

COLLIER COUNTY PUBLIC UTILITIES GOODLAND PUMP STATION IMPROVEMENTS

1600 CHEVROLET WAY, SUITE 102
ESTERO, FL 33928
TEL: (239) 390-1467 FAX: (239) 390-1769



TETRA TECH

www.tetrattech.com

PROJECT LOCATION:
2559 SAN MARCO RD.
SECTION 13, TOWNSHIP 52, RANGE 26

CLIENT INFORMATION:
COLLIER COUNTY PUBLIC UTILITIES
3339 TAMIAMI TRAIL EAST, SUITE 301
NAPLES, FL 34112

Tt PROJECT No.:
200-08486-22002

CLIENT PROJECT No.:
70276.2

PROJECT DESCRIPTION / NOTES:
UPGRADES TO THE GOODLAND PUMP STATION.

ISSUED:

PERMIT SET - AUGUST 2025



This date has been digitally signed and sealed by Tyler Wainright, P.E.
Printed copies of this document are not considered signed and sealed and the signature
must be verified on any electronic copies.

Digitally signed by Tyler
C Wainright
Date: 2025.10.03
16:38:20 -04'00'

VICINITY MAP:



PREPARED FOR
COLLIER COUNTY PUBLIC UTILITIES
COLLIER COUNTY WATER-SEWER DISTRICT
3339 TAMIAMI TRAIL E., SUITE 303
NAPLES, FLORIDA 34112

AUGUST 2025

BOARD OF COUNTY COMMISSIONERS

RICK LOCASTRO
CHRIS HALL
BURT L. SAUNDERS
DAN KOWAL
WILLIAM L. MCDANIEL, JR.

DISTRICT 1
DISTRICT 2 (CHAIRMAN)
DISTRICT 3 (VICE CHAIRMAN)
DISTRICT 4
DISTRICT 5



COLLIER COUNTY

TYLER WAINRIGHT, P.E.
LICENSE #80476
Tetra Tech Inc.
10600 Chevrolet Way, Ste. 102
Estero, Florida 33928
Engineering Business No. 2429

DATE _____



**MARCO ISLAND
FIRE RESCUE**
Reviewed and approved for Fire Code Compliance
pursuant to FFPC 1-1.54
Plans must be on the job site at the time of inspection.
Any errors or omissions in these plans shall be made
to conform with applicable code requirements.
Daniel Zunzunegui, Fire Marshal
02/27/2028

