PANEL NO. X COUPLING COMPRESSOR CONTROL POWER TRANSFORMER CHLORINATED PVC
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONDTN CONT C	BEGINNING OF VERTICAL CIRCUIT BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONTROL PANEL NO. X CONTROL PANEL NO. X COMTROL POWER TRANSFORMER CHLORINATED PVC CONTROL POWER TRANSFORMER CHLORINATED PVC CONTROL PANEL NO. X
BVC C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONC CONC CONTR CONTR COORD COP CP-X CP-X CPLG CPS CP-X CP	BEGINNING OF VERTICAL CIRCUIT BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONCRETE CONDITIONED CONTRACTOR CONTROL PANEL NO. X COUPLING COMPRESSOR CONTROL POWER TRANSFORMER CHLORINATED PVC CONTROL RELAY COLD ROLLED STEEL PVC COATED RIGH STEEL
BVC C C-C C-C CAB CAR CB CB CC CCP CCS CFM CFS CHAN, C CHEM CI CIP CIPS CJ CKT CLDIP C/L CLO CLR CL2 CMP CMU CO CONC CONC CONC CONTR CNTR CN	BEGINNING OF VERTICAL CIRCUIT BEGINNING OF VERTICAL CIRCUIT CONDUIT DEGREE CELSIUS CENTER TO CENTER CABINET CARPET CATCH BASIN CIRCUIT BREAKER CONTROL CABLE CENTRAL CONTROL PANEL CENTRAL CONTROL SYSTEM CUBIC FEET PER MINUTE CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CHANNEL, (BEAM) CHEMICAL CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CIRCUIT CENTERLINE CEMENT LINED DUCTILE IRON PIPE CENTER LINE CLOSET CLEAR CHLORINE CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONSTRUCTION CONTINUOUS, CONTINUATION CONTRACTOR CONTROL PANEL NO. X COUPLING COMTROL PANEL NO. X COUPLING CONTROL POWER TRANSFORMER CHLORINATED PVC CONTROL RELAY COLD ROLLED STEEL PVC COATED RIGID STEEL CUP SINK

CERAMIC SUSPENDED ACOUSTICAL TILE CEILING FT CERAMIC TILE CURRENT TRANSFORMER CENTERED COUNTERSUNK CUBIC FOOT CUBIC INCH CUBIC YARD COPPER TUBING, HARD DRAWN CHECK VALVE CABINET DOOR MOUNTED WASTE RECEPTACLE PENNY NAIL SIZE DATA ACQUISITION SYSTEM DEFORMED BAR ANCHOR DOUBLE DIRECT CURRENT DEGREE DETAIL DOUGLAS FIR DRINKING FOUNTAIN DEPT OF HEALTH AND ENVIRONMENTAL CONTROL DROP INLET DUCTILE IRON DIAMETER DIAGONAL DUCTILE IRON PIPE DIRECTION DISCHARGE DIRECT ON-LINE DRAIN DOWNSPOUT DRAWING DOWN EAST EMPTY EACH EMERGENCY EYEWASH EACH FACE EXHAUST FAN ELEVATION ELBOW EXTERIOR INSULATION FINISH SYSTEM ELECTRICAL LOAD CENTER ELECTRIC, ELECTRICAL ENGINEER EDGE OF GUTTER EDGE OF PAVEMENT EDGE OF PAVING EXPLOSION PROOF EQUAL EQUALLY SPACED EQPT, (EQUIP) EQUIPMENT ELLIPTICAL REINFORCED CONCRETE PIPE ELAPSED TIME METER END OF VERTICAL CURVE EACH WAY EXHAUST EXPANSION EXPOSED EXPANSION ANCHOR BOLT EXPANSION JOINT EXST, (EXIST) EXISTING EXTERIOR DEGREE FAHRENHEIT FUSE FRESH AIR INLET FLEXIBLE CONDUIT FLANGED COUPLING ADAPTER FREE CHLORINE RESIDUAL FLOOR CLEANOUT FACTORY FLOOR DRAIN FOUNDATION FEEDER FIRE EXTINGUISHER FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE FLANGE FLOOR FLEXIBLE FLAT HEAD FILTER FLUORESCENT FINISH FIELD PANEL FEET PER SECOND FIELD PANEL NO.WX FORWARD REVERSE FIBERGLASS REINFORCED PLASTIC FOLDING SHOWER SEAT FIRE SPRINKLER LINE

CSATC

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EXP

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FG

FHY

FIG

FL

FLG

FLEX

FLTR

FNSH

FP

FPS

FR

FRP

FSL

FSHS

FP-W-X

FLUOR

FLH

FL (FLR)

