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GENERAL		C-104	CIVIL SITE PLAN - ENLARGED GEOMETRIC CONTROLS	CU-614	COMPREHENSIVE MONITORING PROGRAM GENERAL NOTES	A-106	A
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G-003 DRAWING	G INDEX	C-204	PIPE AND STRUCTURE TABLE	CU-618	FEMA FLOODPLAIN MAP	A-110	A
G-004 ABBREVI	IATIONS	C-301	CIVIL SITE PLAN - YARD PIPING	CU-619		A-111	A
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		C 202		CU 002		A 710	
G-000 FROCES		0.004		CU-902		A-712	
G-007 HIDRAU		C-304	CIVIL SITE PLAN - ENLARGED YARD PIPING	CU-903		A-713	В
G-008 HYDRAU	LIC PROFILE (2 OF 2)	C-601	CIVIL SITE PLAN - PHASE I - EROSION & SEDIMENT CONTROL PLAN	CU-904	STANDARD DETAILS	A-714	B
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-001 P&ID ABE	BREVIATIONS & NOTES	C-606	ES & PC STANDARD DETAILS	S-003	TYPICAL DETAILS	A-724	0
-002 P&ID LEG	GENDS	C-607	ES & PC STANDARD DETAILS	S-004	SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS	A-725	C
-101 P&ID - IN		C-608	ES & PC STANDARD DETAILS	S-101	ADMINISTRATION & LAB BUILDING FOUNDATION PLAN	A-726	Г
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-102 P&ID - IN	FLUENT SCREENS	C-609	ES & PC STANDARD DETAILS	5-102	ADMINISTRATION & LAB BUILDING ROOF FRAMING PLAN	A-727	L
-103 P&ID - GF	RIT REMOVAL	C-610	ES & PC STANDARD DETAILS	S-103	ADMINISTRATION & LAB BUILDING - SECTIONS	A-728	
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-221 P&ID - FL	OW CONTROL VALVE VAULT	C-612	ES & PC STANDARD DETAILS	S-105	GENERATOR & ELECTRICAL BUILDING FOUNDATION - PLANS & SECTION	SHT #	ę
-301 P&ID - AE	ERATION BASIN	C-613	ES & PC STANDARD DETAILS	S-111	HEADWORKS PLAN	P-001	(
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-402 P&ID - R4	AS/WAS PUMP STATION	C-615	COMPREHENSIVE MONITORING PROGRAM GENERAL NOTES	S-113	HEADWORKS - SECTIONS	P-003	ſ
-501 -501	ITERS	C-616	WATERSHED MAP, DRAINAGE AREA & MONITORING LOCATIONS	S-301	ORBAL AFRATION - LOWER PLAN	P_00/	
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-601 P&ID - 01	DISINFECTION	C-617	SOILS MAP	5-302	ORBAL AERATION - UPPER PLAN	P-101	
-602 P&ID - PL	ANT REUSE WATER PUMP STATION & POST AERATION	C-618	SOILS MAP	S-303	ORBAL AERATION - TROLLEY FRAME PLAN	P-102	/
-701 P&ID - AE	EROBIC DIGESTER	C-619	FEMA FLOODPLAIN MAP	S-304	ORBAL AERATION - ENLARGED PLANS	P-103	0
702 P&ID - DI	GESTER BLOWERS	C-620	FEMA FLOODPLAIN MAP	S-305	ORBAL AERATION - ENLARGED PLANS	P-104	
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801 P&ID - YA	ARD DRAIN PUMP STATION	C-905	CIVIL - CIVIL SITE DETAILS	S-307	ORBAL AERATION - SECTIONS	SHT #	5
-802 P&ID - CF	HEMICAL FEED - CAUSTIC SODA	C-906	CIVIL - CIVIL SITE DETAILS	S-308	ORBAL AFRATION - SECTIONS	M-001	(
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-804 P&ID - CF	HEMICAL FEED - POLYMER	C-908	CIVIL - CIVIL SITE DETAILS	S-310	ORBAL AERATION - SECTIONS	M-003	ę
-901 INSTRUM	IENTATION DETAILS	C-909	CIVIL - CIVIL SITE DETAILS	S-311	ORBAL AERATION - TROLLEY ELEVATIONS	M-004	\$
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3-001 CIVIL SIT	E PLAN GEOTECHNICAL EXPLORATION	CU-312	CIVIL SITE PLAN - INFLUENT FORCE MAIN STATION 0+00 TO 10+00	S-613	PLANT REUSE WATER PUMP STATION & POST AERATION - SECTIONS	D-111	I
3-002 CIVIL SIT	E PLAN GEOTECHNICAL EXPLORATION	CU-313	CIVIL SITE PLAN - INFLUENT FORCE MAIN STATION 10+00 TO 19+00	S-614	PLANT REUSE WATER PUMP STATION & POST AERATION - SECTIONS	D-121	ŀ
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		CII-315	CIVIL SITE PLAN - FEFLUENT FORCE MAIN STATION 11+00 TO 22+00	S-702	AFROBIC DIGESTERS - SECTION	D-123	
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3-006 CIVIL SIT	E PLAN GEOTECHNICAL EXPLORATION	CU-317	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 33+00 TO 44+00	S-712	BLOWERS BUILDING - SECTIONS	D-120	1
3-007 CIVIL SIT	E PLAN GEOTECHNICAL EXPLORATION	CU-318	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 44+00 TO 53+00	S-721	DEWATERIING BUILDING - FOUNDATION PLAN	D-201	E
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3-008 CIVIL SIT		CU-320	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 63+50 TO 74+50	S-723	DEWATERIING BUILDING - SECTIONS	D-301	(
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-008 CIVIL SIT -009 CIVIL SIT -010 CIVIL SIT -011 CIVIL SIT -012 CIVIL SIT	E PLAN GEOTECHNICAL EXPLORATION E PLAN GEOTECHNICAL EXPLORATION	CU-321 CU-322	CIVIL SITE PLAN - EFFLUENT FORCE MAIN STATION 85+50 TO 96+50	S 202			
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	СОМ	MON ABBREVIATIONS										
J	A	AIR	DISTR	DISTRIBUTION	HP	HORSEPOWER	OD	OUTSIDE DIAMETER	RR	RAILROAD	VERT	VERTICAL
-	AB	ANCHOR BOLT	DL	DEAD LOAD	HR	HOUR	OF	OUTSIDE FACE OR OVERFLOW	RTN	RETURN	VP	VENT PIPE
	AC	AIR CONDITIONING	DMJ	DUCTILE MECHANICAL JOINT	HS	HIGH STRENGTH	OPNG	OPENING	SALV	SALVAGE	VTR	VENT THROUGH ROOF
	ACP	ASPHALTIC CONCRETE PAVING	DN	DOWN	HVAC	HEATING, VENTILATION, AIR CONDITIONING	OPP	OPPOSITE	SCFM	STANDARD CUBIC FEET PER MINUTE	W/	WITH
	ADDL	ADDITIONAL	DWG	DRAWING	HW	HOT WATER	OPT	OPTIONAL	SCH	SCHEDULE	W/O	WITHOUT
	ADDM	ADDENDUM	EA	EACH	HWL	HIGH WATER LEVEL	PC	POINT OF CURVE OF PORTLAND CEMENT	SCN	SCREENINGS	WC	WATER CLOSET
	ADJ	ADJUSTABLE	ECC	ECCENTRIC	HWY	HIGHWAY	P&C	PIN AND CAP	SDR	STANDARD DIMENSION RATIO	wco	WALL CLEANOUT
I	AFF	ABOVE FINISHED FLOOR	EF	EACH FACE OR ELECTRICAL FAN	HYD	HYDRANT	PCO	PRESSURE CLEAN OUT	SECT	SECTION	WD	WIDTH OR WOOD
	AFS	AIR FLOW SWITCH	EJ	EXPANSION JOINT	ID	INSIDE DIAMETER	PCP	PROGRESSIVE CAVITY PUMP	SHLDR	SHOULDER	WDW	WINDOW
	AHU	AIR HANDLING UNIT	EL	ELEVATION	IF	INSIDE FACE	PCR	POINT OF CURVE RETURN	SHT	SHEET	WF	WIDE FLANGE
_	AL	ALUMINUM	ELEC	ELECTRICAL	INCL	INCLUDED	PE	PLAIN END	SIM	SIMILAR	WH	WALL HYDRANT
	ALT	ALTERNATE	ENGR	ENGINEER	INCR	INCREASER	PERM	PERMANENT	SOTE	STANDARD OXYGEN TRANSFER EFFICIENCY	WL	WIND LOAD
	APPROX	APPROXIMATE	EOA	EDGE OF ASPHALT	INF	INFLUENT	PERP	PERPENDICULAR	SP	SPACE (ING)	WP	WEIR PLATE
	ARCH	ARCHITECT(URAL)	EOP	EDGE OF PAVEMENT	INSTL	INSTALLATION	PI	POINT OF INTERSECTION	SPEC	SPECIFICATION	WS	WETTED SURFACE
	ARV	AIR RELIEF VALVE	EQ	EQUAL	INSTR	INSTRUMENT	PL	PLATE OR PROPERTY LINE	SQ	SQUARE	WT	WEIGHT
	ASME	AMERICAN SOCIETY MECHANICAL ENGINEERS	EQUIP	EQUIPMENT	INSUL		PLBG	PLUMBING	SQ FT	SQUARE FOOT	WWF	
	ASPH	ASPHALT	EQUIV	EQUIVALENT		INVERT	PLYWD	PLYWOOD	SQ IN	SQUARE INCH	WWTP	
_	ASSY		ESMI	EASEMENT							X SECT	
	ASIM								SCI SCT	SULIDS RETEINTION TIME		
									SST BT			
G			EWS						ST	STREET		
	AVS		EXP.IT	EXPANSION JOINT	ко	KNOCKOUT	PREFIN	PREFINISHED	STA	STATION	_	
	AWG	AMERICAN WIRE GAGE	EXST	EXISTING	KWY	KEYWAY	PRELIM	PRELIMINARY	STD	STANDARD	-	
	BE	BELL END	EXST G	R EXISTING GRADE	L	LEFT OR LITER	PREP	PREPARATION	STL	STEEL	-	
	BF	BOTTOM FACE	EXT	EXTERIOR	LAB	LABORATORY	PROJ	PROJECT	STL JST	STEEL JOIST	_	
	BFD	BUTTERFLY DAMPER	F/F	FACE TO FACE	LAV	LAVATORY	PROP	PROPERTY	STL PL	STEEL PLATE	_	
	BFV	BUTTERFLY VALVE	FA	FOUL AIR	LB(S)	POUND(S)	PRS	PRESSURE REDUCING STATION	STRUCT	STRUCTURAL	_	
F	BLDG	BUILDING	FAD	FOUL AIR DUCT	LEL	LOW EXPLOSIVE LIMIT	PRV	PRESS. REDUCING VALVE OR PRESS. RELIEF VALVE	sv	SOLENOID VALVE	_	
	BLK	BLOCK	FCA	FLANGE COUPLING ADAPTER	LF	LINEAR FOOT	PS	PIPE SUPPORT	SVC	SERVICE	_	
	BLM	BUREAU OF LAND MANAGEMENT	FCS	FLUSH CONTROL STATION	LL	LIVE LOAD OR LOOSE LINTEL	PSF	POUNDS PER SQUARE FOOT	SWD	SIDE WATER DEPTH		
_	BM	BENCH MARK	FD	FLOOR DRAIN	LOC	LOCATION	PSI	POUNDS PER SQUARE INCH	SYMM	SYMMETRICAL		
	BOD	BIOCHEMICAL OXYGEN DEMAND	FDN	FOUNDATION	LP	LOW PRESSURE OR LIGHT POLE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	SYS	SYSTEM		
1	вот	воттом	FES	FLARED END SECTION	LR	LONG RADIUS	PSIG	POUNDS PER SQUARE INCH GAGE	T&B			
_	BOT BU	BOTTOM BELL UP	FES FF EL	FLARED END SECTION FINISH FLOOR ELEVATION	LR LS	LONG RADIUS LICENSED SURVEYOR	PSIG PSV	POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE	T&B T&G	TONGUE AND GROOVE		
E	BOT BU BV	BOTTOM BELL UP BALL VALVE	FES FF EL FH	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT	LR LS LT	LONG RADIUS LICENSED SURVEYOR LIGHT	PSIG PSV PT	POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY	T&B T&G T&P	TONGUE AND GROOVE TEMPERATURE AND PRESSURE	_	
E	BOT BU BV C/C	BOTTOM BELL UP BALL VALVE CENTER TO CENTER	FES FF EL FH FIN	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH	LR LS LT LT WT	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT	PSIG PSV PT PV	POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE	T&B T&G T&P T	TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE	-	
E	BOT BU BV C/C CCP	BOTTOM BELL UP BALL VALVE CENTER TO CENTER CONCRETE CYLINDER PIPE	FES FF EL FH FIN FIN FL	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH FINISH	LR LS LT LT WT LWL	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL	PSIG PSV PT PV PVC	POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE	T&B T&G T&P T TB	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM		
E	BOT BU BV C/C CCP CCW	BOTTOM BELL UP BALL VALVE CENTER TO CENTER CONCRETE CYLINDER PIPE COUNTER CLOCKWISE	FES FF EL FH FIN FIN FL FIN GR	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH FINISH FLOOR FINISH GRADE	LR LS LT LT WT LWL MAINT	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE	PSIG PSV PT PV PVC PVG	POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE PAVING	T&B T&G T&P T TB TBM	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK		
E	BOT BU BV C/C CCP CCW CFM	BOTTOM BELL UP BALL VALVE CENTER TO CENTER CONCRETE CYLINDER PIPE COUNTER CLOCKWISE CUBIC FEET PER MINUTE	FES FF EL FH FIN FIN FL FIN GR FL	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH FINISH FLOOR FINISH GRADE FLANGE	LR LS LT LT WT LWL MAINT MAN	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE MANUAL	PSIG PSV PT PV PVC PVG PVI	 POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE PAVING POINT OF VERTICAL CURVE INTERSECTION 	T&B T&G T&P T TB TBM TE	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY		
E	BOT BU C/C CCP CCW CFM CHKV	BOTTOM BELL UP BALL VALVE CENTER TO CENTER CONCRETE CYLINDER PIPE COUNTER CLOCKWISE CUBIC FEET PER MINUTE CHECK VALVE CAST IRON PIPE	FES FF EL FH FIN FIN FL FIN GR FL FLR	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH FINISH FLOOR FINISH FLOOR FINISH GRADE FLANGE FLOOR FEET PER MINI ITE	LR LS LT LT WT LWL MAINT MAN MATL MAY	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE MANUAL MATERIAL MAXIMUM	PSIG PSV PT PV PVC PVC PVG PVI PVI PVMT	POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE PAVING POINT OF VERTICAL CURVE INTERSECTION PAVEMENT	T&B T&G T&P T TB TBM TE TEMP	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO ELOOR ABOVE		
E	BOT BU BV C/C CCP CCW CFM CHKV CIP	BOTTOM BELL UP BALL VALVE CENTER TO CENTER CONCRETE CYLINDER PIPE COUNTER CLOCKWISE CUBIC FEET PER MINUTE CHECK VALVE CAST IRON PIPE	FES FF EL FH FIN FIN FL FIN GR FL FLR FLR FPM FPS	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH FINISH FLOOR FINISH FLOOR FINISH GRADE FLANGE FLOOR FEET PER MINUTE FEET PER SECOND	LR LS LT LT WT LWL MAINT MAN MATL MAX	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE MANUAL MATERIAL MAXIMUM MOTOR CONTROL CENTER	PSIG PSV PT PV PVC PVG PVI PVI PVMT Q AVG	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOW	T&B T&G T&P T TB TBM TBM TE TEMP TFA	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW		
E	BOT BU BV C/C CCP CCW CFM CHKV CIP CISP CJ	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECONSTRUCTION JOINT	FES FF EL FH FIN FIN FL FIN GR FIN GR FL FLR FLR FPM FPS	FLARED END SECTION FINISH FLOOR ELEVATION FIRE HYDRANT FINISH FINISH FLOOR FINISH FLOOR FINISH GRADE FLANGE FLOOR FEET PER MINUTE FEET PER SECOND FIBERGLASS REINFORCED PLASTIC	LR LS LT LT WT LWL MAINT MAN MATL MAX MCC MECH	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE MANUAL MATERIAL MAXIMUM MOTOR CONTROL CENTER MECHANICAL	PSIG PSV PT PV PVC PVG PVI PVI Q AVG Q MAX Q PEAK	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOW	T&B T&G T&P T TB TBM TE TEMP TFA TFB TFF	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW		
