CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF

ARTISAN LAKES MASTER LIFT STATION REHABILITATION

PROJECT TEAM

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PREPARED FOR

MANATEE COUNTY UTILITIES BRADENTON, FL

VOLUME 2 OF 2 DRAWINGS

UTILITY AGENCY/OWNERS

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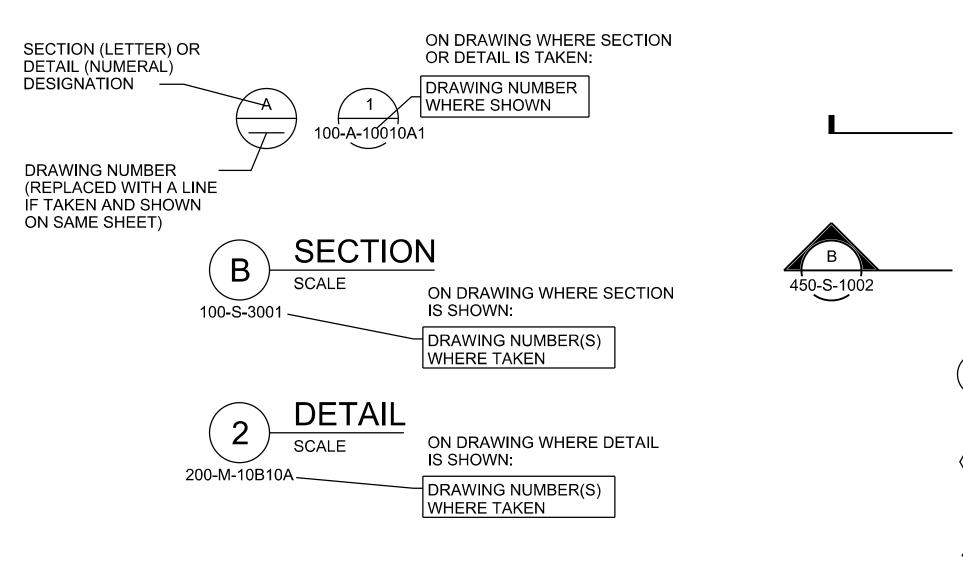
MANATEE COUNTY PROJECT No: 6110280

JACOBS PROJECT No: D3599900

MARCH 2023

SECTION / DETAIL DESIGNATIONS

PROJECT LOCATION MAP

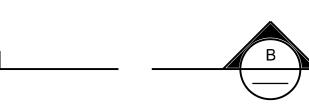


ON DRAWING WHERE ONLY A

TITLE IS REQUIRED WITH NO

REFERENCE (eg: ELEVATIONS)

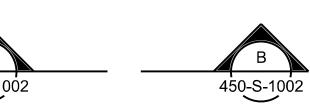
DRAWING TITLE



SECTION CALLOUT WHERE SECTION IS ON THE SAME SHEET AND CUT EXTENDS TO A FIXED LIMIT

- PROJECT SITE

9670 GILLET RD.



SECTION CALLOUT WHERE SECTION IS ON ANOTHER SHEET AND CUT **EXTENDS THROUGHOUT ENTIRE SHEET**



GRID LINE INDICATOR



KEYNOTE NUMBER



REVISION / ADDENDA NUMBER



NORTH ARROW; CAN BE MODIFIED TO INCLUDE MAGNETIC NORTH ALONG WITH PROJECT NORTH

INDEX OF DRAWINGS

GENERAL

INDEX OF DRAWINGS, GENERAL LEGEND, AND LOCATION MAP G-003 **ABBREVIATIONS** CIVIL GENERAL NOTES AND LEGENDS PROCESS MECHANICAL LEGEND ELECTRICAL LEGEND 1
ELECTRICAL LEGEND 2
ELECTRICAL LEGEND 3

CIVIL

DEMOLITION AND EROSION CONTROL C-201 C-501 SITE PLAN STANDARD DETAILS

PROCESS MECHANICAL

MASTER PUMP STATION PIPE RENOVATIONS PLAN AND SECTION MASTER PUMP STATION PHOTOGRAPHIC DETAILS MASTER PUMP STATION STANDARD DETAILS

MECHANICAL

MASTER PUMP STATION DEMOLITION PLAN MASTER PUMP STATION RENOVATIONS PLAN AND SECTION

ELECTRICAL

MASTER PUMP STATION DEMO AND NEW PLANS AND SCHEDULES MATER PUMP STATION EQUIPMENT LAYOUT AND RISER DIAGRAM

DESIGN DETAIL DESIGNATION

DESIGN DETAIL — DESIGNATION **•**(1234**-**567) (NUMERAL) SHOWN ON DESIGN DETAIL DRAWING(S)

NOTES:

- 1. ALL DESIGN DETAILS ARE TYPICAL AND MUST BE USED IF DESIGN DETAIL DESIGNATION IS NOT SHOWN
- 2. THE TERM STANDARD DETAIL, OR A FORM OF IT, IS SYNOMONOUS WITH DESIGN DETAIL. THE DESIGN DETAILS REPRESENT THE CHARACTER AND NATURE OF THE WORK REQUIRED THROUGHOUT THE PROJECT. ALL ASSOCIATED WORK SHALL BE IN ACCORDANCE WITH THE DESIGN DETAILS SHOWN WHETHER THE DETAILS ARE SPECIFICALLY REFERENCED OR NOT.

ENERAL LEGE DRAWINGS Jacobs OCATION MAP, AND INDEX 1" = X' VERIFY SCALE BAR IS ONE INCH ON

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FILENAME: 00-G-002_D3599900.dgn

2 of 18 PLOT DATE: 2023\03\09 PLOT TIME: 2:22:59 PM

ORIGINAL DRAWING.

