

HERNANDO COUNTY PARKS & RECREATION DEPARTMENT

16161 FLIGHT PATH DRIVE
 BROOKSVILLE FL 34604
 (OFFICE 352-754-4031)



JENKIN'S CREEK PEDESTRIAN BRIDGE REPLACEMENT

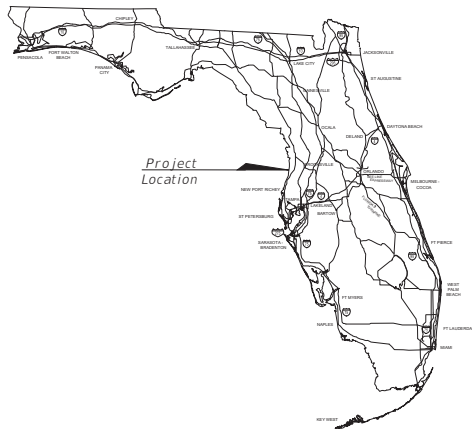
PURCHASE ORDER # 22000821
 CONTRACT # 18-R00045/PH, TASK ORDER #22
 PARCEL KEY: 375702
 PROJECT AREA: 0.38 ACRES

100% CONSTRUCTION PLAN REVIEW

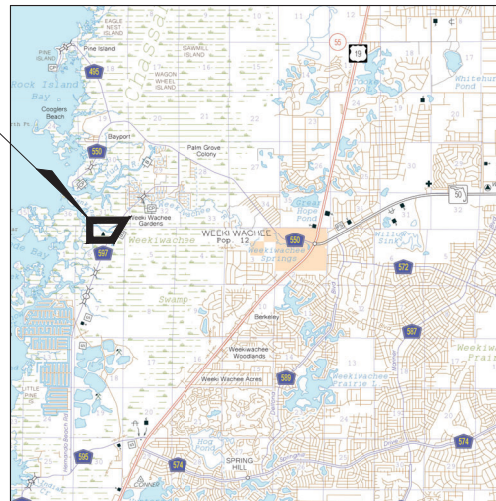
COASTAL ENGINEERING PROJECT #22056

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Project Location



SECTION 06, TOWNSHIP 23 S., RANGE 17 E.
 SECTION 31, TOWNSHIP 22 S., RANGE 17 E.

HERNANDO COUNTY COMMISSIONERS
 DISTRICT-1 ELIZABETH NARVERUD VICE CHAIRMAN
 DISTRICT-2 BRIAN HAWKINS
 DISTRICT-3 JOHN ALLOCCO CHAIRMAN
 DISTRICT-4 JERRY CAMPBELL
 DISTRICT-5 STEVE CHAMPION 2ND VICE CHAIRMAN

COMMUNITY SERVICES DIRECTOR
 CHRIS LINSBECK

PROJECT MANAGER
 ROB TALMAGE

PLANS PREPARED BY:



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NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION.

TECHNICAL SPECIFICATIONS

THE FOLLOWING ARE INCORPORATED HEREIN BY REFERENCE:

1. FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
2. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
3. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
4. F.D.O.T. UTILITY ACCOMMODATION MANUAL (2017).
5. HERNANDO COUNTY UTILITIES DEPARTMENT WATER, RECLAIMED WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION.
6. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS/ENGINEERING DIVISION FACILITY DESIGN GUIDELINES EDITION OCT 2008

DESCRIPTION	DATE
60% PLAN SUBMITTAL	03/13/2023
100% PLAN SUBMITTAL	04/14/2023
FINAL PLANS	

Brian M. Malmberg, State of Florida, Professional Engineer, License No. 59495. This item has been digitally signed and sealed by Brian M. Malmberg on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.



DESIGN ENGINEER BRIAN M. MALMBERG, P.E., REGISTRATION NO. .

GENERAL CONSTRUCTION NOTES

- 1. BENCHMARK DATUM IS NAVD 1988.
2. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADERS SHOWN ON THE PLANS AND TO TOLERANCES STATE HEREIN OR IN THE SPECIFICATIONS, REEFER TO THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION ON HORIZONTAL AND VERTICAL CONTROL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERLY CORRECTING THROUGH SINKS, ETC. FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHOWN TO BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.
4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COSTS WITH THE SAME MATERIAL, REPAIRS OR DAMAGED OR AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL GATHERY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES SUCH AS MAIL BOXES, SIGNS, FENCES, BELLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.
7. THE CONTRACTOR, PRIOR TO BIDDING THIS WORK, SHALL APPROVE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID ALL COSTS FOR SUCH CONSTRUCTION METHODS AND PROCEDURES THAT NEED TO BE TAKEN TO WORK AROUND SUCH APPURTENANCES.
8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.
9. CONSTRUCTION SHALL BE CARRIED OUT "TO THE DRY". THE CONTRACTOR SHALL VERIFY SITE CONDITIONS AND DETERMINE WHETHER THE EXTENT OF INVESTIGATION AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS, OR WORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.

MINIMUM REQUIRED AS-BUILTS

GENERAL

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPS INCLUDING, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATIONS OF RETENTION/CONTAINMENT AREAS, MITIGATION AREAS AND DETENTION/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TOPS OF SLOPES, POND BOTTOMS AND WATER LEVELS, ELEVATIONS AND DIMENSIONS OF POND CONTROL STRUCTURES, SPILLWAYS AND UNDERDRAINS; DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS, STORM PIPE SIZES, PIPE MATERIALS, AND PIPE DIAMETERS, FLOW LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATION OF WATER LINE CONNECTIONS, VALVES, BENCH, METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN; TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS.
2. ALL DIMENSIONS SHALL BE IN FEET COMMEASURED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE OFF A PERMANENT MARKER OR REFERENCE POINT.
3. FORM (4) SETS OF 24X36 SIGNED AND SEALED AS-BUILT DRAWINGS, ONE (1) CD WITH AUTOCAD AND Adobe PDF'S OF ALL SHEETS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

TECHNICAL SPECIFICATIONS

- ALL SITE AND UTILITY WORK PERFORMED ON THIS PROJECT SHALL BE GOVERNED BY THE APPLICABLE PROVISIONS OF HERNANDO COUNTY. IN ADDITION, THE FOLLOWING STANDARDS ARE INCORPORATED BY REFERENCE:
1. STANDARD FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES FOR HERNANDO COUNTY, LATEST EDITION.
2. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
3. FLORIDA DEPT. OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
4. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS / ENGINEERING FACILITY DESIGN GUIDELINES, LATEST EDITION.

HERNANDO COUNTY NOTES

- 1. A RIGHT-OF-WAY USE PERMIT IS REQUIRED FOR ANY WORK IN RIGHT-OF-WAY. APPROVED CONSTRUCTION PLANS AND NOT PLANS ARE REQUIRED TO APPLY FOR THE PERMIT.
2. THE CONTRACTOR IS TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST PROVIDE ALL RIGHT-OF-WAY SUBMITTALS TO DPW INSPECTOR FOR REVIEW AND APPROVAL. A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO PRE-CONSTRUCTION MEETING.
3. CONTRACTOR TO NOTIFY DPW INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY. DPW INSPECTOR MUST BE PRESENT FOR ALL PAVING / PAVING ON COUNTY OWNED INFRASTRUCTURE. CONTACT DPW INSTRUCTORS AT 352-734-0566 OR EMAIL TO DPWRECORDS@HERNANDOCOUNTY.US
4. CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO LOCAL EMERGENCY SERVICES DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPROVE NORMAL TRAFFIC FLOW.

ENVIRONMENTAL PROTECTION NOTES

- 1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN FOR CONSTRUCTION OF SUCH ACTIVITIES AS SPECIFIED HEREIN. CONTRACTOR REGULATORY AUTHORITIES, WHERE CONSTRUCTION IS NECESSARY ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS AND EROSION CONTROL MEASURES SHALL BE CONSIDERED LIMITED TO CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
2. CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.
3. STAKED OR FLOATING SILT SCREENS OR SYNTHETIC HAY BALES, AS APPROPRIATE, SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM ENTERING WETLANDS OR WATERBODIES. CONSTRUCTION IS COMPLETE AND FINISH GRADINGS / STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE OWNER AND PRIOR TO FINAL ACCEPTANCE.
4. ALL FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.
5. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST SURFACE WATER BODY OR WETLAND AREA, TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
6. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS. ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCHANCING UPON WETLAND AREAS OR SURFACE WATER BODIES. STOCKPILES IN PLACE AND UNTOUCHED FOR 7 DAYS OR MORE TO HAVE VEGETATIVE COVER TO PREVENT WIND EROSION AND SEDIMENT DISPERSION.
7. ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.
8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS (SIS) FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON SITE FOR CONSTRUCTION. STORAGE CONTAINERS, WHEN USED, SHALL BE INSPECTED REGULARLY FOR DAMAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPLICABLE AGENCIES.
10. CONTRACTOR SHALL NOT REMOVE TREES WITHOUT APPROVAL OF THE LOCAL GOVERNING JURISDICTION. TREE PROTECTION SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY.
11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT NECESSARILY REMOVE EXISTING VEGETATION OR A LATER DATE. THE CONTRACTOR SHALL NOT NECESSARILY REMOVE ADDITIONAL SOIL, SYNTHETIC HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM ROOTS, ETC.) TO THE LINES OF THE PROJECT.
12. FINAL ACCEPTANCE. ALL WALLS AND SURFACES 4' OR STEEPER SHALL BE SOODED. ALL OTHER UNPAVED SURFACES WHICH EXHIBIT EVIDENCE UNDER EROSION THAT CANNOT BE CONTROLLED BY OTHER MEASURES SHALL BE SOODED. ALL SOIL SHALL BE ARGENTINE BAHIA UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS. ALL SOODED SLOPES OVER 4:1, SHALL BE INSTALLED WITH SOO PEGS.
13. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND PERMANENTLY STABILIZED. SEE SWPP / CSDWP NOTES AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.
14. THE REMOVAL OF LITERAL SHELF VEGETATION (INCLUDING CATTAILS) FROM WET DETENTION POND IS PROHIBITED UNLESS OTHERWISE APPROVED BY THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT (SWFMD). REMOVAL INCLUDES DREDGING, THE APPLICATION OF HERBICIDES, CUTTING AND THE REMOVAL OF GRASS. GRASS AND OTHER VEGETATION WHICH IS NOT IDENTIFIED AS LITERAL SHELF WET DETENTION POND SHALL BE RESPONSIBLE TO THE REGULATION MANAGER OF SWFMD'S LOCAL OFFICE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENTATION CONTROL DEVICES WHEN NO LONGER NEEDED.

