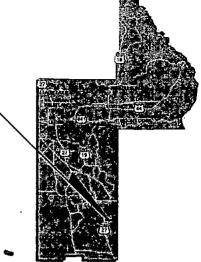


CONTRACT PLANS

HARTWOOD MARSH ROAD - PHASE I FROM SR 25 (US 27) TO HANCOCK ROAD 1149543.

PROJECT LOCATION



RECEIVED IN

ALTAMONTE SPRINGS

REGULATORY INFORMATION MGT.

> ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

COUNTY COMMISSIONERS: LINDA STEWART DEBBIE STIVENDER

COUNTY MANAGER: CINDY HALL

JENNIFER HILL

ELAINE RENICK WELTON CADWELL

KAREN M. VAN DEN AVONT, PE HNTB CORPORATION 300 PRIMERA BOULEVARD, SUITE 200 LAKE MARY, FLORIDA 32746

PLANS PREPARED BY:

HNTB CORPORATION 300 PRIMERA BOULEVARD, SUITE 200 LAKE MARY, FL 32746 PHONE: (407) 805-0355 FAX: 407-805-0227 CERT. OF AUTH. NO. 6500 VENDOR NO. : V98567003

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

ENGINEER OF RECORD: KAREN M. VAN DEN AVONT, PE

P.E. NO.: 44794

SHEET NO.

INDEX OF ROADWAY PLANS

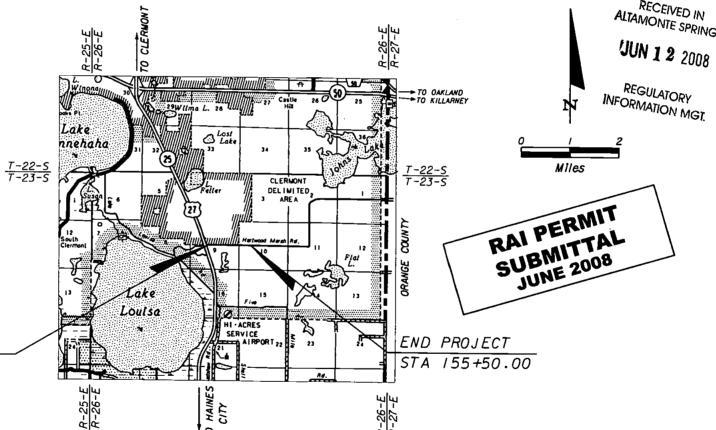
SHEET NO.	SHEET DESCRIPTION		
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GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION. DESIGN STANDARDS DATED JANUARY 2008, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007. AS AMENDED BY CONTRACT DOCUMENTS.

BEGIN PROJECT STA 103+29.11

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 01-01-08

For Design Standards Modifications click on "Design Standards" of the following web site: http://www.dot.stote.fl.us/rddesign/



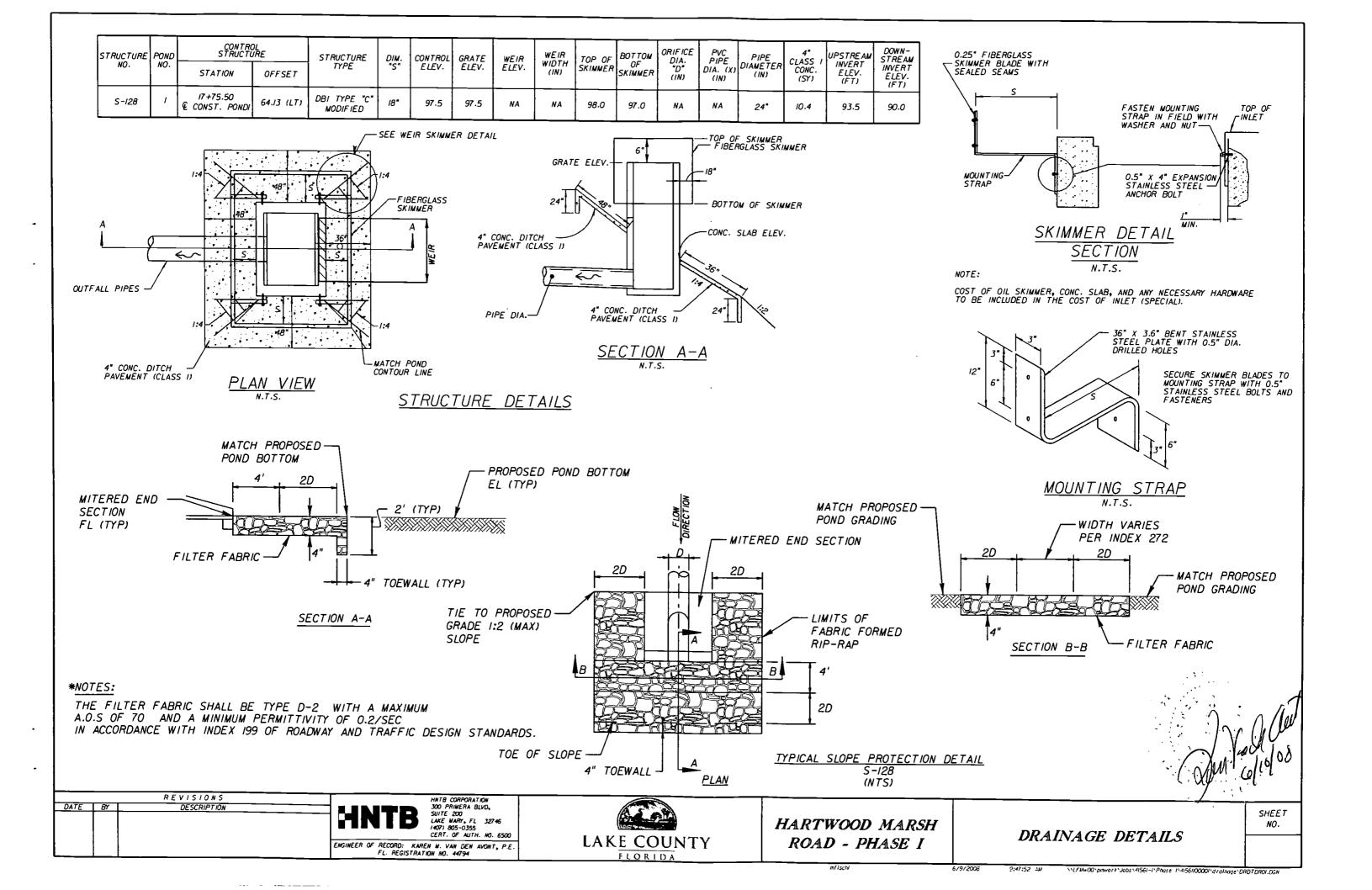
PROJECT LENGTH IS BASED ON & OF CONSTRUCTION

