

DEVELOPMENT PLANS FOR PEACE RIVER 6

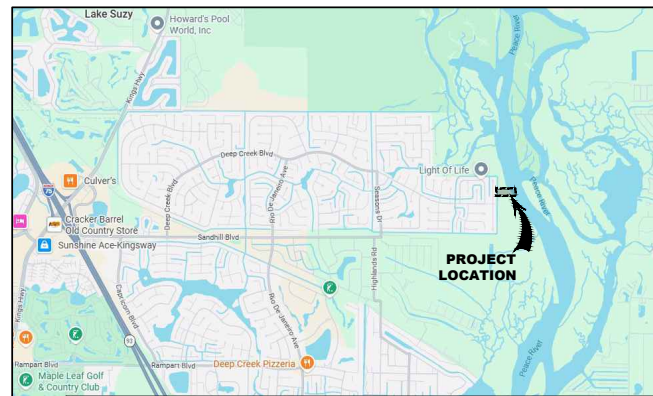
SUMMARY:

PROPOSED ON THIS 1.94 AC PROJECT BOUNDARY ARE TWO SHELL ROADWAYS AND STORMWATER FACILITIES.

SITE DEVELOPMENT DATA:

- | | |
|-----------------|---|
| 1. LAND USE | ROADWAY AND STORMWATER |
| 2. LAND AREA | 1.94 ACRES (PROJECT BOUNDARY) |
| 3. ZONING | RIGHT OF WAY |
| 4. FEMA | ZONE "AE (EL10)" (COMMUNITY PANEL No. 12015C 0088G) EFF 12-15-2022 |
| 5. DATUM | ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE DERIVED FROM NATIONAL GEODETIC SURVEY (NGS) BENCHMARK DESIGNATION "LB7832", PUBLISHED ELEVATION = 7.66 FEET (NAVD88). |
| 6. SITE ADDRESS | DEEP CREEK BLVD AND SEMINOLE RD, PUNTA GORDA, FL 33983 |

SECTION 02 AND 03, TOWNSHIP 40 SOUTH, RANGE 23 EAST
PUNTA GORDA, FLORIDA



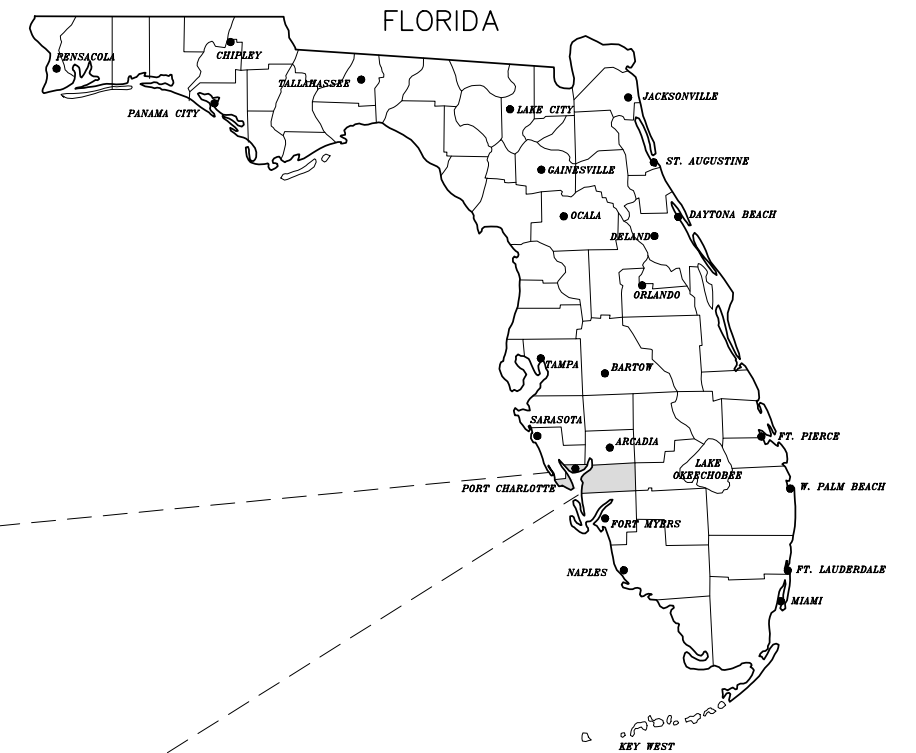
VICINITY MAP



UTILITY NOTIFICATION

UTILITY LOCATIONS DEPICTED WITHIN THIS CONSTRUCTION PLAN SET HAVE BEEN COMPILED FROM FIELD SURVEYS AND DOCUMENTS SUPPLIED BY THE VARIOUS UTILITY COMPANIES. THE ENGINEER MAKES NO CLAIM TO THE ACCURACY OF THE UTILITY LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AND IS RESPONSIBLE FOR VERIFYING THE DEPTHS AND FIELD LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. ACTUAL UTILITY LOCATIONS AND DEPTHS MAY VARY FROM THOSE DEPICTED WITHIN THIS CONSTRUCTION PLAN SET. PROTECTION OF ALL UTILITIES WITHIN THE AREA OF CONSTRUCTION AND ALL COSTS TO REMEDY DAMAGES TO EXISTING UTILITIES AND DISTURBED AREAS SHALL BE BORNE BY THE CONTRACTOR.

SITE COVERAGE DATA			
IMPERVIOUS/PERVIOUS AREAS	SQUARE FEET	ACREAGE	PERCENT
PROJECT AREA	84,625	1.943	100%
TOTAL IMPERVIOUS AREA	76,088	1.747	89.9%
PROPOSED PAVEMENT, CONC WALKS, ETC	41,007	0.941	48.5%
PROPOSED DETENTION POND	35,081	0.805	41.5%
TOTAL PERVIOUS AREA	8,537	0.196	10.1%
TOTAL			100%



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OWNER:

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PALM BEACH, FL 33480
PHONE: 561-833-5500

ENGINEER:

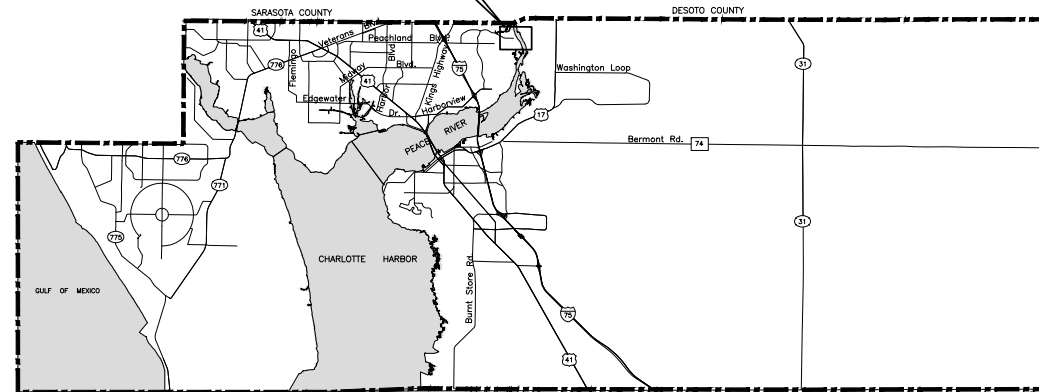
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PUNTA GORDA, FLORIDA 33950
PHONE: 941-637-9655

SURVEYOR:

ATWELL
4161 TAMiami TRAIL, BLDG 5 UNIT 501
PORT CHARLOTTE, FL 33952
PHONE: (941) 625-1165

NOTES:

- ALL EASEMENTS, PER RECORD PLAT, ARE SHOWN.
- SLOPE EASEMENTS, IF REQUIRED, WILL BE OBTAINED BY THE OWNER.
- CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES.
- ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH O.S.H.A SAFETY STANDARDS, INCLUDING O.S.H.A. TRENCH SAFETY STANDARDS AND PROJECT DOCUMENTS (CONSTRUCTION PLANS AND SPECIFICATIONS).
- CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD OF ANY ERRORS OR DISCREPANCIES ON THE PLANS PRIOR TO CONSTRUCTION.
- MAINTENANCE OF TRAFFIC THROUGH WORK ZONES WILL CONFORM TO FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS.
- THERE ARE NO WETLANDS LOCATED IN THE PROJECT BOUNDARY



CHARLOTTE COUNTY MAP

Gary W. Bayne, P.E.
State of Florida, Professional Engineer
License No. 62474

This item has been digitally signed and sealed by:
Gary W. Bayne, P.E.
on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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JOB NUMBER : 24-0703

1.03 SUBMITTALS

- A. THE CONTRACTOR SHALL SUBMIT TWO COPIES OF TEST REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY AND CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THESE REPORTS SHALL INDICATE ALL TESTS PERFORMED AND SHALL INCLUDE A CERTIFICATION STATEMENT OF COMPLIANCE WITH THE PROJECT SPECIFICATIONS. TESTS SHALL BE PERFORMED AS SPECIFIED UNDER THIS SECTION.
 - a. SUBMIT FOR REVIEW THE FOLLOWING:
 - 1. CONCRETE DESIGN MIX AND PROVING FLEXURAL STRENGTH (MODULUS OF RUPTURE) TESTS
 - 2. EXPANSION JOINT FILLER DATE
 - 3. JOINT SEALER DATE
 - 4. PROPOSED PAVING CONSTRUCTION PLAN WHICH SHALL SHOW THE CONCRETE PAVING JOINT TYPES AND LOCATIONS AND SHALL INCLUDE A STATEMENT OF PROPOSED SEQUENCE AND SCHEDULE OF PAVING OPERATIONS
 - 5. RESULTS OF CONCRETE TESTS
 - 6. RESULTS OF FIELD TESTS OF LBR AND COMPACTION OF STABILIZED SUBGRADE.

1.04 MATERIALS

- A. STABILIZED SUBGRADE: PROVIDE 12 INCH STABILIZED SUBGRADE (LBR 40 MIN) COMPACTED TO A MINIMUM DENSITY OF 98% AS DETERMINED BY AASHTO T-180
- B. CONCRETE: CONCRETE FOR CONCRETE PAVEMENT SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. A SLUMP RANGE BETWEEN 2 TO 4 INCHES AND A 28 DAY MODULES OR RUPTURE OF 650 PSI AS DETERMINED BY THE REQUIREMENTS OF PARAGRAPH TESTING SPECIFIED HEREAFTER.
- C. JOINT SEALER: JOINT SEALING SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, LATEST EDITION, SECTION 712
- D. PREFORMED EXPANSION JOINT FILLER: PREFORMED EXPANSION JOINT FILLER SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS, LATEST EDITION, SECTION 712

1.05 EXECUTION

- A. COMPLY WITH ACI STANDARD 316-74 AND SECTION 350, FDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED HEREIN.
- B. FINAL GRADING: ALL CONCRETE PAVEMENT SHALL HAVE A MAXIMUM DEVIATION OF 1/8 INCH (PLUS/ MINUS) FROM THE SPECIFIED SURFACE PLANE AND PLAN GRADES.
- C. THE SURFACE FINISH SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE. IN GENERAL THE TEXTURE IS OF A MEDIUM BROOM FINISH AFTER FLOATING.
- D. JOINTS
 - a. CONTRACTION JOINTS INDICATED ON DRAWINGS, OR AS REQUIRED SHALL BE PLACED PERPENDICULAR TO THE FINISH GRADIENT OF THE CONCRETE. JOINTS SHALL BE CUT TO A DEPTH OF ¼ OF THE SLAB THICKNESS BY CUTTING WITH AN EDGING TOOL HAVING A ¼ INCH RADIUS OR BY SAWING WITH A BLADE PRODUCING A CUT NOT LESS THAN 1/8 INCH IN WIDTH. SAW JOINTS WITHIN 4 TO 6 HOURS OF CONCRETE PLACEMENT.
 - b. EXPANSION JOINTS SHALL BE PLACED WHERE INDICATED ON DRAWINGS, OR AS REQUIRED, USING ¼ INCH THICK PREFORMED EXPANSION JOINT MATERIAL ANCHOR WITH APPROVED DEVICES TO PREVENT DISPLACEMENT DURING PLACEMENT AND FINISHING. EDGES SHALL BE ROUNDED WITH AN EDGING TOOL. JOINTS SHALL BE FULL DEPTH OF CONCRETE EXCEPT THAT TOP EDGES SHALL BE ¼ INCH BELOW THE FINISH CONCRETE SURFACE. EXPANSION JOINTS SHALL BE SEALED TO THE SURFACE BY FILLING WITH JOINT SEALING COMPOUND. JOINTS SHALL BE CLEAN AND DRY BEFORE SEALING COMPOUND IS PUT IN PLACE.
 - c. CONSTRUCTION JOINTS ARE TO BE USED AT CONTRACTION JOINT LOCATIONS TO STOP CONCRETE POURS.
 - D. CURING: CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE AND MECHANICAL INJURY FOR AT LEAST THREE DAYS AFTER PLACEMENT. A PIGMENTED LIQUID CURING MEMBRANE SHALL BE APPLIED IMMEDIATELY AFTER FINISHING; OPERATION AT THE RATE OF ONE GALLON TO NOT MORE THAN 200 SQUARE FEET.
 - B. CLEANING AND SEALING JOINTS: JOINTS SHALL BE FILLED WITH JOINT-SEALING MATERIAL NO LESS THAN 8 HOURS AFTER POUR AND WITHIN 2 WEEKS AFTER POUR. THOROUGHLY CLEAN ALL FOREIGN MATERIAL INCLUDING ANY MEMBRANE CURING COMPOUND FROM JOINT.
 - C. TESTING: LABORATORY AND FIELD TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE. IN ADDITION, ALL RETESTING SHALL BE DONE AT CONTRACTOR'S EXPENSE.
 - D. DESIGN MIXES AND TESTING REQUIREMENTS FOR THE CONCRETE PAVEMENT SHALL BE AS FOLLOWS:
 - 1. SLUMP TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE.
 - 2. MAKE ONE STRENGTH TEST FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF PLACED PER DAY. NUMBER OF CYLINDERS SHALL BE THREE FOR STRENGTH TEST. TEST ONE AT THREE DAYS, ONE AT SEVEN DAYS AND ONE AT 28 DAYS.

