COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

PLANS PREPARED FOR:

C.O.T. WORK ORDER NO. 1057273 (PUTNAM)

C.O.T WORK ORDER NO. 15062 (COUNTRY CLUB CREEK)

ORANGE AVE

APACHE ST

COCHRAN DE

KENDALL DR

MILLARD ST

COBLE DE



RERKINS \$T

LEWISST

COUNTRY CLUB CREEK STATION 21+68.27

STATION EQUATION
STATION 24+62.84
PUTNAM DRIVE
= STATION 17+81.57
COUNTRY CLUB CREEK

PUTNAM DRIVE STATION 21+00.00

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GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED FY 2017-18 AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2018, AS AMENDED BY CONTRACT DOCUMENTS.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

BEGIN BL-CONST COUNTRY CLUB CREEK
STATION 10+00.00

LOCATION MAP

NORTH AMERICAN VERTICAL DATUM OF 1988

LYNNDALE ST

ASTLEWOOD DR

PLANS PREPARED BY:

EUTAW, INC

2822 REMINGTON GREEN CIRCLE, SUITE 202 TALLAHASSEE, FLORIDA 32308 (850) 383-0400 WWW.EUTAWINC.COM

CERTIFICATE OF AUTHORIZATION #9961

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SHEET DESCRIPTION

PUTNAM DRIVE STATION 48+10.83

PROJECT LOCATION

ENGINEERS OF RECORD:

ELEA LOLA

> LANE P. LUCAS, P.E. FLORIDA PE #53936 ROADWAY, SIDEWALK, DRAINAGE, SPM

> > BRIAN KEVER, P.E. FLORIDA PE #65627 STRUCTURAL (SHEETS T1-T5)

STEPHEN SHANLEY, P.E. FLORIDA PE #40653 GEOTECHNICAL (SHEETS 63-64) APPROVED FOR CONSTRUCTION

 $\frac{\textit{Thomas L Napier, PE}}{\text{STORMWATER MANAGEMENT DIVISION}}$ $\frac{\textit{March 6, 2019}}{\text{DATE: }}$

Eric Houge, PE

DATE: March 6, 2019 SET NO.: ____

SET NO .: _

REVISIONS									
DESCRIPTION	BY	DATE							

\Putnam Drive\dwg\KEY SHEET.dwg

ojects\COT Public Works\Putnam Drive\dwg\KEY S



GENERAL NOTES

- THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS IN-HAND PRIOR TO BEGINNING CONSTRUCTION, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE PERMITS OBTAINED BY THE CITY AND THOSE PERMITS OBTAINED BY THE CONTRACTOR
- AT LEAST THREE CALENDAR DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE; THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A TENTATIVE BASE CONSTRUCTION SCHEDULE, A PRECONSTRUCTION SURVEY, A TRAFFIC CONTROL PLAN, AND A SEDIMENT AND EROSION CONTROL PLAN. NO WORK SHALL BEGIN PRIOR TO APPROVAL OF THE CONSTRUCTION SCHEDULE, PRECONSTRUCTION SURVEY, TRAFFIC CONTROL PLAN, AND SEDIMENT AND EROSION CONTROL PLAN.
- THE CONSTRUCTION SCHEDULE SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION IS TO BE PHASED, ESTABLISH START AND FINISH DATES FOR ALL SIGNIFICANT CONSTRUCTION ACTIVITIES, AND IDENTIFY ALL CONTROLLING ITEMS OF WORK, THE SCHEDULE IS TO BE APPROVED BY THE ENGINEER, AND SHALL BE UPDATED ON A MONTHLY BASIS TO REFLECT ACTUAL WORK PROGRESS. THE UPDATED SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER NO LATER THAN THREE DAYS PRIOR TO EACH SCHEDULED MONTHLY PROGRESS MEETING. PAYMENT FOR PREPARING, UPDATING AND SUBMITTING THE SCHEDULE SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- THE PRECONSTRUCTION SURVEY SHALL VERIFY THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER AND SHALL ALSO ESTABLISH THE LOCATION AND DESCRIPTION OF ALL ADDITIONAL REFERENCE POINTS AND THE LOCATIONS, DESCRIPTIONS, AND ELEVATIONS OF ALL ADDITIONAL BENCHMARKS TO BE USED IN CONSTRUCTING THE PROJECT. THE SURVEY SHALL BE SIGNED AND SEALED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA SIGNIFICANT INCONSISTENCIES RETWEEN THE FIELD NOTES AND THE CONTROL POINTS AND BENCH MARK ELEVATIONS PROVIDED BY THE ENGINEER SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO ISSUANCE OF THE NOTICE TO PROCEED. PAYMENT SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- THE GEOTECHNICAL INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THIS INFORMATION MAY NOT ACCURATELY REFLECT ACTUAL SOIL CONDITIONS AS TO THE DEPTH, EXTENT OR CHARACTER OF THE MATERIAL TO BE ENCOUNTERED IN CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE SUCH EXAMINATION OF THE SITE OF THE WORK AS MAY BE NECESSARY TO DETERMINE THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED.
- THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING ALL PROPERTY CORNERS AND MONUMENTS SHOWN ON THE DRAWINGS OR FOUND DURING CONSTRUCTION. IF A PROPERTY CORNER OR MONUMENT IS DESTROYED OR DISTURBED. THE CONTRACTOR WILL HAVE IT REPLACED AND CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER REGISTERED IN THE STATE OF FLORIDA. ALL COSTS FOR PRESERVING, REPLACING AND CERTIFYING PROPERTY CORNERS AND MONUMENTS WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- ANY NATIONAL GEODETIC SURVEY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION MUST BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER

EDEP BUREAU OF SURVEY AND MAPPING MS 100 3900 COMMONWEALTH BLVD TALLAHASSEE, FLORIDA 32399 (850) 245-2572 (FAX)

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON INFORMATION PROVIDED BY THE UTILITY OWNERS AVAILABLE RECORDS AND SURVEYED FIELD INFORMATION. THE INFORMATION MAY NOT REFLECT ACTUAL CONDITIONS INCLUDE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, OR SHOW THE UTILITIES IN THE AREA AREA. TYPE AND LOCATION OF THEIR FACILITIES. THE LIST MAY NOT INCLUDE ALL UTILITIES IN THE AREA.