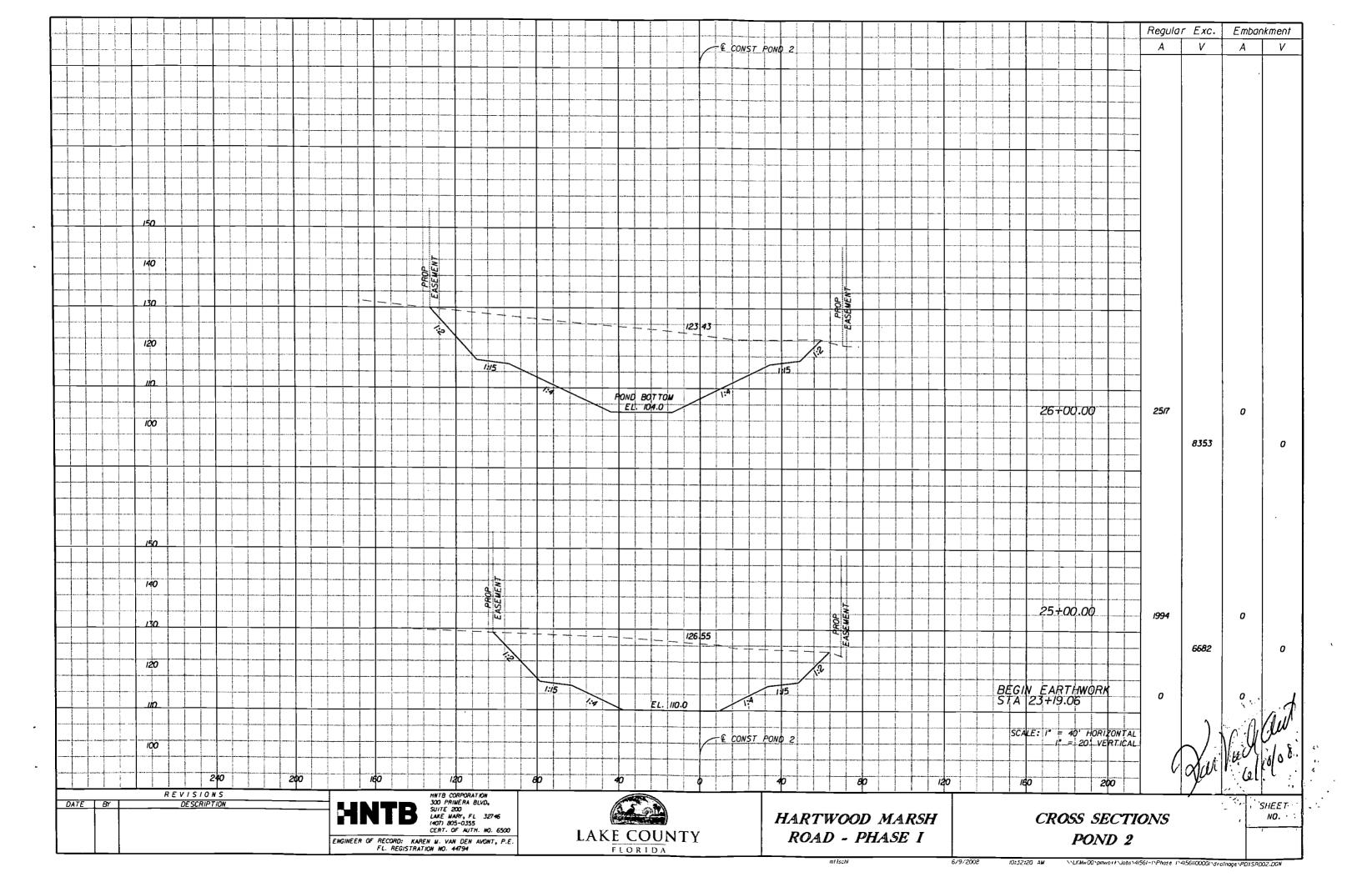
LENGTH OF PROJECT			
	LINEAR FEET	MILES	
ROADWAY	5220.89	0.988	
BRIDGES	0.00	0.000	
NET LENGTH OF PROJECT	5220.89	0.988	
EXCEPTIONS	0.00	0.000	
GROSS LENGTH OF PROJECT	5220.89	0.988	