FEXT

EXP AB

EXP JT

EL, ELEV

DISCH

CWR

CU YD





FT FTC	FOOT OR FEET	
FU	FIXTURE UNIT	LOS
FVNER	FULL VOLTAGE NON-REVERSING	LP
FVR	FULL VOLTAGE REVERSING	L.P.
		LR
G,GND	GAUGE	LR
GAL	GALLON	LS
GALV	GALVANIZED	L I G I WI
GB		LYRS
GEI	GROUND FAULT INTERRUPTER	M&BH
GFR	GROUND FAULT RELAY	MA
GL	GLASS	MAS
GPD	GALLONS PER DAY	MATL MAX
GPM	GALLONS PER MINUTE	MB
GRTG	GRATING	MC
GSP	GALVANIZED STEEL PIPE	MC MCC
GVI	GRAVEL	MECH
GWB	GYPSUM WALL BOARD	MET
GYP	GYPSUM	MFD
н	HORN OR HOWLER	
HAS	HEADED ANCHOR STUD	MH
НВ		MIN
HD	HUB DRAIN	MIR
HDR	HEADER	MJ
HDW		MLO
HGL	HYPALON ELASTIC SHEET ROOFING HYDRAULIC GRADE LINE	MMP
HGT	HEIGHT	M.O. MP
HH	HANDHOLE	MPU
HID HK	HIGH INTENSITY DISCHARGE	MTD
HM	HOLLOW METAL	MIS MTS
HOA	HAND-OFF-AUTO	MV
HOR	HAND-OFF-REMOTE	MWS
HP	HORIZONTAL HORSEPOWER	N/A
H.P.	HIGH POINT	N/C
HPS	HIGH PRESSURE SODIUM	N/O
	HOSE RACK	N, NEUT NA
HV	HOSE VALVE	ND
HVAC	HEATING, VENTILATING & AIRCONDITIONING	NGS STA
HW		NIC
		NP
	INTERRUPTING CAPACITY	NPT
IE	INVERT ELEVATION	NS
IF	INSIDE FACE	N15
IG	INSULATING GLASS	0
INCAND	INCH	OC OC
INJS	INJECTIONS	OC
INST	INSTANTANEOUS	OCA
INSTM	INSTRUMENT, INSTRUMENTATION	OCK
INV	INVERT	OF
IRRIG	IRRIGATION	OL
IIG IU	INSULATED TEMPERED GLASS	00
IW	IRRIGATION WELL	OOR
J. JB	JUNCTION BOX	OP
JAN	JANITOR	
JCT	JUNCTION	OSC
JT	JOINT	OSD
K		OZ
KIP KIT	KITCHEN	P
KSK	KITCHEN SINK	PAV
KV	KILOVOLTS	PC
KVA KVAR	KILOVOLTS AMPERES	PC
KW	KILOWATT	
L	LENGTH	PEP
LA	LIGHTNING ARRESTER	pН
		РI р IE
LAT	LATITUDE	PL
LAV	LAVATORY	PLAS
		PLC
	LIGHTING CONTRACTOR	PLYWD
LF	LINEAR FEET	PNL
LG		PP
LH HR	LEFT HAND	PPL PRC.ST
LLH	LONG LEG HORIZONTAL	PREFAB
LLV	LONG LEG VERTICAL	PRES

LNTL

	PRI
LONGITUDINAL	PRM
LOCK-OUT STOP PUSHBUTTON	PROJ
LIGHT POLE	PROP
LOW POINT	PS
LATCHING RELAY	PSF
LOCAL-REMOTE	PSI
LONG RADIUS	PSIG
LABORATORY SINK	
LIGHTS OR LIGHTING	
LOW WATER LEVEL	PI
LAYERS	PTAC
MOP AND BROOM HOLDER	
MANUAL - AUTO	
MASONRY	
MATERIAL	
MAXIMUM	
MACHINE BOLT	
MASONRY CLEARANCE	QT
MODERATE-CLOSE	R (RAD)
MOTOR CONTROL CENTER	RČ
MECHANICAL	RCP
METAL	RCPT
MANUFACTURED	RD
MANUFACTURER	RD
MILLION GALLONS PER DAY	RDCR
MANHOLE	RDW
MINIMUM	REF
MIRROR	REF
MISCELLANEOUS	REFR
	REINF
	REQD
MECHANICAL MOUNTING PANEL	RG
	RH
	RH
	RHR
	RL
	RL
	RLS
	RM
MAXIMUM WATER SURFACE	ROL
NOT APPLICABLE	RPM
NORMALLY CLOSED	RS
NORMALLY OPEN	RSI
NEUTRAL	
NON-AUTOMATIC	
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	S
NOT IN CONTRACT	S S
NOT IN CONTRACT NUMBER NON-PROTECTED	S S S
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS	S S S SATC
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK	S S S SATC SC
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE	S S S SATC SC SCBA
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE	S S S SATC SC SCBA SCC
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT	S S S SATC SC SCBA SCC SCFM
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER	S S S SATC SC SCBA SCC SCFM SCH
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE	S S S SATC SC SCBA SCC SCFM SCH SCR
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE	S S S SATC SC SCBA SCC SCFM SCH SCR SCU
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE	S S S SATC SC SCBA SCC SCFM SCH SCH SCR SCU SD
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER	S S S SATC SC SCBA SCC SCFM SCH SCH SCR SCU SD SDMH
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE FACE	S S S SATC SC SCBA SCC SCFM SCH SCH SCR SCU SD SDMH SDWK
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY	S S S SATC SC SCBA SCC SCFM SCH SCR SCH SCR SCU SD SDMH SDWK SEC
NATIONAL GEODETIC SORVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-AUTO	S S S SATC SC SCBA SCC SCFM SCC SCH SCR SCH SCR SCU SD SDMH SDWK SEC SECT SED
NATIONAL OLODETTIC SOLVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-AUTO ON-OFF-REMOTE	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW
NATIONAL OLODETTIC SORVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-AUTO ON-OFF-REMOTE OPAQUE PANEL	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF
NATIONAL OLODETTC SORVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPERATOR	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF
NATIONAL OLODETTIC SOLVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPENING	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG
NATIONAL OLODETTIC SOLVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPENING OPEN-STOP-CLOSE	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SF SG SGWB
NATIONAL OLODETTIC SOLVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-AUTO ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPENING OPEN-STOP-CLOSE OPEN SITE DRAIN	S S S SATC SC SCBA SCC SCFM SCC SCFM SCR SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG SGWB SH
NATIONAL OLODE THE SORVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPEN-STOP-CLOSE OPEN SITE DRAIN OUNCE	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG SGWB SH SH (SHT)
NATIONAL OLODETTIC SORVET STATION NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPEN-STOP-CLOSE OPEN SITE DRAIN OUNCE	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG SGWB SH SH (SHT) SHA
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-AUTO ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPENING OPEN-STOP-CLOSE OPEN SITE DRAIN OUNCE PILASTER, PIPE PAVER TILE	S S S SATC SC SCBA SCC SCFM SCC SCFM SCR SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG SGWB SH SH SH(SHT) SHA SHS
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPENATOR OPENING OPEN-STOP-CLOSE OPEN SITE DRAIN OUNCE PILASTER, PIPE PAVER TILE PIJSHBUITTON SWITCH	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG SGWB SH SH (SHT) SHA SHS SIM
NOT IN CONTRACT NUMBER NON-PROTECTED NATIONAL PIPE THREADS NON-SHRINK NOT TO SCALE O TO O OUT TO OUT OA OVERALL ON CENTER OPEN-CLOSE OPEN-CLOSE-AUTO OPEN-CLOSE-REMOTE OUTSIDE DIAMETER OUTSIDE DIAMETER OUTSIDE FACE OVERLOAD RELAY ON-OFF ON-OFF-REMOTE OPAQUE PANEL OPERATOR OPENING OPEN-STOP-CLOSE OPEN SITE DRAIN OUNCE PILASTER, PIPE PAVER TILE PUSHBUTTON SWITCH PHOTOCEL	S S S SATC SC SCBA SCC SCFM SCC SCFM SCH SCR SCU SD SDMH SDWK SEC SECT SED SEW SF SF SG SGWB SH SH SH SHA SHS SIM SMH SOLN
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	STAINLESS STEEL SAFETY SHOWER SERVICE SINK STATUS STANDARD STIFFENER STIRRUP