SUNSHINE STATE ONE-CALL OF FLORIDA 8II OR 800-432-4770 (5 DAYS NOTIFICATION PRIOR TO CONSTRUCTION) CITY OF TALLAHASSEE/ELECTRICAL UTILITY ITY OF TALLAHASSEE/GAS UTILITY CITY OF TALLAHASSEE/WATER UTILITY 850-891-6107 CITY OF TALLAHASSEE/SEWER UTILITY 850-891-6107 COMCAST (CABLE TELEVISION) 850-574-4060 CENTURYLINK (TELEPHONE) 850-599-1502 SOUTHERN LIGHT (COMMUNICATIONS) 251-662-1170

- PRIOR TO ANY SCHEDULED INTERRUPTION OF UTILITY SERVICE, THE CONTRACTOR SHALL COORDINATE SUCH INTERRUPTION WITH THE UTILITY PROVIDER AND SHALL PROVIDE A MINIMUM 24-HOUR NOTICE TO THE AFFECTED PARTIES. IN THE CASE OF A WATER MAIN SHUT DOWN, A MINIMUM 24-HOUR NOTICE ALSO SHALL BE PROVIDED TO THE TALLAHASSEE FIRE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE FLECTRIC UTILITY A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION IN THE VICINITY OF THEIR FACILITIES.
- THE CONTRACTOR SHALL NOTIFY THE GAS UTILITY (850-89I-5100) A MINIMUM OF TWO WORKING DAYS PRIOR TO ANY EXCAVATION IN THE VICINITY OF GAS MAINS, AS REQUIRED BY CHAPTER 77-153 OF THE FLORIDA STATUTES. A GAS DEPARTMENT INSPECTOR WILL BE ON SITE WHEN WORK ACTIVITIES TAKE PLACE NEAR GAS MAINS. A MINIMUM OF 72 HOURS NOTICE SHALL BE PROVIDED FOR ANY
- ALL UTILITIES IN CONFLICT WITH CONSTRUCTION ARE TO BE ADJUSTED OR RELOCATED BY OTHERS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR DIRECTED BY THE ENGINEER
- 12. WHERE THE REQUIRED MINIMUM SEPARATION BETWEEN UTILITIES IS SPECIFIED. THE DISTANCE SHALL BE MEASURED FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- 13. LIMITS OF CONSTRUCTION ARE DEFINED IN THE PLANS AND CONSIST OF ROADWAY RIGHTS-OF-WAY, CITY OF TALLAHASSEE PROPERTIES, DRAINAGE RIGHTS-OF-WAY, PERMANENT DRAINAGE AND/OR UTILITY EASEMENTS, AND TEMPORARY CONSTRUCTION EASEMENTS.
- NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT
- 15 ALL EXISTING DRAINAGE STRUCTURES AND PIPES PAVEMENT SIDEWALKS CURRS ETC. WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN LINIESS OTHERWISE NOTED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER. ALL DRAINAGE STRUCTURES, PIPES, PAVEMENT, SIDEWALKS, CURBS, ETC., THAT ARE TO REMAIN THAT ARE DAMAGED DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED WITH THE SAME TYPE AND MATERIAL AT NO COST TO THE CITY.
- 16. ALL STORM MANHOLES OR STRUCTURES DESIGNATED TO BE ABANDONED IN PLACE SHALL BE REMOVED TO A MINIMUM OF THREE FEET BELOW GRADE AND FILLED WITH COMPACTED SAND
- 17. EXISTING CONCRETE AND ASPHALTIC CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE SAW-CUT AS REQUIRED FOR CONSTRUCTION.
- 18. ALL SIDEWALKS AND CURB RAMPS REMOVED DURING CONSTRUCTION SHALL BE RECONSTRUCTED TO MEET CURRENT ADA STANDARDS
- 19. THE CONTRACTOR SHALL PUT FORTH EVERY REASONABLE EFFORT TO MINIMIZE DISRUPTION AND DISTURBANCE OF ADJACENT PROPERTIES. ACCESS BY PROPERTY OWNERS AND RESIDENTS TO THEIR PROPERTY SHALL BE MAINTAINED AT ALL TIMES, AND ANY BARRICADING OF ACCESS MUST BE COORDINATED WITH THE AFFECTED PROPERTY OWNERS AND RESIDENTS
- 20. ALL FENCES IN CONFLICT WITH CONSTRUCTION SHALL BE REMOVED AND REPLACED IN THEIR ORIGINAL LOCATIONS OR IN OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY AT HIS OPTION LISE NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED OR REUSE THE FENCING MATERIAL THAT WAS REMOVED IF IT IS UNDAMAGED BY CONSTRUCTION ACTIVITIES, ALL FENCES DAMAGED BY CONSTRUCTION ACTIVITIES ARE TO BE REPLACED WITH NEW FENCING MATERIAL OF THE SAME TYPE THAT WAS REMOVED.
- THE CONTRACTOR SHALL EXERCISE DUE CARE IN THE REMOVAL OF EXISTING FENCES TO MAINTAIN SECURITY AT THE AFFECTED PROPERTIES AND TO ENSURE THE SAFETY OF PETS. ANIMALS AND CHILDREN. IF IN THE OPINION OF THE ENGINEER, REMOVAL OF A FENCE WILL RESULT IN AN UNACCEPTABLE REDUCTION IN SECURITY OR SAFETY, THE CONTRACTOR SHALL INSTALL A TEMPORARY FENCE AS DIRECTED BY THE ENGINEER PRIOR TO REMOVAL OF THE EXISTING FENCE. THE TEMPORARY FENCE SHALL REMAIN IN PLACE UNTIL THE PERMANENT FENCE IS INSTALLED.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL TREES AND LANDSCAPING ON ADJACENT PROPERTIES, AND WILL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION ON PROPERTIES ADJACENT TO CONSTRUCTION WORK ZONES, ALL TREES WITHIN THE LIMITS OF CONSTRUCTION THAT ARE NOT IDENTIFIED ON THE PLANS TO BE REMOVED SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICABLE. TREE PROTECTION BARRICADES SHALL BE INSTALLED AND MAINTAINED AROUND ALL TREES THAT ARE TO BE PROTECTED AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE
- 23. THE CONTRACTOR SHALL NOT DISTURB GRASSING OR LANDSCAPING OUTSIDE CONSTRUCTION WORK ZONES. THE CONTRACTOR SHALL BE SOLELY LIABLE FOR DAMAGE TO VEGETATION OUTSIDE CONSTRUCTION WORK ZONES AND SHALL RESTORE AT NO COST TO THE CITY ANY AREAS THAT ARE DAMAGED INCLUDING AREAS WITHIN THE LIMITS OF CONSTRUCTION OR ON ADJACENT PROPERTIES USING, TO THE EXTENT PRACTICABLE. THE SAME TYPES AND SIZES OF PLANT MATERIAL THAT EXISTED PRIOR TO CONSTRUCTION.
- 24. THE LOCATION AND CONSTRUCTION OF MAILBOXES SHALL BE IN CONFORMANCE WITH THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE. WHEN A MAILBOX IN CONFLICT WITH CONSTRUCTION IS REMOVED, THE CONTRACTOR SHALL FURNISH AND INSTALL A TEMPORARY MAILBOX AND SHALL MAINTAIN THE TEMPORARY MAILBOX UNTIL A NEW MAILBOX IS INSTALLED. THE CONTRACTOR SHALL CONSTRUCT A NEW MAILBOX TO MATCH, AS CLOSE AS PRACTICABLE, THE LOCATION, TYPE, SIZE, MATERIAL, AND COLOR OF THE ORIGINAL MAILBOX. IN LIEU OF CONSTRUCTING A NEW MAILBOX, THE EXISTING MAILBOX MAY BE REUSED IF IT MEETS THE RULES AND REGULATIONS OF THE UNITED STATES POSTAL SERVICE AND IS FUNCTIONALLY SOUND.
- 25. DISTURBED AREAS SHALL BE COMPACTED (AT A MINIMUM) EQUAL TO ADJACENT UNDISTURBED GROUND EXCEPT WHEN OTHERWISE SPECIFIED
- 26. PROPERTIES ADJACENT TO WORK ZONES SHALL BE GRADED TO DRAIN WITHIN THE LIMITS OF CONSTRUCTION
- ALL DISTURBED AREAS WITHIN CONSTRUCTION WORK ZONES ARE TO BE GRASSED EXCEPT FOR AREAS THAT ARE LANDSCAPED, PAVED, OR BELOW NORMAL WATER LEVEL, EXISTING GRASSED AREAS SHALL BE REPLANTED WITH SOD OF THE SAME GRASS TYPE AS EXISTING, UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. CENTIPEDE SOD WILL BE USED FOR DISTURBED AREAS NOT CURRENTLY GRASSED. REINFORCEMENT MAT SHALL BE INSTALLED BENEATH SOD PLACED ON SLOPES OF 2H:IV OR STEEPER, AND THE SOD SHALL BE STAPLED. COSTS FOR REINFORCEMENT MAT, STAPLING, FERTILIZING, AND WATERING SHALL BE INCLUDED IN THE UNIT PRICE OF THE PAY ITEM FOR PERFORMANCE TURF.

