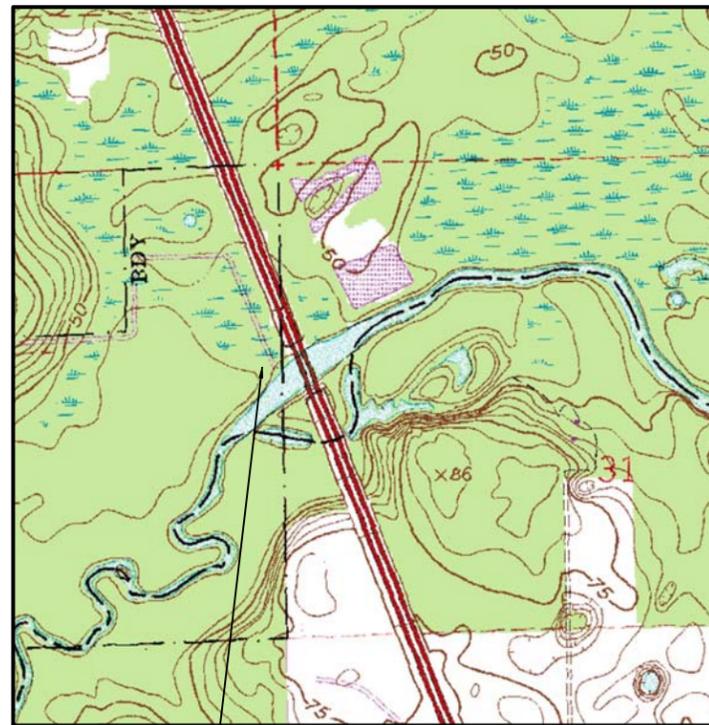


BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS

COLUMBIA COUNTY, FLORIDA

SECTION 34, 35, & 36, TOWNSHIP 6 S., & RANGE 17 E.



PROJECT LOCATION

PLANS PREPARED FOR:

CLINT PITMAN, PROJECT MANAGER
 COLUMBIA COUNTY BOCC
 341 SE CHARMONT LANE
 LAKE CITY, FL. 32025
 386-719-7545

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FINAL CONSTRUCTION PLANS
 03/2014



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COVER SHEET

REVISIONS:

JOB NUMBER: L110102CCB	DESIGNED BY: []	DRAFTED BY: []	CHECKED BY: []
DATE: 10/2011	CM	CM	GB
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GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY AND PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS AS SET FORTH BY THE ISSUED SUWANNEE RIVER WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT & THE ARMY CORPS OF ENGINEERS PERMIT.
- THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
- THE SITE IS LOCATED IN SECTION 34, 35 & 36, TOWNSHIP 6 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA.
- THE CONTRACTOR SHALL IMPLEMENT ALL COMPONENTS OF THE EROSION AND SEDIMENTATION CONTROL PLAN PRIOR TO ANY EARTH DISTURBING ACTIVITIES. ALL COMPONENTS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL VEGETATION IS ESTABLISHED, THE ENTIRE PROJECT AREA IS STABILIZED AND THE OWNER HAS ACCEPTED OPERATION AND MAINTENANCE.
- ALL SLOPES OF THE STORMWATER BASIN SHALL BE SOD. ALL SLOPES STEEPER THAN 3:1 SHALL BE STAPLED SOD.
- ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS. FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THOUGH AUGUST, THE MIX SHALL CONSIST OF 70 PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
- THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL PROTECT ALL UTILITIES WITHIN THE PROJECT AREAS.
- THE CONTRACTOR SHALL STOCKPILE ALL EXCESS EARTH ON SITE AS INDICATED IN THE PLANS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT AREA.
- CONTRACTOR SHALL PROVIDE ACTUAL INVERT ELEVATIONS ON ALL DRAINAGE STRUCTURES, INCLUDING CULVERTS, PRIOR TO PLACING ANY BASE MATERIAL. DEVIATIONS FROM THE PLANS SHALL BE APPROVED BY THE ENGINEER BEFORE CONTINUING WORK.
- THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS PREPARED BY NORTH FLORIDA PROFESSIONAL SERVICES, INC., 03/2014
- IF UNSUITABLE MATERIAL IS ENCOUNTERED DURING GRADING, CONTRACTOR SHALL REMOVE UNSUITABLE MATERIAL TO A DEPTH OF 24" BELOW FINISHED GRADE WITHIN THE CONSTRUCTION LIMITS.
- THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A NOTICE OF CONSTRUCTION COMMENCEMENT TO THE WATER MANAGEMENT DISTRICT AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

- NO WORK SHALL BE PERFORMED ON SATURDAY, SUNDAY OR HOLIDAY WITHOUT WRITTEN NOTIFICATION TO THE COUNTY AND COUNTY ENGINEER.
- CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY MEETING THE REQUIREMENTS OF CHAPTER 61G17 F.A.C. FOR THE STORMWATER MANAGEMENT SYSTEMS. INCLUDE HORIZONTAL AND VERTICAL DIMENSIONAL DATA SO THAT IMPROVEMENTS ARE LOCATED AND DELINEATED RELATIVE TO THE BOUNDARY. PROVIDE SUFFICIENT DETAILED DATA TO DETERMINE WHETHER THE IMPROVEMENTS WERE CONSTRUCTED IN ACCORDANCE WITH THE PLANS. SUBMIT THE SURVEY TO THE ENGINEER ON REPRODUCIBLE 20LB. VELLUM. A COPY OF THE AS-BUILT PLANS (IN PAPER AND DIGITAL AUTOCAD FORMAT) MUST BE SUBMITTED TO THE CITY OF LAKE CITY, FLORIDA (DEPARTMENT OF GROWTH MANAGEMENT) AND THE ENGINEER.

- THE CONTRACTOR SHALL SUBMIT A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NOTICE OF INTENT ALONG WITH SUPPORTING DOCUMENTATION TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AT LEAST 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMIT FEES.

- IF DURING CONSTRUCTION OR OPERATION OF THE STORM WATER MANAGEMENT SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDIAN AQUIFER SYSTEM, CORRECTIVE ACTIONS DESIGNED OR APPROVED BY A REGISTERED PROFESSIONAL SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE. A REPORT PREPARED BY A REGISTERED PROFESSIONAL MUST BE PROVIDED AS SOON AS PRACTICAL TO THE DEPARTMENT FOR REVIEW AND APPROVAL THAT PROVIDES REASONABLE ASSURANCE THAT THE BREACH WILL BE PERMANENTLY CORRECTED.

ROADWAY CONSTRUCTION REQUIREMENTS

- THE ROADWAY CONSTRUCTION PLANS MUST BE REVIEWED AND APPROVED PRIOR TO COMMENCING CONSTRUCTION.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
- A TESTING LABORATORY RETAINED BY THE CONTRACTOR SHALL CERTIFY THE MATERIALS AND CONSTRUCTION. COPIES OF ALL TEST RESULTS SHALL BE PROVIDED PRIOR TO ACCEPTANCE.
- ALL TRAFFIC CONTROL AND SAFETY ITEMS (STRIPPING, STOP BARS, REGULATORY SIGNS, ETC.) SHALL BE IN PLACE.
- THE TEMPORARY GRASS SHALL BE SUFFICIENT TO CONTROL EROSION.
- FINAL INSPECTION FOR ACCEPTANCE TO BE PERFORMED BY COUNTY ENGINEER, COUNTY PUBLIC WORKS DIRECTOR, AND COUNTY COMMISSIONER (SHOULD HE/SHE DESIRE TO ATTEND).

INSPECTION BY COUNTY REPRESENTATIVE

- COMPLETION OF CLEARING AND GRUBBING. VISUAL ONLY - NO TEST REQUIREMENTS.
- ROUGH GRADE AND DRAINAGE STRUCTURES IN PLACE. TEST RESULTS - LBR - PIPE BACKFILL DENSITY.
- SUBGRADE COMPLETE. TEST RESULTS - DENSITY.
- LIMEROCK PLACE AND FINISHED. TEST RESULTS - THICKNESS. CROSS SECTION AND DENSITY.
- ASPHALT CONCRETE IN PLACE. TEST RESULTS - THICKNESS AND DENSITY.
- SEE PROJECT MANUALS FOR FURTHER SPECIFICATIONS.
- FINAL INSPECTION.

SYMBOLS LEGEND

	BENCHMARK		MANHOLE SANITARY EXISTING		SOIL BEARING LOCATION
	BOX CABLE		MANHOLE SANITARY PROPOSED		TAP SANITARY SEWER EXISTING
	BOX ELECTRICAL		MANHOLE STORM EXISTING		TAP SANITARY SEWER PROPOSED
	BOX TRAFFIC LIGHT		MANHOLE STORM PROPOSED		VALVE, AIR VENT AUTO EXISTING
	CATCH BASIN ROUND		MANHOLE WATER EXISTING		VALVE, AIR VENT AUTO PROPOSED
	CATCH BASIN SQUARE		MANHOLE WATER PROPOSED		VALVE, AIR VENT HAND EXISTING
	CLEANOUT EXISTING		DELTA POINT EXISTING		VALVE, AIR VENT HAND PROPOSED
	CLEANOUT PROPOSED		DELTA POINT PROPOSED		VALVE, BACKFLOW PREVENTER EXISTING
	CULVERT MITERED END SECTION		STANDARD POINT		VALVE, BACKFLOW PREVENTER PROPOSED
	DITCH BLOCK		METER, GAS EXISTING		VALVE, GAS SHUT OFF EXISTING
	DOT MARKER FOUND		METER, GAS PROPOSED		VALVE, GAS SHUT OFF PROPOSED
	ELECTRICAL DISTRIBUTION SWITCH		METER, SANITARY EXISTING		VALVE, GATE GAS EXISTING
	FLOW ARROW		METER, SANITARY PROPOSED		VALVE, GATE GAS PROPOSED
	GRINDER STATION EXISTING		METER, WATER EXISTING		VALVE, GATE WATER EXISTING
	GRINDER STATION PROPOSED		METER, WATER PROPOSED		VALVE, GATE WATER PROPOSED
	HANDICAP SYMBOL		METER WATER STATION		VALVE, WATER IRRIGATION CONTROL
	HANDHOLE STORM		MONUMENT FOUND CONCRETE		VALVE, SANITARY VAULT EXISTING
	HANDHOLE WATER		MONUMENT (PRM) MARKER CONCRETE		VALVE, SANITARY VAULT PROPOSED
	HYDRANT, FIRE EXISTING		MONUMENT SET CONCRETE		VALVE, WATER VAULT EXISTING
	HYDRANT, FIRE PROPOSED		PEDESTAL, TELEPHONE EXISTING		VALVE, WATER VAULT PROPOSED
	HYDRANT, FLUSHING EXISTING		PEDESTAL, TELEPHONE PROPOSED		WATER STATION
	HYDRANT FLUSHING PROPOSED		POLE, GUY WIRE EXISTING		WATER TANK
	IRON ROD SET		POLE, GUY WIRE PROPOSED		WELL
	IRON ROD FOUND		POLE, LIGHT EXISTING		WELL, MONITORING
	LINE, BASE		POLE, LIGHT PROPOSED		SEPTIC TANK
	LINE, CENTER		POLE, POWER EXISTING		ASPHALT
	LINE, PROPERTY		POLE, POWER PROPOSED		CONCRETE
	LIFT STATION EXISTING		POLE, POWER W/TRANSFORMER		GRAVEL
	LIFT STATION PROPOSED		POLE, UTILITY		
	MANHOLE, ELECTRICAL EXISTING		POST, FIBER OPTIC WARNING		
	MANHOLE, ELECTRICAL PROPOSED		SIGN, DOUBLE POST EXISTING		VIEW #
	MANHOLE, GAS EXISTING		SIGN, DOUBLE POST PROPOSED		PAGE #
	MANHOLE, GAS PROPOSED		SIGN, SINGLE POST EXISTING		TITLE
			SIGN, SINGLE POST PROPOSED		SCALE
					TITLE MARK
					SECTION DETAIL MARK

LINETYPE LEGEND

EXISTING	PROPOSED	
		FORCE MAIN
		WATER
		SANITARY
		GAS
		BURIED ELECTRIC
		BURIED TELEPHONE
		CABLE TV
		FIBER OPTIC
		OVERHEAD UTILITIES
		OVERHEAD ELECTRIC

MISCELLANEOUS LINETYPES

	EXISTING CORRUGATED METAL PIPE
	EXISTING ROUND CONCRETE PIPE
	EXISTING ELLIPTICAL CONCRETE PIPE
	EXISTING CORRUGATED PLASTIC PIPE
	FIELD FENCE
	CHAIN LINK FENCE
	WOOD POST FENCE
	PROPERTY BOUNDARY
	RIGHT OF WAY LINE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	SILT FENCE

ABBREVIATION LEGEND

ARC LENGTH	L	POINT OF BEGINNING	PB
BENCHMARK	BM	POINT OF COMMENCEMENT	PC
CALCULATED	(C)	POINT OF CURVATURE	POC
CHORD BEARING	CH	POINT OF COMPOUND CURVATURE	PCC
CONCRETE MONUMENT	CM	POINT OF INTERSECTION	PI
CLEANOUT	CO	POINT OF REVERSE CURVATURE	PR
DEED	(D)	POINT OF TANGENT	PT
DITCH, TOP OF	TOD	PIPE, CORRUGATED METAL	CMP
DITCH, BOTTOM OF	BOD	PIPE, METAL ARC BITUMINOUS COATED	CMCA
EAST	E	PIPE, REINFORCED CONCRETE	RCP
EDGE OF PAVEMENT	EOP	PIPE, REINFORCED CONCRETE ELLIPTICAL	RCE
ELECTRICAL	E	PIPE, POLYETHYLENE	PE
END VERTICAL CURVE ELEVATION	EVCE	PIPE, POLYETHYLENE HIGH DENSITY	HDPE
END VERTICAL CURVE STATION	EVCS	PLAT	(P)
FOUND	FND	PROFILE GRADE LINE	PGL
FINISH FLOOR ELEVATION	FFE	RADIUS	R
GAS	G	RANGE	RNG
GROUND SPOT ELEVATION	X	REBAR	RB
IRON PIPE	IP	REBAR AND CAP	RBC
IRON ROD	IR	RECLAIMED WATER	RW
IRON ROD AND CAP	IRC	RIGHT OF WAY	R/W
LINEAR FEET	LF	SANITARY SEWER	SAN
LINE, BASE		SECTION	SEC
LINE, CENTER		SEWER TAP	ST
LINE, PROPERTY		SOUTH	S
MEASURED	(M)	STORM SEWER	SS
NAIL	NL	STORM WATER MANAGEMENT FACILITY	SWMF
NAIL AND DISK	NL+D	TANGENT	T
MANHOLE	MH	TOWNSHIP	TW
NO IDENTIFICATION	NO	UNDERGROUND CABLE	UC
NORTH	N	UNDERGROUND ELECTRIC	UG
OFFICIAL RECORD BOOK	ORB	UNDERGROUND TELEPHONE	UT
OFFSET	O/S	VALVE, COMBINATION AIR/VACUUM	CAV
OVERHEAD CABLE	OC	WATER LINE	W
OVERHEAD ELECTRIC	OE	WATER METER	WM
OVERHEAD TELEPHONE	OT		
PAGE(S)	PG		
PERMANENT CONTROL POINT	PCP		

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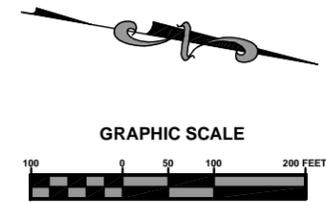
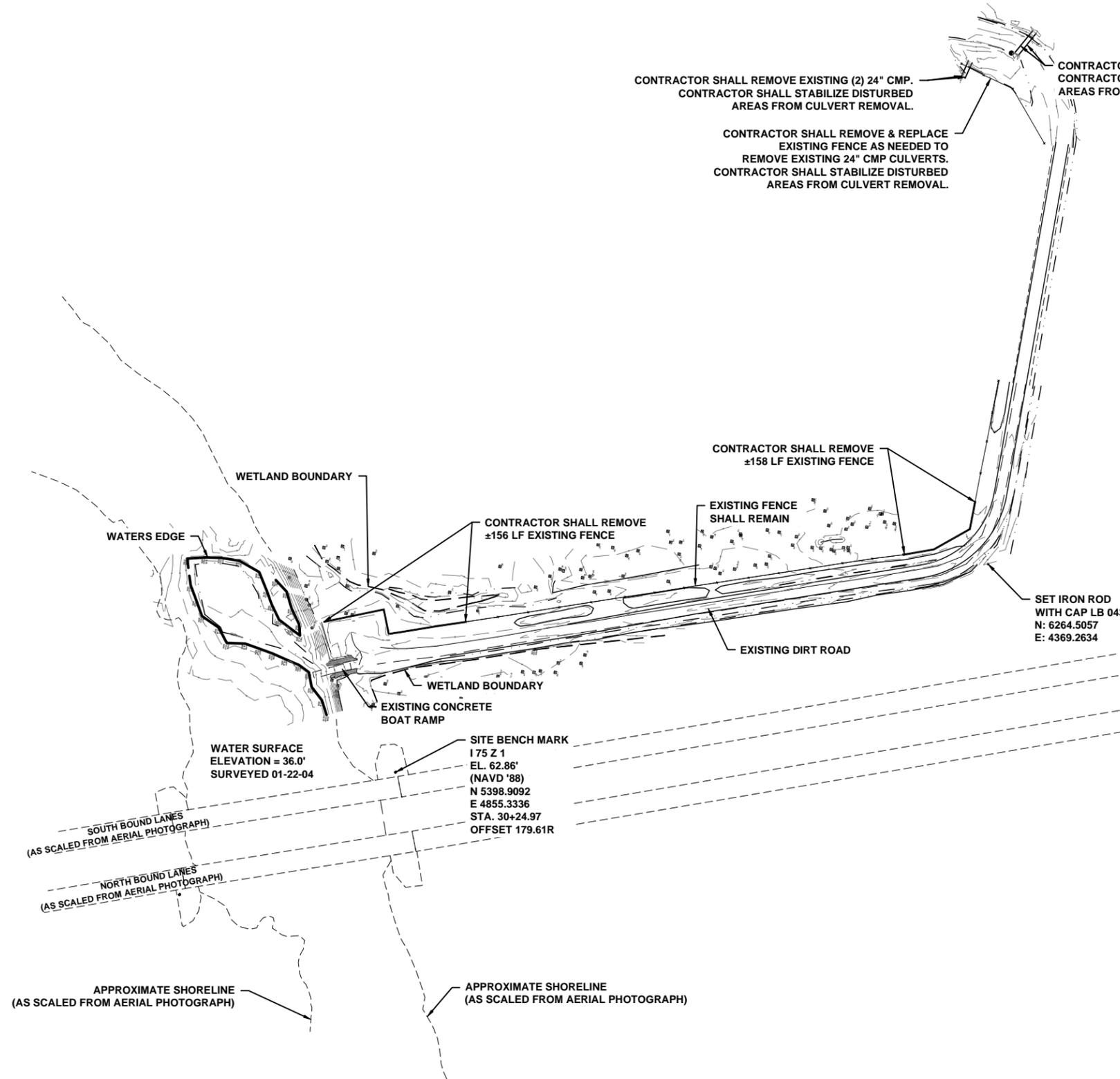


GENERAL NOTES & LEGEND
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
COLUMBIA COUNTY, FLORIDA

REVISIONS:
 JOB NUMBER: L110102CCB
 DESIGNED BY: DRAFTED BY: CHECKED BY:
 CM CM GB
 DATE: 10/2011
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LEGEND

- BENCHMARK
- IRON ROD
- ⊕ SPOT ELEVATIONS
- [H] HICKORY TREE
- [P] PINE TREE
- [O] OAK TREE
- X-X-X- FENCE
- T.O.B TOP OF BANK
- T.O.S TOP OF SLOPE
- CMP CORRUGATED METAL PIPE
- ⊕ CENTERLINE
- CONC. CONCRETE