MARCH 2023 PROJ D3599900 G-002

	1		2		3		4		5		6	DJACOBS 2022. A	ALL RIGHTS RESER
													THOMAS
Α	AMMETER, AMPERES	CRS	PVC COATED RIGID STEEL	FSHS	FOLDING SHOWER SEAT	LHR	LEFT HAND REVERSE	PP	POWER POLE	STIF	STIFFENER		JOS
AB	ANCHOR BOLT	CS	CUP SINK	FT	FOOT OR FEET	LLH	LONG LEG HORIZONTAL	PPL	POLYPROPYLENE LINED	STIRR	STIRRUP		No 67713
ABDN	ABANDON	CSATC	CERAMIC SUSPENDED ACOUSTICAL	FTG	FOOTING	LLV	LONG LEG VERTICAL	PRCST	PRECAST	STL	STEEL	X •••••	No 67/13 ★
AC	ALTERNATING CURRENT	OT.	TILE CEILING CERAMIC TILE	FU FV/ND	FIXTURE UNIT	LNTL	LINTEL LONGITUDINAL	PREFAB	PREFABRICATION	ST STRL	STRAIGHT		STATE OF
ACI	ASPHALTIC CEMENT AMERICAN CONCRETE INSTITUTE	CT CT	CURRENT TRANSFORMER	FVNR FVR	FULL VOLTAGE NON-REVERSING FULL VOLTAGE REVERSING	LONG LOS	LOCK-OUT STOP PUSHBUTTON	PRES PRI	PRESSURE PRIMARY	STRUCT	STRUCTURAL STRUCTURE		[°] 、^ ² ORIDP、°°
ACST	ACOUSTICAL	CTR	CENTER	FWD	FORWARD	LP	LIGHT POLE	PRM	PERMANENT REFERENCED MARKER	SUSP	SUSPENDED		ONAL EN
ACU	AIR CONDITIONING CONDENSING UNIT	CTR'D	CENTERED			L.P.	LOW POINT	PROJ	PROJECTION	SV	SOLENOID VALVE		WAL VIN
ADD	AREA DRAIN ADDITIONAL	CTSK	COUNTERSUNK	C CND	CDOLIND	LR	LATCHING RELAY	PROP	PROPERTY	SYMM	SYMMETRICAL		
ADD AFD	ADDITIONAL ADJUSTABLE FREQUENCY DRIVE	CU CU FT	CUBIC CUBIC FOOT	G, GND GA	GROUND GAUGE	LK I R	LOCAL-REMOTE LONG RADIUS	PS PSF	POLYCARBONATE SHEET POUNDS PER SQUARE FOOT	Т	THERMOSTAT		
AFF	ABOVE FINISHED FLOOR	CU IN	CUBIC INCH	GAL	GALLON	LS	LABORATORY SINK	PSI	POUNDS PER SQUARE INCH	Т&В	TOP AND BOTTOM		
AG	ACOUSTICAL GLASS	CU YD	CUBIC YARD	GALV	GALVANIZED	LTG	LIGHTS OR LIGHTING	PSIG	POUNDS PER SQUARE INCH, GAUGE	T&G	TONGUE AND GROOVE		1
AGGR	AGGREGATE ANCHOR	CUH CV	COPPER TUBING, HARD DRAWN CHECK VALVE	GB GC	GRAB BAR GROOVED COUPLING	LWL LYRS	LOW WATER LEVEL LAYERS	PT PT	POINT OF TANGENCY	T/ TAN	TOP OF TANGENT		
AHR AISC	AMERICAN INSTITUTE OF	CWR	CABINET DOOR MOUNTED	GFI	GROUND FAULT INTERRUPTER	LIKS	LAYERS	PT PT	POTENTIAL TRANSFORMER PRESSURE TREATED	TAN	TERMINAL BOARD		/
71100	STEEL CONSTRUCTION	OVVIC	WASTE RECEPTACLE	GFR	GOUND FAULT RELAY	M&BH	MOP AND BROOM HOLDER	PTAC	PACKAGED TERMINAL AIR CONDITIONING	ТВ	TOWEL BAR		
AL (ALUM)	ALUMINUM			GL	GLASS	MA	MANUAL-AUTO	PTD	PAPER TOWEL DISPENSER	TBG	TUBING		(+ + + +)
ALKY	ALKALINITY	D	DRAIN PENNY NAIL SIZE	GPD GPH	GALLONS PER DAY	MAS	MASONRY	PV	PLUG VALVE	TC	TIME TO CLOSE/ TENSION CONTROLLED		(+ + + +)
ALTN, (ALT) AM	ALTERNATE AUTO-MANUAL	DAS	DATA ACQUISTION SYSTEM	GPH GPM	GALLONS PER HOUR GALLONS PER MINUTE	MATL MAX	MATERIAL MAXIMUM	PVC, P.V.C. PVI	POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION	TCAE	TIME CLOSE AFTER ENERGIZATION		(+ + + +)
ANDZ	ANODIZE	DBA	DEFORMED BAR ANCHOR	GRTG	GRATING	MB	MACHINE BOLT	PVI PVMT	PAVEMENT	TCL2	TOTAL CHLORINE RESIDUAL		$(\ \)$
APPROX	APPROXIMATE	DBL	DOUBLE	GR	GRADE	MC	MASONARY CLEARANCE	PVT	POINT OF VERTICAL TANGENCY	TDH	TOTAL DYNAMIC HEAD		$(\ \)$
APVD	APPROVED	DC	DIRECT CURRENT	GSP	GALVANIZED STEEL PIPE	MC	MODULATE-CLOSE	QT	QUARRY TILE	TDR	TIME DELAY RELAY		(+ + + +)
ARCH AR	ARCHITECTURAL ANALOG RELAY	DEG DET	DEGREE DETAIL	GV GVL	GATE VALVE GRAVEL	MCC MECH	MOTOR CONTROL CENTER MECHANICAL	R (RAD)	RADIUS	TECH TEL	TECHNICAL TELEPHONE		$(\ \)$
ARV	AIR RELEASE VALVE	DF	DOUGLAS FIR	GWB	GYPSUM WALL BOARD	MET	METAL	RC	REINFORCED CONCRETE	TEMP	TEMPORARY		$(\ \)$
ASU	AIR SUPPLY UNIT	DF	DRINKING FOUNTAIN	GYP	GYPSUM	MFD	MANUFACTURED	RCP, R.C.P. RCPT	REINFORCED CONCRETE PIPE RECEPTACLE	TF	TOP FACE		(
ATS	AUTOMATIC TRANSFER SWITCH	DHEC	DEPT OF HEALTH AND		Hopvor veville	MFR	MANUFACTURER	RD	ROAD	TFG	TEMPERED FLOAT GLASS		
AUTO AUX	AUTOMATIC	DDI	ENVIRONMENTAL CONTROL DROP INLET	H HAS	HORN OR HOWLER	MGD MH	MILLION GALLONS PER DAY	RD	ROOF DRAIN	THD THK	THREAD		/ <u> </u>
AUX AVG	AUXILIARY AVERAGE	DI	DUCTILE IRON	HAS HB	HEADED ANCHOR STUD HOSE BIB	MH MIN	MANHOLE MINIMUM	RDCR	REDUCER	THK THRU	THICKNESS THROUGH		
AVRV	AIR VACUUM RELEASE VALVE	DIA, O	DIAMETER	HC	HOLLOW CORE	MIR	MIRROR	KUW R F	REDWOOD RIM ELEVATION	TJB	TERMINAL JUNCTION BOX		i+1
@	AT	DIAG DIP. D.I.P.	DIAGONAL	HD	HUB DRAIN	MISC	MISCELLANEOUS	R.E. REF	REFER OR REFERENCE	TL	TEFLON LINE PIPE		i+1
B	BELL BRONZE TINE	DIP, D.I.P. DIR	DUCTILE IRON PIPE DIRECTION	H.D.P.E.	HIGH DENSITY POLY PIPE	MJ	MECHANICAL JOINT	REF	REFRIGERATOR	TO	TIME TO OPEN		i+1
(B) BAL	BRONZE TINT BALANCE	DISCH	DISCHARGE	HDR HDW	HEADER HARDWARE	MLO MMP	MAIN LUGS ONLY MECHANICAL MOUNTING PANEL	REFR	REFRIGERATE, REFRIGERANT	TOAD TOAE	TIME OPEN AFTER ENERGIZATION		i+1
B.C.R.	BROWARD COUNTY RECORDS	DOL	DIRECT-ON-LINE	HESR	HYPALON ELASTIC SHEET ROOFING	M.O.	MASONRY OPENING	REINF REQD	REINFORCED, REINFORCING, REINFORCE	T.O.P.	TOP OF PIPE		i+1
BD	BUTTERFLY DAMPER	DS	DOWNSPOUT	HGL	HYDRAULIC GRADE LINE	MP	METAL PANEL	KEQU RG	REQUIRED REFLECTIVE	TP	TURNING POINT		I + I + I
BF	BLIND FLANGE	DWG DWN	DRAWING DOWN	HGT	HEIGHT	MPU	MULTIPURPOSE UNIT	RH	RIGHT HAND	TRANS	TRANSFORMER		I + I + I
BFV BH	BUTTERFLY VALVE BUD HEIGHT		DELTA	HH HID	HANDHOLE HIGH INTENSITY DISCHARGE	MTD MTS	MOUNTED MANUAL TRANSFER SWITCH	RH	RODHOLE	TRANSV TDR	TRANSVERSE TREAD		I + I + I
вп BL	BUD HEIGHT BASELINE	_		HK	HIGH INTENSITY DISCHARGE HOOK	MTS MTS	MANUAL TRANSFER SWITCH MILL TYPE STEEL PIPE	RHR	RIGHT HAND REVERSE	TS	TUBE STEEL		I + I + I
BFP	BACKFLOW PREVENTER	E	EAST	HM	HOLLOW METAL	MV	MERCURY VAPOR	KL RI	RAIN LEADER RAISE LOWER	TTD	TOILET TISSURE DISPENSER		
BLDG	BUILDING	E	EMPTY	HOA	HAND-OFF-AUTO	MWS	MAXIMUM WATER SURFACE	RLS	RUBBER LINED STEEL	TU-X	TREATMENT UNIT NO. X		/
BLK	BLOCK	EA	EACH EMERGENCY FYEWARD	HOR	HAND-OFF-REMOTE		NORTH	RM	ROOM	TURB	TURBIDITY		
BM BM	BEAM BENCHMARK	EE FF	EMERGENCY EYEWASH EACH FACE	HORIZ HP	HORIZONTAL HORSEPOWER	N N/A	NORTH NOT APPLICABLE	ROL	RAISE-OFF-LOWER	TYP	TYPICAL		 '
B.O.S.	BOTTOM OF STRUCTURE	EF	EXHAUST FAN	 Н.Р.	HIGH POINT	N/C	NORMALLY CLOSED	RPM	REVOLUTIONS PER MINUTE	U ON	UNLESS OTHERWISE NOTED		
BOT, (BOTT), B/	ВОТТОМ	EFF	EFFLUENT	HPS	HIGH PRESSURE SODIUM	N/O	NORMALLY OPEN	RST	RIGID STEEL REINFORCING STEEL	UBC	UNIFORM BUILDING CODE		
BRG	BEARING	EL, ELEV	ELEVATION	HR	HOSE RACK	N, NEUT	NEUTRAL	RTN	RETURN	UH	UNIT HEATER		
BSP BV	BLACK STEEL PIPE BALL VALVE	ELB E!FS	ELBOW EXTERIOR !NSULATION FINISH SYSTEM	HRDN HSS	HARDENER HOLLOW STRUCTURAL SECTION	NA ND	NON-AUTOMATIC NAPKIN DISPOSAL	RRUB	RADIAL RUBBER	UR UVR	URINAL UNDER VOLTAGE RELAY		
BVC	BEGINNING OF VERTICAL CIRCUIT	ELC	ELECTRICAL LOAD CENTER	HV	HOSE VALVE	NGS STA	NATIONAL GEODETIC SURVEY STATION	R/W RW	RIGHT OF WAY RAW WATER	OVIX	SIDER VOLINGE RELAT		
		ELEC	ELECTRIC, ELECTRICAL	HVAC	HEATING, VENTILATING AND	NIC	NOT IN CONTRACT	IZ V V	NAVV VVATEK	V	VALVE	13	
C	CONDUIT	ENGR FOG	ENGINEER EDGE OF GUTTER	1.047	AIR CONDITIONING	NO, #	NUMBER	S	I-BEAM	V	VENT	377	Z
°C C-C	DEGREE CELSIUS CENTER TO CENTER	EOG EOP	EDGE OF GUTTER EDGE OF PAVEMENT	HW HWL	HEADWALL HIGH WATER LEVEL	NP NPT	NON-PROTECTED NATIONAL PIPE THREADS	S	SLOPE	V	VOLT VOLTMETER, VOLTS) 2001 7E 6	e _z ≿
C-C CAB	CENTER TO CENTER CABINET	E.O.W.	EDGE OF WATER	ı 1VV∟	HIGH WATER LEVEL	NE I NS	NATIONAL PIPE THREADS NON-SHRINK	S	SOUTH	v VB	VOLTMETER, VOLTS VAPOR BARRIER	326 326	\[\bullet \[\bullet \]
CAR	CARPET	EP	EDGE OF PAVING	IC	INTERRUPTING CAPACITY	NTS	NOT TO SCALE	S SATC	SWITCH SUSPENDED ACOUSTICAL TILE CEILING	VC	VERTICAL CURVE	NO NO	T S T X T A T A T A T A T A T A T A T A T A
CATV	CABLE TELEVISION	EP EQ	EXPLOSION PROOF EQUAL	ID	INSIDE DIAMETER			SC	SLIP CRITICAL	VCP	VITRIFIED CLAY PIPE		
CB, C.B.	CATCH BASIN CIRCUIT BREAKER	EQ SP	EQUALLY SPACED	IE, I.E.	INVERT ELEVATION INSIDE FACE	O TO O OA	OUT TO OUT OVERALL	SCBA	SELF CONTAINED BREATHING APPARATUS	VDR VERT	VERTICLE DRYING RACK VERTICAL	VE,	HAE ATE
CC	CONTROL CABLE	EQPT, (EQUIP)	EQUIPMENT	IG	INSULATING GLASS	OC	ON CENTER	SCC	SOLID CORE	VERT	VIBRATION	HAY EB2	AN AN
CCP	CENTRAL CONTROL PANEL	ETM	ELAPSED TIME METER	IN	INCH	OC	OPEN-CLOSE	SCFM SCH	STANDARD CUBIC FEED PER MINUTE SCHEDULE	VP	VENEER PLASTER	141 A	§
CCS	CENTRAL CONTROL SYSTEM	EVC	END OF VERTICAL CURVE	INCAND	INCANDESCENT	OCA	OPEN-CLOSE-AUTO			VPC	POINT OF VERTICAL CURVATURE		-
CFM	CUBIC FEET PER MINUTE	EW EXH	EACH WAY EXHAUST	INJS	INJECTIONS INSTANTANEOUS	OCR	OPEN-CLOSE-REMOTE	SCR SCU	SHOWER CURTAIN ROD SPEED CONTROL UNIT	VPI	POINT OF VERTICAL INTERSECTION	38 NE SE	
CHAN, C CHDPE	CHANNEL (BEAM) CORRUGATED HIGH DENSITY	EXP	EXPANSION	INST INSTM	INSTANTANEOUS INSTRUMENT, INSTRUMENTATION	OD OF	OUTSIDE DIAMETER OUTSIDE FACE	SD	SOAP DISPENSER	VPS VPT	VENEER PLASTER SYSTEM POINT OF VERTICAL TANGENT	GA GA	
	POLYETHYLENE PIPE	EXP	EXPOSED	INSUL	INSULATION	OHW	OVERHEAD WIRE	SDMH, S.D.M.H		VT	VINYL TILE		
CHEM CI	CHEMICAL CAST IRON	EXP AB	EXPANSION ANCHOR BOLT	INVT	INVERT	OL	OVERLOAD RELAY	SDWK	SIDEWALK	VTR	VENT THRU ROOF	\	
CIP	CAST IRON CAST IRON PIPE	EXP JT EX, EXST, (EXIST)	EXPANSION JOINT) EXISTING	IRRIG ITG	IRRIGATION	00	ON-OFF	SEC SECT	SECONDARY SECTION	147	MATER		
CIPS	CAST IRON SOIL PIPE	EXT	EXTERIOR	IIG IU	INSULATED TEMPERED GLASS INTAKE UNIT	OOA OOR	ON-OFF-AUTO ON-OFF-REMOTE	SED	SEDIMENTATION	VV \//	WATER WEST		
CJ	CONSTRUCTION JOINT/CONTROL JOINT	-		IW	IRRIGATION WELL	OP OP	OPAQUE PANEL	SEW	SEWAGE	W	WEST WIDE FLANGE (BEAM)		
CKT ©, CL	CIRCUIT CENTERLINE	^F	DEGREE FAHRENHEIT	_		OPER	OPERATOR	SF	SLOWER-FASTER	W/	WITH ,		
CLDI	CEMENT LINED DUCTILE IRON PIPE	F, FU	FUSE FRESH AIR INLET	J, JB JAN	JUNCTION BOX JANITOR	OPNG O.B.B.	OPENING	SF SG	SQUARE FEET LAMINATED SAFETY GLASS	WC	WATER CLOSET		
C.L.F.	CHAIN LINK FENCE	FAI FC	FRESH AIR INLE I FLEXIBLE CONDUIT	JAN JCT	JANITOR JUNCTION	O.R.B. OSC	OFFICIAL RECORD BOOKS OPEN-STOP-CLOSE	SGWB	SUSPENDED GYPSUM WALL BOARD	WD WG	WOOD WIRE GLASS		
CLG	CEILING	FCA	FLANGED COUPLING ADAPTER	JT	JOINT	OSD	OPEN SITE DRAIN	SH	SHOWER	WH	WATER HEATER		_
CLO CLR	CLOSET CLEAR	FCL2	FREE CHLORINE RESIDUAL			OZ	OUNCE	SH (SHT)	SHEET	WH	WATTHOUR METER		\overline{S}
	CHLORINE	FCO	FLOOR CLEANOUT	KIP	KEY INTERLOCK	5	DILACTED DIDE	SHA SHS	SURFACE HARDENING AGENT SOLIDS HANDLING SYSTEM	WHD	WATTHOUR DEMAND METER	S	
CL2	CORRUGATED METAL PIPE	FCTY FD	FACTORY FLOOR DRAIN	KIP KIT	THOUSAND POUNDS KITCHEN	P PAV	PILASTER, PIPE PAVER TILE	SIM	SIMILAR	WP WP	WATERPROOF WEATHERPROOF		_ <u> </u>
CMP, C.M.P.		FDN	FOUNDATION	KSK	KITCHEN SINK	P.B.	PLAT BOOK	SMH	STORMWATER MANHOLE	WR	WASTE RECEPTACLE		\rangle \ran
CMP, C.M.P. CMU	CONCRETE MASONRY UNIT		FEEDER	KV	KILOVOLTS	РВ	PUSHBUTTON SWITCH	SOLN	SOLUTION	WS	WATER SURFACE		崩 🖊
CMP, C.M.P. CMU CO	CONCRETE MASONRY UNIT CLEANOUT	FDR		KVA	KILOVOLT AMPERES REACTIVE	PC	PHOTOCELL	SP SPA.	SPACE OR SPACES SPACING	WS	WATERSTOP		
CMP, C.M.P. CMU	CONCRETE MASONRY UNIT		FIRE EXTINGUISHER	10/45	KILOVOLT AMPERES REACTIVE	PC PE	POINT OF CURVE PLAIN END	SPA. SPEC, SPECS	SPECIFICATIONS	WS WTP	WELDED STEEL WATER TREATMENT PLANT	Ŭ ([©] 7
CMP, C.M.P. CMU CO COL CONC CONDTN	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED	FDR FEXT FF	FINISHED FLOOR	KVAR KW	KII Ο\ΜΔΤΤ	ГБ	PEDESTAL	SPEC'D.	SPECIFIED	WTR	WATER TREATMENT PLANT WATER		B
CMP, C.M.P. CMU CO COL CONC CONDTN CONN	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION	FDR		KVAR KW	KILOWATT	PED	PEDESTAL			VV I I'S	VVATER		
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT	FDR FEXT FF FG	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE		ANGLE, LENGTH	PED PEP	POLYETHYLENE PIPE	SPLY	SUPPLY	WU	WALL URN		ا ش
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST CONT	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT CONTINUOUS, CONTINUATION	FDR FEXT FF FG FHY FIG FL	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE		ANGLE, LENGTH ARC LENGTH	PEP PF	POLYETHYLENE PIPE PANEL FRONT	SQ	SUPPLY SQUARE			1.2	AB
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT	FDR FEXT FF FG FHY FIG FL FLG	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE FLANGE	KW L L LA	ANGLE, LENGTH ARC LENGTH LIGHTNING ARRESTER	· 	POLYETHYLENE PIPE PANEL FRONT PAGE	SQ SQ FT	SUPPLY SQUARE SQUARE FOOT, FEET	WU	WALL URN		AB
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST CONT CONTR COORD CO	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT CONTINUOUS, CONTINUATION CONTRACTOR COORDINATE CENTER PIVOT	FDR FEXT FF FG FHY FIG FL	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE		ANGLE, LENGTH ARC LENGTH	PEP PF	POLYETHYLENE PIPE PANEL FRONT PAGE HYDROGEN ION CONCENTRATION	SQ SQ FT SQ IN SR	SUPPLY SQUARE SQUARE FOOT, FEET SQUARE INCH SHORT RADIUS	WU	WALL URN		AB
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST CONT CONTR COORD CP CP-X	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT CONTINUOUS, CONTINUATION CONTRACTOR COORDINATE CENTER PIVOT CONTROL PANEL NO. X	FDR FEXT FF FG FHY FIG FL FLG FL (FLR) FLEX FLH	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE FLANGE FLOOR FLEXIBLE FLAT HEAD	KW L L LA LAB LAM LAT	ANGLE, LENGTH ARC LENGTH LIGHTNING ARRESTER LABORATORY LAMINATE LATITUDE	PEP PF	POLYETHYLENE PIPE PANEL FRONT PAGE	SQ SQ FT SQ IN SR SS	SUPPLY SQUARE SQUARE FOOT, FEET SQUARE INCH SHORT RADIUS START-STOP	WU WWTP	WALL URN		AB
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST CONT CONTR COORD CP CP-X CPLG	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT CONTINUOUS, CONTINUATION CONTRACTOR COORDINATE CENTER PIVOT CONTROL PANEL NO. X COUPLING	FDR FEXT FF FG FHY FIG FL FLG FL(FLR) FLEX FLH FLTR	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE FLANGE FLOOR FLEXIBLE FLAT HEAD FILTER	KW L L LA LAB LAM	ANGLE, LENGTH ARC LENGTH LIGHTNING ARRESTER LABORATORY LAMINATE LATITUDE LAVATORY	PEP PF PG. pH PI	POLYETHYLENE PIPE PANEL FRONT PAGE HYDROGEN ION CONCENTRATION POINT OF INTERSECTION PREMOULDED JOINT FILLER PLATE (STEEL)	SQ SQ FT SQ IN SR SS SS, SST	SUPPLY SQUARE SQUARE FOOT, FEET SQUARE INCH SHORT RADIUS START-STOP STAINLESS STEEL	WU WWTP <u>NOTES:</u>	WALL URN		AB
CMP, C.M.P. CMU CO COL CONC CONDTN CONN CONST CONT CONTR COORD CP CP-X	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT CONTINUOUS, CONTINUATION CONTRACTOR COORDINATE CENTER PIVOT CONTROL PANEL NO. X	FDR FEXT FF FG FHY FIG FL FLG FL (FLR) FLEX FLH FLTR FLUOR	FINISHED FLOOR FINISH GRADE FIRE HYDRANT FIGURE FLOW LINE FLANGE FLOOR FLEXIBLE FLAT HEAD FILTER FLUORESCENT	KW L L LA LAB LAM LAT LAV LB	ANGLE, LENGTH ARC LENGTH LIGHTNING ARRESTER LABORATORY LAMINATE LATITUDE LAVATORY LICENSED BUSINESS	PEP PF PG. pH PI PJF PL PL	POLYETHYLENE PIPE PANEL FRONT PAGE HYDROGEN ION CONCENTRATION POINT OF INTERSECTION PREMOULDED JOINT FILLER PLATE (STEEL) PROPERTY LINE or PARCEL LINE	SQ SQ FT SQ IN SR SS SS, SST SSH	SUPPLY SQUARE SQUARE FOOT, FEET SQUARE INCH SHORT RADIUS START-STOP STAINLESS STEEL SAFETY SHOWER	WU WWTP NOTES: 1. THIS IS A S' SOME ABBI	WALL URN WASTEWATER TREATMENT PLANT TANDARD LEGEND SHEET, THEREFORE REVIATIONS MAY APPEAR ON THIS		AB
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CMP, C.M.P. CMU CO COL CONC CONDTN CONST CONT CONTR COORD CP CP-X CPLG CPRSR CPT CPVC CR	CONCRETE MASONRY UNIT CLEANOUT COLUMN CONCRETE CONDITIONED CONNECTION CONSTRUCT CONTINUOUS, CONTINUATION CONTRACTOR COORDINATE CENTER PIVOT CONTROL PANEL NO. X COUPLING COMPRESSOR CONTROL POWER TRANFORMER CHLORINATED PVC CONTROL RELAY	FDR FEXT FF FG FHY FIG FL FLG FL (FLR) FLEX FLH FLTR FLUOR FNSH FP FPS FP-W-X FR	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	KW L L LA LAB LAM LAT LAV LB LB LB/CU FT LC LF LG	ANGLE, LENGTH ARC LENGTH LIGHTNING ARRESTER LABORATORY LAMINATE LATITUDE LAVATORY LICENSED BUSINESS POUND POUNDS PER CUBIC FOOT LIGHTING CONTACTOR LINEAR FEET LONG	PEP PF PG. pH PI PJF PL PLAS PLC PLC-X	POLYETHYLENE PIPE PANEL FRONT PAGE HYDROGEN ION CONCENTRATION POINT OF INTERSECTION PREMOULDED JOINT FILLER PLATE (STEEL) PROPERTY LINE or PARCEL LINE PLASTIC PROGRAMMABLE LOGIC CONTROLLER PROGRAMMABLE LOGIC CONTROLLER NO. X PLYWOOD	SQ SQ FT SQ IN SR SS SS, SST SSH SSK S.S.M.H. STA STD	SUPPLY SQUARE SQUARE FOOT, FEET SQUARE INCH SHORT RADIUS START-STOP STAINLESS STEEL SAFETY SHOWER SERVICE SINK SANITARY SEWER MANHOLE STATUS STANDARD	WU WWTP NOTES: 1. THIS IS A S' SOME ABBI SHEET AND 2. CONTACT E	WALL URN WASTEWATER TREATMENT PLANT TANDARD LEGEND SHEET, THEREFORE REVIATIONS MAY APPEAR ON THIS NOT ON THE DRAWINGS.	DATE PROJ	ERIFY SCALE R IS ONE INCH ON GINAL DRAWING. 1" MARCH 2
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GENERAL SITE NOTES:

- 1. SOURCE OF TOPOGRAPHY SHOWN ON THE CIVIL PLANS IS AN AS-BUILT PROVIDED BY MANATEE COUNTY, DATED JULY 2008, ADDITIONAL MAPPING HAS BEEN ADDED FROM COUNTY DATA. EXISTING CONDITIONS MAY VARY FROM THOSE SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ADJUST WORK PLAN ACCORDINGLY PRIOR TO BEGINNING CONSTRUCTION.
- EXISTING TOPOGRAPHY, STRUCTURES, AND SITE FEATURES ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW FINISH GRADE, STRUCTURES, AND SITE FEATURES ARE SHOWN HEAVY-LINED.
- 3. HORIZONTAL DATUM: ASSUMED FLORIDA STATE PLANE COORDINATE SYSTEM (WEST ZONE NAD 1983 / 1990 ADJUSTMENT).
- 4. VERTICAL DATUM: ELEVATIONS SHOWN HEREON ARE BASED ON N.A.V.D. 1988 DATUM.
- MAINTAIN, RELOCATE, OR REPLACE EXISTING SURVEY MONUMENTS, CONTROL POINTS, AND STAKES WHICH ARE DISTURBED OR DESTROYED. PERFORM THE WORK TO PRODUCE THE SAME LEVEL OF ACCURACY AS THE ORIGINAL MONUMENT(S) IN A TIMELY MANNER, AND AT THE CONTRACTOR'S EXPENSE.
- COORDINATES AND DIMENSIONS SHOWN FOR ROADWAY IMPROVEMENTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT.
- 7. IF NECESSARY, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A STAGING AREA FOR EMPLOYEE PARKING. CONTRACTOR'S TRAILERS AND ON-SITE STORAGE OF MATERIALS.
- 8. PROVIDE TEMPORARY FENCING AS NECESSARY TO MAINTAIN SECURITY AT ALL TIMES.
- 9. ELEVATIONS GIVEN ARE TO FINISH GRADE UNLESS OTHERWISE SHOWN.
- 10. SLOPE UNIFORMLY BETWEEN CONTOURS AND SPOT ELEVATIONS SHOWN.
- 11. UNLESS SHOWN OTHERWISE, ALL DISTURBED AREAS NOT RECEIVING A HARD SURFACE SHALL BE COVERED WITH GRASS.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION CONTROL DEVICES DURING CONSTRUCTION. EROSION CONTROL DEVICES SHOWN ARE THE MINIMUM REQUIRED.
- 13. CONTRACTOR SHALL TAKE ALL OTHER MEASURES TO POSITIVELY PRECLUDE EROSION MATERIALS FROM LEAVING THE SITE.
- 14. CONTRACTOR SHALL OBTAIN THE CAD FILE FROM THE ENGINEER FOR CONSTRUCTION LAYOUT.
- 15. THE COUNTY PROJECT MANAGER IS CRAIG HUGHES, 941-708-7450 EXT. 7326.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING MAINTENANCE OF TRAFFIC DEVICES DURING CONSTRUCTION, AS NEEDED. CONTRACTOR SHALL SUBMIT A FULL MAINTENACE OF TRAFFIC PLAN FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO BEGINNING THE MOT WORK. THE MOT PLAN SHALL CLEARLY SHOW THE AREAS TO BE CLOSED, APPROXIMATE DURATIONS, AND DETOURS NEEDED.
- 17. CONTRACTOR SHALL SURVEY ALL CURBS AND GUTTERS TO BE REPLACED AND MATCH ELEVATIONS WHEN RECONSTRUCTED.
- 18. VERIFY THE EXISTING ASPHALT THICKNESS PRIOR TO CONSTRUCTION. REMOVE EXISTING PAVEMENT AS NOTED AND REPAIR WITH THE SAME ASPHALT THICKNESS AS EXISTING.

