



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
**JACKSONVILLE DISTRICT CORPS OF ENGINEERS**  
**POST OFFICE BOX 4970**  
**JACKSONVILLE, FLORIDA 32232**

**August 13, 2020**

Regulatory Division  
North Permits Branch  
Jacksonville Permits Section

***PUBLIC NOTICE***

Permit Application Number SAJ-2002-02708 (SP-TMM)

TO WHOM IT MAY CONCERN: The Jacksonville District of the U.S. Army Corps of Engineers (Corps) has received an application for a Department of the Army permit pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) and Section 404 of the Clean Water Act (33 U.S.C. §1344) as described below:

APPLICANT: City of Jacksonville  
Attn: William Joyce, Operations Director  
214 North Hogan Street, 10<sup>th</sup> Floor  
Jacksonville, Florida 32202

WATERWAY AND LOCATION: The project would affect waters of the United States (wetlands) hydrologically connected to Deep Bottom Creek and the St. Johns River. The project site is located approximately 0.40 acre west of the intersection of Hartley Road and Old St. Augustine Road on the west side of Hartley Road, in Sections 5, Township 4 South, Range 27 East, Jacksonville, Duval County, Florida.

Directions to the site: From the Interstate 295 east beltway, take the Old St. Augustine Road exit and travel north on Old St. Augustine Road. At the Hartley Road and Old St. Augustine Road intersection, take a left and travel west for approximately 0.40 mile. The project site location is located on the south side of Hartley Road.

APPROXIMATE CENTRAL COORDINATES: Latitude 30.18398°  
Longitude -81.61482°

**PROJECT PURPOSE:**

Basic: The basic project purpose is to improve stormwater management.

Overall: The overall project purpose is to improve stormwater management to alleviate flooding in the residential neighborhood in the Mandarin area of Jacksonville, Duval County, Florida.

**EXISTING CONDITIONS:**

a. General: The site is 5.06 acres. Site specific elevation for the project area shows elevations between 35-55 feet NGVD, with the highest elevations located along the eastern edge of the property. Hydrology onsite generally flows in the west-south west direction across the site where it then flows offsite into a drainage ditch that drains south leading to the Deep Bottom Creek system.

b. Soils: The Soil Survey of the City of Jacksonville, Florida (U.S. Department of Agriculture, Soil Conservation Service) identifies five different soil types on the subject project site. The soils map appears to be generally accurate based upon field observations, though disturbance was noted in some areas. A description of each soil type can be found below:

(1) Pelham fine sand, 0 to 2 percent slopes (51). Pelham fine sand is a nearly level, poorly drained soil found in flats. Generally, the high water table is at a depth of less than 12 inches during normal years. The surface layer is very dark gray fine sand about six inches thick. The underlying layer consists of grayish brown fine sand extending from 6 to 14 inches.

(2) Sapelo fine sand, 0 to 2 percent slopes (63). Sapelo fine sand is a nearly level, poorly drained soil found in flatwoods. Generally, the high water table is at a depth of 6 to 18 inches from January through October. The surface layer is black fine sand about three inches thick. The underlying layers consist of dark gray fine sand extending from three to six inches, and light brownish gray fine sand extending from 6 to 23 inches.

(3) Surrency loamy fine sand, depressional, 0 to 2 percent slope (66). Surrency loamy fine sand is a nearly level, very poorly drained soil found in depressions. Generally, the high water table is at or above the soil surface for very long periods

c. Vegetative Communities: This site contains four generalized community types/land use. The following community descriptions are derived from the Florida Land Use, Cover and Forms Classification System (FLUCFCS) handbook (Florida Department of Transportation Surveying and Mapping Office Thematic Mapping Section. January 1999). Detailed descriptions of each on-site community are found is below:

(1) Pine-Mesic Oak: 3.15 acres (FLUCFCS 414) - This land type exists throughout the majority of the parcel. Canopy and subcanopy species include loblolly pine (*Pinus taeda*), slash pine (*Pinus elliotii*), red maple (*Acer rubrum*), camphor (*Cinnamomum camphora*), water oak (*Quercus nigra*), and Chinese tallow (*Triadica sebifera*). Understory and groundcover include wax myrtle (*Morella cerifera*), coral ardesia (*Ardisia crenata*), black berry (*Rubus* sp.), azalea (*Rhododendron* sp.), and Boston sword fern (*Nephrolepis* sp.).

(2) Streams and Waterways: 1.12 acres (FLUCFCS 510) - This land type exists in the form of upland cut ditches within the property. There are ditches that run south from Hartley Rd to approximately halfway into the parcel. In addition, there are ditches just outside the parcel boundary along the north, west, and south perimeters of the parcel.

(3) Wetland Forested Mixed 0.57 acres (FLUCFCS 630) - This land type is located in the northwest corner of the parcel and makes up the only wetland within the parcel. Canopy species include loblolly pine, bald cypress (*Taxodium distichum*), laurel oak (*Quercus laurifolia*), and water oak. Subcanopy species include camphor, water oak, and bald cypress. Understory and groundcover include wax myrtle, royal fern (*Osmunda regalis*), Virginia chainfern (*Woodwardia virginica*), Boston sword fern, cinnamon fern (*Osmunda cinnamomea*), and various sedge species (*Carex* spp.).

(4) Roads and Highways 0.22 acres (FLUCFCS 814) - There is a trail road that enters from Hartley Road in the center of the property and extends south for approximately two-thirds of the parcel.

**PROPOSED WORK:** The applicant seeks authorization to discharge clean fill material into 0.57 acre of waters of the United States (freshwater forested wetlands) to create a regional stormwater pond and conduct improvements of surrounding drainage into and out of the proposed pond. Hartley Road would also be improved to accommodate stormwater pipes into the proposed pond. Additionally, a 0.09 acre segment of Deep Bottom Creek on the southwest side of the proposed pond would be regraded to facilitate adequate drainage. The existing culvert that crosses Hartley Road would be abandoned. A weir structure would be installed in the south west corner of the proposed stormwater pond that would allow for the return of water to Deep Bottom Creek. The goal would be to alleviate local flooding and to treat stormwater runoff in the pond where excess nutrients and other pollutants would filter to the bottom before the waters reach Deep Bottom Creek and the St. Johns River. Best management practices would be required in project construction.

**AVOIDANCE AND MINIMIZATION INFORMATION:** The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

During the alternative analysis, several design elements and considerations were utilized to avoid and minimize wetland impacts to greatest extent practical in the currently proposed project design. Alternatives at the current project design are limited due to the location of the wetland community on-site, and due to the need to maximize the stormwater storage functionality of the proposed pond for the benefit of the surrounding drainage region. The proposed wetland impacts are necessary to ensure a functional and feasible site plan. The project will have no impact upon unique resources and appropriate mitigation will be provided to offset the proposed impacts.

**COMPENSATORY MITIGATION:** The applicant has offered the following compensatory mitigation plan to offset unavoidable functional loss to the aquatic environment:

To compensate for the proposed impacts, the applicant proposes a mitigation plan including the purchase of 0.35 freshwater wetland credits from Loblolly Mitigation Bank.

The amount of required credit(s) were determine through the Wetland Rapid Assessment Procedure.

**CULTURAL RESOURCES:** The Corps is not aware of cultural or historic resources on site. Our final determination relative to historic resource impacts is subject to review by and coordination with the State Historic Preservation Officer and those federally recognized tribes with concerns in Florida and the project area.

**ENDANGERED SPECIES:** The Corps has determined the proposed work is not likely to adversely affect the Wood Stork (*Mycteria americana*) based on *The Corps of Engineers, Jacksonville District, U.S. Fish and Wildlife Service, Jacksonville Ecological Services Field Office and State of Florida Effect Determination Key for the Wood Stork In Central And North Peninsular Florida* September 2008. Therefore, additional coordination with the U.S. Fish and Wildlife Service is not required.

The Corps has determined the proposed work is not likely to adversely affect the Eastern indigo snake based on the *Eastern Indigo Snake Programmatic Effect Determination Key* January 2010. Therefore, additional coordination with the U.S. Fish and Wildlife Service is not required.

The Corps has determined the proposed work would have no effect on the Red-Cockaded Woodpecker (*Picoides borealis*). Therefore, additional coordination with the U.S. Fish and Wildlife Service is not required.

**ESSENTIAL FISH HABITAT (EFH):** This public notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. There is no EFH found within the project area. The Corps' initial determination is that the proposed action would have no impact on EFH. Our final determination relative to project impacts is subject to review and coordination with the National Marine Fisheries Service.

**NOTE:** This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The Corps has verified the extent of Federal jurisdiction.

**AUTHORIZATION FROM OTHER AGENCIES:** Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

**COMMENTS** regarding the potential authorization of the work proposed should be submitted in writing to the attention of the District Engineer through the Jacksonville Permits Section, Post Office Box 4970, Jacksonville, Florida 32232 within 15 days from the date of this notice.

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to

the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

QUESTIONS concerning this application should be directed to the project manager, Terri M. Mashour, in writing at the Jacksonville Permits Section, Post Office Box 4970, Jacksonville, Florida 32232; by electronic mail at [terri.m.mashour@usace.army.mil](mailto:terri.m.mashour@usace.army.mil); by facsimile transmission at (904) 232-1940; or, by telephone at (904) 570-4512.

**IMPACT ON NATURAL RESOURCES:** Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest.

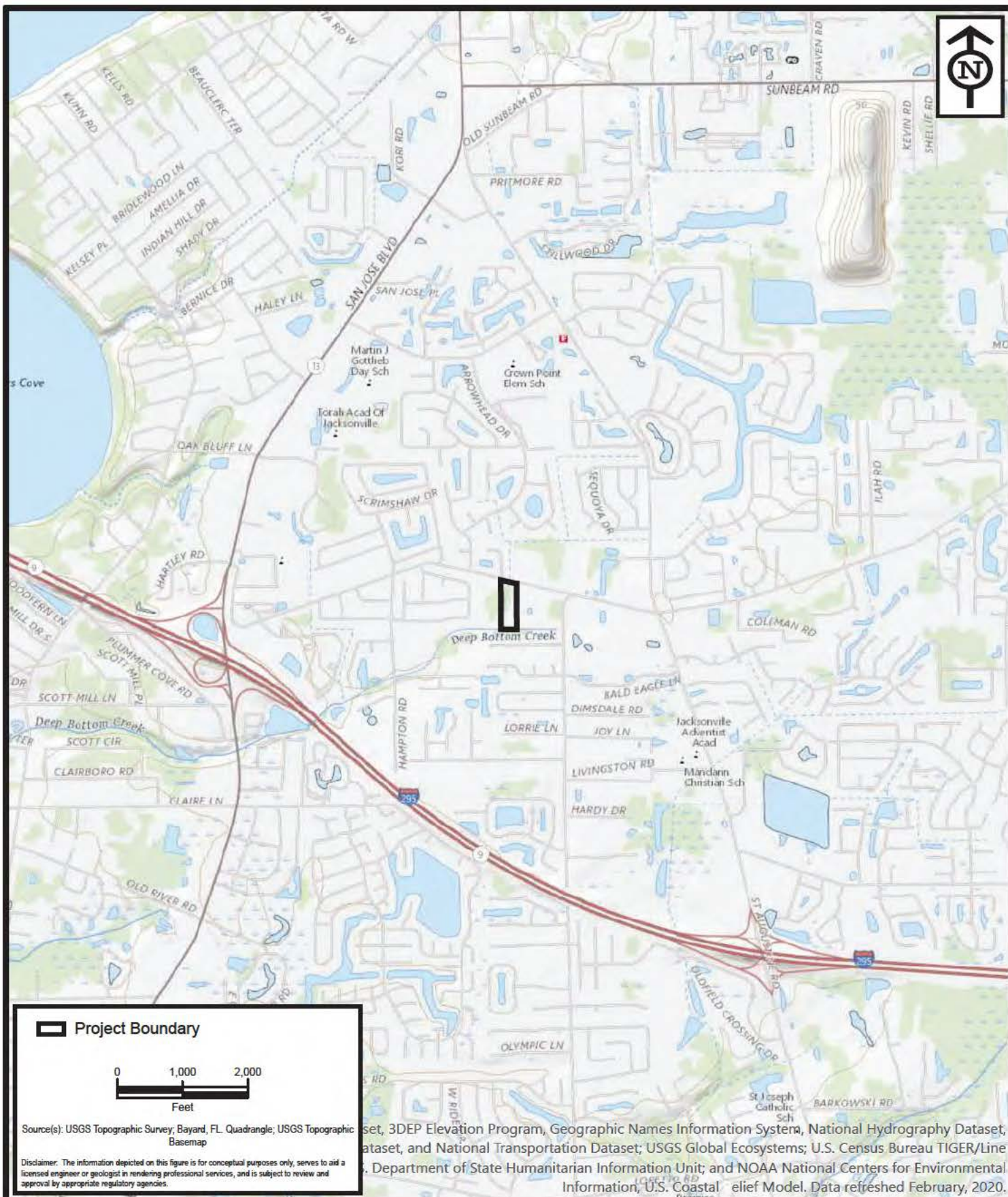
The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other Interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts to endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

**COASTAL ZONE MANAGEMENT CONSISTENCY:** In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the

Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

**REQUEST FOR PUBLIC HEARING:** Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.





**ENVIRONMENTAL  
SERVICES, INC.**  
A Terracon COMPANY

7220 FINANCIAL WAY, SUITE 100 JACKSONVILLE, FL 32256  
PH. (904) 470-2200 FAX (904) 470-2112

Project Location

## Hartley Road Drainage Improvements

Duval County, Florida

Project No. HK197452

Date Jun 2020

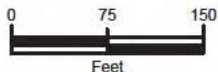
Drawn By AA

Checked By JRN

Approved By BAA

Figure No. 1





Source(s): USDA Soils Survey of Duval County, Florida; ESRI World Imagery Basemap

Disclaimer: The information depicted on this figure is for conceptual purposes only, serves to aid a licensed engineer or geologist in rendering professional services, and is subject to review and approval by appropriate regulatory agencies.

