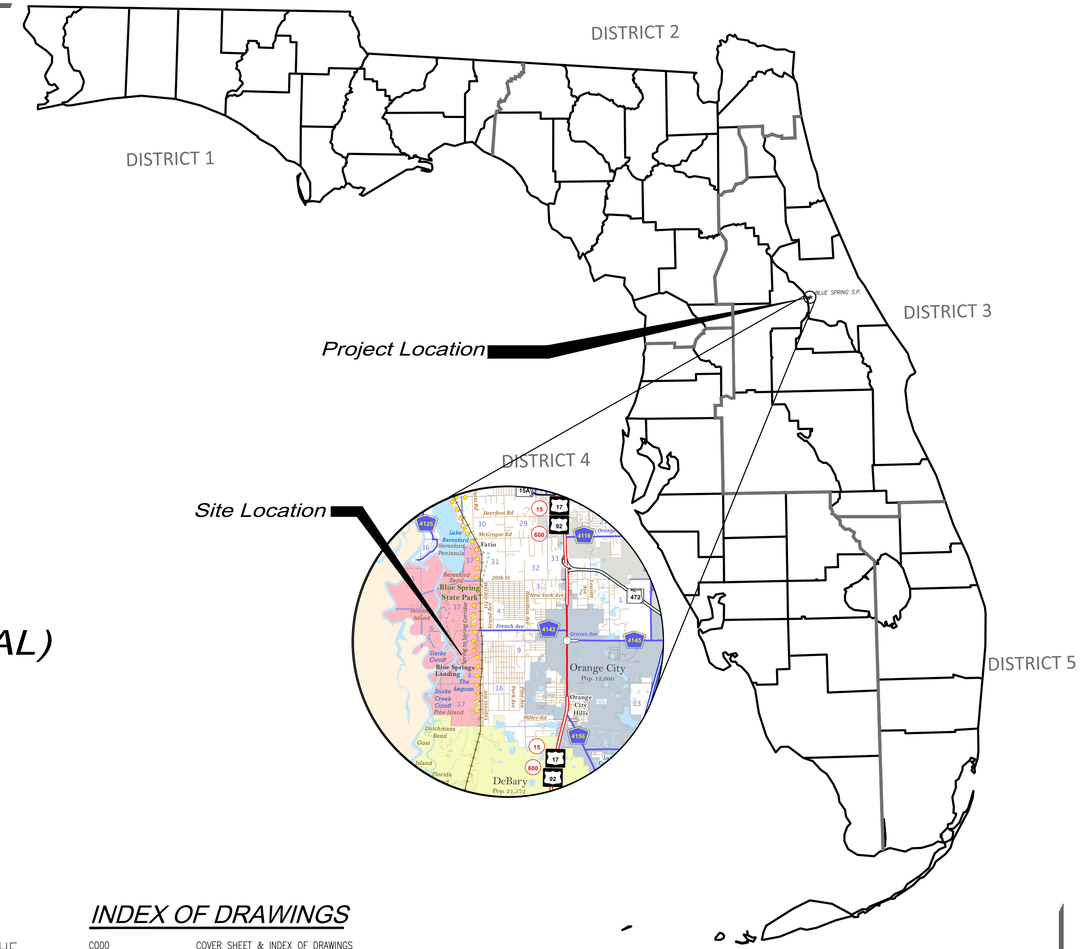
BLUE SPRING STATE PARK

DISTRICT 3

VOLUSIA

RESTROOM REPLACEMENT

PROJECT # 61565C (100% SUBMITTAL)


DISTRICT 1
DISTRICT 2
DISTRICT 3
DISTRICT 4
DISTRICT 5
Project Location
Site Location
BLUE SPRING S.P.
Blue Spring State Park
Orange City
Pop. 12,600
DeBary
Pop. 21,272
Deerfoot Rd
McGregor Rd
French Ave
Graves Ave
Miller Rd
Lake Beresford
Lake Beresford Peninsula
Blue Springs Landing
Starke Canal
Snake Creek Cutoff
Pine Island
Dutchmans Bend
Goat Island
Florida
Orange City Hills
Fatio
Deleon Springs
Orange Blossom Trail
Grand Ave
Shell Road
Cassia Ave
Dirksen Dr
Dixie Belle Dr
Dixie Belle Cir
Dixie Belle Ln
Dixie Belle Ct
Dixie Belle Pl
Dixie Belle Way
Dixie Belle Trl
Dixie Belle Blvd

PROJECT DESCRIPTION:
1. THE SITE IS LOCATED AT 2100 W. FRENCH AVE., ORANGE CITY, FL 32763
2. PROJECT AREA:
THE TOTAL PROJECT AREA IS 0.048 ACRES.
THE AREA TO BE DISTURBED IS 0.048 ACRES.

EXISTING SITE CONDITIONS:
THE EXISTING CONDITION OF THE PROJECT AREA CURRENTLY CONTAINS AN EMPTY LOT OF LAND WHERE THE RESTROOM WAS DEMOLISHED.

3. RECEIVING WATERS/WETLAND AREAS:
THE STORMWATER RUNOFF MAINTAINS ITS EXISTING CONDITIONS, DISCHARGE RATE AND LOCATION

4. STATE AND LOCAL PERMITS AND APPROVALS: ***PENDING APPROVAL***
THE FOLLOWING PERMITS OR APPROVALS HAVE BEEN ISSUED FOR THE CONSTRUCTION OF THE STORMWATER IMPROVEMENTS FOR THIS PROJECT:

GENERAL NOTES:
1. THESE PLANS SHALL NOT BE USED FOR CONSTRUCTION WITHOUT A 100% PLAN REVIEW APPROVAL LETTER FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
2. GEORGE F. YOUNG, INC. AND OWNER SHALL NOT HAVE AUTHORITY OVER THE SITE OR BUILDING CONTRACTORS' WORK OR RESPONSIBILITIES. GEORGE F. YOUNG, INC. AND OWNER IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION OR SITE SAFETY PROCEDURES.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS AND PAYING ALL PERMIT FEES REQUIRED TO CONSTRUCT THIS PROJECT. THE CONTRACTOR SHALL ALSO OBTAIN FROM THE OWNER COPIES OF ALL NECESSARY REGULATORY PERMITS AND LOCAL AGENCY PERMITS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL PERMITS MUST BE IN-HAND PRIOR TO CONSTRUCTION AND MUST BE KEPT ON SITE.
4. PRIOR TO COMMENCEMENT OF ANY SITE WORK, A PRE-CONSTRUCTION MEETING MAY BE REQUIRED BY THE FDEP BUREAU OF DESIGN AND CONSTRUCTION, AT A MINIMUM, THE CONTRACTOR, ENGINEER (OR ENGINEER'S REPRESENTATIVE), AND MEMBERS OF THE FDEP BUREAU OF DESIGN AND CONSTRUCTION SHALL BE PRESENT TO ADDRESS CONSTRUCTION REQUIREMENTS AND CONCERNS.
5. SURVEY INFORMATION INCLUDING BUT NOT LIMITED TO EXISTING SITE GRADES AND ELEVATIONS, LOCATION OF EXISTING IMPROVEMENTS, EXISTING PIPE INVERTS, EASEMENTS, RIGHTS OF WAY, AND OTHER TOPOGRAPHIC OR SURVEY INFORMATION HAS BEEN PREPARED BY GEORGE F. YOUNG, INC.
6. ALL ELEVATIONS IN THESE PLANS REFERENCE NAVD 1988 VERTICAL DATUM.
7. CONTRACTOR SHALL VERIFY SITE BOUNDARY AND TOPOGRAPHIC/SURVEY INFORMATION AND NOTIFY GEORGE F. YOUNG, INC. OF ANY DISCREPANCIES PRIOR TO SUBMITTING PRICES OR ORDERING MATERIALS.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PROPERTY CORNERS AND SURVEY BENCHMARKS AND TO ACCURATELY REPLACE OR RESTORE THEM IF DAMAGED OR DISTURBED DURING CONSTRUCTION.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE PROTECTION OF ADJACENT PROPERTIES AND EXISTING ON OR OFF SITE STRUCTURES, UTILITIES, AND OTHER IMPROVEMENTS TO REMAIN; AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGE CAUSED BY THE CONSTRUCTION ACTIVITIES ASSOCIATE WITH THIS PROJECT.
10. ALL EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CALL SUNSHINE811 PRIOR TO ANY DEMOLITION, DIGGING, OR CONSTRUCTION ACTIVITIES. CONTRACTOR MUST HAVE EXISTING UTILITIES LOCATED BY UNDERGROUND LINE LOCATORS AND FIELD VERIFIED BY ONSITE PERSONNEL PRIOR TO ORDERING MATERIALS OR COMMENCING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO GEORGE F. YOUNG, INC.
11. PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR SHALL SUBMIT COPIES OF ALL SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ENGINEER'S APPROVAL OF SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY CONCERNING ERRORS AND OMISSIONS. WHEN FIELD CONDITIONS MERIT DEVIATIONS FROM THE REQUIREMENTS OF THESE PLANS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AT THE TIME OF SUBMISSION OF SHOP DRAWINGS. PRIOR TO SUBMISSION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO THOROUGHLY REVIEW SHOP DRAWINGS AND MATERIALS OR PRODUCT DATA FOR COMPLETENESS AND COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, TO VERIFY ALL DIMENSIONS AND FIELD CONDITIONS, AND TO COORDINATE THE SHOP DRAWINGS WITH THE REQUIREMENTS FOR OTHER RELATED WORK.
12. ALL WORK OR MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS LISTED ON THE KEY SHEET OR WITHOUT DIRECT APPROVAL BY THE ENGINEER IS SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
13. FDOT SPECIFICATION 300-2.3 TACK COAT: UNLESS THE CONTRACT DOCUMENTS CALL FOR A SPECIFIC TYPE OR GRADE OF TACK COAT, USE PG 52-28 MEETING THE REQUIREMENTS OF 916-1, HEATED TO A TEMPERATURE OF 250 TO 300°F OR USE UNDILUTED EMULSION RS-1H, RS-2, CRS-1H, NTSS-1HM, NTCRS-1HM, OR EM-50-TT MEETING THE REQUIREMENTS OF 916-2. HEAT THE EMULSION TO A TEMPERATURE OF 150 TO 180°F. THE CONTRACTOR MAY USE RS-1H MODIFIED TO INCLUDE UP TO 3% NAPTHA TO IMPROVE HANDLING OF THE MATERIAL DURING WINTER MONTHS OF DECEMBER, JANUARY, FEBRUARY OR AT ANY OTHER TIME, APPROVED BY THE ENGINEER. FOR NIGHT PAVING, USE PG 52-28 TACK COAT. THE ENGINEER MAY APPROVE AN EMULSION LISTED ABOVE FOR NIGHT PAVING IF THE CONTRACTOR DEMONSTRATES, AT THE TIME OF USE, THAT THE EMULSION WILL BREAK AND NOT AFFECT THE PROGRESS OF THE PAVING OPERATION.
14. CONSTRUCTION ACTIVITIES ARE TO ONLY BE PERFORMED FROM DAWN TO DUSK.
15. IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, PASCO COUNTY AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED, AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

