COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS

10600 CHEVROLET WAY, SUITE 102
ESTERO, FL 33928
PH: (239) 390-1467
www.tetratech.com

TETRA TECH

PROJECT LOCATION:
841 7TH ST SW
NAPLES, FL 34117

CLIENT INFORMATION:
COLLIER COUNTY PUBLIC UTILITIES
3339 TAMIAMI TRAIL EAST, SUITE 303
NAPLES, FL 34112

Tt PROJECT No.:
200-08486-24001

CLIENT PROJECT No.:
70085.30.1

PROJECT DESCRIPTION / NOTES:

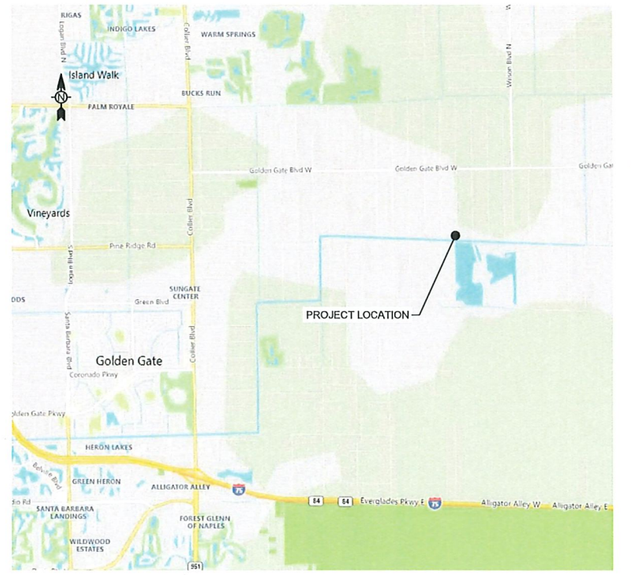
1. FLOW METER REPLACEMENT
2. OFFICE SPACE AND RESTROOM UPGRADES
3. PRE-ENGINEERED METAL BUILDING (PEMB) FOR PARKING CANOPY
4. POTABLE WELL AND REVERSE OSMOSIS (RO) SYSTEM
5. WASTEWATER SUBSURFACE DISPOSAL SYSTEM INSPECTION AND CLEANING.

ISSUED:

04/11/25 - 100% SUBMITTAL

PAUL R. CLINGHAN
LICENSE
No. 73670
STATE OF FLORIDA
PROFESSIONAL ENGINEER

VICINITY MAP:



Collier County

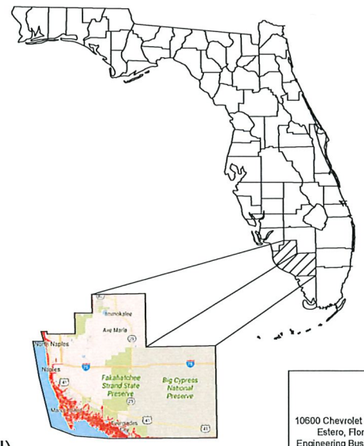
PREPARED FOR

COLLIER COUNTY PUBLIC UTILITIES

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

BOARD OF COUNTY COMMISSIONERS

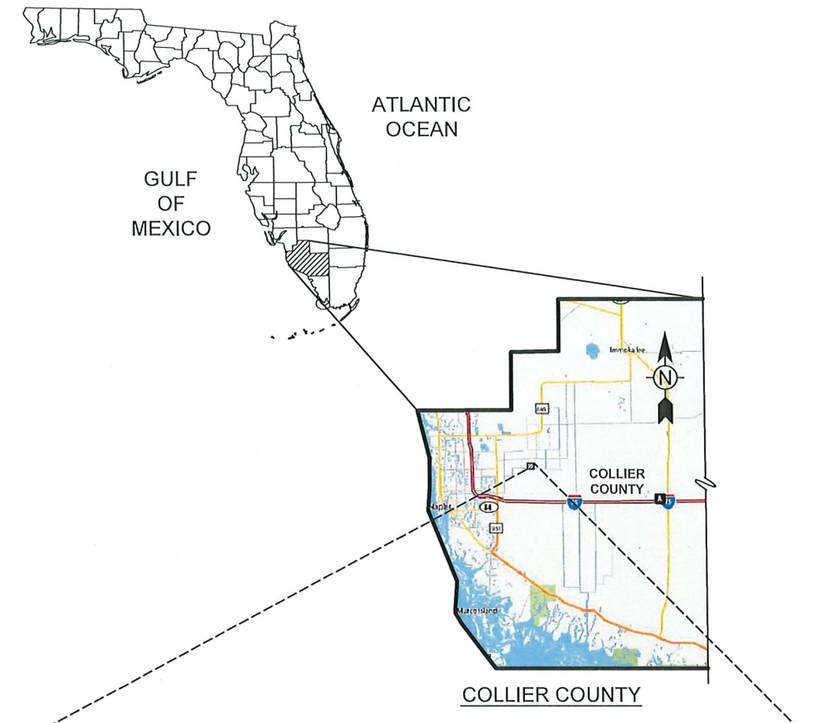
RICK LOCASTRO	DISTRICT 1
CHRIS HALL	DISTRICT 2
BURT L. SAUNDERS	DISTRICT 3 (CHAIRMAN)
DAN KOWAL	DISTRICT 4 (VICE CHAIRMAN)
WILLIAM L. MCDANIEL, JR.	DISTRICT 5



COLLIER COUNTY

10600 Chevrolet Way, Suite 102
Estero, Florida 33928
Engineering Business No. 2429

DATE _____



RAW WATER BOOSTER PUMP STATION SITE

SCALE: N.T.S.

GENERAL NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AS LISTED BELOW AND FIELD VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES AT LEAST 48 HOURS IN ADVANCE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY THEIR OPERATIONS.

   - COLLIER COUNTY PUBLIC UTILITIES (WATER AND WASTEWATER DISTRICT): (239) 530-5335
   - SUNSHINE STATE ONE CALL: 811 WWW.CALLSUNSHINE.COM
   - IN ADDITION, PRIOR TO STARTING WORK, CONTRACTOR SHALL NOTIFY LOCAL PUBLIC SERVICE AGENCIES INCLUDING SHERIFF AND FIRE DEPARTMENTS.

2. EXISTING UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS AND ARE BASED ON RECORD DRAWINGS AND HAVE NOT BEEN FIELD VERIFIED. THE EXISTING UTILITIES SHOWN AND LISTED ABOVE SHALL NOT BE CONSTRUED AS BEING ALL INCLUSIVE OF UTILITIES IN THE AREA. ANY INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY.

3. ALL DISTURBED AREAS SHALL BE RE-SODDED BY THE CONTRACTOR.

4. THE CONTRACTOR SHALL NOT PLACE ANY FILL MATERIALS WITHIN A WETTED DITCH OR WETLAND AREA WHEN WORKING ADJACENT TO EITHER TYPE OF AREA.

5. WORK HOURS FOR THIS PROJECT SHALL BE AS FOLLOWS:
   M-F: 7 AM - 7 PM
   SATURDAY: 8 AM - 5 PM, REQUIRES 48 HOUR WRITTEN NOTICE AND WRITTEN APPROVAL FROM DISTRIBUTION MANAGER
   SUNDAY: NO WORK ALLOWED.

6. CONTRACTOR SHALL SUPPLY THEIR OWN RESTROOM FACILITIES FOR THE DURATION OF THE PROJECT.

7. PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIARIZED WITH THE OVERALL SITE CONDITION AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF ROCK AND EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFFSITE, AND MATERIALS TO BE DISPOSED OF OFFSITE ALL OF WHICH WILL AFFECT THEIR PRICING. ANY DELAY, INCONVENIENCE OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL AND THE CONTRACTOR MAY HAVE TO BRING IN MATERIALS AT NO EXTRA COST FROM OFFSITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.