#### Project Boundary

#### Soils

- ☐ 51, Pelham fine sand, 0 to 2 percent slopes
- ☐ 63, Sapelo fine sand, 0 to 2 percent slopes
- ☐ 66, Surrency loamy fine sand, depressional, 0 to 2 percent slopes
- ☐ 73, Urban land-Mascotte-Sapelo complex, 0 to 2 percent slopes
- ☐ 74, Pelham-Urban land complex, 0 to 2 percent slopes



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NRCS Soils

## Hartley Road Drainage Improvements

Duval County, Florida

Project No. HK197452

Date Jun 2020

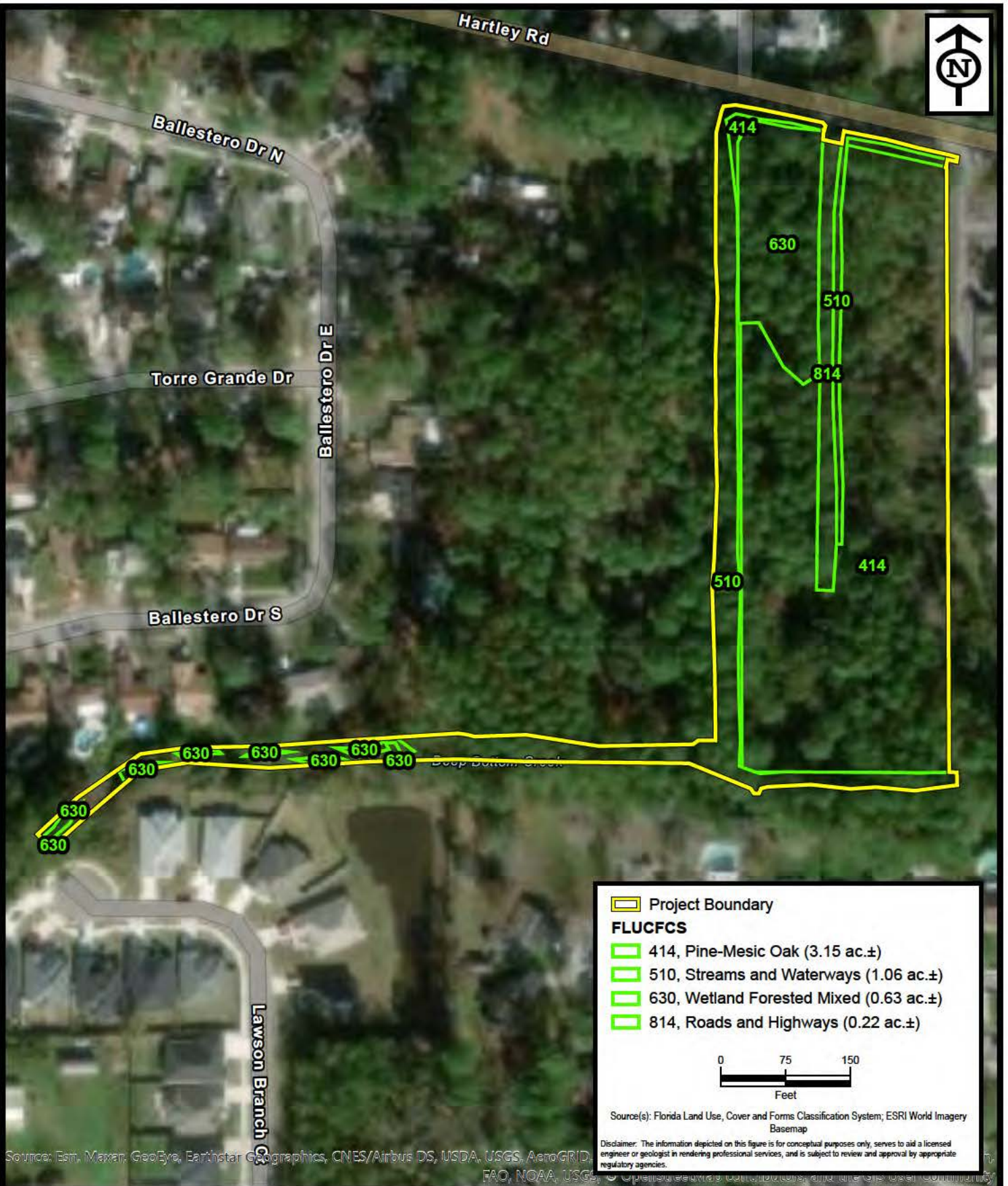
Drawn By AA

Checked By JRN

Approved By BAA

Figure No. 2





**ENVIRONMENTAL SERVICES, INC.**  
A Terracon COMPANY

7220 FINANCIAL WAY, SUITE 100 JACKSONVILLE, FL 32256  
PH. (904) 470-2200 FAX (904) 470-2112

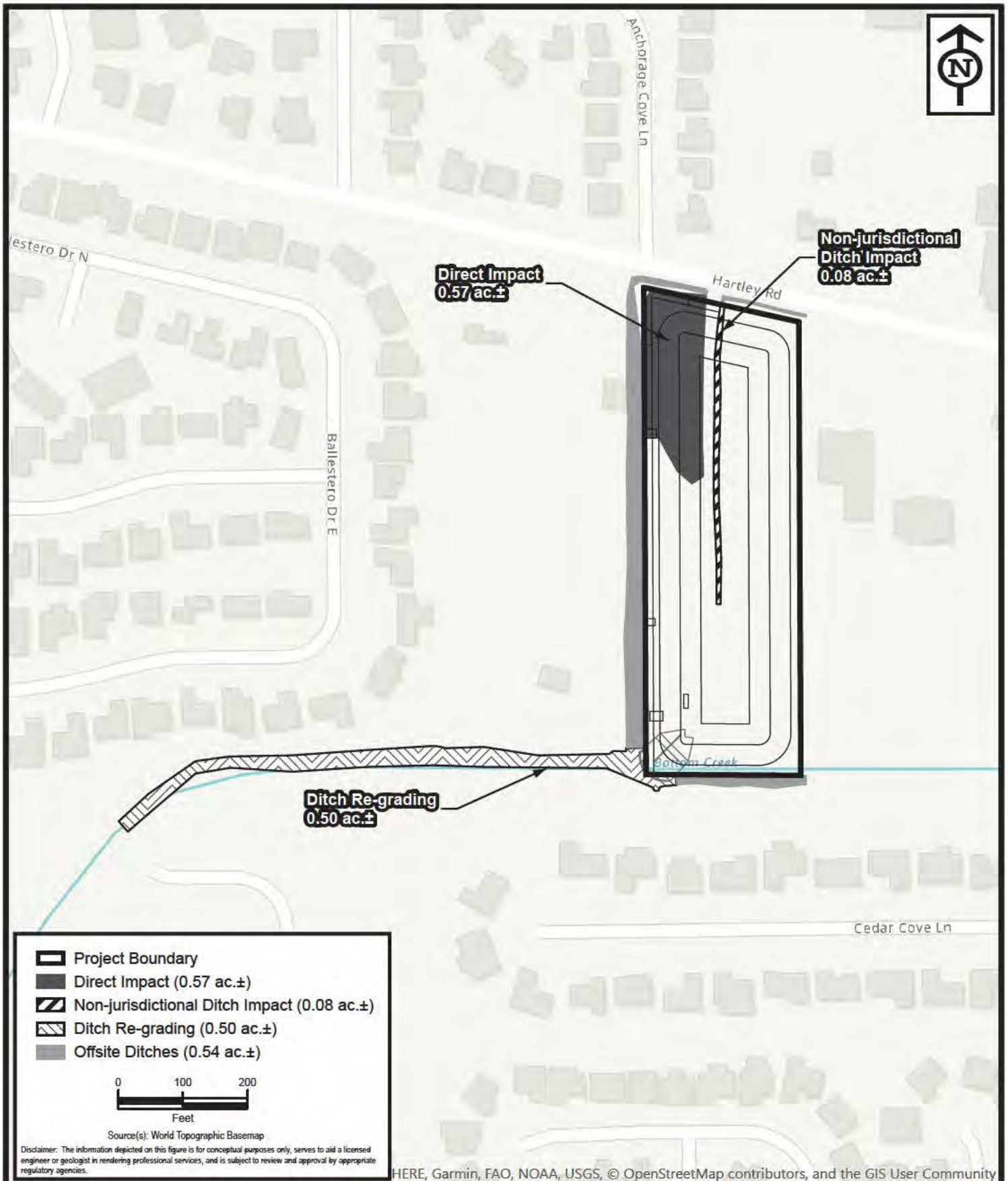
Existing Site Conditions

**Hartley Road Drainage Improvements**

Duval County, Florida

Project No.	HK197452
Date	Aug 2020
Drawn By	AA
Checked By	JRN
Approved By	BAA
Figure No.	3





**ENVIRONMENTAL  
SERVICES, INC.**  
A Terracon COMPANY

7220 FINANCIAL WAY, SUITE 100 JACKSONVILLE, FL 32256  
PH. (904) 470-2200 FAX (904) 470-2112

Proposed Site Conditions

## Hartley Road Drainage Improvements

Duval County, Florida

Project No.	HK197452
Date	Jul 2020
Drawn By	AA
Checked By	JRN
Approved By	BAA
Figure No.	4







THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

ROADWAY PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
C-1	Key Sheet
C-2	Signature Sheet
C-3	Existing Drainage Map
C-4	Proposed Drainage Map
C-5	General Notes
C-7 to C-8	Pond Plan
C-9 to C-10	Ditch Plan & Profile
C-11	Drainage Structures
C-12	Pond Details
C-13 to C-16	Pond Cross Sections
C-17 to C-20	Ditch Cross Sections



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ROADWAY PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
C-2	Signature Sheet
C-6	Coordinate Data Sheet
C-21	Temporary Traffic Control Plan
CG-1 To CG-2	Clearing & Grubbing Plan

REVISIONS			
REV	DATE	BY	DESCRIPTION



LAURA S. PHILLIPS, P.E. LC No. 54972

SCALE:	AS SHOWN
DATE:	6/3/2020
DRAWN:	JAD
CHECKED:	---
APPROVED:	---

PROJECT NO. / DASH NO.
B151448.33

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methods.

*SIGNATURE SHEET*

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET  
NO.

C-2

### GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF PUBLIC AND PRIVATE PROPERTY ALONG AND ADJACENT TO THE PROJECT SITE. THE CONTRACTOR SHALL USE SUITABLE PRECAUTION TO PREVENT DAMAGE TO ALL UNDERGROUND STRUCTURES, WHETHER SHOWN ON THE PLANS OR NOT, AND SHALL PROTECT CAREFULLY FROM DISTURBANCE OR DAMAGE, ALL LAND MONUMENTS AND PROPERTY MARKS UNTIL THE ENGINEER HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION AND SHALL NOT MOVE THEM UNTIL DIRECTED.
2. THE CONTRACTOR SHALL MAINTAIN FLOW IN ALL DITCHES, PIPES, AND CULVERTS DURING NON-WORKING HOURS. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OR APPLICABLE PERMITS.
3. POLLUTANTS OR POTENTIALLY HAZARDOUS MATERIALS, SUCH AS CONCRETE, ASPHALT, FUELS, LUBRICANTS, LEAD PAINT, CHEMICALS OR BATTERIES, SHALL BE TRANSPORTED, STORED, AND USED IN A MANNER TO PREVENT LEAKAGE OR SPILLAGE INTO THE ENVIRONMENT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PROPER AND LEGAL DISPOSAL OF ALL SUCH MATERIALS.
4. EQUIPMENT, ESPECIALLY CONCRETE OR ASPHALT TRUCKS, SHALL NOT BE WASHED OR CLEANED-OUT ON THE PROJECT OR IN AREAS WHERE CONTAMINANTS CAN ENTER WATERWAYS.
5. DISCHARGING WASH DOWN WATER INTO STORM DRAINS, STREAMS, OR RIVERS IS ILLEGAL.
6. THIS PROJECT WILL BE CONSTRUCTED USING CITY OF JACKSONVILLE LATEST EDITION STANDARD SPECIFICATIONS AND STANDARD PLANS.