SPECIAL NOTES TO CONTRACTORS

- 1. WHERE TREE REMOVAL IS REQUIRED DUE TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AND DISPOSE OF THOSE TREES. THE COST FOR THIS REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS. TREE REMOVAL AND PROTECTION SHALL COMPLY WITH APPLICABLE CITY AND COUNTY CODES.
2. UNLESS SPECIFIED OTHERWISE, CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED ITEMS SHOWN WITHIN THE CONSTRUCTION PLANS.
3. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING SHALL BE LIMITED TO THE AREA SHOWN ON THE CONSTRUCTION PLANS.
4. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING IS THE RESPONSIBILITY OF THE CONTRACTOR. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE CLOSEST OPEN SPACE OWNED AND AVAILABLE FOR THE CONTRACTOR'S USE; HOWEVER, THE SITE MAY NOT BE CONTIGUOUS TO THE PROJECT AREA OR OF SUFFICIENT SIZE TO ACCOMMODATE THE ENTIRE PROJECT INVENTORY OF MATERIALS / EQUIPMENT.
5. CONTRACTOR SHALL COMPILE A PRE-CONSTRUCTION VIDEO FOR THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR/REPLACEMENT OF ANY DAMAGED TO FACILITIES CAUSED BY CONSTRUCTION OR CONSTRUCTION TRAFFIC.
6. ALL EQUIPMENT AND MATERIALS (INCLUDING EXCESS FUEL) TO BE REMOVED OR DEMOLISHED DURING THE CONSTRUCTION PROCESS, UNLESS NOTED TO BE SALVAGED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
7. A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS NOT PART OF THE PERMITTING OBTAINED WITH THIS PLAN SET. THEREFORE, THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621.1, F.A.C. FOR ADDITIONAL INFORMATION. THE INFORMATION PROVIDED IN THE SWPP NOTES AND DETAIL SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS PERMITTING UNDER CHAPTER 62-331, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.

- 8. HERNANDO COUNTY HAS AN NPDES ORDINANCE REQUIRING COMPLIANCE ON ALL CONSTRUCTION SITES. (CH. 28, ARTICLE 4, SEC. 28-341 TO 403)
9. CONSTRUCTION ACTIVITIES WILL TAKE PLACE IN AN ACTIVE DRAINAGE (SURFACE WATER) DRAINAGE. CONTRACTOR IS RESPONSIBLE TO SUFFICIENT THE WORK, PROVIDE TEMPORARY CHANNEL DIVERSIONS, BENCH, COFFERDAMS, AND/OR FLOWING DEWATER TO ACCOMMODATE FLOW. ADDITIONALLY, EROSION AND SEDIMENT CONTROL DEVICES NECESSARY TO PREVENT OPPOSITE DISCHARGE ARE ALSO REQUIRED.
10. A GEOTECHNICAL REPORT WAS PERFORMED BY TERRA FININDINGS OF THEIR SUBSURFACE INVESTIGATION AND RECOMMENDATIONS ARE PROVIDED IN THE ATTACHED REPORT. THE TESTS AND THEIR RECOMMENDATIONS ARE PART OF THE CONTRACT DOCUMENTS. CONTRACTOR TO READ AND FOLLOW THIS REPORT, INCLUDING, BUT NOT LIMITED TO, THE RECOMMENDATIONS OF A GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING OF RELATED CONSTRUCTION ACTIVITIES.
11. THE CONSULTANT, COASTAL ENGINEERING ASSOCIATES, INC., ASSUMES NO LIABILITY OR RESPONSIBILITY FOR THE GEOTECHNICAL RESULTS SHOWN ON THESE PLANS. A FULL REPORT IS AVAILABLE FROM THE ENGINEER.
12. RECOMMEND THAT THE CONTRACTOR DETERMINE THE ACTUAL GROUNDWATER LEVELS AND SURFICIAL WATER FLOW LEVELS AT THE TIME OF THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL DETERMINE GROUNDWATER AND SURFICIAL WATER FLOW ON THE PROPOSED CONSTRUCTION PROCEDURE. CONSIDERING THE PROJECT CONSISTS OF IMPROVEMENTS TO AN EXISTING DRAINAGE CATCH BASIN, THE CONTRACTOR SHOULD HAVE QUALIFIED PREVIOUS EXPERIENCE (DEWATERING, CONTROLLED SEEPAGE FORCES, AND GENERAL GROUNDWATER CONTROL) WITH SIMILAR TYPE PROJECTS.

GENERAL NOTES

- 1. STAKE OUT IN FIELD PRIOR TO BEGINNING WORK. SCHEDULE A FIELD MEETING WITH COUNTY STAFF AND ENGINEER TO APPROVED STAKED LOCATION. SOME FIELD ADJUSTMENT MAY OCCUR.
2. CONTRACTOR TO PROVIDE SUBMITTALS FOR APPROVAL ON ALL MATERIALS PRIOR TO CLEARING.
3. CONTRACTOR SHALL INSTALL SILT FENCE AND TURBIDITY BARRIERS PRIOR TO ANY CONSTRUCTION.
4. CONTRACTOR SHALL INSPECT AND SURVEY THE CONDITION OF THE EXISTING STRUCTURES, PRE AND POST CONSTRUCTION.
5. CONTRACTOR TO MONITOR VIBRATION LEVELS DURING THE OPERATION OF ANY EQUIPMENT CAUSING VIBRATION INCLUDING OF TIMBER PILE DRIVING AND EMBANKMENT CONSTRUCTION.
6. EXISTING BRIDGE PIERS SHALL BE CUT 2' - 0" BELOW EXISTING GRADE. PILES MAY BE EXTRACTED/PULLED IF EXTRACTION CAN BE ACCOMPLISHED WITHOUT CREATING ANY DAMAGE TO THE EXISTING CREEK BED.
7. THE CONTRACTOR SHALL PROVIDE AN EROSION, SEDIMENTATION, AND POLLUTION PREVENTION PLAN, AND PROVIDE CONTROL DEVICES INCLUDING MONITORING, REPORTING, AND MAINTENANCE.
8. THE FOLLOWING FERRARI AND STATE LISTED ANIMAL SPECIES COULD INHABIT OR MIGRATE THROUGH THE CONSTRUCTION AREA. WEST INDIAN MANATEE, AND MARSH TURTLES. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED AND THREATENED SPECIES AND STATE LISTED SPECIES OF SPECIAL CONCERN. SHOULD THESE SPECIES BE ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER WITHIN 24 HOURS OF EACH ENCOUNTER.
9. ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY THE CONTRACTOR OR ANY SUB-CONTRACTOR SHALL BE RESTORED TO ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
10. CONSTRUCTION WORK HOURS SHALL BE FROM 7:00 AM TO SUNSET SEVEN DAYS A WEEK.
11. CONTRACTOR SHALL ADHERE TO ALL PERMIT REQUIREMENTS AND FEDERAL, STATE, AND LOCAL REGULATIONS.



STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

- THE PERMITTEE SHALL COMPLY WITH THE FOLLOWING CONDITIONS INTENDED TO PROTECT MANATEES FROM DIRECT PROJECT EFFECTS:
a. ALL PERSONNEL ASSOCIATED WITH THE PROJECT SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES, AND THE NEED TO AVOID COLLISIONS WITH AND INJURY TO MANATEES. THE PERMITTEE SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARBORING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT, THE ENDANGERED SPECIES ACT, AND THE FLORIDA MANATEE SANCTUARY ACT.
b. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT "IDLE SPEED/NO WAKE" AT ALL TIMES WHILE IN THE IMMEDIATE AREA AND WHILE IN THE WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR-FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
c. SILLATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED OR ENTRAPPED. BARRIERS MUST NOT IMPEDIE MANATEE MOVEMENT.
d. ALL ON-SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER-RELATED ACTIVITIES FOR THE PRESENCE OF MANATEES. ALL IN-WATER OPERATIONS, INCLUDING VESSELS, MUST BE SHUTDOWN IF A MANATEE(S) COMES WITHIN 50 FEET OF THE OPERATION. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50-FOOT RADIIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF THE OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR MARKSED INTO LEAVING.
e. ANY COLLISION WITH OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) HOTLINE AT 1-888-404-3922. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-771-3136) FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) FOR SOUTH FLORIDA. AND TO FWCA AT fwrc@fldfw.com.
f. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL IN-WATER PROJECT ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE PERMITTEE UPON COMPLETION OF THE PROJECT. TEMPORARY SIGNS THAT HAVE ALREADY BEEN APPROVED FOR THIS USE BY THE FWC MUST BE USED. ONE SIGN WHICH READS CAUTION: BOATERS MUST BE POSTED. A SECOND SIGN MEASURING AT LEAST 8" x 11" EXPLAINING THE REQUIREMENTS FOR "IDLE SPEEDING WAKE" AND THE SHUT DOWN OF IN-WATER OPERATIONS MUST BE POSTED BY A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER-RELATED ACTIVITIES. THESE SIGNS CAN BE VIEWED AT fwrc.com/verobeach. QUESTIONS CONCERNING THESE SIGNS CAN BE SENT TO THE EMAIL ADDRESS LISTED ABOVE.