PAVEMENT MARKING:
1.01 QUALITY ASSURANCE

- A. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS IN A NEAT AND ACCURATE MANNER.
- B. ALL EQUIPMENT SHALL BE OF A TYPE AND DESIGN WHICH WILL READILY OBTAIN THE REQUIRED UNIFORMITY OF APPLICATION OF THE PAVEMENT MARKINGS BOTH AS TO THICKNESS OF COATING AND AS TO ALIGNMENT.

1.02 REFERENCE STANDARDS

- A. THE FOLLOWING PUBLICATIONS OF THE ISSUE LISTED BELOW, BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY.
 - 1. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
 - 2. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.

1.03 SUBMITTALS

- A. SUBMIT PAINT TESTS, AS SPECIFIED IN SECTION 971 OF FDOT SPECIFICATIONS AND AS APPLICABLE TO HEREAFTER SPECIFIED MATERIAL.

1.04 MATERIALS AND COLORS

- A. THERMOPLASTIC: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 711 AND 971 OF THE FDOT SPECIFICATIONS, LATEST EDITION.
- B. PAINT: IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 710 AND 971 OF THE FDOT SPECIFICATIONS, LATEST EDITION. LATEX PAINT ONLY.
- C. COLORS: YELLOW AND WHITE PER FOOT, OR AS INDICATED ON DRAWINGS.

1.05 EXECUTION

- A. TIME OF APPLICATION: PAINTING SHALL BE DONE ONLY DURING DAYLIGHT HOURS AND AS FAR AS PRACTICAL, SHALL BE TERMINATED IN TIME TO PERMIT SUFFICIENT DRYING BY SUNSET.

- B. WEATHER LIMITATIONS: NO PAINT SHALL BE APPLIED WHEN ANY MOISTURE IS PRESENT ON THE SURFACE TO BE PAINTED OR WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES F. PAINTING SHALL NOT BE DONE WHEN WINDS ARE SUFFICIENT TO CAUSE SPRAY DUST.
- C. PREPARATION OF SURFACE TO BE PAINTED: THE SURFACE WHICH IS TO BE PAINTED SHALL BE CLEANED, BY COMPRESSED AIR OR OTHER EFFECTIVE MEANS, IMMEDIATELY BEFORE THE START OF PAINTING AND SHALL BE CLEAN AND DRY WHEN THE PAINT IS APPLIED. ANY VEGETATION OR LOOSE SOIL SHALL BE REMOVED FROM THE PAVEMENT BEFORE STRIPING IS BEGUN.
- D. MIXING PAINT: THE PAINT SHALL BE THOROUGHLY MIXED BEFORE IT IS POURED INTO THE PAINTING MACHINE AND NO THINNING OF THE PAINT IN THE MACHINE WILL BE ALLOWED AT ANY TIME. BEFORE THE START OF EACH DAY'S WORK THE PAINT CONTAINER, THE CONNECTIONS AND THE SPRAY NOZZLES ON THE MACHINE SHALL BE THOROUGHLY CLEANED WITH PAINT THINNER OR OTHER SUITABLE CLEANER.
- E. PAINT APPLICATION: THE TRAFFIC MARKINGS SHALL BE OF THE SPECIFIED DIMENSIONS WITH CLEAN, TRUE EDGES AND WITHOUT SHARP BREAKS IN THE ALIGNMENT. A UNIFORM COATING OF PAINT SHALL BE OBTAINED AND THE FINISHED MARKINGS SHALL CONTAIN NO LIGHT SPOTS OR PAINT SKIPS. ANY STRIPES WHICH DO NOT HAVE A UNIFORM, SATISFACTORY APPEARANCE, BOTH DAY AND NIGHT, SHALL BE CORRECTED.
- F. RATE OF APPLICATION: THE MINIMUM RATE OF APPLICATION FOR PAINT SHALL BE AS FOLLOWS:
 - 1. FOUR INCH SOLID: 20 GALLONS PER MILE
 - 2. ANY OTHER WIDTH STRIPE OR MARKINGS: A DIRECT PROPORTION OF THE ABOVE.
 - 3. HANDICAP LOGO: IN CONFORMANCE TO THE REQUIREMENTS OF THIS SECTION AND LOCAL CODES.
- G. REQUIRED FILM THICKNESS: THE MINIMUM WET FILM THICKNESS FOR ALL PAINTED AREAS SHALL BE 15 MILS.
- H. ALIGNMENT OF STRIPES: WHERE A STRIPE DEVIATES FROM THE CORRECT ALIGNMENT, AS INDICATED BY THE STRING LINE, BY MORE THAN ONE INCH IN ANY 20 FOOT LENGTH, IT SHALL BE OBLITERATED AND THE STRIPE CORRECTED HEREAFTER AS SPECIFIED IN PARAGRAPH "CORRECTIVE MEASURES".

1.06 PROTECTION OF PAINTED MARKINGS

- A. PROTECTION OF STRIPES: ALL NEWLY PAINTED STRIPES, OR OTHER MARKINGS, SHALL BE PROTECTED UNTIL THE PAINT IS SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THE MARKING WITHOUT DAMAGE FROM THE TIRES.
- B. REPAIR OF DAMAGED AREAS: ANY PORTION OF THE STRIPES DAMAGED BY PASSING TRAFFIC OR FROM ANY OTHER CAUSE, SHALL BE REPAINTED AT THE CONTRACTOR'S EXPENSE.

1.07 DIMENSION AND ALIGNMENT TOLERANCE

- A. DIMENSIONS: NO MARKING SHALL BE LESS THAN THE SPECIFIED WIDTH. NO MARKINGS SHALL EXCEED THE SPECIFIED WIDTH BY MORE THAN 1/2 INCH. ALIGNMENT TOLERANCES SHALL BE AS SPECIFIED IN 1.05-H.
- B. CORRECTION RATES: ANY CORRECTIONS OF VARIATION IN THE WIDTH OF OR IN THE ALIGNMENT OF STRIPES SHALL NOT BE MADE ABRUPTLY BUT THE STRIPES SHALL BE RETURNED TO THE DESIGN WIDTH AT THE RATE OF AT LEAST 10 FEET FOR EACH 1/2 INCH.

1.08 CORRECTIVE MEASURES

- A. ALL PAVEMENT MARKINGS WHICH FAIL TO MEET THE SPECIFICATIONS, INCLUDING THE PERMISSIBLE TOLERANCES AND THE APPEARANCE REQUIREMENTS, OR ARE MARRED OR DAMAGED BY TRAFFIC OR FROM OTHER CAUSES, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL DRIP AND SPATTERED PAINT SHALL BE REMOVED, WHENEVER IT IS NECESSARY TO REMOVE PAINT IT SHALL BE DONE BY MEANS WHICH WILL NOT DAMAGE THE UNDERLYING SURFACE OF THE PAVEMENT, WHEN NECESSARY TO CORRECT A DEVIATION WHICH EXCEEDS THE PERMISSIBLE TOLERANCE IN ALIGNMENT, THAT PORTION OF THE STRIPE AFFECTED SHALL BE REMOVED AND REPAINTED IN ACCORDANCE WITH THESE SPECIFICATIONS.
- B. CORRECTIVE DEVICES: MISALIGNMENT, DEFECTIVE SURFACES, ETC., SHALL BE CORRECTED BY CHEMICAL AGENTS, OR BY ANY OTHER TYPE OF MECHANICAL DEVICE WHICH WILL EFFECTIVELY REMOVE THE PAINT WITHOUT DAMAGE TO THE PAVEMENT SURFACE, OR PREVENT THE REAPPLICATION OF MARKINGS.

1.09 SPARE PAINT

- A. PROVIDE THE OWNER WITH A MINIMUM OF FIVE GALLONS OF TRAFFIC PAINT FROM THE SAME BATCH USED IN APPLICATION OF PAVEMENT MARKINGS. ALSO PROVIDE PAINT SPECIFICATIONS AND THE MANUFACTURER'S IDENTIFICATION NUMBER OF THE PAINT USED.

1.10 MARKING TYPE

- A. ANY PAVEMENT MARKINGS LOCATED WITHIN PUBLIC RIGHTS-OR-WAY SHALL BE PER FDOT OR LOCAL JURISDICTION STANDARDS.
- B. ANY PAVEMENT MARKINGS LOCATED ON-SITE SHALL BE PAINT UNLESS OTHERWISE INDICATED.

CONSTRUCTION TOLERANCES:

THE FOLLOWING ARE THE ALLOWABLE DEVIATIONS FROM PROJECT DESIGN GRADES AND GRADIENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM AND DOCUMENT COMPLIANCE WITH THESE TOLERANCES PRIOR TO PROCEEDING FROM ONE PHASE OF CONSTRUCTION TO THE NEXT:

- 1. STORMWATER MANAGEMENT/ DRAINAGE FACILITIES
 - A. PERIMETER CONTAINMENT BERM:
 - MINIMUM ELEVATION = DESIGN GRADE
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
 - B. WATER CONTROL STRUCTURE:
 - MINIMUM GRATE ELEVATION = DESIGN GRADE
 - MAXIMUM GRATE ELEVATION = DESIGN GRADE + 0.10 FEET
 - MINIMUM CREST ELEVATION = DESIGN GRADE
 - MAXIMUM CREST ELEVATION = DESIGN GRADE + 0.05 FEET
 - MINIMUM BLEEDER ELEVATION = DESIGN GRADE
 - MAXIMUM BLEEDER ELEVATION = DESIGN GRADE + 0.05 FEET
 - MINIMUM TOP OF FILTER ELEVATION = DESIGN GRADE
 - MAXIMUM TOP OF FILTER ELEVATION = DESIGN GRADE + 0.05 FEET
 - C. CATCH BASINS/INLETS/PIPE INVERTS:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
 - D. SWALE GRADES/ GRADIENTS:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE +0.10 FEET
 - MINIMUM FLOWLINE GRADIENT = 90% OF DESIGN GRADIENT
 - E. PAVEMENT GRADES/ GRADIENTS:
 - a. FLEXIBLE PAVEMENT GRADE:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.10 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FEET
 - b. FLEXIBLE PAVEMENT GRADIENTS:
 - MINIMUM GRADIENTS = 90% DESIGN GRADIENT
 - (CROSS SLOPE AND LONGITUDINAL SLOPE)

- c. RIGID (CONCRETE) PAVEMENT GRADE:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
- d. RIGID PAVEMENT GRADIENTS:
 - MINIMUM GRADIENTS = 90% OF DESIGN GRADIENT
 - (CROSS SLOPE AND LONGITUDINAL SLOPE)
 - MAXIMUM HANDICAP RAMP = 1:12
 - (GRADIENT UNLESS OTHERWISE SPECIFIED BY LOCAL CODES)

- 2. WATER DISTRIBUTION/ WASTEWATER COLLECTION FACILITIES
 - UNLESS OTHERWISE SPECIFIED BY THE LOCAL UTILITY COMPANIES, THE FOLLOWING ARE THE ALLOWABLE TOLERANCES FOR THESE ACTIVITIES:

- A. MANHOLES AND PIPE INVERTS:
 - MINIMUM ELEVATION = DESIGN GRADE - 0.05 FEET
 - MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FEET
 - MINIMUM LINE GRADIENT = 90% OF DESIGN GRADIENT

- B. ALIGNMENT/ LOCATION OF APPURTENANCES:
 - AS ALLOWED BY THE APPLICABLE UTILITY AND /OR LOCAL GOVERNMENTAL ENTITY. CONTRACTOR SHALL CONFIRM AND DOCUMENT THIS PRIOR TO CONSTRUCTION.

NOTE: THE AFOREMENTIONED TOLERANCES DO NOT APPLY TO DESIGN SECTIONS THAT FALL UNDER THE MORE STRINGENT AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES.

TESTING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, COORDINATING, DOCUMENTING, AND PROVIDING THE FOLLOWING MINIMUM TESTING:

WATER DISTRIBUTION

UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE LINES SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE. THE LINES SHALL BE TESTED IN SEGMENTS BETWEEN MAINLINE VALVES. BACTERIOLOGICAL TEST SAMPLES SHALL BE TAKEN AT ALL BRANCH LINE TERMINATION POINTS OR CONNECTION POINTS AND ALONG THE MAIN LINES AT DISTANCES NOT TO EXCEED 2,640 FEET. ALL HYDRANTS AND VALVES SHALL BE OPERATED TO TEST PERFORMANCE.

WASTEWATER COLLECTION

UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FORCE MAIN SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE. VALVES SHALL BE OPERATED TO TEST PERFORMANCE. DEPENDING UPON WATER TABLE CONDITIONS DETERMINED BY THE ENGINEER, THE GRAVITY LINES SHALL BE TESTED FOR EITHER INFILTRATION OR EXFILTRATION AND INFLOW. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OF ALL MAIN GRAVITY LINES, ALONG WITH A LOG OF LATERAL LOCATIONS. ALL ELECTRICAL AND MECHANICAL DEVICES AT LIFT STATIONS SHALL BE TESTED TO VERIFY PROPER OPERATIONAL STATUS. MAINTENANCE MANUALS SHALL BE PROVIDED.

PRIVATE ROADWAY / PARKING SUBGRADE

THE SUBGRADE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF, DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 20,000 SF AND THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

PRIVATE ROADWAY/ PARKING BASE

THE BASE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF. DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 10,000 SF. A SIEVE ANALYSIS SHALL BE PERFORMED AT A FREQUENCY OF ONE PER ACRE. THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

PRIVATE ASPHALT PAVING

ASPHALTIC CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS: THICKNESS, SIEVE ANALYSIS MIX TYPE, STABILITY %, BITUMAN AND DENSITY. THE ASPHALT SHALL BE TESTED AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

PUBLIC ROADWAYS

AS REQUIRED BY THE ENTITY HAVING JURISDICTION, BUT NOT LESS THAN REQUIRED FOR PRIVATE ROADWAYS AS OUTLINED ABOVE.