8. ALL PROPOSED IMPROVEMENTS SHALL BE PERFORMED PER COLLIER COUNTY STANDARDS, WHICH ARE AVAILABLE ON THE COUNTY'S WEBSITE: WWW.COLLIERGOV.NET

9. THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, SHALL IMMEDIATELY REPAIR ALL DAMAGES TO COUNTY'S MAINS AND FACILITIES. IF THE REPAIR IS NOT MADE IN A TIMELY MANNER, AS DETERMINED BY COUNTY, COUNTY MAY PERFORM REQUIRED REPAIRS AND CLEANUP. THE CONTRACTOR WILL BE CHARGED FOR ALL EXPENSES ASSOCIATED WITH THE REPAIR.

10. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES EXPOSED DURING CONSTRUCTION SHALL BE ACCURATELY RECORDED ON THE CONSTRUCTION DRAWINGS. THE OWNER SHALL BE IMMEDIATELY NOTIFIED OF ANY CONFLICTS WITH PROPOSED CONSTRUCTION.

11. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL TURBIDITY INCLUDING, BUT NOT LIMITED TO, THE INSTALLATION OF TURBIDITY BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF INFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY, EXISTS DUE TO THE PROPOSED WORK. TURBIDITY BARRIERS MUST BE MAINTAINED AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED AND DISTURBED SOIL AREAS ARE STABILIZED. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVING THE BARRIERS. AT NO TIME SHALL THERE BE ANY OFF-SITE DISCHARGE WHICH VIOLATES THE WATER QUALITY STANDARDS IN CHAPTERS 62-302 AND 62-4, FLORIDA ADMINISTRATIVE CODE.

12. THE CONTRACTOR SHALL MAINTAIN NORMAL TRANSPORT VEHICLE ACCESS TO FACILITIES AT ALL TIMES.

13. IN THE EVENT THAT THE POTABLE WATER SYSTEM IS CONTAMINATED (I.E. WATER DOES NOT MEET FEDERAL AND STATE REQUIREMENTS) DUE TO THE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE, UNDER THE DIRECTION OF THE OWNER, OR THE STATE AND LOCAL REGULATORY AGENCY FOR CORRECTING ANY SUCH CONTAMINATION PROBLEM INCLUDING DISINFECTION, TESTING AND OTHER CORRECTIVE ACTION.

DRAWING INDEX

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ESTERO, FL 33928
PH: (239) 390-1467

100% SUBMITTAL

PAUL R. CHINCHAR LICENSE No. 73570 STATE OF FLORIDA PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS

LOCATION MAP, GENERAL NOTES, AND DRAWING INDEX

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

G-001

Bar Measures 1 inch, otherwise drawing not to scale

4/11/2025 10:05:28 AM - O:\PROJECTS\ORLANDO\IER\08486200-08486-24001\CAD\SHEETFILES\G-001 LOCATION MAP-GENERAL NOTES-INDEX.DWG - MARQUEZ, GERMAIN

LIST OF STANDARD ABBREVIATIONS

A	
AAP	ALARM ANNUNCIATOR PANEL
AARV	AUTOMATIC AIR RELEASE VALVE
AAV	AUTOMATIC AIR VENT
AB	ANCHOR BOLT
ABAN	ABANDON(ED)
ABRSV	ABRASIVE
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE
AC	ALTERNATING CURRENT
ACCMP	ASPHALT-COATED CORRUGATED METAL PIPE
ACP	ASBESTOS CEMENT 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
A/C	AIR CONDITIONING
A/VV	AIR/VACUUM AIR VALVE
B	
BAF	BAFFLE
BCV	BALL CHECK VALVE
BF	BLIND FLANGE
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BI	BLACK IRON
BITUM	BITUMINOUS OR BITUMASTIC
B/L	BASELINE
BLDG	BUILDING
BLK	BLOCK
BM	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
C/L	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
C/C	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
DV	DIAPHRAGM VALVE
DW	DRIVEWAY
DWG	DRAWING
DWV	DRAIN, WASTE, AND VENT
E	
E	EAST
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EFF	EFFLUENT
E/L	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	EQUIPMENT
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	
FAB	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)
FLL	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 WIRED PANEL
F/F	FACE TO FACE
G	
GA	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	GRADE
GRTG	GRATING
GS	GALVANIZED STEEL
GSP	GALVANIZED STEEL PIPE
GSR	GROUND STORAGE RESERVOIR
GST	GROUND STORAGE TANK
GT	GROUT
GV	GATE VALVE
H	
HB	HOSE BIBB
HD	HEAVY-DUTY
HDPE	HIGH-DENSITY POLYETHYLENE
HDR	HYDRAULIC
HFA	HYDROFLUOSILICIC ACID
HGR	HANGER
HGT	HEIGHT
HNDRL	HAND RAIL
HOA	HAND-OFF-AUTO
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPA	HIGH PRESSURE AIR
HR	HOUR
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HZ	HERTZ
I	
ID	INSIDE DIAMETER
IN	INCH(ES)
INF	INFLUENT
INT	INTERSECTION
INTR	INTERIOR
INV	INVERT
IP	IRON PIPE
IPS	INTERNATIONAL PIPE STANDARD
IR	INTERNAL RECYCLE
IW	IRRIGATION WATER
J	
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
LEN	LENGTH
LB	POUND(S)
LF	LINEAR FEET
LP	LIGHT POLE
LS	LIME SLURRY
LSS	LIME STABILIZED SLUDGE
LVR	LOUVER
LWL	LOW WATER LEVEL
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	MANUFACTURER(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
NaOCl	SODIUM HYPOCHLORITE
NE	NORTHEAST
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NPF	NATIONAL PIPE THREAD
NPT	NATIONAL PIPE TAPER (THREAD)
NPW	NON-POTABLE WATER
NRS	NON-RISING SYSTEM
NTS	NOT TO SCALE
NW	NORTHWEST
N/A	NOT APPLICABLE
O	
O2	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
P/L	PROPERTY LINE
PNV	PINCH VALVE
POB	POINT OF BEGINNING
POJ	PUSH-ON JOINT
POL	POLYMER
PP	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
PSIG	POUNDS PER SQUARE INCH GAGE
PT	POINT OF TANGENCY
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PW	POTABLE WATER
PWR	POWER
Q	
Q	FLOW
QTY	QUANTITY
R	
RAD	RADIUS
RAS	RETURN ACTIVATED SLUDGE
RC	REINFORCED CONCRETE
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RD	ROAD
RDCR	REDUCER
REBAR	REINFORCING STEEL
REF	REFERENCE
REINF	REINFORCED(ING)(MENT)
REM	REMOVE(ABLE)
REQ'D	REQUIRED
RF	RAISED FACE
RJ	RESTRAINED JOINT
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RT	RIGHT
RVT	RIVETED
RW	RAW WATER
RWW	RAW WASTEWATER
R/W	RIGHT-OF-WAY
S	
S	SOUTH
SA	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
SLV	SLEEVE
SM	SHEET METAL
SOLN	SOLUTION
SP	SOIL PIPE, SPACE(ING)
SPEC	SPECIFICATION
SPRT	SUPPORT
SQ	SQUARE
SS	SANITARY SEWER
SSE	SUBSTANDARD EFFLUENT
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STK	STAKE
STL	STEEL
STR	STRAIGHT
STRUCT	STRUCTURAL
SURF	SURFACE
SV	SOLENOID VALVE
SVCE	SERVICE
SVW	SERVICE WATER
SW	SOUTHWEST
SWD	SIDEWATER DEPTH
SWSH	SURFACE WASH
SYM	SYMBOL
SYMM	SYMMETRICAL
S/W	SIDEWALK
T	
TAN	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
TOB	TOP OF BANK
TOC	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	
UD	UNDERDRAIN
UG	UNDERGROUND
ULT	ULTIMATE
UN	UNION
UON	UNLESS OTHERWISE NOTED
UGE	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	WATER PROOF(ING), WORKING 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
W/O	WITHOUT
X	
XFER	TRANSFER
Y	
YD	YARD(S)
YH	YARD HYDRANT
YR	YEAR(S) YR

