CONSTRUCTION PLANS FOR WALKING PATH DESIGN TIPPECANOE II ENVIRONMENTAL PARK FOR

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS CHARLOTTES COUNTY, FLORIDA

SECTION 14 TOWNSHIP 20 SOUTH, RANGE 21 EAST

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C8	EROSION CONTROL DETAILS (BMP's)



NOTICE TO ALL CONTRACTORS

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STATE, COUNTIES & CITIES
ARE "NOT" PART OF THE
ONE CALL SYSTEM. THEY
MUST BE CALLED
INDIVIDUALLY.



LOCATION MAP



May, 2024

County Commissioners

Ken Doherty, District 1 Christopher Constance, District 2 Bill Truex, District 3 Stephen R. Deutsch, District 4 Joe Tiseo, District 5

Director of Public Works

John Elias

County Engineer

Joanne Vernon, P.E.

Projects Manager

Lacey Solomon



JOHNSON ENGINEERING, INC. 17833 MURDOCK CIRCLE PORT CHARLOTTE, FLORIDA 33948 PHONE (941) 625-9919 E.B. #642 & L.B. #642

REGISTERED PROFESSIONAL ENGINEER FLORIDA LICENSE NO. 64594

CHRISTOPHER D. BEERS, PE

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CONSTRUCTION NOTES:

- 1. CONCRETE SIDEWALKS SHALL BE CONSTRUCTED PER F.D.O.T. INDEX NO. 522-001 (FY 2022-23) AND F.D.O.T. STANDARD SPECIFICATION NO. 522 EXCEPT FOR CURB CUT RAMP RUNS WHICH SHALL BE FINISHED IN ACCORDANCE WITH INDEX NO. 522-002 EXCEPT AMENDMENTS TO DESIGN PER CHARLOTTE COUNTY PUBLIC WORKS — ENGINEERING DIVISION. CLASS I CONCRETE, 3,000 PSI @ 28 DAYS SHALL BE USED FOR ALL SIDEWALKS AND CONCRETE STRUCTURES, SIDEWALKS TO RECEIVE FIBERMESH
- 2. THERE SHALL BE NO CHANGE OR DEVIATION OF THESE PLANS OR SPECIFICATIONS UNLESS PRIOR WRITTEN APPROVAL FROM THE ENGINEER IS OBTAINED.
- 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF AND WHEN A POSSIBLE ERROR IS FOUND IN THE PLANS OR STAKED ALIGNMENT AND/OR GRADES. THE ENGINEER MAY ACCEPT, REVISE TO ACCOMMODATE CONDITIONS, OR REJECT THE FACILITY BEING CONSTRUCTED. IT IS IMPERATIVE THAT THE CONTRACTOR NOTIFY THE ENGINEER OF THESE SITUATIONS AS SOON AS POSSIBLE, PRIOR TO EXPENDITURE OF FUNDS.
- 4. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL BE OBSERVED DURING CONSTRUCTION BY THE CONTRACTOR. THE METHODS WHICH SHOULD BE USED INCLUDE BUT ARE NOT LIMITED TO:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SILTATION CAUSED BY CONSTRUCTION ACTIVITY ENTERING THE STORM DRAINAGE SYSTEM, BOTH ON—SITE AND OFF-SITE. THE CONTRACTOR SHALL UTILIZE SAND BAGS AND SYNTHETIC BALES OR OTHER EROSION CONTROL METHODS TO CONTROL EROSION.

B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AT ALL TIMES DURING CONSTRUCTION BY UTILIZING WATER TRUCKS, ANTI-DRAFT FENCING, OR OTHER APPROVED METHODS, AND BY COVERING OPEN BODIED TRUCKS