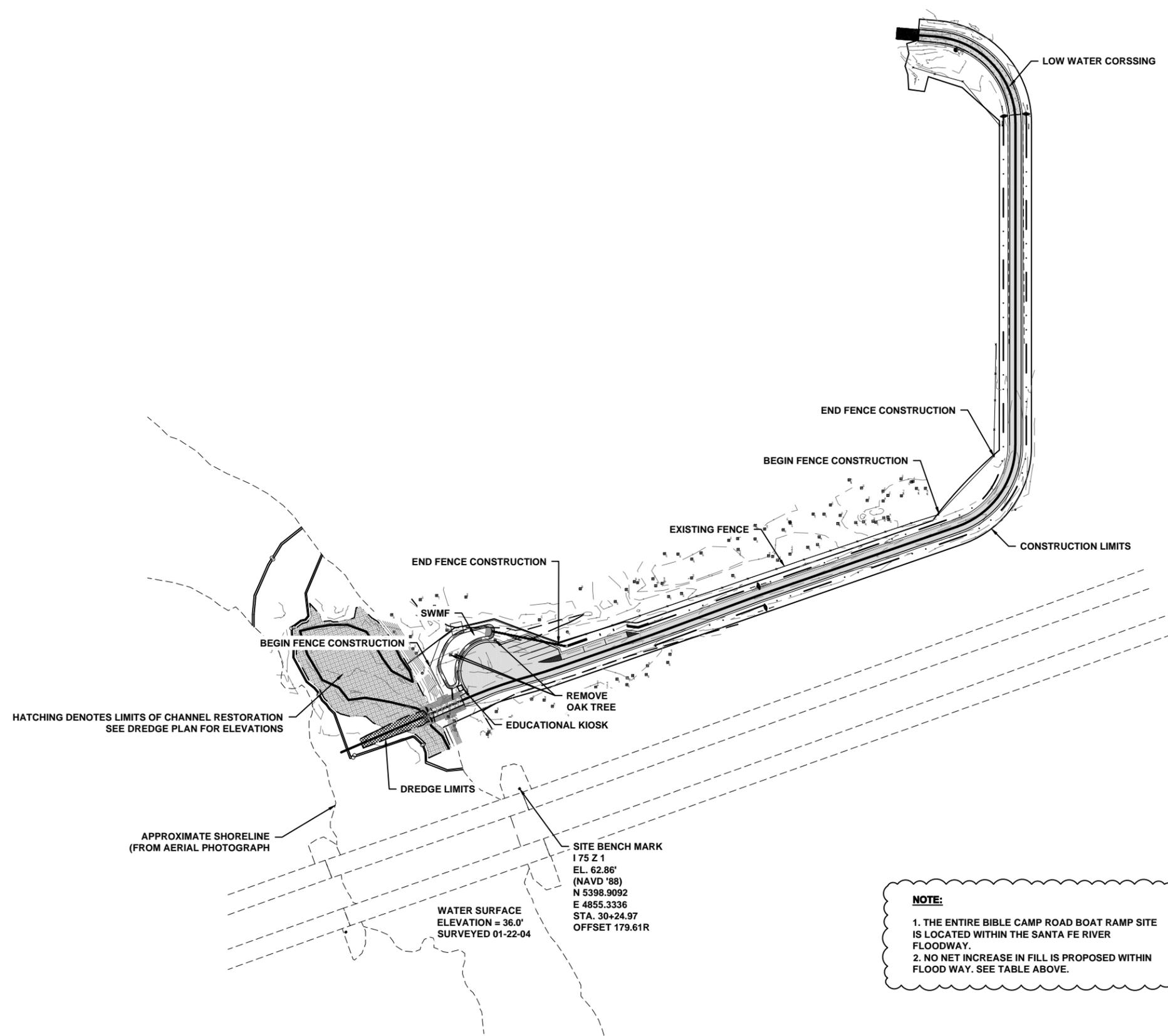
EXISTING CONDITIONS
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
COLUMBIA COUNTY, FLORIDA

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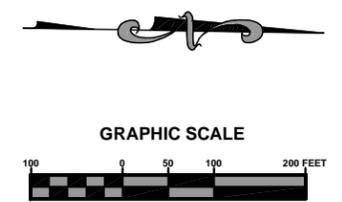
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FLOOD WAY EARTH WORK	
CUT VOLUME	2970 CY
FILL VOLUME	62.79 CY
NET VOLUME	2907.80 CY

NOTE:

1. THE ENTIRE BIBLE CAMP ROAD BOAT RAMP SITE IS LOCATED WITHIN THE SANTA FE RIVER FLOODWAY.
2. NO NET INCREASE IN FILL IS PROPOSED WITHIN FLOOD WAY. SEE TABLE ABOVE.



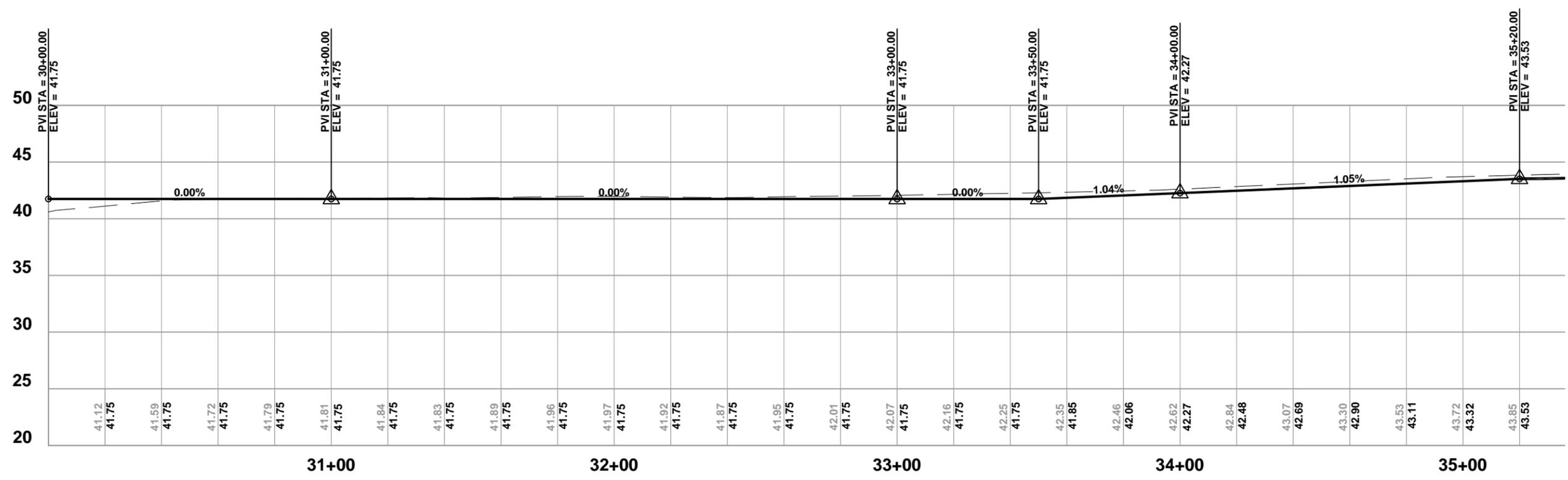
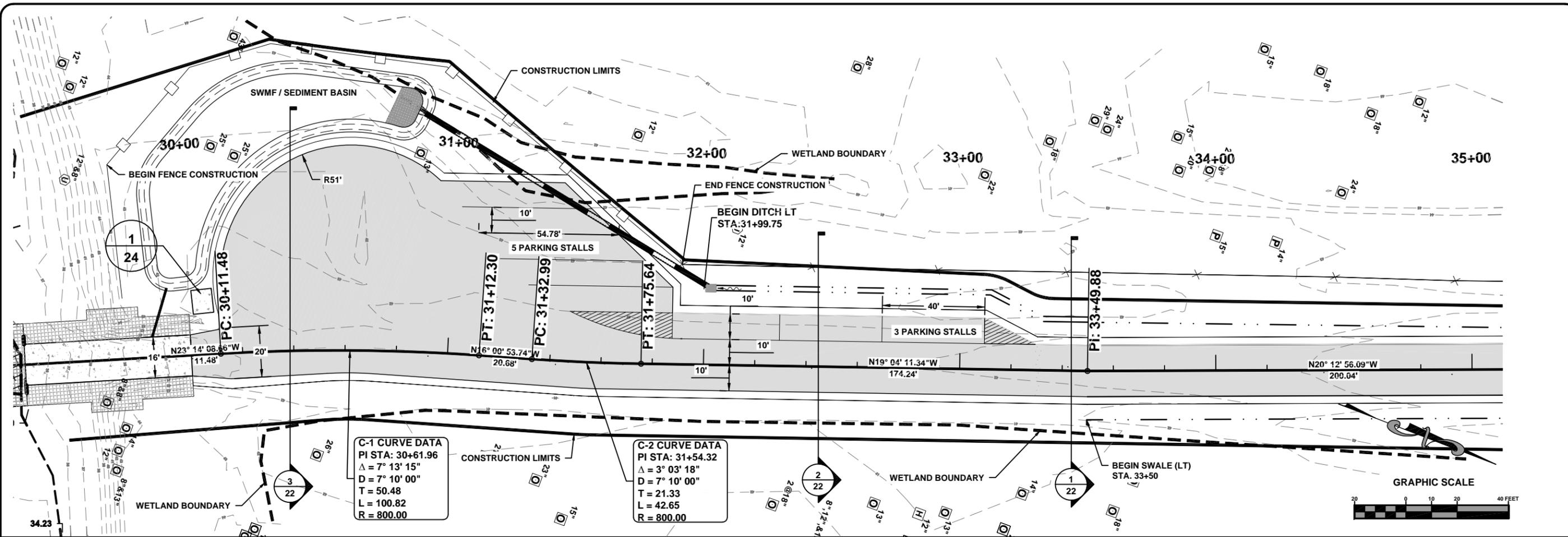
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OVERALL SITE PLAN
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
COLUMBIA COUNTY, FLORIDA

REVISIONS:

DESIGNED BY:	CM	CM	GB
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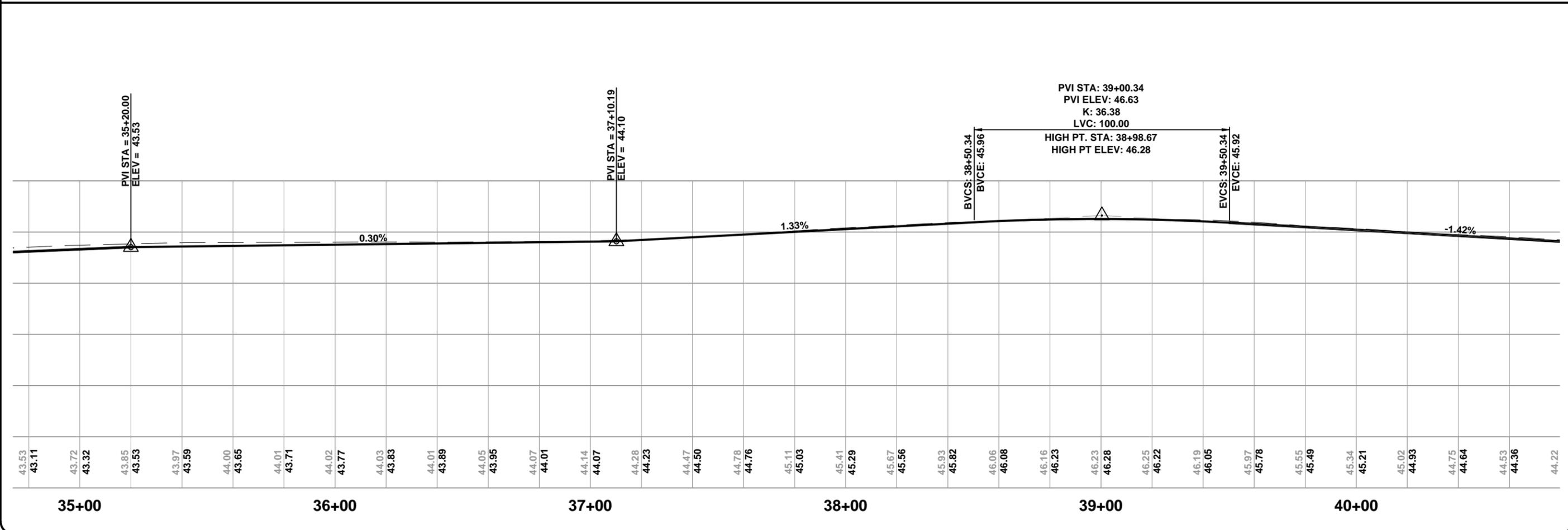
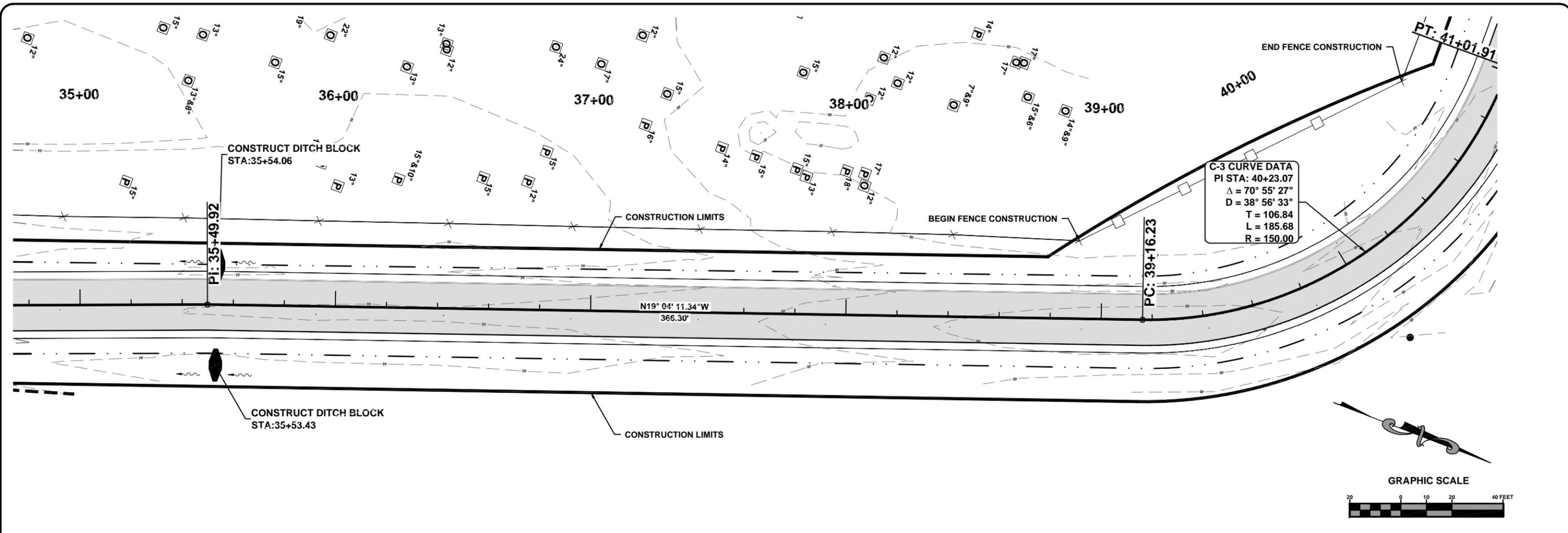


BIBLE CAMP ROAD PLAN & PROFILE
 BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

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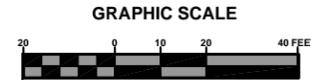
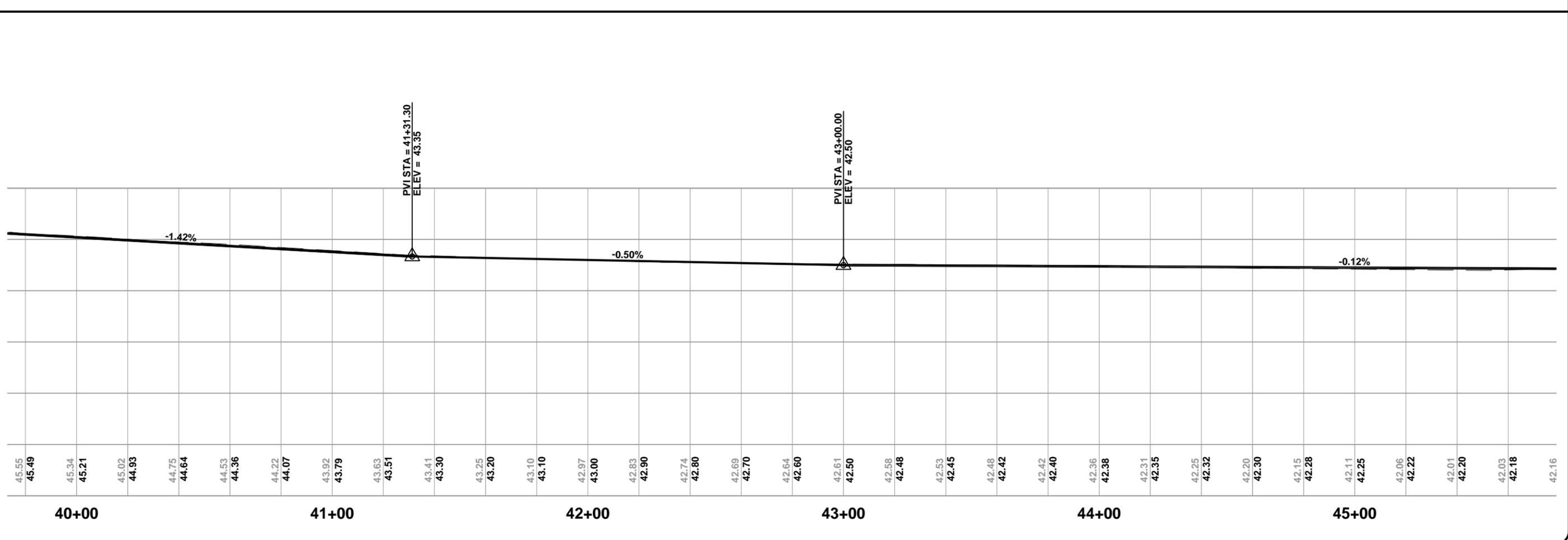
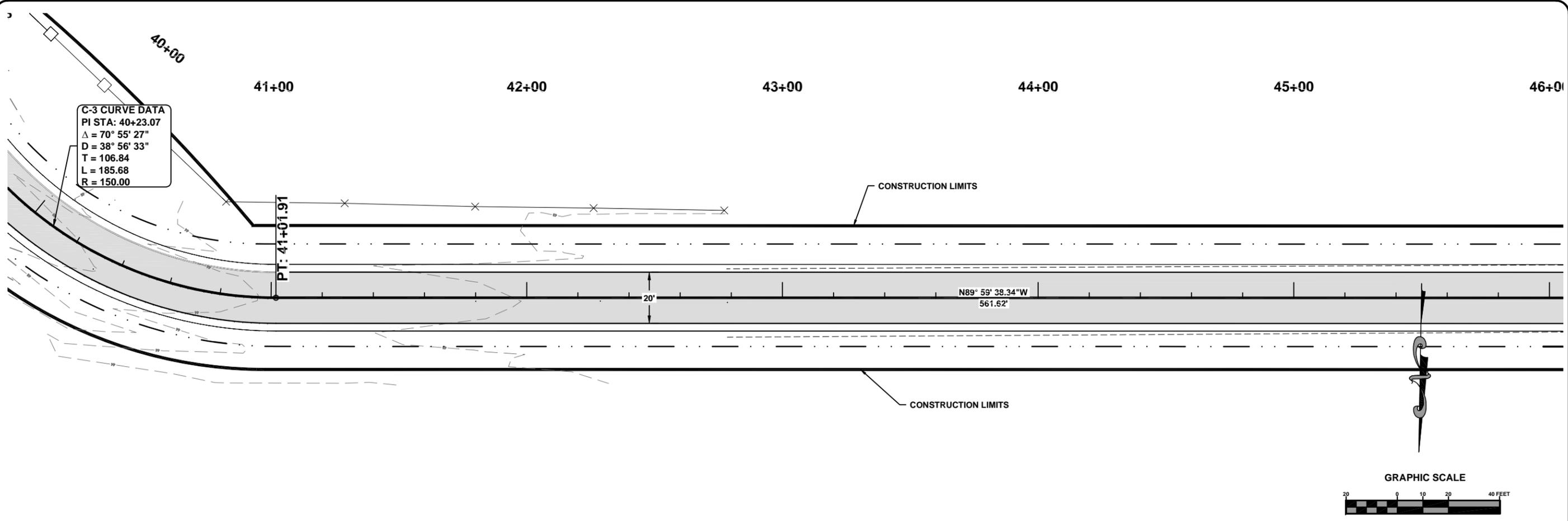
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 COLUMBIA COUNTY, FLORIDA