PORTLAND CEMENT CONCRETE

CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS: SLUMP AND 7 AND 28 DAY COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

RETENTION/DETENTION FACILITIES

IF INCLUDED WITHIN THE PROJECT, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND PERFORM A DRAW DOWN AND CAPACITY TEST OF THE FACILITIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT WATER AND ACCEPTABLE MEANS TO MEASURE THE WATER VOLUMES PROVIDED, IF REQUIRED BY THE ENGINEER, IF A FILTRATION SYSTEM IS INCLUDED WITHIN THE PROJECT, THE FILTER MEDIA SHALL BE TESTED FOR COMPLIANCE WITH ALL CURRENT SPECIFICATIONS OF THE WATER MANAGEMENT DISTRICT. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.

IN ADDITION TO THE ENVIRONMENTAL PROTECTION DURING CONSTRUCTION SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING IN THE ORDER LISTED:

- 1. PRIOR TO COMMENCEMENT, PROVIDE NOTIFICATIONS TO THE WATER MANAGEMENT DISTRICT AND LOCAL GOVERNMENT.
- 2. ERECT A TURBIDITY SCREEN ON ANY DOWNSTREAM SYSTEM WHICH RECEIVES RUNOFF FROM THE PROJECT. INSTALL OUTFALL CONTROL STRUCTURE AND FILTRATION SYSTEM IF INCLUDED.
- 3. PROVIDE A TEMPORARY FILTER CLOTH COVERED WITH GRAVEL OVER ANY PROPOSED FILTERS.
- 4. INSTALL A TEMPORARY TURBIDITY SCREEN AT ALL CONTROL STRUCTURES.
- 5. CONSTRUCT A TEMPORARY PERIMETER BERM AS NECESSARY TO DIRECT ALL RUNOFF WITHIN ANY AREA PLANNED FOR CLEARING.
- 6. MAINTAIN FILTER DURING CONSTRUCTION TO PROVIDE CONTINUOUS OPERATION.

- 7. UPON PERFORMING FINAL GRADING, THE CONTRACTOR SHALL REMOVE ALL SILTS, CLAYS AND OTHER DELETERIOUS MATERIAL FROM THE BOTTOM OF ALL STORMWATER MANAGEMENT AREAS PRIOR TO GRASSING.
- 8. AFTER ACHIEVING A NON-ERODIBLE COVER OF GRASS, REMOVE TEMPORARY FILTER CLOTH AND GRAVEL OVER FILTERS AND REPLACE WITH NEW FILTER CLOTH AND COVER MATERIAL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- 9. NOTIFY THE OWNER FOR FINAL INSPECTION.
- 10. UPON FINAL APPROVAL FROM OWNER, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES.

NOTE: GENERAL NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET ARE APPLICABLE TO THIS PROJECT UNLESS OTHERWISE NOTED. THE PROJECT NOTES AND PLANS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND SPECIFICATIONS SHOWN ON THIS SHEET.

DRAINAGE GENERAL NOTES:

- 1. CONTRACTOR SHALL MAINTAIN A CURRENT AND UPDATED SET OF AS-BUILT DRAWINGS AT ALL TIMES AND PROVIDE ONE COPY TO THE ENGINEER UPON COMPLETION OF CONSTRUCTION.
- 2. ALL BACKFILL SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE BEDDING DETAILS.
- 3. CONTRACTOR SHALL COORDINATE ALL WORK IN THE COUNTY RIGHT-OF-WAY WITH THE APPROPRIATE COUNTY.
- 4. ALL REINFORCED CONCRETE PIPE (RCP) CULVERTS SHALL MEET ASTM C 76, CLASS III, TYPE "B" WALL FOR ROUND PIPE AND MEET ASTM C 507, TABLE I FOR ELLIPTICAL PIPE AND OTHERWISE BE INSTALLED AND MANUFACTURED IN ACCORDANCE WITH F.D.O.T. SECTIONS 430 & 941.
- 5. CONTRACTOR SHALL SOD OR SEED & MULCH ALL DISTURBED AREAS ON-SITE AND OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
- 6. SOD ALL SWALE AND TREATMENT AREAS.
- 7. CONTRACTOR SHALL SOD ALL DISTURBED AREAS WITHIN THE COUNTY RIGHT-OF-WAY
- 8. THE GRADES REPRESENT THE FINISHED GRADE ON TOP OF THE SOD.
- 9. SHOP DRAWINGS ARE REQUIRED FOR ALL STRUCTURES.
- 10. THE PROPOSED MITERED END SECTIONS WITHIN COUNTY RIGHT OF WAY, SHALL EXTEND BEYOND THE PROPOSED EDGE OF PAVEMENT A MINIMUM OF 6'-0".
- 11. CONTRACTOR RESPONSIBLE FOR WATERING AND MOWING OF SOD PLACED ON THE JOB SITE AND IN THE ROW UNTIL ESTABLISHMENT AND FINAL ACCEPTANCE BY THE OWNER AND COUNTY.
- 12. CURB ELEVATIONS SHOWN ARE FOR THE LOW SIDE OF THE CURB UNLESS OTHERWISE NOTED.
- 13. ALL SLOPES TO BE 4:1 MAXIMUM.
- 14. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS, LATEST EDITION.

GENERAL SPECIFICATIONS:

- 1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH FLORIDA DEPT. OF TRANSPORTATION (F.D.O.T.) STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION, CURRENT EDITION.
- 2. THE CONTRACTOR SHALL SUPPLY SATISFACTORY DENSITY TESTS OF SUBGRADE & LIMEROCK BASE MATERIALS TO THE ENGINEER PRIOR TO PAYMENT &/OR FINAL ACCEPTANCE. ONE TEST PER COURSE PER 600 SQUARE YARDS.
- 3. ALL REINFORCED CONCRETE PIPE (RCP) CULVERTS SHALL MEET ASTM C 76, CLASS III, TYPE "B" WALL FOR ROUND PIPE & MEET ASTM C 507, TABLE I FOR ELLIPTICAL PIPE & OTHERWISE BE INSTALLED & MANUFACTURED IN ACCORDANCE WITH F.D.O.T. SECTIONS 430 & 941.
- 4. CONTRACTOR SHALL PROVIDE & MAINTAIN TRAFFIC CONTROL IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS CURRENT EDITION & THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
- 5. CONTRACTOR SHALL SEED & MULCH ALL DISTURBED AREAS & OTHERWISE RESTORE ALL AREAS TO EXISTING CONDITION OR BETTER.
- 6. ALL PAVEMENT STRIPING TO BE TWO COATS OF HEAVY DUTY ACRYLIC BASED TRAFFIC PAINT.
- 7. ALUMINUM SIGN BLANKS: ALL SIGN BLANKS & STREET SIGNS SHALL BE FABRICATED FROM ALUMINUM SHEET CONFORMING TO ASTM SPECIFICATION B209, WITH 5052-H38 ALLOY & SHALL HAVE A THICKNESS OF 0.080 INCHES. SIGN BLANK DIMENSIONS, HOLE SIZE, LOCATION OF HOLES, & CORNER RADII SHALL BE AS DEFINED IN THE U.S. DEPARTMENT OF TRANSPORTATION STANDARD HIGHWAY MANUAL, & THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 8. SIGN POSTS: STEEL POSTS SHALL CONFORM TO THE STANDARD SPECIFICATION OF HOT-ROLLED CARBON SHEET STEEL, STRUCTURAL QUALITY. THE CROSS SECTION OF THE POST SHALL BE A SQUARE TUBE FORMED OF 14-GAUGE SQUARE GALVANIZED STEEL POSTS - FULL PUNCH. POSTS TO BE 2" SQUARE, CAREFULLY ROLLED TO SIZE & WELDED IN THE CORNER. THE FURNISHED MEMBERS SHALL BE STRAIGHT & SHALL HAVE A SMOOTH UNIFORM FINISH. ALL SIGN POST OUTSIDE CONCRETED AREAS SHALL BE PLACED WITH HI STRENGTH CONCRETE MIX WITH MEETS OR EXCEEDS ASTM C-387 SPECIFICATIONS. EACH POST SHALL HAVE A MINIMUM OF 20 POUNDS & A MAXIMUM OF 40 POUNDS OF CONCRETE PLACED AROUND EACH POST. THE TOP OF THE CONCRETE SHALL BE A MINIMUM OF 18" BELOW THE FINAL SURFACE. ALL SIGNS PLACED IN CONCRETED AREAS SHALL HAVE A 10"-12" PVC PIPE LINER INSERT SURROUNDING THE SIGN POST. THE PVC SHALL BE FLUSH WITH THE FINAL SURFACE OF THE SURROUNDING CONCRETE & BE FILLED WITH DIRT TO SUPPORT THE SIGN. THESE SHALL NOT BE FILLED WITH CONCRETE.
- 9. SIGN HEIGHT & LOCATIONS: ALL POST MOUNTED SIGNS SHALL CONFORM TO CURRENT FDOT DESIGN STANDARDS. FOR SIGN INSTALLATIONS IN RESIDENTIAL AREAS WITH NO PAVED SHOULDER, SIDEWALK OR CURB & GUTTER USE THE STANDARD BELOW FOR SIGN PLACEMENT & HEIGHTS.
- 10. ALL WORK SHOWN BY INDEX NO. SHALL BE IN ACCORDANCE WITH F.D.O.T. ROADWAY & TRAFFIC DESIGN STANDARDS CURRENT EDITION.

21/9/2026 2:38:22 PM - P:\24-0703 - PEACE RIVER (HEATON)\DESIGN\CADD\DIPLAN SET\02-03_GENERAL NOTES.DWG - STEVEN MAYNARD



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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

PEACE RIVER SUBDIVISION
GENERAL NOTES

PUNTA GORDA SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST

FLORIDA

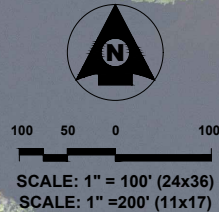
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PROJECT No.:	24-0703		
	SHEET:	3	

Bar Measures 1 inch

2/19/2026 2:38:48 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CADD\PLAN SET\04_AERIAL_MAP.DWG - STEVEN MAYNARD



LEGEND:
 - - - - - PROJECT BOUNDARY - 1.94 AC

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

**PEACE RIVER SUBDIVISION
 AERIAL MAP - 2020**
 SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST
 FLORIDA

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DATE:	MAY, 2024	SURVEY DATUM	NAVD 88
PROJECT No.:	24-0703	SHEET:	4
Bar Measures 1 inch			

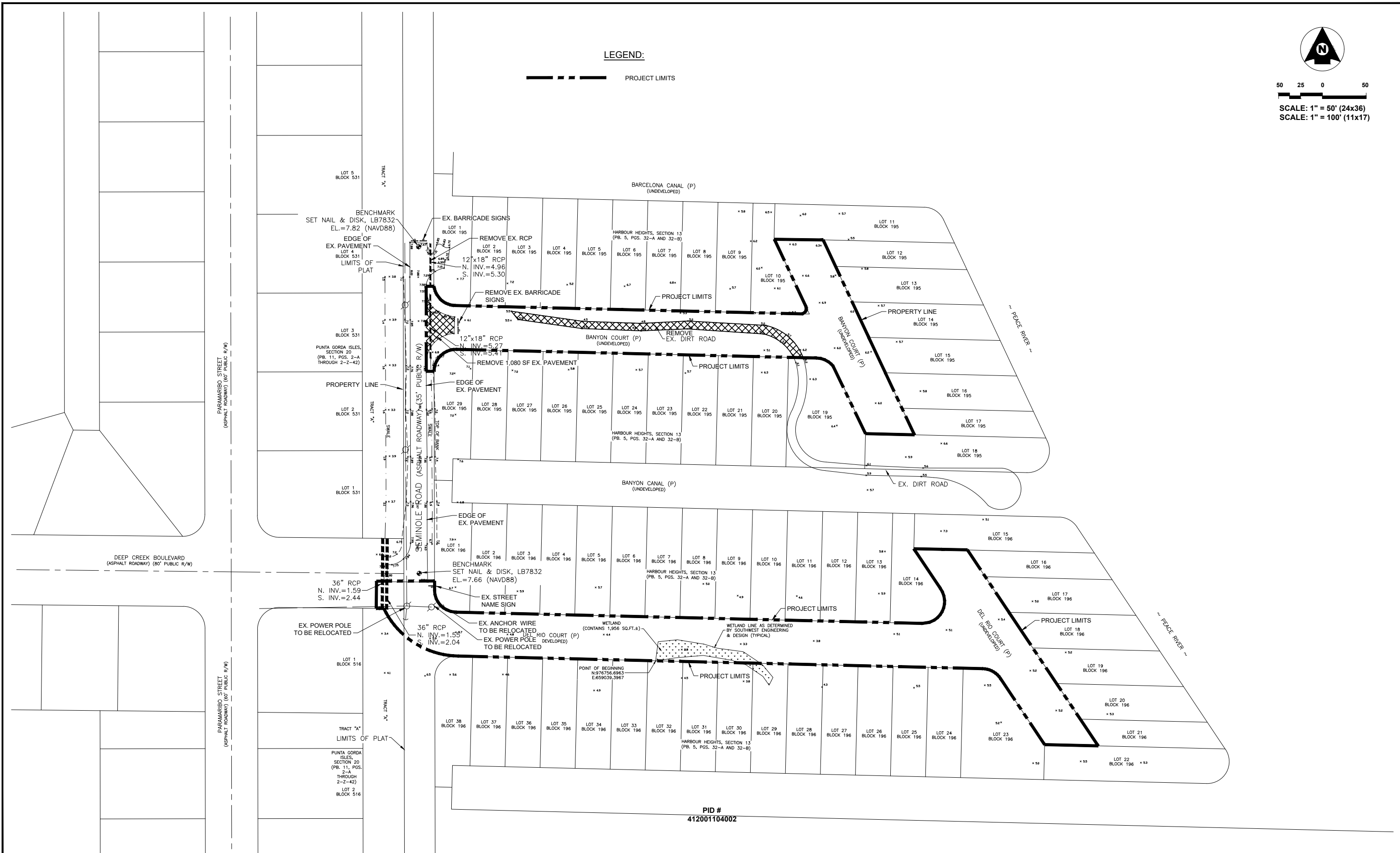


50 25 0 50

SCALE: 1" = 50' (24x36)
SCALE: 1" = 100' (11x17)

LEGEND:

--- PROJECT LIMITS



PID #
412001104002

21/9/2025 2:38:56 PM - P:124-0703 - PEACE RIVER 6 (HEATON)DESIGNCADDPLAN SET05_EXIST COND.DWG - STEVEN MAYNARD

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

PEACE RIVER SUBDIVISION EXISTING CONDITIONS / DEMO PLAN

PUNTA GORDA SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST FLORIDA

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DATE:	MAY, 2024	SURVEY DATUM	NAVD 88
PROJECT No.:	24-0703	SHEET:	5

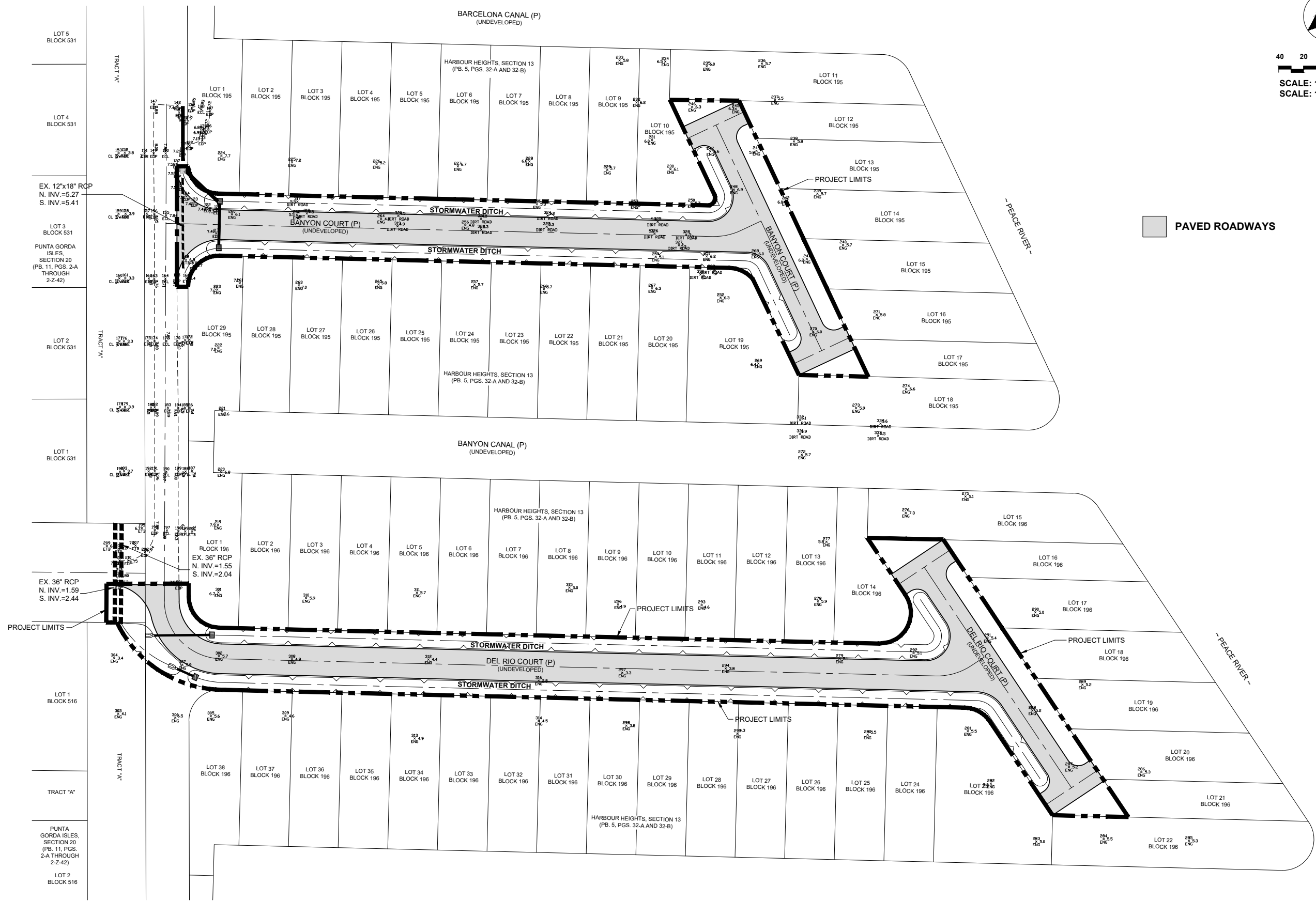
Bar Measures 1 inch



40 20 0 40

SCALE: 1" = 40' (24x36)
SCALE: 1" = 80' (11x17)

PAVED ROADWAYS



21/09/2026 2:35:00 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CADD\PLAN SET\06_MASTER SITE.DWG - STEVEN MAYNARD



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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

PEACE RIVER SUBDIVISION MASTER SITE PLAN

PUNTA GORDA SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST

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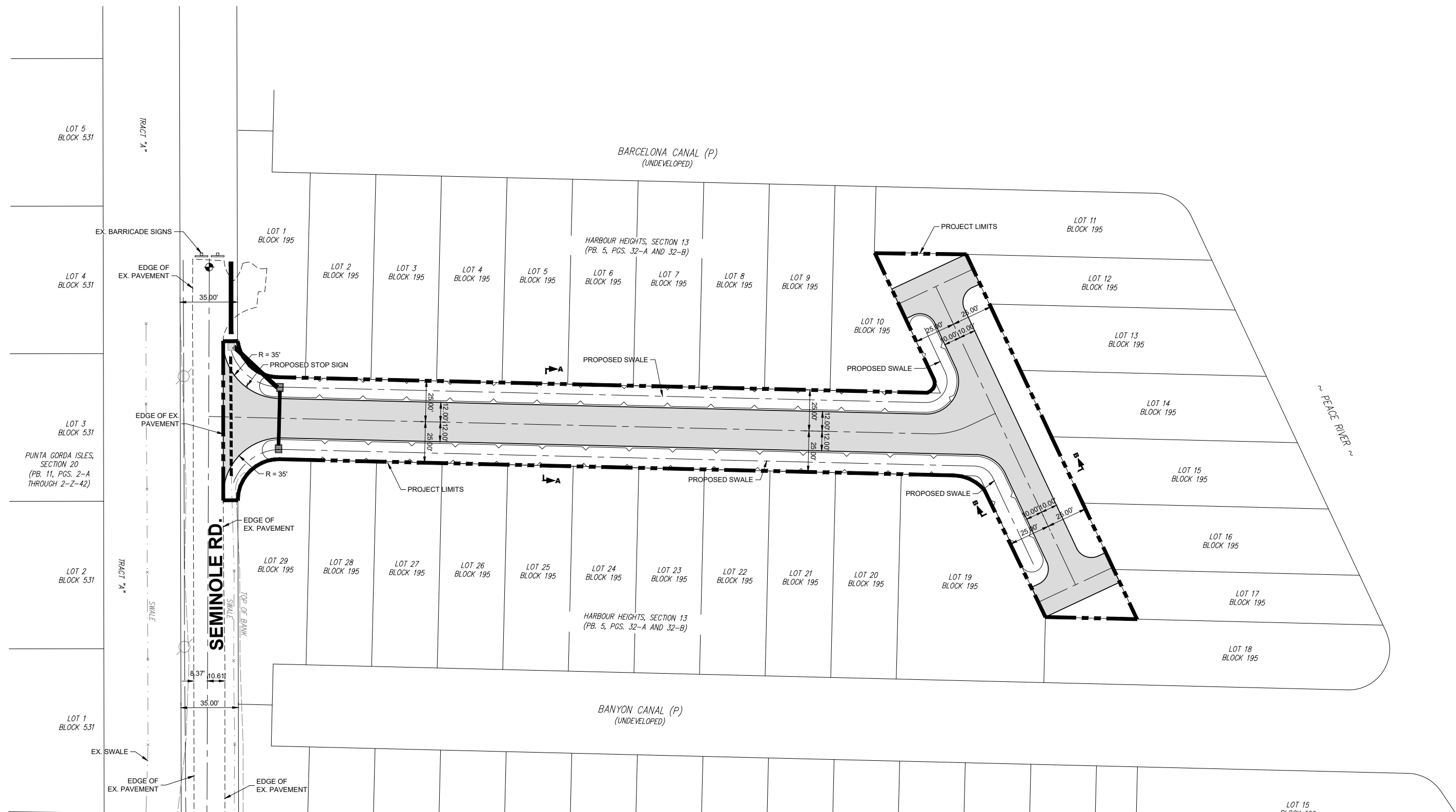
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PROJECT No.:	24-0703	SHEET:	6

Bar Measures 1 inch



30 15 0 30

SCALE: 1" = 30' (24x36)
SCALE: 1" = 60' (11x17)



PAVED ROADWAYS

21/19/2026 2:35:06 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CAD\DIPLAN SET\07-08 SITE PLAN.DWG - STEVEN MAYNARD



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Project No.:	24-0703
Project Manager:	GWB
Project Engineer:	GWB
Project Designer:	-
Checked By:	-
Approved By:	GWB

REV.	DATE	BY	CK'D	DESCRIPTION

PEACE RIVER SUBDIVISION SITE PLAN

PUNTA GORDA SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST FLORIDA

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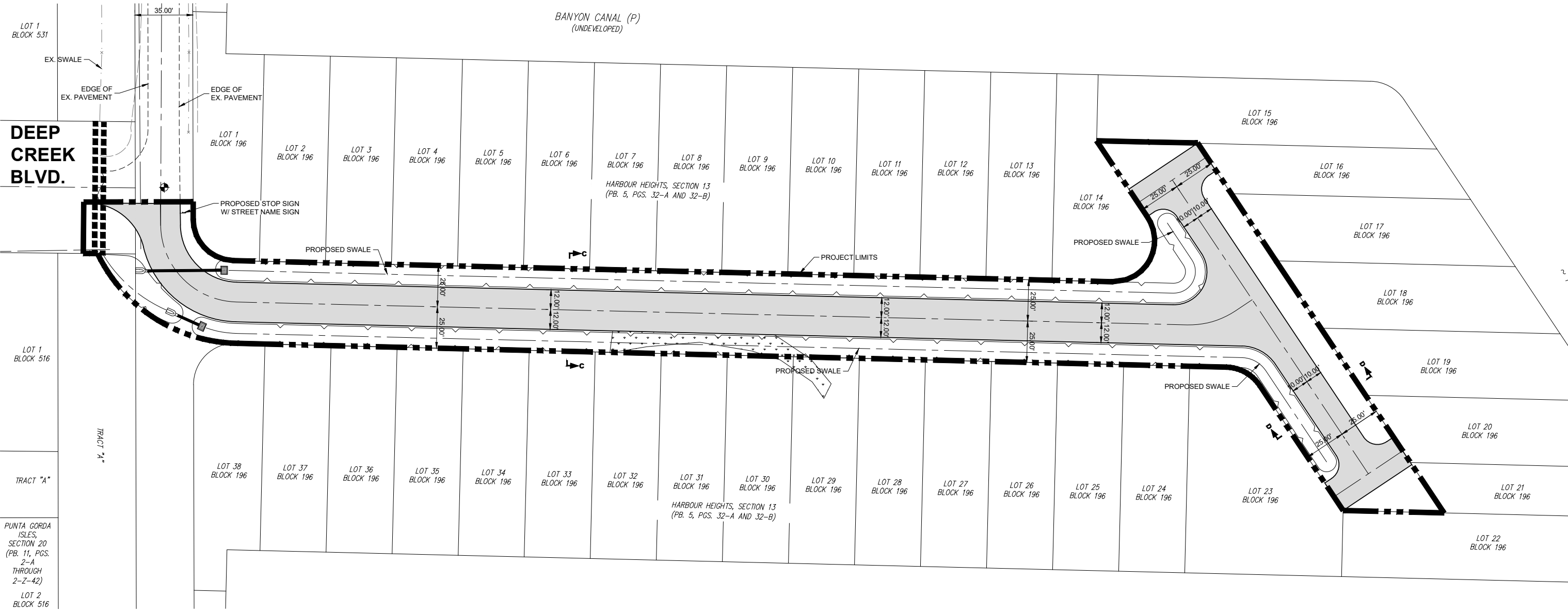
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PROJECT No.:	24-0703	SHEET:	7

Bar Measures 1 inch



20 10 0 20

SCALE: 1" = 20' (24x36)
SCALE: 1" = 40' (11x17)



21/9/2026 2:35:07 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CADD\PLAN SET\07-08 SITE PLAN.DWG - STEVEN MAYNARD

LOT 1 BLOCK 531
LOT 1 BLOCK 516
TRACT "A"
PUNTA GORDA ISLES, SECTION 20 (PB. 11, PGS. 2-A THROUGH 2-Z-42)
LOT 2 BLOCK 516



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Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