GRADING NOTES:
1. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY PROFESSIONAL SERVICE INDUSTRIES, INC. AND IS AVAILABLE FOR INFORMATION PURPOSES. THE CONTRACTOR SHOULD REVIEW THIS REPORT, VISIT THE SITE AND COMPLETE ANY ADDITIONAL EXPLORATIONS NECESSARY IN ORDER TO PROVIDE A SATISFACTORY BID FOR THE WORK REQUIRED.
2. ALL TOPSOIL WITHIN THE PROPOSED LIMITS OF GRADING SHALL BE STRIPPED AND SHALL BE STOCKPILED ON-SITE IN AN APPROVED LOCATION FOR LATER USE DURING FINISHED GRADING AND LANDSCAPING ACTIVITIES. AFTER ALL LANDSCAPED AREAS HAVE BEEN BROUGHT TO FINISHED GRADE, ANY EXCESS SOILS SHALL BE DISPOSED OF OFF-SITE UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL STOCKPILES SHALL BE STABILIZED TO PREVENT EROSION.
4. COORDINATE THE SEQUENCING OF ALL CLEARING AND GRUBBING AND GRADING ACTIVITIES WITH THE EROSION CONTROL PLAN.
5. ALL AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF 7 DAYS OR MORE SHALL BE STABILIZED WITH SEED AND MULCH OR OTHER ACCEPTABLE MEANS. FOR VEGETATED AREAS, PERMANENT VEGETATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.
6. LIMITS OF LAND CLEARING SHALL BE 5' OUTSIDE OF ALL AREAS TO BE GRADED OR NOT BEYOND THE PROPERTY LINES, WHICHEVER IS LESS. NO GRADING SHALL OCCUR OFF-SITE OR IN ANY ROAD RIGHT-OF-WAY WITHOUT PRIOR APPROVALS.
7. PROPOSED GRADES INDICATED ON THIS PLAN ARE TO FINISHED GRADE. THE CONTRACTOR SHALL MAKE SUB-GRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL SWALES ARE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AT NO ADDITIONAL COST TO THE OWNER, TO MAKE ANY NECESSARY ADJUSTMENTS IF THE SWALES ARE NOT CONSTRUCTED ACCURATELY.
9. THE MAXIMUM SLOPE IN HANDICAP PARKING AREAS SHALL NOT EXCEED 2.0% GRADE IN ANY DIRECTION. THE MAXIMUM SLOPE IN THE DIRECTION OF TRAVEL IN ALL HANDICAP ACCESS ROUTES SHALL NOT EXCEED 5.0% GRADE AND 2.0% CROSS SLOPE.
10. AREAS WITH LIMITED SPACES SUCH AS FOR INSTALLATION OF MANHOLES, INLETS, OR UTILITY TRENCHES SHOULD BE BACKFILLED AND COMPACTED METHODICALLY, AT THE DIRECTION OF THE ON-SITE GEOTECHNICAL ENGINEER. STONE BACKFILL SHALL BE INSTALLED IN 12" LOOSE LIFTS AND COMPACTED WITH 6-8 PASSES OF A VIBRATORY COMPACTOR.
11. SUBGRADE SHALL BE PROOF ROLLED WITH A HEAVILY LOADED DUMP TRUCK OR A 5-TON (STATIC DRUM WEIGHT) VIBRATORY ROLLER AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL. ANY AREAS SHOWING SIGNS OF PUMPING, RUTTING, OR ANY UNSUITABLE (ORGANIC, SOFT, WET, LOOSE) MATERIAL FOUND IN PLACE SHALL BE UNDERCUT AND REPLACED, OR MOISTURE CONDITIONED AND COMPACTED TO THE SPECIFIED DENSITY AND MOISTURE CONTENT LISTED BELOW.
12. ALL EXPOSED SUBGRADE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 24" AND RECOMPACT TO 95% MODIFIED PROCTOR MAXIMUM DRY DENSITY AND WITHIN ±3.0% OF OPTIMUM MOISTURE CONTENT.
13. IN THE EVENT THAT THE SUBGRADE IS AFFECTED BY INCLEMENT WEATHER OR CONSTRUCTION TRAFFIC AFTER IT HAS BEEN INITIALLY PREPARED THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING IT TO THE PROPER CONDITION PRIOR TO PLACING FILL.
14. FILL MATERIAL SHALL HAVE THE FOLLOWING PROPERTIES: VIRTUALLY FREE OF ORGANICS, NO ROCK FRAGMENTS GREATER THAN 4" WITHIN 4" OF FINISH GRADE. THE FILL SHALL CONSIST OF FINE TO MEDIUM SAND WITH LESS THAN 15% SOIL FINES. FILL MATERIAL WITH SOIL FINES BETWEEN 5 AND 15 PERCENT MAY BE USED BUT STRICT MOISTURE CONTROL MAY BE REQUIRED. COORDINATE WITH ON-SITE GEOTECHNICAL ENGINEER FOR MOISTURE CONTROL.
15. FILL MATERIAL SHALL BE COMPACTED TO 98% MODIFIED DRY DENSITY IN PAVED AND STRUCTURAL AREAS AND AT LEAST TO 95% MODIFIED DRY DENSITY IN NON-STRUCTURAL AND LANDSCAPED AREAS, AND SHALL BE PLACED IN 10"-12" LOOSE LIFTS (8" IN TRENCHES), AND WITHIN ±3.0% OF OPTIMUM MOISTURE CONTENT. STRUCTURAL AREAS INCLUDE ZONES OF INFLUENCE AROUND THE BUILDING, PAVEMENT AREAS, FILL SLOPES, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING COMPACTION TESTING.
16. FILL SLOPES SHOULD BE BENCHED INTO THE EXISTING SLOPES AND SHOULD BE COORDINATED WITH THE ONSITE GEOTECHNICAL ENGINEER FOR DEPTH OF BENCH INTO THE SLOPE.
17. EXCAVATIONS OR STOCKPILED EXCAVATION MATERIALS SHALL NOT BLOCK ACCESS TO OFF-SITE SIDEWALKS, ROADS, OR DRIVEWAYS UNLESS AN ADEQUATE BYPASS ROUTE IS PROVIDED. CONTRACTOR SHALL MINIMIZE INCONVENIENCE TO ADJACENT PROPERTIES.
18. THE CONTRACTOR SHALL PROVIDE NECESSARY SAFETY AND PROTECTIVE DEVICES AT ALL EXCAVATIONS AREAS.
19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AT NO ADDITIONAL COST TO THE OWNER, TO PROVIDE AND MAINTAIN ANY SHEETING, BRACING, SHORING, ETC. REQUIRED TO CONTAIN EXCAVATIONS AND STOCKPILES WITHIN THE PROPERTY OR EASEMENTS PROVIDED, TO STABILIZE THE SIDES OF THE EXCAVATION, TO BE IN ACCORDANCE WITH OSHA REQUIREMENTS, AND TO PREVENT ANY MOVEMENT WHICH MAY CAUSE DAMAGE TO ADJACENT STRUCTURES OR PAVEMENT.