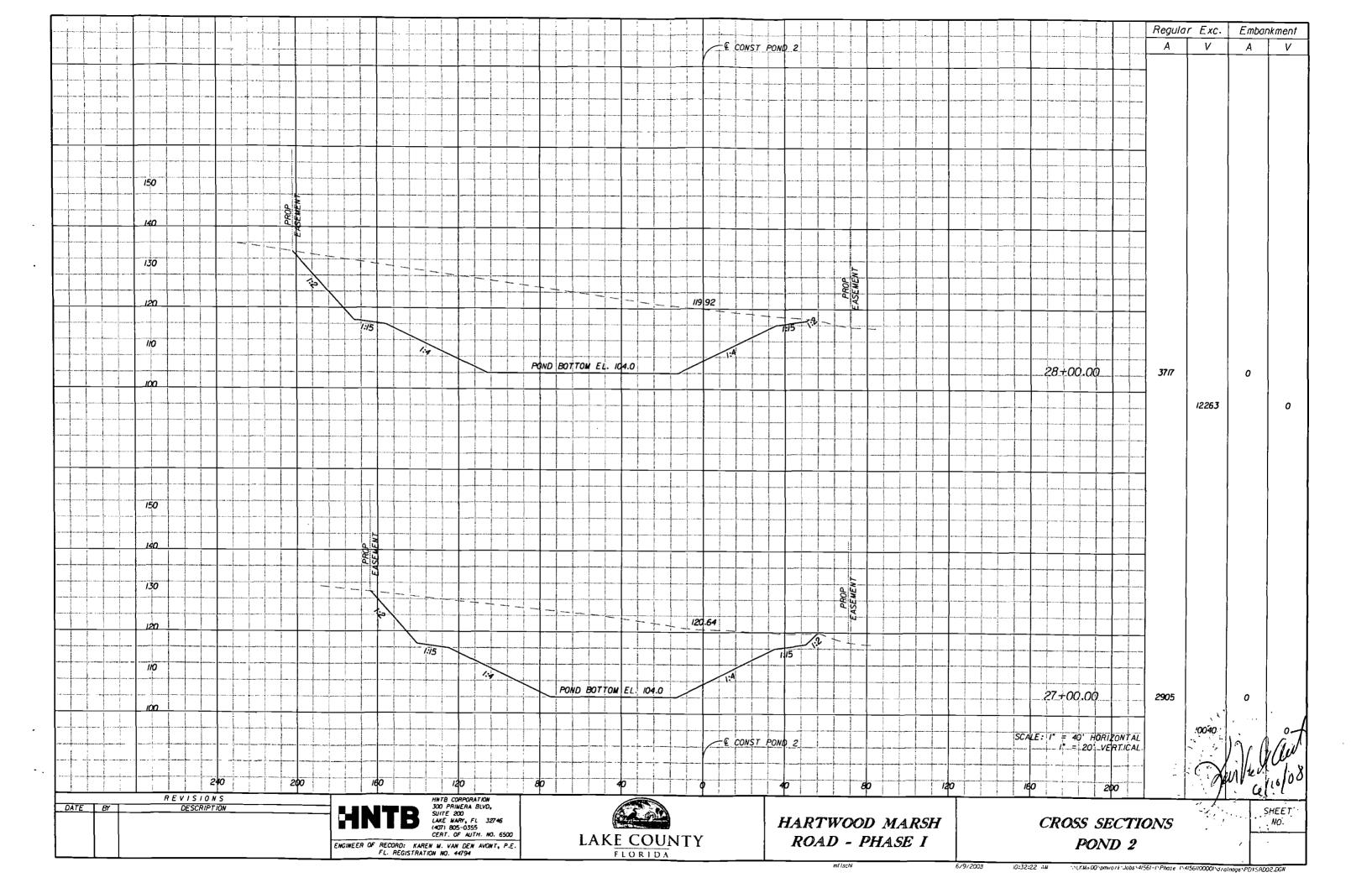
LAKE COUNTY PROJECT MANAGER: THOMAS MCCANN, PE