E	BOT BU C/C CCP CCW CFM CHKV CIP CISP CJ CL	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINK	FES FF EL FH FIN FIN FL FIN GR FL FLR FPM FPS FRP FT	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISHFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEET	LR LS LT LT WT LWL MAINT MAN MATL MAX MCC MECH MED	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE MANUAL MATERIAL MAXIMUM MOTOR CONTROL CENTER MECHANICAL MEDIUM	PSIG PSV PT PV PVC PVC PVG PVI PVMT Q AVG Q MAX Q PEAK QTR	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOWQUARTER	T&B T&G T&P T TB TBM TBM TE TEMP TFA TFA TFB TFF TH	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE		
E	BOT BU C/C CCP CCW CFM CHKV CIP CISP CJ CL CLR	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEAR	FES FF EL FH FIN FIN FL FL FL FLR FPM FPS FRP FT FTG	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISHFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETFOOTING OR FITTING	LR LS LT LT WT LWL MAINT MAN MATL MAX MCC MECH MED MFM	LONG RADIUS LICENSED SURVEYOR LIGHT LIGHTWEIGHT LOW WATER LEVEL MAINTENANCE MANUAL MATERIAL MAXIMUM MOTOR CONTROL CENTER MECHANICAL MAGNETIC FLOW METER	PSIG PSV PT PV PVC PVC PVG PVI PVI Q AVG Q AVG Q MAX Q PEAK QTR QTY	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOWQUARTERQUANTITY	T&B T&G T&P T TB TBM TBM TE TEMP TFA TFA TFB TFF TH THD	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED)		
E	BOT BU C/C CCP CCW CFM CHKV CIP CISP CJ CL CLR CLR CMP	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEARCORRUGATED METAL PIPE	FES FF EL FH FIN FIN FL FIN GR FL FLR FPM FPS FRP FT FTG	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISHFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETGAS	LR LS LT LT WT LWL MAINT MAN MATL MAX MCC MECH MED MFM MFR	LONG RADIUSLICENSED SURVEYORLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMATERIALMOTOR CONTROL CENTERMECHANICALMEDIUMMAGNETIC FLOW METERMANUFACTURER	PSIG PSV PT PV PVC PVG PVI QAVG Q MAX Q PEAK QTY RAD	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOWQUARTERQUANTITYRADIUS	T&B T&C T&P T TB TBM TE TEMP TFA TFB TFF TH THD THK	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK		
E	BOT BU BV C/C CCP CCW CFM CHKV CIP CISP CJ CL CL CLR CLR CMP CMU	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEARCONCRETE MASONRY UNIT	FES FF EL FH FIN FIN FL FIN GR FL FL FL FL FL FL FT FPS FT G GA	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFIRE HYDRANTFINISHFINISHFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETGASGAUGE	LR LS LT LT WT LWL MAINT MAN MATL MAX MCC MECH MED MFM MFR MG	LONG RADIUSLICENSED SURVEYORLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMATERIALMOTOR CONTROL CENTERMECHANICALMEDIUMMAGNETIC FLOW METERMANUFACTURERMILLION GALLONS OR MILLIGRAMS	PSIG PSV PT PV PVC PVG PVI QAVG QMAX QPEAK QTY RAD RC	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOWQUARTERQUANTITYRADIUSREINFORCED CONCRETE	T&B T&C T&P T TB TBM TE TEMP TFA TFB TFF TH THD THK TJ	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK TOP OF JOIST		
	BOT BU BV C/C CCP CCW CFM CHKV CIP CISP CJ CL CLR CLR CLR CMP CMU CO	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEARCONCRETE MASONRY UNITCLEAN OUT	FES FF EL FH FIN FIN FL FIN GR FL FT G GA GAL	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISHFINISH FLOORFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETGASGAUGEGALLON	LR LS LT LT WT LWL MAINT MAN MATL MAX MCC MECH MED MFM MFR MFR MG	LONG RADIUSLICENSED SURVEYORLIGHTLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMAXIMUMMOTOR CONTROL CENTERMECHANICALMEDIUMMAGNETIC FLOW METERMANUFACTURERMILLION GALLONS OR MILLIGRAMSMILLION GALLONS PER DAY	PSIG PSV PT PV PVC PVG PVI QAVG Q MAX Q PEAK QTY RAD RC RCP	 POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE PAVING POINT OF VERTICAL CURVE INTERSECTION PAVEMENT AVERAGE DAILY FLOW MAXIMUM DAILY FLOW PEAK HOUR FLOW QUARTER QUANTITY RADIUS REINFORCED CONCRETE PIPE 	T&B T&P T TB TBM TE TEMP TFA TFB TFF TH THD THK TOA	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK TOP OF JOIST TOP OF ASPHALT		
	BOT BU BV C/C CCP CCW CFM CHKV CIP CISP CJ CL CLR CLR CLR CMP CMU CO CONC	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEARCONCRETE MASONRY UNITCLEAN OUTCONCRETE	FES FF EL FH FIN FIN FL FIN GR FL FT FTG G GAL GALV	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISHFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETGASGAUGEGALUONGALVANIZED	LR LS LT LT WT LT WT LWL MAINT MAN MATL MAX MCC MECH MED MFR MFR MFR MG MGD	LONG RADIUSLICENSED SURVEYORLIGHTLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMATERIALMOTOR CONTROL CENTERMECHANICALMEDIUMMAGNETIC FLOW METERMANUFACTURERMILLION GALLONS OR MILLIGRAMSMILLION GALLONS PER DAYMANAGEMENT	PSIG PSV PT PV PVC PVG PVI QAVG QMAX QPEAK QTY RAD RC RD	 POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE PAVING POINT OF VERTICAL CURVE INTERSECTION PAVEMENT AVERAGE DAILY FLOW MAXIMUM DAILY FLOW PEAK HOUR FLOW QUARTER QUANTITY RADIUS REINFORCED CONCRETE REINFORCED CONCRETE PIPE ROOF DRAIN 	T&B T&P T TB TBM TE TEMP TFA TFB TFF TH THD THK TJ TOA TOC	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK TOP OF JOIST TOP OF ASPHALT TOP OF CONCRETE OR TOP OF CURB		
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	BOT BU C/C CCP CCW CFM CHKV CIP CISP CJ CL CLR CLR CLR CMP CMU CO CONC CONC CONSTR CONSTR	BOTTOMBELL UPBALL VALVECENTER TO CENTERCENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEARCONCRETE MASONRY UNITCLEAN OUTCONCRETECONCRETECONCRETECONSTRUCTIONCONCRETECONSTRUCTIONCONSTRUCTIONCONCRETECONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONSTRUCTIONCONTINUOUS(ATION)	FES FF EL FH FIN FIN FL FIN GR GA GALV GND GPM	FLARED END SECTIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISH FLOORFINISH FLOORFINISH GRADEFLANGEFLOORFLET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETGALUONGALLONS PER DAYGALONS PER MINUTEGALONS PER MINUTE	LR LS LT LTWT LWL MAINT MAINT MATL MATL MAR MECH MECH MECH MED MFM MFR MGD MGNT MGNT MIRN MIN MISC	LONG RADIUSLICENSED SURVEYORLIGHTLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMATERIALMATOR CONTROL CENTERMECHANICALMEDIUMMANUFACTURERMANUFACTURERMILLION GALLONS OR MILLIGRAMSMILLION GALLONS PER DAYMANAGEMENTMANHOLEMINIMUMMISCELLANEOUS	PSIG PSV PT PV PVC PVG PVG PVI QAVG QMAX QTR QTY RAD RCP RECT RED RE:	 POUNDS PER SQUARE INCH GAGE PRESSURE SUSTAINING VALVE POINT OR POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVE PAVING POINT OF VERTICAL CURVE INTERSECTION PAVEMENT AVERAGE DAILY FLOW MAXIMUM DAILY FLOW PEAK HOUR FLOW QUARTER QUANTITY RADIUS REINFORCED CONCRETE REINFORCED CONCRETE PIPE ROOF DRAIN RECTANGULAR REFER TO 	T&B T&P T TB TBM TE TEMP TFA TFF THU THK TJ TOA TOE TOF TOF TOS	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK TOP OF JOIST TOP OF ASPHALT TOP OF CONCRETE OR TOP OF CURB THREADED ONE END TOP OF FOOTING TOP OF STEEL		
	BOT BU BV C/C CCP CCW CFM CHKV CIP CISP CJ CL CL CLR CLR CLR CLR CMP CMU CO CONC CONC CONC CONSTR CONSTR CONT	BOTTOMBELL UPBALL VALVECENTER TO CENTERCONCRETE CYLINDER PIPECOUNTER CLOCKWISECUBIC FEET PER MINUTECHECK VALVECAST IRON PIPECAST IRON SOIL PIPECONSTRUCTION JOINTCENTER LINE OR CHAIN LINKCLEARCONCRETE MASONRY UNITCLEAN OUTCONCRETECONNECTIONCONCRETECONNECTIONCONSTRUCTIONCONCRETECONSTRUCTION <tr< th=""><th>FES FF EL FH FIN FIN FL FIN GR FIN GR FIN GR FIN GR FIN GR FIN GR GAL GALV GND GPM GR</th><th>FLARED END SECTIONFINISH FLOOR ELEVATIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISH FLOORFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETFOOTING OR FITTINGGASGALLONGALLONS PER DAYGALONS PER MINUTEGRIT</th><th>LR LS LT LTWT LWL MAINT MAIN MATL MACC MECH MECH MFR MGD MFR MGD MGD MGD MGMT MGMT MIN MIN MISC MJ</th><th>LONG RADIUSLICENSED SURVEYORLIGHTLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMATERIALMOTOR CONTROL CENTERMECHANICALMEDIUMMARUFACTURERMANUFACTURERMILLION GALLONS OR MILLIGRAMSMILLION GALLONS PER DAYMANHOLEMINIMUMMISCELLANEOUSMECHANICAL JOINT</th><th>PSIG PSV PT PV PVC PVG PVI QAVG QAVG QTR QTY RAD RC RCP RECT REE REF</th><th>POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOWQUARTERQUANTITYRADIUSREINFORCED CONCRETEREINFORCED CONCRETE PIPEROOF DRAINRECTANGULARREFER TOREFERENCE</th><th>T&B T&P T TB TBM TE TEMP TFA TFF THU THR TOC TOE TOF TOS TOW</th><th>TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK TOP OF JOIST TOP OF ASPHALT TOP OF CONCRETE OR TOP OF CURB THREADED ONE END TOP OF STEEL TOP OF WALL</th><th></th><th></th></tr<>	FES FF EL FH FIN FIN FL FIN GR FIN GR FIN GR FIN GR FIN GR FIN GR GAL GALV GND GPM GR	FLARED END SECTIONFINISH FLOOR ELEVATIONFINISH FLOOR ELEVATIONFIRE HYDRANTFINISHFINISH FLOORFINISH FLOORFINISH GRADEFLANGEFLOORFEET PER MINUTEFEET PER SECONDFIBERGLASS REINFORCED PLASTICFEETFOOTING OR FITTINGGASGALLONGALLONS PER DAYGALONS PER MINUTEGRIT	LR LS LT LTWT LWL MAINT MAIN MATL MACC MECH MECH MFR MGD MFR MGD MGD MGD MGMT MGMT MIN MIN MISC MJ	LONG RADIUSLICENSED SURVEYORLIGHTLIGHTLIGHTWEIGHTLOW WATER LEVELMAINTENANCEMANUALMATERIALMATERIALMOTOR CONTROL CENTERMECHANICALMEDIUMMARUFACTURERMANUFACTURERMILLION GALLONS OR MILLIGRAMSMILLION GALLONS PER DAYMANHOLEMINIMUMMISCELLANEOUSMECHANICAL JOINT	PSIG PSV PT PV PVC PVG PVI QAVG QAVG QTR QTY RAD RC RCP RECT REE REF	POUNDS PER SQUARE INCH GAGEPRESSURE SUSTAINING VALVEPOINT OR POINT OF TANGENCYPLUG VALVEPOLYVINYL CHLORIDE OR POINT OF VERTICAL CURVEPAVINGPOINT OF VERTICAL CURVE INTERSECTIONPAVEMENTAVERAGE DAILY FLOWMAXIMUM DAILY FLOWPEAK HOUR FLOWQUARTERQUANTITYRADIUSREINFORCED CONCRETEREINFORCED CONCRETE PIPEROOF DRAINRECTANGULARREFER TOREFERENCE	T&B T&P T TB TBM TE TEMP TFA TFF THU THR TOC TOE TOF TOS TOW	TOP AND BOTTOM TONGUE AND GROOVE TEMPERATURE AND PRESSURE TEE TOP OF BEAM TEMPORARY BENCH MARK TOP ELEVATION TEMPORARY TO FLOOR ABOVE TO FLOOR BELOW TOP OF FINISH FLOOW TEST HOLE THREAD (ED) THICK TOP OF JOIST TOP OF ASPHALT TOP OF CONCRETE OR TOP OF CURB THREADED ONE END TOP OF STEEL TOP OF WALL		
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	PROCESS DESIGNATORS	PIPE SYMBOLS	PIPE SYMBOLS			DISCIPLINE DESIGNATORS		
	PROCESS SHEETS (WASTEWATER)	DESIGNATOR	DESCRIPTION	SINGLE LINE	DOUBLE LINE	DISCIPLINE	DESIGNATOR	
	NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0				GENERAL	G	
	PRELIMINARY TREATMENT	1			- Y	HAZARDOUS MATERIALS	Н	
1BER	PRIMARY TREATMENT	2				INSTRUMENTATION	I	
	BIOLOGICAL TREATMENT	3	EXISTING ABOVE GRADE PIPE		- 2	DEMOLITION	X	
ICE	SECONDARY TREATMENT	4			~>	SURVEY/MAPPING	V	
	TERTIARY TREATMENT	5			- 22	GEOTECHNICAL	В	
	DISINFECTION AND EFFLUENT PUMPING	6				CIVIL	С	
	SLUDGE STORAGE AND PROCESSING	7	NEW ABOVE GRADE PIPE		- 20	LANDSCAPE	L	
	MISCELLANEOUS SYSTEMS	8				STRUCTURAL	S	
	DETAILS / SCHEDULES	9				ARCHITECTURAL	A	
						FIRE PROTECTION	F	
CE	CIVIL DESIGNATORS		FLANGED JOINT			MECHANICAL	М	
	CIVIL	DESIGNATOR				PLUMBING	Р	
	NOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.	0				PROCESS	D	
	SITE PLAN AND GEOMETRIC CONTROLS	1				ELECTRICAL	E	
AN/DETAIL NOWBER	GRADING AND DRAINAGE	2						
ENCE	UTILITIES/YARD PIPING	3				GENERAL NOTES		
	ROAD PLAN AND PROFILES (IF REQUIRED)	4						
ED	ROAD CROSS SECTIONS (IF REQUIRED)	5				PROPOSAL AND SITE OF THE WO	DIG GAREFULLY EXAMINE THE PI DRK. THEREFORE, IT WILL BE ASS'	
	SEDIMENT AND EROSION CONTROL	6				THAT THE BIDDER HAS SATISFIE BE ENCOUNTERED IN REGARDS	D HIMSELF AS TO THE CONDITION TO THE CHARACTER, QUALITY	
	RESERVED	7				QUANTITIES OF WORK TO BE	PERFORMED AND MATERIALS T	
	RESERVED	8				SPECIFICATIONS, SPECIAL F	ROVISIONS AND CONTRACT.	