SUPPLEMENTAL GENERAL NOTES

- 3DS, INC. PROVIDED PORTIONS OF THE TOPOGRAPHY, BENCHMARKS, RIGHTS-OF-WAY AND UTILITY LOCATION THE COUNTRY CLUB CREEK PORTION OF THIS PROJECT. CITY OF TALLAHASSEE SURVEYING PROVIDED SUPPLEMENTAL RIGHT-OF-WAY AND PROPERTY SURVEYS FOR THE COUNTRY CLUB CREEK PORTION OF THE PROJECT. CITY OF TALLAHASSEE SURVEYING PROVIDED THE TOPOGRA BENCHMARKS, RIGHTS-OF-WAY AND UTILITY LOCATION INFORMATION FOR THE PUTNAM DRIVE SIDEWALK PORTION OF THE PROJECT. ELEVATIONS FROM ALL SURVEYS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 2 THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL VALVE BOXES ON GAS AND WATER MAINS WITHIN THE LIMITS OF CONSTRUCTION THAT ARE TO REMAIN IN SERVICE PRIOR TO COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES WITHIN CONSTRUCTION AREAS SO THE TOPS ARE FLUSH WITH FINISHED PAVEMENT OR WITH FINISHED GRADE IN UNPAVED AREAS.
- ALL PLIMPS LISED FOR DEWATERING AND RYPASS PLIMPING WILL BE SCREENED FROM RESIDENTIAL VIEW AND ENCLOSED TO REDLICE NOISE DURING OPERATION. AT NO TIME SHALL PLIMPS BE PLACED THIN A RESIDENTIAL YARD OR 50 FEET OF A HOME WITHOUT APPROVAL FROM THE CITY. PAYMENT FOR SCREENING AND ENCLOSURE SHALL BE INCLUDED IN THE COST FOR CLEARING AND GRUBBING.

GENERAL NOTES FOR STORMWATER CONSTRUCTION

- ALL NEW OR REPLACEMENT STORM DRAINS OR CULVERTS SHALL BE CLASS III STEEL REINFORCED CONCRETE PIPE IN ACCORDANCE WITH STANDARD SPECIFICATION 449-4 OR FDOT APPROVED POLYPROPYLENE PIPE UNLESS NOTED OTHERWISE ON THE DRAWINGS. WHEN THE PLANS DESIGNATE A TYPE OF PIPE. THE CONTRACTOR MAY USE ONLY THE TYPE DESIGNATED. THE CONTRACTOR SHALL NOT USE A TYPE OF PIPE NOT DESIGNATED ON THE DRAWINGS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER. ALL PIPES SHALL BE CUT FLUSH WITH INSIDE OF DRAINAGE STRUCTURE
- 2. ALL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING SELECT BEDDING MATERIAL TO PROVIDE A FOUR-INCH MINIMUM DEPTH FOUNDATION BENEATH THE BARREL OF THE PIPE AND FOR BACKFILL UP TO THE SPRINGLINE (CENTER) OF THE PIPE. BACKFILL AROUND POLYPROPYLENE PIPE SHALL BE IN ACCORDANCE WITH THE MANUFACTURERÜS SPECIFICATIONS
- ALL JOINTS OF CONCRETE PIPES, CULVERTS, AND STORM SEWERS SHALL HAVE A FILTER FABRIC JACKET AS DETAILED ON STANDARD INDEX NO. 280, UNLESS NOTED OTHERWISE ON THE DRAWINGS OR
- ALL PIPE CULVERTS AND STORM SEWERS 48-INCHES OR LESS IN DIAMETER SHALL BE VIDEO TAPED IN ACCORDANCE WITH SECTION 430-4.8 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 5. ALL CURB INLETS, DITCH BOTTOM INLETS, AND MANHOLES SHALL HAVE TRAFFIC BEARING FRAMES AND COVERS OR GRATES MEETING HS-20 LOADING REQUIREMENTS UNLESS OTHERWISE SHOWN ON
- 6. ALL STORM DRAIN COVERS SHALL BE TYPE USF TJ (U.S. FOUNDRY NO. 8017195), NPRI5-728 (EJ GROUP COVER NO. 3062A2), OR APPROVED EQUAL
- 7. ALL TYPE J STRUCTURE BOTTOMS SHALL HAVE A MINIMUM 6'-0" WALL HEIGHT WHEN POSSIBLE.
- 8. ALL GRATES SHALL BE CHAINED AND LOCKED IN ACCORDANCE WITH STANDARD INDEX NO. 201, COST OF EYEBOLTS AND CHAIN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STRUCTURES.
- 9. UTILITIES IN CONFLICT WITH THE INSTALLATION OF A NEW STORM DRAIN ARE TO BE ADJUSTED OR RELOCATED TO ELIMINATE THE CONFLICT. IF THE CONFLICT CANNOT BE REASONABLY AVOIDED, A CONFLICT STRUCTURE WITH ACCESS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD INDEX NO. 307 WITH THE EXCEPTION THAT FOR UTILITY CONFLICT CONDITION II (PRESSURE OR FLUID CARRIER INSTALLATIONS), A CARRIER PIPE IS NOT REQUIRED IF DUCTILE IRON PIPE IS USED FOR THE UTILITY AND NO PIPE JOINTS ARE LOCATED WITHIN THE CONFLICT STRUCTURE. "NOTCHING" OF A STORM DRAIN PIPE OR STRUCTURE TO ACCOMMODATE A UTILITY SHALL NOT BE ALLOWED. NO UTILITY SHALL BE INSTALLED THROUGH ANY PORTION OF A STORM DRAIN PIPE WITHOUT A CONFLICT