EROSION AND SEDIMENTATION CONTROL NOTES:
1. EROSION AND SEDIMENT CONTROL IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE STATE, FEDERAL, AND LOCAL EROSION CONTROL REGULATIONS AND SHALL ENSURE THAT ANY STORMWATER AND NON-STORMWATER DISCHARGES FROM THE SITE DO NOT EXCEED THE TOLERANCES SET FORTH IN THOSE REGULATIONS.
2. EROSION AND SEDIMENT CONTROLS ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION.
3. THE EROSION AND SEDIMENT CONTROL MEASURES OUTLINED IN THESE PLANS ARE REPRESENTATIVE OF BEST MANAGEMENT PRACTICES, AND ARE INTENDED TO MEET THE MINIMUM ACCEPTABLE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND ENSURE COMPLIANCE WITH RULES OF THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, CHAPTER 17-25-FAC AND THE LOCAL WATER MANAGEMENT DISTRICT. ADDITIONAL CONTROLS MAY BE NECESSARY DEPENDING ON SITE CONDITIONS, CONSTRUCTION PHASING, RAINFALL SEVERITY, AND ACTUAL EFFECTIVENESS OF CONTROLS, AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. IN ADDITION TO THIS PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING AND MAINTAINING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH FDEP REGULATIONS. THE SWPPP SHALL BE COMPLETED PRIOR TO THE SUBMITTAL OF THE NOTICE OF INTENT (NOI) TO BE COVERED UNDER THE DEPARTMENT'S GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
5. THE SWPPP SHALL INCLUDE A CONSTRUCTION SCHEDULE PREPARED BY THE SITE CONTRACTOR. THIS SCHEDULE SHALL INCLUDE THE DATE GRADING WILL BEGIN, THE EXPECTED DATE OF FINAL STABILIZATION, AND THE SCHEDULE FOR INSTALLATION AND MAINTENANCE OF SPECIFIC CONTROL MEASURES AS RELATED TO THE SCHEDULE OF CONSTRUCTION ACTIVITIES. IN CASE OF DISCREPANCIES, SEQUENCING OUTLINED IN THE SWPPP SHALL PREVAIL.
6. THE SWPPP SHALL BE AMENDED WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS TO WETLANDS, SURFACE WATERS OF THE STATE, OR A MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4). THE SWPPP ALSO SHALL BE AMENDED IF IT PROVES TO BE INEFFECTIVE AND/OR TO INDICATE ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT ANY MEASURE OF THE SWPPP.
7. THE FOLLOWING MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR THIS PROJECT:
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT (NOI) FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER A NPDES GENERAL PERMIT" (EPA FORM 4510-9 OR LATEST VERSION) TO EPA.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300(4)(B) OR LATEST VERSION) TO FDEP.
8. GENERAL SEQUENCING FOR EROSION CONTROL
   a. INSTALLATION OF PERIMETER CONTROLS AND INLET PROTECTION.
   b. CONSTRUCTION OF SEDIMENT BASIN.
   c. CLEARING AND GRUBBING.
   d. SITE GRADING (ALL AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF 7 DAYS OR MORE SHALL BE STABILIZED WITH SEED AND MULCH OR OTHER ACCEPTABLE MEANS).
   e. SITE DEVELOPMENT AND BUILDING CONSTRUCTION.
   f. FINAL STABILIZATION.

   SEE EROSION CONTROL PLAN FOR ADDITIONAL CONSTRUCTION SEQUENCING NOTES.
9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP APPLICABLE BEST MANAGEMENT PRACTICES (BMPS) TO ENSURE THE CONTROL OF EROSION AND SEDIMENT, OFF-SITE TRACKING, SPILLS, SANITARY WASTE, FERTILIZERS & PESTICIDES, FUEL STORAGE, SOLID WASTE DISPOSAL, STORMWATER DISCHARGES, NON-STORMWATER DISCHARGES, AND HAZARDOUS WASTE. WHEN A SPILL IS ENCOUNTERED, CONSTRUCTION SHALL STOP AND WORK SHALL NOT RESUME UNTIL DIRECTED BY THE PROJECT ENGINEER. DISPOSITION OF HAZARDOUS WASTE, SOLID WASTE, OR SANITARY WASTE SHALL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION.

EROSION CONTROL BEST PRACTICES:
1. CONSTRUCTION ACTIVITIES SHOULD BE PLANNED IN PHASES WITH THE MINIMUM AMOUNT OF LAND DISTURBANCE NECESSARY TO DEVELOP OCCURRING IN EACH PHASE IN ORDER TO REDUCE THE EROSION POTENTIAL OF THE SITE.
2. PERIMETER CONTROLS, SEDIMENT TRAPS, BASINS, DIVERSIONS, AND OTHER EROSION CONTROLS SHOULD BE INSTALLED PRIOR TO ANY LAND DISTURBANCE AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETE, FINAL STABILIZATION IS ESTABLISHED AND THE SITE INSPECTOR HAS APPROVED THEIR REMOVAL.
3. CONSTRUCTION ENTRANCE/EXIT PADS SHOULD BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ACTIVITIES AND SHOULD BE MONITORED REGULARLY FOR EFFECTIVENESS IN MINIMIZING OFFSITE SEDIMENT TRACKING.
4. THE CONTRACTOR SHALL EXCAVATE THE PROPOSED STORMWATER POND(S) OR AN APPROPRIATE SIZE SEDIMENTATION BASIN AT THE COMMENCEMENT OF GRADING ACTIVITIES, AND SHALL DIRECT SITE RUNOFF TO THESE LOCATIONS TO MINIMIZE OFFSITE RUNOFF.
5. STORAGE AREAS, VEHICLE WASH DOWN AREAS, CONCRETE WASHOUT AREAS, WASTE COLLECTION AND DISPOSAL AREAS, AND OTHER POTENTIAL POLLUTION SOURCES SHOULD BE CLEARLY DELINEATED ON THE SITE WITH SIGNAGE SO THEY CAN BE EASILY LOCATED AND UTILIZED.
6. A RAIN-GAUGE SHALL BE MAINTAINED ON THE SITE TO MONITOR RAINFALL EVENTS.
7. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED WITHIN 24 HOURS AFTER EACH ½-INCH RAINFALL EVENT AND AT LEAST ONCE A WEEK, AND IN ACCORDANCE WITH THE SWPPP AND ALL APPLICABLE STATE, FEDERAL, AND LOCAL REGULATION. ANY REQUIRED MAINTENANCE, REPAIRS, OR NECESSARY MODIFICATIONS TO THE EROSION CONTROL PLAN SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE SILT FENCE OR EROSION BARRIER.
8. ALL AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF 7 DAYS OR MORE SHALL BE STABILIZED WITH SEED AND MULCH OR OTHER ACCEPTABLE MEANS. FOR VEGETATED AREAS, PERMANENT VEGETATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.
9. STOCKPILES AND EXCAVATED MATERIALS SHOULD NOT BE PLACED NEAR WETLANDS OR WATER BODIES AND SHOULD BE ENCIRCLED WITH PROPER SEDIMENT CONTROLS. STOCKPILES SHOULD BE STABILIZED IF THEY ARE NOT TO BE USED FOR A PERIOD OF 7 DAYS OR MORE.
10. SPECIAL CONSIDERATIONS SHOULD BE TAKEN WHEN CLAYS, MUCK, SILTS, AND OTHER FINE PARTICLES ARE PRESENT ON SITE AS THEY PRESENT A HIGHER RISK FOR EROSION AND TURBIDITY PROBLEMS. REFER TO GEOTECHNICAL REPORT AND RECOMMENDATIONS.
11. UPON COMPLETION OF WORK, THE ENTIRE PROJECT SITE AND ADJACENT AREAS AFFECTED BY CONSTRUCTION ACTIVITIES SHALL BE THOROUGHLY CLEANED AND DISTURBED AREAS RESTORED. THE CONTRACTOR SHALL AT A MINIMUM CLEAN ALL INSTALLED AND PRE-EXISTING STRUCTURES AND PIPELINES AFFECTED BY CONSTRUCTION; CLEAR ACCUMULATED SILTS FROM PONDS, SWALES, AND OTHER DRAINAGE FACILITIES; AND CLEAN ALL SIDEWALKS, GUTTERS, AND PAVED AREAS.

