

ABBREVIATIONS

A.F.F. ABOVE FINISHED FLOOR
A.H.U. AIR HANDLING UNIT
ALUM. ALUMINUM
ALT. ALTERNATE
APPROX. APPROXIMATE

BD. BOARD
BLK. BLOCK
BLT. BLOCKING
BLT. BUILT
BRK. BRK.
BRKR. BREAKER
BSMT. BASEMENT

C.J. CONTROL JOINT
CLC. CEILING
CLF. CLASP
CML. CONCRETE MASONRY UNIT
C.O. CLEAN OUT
CONC. CONCRETE
COPPER COPPER
CU. FT. CUBIC FOOT
CU. IN. CUBIC INCH
CU. YD. CUBIC YARD

DIA./Ø. DIAMETER
DBL. DOUBLE
DBT. DRY-BULB TEMPERATURE
DEG. DEGREE
DEPT. DEPTMENT
D.F. DRINKING FOUNTAIN
DISC. DISCONNECT
DL. DEAD LOAD
DN. DOWN
D.S. DOWN SPOUT
DWC. DRAINING

E.F. EXHAUST FAN
EXH. EXHAUST
EXP. JT. EXPANSION JOINT
EXT. EXTERIOR

FIN. FINISH
FLUOR. FLUORESCENT
FLOOR. FLOOR
F.P. FIRE RATING
FT. FOOT/FEET
FTG. FOOTING

GALV. GALVANIZED
GFI. GROUND FAULT
CIRCUIT INTERRUPT
GOVTL. GOVERNMENT
GR.FL. GROUND FLOOR
GTF. GUTTER

H.C. HOLLOW CORE
H.C.D. HOT DIPPED GALVANIZED
HDL. HEADER
HDS. HARDWARE
H.P. HORSEPOWER
HT. HEIGHT
HTR. HEATER
HV. HIGH VOLTAGE
HVAC. HEATING, VENTILATING
AND AIR CONDITIONING
HWY. HIGHWAY

ID. INSIDE DIAMETER
IN. INCH
INCAND. INCANDESCENT
INCL. INCLUDED
INSUL. INSULATION
INT. INTERIOR
INV. EL. INVERT ELEVATION

JST. JOIST

KIL. KILN
KILN DRIED
KW. KILOWATT
KWH. KILOWATT HOUR

LAM. LAMINATED
LAV. LAVATORY
LG. LIGHT
LGTG. LIGHTING
LGT. LENGTH
LIN. LINEAR
LL. LINE LOAD

MANUF. MANUFACTURE
MAX. MAXIMUM
M.F. MILL FINISH
MIN. MINIMUM
MLD. MOLDING
MNL. MEAN HIGH WATER
MHWL. MEAN HIGHER HIGH WATER
MLWL. MEAN LOW WATER
MLWL. MEAN LOWER LOW WATER
MSL. MEAN SEA LEVEL
MOD. MODIFICATION

NTS. NOT TO SCALE
NO./# NUMBER

O.A. OVERALL
O.C. ON CENTER
O.D. OUTSIDE DIAMETER
OFF. OFFICE
O.H. OVER HEAD
OPP. OPPOSITE

PARTN. PARTITION
PC. PORTLAND CEMENT
P.C.F. POUNDS PER CUBIC FOOT
P.E. PROFESSIONAL ENGINEER
PERF. PERFORATE
PERF. PERPENDICULAR
PL. PLATE
PLG. PLUG
PLYWD. PLYWOOD
PNL. PANEL
PREFAB. PREFABRICATED
PRELIM. PRELIMINARY
PSK. POUNDS PER SQUARE FOOT
PSI. POUNDS PER SQUARE INCH
P.T. PRESSURE TREATED

QS. QUARTER SAWN

R. RADIUS
RCPT. RECEPTACLE
REBAR. REINFORCING BAR
REFRIG. REFRIGERATION
REIN. REINFORCING
RFL. ROOFING
RFL. ROUGH
RM. ROOM
R.O. ROUGH OPENING
RS. ROUGH SAWN

S.C. SOLID CORE
SCH. SCHEDULE
SCH. SCHED.
SECT. SECTION
SETWD. SETWOOD
SL. SLIDING GLASS DOOR
SH. SHINGLES
SPEC. SPECIFICATION
SPK. SPRUCE
SQ. FT. SQUARE FOOT
SQ. IN. SQUARE INCH
SQ. YD. SQUARE YARD
SS. STAINLESS STEEL
STL. STEEL
SUB. FL. SUBFLOOR
SUP. SUPPLY
SW. SWITCH
SYM. SYMMETRICAL
S.Y.P. SOUTHERN YELLOW PINE
SYS. SYSTEM
S4S. SURFACED FOUR SIDES

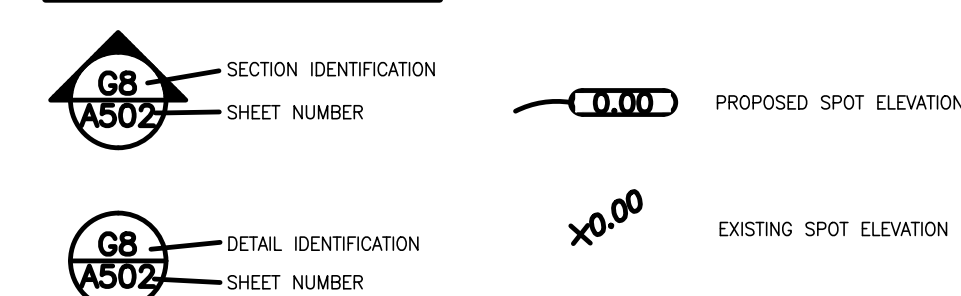
TEL. TELEPHONE
T&G. TONGUE-AND-GROOVE
TYP. TYPICAL

U.E. UNDERGROUND ELECTRIC
UG. UNDER GROUND
UNLAB. UNLABELED
LABORATORIES, INC.

V. VOLT
VENT. VENTILATOR
VERT. VERTICAL
VERIF. VERIFY IN FIELD
VOL. VOLUME
V.P. VENT PIPE
VTR. VENT THRU ROOF

W. WATER
W.C. WATER CLOSET
W.L. WOOD
WR. WATERPROOF
WW. WELDED WIRE FABRIC
YLD. YARD

REFERENCE LEGEND



PROJECT ADDRESS
STATE OF FLORIDA
FAKAHATCHEE STRAND STATE PARK
27027 TAMIAHI TRAIL E - US 41
NAPLES, FLORIDA 34114

OWNER
TITF/DEP - FAKAHATCHEE STRAND ST PRES
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399-6575
(850) 245-2094

AGENT
DAVID MATSON, ASSISTANT BUREAU CHIEF
3900 COMMONWEALTH BLVD. MS 520
TALLAHASSEE, FLORIDA 32399-3000
(850) 245-2594

Division of Recreation and Parks Bureau of Design and Construction

FAKAHATCHEE STRAND PRESERVE STATE PARK

DISTRICT 4
COLLIER COUNTY

WATER TREATMENT SYSTEM

PROJECT # 61561



3510 Kraft Road, Suite 200., Naples FL 34105
Phone 239-649-4040

Certificate of Authorization #27013 • www.stantec.com

SCOPE OF PROJECT

CONSTRUCTION OF POTABLE WATER WELL AND TREATMENT
SYSTEM TO SERVICE EXISTING RESTROOM FACILITY.