GENERAL YARD PIPING AND UTILITIES NOTES:

- 1. EXISTING UNDERGROUND UTILITIES OBTAINED FROM COUNTY GIS, AND FROM AS-BUILT DATA. CONTRACTOR SHALL FIELD VERIFY DEPTH AND LOCATION PRIOR TO EXCAVATION. PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION.
- 2. EXISTING PIPING AND EQUIPMENT ARE SHOWN SCREENED AND/OR LIGHT-LINED. NEW PIPING AND EQUIPMENT ARE SHOWN HEAVY-LINED.
- 3. UNLESS OTHERWISE SHOWN ALL PIPING SHALL HAVE A MINIMUM OF 36" COVER.
- 4. ALL PIPES SHALL HAVE CONSTANT SLOPE BETWEEN INVERT ELEVATIONS UNLESS A FITTING IS SHOWN.
- 5. FOR TRENCHING AND BACKFILL, SEE MANATEE COUNTY STANDARD DETAILS UG-11 AND UG-12,
- 6. FOR SURFACE RESTORATION OF ASPHALT CONCRETE, SEE MANATEE COUNTY STANDARD DETAIL UG-12, AND FOR GRASS, SEE SPECIFICATION 32 92 00.
- 7. MINIMUM ALLOWABLE CLEARANCE BETWEEN PIPES AT CROSSINGS SHALL BE AS SHOWN ON THE DRAWINGS AND THE MANATEE COUNTY PUBLIC WORKS STANDARDS, PART 1, UTILITY STANDARDS MANUAL.
- 8. ALL EXISTING VALVES, HYDRANTS, ETC. SHALL BE ACCESSIBLE DURING AND AFTER THE PROJECT. EXISTING VALVES, HYDRANTS, METER BOXES, SHALL BE ADJUSTED TO NEW FINISHED GRADE IF CHANGED. ANY EXISTING SERVICES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED.

CIVIL LEGEND

SPOT ELEVATION ⊗ 158.5 CONTOUR LINE

MANHOLE

POST OR GUARD POST

DRAINAGEWAY OR DITCH

BRUSH/TREE LINE

TREE PROPERTY / R/W LINE

CENTER LINE, BUILDING, ROAD, ETC.

— - STAGING OR WORK AREA LIMITS

———— EXISTING WATER LINE — SD — SD — **EXISTING STORM SEWER**

- SS ---- EXISTING SEWER LINE

EXISTING OVERHEAD ELECTRIC

N 1000.00 E 1000.00

STRUCTURE, BUILDING OR FACILITY LOCATION POINT - COORDINATES

>>>>>> OR

DEMOLITION

STRUCTURE, BUILDING OR FACILITY

SINGLE SWING GATE DOUBLE SWING GATE

CHAIN LINK FENCE

GRAVEL SURFACING



ASPHALT PAVEMENT

CONCRETE



HAND CONE PENETRATION TEST



STANDARD PENETRATION TEST

₩H-1

VERIFIED VERTICAL AND HORIZONTAL UTILITY LOCATION

AS-BUILT LEGEND

 \square = 4"x 4"x 3' CONCRETE MONUMENT SET "LB#043" = FOUND CONCRETE MONUMENT (AS NOTED) = FOUND IRON ROD (AS NOTED) = FOUND IRON PIPE (AS NOTED) = FOUND CAPPED IRON ROD (AS NOTED) = 5/8"x 18" IRON ROD SET "LB#043" = FOUND CHISEL SQUARE = P.K.NAIL = TRAVERSE POINT = BENCH MARK = GUY ANCHOR & WIRE = STORM INLET = SANITARY MANHOLE = STORM MANHOLE = VALVE BOX = ELECTRIC RISER = TELEPHONE RISER = GAS RISER = WATER RISER = UTILITY POLE & LIGHT = UTILITY POLE = FIRE HYDRANT = TELEVISION CABLE RISER = WATER METER = SEWER STUB = CLEAN OUT = TELEPHONE MANHOLE = FP&L MANHOLE = LIGHT POST = ELECTRICAL TRANSFORMER PAD = WELL = AERIAL TARGET = IRRIGATION CONTROL BOX

= IRRIGATION SPRINKLER — - - — - - — = PROPERTY LINE = EDGE OF PAVEMENT = EDGE OF WALK ---- - - - = CENTERLINE OF SWALE

× = CHAIN LINK FENCE → = WOOD FENCE = OVERHEAD UTILITY LINES - - - - - - - - TOP OF BANK LINE

AIR RELEASE VALVE, COMPLETE IN-LINE VALVE W/ BOX

FIRE HYDRANT, COMPLETE PIPE PLUG

____ WATER METER _ IRRIGATION METER REDUCER — BACKFLOW PREVENTER/ABOVE GROUND METER SANITARY SEWER MANHOLE

SANITARY SEWER LATERAL & CLEAN-OUT _____ PUMP STATION _____ STORM SEWER & STRUCTURE

_____U-ENDWALL CONTROL STRUCTURE

MITERED END/FLARED END SECTION = WILLOW = BRAZILIAN PEPPER

= PUNK = PALM = MAPLE

= CITRUS = OAK = BANYON = CHINABERRY

= MYRTLE = UNKNOWN SPECIES = ELM = CEDAR = AUSTRALIAN PINE

= FIG TREE = ROSEWOOD \bigcirc 10" = LOQUAT OTO" = ORNAMENTAL

NOTE: size of trunk diameter is determined at 4.5' above ground surface and is shown adjoining the symbol in inches.

EROSION CONTROL LEGEND

YARD PIPING LEGEND

THIS CONTRACT

COVER PRACTICES SYMBOL

SILT FENCE

EXISTING

COIR LOG BARRIER (BIOFILTER)

NOMINAL PIPE DIAMETER

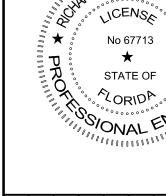
PIPING SINGLE LINE

PIPING DOUBLE LINE

EXISTING PIPE TO BE ABANDONED

EXISTING PIPE TO BE REMOVED

PIPE MATERIAL



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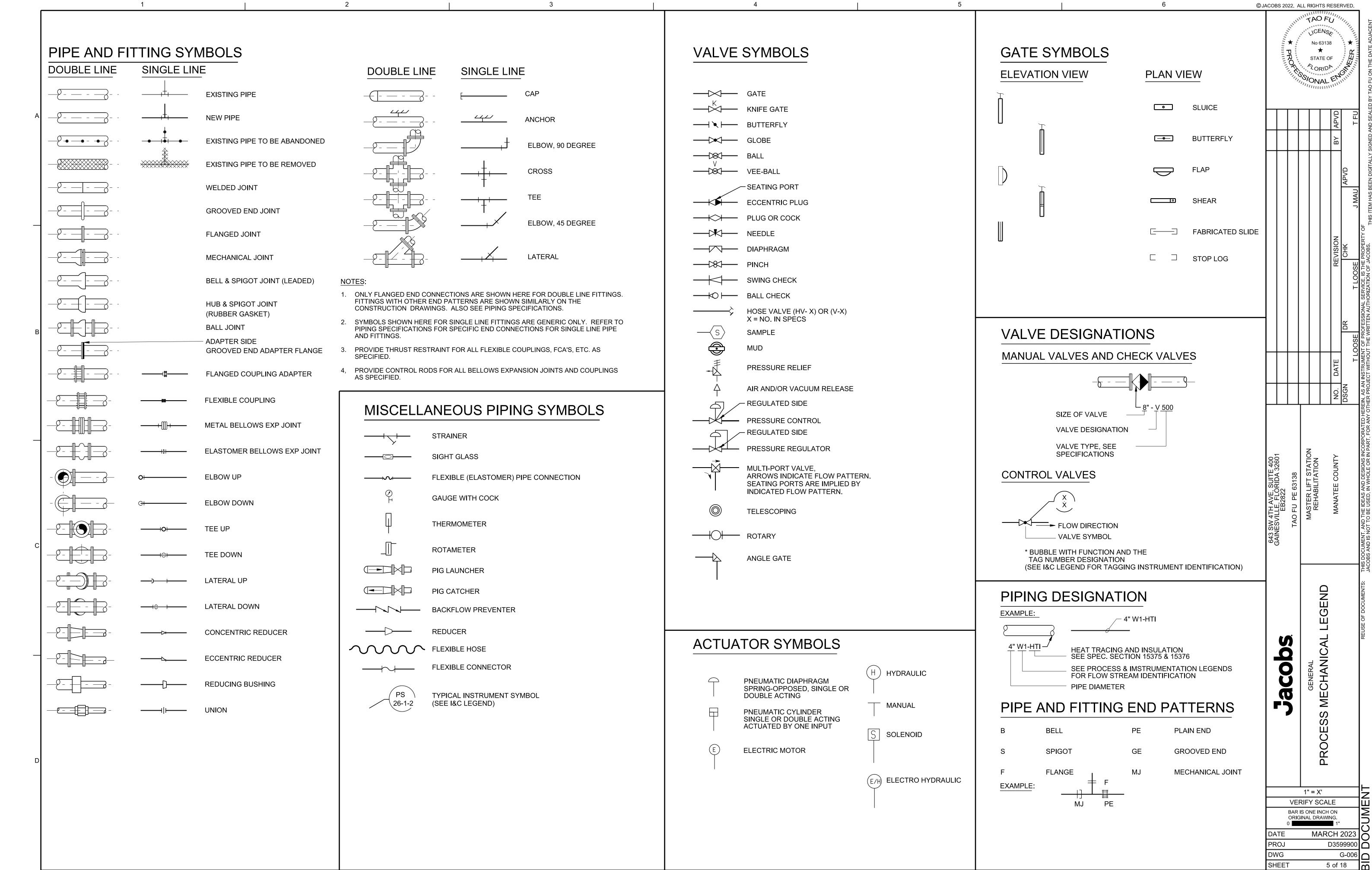
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BAR IS ONE INCH ON ORIGINAL DRAWING. **MARCH 2023 PROJ** D3599900 G-004 4 of 18



FILENAME: 00-G-006_D3599900.dgn

PLOT DATE: 3/9/2023

PLOT TIME: 10:35:03 AM

MBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	. 0	C. NICK	HC.
	ONE-LINE DIAGRAM-1		ONE-LINE DIAGRAM-2		CONTROL DIAGRAM-1		CONTROL DIAGRAM-2		, CENS	Se ^{°°}
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE	*	DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE		PUSH-BUTTON SWITCH, MOMENTARY CONTACT,	——(—	CAPACITOR	* PRO	No 6020 ★ STATE O	
400	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN,		NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE	<u> </u>	NORMALLY OPEN PUSH-BUTTON SWITCH, MOMENTARY CONTACT,	+ -	BATTERY		ONAL	^0
AS or AT AF	3 POLE, UNO CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP	← ~□⊢ ≫	DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM	<u> </u>	NORMALLY CLOSED PUSH BUTTON SWITCH, MAINTAINED CONTACTS WITH		LIMIT SWITCH, NORMALLY OPEN, CLOSES AT END		7777111111111	
AF or AF	TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO	(← \(+) »	VOLTAGE DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR,		MECHANICAL INTERLOCK	0—10	OF TRAVEL LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END			
100/M	CIRCUIT BREAKER, MAGNETIC TRIP ONLY, TRIP RATING SHOWN, 3 POLE, UNO	(())	MEDIUM VOLTAGE DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE		3 POSITION SELECTOR SWITCH MAINTAINED CONTACT	050	OF TRAVEL TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE			†
00 400	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES,	•	MEDIUM VOLTAGE CABLE STRESS CONE TYPE			~ }	TEMPERATURE SWITCH, CLOSES ON TEMPERATURE RISE			
400	TRIP AND FUSE RATING INDICATED, 3 POLE, UNO		TERMINATION, OPEN TERMINATOR OR ELBOW	HAND OFF REMOTE	SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY:	م <u>ل</u> ه ح	FLOAT SWITCH, NORMALLY OPEN, CLOSES ON			
100 225	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO		SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE	-* <u>O T O </u>	POSITION CKT HAND OFF REMOTE X - CLOSED CONTACT	Ó	DESCENDING LEVEL			
100	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO		DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE	o_*	1 X O O 2 O O X O - OPEN CONTACT	9	FLOAT SWITCH, NORMALLY OPEN, CLOSES ON RISING LEVEL			
60 (3)	FUSE, CURRENT RATING AND QUANTITY INDICATED		TERMINAL BLOCK LUG		TOGGLE SWITCH, ON-OFF TYPE	0_0	PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON			
¹ → X →	MAGNETIC STARTER WITH OVERLOAD,		DELTA CONNECTION	ON OFF		~	RISING PRESSURE PRESSURE SWITCH, NORMALLY OPEN, CLOSES ON			
	NEMA SIZE INDICATED, FVNR UNO	Δ ½	WYE GROUNDED CONNECTION, SOLID GROUND	****	SELECTOR SWITCH, ON-OFF TYPE	o√o	RISING PRESSURE FLOW SWITCH, CLOSES ON INCREASED FLOW			
AFD	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER AFD = AC ADJUSTABLE FREQUENCY DRIVE	\ \tag{\frac{1}{\tau}}	WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE	0 0 ×		0_0	FLOW SWITCH, OPENS ON INCREASED FLOW			
	DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE	R or Z	CONNECTION	oTo	MUSHROOM HEAD PUSHBUTTON SWITCH	NGR	NEUTRAL GROUND CURRENT LIMITING RESISTOR			
	RVRT = REDUCED VOLTAGE REACTOR TYPE	<u>±</u> (86)	RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED	0 (A) 0	INDICATING LIGHT, PUSH-TO-TEST, LETTER	RES	CALIBRATING RESISTOR			
—	CABLE OR BUS CONNECTION POINT		TEL TO STOL TO STOLE NO WOULD AS INDICATED	~,O,	INDICATES COLOR	T	TACHOMETER GENERATOR			-
К	KEY INTERLOCK	50:5	CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED	A	INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN S - STROBE	←		H	+++	_
• •——	SURGE ARRESTER (GAP TYPE)	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □			B - BLUE R - RED C - CLEAR W - WHITE	GFS	GROUND FAULT SENSOR			_
— (10	CAPACITOR - KVAR INDICATED, 3 PHASE	800/1200:5	BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED	ETM	ELAPSED TIME METER	· · · · · · · · · · · · · · · · · · ·	FLASHER			
(3)/	AC MOTOR, SQUIRREL CAGE INDUCTION -	MO	MOTOR OPERATOR, BREAKER OR SWITCH	O M O	MOTOR STARTER CONTACTOR COIL		SEALED CONTACT	_	Z	
	HORSEPOWER INDICATED	EUM	ENERGY MONITORING UNIT	OCRXO	CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT		BUZZER	E 400 32601 E 6020	TATIO TION	
G 500/625	GENERATOR, KW/KVA RATING SHOWN	MRP	MOTOR PROTECTION RELAY	O(DR)O	TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT	- \\\\-	POTENTIOMETER	SON P	CLIFT S	
/S V	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN			SV X	SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT	V V V V		TH AVE LE, FL EB282 CHOLS	MASTER	
0-600V	V = VOLTAGE KW = KILOWATTS			──	CONTACT - NORMALLY OPEN	- \\\\-	RESISTOR	SW 4TH NESVILLE EE D C. NICH	∑	
	A = AMPERAGE KVAR = KILOVARS PF = POWER FACTOR				CONTACT - NORMALLY CLOSED		BLOWN FUSE INDICATOR	643 GAII DAVII	1	
DPM	DICITAL DOMED METER (MULTIFUNCTION)			-0	REMOTE DEVICE		BLOWN POSE INDICATOR			_
	DIGITAL POWER METER (MULTIFUNCTION)			~~	TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSES WHEN ENERGIZED AND TIMED OUT		COAXIAL CABLE			
<u> </u>	UTILITY REVENUE METER			o To	TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT	-	MULTICONDUCTOR SHIELDED CARLE			
Ť	GROUND			~~	TIME DELAY RELAY CONTACT, CLOSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT	Ī	MULTICONDUCTOR SHIELDED CABLE			
15 KVA 480-120/2	240V			→	TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSES WHEN DE-ENERGIZED AND	$\begin{bmatrix} \Phi \\ \Phi \end{bmatrix}$	DUPLEX RECEPTACLE	98	 	ر (
1 PH	TRANSFORMER, SIZE, VOLTAGE RATINGS, AND PHASE INDICATED			₩	TIMED OUT	<u> </u>		Ö	 ERAL AL L	
<u> </u>	SHIELDED ISOLATION TRANSFORMER			- Ollo	MOTOR SPACE HEATER		RELAY, WITH MECHANICAL LATCH	9	GEN GEN) = -
480-120V	DOTENTIAL TRANSCORMER VOLTEGE SETTICE				TERMINAL BLOCK INTERNAL			Ja)]
→{ (3)	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED			0	TERMINAL BLOCK, INTERNAL		FULLWAVE DIODE BRIDGE (AC TO DC)		=====================================	ا ا
0:5	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)				FUSED TERMINAL BLOCK					
(3)		NOTES: 1. THESE ARE STANDA	RD LEGEND SHEETS. SOME SYMBOLS AND ABBREVIATIONS		FUSE, RATING INDICATED					
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS. RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION	MAY APPEAR ON THE 2. FOR ADDITIONAL AB	E LEGEND AND NOT ON THE DRAWINGS. BREVIATIONS OF OTHER DIVISIONS (HVAC, MECHANICAL, AND TECTURAL) SEE OTHER LEGENDS.	CPT 120V	TRANSFORMER, CONTROL POWER				1" = X' ERIFY SCAI	٩L
SPD	SURGE PROTECTIVE DEVICE				THERMOCOUPLE				R IS ONE INCH IGINAL DRAWI	VIN
		1						DATE	MAR	'C