PRE-CONSTRUCTION VIDEO

- 1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT TO PERFORM COLOR AUDIO VIDEO RECORDING OF THE PROJECT. PRE-CONSTRUCTION AS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH TO THE OWNER A COPY OF A CONTINUOUS COLOR AND AUDIO VIDEO RECORDING OF THE PROJECT SITE.
2. THE OWNER RESERVES THE RIGHT TO REQUEST THE AUDIO VIDEO RECORDING BECAUSE OF POOR QUALITY, UNINTELLIGIBLE AUDIO OR UNCONTROLLED PAN OR ZOOM. ANY VIDEO REQUESTED BY THE OWNER SHALL BE RE-VIDEOED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL SUBMIT ONE (1) DVD TO THE OWNER FOR FORMAT AND CONTENT APPROVAL PRIOR TO THE START OF ANY WORK.
3. EXECUTION. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, EQUIPMENT OR MATERIAL, THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION SURVEY OF THE EXISTING SITE AREA INCLUDING THE ENTIRE PARK AREA AND ANY AREA WHICH HAS THE POTENTIAL TO BE DISTURBED BY THE CONTRACTOR'S OPERATIONS. SPECIFIC AREAS OF THE PROJECT INCLUDE, BUT ARE NOT LIMITED TO:
a. ALL AREAS TO BE ENTERED BY VEHICLES OR EQUIPMENT, INCLUDING CREEK AREAS TO BE ACCESS BY THE WATERWAYS.
b. AREAS AND STRUCTURES (I.E. PIERS, DOCKS, BRIDGES, ETC.) TO BE REMOVED AND RECONSTRUCTED.
c. PAVED AND UNPAVED AREAS WHICH WILL BE ENTERED BY VEHICLES OR EQUIPMENT.
d. OTHER AREAS THAT MAY BE IMPACTED BY THE WORK, INCLUDING WORK STAGING AREAS AND FIELD OFFICES, AS DIRECTED BY THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIMELY EXECUTION OF THE PRE-CONSTRUCTION AUDIO-VIDEO SURVEY. ITS VANTAGE POSITS, AND QUALITY. THE CONTRACTOR SHALL COOPERATE WITH THE PHOTOGRAPHER'S WORK AND PROVIDE REASONABLE AUXILIARY SERVICES AS REQUESTED, INCLUDING ACCESS AND USE OF TEMPORARY FACILITIES INCLUDING TEMPORARY LIGHTING.
5. SUBMITTED DVDS SHALL BE REVIEWED AND APPROVED BY THE OWNERS WITHIN FIVE (5) DAYS OF SUBMITTAL OF A SATISFACTORY SURVEY. SHOULD THE DVD NOT PROVIDE ADEQUATE COVERAGE TO FULLY ILLUSTRATE THE PHYSICAL CONDITION OF THE WORK AREA OR NOT BE IN COMPLIANCE WITH THE SPECIFICATIONS, PROJECT AREAS SHALL BE RE-SURVEYED PRIOR TO THE INITIATION OF CONSTRUCTION AT THE PROJECT SITES, WITH NO ADDITIONAL COST TO THE OWNER.
6. A CUMULATIVE INDEX CORRELATING THE VARIOUS SEGMENTS OF THE VIDEO COVERAGE TO THE CORRESPONDING DVDS SHALL BE SUPPLIED TO THE OWNER. THIS INDEX SHALL IDENTIFY EACH SEGMENT IN THE VIDEO BY LOCATION, ENGINEERING DRAWINGS CORRESPONDING TO THE STATIONING ON THE CONTRACT DOCUMENTS, VIDEO COUNTS NUMBER, VIEWING SIDE, POINT STARTING FROM TRAVELING DIRECTION, LOCATION OF THE CAMERA OPERATOR, WRITTEN COMMENTS WITH THE INFORMATION ON THE TAPE SO AS TO MAKE EASY RETRIEVAL OF LOCATIONS SOUGHT FOR AT A LATER DATE.
7. THE VIDEO PORTION OF THE RECORDING SHALL PRODUCE BRIGHT, SHARP, CLEAR PICTURES WITH ACCURATE COLORS AND SHALL BE FREE FROM DISTORTION, TEARING, ROLLS, OR ANY OTHER FORM OF PICTURE IMPERFECTION. THE AUDIO PORTION OF THE RECORDING SHALL REPRODUCE PRECISION AND CONSISTENCY IN SOUND. THE CONTRACTOR SHALL PROVIDE THE INFORMATION ON THE INFORMATION ON THE TAPE SO AS TO MAKE EASY RETRIEVAL OF LOCATIONS SOUGHT FOR AT A LATER DATE.
8. THE RECORDER SHALL RECORD THE COLOR SIGNAL WITH A MINIMUM HORIZONTAL RESOLUTION OF 480 LINES. THE COLOR VIDEO CAMERA SHALL HAVE A MINIMUM HORIZONTAL RESOLUTION OF 700 LINES AT THE CENTER.
9. TO PRECLUDE THE POSSIBILITY OF TAMPERING OR EDITING, THE DVD SHALL DISPLAY CONTINUOUS DIGITAL INFORMATION INCLUDING THE FOLLOWING:
a. DATE AND TIME OF THE RECORDING; DATE INFORMATION WILL CONTAIN THE MONTH, DAY, AND YEAR. THE INFORMATION WILL CONTAIN HOURS, MINUTES, AND SECONDS, SEPARATED BY COLONS.
9. DIGITAL INFORMATION SHALL APPEAR AT THE BOTTOM OF THE VIEWING SCREEN AND IN NO WAY INTERFERE WITH THE VIDEO PORTION OF THE RECORDING.
10. AT THE START OF EACH VIDEO RECORDING SEGMENT, AN IDENTIFICATION SUMMARY SHALL BE READ INTO THE RECORD SIMULTANEOUSLY WITH A WIDE-ANGLE VIEW WITH DIGITAL INFORMATION. THE IDENTIFICATION SUMMARY SHALL INCLUDE THE FOLLOWING:
a. DVD NUMBER
b. CONTRACT NUMBER AND PROJECT NAME
c. CONTRACTOR'S NAME
d. DATE AND TIME
e. LOCATION ON THE SITE
f. WEATHER
g. DIRECTION OF TRAVEL AND VIEWING DIRECTION
11. THE RECORDING SHALL INCLUDE THE COVERAGE OF ALL SURFACE AND OTHER SITE FEATURES LOCATED IN AREAS TO BE AFFECTED BY THE WORK, EXTENDING TO A MINIMUM OF 15 FEET OUTSIDE THE ACTUAL AREA TO BE DISTURBED. THE SURFACE FEATURES RECORDED SHALL INCLUDE, BUT NOT BE LIMITED TO, ROADWAYS, DRIVEWAYS, SIDEWALKS, CURBS, CURBVERTS, HEADWALLS, RETAINING WALLS, BUILDINGS, ABOVE-GROUND UTILITIES, PAVES, LAWNS, LANDSCAPING, TREES, TREE CANOPIES, SHRUBBERY, AND FENCES. THE AREA COVERAGE SHALL EXTEND TO 50 FEET FROM THE PROPOSED WORK SITE BUT SHALL INCLUDE ALL UNPAVED AREAS AND ACCESS ROUTES WHERE THE VEHICLES OR EQUIPMENT PASS.
12. VIDEO RECORDING MAY BE ORDERED OUTSIDE OF THE AREA OF COVERAGE IN ORDER TO ESTABLISH THOSE FEATURES DEEMED NECESSARY BY THE OWNER.
13. VIDEO RECORDING COVERAGE SHALL INCLUDE DOCUMENTATION OF THE CONDITION OF THE SURFACE AND OTHER SITE FEATURES LOCATED WITHIN THE AREA OF COVERAGE AND SHALL BE SUPPORTED BY APPROPRIATE AUDIO DESCRIPTION. AUDIO DESCRIPTION SHALL BE MADE SIMULTANEOUSLY WITH THE VIDEO RECORDING.
14. THE COVERAGE SHALL BE CONTINUOUS (I.E. THE CAMERA SHALL NOT BE TURNED OFF OR RECORDING HAS BEGUN) TO THE GREATEST EXTENT POSSIBLE.
15. THE RATE OF TRAVEL FOR VIDEO RECORDING SHALL BE DETERMINED BY THE NUMBER, SIZE, AND VALUE OF THE SURFACE AND OTHER SITE FEATURES WITHIN THE CONSTRUCTION AREA OF COVERAGE SO AS TO PRODUCE A CLEAR, DETAILED VIEW OF EACH FEATURE. AT NO TIME SHALL THE RATE OF TRAVEL EXCEED 44 FEET PER MINUTE. FORWARD MOTION OF THE CAMERA SHALL BE HALTED WHEN VIEWING OBJECTS OR STRUCTURES OUTSIDE THE LIMITS OF THE STREET OR EASEMENT BEING DOCUMENTED.
16. THE PHOTOGRAPHER SHALL PAN AND ZOOM IN AND OUT AT A REASONABLE RATE SO AS TO CONTROL SUFFICIENT THE CLARITY OF OBJECTS BEING RECORDED. WHEN RECORDING IN RIGHT-OF-WAYS, THE CAMERA SHALL BE MOUNTED ON A STEADY BASE. HORIZONTAL AND VERTICAL SHOTS SHALL BE MADE FROM THE BASE, IN ORDER TO INSURE PROPER PERSPECTIVE. THE DISTANCE FROM THE CAMERA LENS TO THE GROUND SHALL BE NOT LESS THAN 12 FEET. IF NOT ATTAINABLE BY MOUNTING HEIGHT, HEIGHT SHALL BE DETERMINED BY THE DISTANCE FROM OBJECT TO SHOULDER HEIGHT OF THE CAMERA OPERATION. CONTRACTOR SHALL FURNISH ALL AUXILIARY ASSISTANCE AS REQUIRED TO PRODUCT A QUALITY RECORDING. AT NO TIME WILL THE CONTRACTOR BE ALLOWED TO USE ANY ELECTRICAL CIRCUITS WITHIN A BUILDING ON PRIVATE PROPERTIES.
17. ALL VIDEO RECORDING SHALL BE PERFORMED DURING REGULAR BUSINESS HOURS, UNLESS OTHERWISE APPROVED BY THE OWNER. NO VIDEO RECORDING SHALL BE PERFORMED IF THE WEATHER IS NOT ACCEPTABLE. SUCH AS RAIN, FOG, OR ELONGATED SHADOWS THAT DISTORT PERSPECTIVE AND TEND TO PREVENT CLEAR RESOLUTION.

GENERAL NOTES
JENKIN'S CREEK PEDESTRIAN BRIDGE REPLACEMENT



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Table with columns: DATE, REVISION, SHEET NO., and DRAWING SIZE (22" x 34").

SHEET
G-102
22056

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LEGAL DESCRIPTION

PARCEL 5.0:
THE SOUTH 330.00 FEET OF GOVERNMENT LOT 7, AND THE SOUTH 330.0 FEET OF GOVERNMENT LOT 8, LYING WEST OF STATE ROAD No. 595, ALL IN SECTION 31, TOWNSHIP 22 SOUTH, RANGE 17 EAST, HERNANDO COUNTY, FLORIDA.

PARCEL 1.11:
ALL THAT PART OF GOVERNMENT LOTS 1 AND 2 LYING WEST OF STATE ROAD No. 595 IN SECTION 06, TOWNSHIP 23 SOUTH, RANGE 17 EAST, HERNANDO COUNTY, FLORIDA.

** BASIS FOR BEARINGS **

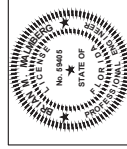
THE BEARINGS SHOWN ON THIS SURVEY ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT. BEARINGS SHOWN HEREON ARE GRID BEARINGS.

N.A.V.D. 1985 DATUM

ELEVATIONS BASED ON N.G.S. T.B.M. Q-750, ELEV.= 8.90'. A BRASS DISK IN A CULVERT HEADWALL LOCATED ON THE EAST SIDE OF SHOAL LINE BLVD., 800' NORTH OF JENKINS CREEK PARK

NOTE: SEE SHEET C-102 FOR LEGEND AND GENERAL SURVEY NOTES.