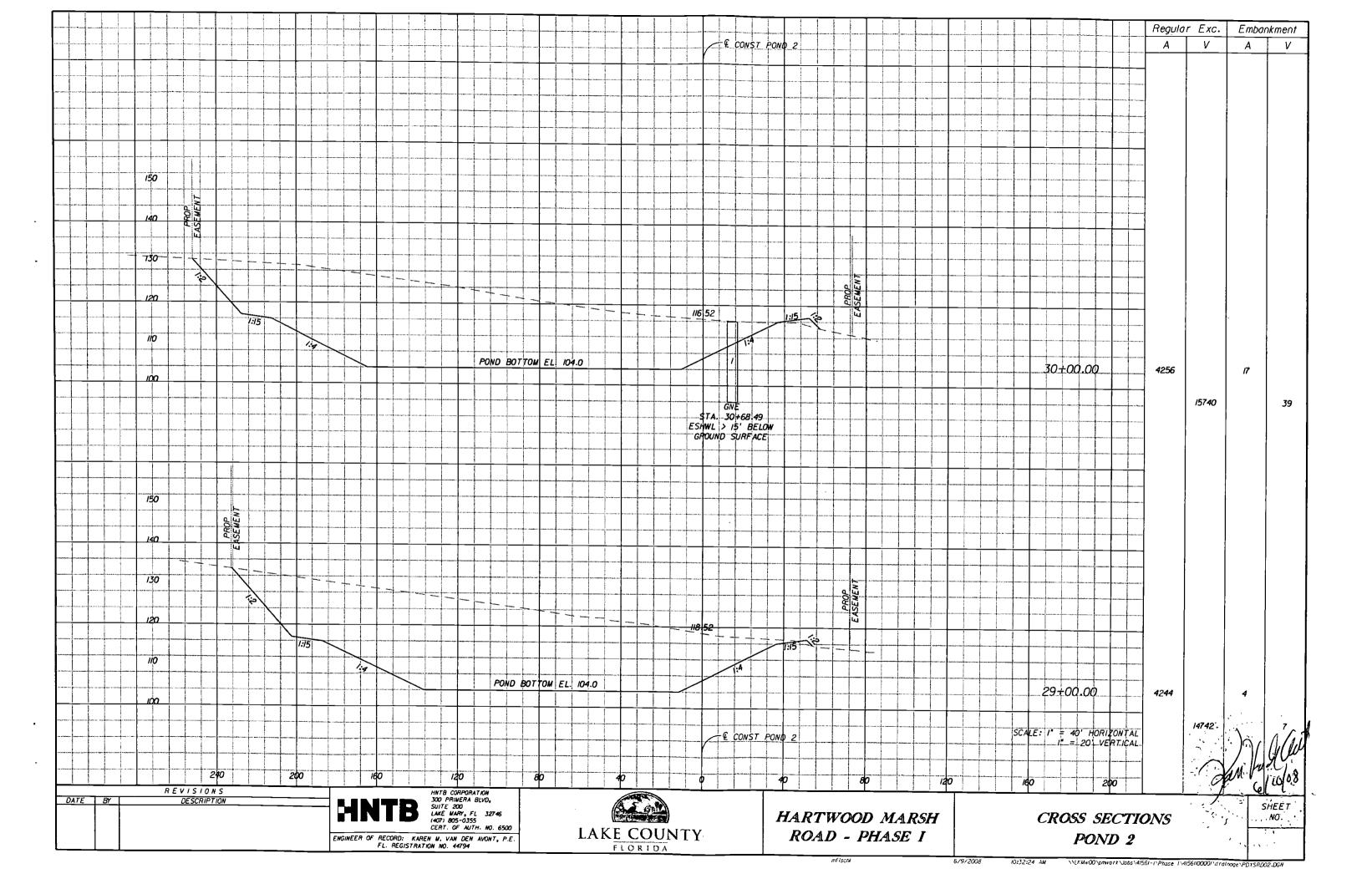
KEY SHEET REVISIONS

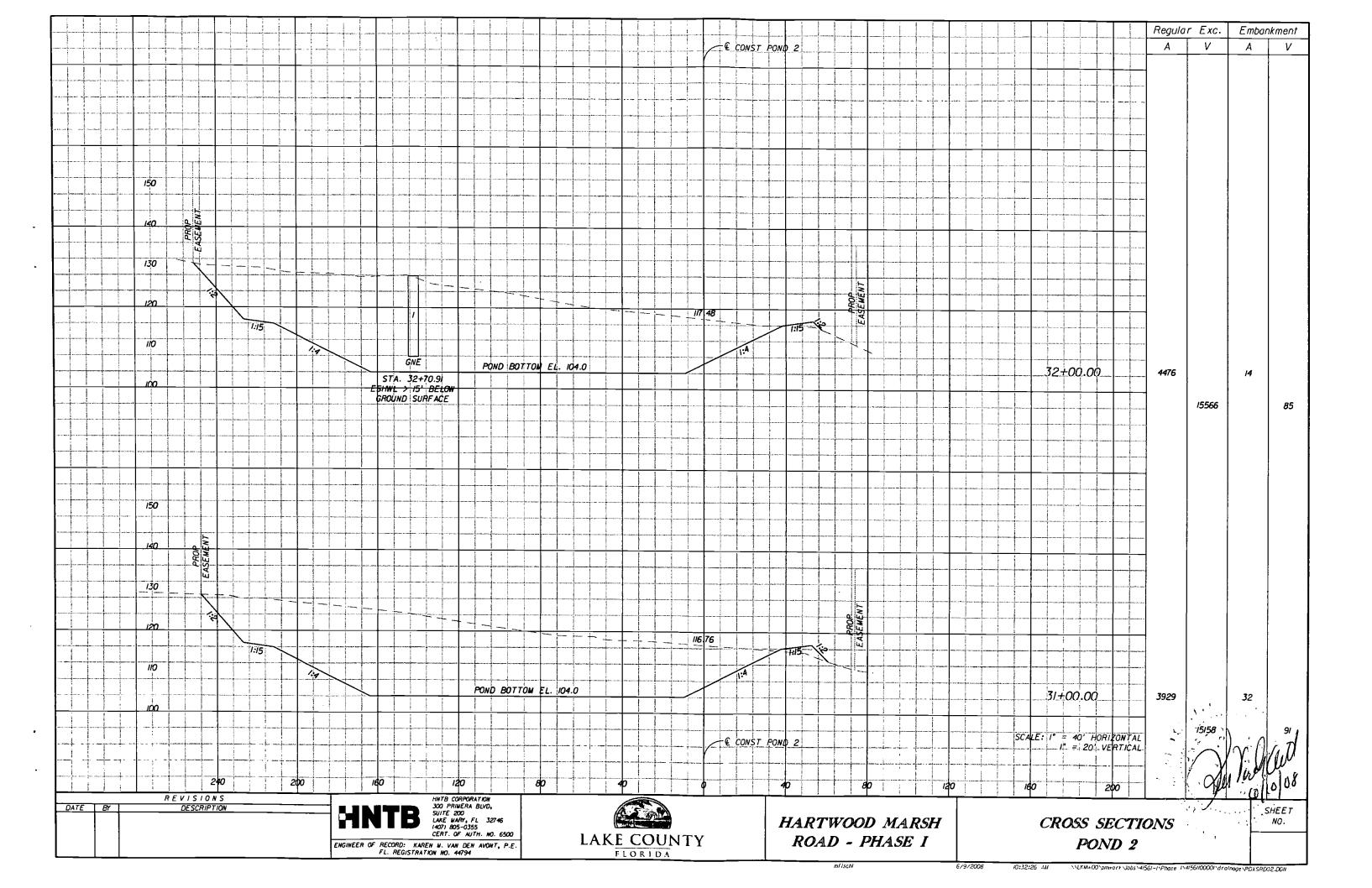