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	© JACOBS 2022. AL	C. NICHOLOGIA
	POWER SYSTEM PLAN-1		POWER SYSTEM PLAN-2	FIRE	ALARM SYSTEM PLAN AND RISER	ONE	LINE PROTECTION RELAYING AND	**************************************	No 60201
	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION	100/40	BREAKER, SEPARATELY MOUNTED, CURRENT RATING INDICATED	F _P	FIRE ALARM STATION, MANUAL	52	ELEMENTARY DIAGRAMS-1	PRO	★ Y
MCC-A	IN THIS DIVISION.		(100/40, 100 = FRAME SIZE; 40 = TRIP RATING) 3 POLE	©	FIRE ALARM SYSTEM, AUTOMATIC SMOKE DETECTOR	51 or — 52	DEVICE FUNCTION NUMBER INDICATED, SEE DEVICE TABLE		ONONAL EN
	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN.	[C] ²	CONTACTOR, MAGNETIC, NEMA SIZE INDICATED	HD	FIRE ALARM SYSTEM, AUTOMATIC, HEAT DETECTOR	CS	CONTROL SWITCH TRIP		
LPXXA	PANELBOARD - SURFACE MOUNTED	L 30	LIGHTING CONTACTOR, CURRENT RATING INDICATED	FO	FIRE ALARM BELL	(CS) C	CONTROL SWITCH CLOSE		APVD SON
	PANELBOARD LETTER OR NUMBER	2	STARTER, MAGNETIC NEMA SIZE INDICATED	F⋈	FIRE ALARM HORN	43/CS	43-DEVICE FUNCTION NUMBER, SEE DEVICE TABLE		BY L
	FACILITY NUMBER LP - LOW VOLTAGE PANEL DP - DISTRIBUTION PANEL	XX = 2	CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE		FIRE ALARM HORN/STROBE LIGHT	□vs	VOLTMETER SWITCH		
			WP- WEATHERPROOF C- CLOCK HANGER TL- TWIST LOCK CRE- CORROSION RESISTANT	×	FIRE ALARM STROBE LIGHT	AS	AMMETER SWITCH		APV[
	PANELBOARD - FLUSH MOUNTED TERMINAL JUNCTION BOX		GFCI- GROUND FAULT CIRCUIT INTERRUPTER SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT	==@	AIR DUCT DETECTOR	A	INDICATING LAMP-SWITCHBOARD TYPE INDICATING LAMP LENS COLORS		
M	MOTOR, SQUIRREL CAGE INDUCTION	⊜	240V RECEPTACLE	FS	FIRE SPRINKLER FLOW SWITCH		INDICATING LAMP LENS COLORS INDICATED AS FOLLOWS: A - AMBER R - RED		
/ IVI	MOTON, SQUINNEL CAGE INDUCTION	—	CONVENIENCE RECEPTACLE - QUADRUPLEX	TS	FIRE SPRINKLER TAMPER SWITCH		A - AMBER R - RED B - BLUE W - WHITE G - GREEN		NOISI HX
G	GENERATOR, VOLTAGE AND SIZE AS INDICATED.	φ φ φ_	MULTI OUTLET ASSEMBLY	D	DOOR HOLDER	V	VOLTMETER		REV CONTRACT
→ LPXXA	HOME RUN - DESTINATION SHOWN		DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR	TELE	EPHONE SYSTEM PLAN AND RISER	A	AMMETER		
or	EXPOSED CONDUIT AND CONDUCTORS*	₽	CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE	TTC	TELEPHONE TERMINAL CABINET	w	WATTMETER		
or -/#/- G	CONCEALED CONDUIT AND CONDUCTORS*	L20R 20 🙆	RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION		TELEPHONE RECEPTACLE FLOOR BOX	F	FREQUENCY METER		
CONDUCTORS IN 3/	NDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND 4" CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE	\Box	AND AMPERAGE INDICATED THERMOSTAT	 	TELEPHONE RECEPTACLE	PF	POWER FACTOR METER		I SIML
NUMBER OF NO. 12 GREEN GROUND W	CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES IRE.		UTILITY REVENUE METERING FACILITY	Т——т	TELEPHONE SYSTEM RACEWAY	WH	WATT-HOUR METER		DATE
	CROSSHATCHES WITH BAR INDICATE NO.10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS			COMBIN	IED TELEPHONE/COMPUTER SYSTEM PLAN AND RISER	ETM	ELAPSED TIME METER		NO. DSGN
	AND APPLICABLE CODE. CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.	← EUH	ELECTRIC UNIT HEATER	◄ 4	COMBINATION TELEPHONE/DATA RECEPTACLE, WALL MOUNTED, NUMBER OF PORTS INDICATED	RPM	TACHOMETER		<u>, , , , , , , , , , , , , , , , , , , </u>
[A1] —			ELECTRIC AIR CONDITIONER	4	COMBINATION TELEPHONE/DATA RECEPTACLE, FLOOR BOX, NUMBER OF PORTS INDICATED	WXD	WATTS TRANSDUCER		
————	CONDUIT DOWN	AC AC	(SELF CONTAINED UNIT) UTILITY POLE			PF	POWER FACTOR TRANSDUCER	.00 .601 0201	NO NO YEL
	CONDUIT UP		LIGHTING SYSTEM PLAN		CURITY SYSTEM PLAN AND RISER	TD	TIME DELAY	SUITE 4 SIDA 32	FT STATICN LITATION E COUNTY
	CONDUIT, STUBBED AND CAPPED	① or ①	LUMINAIRE, SEE SCHEDULE	CR	CARD KEY ACCESS	$\left\langle \begin{array}{c} 4 \\ \cdot \end{array} \right\rangle$	RELAY COIL, DEVICE FUNCTION NUMBER PER ANSI 37.2 - AMERICAN STANDARD MANUAL AND	AVE, S S. FLOF 32822 HOLSOP	TER LI EHABII
	CONDUIT TERMINATION AT CABLE TRAY		LUMINAIRE, SEE SCHEDULE	DS Z	CONTROL STATION		AUTOMATIC STATION CONTROL, SUPERVISORY AND ASSOCIATED TELEMETRY EQUIPMENT	SVIL SVIL	MASS R MA
———EX———	EXISTING CONDUIT/ DUCT BANK	(1)// or (2)	LUMINAIRE WITH INTERNAL BATTERY BACKUP, SEE SCHEDULE		DOOR SWITCH	7 8	NORMALLY OPEN CONTACT	643 S GAINE DAVID (
——BD——	BUS DUCT - SEE SPECIFICATIONS		STRIP LUMINAIRE, SEE SCHEDULE		EGRESS PUSHBUTTON	3 1 4	NORMALLY CLOSED CONTACT		
——CE——	CONCRETE ENCASED CONDUIT	□-4 or ○-4	LUMINAIRE AND POLE, SEE SCHEDULE		ELECTRONIC LOCK M = MAGENITIC S = STRIKE	_ -			
———DB———	DIRECT BURIED CONDUIT		WALL MOUNTED LUMINAIRE, SEE SCHEDULE		INTERCOM	NOD	NEUTRAL GROUNDING RESISTOR		
——FO——	FIBER OPTIC CONDUIT	1) -	FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN		MONITOR	NGR PST	PHASE SHIFTING TRANSFORMER		2
XXXX	CONCRETE ENCASED DUCT BANK WHERE XXXX IS THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION		STANDBY LIGHTING UNIT, SURFACE MOUNTED, SEE SCHEDULE	>>	MOTION SENSOR	[131]	FHASE SHIFTING TRANSFURIVER		EGE
××××××××××××××××××××××××××××××××××××××	CONCEALED CONDUIT ROUTING AREA	xx♥ or ♥	EXIT LIGHTS - FILLED SECTION INDICATES LIGHTED FACE, ARROW INDICATES EGRESS DIRECTIONAL INDICATORS,		VIDEO CAMERA PTZ = PAN/TILT/ZOOM				eral AL L
	CONDUIT ROUTING AREA	t	XX = FIXTURE NUMBER, SEE SCHEDULE		F = FIXED			a	GENE RICA
	CABLE TRAY	\$ _a or 2a	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT		GROUND SYSTEM PLAN			🖰	ECT
T	TRANSFORMER	\$ ₃	WALL SWITCH:	•	GROUND ROD				
(J) or HH	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS		2- DOUBLE POLE P- PILOT LIGHT 3- THREE WAY K- KEY OPERATED 4- FOUR WAY D- DIMMER WP- WEATHERPROOF CRE- CORROSION RESISTANT		GROUND ROD IN TEST WELL				
cs	INDICATE TYPE OF DEVICE CONTROL STATION, SEE CONTROL DIAGRAMS		EX- EXPLOSIONPROOF L- MOMENTARY 3-WAY M- MOTOR RATED MS- MANUAL STARTER	— —G— —					
30 🔐	FOR CONTROL DEVICE(S) REQUIRED. NONFUSED DISCONNECT SWITCH, CURRENT RATING	os	WITH OVERLOADS OCCUPANCY SENSOR	$\overline{}$	PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME				1" = X'
50 <u> </u>	INDICATED, 3 POLE FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED	LC	LIGHTING CONTACTOR	G	EQUIPMENT GROUND BUS			BAR IS	S ONE INCH ON INAL DRAWING. 1"
00/40 KT	(60/40, 60=SWITCH RATING / 40=FUSE RATING) 3 POLE	MD	MOTION DETECTOR	N ———	EQUIPMENT NEUTRAL BUS			DATE	MARCH 2023 D3599900
2 🔟	COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED	©	PHOTOCELL					DWG	D3599900 G-008

GENERAL NOTES

- 1. CONDUIT, WIRE AND EQUIPMENT SIZES AND LOCATIONS SHOWN ARE FOR BID BASIS ONLY AND SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL WORK WITH APPROVED SHOP DRAWINGS, WITH THE REQUIREMENTS OF EQUIPMENT PROVIDED FOR INSTALLATION BY CONTRACTOR AND WITH REQUIREMENTS OF OTHER DIVISIONS OF THE CONTRACT AS NECESSARY TO PROVIDE COMPLETE AND WORKING SYSTEMS COMPLYING WITH THE CONTRACT DOCUMENTS. ALL PROPOSED DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE SUBMITTED AND APPROVED BY ENGINEER BEFORE EXECUTION OF THE AFFECTED WORK.
- 2. THE TERMS RACEWAY AND CONDUIT ARE USED IN THESE DOCUMENTS TO DENOTE NOT ONLY THE RACEWAY OR CONDUIT ITSELF BUT ALSO ALL JUNCTION BOXES, PULL BOXES, CONDULETS, FITTINGS, CLAMPS, SUPPORTS AND ALL OTHER ITEMS NECESSARY FOR A COMPLETE AND WORKING SYSTEM COMPLYING WITH THE CONTRACT DOCUMENTS.
- 3. NOTES INDICATED AS "REF", "REFERENCE" OR "REFER TO" ARE PROVIDED TO ASSIST IN LOCATING RELATED CONTRACTUAL REQUIREMENTS BUT ARE NOT CONTRACTUAL INSTRUCTIONS THEMSELVES. MISSING, INCORRECT OR INCOMPLETE REFERENCES SHALL HAVE NO EFFECT ON THE REQUIREMENTS OF THE CONTRACT.
- 4. ITEMS MARKED MSC (MANUFACTURER SUPPLIED OR SPECIFIED CABLE): CONTRACTOR SHALL DETERMINE REQUIREMENTS FOR, AND PROVIDE, CONDUIT AND CABLE AS REQUIRED BY MANUFACTURER AND IN COMPLIANCE WITH CONTRACT DOCUMENTS.
- 5. EXCEPT AS NOTED BELOW, ALL WIRE AND CABLE, INCLUDING GROUNDED CONDUCTORS ABOVE GRADE AND FIBER OPTIC CABLE. SHALL BE INSTALLED IN RACEWAY AND ENCLOSURES. EXCEPTIONS ARE EQUIPMENT CABLES PROVIDED BY EQUIPMENT MANUFACTURERS AND UL LISTED FOR INSTALLATION OUTSIDE OF CONDUIT, INCLUDING FLOAT SWITCH AND SUBMERSIBLE PUMP CABLES.
- 6. SPARE RUNS OF CONDUCTORS SHALL BE INSULATED OR TERMINATED AND LABELED AT BOTH ENDS. SPARE RUNS OF FIBER OPTIC STRANDS SHALL BE LABELED AND TERMINATED AT BOTH ENDS. ALL CONDUCTORS AND FIBERS SHALL BE TESTED AFTER INSTALLATION AND TEST REPORTS SHALL BE SUBMITTED. REPLACE ALL DEFECTIVE MATERIAL; DO NOT SUBMIT TEST REPORTS SHOWING DEFECTS.
- 7. CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS.
- 8. ALL CONDUITS SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED PER TABLE 250.122 OF THE NEC, UNLESS OTHERWISE NOTED.
- 9. ALL EXISTING INFORMATION SHOWN MUST BE FIELD VERIFIED. ACCURACY OF EXISTING WIRING IS NOT GUARANTEED.
- 10. REFER TO THE COUNTY'S PUBLIC WORKS STANDARD FOR LIGHTNING PROTECTION.
- 11. REFER TO NFPA 70E FOR ARC FLASH REQIREMENTS
- 12. CONDUCTIVE ENCLOSURES AND OTHER EXTERIOR METAL COMPONENTS OF INSTRUMENTS AND CONTROLS WHICH ARE NOT NORMALLY ENERGIZED SHALL BE CONNECTED TO FACILITY GROUNDING ELECTRODE SYSTEM (GROUND RING) WITH #6 MINIMUM TINNED SOLID COPPER CONDUCTOR
- 13. PROVIDE #10 WIRE INSTEAD OF #12 WIRE FOR ALL 20 AMPERE 120 VOLT OR 208 VOLT CIRCUITS EXCEEDING 150 FEET CONDUIT LENGTH.
- 14. WHERE THE NUMBER OR SIZE OF CONDUCTORS SHOWN TO BE CONNECTED ARE IN EXCESS OF THE CAPACITY OF THE STANDARD TERMINALS OF THE CONNECTED EQUIPMENT, PROVIDE ADDITIONAL TERMINALS, ENCLOSURES, JUNCTION BOXES, PULL SECTIONS, WIRES, CONDUITS AND ALL OTHER MATERIALS AND LABOR AS NECESSARY TO MAKE THE CONNECTIONS SHOWN IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- 15. ALL MATERIALS AND EQUIPMENT PROPOSED FOR USE SHALL BE NEW, UN-USE, UNLESS NOTED OTHERWISE, AND BE FULLY RATED AS SPECIFIED AND SCHEDULED IN THE CONTRACT DOCUMENTS AT THE PROJECT ALTITUDE AND MAXIMUM AMBIENT TEMPERATURE.
- 16. PROVIDE ARC FLASH WARNING AND OTHER SIGNS ON ALL SWITCHGEAR PANELBOARDS, MOTOR CONTROL CENTERS, MOTOR CONTROLLERS, CONTROL PANELS, AND OTHER EQUIPMENT PROVIDED OR MODIFIED UNDER THIS CONTRACT AND REQUIRED TO BE LABLED BY NEC INCLUDING BUT NOT LIMTED TO PARAGRAPH 110.16 FLASH PROTECTION.
- 17. COORDINATE SIZE AND INSTALLATION OF ALL EQUIPMENT WITH EXISTING CONDITIONS AND WORK IN OTHER DIVISIONS OF CONTRACT TO ENSURE COMPLIANCE WITH THE NEC, INCLUDING BUT NOT LIMITED TO PARAGRAPH 110.26 SPACES ABOUT ELECTRICAL EQUIPMENT.
- 18. STANDARD DETAILS INCLUDED IN THESE DOCUMENTS SHALL BE USED WHERE APPLICABLE WHETHER SPECIFICALLY CALLED OUT ON THE PLANS OR NOT. PRACTICES CUSTOMARY TO THE TRADE MAY BE USED ONLY WHERE NO APPLICABLE STANDARD DETAIL CAN BE FOUND IN THESE DOCUMENTS AND WHERE THE CUSTOMARY PRACTICE WILL RESULT IN A COMPLETE AND WORKING SYSTEM IN COMPLIANCE WITH THESE DOCUMENTS.