GENERAL NOTES FOR UTILITY CONSTRUCTION - POTABLE WATER

- I. ALL UTILITY RELOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF TALLAHASSEE UTILITY STANDARDS AND SPECIFICATIONS.
- 2. POTABLE WATER SERVICE WILL BE MAINTAINED TO RESIDENCES AND BUSINESSES AT ALL TIMES, EXCEPT DURING THE TRANSFER OF SERVICES.
- 3. KEEP FIRE HYDRANTS OPERABLE AND ACCESSIBLE AT ALL TIMES. DO NOT PLACE EQUIPMENT OR MATERIALS WITHIN 15 FEET OF ANY FIRE HYDRANT. FIRE HYDRANTS TAKEN OUT-OF-SERVICE SHALL BE COVERED WITH BAGS, OR AS DIRECTED BY THE CITY'S INSPECTOR. TO CLEARLY INDICATE THAT THE HYDRANT IS INSPERBLE. THE CONTRACTOR SHALL REPORT OUT OF SERVICE HYDRANTS TO THE CITY INSPECTOR FOR NOTIFICATION TO THE FIRE DEPARTMENT DISPATCH CENTER.
- A DO NOT CUIT CAP OR PLUG EXISTING LOOPED PUBLIC POTABLE WATER MAINS WITHOUT THE PRIOR APPROVAL OF THE CITY
- REPLACE ALL EXISTING SERVICES WITHIN THE CONSTRUCTION LIMITS, WHETHER SHOWN OR NOT, INSTALL NEW METER SETTINGS TO THE RIGHTS-OF-WAY LINES (UNLESS OTHERWISE NOTED). RECONNECT AND TEST ANY BACK FLOW DEVICES AND/OR PRESSURE REDUCING VALVES, AND RECONNECT TO THE CUSTOMERS' PLUMBING. WHERE THERE IS MORE THAN ONE METER AT A TAP, A NEW MANIFOLD WILL BE BUILT AND INSTALLED PER THE LATEST WATER DETAIL SHEET. IT IS THE CONTRACTOR'S RESPONSIBILITIES TO FIELD INSPECT AND DETERMINE THE LOCATION AND NUMBER OF
- 6. SET METER BOXES WITH ADEQUATE ROOM BEHIND THE METER TO REPAIR LEAKS WITHOUT DIGGING UP SIDEWALKS, PAVEMENT, WALLS, SPRINKLER LINES, ETC.; THERE WILL BE NO BOXES IN SWALES, UNDER DOWN SPOUTS, NEXT TO CONDENSATE DRAINS OR ANY OTHER SIMILAR SITUATION THAT MAY FILL THE BOX WITH WATER AND/OR MUD. NO STANDING WATER WILL BE ALLOWED IN METER BOXES

GENERAL NOTES FOR UTILITY CONSTRUCTION - WASTEWATER

- I. ALL UTILITY RELOCATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF TALLAHASSEE UTILITY STANDARDS AND SPECIFICATIONS.
- 2. MAINTAIN WASTEWATER COLLECTION SERVICE TO ALL CUSTOMERS AT ALL TIMES. PROVIDE WASTEWATER FLOW DIVERSION, AS NEEDED, TO MAINTAIN CONTINUOUS SANITARY SEWER SERVICE DURING CONSTRUCTION. WASTEWATER FLOW DIVERSION MAY CONSIST OF BY-PASS PUMPING, PUMPS, TRUCKS AND TRANSPORTATION; OR ANY OTHER METHOD APPROVED BY THE CITY
- 3. DISPOSE OF SANITARY SEWER STRUCTURES AND PIPING, WHICH ARE REMOVED TO CONSTRUCT NEW SANITARY SEWER FACILITIES. THE COST IS INCIDENTAL TO PAY ITEMS FOR NEW SANITARY
- EXISTING SANITARY SEWER PIPING AND STRUCTURES THAT ARE DESIGNATED ON THE PLANS TO BE PLACED OUT-OF-SERVICE (IN PLACE) SHALL BE PLUGGED AT INFLUENT AND EFFLUENT ENDS WITH MASONRY PLUGS UNLESS OTHERWISE NOTED. EXISTING STRUCTURES SHALL BE REMOVED THREE FEET BELOW FINISHED GRADE AND FILLED WITH EXCAVATABLE FLOWABLE FILL. THE COST IS INCIDENTAL TO PAY ITEMS FOR NEW SANITARY SEWER STRUCTURES AND PIPING
- SANITARY SEWER SERVICES THE PLANS SHOW APPROXIMATE LOCATIONS OF ACTIVE AND INACTIVE SEWER SERVICE LATERALS, BASED ON PIPELINE INSPECTIONS CONDUCTED BY THE CITY FIELD-VERIFY THE SIZE, MATERIAL AND LOCATION OF EXISTING ACTIVE SEWER LATERALS. ADJUST AND RECONNECT LATERALS AT THEIR FIELD-VERIFIED LOCATIONS AND SIZES, UNLESS OTHERWISE DIRECTED BY THE CITY. INSPECT ACTIVE PVC SEWER SERVICE LATERALS AND REPLACE IF NEEDED. TIE NEW SEWER SERVICE LATERALS TO EXISTING LATERALS WITH A CLEAN OUT AT THE PROPERTY LINE. PLUG INFLUENT AND EFFLUENT ENDS OF INACTIVE SEWER SERVICES WITH GROUT TO PLACE THEM OUT-OF-SERVICE.
- SANITARY SEWER LATERALS THAT ARE TO BE CONSTRUCTED MAY BE INSTALLED BY OPEN-CUT, PIPE BURSTING OR OTHER TECHNIQUES ACCEPTABLE TO THE CITY. THE BID PRICE SHALL BE FULL COMPENSATION FOR SUCH INSTALLATIONS, PIPE BURSTING REQUIRES PRE AND POST CONSTRUCTION TV INSPECTIONS.

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WALK COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

nd Water

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- 2. NO SEPARATE PAYMENT WILL BE MADE FOR FILTER FABRIC. THE COSTS FOR FILTER FABRIC SHALL BE INCLUDED IN THE UNIT PRICES FOR ANY ITEMS REQUIRING FILTER
- NO SEPARATE PAYMENT WILL BE MADE FOR VIDEO TAPING PIPE CULVERTS. THE COSTS FOR VIDEO TAPING ARE INCLUDED IN THE UNIT PRICES FOR PIPE CULVERT.
- ADDITIONAL QUANTITIES OF EROSION CONTROL AND/OR TREE PROTECTION ITEMS MAY BE NECESSARY AS DETERMINED DURING CONSTRUCTION BY THE CONTRACTOR, THE ENVIRONMENTAL INSPECTOR, OR BY THE ENGINEER AND MUST BE APPROVED BY THE ENGINEER.
- UNIT PRICES FOR PIPES, CULVERTS, SEWER PIPE AND WATER MAIN INCLUDE THE COSTS FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVAL OF 1.5 INCH MINIMUM THICKNESS OF ASPHALT PAVEMENT MILLINGS OR FINE TYPE SP ASPHALTIC CONCRETE AT THE GROUND SURFACE OF ALL PIPE AND BOX CULVERT TRENCHES IN PAVED AREAS FOR THE PURPOSE OF SEDIMENT AND EROSION CONTROL UNTIL THE FINAL PAVEMENT IS PLACED.