TOPOGRAPHIC SURVEY
JENKINS CREEK PEDESTRIAN
BRIDGE REPLACEMENT



Coastal
ENGINEERING, INC.
800 Cordillion Boulevard • Brooksville, Florida 34601
(352) 796-1423 • Fax (352) 796-8359
EID-000742

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DATE	REV. BY/REV. NO.	REVISION

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SHEET
C-101
JOB NO. 22056

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Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 20 rows of data for pile locations.

Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 20 rows of data for pile locations.

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Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 20 rows of data for pile locations.

Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 15 rows of data for pile locations.

Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 10 rows of data for pile locations.

RAMP-2

Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 7 rows of data for pile locations.

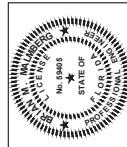
RAMP-3

Table with 4 columns: PILE #, TOP DECK ELEV, GROUND ELEV, TOTAL HEIGHT. Contains 7 rows of data for pile locations.

RAMP-4

LEGEND section containing symbols and definitions for various survey markers, elevations, and structures.

SURVEY POLE LOCATIONS
JENKIN'S CREEK PEDESTRIAN BRIDGE REPLACEMENT



Coastal Engineering Associates, Inc.
800 Constitution Boulevard - Brooksville, Florida 34601
(352) 796-8399
EID-0010742

GENERAL SURVEY NOTES
1. BEARINGS SHOWN HEREON BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT...

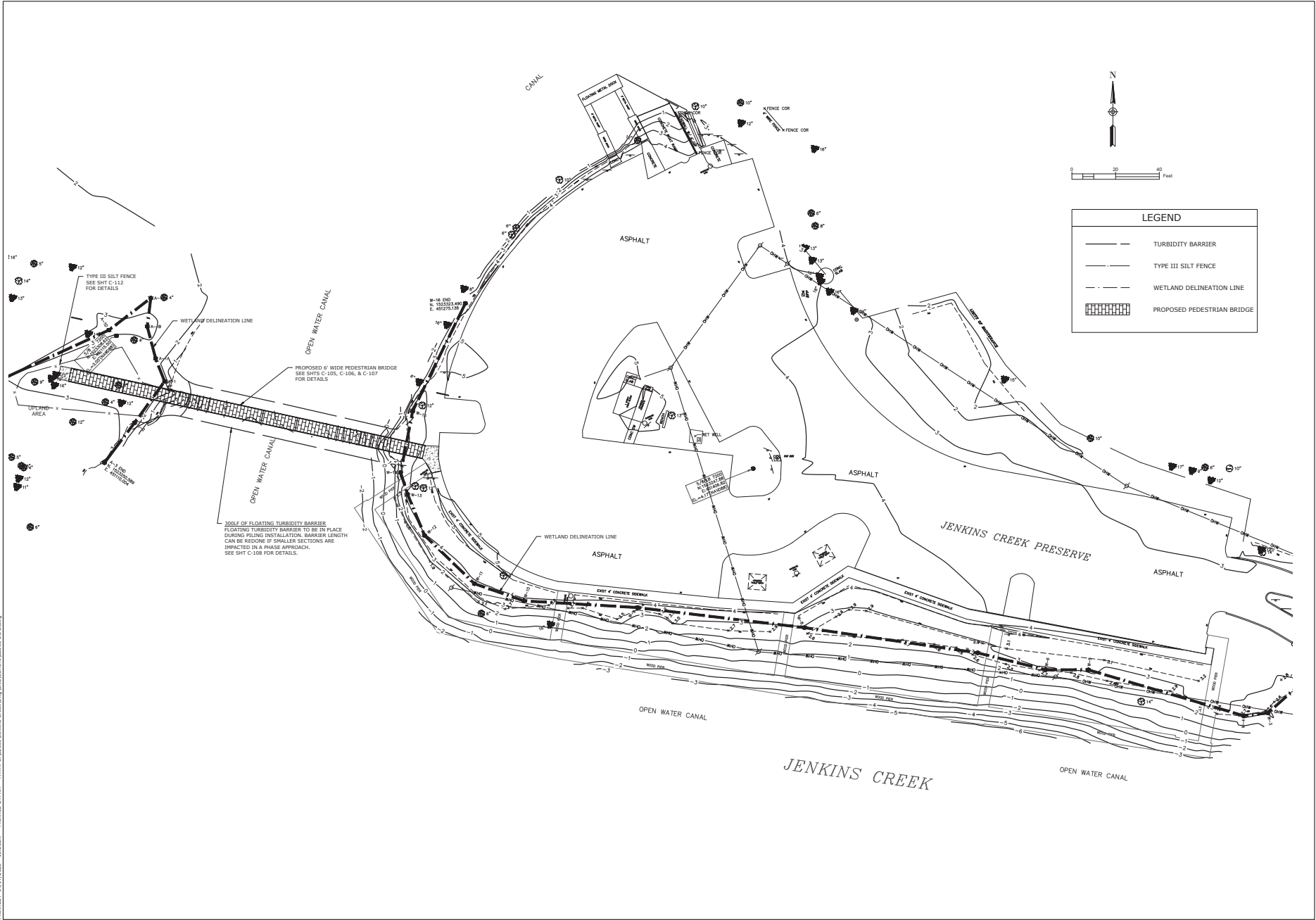
RIGHT-OF-WAY INFORMATION SHOWN HEREON WAS TAKEN FROM P.D.O.T. RIGHT-OF-WAY MAPS FOR S.R. ROAD #995 (SHOAL LINE BLVD.)...
THIS RIGHT-OF-WAY INFORMATION IS ALSO BASED ON EXISTING MONUMENTATION FOUND ALONG THE WESTERLY RIGHT-OF-WAY LINE ON AND ADJACENT TO TIDEWATER COMMERCIAL CENTER TO THE SOUTH (P.B. 18, PG. 14), AND ALONG THE EASTERLY RIGHT-OF-WAY LINE ON WERKI WACHIE GARDENS TO THE NORTH (P.B. 6, PG. 19)...

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Table with 4 columns: DATE, NEXT EFFECTIVE DATE, REVISION, and a grid for revision details.

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C-102
22056

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LEGEND

- TURBIDITY BARRIER
- TYPE III SILT FENCE
- WETLAND DELINEATION LINE
- PROPOSED PEDESTRIAN BRIDGE

300'S OF FLOATING TURBIDITY BARRIERS
 FLOATING TURBIDITY BARRIER TO BE IN PLACE
 DURING FILING INSTALLATION. BARRIERS LENGTH
 CAN BE REDUCE IF SMALLER SECTIONS ARE
 IMPACTED IN A PILE APPROACH.
 SEE SHT C-108 FOR DETAILS.

PROPOSED 6' WIDE PEDESTRIAN BRIDGE
 SEE SHTS C-105, C-106, & C-107
 FOR DETAILS

TYPE III SILT FENCE
 SEE SHT C-112
 FOR DETAILS

EROSION CONTROL PLAN
**JENKINS CREEK PEDESTRIAN
 BRIDGE REPLACEMENT**



Coastal
 ENGINEERING
 8000 Coralbluff Boulevard • Boca Raton, Florida 33401
 (305) 796-4423 • Fax (305) 796-8399
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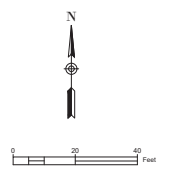
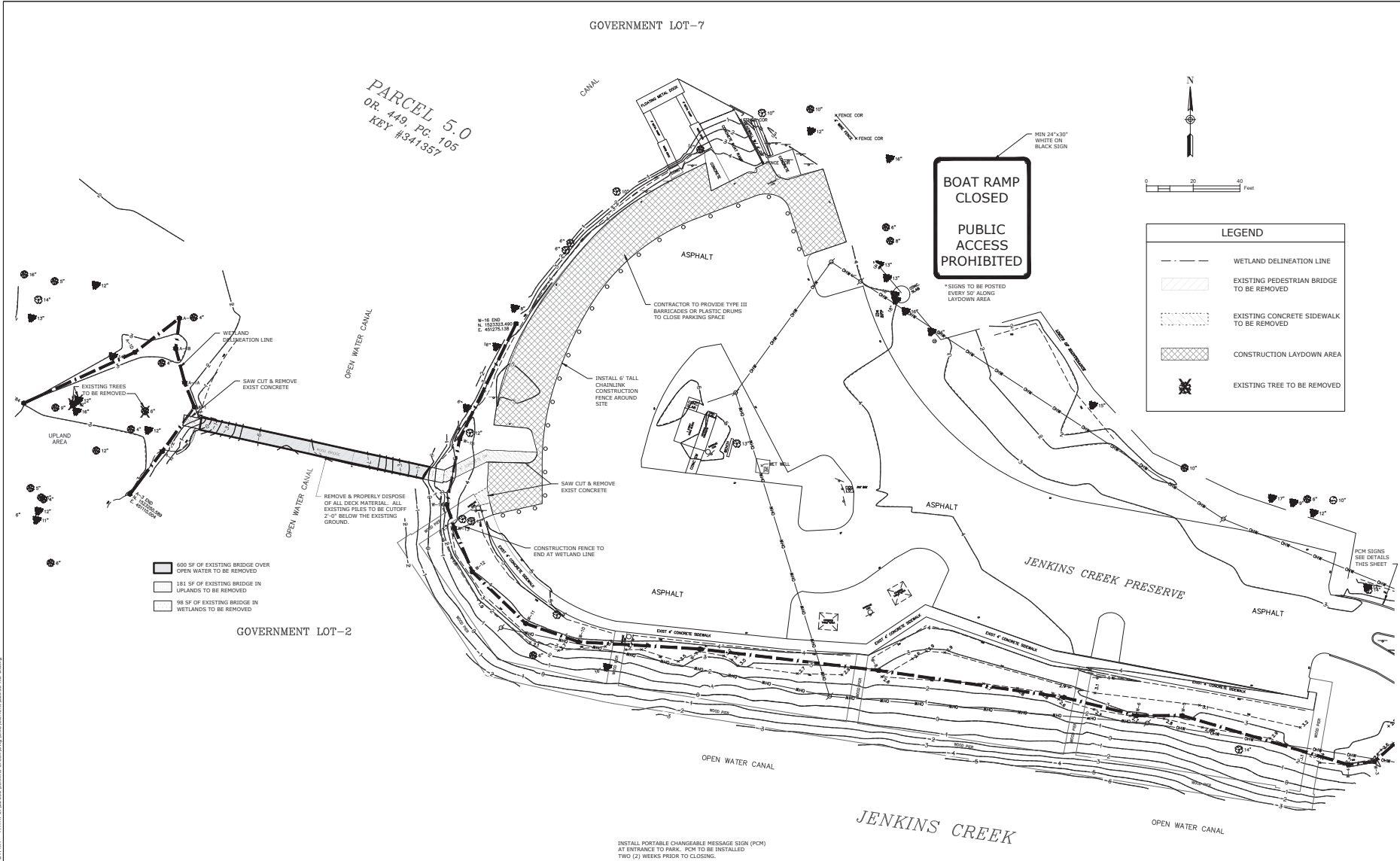
WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 27" X 34"

SHEET
C-103

DWG NO. 22056

GOVERNMENT LOT-7

PARCEL 5.0
OR. 449, PG. 105
KEY #341357



LEGEND	
	WETLAND DELINEATION LINE
	EXISTING PEDESTRIAN BRIDGE TO BE REMOVED
	EXISTING CONCRETE SIDEWALK TO BE REMOVED
	CONSTRUCTION LAYDOWN AREA
	EXISTING TREE TO BE REMOVED

BOAT RAMP CLOSED
PUBLIC ACCESS PROHIBITED

*SIGNS TO BE POSTED EVERY 50' ALONG LAYDOWN AREA

- 400 SF OF EXISTING BRIDGE OVER OPEN WATER TO BE REMOVED
- 181 SF OF EXISTING BRIDGE IN UPLANDS TO BE REMOVED
- 98 SF OF EXISTING BRIDGE IN WETLANDS TO BE REMOVED

NOTE: CONTRACTOR TO COORDINATE BOAT RAMP CLOSING DATES WITH COUNTY SO PROPER PUBLIC NOTICE CAN BE ISSUED BY COUNTY STAFF.