LIST OF STANDARD ABBREVIATIONS

A AAP ALARM ANNUNCIATOR PANEL AAV VALVE AAV AUTOMATIC AIR VENT AB ANCHOR BOLT ABAN ABANDON(ED) ABRSV ABRASIVE ABS ACRYLONITRILE BUTADIENE STYRENE ABV ABOVE AC ALTERNATING CURRENT ACOMP ASPHALT-COATED ACP CORRUGATED METAL PIPE ADDM ADDENDUM ADH ADHESIVE AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AFS ABOVE FINISHED SLAB AHD AHEAD AL ALUMINUM ALT ALTERNATE AMP AMPERE AMT AMOUNT APRX APPROXIMATE(LY) ARCH ARCHITECT(URAL) AS ALUM SOLUTION ASPH ASPHALT ASSY ASSEMBLY AVE AVENUE AVC AIR CONDITIONING AVV AIR/VACUUM AIR VALVE	B BAF BAFFLE BCV BALL CHECK VALVE BLD BLIND FLANGE BFV BUTTERFLY VALVE BHP BRAKE HORSEPOWER BI BLACK IRON BITUM BITUMINOUS OR BITUMASTIC BLD BUILDING BLK BLOCK BMC BENCH MARK BOC BACK OF CURB BOT BOTTOM BP BASE PLATE BRG BEARING BSP BLACK STEEL PIPE BV BALL VALVE BW BOTH WAYS BWW BACKWASH WATER	C CAP CAPACITY CA COMPRESSED AIR CAV COMBINATION AIR VALVE CB CATCH BASIN CCC CHLORINE CONTACT CHAMBER CE CHLORINATED EFFLUENT CFM CUBIC FEET PER MINUTE CFS CUBIC FEET PER SECOND CV CHECK VALVE CI CAST IRON CIP CAST IRON PIPE CISP CAST IRON SOIL PIPE CJ CONSTRUCTION JOINT CKT CIRCUIT CL CENTER LINE CL2 CHLORINE GAS CLF CHAIN LINK FENCE CLR CLEAR OR CLEARANCE CLVT CULVERT CMP CORRUGATED METAL PIPE CMPA CORRUGATED METAL PIPE ARCH CMU CONCRETE MASONRY UNIT CND CONDUIT CNR CORNER CO CLEAN OUT CO2 CARBON DIOXIDE COAG COAGULANT COL COLUMN COM COMMON CONC CONCRETE CONN CONNECTION CONSTR CONSTRUCT(ION) CONT CONTINUOUS CONTR CONTRACT(OR) COORD COORDINATE CO COMPANY CP CONCRETE PIPE CPA CONCRETE PIPE ARCH CPLG COUPLING CPVC CHLORINATED POLYVINYL CHLORIDE CR CONCENTRIC REDUCER CS CHLORINE SOLUTION CSG CASING CTV CABLE TELEVISION CY CUBIC YARD CYL CYLINDER C&G CURB AND GUTTER CIC CENTER TO CENTER	D DAT DATUM DBL DOUBLE DC DIRECT CURRENT DEMO DEMOLITION DEPT DEPARTMENT DESC DESCRIPTION DET DETAIL DF DIESEL FUEL DI DUCTILE IRON DIA DIAMETER DIFF DIFFUSER DIM DIMENSION DIP DUCTILE IRON PIPE DISCH DISCHARGE DIR DIRECTION DMH DROP MANHOLE DN DOWN DR DRAIN DRV DIAPHRAGM VALVE DW DRIVEWAY DWG DRAWING DWW DRAIN, WASTE, AND VENT	E E EAST EA EACH ECC ECCENTRIC EF EACH FACE EFF EFFLUENT EL EASEMENT LINE EL ELEVATION ELAST ELASTOMERIC ELEC ELECTRICAL EMER EMERGENCY EMC ENCASE(MENT) ENGR ENGINEER EP EDGE OF PAVEMENT EPDM ETHYLENE PROPYLENE DIENE MONOMER EPRF EXPLOSION PROOF EQUIP ER ECCENTRIC REDUCER ESTM EASEMENT EST ESTIMATE(D) EW EACH WAY EXC EXCAVATE EXP EXPANSION EXST EXISTING EXST GR EXISTING GRADE EXT EXTERIOR EXTN EXTENSION	F F FABRICATE(D) FCA FLANGED COUPLING ADAPTER FB FLAT BAR FCV FLOW-CONTROL VALVE FD FLOOR DRAIN FDN FOUNDATION FE FILTER(ED) EFFLUENT FHY FIRE HYDRANT FIG FIGURE FIN FINISH(ED) FIN FLR FINISH FLOOR FIN GR FINISH GRADE FL FLUORIDE FLG FLANGE(D) FLG FLOW LINE FLTR FILTER FM FORCE MAIN FPM FEET PER MINUTE FPS FEET PER SECOND FRP FIBERGLASS REINFORCED PLASTIC FT FOOT OR FEET FUT FUTURE FV FOOT VALVE FW FINISHED WATER FWP FACTORY WREED PANEL F/F FACE TO FACE	G G GAUGE GAL GALLON(S) GALV GALVANIZED GIP GALVANIZED IRON PIPE GJ GROOVE JOINT GND GROUND GPD GALLONS PER DAY GPH GALLONS PER HOUR GPM GALLONS PER MINUTE GPS GALLONS PER SECOND GR GRATING GRTG GALVANIZED STEEL GSP GALVANIZED STEEL PIPE GSR GROUND STORAGE RESERVOIR GST GROUT GT GROUT GV GATE VALVE	H H HOSE BIBB HD HEAVY-DUTY HDPE HIGH-DENSITY POLYETHYLENE HDR HYDRAULIC HFA HYDROFLUOSILIC ACID HGR HANGER HGT HEIGHT HNDRL HAND RAIL HOA HAND-OFF-AUTO HORZ HORIZONTAL HORSE HORSEPOWER HPA HIGH PRESSURE AIR HR HOUR HVAC HEATING, VENTILATION, AND AIR CONDITIONING HML HIGH WATER LEVEL HMW HIGHWAY HZ HERTZ	I I INSIDE DIAMETER IN INCH(ES) INF INFLUENT INT INTERSECTION INTR INTERIOR INVT INVERT IP IRON PIPE IPS INTERNATIONAL PIPE STANDARD IR INTERNAL RECYCLE IW IRRIGATION WATER	J J JOINT JB JUNCTION BOX JT JOINT	K K KIP (1,000 LB) KPL KICK PLATE KV KILOVOLT KVA KILOVOLT-AMPERE KW