STORMWATER PAY ITEM NOTES:

101-1: MOBILIZATION

THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR PREPARATION OF AN APPROVED CONSTRUCTION PROGRESS SCHEDULE, AN APPROVED EROSION CONTROL PLAN, AN APPROVED TRAFFIC CONTROL PLAN, AN APPROVED DEWATERING PLAN, THE PRECONSTRUCTION SURVEY, PREPARING AND SUBMITTING APPROVED SHOP DRAWINGS, AND FURNISHING, INSTALLING, AND REMOVING THE PROJECT SIGNS.

102-1: MAINTENANCE OF TRAFFIC

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO IMPLEMENT THE APPROVED TRAFFIC CONTROL PLAN TO SAFELY MAINTAIN TRAFFIC AROUND OR THROUGH THE WORK ZONE NOT INCLUDED FOR PAYMENT UNDER OTHER RELATED PAY ITEMS, INCLUDING WARNING AND REGULATORY SIGNS, MESSAGE BOARDS, DRUMS, BARRICADES, CHANNELIZING DEVICES, TEMPORARY CONCRETE BARRIER WARNING LIGHTS, FLAGGERS, BUSINESS ENTRANCE SIGNS, MAINTENANCE OF EXISTING DRIVEWAYS, TEMPORARY PAVEMENT, AND REMOVAL AND REINSTALLATION OF EXISTING SIGNS IN CONFLICT WITH CONSTRUCTION AS DIRECTED BY THE ENGINEER. NO ADJUSTMENTS WILL BE MADE TO THE CONTRACT PRICE FOR INCREASES IN CONTRACT

102-70: TEMPORARY BARRICADE FENCE (ORANGE)

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY BARRICADE FENCE. THIS ITEM IS TO BE USED FOR PEDESTRIAN SAFETY, TREE PROTECTION, OR AS DIRECTED BY THE ENGINEER.

104-10-3: SEDIMENT BARRIER

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION AND MAINTENANCE OF SEDIMENT BARRIERS AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL. THE PRICE ALSO INCLUDES PERIODIC REMOVAL AND DISPOSAL OF ACCUMULATED SEDIMENT, AND REMOVAL AND DISPOSAL OFF-SITE OF SEDIMENT BARRIERS AT COMPLETION OF CONSTRUCTION.

104-11: FLOATING TURBIDITY BARRIER

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION AND MAINTENANCE OF FLOATING TURBIDITY BARRIER AS DESCRIBED IN THE "STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL".

104-15: SOIL TRACKING PREVENTION DEVICE

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY FOR THE INSTALLATION AND MAINTENANCE OF SOIL TRACKING PREVENTION DEVICES AS SHOWN ON THE PLANS AND/OR DESCRIBED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, INCLUDING EXCAVATION, GRADING, FILTER FABRIC, AND ROCK, THE PRICE ALSO INCLUDES REMOVAL AND DISPOSAL OFF-SITE OF ALL MATERIALS AT COMPLETION OF CONSTRUCTION, AND FURNISHING AND PLACING SUITABLE MATERIAL AS REQUIRED TO REPLACE EXCAVATED MATERIAL.

110-1-1: CLEARING AND GRUBBING

THE UNIT PRICE ALSO INCLUDES REMOVAL AND DISPOSAL OF ASPHALT, BASE, SUB-BASE, CURBS, SIDEWALKS, DRIVEWAYS, DRAINAGE STRUCTURES, PIPES, FENCES, SANITARY SEWER PIPES & STRUCTURES, AND ALL OTHER STRUCTURES AND OBSTRUCTIONS NECESSARY TO BE REMOVED AND FOR WHICH OTHER ITEMS OF THE CONTRACT DO NOT SPECIFY THE REMOVAL THEREOF. PARTIAL PAYMENTS WILL BE BASED UPON THE ESTIMATED TOTAL VALUE OF WORK COMPLETED TO THE DATE OF THE ESTIMATE AS DETERMINED BY THE ENGINEER. ALL PARTIAL ESTIMATES AND PAYMENTS ARE SUBJECT TO CORRECTION IN SUBSEQUENT ESTIMATES AND PAYMENT. THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR REMOVAL OF EXISTING FENCES AND RELOCATION OR REPLACEMENT WITH NEW FENCE OR WITH THE FENCING MATERIAL THAT WAS REMOVED IF IT IS UNDAMAGED, AND FOR THE RELOCATION OR REPLACEMENT OF MAILBOXES.

120-1 AND 120-6: REGULAR EXCAVATION AND EMBANKMENT FINAL PAY QUANTITY WILL BE PLAN QUANTITY WITH NO CONSIDERATION FOR SPECIFICATION TOLERANCES. THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR TURBIDITY MONITORING IN COMPLIANCE WITH THE ENVIRONMENTAL PERMITS.

334-1-11, 334-1-12, 334-1-13: SUPERPAVE ASPHALTIC CONCRETE THE UNIT PRICE ALSO INCLUDES ADJUSTMENT OF ALL EXISTING UTILITY FRAMES AND COVERS AND ALL WATER AND GAS VALVE BOXES WITHIN THE LIMITS OF CONSTRUCTION TO BE FLUSH WITH FINISHED PAVEMENT. THE CONTRACTOR SHALL INSTALL THE PAVEMENT IN LAYERS AS SHOWN IN THE TYPICAL PAVEMENT RECONSTRUCTION SECTION(S).

400-0-13: CONCRETE, CLASS NS, STEPS

THE UNIT PRICE FOR ALSO INCLUDES FURNISHING SELECT MATERIAL FOR BACKFILL WHEN SUITABLE MATERIAL IS NOT AVAILABLE ON SITE AND THE COST OF REINFORCING STEEL REQUIRED BY DETAILS.

400-4-2: CLASS IV CONCRETE (ENDWALL & WINGWALL)

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL THE ENDWALLS AND WINGWALLS, INCLUDING SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, GROUT OR FLOWABLE BACKFILL BETWEEN THE NEW AND EXISTING CULVERTS, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL, COARSE AGGREGATE, AND FURNISHING SELECT MATERIAL FOR BACKFILL.

410-70-1006: PRECAST CONCRETE BOX CULVERT

THE UNIT PRICE ALSO INCLUDES PAYMENT FOR SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL, AND FURNISHING SELECT MATERIAL FOR BACKFILL WHEN SUITABLE MATERIAL IS NOT AVAILABLE ON SITE.

425-1-311, 321, 351, 411, 412, 451, 461; CURB INLETS

UNLESS OTHERWISE NOTED IN THE PLANS, THE UNIT PRICE ALSO INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING TWO-PIECE COVERS AND FRAMES WITH 3'-0" OPENINGS WHEN THE DEPTH OF THE STRUCTURES EXCEED 5'-0".

425-1-371: CURB INLET, TYPE 1HC & 2HC

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO CONSTRUCT A TYPE 1HC OR TYPE 2HC CURB INLET AS SHOWN ON THE PLANS, INCLUDING EXCAVATION, SHEETING AND/OR SHORING, DEWATERING, CONCRETE, REINFORCING STEEL, CAST IRON RING AND COVER, NOSE REINFORCING, AND RISER AND/OR STRUCTURE BOTTOM AS CALLED FOR ON THE PLANS.