- C. EROSION CONTROL MEASURES SHALL BE PROVIDED PER F.D.O.T. EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL AS APPLICABLE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE, INCLUDING MOWING AND CLEANUP UNTIL THE PROJECT IS ACCEPTED. IF, BY THEN, THE GROWTH IS NOT FIRMLY ESTABLISHED, THE CONTRACTOR WILL CONTINUE TO BE RESPONSIBLE FOR MAINTENANCE, UNTIL THE GROWTH IS ESTABLISHED.
- 6. THE CONTRACTOR SHALL USE EXTREME CARE NOT TO DAMAGE THE ROOT SYSTEMS OF TREES AND OTHER LANDSCAPE FEATURES WHICH ARE TO BE SAVED, AND/OR SALVAGED, FOR RESTORATION PURPOSES. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. SEE SPECS FOR ADDITIONAL INFORMATION
- 7. AS PART OF CLEARING AND GRUBBING, ALL DEBRIS IS TO BE REMOVED FROM THE PROJECT SITE AND SALVAGED BY THE CONTRACTOR OR TRANSPORTED TO A LEGAL DISPOSAL AREA, AT HIS EXPENSE. NO BURNING SHALL BE ALLOWED ON THE PROJECT
- 8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE JOB SITE, REVIEW THE CONSTRUCTION AND DESIGN REQUIREMENTS, PROJECT PERMITS, CONDITIONS, STIPULATIONS, AND RESTRICTIONS AS NECESSARY TO FAMILIARIZE HIMSELF WITH THE ENTIRE PROJECT PRIOR TO BIDDING
- 9. THE COUNTY SHALL SECURE AN INDEPENDENT TESTING LABORATORY DURING CONSTRUCTION TO PERFORM SUCH TESTING AS NEEDED TO CERTIFY THAT THE MATERIAL AND STRUCTURAL COMPONENT SPECIFICATIONS NOTED HAVE BEEN MET. THE CONTRACTOR SHALL ALSO SUBMIT, FOR REVIEW AND APPROVAL, TO THE ENGINEER OF RECORD, A MINIMUM OF FOUR COPIES OF SHOP DRAWINGS AND/OR MATERIAL CERTIFICATIONS FOR ALL MATERIALS PRIOR TO ORDERING SAME FOR THE PROJECT.
- 10.ANY LAND DISTURBED BY CONSTRUCTION SHALL BE GRADED FOR POSITIVE DRAINAGE, STABILIZED, AND SODDED. USE ARGENTINE BAHIA OR LIKE KIND AND CONFORM TO FDOT SECTION 981. SOD ALONG EDGES OF SIDEWALKS SHALL BE ONE INCH (1") BELOW FINISHED PAVEMENT GRADE
- 11.ALL CONSTRUCTION SHALL COMPLY WITH ALL FEDERAL AND STATE A.D.A. (AMERICANS WITH DISABILITIES ACT) STANDARDS.
- FILL MATERIAL SHALL BE COMPACTED TO CHARLOTTE COUNTY RIGHT-OF-WAY RESTORATION POLICY AND THE APPLICABLE F.D.O.T. SPECIFICATIONS, 98% MODIFIED PROCTOR DENSITY IN SIX (6) INCH LIFTS MAXIMUM UNLESS SPECIFICATIONS ALLOW
- 13.FILL MATERIAL UTILIZED SHALL BE TYPE A-3.
- 14.CONTRACTOR TO ADHERE TO THE GUIDELINES OF THE FLORIDA "TRENCH AND SAFETY
- 15.PLAN GRADES, ON GRASSED AREAS, INDICATE TOP OF SOD.
- 16.REMOVAL OF PROTECTED TREE SPECIES SHALL REQUIRE A TREE REMOVAL PERMIT.

GENERAL NOTES:

1. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS: BANKS ENGINEERING

BANKS ENGINEERING
PROFESSIONAL ENGINEERS, PLANNERS, & LAND SURVEYORS
4161 TAMIAMI TRAIL — BLDG 5 UNIT 501
PORT CHARLOTTE, FLORIDA 33952 ENGINEERING LICENSE #EB 6469