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	N/A	N/A	N/A	N/A				

CIVIL LEGEND

- R/W — RAW WATER MAIN
- RIGHT OF WAY LINE (R-O-W)
- LIMITS OF CONTRUCTION
- EASEMENT
- 130 — PROPOSED CONTOUR MAJOR
- 129 — PROPOSED CONTOUR MINOR (LABEL OPTIONAL)
- WATER
- STORM SEWER
- SANITARY SEWER
- SANITARY SEWER (FORCE MAIN)
- GUARD RAIL
- STEEL FENCE
- WOOD FENCE

- ×XXXX.XX SPOT ELEVATION
- TOP / BOTTOM EMBANKMENT
- LIGHT POLE
- POWER POLE
- UTILITY POLE
- MH-?? MANHOLE
- SS SEWER MANHOLE
- SV SEWER VALVE
- CO SEWER CLEANOUT
- MW-X MONITORING WELL
- TREE - EVERGREEN
- TREE - PALM TREE
- TREE - DECIDUOUS
- WV WATER VALVE
- WELL WATER WELL
- WM WATER METER
- FH HYDRANT
- SD STORM MANHOLE
- STORM CULVERT END
- FLARED END - RCP
- MONUMENT
- VEGETATION

REFERENCE SYMBOLS

X — DENOTES DETAIL NUMBER IDENTIFICATION
X-XX — DENOTES DRAWING NO WHERE DETAIL IS LOCATED
DETAIL REFERENCE

X — DENOTES DETAIL NUMBER IDENTIFICATION
DETAIL
SCALE:
DENOTES DRAWING NO WHERE DETAIL IS LOCATED
DETAIL TITLE

HATCHING LEGEND

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

MECHANICAL/DRAFTING LEGEND

	EXISTING	PROPOSED
VISIBLE LINE		
HIDDEN LINE		
CENTER LINE		
PHANTOM LINE		
MATCHLINE		
BREAK LINE		
DIMENSION LINES AND LEADERS	1 3/32"	NOTE

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PH: (239) 390-1467

100% SUBMITTAL

PAUL R. CLINTON
LICENSE
No. 73870
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS
LEGENDS AND ABBREVIATIONS

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

G-002

Bar Measures 1 inch, otherwise drawing not to scale

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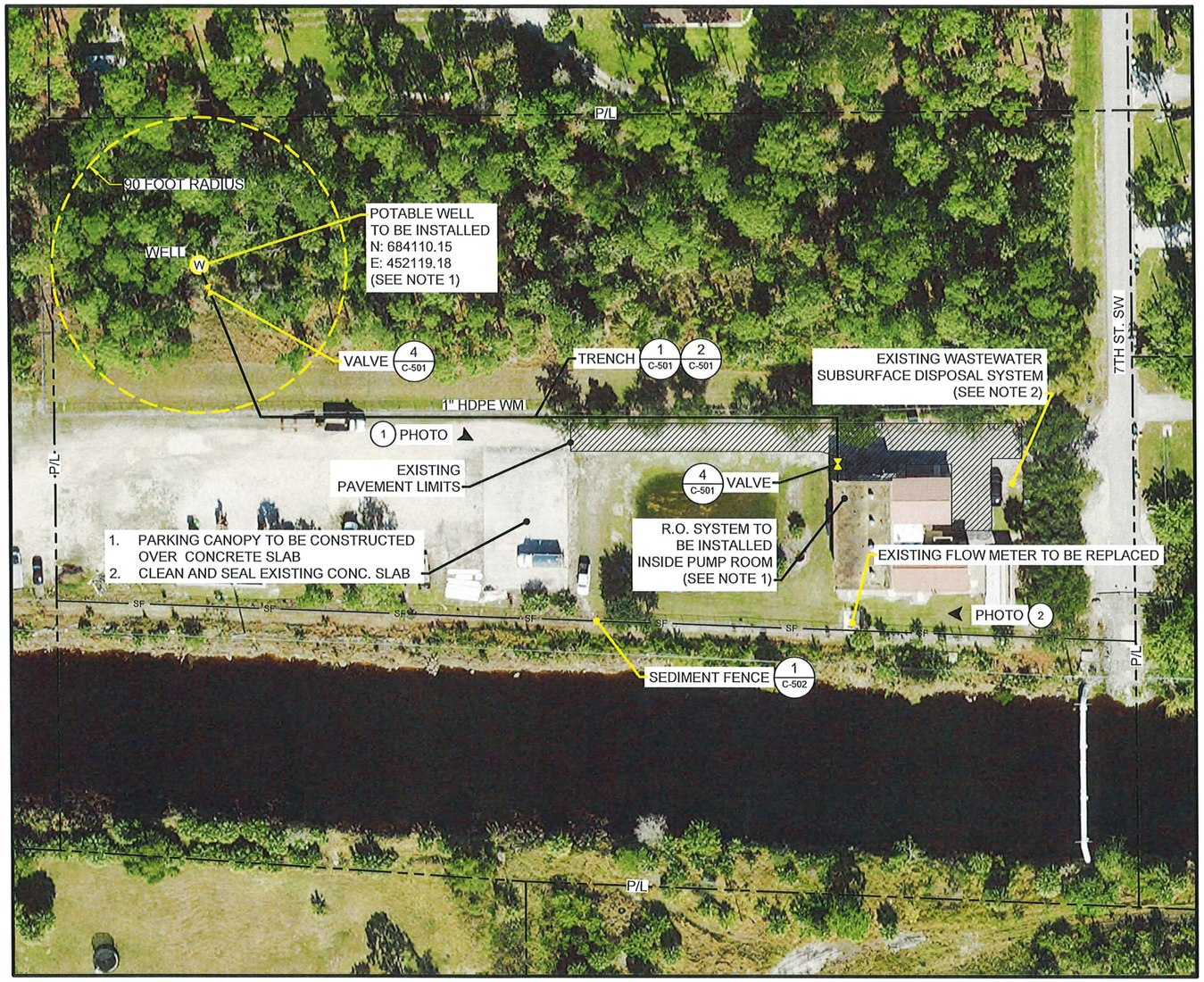
NOTES

1. **POTABLE WATER WELL AND REVERSE OSMOSIS (RO) SYSTEM** - THE POTABLE WATER SYSTEM WILL BE USED FOR THE UPGRADE TO THE EXISTING RESTROOM, WHICH INCLUDES AN EXISTING TOILET, EXISTING SINK, AND A NEW SHOWER. THE CONTRACTOR, THROUGH A QUALIFIED POTABLE WATER WELL DRILLER LICENSED IN THE STATE OF FLORIDA, SHALL PROVIDE A TURNKEY POTABLE WATER SYSTEM, INCLUDING BUT NOT LIMITED TO:
   - A. THE FINAL LOCATION AND INSTALLATION OF A 4-INCH WELL WITH A 1 HP - 20 GPM PUMP.
   - B. 1-INCH HDPE WATER MAIN AND VALVES.
   - C. BACK FLOW PREVENTER.
   - D. HYDRO-PNEUMATIC TANK.
   - E. REVERSE OSMOSIS (RO) WATER TREATMENT SYSTEM.
   - F. CONNECTION TO THE BUILDING INTERIOR POTABLE WATER SYSTEM.
   - G. DISINFECTION.
   - H. WATER TESTING.
   - I. ELECTRICAL FROM THE BUILDING TO THE WELL.
   - J. DRILLING SLURRY CLEANUP.
   - K. START UP AND TESTING OF THE SYSTEM
   - L. 3 YEAR WARRANTY ON ALL PARTS AND LABOR.
   - M. ALL COLLIER COUNTY AND STATE PERMITS.