### GENERAL SITE NOTES:

1. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER. ALL SAFETY RULES AND GUIDELINES OF OSHA SHALL BE FOLLOWED. THE CONTRACTOR SHALL BE WHOLLY RESPONSIBLE FOR ANY INJURIES TO HIS EMPLOYEES AND FOR ANY DAMAGE TO PRIVATE PROPERTY OR PERSONS DURING THE COURSE OF THIS PROJECT. ALL COSTS ASSOCIATED WITH COMPLYING WITH OSHA REGULATIONS AND THE FLORIDA TRENCH SAFETY ACT MUST BE INCLUDED IN THE CONTRACTORS BID.
2. THE CONTRACTOR SHALL CONTACT SUNSHINE STATE ONE CALL OF FLORIDA (811) FOR UTILITIES LOCATES IN ACCORDANCE WITH STATE LAW PRIOR TO EXCAVATING. THE CONTRACTOR IS ALSO URGED TO TAKE COLOR PHOTOGRAPHS ALONG THE ROUTE OF OR WITHIN THE PROJECT TO RECORD EXISTING CONDITIONS PRIOR TO CONSTRUCTION, AND AID IN RESOLVING POSSIBLE FUTURE ISSUES THAT MAY OCCUR DUE TO THE CONSTRUCTION OF THE PROJECT.
3. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING STRUCTURES, IMPROVEMENTS, UTILITIES, PROPERTY LINES, AND CONFIRM ALL PROPOSED DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION OR ORDERING ANY MATERIALS.

### GENERAL SITE NOTES:

4. ALL MATERIAL AND WORKMANSHIP ARE TO BE WARRANTED BY THE CONTRACTOR TO THE CITY OF JACKSONVILLE FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE FDOT AND THE CITY OF JACKSONVILLE.
5. IF DEWATERING CAPACITY REQUIRES A CONSUMPTIVE USE PERMIT (C.U.P.) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO OBTAIN THE PERMIT THROUGH THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE ENGINEER FOR APPROVAL OF ALL DEWATERING OPERATIONS PRIOR TO COMMENCEMENT.
6. PRIOR TO ANY DISCHARGE OF GROUND WATER (DEWATERING) FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT TO WATERS OF THE STATE (INCLUDING, BUT NOT LIMITED TO, WETLANDS, SWALES AND MUNICIPAL STORM SEWERS). THE CONTRACTOR SHALL TEST THE EFFLUENT (WATER TO BE DISCHARGED) IN ACCORDANCE WITH RULE 62-621.300(2), F.A.C. IF TEST RESULTS ON THE EFFLUENT ARE BELOW THE SCREENING VALUES OF RULE 62-621.300(2) F.A.C., THE CONTRACTOR SHALL SUBMIT A SUMMARY OF THE PROPOSED CONSTRUCTION ACTIVITY AND THE TEST RESULTS TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT OFFICE WITHIN ONE (1) WEEK AFTER DISCHARGE BEGINS. THE CONTRACTOR SHALL CONTINUE TO SAMPLE THE EFFLUENT AS REQUIRED THROUGHOUT THE PROJECT AND COMPLY WITH ALL CONDITIONS OF RULE 62-621.300(2) F.A.C., THE CONTRACTOR SHALL COMPLY WITH OTHER APPLICABLE RULES AND REGULATIONS PRIOR TO DISCHARGE OF THE EFFLUENT (GROUND WATER) TO THE SURFACE WATER OF THE STATE.
7. DEBRIS REMOVAL SHALL FOLLOW DIVISION III, 20.16 OF THE CONTRACT SPECIFICATIONS.
8. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL SURVEY AND PROPERTY MONUMENTS. IF A MONUMENT IS DISTURBED, THE CONTRACTOR SHALL CONTACT THE PROJECT MANAGER TO COORDINATE THE SURVEYING TEAM TO RESET THE PROPERTY CORNERS.
9. ALL UNDERGROUND UTILITIES TO BE INSTALLED UNDER PAVEMENT MUST BE INSTALLED PRIOR TO PREPARATION OF SUBGRADE FOR PAVEMENT.
10. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON ALL MATERIALS TO THE ENGINEER FOR REVIEW AND APPROVAL TO PURCHASE OR CONSTRUCTION OF ANY UTILITY OR STORM PIPE OR STRUCTURES.

### PAVING AND DRAINAGE NOTES:

1. ALL DRAINAGE PIPE JOINTS ARE TO BE FILTER FABRIC WRAPPED.
2. ALL INVERTS IN DRAINAGE STRUCTURES TO BE PRECAST OR BRICK WITH LAYER OF MORTAR BETWEEN EACH LAYER OF BRICK OR REDDI-MIX CONCRETE WITH #57 STONE.
3. ALL PIPE LENGTHS ARE SCALED DIMENSIONS. ALL DRAINAGE STRUCTURES SHALL BE CONSTRUCTED TO CONFORM WITH CITY REQUIREMENTS AND SHALL BE CONSTRUCTED TO CONFORM WITH CURBING, PROPERTY LINES AND LOW POINTS AS SHOWN ON THE PLANS.
4. CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEAN AND FUNCTIONING PROPERLY AT THE TIME OF ACCEPTANCE.
5. ALL PIPE LENGTHS SHOWN ON CONSTRUCTION DRAWINGS ARE FROM THE CENTER TO CENTER OF STRUCTURES. INVERT ELEVATIONS SHOWN ON THE DRAWINGS ARE TO THE CENTERLINE OF STRUCTURES.
6. LOCAL RESIDENTS WILL BE PROVIDED ACCESS TO THEIR PROPERTY AT ALL TIMES DURING CONSTRUCTION.
7. RESIDENTIAL DRIVEWAY CLOSURES SHALL BE COORDINATED WITH EACH RESIDENT.
8. ALL PROPOSED ROUND STORM PIPE WITHIN PROJECT LIMITS SHALL BE CORRUGATED POLYPROPYLENE DUAL WALL (SMOOTH INTERIOR) HP STORM PIPE AS MANUFACTURED BY ADS. ALL ELLIPTICAL PIPE WITHIN PROJECT LIMITS SHALL BE RCP.

### UTILITY CONTACTS

AT&T FLORIDA	PK PATEL	(904) 727-1568
COMCAST	JAMES GRAHAM	(904) -380-6341
JEA ELECTRIC DIST.	RYAN HEATON	(904) 665-6171
JEA ELECTRIC TRANS.	JASON RINEHART	(904) 665-7380
JEA FIBER	KENNY WATSON	(904) 591-9252
JEA WATER/SEWER	RICHARD PAULA	(904) 665-6985
TECO PEOPLE GAS	DOUGLAS DAVIS	1-877-832-6747 / (904) 443-7317
FDOT LIGHTING	JOHN DRAYTON	(904) 360-5200
CITY OF JACKSONVILLE TRAFFIC DEPT.	MASON BOYD	(904) 255-7549
FDOT ITS	MATT HARBERT	(904) 903-2013

REVISIONS				 transforming ideas into reality 1301 Riverplace Blvd, Suite 900 Jacksonville, FL 32207 904.363.1110 Certificate of Authorization: EB9951	LAURA S. PHILLIPS, P.E. LC No. 24972	SCALE:	AS SHOWN	PROJECT NO. / DASH NO.	GENERAL NOTES		SHEET NO.			
REV	DATE	BY	DESCRIPTION			DATE:	6/3/2020	B151448.33	HARTLEY ROAD REGIONAL POND JACKSONVILLE, FLORIDA		C-5			
								DRAWN:				JAD	This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not revise this drawing via manual drafting methods.	
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								APPROVED:						
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COORDINATE DATA								
BASELINE (CHAIN)	START			TO		END		
	STATION	COORDINATES		BEARING	DISTANCE	STATION	COORDINATES	
		NORTH	EAST				NORTH	EAST
HARTLEY ROAD (HARTLEYROAD)	10+00.00	2127752.2309	461720.2133	S 77°29'43.24" E	400.00'	14+00.00	2127665.6233	462110.7247
REGIONAL POND (HARTLEYROADPOND)	20+00.00	2126900.0435	461918.774	N 00°14'36.05" W	808.92'	28+08.92	2127708.9561	461915.3384
DEEP BOTTOM CREEK (DEEPTOTTOMCREEK)	30+00.00	2126783.2566	460905.4444	N 46°08'45.00" E	252.02'	32+52.02	2126957.8608	461087.1759
	32+52.02	2126957.8608	461087.1759	N 89° 17'33.00" E	378.28'	36+30.30	2126962.5318	461465.4248
	36+30.30	2126962.5318	461465.4248	N 89°52'37.72" E	275.48'	39+05.77	2126963.1225	461740.9012
	39+05.77	2126963.1225	461740.9012	N 89°45'23.95" E	177.60'	40+83.38	2126963.8768	461918.5029

#### BENCHMARKS

##### @ CONST. HARTLEY ROAD

BM1  
SET 60D NAIL  
STA. 10+30.54, 16.93' LT  
EL. = 24.50'

BM2  
FOUND N&D  
STAMPED NPDESBY15  
STA. 11+14.15, 42.27' LT  
EL. = 23.85'

BM3  
SET IRC  
STAMPED GAI LB3604  
STA. 11+93.98, 22.89' LT  
EL. = 23.80'

BM4  
SET IRC  
STAMPED GAI LB3604  
STA. 13+34.02, 16.72' LT  
EL. = 24.64'

##### @ CONST. HARTLEY ROAD

BM5  
SET PK N&D  
STAMPED GAI LB3604  
STA. 26+94.92, 134.21' RT  
EL. = 27.24'

BM6  
SET PK N&D  
STAMPED GAI LB3604  
STA. 26+43.11, 133.94' RT  
EL. = 27.14'

BM7  
SET PK N&D  
STAMPED GAI LB3604  
STA. 25+93.71, 133.55' RT  
EL. = 26.99'

BM8  
SET 60D NAIL  
STA. 25+34.77, 12.10' LT  
EL. = 23.90'

BM9  
SET PK N&D  
STAMPED GAI LB3604  
STA. 25+34.72, 133.37' RT  
EL. = 26.78'

BM10  
SET PK N&D  
STAMPED GAI LB3604  
STA. 24+81.14, 133+50' RT  
EL. = 26.66'

BM11  
SET PK N&D  
STAMPED GAI LB3604  
STA. 24+31.55, 133.35' RT  
EL. = 27.18'

BM12  
SET PK N&D  
STAMPED GAI LB3604  
STA. 23+81.32, 133.05' RT  
EL. = 27.41'

BM13  
SET 60D NAIL  
STA. 23+30.07, 139.15' RT  
EL. = 27.25'

BM14  
SET 60D NAIL  
STA. 22+62.73, 33.89' LT  
EL. = 24.69'

BM15  
SET 60D NAIL  
STA. 22+58.58, 139.93' RT  
EL. = 26.93'

BM16  
SET IRC  
STAMPED GAI LB3604  
STA. 22+56.42, 153.28' RT  
EL. = 28.35'

BM17  
SET IRC  
STAMPED GAI LB3604  
STA. 20+57.07, 86.44' RT  
EL. = 24.82'

BM18  
SET 60D NAIL  
STA. 20+59.04, 102.32' LT  
EL. = 23.89'

##### @ CONST. DEEP BOTTOM CREEK

BM19  
SET 60D NAIL  
STA. 37+12.51, 1.63' RT  
EL. = 19.65'

BM20  
SET 60D NAIL  
STA. 35+31.32, 13.62' LT  
EL. = 18.59'

BM21  
SET 60D NAIL  
STA. 32+54.11, 1.33' LT  
EL. = 18.39'

BM22  
SET PK N&D  
STAMPED GAI LB3604  
STA. 31+54.66, 120.72' RT  
EL. = 23.47'

REVISIONS			
REV	DATE	BY	DESCRIPTION



ROBERT G. BAILEY, P.E. LIC. No. 63567

SCALE:	AS SHOWN
DATE:	6/3/2020
DRAWN:	JAD
CHECKED:	
APPROVED:	

PROJECT NO. / DASH NO.  
B151448.33

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#### COORDINATE DATA SHEET

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET  
NO.