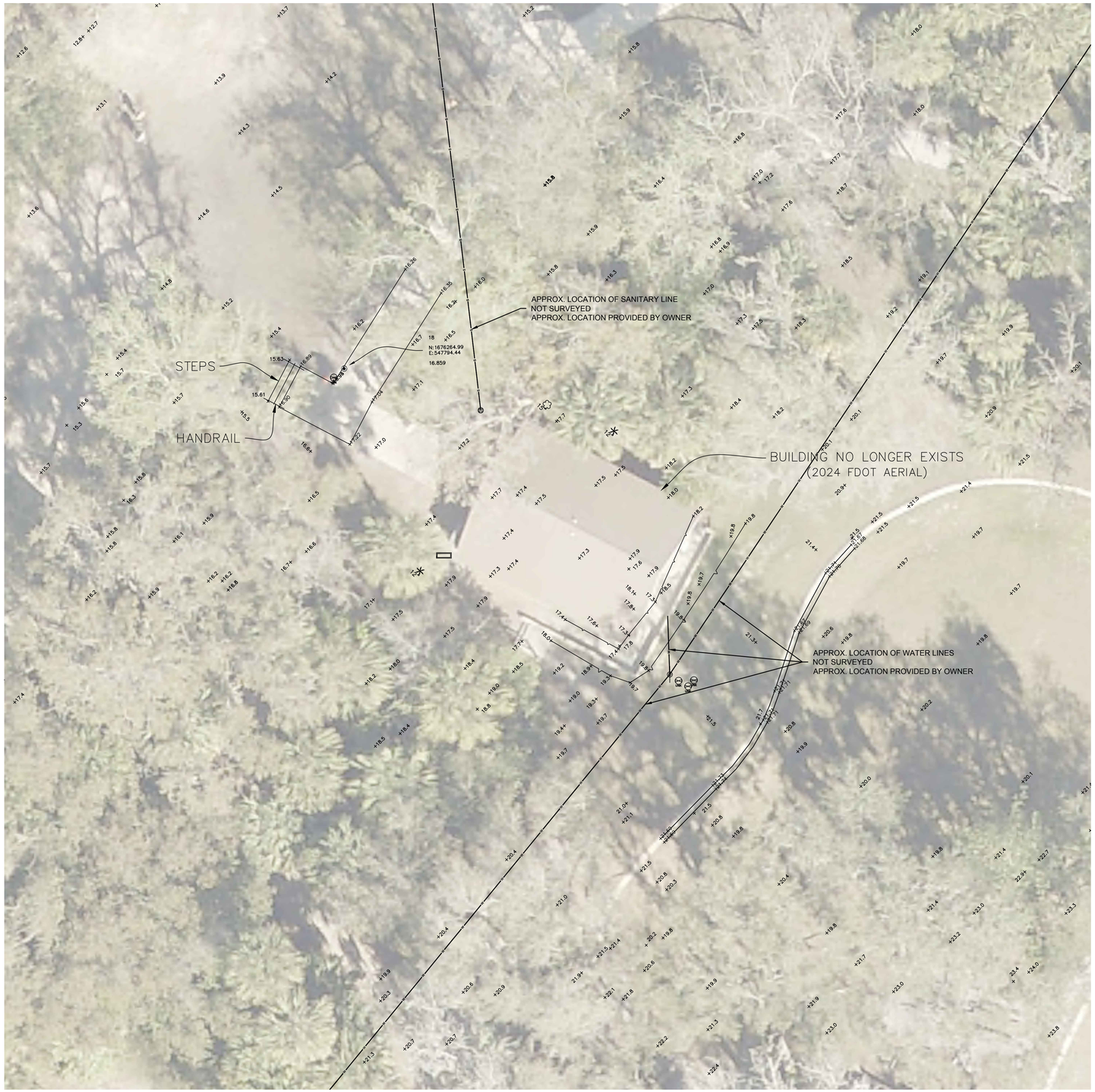
INSPECTION AND MAINTENANCE:
1. THE CONTRACTOR SHALL DESIGNATE A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS. THE SWPPP SHALL INCLUDE THE NAME AND PHONE NUMBER OF THE CONTRACTOR'S DESIGNATED REPRESENTATIVE.
2. THE CONTRACTOR OR OTHER DESIGNATED INDIVIDUAL IS REQUIRED TO INSPECT AND MAINTAIN ALL CONTROLS WEEKLY AND WITHIN 24 HOURS AFTER A RAINSTORM EVENT IN EXCESS OF 1/2-INCH.
3. THE DESIGNATED INSPECTOR MUST BE A QUALIFIED EROSION AND SEDIMENT CONTROL INSPECTOR AS DEFINED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
4. THE INSPECTOR SHALL BE RESPONSIBLE FOR MEETING THE FOLLOWING OBJECTIVES AT A MINIMUM:
- CONFIRM THAT ALL EROSION AND SEDIMENT CONTROL MEASURES AND OTHER BMPS HAVE BEEN PROPERLY INSTALLED AND MAINTAINED PER THE APPROVED EROSION CONTROL PLAN AND SWPPP.
- CONFIRM THAT EROSION IS BEING EFFECTIVELY CONTROLLED.
- CONFIRM THAT OFFSITE SEDIMENTATION IS BEING PREVENTED.
- CONFIRM THAT NO TURBIDITY IS BEING GENERATED IN RECEIVING WATERS.
5. THE INSPECTOR SHALL IMMEDIATELY RECORD AND REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. INSPECTION REPORTS SHALL BE SIGNED BY THE INSPECTOR AND CONTRACTOR AND RETAINED ON SITE FOR FUTURE REFERENCE AS NEEDED.
6. INSPECTION REPORT FORMS SHALL BE A PART OF THE SWPPP AND SAMPLE FORMS CAN BE OBTAINED FROM THE FDEP.

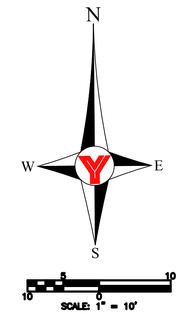
PROTECTION OF WETLANDS AND SURFACE WATERS:
1. IT SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE WATER QUALITY OF DOWNSTREAM OR ADJACENT WETLANDS AND SURFACE WATERS IS PROTECTED DURING CONSTRUCTION ACTIVITIES. IN NO CASE SHALL TURBID OR POLLUTED WATERS BE DISCHARGED TO ON OR OFF SITE WETLANDS OR OTHER SURFACE WATERS.
2. WHERE APPROPRIATE OR WHEN REQUIRED BY STATE, FEDERAL OR LOCAL AGENCIES, DOWNSTREAM RECEIVING WATERS SHALL BE MONITORED THROUGHOUT CONSTRUCTION FOR TURBIDITY AND PH. A BACKGROUND SAMPLE SHALL BE TAKEN PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. EROSION CONTROL AND TURBIDITY CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH THE SWPPP. GENERAL BEST MANAGEMENT PRACTICES INCLUDE THE FOLLOWING:
- EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION;
- PERIMETER EROSION CONTROL AND TURBIDITY CONTROL DEVICES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE, FINAL STABILIZATION IS ESTABLISHED AND THE SITE INSPECTOR HAS APPROVED THEIR REMOVAL;
- EROSION CONTROL INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY UPON INSTALLATION OF THE STORMWATER STRUCTURES AND SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. NO ACTIVITY, INCLUDING BUT NOT LIMITED TO CLEARING AND GRUBBING, GRADING, STORAGE OF EQUIPMENT OR MATERIALS, OR ANY OTHER LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES, SHALL OCCUR WITHIN THE PROTECTIVE BUFFER AREAS OF WETLANDS AND SURFACE WATERS AS DELINEATED ON THESE PLANS OR AS REQUIRED BY ANY STATE, FEDERAL OR LOCAL AGENCIES.
5. STOCKPILES AND EXCAVATED MATERIALS SHOULD NOT BE PLACED NEAR WETLANDS OR WATER BODIES AND SHOULD BE ENCIRCLED WITH PROPER SEDIMENT CONTROLS.
6. PARKING AND MAINTENANCE AREAS FOR CONSTRUCTION EQUIPMENT SHALL BE DESIGNED TO PREVENT OIL, GREASE AND LUBRICANTS FROM DISCHARGING INTO SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTOR SHALL IMPLEMENT EFFECTIVE MEANS OF PREVENTING SUCH DISCHARGES, SUCH AS:
- ENCIRCLE AREAS WITH SILT FENCES OR SILT DIKES;
- CONSTRUCT SEDIMENT SUMPS WITHIN THE AREAS IN ORDER TO CONTAIN SPILLS;
- UTILIZE ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.
7. INSPECT AND MAINTAIN ALL EROSION AND TURBIDITY CONTROLS WEEKLY AND WITHIN 24 HOURS AFTER A RAINSTORM EVENT IN EXCESS OF 1/2-INCH.

CONTROL OF WIND EROSION:
1. FUGITIVE DUST SHALL NOT BE ALLOWED TO LEAVE THE SITE WHILE UNDER CONSTRUCTION.
2. BARE EARTH AREAS AND STOCKPILES SHALL BE WATERED, COVERED, OR VEGETATED TO PREVENT EROSION AND FUGITIVE DUST EMISSIONS. WATERING SHALL BE DONE DAILY, OR AT AN INTERVAL APPROPRIATE FOR MAINTAINING DUST CONTROL BUT SHALL NOT CAUSE WATER EROSION OR TURBIDITY IN NEARBY WATER BODIES OR STORM SYSTEMS.
3. CONSTRUCTION VEHICLE SPEED SHALL BE LIMITED IN CASES WHERE BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED.
4. FOR AREAS TO ULTIMATELY BE VEGETATIVE, PERMANENT VEGETATION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF FINAL GRADING.
5. THE CONTRACTOR SHALL IMPLEMENT OTHER MEANS OF DUST CONTROL, SUCH AS DUST CONTROL FENCES, AS NECESSARY WHEN WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR FUGITIVE DUST EMISSIONS.