APPLICABLE CODES

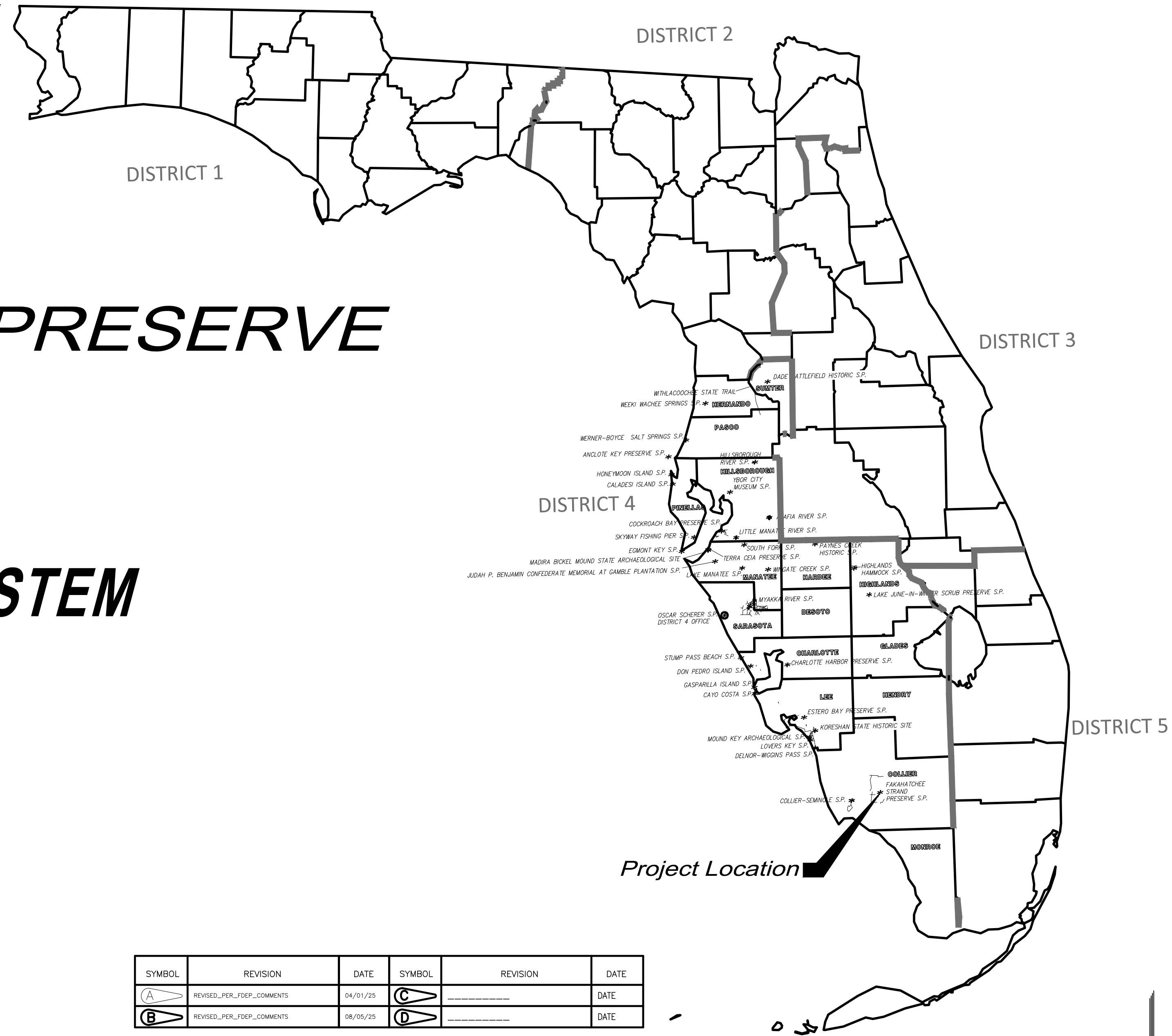
FLORIDA BUILDING CODE, BUILDING (FBC-B).....2023 EDITION
FLORIDA BUILDING CODE, ACCESSIBILITY (FBC-A).....2023 EDITION
FLORIDA FIRE PREVENTION CODE (FFPC).....2023 EDITION
NATIONAL ELECTRIC CODE (NEC).....2020 EDITION
FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONST.....LATEST EDITION
FDOT DESIGN STANDARDS.....LATEST EDITION

FOLIO (PROPERTY ID) NUMBER

01067280008

ZONING DESIGNATION

CON - ACSC/ST



SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
	REVISED_PER_FDEP_COMMENTS	04/01/25			DATE
	REVISED_PER_FDEP_COMMENTS	08/06/25			DATE

INDEX OF DRAWINGS:

G100	COVER SHEET
G101	GENERAL NOTES
C100	SITE PLAN 1
C101	SITE PLAN 2
C102	TREATMENT LAYOUT
C103	WATER TREATMENT DETAIL
C104	STANDARD DETAILS
E100	PANEL SCHEDULE & GENERAL NOTES
E101	ELECTRICAL SINGLE LINE DIAGRAM

FEMA FLOOD INSURANCE RATE MAP (FIRM) DATA:

COLLIER COUNTY AND UNINCORPORATED AREAS
COMMUNITY NUMBER: 120067
PANEL NO.: 880 OF 1175
SUFFIX: J
MAP NUMBER: 12021C0880J
SITE IS LOCATED IN: ZONE AE
BASE FLOOD ELEVATION: 9.00

CHRIS E. BROCKMEIER, P.E.
DESIGNER

56859
FL LICENSE #

02/11/2025
INITIAL ISSUE DATE

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*APPLIES TO SHEETS G100-G101 & C100-C104

GEOFFREY KRENKEL, P.E.
DESIGNER

86305
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02/11/2025
INITIAL ISSUE DATE

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*APPLIES TO SHEETS E100-E101