C-6

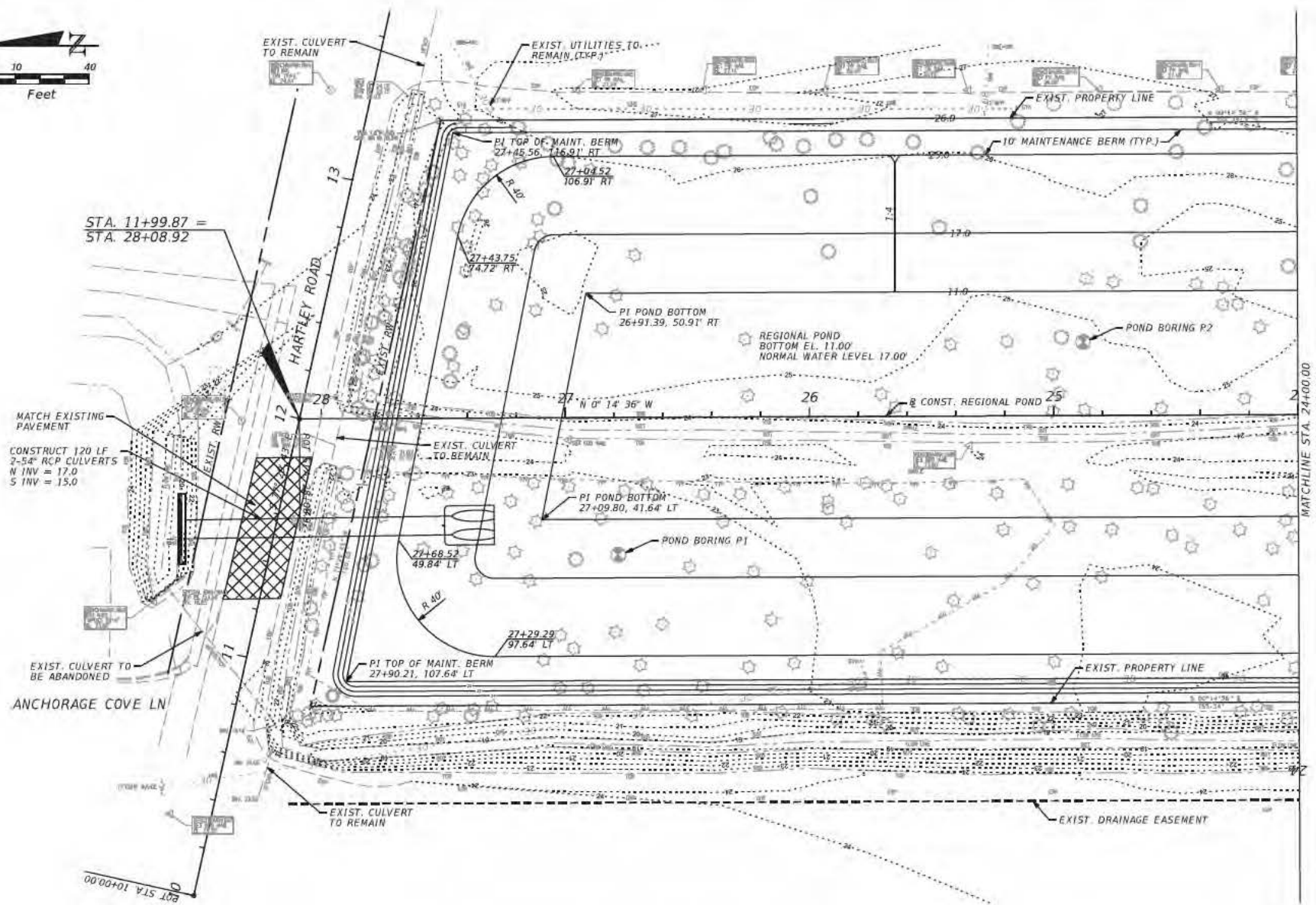
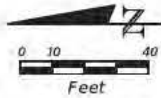
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6/3/2020

11:41:23 AM

Z:\Infrac\2015\B151448.33 - Hartley Rd - Deep Creek\CAD\Roadway\CURCD01.dgn





REVISIONS			
REV	DATE	BY	DESCRIPTION

**gai consultants**  
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1301 Riverplace Blvd, Suite 900  
Jacksonville, FL 32207  
904.363.1110  
Certificate of Authorization: 189953

AURA S. PHILLIPS, P.E. LS No. 24872

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
CHECKED:  
APPROVED:

PROJECT NO. 1 DASH RD.  
B151448.33  
This drawing was prepared with  
computer aided drafting technology  
and is supported by electronic  
drawing files. Do not modify this  
drawing via manual drafting  
methods.

REGIONAL POND LAYOUT & GRADING PLAN

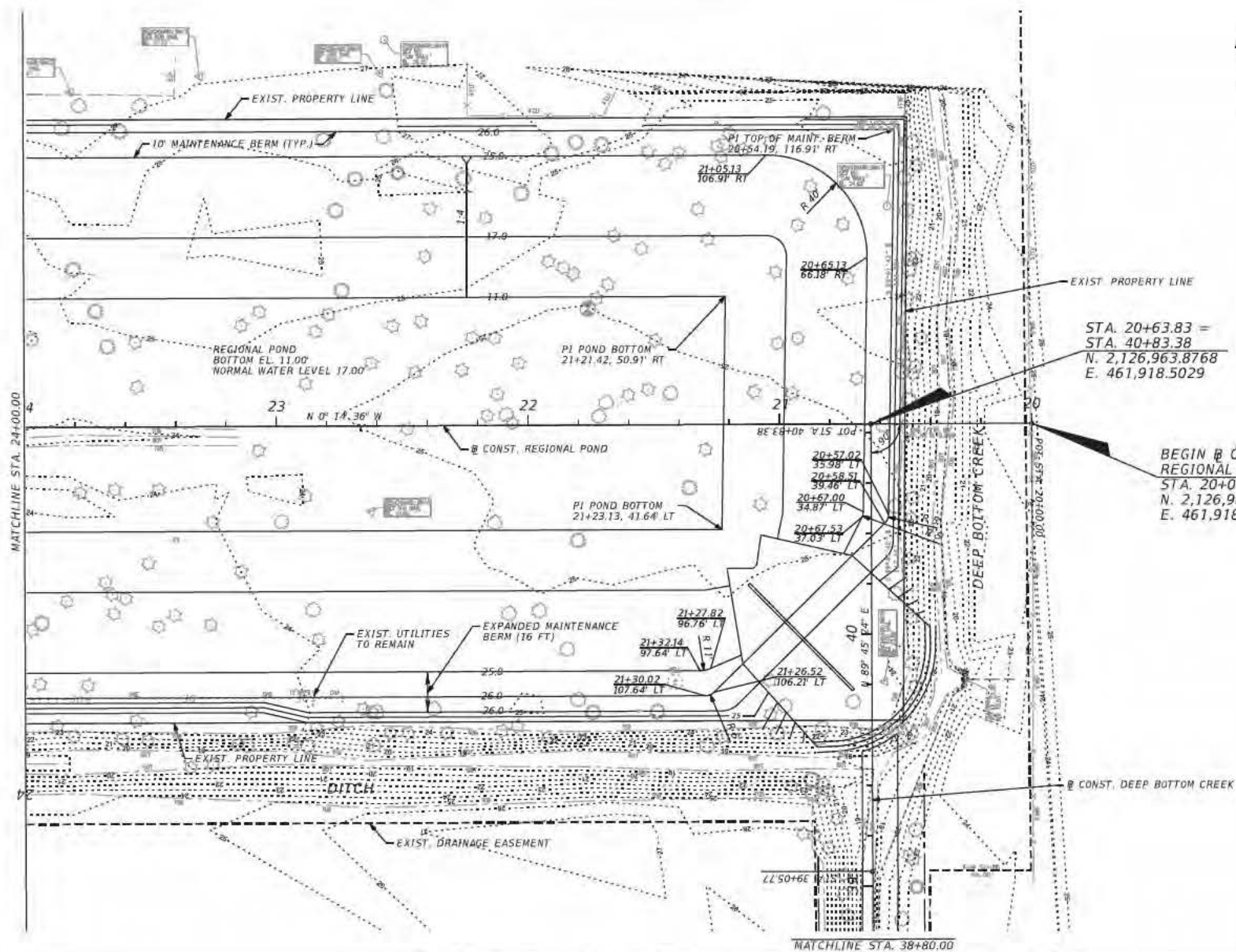
HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET  
NO.

C-7

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Jacksonville, FL 32207  
904.363.1100  
Certificate of Authorization: 189952

AURA S. PHILLIPS, P.E. 15 No. 24872

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
CHECKED:  
APPROVED:

PROJECT NO. 1 DASH RD.  
B151448.33  
This drawing was prepared with computer aided drafting technology and is subject to electronic drafting time. Do not make this drawing for manual drafting methods.

REGIONAL POND LAYOUT & GRADING PLAN

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

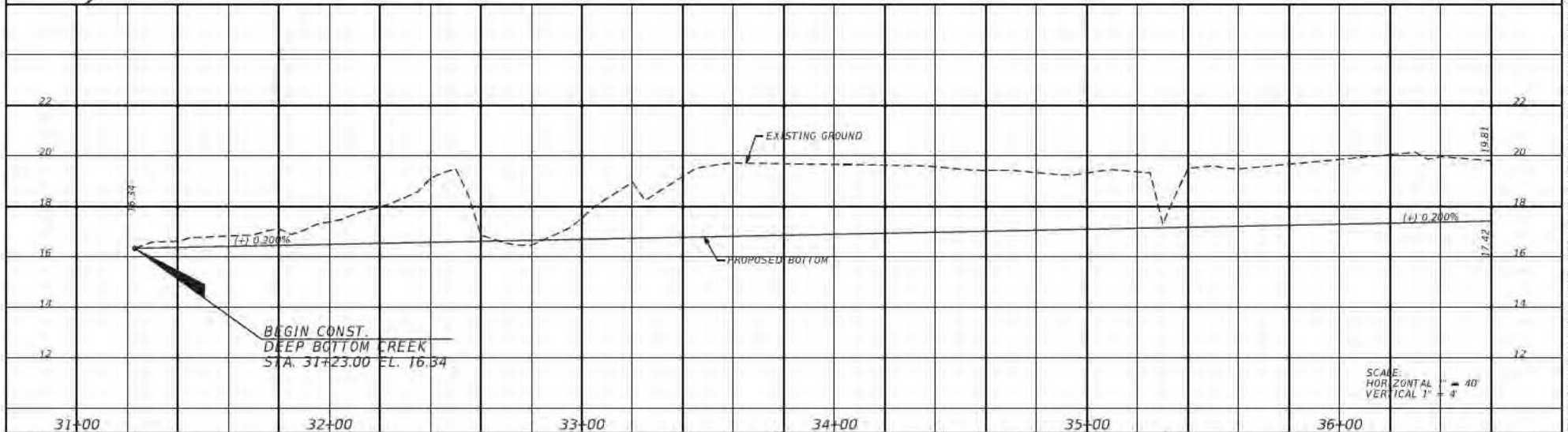
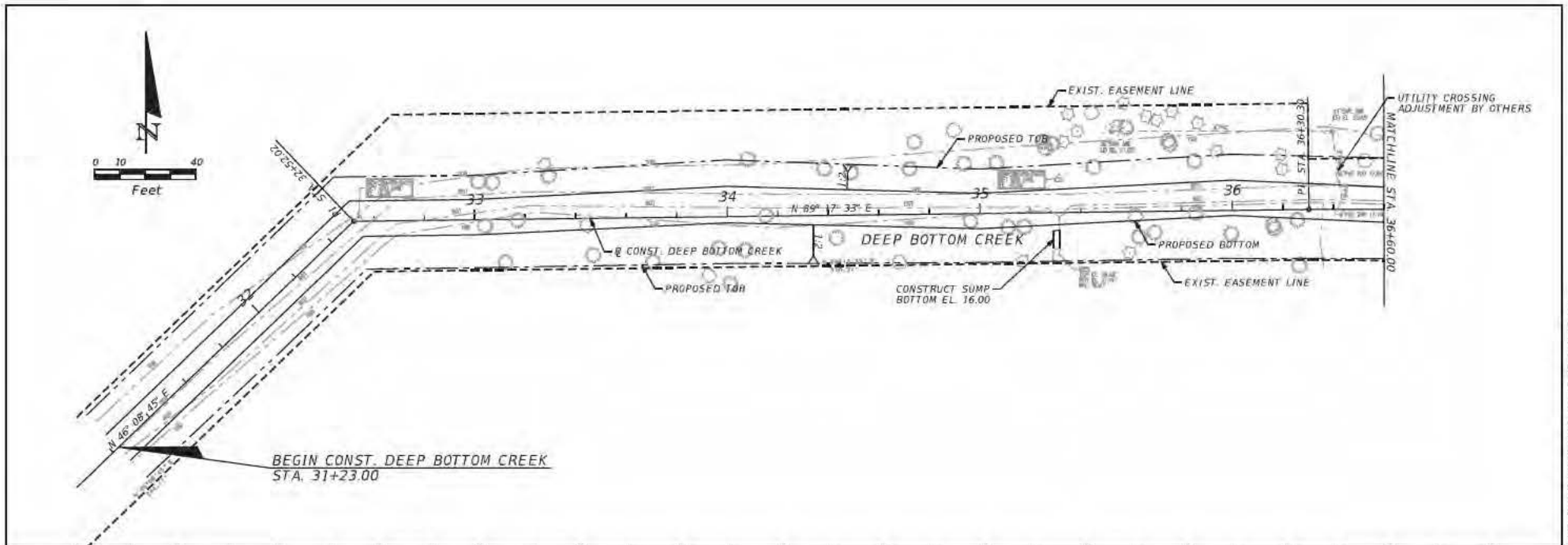
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C-8