No.	Description	Date	STAMP:	ADDRESS:	
			EORG		PROJECT NO:
			C C STER	6 CONCOURSE PARKWAY	DESIGNED BY:
			H ROFESSONAL +	SUITE 1600	DRAWN BY:
			09/27/19	ATLANTA, GA 30328 (770) 569-7038 x101	CHECKED BY:
			GENGINEES GEODOR N.N.	FAX: (770) 993-5082	DATE:
			URGE E		SCALE:

ERENCED MARKER	STL ST STRL	STEEL STRAIGHT STRUCTURAL
SHEET	STRUCT	SUSPENDED
JARE FOOT	SV	SOLENDID VALVE
JARE INCH	SYMM	SYMMETRICAL
JARE INCH, GAUGE	т	THERMOSTAT
	т&В	
SFORMER	T&G	
	Τ/	TOP OF
SPENSER	TAN	TANGENT
	ТВ	TERMINAL BOARD
RIDE	ТВ	TOWEL BAR
AL INTERSECTION	TBG	TUBING
	тс	TIME TO CLOSE
AL TANGENCY	TCAE	TIME CLOSE AFTER ENERGIZATION
	TCL2	TOTAL CHLORINE RESIDUAL
	TDH	TOTAL DYNAMIC HEAD
NCRETE	TDR	TIME DELAY RELAY
NCRETE PIPE	TECH	TECHNICAL
	TEL	TELEPHONE
	TEMP	TEMPORARY
	TF	TOP FACE
	TFG	TEMPERED FLOAT GLASS
ENCE	THD	THREAD
	THK	THICKNESS
	THRU	THROUGH
INFORGING, REINFORGE	IJB 	TERMINAL JUNCTION BOX
	TL	TEFLON LINE PIPE
	10	TIME TO OPEN
	TOAD	TIME CLOSE AFTER DE-ENERGIZATION
ERSE	TOAE	TIME OPEN AFTER ENERGIZATION
		TRANSFORMER
EEL	TRANSV	TRANSVERSE
P		TREAD
EEL		IREAIMENT UNIT NO. X
		U ON UNLESS OTHERWISE NOTED
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	UR	
	UVR	UVR UNDER VOLTAGE RELAY
USTICAL THE CEILING	M	
N	V	
BREATHING APPARATUS	V	
	V	VOLTMETER. VOLTS
CFEED PER MINUTE	VB	VAPOR BARRIER
	VC	VERTICAL CURVE
	VCP	VITRIFIED CLAY PIPE
NHOLE	VIR	
	VP	
	VPC	POINT OF VERTICAL CURVATURE
	VPI	POINT OF VERTICAL INTERSECTION
	VPS	VENEER PLASTER SYSTEM
	VPT	POINT OF VERTICAL TANGENT
TY GLASS		VENT THRU ROOF
SUM WALL BOARD	VV \\/	WEST
	W/	
	WC	
	ΨD	WOOD
5 5 Y 5 I EIM	WG	WIRE GLASS
	WH	WATER HEATER
	WH	WATTHOUR METER
S		
	WP	WEATHERPROOF
	WR	WASTE RECEPTACLE
	WS	WATER SURFACE
	WS	WATERSTOP
==T	WS	WELDED STEEL
_ _ _ _ _	WTP	WATER TREATMENT PLANT
	VV I K \/\/\/山口	
	WWTP	WASTEWATER TREATMENT DI ANIT
-	****	VASILVATEN INEATIVIEINT FLANT
	THIS IS A STAN	DARD LEGEND SHEET, THEREFORE SOME
		S WAY NUT APPEAR ON THIS SHEET AND NOT ON

	CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT	DRAWING NO.	
TASK_13	ASK_13 WATER SUPPLY PROGRAM		
A.T.	DIVED INTAKE DUMD STATION	RI-PS	
J.J.	RIVER INTAKE FOUR STATION		
G.A.		C_002	
09/27/19	GENERAL ABBREV/IATIONS	0-002	
NONE		SHEET OF	

ISSUED FOR BIDDING

GENERAL LEGEND
SECTION (LETTER) DESIGNATION A SHT. NO ON DRAWING WHERE SECTION OR DETAIL IS TAKEN DRAWING NUMBER WHERE SHOWN
SHEET NUMBER (REPLACED WITH A LINE IF TAKEN AND SHOWN ON THE SAME SHEET) ON DRAWING WHERE SECTION OR DETAIL IS SHOWN DRAWING NUMBER(S) WHERE TAKEN
STANDARD DETAIL AS INDICATED
DETAIL & SECTION DESIGNATION
<u>GENERAL NOTES:</u>
 FACILITIES ARE SHOWN HEAVY LINED. SCREENING IS USED TO IN ORDER TO CLARIFY DRAWINGS. FOR EXAMPLE, STRUCTURES ARE SCREENED ON MECHANICAL DRAWINGS TO HIGH-LITE PIPING AND EQUIPMENT.
 DEMOLITION WORK IS SHOWN BY DEPICTING FACILITIES, EQUIPMENT, PIPING, ETC. TO BE REMOVED AS CROSS HATCH.
3. ALL DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT TO BE VERIFIED.
4. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER DISCIPLINES OF DRAWINGS FOR ADDITIONAL NOTES.
CONSTRUCTION NOTES:
1. UNDERGROUND UTILITIES ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. WHERE CROSSING OF EXISTING UTILITIES OCCUR, PROVIDE 12" MINIMUM CLEARANCE EXCEPT WATER MAINS SHALL BE 18". CROSS UNDER ALL WATER MAINS WHERE NOT POSSIBLE TO PROVIDE 18" CLEARANCE.
2. SEWER AND WATER SERVICE SHALL BE MAINTAINED DURING ENTIRE CONSTRUCTION PERIOD OR TEMPORARY FACILITIES PROVIDED.
3. MINIMUM COVER OVER PIPING SHALL BE 48", BELOW FINISHED GRADE UNLESS OTHERWISE SHOWN OR SPECIFIED.
4. IF UNSATISFACTORY MATERIAL FOR ADEQUATE BEARING IS ENCOUNTERED AT THE NORMAL SUBGRADE, THE UNSATISFACTORY MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE FOUNDATION STABILIZATION MATERIAL AS SPECIFIED.
5. THE CONTRACTOR SHALL NOT DISTURB AREAS OUTSIDE THE PROJECT SITE.
GENERAL PIPING NOTES
1. LAY PIPE TO UNIFORM GRADE BETWEEN INDICATED ELEVATION POINTS.
 SIZE OF FITTINGS SHOWN ON PLANS SHALL CORRESPOND TO ADJACENT STRAIGHT RUN OF PIPE, UNLESS OTHERWISE INDICATED. TYPE OF JOINT AND FITTING MATERIAL SHALL BE THE SAME AS SHOWN FOR ADJACENT STRAIGHT RUN OF PIPE.
3. LOCATION AND NUMBER OF PIPE HANGERS AND PIPE SUPPORTS SHOWN IS ONLY APPROXIMATE. FINAL SUPPORT REQUIREMENTS SHALL BE DETERMINED BY THE CONTRACTOR.
JOINT VENTURE BLACK & VEATCH • GRESHAM SMITH • RIVER TO TAP

GENERAL PIPING NO

- 4. ALL JOINTS SHALL BE WATER WHEREVER PIPING PASSES FI
- 5. ALL FLEXIBLE CONNECTORS PROVIDED WITH THRUST TIES
- 6. SYMBOLS, LEGENDS, AND PIP FOLLOWED THROUGHOUT TH NOT ALL OF THE VARIOUS PIP USED IN THE PROJECT.
- 7. ALL BURIED PIPING SPECIFIED FLANGED, WELDED, OR SCRE THRUST RESTRAINT, AS SPE DEAD ENDS UNLESS OTHERW