- 19. ALL TERMINATIONS OF SCHEDULE 80 PVC IN WALLS OF ENCLOSURES WITHOUT CAST-IN-PLACE THREADED CONDUIT CONNECTIONS, AND WHICH ARE LOCATED OUTDOORS OR IN WET OR DAMP LOCATIONS, SHALL BE MADE USING MYERS HUBS.
- 20. REFER TO DOCUMENTS OF OTHER DIVISIONS OF CONTRACT, INCLUDING BUT NOT LIMITED TO PROCESS MECHANICAL, AND INSTRUMENTATION AND CONTROL FOR LOCATIONS OF PROCESS, INSTRUMENTATION, CONTROL, AND OTHER EQUIPMENT REQUIRING ELECTRICAL, FIBER OPTIC OR RACEWAY-ONLY CONNECTIONS TO BE PROVIDED UNDER THIS DIVISION OF CONTRACT. ALL EQUIPMENT LOCATIONS SHOWN ON DRAWINGS IN THIS DIVISION ARE APPROXIMATE ONLY UNLESS DIMENSIONED.
- 21. COORDINATE EARTH WORK AND INSTALLATION OF ELECTRICAL ITEMS WITH INTERFERENCE'S SHOWN ON DOCUMENTS OF ALL DIVISIONS OF CONTRACT, INCLUDING CIVIL AND YARD PIPING. REPORT ALL DAMAGE AT ONCE TO OWNER AND ENGINEER AND REPAIR AS DIRECTED AT CONTRACTOR'S SOLE EXPENSE.
- 22. DO NOT INSTALL ANY CONDUITS, DUCT BANKS, PULL BOXES, MANHOLES, HANDHOLES, LIGHT POLES, CONTROL PANELS, ETC., IN AREAS DESIGNATED FOR FUTURE STRUCTURES.
- 23. PROVIDE REINFORCED CONCRETE ENCASEMENT OF ALL DIRECT BURIED CONDUITS AND DUCT BANK UNDER ROADWAYS AND 10 FEET BEYOND ON EACH SIDE OF THE ROADWAY.
- 24. COUNTY HAS FIRST RIGHT OF REFUSAL FOR ALL DEMO OR SALVAGE MATERIAL.

HAZARDOUS LOCATION NOTES:

- PER NFPA 820 (2016), TABLE 4.2.2, ROW 16a, THE AREA OF THE WASTE WATER LIFT STATION IS CLASSIFIED AS A HAZARDOUS LOCATION AS FOLLOWS:
 - a) THE AREA INSIDE THE WET WELL IS CONSIDERED CLASS 1, DIV I LOCATION.
 - b) THE AREA WITHIN A 3FT ENVELOPE AROUND THE VENT IS CONSIDERED CLASS 1, DIV I LOCATION.
 - c) THE AREA WITHIN A 5 FT ENVELOPE AROUND THE VENT IS CONSIDERED CLASS 1, DIV 2 LOCATION.
 - d) THE AREA WITHIN AN ENVELOPE 18 INCHES ABOVE AND 3FT BEYOND EACH HATCH IS CONSIDERED A CLASS 1, DIV 2 LOCATION.
- e) THE AREA BEYOND THE ENVELOPE IS UNCLASSIFIED.
- f) COMBUSTIBLE GAS DETECTION IS NOT REQUIRED BECAUSE THE WET WELL IS NOT MECHANICALLY VENTILATED BASED ON CHANGE PER NFPA 820 (2016).
- THE AREA OF THE ODOR-CONTROL SYSTEM IS CLASSIFIED AS A HAZARDOUS LOCATION AS FOLLOWS:
 - a) THE AREAS WITHIN 3FT OF LEAKAGE SOURCES IS CONSIDERED CLASS 1, DIV 2 LOCATION.
 - b) THE AREA BEYOND THE ENVELOPE IS UNCLASSIFIED
- PROVIDE SUITABLE WIRING METHODS AND MATERIALS FOR HAZARDOUS LOCATIONS PER NFPA 70 (NEC).

GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

	POWER CIRC	CUIT CALL	DUTS	PO	WER CABLE CIRCUIT CALLOUTS
[P1]	[1/2"FLEX, 2#12,#12G]	[P34]	[1"C,3#4,1#8G]	[PC1]	[3/4"C,1 (3C#12,1#12G) TYPE 2]
P2]	[3/4"C,2#12,1#12G]	[P34A]	[1 1/4"C, 4#4, 1#8G]	[PC2]	[3/4"C,1 (3C#10,1#12G) TYPE 2]
P3]	[3/4"C,3#12,1#12G]	[P35]	[1 1/4"C,3#4,3#14,1#8G]	[PC3]	[1"C,1 (3C#8,1#10G) TYPE 2]
P4]	[3/4"C,4#12,1#12G]	[P36]	[1 1/4"C,3#4,5#14,1#8G]	[PC4]	[1 1/4"C,2 (3C#12,1#12G) TYPE 2]
P4A]	[3/4"C, 4#12, 4#14, 1#12G]	[P37]	[1 1/4"C,3#3, 1#8G]	[PC5]	[1 1/2"C,2 (3C#10,1#12G) TYPE 2]
_	[3/4"C,5#12,1#12G]		[1 1/4"C,2#3,1#8G]	-	[3/4"C,1 (2C#12,1#12G) TYPE 2]
P5]		[37A]		[PC1A]	
P6]	[3/4"C,6#12,1#12G]	[P38]	[1 1/4"C,3#3,3#14,1#8G]	[PC2A]	[3/4"C,1 (3C#10,1#12G) TYPE 2]
P7]	[3/4"C,7#12,1#12G]	[P39]	[1 1/4"C,3#2,1#6G]		
P8]	[3/4"C,8#12,1#12G]	[P39A]	[1 1/2"C, 4#2, 1#6G]		
P9]	[3/4"C,9#12,1#12G]	[P40]	[1 1/4"C,3#1,1#6G]		
P10]	[3/4"C,10#12,1#12G]	[P40A]	[1 1/2"C,4#1,1#6G]		
P11]	[3/4"C,2#12,4#14,1#12G]	[P41]	[1 1/2"C,3#1,5#14,1#6G]	[EMPTY CONDUIT CALLOUT
P12]	[3/4"C,3#12,5#14,1#12G]	[P42]	[2"C, 3#1/0,1#6G]	[CE_1]	[3/4"C,WITH PULL STRING]
P13]	[3/4"C,3#12,6#14,1#12G]	[P42A]	[1 1/2"C, 2#1/0, 1#6G]	[CE-1]	-
P14]	[3/4"C,3#12,7#14,1#12G]	[P43]	[2"C, 4#1/0,1#6G]	[CE-2]	[1"C,WITH PULL STRING]
P15]	[3/4"C,2#10,1#10G]	[P44]	[1 1/2"C,3#2/0,1#6G]	[CE-3]	[1 1/4"C,WITH PULL STRING]
P16]	[3/4"C,3#10,1#10G]	[P44A]	[2"C,4#2/0,1#4G]	[CE-4]	[1 1/2"C,WITH PULL STRING]
P17]	[3/4"C,3#10,2#14,1#10G]	[P45]	[2"C,3#3/0,1#4NEU]	[CE-5]	[2"C,WITH PULL STRING]
P18]	[1"C,3#10,6#12,1#10G]	[P45A]	[2"C, 4#3/0, 1#4G]	[CE-6]	[3"C,WITH PULL STRING]
_	- · · · · · · · · · · · · · · · · · · ·	_	•	[CE-7]	[4"C,WITH PULL STRING]
P19]	[3/4"C,3#10,4#14,1#10G]	[P46]	[3"C,3#4/0,1#4G]	[CE-8]	[5"C,WITH PULL STRING]
P20]	[1"C,8#10,1#10G]	[P46A]	[3"C, 3#4/0, 1#3G]	[CE-9]	[6"C, WITH PULL STRING]
P21]	[1"C,2#8,1#10G]	[P47]	[3"C, 3#250KCM,1#4G]	[52.5]	[5 2,
P22]	[1"C,3#8,1#10G]	[P48]	[3"C, 4#250KCM,1#2G]		
P23]	[1"C,3#8,2#14,1#10G]	[P49]	[3"C, 3#350KCM,1#1/0G]		
P24]	[1"C,3#8,3#14,1#10G]	[P49A]	[3"C,4#350KCM,1#4G]		
P25]	[1"C,3#8,4#14,1#10G]	[P50]	[4"C, 3#600KCM,350KCM NEU]		
P26]	[1"C,3#8,5#14,1#10G]	[P50A]	[4"C, 4#600KCM, 1#1/0G]		
P27]	[1"C,2#6, 1#10G]	[P51]	[4"C, 3#600KCM, 1#350KCM NEU,		
P28]	[1"C,3#6, 1#10G]		#350KCMG]	CONTRO	L CABLE CIRCUIT CALLOUTS
P29]	[1"C,3#6, 2#14,1#10G]	[P52]	[2 EACH (3"C, 3#250KCM, 1#2G)]	[CC5]	[3/4"C,1-5C TYPE 1]
P30]	[1"C,3#6, 3#14,1#10G]	[P53]	[2 EACH (3"C, 3#350KCM, 1#1G)]	[CC7]	[3/4"C,1-7C TYPE 1]
_			-	[CC9]	[1"C,1-9C TYPE 1]
P31]	[1"C,3#6, 4#14,1#10G]	[P54]	[2 EACH (4"C, 3#500KCM, 1#1/0G)]	[CC12]	[1"C,1-12C TYPE 1]
P32]	[1"C,3#6, 5#14,1#10G]	[P55]	[2 EACH (4"C, 3#600KCM, 1#1/0G)]	[CC19]	[1 1/2 ", 1-19C TYPE 1]
[P33]	[4"C,3#6, 1#10G]	[P56]	[3 EACH (4"C, 3#500KCM, 1#1/0G)]	[CC25]	[1 1/2"C,1-25C TYPE 1]
		[P57]	[3 EACH (4"C, 3#600KCM, 1#3/0G)]	[CC37]	[2"C,1-37C TYPE 1]
		[P58]	[4 EACH (4"C, 3#600KCM, 1#1/0G)]		[1-7C #12 TYP 1]
		[P59]	[5 EACH (4"C, 3#600KCM, 1#4/0G)]	[CCC1]	[1-70 #12 1 1 F 1]
		[P60]	[6 EACH (4"C, 3#600KCM, 1#1/0G)]		
		[P61]	[8 EACH (4"C, 3#600KCM, 1#1/0G)]		
		[P62]	[10 EACH (4"C,3#600KCM, 1#1/0G)]		
	ANALOG OIDOUT OALLOU				
	ANALOG CIRCUIT CALLOU	15	CONTROL CIRCUIT CALLOUTS		
[A1]	[3/4"C,1 TYPE 3]	[0	C1] [1"C,MSC]		
[A2]	[1"C,2 TYPE 3]		C2] [3/4"C,2#14,1#14G]		
A3]	[1"C,3 TYPE 3]		C3] [3/4"C,3#14,1#14G]	[CAT]	[1"C, CAT 6 CABLE]
A4]	[1"C,4 TYPE 3]		C4] [3/4"C,4#14,1#14G]	[CX]	[1"C, COAX]
[A5]	[1 1/4"C,5 TYPE 3]		-	[MSC]	[MANUFACTURER SUPPLIED CABLE]
	[1 1/4"C,6 TYPE 3]		C5] [3/4"C,5#14,1#14G]		[
[A6]			C6] [3/4"C,6#14,1#14G]		
A7]	[1 1/2"C,7 TYPE 3]		C7] [3/4"C,7#14,1#14G]		
[8A]	[1 1/2"C,8 TYPE 3]		C8] [3/4"C,8#14,1#14G]	AED BOY	VER CABLE ALLOUTS
A9]	[1 1/2"C,9 TYPE 3]	[4	C9] [3/4"C,9#14,1#14G]	APD POV	VEIX OADLE ALLOUIS
A10]	[2"C,10 TYPE 3]	[[C10] [3/4"C,10#14,1#14G]	[PV1]	[1"C,1(3C#12,1#12G) TYPE 8]
A11]	[2"C,11 TYPE 3]	[4	C11] [3/4"C,11#14,1#14G]	[PV2]	[1 1/2"C,1(3C#10,1#10G) TYPE 8]
A12]	[2"C,12 TYPE 3]		C12] [3/4"C,12#14,1#14G]	[PV3]	[1 1/2"C,1(3C#8,1#8G) TYPE 8]
A13]	[2"C,13 TYPE 3]		C13] [3/4"C,13#14,1#14G]	[PV4]	[2"C,1(3C#6,1#6G) TYPE 8]
A14]	[2"C,14 TYPE 3]		C14] [3/4"C,14#14,1#14G]	[PV5]	[4"C,1(3C#6,1#6G) TYPE 8]
A15]	[3/4"C,1 TYPE 4]		C15] [3/4"C,15#14,1#14G]	[PV6]	[2"C,1(3C#4,1#4G) TYPE 8]
A16]	[3/4"C,2 TYPE 4]	-		I	
A17]	[3/4 0,2 111 E 4] [1"C,3 TYPE 4]		C16] [3/4"C,16#14,1#14G]	[PV7]	[2 1/2"C,1(3C#2,1#2G) TYPE 8]
_		-	C17] [3/4"C,17#14,1#14G]	[PV8]	[2 1/2"C,1(3C#1/0,3#10G) TYPE 9]
A18]	[1 1/4"C,4 TYPE 4]		C18] [3/4"C,18#14,1#14G]	[PV9]	[4"C,1(3C#1/0,3#10G) TYPE 9]
A19]	[1 1/4"C,5 TYPE 4]		C19] [3/4"C,19#14,1#14G]	[PV10]	[2 1/2"C,1(3C#2/0,3#8G) TYPE 9]
A20]	[1 1/4"C,6 TYPE 4]	[9	C20] [1"C,20#14,1#14G]	[PV11]	[3"C,1(3C#4/0,3#8G) TYPE 9]
A21]	[1 1/2"C,7 TYPE 4]	[[C21] [1"C,21#14,1#14G]	[PV12]	[3"C,1(3C#250,3#8G) TYPE 9]
A22]	[1 1/2"C,8 TYPE 4]	[4	C22] [1"C,22#14,1#14G]	[PV13]	[3 1/2"C,1(3C#350,3#8G) TYPE 9]
A23]	[2"C,9 TYPE 4]		C23] [1"C,23#14,1#14G]	[PV14]	[4"C,1(3C#500KCM,3#8G) TYPE 9]
A24]	[3/4"C,1-4 pr. TYPE 5]		C24] [1"C,24#14,1#14G]	[PV15]	[2 EACH [2"C,1 (3C#4/0, 3#8G) TYPE 9]
A25]	[1"C,2-4 pr. TYPE 5]	-	C25] [1"C,25#14,1#14G]	[PV16]	[2 EACH [3"C, 1(3C#250,1#8G) TYPE 9]
J	. , , , , , , , , , , , , , , , , , , ,			[[[[[[[[[[[[[[[[[[[[[2 L. O. 1 [0 0, 1 (00#200, 1#00) 11FE 8]
			C30] [1 1/4"C, 30#14, 1#14G]		
			C34] [1 1/2"C, 34#14, 1#14G]		
			C36] [1 1/2"C, 36#14, 1#14G]		
		[C60] [2"C, 60#14,1#14G]		
			C68] [2"C, 68#14, 1#14G]		
		E CIRCUIT	CALLOUTS		
	DATA HIGHWAY CARL			_	
	DATA HIGHWAY CABLI				
DP] FODP]	[1"C, PROFIBUS, DP CAB [1"C, FIBER OPTIC CABLE	LE]			