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AURA S. PHILLIPS, P.E. (S. No. 3487)

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
CHECKED:   
APPROVED:   
DATE: 6/3/2020

PROJECT NO. 1 DASH RD.  
B151448.33

DEEP BOTTOM CREEK PLAN AND PROFILE  
HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET NO.  
C-9

dml/ja

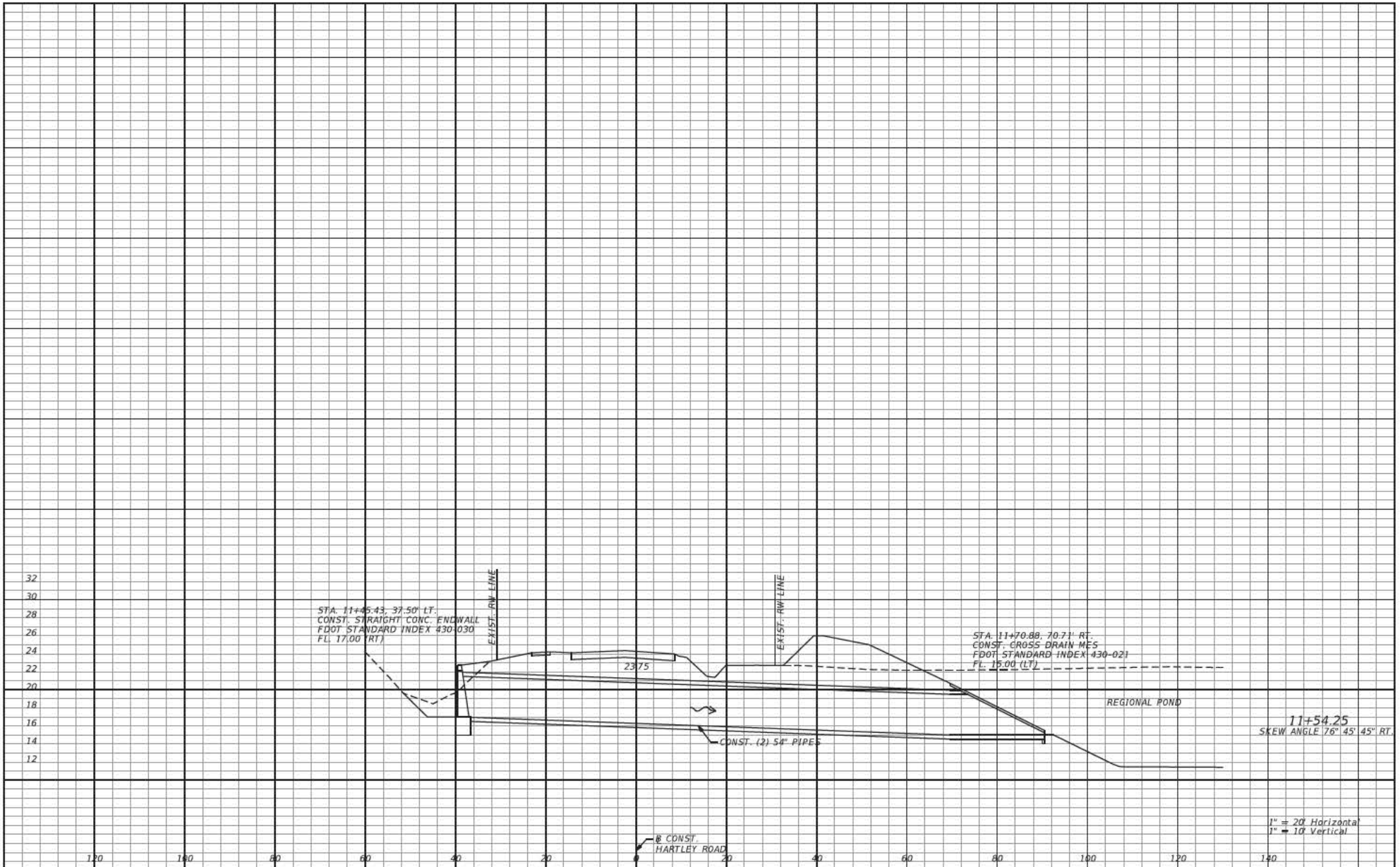
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LAURA S. PHILLIPS, P.E. L.C. No. 54972

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN:  
CHECKED:  
APPROVED:

PROJECT NO. / DASH NO.  
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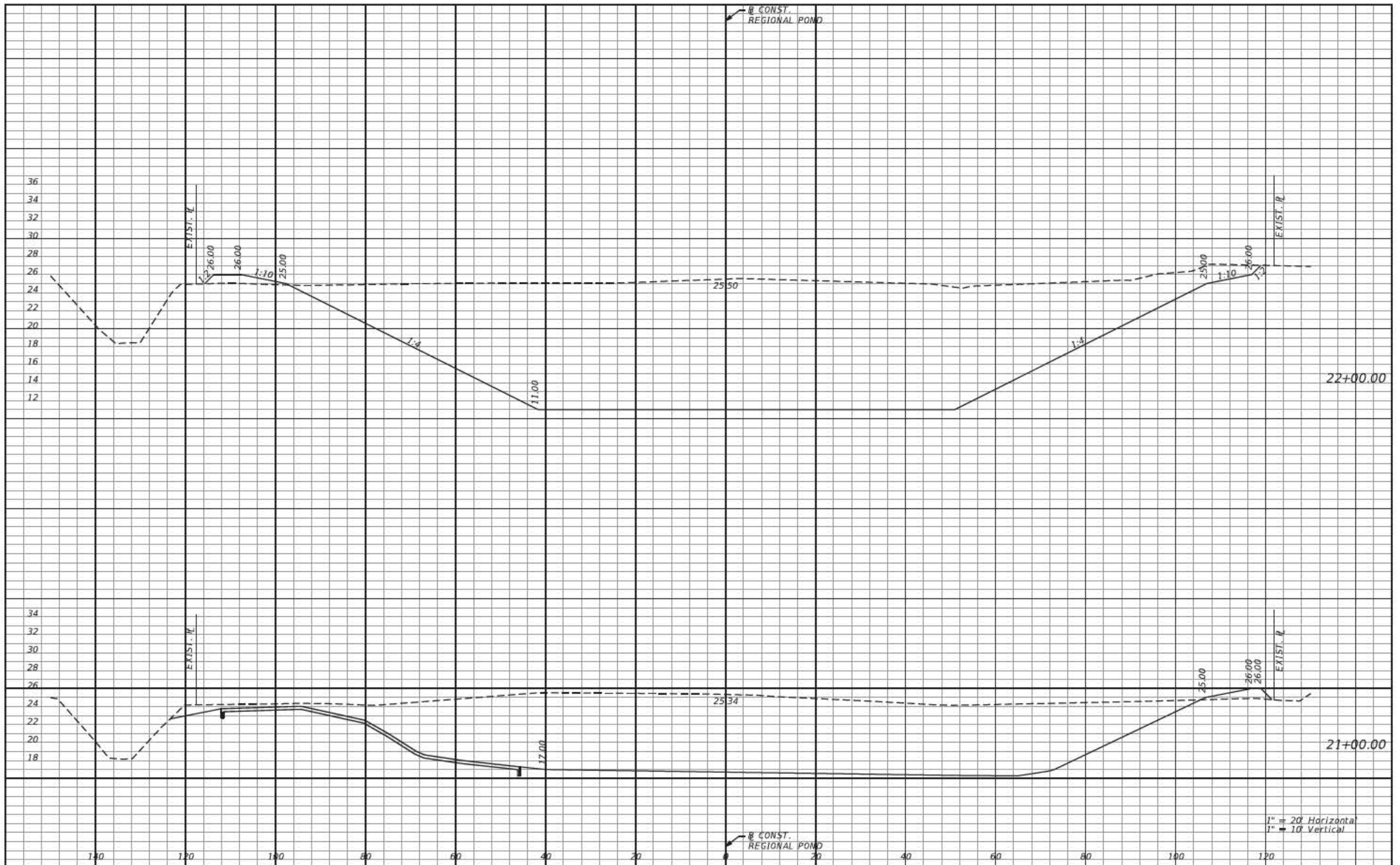
**DRAINAGE STRUCTURES**

**HARTLEY ROAD REGIONAL POND**  
JACKSONVILLE, FLORIDA

SHEET NO.  
C-11







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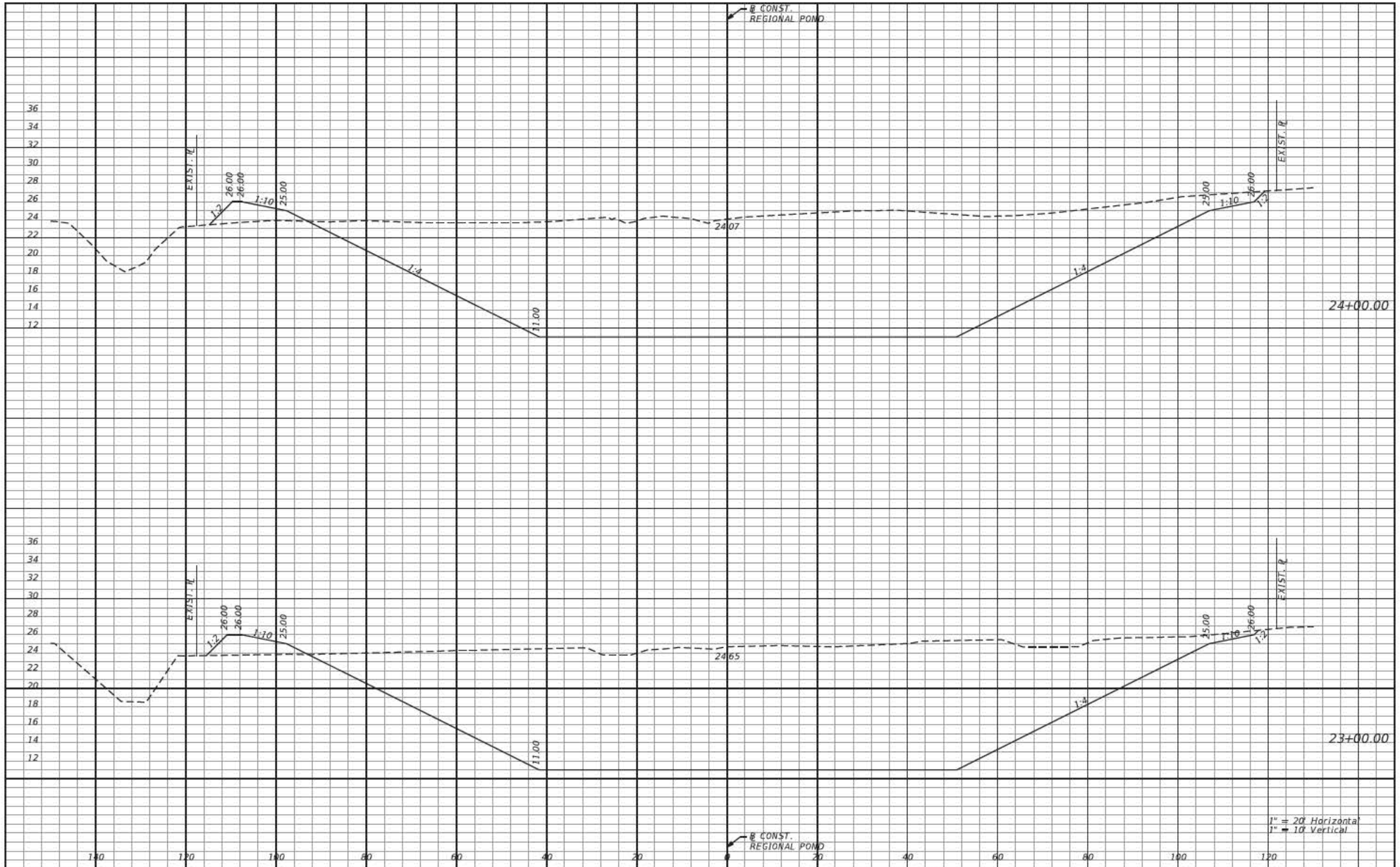
LAURA S. PHILLIPS, P.E. L.C. No. 54972