PIPE & FITTING SYM





TES ((CONT'D.):	PIPE & FITTING SYN	MBOLS (CONT'D.)	<u>CIVIL LEGEND (C</u>	<u>ONT'D.)</u>
RTIGHT. FROM A S	WALL PIPES SHALL BE USED STRUCTURE TO BACKFILL.	m_XX		UT UT	UNDER GROUND TELEPH
OR FLAN S, OR AN	NGED COUPLING ADAPTERS SHALL BE NCHORS, UNLESS OTHERWISE NOTED.		+ × ELBOW, 45 DEGREE	UC UC	UNDERGROUND CABLE
PE USE I	DENTIFICATIONS SHOWN SHALL BE		/		MATCH LINE
HE PLAN PING CO	S, WHEREVER APPLICABLE. MPONENTS ARE NECESSARILY			<u> </u>	BRIDGE
					STORM INLET
CIFIED A	TALL DIRECTIONAL CHANGES, AND TED.	<u>CIVIL LEGEND</u>			STORM MANHOLE
		<u>P</u>	PROPERTY LINE	55	MANHOLE
<u>IBOLS</u>	<u>5</u>	R/W	RIGHT-OF-WAY		SANITARY SEWER LATER
<u>NE</u>		<u> </u>	CENTER LINE		SANITARY SEWER LATER
	FLEXIBLE COUPLING	_ · · · · ·	LOT LINE	■	WATER METER (SINGLE S
	ELASTOMER BELLOWS EXP JOINT	· · · · · ·	EDGE OF WATER	∎]−┤	WATER METER (DOUBLE S
	STEEL BELLOWS EXP JOINT		EDGE OF PAVEMENT		GATE VALVE
	ELBOW UP		CURB & GUTTER		FIRE HYDRANT CHECK VALVE
		xx	FENCE (CHAINLINK)		CONCRETE
	ELBOW DOWN	<u> </u>	FENCE (SILT)		EARTH
	TEE UP		BUILDING		GRAVEL/RIP-RAP
	TEE DOWN		SETBACK LINE		SAND
	LATERAL UP		EASEMENT	, , , , , , , , , , , , , , , , , , ,	SOD
		—— FM —— FM ——	FORCE MAIN		AREA TO BE MULCHED
	LATEINAE DOWIN	WM	WATER MAIN		AREA TO BE SAW CUT & F
	CONCENTRIC REDUCER	SAN	SANITARY SEWER		PROPOSED MILL AND OVE
	ECCENTRIC REDUCER	RWM RWM	REJECT WATER MAIN		TREE REMOVAL/DEMOLIT
	UNION	IQ IQ	IRRIGATION QUALITY WATER MAIN	-00	SILT FENCE
			DRAINAGE (RCP)	-00	SPLIT RAIL FENCE
	CAP	HDPE HDPE	HIGH DENSITY POLYETHYLENE PIPE	<u> </u>	DRAINAGE FLOW ARROW
	ANCHOR		STORM PIPE - MITERED END SECTION		DRAINAGE FLOW ARROW
			STORM PIPE - STRAIGHT ENDWALL	Ŧ	RESIDENTIAL STREET LIG
 _	ELBOW, 90 DEGREE		STORM PIPE W/FLOW DISSIPATOR	■ 	SIGN
			STORM PIPE - 'U' TYPE ENDWALL	F.F. XX.XX	PROPOSED FINISH FLOOF
	CROSS	OHE	OVERHEAD ELECTRIC		SPOT ELEVATION
	TEE	— vs — vs —	WATER SERVICE	A.OU (EDGE OF FVINIT)	
		PVC PVC	PVC PIPING		
		UGE UGE	UNDER GROUND ELECTRIC		

No.	Description	Date	STAMP:	ADDRESS:	
			EORG		PROJECT NO:
			- CISTER	6 CONCOURSE PARKWAY	DESIGNED BY
			No. 26889 ➡□ BROFESSIONAL ★	SUITE 1600	DRAWN BY:
			09/27/19	ATLANTA, GA 30328 (770) 569-7038 ×101	CHECKED BY:
			GEODAL NY	FAX: (770) 993-5082	DATE:
			URGE AS		SCALE:

	<u>CIVIL LEC</u>	GEND (CONT'D.
HONE		PAVEMENT DEMOLITION
		PAVEMENT PATCHING
		DEMOLITION
		CURB AND GUTTER

DEMOLISH TREE

PROTECT TREE

LIMITS OF

WATER MAIN

DISTURBANCE

FIRE HYDRANT

GATE VALVE

WATER METER

BRIDGE	
STORM INLET	\otimes
STORM MANHOLE	0
MANHOLE	
SANITARY SEWER LATERAL (SINGLE SERVICE)	ww
SANITARY SEWER LATERAL (DOUBLE SERVICE)	Ŋ
WATER METER (SINGLE SERVICE)	м
WATER METER (DOUBLE SERVICE)	м
GATE VALVE	
FIRE HYDRANT	
CHECK VALVE	
CONCRETE	

AREA TO BE SAW CUT & REMOVED

PROPOSED MILL AND OVERLAY

TREE REMOVAL/DEMOLITION

DRAINAGE FLOW ARROW (IMPERVIOUS AREA)

DRAINAGE FLOW ARROW (PERVIOUS AREA)

RESIDENTIAL STREET LIGHT

PROPOSED FINISH FLOOR ELEVATION

NOTES:

THIS IS A STANDARD LEGEND SHEET, THEREFORE SOME ABBREVIATIONS MAY NOT APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS. SOME DRAWINGS MAY SHOW MINOR DEVIATIONS FROM STANDARD LEGEND SHEET.

	CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT
TASK_13	WATER SUPPLY PROGRAM
A.T.	RIVER INTAKE PLIMP STATION
J.J.	A.1.RIVER INTAKE PUMP STATIONJ.J.G.A.
G.A.	
09/27/19	GENERAL LEGEND
NONE	

GENERAL LEGEND

DRAWING NO.