CIVILDESIGNATORNOTES, LEGEND, ABBREVIATIONS, DEMOLITION, EXISTING CONDITIONS, ETC.0SITE PLAN AND GEOMETRIC CONTROLS1GRADING AND DRAINAGE2UTILITIES/YARD PIPING3ROAD PLAN AND PROFILES (IF REQUIRED)4ROAD CROSS SECTIONS (IF REQUIRED)5SEDIMENT AND EROSION CONTROL6RESERVED7RESERVED8DETAILS / SCHEDULES9	CIVIL DESIGNATORS	
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GRADING AND DRAINAGE2UTILITIES/YARD PIPING3ROAD PLAN AND PROFILES (IF REQUIRED)4ROAD CROSS SECTIONS (IF REQUIRED)5SEDIMENT AND EROSION CONTROL6RESERVED7RESERVED8DETAILS / SCHEDULES9	SITE PLAN AND GEOMETRIC CONTROLS	1
UTILITIES/YARD PIPING3ROAD PLAN AND PROFILES (IF REQUIRED)4ROAD CROSS SECTIONS (IF REQUIRED)5SEDIMENT AND EROSION CONTROL6RESERVED7RESERVED8DETAILS / SCHEDULES9	GRADING AND DRAINAGE	2
ROAD PLAN AND PROFILES (IF REQUIRED)4ROAD CROSS SECTIONS (IF REQUIRED)5SEDIMENT AND EROSION CONTROL6RESERVED7RESERVED8DETAILS / SCHEDULES9	UTILITIES/YARD PIPING	3
ROAD CROSS SECTIONS (IF REQUIRED)5SEDIMENT AND EROSION CONTROL6RESERVED7RESERVED8DETAILS / SCHEDULES9	ROAD PLAN AND PROFILES (IF REQUIRED)	4
SEDIMENT AND EROSION CONTROL6RESERVED7RESERVED8DETAILS / SCHEDULES9	ROAD CROSS SECTIONS (IF REQUIRED)	5
RESERVED7RESERVED8DETAILS / SCHEDULES9	SEDIMENT AND EROSION CONTROL	6
RESERVED 8 DETAILS / SCHEDULES 9	RESERVED	7
DETAILS / SCHEDULES 9	RESERVED	8
	DETAILS / SCHEDULES	9