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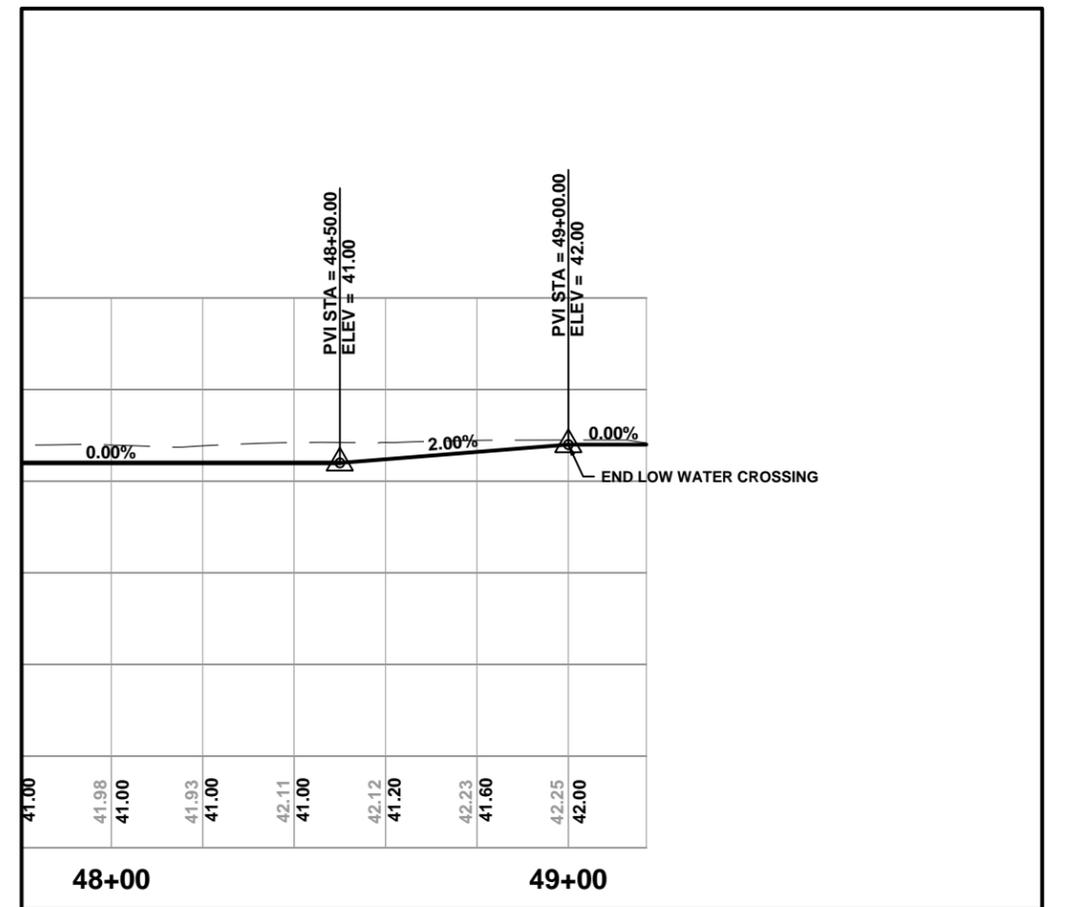
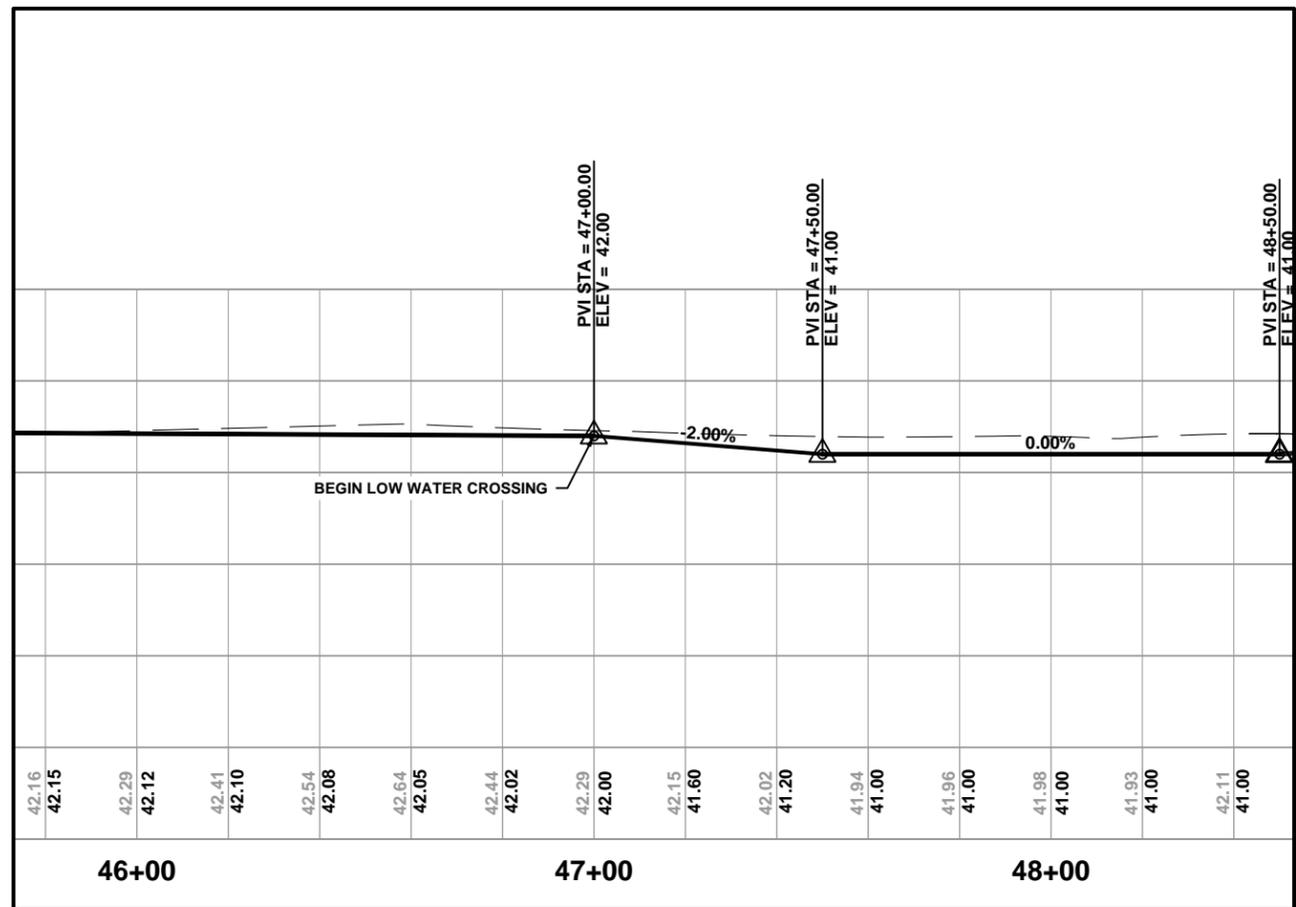
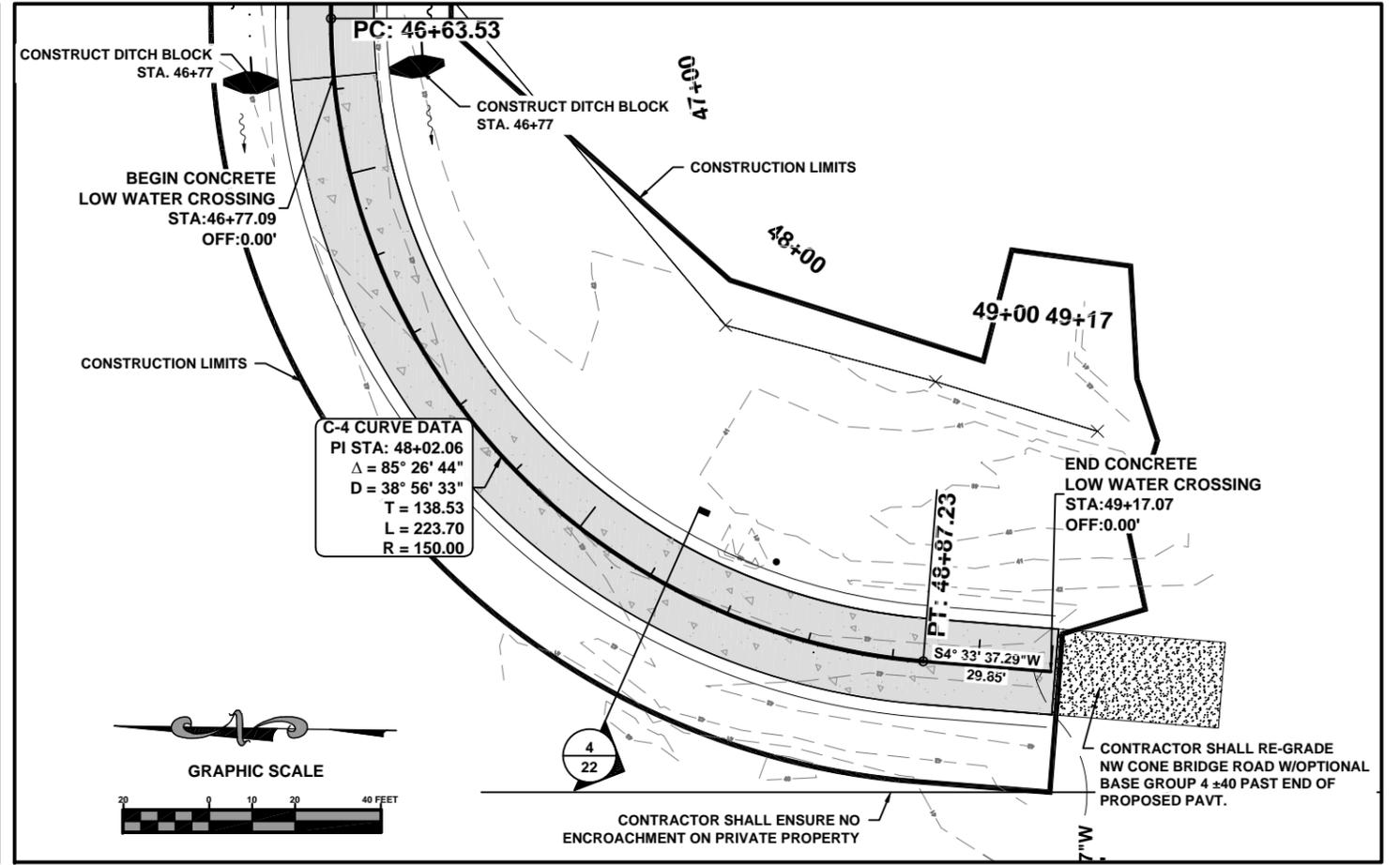
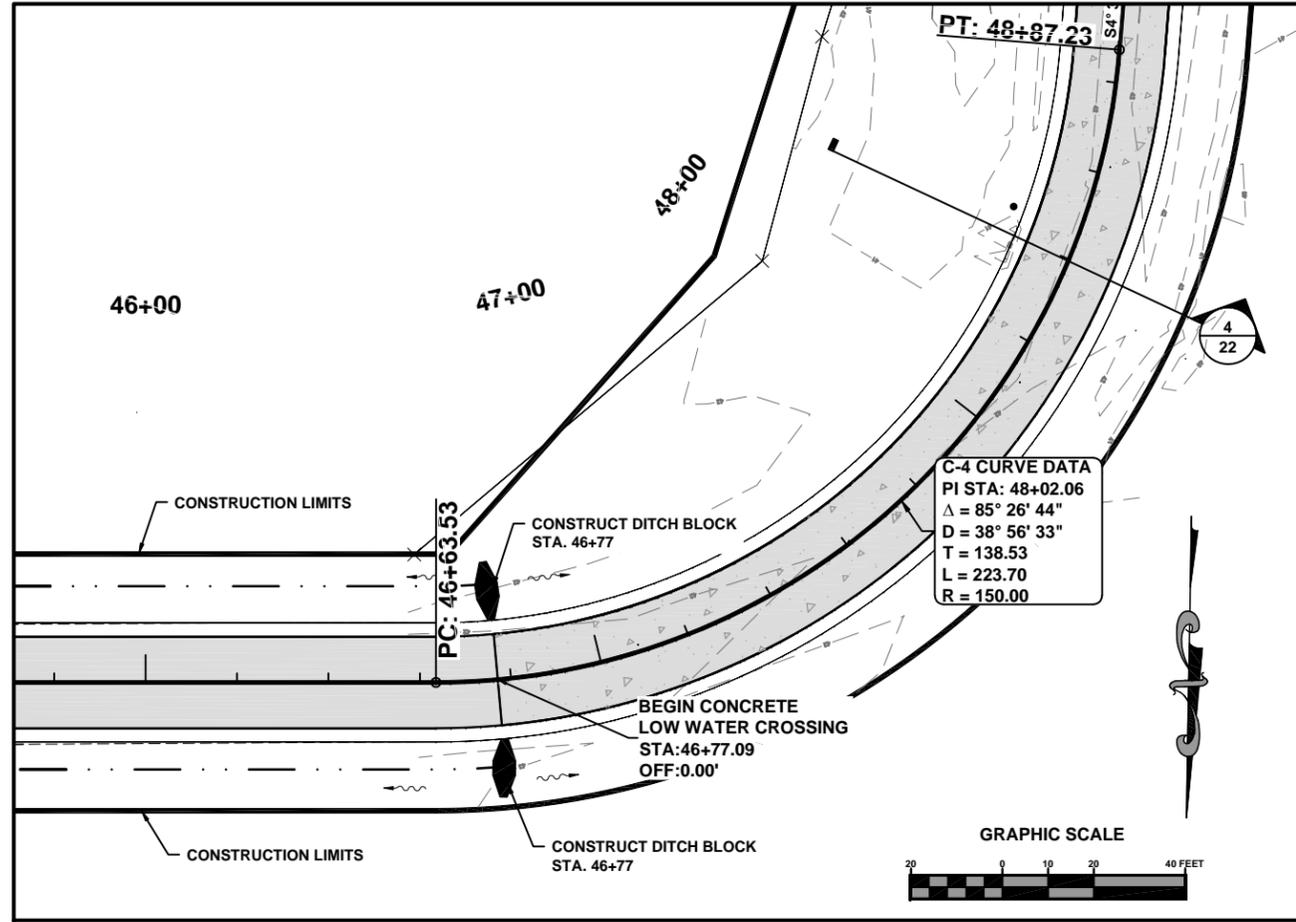
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 COLUMBIA COUNTY, FLORIDA

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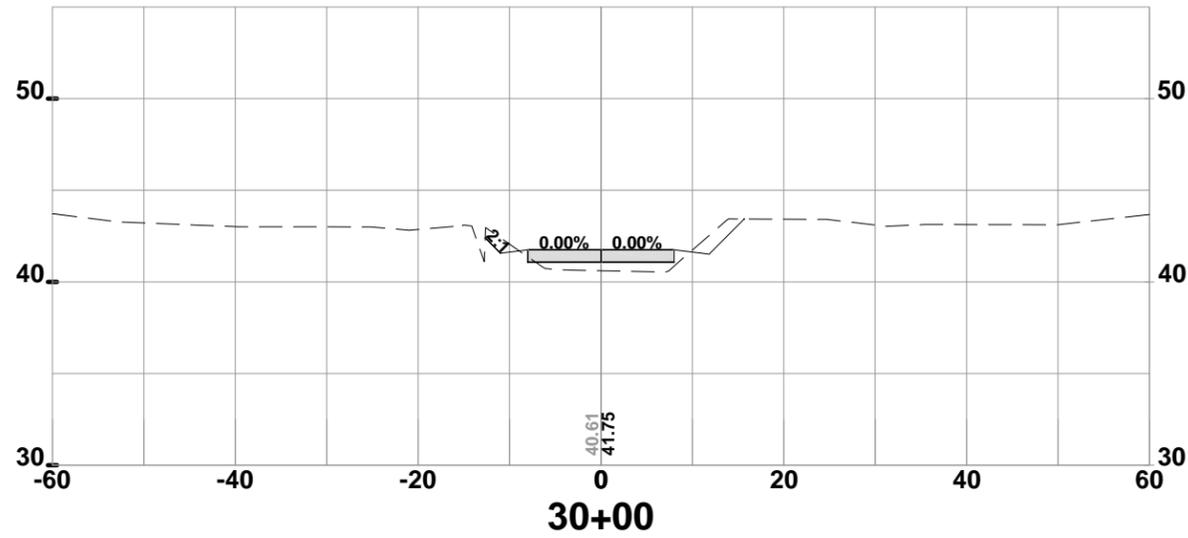
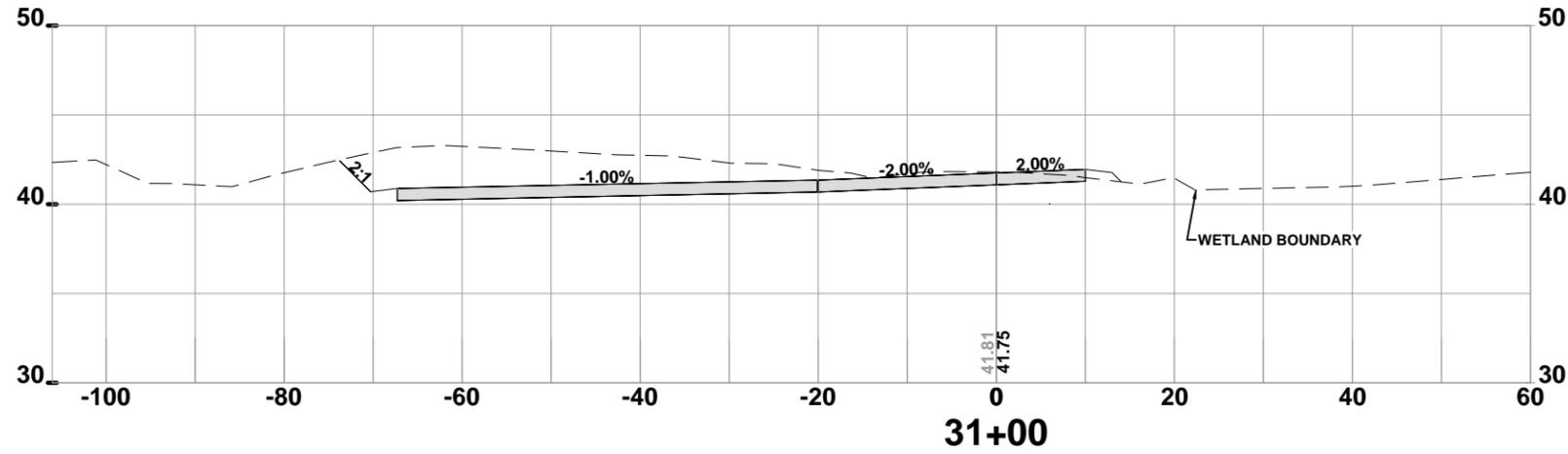
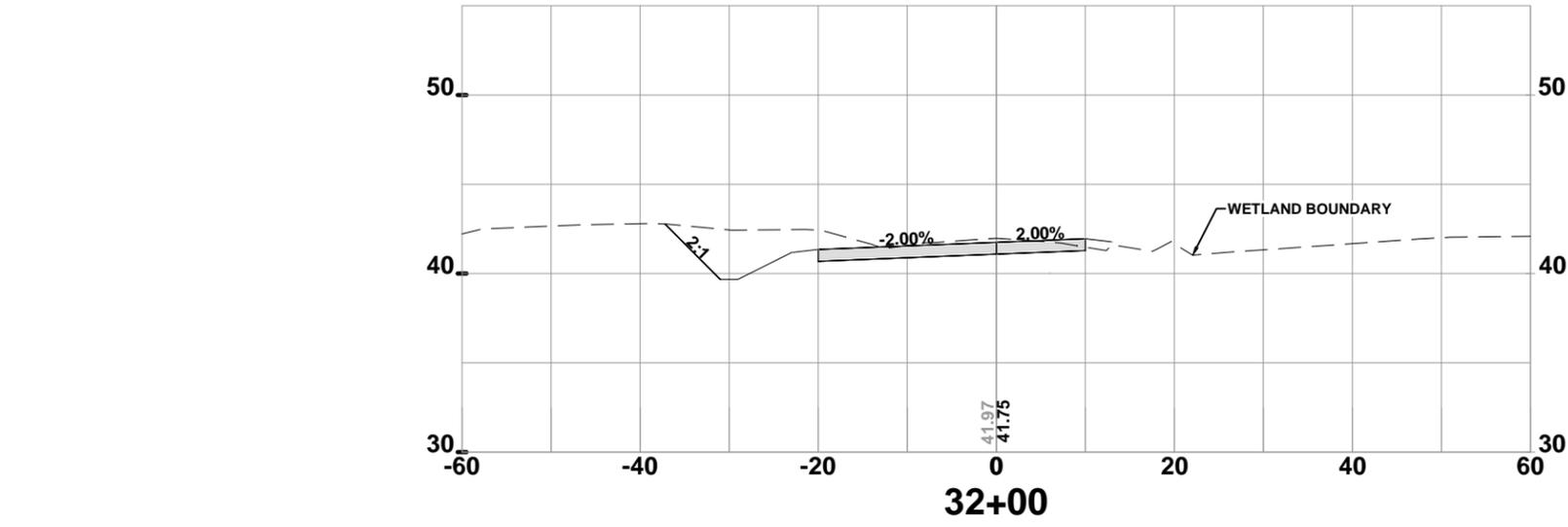