SURVEY LICENSE #LB 6690

- 2. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.
- 3. WRITTEN DIMENSIONS TO TAKE PRECEDENCE OVER SCALE.
- 4. CALL OUT FOR FDOT INDEX COMPONENTS SHALL BE CONSIDERED THE FY 2022-23 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, UNLESS NOTED OTHERWISE.
- 5. THE LOCATION OF EXISTING PAVEMENT, VEGETATION, AND MISCELLANEOUS IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE TO CONTACT ALL UTILITY COMPANIES TO
- 6. EXISTING FACILITIES SHALL BE RESTORED TO A CONDITION EQUIVALENT OR BETTER TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION. AT NO ADDITIONAL COST
- 7. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS, (FY 2022-23), CHARLOTTE COUNTY DEVELOPMENT STANDARDS AND SPECIFICATIONS.
- 8. CONTRACTOR SHALL NOTIFY THE APPROPRIATE AGENCIES A MINIMUM OF 72 HOURS PRIOR TO ALL REQUIRED INSPECTIONS.
- CONTRACTOR TO PROVIDE SILT FENCE, STAKED SYNTHETIC BALES, TURBIDITY BARRIERS AND OTHER APPROPRIATE MEASURES TO EFFECT THE FILTRATION OF SURFACE WATER FLOWS AND TO PROVIDE EROSION PROTECTION DURING CONSTRUCTION ACTIVITIES. PROTECTION IS TO BE MAINTAINED DURING THE CONSTRUCTION PERIOD UNTIL DISTURBED SOILS HAVE BEEN STABILIZED WITH GRASS OR SUITABLE EROSION PROTECTION CONSTRUCTION AND STAGING AREAS WILL BE MAINTAINED IN A FASHION TO PREVENT EROSION OR TURBIDITY PROBLEMS. CONTRACTOR WILL MEET ALL LOCAL. STATE, AND FEDERAL WATER QUALITY REGULATIONS AND PERMIT REQUIREMENTS. ALL DISTURBED AREAS TO BE SODDED AS CONSTRUCTION IS COMPLETED.
- 10.EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
- 11.CONTRACTOR SHALL RETAIN, ON THE WORK SITE, COPIES OF ANY PERMITS NECESSARY FOR CONSTRUCTION
- 12.CONTRACTOR SHALL PROMPTLY REPORT ALL FIELD CHANGES TO THE ENGINEER.
- 13.CONTRACTOR SHALL CLEAR ALL EXCAVATION AND FILL AREAS; ACTUAL LIMITS OF CLEARING SHALL BE DETERMINED IN THE FIELD BY OWNER OR ENGINEER.
- 14.SITE GRADES MAY BE ADJUSTED IN FIELD BY ENGINEER.
- 15.THE CONTRACTOR SHALL PREPARE AND PROVIDE AS—BUILT DRAWINGS IN COMPLIANCE TO ALL AGENCIES GOVERNING PERMITS, CERTIFICATION, AND TRANSFER TO OPERATIONS STANDARDS AND SPECIFICATIONS, AS REQUIRED BY TECHNICAL SPECIFICATIONS INCLUDING ALL SIGNED & SEALED PLANS AND ELECTRONIC COPIES, WHICH SHALL BE DELIVERED TO THE ENGINEER.
- 16.CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER AND OWNER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY COST ASSOCIATED WITH OBTAINING APPROVAL FROM ANY PERMITTING AGENCY FOR PROPOSED DEVIATIONS AND WILL SUBMIT ELECTRONIC COPIES AS WELL AS SIGNED & SEALED HARD COPIES TO THE ENGINEER
- 17.ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH APPLICABLE REGULATION.

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD DETAIL NOTES:

ALL REFERENCES TO FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD INDEXES ARE FROM THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROADWAY CONSTRUCTION. THESE INDEXES WERE PREPARED BY OR AT THE DIRECTION OF FDOT AND WERE FURNISHED TO JOHNSON ENGINEERING, INC.

THE DESIGN STANDARDS REFERENCED WITHIN THIS PLAN SET HAVE BEEN INCORPORATED HEREIN VERBATIM AS SET FORTH WITHIN THE ABOVE REFERENCED FDOT DESIGN STANDARDS.

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\2023\20236128\Engineering\Drawings\236128 ABBR.dwg (2) DEA May 15, 2024

VERT

W/ W/O VERTICAL

WITHOUT

WATERWAY

e County Board of Commissioners e County, Florida County C Charlotte (Charlotte Design Park

Tippecanoe II Environmental P Walking Path De

REVISION DESCRIPTION

DATE

PROJECT NO.

GENERAL NOTES.

ABBREVIATIONS

AND LEGENDS

SHEET NUMBER

FILE NO.

SCALE:

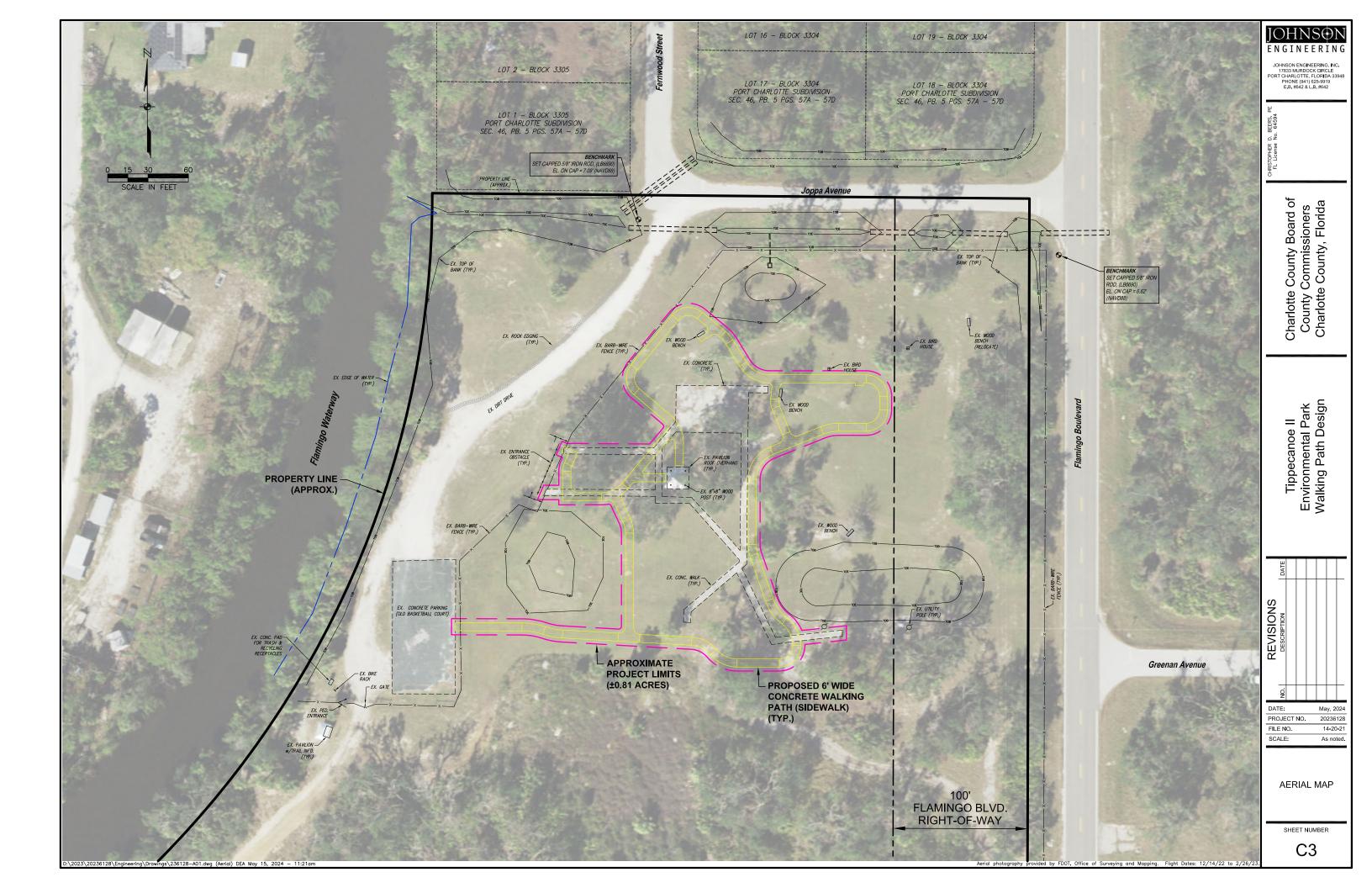
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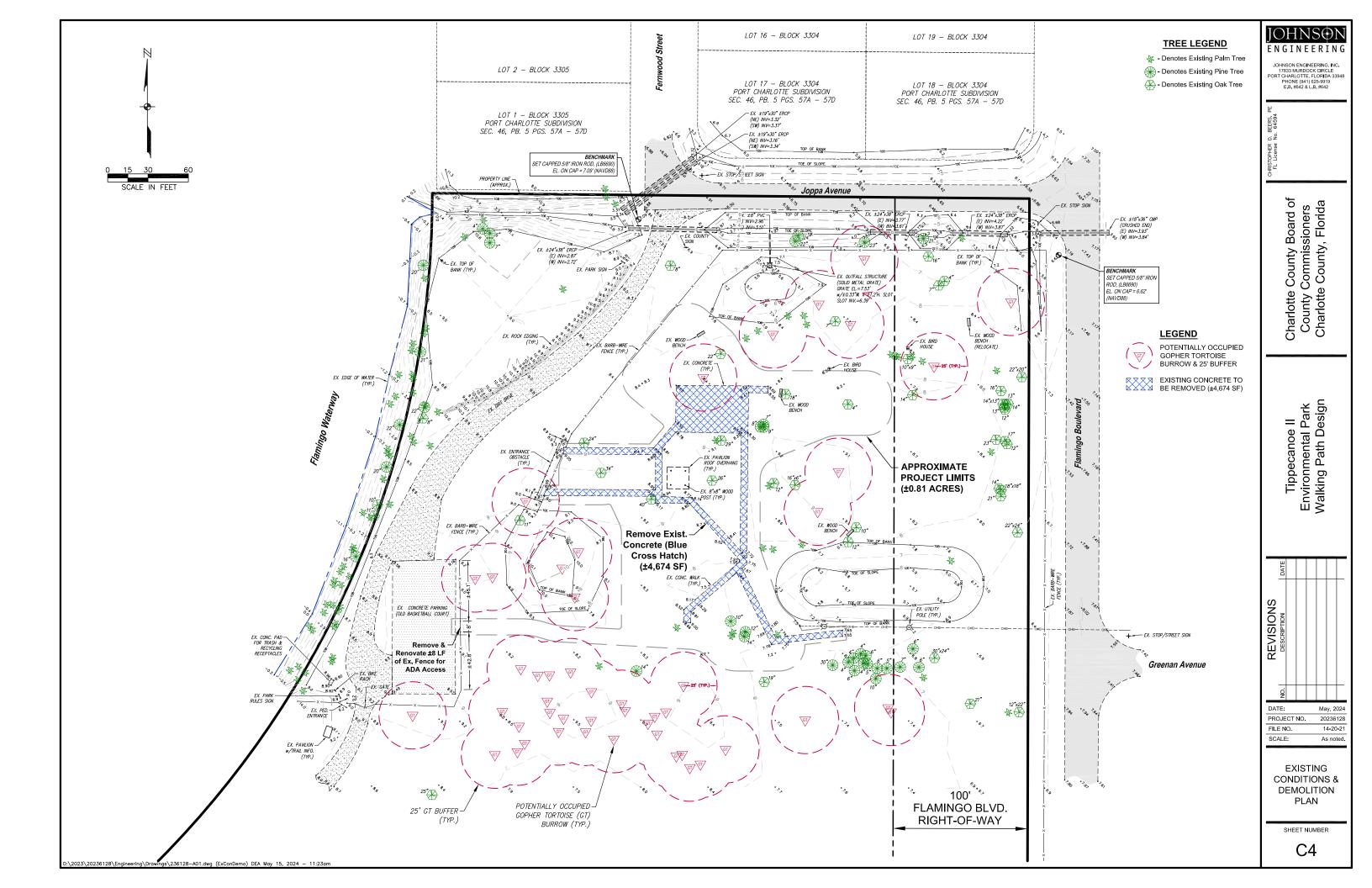
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