FAKAHATCHEE STRAND PRESERVE STATE PARK
WATER TREATMENT SYSTEM

GENERAL NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND ACCEPTING THE EXISTING CONDITIONS OF THE SITE PRIOR TO BIDDING.
2. ALL DISTURBED AREAS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REVEGETATED AS SPECIFIED BY THE PARK SERVICE BIOLOGIST. CONTRACTOR SHALL ACQUIRE, PLACE, WATER AND CULTIVATE REVEGETATIVE MATERIAL WITHIN THE "LIMITS OF CONSTRUCTION" AS NECESSARY TO RESTORE THE GROUNDS CONTAIN.
3. EXISTING UNDERGROUND UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL ENSURE THAT THE UTILITY SYSTEMS DO NOT CONFLICT WITH THE PROPOSED PROJECT. CONFLICTS SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY. LOCATIONS, ELEVATIONS, DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO BEST INFORMATION AVAILABLE. SOME INFORMATION MAY HAVE BEEN PROVIDED BY OTHERS, COULD NOT BE VERIFIED, AND MAY CONTAIN INACCURACIES WHICH WOULD REQUIRE MODIFICATIONS TO PLANNED CONSTRUCTION. FIELD VERIFY ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES AFFECTING WORK PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO ENGINEER FOR RESOLUTION. FIELD FAILURES TO FIELD VERIFY INFORMATION MAY RESULT IN REMOVAL AND REPLACEMENT AT NO COST TO OWNER OR ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES IN CONFLICT WITH THE WORK, CONSTRUCTION OF TEMPORARY UTILITIES IN THE EVENT THAT EXISTING UTILITY SERVICE MUST BE INTERRUPTED AND ANY OTHER CONSTRUCTION RELATED ACTIVITIES THAT MAY AFFECT EXISTING OR PROPOSED UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS, AVAILABLE RECORDS, AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS. INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE CORRECT HORIZONTAL OR VERTICAL LOCATIONS. THE CONTRACTOR WILL MAKE ITS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS NECESSARY TO ESTABLISH THEIR LOCATIONS AND AVOID DAMAGE. EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES. PROVIDE 48 HOURS NOTICE TO UTILITY OWNERS TO PERMIT MARKING LOCATIONS OF EXISTING UNDERGROUND UTILITIES. MARKED LOCATIONS ARE APPROXIMATE AND ACTUAL LOCATIONS MAY VARY. DETERMINE ACTUAL LOCATION OF UTILITY AND PROTECT UTILITIES TO REMAIN. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER OR ENGINEER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL GRADE STAKES, LINES AND LEVELS. SET CONSTRUCTION STAKES TO MARK CENTERLINE STATION, OFFSET AND ELEVATION OF WORK TO BE PERFORMED. AN ADEQUATE NUMBER OF STAKES SHALL BE PLACED SO PHYSICAL ITEMS CAN BE CONSTRUCTED IN ACCORDANCE WITH PLANS. THE CONSTRUCTION LAYOUT SURVEY SHALL BE IN ACCORDANCE WITH FLORIDA MINIMUM TECHNICAL STANDARDS FOR LAND SURVEYING, (CHAPTER 61G17-6, FAC), AND TO BE PERFORMED BY A PERSON OF ADEQUATE EXPERTISE. FAILURE TO PERFORM CONSTRUCTION STAKEOUT IN ACCORDANCE WITH CONSTRUCTION PLANS MAY RESULT IN REMOVAL AND REPLACEMENT OF IMPROVEMENTS AT NO COST TO THE OWNER OR ENGINEER. CONSTRUCTION LAYOUT INFORMATION IS PROVIDED IN FORM OF STATIONS AND OFFSETS AND/OR COORDINATES OBTAINED THROUGH COMPUTER GENERATION. INFORMATION IS ADEQUATE FOR CONSTRUCTION LAYOUT OF IMPROVEMENTS USING STANDARD SURVEYING CONSTRUCTION LAYOUT TECHNIQUES. DO NOT SCALE INFORMATION FROM PLANS OR ATTEMPT TO CONSTRUCT IMPROVEMENTS WITHOUT PERFORMING CONSTRUCTION LAYOUT IN ACCORDANCE WITH INFORMATION CONTAINED HEREIN. DATUM FOR ALL ELEVATIONS IN THESE PLANS IS NAVD88.
6. THE CONTRACTOR SHALL SOLID SOD ALL DISTURBED AREAS UNLESS OTHERWISE SPECIFIED OR SHOWN.
7. NO SEPARATE PAYMENT WILL BE MADE FOR DEWATERING. THE COSTS FOR DEWATERING ARE INCLUDED IN THE UNIT PRICES FOR CONSTRUCTING THIS PROJECT. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL PREPARE A PLAN FOR DEWATERING AND SUBMIT IT TO THE OWNER (OR OWNER'S DESIGNEE) AND THE NWFWMD FOR REVIEW AND APPROVAL. THE DISCHARGE OF WATER FROM ANY DEWATERING ACTIVITY INTO WETLANDS OR OTHER SURFACE WATERS IS STRICTLY PROHIBITED.
8. ALL AREAS, STREETS, DRIVEWAYS, PARKING LOTS, ETC. DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL OR BETTER CONDITION.
9. THE CONTRACTOR WILL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND WILL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE OWNER AND THOSE PERMITS OBTAINED BY THE CONTRACTOR.
10. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT TO THE OWNER'S PROJECT MANAGER A SCHEDULE OF VALUES, A CONSTRUCTION SCHEDULE, AND A SAFETY PLAN.
11. THE CONSTRUCTION SCHEDULE WILL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK. THE SCHEDULE IS TO BE APPROVED BY THE OWNER'S PROJECT MANAGER, AND WILL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION OR OTHER PAY ITEMS AS APPROPRIATE.
12. THE CONTRACTOR SHALL SUBMIT AN EROSION CONTROL PLAN FOR APPROVAL BY THE OWNER'S PROJECT MANAGER AND WILL ADDRESS THE INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT SEDIMENT AND EROSION CONTROL DEVICES TO BE USED DURING EACH PHASE OF CONSTRUCTION, INCLUDING TREE REMOVAL, CLEARING AND GRUBBING, EXCAVATION, HAULING OF EXCAVATED MATERIALS, AND PLACEMENT OF EMBANKMENT AND BACKFILL. THE PLAN ALSO WILL DETAIL THE EROSION CONTROL MEASURES TO BE EMPLOYED AT ALL STOCKPILE AND CONSTRUCTION STAGING AREAS AND WILL DEFINE THE MAXIMUM LIMITS OF ALL ACTIVE CONSTRUCTION ZONES.
13. ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PROJECT MANAGER AND:
- FDPE, BUREAU OF SURVEY AND MAPPING, MS 105
3900 COMMONWEALTH BLVD.
TALLAHASSEE, FLORIDA 32399
(850)245-2606 (OFFICE)
(850)245-2645 (FAX)
14. PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR WILL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND WILL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. THE CONTRACTOR WILL NOTIFY THE ELECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
15. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
16. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF VEGETATION ON AND ADJACENT TO THE PROJECT SITE, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES. ALL TREES WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED EXCEPT THOSE TREES IDENTIFIED ON THE PLANS TO BE REMOVED. ALL TREES OUTSIDE THE CONSTRUCTION WORK ZONE ARE TO BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE BARRICADES WILL BE INSTALLED AND MAINTAINED AROUND ALL TREES TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT MANAGER.
17. THE CONTRACTOR IS RESPONSIBLE TO PLACE AND MAINTAIN ROADSIDE WARNING SIGNS WHEN WORK IS BEING CONDUCTED IN THE PROPERTY RIGHT OF WAY OR WHEN MACHINERY IS ENTERING AND LEAVING THE PROJECT SITE.
18. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF EXCAVATED MATERIAL OFF-SITE UNLESS OTHERWISE DIRECTED BY THE PROJECT MANAGER.
19. CHECK PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF CONFLICTS BEFORE PERFORMING WORK.
20. EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES. PROVIDE 48 HOURS NOTICE TO UTILITY OWNERS TO PERMIT MARKING LOCATIONS OF EXISTING UNDERGROUND UTILITIES. MARKED LOCATIONS ARE APPROXIMATE AND ACTUAL LOCATIONS MAY VARY. DETERMINE ACTUAL LOCATION OF UTILITY AND PROTECT UTILITIES TO REMAIN. DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER OR ENGINEER.
21. REPAIR AT NO COST TO OWNER OR ENGINEER DAMAGE TO EXISTING IMPROVEMENTS, ABOVE OR BELOW GROUND, THAT OCCUR AS A RESULT OF CONSTRUCTION.
22. UNDERGROUND UTILITIES TO BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND PAVEMENT OR SURFACE CONSTRUCTION.

23. THE CONTRACTOR SHALL:
- COMPLY WITH ALL REGULATIONS, ORDINANCES, AND INSPECTION REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION ON THE PROJECT.
 - REVIEW AND COMPLY WITH CONDITIONS OF VARIOUS PERMITS OF GOVERNMENTAL AGENCIES.
 - SCHEDULE REQUIRED INSPECTIONS AND APPROVALS IN ACCORDANCE WITH REQUIREMENTS OF PERMIT CONDITIONS.
 - NOTIFY NECESSARY AGENCIES OF CONSTRUCTION COMMENCEMENT.
24. THE FOLLOWING REFERENCES ARE TO BE OF LATEST ISSUE AND CONSIDERED PART OF THE PROJECT DOCUMENTS AS THOUGH INCLUDED:
- FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
 - FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM.
 - FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, (MUTCD).
25. SAFETY: IT IS SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SAFE WORKSITE AND TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS ON THE JOBSITE.

UNSUITABLE MATERIAL

1. WHEN UNSUITABLE SOILS OR SOILS OF QUESTIONABLE SUITABILITY ARE ENCOUNTERED, OR IN AREAS WHERE UNSUITABLE SOILS HAVE BEEN NOTED FOR REMOVAL BY THE GEOTECHNICAL REPORT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO PERFORMING ANY WORK IN THE AFFECTED AREA. WORK PERFORMED ABOVE UNSUITABLE SOILS WHICH MUST BE DISTURBED DURING UNSUITABLE MATERIAL REMOVAL SHALL BE REPLACED OR REPAIRED AT NO COST TO THE OWNER.
2. UNSUITABLE SOILS ARE DEFINED AS THOSE COMPLYING WITH AASHTO SOIL CLASSIFICATION GROUPS A-2-6, A-2-7, A-4, A-5, A-6, A-7, AND A-8 OR AS SPECIFIED IN THE GEOTECHNICAL REPORT.