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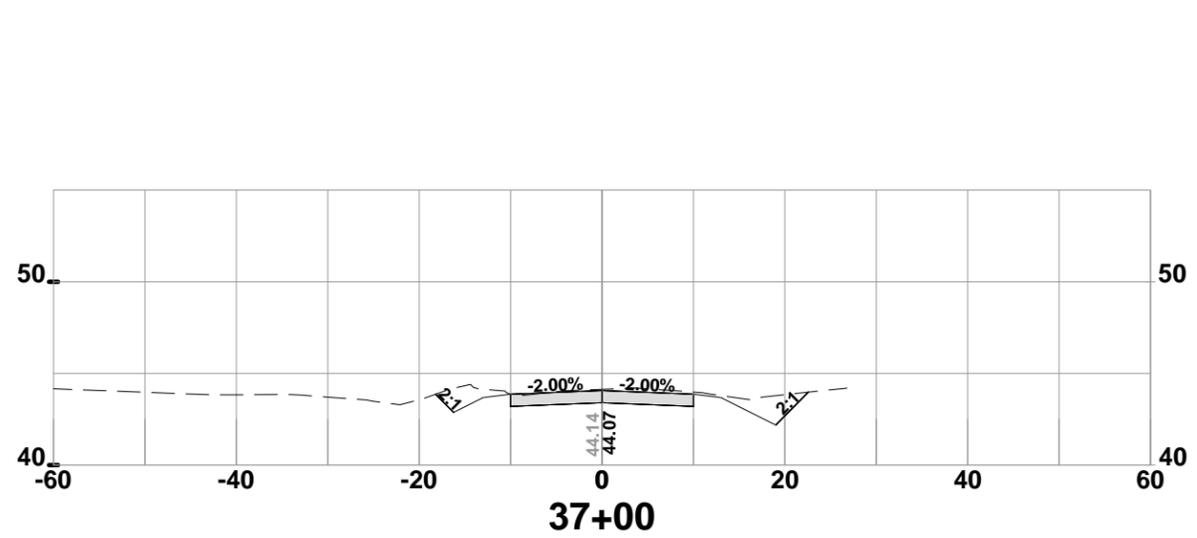
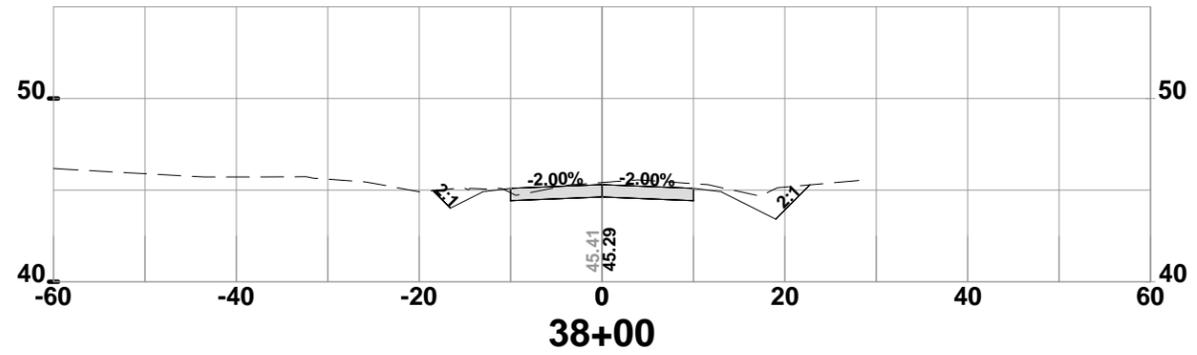
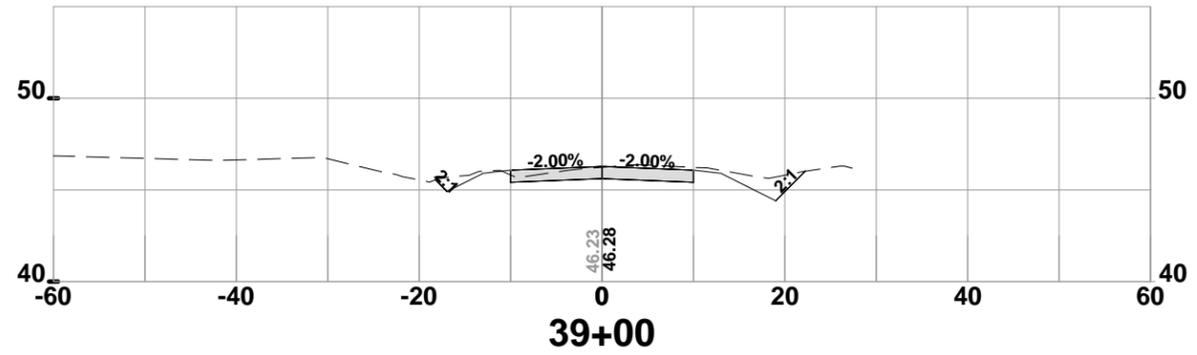
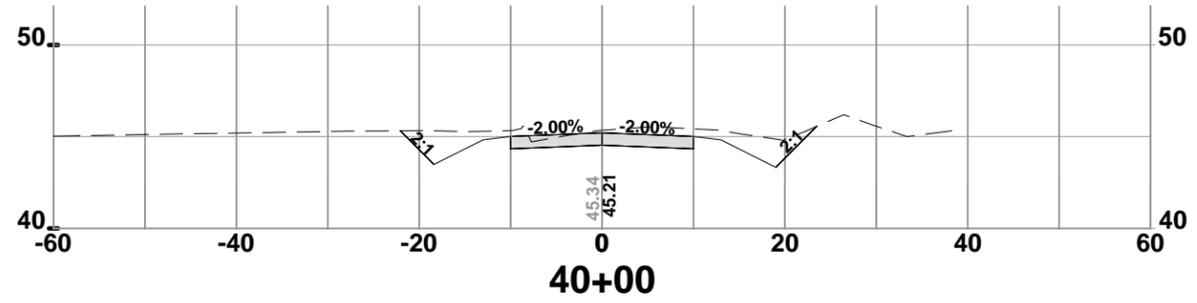
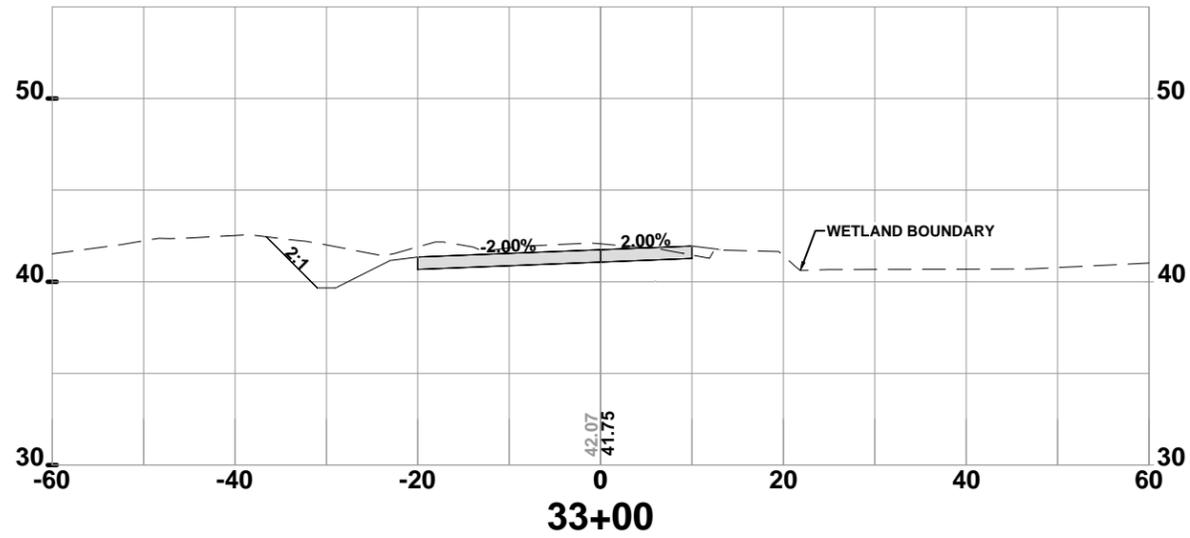
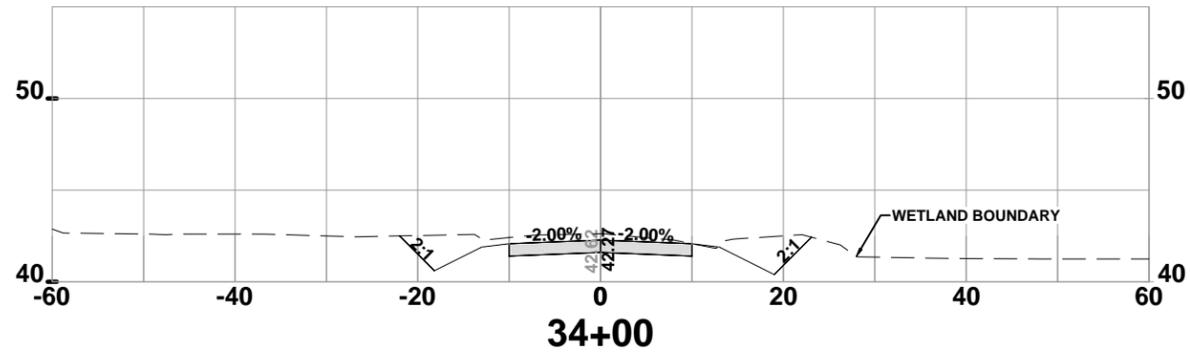
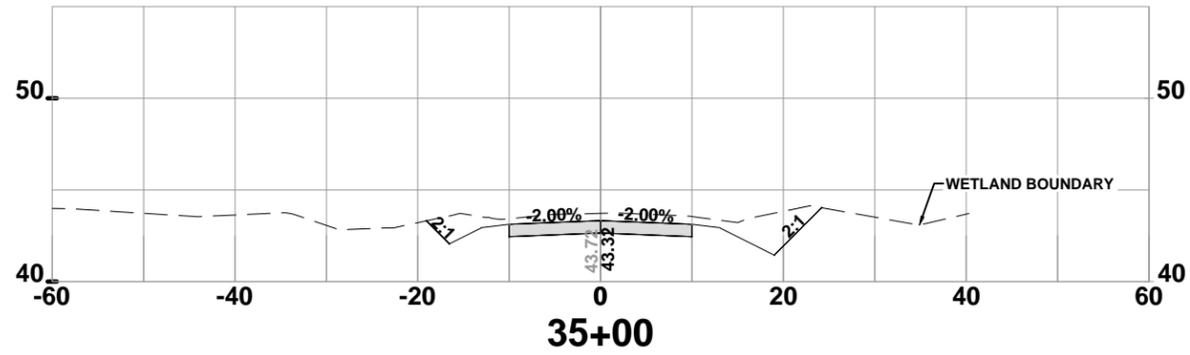
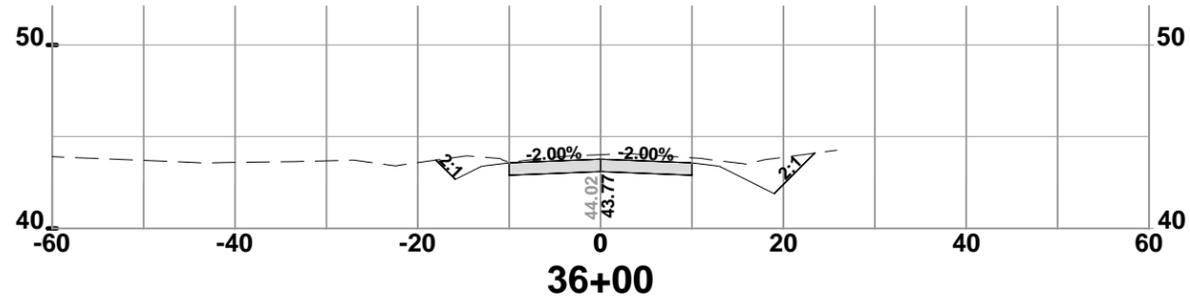
BIBLE CAMP ROAD CROSS SECTIONS
 BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA

North Florida Professional Services, Inc.
 P.O. BOX 3823
 Tallahassee, FL 32318
 Ph. 877-335-1525
 Fax. 386-752-4674
 Eng. Lic. 29011



REVISIONS:

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DATE:	10/2011	SIGNATURE & SEAL			
SHEET NO. 9					



BIBLE CAMP ROAD CROSS SECTIONS
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA

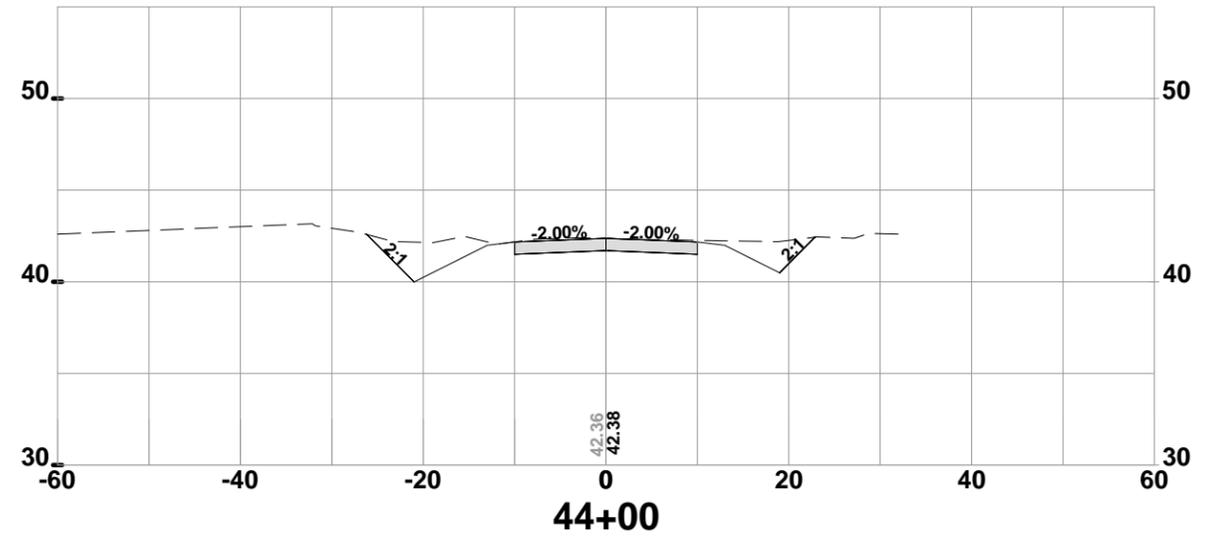
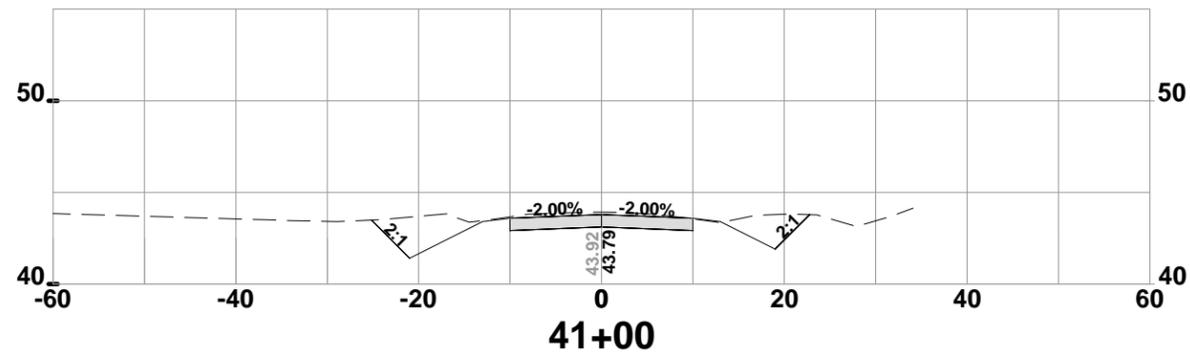
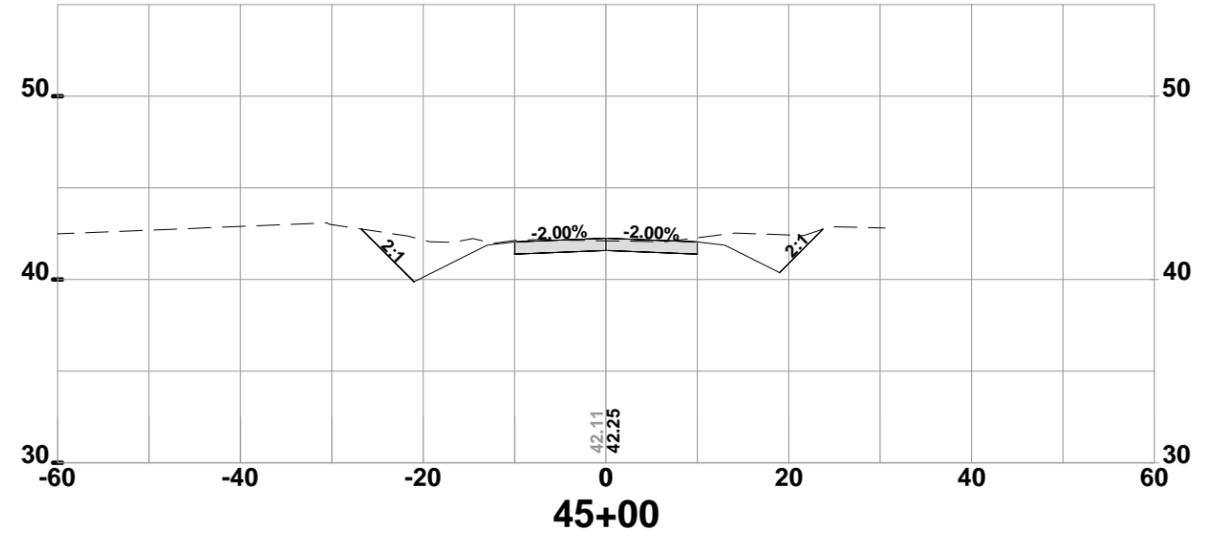
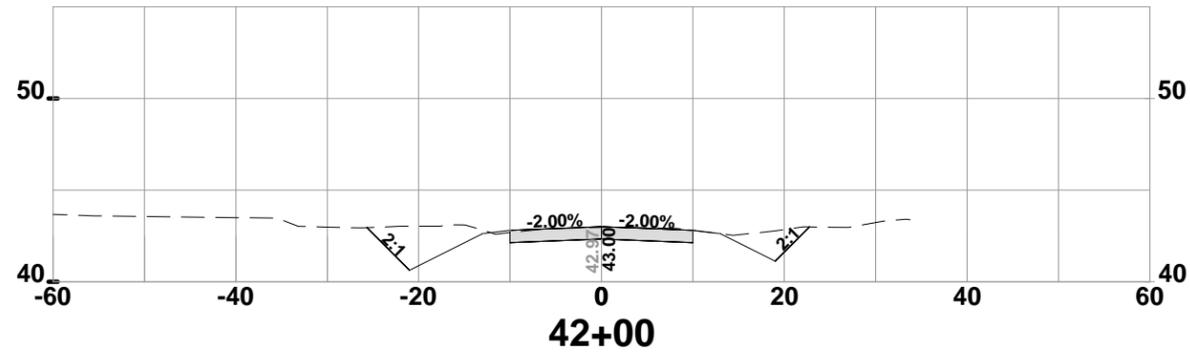
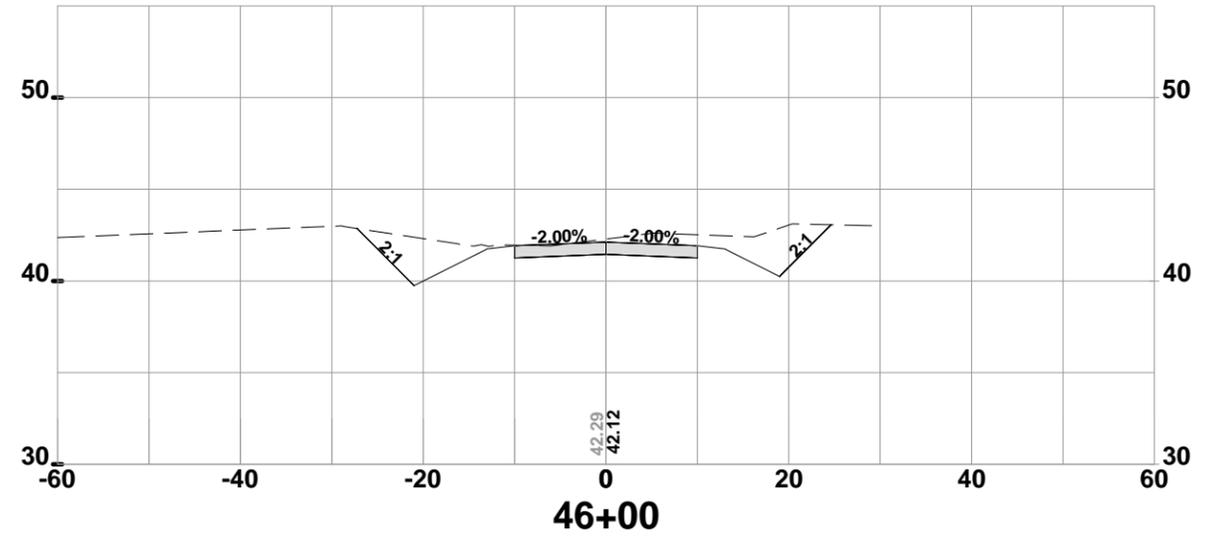
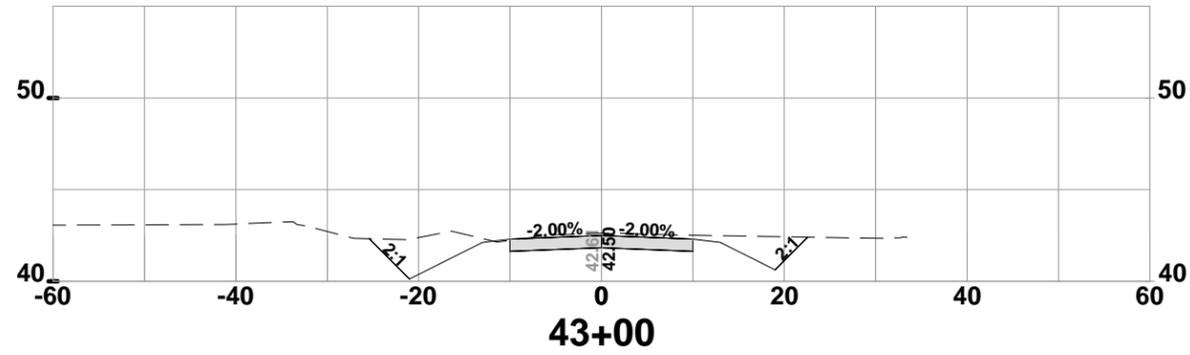
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BIBLE CAMP ROAD CROSS SECTIONS
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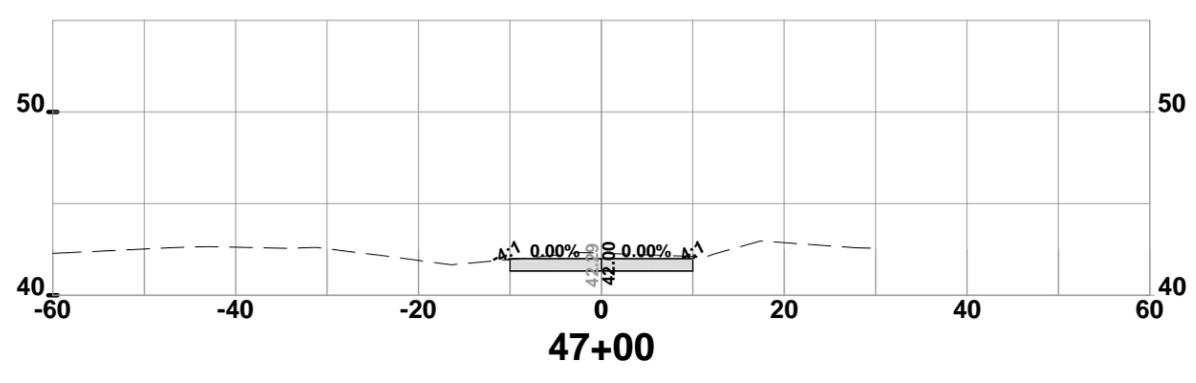
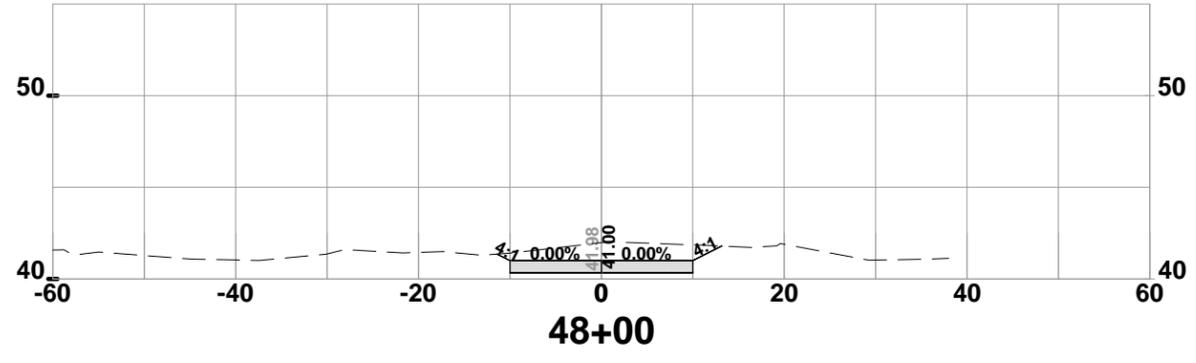
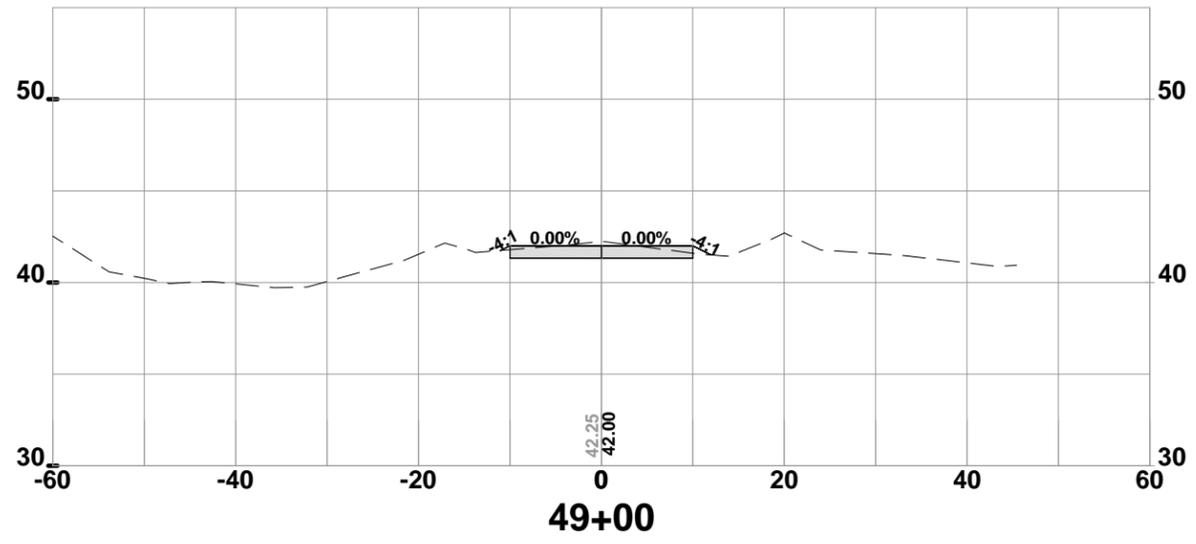
North Florida Professional Services, Inc.
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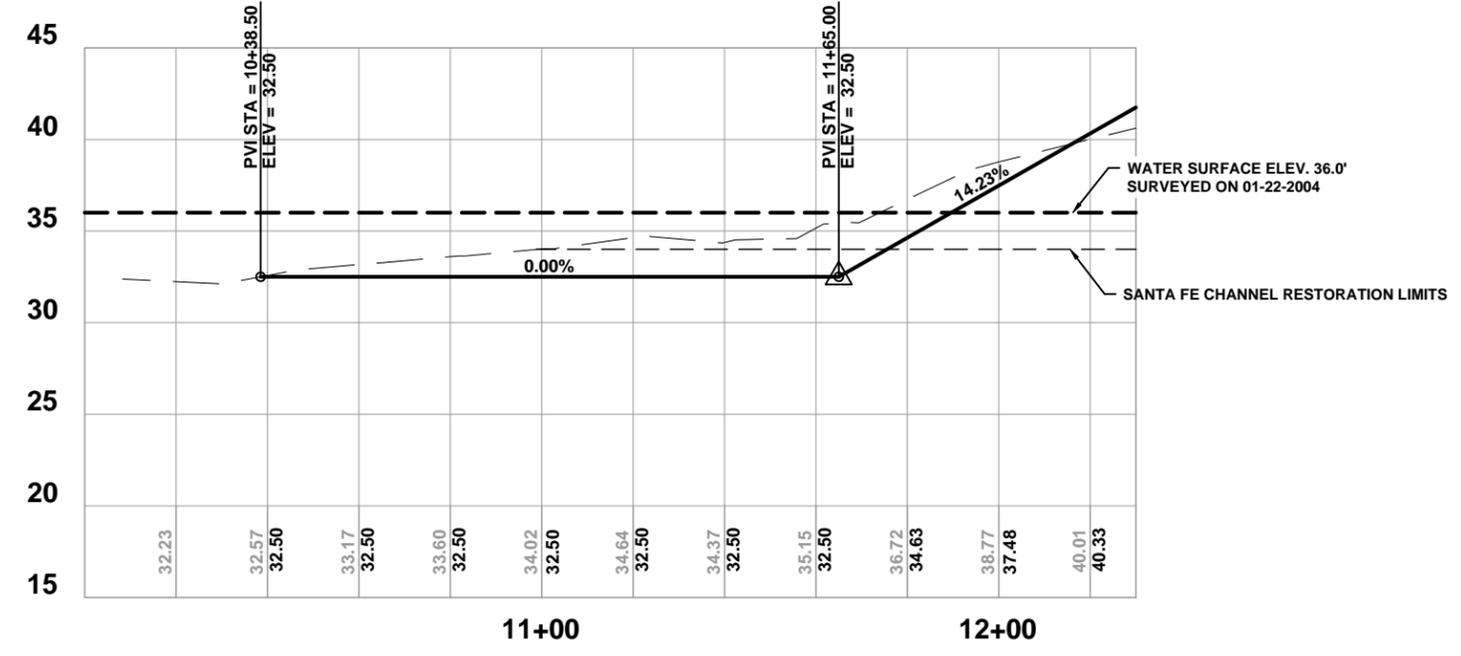
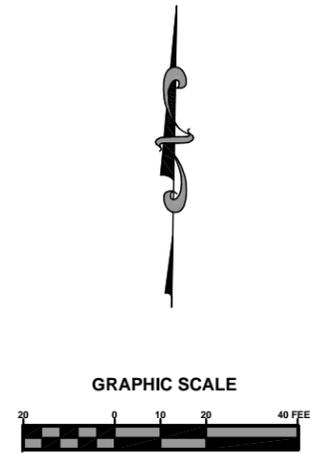
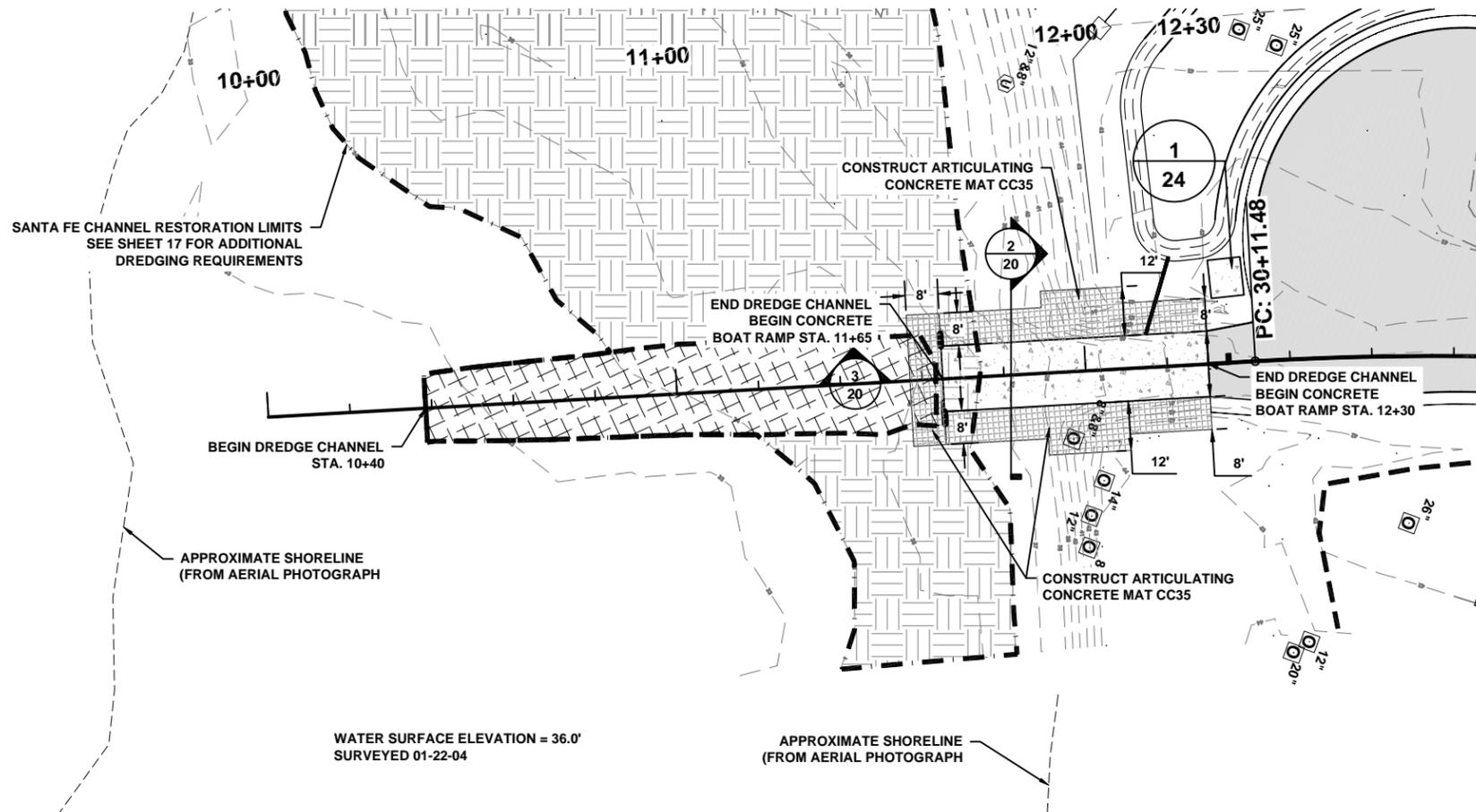