REV.	DATE	BY	CK'D	DESCRIPTION

PEACE RIVER SUBDIVISION SITE PLAN

PUNTA GORDA SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST FLORIDA

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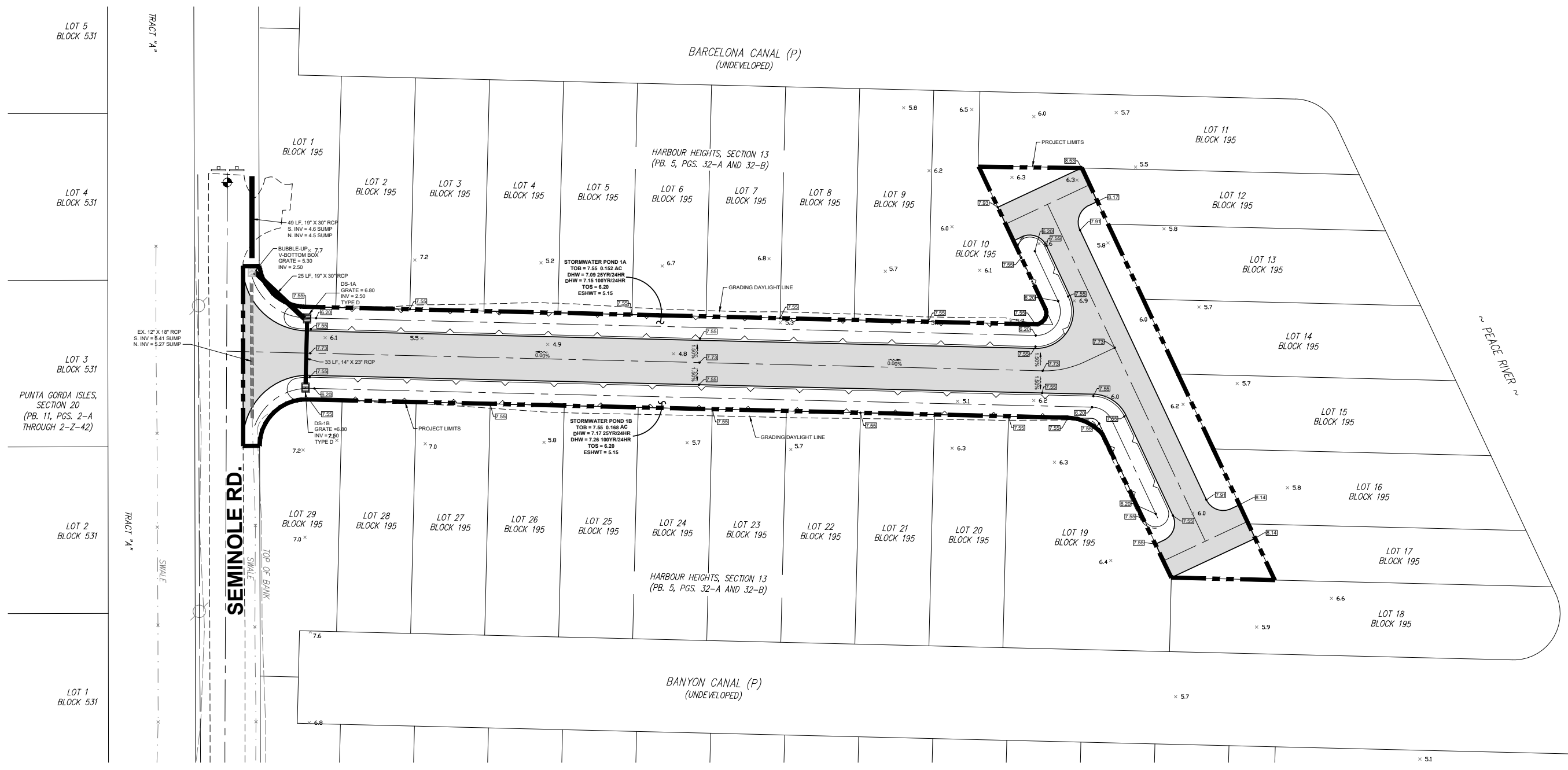
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PROJECT No.:	24-0703	SHEET:	8

Bar Measures 1 inch



20 10 0 20

SCALE: 1" = 20' (24x36)
SCALE: 1" = 40' (11x17)



21/02/2025 2:35:16 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CADD\PLAN SET\09-10 DRAINAGE PLAN.DWG - STEVEN MAYNARD



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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	GWB
Project Engineer:	GWB
Project Designer:	-
Checked By:	-
Approved By:	GWB

PUNTA GORDA

PEACE RIVER SUBDIVISION GRADING AND DRAINAGE PLAN

SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST

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DATE: MAY, 2024

PROJECT No.:

SURVEY DATUM
NAVD 88

24-0703

SHEET:

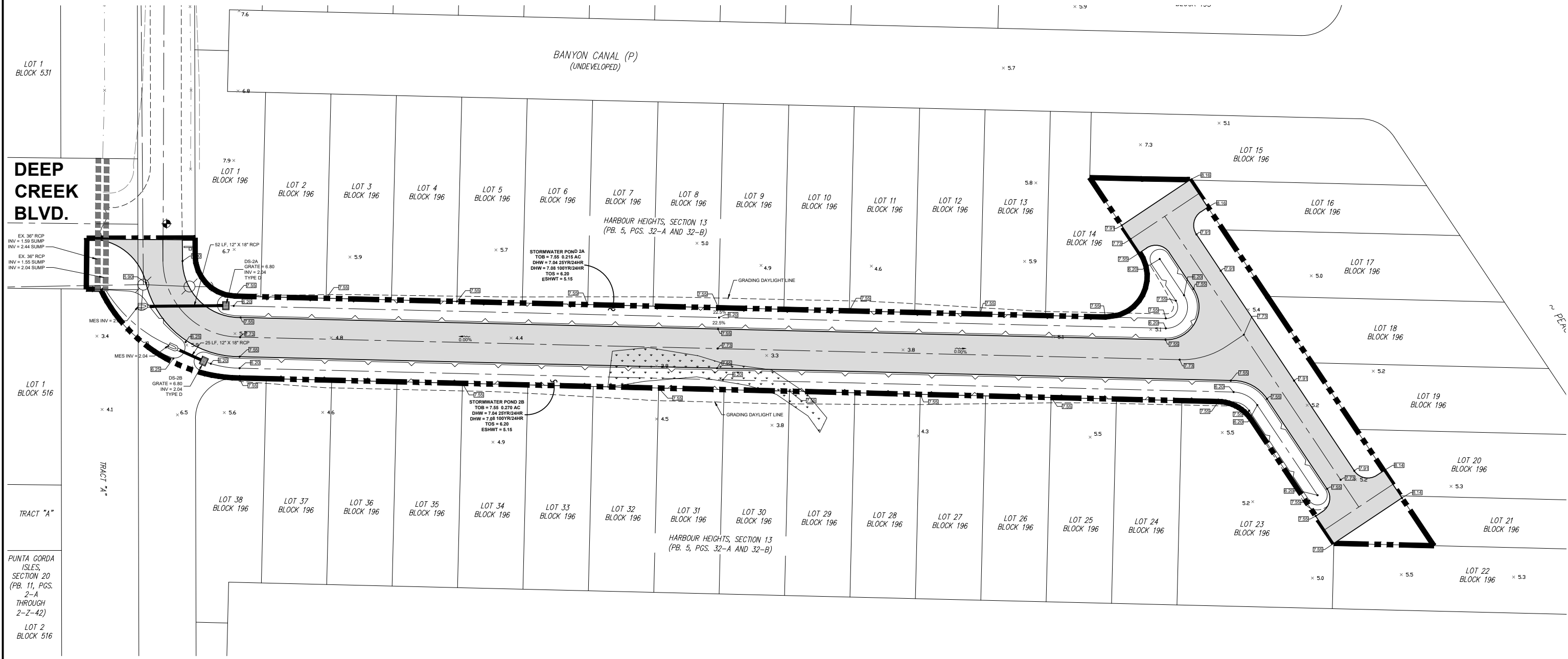
9

Bar Measures 1 inch



20 10 0 20

SCALE: 1" = 20' (24x36)
SCALE: 1" = 40' (11x17)



NOTE:
WELL WATER WILL BE USED FOR IRRIGATION

21/9/2026 2:38:17 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CADD\PLAN - STEVEN MAYNARD

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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.: 24-0703
 Project Manager: G W B
 Project Engineer: G W B
 Project Designer: -
 Checked By: -
 Approved By: G W B

**PEACE RIVER SUBDIVISION
 GRADING AND DRAINAGE PLAN**

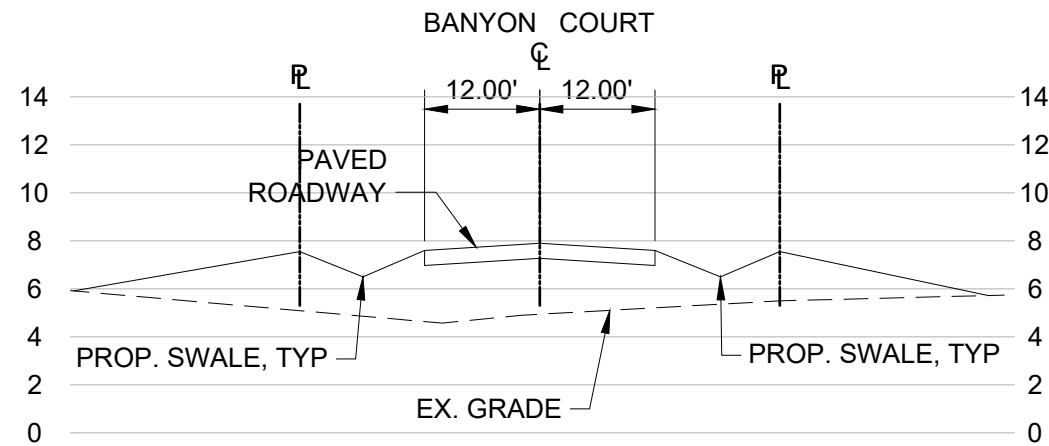
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DATE: MAY, 2024
 PROJECT No.: 24-0703
 SURVEY DATUM: NAVD 88
 SHEET: 10

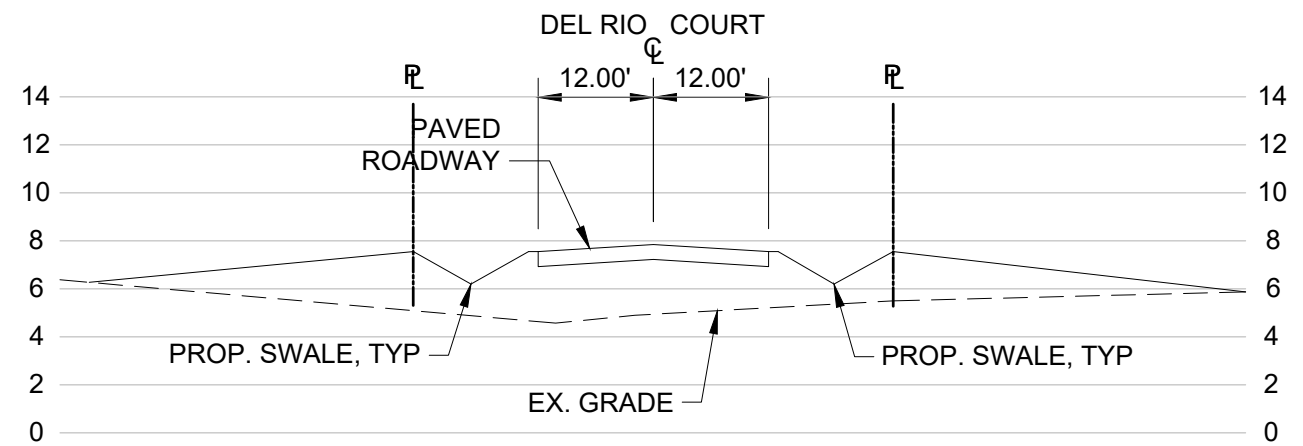
Bar Measures 1 inch

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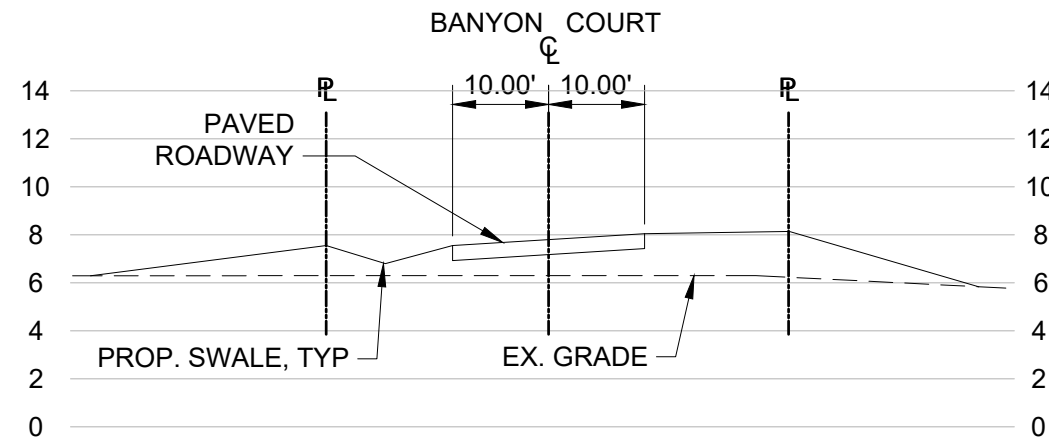
SECTION A-A

SCALE: 1"=10' H, 1"=4' V



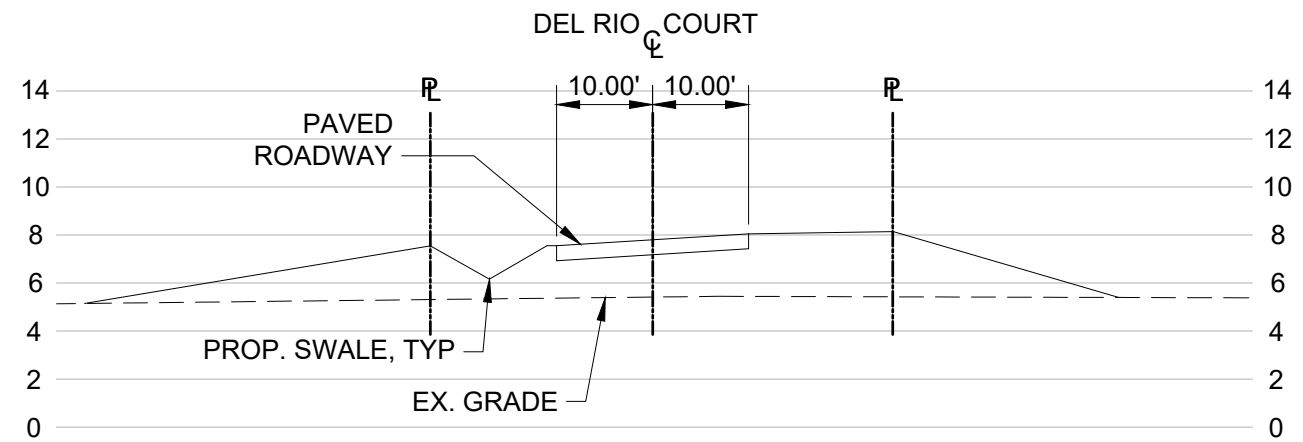
SECTION C-C

SCALE: 1"=10' H, 1"=4' V



SECTION B-B

SCALE: 1"=10' H, 1"=4' V



SECTION D-D

SCALE: 1"=10' H, 1"=4' V



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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

PEACE RIVER SUBDIVISION CROSS SECTIONS

PUNTA GORDA

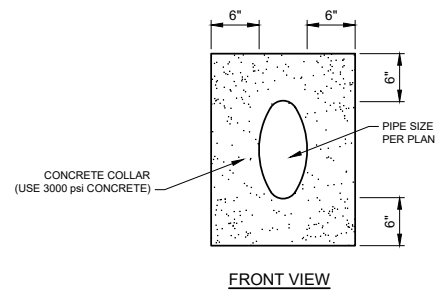
SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST

FLORIDA

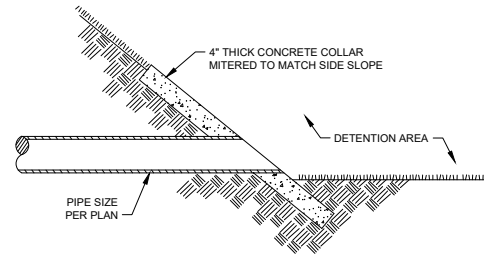
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DATE:	MAY, 2024	SURVEY DATUM	NAVD83
PROJECT No.:	24-0703	SHEET:	11

Bar Measures 1 inch



FRONT VIEW

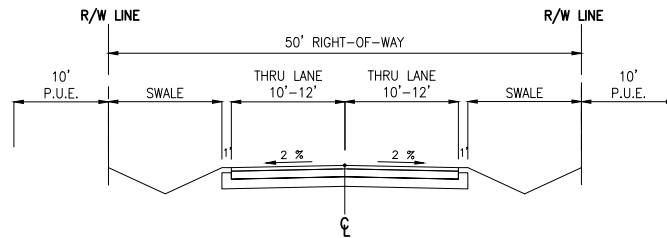


SECTION

MITERED END WITH CONCRETE COLLAR

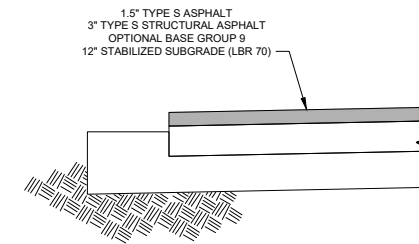
(ON SITE ONLY)

N.T.S.