SITE PREPARATION, TESTING AND INSPECTION REQUIREMENTS

- THE LIMITS OF THE CONSTRUCTION AS DEFINED ON THESE PLANS ARE TO BE FLAGGED OR STAKED AND INSPECTED FOR APPROVAL BY THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING. OTHER AREAS FOR CLEARING AND GRUBBING AS DEFINED ON THE PLANS ARE TO BE FIELD LOCATED, FLAGGED OR STAKED AND INSPECTED FOR APPROVAL WITH THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING.
2. CLEAR AND GRUB SURFACE SOILS WITHIN THE PROJECT LIMITS OF CONSTRUCTION AS NECESSARY TO REMOVE ORGANICS AND OTHER DEEPER UNDERLYING MATERIALS. REMOVE SURFACE DEBRIS AND DUFF TO A DEPTH THAT EXPOSES UNDERLYING NON-ORGANIC SOIL. REMOVE LARGE ROOTS AND OTHER WOODY DEBRIS AS NECESSARY. REMOVE EXCAVATED TOPSOIL MATERIALS FROM SITE OR STOCKPILE AT REQUEST OF OWNER.
3. TOPSOIL FROM THE SITE SHALL BE STOCKPILED AND RE-SPREAD AFTER GRADING OPERATIONS ARE COMPLETE. TOPSOIL STOCKPILE AREA SHALL BE APPROVED BY THE OWNER OR OWNER'S REPRESENTATIVE.
4. LABORATORY MOISTURE-DENSITY RELATIONSHIPS SHALL BE PERFORMED FOR EACH SOURCE OF FILL MATERIAL OR AS MATERIAL CHANGES. FIELD DENSITY TESTS SHALL BE PERFORMED FOR EACH LIFT AS FOLLOWS:
 - 1 TEST PER 500 LF;
 - 1 TEST PER 750 SY;
 - 1 TEST PER 50 LF OF WALL FOOTING;
 - 1 TEST PER 3 COLUMN FOOTINGS;
 - OR A MINIMUM OF 3 TESTS.
6. STABILIZATION OF ALL ROADBEDS AND PARKING AREA IN ACCORDANCE WITH SECTION 160. A VIBRATORY ROLLER MAY BE USED TO FACILITATE COMPACTION.
7. FOR BUILDING AREAS, COMPACT EXISTING SOILS TO A DENSITY OF 95% OF ASTM D-1557 MAXIMUM DRY DENSITY TO A DEPTH OF TWELVE (12) INCHES BELOW COMPACTED GRADE.
8. FOR BUILDING AREAS, PLACE FILL IN THIN LEVEL LIFTS NOT TO EXCEED TWELVE (12) INCHES LOOSE THICKNESS AND COMPACT TO A DENSITY OF 95% OF ASTM D-1557 MAXIMUM DRY DENSITY THROUGHOUT ITS FULL DEPTH.
9. STABILIZE ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WITH VEGETATION IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL NOTES, PLANS, AND DETAILS, CONTAINED HEREIN, UNLESS OTHERWISE INDICATED.
10. SUITABLE FILL MATERIAL FOR PLACEMENT BENEATH PAVEMENT AND STRUCTURES TO BE SAND TO SLIGHTLY SILTY SAND MATERIAL WITH NOT MORE THAN 15% BY DRY WEIGHT FINER THAN NUMBER 200 MESH SIEVE. FILL MATERIAL TO BE FREE OF ORGANICS, RUBBLE, CLAY OR OTHER DELETERIOUS MATTER. FILL MATERIAL FROM ON-SITE SOURCES TO NOT BE ACCEPTABLE AS SUITABLE SOIL. FOR PLACEMENT BENEATH PAVEMENTS AND STRUCTURES UNLESS AUTHORIZED BY ENGINEER IN WRITING.
11. SUB-GRADE FOR PAVEMENT AND STRUCTURES TO BE COMPACTED IN ACCORDANCE WITH THESE PLANS AND GEOTECHNICAL REPORT. WHEN EXISTING SOILS OR BACKFILL SOILS WILL NOT PROVIDE REQUIRED LBR, STABILIZE TO ACHIEVE REQUIRED LBR. SAND-CLAY OR CLAY SOILS WILL NOT BE ALLOWED FOR STABILIZATION UNLESS SPECIFICALLY APPROVED BY ENGINEER.
12. PLACE UTILITIES, INCLUDING STORM SEWER (EXCEPT REINFORCED CONCRETE PIPE), SANITARY SEWER, POTABLE WATER, GAS, ELECTRIC, TELEPHONE, IRRIGATION AND CHASE LINES, TO PROVIDE MINIMUM 36 INCHES OF COVER UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ALL DAMAGES TO UTILITIES DUE TO INSUFFICIENT DEPTH TO BE REMOVED AND REPLACED AT NO COST TO OWNER.
13. ALL WASTE MATERIAL TO BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
14. PROPOSED SPOT ELEVATIONS REPRESENT PAVEMENT, SIDEWALK OR CURB FINISH ELEVATIONS OTHERWISE NOTED ON DRAWINGS.
15. FINISH FLOOR ELEVATION, FFE, SHOWN ON PLANS IS GROUND, BASE FLOOR SLAB ELEVATION NOT INCLUDING STEPS OR RECESSES UNLESS SPECIFICALLY DIMENSIONED. ADD OR SUBTRACT TO BASE FLOOR ELEVATION TO ACHIEVE FINISHED FLOOR ELEVATION. REFER TO ARCHITECTURAL PLANS FOR STEPS AND RECESSES IN SLAB. FINISHED SUB-GRADE ELEVATION BENEATH PROPOSED BUILDING SLAB AND FOUNDATIONS TO BE DETERMINED BY DEDUCTING FROM SHOWN BASE FLOOR SLAB ELEVATION THE NECESSARY STEPS, RECESSES, AND IMPROVEMENT THICKNESS IN ACCORDANCE WITH BUILDING PLANS.
16. SIDEWALKS TO HAVE A MAXIMUM 2% CROSS SLOPE AND MAXIMUM 5% LONGITUDINAL SLOPE UNLESS NOTED OTHERWISE.
17. PROVIDE 1/2" TO 1" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND OTHER MATERIALS (BUILDINGS, OTHER POURED CONCRETE, ETC.) EXCEPT ASPHALT.
18. ALL PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH SECTION 711, 001, STANDARD INDEX NO. 17346, AND THE MUTCD, LATEST EDITION.
19. CONSTRUCTOR TO TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT ABUTS.
20. AS PART OF ASPHALT PAVEMENT INSTALLATION, SPREAD SAND OVER FINISHED SURFACE FOR PROTECTION DURING FIRST 30 DAYS WHILE PAVEMENT CURES. AFTERWARDS, BROOM SWEEP PAVEMENT TO REMOVE SAND. IN NO CASE IS TRAFFIC ALLOWED ON SURFACE UNTIL SAND HAS BEEN SPREAD.

TESTING AND INSPECTION REQUIREMENTS

1. TESTING REQUIREMENTS TO BE IN ACCORDANCE WITH TESTING SCHEDULE AND TECHNICAL SPECIFICATIONS. MATERIAL SPECIFICATION TESTING IS THE RESPONSIBILITY OF CONTRACTOR. CONSTRUCTION COMPLIANCE TESTING IS RESPONSIBILITY OF OWNER, UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTING. FAILURE TO OBTAIN TESTS AND APPROVAL PRIOR TO PROCEEDING MAY RESULT IN TESTING COSTS TO BE PAID FOR BY CONTRACTOR OR REMOVAL AND REPLACEMENT OF ITEMS AT NO COST TO OWNER.
2. ASPHALT ACCEPTANCE TESTING TO CONSIST OF ONE PASS OF A STANDARD 15-FOOT ROLLING STRAIGHTEDGE OPERATED WHILE PAVEMENT IS STILL HOT. ALL DEFICIENCIES EXCESS OF 3/16 INCH TO BE CORRECTED IN ACCORDANCE WITH APPLICABLE FDOT STANDARD SPECIFICATION 330 OR 350.
3. THE CONTRACTOR SHALL WATER ALL PAVEMENT SURFACES WITH WATER AND INSPECT FOR PONDING WITH AN OWNER'S REPRESENTATIVE PRESENT. THE OWNER MAY HAVE THE CONTRACTOR RE-WATER THE PAVEMENT SURFACES. PONDING AREAS TO BE CORRECTED IN ACCORDANCE WITH APPLICABLE FDOT STANDARD SPECIFICATION 330 OR 350.