BIBLE CAMP ROAD CROSS SECTIONS
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 COLUMBIA COUNTY, FLORIDA

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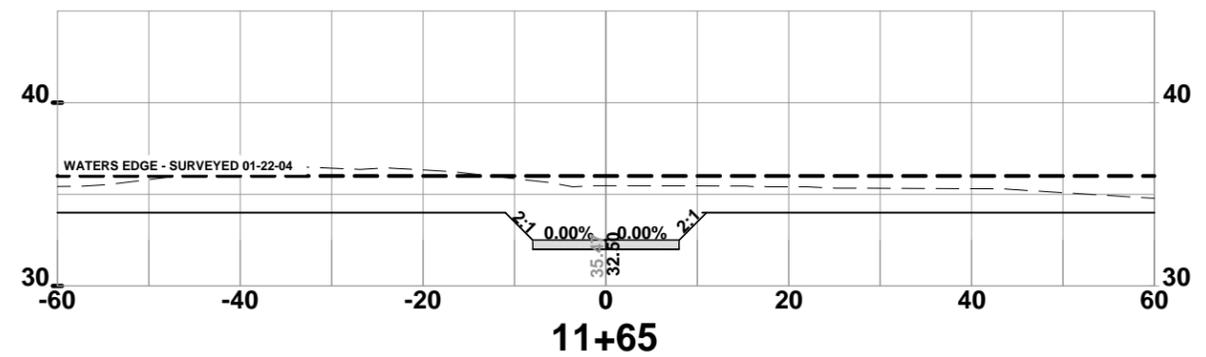
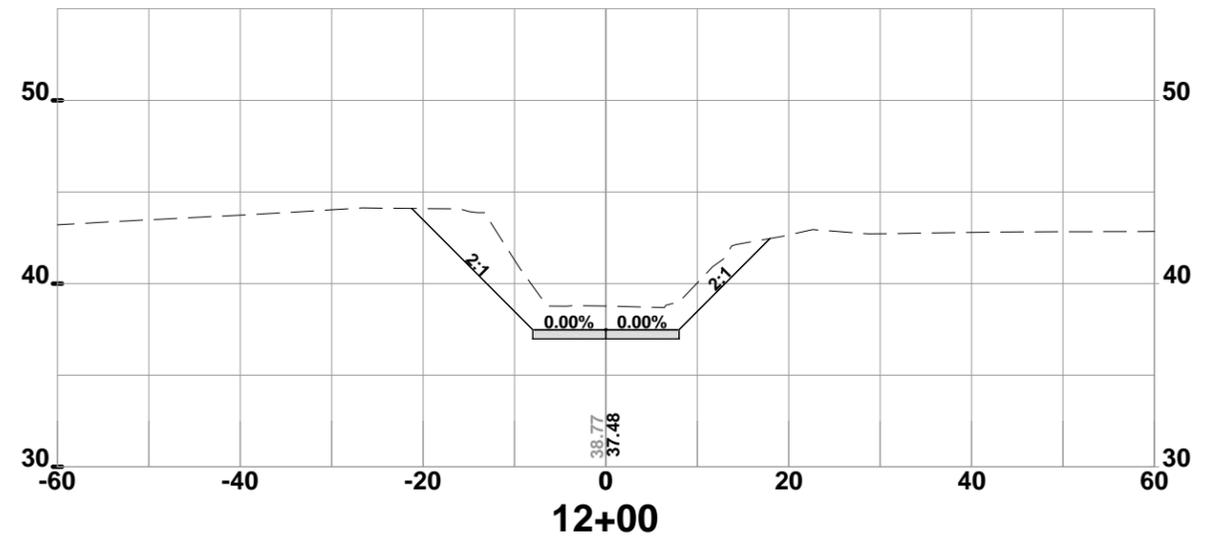
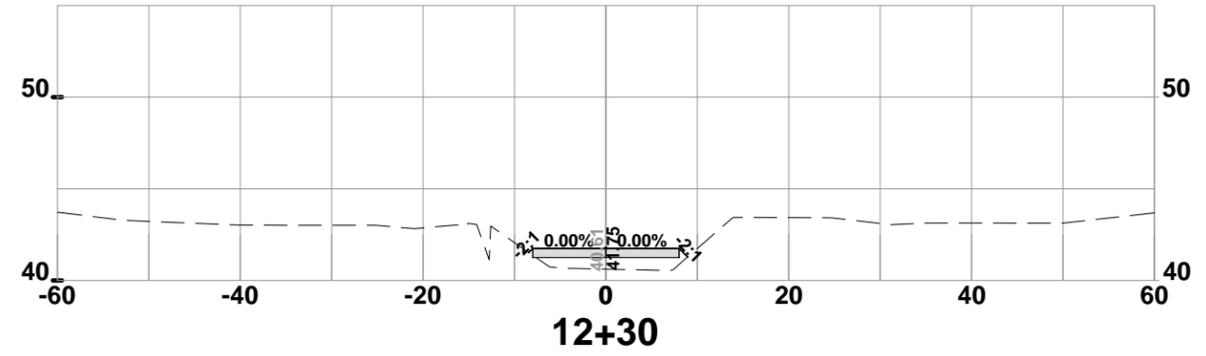
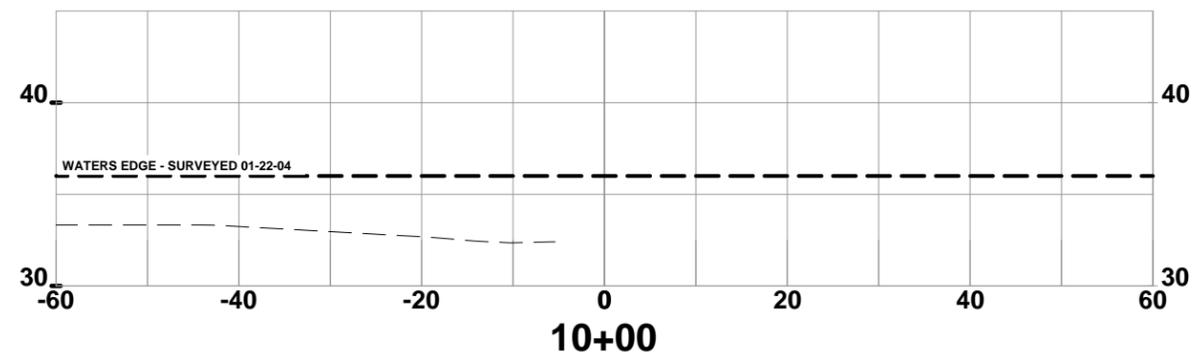
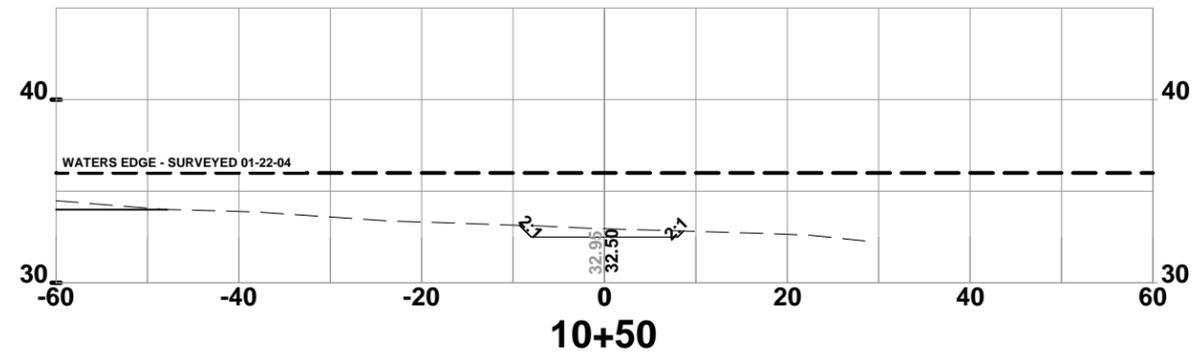
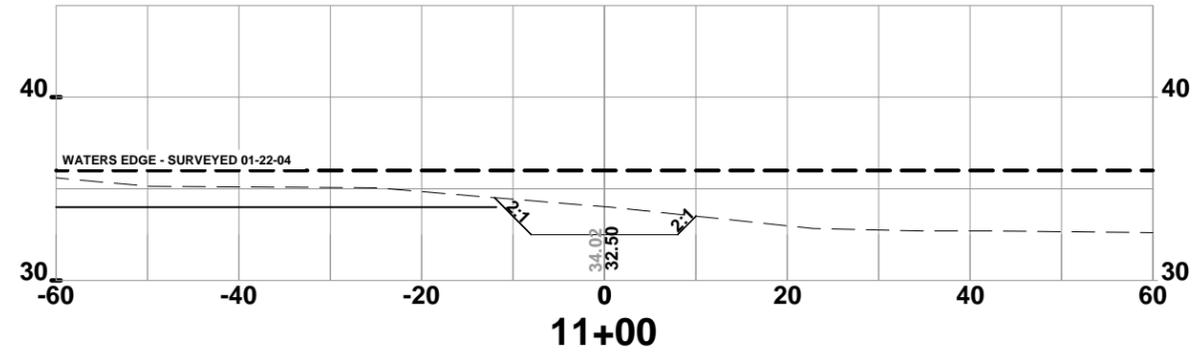
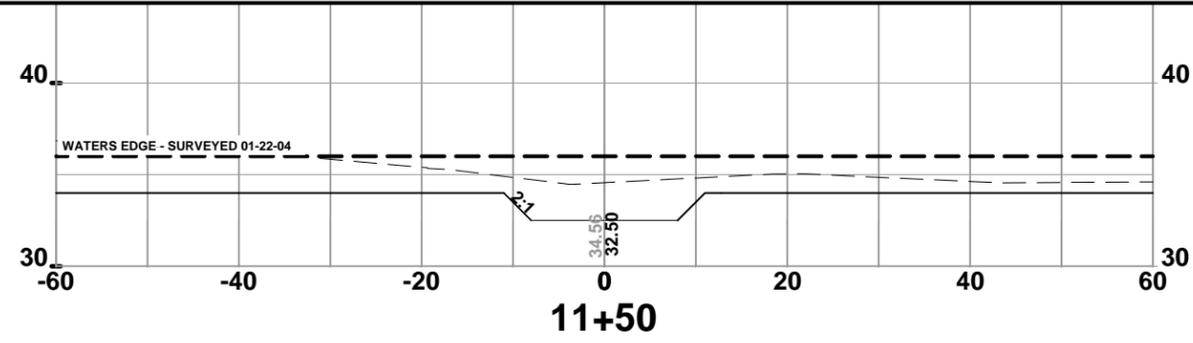


BOAT RAMP PLAN & PROFILE
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA

REVISIONS:

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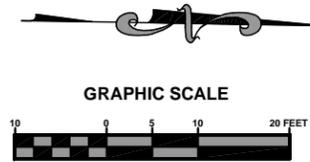
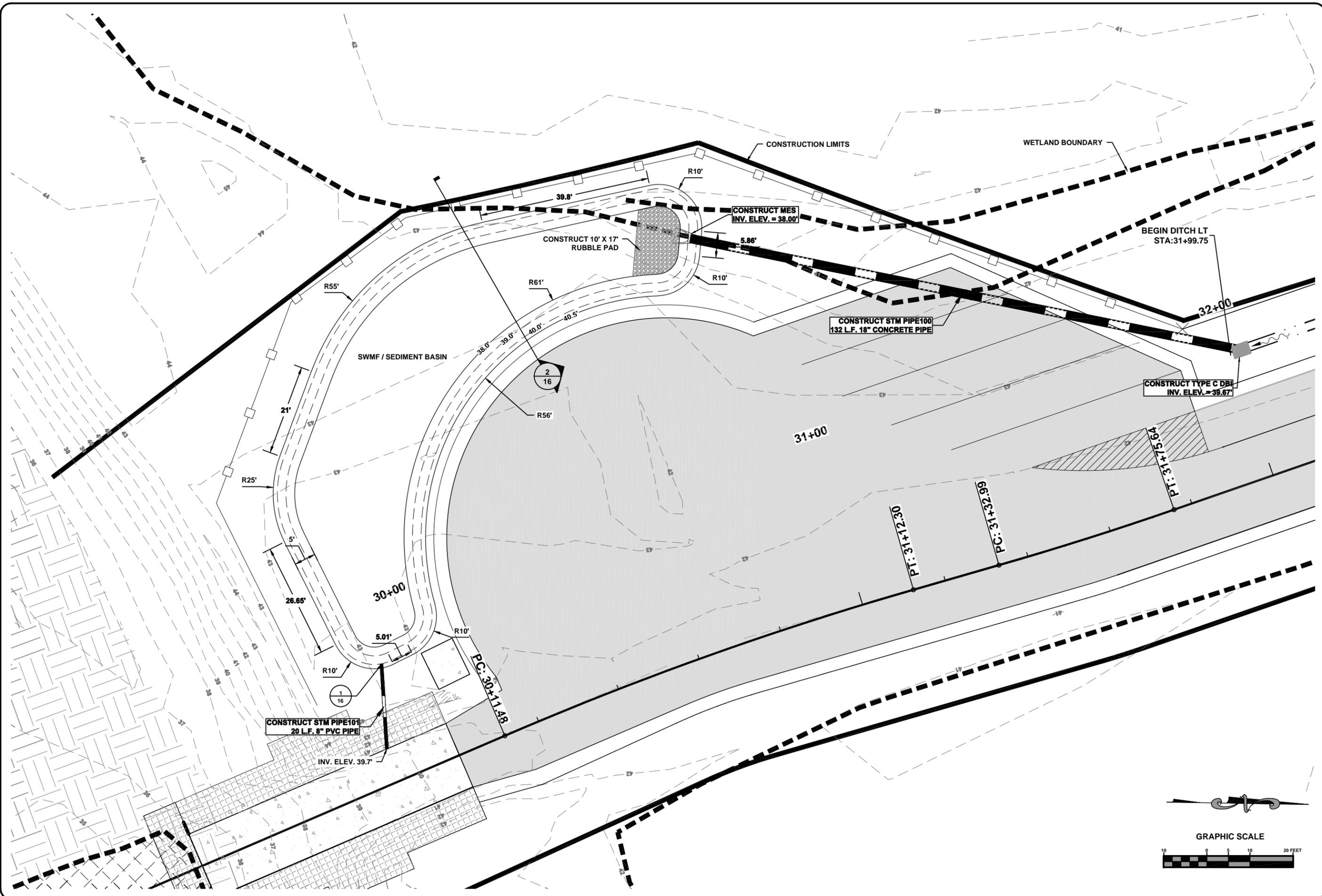
BOAT RAMP CROSS SECTIONS
 BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA

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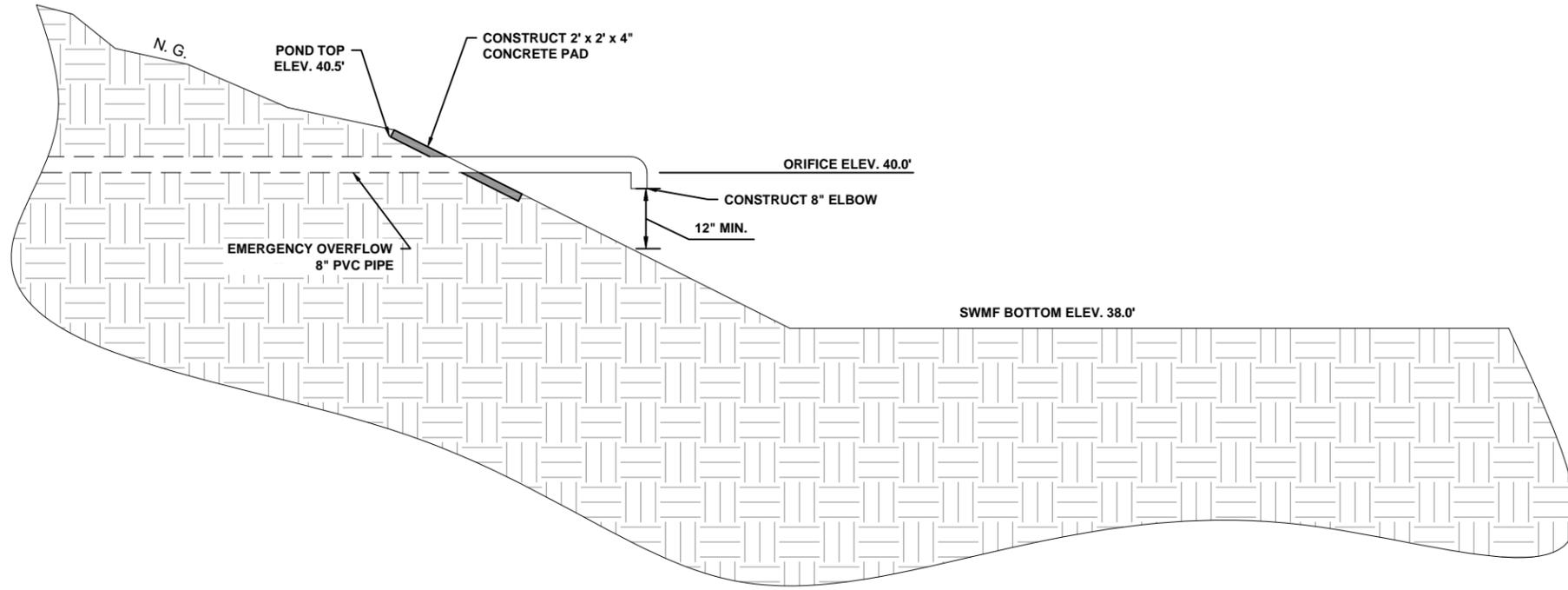
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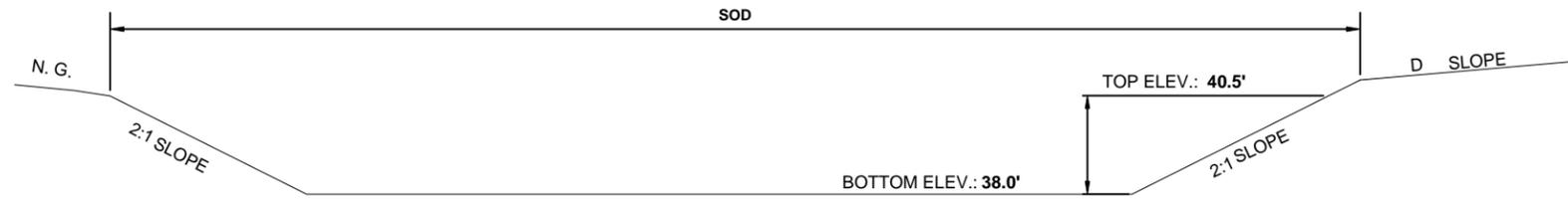
SEDIMENT BASIN FACILITY PLAN
 BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA

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1 **EMERGENCY OVERFLOW DETAIL**
16 **SCALE: N.T.S.**



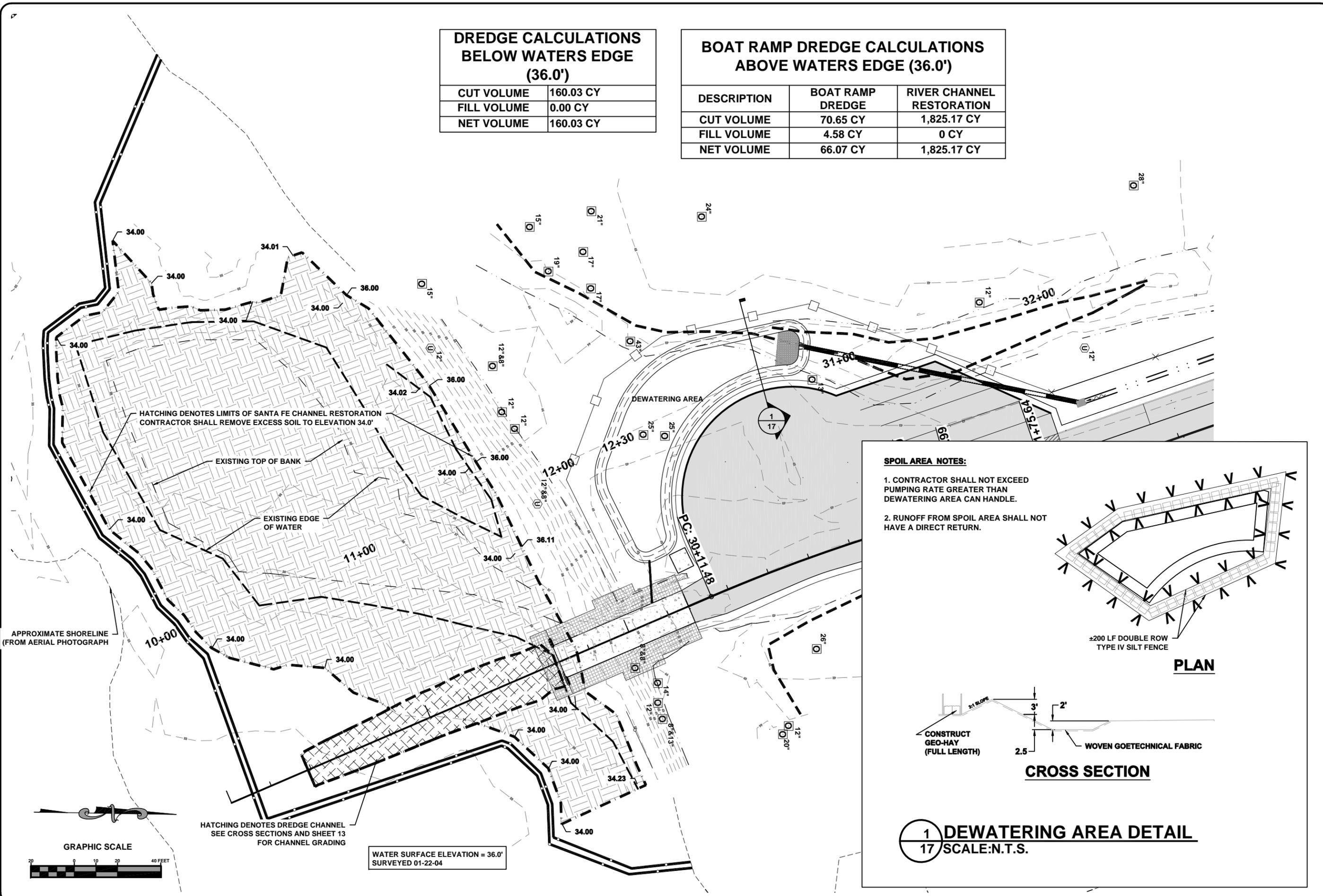
2 **SEDIMENT BASIN FACILITY DETAIL**
16 **SCALE: N.T.S.**



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 Date Created: February 25, 2014
 Date Plotted: February 25, 2014

DREDGE CALCULATIONS BELOW WATERS EDGE (36.0')	
CUT VOLUME	160.03 CY
FILL VOLUME	0.00 CY
NET VOLUME	160.03 CY

BOAT RAMP DREDGE CALCULATIONS ABOVE WATERS EDGE (36.0')		
DESCRIPTION	BOAT RAMP DREDGE	RIVER CHANNEL RESTORATION
CUT VOLUME	70.65 CY	1,825.17 CY
FILL VOLUME	4.58 CY	0 CY
NET VOLUME	66.07 CY	1,825.17 CY



SPOIL AREA NOTES:

- CONTRACTOR SHALL NOT EXCEED PUMPING RATE GREATER THAN DEWATERING AREA CAN HANDLE.
- RUNOFF FROM SPOIL AREA SHALL NOT HAVE A DIRECT RETURN.