50' RIGHT-OF-WAY

N.T.S.



DESIGN SECTION

N.T.S.

21/19/2025 2:35:36 PM - P:\124-0703 - PEACE RIVER 6 (HEATON)\DESIGN\CADD\PLAN SET\12_SITE_DRAINAGE DETAILS.DWG - STEVEN MAYNARD



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REV.	DATE	BY	CK'D	DESCRIPTION

Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

PUNTA GORDA

**PEACE RIVER SUBDIVISION
SITE AND DRAINAGE DETAILS**

SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST

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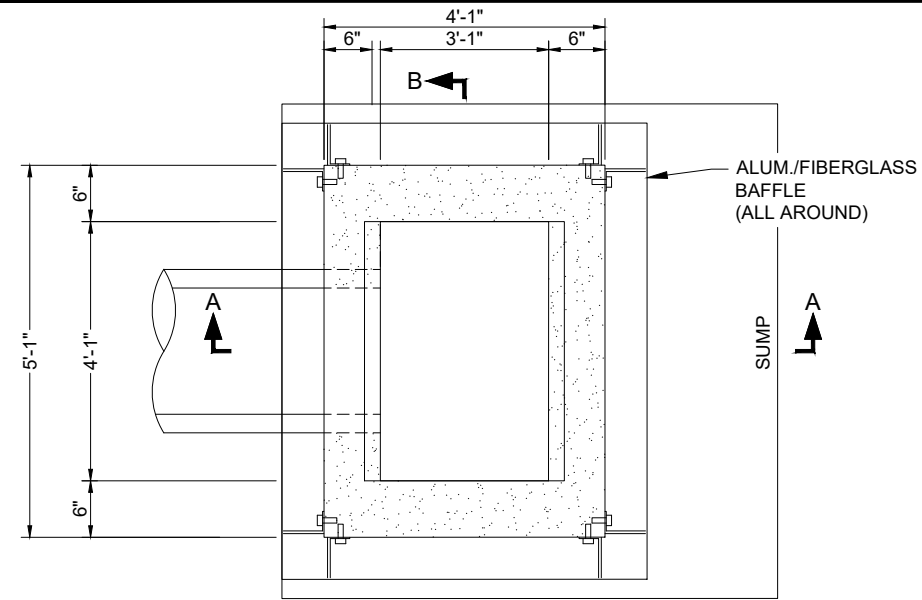
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24-0703

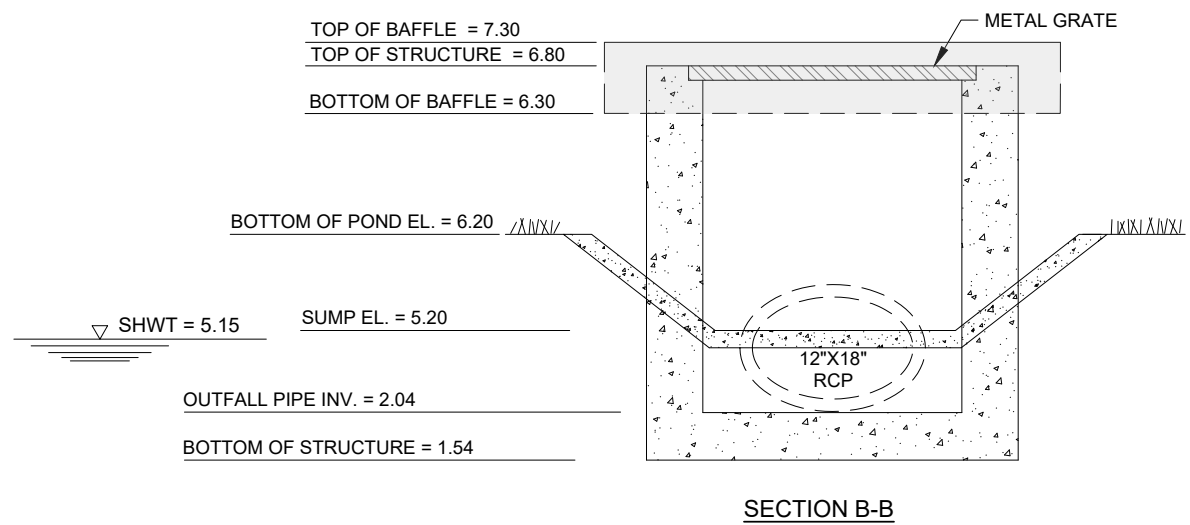
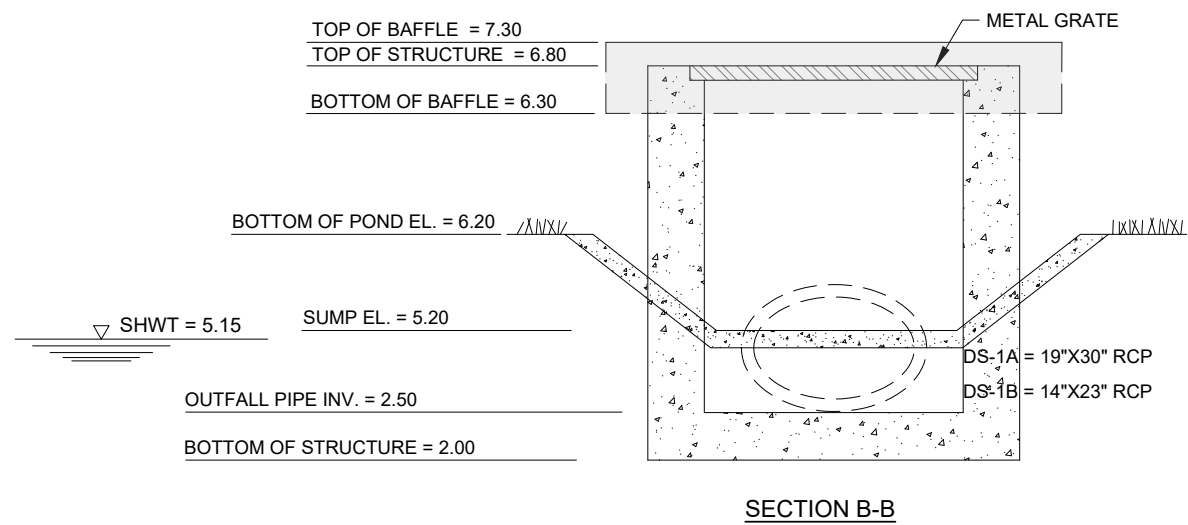
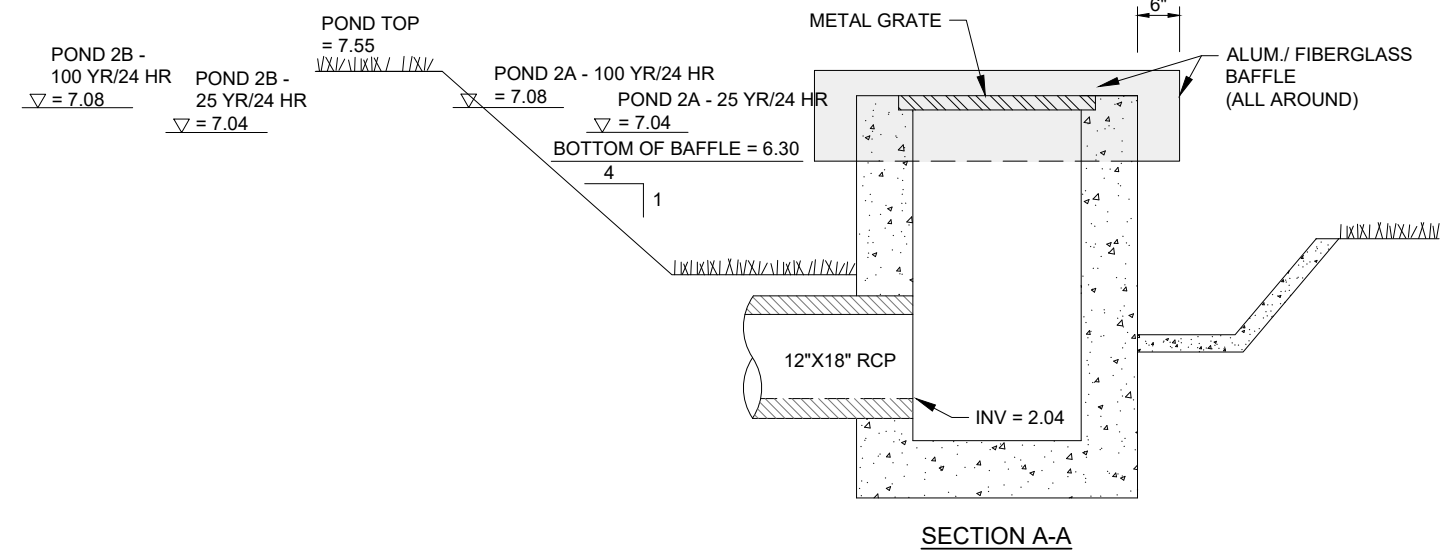
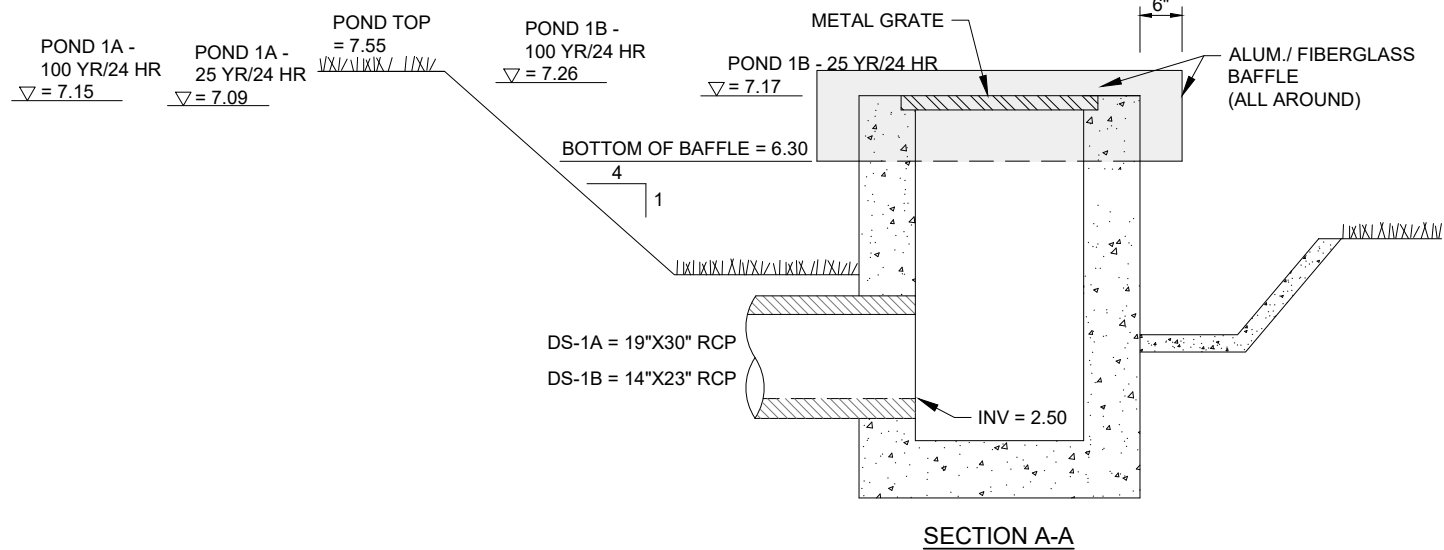
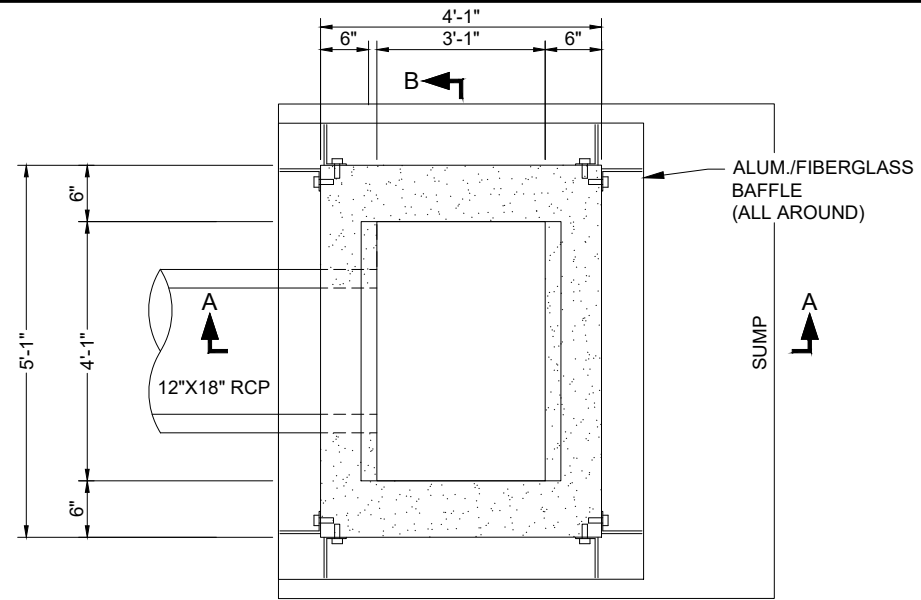
Bar Measures 1 inch