4. PAVEMENT AND STRIPING TO BE SUBJECT TO A VISUAL INSPECTION BY ENGINEER AND GEOTECHNICAL ENGINEER IN ADDITION TO TESTING REQUIREMENTS. SCHEDULE INSPECTION AND INCLUDE A REPRESENTATIVE OF GENERAL CONTRACTOR AND PAVING CONTRACTOR.
5. FINISH GRADE TO LINE GRADE AND ELEVATIONS SHOWN ON PLANS. INSURE FINISH GRADES ARE FREE FROM IRREGULAR SURFACE CHANGES FOLLOWING THE MINIMUM TOLERANCES ABOVE OR BELOW REQUIRED ELEVATIONS: (UNLESS MORE STRINGENT REQUIREMENTS PROVIDED ELSEWHERE)
- LAWN OR UNPAVED AREA.....0.10 FT.
 - DITCHES, CHANNELS AND SWALES.....0.05 FT.
 - DETENTION AND RETENTION AREAS.....0.05 FT.
 - PAVEMENTS AND SIDEWALKS.....3/8 INCH
 - BUILDING AREAS.....1/8 INCH IN 10 FEET.

APPROVALS

1. PRIOR TO COMMENCEMENT, SUBMIT FOR APPROVAL 5 COPIES OF MANUFACTURER'S DATA, SHOP DRAWINGS, AND CUT SHEETS FOR FOLLOWING ITEMS:
- GRAVEL SAMPLE
 - BASE MATERIAL
 - CONCRETE MIX DESIGN
 - ASPHALT MIX DESIGN
 - TRAFFIC PAINT
 - SIGN MATERIAL
 - ACQ TREATED WOOD
 - WELL PUMP
 - STORAGE TANK
 - REVERSE OSMOSIS SYSTEM / ETC. PER EQUIPMENT LISTED ON SHEET C104

EROSION CONTROL NOTES:

1. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NECESSARY TO ENSURE THE PROPER AND CONTINUED FUNCTION OF THE CONTROL(S).
3. ALL EROSION AND SEDIMENTATION CONTROL SHALL REMAIN IN PLACE UNTIL A PERMANENT VEGETATIVE COVER HAS BEEN ESTABLISHED.
4. UNDER NO CIRCUMSTANCES SHALL SEDIMENTS BE PERMITTED TO EXIT THE PROJECT LIMITS, INCLUDING TRACKING BY VEHICLES ONTO PAVED ROADWAYS. THE CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS OR ENHANCEMENTS TO ANY EROSION CONTROL SYSTEM THAT ALLOWS THE RELEASE OF SEDIMENTS.

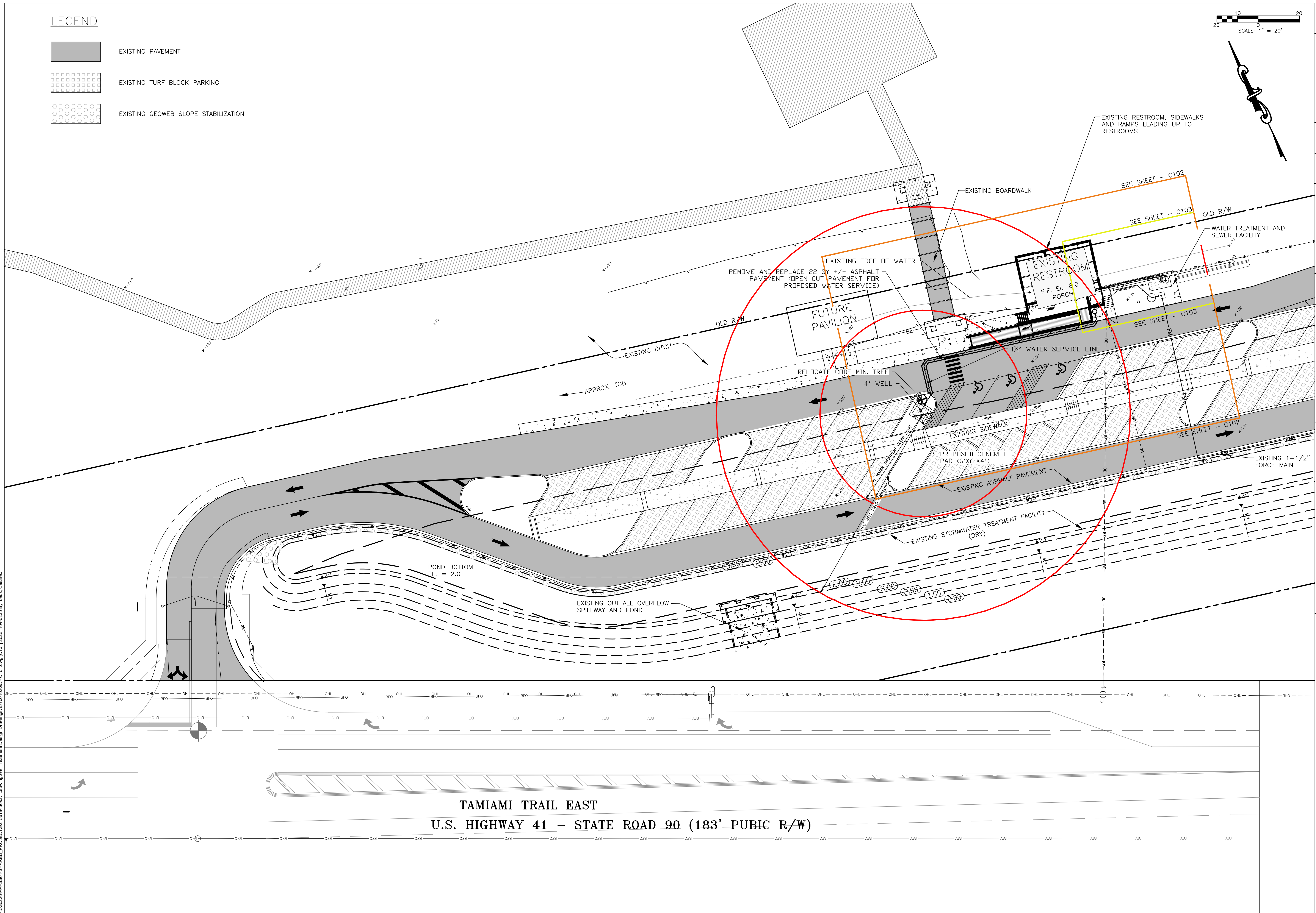
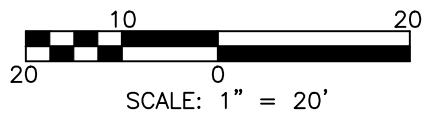
ENVIRONMENTAL COMPLIANCE