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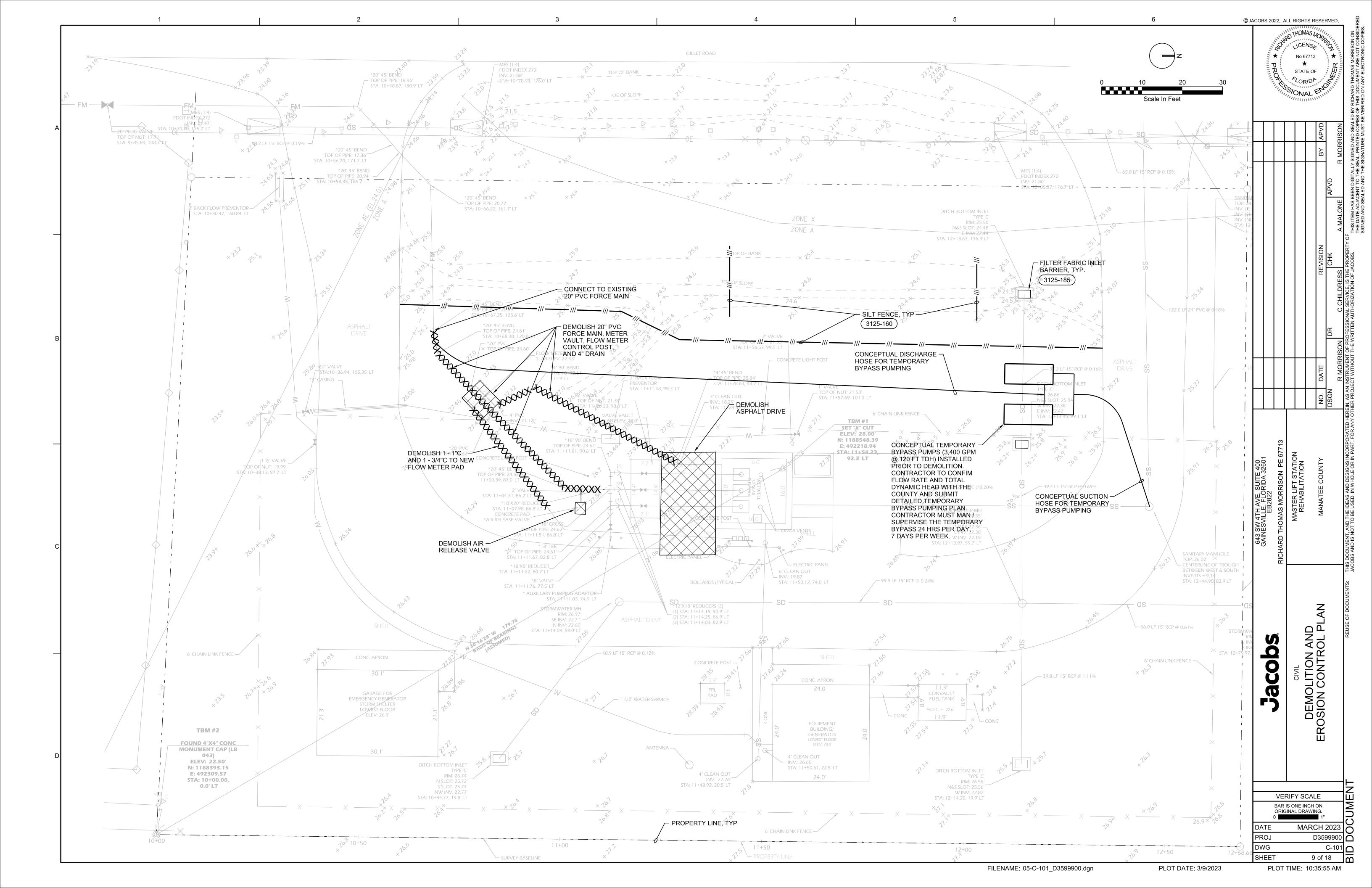
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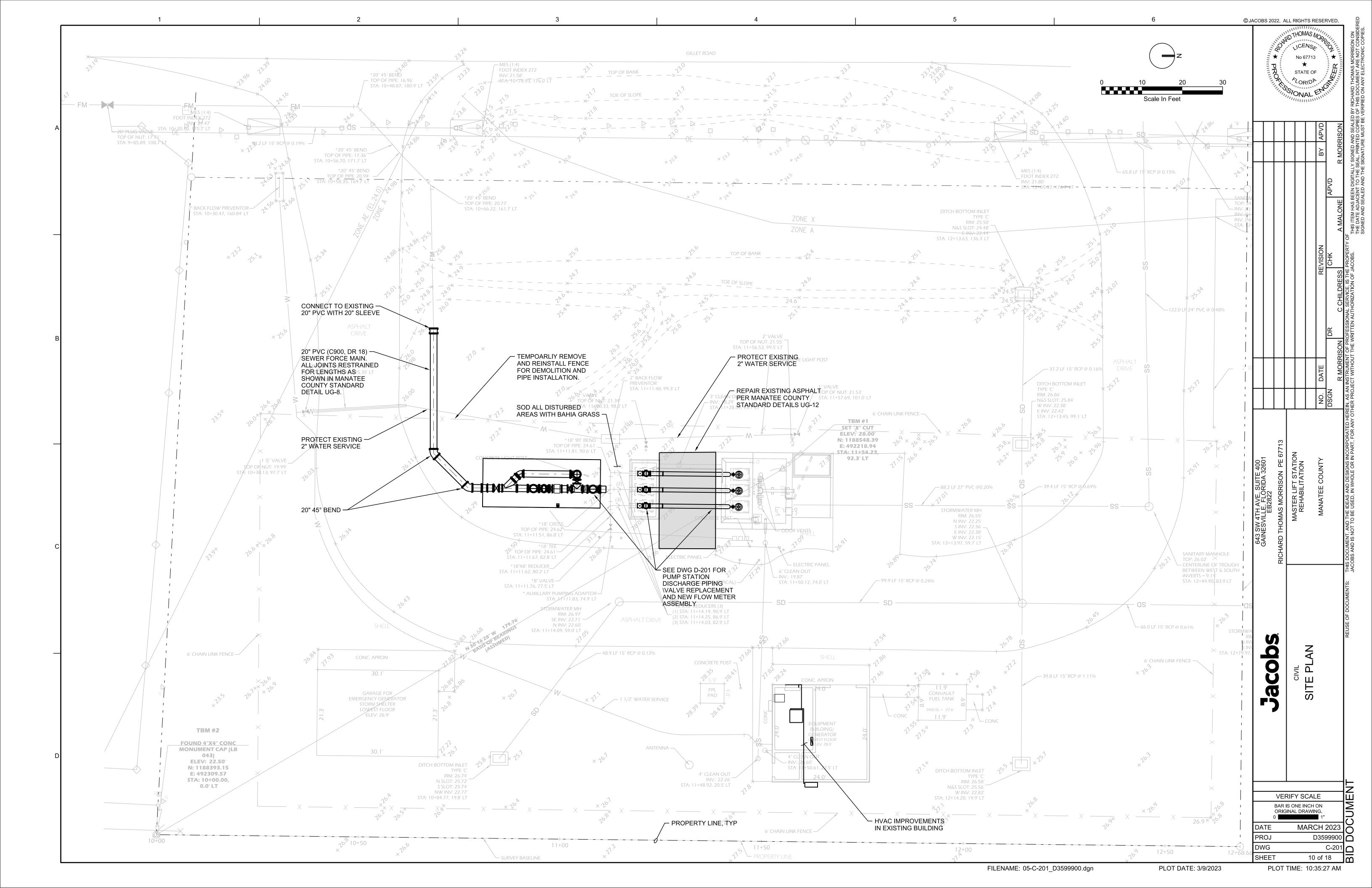
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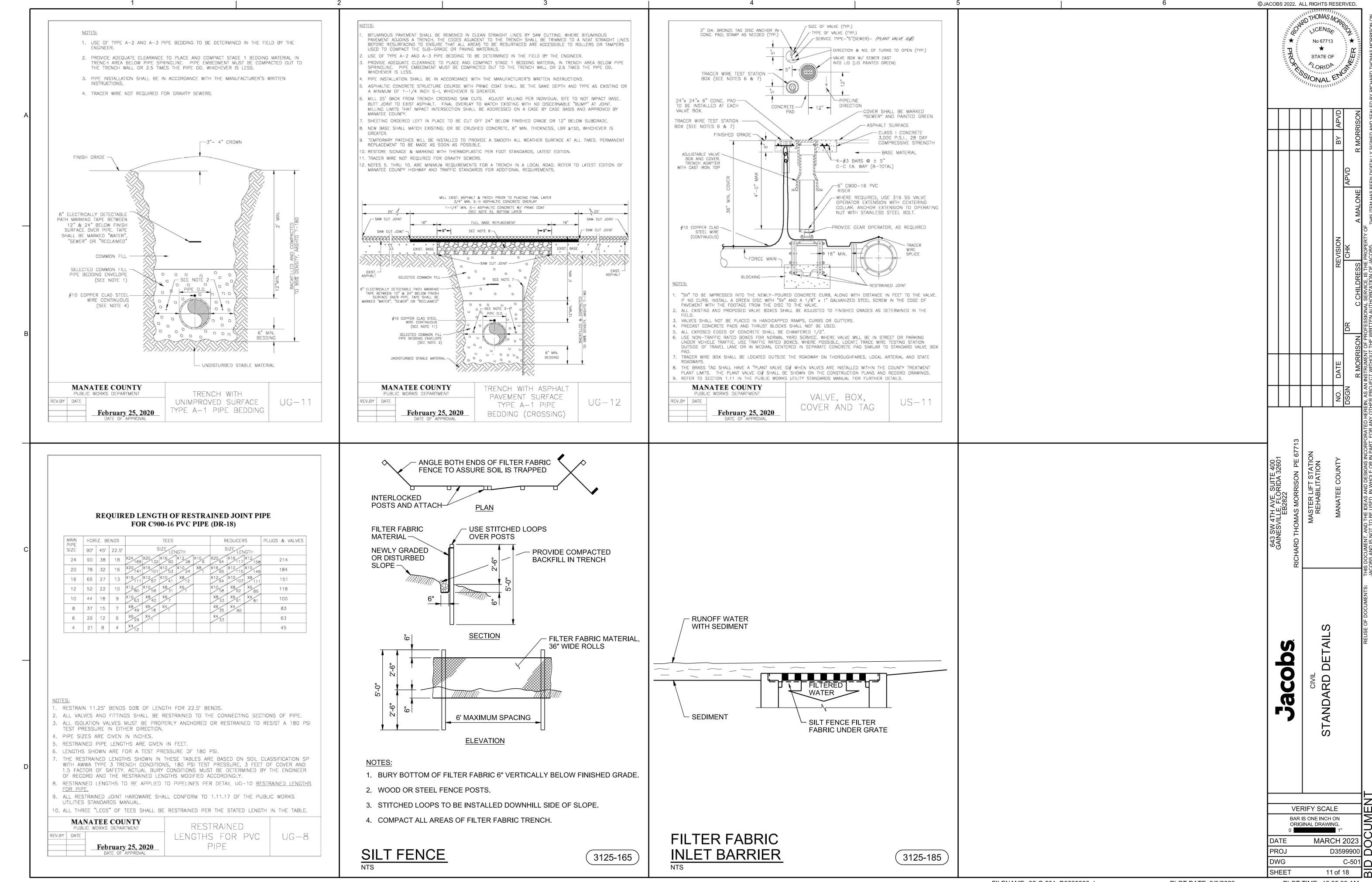
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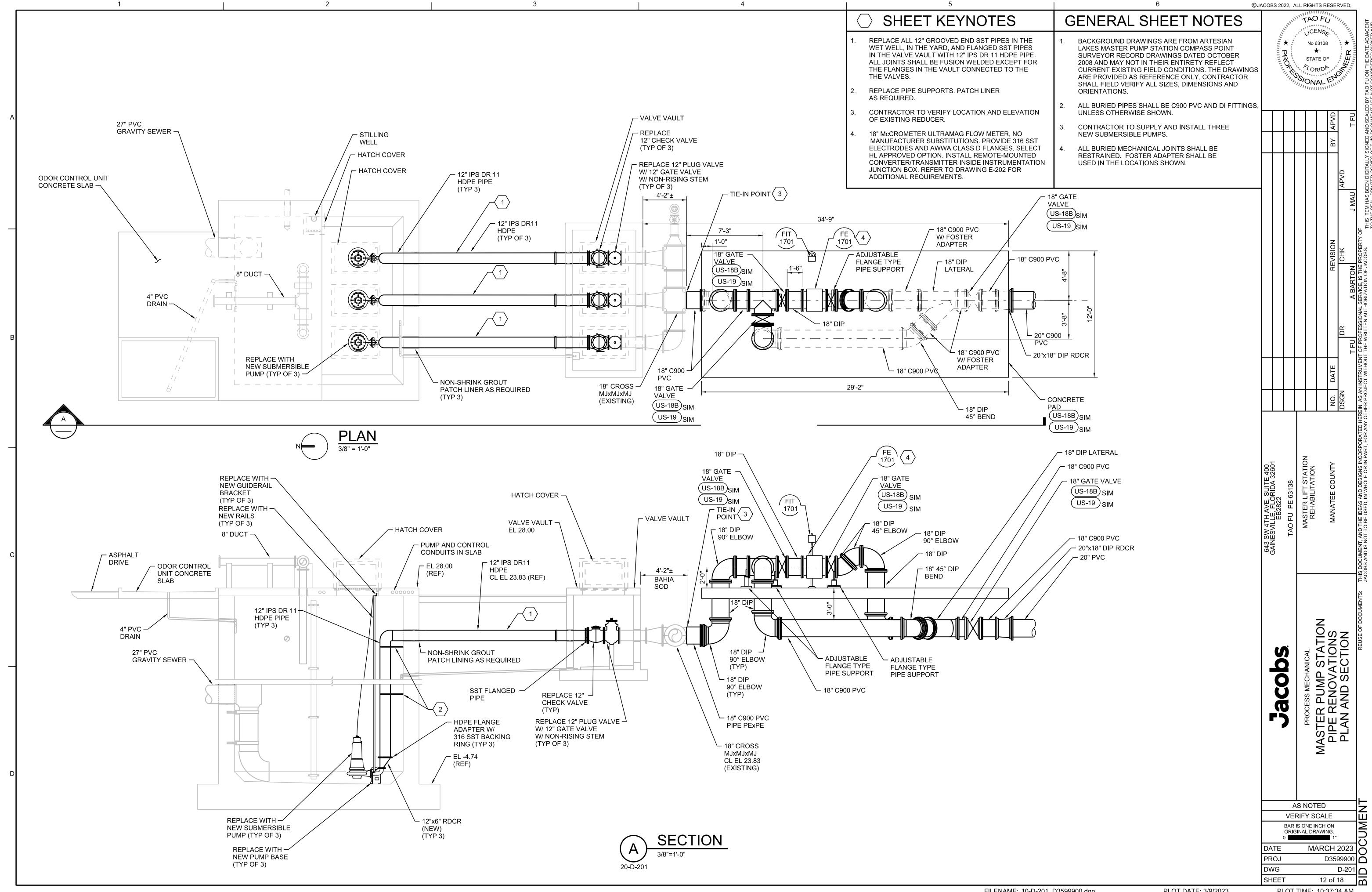
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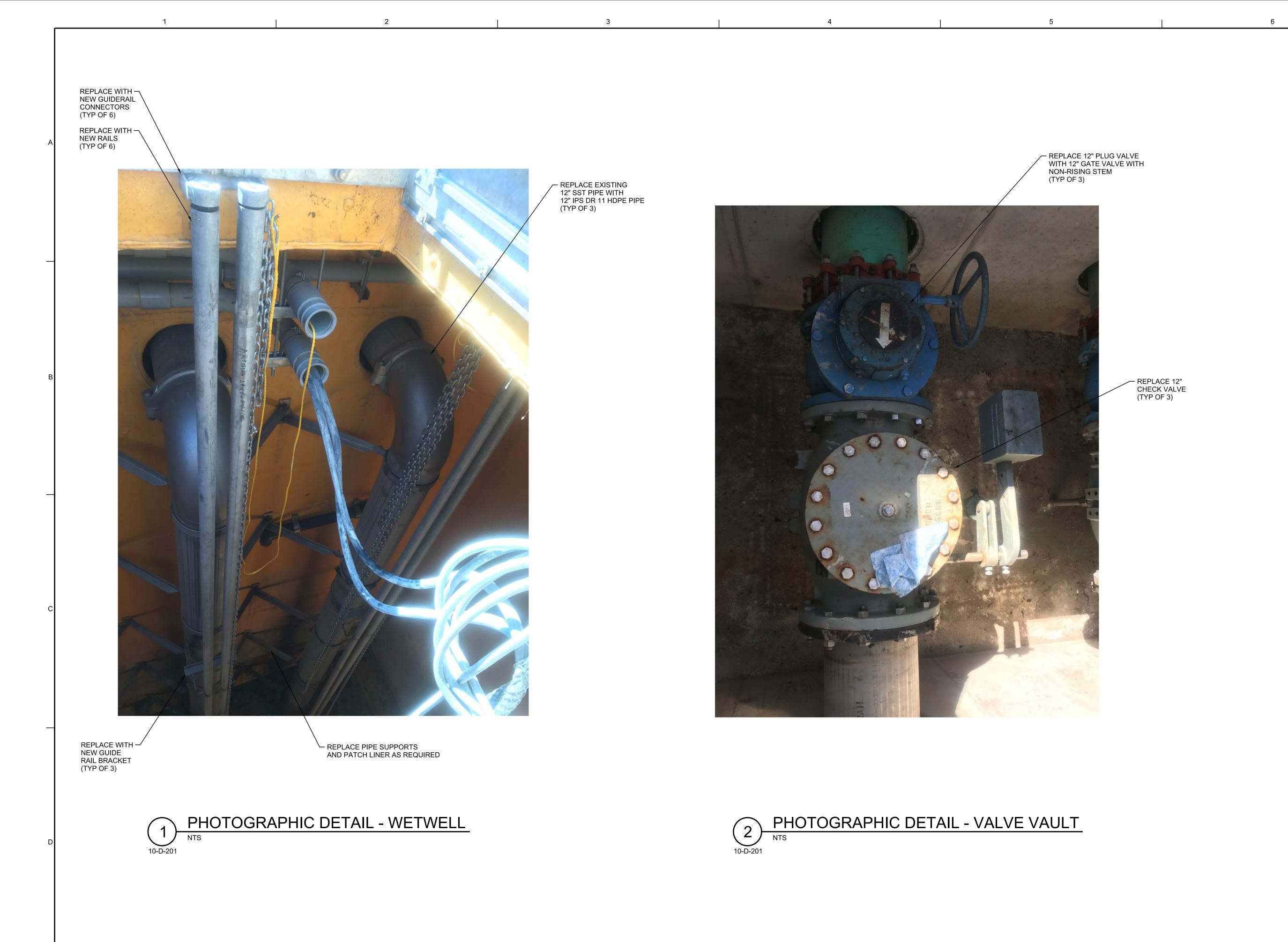
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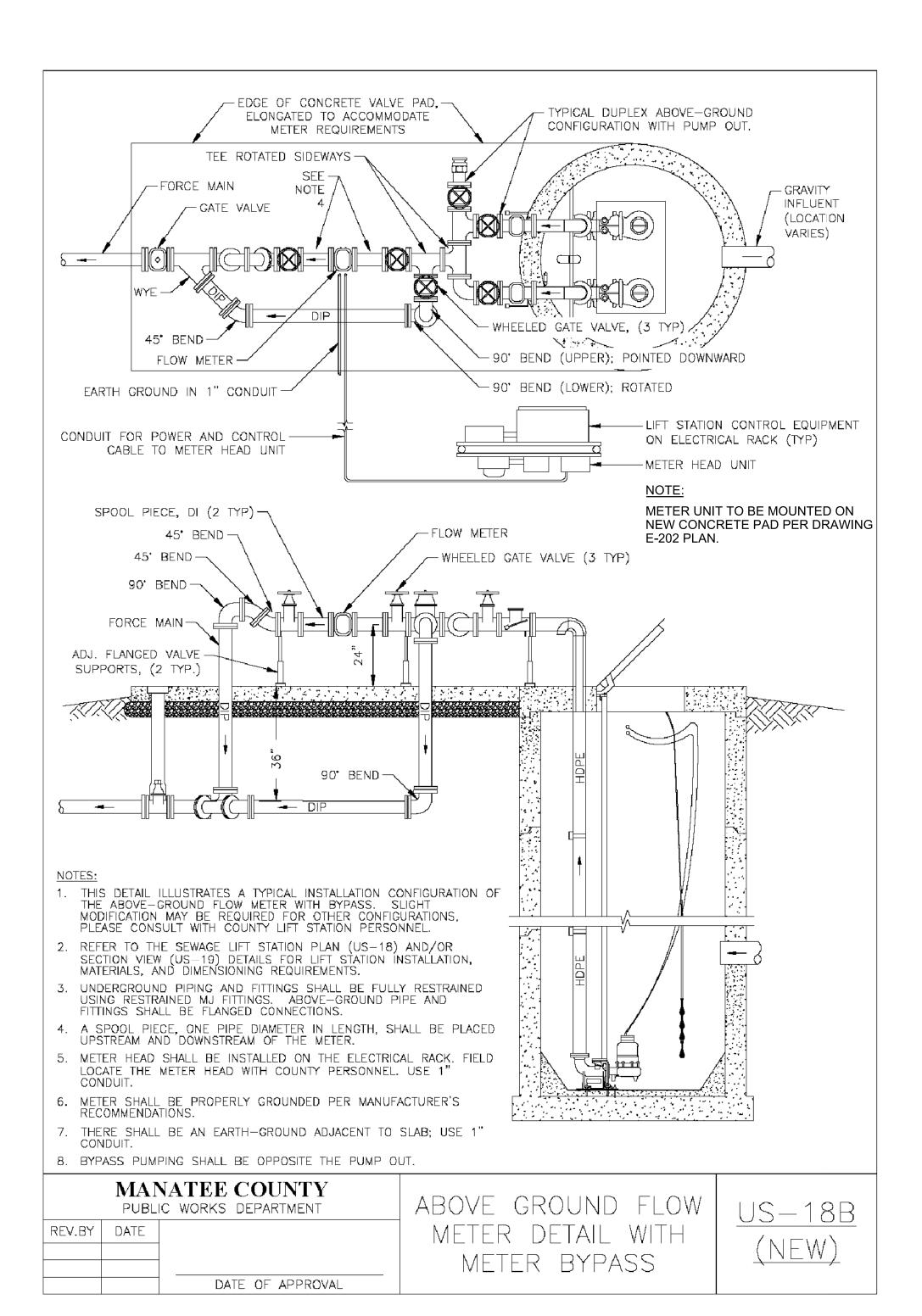
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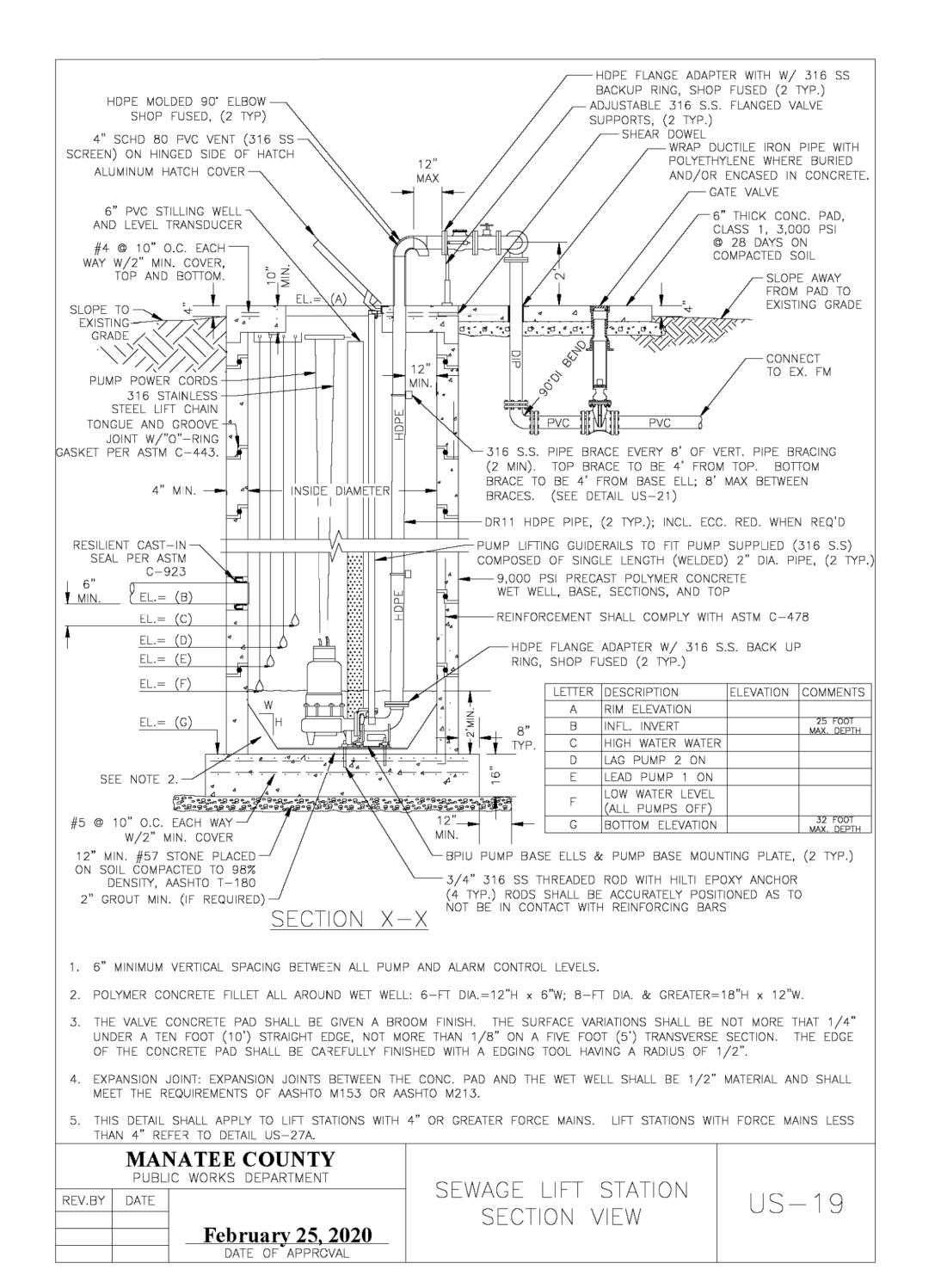
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STATE OF