BOAT RAMP CLOSED
PCM-A

(DATE) TO (DATE)
PCM-B

SIGN TO REMAIN UNTIL PROJECT IS COMPLETE.

SITE DEMOLITION PLAN
JENKINS CREEK PEDESTRIAN BRIDGE REPLACEMENT



Coastal
Engineering
Planning
Construction
Environmental
Management
800 Cathedral Boulevard • Brooksville, Florida 34401
(352) 796-4423 • Fax (352) 796-8359
EPC0001742

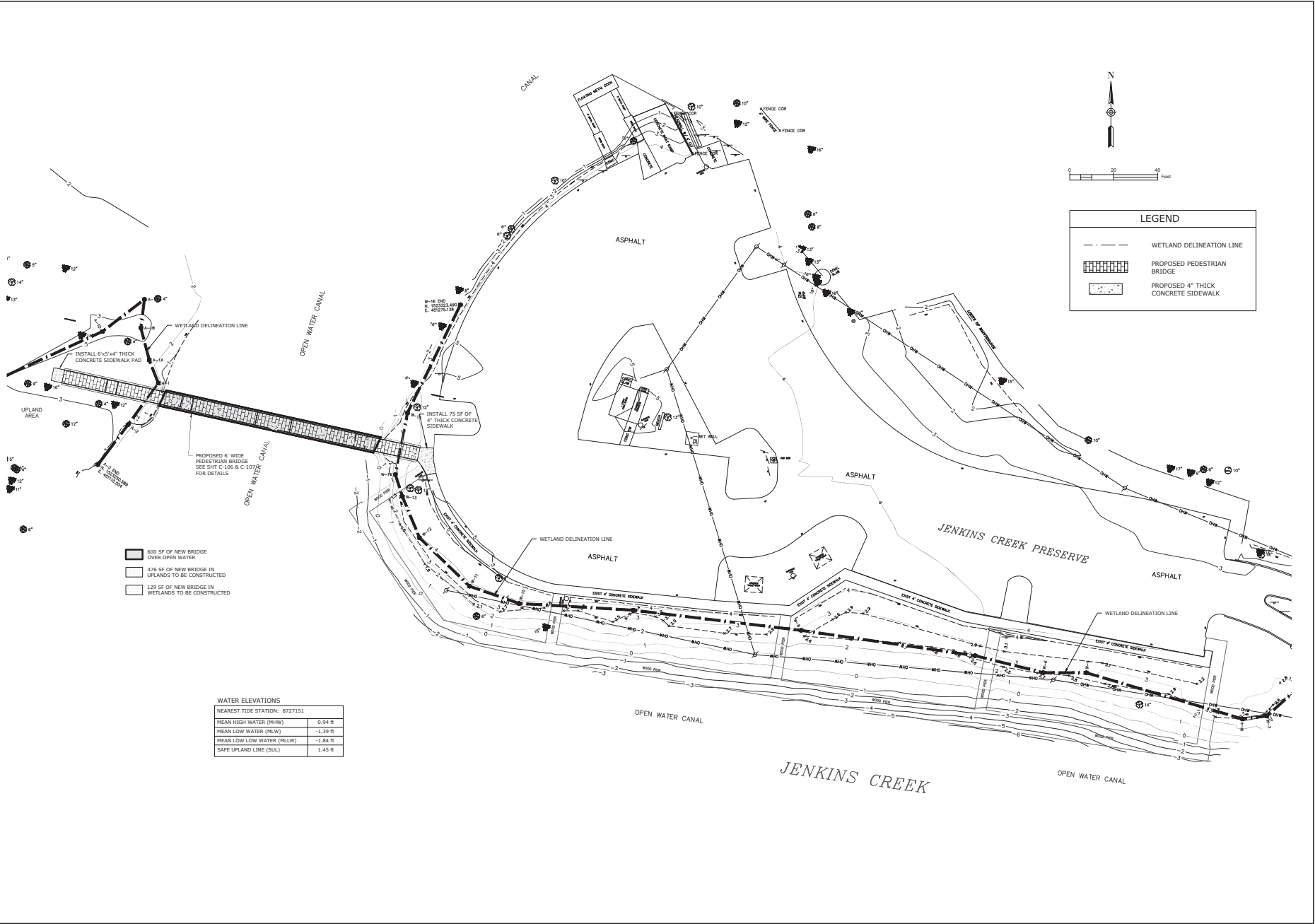
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22056

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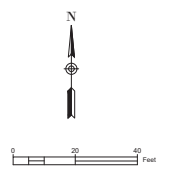
PRINTED: 04/17/2023 - 11:23 AM PRINTED BY: B4I PATH: L:\22056\Jenkins_Creek\Drawings\DWG\C-105-01.dwg



- 600 SF OF NEW BRIDGE OVER OPEN WATER
- 476 SF OF NEW BRIDGE IN UPLANDS TO BE CONSTRUCTED
- 120 SF OF NEW BRIDGE IN WETLANDS TO BE CONSTRUCTED

WATER ELEVATIONS

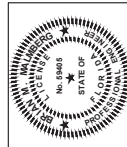
NEAREST TIDE STATION: 8727151	
MEAN HIGH WATER (MHW)	0.94 ft
MEAN LOW WATER (MLW)	-1.39 ft
MEAN LOW WATER (MLLW)	-1.84 ft
SAFE UPLAND LINE (SUL)	1.45 ft



LEGEND

- WETLAND DELINEATION LINE
- PROPOSED PEDESTRIAN BRIDGE
- PROPOSED 4" THICK CONCRETE SIDEWALK

OVERALL SITE PLAN
JENKINS CREEK PEDESTRIAN BRIDGE REPLACEMENT



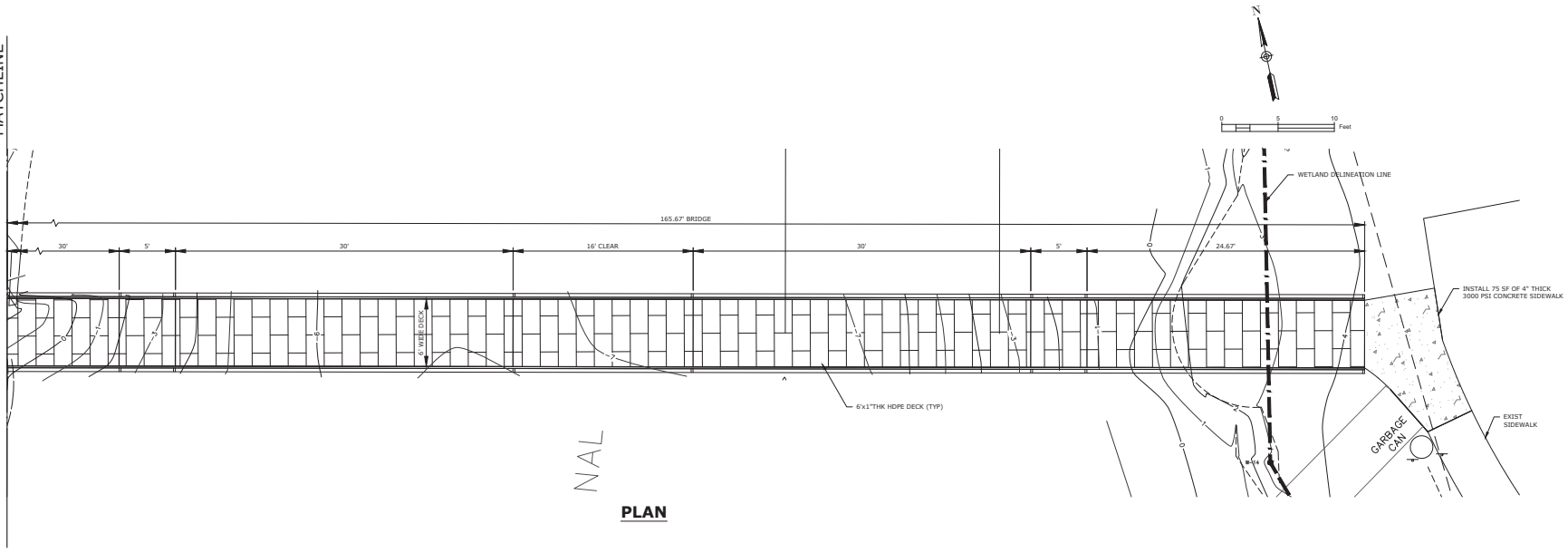
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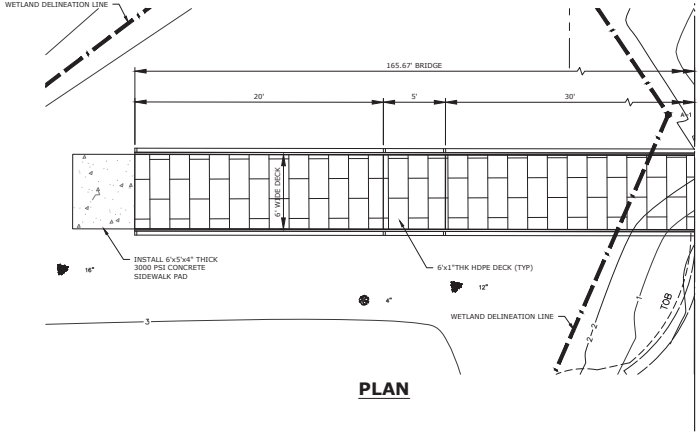
DATE	REV. BY/REV. NO.	REVISION