SHEET: 12

- ① 3/16" THICK STAINLESS STEEL OR 1/4" THICK ALUMINUM OR 1/4" FIBERGLASS FABRICATED SKIMMER PLATE 4 SIDES WITH OPEN TOP AND BOTTOM.
 - ② 3/8" DIAMETER STAINLESS STEEL EXPANSION ANCHORS. 3" LONG MIN. W/STAINLESS STEEL WASHERS & NUTS. IF HEIGHT OF SKIMMER IS 12" OR LESS 2 EACH SIDE REQUIRED. IF SKIMMER IS OVER 12" IN HEIGHT, SPACE BOLTS ONE FOR EACH 6" C.C. MAX. SPACING EACH SIDE OF SKIMMER.
 - ③ A 3"x3"x3"x3/8" COATED GALVANIZED TEE BAR SHALL BE FASTENED TO SKIMMER FOR PLATE STIFFENER. TEE BAR SHALL BE TACK WELDED HAVING EACH TACK NOT TO EXCEED 6" APART ALONG BOTH EDGES OF THE STRIP. PROVIDE 2"x2"x1/4" L BRACE AT 4' O.C.
- NOTES:**
- 1) ALL CONCRETE SHALL BE 3,000 PSI @ 28 DAYS.
 - 2) 3/4" CHAMFER ALL EXPOSED EDGES.
 - 3) STEEL REINFORCEMENT SHALL MEET WITH A.S.T.M. SPEC. (A-6115)4, DEFORMED BARS.
 - 4) STRUCTURES MAY BE PRECAST AT CONTRACTOR'S OPTION.
 - 5) TYPE "D" STRUCTURES SHALL USE STANDARD F.D.O.T. STEEL GRATES.



- ① 3/16" THICK STAINLESS STEEL OR 1/4" THICK ALUMINUM OR 1/4" FIBERGLASS FABRICATED SKIMMER PLATE 4 SIDES WITH OPEN TOP AND BOTTOM.
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 - 3) STEEL REINFORCEMENT SHALL MEET WITH A.S.T.M. SPEC. (A-6115)4, DEFORMED BARS.
 - 4) STRUCTURES MAY BE PRECAST AT CONTRACTOR'S OPTION.
 - 5) TYPE "D" STRUCTURES SHALL USE STANDARD F.D.O.T. STEEL GRATES.



CONTROL STRUCTURE DS-1A AND DS-1B TYPE D

N.T.S.

CONTROL STRUCTURE DS-2A AND DS-2B - TYPE D

N.T.S.

21/02/2025 2:35:37 PM - P:124-0703 - PEACE RIVER 6 (HEATON)DESIGNCADDPLAN SET12 SITE_DRAINAGE DETAILS.DWG - STEVEN MAYNARD

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 Certificate of Authorization No. 26551

REV.	DATE	BY	CK'D	DESCRIPTION

**PEACE RIVER SUBDIVISION
 SITE AND DRAINAGE DETAILS**

Project No.: 24-0703
 Project Manager: G W B
 Project Engineer: G W B
 Project Designer: -
 Checked By: -
 Approved By: G W B

PUNTA GORDA SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST FLORIDA

Gary W. Boyne, P.E.
 State of Florida, Professional Engineer
 License No. 62474
 This item has been digitally signed and sealed by:
 Gary W. Boyne, P.E.
 on the date adjacent to the seal.
 Printed copies of this document are not
 considered signed and sealed and the signature
 must be verified on any electronic copies.

DATE: MAY, 2024
 SURVEY DATUM: NAVD 88
 PROJECT No.: 24-0703
 SHEET: 13

Bar Measures 1 inch

EROSION CONTROL NOTES

1. GENERAL

- a) THE CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL APPLICABLE STATE AND LOCAL REQUIREMENTS.
- b) EROSION AND SEDIMENT CONTROL BMPs IN ADDITION TO THOSE PRESENTED ON THE PLANS AND OUTLINED IN THE EROSION AND SEDIMENT CONTROL PLAN (ECP) OR STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE IMPLEMENTED AS NECESSARY TO PREVENT TURBID DISCHARGES FROM FLOWING ONTO ADJACENT PROPERTIES OR ROADWAYS, OFFSITE STORMWATER CONVEYANCES, OR OFFSITE RECEIVING WATERS. BMPs SHALL BE DESIGNED, INSTALLED, AND MAINTAINED BY THE SITE OPERATOR TO ENSURE THAT OFF SITE SURFACE WATER QUALITY REMAINS CONSISTENT WITH STATE AND LOCAL REGULATIONS. [THE OPERATOR IS THE ENTITY THAT OWNS OR OPERATES THE CONSTRUCTION ACTIVITY AND HAS AUTHORITY TO CONTROL THOSE ACTIVITIES AT THE PROJECT NECESSARY TO ENSURE COMPLIANCE.]
- c) OFF SITE SURFACE WATER DISCHARGES WITH TURBIDITY IN EXCESS OF 29 NEPHELOMETRIC TURBIDITY UNITS (NTU'S) ABOVE BACKGROUND LEVEL SHALL BE IMMEDIATELY CORRECTED. SUCH INCIDENTS SHALL BE REPORTED TO WATER RESOURCES WITHIN 24 HOURS OF THE OCCURRENCE (PH: 941.861.5000; FAX: 941.861.0986). THE REPORT SHALL INCLUDE THE CAUSE OF THE DISCHARGE AND CORRECTIVE ACTIONS TAKEN.
- d) THE OPERATOR SHALL ENSURE THAT ADJACENT PROPERTIES ARE NOT IMPACTED BY WIND EROSION, OR EMISSIONS UNCOMFIRMED PARTICULATE MATTER IN ACCORDANCE WITH RULE 62-296.320(4)(c), F.A.C., BY TAKING APPROPRIATE MEASURES TO STABILIZE AFFECTED AREAS.
- e) FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ENTER STORMWATER DRAINS OR WATERBODIES, OR FUEL AND OTHER PETROLEUM PRODUCT SPILLS THAT ARE IN EXCESS OF 25 GALLONS SHALL BE CLEANED UP, AND IMMEDIATELY REPORTED TO WATER RESOURCES (PH: 941.861.5000; FAX: 941.861.0986). SMALLER GROUND SURFACE SPILLS SHALL BE CLEANED UP AS SOON AS PRACTICAL.

2. WETLAND PROTECTION

- a) AREAS OF CONSTRUCTION ADJACENT TO WETLANDS, THE FOLLOWING SHALL BE PERFORMED:
 - a) THE ACTUAL WETLAND AND REQUIRED BUFFERS, AS SHOWN ON THE PLANS, MUST BE ESTABLISHED AND ROPED OFF PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY ADJACENT TO SAID AREAS.
 - b) PRIOR TO THE PLACEMENT OF ANY FILL MATERIAL ADJACENT TO WETLANDS OR BUFFER AREAS, A SILTATION BARRIER SHALL BE CONSTRUCTED.
 - c) NO RM DITCHING OF THE WETLANDS SHALL BE PERFORMED. WATER LEVELS IN THE WETLANDS SHALL BE MAINTAINED ACCORDING TO LEVELS EXISTING PRIOR TO SITE DISTURBANCE.
 - d) IN AREAS OF WETLANDS IN WHICH WORK IS TO BE PERFORMED, SUCH AREAS MUST BE CLEARLY STAKED AND ROPED OFF. ALONG SUCH LIMITS, A SILTATION BARRIER MUST BE CONSTRUCTED.
 - e) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF BARRIERS. BARRIERS SHALL REMAIN IN PLACE UNTIL ALL AREAS ARE STABILIZED.
 - f) THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY UPON DISTURBANCE OF WETLAND AREAS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ALL PROTECTED AREAS.
 - g) AREAS WHERE IMPACTS WILL BE PERFORMED SHALL BE STRIPPED OF EXISTING MATERIAL AND STOCKPILED FOR USE IN THE RE-CREATION OF THE DISTURBED AREAS OR IN LITTORAL ZONES.

3. EARTH MOVING ACTIVITIES

- a) THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE THE NATURAL LANDSCAPE AND SHALL PLAN CONSTRUCTION OPERATIONS SO AS TO PREVENT ANY UNNECESSARY DESTRUCTION, SCARRING, OR DEFACING OF THE NATURAL SURROUNDINGS. EXCEPT WHERE CLEARING IS REQUIRED FOR PERMANENT WORK, FOR APPROVED CONSTRUCTION ROADS, OR FOR EXCAVATION OPERATIONS, ALL TREES, NATIVE SHRUBBERY AND VEGETATION SHALL BE PRESERVED AND SHALL BE PROTECTED FROM DAMAGE WHICH MAY BE CAUSED BY THE CONTRACTOR'S CONSTRUCTION OPERATIONS AND EQUIPMENT.
- b) THE FIRST STAGE OF THE EARTH MOVING ACTIVITY SHALL BE CONFINED TO THE EXCAVATION OF THE STORMWATER FACILITY.
- c) TOPSOIL SHOULD BE TAKEN FROM THE CONSTRUCTION AREAS AND SHOULD BE STOCKPILED FOR REUSE IN FINISHED GRADING. STOCKPILES SHOULD BE PLACED SO AS NOT TO ADD ANY ADDITIONAL SEDIMENT TO THE CONSTRUCTION.
- d) GRADED AREAS ARE TO BE SODDED WITHIN THIRTY (30) DAYS FOLLOWING EARTH MOVING PROCEDURES.
- e) TEMPORARY DIVERSION BERMS AND/OR BARRIERS SHALL BE REMOVED ONLY AFTER THE CONSTRUCTION OF THOSE AREAS DIRECTED TO THE BERMS AND/OR BARRIERS HAVE BEEN COMPLETED.
- f) THE SILT COLLECTION PONDS SHOULD BE REMOVED AND/OR REGRADED FOR PERMANENT USE, AS THE FINAL GRADING AND SODDING OVERLAP THE AREA USED BY SAME.

4. FILLS

- a) LAND TO BE CUT OR FILLED SHOULD BE CLEARED OF TREES, STUMPS, ROOTS, BRUSH, BOULDERS, SOD AND DEBRIS.
- b) FILL AREAS SHOULD BE SCARIFIED, KEYED AND DRAINED.
- c) FILL MATERIAL SHOULD BE FREE OF SOD, ROOTS, OR OTHER DECOMPOSABLE MATERIAL.
- d) THE PLACING AND SPREADING OF FILL MATERIAL SHOULD BE STARTED AT THE LOWEST POINT.
- e) GENERALLY, A 6:1 SLOPE SHOULD BE USED UNLESS SPECIFIC ENGINEERING DATA SHOWS A STEEPER SLOPE. SLOPES OF 4:1 OR FLATTER ARE DESIRABLE FOR EROSION CONTROL AND MAINTENANCE.
- f) FILLS SHOULD BE SODDED IMMEDIATELY UPON COMPLETION OF EARTH PLACEMENT.
- g) WATER MANAGEMENT SYSTEMS SHOULD BE PROVIDED TO PREVENT WATER CONCENTRATION AND ERODING THE FACE OF THE SLOPE. KEEP SURFACE WATER OFF THE FACE OF THE SLOPE.

5. CUTS

- a) DIVERSIONS SHOULD BE CONSTRUCTED AT TOP OF THE SLOPES PRIOR TO CUTTING OPERATIONS TO CONVEY WATER FROM FACE OF SLOPE.
- b) STEEPNESS OF CUTS WILL DEPEND ON SOIL TYPE AND DESIGN; HOWEVER, CUT SLOPES OF 4:1 OR FLATTER ARE DESIRABLE FOR EROSION CONTROL AND STABILITY.
- c) CUT SLOPES SHOULD BE SODDED IMMEDIATELY AFTER REMOVAL OF EARTH.

6. TEMPORARY SEDIMENT BASIN AND PERMANENT STORMWATER BASINS

- a) **SITE PREPARATION:** AREAS UNDER THE EMBANKMENT AND ANY STRUCTURAL WORKS SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIALS. IN ORDER TO FACILITATE CLEAN-OUT AND RESTORATION, THE POOL AREA (MEASURED AT THE TOP OF THE SPILLWAY) WILL BE CLEARED OF ALL BRUSH AND TREES.
- b) **CUT-OFF TRENCH:** A CUT-OFF TRENCH, WHEN POND DEPTHS ARE IN EXCESS OF THREE FEET, SHALL BE EXCAVATED ALONG THE CENTERLINE OF EARTH FILL EMBANKMENTS. THE MINIMUM DEPTH SHALL BE TWO FEET. THE CUT-OFF TRENCH SHALL EXTEND UP BOTH ABUTMENTS TO THE RISER CREST ELEVATION. THE MINIMUM BOTTOM DEPTH SHALL BE ENOUGH TO PERMIT OPERATION OF EXCAVATION AND COMPACTION EQUIPMENT. THE SIDE SLOPES SHALL BE NO STEEPER THAN 1:1. COMPACTION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR THE EMBANKMENT. THE TRENCH SHALL BE DEWATERED DURING THE BACKFILLING-COMPACTION OPERATIONS.
- c) **EMBANKMENT:** THE FILL MATERIAL SHALL BE TAKEN FROM APPROVED BORROW AREAS. IT SHALL BE CLEAN, FREE OF ROOTS, WOODY VEGETATIONS, OVER-SIZED STONES, ROCKS OR OTHER OBJECTIONABLE MATERIAL AREAS ON WHICH FILL IS TO BE PLACED SHALL BE SCARIFIED PRIOR TO PLACEMENT OF FILL. FILL MATERIAL SHALL BE PLACED IN SIX TO EIGHT INCHES THICK CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL. COMPACTION SHALL BE OBTAINED BY ROUTING HAULING EQUIPMENT OVER THE FILL SO THAT THE ENTIRE SURFACE OF EACH LAYER OF THE FILL IS TRAVERSED BY AT LEAST ONE WHEEL OF TREAD TRUCK OF THE EQUIPMENT OR BY THE USE OF A COMPACTOR. THE EMBANKMENT SHALL BE CONSTRUCTED TO AN ELEVATION OF 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLEMENT IF COMPACTION IS OBTAINED WITH HAULING EQUIPMENT. IF COMPACTORS ARE USED FOR COMPACTION, THE OVERBUILD MAY BE REDUCED TO NOT LESS THAN 5%.