2. **WASTEWATER SUBSURFACE DISPOSAL SYSTEM CLEANING AND INSPECTION** - THE CONTRACTOR SHALL LOCATE, CLEAN, AND INSPECT THE SEPTIC TANK, DISTRIBUTION BOX, AND LEACH FIELD PIPING, INCLUDING BUT NOT LIMITED TO:
   - A. LOCATION, CLEANING, AND INSPECTION OF ALL COMPONENTS.
   - B. PUMPING OUT AND CLEANING THE Sseptic TANK AND DISTRIBUTION BOX.
   - C. INSPECTION REPORT TO DETERMINE THE SATISFACTORY OPERATION OF THE WASTEWATER SUBSURFACE DISPOSAL SYSTEM.
   - D. ANY REQUIRED REPAIRS TO THE SYSTEM ARE NOT INCLUDED IN THE SCOPE OF WORK AND WILL BE CONSIDERED ADDITIONAL WORK AS APPROVED BY THE COUNTY.

1 PHOTO
SCALE: N.T.S.

2 PHOTO
SCALE: N.T.S.



GENERAL SITE PLAN
SCALE: 1" = 40'

N

0 20' 40' 80'
SCALE: 1" = 40'

Bar Measures 1 inch, otherwise drawing not to scale

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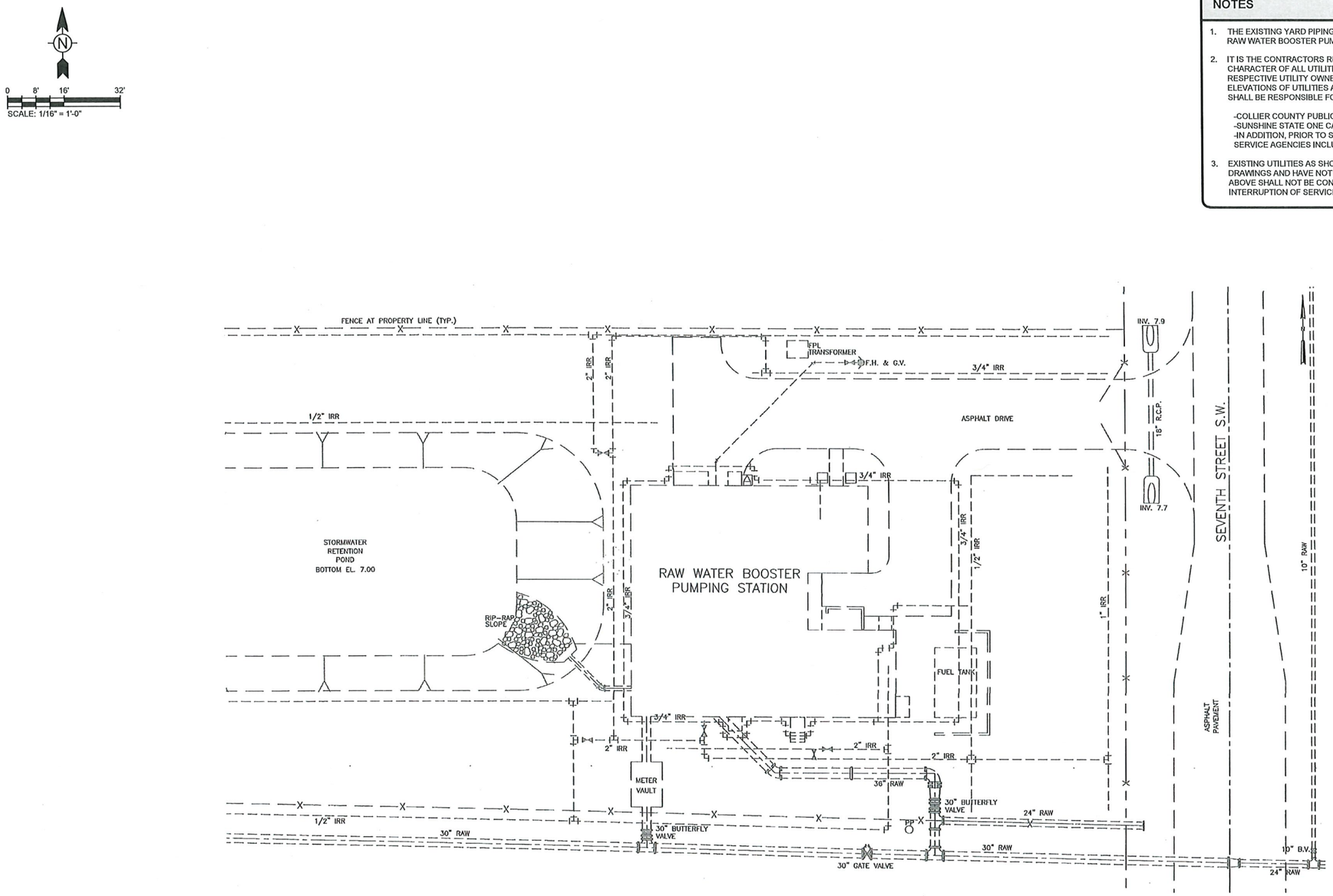
COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS
GENERAL SITE PLAN

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

C-101

4/11/2025 10:05:50 AM - O:\PROJECTS\ORLANDO\ER\08486\200-08486-24001\CAD\SHEETFILES\C-101 GENERAL SITE PLAN.DWG - MARQUEZ, GERMAIN



EXISTING YARD PIPING PLAN

SCALE: 1/16" = 1'-0"

NOTES

1. THE EXISTING YARD PIPING PLAN IS TAKEN FROM THE HOLE MONTES - PUMP REPLACEMENTS - RAW WATER BOOSTER PUMP STATION SITE PLAN DATED JULY 30, 2014.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, DEPTH AND CHARACTER OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY RESPECTIVE UTILITY OWNERS AS LISTED BELOW AND FIELD VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES AT LEAST 48 HOURS IN ADVANCE OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE CAUSED BY THEIR OPERATIONS.

   -COLLIER COUNTY PUBLIC UTILITIES (WATER AND WASTEWATER DISTRICT): (239) 530-5335
   -SUNSHINE STATE ONE CALL: 811 WWW.CALLSUNSHINE.COM
   -IN ADDITION, PRIOR TO STARTING WORK, CONTRACTOR SHALL NOTIFY LOCAL PUBLIC SERVICE AGENCIES INCLUDING SHERIFF AND FIRE DEPARTMENTS.
3. EXISTING UTILITIES AS SHOWN ARE APPROXIMATE LOCATIONS AND ARE BASED ON RECORD DRAWINGS AND HAVE NOT BEEN FIELD VERIFIED. THE EXISTING UTILITIES SHOWN AND LISTED ABOVE SHALL NOT BE CONSTRUED AS BEING ALL INCLUSIVE OF UTILITIES IN THE AREA. ANY INTERRUPTION OF SERVICE SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY.