KILOWATT KWH KILOWATT-HOUR	L L LEFT LAB LABORATORY LAM LAMINATE OR LAMINATION LATL LATERAL LAV LAVATORY	M M METER MAINT MAINTAIN OR MAINTENANCE MAN MANUAL(LY) MAS MASONRY MATL MATERIAL MAX MAXIMUM MCC MOTOR CONTROL CENTER ME MITERED END MECH MECHANICAL MEG MATCH EXISTING GRADE MFR MANUFACTURE(R) MG MILLION GALLONS MGD MILLION GALLONS PER DAY MH MANHOLE MI MILE(S) MIN MINIMUM, MINUTE(S) MISC MISCELLANEOUS MJ MECHANICAL JOINT ML MIXED LIQUOR MO MASONRY OPENING MON MONUMENT MPH MILES PER HOUR MPT MALE PIPE THREAD MS MOTOR STARTER MSP MOTOR STARTER PANEL MTD MOUNTED MV MOTORIZED VALVE MW MANWAY MWL MEAN WATER LEVEL MWP MAXIMUM WORKING PRESSURE	N N NORTH NOCI SODIUM HYPOCHLORITE NE NORTHWEST NIC NOT IN CONTRACT NO NUMBER NOM NOMINAL NPT NATIONAL PIPE THREAD NPT NATIONAL PIPE TAPER (THREAD) NPW NON-POTABLE WATER NRS NON-RISING SYSTEM NTS NOT TO SCALE NW NORTHWEST NA NOT APPLICABLE	O O OXYGEN OC ON CENTER OD OUTSIDE DIAMETER ODP OPEN DRIP PROOF OF OUTSIDE FACE OH OVER HEAD OHW OVER HEAD WIRE OPP OPPOSITE OPT OPTIONAL OR OFFICIAL RECORDS OSY OUTSIDE SCREW AND YOKE O&M OPERATION AND MAINTENANCE	P PA PROCESS AIR PC POINT OF CURVE PCM PERMANENT CONTROL MONUMENT PE PLAIN END PG PRESSURE GAGE PI POINT OF INTERSECTION PL PLATE PL PROPERTY LINE PNV PINCH VALVE POB POINT OF BEGINNING POJ PUSH-ON JOINT POL POLYMER PPV POWER POLE PPD POUNDS PER DAY PPM PARTS PER MILLION PREFAB PREFABRICATED PRESS PRESSURE PRV PRESSURE REDUCING VALVE PRW PROCESS WATER PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PSIA POUNDS PER SQUARE INCH ABSOLUTE PSIS POUNDS PER SQUARE INCH GAGE PT POINT OF TANGENCY PV PLUG VALVE PVC POLYVINYL CHLORIDE PVMT POTABLE WATER PW POWER	Q Q FLOW QTY QUANTITY	R R RADIUS RAD RETURN ACTIVATED SLUDGE RAS REINFORCED CONCRETE RCB REINFORCED CONCRETE BOX RCP REINFORCED CONCRETE PIPE RCPA REINFORCED CONCRETE PIPE ARCH RD ROAD RDOR REDUCER REBAR REINFORCING STEEL REF REFERENCE REINF REINFORCE(D)(ING)(MENT) REM REMOVE(ABLE) REQ'D REQUIRED RF RAISED FACE RJ RESTRAINED JOINT RM ROOM RBPB REDUCED PRESSURE BACKFLOW PREVENTER RPM REVOLUTIONS PER MINUTE	S S SOUTH S SAMPLE LINE SAN SANITARY SCHED SCHEDULE SD STORM DRAIN SE SOUTHEAST SECT SECTION SEFF SECONDARY EFFLUENT SF SQUARE FOOT OR FEET SHT SHEET(ED)(ING) SIG SIGNAL SIM SIMILAR SL SLUDGE SLEEVE SLEEVE SM SHEET METAL SOLN SOLUTION SOL PIPE SPACE(ING) SPEC SPECIFICATION SPRT SUPPORT SQ SQUARE SS SANITARY SEWER SSE SUBSTANDARD EFFLUENT ST STAINLESS STEEL ST STREET STA STATION STD STANDARD MSP MOTOR STARTER PANEL STL STEEL STR STRAIGHT STRUCT STRUCTURAL SURF SURFACE SV SOLENOID VALVE SERVICE SERVICE WATER SW SOUTHWEST SWD SIDEWATER DEPTH SWISH SURFACE WASH SYM SYMBOL SYMM SYMMETRICAL SAW SIDEWALK	T T TANGENT TB TOP OF BEAM TBM TEMPORARY BENCH MARK TB-xx TEST BORING-xx (e.g. TB-1) TD TRENCH DRAIN TDH TOTAL DYNAMIC HEAD TE TOTALLY ENCLOSED TEFC TOTALLY ENCLOSED FAN COOLED TEL TELEPHONE TENV TOTALLY ENCLOSED NON-VENTILATED THD THREAD(ED) THK THICK(NESS) TLM TELEMETRY TOP TOP OF BANK TOB TOP OF CURB TOS TOE OF SLOPE TOT TOTAL TP TELEPHONE POLE TS THICKENED SLUDGE TV TELEVISION TYP TYPICAL T&B TOP AND BOTTOM	U U UNDERDRAIN UG UNDERGROUND ULT ULTIMATE UN UNION UNLESS OTHERWISE NOTED UGM UNDERGROUND ELECTRIC UTC UNDERGROUND TELEPHONE CABLE UTIL UTILITY	V V VOLT(S) VAC VACUUM VAR VARIES VC VERTICAL CURVE VCP VITRIFIED CLAY PIPE VEL VELOCITY VERT VERTICAL VFD VARIABLE FREQUENCY DRIVE VOL VOLUME	W W WATT, WEST WAS WASTE ACTIVATED SLUDGE WCO WALL CLEAN OUT WF WIDE FLANGE WH WALL HYDRANT WL WATER LINE WM WATER MAIN WP POINT WPR WORKING PRESSURE WS WATER SURFACE WSP WELDED STEEL PIPE WT WEIGHT WTP WATER TREATMENT PLANT WW WASH WATER WWF WELDED WIRE FABRIC WWM WELDED WIRE MESH WWTP WASTEWATER TREATMENT PLANT W WITH WO WITHOUT	X XFER TRANSFER Y YARD(S) YD YARD HYDRANT YR YEAR(S) YR
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PIPING LEGEND