QUALITY CONTROL TESTING, INSPECTIONS AND APPROVALS
1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO UNDERSTAND AND COMPLY WITH THE TESTING REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS AS WELL AS ANY AND ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT, TO PERFORM ALL NECESSARY QUALITY CONTROL TESTING, AND TO OBTAIN ANY NECESSARY INSPECTIONS AND APPROVALS OF WORK PERFORMED OR MATERIALS UTILIZED.
2. THE CONTRACTOR SHALL PAY ALL COSTS ASSOCIATED WITH TESTING, INSPECTION, AND APPROVAL OF WORK AND SHALL PROVIDE TO THE OWNER AND ENGINEER THE REQUIRED CERTIFICATES FOR TESTING, INSPECTIONS, OR APPROVALS. ALL TEST RESULTS (PASSING AND FAILING) SHALL BE PROVIDED TO THE OWNER AND ENGINEER IMMEDIATELY UPON RECEIPT.
3. TESTING SHALL INCLUDE AT A MINIMUM:
   a. CONCRETE AND ASPHALT PAVING QUALITY CONTROL TESTING INCLUDING DESIGN MIX REVIEW, MATERIALS, FIELD SLUMP AND AIR CONTENT, AND FIELD AND LAB CURED STRENGTH SAMPLES AND TESTING;
   b. PIPING AND STRUCTURAL EXCAVATION, BEDDING AND BACKFILL MATERIALS AND DENSITY TESTS;
   c. DETERMINATION OF COMPACTIVE EFFORT NEEDED FOR COMPLIANCE WITH THE DENSITY REQUIREMENTS;
   d. PRESSURE AND LEAKAGE TESTING AS REQUIRED FOR WATER DISTRIBUTION, SANITARY SEWER, AND STORM SEWER LINES.
   e. FOR ALL INSTALLED GRAVITY SANITARY SEWERS AND GRAVITY STORM SEWERS, THE CONTRACTOR SHALL HAVE INTERNAL TELEVISION INSPECTION PERFORMED BY A QUALIFIED SUBCONTRACTOR.
4. THE CONTRACTOR SHALL CLEAN ALL INSTALLED LINES AND STRUCTURES PRIOR TO ANY TESTING PROCEDURES.
5. ANY DESIGN OR TESTING LABORATORY UTILIZED BY THE CONTRACTOR SHALL BE AN INDEPENDENT LABORATORY ACCEPTABLE TO THE OWNER AND THE ENGINEER, AND SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO BEGINNING WORK. THE LAB SHALL COMPLY WITH THE LATEST EDITION OF THE "RECOMMENDED REQUIREMENTS FOR INDEPENDENT LABORATORY QUALIFICATION", PUBLISHED BY THE AMERICAN COUNCIL OF INDEPENDENT LABORATORIES.

FDOT SPECIFIC NOTES
1. ANY NEW PROPOSED PLAN SHALL INCLUDE CROSS SEC





LEGEND

- NAIL AND DISC SET
- CLEANOUT
- FAUCET OR HOSE BIB
- TREE PALM
- TREE OAK
- SERVICE BOX ELECTRIC
- VALVE COVER UNKNOWN
- TOB / TOE
- CONCRETE

TREE LEGEND
TREE CEDAR
TREE OAK
TREE PALM
TREE PINE

ABBREVIATIONS

CONC.	CONCRETE
ELEV	ELEVATION
ID	IDENTIFICATION
LB	LICENSED BUSINESS
LS	LICENSED SURVEYOR
MHW	MEAN HIGH WATER
M/M	MEET AND MATCH EXISTING ELEVATION
PLS	PROFESSIONAL LAND SURVEYOR
PRM	PERMANENT REFERENCE MONUMENT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
SIR	SET IRON ROD
TBM	TEMPORARY BENCH MARK
TOB	TOP OF BANK
#WB-#	WETLAND FLAG (SEE NOTE #21)
+ 00.0	SPOT ELEVATION
10	CONTOUR LINE
WET	JURISDICTIONAL WETLAND LINE

SYMBOL	REVISION	DATE
A		
B		

SYMBOL	REVISION	DATE
C		
D		

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DESIGNER :
DRAWN BY:
REVIEWED BY:
Consultant :

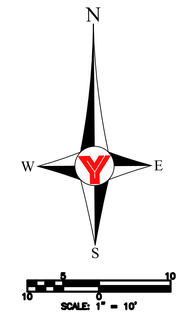
ISSUE DATE:
COMP. FILE No.:
STATE PROJECT No.:

PROFESSIONAL REGISTRATION

SHEET TITLE: EXISTING CONDITIONS

PROJECT TITLE: BLUE SPRING STATE PARK RESTROOM REPLACEMENT

SHEET NO.
C100



EROSION CONTROL LEGEND

SF	SILT FENCE PER DETAIL SHEET C500.0
✕	TREE REMOVAL

LEGEND

- NAIL AND DISC SET
- CLEANOUT
- FAUCET OR HOSE BIB
- TREE PALM
- TREE OAK
- SERVICE BOX ELECTRIC
- VALVE COVER UNKNOWN
- TOB / TOE
- CONCRETE

TREE LEGEND

	TREE CEDAR
	TREE OAK
	TREE PALM
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ABBREVIATIONS

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PRM	PERMANENT REFERENCE MONUMENT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
SIR	SET IRON ROD
TBM	TEMPORARY BENCH MARK
TOB	TOP OF BANK
#WB–#	WETLAND FLAG (SEE NOTE #21)
+ 99.9	SPOT ELEVATION
10	CONTOUR LINE
WET	JURISDICTIONAL WETLAND LINE

SYMBOL	REVISION	DATE
A		
B		

SYMBOL	REVISION	DATE
C		
D		

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REVIEWED BY:
Consultant :

ISSUE DATE:
COMP. FILE No.:
STATE PROJECT No.:

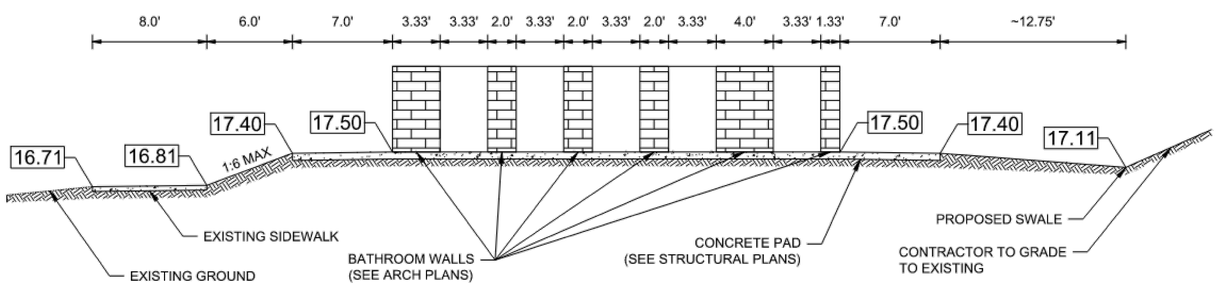
PROFESSIONAL REGISTRATION

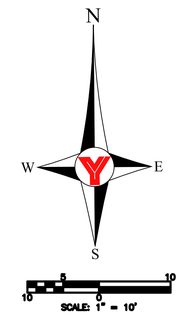
SHEET TITLE
DEMO AND EROSION CONTROL PLAN

PROJECT TITLE
BLUE SPRING STATE PARK
RESTROOM REPLACEMENT

SHEET NO.
C101

SECTION A-A (N.T.S.)