PLAN

±200 LF DOUBLE ROW TYPE IV SILT FENCE

CROSS SECTION

CONSTRUCT GEO-HAY (FULL LENGTH)

WOVEN GEOTECHNICAL FABRIC

1 DEWATERING AREA DETAIL
17 SCALE:N.T.S.

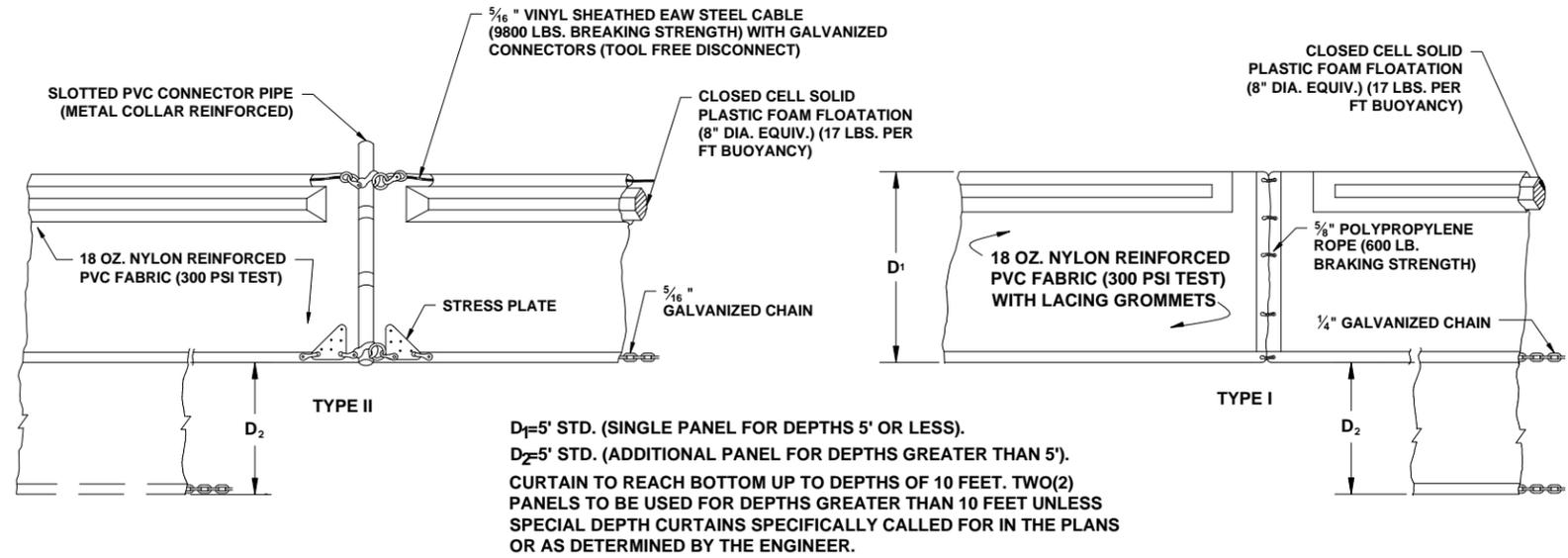
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DREDGE PLAN
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
COLUMBIA COUNTY, FLORIDA

REVISIONS:
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EROSION CONTROL NOTES

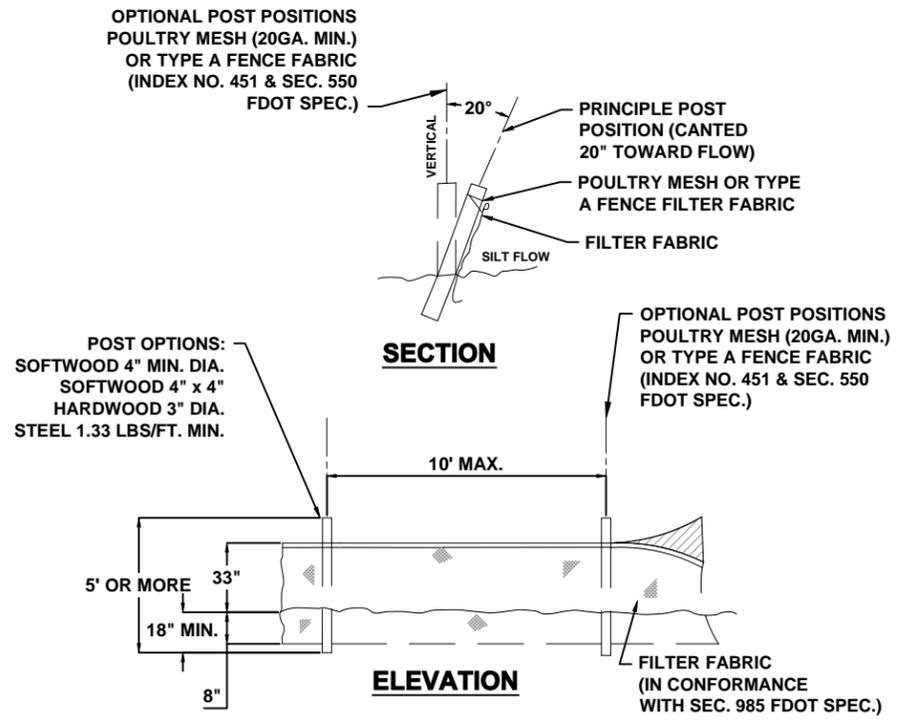
- THIS EROSION AND SEDIMENTATION CONTROL PLAN COMPLIES WITH THE REQUIREMENTS OF THE "FLORIDA DEVELOPMENT MANUAL" AND THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
- THE CONTRACTOR SHALL ADHERE TO COLUMBIA COUNTY, SRWMD, AND OTHER GOVERNING AUTHORITIES FOR EROSION AND SEDIMENT CONTROL REGULATIONS. IF THE CONTRACTOR NEEDS TO CHANGE THIS PLAN TO MORE EFFECTIVELY CONTROL EROSION AND SEDIMENTATION, THE CONTRACTOR SHALL USE BMP'S FROM THE "FLORIDA EROSION AND SEDIMENT CONTROL INSPECTOR'S MANUAL".
- THE CONTRACTOR SHALL ADJUST AND REVISE THIS PLAN TO MEET ACTUAL FIELD CONDITIONS. ANY REVISIONS SHALL BE APPROVED BY THE REVIEWING AGENCIES.
- SEDIMENT AND EROSION CONTROL FACILITIES, STORM DRAINAGE FACILITIES AND DETENTION BASINS SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPLACED AS NECESSARY.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
- ALL OPEN DRAINAGE SWALES SHALL BE GRASSED AND RIPRAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
- SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS.
- CONTRACTOR SHALL PLACE A DOUBLE ROW OF SILT FENCE IN AREAS WHERE RUNOFF FROM DISTURBED AREAS MAY ENTER WETLANDS.
- DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
- ALL GRADED AREAS SHALL BE STABILIZED IMMEDIATELY WITH A TEMPORARY FAST-GROWING COVER AND/OR MULCH.
- A PAD OF RUBBLE RIP RAP SHALL BE PLACED AT THE BOTTOM OF ALL COLLECTION FLUMES AND COLLECTION PIPE OUTLETS. GRANITE OR LIMESTONE RIPRAP IS REQUIRED, NO BROKEN CONCRETE WILL BE ACCEPTED.
- ALL SIDE SLOPES STEEPER THAN 3:1 SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF HAY BALES OR SODDING.
- ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN SEVEN DAYS.
- ALL WASTE GENERATED ON THE PROJECT SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY CONTRACTOR.
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS.
- EXCESS DIRT SHALL BE REMOVED DAILY.
- THIS PROJECT SHALL COMPLY WITH ALL WATER QUALITY STANDARDS. PERMIT REQUIRED FROM SRWMD HAS BEEN OBTAINED.
- QUALIFIED PERSONNEL SHALL INSPECT THE AREA USED FOR STORAGE OF STOCKPILES, THE SILT FENCE AND STRAW BALES, THE LOCATION WHERE VEHICLES ENTER OR EXIT THE SITE, AND THE DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM OF 0.25 INCHES OR GREATER.
- SITES THAT HAVE BEEN FINALLY STABILIZED WITH SOD OR GRASSING SHALL BE INSPECTED AT LEAST ONCE EVERY WEEK.



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

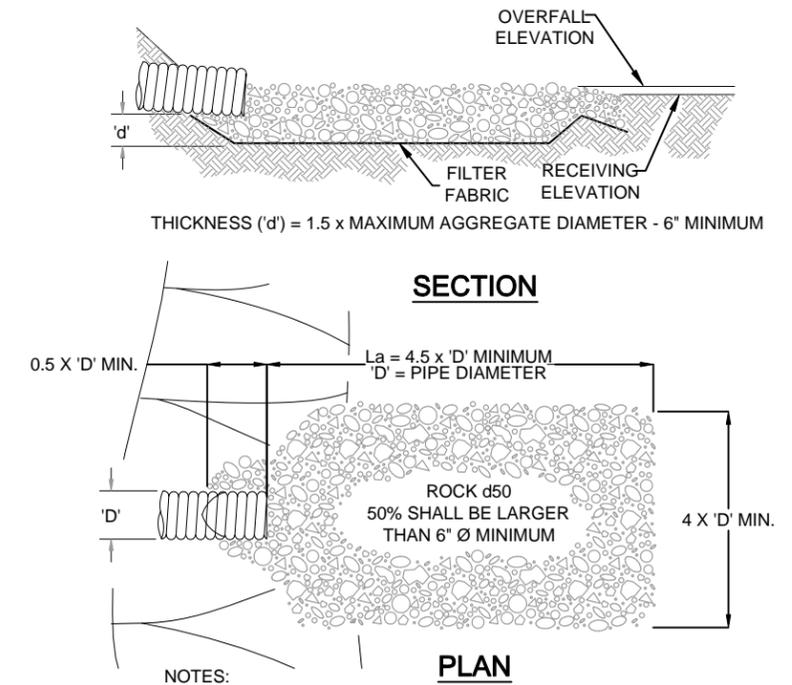
1 FLOATING TURBIDITY BARRIER

SCALE: N.T.S.



2 TYPE IV SILT FENCE

SCALE: N.T.S.



3 ENERGY DISSIPATER DETAIL

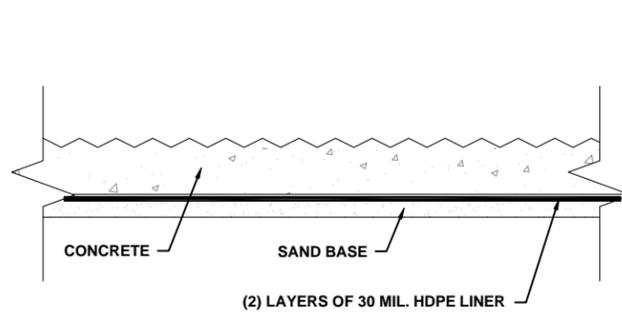
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EROSION CONTROL NOTES & DETAILS
 COLUMBIA COUNTY, FLORIDA

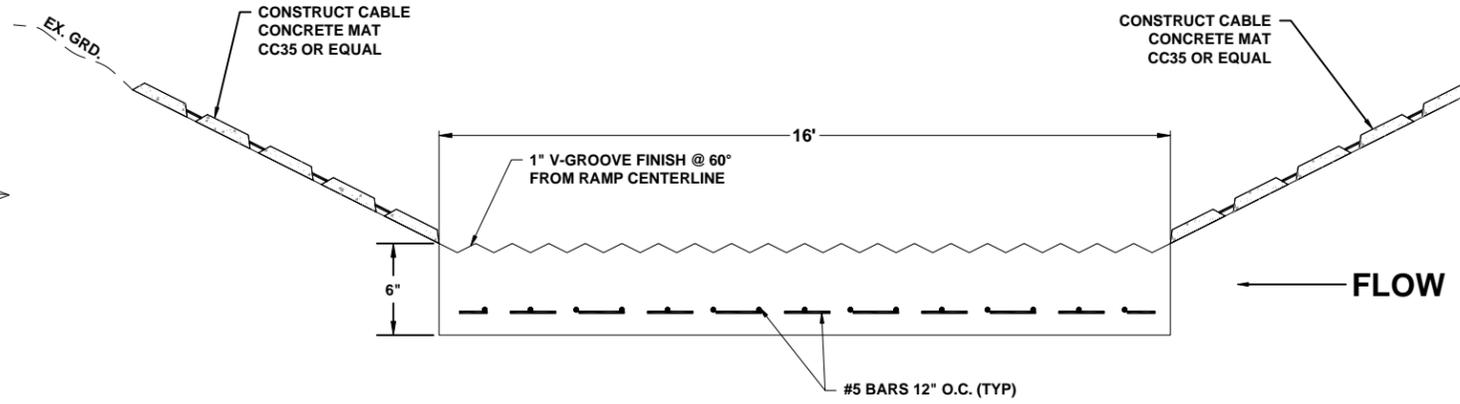
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NOTES:

1. CONSTRUCT SAND CASTING AREA AT THE SAME SLOPE AS PROPOSED RAMP DESIGN.
2. PLACE 2 LAYERS OF 30 MIL. HDPE LINER OVER SAND CASTING AREA TO PROVIDE SMOOTH SURFACE TO PUSH SECTION INTO PLACE.

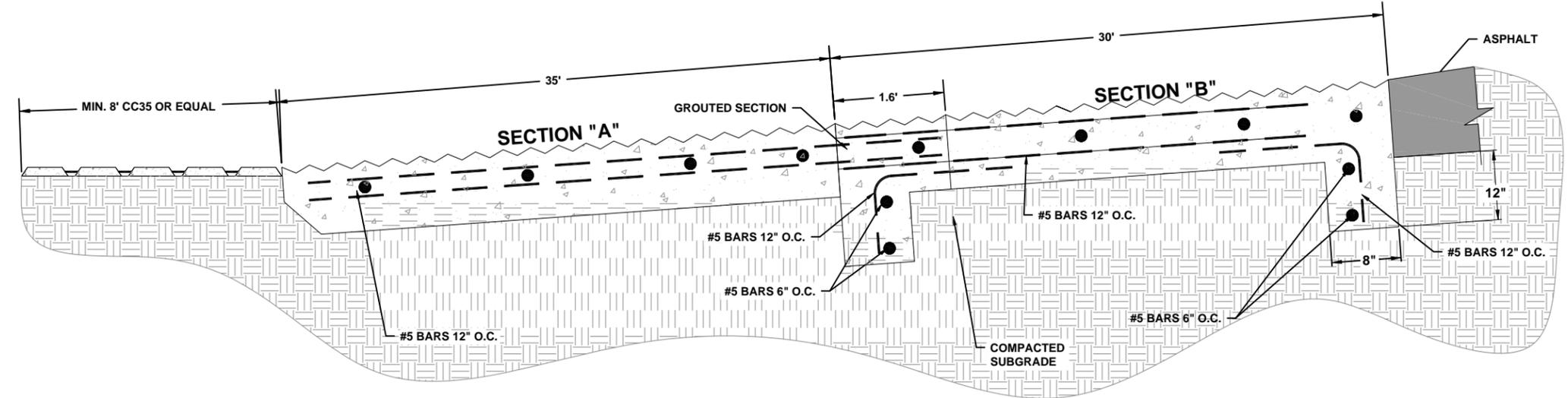
1 SAND CASTING AREA DETAIL
SCALE: N.T.S.



2 BOAT RAMP TYPICAL SECTION
SCALE: N.T.S.

CONSTRUCTION SEQUENCE

1. GRADE AREA WHERE RAMP IS TO BE CAST ON SAME GRADE AS RAMP IS DESIGNED. USE CLEAN SAND FOR TEMPORARY GRADING OF RAMP CASTING AREA.
2. PLACE 2 LAYERS OF 30 MIL HDPE OVER SAND CASTING AREA.
3. FORM SECTION "A" ON TOP OF HDPE. BEVEL THE BOTTOM OF THE WATERWARD EDGE TO EASE PUSHING INTO PLACE. HOOKS OR EYES MAY ALSO BE INSTALLED IN SIDES TO EASE PUSHING INTO PLACE. REBAR SHOULD BE SET SO THAT AT LEAST 3 FEET EXTENDS INTO NEXT SLAB TO PROVIDE A CONTINUOUS STEEL TIE.
4. GRADE UNDERWATER PORTION OF RAMP AS DESIGNED TO PROPER GRADE.
5. PROVIDE A STABLE BASE FOR UNDERWATER PORTION OF RAMP. SMALL STONE SHALL BE USED TO FILL SECTIONS. COMPACT UNDERWATER PORTION AS NECESSARY TO ACHIEVE SUITABLE DENSITY.
6. POUR 3,000 PSI CONCRETE TO FORM RAMP SECTION "A". THE TOP DRIVING SURFACE OF THE RAMP SHALL BE GROOVED USING THE TOOL SHOWN IN THE DETAILS OF THE PLAN SET. A GROOVE DETAIL IS ALSO PROVIDED.
7. UPON CURING AND NECESSARY TESTING OF RAMP, LIFT LANDWARD END SLIGHTLY AND PUSH INTO PLACE USING BACKHOE OR BULLDOZER, AS REQUIRED. TAKE CARE AS NOT TO EXCESSIVELY BEND THE REBAR PROTRUDING FROM SECTION "A".
8. REPEAT THE NECESSARY STEPS TO CONSTRUCT AND INSTALL THE PORTION OF THE RAMP WHICH IS LANDWARD OF THE WATERS EDGE. (SECTION "B")
9. TIE THE TWO SLABS BY GROUTING IN THE 3 FOOT PORTION OF REBAR IN THE WATERWARD HALF TO THE LANDWARD HALF OF THE SLABS.



3 BOAT RAMP SECTION
SCALE: N.T.S.

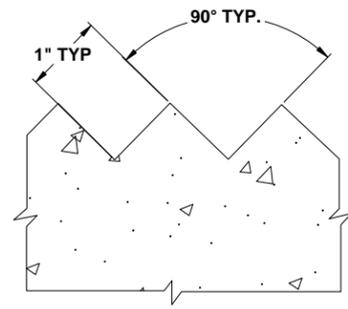
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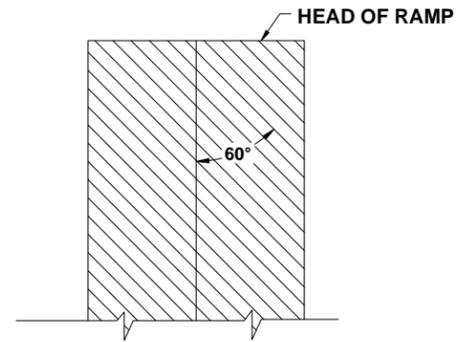
BOAT RAMP DETAILS
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
COLUMBIA COUNTY, FLORIDA

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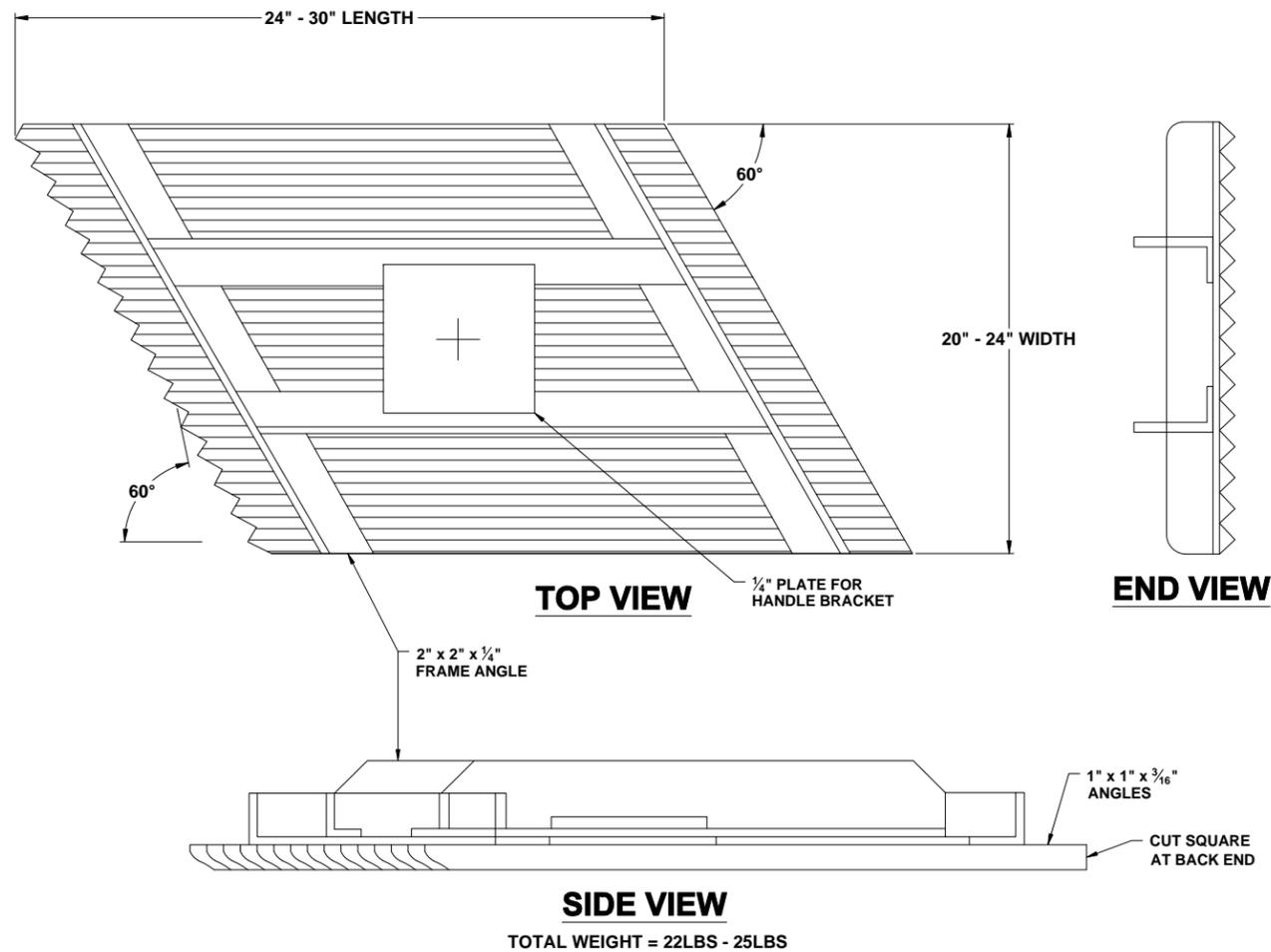
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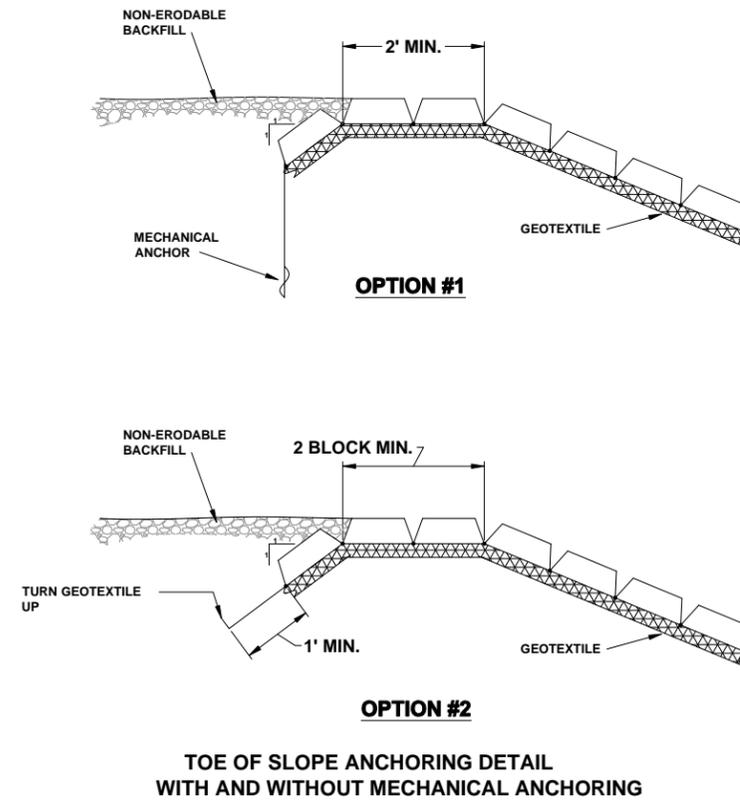
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21 SCALE: N.T.S.