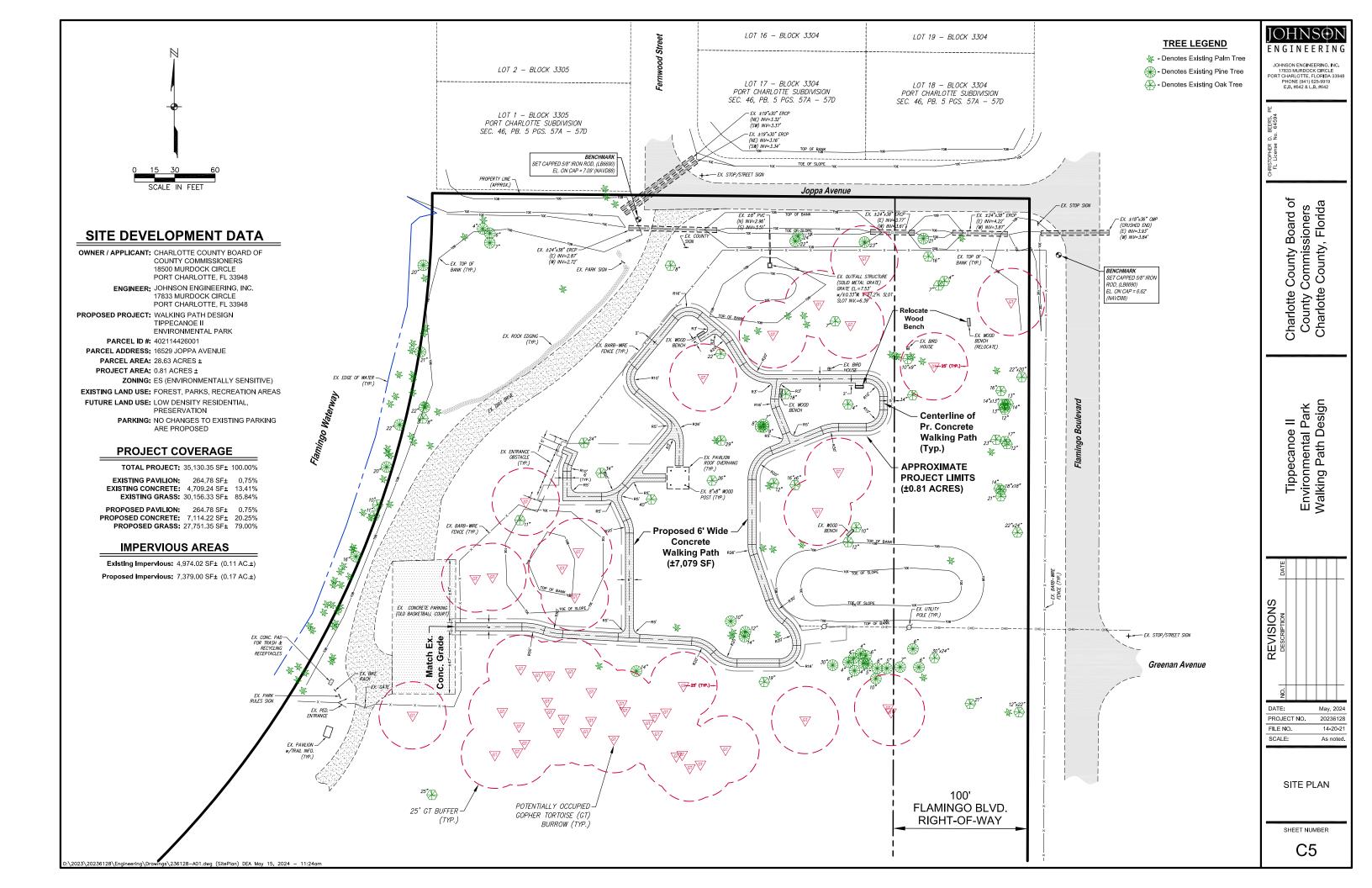
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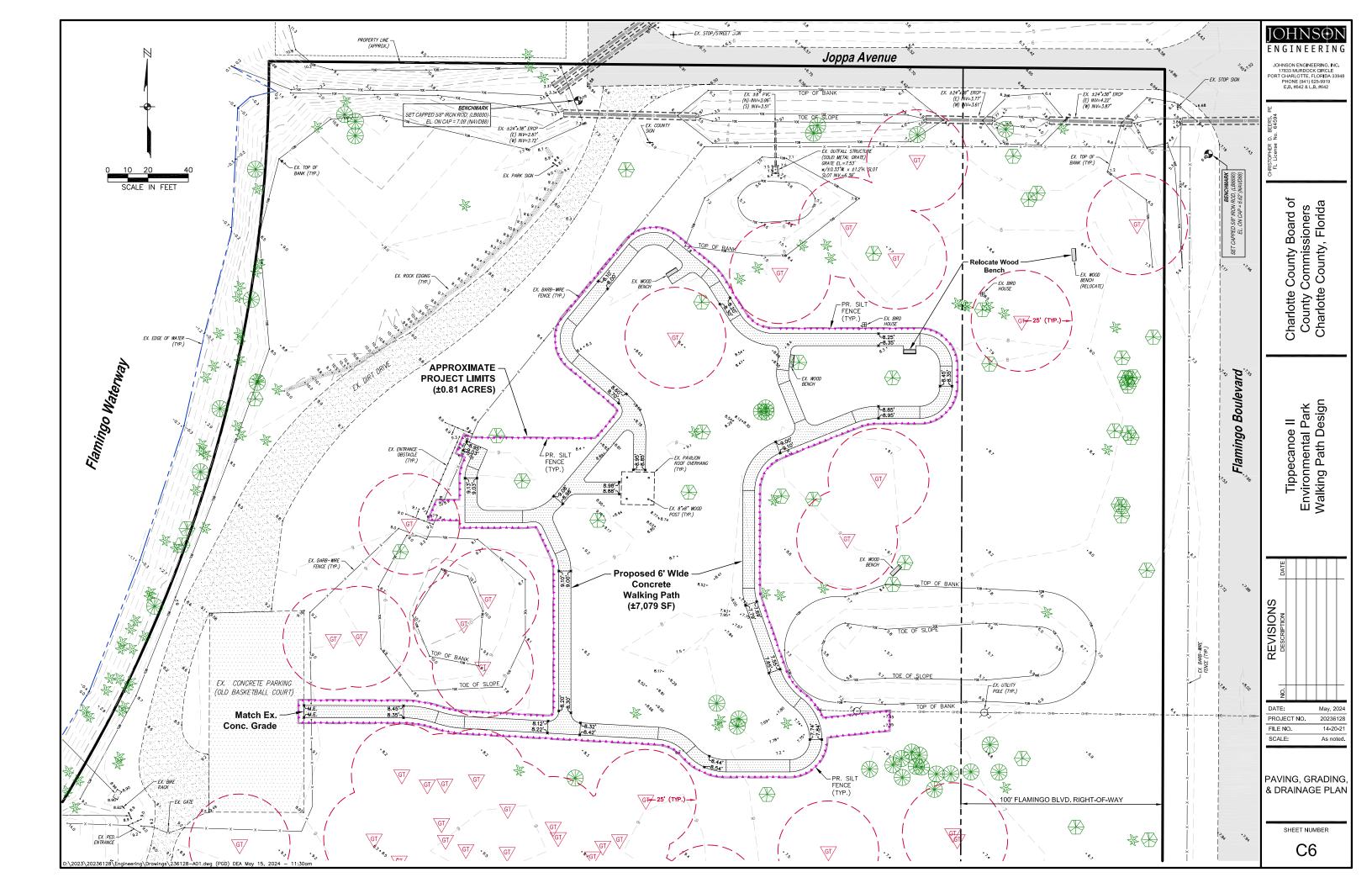
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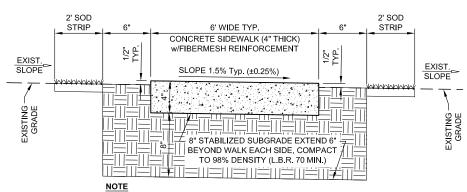
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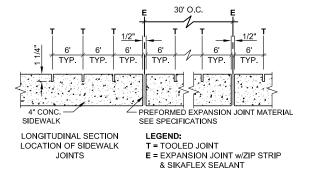