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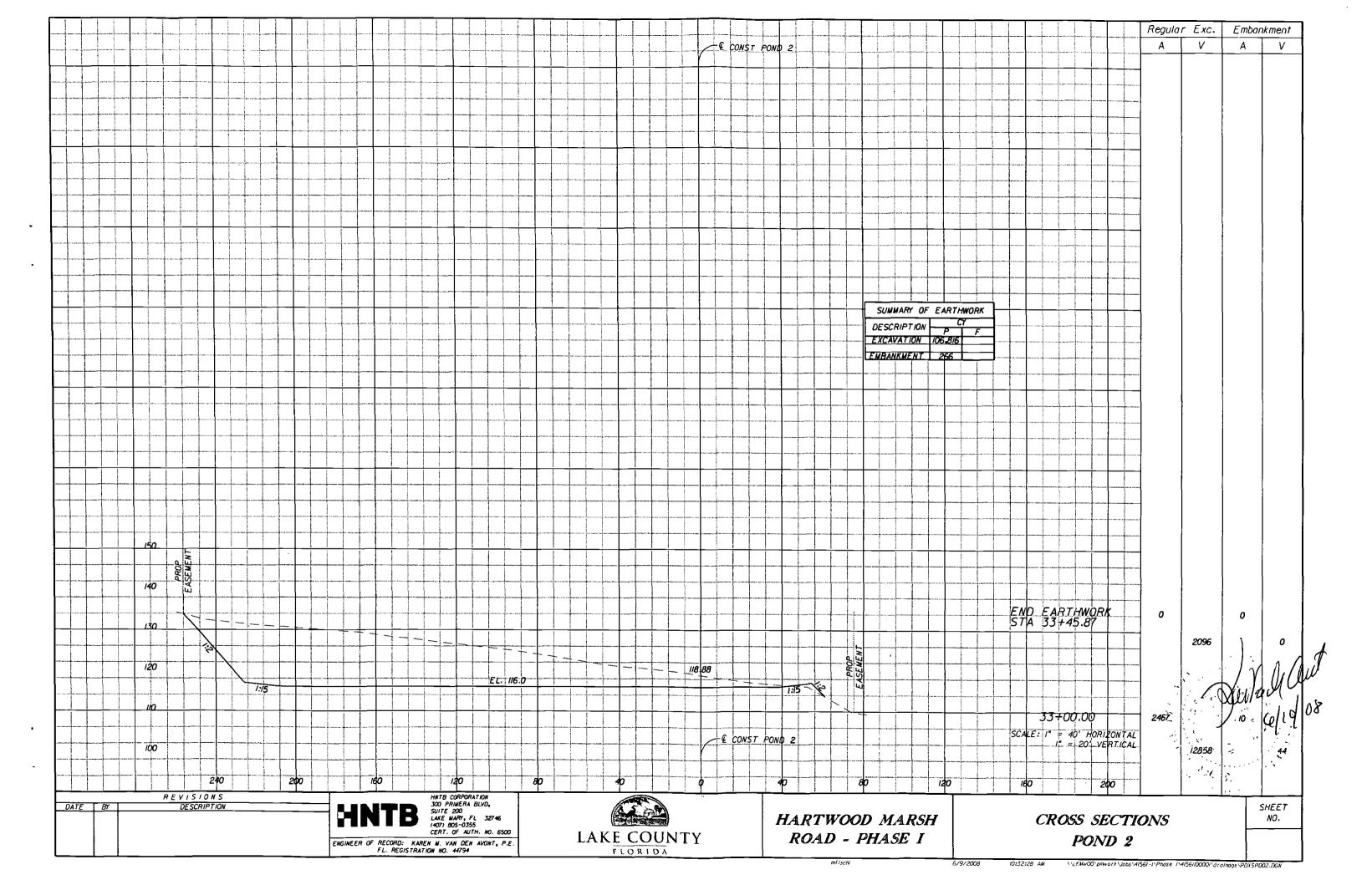