RI-PS

G-003 SHEET OF

ISSUED FOR BIDDING

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE CONTRACT DRAWINGS, SPECIFICATIONS, CITY OF ATLANTA DESIGN AND CONSTRUCTION STANDARDS, IN ADDITION TO APPLICABLE STATE, FEDERAL AND LOCAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS OWN EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
- 2. THE SIZE, TYPE, MATERIALS, AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS IS BASED ON INVESTIGATIONS AND SURVEYS PERFORMED FOR DESIGN PURPOSES. SUBSURFACE UTILITY DATA SHOWN IS APPROXIMATE ONLY AND NO GUARANTEE IS MADE THAT ALL UTILITIES AND OTHER FEATURES ARE SHOWN ON THE PLANS. IF THE CONTRACTOR ENCOUNTERS SUBSURFACE CONDITIONS AT THE SITE MATERIALLY DIFFERENT FROM THOSE SHOWN ON THE PLANS, HE SHALL IMMEDIATELY NOTIFY THE OWNER AND ENGINEER.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES AND CONTACT THE GEORGIA UTILITY PROTECTION CENTER AT PHONE NUMBER 811 FOR FIELD MARKING OF UTILITIES 48 HOURS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMANGE AT NO ADDITIONAL COST TO THE OWNER.
- OVERHEAD UTILITIES ARE SHOWN SCHEMATICALLY ON THE DRAWINGS. SIZES, TYPE, VOLTAGE, HEIGHT OF CABLE, ETC, ARE NOT SHOWN. THE CONTRACTOR SHALL COMPLY WITH THE GEORGIA HIGH VOLTAGE SAFETY ACT (OCGA 46-3-30 THROUGH 46-3-40). THE CONTRACTOR SHALL VISIT THE SITE AND NOTE THE CONDITIONS REGARDING OVERHEAD UTILITIES PRIOR TO SUBMITTING HIS BID.
- 5. THE FOLLOWING IS A LIST OF CONTACTS FOR UTILITIES THAT HAVE FACILITIES IN THE PROJECT AREA. THIS LIST IS BASED ON THE BEST INFORMATION AVAILABLE, BUT IS NOT GUARANTEED TO BE COMPLETE.

GA POWER **BUZ MERRITT** CHEMICAL & PIPELINE ACCOUNT MANAGER GEORGIA POWER COMPANY 770-621-2338

- 6. ALL SIGNS, BILLBOARDS, MAILBOXES, LANDSCAPING, STORM DRAINS, CURBING AND/OR GUTTER, LAWNS AND OTHER GRASSED AREAS, AND FENCING DISTURBED BY CONSTRUCTION OPERATIONS SHALL BE REMOVED AND REPLACED IN LIKE AND KIND BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER AND TO THE COMPLETE SATISFACTION OF THE OWNER OF THE DISTURBED ITEM. TRAFFIC CONTROL SIGNS AND MAIL BOXES SHALL BE REPLACED DAILY.
- 7. THE CONTRACTOR SHALL RESTORE ALL DISTURBED GRAVEL, PAVED, OR CONCRETE ENTRANCES, DRIVEWAYS, AND APRONS TO PRECONSTRUCTION CONDITIONS (EXCEPT WHERE THE DRAWINGS CALL FOR CHANGES TO THE CONFIGURATIONS OF SUCH FEATURES) AND IN ACCORDANCE WITH APPLICABLE GDOT AND CITY OF ATLANTA STANDARDS AND REQUIREMENTS.
- SOD SHALL BE PLACED ON ALL ESTABLISHED TYPE LAWNS & OTHER IMPROVED WELL ESTABLISHED GRASS AREAS. ON UN-IMPROVED GRASS AREAS & EASEMENTS, SEEDING WILL BE ALLOWED WHEN APPROVED BY THE OWNER.
- INGRESS AND EGRESS TO ALL LOCATIONS AT THE PROJECT SITE SHALL BE MAINTAINED AT ALL TIMES. SITE ACCESS FOR THE OWNER, THE ENGINEER, TRASH PICKUP, MAIL AND PARCEL DELIVERY SERVICES, AND EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- 10. THE SURVEY FOR THIS PROJECT WAS PREPARED BY TERRAMARK USING TOPOGRAPHIC FIELD SURVEYING METHODS AND SUPPLEMENTED BY CITY GIS DATA.
- 11. HORIZONTAL CONTROL IS BASED ON THE GEORGIA STATE PLANE COORDINATE SYSTEM, WEST ZONE (NAD 1983). VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD 1988).
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED FOR INSTALLATION OF THE PROPOSED WORK
- 13. THE CONTRACTOR SHALL MAINTAIN ALL BENCHMARKS, MONUMENTS AND OTHER REFERENCE MARKERS. THE CONTRACTOR SHALL RE-ESTABLISH ANY REFERENCE OR CONTROL POINT THAT IS DISTURBED OR DESTROYED.
- 14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH SUITABLE BORROW MATERIAL FOR THE PROJECT.
- 15. WHERE WET SUBGRADE IS ENCOUNTERED AND WHERE IDENTIFIED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXCAVATIONS FREE FROM WATER AS REQUIRED TO PERFORM THE WORK OF THIS PROJECT. DEWATERING OPERATIONS SHALL BE PERFORMED AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.
- 16. THE CONTRACTOR SHALL OBSERVE ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS REGARDING PIPE INSTALLATION IN TRENCHES. NO SEPARATE PAYMENT WILL BE MADE FOR ANY COST INCURRED TO COMPLY WITH THIS REQUIREMENT.
- 17. THE CONTRACTOR SHALL ENSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS. THIS MAY INCLUDE, BUT NOT BE LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED OR RE-GRADED AS REQUIRED BY THE ENGINEER, EXCEPT FOR THOSE DRAINAGE ITEMS SHOWN AT SPECIFIC LOCATIONS IN THE PLANS AND HAVING SPECIFIC ITEMS IN THE PAY ITEMS OR SCHEDULE OF VALUES. NO ADDITIONAL PAYMENTS WILL BE MADE FOR ANY COSTS INCURRED TO COMPLY WITH THIS REQUIREMENT.
- 18. A PRECONSTRUCTION CONFERENCE MUST BE HELD BETWEEN THE CITY, THE ENIGNEER, AND THE CONTRACTOR PRIOR TO COMMENCING WORK. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER 24 HOURS BEFORE BEGINNING CONSTRUCTION.
- 19. THE CONTRACTOR SHALL IMMEDIATELY INFORM ENGINEER OF ANY DISCREPANCIES OR ERRORS THAT HE/SHE DISCOVERS IN THE PLANS.