SCALE:	AS SHOWN
DATE:	6/3/2020
DRAWN:	JAD
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APPROVED:	

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**POND CROSS SECTIONS**  
  
**HARTLEY ROAD REGIONAL POND**  
**JACKSONVILLE, FLORIDA**

SHEET NO.	C-13
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LAURA S. PHILLIPS, P.E. L.S. No. 54972

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
CHECKED:  
APPROVED:

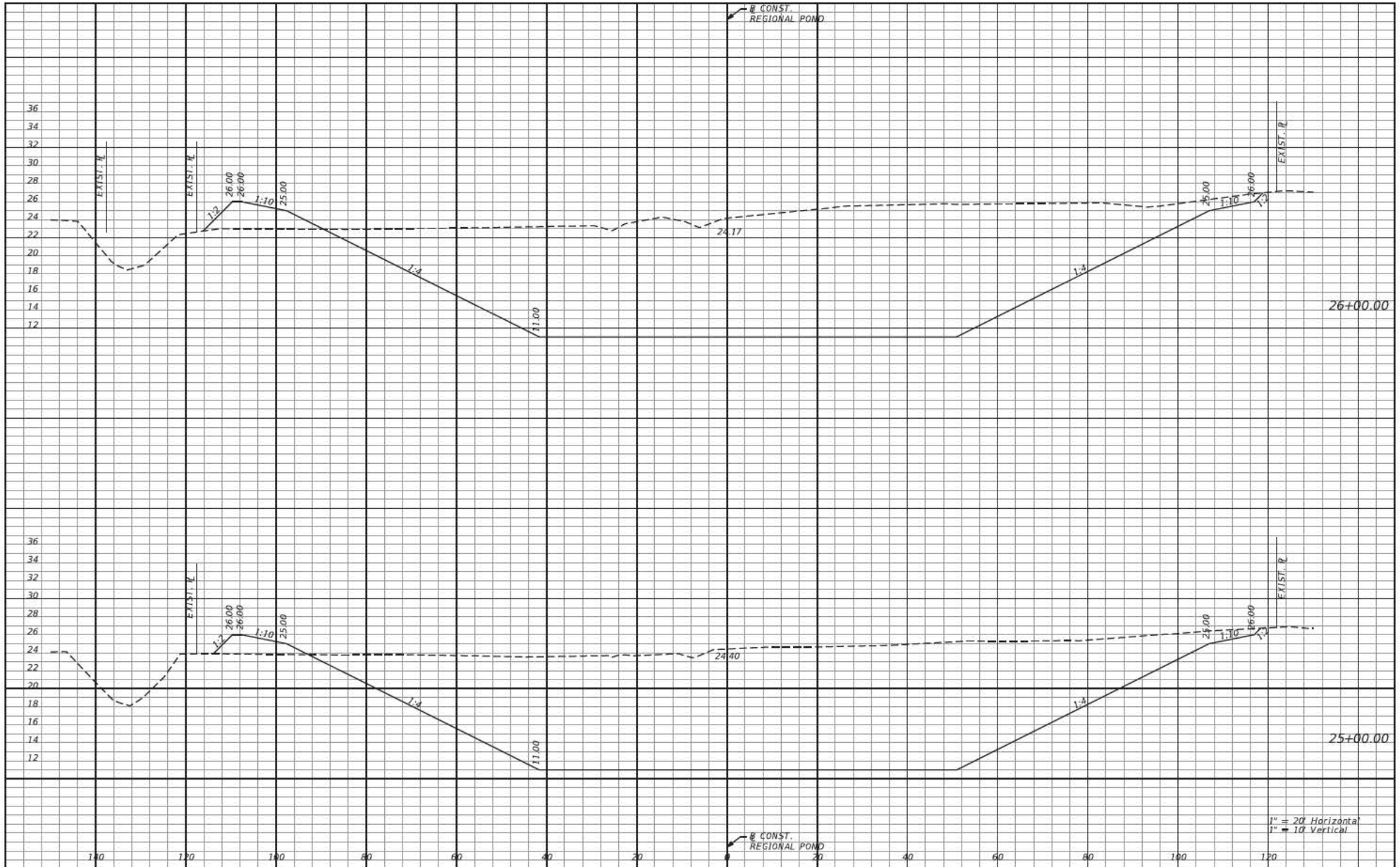
PROJECT NO. / DASH NO.  
B151448.33  
This drawing was produced with  
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drawing files. Do not trace this  
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POND CROSS SECTIONS

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET  
NO.

C-14



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LAURA S. PHILLIPS, P.E. L/C No. 54972

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
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APPROVED:

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B151448.33  
This drawing was produced with  
computer aided drafting technology  
and is supported by electronic  
drawing files. Do not trace this  
drawing via manual drafting  
methods.

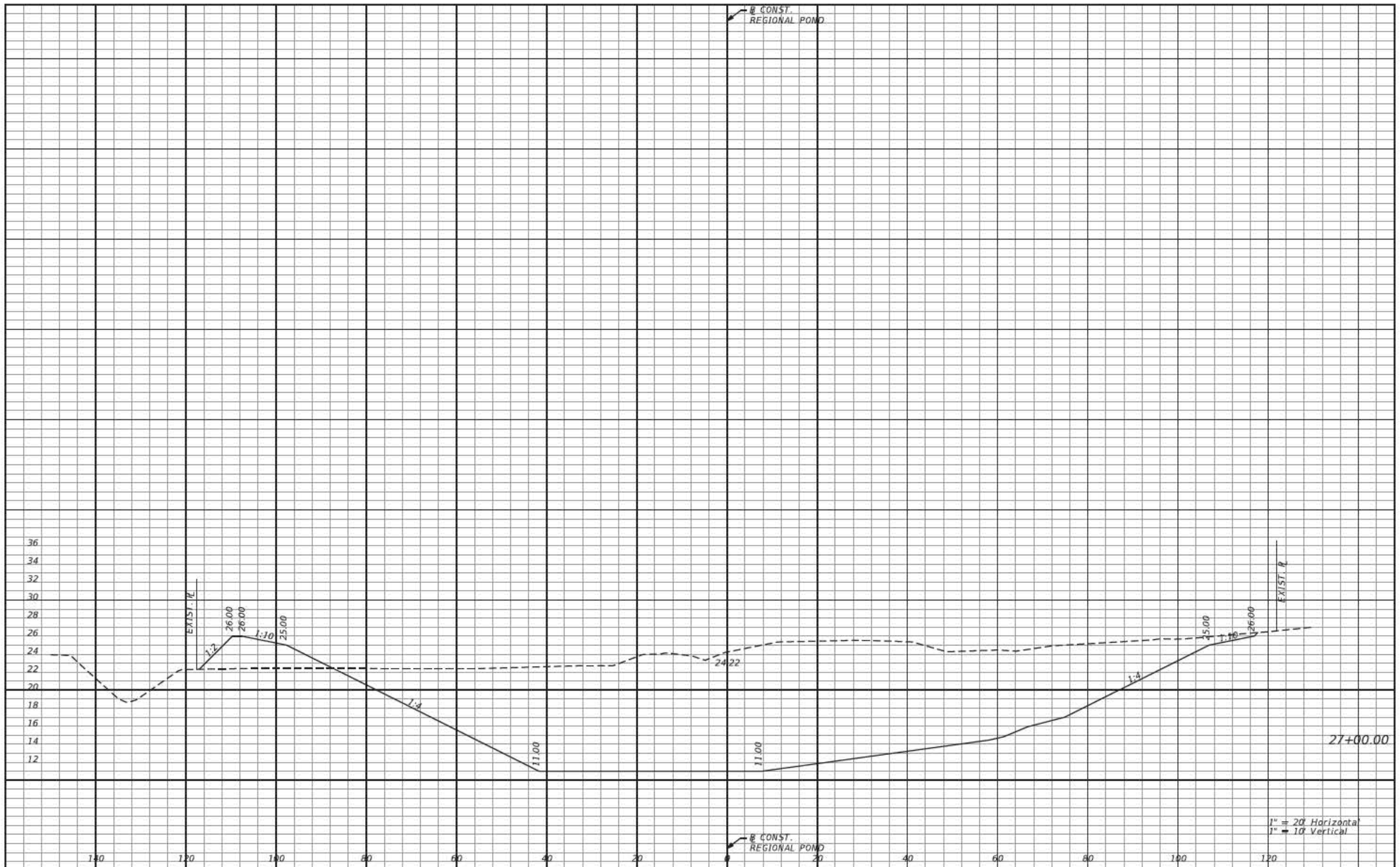
POND CROSS SECTIONS

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET  
NO.

C-15





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LAURA S. PHILLIPS, P.E. L.S. No. 54972

SCALE:	AS SHOWN
DATE:	6/3/2020
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PROJECT NO. / DASH NO.	B151448.33
This drawing was produced with computer aided drafting technology and is supported by electronic drawing files. Do not trace this drawing via manual drafting methods.	

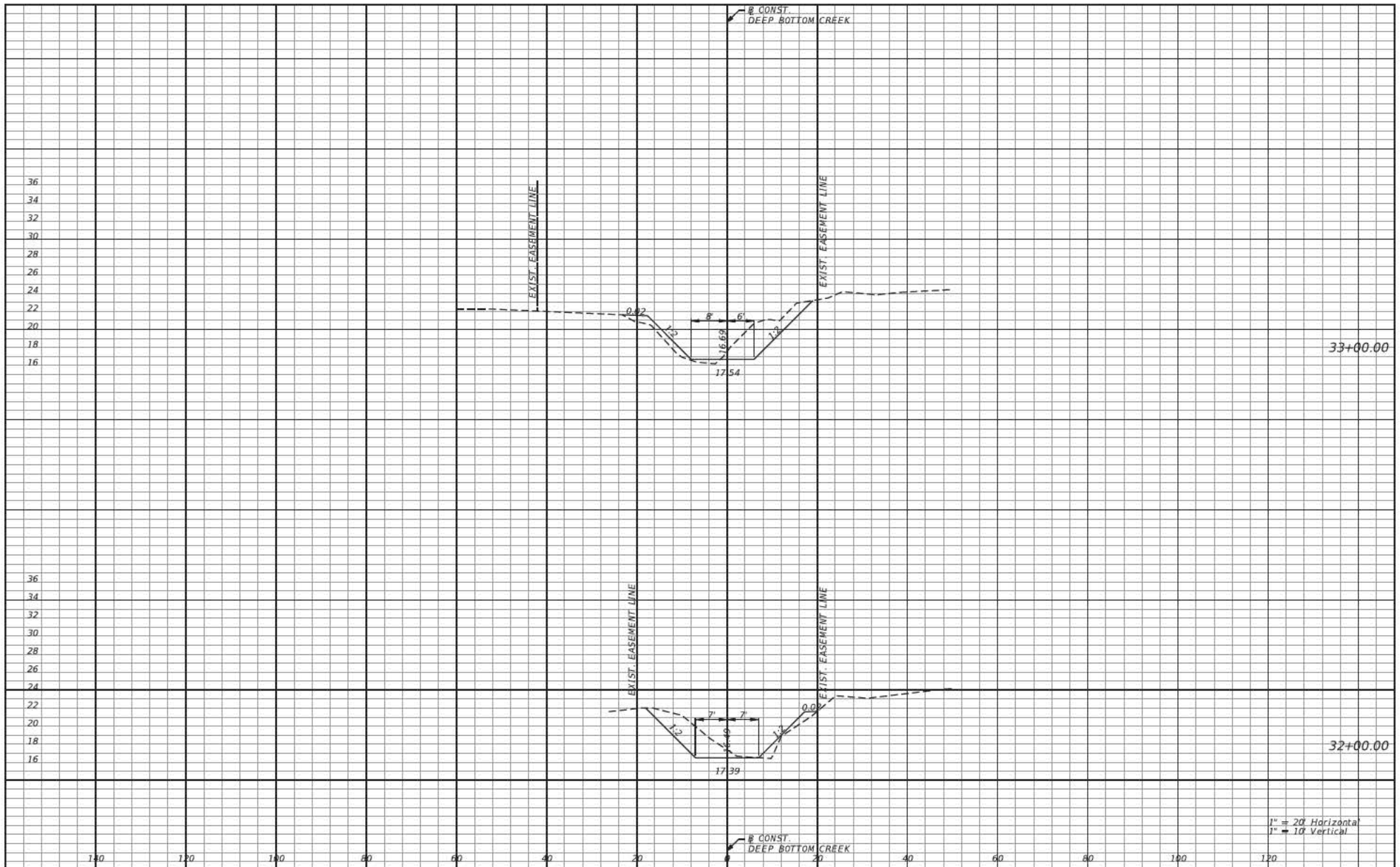
**POND CROSS SECTIONS**  
**HARTLEY ROAD REGIONAL POND**  
**JACKSONVILLE, FLORIDA**