OWNER

•••••			
DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
CITY MANAGER	MATTHEW HAILEY	706.423.5125	MHAILEY@COMMERCEGA.GOV
WWTP SUPERINTENDENT	TAD EDMONSON	770.374.3288	TEDMONSON@COMMERCEGA.GOV

CONTRACTOR

DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	TBD		
SUPERINTENDENT	TBD		
		·	•
ENGINEER			
DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	CHARLES WELCH	770.952.2481 EXT. 103	CHARLES.WELCH@GMCNETWO RK.COM
ENGINEER	GRAHAM SIZEMORE, PE	770.952.2481 EXT. 143	GRAHAM.SIZEMORE@GMCNETW ORK.COM

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DESCRIPTION	NAME	PHONE NUMBER	EMAIL ADDRESS
PROJECT MANAGER	CHARLES WELCH	770.952.2481 EXT. 103	CHARLES.WELCH@GMCNETWO RK.COM
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INSPECTOR	TONY VAN DE RYT	770.952.2481 EXT. 110	TONY.VANDERYT@GMCNETWOR K.COM

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HATCHING LEGEND EXISTING PROPOSED DESCRIPTION ASPHALT PAVING (PLAN) ALUMINUM GRATING CONCRETE (ELEVATION) والمعادية الإستانية المعادية والمعادية 4, . • CONCRETE (PLAN) A . . . A · · · • · • · • · • · • CONCRETE (SECTION) CRUSHED STONE (SECTION) EARTH OR BACKFILL (SECTION) GRAVEL DRIVE (PLAN) GROUT FILL (PLAN & SECTION) PUUUUU \frown LAKE, RIVER OR POND (PLAN) REMOVAL OR DEMOLITION (PLAN & SECTION)

UNPAVED DRIVE (PLAN)

- BID.

فوالمناج ويترقع فأنجم والمجتر ومتدونه والمراجع والمراجع

SUBMISSION OF A PROPOSAL BY A BIDDER WILL BE CONSIDERED PRIMA FACIE EVIDENCE THAT THE BIDDER HAS MADE SUCH AN EXAMINATION.

2. THE CONTRACTOR IS REQUIRED TO MAINTAIN AN AS-BUILT SET OF DRAWINGS DURING PROJECT CONSTRUCTION. THE COMPLETE AS-BUILT MAP WILL CONTAIN ALL INSTALLED ELECTRICAL, STRUCTURAL ENTITIES, LINES, VALVES, METERS, AND CONNECTIONS WITH REFERENCE DISTANCES TO PERMANENT ABOVE GROUND STRUCTURES.