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RALPH L. CLINGMAN LICENSE No. 73670 STATE OF FLORIDA PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS
EXISTING YARD PIPING PLAN

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

C-102

Bar Measures 1 inch, otherwise drawing not to scale

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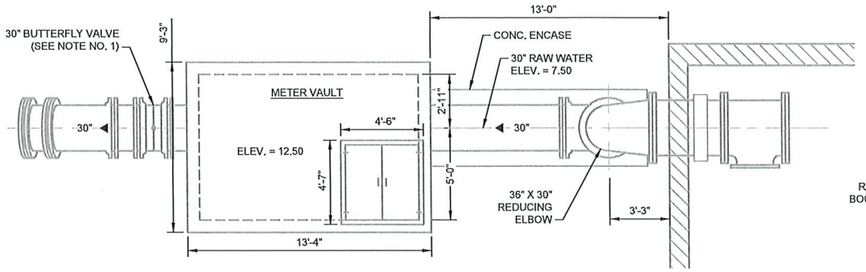
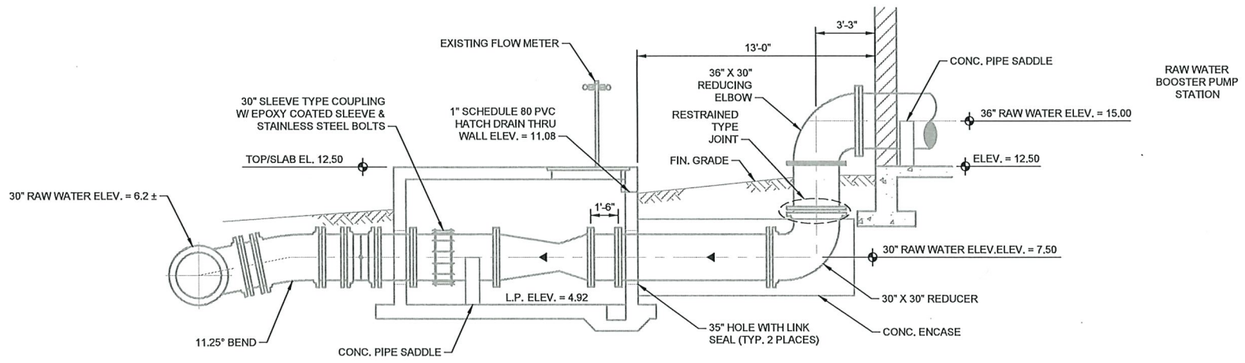
1 PHOTO
SCALE: N.T.S.

2 PHOTO
SCALE: N.T.S.

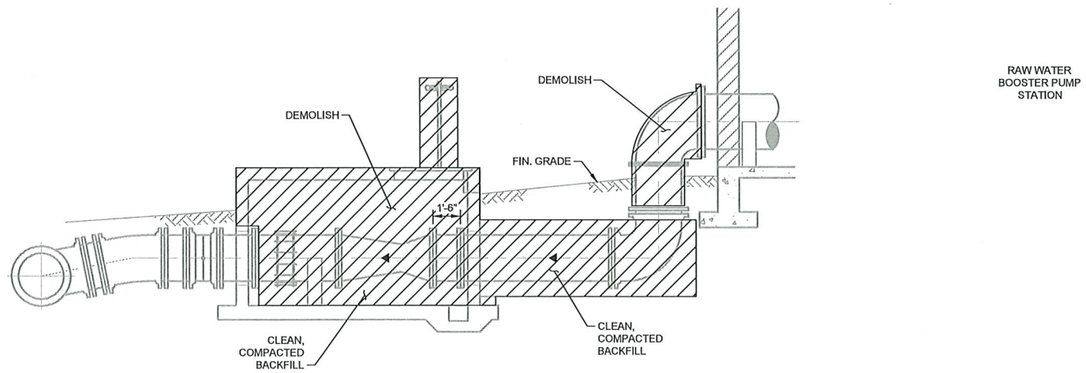


1 PHOTO ▲ ▶ PHOTO 2

EXISTING PLAN
SCALE: 1/4" = 1'-0"



EXISTING SECTION
SCALE: 1/4" = 1'-0"



DEMOLITION SECTION
SCALE: 1/4" = 1'-0"

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PAUL R. CLINEMAN
LICENSE
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

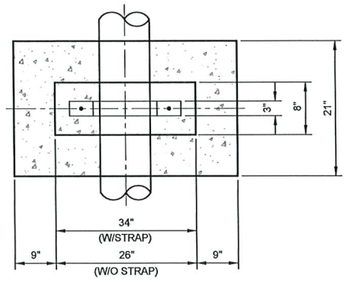
COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION
IMPROVEMENTS

EXISTING FLOW METER PIPING AND DEMOLITION PLAN & SECTION

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

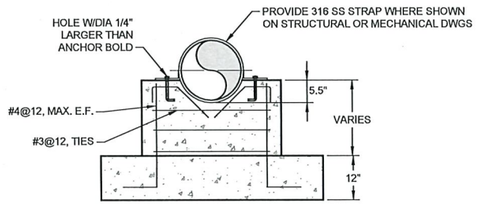
C-103

Bar Measures 1 inch, otherwise drawing not to scale



PLAN

SCALE: 3/4" = 1'-0"



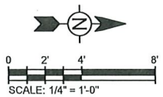
SECTION

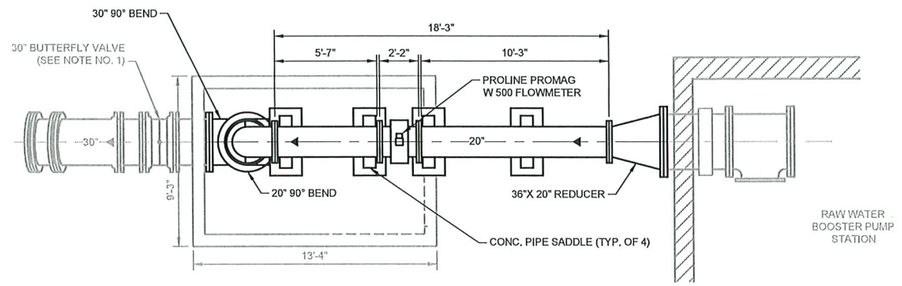
SCALE: 3/4" = 1'-0"

NOMINAL PIPE DIAMETER	MINIMUM CONCRETE PIER DIMENSIONS					STAINLESS STEEL STRAPS			STAINLESS STEEL ANCHOR BOLTS		
	"A1"	"A2"	"B"	"C"	"D"	QUAN.	"E"	THICK	QUAN.	SIZE	MIN. EMBED.
4"	18"	9"	6"	1.5"	8"	1	2"	1/4"	2	1/2"	6"
6"	20"	12"	6"	2"	8"	1	2"	1/4"	2	1/2"	6"
8"	22"	14"	6"	2.5"	8"	1	2"	1/4"	2	1/2"	6"
10"	24"	16"	8"	3"	8"	1	2"	1/4"	2	3/4"	9"
12"	26"	18"	8"	3.5"	8"	1	2"	1/4"	2	3/4"	9"
14"	28"	20"	8"	4"	8"	1	2"	1/4"	2	3/4"	9"
16"	30"	22"	8"	4.5"	8"	1	2"	1/4"	2	3/4"	9"
18"	32"	24"	8"	5"	12"	1	3"	3/8"	2	3/4"	9"
20"	34"	26"	8"	5.5"	12"	1	3"	3/8"	2	3/4"	9"

CONCRETE PIPE SUPPORT DETAIL

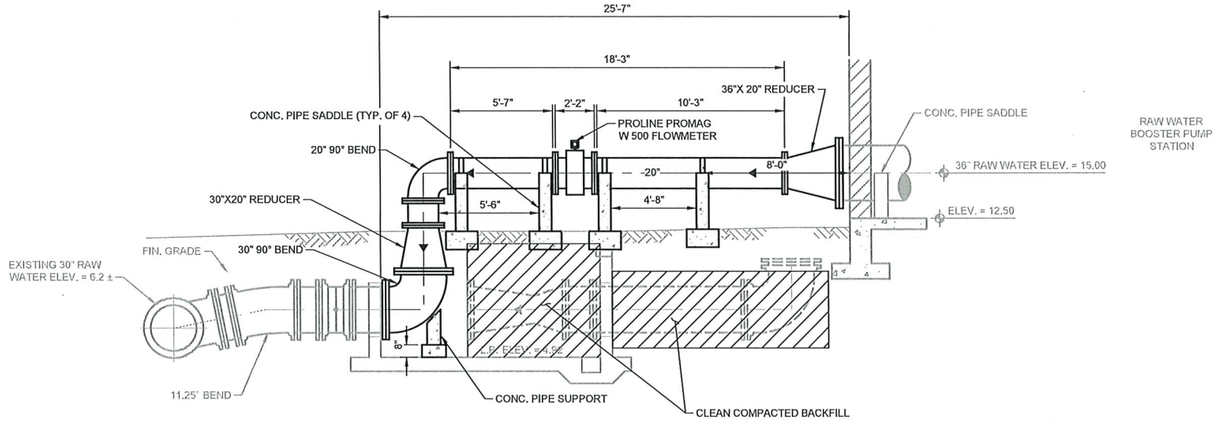
SCALE: N.T.S.