2 V-GROOVE ALIGNMENT DETAIL
21 SCALE: N.T.S.



3 V-GROOVE FINISH TOOL DETAIL
21 SCALE: N.T.S.



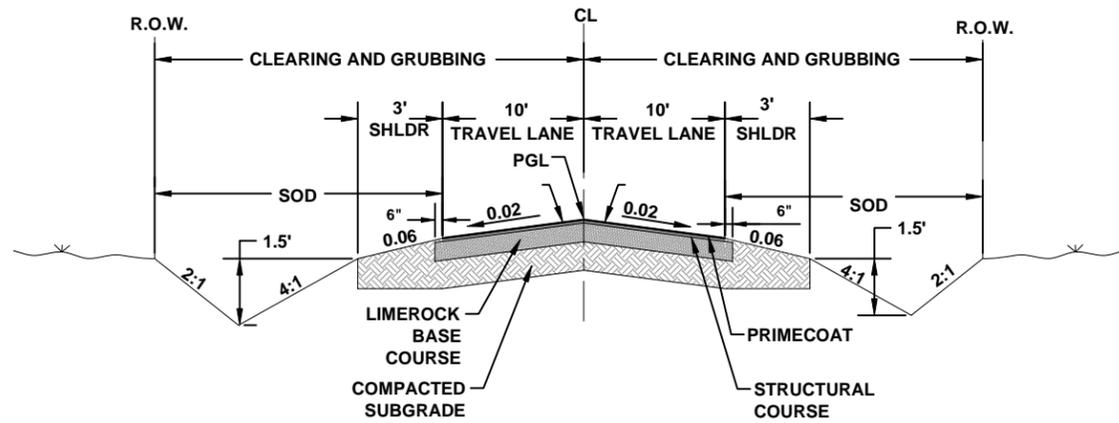
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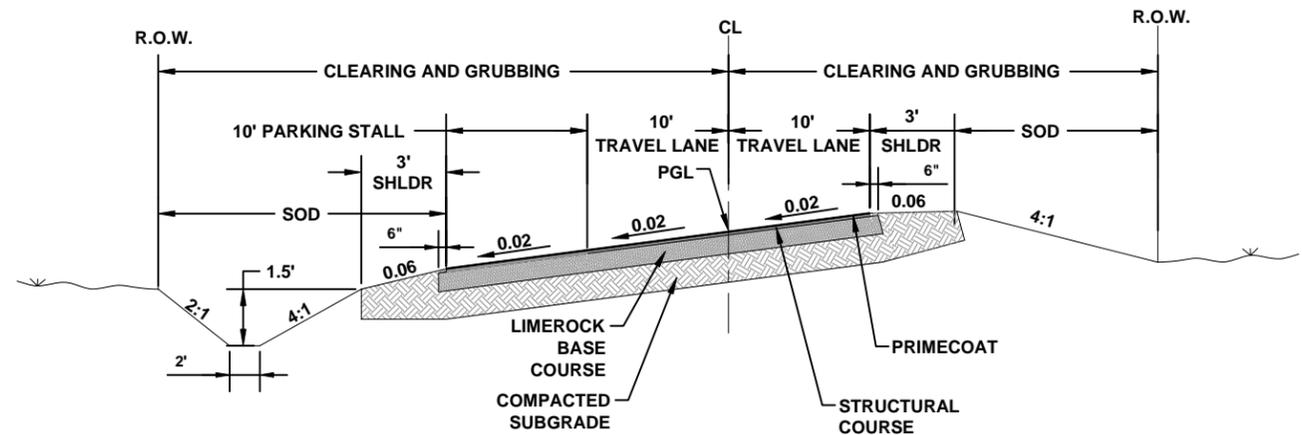
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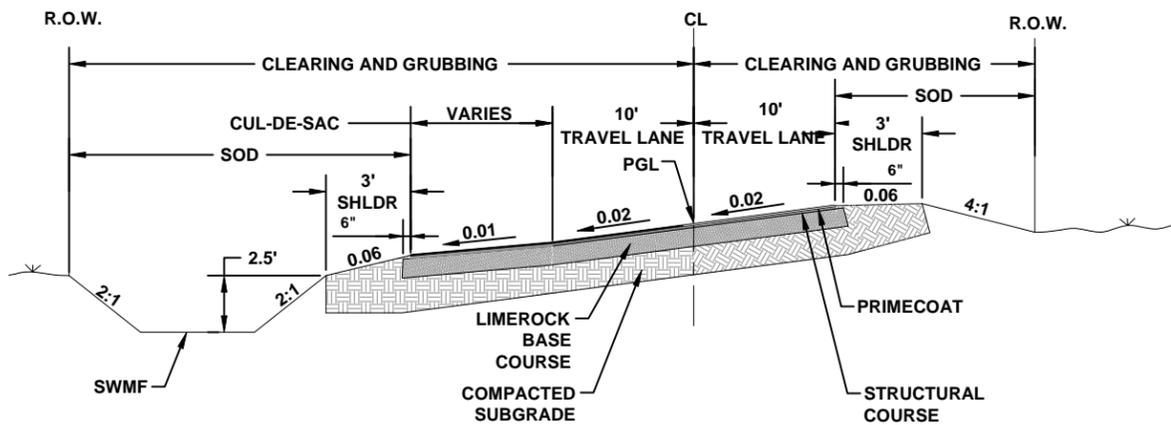
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 0.1 GAL./S.Y. PRIME COAT
 6" LIMEROCK BASE COURSE
 12" STABILIZED SUBGRADE
 MINIMUM L.B.R. 40
 DESIGN SPEED = 5 M.P.H.

1 TYPICAL SECTION STA. 33+50 TO 49+20
 22 SCALE: N.T.S.



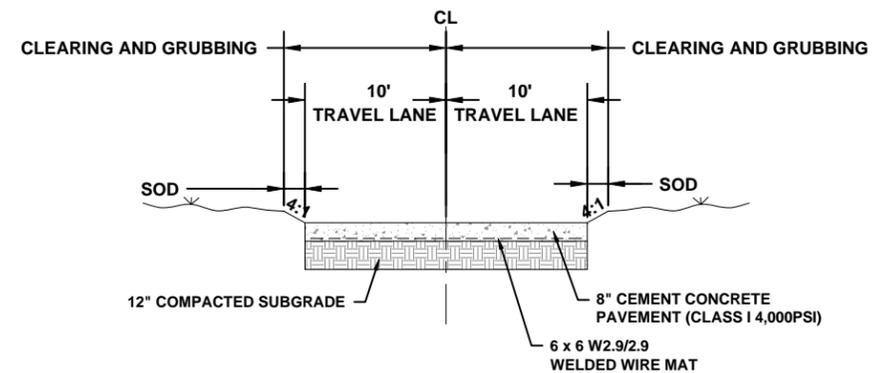
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 MINIMUM L.B.R. 40
 DESIGN SPEED = 5 M.P.H.

2 TYPICAL SECTION STA. 31+87 TO 33+50
 22 SCALE: N.T.S.



ROADWAY DESIGN REQUIREMENTS
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 0.1 GAL./S.Y. PRIME COAT
 6" LIMEROCK BASE COURSE
 12" STABILIZED SUBGRADE
 MINIMUM L.B.R. 40
 DESIGN SPEED = 5 M.P.H.

3 TYPICAL SECTION STA. 30+00 TO STA. 31+87
 22 SCALE: N.T.S.



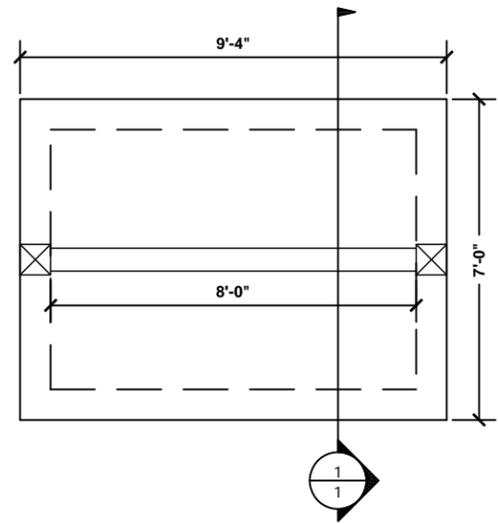
ROADWAY DESIGN REQUIREMENTS
 8" CEMENT CONCRETE PAVEMENT CLASS 1 - 4,000 PSI
 1" DIA. DOWEL BARS, 18" IN LENGTH @ 12" O.C.
 TRANSVERSE JOINT SPACING SHALL BE 10'
 LONGITUDINAL LANE -TIE JOINT ON CENTER OF ROADWAY
 CONSTRUCT JOINTS PER FDOT INDEX 305
 12" STABILIZED SUBGRADE
 MINIMUM L.B.R. 40
 DESIGN SPEED = 5 M.P.H.

4 LOW WATER CROSSING STA. 46+77.09 TO STA. 49+17.07
 22 SCALE: N.T.S.

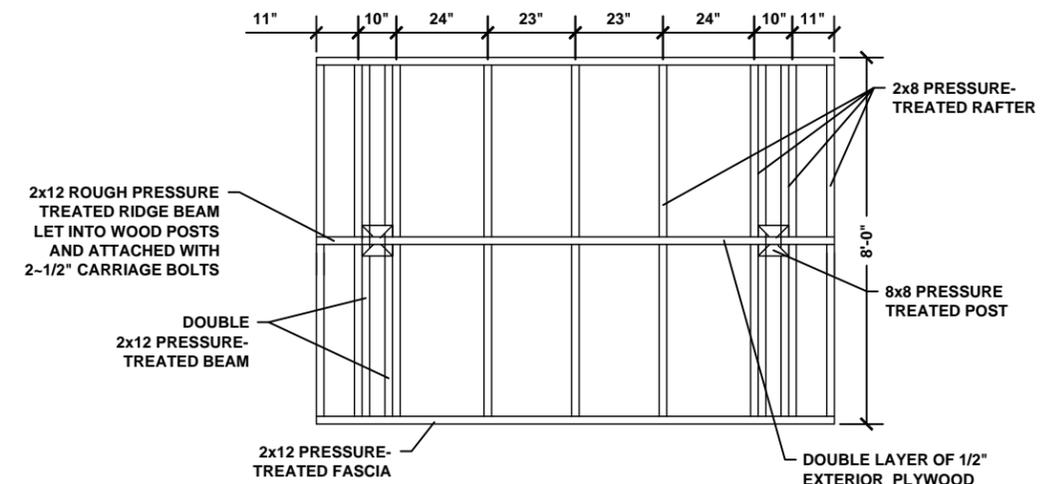


REVISIONS:

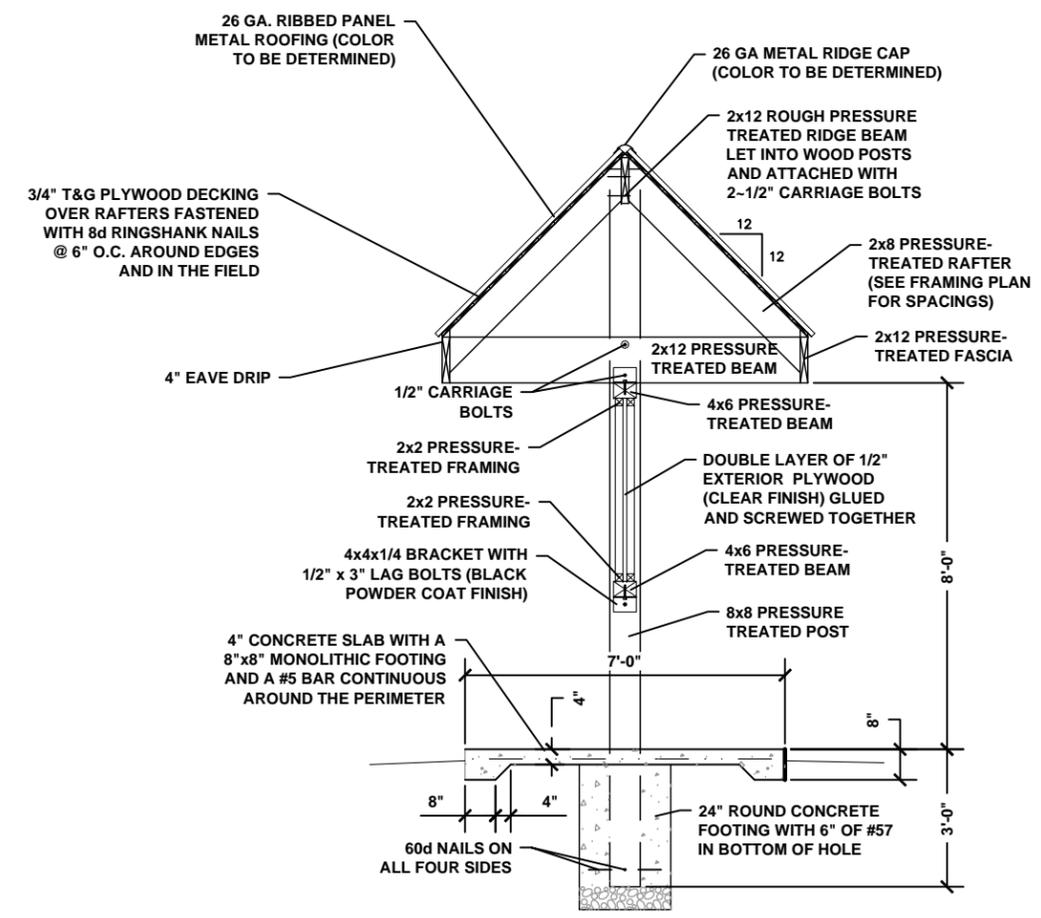
JOB NUMBER:	L110102CCB
DESIGNED BY:	CM
DRAFTED BY:	CM
CHECKED BY:	GB
DATE:	10/2011
SHEET NO.:	22



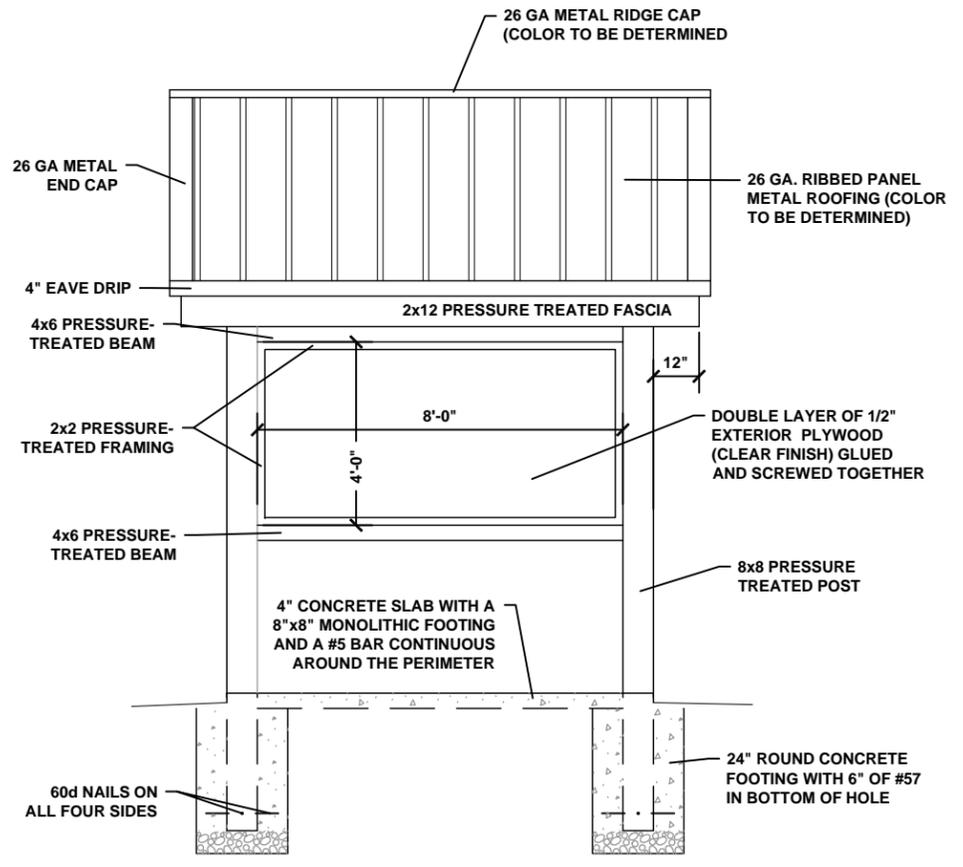
FOUNDATION PLAN



ROOF FRAMING PLAN



BUILDING SECTION



SIDE ELEVATION

1 BOAT RAMP KIOSK
24 SCALE: N.T.S.

North Florida Professional Services, Inc.
 P.O. BOX 3823
 Tallahassee, FL 32318
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 Fax. 386-752-4674
 Eng. Lic. 29011

EDUCATIONAL KIOSK
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
COLUMBIA COUNTY, FLORIDA

REVISIONS:

JOB NUMBER:	L110822CCB
DESIGNED BY:	PB
DRAFTED BY:	PB
CHECKED BY:	PB
DATE:	10/2011
SIGNATURE & SEAL:	
SHEET NO.:	24



REVISIONS:

DESIGNED BY:	CM	CM	GB
DRAFTED BY:	CM	CM	GB
CHECKED BY:	CM	CM	GB
DATE:	10/2011		
SHEET NO.:	25		

INGRESS/EGRESS & SPOIL AREA LOCATION MAP
BIBLE CAMP ROAD & BOAT RAMP IMPROVEMENTS
 COLUMBIA COUNTY, FLORIDA



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