SHEET NO.	C-16
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SCALE:	AS SHOWN
DATE:	6/3/2020
DRAWN:	JAD
CHECKED:	
APPROVED:	

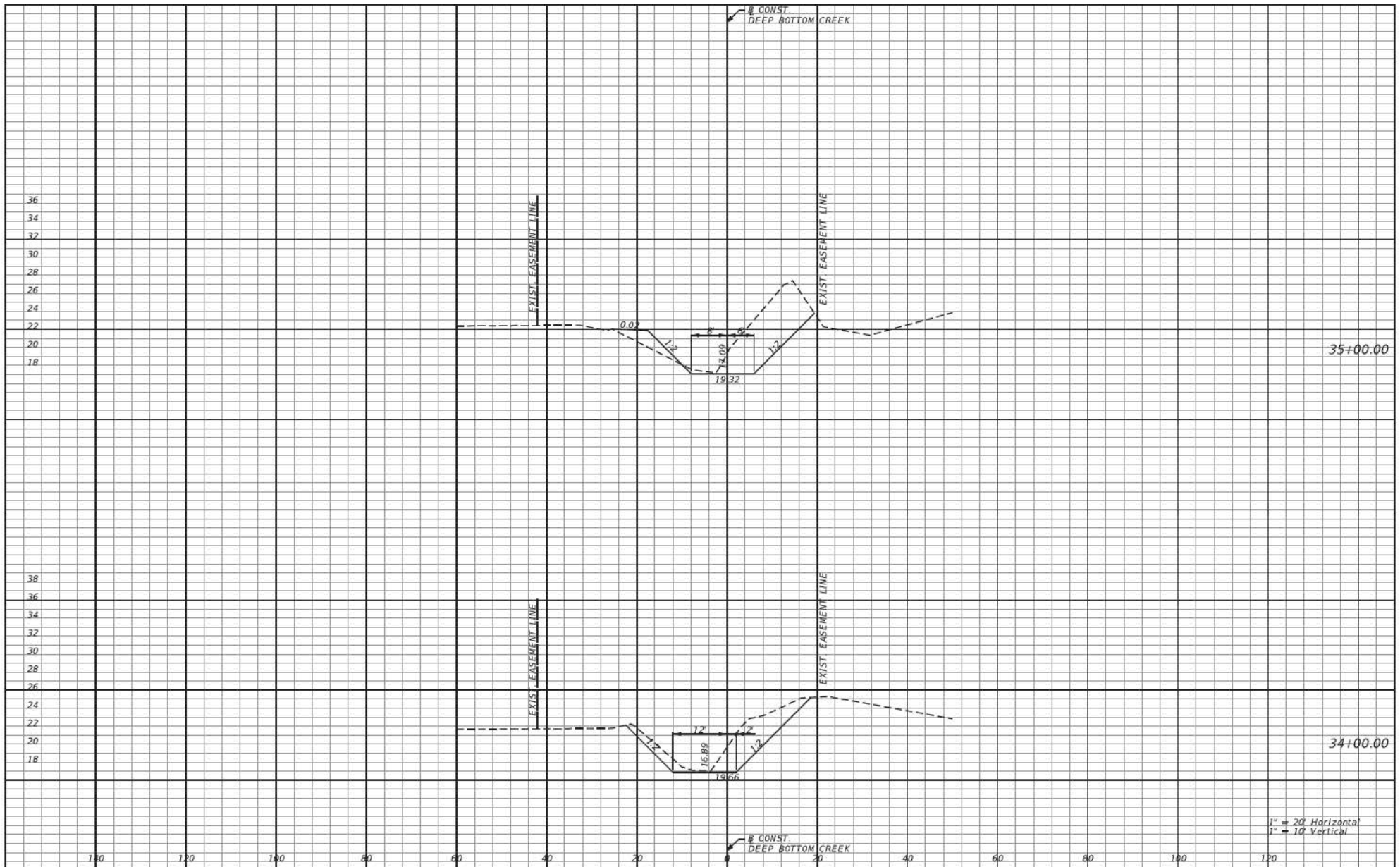
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DEEP BOTTOM CREEK CROSS SECTIONS

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET NO.

C-17



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LAURA S. PHILLIPS, P.E. L.C. No. 54972

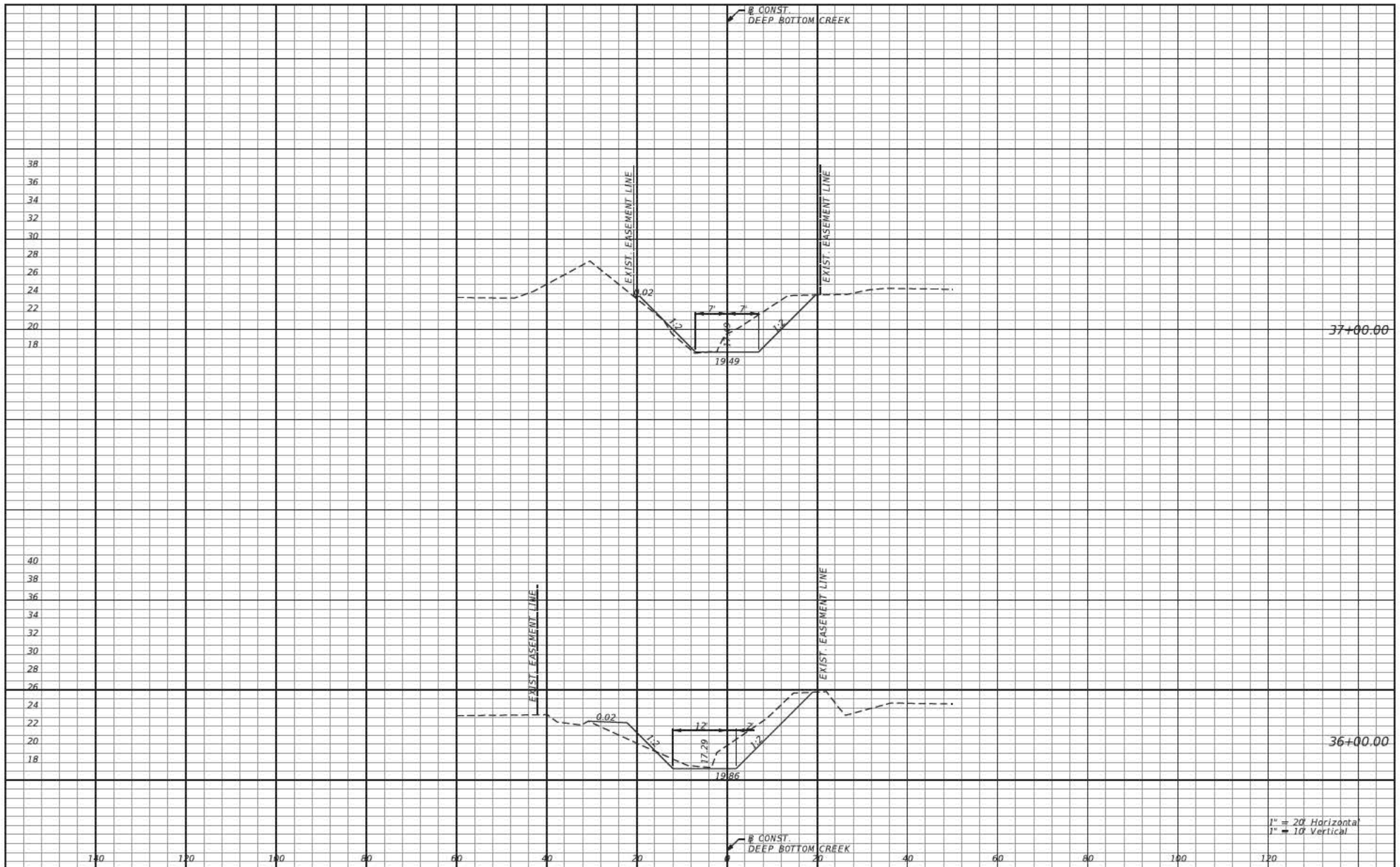
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APPROVED:	

PROJECT NO. / DASH NO.  
B151448.33  
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**DEEP BOTTOM CREEK CROSS SECTIONS**  
  
**HARTLEY ROAD REGIONAL POND**  
**JACKSONVILLE, FLORIDA**

SHEET NO.  
**C-18**





1" = 20' Horizontal  
1" = 10' Vertical

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904.363.1110  
Certificate of Authorization: EB9951

LAURA S. PHILLIPS, P.E. L.C. No. 54972

SCALE:	AS SHOWN
DATE:	6/3/2020
DRAWN:	JAD
CHECKED:	
APPROVED:	

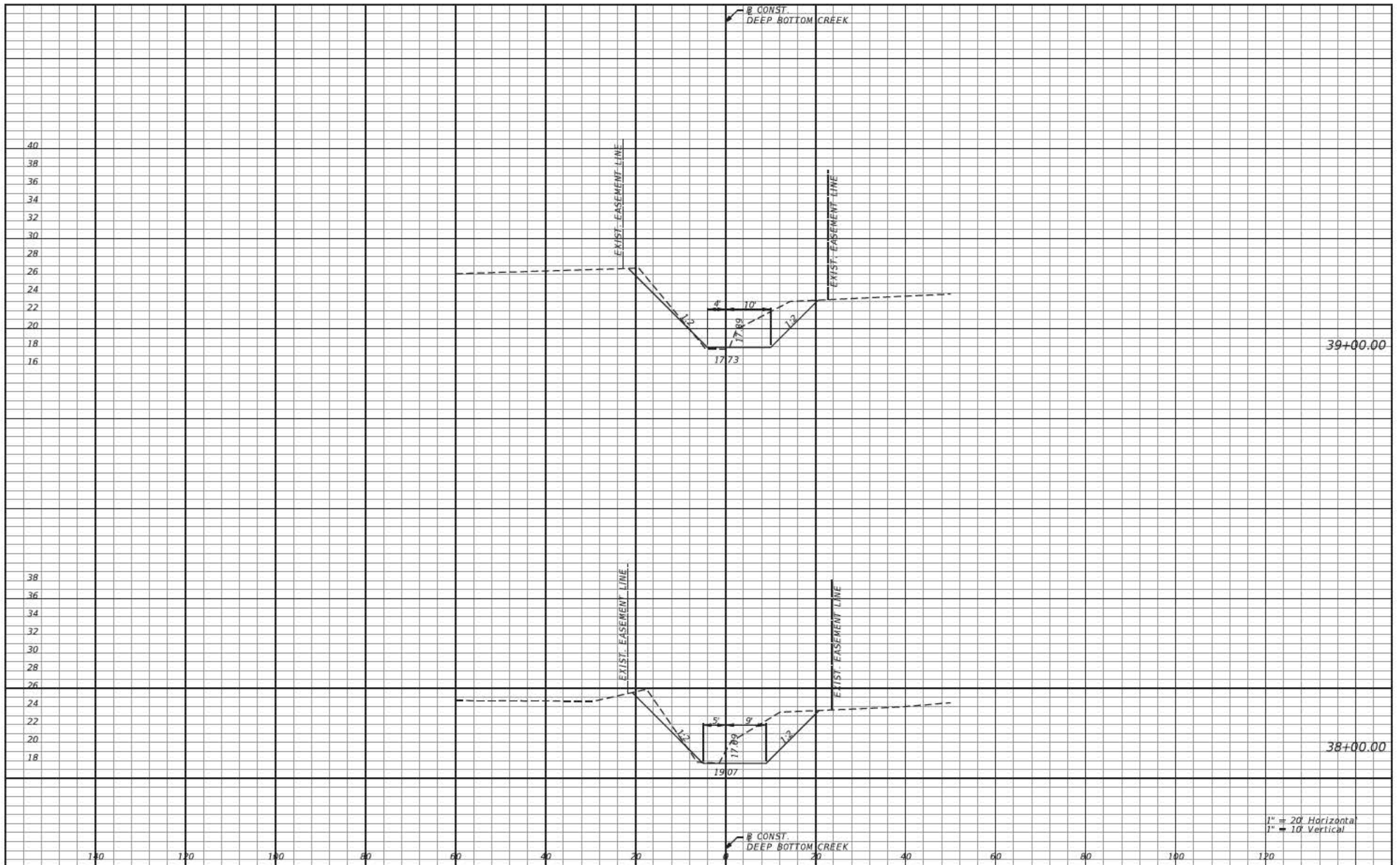
PROJECT NO. / DASH NO.	B151448.33
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DEEP BOTTOM CREEK CROSS SECTIONS