PROPOSED PLAN

SCALE: 1/4" = 1'-0"



PROPOSED SECTION

SCALE: 1/4" = 1'-0"

NOTES:

1. THE RAW WATER BOOSTER PUMP STATION (RWBPS) TIMING FOR SHUTDOWN IS CRITICAL. THE CONTRACTOR SHALL COORDINATE WITH THE RWBPS OPERATORS AS FOLLOWS:
   A. JANUARY THROUGH MAY THE ALLOWABLE TIME IS 8 HOURS FOR A SHUTDOWN OF THE STATION.
   B. JUNE THROUGH SEPTEMBER THE ALLOWABLE TIME IS 24 HOURS FOR A SHUTDOWN OF THE STATION.
   C. OCTOBER THROUGH DECEMBER THE ALLOWABLE TIME IS 12 HOURS FOR A SHUTDOWN OF THE STATION.

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PAUL R. CLINCH LICENSE No. 73670 STATE OF FLORIDA PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

COLLIER COUNTY PUBLIC UTILITIES

RAW WATER BOOSTER PUMP STATION IMPROVEMENTS

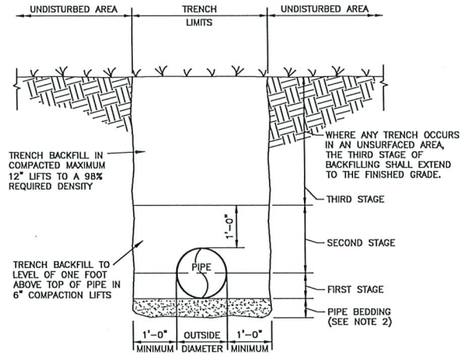
PROPOSED FLOW METER PIPING PLAN & SECTION

PROJ:	200-08486-24001
DESN:	##
DRWN:	##
CHKD:	##

C-104

Bar Measures 1 inch, otherwise drawing not to scale

UNPAVED AREA TRENCH BACKFILL



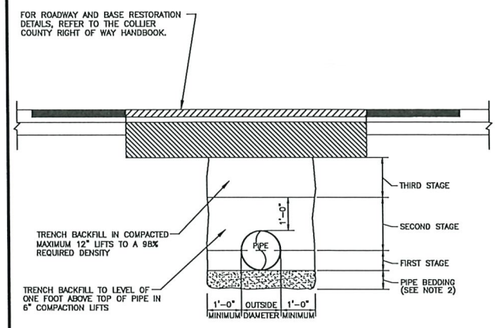
NOTES:

1. BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. BACKFILL MATERIAL SHALL CONSIST OF EARTH, LOAM, SANDY CLAY, GRAVEL, CRUSHED LIMESTONE, OR OTHER APPROVED MATERIAL. REFER TO TECHNICAL SPECIFICATIONS FOR DETAIL REQUIREMENTS.
2. IF TRENCH BOTTOM CONTAINS ROCK, THEN A MINIMUM OF A 6" PIPE BEDDING SHALL BE USED.

1 DETAIL
SCALE: NTS

Collier County

PAVED AREA TRENCH RESTORATION



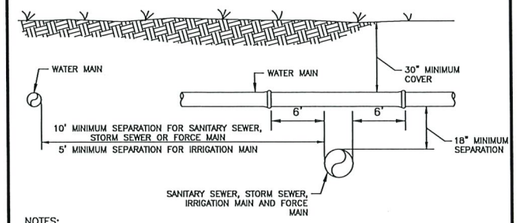
NOTES:

1. BACKFILL SHALL BE OF SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. BACKFILL MATERIAL SHALL CONSIST OF EARTH, LOAM, SANDY CLAY, GRAVEL, CRUSHED LIMESTONE, OR OTHER APPROVED MATERIAL. REFER TO TECHNICAL SPECIFICATIONS FOR DETAIL REQUIREMENTS.
2. IF TRENCH BOTTOM CONTAINS ROCK, THEN A MINIMUM OF A 6" PIPE BEDDING SHALL BE USED.

2 DETAIL
SCALE: NTS

Collier County

PIPE SEPARATION



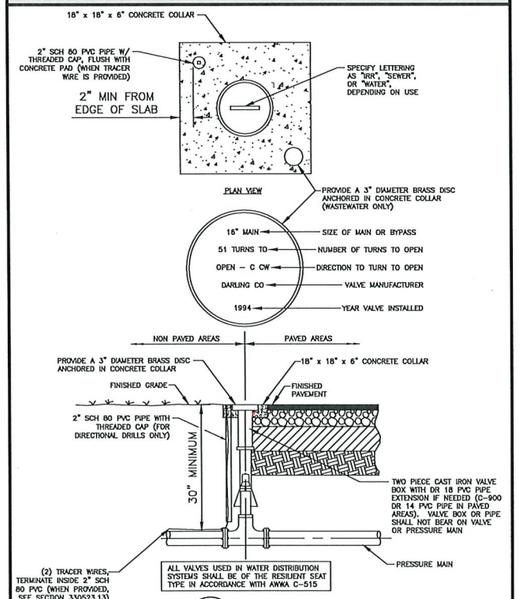
NOTES:

1. WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER, NON-POTABLE IRRIGATION MAINS, AND FORCE MAINS BY A MINIMUM CLEAR VERTICAL DISTANCE OF 18 INCHES MEASURED BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE. THE 18 INCHES MINIMUM VERTICAL SEPARATION DISTANCE DOES NOT APPLY TO SEPARATIONS OF SEWER LATERALS AND POTABLE WATER MAIN PIPELINE INSTALLATIONS. ALSO, WATER MAINS SHALL BE SEPARATED FROM STORM SEWER, SANITARY SEWER AND FORCE MAINS BY 10 FEET AND FROM IRRIGATION MAINS BY 5 FEET MEASURED HORIZONTALLY BETWEEN OUTSIDE OF PIPES.
2. ALL CROSSINGS WITH VERTICAL CLEARANCE LESS THAN 18 INCHES SHALL REQUIRE SUBMISSION AND APPROVAL OF A DEVIATION. IF A DEVIATION IS SUBMITTED, THE FOLLOWING MINIMUM STIPULATIONS APPLY: THE CROSSING SHALL BE MADE USING A FULL LENGTH OF THICKNESS CLASS 200 (DR14) AWWA C-900 PVC OR CLASS 235 (DR18) AWWA C-905 PVC PIPE CENTERED ON THE CROSSING.
3. 18 INCHES CLEAR DISTANCE SHALL NOT BE REDUCED IN CASES WHERE WATER CROSSES UNDER SEWER LINE.
4. WATER MAINS, SANITARY SEWER, STORM SEWER, AND NON-POTABLE IRRIGATION MAINS SHALL BE IN SEPARATE TRENCHES.
5. WATER MAINS CROSSING ANY TYPE OF SANITARY SEWER, INCLUDING FORCE MAIN, OR STORM SEWER SHALL HAVE THE ONE FULL LENGTH OF WATER MAIN CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THAT THE WATER JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRSSURE-TYPE SANITARY SEWERS, FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610.
6. IF THE VERTICAL SEPARATION BETWEEN GRAVITY SANITARY SEWER AND STORMWATER LINES IS LESS THAN 18 INCHES, THEN 57 STONE SHALL BE UTILIZED BETWEEN THE TWO LINES.
7. SEE SECTION 1- DESIGN CRITERIA FOR ADDITIONAL REQUIREMENTS.