- CONCRETE TO BE FDOT CLASS I, 3,000 P.S.I. MINIMUM, WITH FIBERMESH REINFORCEMENT AND HAVE EXPANSION AND CONTRACTION JOINTS PER SPECIFICATIONS.
- INSPECTION IS REQUIRED ONCE THE SIDEWALK IS FORMED.
 2' SOD STRIP TO BE PLACED FOR POSITIVE DRAINAGE.

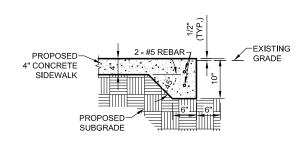
TYPICAL SIDEWALK

NOT TO SCALE



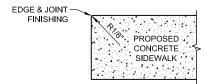
EXPANSION & TOOLED JOINTS DETAIL

NOT TO SCALE



END OF SIDEWALK DETAIL

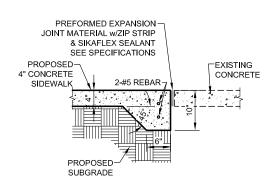
NOT TO SCALE



ALL CONCRETE SIDEWALK EDGES, INCLUDING THOSE AT FORMED JOINTS, SHALL BE FINISHED WITH AN EDGER HAVING A RADIUS OF 3 mm (1/8 INCH). TRAVERSE JOINT SHALL BE EDGED BEFORE BROOMING, AND THE BROOMING SHALL ELIMINATE THE FLAT SURFACE LEFT BY THE SURFACE FACE OF THE EDGER. CORNERS AND EDGES WHICH HAVE CRUMBLED AND AREAS WHICH LACK SUFFICIENT MORTAR FOR PROPER FINISHING SHALL BE CLEANED AND FILLED SOLIDLY WITH A PROPERLY PROPORTIONED MORTAR MIIXTURE AND THEN FINISHED.