PROPOSED LEGEND

PROPOSED 6" CONCRETE SIDEWALK
(CONSTRUCT PER FDOT SPECIFICATION 522)

NOTE

IT IS THE INTENT OF THIS DESIGN TO MEET ALL APPLICABLE ADA STANDARDS. SHOULD CONDITIONS OBSERVED IN CONSTRUCTION NOT MEET ADA CRITERIA, CONSULT THE ENGINEER

LEGEND

- NAIL AND DISC SET
- CLEANOUT
- FAUCET OR HOSE BIB
- TREE PALM
- TREE OAK
- SERVICE BOX ELECTRIC
- VALVE COVER UNKNOWN
- TOB / TOE
- CONCRETE

TREE LEGEND	
	TREE CEDAR
	TREE OAK
	TREE PALM
	TREE PINE

ABBREVIATIONS

CONC.	CONCRETE
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PLS	PROFESSIONAL LAND SURVEYOR
PRM	PERMANENT REFERENCE MONUMENT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
SIR	SET IRON ROD
TBM	TEMPORARY BENCH MARK
TOB	TOP OF BANK
#WB-#	WETLAND FLAG (SEE NOTE #21)
x 90.5	SPOT ELEVATION
10	CONTOUR LINE
WET	JURISDICTIONAL WETLAND LINE

SYMBOL	REVISION	DATE
A		
B		

SYMBOL	REVISION	DATE
C		
D		

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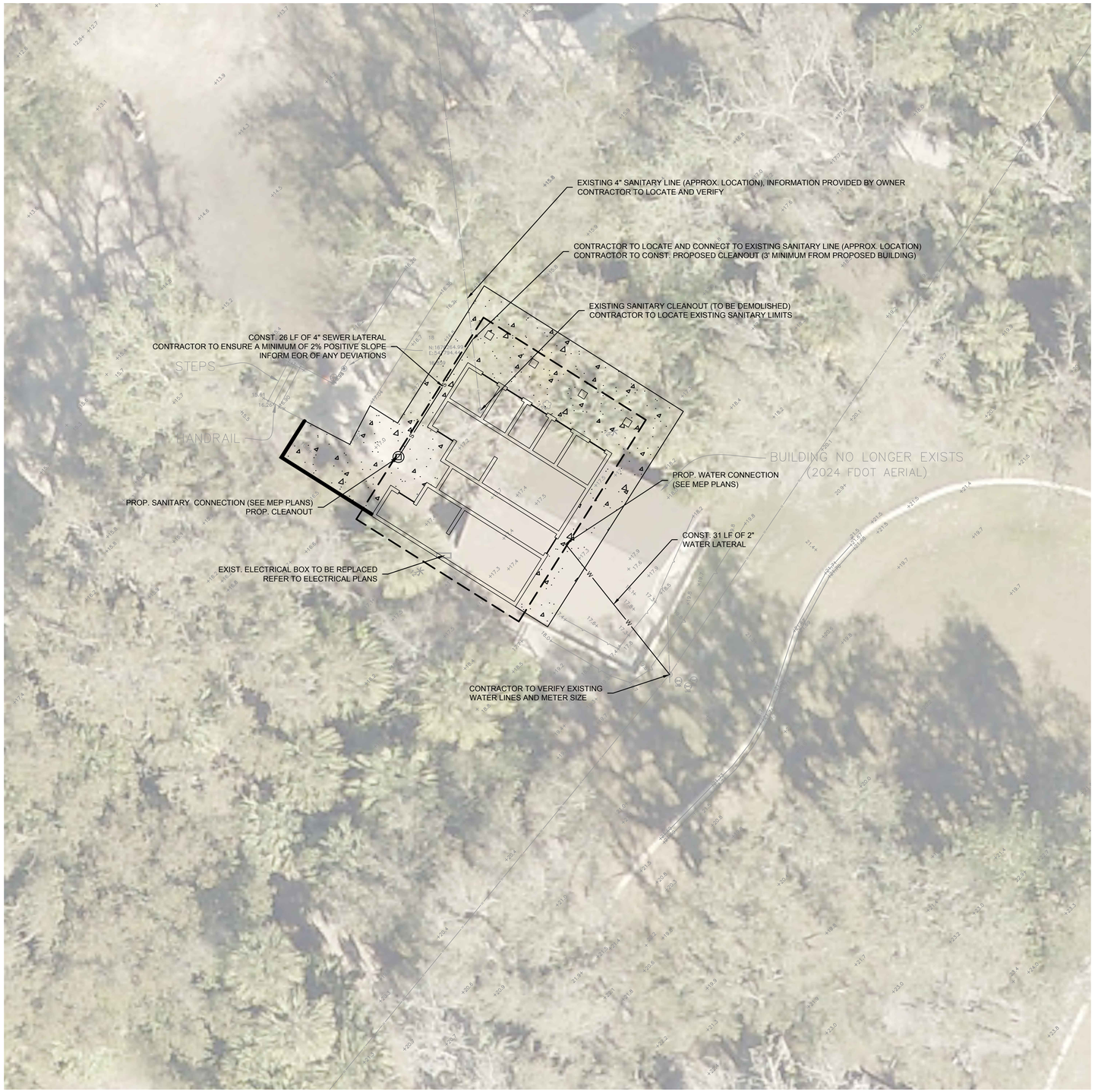
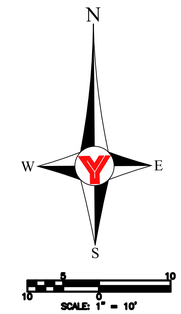
REVIEWED BY:
Consultant :
ISSUE DATE:
COMP. FILE No.:
STATE PROJECT No.:
PROFESSIONAL REGISTRATION

SHEET TITLE
SITE AND GRADING PLAN

PROJECT TITLE
BLUE SPRING STATE PARK
RESTROOM REPLACEMENT

SHEET NO.
C102





PROPOSED LEGEND

PROPOSED 6" CONCRETE SIDEWALK
(CONSTRUCT PER FDOT SPECIFICATION 522)

UTILITY NOTE:

CONTRACTOR TO VERIFY ALL UTILITY LINE LOCATIONS, SIZES, AND DIRECTIONAL FLOWS PRIOR TO CONSTRUCTION/DEMOLITION
CONTRACTOR TO NOTIFY ENGINEER OF LOCATED UTILITY LINES

LEGEND

- NAIL AND DISC SET
- CLEANOUT
- FAUCET OR HOSE BIB
- TREE PALM
- TREE OAK
- SERVICE BOX ELECTRIC
- VALVE COVER UNKNOWN
- TOB / TOE
- CONCRETE

TREE LEGEND	
	TREE CEDAR
	TREE OAK
	TREE PALM
	TREE PINE

ABBREVIATIONS

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PLS	PROFESSIONAL LAND SURVEYOR
PRM	PERMANENT REFERENCE MONUMENT
PSM	PROFESSIONAL SURVEYOR AND MAPPER
SIR	SET IRON ROD
TBM	TEMPORARY BENCH MARK
TOB	TOP OF BANK
#WB-#	WETLAND FLAG (SEE NOTE #21)
+69.0	SPOT ELEVATION
10	CONTOUR LINE
WET	JURISDICTIONAL WETLAND LINE

SYMBOL	REVISION	DATE
A		
B		

SYMBOL	REVISION	DATE
C		
D		

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Consultant :
ISSUE DATE:
COMP. FILE No.:
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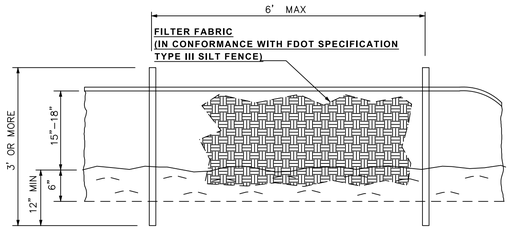
PROFESSIONAL REGISTRATION

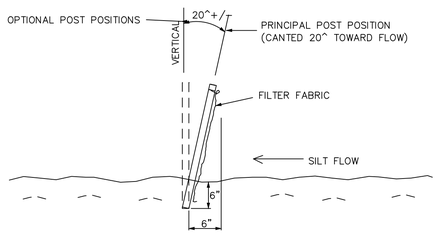
SHEET TITLE: UTILITY PLAN

PROJECT TITLE: BLUE SPRING STATE PARK RESTROOM REPLACEMENT

SHEET NO. C103



ELEVATION

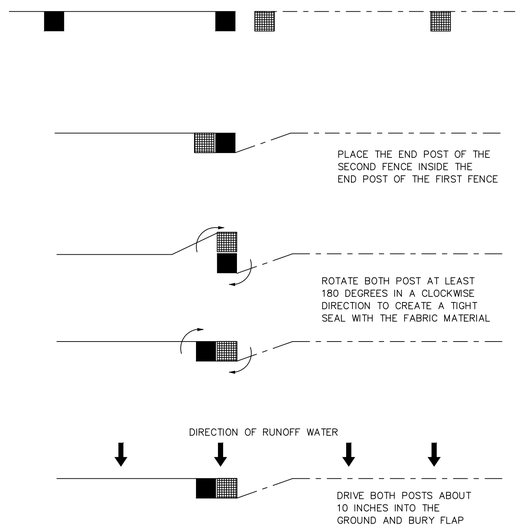


SECTION

NOTES:
1. THE FABRIC SHOULD FACE THE AREA OF CONSTRUCTION WITH THE STAKES ON THE OUTSIDE AWAY FROM CONSTRUCTION.
2. FABRIC MUST BE TRENCHED IN AND BACK FILLED. THIS CAN BE DONE WITH A TRENCHER, FRONT BUCKET, OR HAND.
3. FILTER FABRIC MUST BE TAUT.