GENERAL NOTES (CONTINUED)

- 20. A MINIMUM SEPARATION OF 3' SHALL BE MAINTAINED BETWEEN WATERLINES AND NON-POTABLE REUSE WATER LINES. AN 18" MINIMUM VERTICAL SEPARATION SHALL BE MAINTAINED AT CROSSINGS. WHEN CROSSING A WATERLINE, SEWER LINE, OR ANY OTHER PIPING, PIPE JOINTS SHALL BE PLACED AS FAR AWAY AS POSSIBLE FROM THE OTHER PIPE.
- 21. ALL EARTHWORK OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR PART 1926, SUBPART P-EXCAVATIONS, LATEST REVISION.
- 22. FLOOD PLAIN INFORMATION SHOWN ON THE PLANS IS BASED ON GEORGIA DFIRM No. 13067C0229H, EFF. 3/4/2013.
- 23. THERE ARE NO WETLANDS DISTURBANCE WITHIN THE LIMITS OF DISTURBANCE OF THIS PROJECT.
- 24. ALL WORK WITHIN STREAM BUFFERS ON THIS PROJECT SHALL COMPLY WITH THE REQUIREMENTS OF THE STREAM BUFFER VARIANCE ISSUED BY GA EPD FOR THIS PROJECT.
- 25. ALL WORK SHALL BE CONDUCTED ON CITY OWNED PROPERTY AS SHOWN ON THE PLANS. ALL WORK SHALL ALSO BE CONFINED TO THE "LIMITS OF DISTURBANCE" NOTED ON THE PLANS.
- 26. ALL SPOIL MATERIALS, REFUSE, AND DEBRIS SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION. BURNING OF REFUSE, DEBRIS, OR SPOIL MATERIAL AT THE PROJECT SITE IS NOT ALLOWED.
- 27. STORMWATER MANAGEMENT FOR THIS PROJECT IS PROVIDED ON SITE.
- 28. THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED; AND, 2) THE APPROPRIATE PLAN SHEET [X] DOES/ [] DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLANDS AS SHOWN ON THE MAPS' AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.
- 29. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED EXCEPT THOSE SPECIFICALLY ENUMERATED BELOW THAT WILL BE OBTAINED BY THE OWNER:
 - CITY OF ATLANTA SITE DEVELOPMENT PERMITS. Α CITY OF ATLANTA BUILDING PERMITS.
 - EROSION AND SEDIMENT CONTROL PERMIT APPROVAL FROM THE LIA.
 - STREAM BUFFER VARIANCE FROM GA EPD. D.
 - MRPA. CORP OF ENGINEERS FLOOD PLAIN APPROVAL.
- 30. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH TREE PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
- 31. ALL CONSTRUCTION TO COMPLY WITH CITY OF ATLANTA STANDARDS.
- 32. NOTIFY THE OWNER AND ENGINEER 24 HOURS PRIOR TO BEGINNING OF EVERY PHASE OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE ALL PIPE FITTINGS AND BENDS AND APPURTENANT ITEMS REQUIRED 33. TO INSTALL THE PROPOSED WATER MAIN WHETHER OR NOT SUCH ITEMS ARE SHOWN OR CALLED OUT ON THE PLANS. THESE ITEMS CAN INCLUDE, BUT ARE NOT LIMITED TO, PIPE FITTINGS AND BENDS, RETAINER GLANDS, PIPE SHORTS, CONCRETE BLOCKING AND ANCHORING, AND ALL OTHER LABOR, MATERIALS, TOOLS, AND INCIDENTALS REQUIRED TO COMPLETE THE PROPOSED PIPELINE INSTALLATIONS.
- 34. THE CONTRACTOR IS ADVISED THAT FIELD ADJUSTMENTS WILL BE REQUIRED TO THE ALIGNMENT OF THE PROPOSED PIPELINE, TYPE AND LOCATION OF FITTINGS INSTALLED, AND THE LOCATIONS OF TEES, BENDS. HYDRANTS. AND OTHER APPURTENANCES TO BE INSTALLED BASED ON ACTUAL SUBSURFACE. CONDITIONS AND LOCATIONS OF EXISTING BURIED UTILITIES ENCOUNTERED DURING CONSTRUCTION.
- 35. THE 24-HOUR EMERGENCY CONTACT IS:
 - C. DENNIS PHILLIPS CITY OF ATLANTA CONSTRUCTION MANAGER OFFICE HOURS CONTACT NO.: (404) 546-3446
 - AFTER HOURS CONTACT NO.: (678) 873-8400
- 36. ALL SALVAGED MANHOLE COVERS, SALVAGED FIRE HYDRANTS AND ANY OTHER MATERIAL OWNED BY THE CITY, BUT REMOVED FOR THIS PROJECT, SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
- 37. ALL PIPELINE SLEEVES, COUPLINGS, AND/OR CLOSURE PIECES REQUIRED TO COMPLETE THE PROJECT SHALL BE INCLUDED IN THE BID AT NO ADDITIONAL COST TO THE OWNER.
- 38. INTERRUPTION OF WATER SERVICE, POWER, OR OTHER UTILITY SERVICE TO THE CITY LAB BUILDING ON SITE AT ANY POINT DURING CONSTRUCTION IS PROHIBITED.