FITTING/ APPURTENANCE	FLANGED				MECHANICAL JOINT				GROOVE JOINT				SOLVENT WELD			
	SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE		SINGLE-LINE		DOUBLE-LINE	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
BEND																
TEE																
WYE																
REDUCER																
CAP/ BLIND FLANGE					N/A	N/A	N/A	N/A								
PLUG	N/A	N/A	N/A	N/A					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BUTTERFLY VALVE																
BALL VALVE					N/A	N/A	N/A	N/A								
CHECK VALVE					N/A	N/A	N/A	N/A								
GATE VALVE																
PLUG VALVE																
AUTOMATIC CONTROL VALVE					N/A	N/A	N/A	N/A								
PINCH VALVE					N/A	N/A	N/A	N/A								

CIVIL LEGEND

	RAW WATER MAIN		SPOT ELEVATION		TREE - EVERGREEN		VEGETATION
	RIGHT OF WAY LINE (R-O-W)		TOP BOTTOM		TREE - PALM TREE		
	LIMITS OF CONSTRUCTION		EASEMENT		TREE - DECIDUOUS		
	PROPOSED CONTOUR MAJOR		PROPOSED CONTOUR MINOR (LABEL OPTIONAL)		LIGHT POLE		WATER VALVE
	WATER		POWER POLE		WATER WELL		WATER METER
	STORM SEWER		UTILITY POLE		MANHOLE		HYDRANT
	SANITARY SEWER		SEWER MANHOLE		STORM MANHOLE		STORM CULVERT END
	SANITARY SEWER (FORCE MAIN)		SEWER VALVE		FLARED END - RCP		MONITORING WELL
	GUARD RAIL		SEWER CLEANOUT		MONUMENT		
	STEEL FENCE						
	WOOD FENCE						

REFERENCE SYMBOLS

	DENOTES DRAWING NO WHERE DETAIL IS LOCATED		DENOTES DETAIL NUMBER IDENTIFICATION
	DENOTES DRAWING NO WHERE DETAIL IS LOCATED		DENOTES DETAIL NUMBER IDENTIFICATION

HATCHING LEGEND

	ASPHALT OR CONCRETE SURFACE (SIDEWALK OR ROADWAY)		PRECAST CONCRETE
	ROADWAY/SIDEWALK OPEN CUT RESURFACING		GROUT
	SODDED OR SEEDED AND MULCHED AREA OR EXISTING WETLAND		TO BE DEMOLISHED
	EARTH		STEEL
	EXISTING PIPES, STRUCTURES, EQUIPMENT TO BE REMOVED		WETLAND
	CAST-IN-PLACE CONCRETE		GRATING

MECHANICAL/DRAFTING LEGEND

	VISIBLE LINE		HIDDEN LINE
	CENTER LINE		PHANTOM LINE
	MATCHLINE		BREAK LINE
	DIMENSION LINES AND LEADERS		NOTE

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Collier County

MARK	DATE	DESCRIPTION

LEGEND AND ABBREVIATIONS

COLLIER COUNTY PUBLIC UTILITIES
GOODLAND PUMP STATION IMPROVEMENTS

PROJ: 200-08488-22002
DESN:
DRWN:
CHKD:

G-002

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Bar Measures 1 inch, otherwise drawing not to scale