3 DETAIL
SCALE: NTS

Collier County

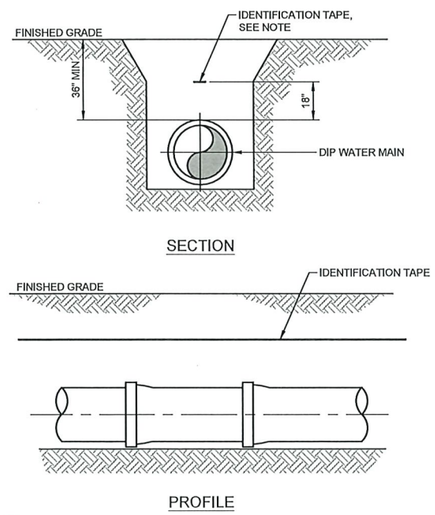
TYPICAL VALVE SETTING



4 DETAIL
SCALE: NTS

Collier County

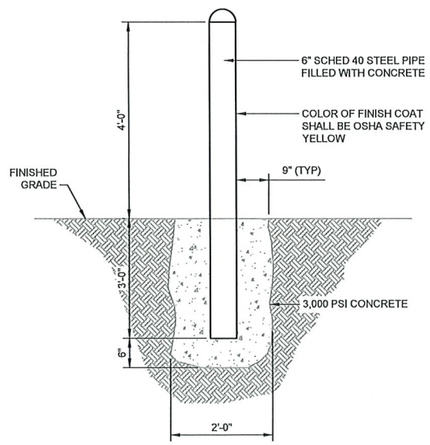
LOCATING TAPE



NOTE:
DETECTABLE IDENTIFICATION TAPE SHALL BE INSTALLED DIRECTLY OVER CENTERLINE OF THE PIPE AT 18-INCHES ABOVE THE PIPE.

5 DETAIL
SCALE: NTS

BOLLARD



6 DETAIL
SCALE: NTS

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100% SUBMITTAL

PAUL R. CHINDAMO
LICENSE
No. 73670
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS
CIVIL DETAILS

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

C-501

Bar Measures 1 inch, otherwise drawing not to scale

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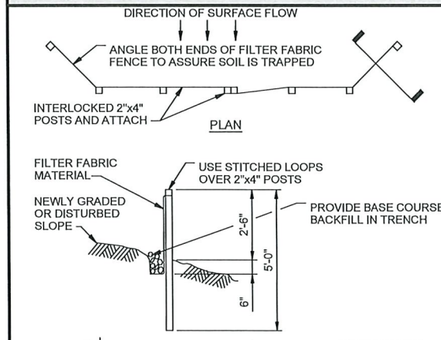
EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE FOLLOWING ARE BEST MANAGEMENT PRACTICES (BMP'S) NOTES AND DETAILS ARE ONLY A SUGGESTED APPROACH DEVELOPED FOR USE BY THE CONTRACTOR TO ASSIST THEM IN IMPLEMENTING APPROPRIATE POLLUTION PREVENTION TECHNIQUES TO COMPLY WITH FLORIDA'S NPDES STORMWATER MANAGEMENT DURING CONSTRUCTION ACTIVITY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT THE BEST MANAGEMENT PRACTICE THAT ARE APPROPRIATE FOR THE PROJECT'S SITE SPECIFIC CONDITIONS DURING THE LIFE OF THE CONSTRUCTION ACTIVITIES.
2. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.
3. ADDITIONAL PROTECTION–ON–SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORSEEN CONDITIONS OR ACCIDENTS.
4. THE CONTRACTOR IS RESPONSIBLE FOR AND SHALL COORDINATE WITH STOF PUBLIC WORKS SILT REMOVAL EFFORTS FROM SITE. PRIOR TO REMOVAL IT SHALL BE DETERMINED IF SILT IS NOT REUSABLE ON–SITE.
5. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
6. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
7. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.
8. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC., ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
9. THE SITE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER COMPLETION OF CONSTRUCTION AND ONLY WHEN AREAS HAVE BEEN STABILIZED.
10. THE COST OF STORM WATER EROSION CONTROL SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE ALLOWED.
11. UPON COMPLETION OF CONSTRUCTION THE CONTRACTOR, AT NO COST TO OWNER, SHALL BE RESPONSIBLE FOR RESTORING ALL AREAS WHERE EROSION CONTROL DEVICES WERE PROVIDED. RESTORATION EFFORTS SHALL LEAVE SITE IN AS GOOD AS, IF NOT BETTER CONDITION THAN WHAT EXISTED PRIOR TO CONSTRUCTION.
12. IF AN INADVERTENT DISCOVERY OF ARCHEOLOGICAL MATERIALS OR HUMAN REMAINS IS MADE, ALL WORK MUST STOP AND THE DISCOVERY MUST BE REPORTED TO THE TRIBAL HISTORIC PRESERVATION OFFICE (THPO) AT 863–983–6549. IN THE CASE OF DISCOVERY OF HUMAN REMAINS, NOTIFY THE SEMINOLE POLICE DEPARTMENT IMMEDIATELY AT 954–966–6300, THEN CALL THE THPO.
13. DURING ANY ACTIVITY, IF SOIL OR GROUNDWATER CONTAMINATION IS ENCOUNTERED, OR A SPILL OF HAZARDOUS MATERIAL OR OIL/GASOLINE OCCURS, STOP WORK IN THE AREA AND CONTACT THE ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT (ERMD) AT 954–965–4380 OR 863–763–4128 IMMEDIATELY.
14. CONSTRUCTION PERSONNEL INVOLVED ARE REQUIRED TO WATCH THE BEST MANAGEMENT PRACTICES (BMP) VIDEO FOR WILDLIFE PROTECTION. WILDLIFE BROCHURES MUST BE ON HAND DURING CONSTRUCTION AND POSTED ON BULLETIN BOARDS. THE VIDEO AND BROCHURES ARE AVAILABLE FROM ERMD UPON REQUEST AT 863–902–3200 X 13411.
15. A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES OVER ONE ACRE IS REQUIRED UNDER THE EPA 2017 CONSTRUCTION GENERAL PERMIT ON INDIAN COUNTRY. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE DEVELOPED PRIOR TO SUBMITTING THE NOTICE OF INTENT (NOI). A COMPLETE AND ACCURATE NOI MUST BE SUBMITTED TO THE EPA AT LEAST 14 CALENDAR DAYS PRIOR TO COMMENCING EARTH–DISTURBING ACTIVITIES TO BE ELIGIBLE FOR COVERAGE UNDER THE NPDES PERMIT. THE EPA REQUIRES THE NOI TO BE SUBMITTED ONLINE. INFO IS AVAILABLE AT HTTPS://WWW.EPA.GOV/NPDES/ELECTRONIC–NOTICE–INTENT–ENOI. COPY ERMDREQUEST@SEMTRIBE.COM ON YOUR SUBMITTAL. THE CONTRACTOR IS RESPONSIBLE FOR PREPARATION AND SUBMISSION OF THE REQUIRED NPDES PERMIT APPLICATION, SWPPP, AND