3. ALL EXISTING UTILITIES SHOWN ABOVE AND BELOW GROUND ARE APPROXIMATE AND ARE NOT NECESSARILY ALL THAT EXIST. THE DETERMINATION OF THE EXISTENCE, LOCATION, AND DEPTH OF ALL UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED BY CONTRACTOR FOR ONE YEAR AFTER ACCEPTANCE BY THE OWNER PER SPECIFICATION 1030.

5. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE CIVIL DRAWINGS AND THE ARCHITECTURAL/STRUCTURAL DRAWINGS, THE ARCHITECTURAL/STRUCTURAL DRAWINGS SHALL HAVE PRECEDENCE. THE CONTRACTOR SHALL ADVISE THE ENGINEER OF ANY CONFLICT IN THE PLANS/SPECS FOR CLARIFICATION PRIOR TO BID. SHOULD CONFLICTING DOCUMENTS NOT BE CLARIFIED AT THE REQUEST OF THE BIDDING CONTRACTOR, THE MORE COSTLY ALTERNATIVE AS IDENTIFIED IN THE PLAN & SPECS SHALL BE INCLUDED IN THE PRICE

6. ALL HAZARDOUS SUBSTANCES USED FOR THIS PROJECT, INCLUDING, BUT NOT LIMITED TO, PAINT, OIL, GREASE, AND OTHER PETROLEUM PRODUCTS SHALL BE STORED IN ACCORDANCE WITH "SPILL PREVENTION, CONTROL & COUNTERMEASURE" REGULATIONS. THESE SUBSTANCES SHALL BE STORED AWAY FROM STORM DRAINS, DITCHES, AND GUTTERS IN WATERTIGHT CONTAINERS. DISPOSAL OF THESE SUBSTANCES SHALL BE IN ACCORDANCE WITH STATE & FEDERAL AGENCY REGULATIONS. CONTRACTOR SHALL PROVIDE ADEQUATE TRASH CONTAINERS ON SITE FOR THE DISPOSAL OF CONSTRUCTION MATERIALS WASTE. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY TRASH OR OTHER POLLUTANTS FROM ENTERING STORM DRAINS & WATERS OF THE STATE.