425-1-521, 545: DITCH BOTTOM INLETS

UNLESS OTHERWISE NOTED IN THE PLANS, THE UNIT PRICES ALSO INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING TRAFFIC BEARING GRATES MEETING HS-20 LOADING REQUIREMENTS. THE UNIT PRICES FOR DITCH BOTTOM INLETS WITH SLOTS ALSO INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING 1 INCH DIAMETER POWDER COATED STEEL BARS CAST INTO THE STRUCTURES AS SHOWN IN THE PLANS.

425-2-41, 91: MANHOLES AND JUNCTION BOXES

UNLESS OTHERWISE NOTED IN THE PLANS, THE UNIT PRICES ALSO INCLUDE ALL COSTS FOR FURNISHING AND INSTALLING TWO-PIECE COVERS AND FRAMES WITH 3'-0" OPENINGS WHEN THE DEPTH OF THE STRUCTURE EXCEEDS 5'-0".

430-175-115, 118, 124, 130, 136: PIPE CULVERT, OPTIONAL MATERIAL THE UNIT PRICES ALSO INCLUDE PAYMENT FOR SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL. AND FURNISHING SELECT MATERIAL FOR BACKFILL WHEN SUITABLE MATERIAL IS NOT AVAILABLE ON SITE.

430-834-1: CONCRETE COLLARS & JACKETS

THE UNIT PRICES CONSTITUTE FULL COMPENSATION FOR ALL LABOR AND MATERIALS REQUIRED TO INSTALL CONCRETE COLLARS FOR JOINING MAINLINE PIPES AND STUB PIPES, AND FOR INSTALLING CONCRETE JACKETS FOR CONNECTING DISSIMILAR TYPES OF PIPE AND FOR CONNECTING CONCRETE PIPES WITH DISSIMILAR JOINTS.

470-1: TEMPORARY ENDWALL AND WINGWALLS (TIMBER):

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL THE TEMPORARY TIMBER ENDWALLS AND WINGWALLS, INCLUDING SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, GROUT OR FLOWABLE BACKFILL BETWEEN THE NEW AND EXISTING CULVERTS, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL, COARSE AGGREGATE, CONCRETE, REINFORCING AND FURNISHING SELECT MATERIAL FOR BACKFILL.

470-2: PERMANENT ENDWALL AND WINGWALLS (CONCRETE):

THE UNIT PRICE CONSTITUTES FULL COMPENSATION FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL THE PERMANENT CONCRETE ENDWALLS AND WINGWALLS, INCLUDING SHEETING AND/OR SHORING, DEWATERING, FILTER FABRIC, GROUT OR FLOWABLE BACKFILL BETWEEN THE NEW AND EXISTING CULVERTS, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL, COARSE AGGREGATE, CONCRETE, REINFORCING AND FURNISHING SELECT MATERIAL FOR BACKFILL.

522-1, 522-2: CONCRETE SIDEWALK

THE UNIT PRICES ALSO INCLUDE FURNISHING AND INSTALLING DETECTABLE WARNING

524-1-2, 524-1-49: CONCRETE DITCH PAVING, 4" NON-REINFORCED AND 6" REINFORCED THE UNIT PRICE WILL INCLUDE PAYMENT FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL THE CONCRETE DITCH PAVEMENT, INCLUDING BUT NOT LIMITED TO DEWATERING, FILTER FABRIC, FURNISHING, PLACING AND COMPACTING SELECT BEDDING MATERIAL AND COARSE AGGREGATE AND REINFORCING WHEN REQUIRED.

530-3-4: RIPRAP RUBBLE DITCH LINING

THE UNIT PRICE WILL INCLUDE PAYMENT FOR ALL LABOR AND MATERIALS NECESSARY TO FURNISH AND INSTALL THE RIPRAP RUBBLE, INCLUDING BUT NOT LIMITED TO EXCAVATION, DEWATERING, FILTER FABRIC, AND FURNISHING AND PLACING THE RIPRAP RUBBLE AS DIRECTED IN PLANS.

550-10-222: FENCING, TYPE B

THE UNIT PRICES CONSTITUTE FULL COMPENSATION FOR FURNISHING AND ERECTING METAL CHAIN LINK FENCE WITH BLACK TYPE IV M181 CLASS A VINYL COATED FABRIC, INCLUDING ALL POSTS, RAILS, TRUSS RODS, TOP RAILS AND/OR TENSION WIRES AS INDICATED ON THE PLANS, TIE WIRES, STRETCHER BARS, MISCELLANEOUS FITTINGS, ANCHOR PLATES, ANCHORS, NUTS AND WASHERS, AND OTHER HARDWARE VINYL COATED OR PAINTED TO MATCH THE COLOR OF THE FABRIC.

570-1-2: PERFORMANCE TURF, SOD, CENTIPEDE AND ST. AUGUSTINE THE UNIT PRICES CONSTITUTE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED FOR ESTABLISHING A STAND OF GRASS BY SODDING IN ACCORDANCE WITH SECTION 570 OF THE STANDARD SPECIFICATIONS, INCLUDING FURNISHING AND PLACING SOD, PEGGING WHEN SPECIFIED IN THE PLANS, LAPPING AND PINNING WHEN SLOPE IS 2:1 OR GREATER, AND FURNISHING AND APPLYING FERTILIZER AND WATER. THE UNIT PRICES ALSO INCLUDE AND MAINTENANCE, INCLUDING LITTER REMOVAL AND MOWING UNTIL FINAL ACCEPTANCE. SOD GRASS TYPE TO MATCH EXISTING ADJACENT GRASS TYPE.

WATER & SEWER PAY ITEM NOTES:

SMH-0406, SMH-0410, SMH-0414, CMH-10: SANITARY MANHOLE THE UNIT PRICE FOR THE ABOVE ITEMS INCLUDES THE COST OF ADJUSTING AS NEEDED FOR ROADWAY MILLING AND RESURFACING.

GSM-01-0810, GSM-01-1006, GSM-01-1008, GSM-01-1010, GSM-01-1012, GSM-01-1014: GRAVITY SEWER MAIN

THE UNIT PRICE FOR THE ABOVE ITEMS INCLUDES ALL WORK FOR INSTALLING GRAVITY SEWER MAIN AS DESCRIBED IN THE CITY OF TALLAHASSEE "PAY ITEM MANUAL FOR WATER AND SEWER CONSTRUCTION", DATED OCTOBER 2018, EXCEPT THE COST OF STABILIZED SUBGRADE, ROADWAY BASE, AND ASPHALT PATCHING. STABILIZED SUBGRADE, ROADWAY BASE, AND ASPHALT PATCHING SHALL BE PAID FOR IN THE UNIT PRICE FOR THAT WORK.

3 - 2 E NOTE! TEM

COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

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JOB NO. DRAWN DESIGNED. CHECKED .