GENERAL NOTES

1. COMPLIANCE TO "TRENCH SAFETY ACT" IS REQUIRED FOR ALL EXCAVATIONS IN EXCESS OF 5 FEET DEEP. CONTRACTOR SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS STANDARDS OSHA 29 CFR 1910.146, 'PERMIT-REQUIRED CONFINED SPACES' AND OSHA 29 CFR 1926, 'SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION.'
2. IF AN INADVERTENT DISCOVERY OF ARCHEOLOGICAL MATERIALS OR HUMAN REMAINS IS MADE, ALL WORK MUST STOP AND THE DISCOVERY MUST BE REPORTED TO THE TRIBAL HISTORIC PRESERVATION OFFICE (THPO) AT 863-983-6549. IN THE CASE OF DISCOVERY OF HUMAN REMAINS, NOTIFY THE SEMINOLE POLICE DEPARTMENT IMMEDIATELY AT 954-966-6300, THEN CALL THE THPO.
3. DURING ANY ACTIVITY, IF SOIL OR GROUNDWATER CONTAMINATION IS ENCOUNTERED, OR A SPILL OF HAZARDOUS MATERIAL OR OIL/GASOLINE OCCURS, STOP WORK IN THE AREA AND CONTACT THE ENVIRONMENTAL RESOURCE MANAGEMENT DEPARTMENT (ERMD) AT 954-965-4380 OR 863-763-4128 IMMEDIATELY.
4. CONSTRUCTION PERSONNEL INVOLVED ARE REQUIRED TO WATCH THE BEST MANAGEMENT PRACTICES (BMP) VIDEO FOR WILDLIFE PROTECTION. WILDLIFE BROCHURES MUST BE ON HAND DURING CONSTRUCTION AND POSTED ON BULLETIN BOARDS. THE VIDEO AND BROCHURES ARE AVAILABLE FROM ERMD UPON REQUEST AT 863-902-3200 X 13411.
5. A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES OVER ONE ACRE IS REQUIRED UNDER THE EPA 2017 CONSTRUCTION GENERAL PERMIT ON INDIAN COUNTRY. A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE DEVELOPED PRIOR TO SUBMITTING THE NOTICE OF INTENT (NOI). A COMPLETE AND ACCURATE NOI MUST BE SUBMITTED TO THE EPA AT LEAST 14 CALENDAR DAYS PRIOR TO COMMENCING EARTH-DISTURBING ACTIVITIES TO BE ELIGIBLE FOR COVERAGE UNDER THE NPDES PERMIT. THE EPA REQUIRES THE NOI TO BE SUBMITTED ONLINE. INFO IS AVAILABLE AT HTTPS://WWW.EPA.GOV/NPDES/ELECTRONIC-NOTICE-INTENT-ENOI. COPY ERMDREQUEST@SEMTRIBE.COM ON YOUR SUBMITTAL. THE CONTRACTOR IS RESPONSIBLE FOR PREPARATION AND SUBMISSION OF THE REQUIRED NPDES PERMIT APPLICATION, SWPPP, AND NOI.

SEDIMENT FENCE

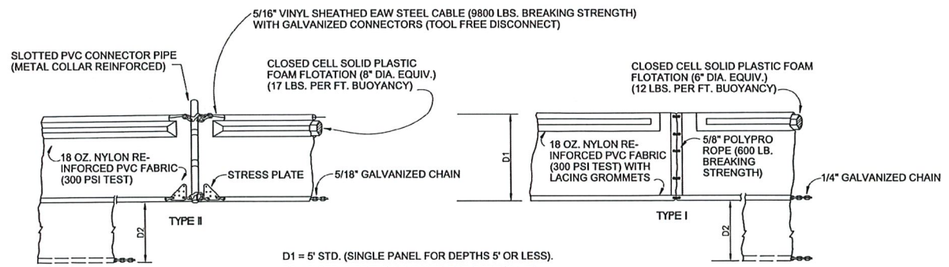


NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x4" TIMBER FIR OR STEEL FENCE POSTS.
3. STITCHED LOOPS TO BE INSTALLED DOWNHILL SIDE OF SLOPE.
4. COMPACT ALL AREAS OF FILTER FABRIC TRENCH.

1 **DETAIL**
SCALE: NTS

FLOATING TURBIDITY BARRIER



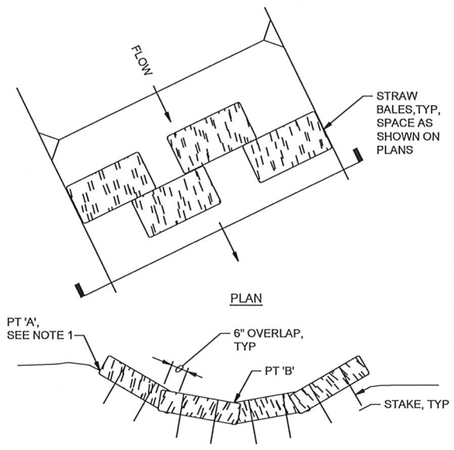
D1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').
CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET.
TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTES:

1. COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING AN ANCHOR PLAN WITH CONSIDERATION GIVEN TO DESIRED SHAPE, WIND AND CURRENT CONDITIONS. THE BARRIER SHALL BE ANCHORED TO BOTH SIDES.
3. WHILE IN SERVICE THE TURBIDITY BARRIER SHALL BE INSPECTED ON A REGULAR BASIS.

2 **DETAIL**
SCALE: NTS

STRAW BALE IN DITCHES

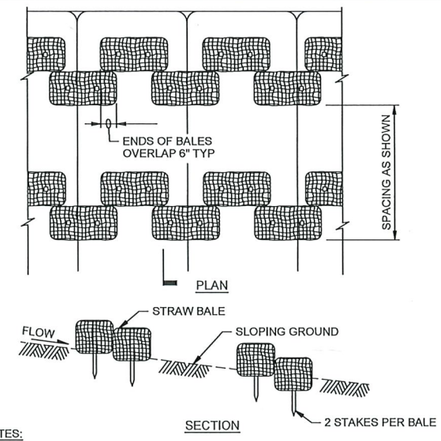


NOTES:

1. POINT 'A' MUST BE 6" MINIMUM HIGHER THAN PT 'B'.
2. STAKING OF BALES IS REQUIRED USING (2)2"x2"x3' LONG WOOD STAKES OR APPROVED EQUAL PER BALE.
3. DRIVE STAKES MINIMUM 12" INTO GROUND AND FLUSH WITH TOP OF BALES.
4. EMBED BALES MINIMUM OF 4" INTO GROUND SURFACE.
5. BIOFILTER BAGS TO BE USED, IF SPECIFIED.
6. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.

3 **DETAIL**
SCALE: NTS

STRAW BALE FOR OVERLAND FLOW



NOTES:

1. STAKING OF BALES IS REQUIRED USING (2) 2"x2"x3' LONG WOOD STAKES OR APPROVED EQUAL PER BALE.
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4 **DETAIL**
SCALE: NTS

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PH: (239) 390-1467

100% SUBMITTAL

PAUL R. CLINCHARD
LICENSE
No. 73870
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Collier County

MARK	DATE	DESCRIPTION	BY

COLLIER COUNTY PUBLIC UTILITIES
RAW WATER BOOSTER PUMP STATION IMPROVEMENTS
CIVIL DETAILS

PROJ:	200-08486-24001
DESN:	PC
DRWN:	GM
CHKD:	ML

C-502

Bar Measures 1 inch, otherwise drawing not to scale

4/11/2025 10:06:06 AM - O:\PROJECTS\ORLANDO\IER\08486\200-08486-24001\CAD\SHEETFILES\C-501 CIVIL DETAILS.DWG - MARQUEZ, GERMAIN