TYPE III SILT FENCE

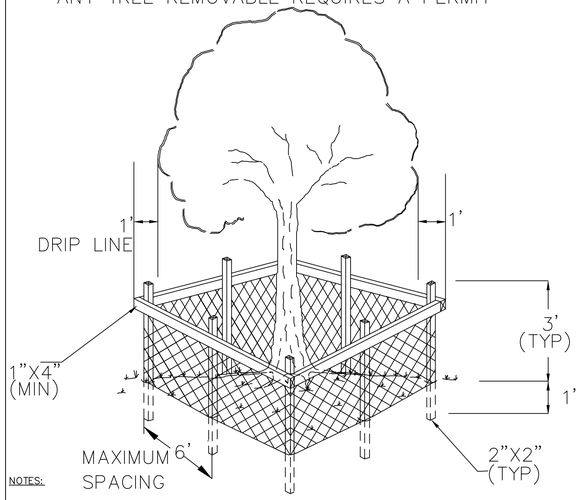
N.T.S.



ATTACHING TWO SILT FENCES

N.T.S.

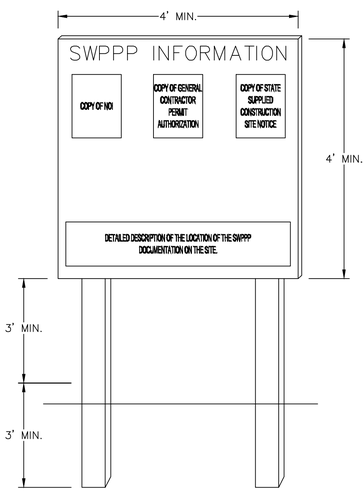
ANY TREE REMOVABLE REQUIRES A PERMIT



NOTES:
1. NO TREE SHALL BE REMOVED UNLESS SPECIFICALLY TAGGED FOR REMOVAL.
2. A PROTECTIVE BARRIER SHALL BE ERECTED AROUND ALL TREES AND NATIVE VEGETATION THAT ARE TO REMAIN PERMANENTLY ON-SITE.
3. ROOTS GREATER THAN 1" DIAMETER SHALL NOT BE CUT UNLESS OTHERWISE APPROVED.
4. TREE ROOTS ONE FOOT OUTSIDE OF BARRIER MUST COMPLY WITH SECTION 6300 SUBSECTION 6303(B) OF LARGO'S COMPREHENSIVE DEVELOPMENT CODE (CDC).
5. STOCKPILED MATERIALS OR UNNECESSARY VEHICULAR TRAFFIC SHALL NOT BE ALLOWED OVER ANY TREE ROOTS SYSTEM.
6. PROTECTIVE BARRIERS ARE TO BE CONSTRUCTED USING NO LESS THAN 2"X2" LUMBER FOR THE UPRIGHTPOSTS. UPRIGHT POSTS ARE TO BE AT LEAST 4 FEET IN LENGTH WITH A MINIMUM OF ONE FOOT ANCHORED IN THE GROUND AND THREE FEET ABOVE GROUND. UPRIGHT POSTS ARE TO BE PLACED AT A MAXIMUM DISTANCE OF 6 FEET APART. HORIZONTAL RAILS ARE TO BE CONSTRUCTED USING NO LESS THAN 1"X4" LUMBER AND SHALL BE SECURELY ATTACHED TO THE TOP OF THE UPRIGHT POSTS. A PVC- TYPE SAFETY FENCE THE HEIGHT OF THE BARRIER SHALL BE ATTACHED TO THE UPRIGHT POSTS, THE TOP RAIL, AND THE GROUND, WITHFASTENERS A MAXIMUM OF 8 INCHES APART. BARRIERS SHALL EXTEND AT LEAST ONE FOOT BEYOND THE DRIP LINE OF ALL PROTECTED TREES ON THE PROPERTY AND SHALL BE AT LEAST THREE FEET HIGH.

TREE PROTECTION

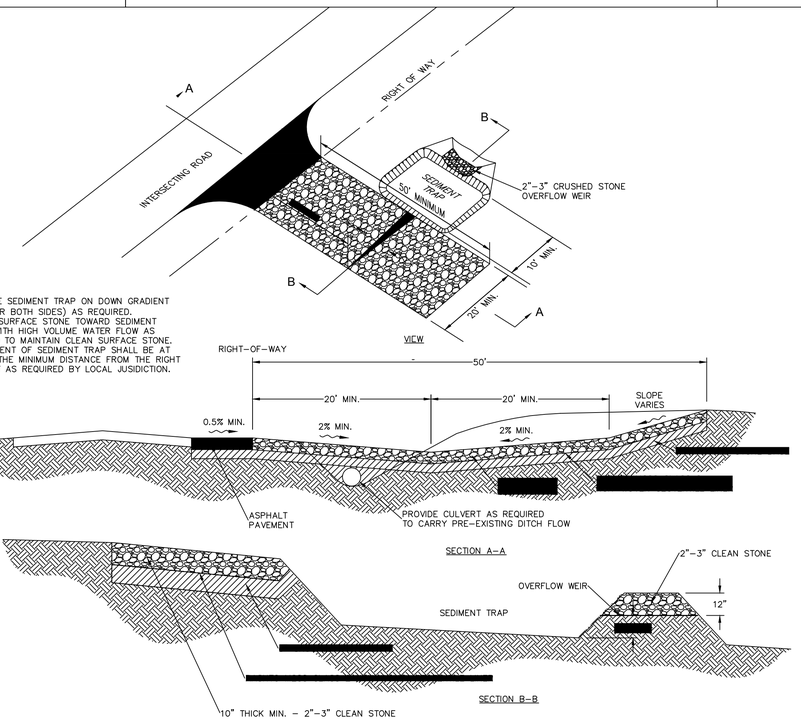
SE-12 N.T.S.



NOTES:
1. "SWPPP INFORMATION" MUST BE DISPLAYED PROMINENTLY ACROSS THE TOP OF THE SIGN, AS SHOWN IN THE DETAIL.
2. SIGN TO BE CONSTRUCTED OF A RIGID MATERIAL, SUCH AS PLYWOOD OR OUTDOOR SIGN BOARD. SIGN MUST BE CONSTRUCTED IN A MANNER TO PROTECT DOCUMENTS FROM DAMAGE DUE TO WEATHER (WIND, SUN, MOISTURE, ETC.).
3. THE SWPPP INFORMATION SIGN MUST BE LOCATED NEAR THE ENTRANCE/EXIT OF THE SITE, SUCH THAT IT IS ACCESSIBLE/VIEWABLE BY THE GENERAL PUBLIC, BUT NOT OBSTRUCTING VIEWS AS TO CAUSE A SAFETY HAZARD.
4. ALL POSTED DOCUMENTS MUST BE MAINTAINED IN A CLEARLY READABLE CONDITION AT ALL TIMES THROUGHOUT CONSTRUCTION AND UNTIL THE NOTICE-OF-TERMINATION (NOT) IS FILED FOR THE PERMIT.
5. CONTRACTOR SHALL POST OTHER STORM WATER AND/OR EROSION AND SEDIMENT CONTROL RELATED PERMITS ON THE SIGN AS REQUIRED BY THE LOCAL AGENCY.
6. SIGN SHALL BE LOCATED OUTSIDE OF PUBLIC RIGHT-OF-WAY AND EASEMENTS UNLESS APPROVED BY THE GOVERNING AGENCY.
7. CONTRACTOR IS RESPONSIBLE FOR ENSURING STABILITY OF THIS SWPPP INFORMATION SIGN.

SWPPP INFORMATION SIGN

N.T.S.



NOTES:
1. PROVIDE SEDIMENT TRAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED.
2. FLUSH SURFACE STONE TOWARD SEDIMENT
3. TRAP WITH HIGH VOLUME WATER FLOW AS NEEDED TO MAINTAIN CLEAN SURFACE STONE. PLACEMENT OF SEDIMENT TRAP SHALL BE AT LEAST THE MINIMUM DISTANCE FROM THE RIGHT OF WAY AS REQUIRED BY LOCAL JUSIDICTION.

CONSTRUCTION ENTRANCE

N.T.S.