MATCHLINE



NAL

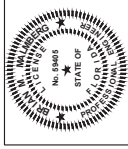
PLAN



PLAN

MATCHLINE

PEDESTRIAN BRIDGE PLAN
JENKIN'S CREEK PEDESTRIAN BRIDGE REPLACEMENT



Coastal
Engineering
Associates, Inc.
3906 Cameron Road, Suite 100
Raleigh, NC 27605
919.876.4423 • Fax: 919.876.4508
EP-0001142

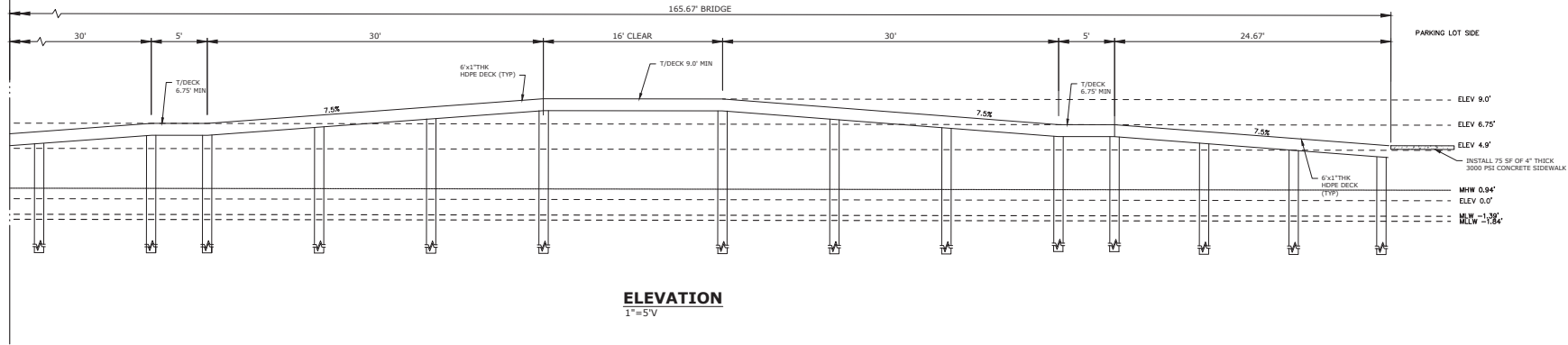
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C-106

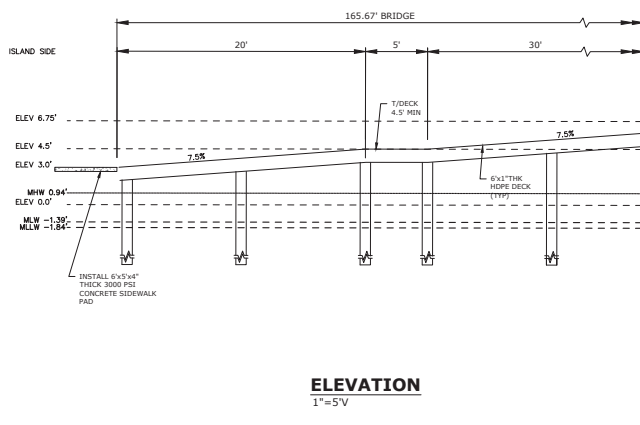
PRINTED: 04/17/2023 - 11:2 am PRINTED BY: B4 PATH: L:\2020 Jenkins Creek\JenBridg\Draw\22056-P8-B.dwg

MATCHLINE



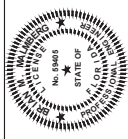
ELEVATION
1"=5'V

MATCHLINE



ELEVATION
1"=5'V

PEDESTRIAN BRIDGE PROFILE
JENKIN'S CREEK PEDESTRIAN BRIDGE REPLACEMENT



Coastal
Engineering, Inc.
9165 Condon Road, Suite 100
Jacksonville, FL 32216
Phone: 904.776.4423 Fax: 904.776.4508
EP-0000142

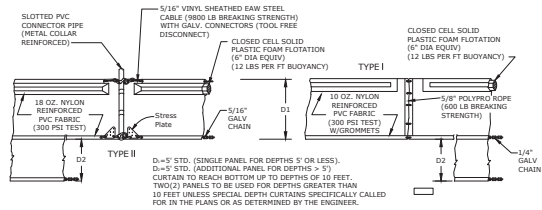
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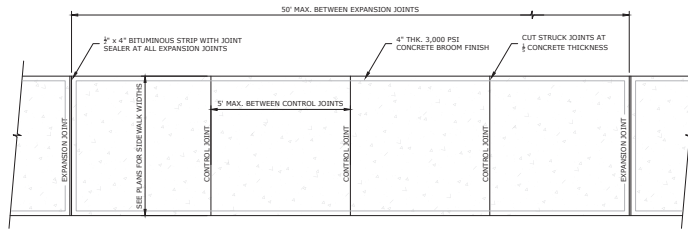
SHEET
C-107

22056



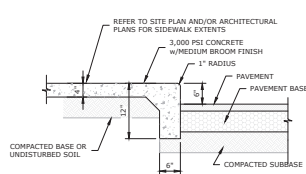
NOTICE: COMPONENTS OF TYPE I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRASTRUCTURE OF THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPE I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS
N. T. S.

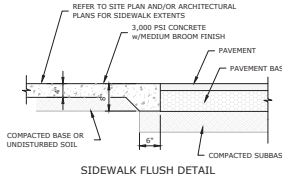


NOTES:
1. SIDEWALK SHALL HAVE TOOLED EDGES.
2. CONSTRUCTION JOINTS SHALL BE LOCATED AT STRUCK JOINTS OR EXPANSION JOINTS ONLY.
3. THIS DETAIL IS FOR ON-SITE CONDITIONS ONLY. DO NOT USE IN RIGHT-OF-WAY CONSTRUCTION.

SIDEWALK STANDARD DETAIL
N.T.S.

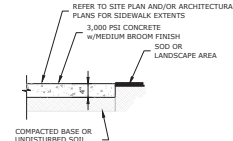


SIDEWALK CURB DETAIL
N.T.S.

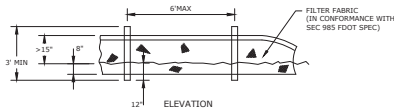


SIDEWALK FLUSH DETAIL
N.T.S.

NOTES:
1. PROVIDE 1/2 CONTROL JOINTS @ 5' 0" O.C.
2. PROVIDE 1/2 BITUMINOUS EXPANSION JOINTS AT 50' O.C.
3. THIS DETAIL IS FOR ON-SITE CONDITIONS ONLY. DO NOT USE IN RIGHT-OF-WAY CONSTRUCTION.

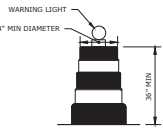
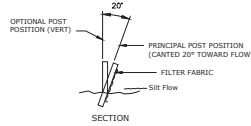


SIDEWALK AT GREEN AREA
N.T.S.

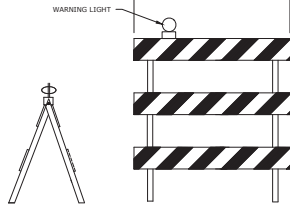


TYPE III SILT FENCE
N. T. S.

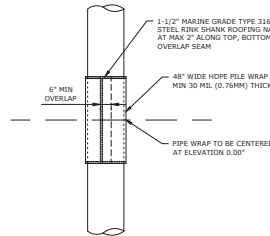
NOTES:
1. FOR ADDITIONAL INFORMATION AND DETAILS, SEE F.D.E.P. BMP STANDARDS.
2. UNLESS SPECIFIED, HWY BARRIERS MAY BE USED IN LBS OF SILT FENCES.
3. ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.
4. ADDITIONAL FENCE LENGTHS MAY BE REQUIRED BY THE ENGINEER OR BY REGULATORY AGENCIES.
5. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



**STEEL DRUMS NOT PERMITTED
PLASTIC DRUMS**
N. T. S.



TYPE III BARRICADE
N. T. S.



NOTES:
1. PIPE WRAP TO BE INSTALLED ON ALL NEW PILES.
2. PIPE WRAP TO BE 48" WIDE HIGH-DENSITY POLYETHYLENE PLASTIC WITH UV STABILIZATION, MIN 30 MIL THICKNESS.
3. NAILS TO BE 1-1/2" MARINE GRADE TYPE 316 STAINLESS STEEL RINK SHANK ROOFING NAILS.
4. ALTERNATE PIPE WRAP SYSTEMS OFFERING SIMILAR PROTECTION WILL BE CONSIDERED UPON REVIEW.

PIPE WRAP DETAIL
INCLUDE AS BID ALTERNATE ITEM

CIVIL DETAILS

JENKIN'S CREEK PEDESTRIAN
BRIDGE REPLACEMENT



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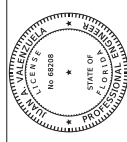
GENERAL NOTES:

1. DESIGN SPECIFICATIONS
 - A. FLORIDA DEPARTMENT OF TRANSPORTATION STRUCTURES MANUAL DATED JANUARY 2023.
 - B. AASHTO LRFD SPECIFICATION FOR HIGHWAY BRIDGES, 9TH EDITION IN CONJUNCTION WITH AASHTO LRFD GUIDE SPECIFICATION FOR DESIGN OF PEDESTRIAN BRIDGES, 2009 EDITION.
2. GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS
 - A. FLORIDA DEPARTMENT OF TRANSPORTATION FY 2023-24 STANDARD PLANS AND REVISED THREE DRAWINGS AS APPENDED HEREIN AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2023-24 AS AMENDED BY CONTRACT DOCUMENTS.
3. DESIGN METHODOLOGY
 - A. DESIGN TIMBER IN ACCORDANCE WITH THE LRFD METHOD.
4. DESIGN LOADINGS
 - A. PEDESTRIAN LIVE LOAD = 80 PSF IN ACCORDANCE WITH THE LRFD GUIDE FOR PEDESTRIAN BRIDGE.
 - B. DESIGN DEAD LOADS: WEIGHT OF TIMBER = 40 PCF
MAX. WEIGHT OF HOPE = 47 PCF (ASTM D6111)
 - C. NO ALLOWANCE FOR UTILITIES HAS BEEN INCLUDED IN THE DESIGN.
5. MATERIALS AND FABRICATION
 - A. BOARDWALK AND RAILING (HORIZONTALS) MUST BE HIGH DENSITY POLYETHYLENE (HDPE) WITH A MINIMUM 50 YEAR DESIGN LIFE WITH THE FOLLOWING MINIMUM PROPERTIES (ASTM D6199):
 - 1) ALLOWABLE FLEXURAL STRESS = 7,200 PSI
 - 2) MODULUS OF ELASTICITY = 114,000 PSI
 - B. ALL LUMBER MUST BE CUT AND FABRICATED PRIOR TO PRESSURE TREATMENT WITH PRESERVATIVES.
 - C. ALL LUMBER MUST BE TREATED IN ACCORDANCE WITH SPECIFICATION 13SECTION 955.
 - D. ALL LUMBER MUST BE VISUALLY GRADED NO. 1 DENSE OR BETTER SOUTHERN PINE DIMENSION LUMBER MEETING THE REQUIREMENTS OF THE AMERICAN SOFTWOOD LUMBER STANDARDS, #S20-70, AS SPECIFIED IN THE TABLE BELOW.