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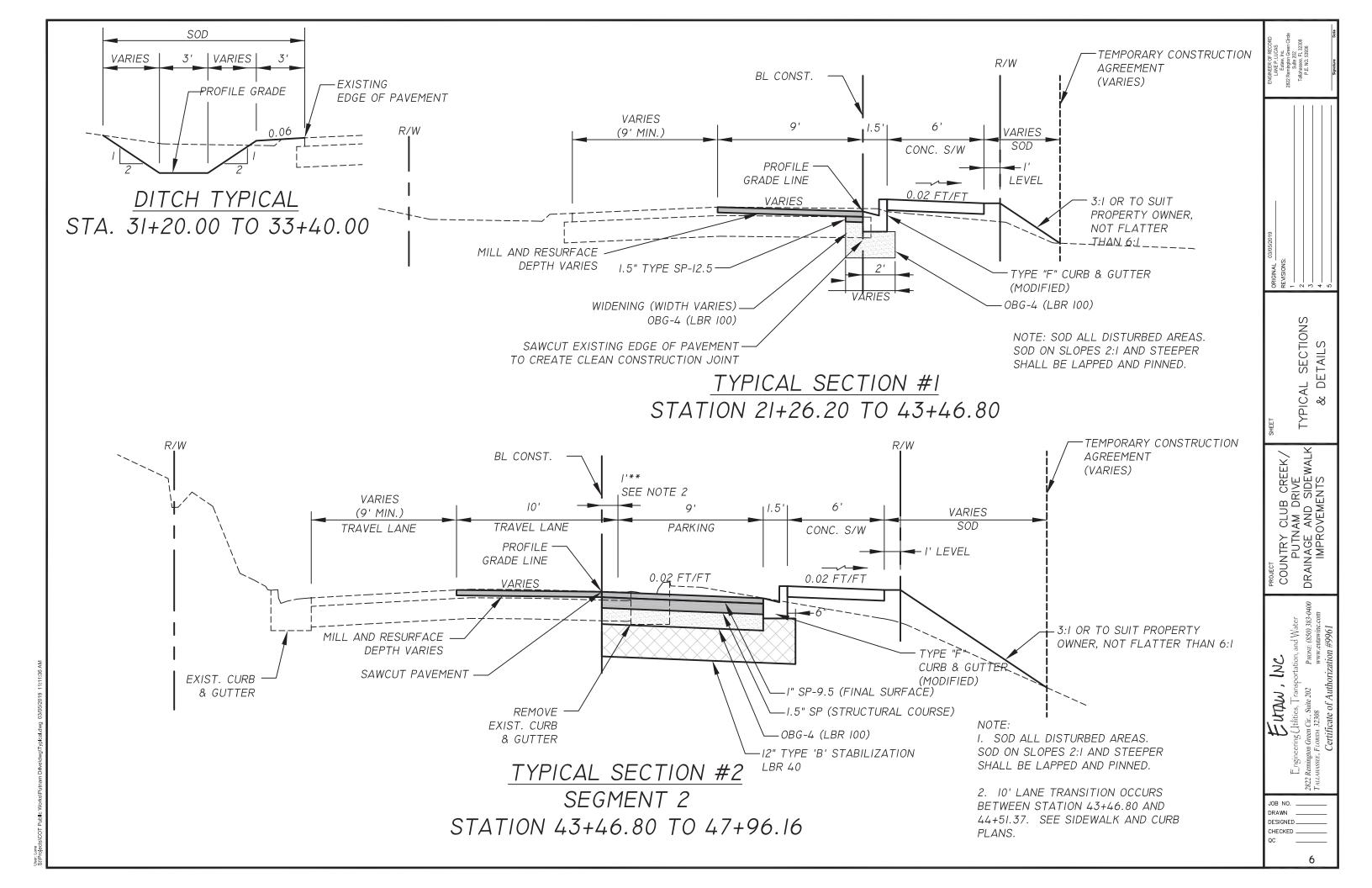
SUMMARY OF DRAINAGE STRUCTURES

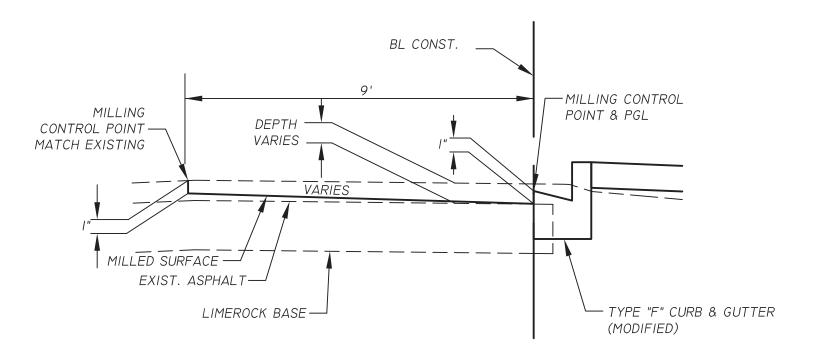
COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

EUTAW, INC
Engineering (Lillites, Transportation, and Water
822 Remington Green Cir., Suite 202 PHONE. (850) 383-0400
ALLANDASER, FLORDA 32308 WWW.eutawinc.com
Certificate of Authorization #9961

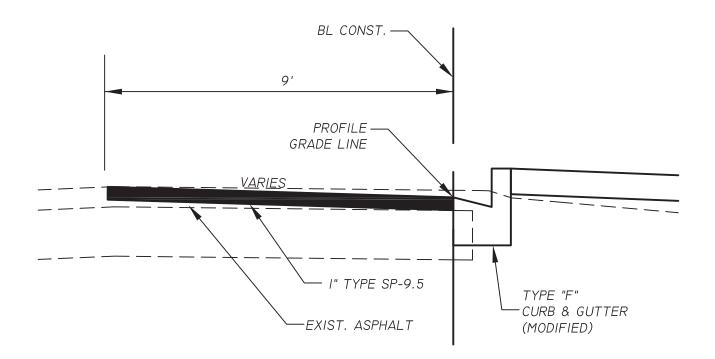
JOB NO. ______
DRAWN _____
DESIGNED _____

5





MILLING DETAIL



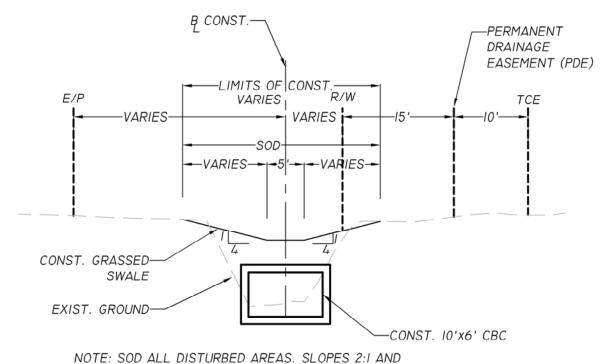
RESURFACING DETAIL

TYPICAL SECTIONS & DETAILS

COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

EUTAW, INC

JOB NO. _ DRAWN DESIGNED _ CHECKED _



GREATER SHALL BE LAPPED AND PINNED

CONCRETE BOX CULVERT & SWALE STA. 13+60 TO 17+25

段 CONST. -LIMITS OF CONST. **VARIES EXIST** PROP. R/WR/W**VARIES** -VARIES-VARIES-SOD -VARIES-VARIES-0.5% TYP. EXIST. GROUND--FILL EXIST. CONST. TEMPORARY-EARTHEN CHANNEL CONCRETE DITCH PAVEMENT PER DETAIL

NOTES:

- I. THIS SECTION WILL TRANSITION ALIGNMENT AND GRADE TO MATCH EXISTING AT STATION 20+50.
- 2. SOD ALL DISTURBED AREAS. SLOPES 2:1 AND GREATER SHALL BE LAPPED AND PINNED.