1 2 5 4 5	6 /	8	9	10	11		12
SPECIFICATIONS	SPECIFICATIONS				ABBRE	EVIATIC	NS
GENERAL	DOMESTIC WATER SYSTEMS AND ACC	ESSORIES			AAV	AIR ADMITT	TANCE VALVE
ALL WORK SHALL COMPLY WITH ALL STATE, CITY AND LOCAL CODES, RULES AND REGULATIONS. CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND INSPECTIONS ASSOCIATED WITH THIS WORK, AND SHALL PAY ALL COSTS AND FEES INVOLVED.	THE PRIMARY SPECIFICATION FOR DON DRAWN COPPER TUBING, ASTM B88, V	MESTIC WATER PIPING SHALL BE WROUGHT SOLDER JOINTS, ANS	AS FOLLOWS: WATER PIPING	ABOVE FLOOR: TYPE 'L' HARD OW FLOOR: TYPE 'K SOFT	A/C	ABOVE CEI	ILING
ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE BEST RECOGNIZED PRACTICE IN THE FIELD CONCERNED. MANUFACTURED ITEMS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED DIRECTIONS, SPECIFICATIONS AND RECOMMENDATIONS.	DRAWN COPPER TUBING, WITH NO JOIN	INTS BELOW SLAB, ASTM B88.			AVF	ABOVE FLC	JOR
CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND SHALL BE FAMILIAR WITH THE SCOPE AND REQUIREMENTS OF THIS PROJECT. ANY DISCREPANCIES OR LACK OF CLARITY IN THE DOCUMENTS SHALL BE IDENTIFIED TO THE ARCHITECT OR ENGINEER PRIOR TO THE SUBMISSION OF PRICING BIDS. WITH A SUBMITTED	AS AN ALTERNATE TO THE PRIMARY SP PLUMBING CONTRACTOR SHALL LIST E USE OF ANY ALTERNATE SHALL BE AT T	PECIFICATION FOR WATER PIPING EACH SYSTEM AS A SEPARATE LII THE SOLE DISCRETION OF THE O	5, THE FOLLOWING MAY BE US NE ITEM AS AN ALTERNATE FO WNER. SERVICE PIPING BELO	DED IN WHOLE OR IN PART. THE DR THE OWNER'S SELECTION. DW GRADE: CPVC (CHLORINATED	AFF, AFG	ABOVE FIN	IISHED FLOOR/GRAD
BID, CONTRACTOR IS ACCEPTING THESE DOCUMENTS AS SUFFICIENT DEFINITION OF THE SCOPE OF WORK, AND ANY ADDITIONAL COSTS BASED ON UNCLARITY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.	POLYVINYL CHLORIDE) SCHEDULE 40 W ASTM F 44 I . HOT AND COLD WATER	WHEN APPROVED BY THE AUTHOR PIPING ABOVE FLOOR: CPVC (CH	RITY HAVING JURISDICTION. S HLORINATED POLYVINYL CHLO	SHALL MEET ASTM D284G AND RIDE) SCHEDULE 40 WITH	B/F, B/G	BELOW FLC)OR/GRADE
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS FOR EQUIPMENT INSTALLATION PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS. ALL EQUIPMENT AND DEVICES SHALL BE INSTALLED SUCH THAT THEY ARE EASILY ACCESSIBLE AND SERVICABLE. THIS EQUIPMENT INCLUDES. BUT IS NOT LIMITED TO: PLUMBING	D SOLVENT WELD JOINTS WHEN APPROV BE CERTIFIED BY THE NSF INTERNATION PIPING SHALL MEET ASTM F437, ASTM	/ED BY THE AUTHORITY HAVING J NAL FOR USE WITH POTABLE WA M F438 AND ASTM F439. WATE	JURISDICTION. PIPING SHALL TER SYSTEMS. SOLVENT CEN R PIPING ABOVE FLOOR: CRO	MEET ASTM D 2848 AND SHALL MENTS FOR CPVC PLASTIC DSS-LINKED POLYETHYLENE (PEX)	BFP	BACKFLOW	/ PREVENTER
FIXTURES, WATER HEATERS, EXPANSION TANKS, PUMPS, BACKFLOW PREVENTERS, VALVES, MIXING VALVES, THERMOMETERS, GAUGES, TRAP PRIMERS AND CLEANOUTS.	TUBING, SHALL COMPLY WITH ASTM F CROSS-LINKED POLYETHYLENE (PEX) TL	876, ASTM F 877; CSA B I 37. UBING, SHALL COMPLY WITH AST	5. HOT AND COLD WATER PIF M F 876, ASTM F 877; CSA	PING ABOVE FLOOR: B137.5.	CD	CONDENSA	ATE DRAIN
THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE FULL SET OF CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL ELECTRICAL DRAWINGS (AS APPLICABLE) TO ENSURE ALL PLUMBING WORK IS COORDINATED WITH PHYSICAL CONDITIONS AND ALL OTHER TRADES.	ALL DOMESTIC HOT WATER PIPING SHA	ALL HAVE A MINIMUM PRESSURE	RATING OF 100PSI AT 180°F	F.	CONT	CONTINUAT	FION
THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL DRAWINGS TO ENSURE THERE IS ADEQUATE WALL THICKNESS SUCH THAT ALL PIPING,	DOMESTIC WATER PIPING SHALL BE TE DELETERIOUS MATTER AND DISINFECTE	ESTED IN ACCORDANCE WITH ALL ED PRIOR TO UTILIZATION. PIPIN	GOVERNING CODES. PIPING	SHALL BE PURGED OF LIZED IN ACCORDANCE WITH IPC			
ARCHITECT IF WALL SPACE IS INADEQUATE PRIOR TO COMMENCING WORK.	BALL VALVES SHALL BE TWO-PIECE BR	RONZE BODY, LARGE PORT WITH S	SOLID, SMOOTH BORE CHRO	ME PLATED BRASS BALL. SEATS	FT	FXPANSION	 N TANK
THE CONTRACTOR SHALL OBTAIN EXACT WALL, FIXTURE, AND LAYOUT DIMENSIONS FROM THE ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ROUGH-IN AND INSTALLATION DRAWINGS FOR ALL PLUMBING FIXTURES, KITCHEN EQUIPMENT AND OWNER FURNISHED EQUIPMENT (AS APPLICABLE), AND SHALL COORDINATE THE PLUMBING INSTALLATION PRIOR TO COMMENCING THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLATION PRIOR TO COMMENCING THE WORK.	R SHALL BE REINFORCED TFE WITH TEFLO D NEEDED TO PROVIDE HANDLE ON OUTS	ON PACKING RING AND THREADE SIDE OF PIPE INSULATION. VALV	D ADJUSTABLE PACKING NUT. /ES SHALL BE APOLLO 70 OR	. PROVIDE STEM EXTENSION AS EQUAL.	EWC	ELECTRIC W	WATER COOLER
NECESSARY VALVES, CONNECTIONS, TRAPS, ACCESS PANELS, UNIONS, ESCUTCHEONS, WATER HAMMER ARRESTORS, VACUUM BREAKERS, RELIEF VALVES, PIPE INSULATION, AND EQUIPMENT SPECIALTY DEVICES AS REQUIRED TO FACILITATE COMPLETE AND OPERATIONAL CONDITIONS WHICH ARE IN STRICT COMPLIANCE WITH	H BACKFLOW PREVENTERS SHALL BE INS PREVENTERS WITH VENT CONNECTIONS	STALLED IN ACCESSIBLE LOCATIC IS, ROUTE VENT LINE TO NEARES	DNS FOR EASE OF TESTING AN T DRAIN AND DISCHARGE WITI	ND SERVICING. FOR BACKFLOW H AIR GAP. BACKFLOW	ex.	EXISTING	
THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.	PREVENTERS SHALL BE TESTED IN ACC DEVICES HAVE BEEN TESTED AND APPI	CORDANCE WITH IPC 312.10.2. PROVED.	CONTRACTOR SHALL PROVID	DE CERTIFICATIONS THAT STATE	FCO	FLOOR CLE	
AND EXACT LOCATIONS OF EQUIPMENT AND FIXTURES. PROVIDE NECESSARY PIPING OFFSETS TO COORDINATE WITH THE BUILDING STRUCTURE, WORK OF OTHER TRADES, AND CONNECTION TO SITE UTILITIES (AS APPLICABLE).	THERMOMETERS SHALL BE 9" ADJUST DIAL SIZE, O-I GOPSI (TRERICE GOOCB	ABLE ANGLE, 30°-180°F RANGE (OR EQUAL).	(TRERICE BX9 OR EQUAL). PR	RESSURE GAUGES SHALL BE $4/_2$ "	FD	FLOOR DRA	AIN
COORDINATE THE ELECTRICAL REQUIREMENTS AND CHARACTERISTICS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL CONTRACTOR PRIOR TO ISSUING	CONTRACTOR SHALL FIELD VERIFY INC	COMING DOMESTIC WATER PRESS	SURE TO CONFIRM ADEQUATE	E PRESSURE TO SERVE THE	FHB	FREEZEPRO)OF HOSE BIBB
UNLESS NOTED OTHERWISE, ALL DRAINAGE PIPING SHALL BE SLOPED AT A MINIMUM OF 🔏 " PER FOOT. 2" SANITARY PIPING AND ALL GREASE WASTE PIPING SHALL B	EXCEEDS 80PSI, PROVIDE PRESSURE F	REGULATING VALVE (WATTS LF22	23) AND UPSTREAM STRAINER	R (WATTS LSF777).	FS	FLOOR SIN	IK
SLOPED AT $Z_{\rm T}$ PER FOOT.	CONTRACTOR SHALL FIELD COORDINA SUPPLIES TO FIXTURES OR GROUPS O	TE LOCATION OF ACCESSIBLE IS OF FIXTURES SUCH THAT THEY MA THER VALVES INSTALLED IN LOCAT	OLATION VALVES ON DOMES AY BE SHUT OFF FOR SERVICI	TIC HOT & COLD WATER ING. SERVICE AND HOSE BIBB	FRH	FREEZEPRO)OF ROOF HYDRAN
ACCORDANCE WITH IPC 610.1 AND ALL APPLICABLE LOCAL AND STATE HEALTH DEPARTMENT STANDARDS.	IDENTIFIED, INDICATING THE FIXTURE(S	5) SERVED.	TIONS THAT ARE NOT ADJACE	INT TO THE FIXTURE(3) SHALL DE	FWH	FREEZEPRO)OF WALL HYDRANT
ALL DOMESTIC WATER PIPING, SANITARY P-TRAPS AND GREASE WASTE PIPING SUBJECT TO FREEZING SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. CONDENSATE PIPING SUBJECT TO FREEZING WITHIN WALK-IN FREEZERS SHALL BE INSULATED AND PROVIDED WITH HEAT TRACE. PIPING INSTALLED IN EXTERIOR	RETURN AIR PLENUMS ALL EXPOSED MATERIALS WITHIN RETU	JRN AIR PLENUMS SHALL BE NON	ICOMBUSTIBLE OR HAVE A FL	AME SPREAD INDEX OF NOT	GCO	GRADE CLE	EANOUT
WALLS STALL DE WAAT ED IN TETTICK THE INSULATION AND DE LOCATED ON THE INTERIOR SIDE OF THE BUILDING INSULATION. IF INSTALLED IN EXTERIOR DEOCK WALLS, INTERSTITIAL SPACES SHALL BE FILLED WITH FOAM INSULATION.	E84/UL723. COPPER AND CAST IRON AIR PLENUM LOCATIONS WITH THE MED	I PIPING IS APPROVED. THE CON CHANICAL CONTRACTOR.	ITRACTOR IS RESPONSIBLE FO	OR COORDINATING ALL RETURN	GI	GREASE INT	TERCEPTOR
IN CONCEALED LOCATIONS WHERE PIPING, OTHER THAN CAST-IRON OR GALVANIZED STEEL, IS INSTALLED THROUGH HOLES OR NOTCHES IN STUDS, JOISTS, OR SIMILAR MEMBERS LESS THAN 1/2" FROM THE NEAREST EDGE OF MEMBER, PIPE SHALL BE PROTECTED BY STEEL SHIELD PLATES IN ACCORDANCE WITH IPC 305.6.					HB	HOSE BIBB	3
PIPE PENETRATIONS THROUGH FIRE RATED WALLS OR FLOORS SHALL HAVE EQUIVALENTLY RATED SLEEVES AND SHALL BE SEALED AND FIRE CAULKED WITH A U.L. LISTED FIRE STOPPING SYSTEM INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTED DETAILS AND SPECIFICATIONS.	UP TO $I_{4}^{\prime\prime}$: I" THICK INSULATION. PIPE	$\mathbb{Z}^{\mathbb{Z}}$ or larger: $\mathbb{Z}^{\mathbb{Z}}$ thick ins	SULATION	THESE TABLE CHOS.2.TO. THE	HD	HUB DRAIN	-
THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE REQUIREMENTS OF THE COUNTY HEALTH DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING	INSULATE ALL HORIZONTAL COLD WATE EXPOSED PIPING (I.E. MECH ROOMS). DRAINAGE PIPING INSTALLED IN EXTERIO	ER PIPING LOCATED ABOVE CEILI PIPE UP TO I ": 2" THICK. PIPING	ING, VERTICAL PIPING LOCATE $G I_4''$ AND OVER: I'' THICK INS N I'' THICK PIPE INSULATION A	D IN AN EXTERIOR WALL, SULATION. ALL WATER AND	HW	HOT WATER	
THE ARCHITECT OR ENGINEER PRIOR TO COMMENCING WITH THE WORK.	INTERIOR SIDE OF THE BUILDING INSUL WITH FOAM INSULATION.	LATION. IF INSTALLED IN EXTERIC	OR BLOCK WALLS, INTERSTITIA	AL SPACES SHALL BE FILLED			
CONTRACTOR SHALL CONFIRM PLUMBING FIXTURE FINISHES WITH THE ARCHITECTURAL SCHEDULES & DETAILS (AS APPLICABLE).	ALL JOINTS SHALL BE SEALED WITH MA	ATCHING VAPOR BARRIER TAPE.			LEGEN	D	
SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY, OR PROBLEMS WHICH ARISE FROM OTHER'S FAILURE TO OBTAIN AND/OR FOLLOW PROFICIENT'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES OR CONFLICTS WHICH ARE ALLEGED. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC	C INSULATION SHALL HAVE A K-FACTOR	(AVERAGE THERMAL CONDUCTIV	(ITY) NOT TO EXCEED 0.27 BT	U-IN/HR x SQFT x °F.			COLD WATER PIPE
SUBMITTALS	PROTECTION OF PIPING PIPING PASSING UNDER FOOTINGS OR THAN THE PIPE. OPEN ENDS OF SLEEV	R THROUGH FOUNDATION WALLS	SHALL BE PROVIDED WITH A S	SLEEVE TWO PIPE SIZES LARGER			HOT WATER PIPE
FURNISH SHOP DRAWINGS FOR MANUFACTURED PRODUCTS. ALL ITEMS SHALL BE CLEARLY MARKED TO MATCH EQUIPMENT MARKS ON THE PLUMBING DRAWINGS. ALL OPTIONS MUST BE CLEARLY MARKED ON THE SUBMITTAL SHEET. A MODEL NUMBER LISTING ON A COVER SHEET IS NOT AN ACCEPTABLE SUBSTITUTE FOR	FLOORS OR OTHER CORROSIVE MATER THROUGH HOLES OR NOTCHES IN STL	RIAL SHALL BE PROTECTED IN AC JDS, JOISTS, RAFTERS OR SIMIL	CCORDANCE WITH IPC 305.1. AR MEMBERS SHALL BE PROT	ALL PIPING INSTALLED FECTED BY STEEL SHIELD PLATES			HOT WATER RETL
SUBMITTAL REVIEW IS CONSIDERED A GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE	WITH COMPRESSION/EXPANSION FITTIN SERIES OR EQUAL).	NGS AND PIPE CLAMPS INSTALLE	DRUCTION SHALL BE PROTECT D PER MANUFACTURER'S REC	COMMENDATIONS (FERNCO XJ	s		SANITARY PIPE
INSTALLATION AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN SUBSTITUTED EQUIPMENT IS INSTALLED, CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION OR ADDITIONAL COST BROUGHT ON BY THE USE OF THIS EQUIPMENT.	TANK TYPE WATER HEATERS						VENT PIPE
HANGERS AND SUPPORTS HANGERS SHALL BE COMPLETE WITH RODS AND SUPPORTS PROPORTIONED TO THE SIZE OF PIPE TO BE SUPPORTED, IN ACCORDANCE WITH THE MANUFACTURER'S	AND CURRENT EDITION OF ASHRAE/IES	5 AND SHALL MEET OR EXCEED IN SNA 90.1.	TE STANDOT LOSS REQUIREM	IENTS OF U.S. DEFT. OF ENERGY		V	GREASE WASTE F
RECOMMENDATIONS.	WATER HEATERS SHALL HAVE I 50PSI TEMPERATURE CUTOFF SWITCH. WATE OTHERWISE NOTED WATER HEATERS	WORKING PRESSURE AND BE EG ER HEATERS SHALL BE THERMOS	QUIPPED WITH EXTRUDED HIGH STATICALLY CONTROLLED AND	1 DENSITY ANODE ROD AND HIGH SET TO 120° UNLESS	F		FIRE SPRINKLER F
INSULATION. PROVIDE A RIGID INSERT OR RIGID INSULATION AT EACH INSULATION PROTECTOR.	INDICATED ON DRAWINGS.	STALL DE INSTALLED ON SUST LI	NDED I LATI ONNI, STELE STAN	ND OK CONCRETE TAD, AS		/ <u> </u>	
WHERE SEVERAL PIPES 2½" AND SMALLER RUN PARALLEL AND IN THE SAME PLANE, THEY MAY BE SUPPORTED ON GANG OR MULTIPLE HANGERS. LARGER PIPING SHALL BE INDEPENDENTLY HUNG, RUN PARALLEL AND BE EQUALLY SPACED.	WATER HEATERS SHALL HAVE A MINIM	IUM 3 YEAR LIMITED WARRANTY.			FV	/ <u> </u>	FILTERED WATER
PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH IPC SECTION 308, AND SPACING OF HANGERS SHALL NOT EXCEED THE LIMITS SET FORTH IN TABLE 308.5. PIPES SHALL BE SUPPORTED WITHIN 1'-0" OF EACH ELBOW.	MANUFACTURER'S RECOMMENDED CLE SERVICING.	EARANCES, AND INSTALL SUCH T	THAT CONTROLS AND DEVICES	5 ARE ACCESSIBLE FOR			PIPE UP / PIPE DC
VERTICAL PIPE SUBJECT TO MOVEMENT SHALL BE SUPPORTED FROM THE WALL BY MEANS OF A PIPE CLAMP.	INSTALL SHUTOFF VALVES IN COLD WA	ATER INLET AND HOT WATER OUT	LET. INSTALL THERMOMETER	ON HOT WATER OUTLET.			PIPE TEE FROM T
SUPPORT DOMESTIC WATER PIPING IN SPACES BEHIND PLUMBING FIXTURES BY BRACKETS AND U-BOLTS SECURED TO WASTE AND VENT STACKS. SIZE U-BOLTS TO BEAR ON THE PIPING.	O (FACTORY OR FIELD INSTALLED). PIPE EXTERIOR. MAINTAIN CONTINUOUS DO	RELIEF VALVE OUTLET TO FLOOR OWNWARD PITCH TOWARD DISCH	C DRAIN, MOP SINK, INDIRECT HARGE LOCATION, AND PROVI	WASTE RECEPTOR OR TO IDE AIR GAP AT DISCHARGE	E	<u> </u>	PIPE CAP / PIPE C
AFTER HANGER RODS ARE INSTALLED IN FINISHED CONCRETE CEILING, FILL THE REMAINING OPENING WITH CEMENT SO THAT NO HOLE SHOWS AT THE CEILING.	DISCHARGE WITH AIR GAP.	RAIN PAN IS INDICATED ON PLANS	5, ROUTE DRAIN TO SAME LOO	CATION AS RELIEF VALVE AND			DIRECTIONAL FLC
WHERE COPPER PIPING IS USED, NONFERROUS METAL SUPPORT(S) OR PROPER ISOLATION BETWEEN DISSIMILAR MATERIALS SHALL BE PROVIDED.	WASTE AND VENT PIPING SYSTEMS AN SANITARY PIPING SHALL BE PVC SCHEI	N <u>D ACCESSORIES</u> EDULE 40 SOLID WALL PIPE AND E	DWV FITTING SYSTEM.				BALL VALVE / CHI
STANDARDIZATION SOCIETY STANDARD PRACTICES NO. SP-69 AND SP-58.	PIPE AND FITTINGS SHALL BE MANUFAC CONFORM WITH NATIONAL SANITATION	CTURED FROM PVC COMPOUND N FOUNDATION (NSF) STANDARD	WITH A CELL CLASS OF 1245 014. PIPE SHALL BE IRON PIP	54 PER ASTM D-1784 AND PE SIZE (IPS) CONFORMING TO		—×—	MIXING VALVE / P
SLEEVES AND PENETRATIONS	ASTM D-1785 AND ASTM D-2665. IN SHALL CONFORM TO ASTM F-1866. S	NJECTION MOLDED FITTINGS SHA SOLVENT CEMENTS SHALL CONF	ALL CONFORM TO ASTM D-26 FORM TO ASTM D-2564. PRIN	65. FABRICATED FITTINGS MER SHALL CONFORM TO ASTM		₹ ₩	BACKFLOW PREV
PROVIDE STANDARD WEIGHT STEEL SLEEVES IN CONCRETE AND MASONRY CONSTRUCTION, PROVIDE 26GA GALVANIZED SHEET METAL SLEEVES IN INTERIOR DRYWALL CONSTRUCTION. SLEEVES SHALL BE THE FULL THICKNESS OF WALLS AND SHALL ALLOW FOR THE FULL THICKNESS OF PIPE INSULATION, WHERE	WASTE AND VENT PIPING SHALL BE TES	STED IN ACCORDANCE WITH THE	GOVERNING CODES. AT A M	11NIMUM, WASTE PIPING SHALL			WALL HYDRANT /
APPLICABLE.	BE TESTED WITH AT LEAST 10 FOOT O	DF WATER HEAD PRESSURE APPLI	ED.	POPATINE COOLED OF ANY	20	<u>F</u>	FLOOR DRAIN / FI
PLUMBING FIXTURES OR IN CONCRETE FLOOR SLABS ON GRADE, UNLESS OTHERWISE NOTED.	OTHER DEVICE THAT WOULD DRAW AIR MANUFACTURED FLASHINGS. FLASHING	R FROM THE VENT. FLASH AROL IG SHALL BE SHEET METAL WITH F	JND ALL PIPES PENETRATING T RUBBER GASKETS AND SHALL	HROUGH ROOF WITH STANDARD			WATER HAMMER
SLEEVES FOR ALL PIPING PENETRATING FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH 3M PIPE BARRIER NO. CP-25 FIRE PROOFING CAULKING, OR EQUAL, IN ANNULAR SPACE BETWEEN SLEEVE AND PIPING. CONTRACTOR SHALL VERIFY THE RATING OF THE WALL AND CONFIRM THE PENETRATION PROTECTION PROVIDED MEETS THAT RATING	PIPE DISTANCES IN ACCORDANCE WITH	H THE LOCAL CODE.	JTΔI				GAS COCK / GAS
PENETRATIONS THROUGH OUTSIDE WALLS SHALL BE WATERTIGHT. CAULK BETWEEN PLUMBING PIPE AND SLEEVE. PACK WITH FIBERGLASS AND CAULK, I" DEEP AT	WHERE TWO HORIZONTAL PIPES (BACK	K-TO-BACK WATER CLOSETS OR	TWO SANITARY BRANCHES) C	OMBINE IN THE VERTICAL, A		~)с	
EACH FACE WITH NON-HARDENING SEALANT BETWEEN PIPE AND SLEEVE.	DOUBLE COMBINATION WYE EIGHTH BE ACCEPTABLE.	END FITTING SHALL BE INSTALLED	D. DOUBLE SANITARY TEE OR	SANITARY CROSS IS NOT		,- 	TRAP PRIMFR
THE STUD. CUTTING OR NOTCHING OF STUDS TO A DEPTH NOT GREATER THAN 40 PERCENT OF THE WIDTH OF THE STUD IS PERMITTED IN NONBEARING PARTITIONS NOT SUPPORTING LOADS OTHER THAN THE WEIGHT OF THE PARTITION.	6 WHERE DRAWINGS REQUIRE CONNECT RESPONSIBILITY TO FIELD DETERMINE E	TION TO EXISTING SANITARY SEWI EXACT LOCATION, DEPTH AND DI	ER PIPING IN BUILDING, IT IS T RECTION OF FLOW PRIOR TO	THE CONTRACTOR'S COMMENCING WORK.)	FLOOR CLEANOUT
BORED HOLES NOT GREATER THAN 40 PERCENT OF THE STUD WIDTH ARE PERMITTED TO BE BORED IN ANY WOOD STUD. BORED HOLES NOT GREATER THAN 60 PERCENT OF THE STUD WIDTH ARE PERMITTED IN NONBEARING PARTITIONS IN ANY WALL WHERE EACH BORED STUD IS DOUBLED. PROVIDED THAT NOT MODE THAN	CONTRACTOR SHALL ALERT ARCHITECT EXISTING, OR IF THERE IS A MORE DIRI	T/ENGINEER IF THERE IS A POTEN ECT CONNECTION POSSIBLE. CO	TIAL ISSUE MAINTAINING PRO ONTRACTOR SHALL CONFIRM	THAT ANY EXISTING PIPING TO	8)	VENT THROUGH F
TWO SUCH SUCCESIVE DOUBLED STUDS ARE SO BORED. THE EDGE OF A BORED HOLE SHALL NOT BE NEARER THAN 3/8 INCH (15.9 mm) TO THE EDGE OF THE STUD	WATER. PROVIDE CAMERA SCOPING T	TO DOCUMENT THIS INFORMATIC	DN. CONTRACTOR SHALL ALE	RT ARCHITECT/ENGINEER OF ANY			