I. SITE DESCRIPTION

A. CONSTRUCTION ACTIVITY THE CONSTRUCTION ACTIVITIES INCLUDE REMOVING THE EXISTING PAVEMENT IN PHASES AND CONSTRUCTING THE PROPOSED URBAN FACILITY. CONSTRUCTION ACTIVITIES INCLUDE CLEARING AND GRUBBING, PAVEMENT REMOVAL, REMOVAL OF THE EXISTING DRAINAGE SYSTEMS AND CONSTRUCTION OF NEW DRAINAGE SYSTEMS WITH TWO DRY DETENTION PONDS.

PROJECT LIMITS STA. 103+29.11 TO STA. 162+21.77 CENTERLINE OF CONSTRUCTION, IN SECTIONS 9 & 10; TOWNSHIP 25 SOUTH; RANGE 26 EAST.

PROJECT DESCRIPTION

THE CONSTRUCTION ACTIVITIES WILL TAKE PLACE OVER 1.119 MILE LENGTH OF HARTWOOD MARSH ROAD IN LAKE COUNTY. THE EXISTING ROADWAY BETWEEN US 27 AND 1500 FT EAST OF S. HANCOCK ROAD WILL BE RECONSTRUCTED AS A FOUR LANE URBAN ROADWAY. STDRM WATER WILL BE CONVEYED IN NEW STORM SEWER TD DETENTION

B. MAJOR SOIL DISTURBING ACTIVITIES SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING AND GRUBBING TO PREPARE FOR RECONSTRUCTION OF HARTWOOD MARSH ROAD AND CONSTRUCTION OF A NEW ROADWAY, CONSTRUCTION OF STORM SEWER, AND CONSTRUCTION OF 2 STORM WATER PONDS. THE PROJECT WILL BE CONSTRUCTED IN PHASED CONSTRUCTION TO LIMIT THE EXPOSED SOIL ON THE PROJECT.

- C. TOTAL PROJECT AREA: 27.90 ACRES TOTAL AREA TO BE DISTURBED: 27.90 ACRES
- D. (I) RUNOFF COEFFICIENTS BEFORE. OURING AND AFTER CONSTRUCTION:

RUNOFF COEFFICIENT FOR: GRASSED AREA ADJACENT TO PAVEMENT, C=0.20 IMPERVIOUS SURFACE, C=0.95 DISTURBED AREAS OURING CONSTRUCTION, C=0.42

BEFORE CONSTRUCTION C = 0.23 - 0.74DURING CONSTRUCTION (VARIES)

- (2) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE: SOILS WITHIN THE PROJECT AREA ARE DESCRIBED IN GENERAL AS PREDOMINANTLY IN SITU SOILS INCLUDING ASTATULA SAND, DARK SURFACE. DETAILED DATA IS SUPPLIED IN THE ROADWAY SOIL SURVEY REPORT PERFORMED BY ARDAMAN & ASSOCIATES, INC.
- (3) ESTIMATES OF SIZE OF DRAINAGE AREA FOR EACH OUTFALL:
 THE PROPOSED BASIN I SYSTEM OUTFALLS TO POND I WHICH OUTFALLS TO AN UNNAMED LAKE VIA PROPOSED PIPES. THE PROPOSED BASIN 2 SYSTEM OUTFALLS TO THE REGENCY HILLS STORM WATER MANAGEMENT SYSTEM.