1. ALL PROJECT ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS AND ALL APPLICABLE REQUIREMENTS OF PERMITS OBTAINED FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE ASSURING COMPLIANCE WITH SUCH REGULATIONS, REQUIREMENTS, AND PERMIT CONDITIONS.
2. THE CONTRACTOR IS ADVISED THAT WETLANDS AND OTHER SURFACE WATERS (DRAINAGE DITCHES, CANALS, PONDS, AND SIMILAR OPEN OR PARTIALLY OPEN-WATER AREAS) ARE ADJACENT TO THE PROJECT CORRIDOR AND ALSO SO FALL WITHIN THE PROJECT LIMITS OF CONSTRUCTION. PROJECT ACTIVITIES ARE STRICTLY PROHIBITED WITHIN WETLANDS AND OTHER SURFACE WATERS UNLESS OTHERWISE INDICATED IN THESE PLANS. DISPOSAL OF WASTE MATERIALS, VEGETATION DEBRIS OR SIMILAR ITEMS IS PROHIBITED WITHIN WETLANDS AND OTHER SURFACE WATERS.
3. ANY MATERIAL INADVERTENTLY PLACED IN PROTECTED WETLAND OR OTHER SURFACE WATERS SHALL BE REMOVED BY HAND. ANY ACCIDENTAL DAMAGE CAUSED TO PROTECTED WETLANDS OR PROTECTED OTHER SURFACE WATERS AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER AND THE PROJECT ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR APPROPRIATE REMEDIATION OF ANY SUCH DAMAGE IN ACCORDANCE WITH DIRECTIVES AND SPECIFICATIONS PROVIDED BY THE OWNER OR THE OWNER'S DESIGNEE. PRIOR TO THE TIME OF THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR SHALL MEET WITH THE OWNER AND PROJECT ENGINEER TO FIELD-REVIEW THE LIMITS OF WETLANDS AND OTHER SURFACE WATERS THAT ARE IN CLOSE PROXIMITY TO PROJECT CONSTRUCTION AREAS.
4. CONSTRUCTION STAGING AND MATERIAL STORAGE AREAS, AS WELL AS TEMPORARY STOCKPILE AREAS FOR TOPSOIL, VEGETATION, AND/OR CONSTRUCTION DEBRIS, MUST BE LOCATED IN UPLANDS. THE SEPARATION DISTANCE BETWEEN SUCH AREAS AND ADJACENT WETLANDS OR OTHER SURFACE WATERS SHALL BE AT LEAST 50 FEET. STAGING OF MATERIALS OR EQUIPMENT, AS WELL AS TEMPORARY STOCKPILING, IS STRICTLY PROHIBITED WITHIN WETLANDS AND OTHER SURFACE WATERS. ALL CONSTRUCTION STAGING AND MATERIAL STORAGE AREAS PROPOSED FOR THE PROJECT SHALL FIRST BE APPROVED BY THE OWNER OR THE OWNER'S DESIGNEE AND BY THE NWFWM. ALL TEMPORARY STOCKPILE AREAS PROPOSED SHALL FIRST BE APPROVED BY THE OWNER OR THE OWNER'S DESIGNEE.
5. PRIOR TO CONSTRUCTION ACTIVITIES WITHIN WETLAND AND OTHER SURFACE WATER AREAS THAT WILL BE IMPACTED BY THE PROJECT, THE CONTRACTOR MUST FIRST SURVEY-LOCATE AND STAKE THE LIMITS OF CONSTRUCTION WITHIN AND IMMEDIATELY ADJACENT TO THESE FEATURES. FOLLOWING THIS, CONTRACTOR SHALL INSTALL THE EROSION/SEDIMENT CONTROL DEVICES (SILT FENCES, TURBIDITY BARRIERS, ETC.) CALLED FOR IN THESE PLANS. CONTRACTOR MUST FIRST OBTAIN THE OWNER'S APPROVAL OF THE STAKED LIMITS OF CONSTRUCTION AND THE EROSION/SEDIMENT CONTROL DEVICES PRIOR TO INITIATION OF CONSTRUCTION WORK WITHIN THE WETLAND AND OTHER SURFACE WATER AREAS SUBJECT FOR IMPACTS.
6. CONTRACTOR SHALL PROVIDE MAINTENANCE & SAMPLING ON ENTIRE SYSTEM FOR 1-YEAR.
7. CONTRACTOR SHALL PROVIDE REQUIRED LABORATORY SAMPLING TO CONFIRM COMPLIANCE AND USE OF THE TREATMENT SYSTEM TO SATISFY PERMIT CONDITIONS FOR FDEP (62-555.520(4)(A)5 F.A.C.).
8. CONTRACTOR SHALL COLLECT AN EQUIPMENT DISCHARGE SAMPLE (TO EXFILTRATION TRENCH) TO CONFIRM PERMEATE CONCENTRATION LEVELS AND PROVIDE LABORATORY ANALYSIS TO ENGINEER OR RECORD (62-555.520(4)(A)6 F.A.C.).