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	IMB	ICE MACHINE BOX
	IE	INVERT ELEVATION
	IWH	INSTANTANEOUS WATER HEATER
	L, LAV	LAVATORY
	MBH	I OOO BTU/HR
	MS	MOP SINK
	MV	MIXING VALVE
	O/H	OVERHEAD
	G	NATURAL GAS
	PD	PUMPED DISCHARGE
	PRV	PRESSURE REDUCING VALVE
	RP	RECIRCULATION PUMP
	S, SAN	SANITARY
	SH	SHOWER
	SK	SINK
	TP	TRAP PRIMER
	TYP	TYPICAL
	UR	URINAL
	V	VENT
	VTR	VENT THROUGH ROOF
	WC	WATER CLOSET
	W.C.	WATER COLUMN
	WCO	WALL CLEANOUT
	WHA	WATER HAMMER ARRESTER
-	WMB	WASHING MACHINE BOX

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/ GRADE CLEANOUT
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VALL CLEANOUT



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		WACTE	WACTE		WATER	RUNOUT	WATER	CONN.	
MARK	DESCRIPTION	RUNOUT	CONN.	VENT	CW	нw	CW	нw	
L- I	LAVATORY (ADA) - WALL HUNG	2"	/2"	2"	1/2"	1/2"	3/8"	3/8"	WALL HUNG LAV CARRIER MOUNT POLISHED CHRO OFFSET W/GRID CHROME PLATEE INSULATE OFFSE THERMOSTATIC LF)_ LFAD FRFF.
WC-1	WATER CLOSET - TANK TYPE	4"	3"	2"	1/2"		1/2"		FLOOR MOUNTE 215CA.104), 1. RIM AT 15" AFF. FRONT SEAT, LE CHROME PLATED M166).
WC-2	WATER CLOSET (ADA) - FLOOR MOUNT W/FLUSH VALVE	4"	3"	2"	- /4"		1 n		FLOOR MOUNTE 209AA 37.020 PROVIDE HEAVY PROVIDE EXPOSI 28). FLUSH CO
UR-1	URINAL - HIGH EFFICIENCY, WALL MOUNTED W/FLUSH VALVE	2"	2"	2"	1		3/4"		WALL MOUNTED, VITREOUS CHINA SYSTEM. COOR ARCHITECTURAL (AMERICAN STAN
SH-1	SHOWER	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	CRAWFORD SHC PROVIDE SHOWE HEAD (J.R. SMIT
SK-1	STAINLESS SINK, DROP-IN, DOUBLE- BOWL (ADA)	. 2"	/2"	2"	1/2"	1/2"	3/8"	3/8"	STAINLESS STEE FAUCET WITH 4" W, 7" D. OVERA SUPPLY STOPS, SS).
SK-2	LAB ROOM SINK	2"	/2"	2"	1/2"	1/2"	3/8"	3/8"	STAINLESS STEE FAUCET WITH 4" W, 7" D. OVERA SUPPLY STOPS,
M5-1	MOP SINK	3"	3"	2"	1/2"	1/2"	1/2"	1/2"	24"X24" FLOOR INTEGRAL STOPS AND BRACKET (8 AA) AND STAINLE
ESH-1	EMERGENCY SHOWER WITH EYE/FACE WASH (FREESTANDING)	/4"	/4"		1	1	1	1 n	FREESTANDING E 8309PCP). STA PLASTIC BOWL, OPTION TO REGI FACTORY PROVII
FD-1	FLOOR DRAIN - GENERAL PURPOSE	3"	3"	2"					GENERAL PURPO STRAINER HEAD REMOVABLE STR Z1072).
FCO	FLOOR CLEANOUT	see plan	see plan						FLOOR CLEANOL
AAV- I	AIR ADMITTANCE VALVE			see plan					STUDOR "MINI V WITH SIZE ON PL
MV-1	MIXING VALVE (POINT OF USE)				1/2"	1/2"	3/8"	3/8"	POINT-OF-USE T CHECK VALVES, STANDARD 1070
WHA-X	WATER HAMMER ARRESTOR				see plan		see plan		WATER HAMMER REFERS TO PDI S
ET-1	POTABLE WATER EXPANSION TANK				3/4"		3/4"		LEAD-FREE POTA VOLUME, 0.8 GA
FWH-1	FREEZEPROOF WALL HYDRANT IN BOX				3/4"		3/4"		CONCEALED 3/4" ANTI-SIPHON VA
WSB-1	WALL SUPPLY BOX				see plan	see plan	see plan	see plan	WALL SUPPLY BC VALVE WITH INTE BE INSTALLED IN
WMB- I	WASHING MACHINE BOX	2"	2"	2"	1/2"	1/2"	1/2"	1/2"	WASHING MACHI VALVES WITH IN TO BE INSTALLED

PILIMBING FIVELIRE SCHEDULE

WALL BOX. PRIOR TO SUBMITTAL OR PURCHASE, THE PLUMBING CONTRACTOR SHALL VERIFY FIXTURE SPECIFICATIONS WITH ARCHITECT/OWNER

ELECTRIC WATER HEATER SCHEDULE

MARK	ΤΑΝΚ CAPACITY	RECOVERY	SETPOINT	ELECTRICAL	BASI
WH-1	30 GAL	23 GPH @ 80° RISE	1 20°	4.5 KW	RHEEM ELD
WH-1	52 GAL	61 GPH @ 80° RISE	1 20°	12.0 KW	RHEEM ELD
PRIOR TC	SUBMITTAL OR PURCHASE, COORDINATE DIREC	THE PLUMBING CONTRACTOR	SHALL VERIFY THE	E APPROPRIATE ELECTRICAL C HE POWER PANEL SCHEDULES	HARACTERISTICS 6 ON THE ELECTR











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KEYNOTES

☐ 2" ∨ DN

- 2 2" VENT TO AIR ADMITTANCE VALVE AAV- I UNDER COUNTER
- 3 3" V UP TO 3" VTR
- 4" S B/G, SEE CIVIL DWG FOR CONT
- 5 CONNECT DISHWASHER HOSE TO SINK P-TRAP (OR DISPOSER, AS APPLICABLE) WITH AIR BREAK, SEE DETAIL
- 6 DISCHARGE WATER HEATER PAN DRAIN TO FLOOR DRAIN WITH AIR GAP
- CONNECT STEAM SCRUBBER HOSE TO SINK P-TRAP (OR DISPOSER, AS APPLICABLE) WITH AIR BREAK, SEE DETAIL







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KEYNOTES

- \square $I_{4}^{\prime\prime}$ CW DN TO WATER CLOSET, PROVIDE <u>WHA-A</u> AT BASE OF DROP 2 I " CW DN TO URINAL, PROVIDE WHA-A AT BASE OF DROP
- (3) ½" CW ≰½" HW DN
- 4 ¾" CW \$ ¾" HW DN \$ B/F
- 5 $|Z_4^{"} CW \notin |Z_4^{"} HW DN TO MV-1. Z_2^{"} 85^{\circ} TEMPERED WATER TO EYEWASH$ $<math>\notin |Z_4^{"} 85^{\circ} TEMPERED WATER TO SHOWER.$
- G K₂" VALVED HW TO DW CONNECTION W/WATER HAMMER ARRESTOR (SIOUX CHIEF 'MINI-RESTER,' SERIES 660, SIZE 'AA')
- 2" DOMESTIC WATER SERVICE B/G, SEE CIVIL DWG FOR CONTINUATION # BACKFLOW PREVENTER (8) I¼" CW, I¼" HW \$ ¾" HWR TO STAND MOUNTED WATER HEATER, SEE
- DETAIL \bigcirc $Z_{2}^{"}$ CW $\not\in Z_{2}^{"}$ HW DN TO MOP SINK FAUCET WITH INTEGRAL VACUUM
- BREAKER 10 V_2 " CW TO WSB-1, PROVIDE IN-LINE BACKFLOW PREVENTER (WATTS SD3,' ASSE 1022).
- \bigcirc $3_4^{"}$ HWR TO RECIRCULATION PUMP, SEE DETAIL
- 2" DOMESTIC WATER SERVICE UP WITH SHUTOFF VALVE & PRESSURE GAUGE. PROVIDE PRESSURE REDUCING VALVE IF INCOMING PRESSURE EXCEEDS 80PSI.
- (13) $\frac{3}{4}$ " VALVED CW \$ $\frac{3}{4}$ " VALVED HW TO STEAM SCRUBBER W/WATER HAMMER ARRESTOR (SIOUX CHIEF 'MINI-RESTER,' SERIES 660, SIZE 'AA')







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