UNNAMED LAKE (BASIN I, NO OUTFALL)
POND 2 (BASIN 2, TOTAL RETENTION) 45.07 AC

E. FOR LOCATIONS OF DRAINAGE AREAS AND OUTFALLS SEE DRAINAGE REPORT AND CONSTRUCTION PLANS.

POND I DISCHARGES TO UNNAMED LAKE

LATITUDE 28° 29' 51° LONGITUDE 81° 42' 41"

F. (1) NAME OF RECEIVING WATERS: UNNAMED LAKE

(2) WETLAND AREA: NOT APPLICABLE

CONTROLS

NARRATIVE - SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS. CONSTRUCTION ACTIVITIES ON THIS PROJECT CONSIST OF FIVE (5) DISTINCT

ALL ITEMS REPRESENTED IN THE FOLLOWING DISCUSSION ARE DETAILED IN THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND WILL BE IMPLEMENTED BY THE ENGINEER IN A MANNER APPROPRIATE TO ENVIRONMENTALLY SENSITIVE CONSTRUCTION PRACTICES.

2.1 THE CONTRACTOR WILL BE REQUIRED TO PREPARE A SITE-SPECIFIC EROSION CONTROL PLAN. THE CONTRACTOR WILL ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS. THE PLAN WILL INCLUDE:

THE CONSTRUCTION PROJECT SCHEOULE WITH EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE TIED TO SPECIFIC DATES OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR'S EROSION CONTROL PLAN WILL BE UTILIZED AS THE FIRST FORMAL UPDATE TO THE SWPPP.

NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24-HOUR BASIS.

THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO UPDATE THE SWPPP TO REFLECT ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL, RECEIVING WATER, OR OTHERWISE VIDLATING STATE AND FEDERAL PERMIT REQUIREMENTS.

2.2 CLEARING AND GRUBBING OPERATIONS ARE TO BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. AREAS OUTSIDE THE LIMITS OF CONSTRUCTION WILL NOT BE DISTURBED. MILLING AND RESURFACING ACTIVITIES WILL BE CONDUCTED IN A LINE FASHION ON THE EXISTING PAVEMENT. NO CONSEQUENTIAL QUANTITIES OF EXPOSED SOIL WILL RESULT FROM THIS ACTIVITY.

2.3 THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL OURING MILLING OPERATIONS. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES. ROADWAY SWEEPERS WILL ALSO BE USED IN CONJUNCTION WITH MILLING OPERATIONS. ALL TRUCKS WILL REQUIRE A COVERED BED.

2.4 WIDENING OF THE ROADWAY WILL REQUIRE GRADING. ROAD WIDENING WITH STORM SEWER AND DETENTION POND CONSTRUCTION WILL REQUIRE UTILITY RELOCATIONS.

2.5 THE EROSION CONTROL DEVICES FOR THESE ACTIVITIES ARE SPECIFIED IN THE PLANS AND ACCORDING TO THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 104. SPECIFICALLY, SYNTHETIC HAY BALES WILL BE USED AROUND DITCH BOTTOM INLETS AND BACK OF SIDEWALK INLETS WHEN CONSTRUCTION ACTIVITIES ARE TAKING PLACE IN THE AREA, AND WHERE RUNOFF MAY LEAVE THE CONSTRUCTION SITE, AS NEEDED. STAKED SILT FENCES WILL BE INSTALLED AROUND ALL EXISTING PIPE CULVERTS. FOR SUMMARY OF EROSION CONTROL MEASURES SEE SUMMARY OF QUANTITIES SHEFT.

A. EROSION AND SEDIMENT CONTROLS
(I) STABILIZATION PRACTICES
____ TEMPORARY SODDING

TEMPORARY GRASSING

X_ PERMANENT PLANTING, SODDING, OR SEEDING
TEMPORARY MULCHING

___ ARTIFICIAL COVERING

___ BUFFER ZONES
X PRESERVATION OF NATURAL RESOURCES

STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE, BUT IN NO CASE AFTER MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR

PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER ANY DISTURBED AREA IMMEDIATELY AFTER ANY DISTURBED AREA IMMEDIATELY DISTURBED AREA IMMEDIATELY DISTURBED AREA IMMEDIATELY DISTURBED AREA IMMEDIATELY DISTURBED. AFTER GRADING OPERATION, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED.
ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

(2) STRUCTURAL PRACTICES

___ SAND BAGGING _X_ SILT FENCES

X SYNTHETIC HAY BALES

X ROCK BAGS

___ BERMS ___ DIVERSION, INTERCEPTOR, OR PERIMETER DITCHES

PIPE SLOPE DRAINS ___ FLUMES

ROCK BEDDING AT CONSTRUCTION EXIT ___ TIMBER BEDDING AT CONSTRUCTION EXIT ___ DITCH LINER

___ SEDIMENT TRAPS

SEDIMENT BASINS
STORM INLET SEDIMENT TRAP _X_ STORM OUTLET STRUCTURES _X_ CURBS AND GUTTERS _X_ STORM SEWERS

--- VELOCITY CONTROL DEVICES
-X TURBIDITY BARRIER
-X RIP RAP

___ DITCH BLOCKS

THE DEVICES INDICATED ABOVE WILL BE IMPLEMENTED ACCORDING TO THE MANDATES AND STANDARD PRACTICES. OTHER STRUCTURAL PRACTICES MAY BE IMPLEMENTED AT THE DIRECTION OF THE ENGINEER.