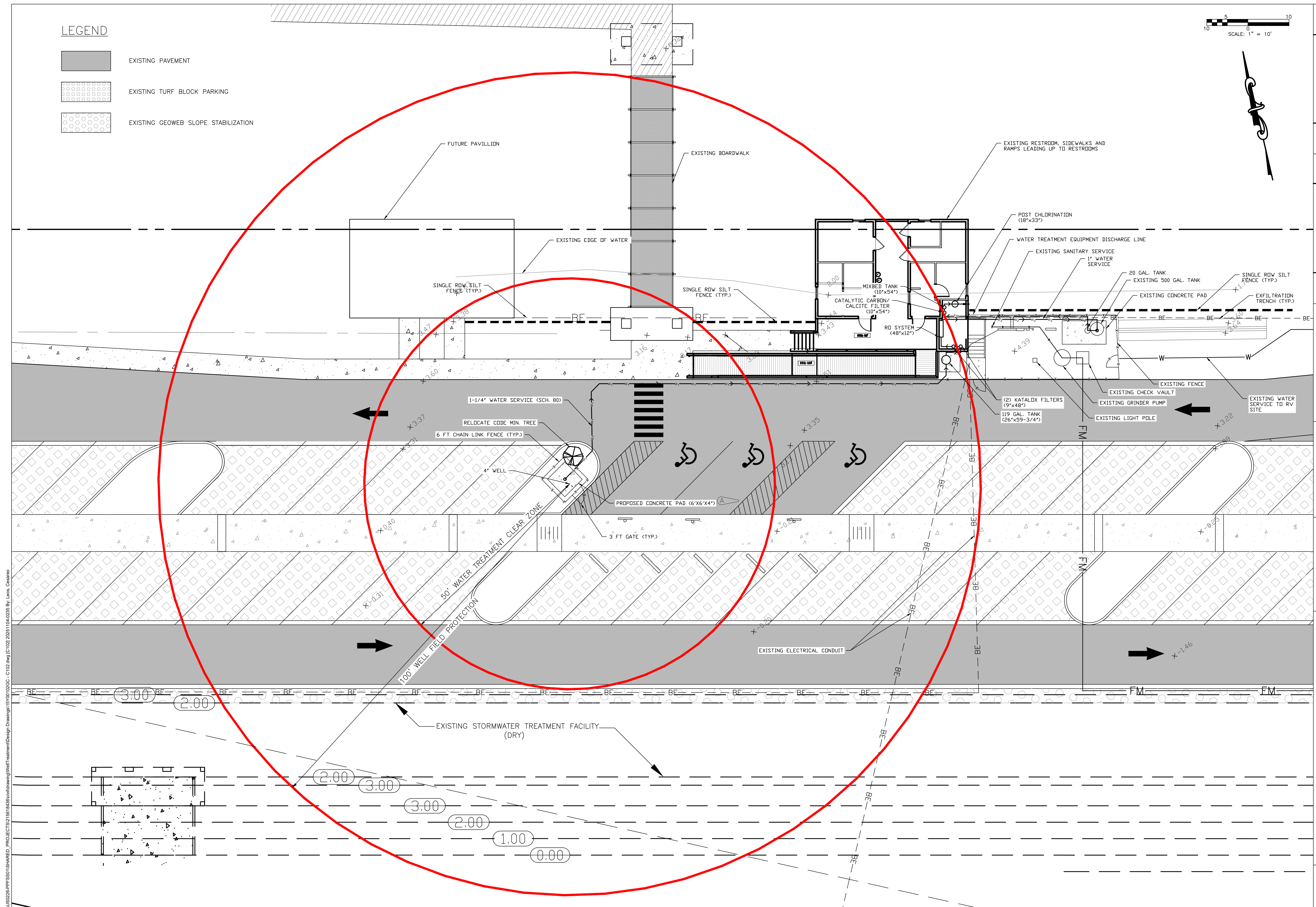
EXISTING PAVEMENT

EXISTING TURF BLOCK PARKING

EXISTING GEOWEB SLOPE STABILIZATION

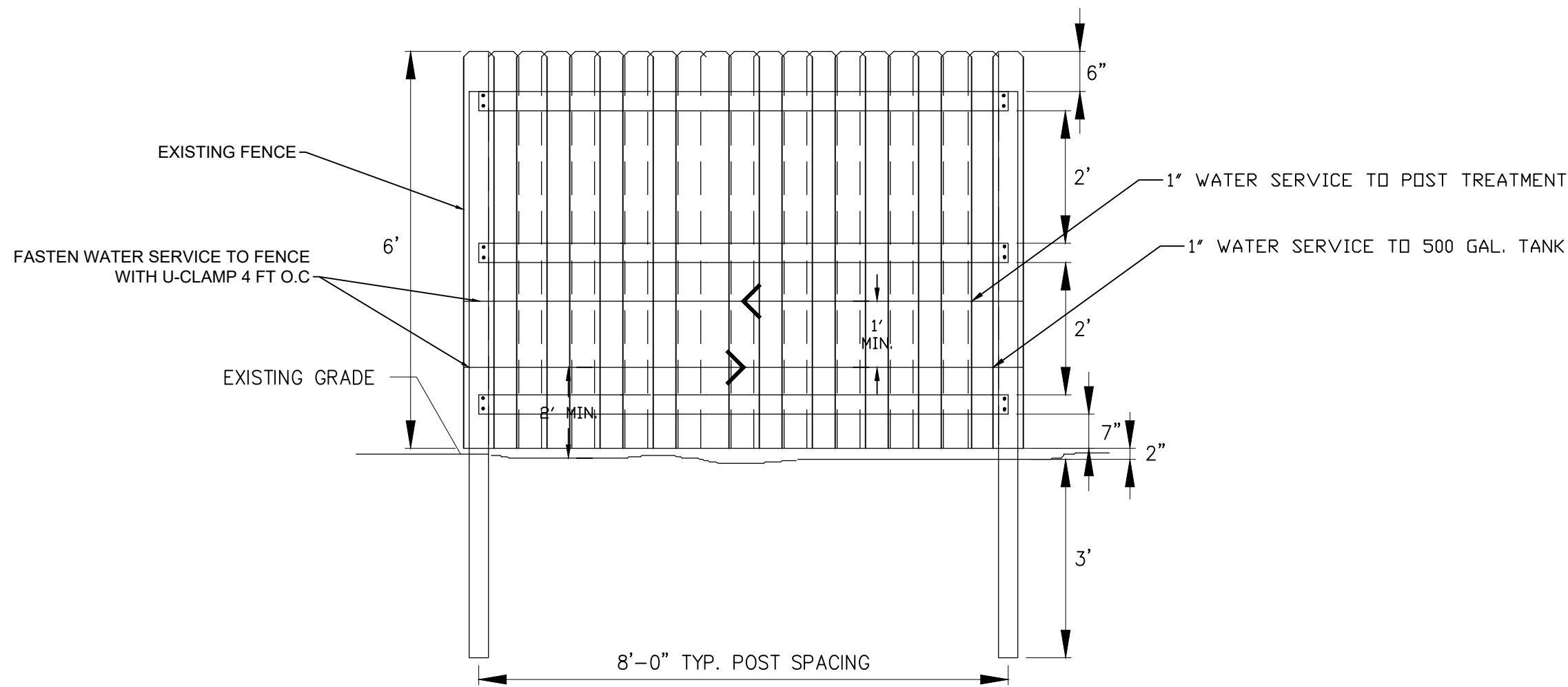


SHEET NO.	C101
PROJECT TITLE	WATER TREATMENT SYSTEM
PROFESSIONAL REGISTRATION	Stantec 3510 Kraft Rd., Suite 200, Naples, FL 34105 Phone 239-689-4700 Certificate of Authorization #27013 • www.stantec.com
FAKAHATCHEE STRAND PRESERVE STATE PARK	DESIGNER : CL DRAWN BY: DLP REVIEWED BY: CEB Consultant : ISSUE DATE: COMP. FILE No.: C101 STATE PROJECT No.: 61561
SHEET TITLE	SITE PLAN
	<i>Department of Environmental Protection</i> <i>Division of Recreation and Parks</i> <i>Bureau of Design and Construction</i> 3900 COMMONWEALTH BOULEVARD., Tallahassee, FL 32399 (850) 245-2119

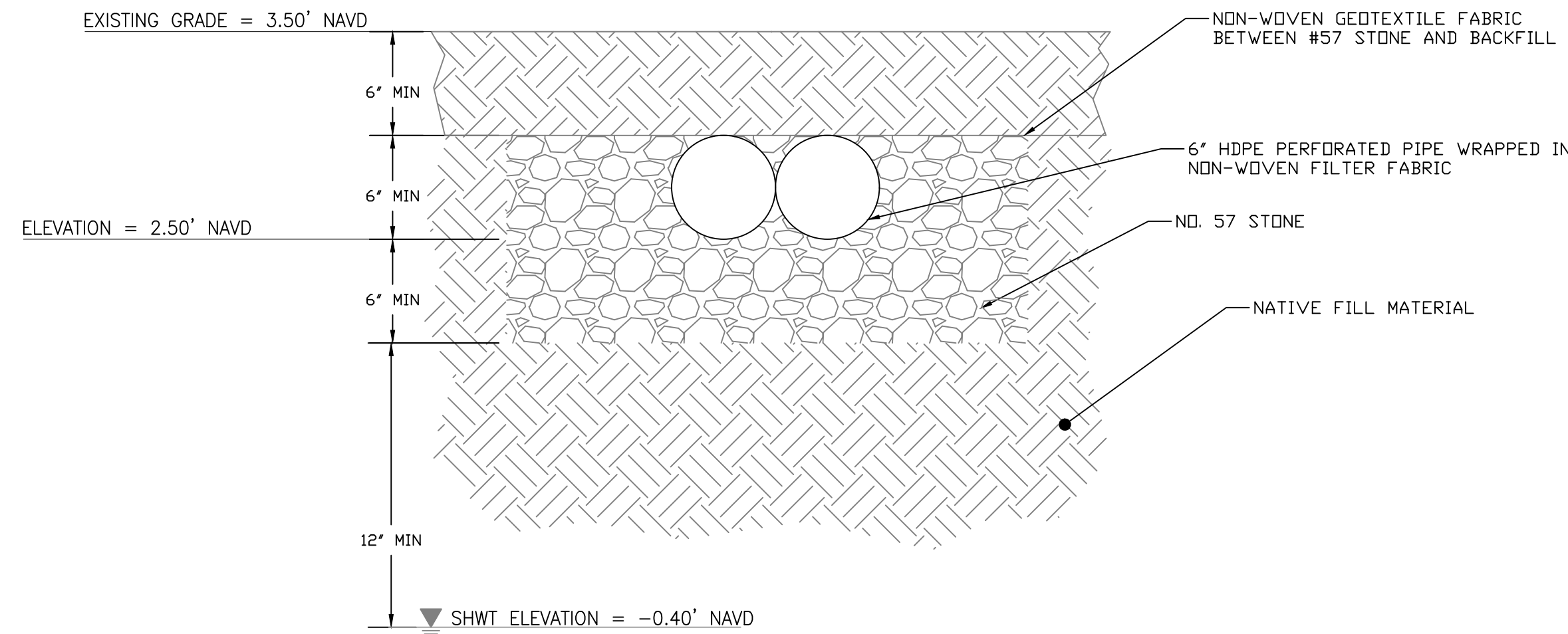


SHEET NO.	PROJECT TITLE	PROFESSIONAL REGISTRATION	DESIGNER : CL DRAWN BY: DLP REVIEWED BY: CEB	ISSUE DATE: COMP. FILE No.: C102 STATE PROJECT No.: 61561	SYMBOL REVISED_PER_FDEP_COMMENTS SYMBOL DATE REVISION DATE REVISION DATE
				 Stantec 3510 Kraft Rd, Suite 200, Naples, FL 34105 Phone: 239-649-4040 Certificate of Authorization #CZ0013 • www.stantec.com	Department of Environmental Protection Division of Recreation and Parks Bureau of Design and Construction 3900 COMMONWEALTH BOULEVARD., Tallahassee, FL 32399 (850) 245-2119
C102	FAKAHATCHEE STRAND PRESERVE STATE PARK		SITE PLAN		
	WATER TREATMENT SYSTEM				