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D-501

14 of 18

- INSTALL TOP COURSE BOND BEAM IN 2ND BLOCK OF BLOCK AFTER **COURSE BELOW** WALL FULLY GROUTED, REMOVE FACE SHELLS TOP OF WALL — OF UNITS AS REQD FOR INSTALLATION ON SIDE NOT EXPOSED TO VIEW, AND DRY PACK GROUT CELLS AROUND REINFORCING - #5 VERTS @ EA END HORIZONTAL OF WALL PANEL AND JOINT @ 32" MAX SPACING, REINFORCING SEE NOTE 3 @ 16" OC — - #5 BENT ADHESIVE DOWELS @ 32" MAX SPACING, EMBED 5" INTO EXISTING FULLY GROUTED MASONRY OR CONCRETE EA SIDE OF OPENING - 1 - #5 IN HORIZONTAL BOND BEAM @ BOTTOM OF WALL - #5 ADHESIVE DOWELS, EMBED DOWELS 6" MIN INTO EXISTING CONCRETE OR MASONRY BOND BEAM AT TOP & BOTTOM OF

1 - #5 IN HORIZONTAL

1. BLOCK INFILL TO MATCH EXISTING ADJACENT BLOCK SIZE, COLOR, TEXTURE, JOINT, STACKED OR RUNNING BOND.

OPENING (LAP W/ VERTS)

- 2. FOR WALL PANELS WITH OPENINGS TO BE FILLED THAT ARE IN EXCESS OF 30% OF WALL AREA, REPLACE WALL PANEL COMPLETE.
- 3. LAP VERTICAL BARS 48 BAR DIAMETERS WITH TOP AND BOTTOM DOWELS AS SHOWN. ALL INTERMEDIATE LAPS SHALL BE 72 BAR DIAMETERS.
- 4. USE OPEN-ENDED CMU UNITS AS REQUIRED TO CONSTRUCT WALL.
- 5. APPLY STUCCO ON THE OUTSIDE ACCORDINGLY TO MATCH AESTHETICS OF BUILDING.

- DEMOLISH EXISTING FAN AND ALL ASSOCIATED APPURTENANCES. INFILL WALL OPENING ACCORDINGLY TO MATCH AESTHETICS OF THE BUILDING.
- 2. EXISTING CONDENSER UNIT TO REMAIN.
- 3. EXISTING INDOOR UNIT TO REMAIN. REMOVE PLYWOOD PANEL BEHIND UNIT AND INFILL WALL OPENING ACCORDINGLY TO MATCH AESTHETICS OF THE BUILDING. SEE DETAIL



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EB2822	ABEL VALIENTE PE 70128	MASTER LIFT STATION	REHABILI A IION	MANATEE COUNTY			DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF JAS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF JACOBS.	

	VERIFY SCALE
	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"
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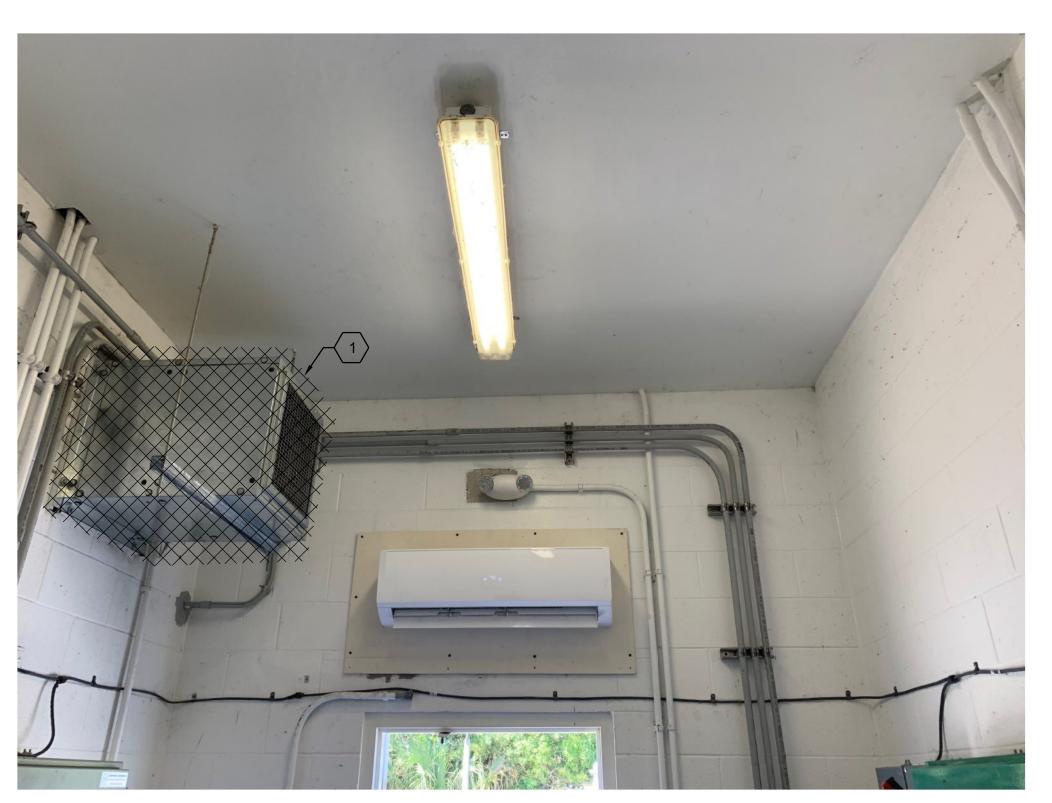


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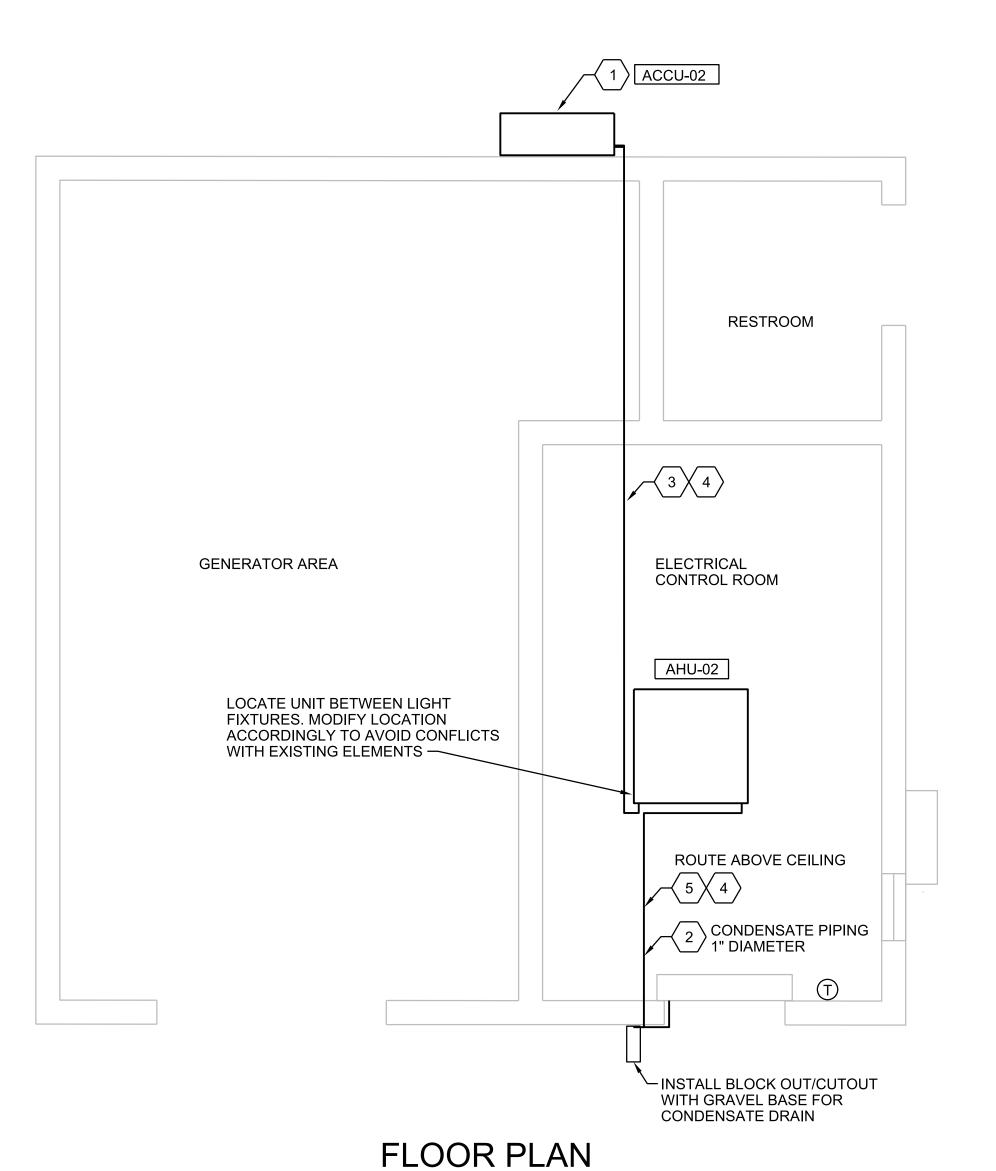
GENERATOR AREA	ELECTRICAL CONTROL ROOM
	A
	2
	3

RESTROOM

FLOOR PLAN
3/8"=1'-0"

15 of 18

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SEQUENCE OF OPERATION

EXISTING DX SPLIT AIR CONDITIONING AHU/ACCU-01 . NEW DX SPLIT AIR CONDITIONING AHU/ACCU-02

THE NEW UNIT IS SIZED AT 100% OF THE REQUIRED TOTAL CAPACITY. THE SYSTEMS SHALL BE CONTROLLED VIA 7-DAY PROGRAMMABLE THERMOSTAT (ONE PER UNIT). SETPOINTS SHALL BE ADJUSTABLE BY THE USER AT THE THERMOSTAT AND SHALL BE PROGRAMMED SO LEAD AND LAG UNITS SETPOINTS ALTERNATE AS SHOWN BELOW TO EQUALIZE RUN

AHU/ACCU-1 & 2 **SETPOINTS SCHEDULE:**

UNIT	SCHEDULE	COOLING F(ADJ)
AHU-01	MON-THU(12:00 PM)	77
	THU(12:01 PM)-SUN	82
AHU-02	MON-THU(12:00 PM)	82
	THU(12:01 PM)-SUN	77

OPERATION COOLING MODE:

UPON A RISE OF THE TEMPERATURE IN THE ELECTRICAL ROOM OVER THE FIRST TEMPERATURE SETPOINT 77 DEGREES F(ADJ), THE LEAD SYSTEM SUPPLY FAN SHALL START AND THE DX COOLING STAGES SHALL CYCLE TO MAINTAIN THE FIRST SPACE TEMPERATURE SETPOINT, UPON FURTHER RISE OF THE SPACE TEMPERATURE OVER THE SECOND TEMPERATURE SETPOINT 82 DEGREES F (ADJ), THE LAG SYSTEM SUPPLY FAN SHALL ENERGIZE AND THE DX COOLING SHALL CYCLE TO MAINTAIN THE SECOND TEMPERATURE SETPOINT. AS THE SPACE TEMPERATURE SETPOINTS ARE SATISFIED, THE SYSTEMS SUPPLY FANS SHALL STOP AND THE DX COOLING SHALL BE INHIBITED FROM OPERATING.

GENERAL NOTES

- 1. LOCATE THERMOSTATS 5'-0" FEET ABOVE FINISHED FLOOR. CONTRACTOR SHALL FIEL VERIFY EXISTING SYSTEM THERMOSTAT AND REPLACE IF NEEDED WITH 7-DAY PROGRAMMABLE THERMOSTAT.
- MECHANICAL WORK SHALL COMPLY WITH ALL APPLICABLE CODES. VERIFY REQUIREMENTS PRIOR
- EQUIPMENT, REFRIGERANT PIPING AND CONDENSATE PIPING SHALL NOT BE LOCATED DIRECTLY ABOVE ELECTRICAL EQUIPMENT.