DIMENSION OF SAWN SOUTHERN PINE LUMBER AND HOPE						
SURFACE	THICKNESS (IN)			WIDTH (IN)		
NOMINAL	2	3	4	6	8	10 12
ACTUAL	1 1/2	2 1/2	3 1/2	5 1/2	7 1/4	9 1/4 11 1/4

- E. VARIATIONS IN DEPTH BETWEEN STRINGERS MUST NOT EXCEED 1/8 IN. SO AS TO PROVIDE A FLAT SURFACE.
 - F. MOISTURE CONTENT OF LUMBER 4 IN. OR LESS IN NOMINAL THICKNESS MUST BE 19 PERCENT OR LESS.
 - G. MAXIMUM DEFLECTION DUE TO LIVE LOAD FOR HORIZONTAL LUMBER COMPONENTS IS LIMITED TO A VALUE EQUAL TO SPAN/800.
 - H. SPLICES OF JOISTS MUST BE MADE OVER SUPPORTS.
 - I. BOARDWALK DECKING SPLICES ARE NOT PERMITTED.
 - J. FOR VERTICAL AND HORIZONTAL ALIGNMENT REFER TO PATHWAY PLANS. VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION.
 - K. TIMBER BOARDWALK SUBSTRUCTURE AND PILE FOUNDATIONS MUST CONFORM TO SPECIFICATIONS SECTION 951 THRU 954.
6. CONNECTORS
 - A. USE BOLTS OR SCREWS AS SHOWN FOR ASSEMBLY ON THE BOARDWALK. ALL BOLT ASSEMBLIES MUST HAVE WASHERS UNDER BOTH THE BOLT HEAD AND NUTS. SCREWS MUST BE COUNTERSUNK AND INSTALLED 1/8 INCHES DRILLED WITH A COUNTERBORE DRILL BIT. NUTS MAY ONLY BE USED FOR PRE-ASSEMBLY AS SHOWN. ALL BOLTS, NUTS, WASHERS, SCREWS AND NAILS MUST BE STAINLESS-STEEL TYPE 316. STAINLESS STEEL BOLTS, AND SCREWS MUST MEET ASTM F593. NUTS MUST MEET ASTM F594.
 7. TIMBER PILING NOTES
 - A. THE TIMBER PILES MUST BE ASTM D-25 WITH A MINIMUM TIP DIAMETER OF 10 INCHES.
 - B. VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO DRIVING ANY PILES. NOTIFY ALL INVOLVED UTILITY COMPANIES PRIOR TO EXCAVATION, PILE DRIVING OR CONSTRUCTION AND ASSURE THAT UTILITIES ARE MAINTAINED AND PROTECTED AGAINST DAMAGE DURING CONSTRUCTION.
 - C. ALL PILES SHALL BE DRIVEN, NO JETTING IS ALLOWED WITHOUT APPROVAL OF THE ENGINEER.
 - D. ESTABLISH PILE DRIVING CRITERIA BASED ON LOADS AND HAMMER CHARACTERISTICS.
 - E. SELECT APPROPRIATE HAMMER TO ACHIEVE THE REQUIRED RESISTANCE AND EMBEDMENTS SHOWN IN THE PLAN AND SUBMIT A PILE INSTALLATION PLAN PRIOR TO MOBILIZATION.
 - F. THE FACTORED PILE DESIGN LOAD IS 3.5 TONS FOR PILES BEARING. THE NOMINAL BEARING RESISTANCE IS 3.4 TONS BASED ON A RESISTANCE FACTOR OF 0.85. THE TIMBER PILES MUST BE DRIVEN IN ACCORDANCE WITH SPECIFICATION 555. WARE EMBEDMENT ANALYSIS MUST BE PERFORMED TO DETERMINE THE DYNAMIC CAPACITY OF THE TIMBER PILES. BASED ON THE HAMMER TYPE, CUSHION AND DESIGN LOADS BEFORE PILE DRIVING COMMENCEMENT. THE USE OF ENGINEERING NEWS-FORMULA WILL NOT BE ACCEPTED. PROVIDE THIS INFORMATION FOR REVIEW BY THE ENGINEER IN ADVANCE OF PILE DRIVING.
 - G. THE PILES MUST BE INSTALLED USING APPROPRIATE EQUIPMENT TO ALLOW DRIVING TO THE REQUIRED BEARING DEPTHS AND TO LIMIT DRIVING STRESSES WITHIN THE PILES. PER NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC) DESIGN MANUAL 7, THE MAXIMUM DRIVING ENERGY FOR TIMBER PILES SHOULD BE LIMITED TO 20000 FOOT-POUNDS.
 - H. PILE EMBEDMENT DEPTHS MUST BE DETERMINED BY PILE BEARING RECORDMENTS, OR MINIMUM EMBEDMENT REQUIRED. PILE DRIVING MUST BE AS CONTINUOUS AS POSSIBLE AND PROCEED WITHOUT STOPPING OVER AT LEAST 8 FEET OF PENETRATION.
 - I. PILES MUST BE DRIVEN WITH HEAVY METAL STRAPPING AT THE PILE HEAD. PILES THAT HAVE SPLITTING OR BROOKING MUST BE CUT BACK TO SOLID WOOD BEFORE FINAL RESISTANCE IS MEASURED. FRESH CUT AND SCARS MUST BE COATED WITH A GENEROUS APPLICATION OF PRESERVATIVE.
 - J. PILES MUST BE DRIVEN PLUMB.
 - K. TIMBER PILES MUST BE SOUTHERN PINE LUMBER MARINE GRADE IN ACCORDANCE WITH AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) CATEGORY L55C, AND SOUTHERN PINE INSPECTION BUREAU (SPIB) STANDARD GRADING RULES FOR SOUTHERN PINE LUMBER. TIMBER TO BE TREATED TO 25 POUNDS PER CUBIC FOOT RETENTION OF CCA, IN ACCORDANCE WITH ASTM D25.
 - L. ENSURE THAT THE MAXIMUM PILE COMPRESSION AND TENSILE STRESSES MEASURED DURING DRIVING ARE NO GREATER THAN 28,451 FOR SOUTHERN PINE AND PACIFIC COAST DOUGLAS FIR AND 8'8" ON THE DISTANCE PARALLEL TO THE GRAIN STRENGTH FOR PILES OF OTHER WOOD IN ACCORDANCE WITH SECTION 14.10 OF THE SPECIFICATIONS.

GENERAL NOTES SHEET
 JENKIN'S CREEK PEDESTRIAN
 BRIDGE REPLACEMENT



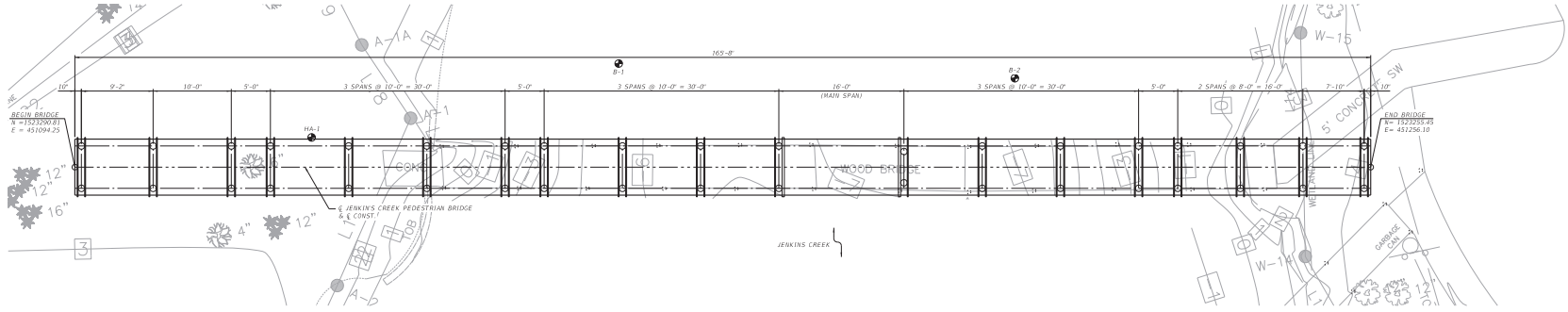
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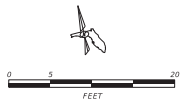
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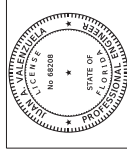
PLAN



NOTES:
 1. SEE TABLE ON SHEET B1-3 FOR BENT LOCATIONS.