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

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C-19



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LAURA S. PHILLIPS, P.E. L.C. No. 54972

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
CHECKED:  
APPROVED:

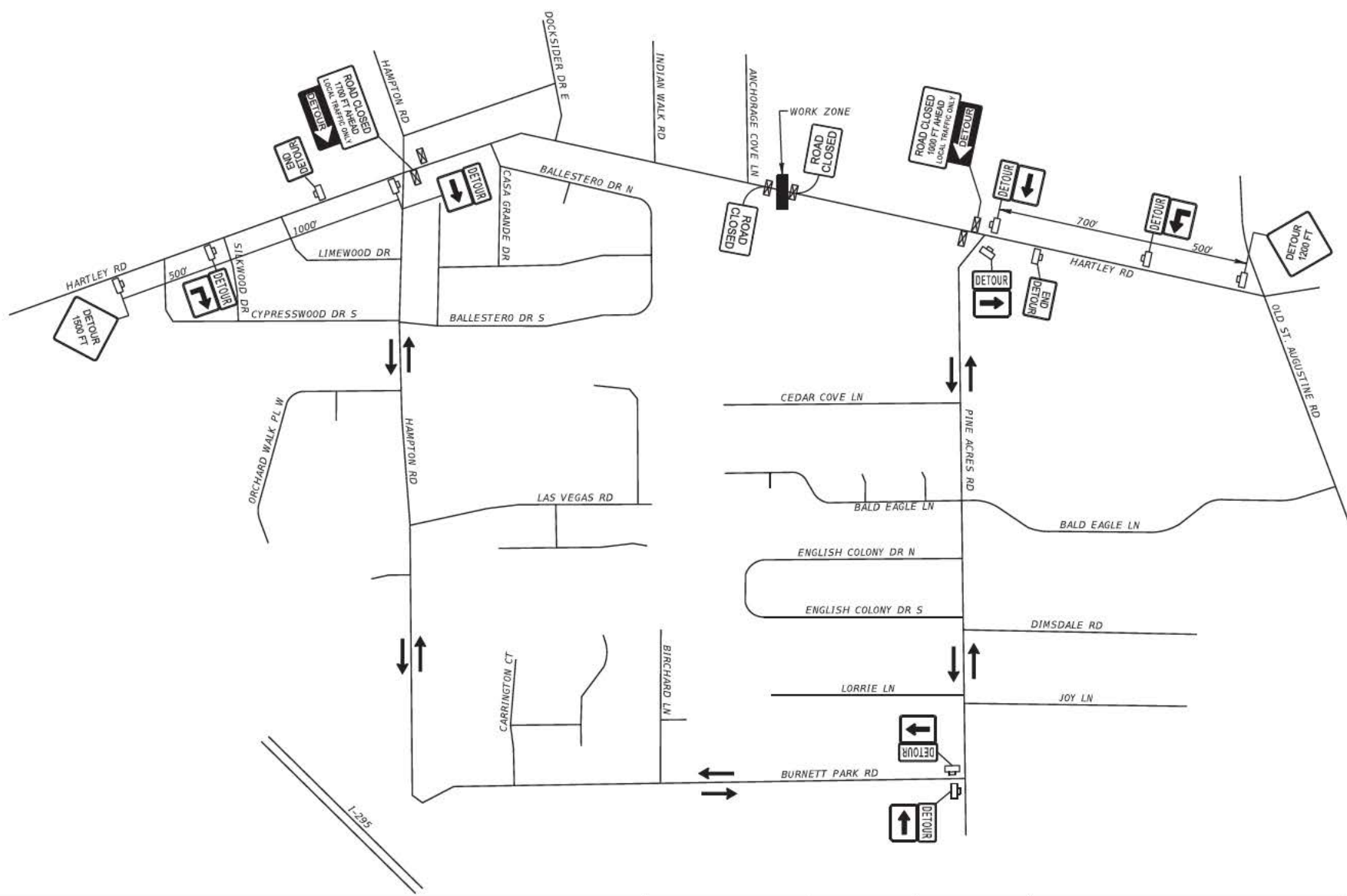
PROJECT NO. / DASH NO.  
B151448.33

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DEEP BOTTOM CREEK CROSS SECTIONS

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET NO.  
C-20



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1301 Riverplace Blvd, Suite 900  
Jacksonville, FL 32207  
904.383.1110  
Certificate of Authorization: EB9951

ROBERT G. BAXTER, P.E. LIC. No. 63567

SCALE: AS SHOWN  
DATE: 6/3/2020  
DRAWN: JAD  
CHECKED:  
APPROVED:

PROJECT NO. / DASH NO.:  
B151448.33  
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TRAFFIC CONTROL PLAN  
  
HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

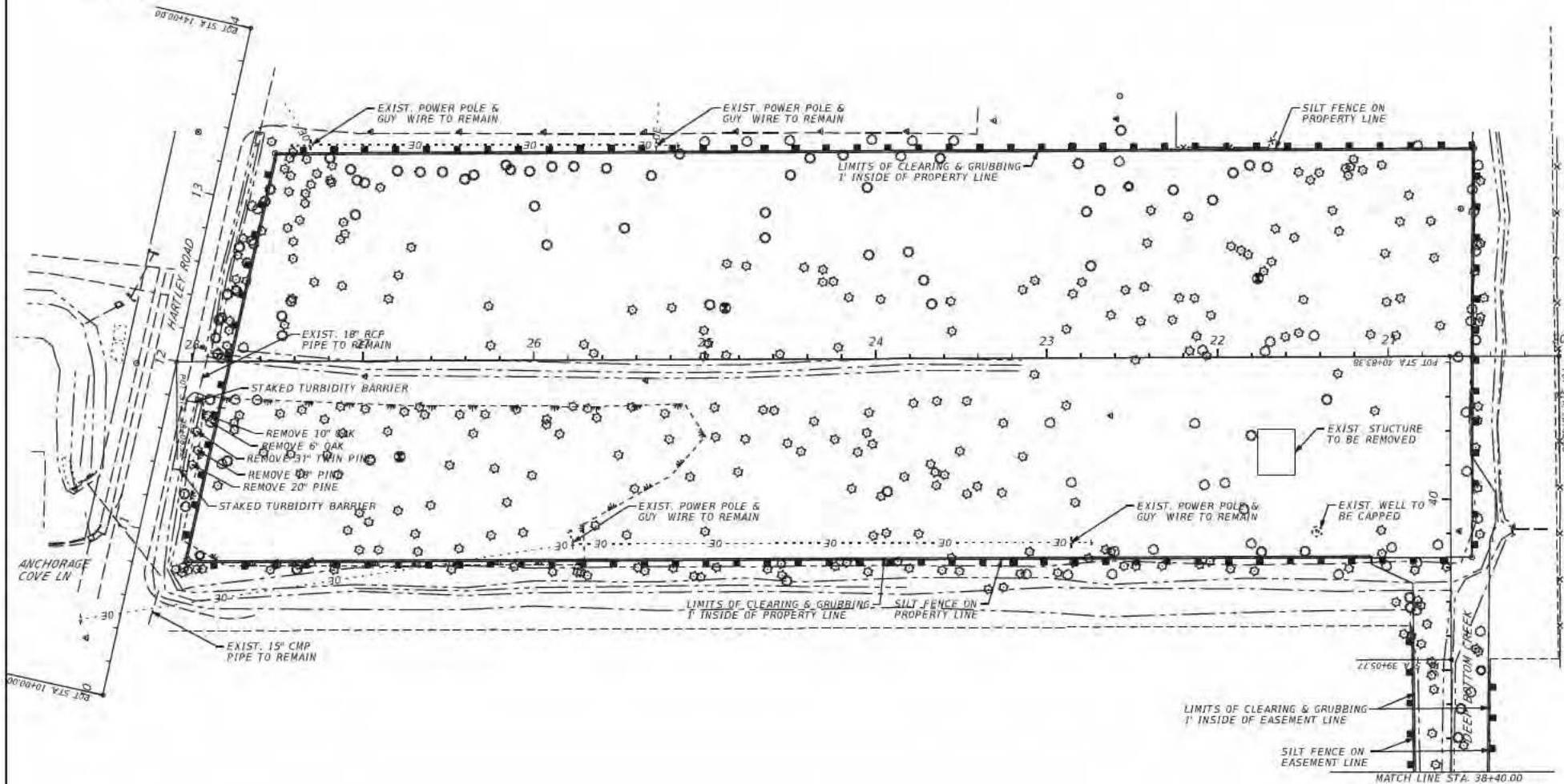
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C-21

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- NOTES:  
 1. REMOVE AND HAUL OFF SITE, ALL TREES WITHIN THE LIMITS OF CLEARING & GRUBBING.  
 2. REMOVE AND HAUL OFF SITE AND PROPERLY DISPOSE OF, ALL STRUCTURES WITHIN THE LIMITS OF CLEARING & GRUBBING.



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**gai consultants**  
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 Jacksonville, FL 32207  
 904.363.1500  
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JOSEPH G. BAXTER, P.E. US No. 63567

SCALE:	AS SHOWN
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APPROVED:	

PROJECT NO. 1 DASH RD.  
 B151448.33

CLEARING & GRUBBING PLAN

HARTLEY ROAD REGIONAL POND  
 JACKSONVILLE, FLORIDA

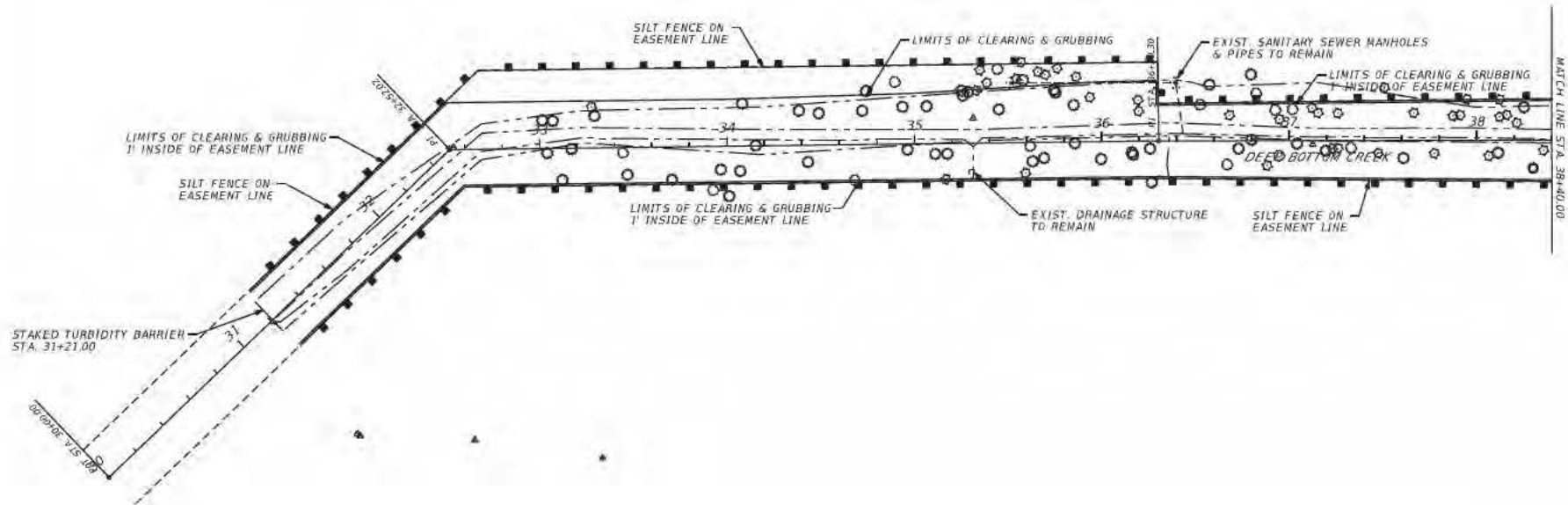
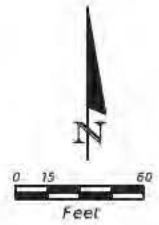
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CG-1

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904.363.1550  
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ROBERT G. BAXTER, P.E. Lic. No. 63567

SCALE:	AS SHOWN	PROJECT NO. / DASH NO.	B151448.33
DATE:	6/3/2020		
DRAWN:	JAD		
CHECKED:			
APPROVED:			

CLEARING & GRUBBING PLAN

HARTLEY ROAD REGIONAL POND  
JACKSONVILLE, FLORIDA

SHEET  
NO.

CG-2

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