SYMBOL	REVISION	DATE	SYMBOL	REVISION	DATE
A			C		
B			D		

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STATE PROJECT No.:
DESIGNER :
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REVIEWED BY:
Consultant :
PROFESSIONAL REGISTRATION

SHEET TITLE
EROSION CONTROL DETAILS

PROJECT TITLE
BLUE SPRING STATE PARK
RESTROOM REPLACEMENT

SHEET NO.
C500

NOTES:

1. Shop Drawings are required.

2. Work with Specification 515.

3. Materials:

A. Pan Head Set Screws: Aluminum Alloy 2024-T4 or 7075-T73 or Stainless Steel (SS) Type 316 or 18-8 Alloy.

B. Base Plates and Cap Plates: ASTM B209, Alloy 6061-T6

C. Structural Pipe Tube and Bars: ASTM B221 or ASTM B429, Alloy 6061-T6

D. End Rails 90° bends and corner bends with a maximum 4 foot spacing: Alloy 6063-T5 is permitted.

RAILING MEMBER DIMENSIONS TABLE			
MEMBER	DESIGNATION	OUTSIDE DIMENSION	WALL THICKNESS
Posts	2" NPS (Sch. 40)	2.375"	0.154"
Rails	2" NPS (Sch. 40)	2.375"	0.154"
Rail Joint/Splice Sleeves	1½" NPS (Sch. 40)	1.900"	0.145"
Handrails Joint/Splice Sleeves	1" NPS (Sch. 40) 1.50 OD×0.125 Wall	1.315" 1.500"	0.133" 0.125"
Handrails	1½" NPS (Sch. 40)	1.900"	0.145"
Handrail Support Bar	1" Ø Round Bar	1.000"	N/A

E. Galvanized Steel Fasteners:
a. Bolts: ASTM F3125 Type 1 or ASTM F1554 Grade 36
b. Attaching Bolts: ASTM F1554 Grade 36 fully threaded rods
c. Hex Nuts: ASTM A563
d. Flat Washers: ASTM F436

F. Aluminum Shims: ASTM B209, Alloy 6061

G. Bearing Pads: Plain, Fabric Reinforced, or Fabric Laminated meeting requirements of Specifications 515 & 932.

4. Fabrication:

A. Place expansion joints at a maximum of 30'-0"spacing
B. Field splices are similar to the expansion joint detail and may be approved by the Engineer to facilitate handling, but the rail must be continuous across a minimum distance of two posts.
C. Bending machine rollers are to be adjusted to make the railing continuous for unforeseen field adjustments
D. Corners and changes in tangential longitudinal alignment may be made continuous with a 9" bend radius or terminated at adjoining sections with a standard end hood when handrails are not required.
E. For changes in tangential longitudinal alignment greater than 45°, position posts a maximum of 2'-0" each side of the alignment radius.
F. For changes in tangential longitudinal alignment greater than 45°, position posts a maximum of 2'-0" each side of the corner, not at the corner apex.

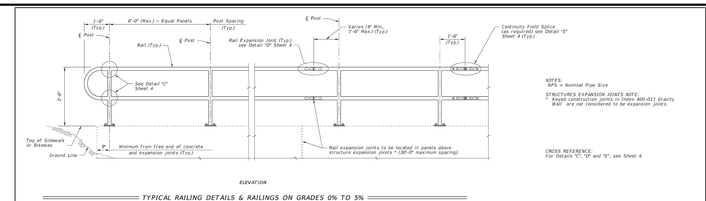
5. Handrails are required and must be continuous at landings for:

A. Grades Steeper than 5%
B. Three or more steps

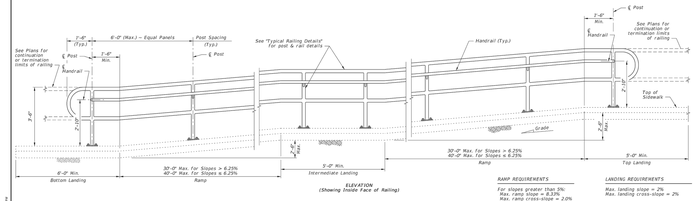
6. Cutting of reinforcing steel is permitted for post installed anchor bolts.

LAST REVISION	SYMBOL	DESCRIPTION:
11/01/18	A	

FDOT FY 2026-27 STANDARD PLANS | PIPE GUIDERAIL (ALUMINUM) | INDEX 515-070 | SHEET 1 of 5



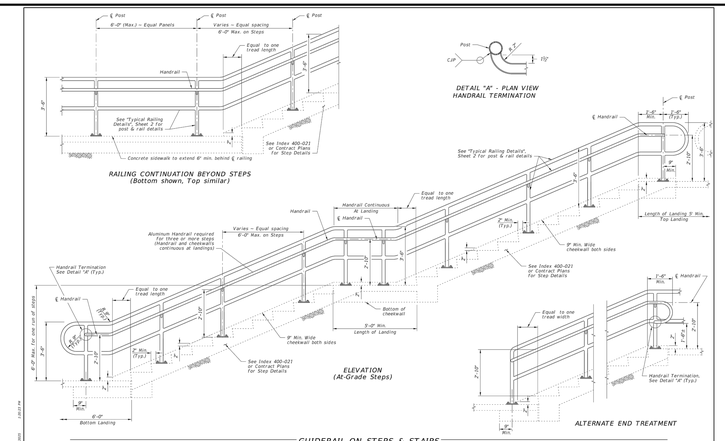
TYPICAL RAILING DETAILS & RAILINGS ON GRADES 0% TO 5%



RAILINGS ON GRADES STEEPER THAN 5% TO 8.33%

LAST REVISION	SYMBOL	DESCRIPTION:
11/01/17	B	

FDOT FY 2026-27 STANDARD PLANS | PIPE GUIDERAIL (ALUMINUM) | INDEX 515-070 | SHEET 2 of 5



GUIDERAIL ON STEPS & STAIRS

LAST REVISION	SYMBOL	DESCRIPTION:
11/01/17	C	

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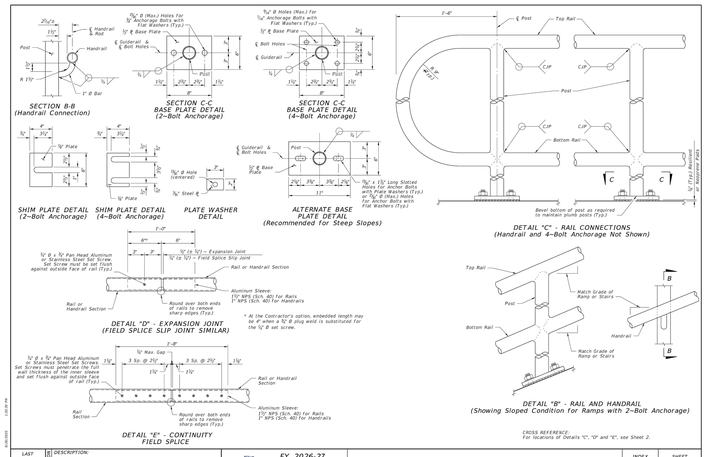

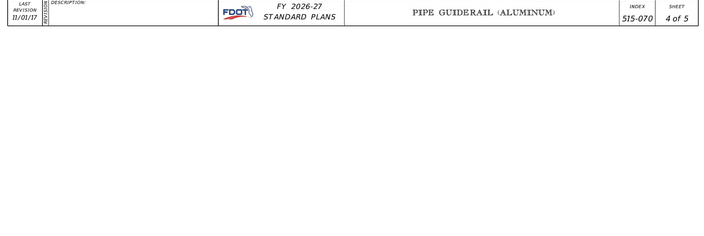

LAST REVISION	SYMBOL	DESCRIPTION:
11/01/17	D	

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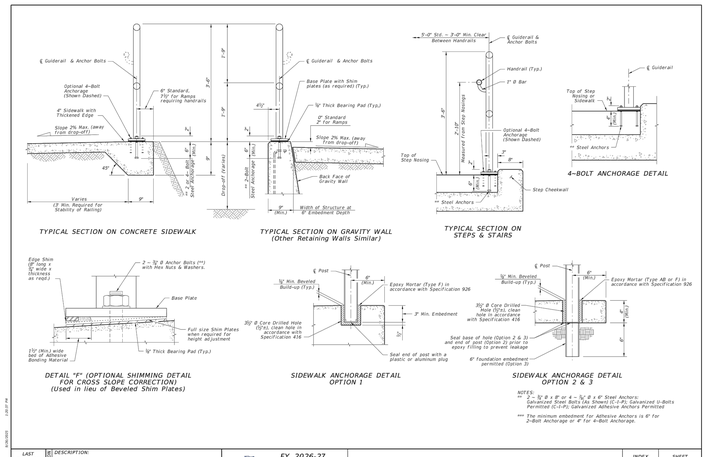

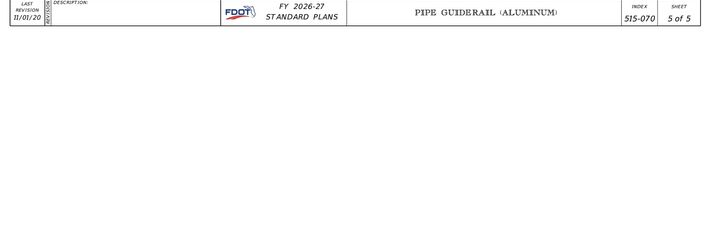

LAST REVISION	SYMBOL	DESCRIPTION:
11/01/20	E	

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SYMBOL	DATE	REVISION	SYMBOL	DATE	REVISION	DATE
A			C			
B			D			

ISSUE DATE:

COMP. FILE No.:

STATE PROJECT No.:

Department of Environmental Protection
Division of Recreation and Parks
Bureau of Design and Construction
3800 Commonwealth Blvd., Tallahassee, FL 32399 (850) 245-2157

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PROFESSIONAL REGISTRATION

SHEET TITLE

HANDRAIL DETAILS

PROJECT TITLE

BLUE SPRING STATE PARK
RESTROOM REPLACEMENT

SHEET NO.

C501