TO COMMENCING WORK.

SHEET KEYNOTES

- MOUNT NEW CONDENSER ON WALL WITH BRACKET PROVIDED BY EQUIPMENT MANUFACTURER. FIELD VERIFY LOCATIONTO AVOID CONFLICTS WITH OTHER EQUIPMENT, CONDUIT, ETC.
- CONDENSATE DRAIN FULL SIZE OF UNIT CONNECTION. PIPE WITH TRAP AND SLOPE 1/8" PER FOOT. COMBINE CONDENSATE PIPING FROM BOTH UNITS AS SHOWN IN DRAWINGS. DISCHARGE TO EXISTING LOCATION USED BY EXISTING EQUIPMENT
- ROUTE ALL PIPING ABOVE CEILING.
- ALL REFRIGERANT AND CONDENSATE PIPING SHALL BE INSULATED WITH CLOSED CELL ELASTOMERIC INSULATION, ARMAFLEX.
- CONDENSATE PIPING ABOVE CEILING.

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643 SW 4TH AVE, SUITE 400	GAINESVILLE, PLONIDA 32001 EB2822	ABEL VALIENTE PE 70128	MASSTED LET STATION	REHABILITATION	MANATEE COUNTY			

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No 70128

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DUCTLESS SPLIT SYSTEM DX INDOOR UNITS

SYMBOL	LOCATION	TYPE		FA	N) AIR STATIC P TO		DX COOLING DATA				DX HEATING DATA			FAI	FAN MOTOR DATA			UNIT ELECTRICAL DATA					UNIT DIM	IENSIONS		MANUFACTURER	MODEL	APPLICABLE	
			SUPPLY	SUPPLY	OUTSIDE	EXTERNAL																FACTORY				MAX.			REMARKS
			AIR(MAX)	AIR(MIN)	AIR	STATIC P	TOTAL	SENS.	EAT DE	EG. F	COND.	TOTAL	EAT	COND.	FLA	VOLT	PH	#CONN.	MCA	VOLT	PH	INSTALLED		INCHES	_	WEIGHT		1	
			CFM	CFM		IN W.G.	BTU/H	BTU/H	DB	WB	DEG. F	BTU/H	DB	DEG. F								DISCONNECT	L	W	Н	LBS			
AHU-02	CEILING	CASSETTE	810	530	0	0.25	24,000	20,640	80	67	95	29,000	70	47	0.49	208	1	1	1	208	1	NO	33 1/16	33 1/16	11 3/4	56	MITSUBISHI	PLA-A24EA7	A,B,C,D,E
					·	-																	•			•		·	·

- A: FACTORY INSTALLED MOTOR CONTACTOR/STARTER
- B: DISCONNECT PROVIDED BY DIVISION 26 ELECTRICAL

C: 2-INCHES THROWAWAY FILTER

D: 7-DAY PROGRAMMABLE THERMOSTAT

E: INDOOR UNIT POWERED BY THE OUTDOOR UNIT

SPLIT SYSTEM DX OUTDOOR UNITS

TAG LOCATION DX COOLING DATA DX HEATING DATA OUTDOOR FAN DATA COMPRESSOR DATA UNIT ELECTRICAL DATA UNIT DIMENSIONS MANUFACTURER MODEL APPL																															
-	TAG	LOCATION	DX CO	OLING DAT	TA	DX H	EATING D	ATA		OUT	DOOR FA	N DATA	١		CC	OMPRES	SOR DA	ATA		l	JNIT ELI	ECTRICA	L DATA			UNIT DIME	NSIONS		MANUFACTURER	MODEL	APPLICABLE
				AMBIENT	Γ																							MAX.	1	1	REMARKS
			CAPACITY	TEMP.	SEER	CAPACITY	COND.	COP	NO.	F.L.A	VOLT	PH	CFM	NO.	STEPS	RLA	LRA	VOLT.	PH.	# CONN	MCA	MOCP	VOLT	PH		INCHES		WEIGHT	1	1	
			BTU/HR.	DEG. F	@ ARI	BTU/HR.	DEG. F	@ ARI		(EA)			(TOTAL)			(EA.)	(EA.)					(FUSE)			L	W	Н	LBS	1	'	
AC	CU-02	WALL	24,000	95	24.2	29000	47	4.4	1	0.4	208	1	1940	1	1	7.0	11.0	208	1	1	19.0	26.0	208	1	14 3/16	37 13/32	37 1/8	153	MITSUBISHI	PUZ-A24NHA7	A,B,C,D

- A: FACTORY INSTALLED MOTOR CONTACTOR / STARTER
- C: WALL-MOUNT KIT
- B: 5 YEAR COMPRESSOR WARRANTY FOR THE COMPRESSOR
- D: DISCONNECT PROVIDED BY DIVISION 26 ELECTRICAL

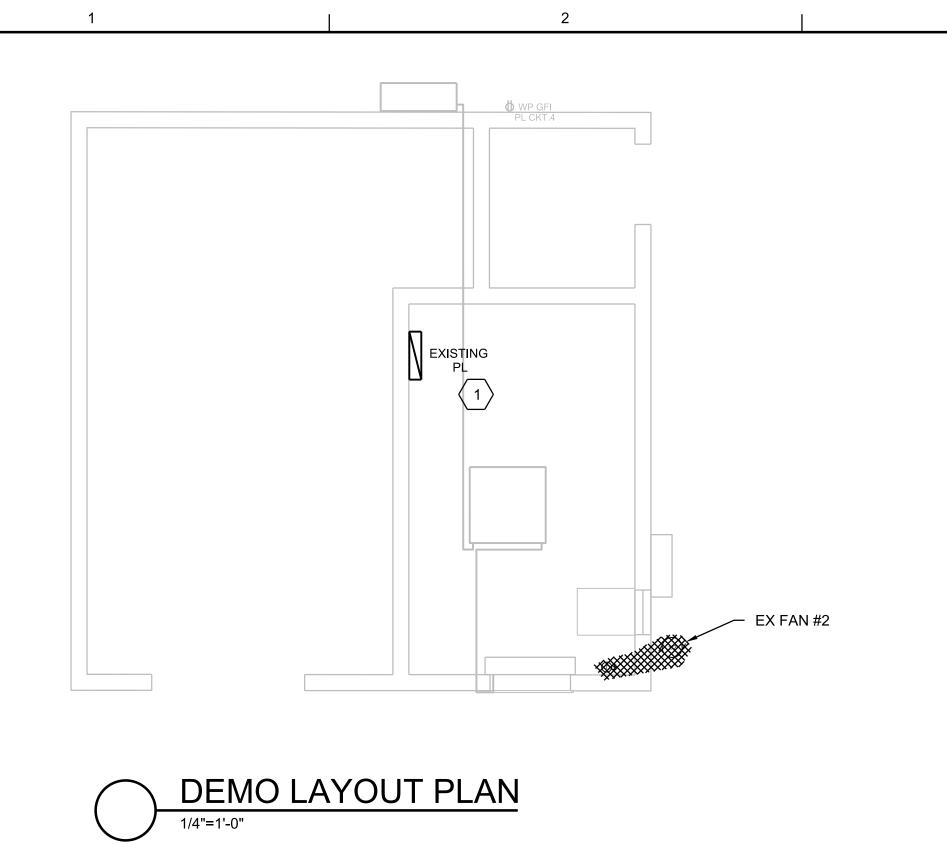
MARCH 2023

16 of 18

D3599900

M-201

AS NOTED **VERIFY SCALE** BAR IS ONE INCH ON ORIGINAL DRAWING.



JACKET HEATER

Description
PLANT LIGHTS
PLANT OUTLETS

DEMO PANELBOARD SCHEDULE

LIGHTING "L":

RECEPT "R":

KITCHEN "K":

MOTOR "M":

2.720 KVA @ 1.25 DF= 3.400 KVA 1.400 KVA, 1ST 10KVA + 50% OF REMAINDER= 1.400 KVA

0.000 KVA, TOTAL + 25% OF LARGEST= 0.000 KVA

2.520 KVA @ 1.00 DF= 2.520 KVA

0.000 KVA @ .65 DF= 0.000 KVA

1.440 KVA @ 1.00 DF= 1.440 KVA 10.800 KVA @ 1.00 DF= 10.800 KVA

MAIN BREAKER LSI

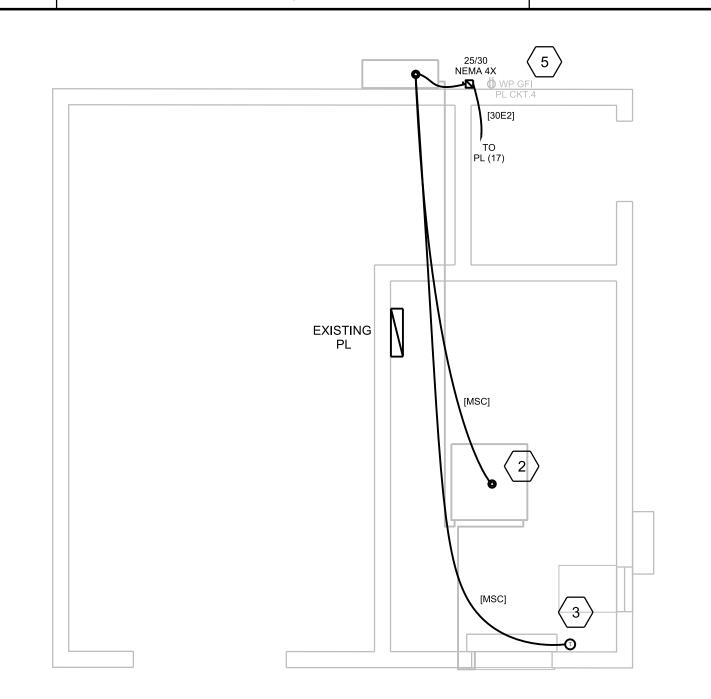
Description SURGE SUPPRESSOR

SPARE SPARE GEN CONTROLS

PRESSURE GAUGE DAY TANK

MAIN LUGS

200 AMPS



CIRCUIT CALLOUT SCHEDULE

[MSC] [30E2] 1"C, MANUFACTURER SUPPLIED CABLE 3/4"C, 2#10AWG, 1#10G

NEW LAYOUT PLAN

		MAIN BREAKER LSI	200	AMPS			PANEL	•	PL								
		MAIN LUGS	N/A	AMPS													
တ္က 🖡							Phase	Circuit	Mount	NEMA	Vol	tage					
" 1							3	42	Surface		120	240	AICE	RATING	22 000	AMPS	ဟ
NOTES -	Ckt.	Circuit	Wire	Trip	Brkr.	Load	A Phase		B Phase		Load	Brkr.	Trip	Wire	Circuit	Ckt.	NOTES
_	#	Description	Size	Amps	Pole		oad kV		Load kVA		Type	Pole	Amps	Size	Description	#	19
	1	SURGE SUPPRESSOR	8	50	2	1,700	-oud KV	1.40	Loud KV/		- IJPU	1	20	12	PLANT LIGHTS	2	Τ-
\neg	3	- CONCECCION TREGGON	8	-	_			1.10		1.40	R	1	20	12	PLANT OUTLETS	4	
\neg	5	EXTERIOR LIGHTS	12	20	1	1	0.48	0.72		1.40	Н	2	20	10	JACKET HEATER	6	
\dashv	7	SPARE	12	20	1		0.40	0.12		0.72	Н.	-	-	10	or concerning their	8	
_	9	TO 'PP'	3	100	2	S	3.00			0.12	- 11	1	20	10	SPARE	10	
	11	-	3	-		S	5.00		3.00	0.12	S	1	20	12	TO PMP CNTRL PNL	12	
\neg	13	SPARE	8	20	1			1.20	0.00	0.12	S	1	20	12	PHOTO CELL	14	
$\neg \uparrow$	15	LIGHTS/OUTLETS	12	20	1	1		1.20	0.84	0.36	A	1	20	12	FAN	16	
1 N	17	ACCU-2, AHU-2	10	30	2	A	2.00		0.04	0.00	/ \	1	20	12	SPARE	18	
* /	19	71000 2, 7410 2	10	-		A	2:00		2.00	0.36	Α	1	20	12	EXHAUST FAN #1	20	
_+	21	GEN CONTROLS	12	20	1	S	0.36	0.24	2.00	0.00	S	1	20	12	DATA FLOW RTU	22	
\neg	23	PRESSURE GAUGE	12	20	1	S	0.00	0.21	0.12	0.60	S	1	20	12	BATTERY CHG	24	
\neg	25	DAY TANK	12	20	1	S	0.72	0.72	0.12	0.00	A	2	20	10	A/C - 2 TONS	26	
\neg	27	GARAGE PANEL	3	100	2	S	0.12	0.12	0.72	0.72	A			10	770-21010	28	
\neg	29	-	3	-		S	0.72		0.12	0.72	/ (1	20	10	SPARE	30	
\neg	31	_					0.72					<u> </u>	20		OI / IIIL	32	
\neg	33															34	
\neg	35															36	
	37															38	
\neg	39															40	
\neg	41															42	
				Pha	ase kVA		11.560		10.960								
					otal kVA			.520		tal Amps	54	.24					
			To	tal Dema		_		.200		ad Amps		.88					
			10	tar D orric		`		.200	D GITT EG	aa / aripo							
					LIGHT	ING "L":	:	2 720	KVA@1	25 DF=	3 400	KVA					
						EPT "R":			KVA, 1S				NDFR=	1.400 k	KVA		
						A/C "A":			KVA @ 1				, DEI (1. 100 1			
						HEN "K":			KVA@.								
						OR "M":			KVA TO				0.000	I/A//A			
-													0.000	IVM			
-						ING "H": ISC " <mark>S</mark> ":			KVA @ 1								

NEW PANELBOARD SCHEDULE

SHEET KEYNOTES 1. DEMOLISH AND REMOVE ALL EXISTING CABLE AND CONDUIT FOR EX FAN #2, PANEL LP CKT#30. IDENTIFY CIRCUIT AS SPARE. MANUFACTURED SUPPLIED CABLE FROM SPLIT SYSTEM OUTDOOR UNIT ACCU-02 TO DUCTLESS SPLIT SYSTEM INDOOR UNIT AHU-02. ROUTE CABLE ABOVE CEILING.

CEILING. FURNISH AND INSTALL NEW 2POLE 30A BREAKER IN PANELBOARD PL.

MANUFACTURED SUPPLIED CABLE FROM SPLIT SYSTEM OUTDOOR UNIT ACCU-02 TO THERMOSTAT LOCATED NEAR DOOR. ROUTE CABLE ABOVE

CONTRACTOR TO CONFIRM EXISTING WP RECEPTACLE IS LOCATED WITHIN 25 FT OF NEW HVAC EQUIPMENT.

MASTER PUMP STATION DEMO AND NEW PLANS AND SCHEDULES Jacobs

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MARCH 2023

17 of 18

D3599900

1" = X' **VERIFY SCALE** BAR IS ONE INCH ON ORIGINAL DRAWING.

© JACOBS 2022. ALL RIGHTS RESERVED. SHEET KEYNOTES 1. TO BE FIELD VERIFIED BY THE CONTRACTOR; INTERCEPT 1" CONDUIT BETWEEN CONTROL JUNCTION BOX AT DISCONNECT AND NEMA 4X INSTRUMENTATION JUNCTION BOX AT FENCE. INTERCEPT POWER CONDUIT SCH 80 PVC AND 120V, 3#12 FROM PNL 'PP'. REROUTE EXISITING **EXISTING CONTROL** CONDUITS TO NEW INSTRUMENT LOCATION. SS JCT BOX EXISTING PNL **EXISTING POWER** RELOCATE EXISTING INSTRUMENTATION JUNCTION SS JCT BOX BOX FROM 6" X 6" CONCRETE POST NEAR FENCE TO NEW UNISTRUT MOUNT. SEE DEMO SHEET 1 05-C-101 FOR LOCATION. 3. FURNISH AND INSTALL A NEW 3/4" PVC SCH 80 CONDUIT AND MANUFACTURERS SUPPLIED CABLE EXISTING SCH 80 TO FLOW METER PVC CONDUITS INSTALL McCROMETER ULTRAMAG REMOTE CONVERTER/TRANSMITTER INSIDE INSTRUMENTATION JUNCTION BOX. MANUFACTURER'S STANDARD 4-20mA SIGNAL OUTPUT AND 120VAC POWER SOURCE OPTIONS. INSTALL SURGE SUPPRESSION INSIDE INSTRUMENT JUNCTION BOX FOR POWER AND SIGNAL CIRCUITS FROM THE CONTROL PANEL. PROVIDE MANUFACTURER'S GROUNDING RINGS ON ELECTROMAGNETIC FLOW METER AND CONNECT TO FACILITY GROUND AND NEW 3/4"x20' COPPER GROUND ROD; CONNECTION VIA EXOTHERMIC WELD. PULL NEW MANUFACTURERS SUPPLIED CABLE WITHIN EXISTING 3" SCH 80 PVC CONDUIT TO NEW SUBMERSIBLE PUMPS AT BOTH SS JCT BOXES MANATEE COUNTY WILL FILL SEAL-OFFS. CONNECT TO EXISTING FACILITY GROUND GRID, OR, IF REQUIRED ESTABLISH A NEW GROUND ELECTRODE EXOTHERMIC WELDED. ELECTRICAL EQUIPMENT LAYOUT 1/4" = 1'-0" PNL 'PP' CKT. 2 CONTROL SS JCT BOX POWER SS JCT BOX 20A [3 X MSC] TJB AT FLOW METER Jacobs (MSC) RISER DIAGRAM

> D3599900 E-202 f 18 18 of 18 PLOT TIME: 10:35:53 AM

1" = X' VERIFY SCALE

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No 60201

STATE OF

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