CONSTRUCTION SEQUENCING AND CONNECTION NOTES

- PHASING.
- PROJECT IN A TIME EFFICIENT MANNER.
- 3. SUGGESTED SEQUENCE OF CONSTRUCTION:
 - A. KICKOFF MEETING
 - ENGINEER PRIOR TO KICKOFF MEETING.
 - C. MOBILIZE TO SITE.
 - TEMPORARY UTILITY INSTALLATIONS AS NEEDED.
 - SEQUENCING IS THE RESPONSIBILITY OF THE CONTRACTOR.
 - CITY.

 - SEDIMENT CONTROL MEASURES.

 - MADE TO THE CONTRACTOR.

DRAWING NO.	CITY OF ATLANTA DEPT. OF WATERSHED MANAGEMENT			ADDRESS:	STAMP:	Date	Description	No.
	WATER SUPPLY PROGRAM	TASK_13	PROJECT NO:		EORG			
PROGRAMMP STATIONG-004		A.T.	DESIGNED BY:	6 CONCOURSE PARKWAY	CE STER			
	RIVER INTAKE FUIVIF STATION	J.J.	DRAWN BY:	SUITE 1600	No. 26889 ₩0 PROFESSIONAL			
C 004		G.A.	CHECKED BY:	ATLANTA, GA 30328 (770) 569-7038 x101	09/27/19			
RI-PS G-004	GENERAL NOTES	09/27/19	DATE:	FAX: (770) 993-5082	GEODOS NY			
SHEET OF	GENERALINGTED	NONE	SCALE:		URGE RU			

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF CONSTRUCTION SEQUENCING AND

2. THE FOLLOWING SUGGESTED SEQUENCE OF CONSTRUCTION CONTAINS GENERAL REQUIREMENTS, AND SUGGESTED DETAILED SEQUENCING REGARDING SEQUENCING OF THE WORK. THE CONTRACTOR SHALL MAKE REVISIONS BASED ON CONDITIONS ENCOUNTERED DURING CONSTRUCTION SO AS TO COMPLETE THE

B. SUBMIT SCHEDULE OF VALUES AND CONSTRUCTION SCHEDULE FOR REVIEW BY OWNER AND

D. PERFORM SITE PREPARATION INCLUDING CLEARING, GRADING, EROSION AND SEDIMENT CONTROLS, SITE DEMOLITION, ESTABLISHING TEMPORARY PARKING, STAGING AREAS, TRAILER SET UP,

E. PERFORM PROJECT CONSTRUCTION OF GRIT REMOVAL SYSTEM STRUCTURE, PUMPS, PIPING VALVING, ELECTRICAL AND INSTRUMENTATION SYSTEMS, DUCTBANK INSTALLATION, SITE GRADING, DRIVEWAY, LIGHTING, RETAINING WALLS, FINISHED GRADING, AND PERMANENT STABILIZATION. EXACT

F. COORDINATE ELECTRICAL TIE-IN IN RIVER INTAKE PUMP STATION ELECTRICAL BUILDING WITH THE

G. COMPLETE FINAL CIVIL SITE WORK. STORMWATER SYSTEM INSTALLATIONS. GRADING. ASPHALT AND DRIVEWAY CONSTRUCTION. PAVEMENT STRIPING, AND RETAINING WALL CONSTRUCTION.

INSTALL ALL PERMANENT EROSION AND SEDIMENT CONTROLS AND STORMWATER BMP'S. UPON ESTABLISHING FINAL AND PERMANENT STABLIZATION, REMOVE ALL TEMPORARY EROSION AND

PERFORM START UP TESTING WHEN ALL SYSTEMS ARE COMPLETE. PLACE NEW FACILITIES INTO OPERATION UPON SUCCESSFUL COMPLETION OF START UP TESTING.

PERFORM PUNCHLIST INSPECTIONS AND ADDRESS ALL ITEMS TO THE SATISFACTION OF THE OWNER. UPON COMPLETION OF PUNCHLIST ITEMS, ALL RETAINAGE WILL BE RELEASED AND FINAL PAYMENT

K. SUBMITTALS AND SHOP DRAWINGS SHALL BE PROVIDED TO THE ENGINEER WITH ADEQUATE REVIEW TIME IN ADVANCE OF THE PHASES OF WORK TO WHICH THEY ARE RELATED. NO TIME EXTENSIONS OR ADDITIONAL PAYMENTS WILL BE APPROVED DUE TO LATE SUBMITTALS TO THE ENGINEER.