- d) **PIPE SPILLWAYS:** THE RISER SHALL BE SECURELY ATTACHED TO THE BARREL OF THE OUTFALL PIPE. THE BARREL AND RISER SHALL BE PLACED ON A FIRM, SMOOTH SOIL FOUNDATION. THE CONNECTION BETWEEN THE RISER AND RISER BASE SHALL BE WATERTIGHT. THE FILL MATERIAL AROUND THE PIPE SPILLWAY SHALL BE PLACED IN FOUR INCH LAYERS AND COMPACTED UNDER THE SHOULDERS AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. HAND COMPACTED BACKFILL SHALL BE PLACED OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT.
- e) **EROSION POLLUTION CONTROL:** CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION ABATEMENT SHALL BE COMPLIED WITH.

7. MAINTENANCE

- a) REPAIR ALL DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION EQUIPMENT AT OR BEFORE THE END OF EACH WORK DAY.
- b) SEDIMENT SHALL BE REMOVED FROM SUMP AREAS. THE SEDIMENT SHALL BE PLACED IN SUCH A MANNER THAT IT WILL NOT ERODE FROM THE SITE. THE SEDIMENT SHALL NOT BE DEPOSITED DOWNSTREAM FROM THE EMBANKMENT OR IN OR ADJACENT TO A STREAM OR FLOOD PLAIN.
- c) AFTER CONSTRUCTION IS COMPLETED AND AREAS ARE SODDED, MAINTENANCE IS LIMITED TO VISUAL INSPECTIONS ON A ROUTINE BASIS. ANY DAMAGE TO THE BERM SHALL BE REPAIRED AT ONCE AND RE-SODDED. IF THE LEVEL OF WATER IS BEING MAINTAINED OVER THE EXPECTED DRAW DOWN TIME, THE OUTFALL SYSTEM SHALL BE CLEANED AND REPAIRED.

8. TURBIDITY

TURBIDITY SHOULD BE REDUCED TO BE NO MORE THAN 29 NTU'S ABOVE BACKGROUND LEVEL PRIOR TO DISCHARGE OFF SITE.

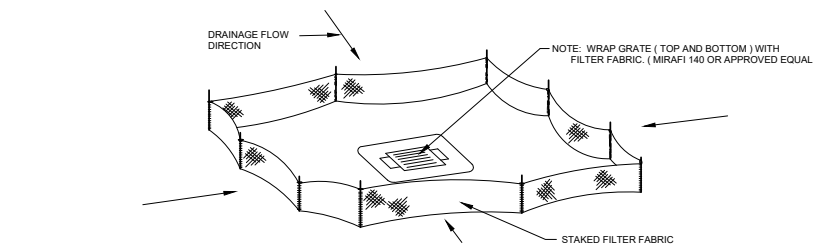
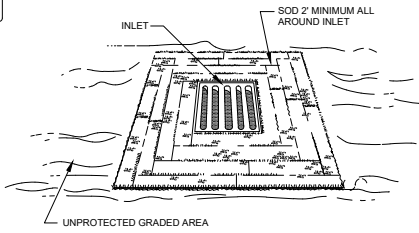
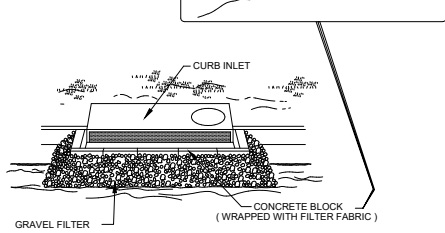
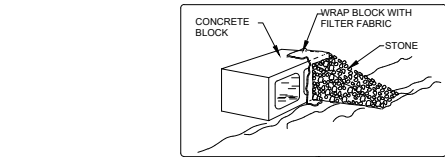
9. BMP INSPECTIONS

ALL BMP MUST BE INSPECTED WEEKLY OR AFTER EVERY 0.5 INCH. OF A RAINFALL EVENT AND ALL INSPECTION REPORTS MUST BE AVAILABLE FOR INSPECTION ON SITE.

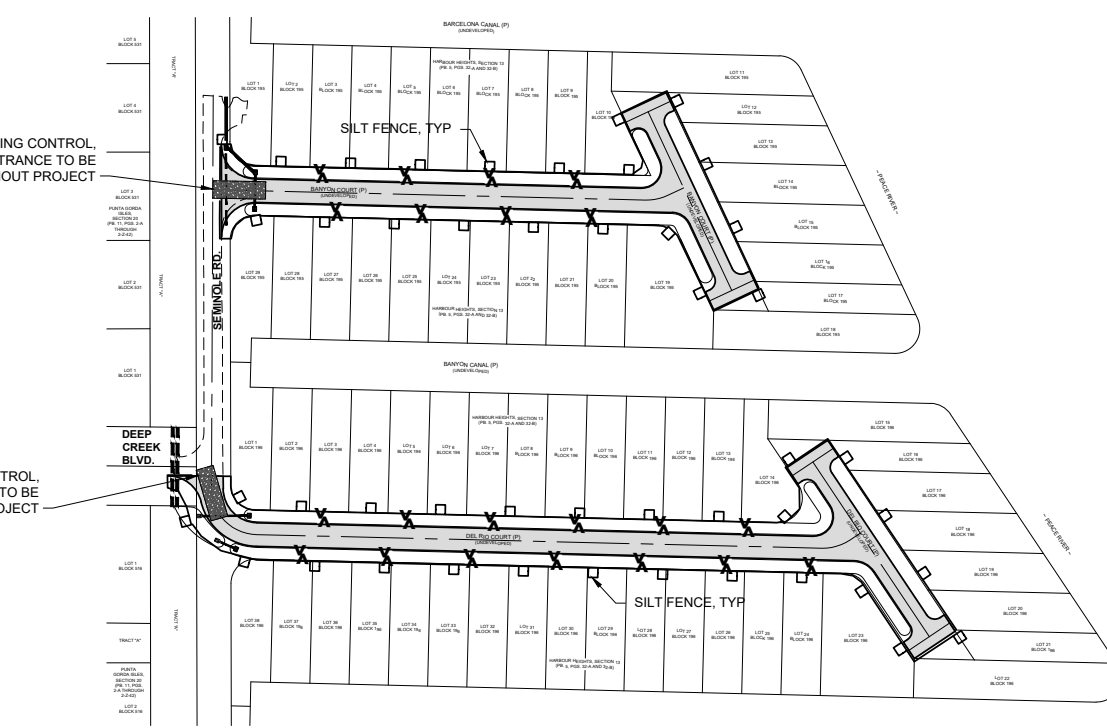
10. DISTURBING VEGETATION

MINIMIZE THE AREA OF DISTURBED VEGETATION AS MUCH AS POSSIBLE. NATURAL VEGETATION IS A GOOD BEST MANAGEMENT PRACTICE TO REDUCE TURBIDITY.

- 11. CONTRACTOR MUST FILE FOR A FDEP NOTICE OF INTENT (NOI) FOR CONSTRUCTION GENERAL PERMIT AND A NOTICE OF TERMINATION (NOT) WITHIN 14 DAYS OF CONSTRUCTION COMPLETION.

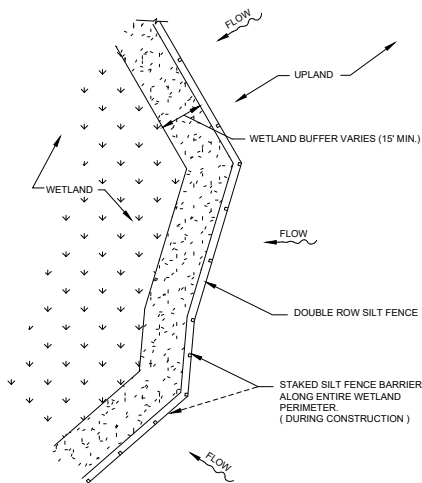


PROTECTION OF INLETS

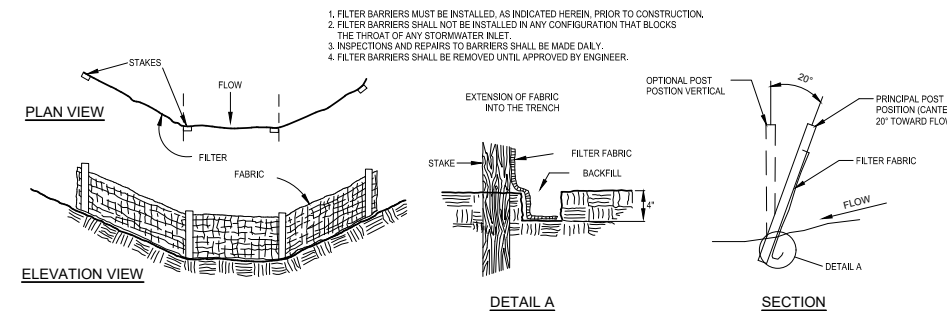


EROSION CONTROL PLAN

NTS

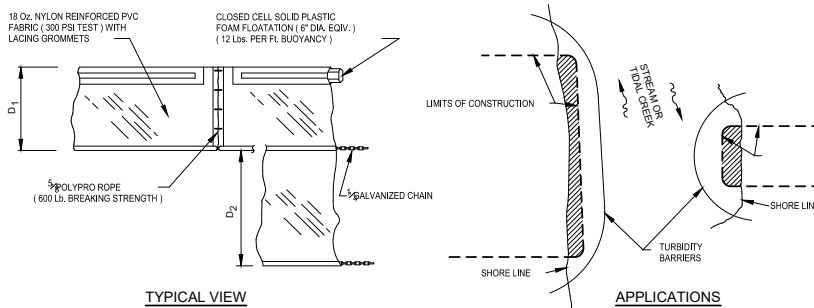


WETLAND PROTECTION



STAKED SILT BARRIER

(DURING CONSTRUCTION ONLY)

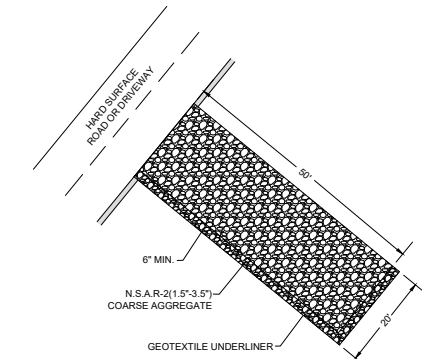


TYPICAL VIEW

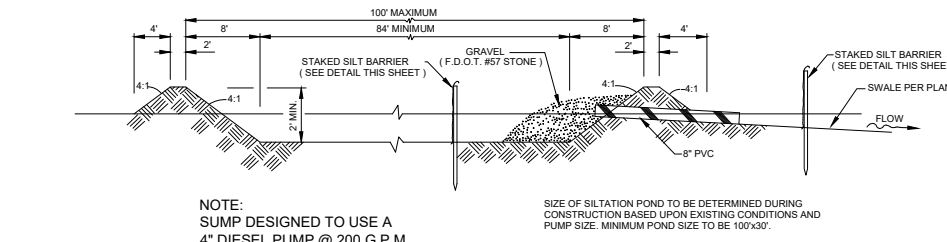
APPLICATIONS

- NOTES:**
- 1. D = 5' STANDARD (SINGLE PANEL FOR DEPTH 5' OR LESS | D = 5' STANDARD (ADDITIONAL PANEL FOR DEPTHS > 5'). CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO (2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.
 - 2. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH WHEN ADJACENT TO CONSTRUCTION ACTIVITIES.
 - 3. NUMBER AND SPACING OF ANCHORS DEPENDENT ON WATER VELOCITIES.
 - 4. BARRIERS TO REMAIN IN PLACE UNTIL APPROVED FOR REMOVAL BY ENGINEER.

FLOATING TURBIDITY BARRIER



SOIL TRACKING CONTROL DETAIL



SILTATION POND DETAILS

(REQUIRED DURING DEWATERING FOR SUMP EXCAVATION ONLY)

NOTE: SUMP DESIGNED TO USE A 4\"/>

SIZE OF SILTATION POND TO BE DETERMINED DURING CONSTRUCTION BASED UPON EXISTING CONDITIONS AND PUMP SIZE. MINIMUM POND SIZE TO BE 100'x30'.

21/09/2025 2:35:47 PM - P:124-0703 - PEACE RIVER (HEATON)DESIGN/CADD/PLAN SET114_BEST MANAGEMENT PRACTICES.DWG - STEVEN MAYNARD

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Project No.:	24-0703
Project Manager:	G W B
Project Engineer:	G W B
Project Designer:	-
Checked By:	-
Approved By:	G W B

PEACE RIVER SUBDIVISION
BEST MANAGEMENT PRACTICES
 SECTION 02, TOWNSHIP 40 SOUTH, RANGE 23 EAST
 FLORIDA

Gary W. Boyne, P.E.
 State of Florida, Professional Engineer
 License No. 62474
 This item has been digitally signed and sealed by Gary W. Boyne, P.E. on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DATE: **MAY, 2024**
 SURVEY DATUM: **NAVD 88**
 PROJECT No.: **24-0703**
 SHEET: **14**

Bar Measures 1 inch