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY EROSION CONTROL, INCLUDING BUT NOT LIMITED TO SILT FENCES, SYNTHETIC HAY BALES, TURBIDITY BARRIERS AND ANY OTHER; MISCELLANEOUS ITEMS AS INDICATED WITHIN THE CONTRACT DOCUMENTS, CONTRACTOR'S EROSION CONTROL PLAN, OR AS REQUIRED PER APPLICABLE STANDARDS OR THE ENGINEER.

B. DESCRIPTION OF STORM WATER MANAGEMENT STORM WATER COLLECTION AND TREATMENT WILL BE PROVIDED FOR ON THE PROJECT UTILIZING THE INLETS AND STORM SEWER AND DRY DETENTION PONDS

C. OTHER CONTROLS
(I) WASTE DISPOSAL

(I) WASTE DISPUSAL
THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT
BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ALL FERTILIZER, HYDROCARBON OR
OTHER CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO
EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. DETAILED ELEMENTS
OF WASTE DISPOSAL CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S

- (2) OFFSITE VEHICLE TRACKING

 ---- HAUL ROADS DAMPENED FOR OUST CONTROL

 -X_ LOADED HAUL TRUCKS TO BE COVERED WITH TARPAULIN

 -X_ EXCESS DIRT ON ROAD REMOVED DAILY
 - X_ STABILIZED CONSTRUCTION ENTRANCE

DETAILED ELEMENTS DF OFFSITE VEHICLE TRACKING CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S EROSION CONTROL PLAN (ECP).

(3) SANITARY WASTE

(3) SANITARY WASTE

FIELD OFFICES MAY HAVE CONNECTIONS TO MUNICIPAL SEWAGE TREATMENT IF

AVAILABLE. IF MUNICIPAL SEWAGE TREATMENT IS NOT AVAILABLE THE CONTRACTOR WILL

PROVIDE FOR SEWAGE TREATMENT IN ACCORDANCE WITH F.A.C. 64E-6 "STANDARDS FOR

ON-SITE SEWAGE DISPOSAL SYSTEMS." DETAILED ELEMENTS OF SANITARY WASTE

CONTROLS ARE TO BE DEVELOPED AS PART OF THE CONTRACTOR'S ECP.

(4) FERTILIZERS AND PESTICIDES
FERTILIZERS: FERTILIZERS WILL BE USED ON THIS PROJECT IN ACCORDANCE WITH
FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007) SECTION
982, AT THE DISCRETION OF THE CONTRACTOR WITH COORDINATION OF THE ENGINEER.
DETAILED ELEMENTS OF FERTILIZER AND PESTICIDE CONTROLS ARE TO BE DEVELOPED
AS PART OF THE CONTRACTOR'S ECP.

PESTICIDES: NONE REQUIRED

(5) NON-STORM WATER DISCHARGE, INCLUDING SPILL REPORTING
THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN
THE SECTION 104 EROSION CONTROL PLAN. WHEN THE CONTRACTOR ENCOUNTERS A SPILL,
CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE PROJECT
ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY
REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION.

D. APPROVED STATE, LOCAL PLANS OR STORM WATER PERMIT(S). ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT REQUIRES A STANDARD GENERAL ENVIRONMENTAL RESOURCE PERMIT.

3. MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL DEVICES AND PRACTICES THROUGHOUT THE CONSTRUCTION PHASE OF THE PROJECT. REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY. MAINTENANCE SHALL BE CONDUCTED IN ACCORDANCE WITH THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007), SECTION 104 AND "FDOT DESIGN STANDARDS" INDICES 100-105.

THE CONTRACTOR IS REQUIRED TO INSPECT ALL EROSION CONTROL FEATURES AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5 INCHES OR GREATER. IN ADDITION, MAINTAIN ALL EROSION CONTROL FEATURES AS REQUIRED HEREIN AND AS SPECIFIED IN STATE AND/OR FEDERAL ENVIRONMENTAL REGULATORY PERMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE DAILY REVIEW OF THE LOCATION OF SILT FENCES IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CHANGED THE NATURAL CONTOUR AND DRAINAGE RUNOFF TO ENSURE THAT SILT FENCES ARE PROPERLY LOCATED FOR EFFECTIVENESS. THE CONTRACTOR WILL USE FOOT FORM 650-040-03 TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH INSPECTION REPORT. AND SUBMIT IT WEEKLY TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL. WHERE SITES HAVE BEEN FINALLY STABILIZED, INSPECTIONS SHALL BE CONOUCTED AT (EAST) ONCE A MONTH.

STORMWATER POLLUTION PREVENTION PLAN

REVISIONS DESCRIPTION DATE BY

HNTB CORPORATION 300 PRIMERA BLVO, SUITE 200 LAKE MARY, FL 32746 (407) 805-0355

CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: KAREN W. VAN DEN AVONT, P.E. FL. REGISTRATION NO. 44794

HARTWOOD MARSH ROAD - PHASE I