FINISHING EDGE OF CONCRETE SIDEWALK DETAIL

NOT TO SCALE



SIDEWALK CONNECTION TO EXISTING CONCRETE DETAIL

TO SCALE

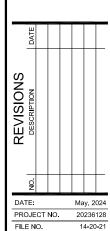
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FL License No. 64594

Charlotte County Board of County Commissioners Charlotte County, Florida

Tippecanoe II Environmental Park Walking Path Design



TYPICAL DETAILS

AS SHOWN

SCALE:

SHEET NUMBER

C7

FABRIC MATERIAL

RUNOFF

DIRECTION OF RUNOFF WATER

12-IN

POTENTIAL OF "BLOWOUTS" (NOT NEEDED IF "SLICING"

METHOD IS USED)

OF "SLICE"

SLICING METHOD

ATTACHING TWO SILT FENCES

WHEN TRENCHING IS USED

1

12-IN

(MINIMUM)

AT LEAST 180 DEGREES IN A

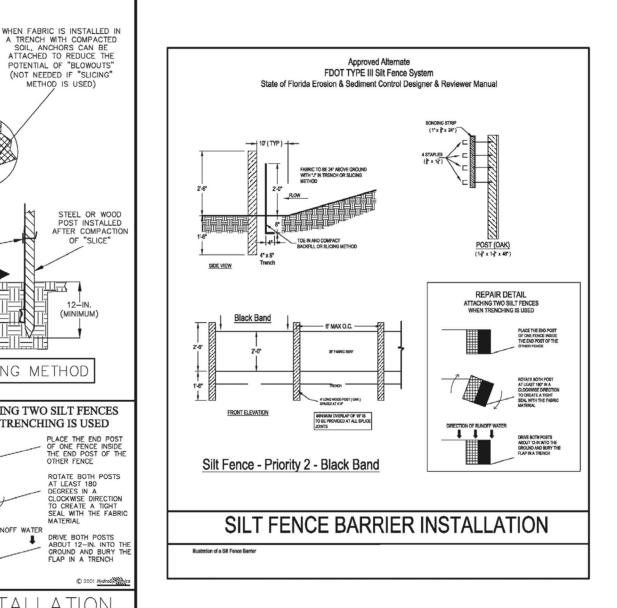


Figure V-3: Illustration of Silt Fence Priority 2 - Black Band

Figure V-2: Illustration of a Silt Fence Barrier

FABRIC MATERIAL MUST BE PLACED IN A 6-IN.

TRENCHING METHOD

BACKFILLING AND COMPACTING THE SOIL.

Spacing of Posts:

24-IN. MINIMUM, HEIGHT

BACKFILL TRENCH

WOOD OR STEEL POST

INSTALLED BEFORE COMPACTING BACKFILL

됴ᆜ

12-IN.

(MINIMUM)

MATERIAL

Up to 6 feet apart for Type 3

Up to 10 feet apart for Type 4

FABRIC MATERIAL MUST BE SECURELY FASTENED TO THE POSTS OR (IF USED) TO THE WIRE MESH

COMPACTED

RUNOFF

BACKFILL MATERIAL

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V-7

FENCE BARRIER INSTALLATION

V-10

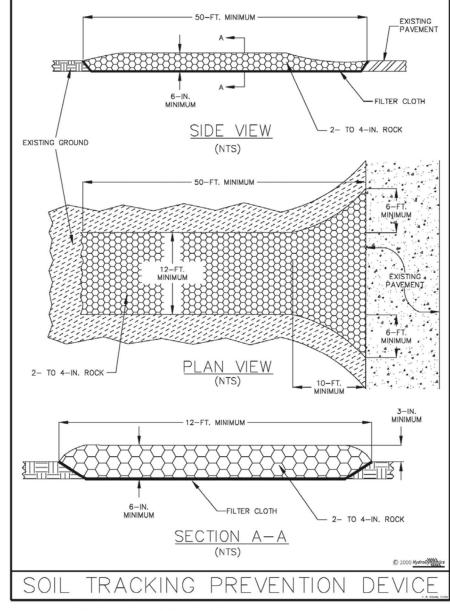


Figure V-19: Illustration of a Soil Tracking Prevention Device

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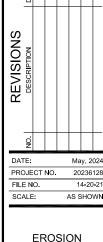
V-44

THIS DRAWING CONTAINS DETAILS DESIGNED BY, STANDARD TO, AND FURNISHED BY FLORIDA DEPARTMENT OF TRANSPORTATION

SEE THE FLORIDA DEPARTMENT OF TRANSPORTATION WEBSITE FOR FURTHER INFORMATION, DETAILS AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER & REVIEWER MANUAL.

Charlotte County Board of County Commissioners Charlotte County, Florida Tippecanoe II Environmental Park Walking Path Design

JOHNSON ENGINEERING, INC. 17833 MURDOCK CIRCLE PORT CHARLOTTE, FLORIDA 33948 PHONE (941) 625-9919 E.B. #642 & L.B. #642



SHEET NUMBER

CONTROL **DETAILS**

C8