LEGEND:
 ● APPROXIMATE LOCATION OF SPT BORING

PLAN
 JENKIN'S CREEK PEDESTRIAN
 BRIDGE REPLACEMENT

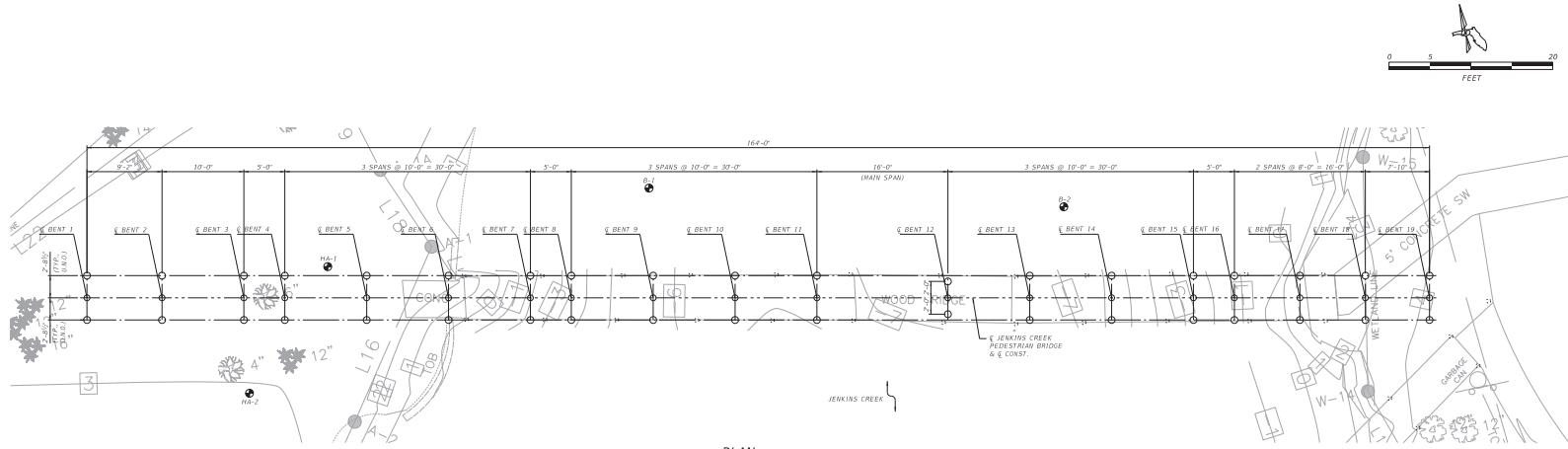


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PLAN

Q BENT LOCATIONS	
Q BENT 1 N = 1523200.62 E = 451209.96	Q BENT 21 N = 1523271.60 E = 451282.77
Q BENT 2 N = 1523208.67 E = 451204.03	Q BENT 12 N = 1523249.18 E = 451209.80
Q BENT 3 N = 1523206.53 E = 451213.76	Q BENT 13 N = 1523246.05 E = 451207.56
Q BENT 4 N = 1523285.47 E = 451218.67	Q BENT 14 N = 1523263.92 E = 451217.34
Q BENT 5 N = 1523283.33 E = 451228.44	Q BENT 15 N = 1523261.78 E = 451227.72
Q BENT 6 N = 1523281.20 E = 451238.23	Q BENT 16 N = 1523260.71 E = 451231.99
Q BENT 7 N = 1523279.06 E = 451247.98	Q BENT 17 N = 1523259.01 E = 451239.81
Q BENT 8 N = 1523278.00 E = 451252.86	Q BENT 18 N = 1523257.30 E = 451247.63
Q BENT 9 N = 1523275.86 E = 451262.63	Q BENT 19 N = 1523253.83 E = 451255.20
Q BENT 10 N = 1523273.73 E = 451272.46	

TIMBER PILE INFORMATION				
BENT LOCATION	TOP OF DECK EL.	TOP OF PILE EL.	MINIMUM TIP EL.	PILE ORDER LENGTH (FT.)
BENT 1	2.06	2.00	-13.00	25
BENT 2	2.25	2.69	-13.00	25
BENT 3	4.50	2.44	-13.00	25
BENT 4	4.30	2.44	-13.00	25
BENT 5	5.25	4.19	-13.00	25
BENT 6	6.00	4.94	-18.00	30
BENT 7	6.75	5.69	-18.00	30
BENT 8	6.75	5.69	-18.00	30
BENT 9	7.30	6.44	-27.00	40
BENT 10	8.25	7.19	-27.00	40
BENT 11	9.00	7.94	-27.00	40
BENT 12	9.00	7.94	-27.00	40
BENT 13	9.25	7.19	-27.00	40
BENT 14	7.50	6.44	-27.00	40
BENT 15	6.75	5.69	-18.00	30
BENT 16	6.75	5.69	-18.00	30
BENT 17	6.75	5.69	-18.00	25
BENT 18	5.55	4.40	-13.00	25
BENT 19	4.96	3.00	-13.00	25

- LEGEND:**
- PROPOSED 10" MIN. TIP TIMBER PILE
 - ◐ EXISTING TIMBER PILE
 - APPROXIMATE LOCATION OF SPT BORING

- NOTES:**
1. SEE TABLE FOR BENT LOCATIONS
 2. ALL EXISTING PILES TO BE CROWN 2'-0" BELOW EXISTING GROUND.

FOUNDATION LAYOUT AND
TIMBER PILE INFORMATION
JENKIN'S CREEK PEDESTRIAN
BRIDGE REPLACEMENT

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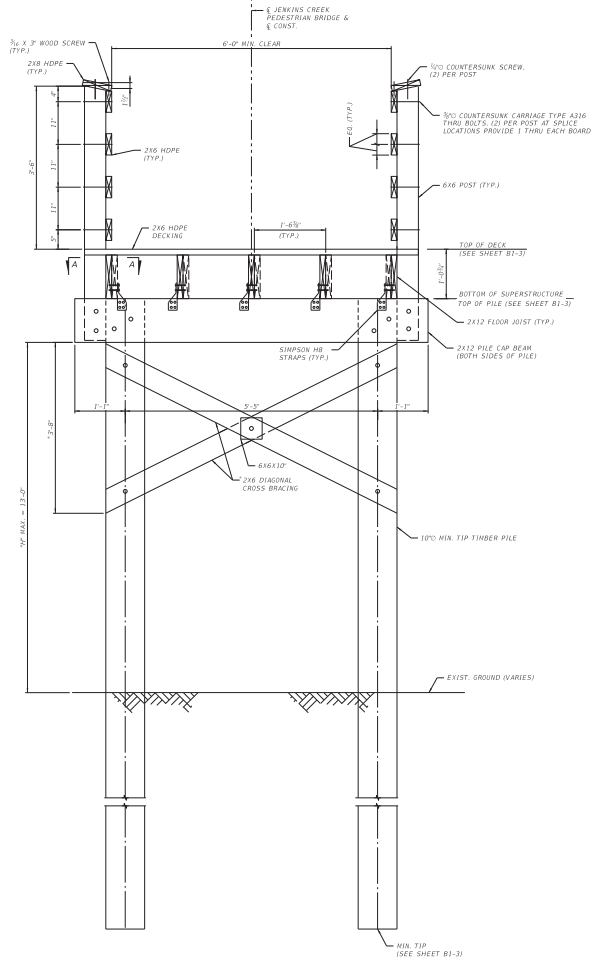
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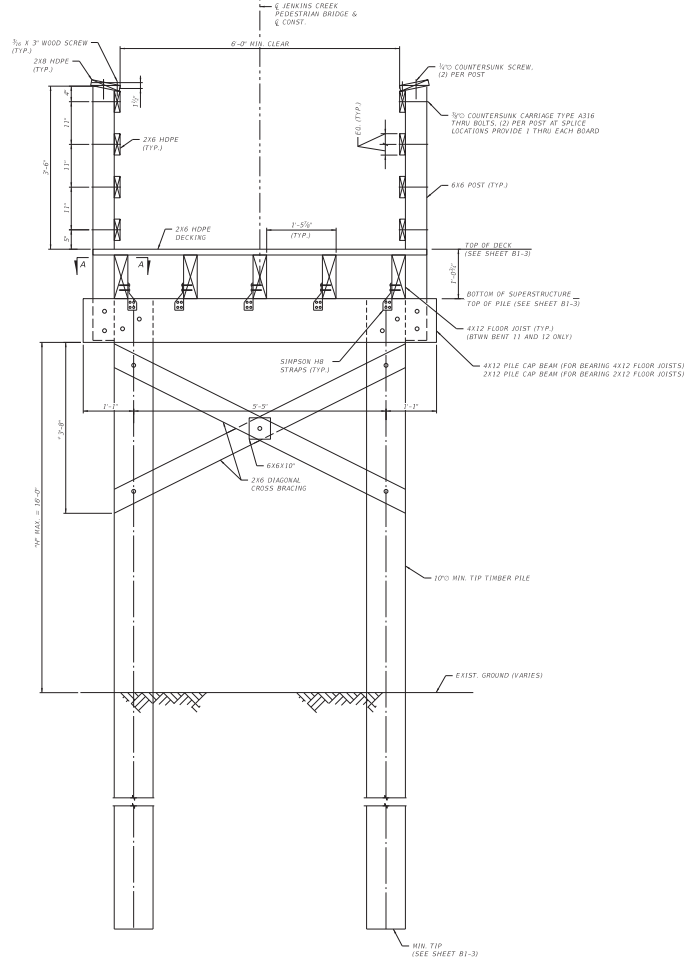
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BENT-SECTION

(AT BENTS 1 THRU 10 AND 13 THRU 19)

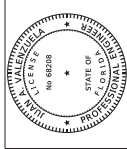
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BENT-SECTION MAIN SPAN

(AT BENTS 11 AND 12)

TYPICAL SECTIONS
JENKIN'S CREEK PEDESTRIAN
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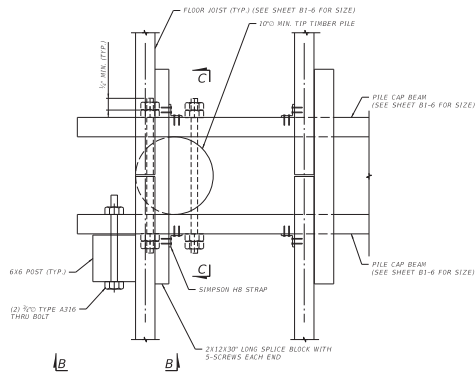
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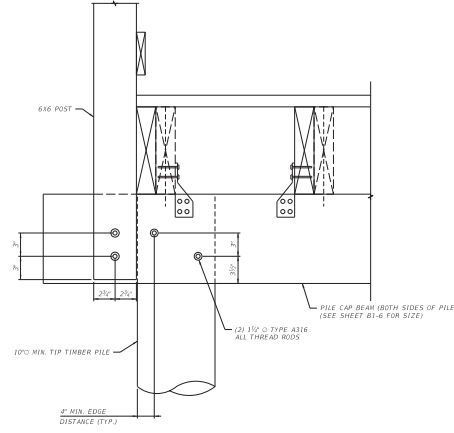
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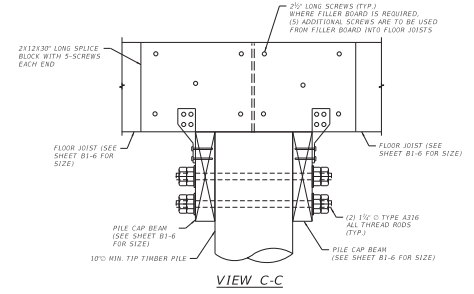
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SECTION A-A



SECTION B-B



VIEW C-C

DETAILS SHEET (1 OF 3)

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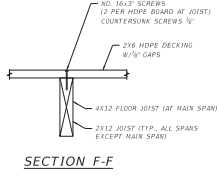
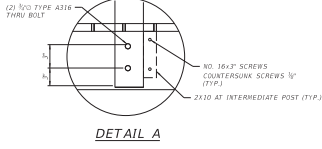
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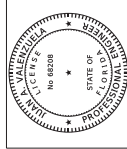
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DETAILS SHEET (3 OF 3)
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