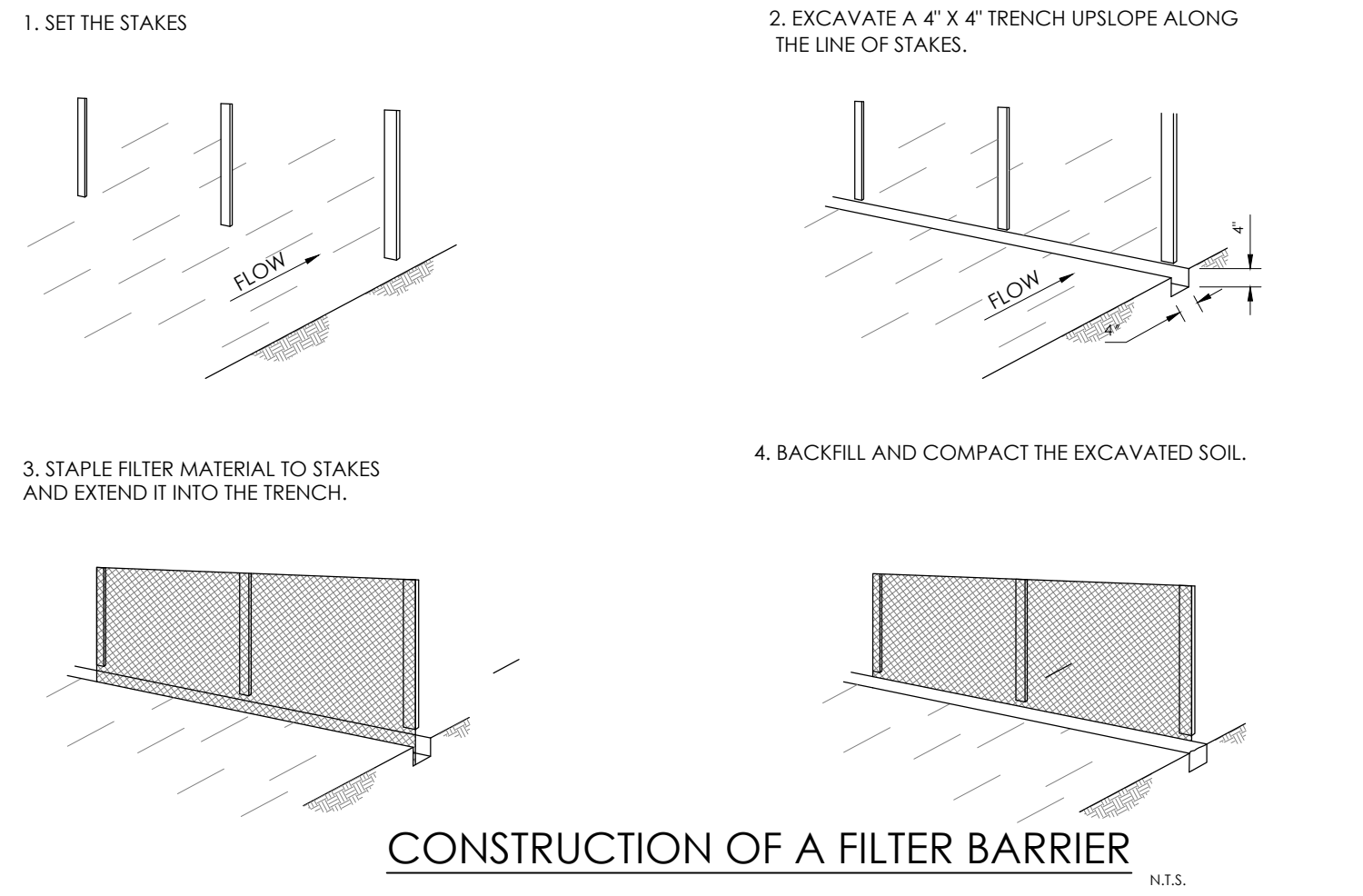


WATER SERVICE ATTACHED TO FENCE DETAIL

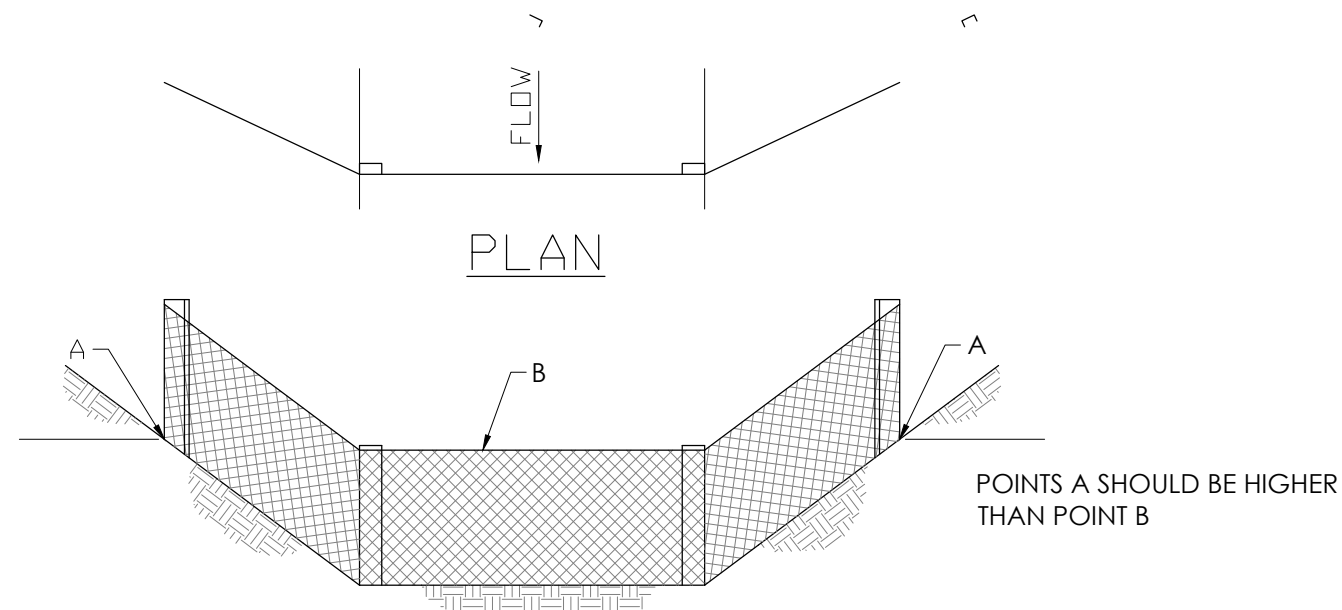


EXFILTRATION TRENCH DETAIL

EXFILTRATION TRENCH GEOMETRY					
BED WIDTH	BED LENGTH	# TRENCHES	TRENCH LENGTH	SEASONAL HIGH WATER ELEV.	TRENCH BOTTOM ELEV.
5'	36'	1	36'	-0.40'	2'



CONSTRUCTION OF A FILTER BARRIER



ELEVATION

PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

FAKAHATCHEE STRAND PRESERVE STATE PARK	DATE	REVISION	SYMBOL	DATE	REVISION	SYMBOL	ISSUE DATE	COMP. FILE No.: C105	STATE PROJECT No.: 61561	DESIGNER : CL	PROFESSIONAL REGISTRATION
	SHEET NO.		A			B	DRAWN BY: DLP			REVIEWED BY: CEB	
	PROJECT TITLE						CONSULTANT				
STANDARD DETAILS											
WATER TREATMENT SYSTEM											
C105											

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction

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