TEMPORARY TRANSITION STA. 19+50 TO 20+50

艮 CONST.--LIMITS OF CONST.-**EXIST** PROP. **VARIES** R/WR/W**VARIES** -VARIES-VARIES-SOD -VARIES-SOD -VARIES-2% TYP. 0.5% TYP. EXIST. GROUND-CONST. REINFORCED-FILL EXIST. CONCRETE DITCH EARTHEN CHANNEL PAVEMENT PER DETAIL

> CONCRETE DITCH PAVEMENT STA. 18+41.56 TO 19+50 NTS

NOTE: SOD ALL DISTURBED AREAS. SLOPES 2:1 AND

GREATER SHALL BE LAPPED AND PINNED

COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

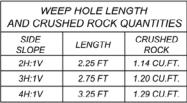
L SECTIONS DETAILS

TYPICAL AND D

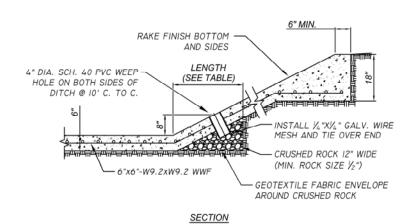
FUTAW, INC

JOB NO. DRAWN DESIGNED_ CHECKED _

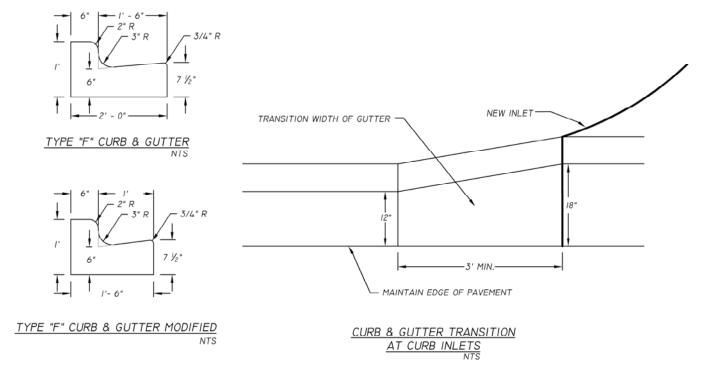
NTS



QUANTITIES LISTED ARE FOR INFORMATION ONLY.

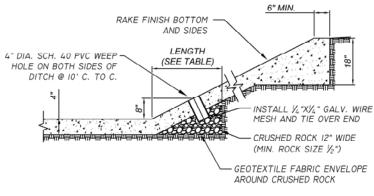


REINFORCED CONCRETE DITCH PAVEMENT



WEEP HOLE LENGTH AND CRUSHED ROCK QUANTITIES								
SIDE SLOPE	LENGTH	CRUSHED ROCK						
2H:1V	2.25 FT	1.14 CU.FT.						
3H:1V	2.75 FT	1.20 CU.FT.						
4H:1V	3.25 FT	1.29 CU.FT.						

QUANTITIES LISTED ARE FOR INFORMATION ONLY.



SECTION

TEMPORARY (NON-REINFORCED) CONCRETE DITCH PAVEMENT
NTS

MATCH EXIST.

MATCH EXIST.

MATCH EXIST.

OPTIONAL BASE GROUP 4

TO REMAIN

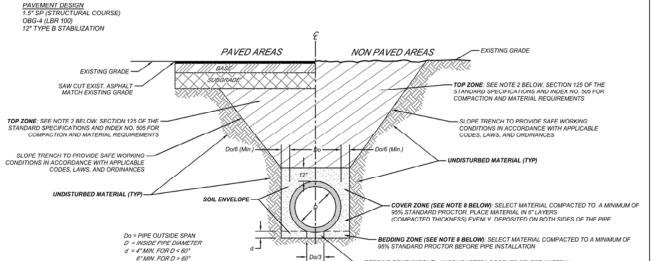
NORMA ST. PAVEMENT RECONSTRUCTION DETAIL
NTS

REMOVE & REPLACE

2" SP-12.5

SECTIONS DETAILS TYPICAL AND D COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS - MATCH EXIST. EXIST. C&G EUTAW, INC JOB NO.

> DRAWN __ DESIGNED __ CHECKED __



- THE SOIL ENVELOPE SHALL USE MATERIAL MEETING AASHTO CLASSIFICATION OF A.1 SAND, A.3, OR A.2.4. FOR REINFORCED CONCRETE PIPE WITH DIAMETERS
 30-INCHES OR GREATER. THE CONTRACTOR MAY CHOOSE TO REDUCE THE COVER ZOID TO THE SPRINGLINE OF THE PIPE. COST FOR SELECT MATERIAL FOR THE SOIL
 ENVELOPE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES ASSOCIATED WITH THIS WORK.
- ENVELOPE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES ASSOCIATED WITH THIS WORK.

 THE TOP ZONE SHALL USE MATERIAL AS DEFINED IN INDEX NO. 505. NO A-MATERIAL SHALL BE PLACED BELOW THE WATER LEVEL. IF PLACED BELOW THE WATER

 LEVEL A-2-4 MATERIAL MUST BE NONPLASTIC AND CONTAIN LESS THAN 15% PASSING THE NO. 200 SEIVE. IN PAVED AREAS HIGH PLASTIC AND/OR MUCK MATERIALS WILL

 NOT BE ALLOWED AS BACKFILL. IN NON-PAVED AREAS MUCK MATERIAL WILL NOT BE ALLOWED AS BACKFILL UNLESS SPECIFICATIONS, (E.G., LITTORIAL SHELVES AND WETLAND RESTORATION AREAS).

 TRENCHES ARE TO BE EXCAVATED IN ACCORDANCE WITH SUBARTICLE 125-4.4 OF THE STANDARD SPECIFICATIONS.
- IF THE TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT IN ACCORDANCE WITH SECTION 125-9.2.1. MUCK AND ORGANIC MATERIAL SHALL NOT BE ALLOWED AS BACKFILL IN OVEREXCAVATED AREAS.
- BACKFILL IN OVEREX. AVAILED IN EARTHOF FROM JOINT TO JOINT WILL NOT BE ALLOWED.

 PIPES ARE TO BE INSTALLED IN DRY TRENCHES. OPEN TRENCH PUMPING FOR DEWATERING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

 BACKFILL SHALL BE PLACED IN LIFTS THIN ENOUGH TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF TWELVE INCHES, MEASURED LOOSE, SHALL NOT BE
- IF THE PIPE IS BENEATH OR WITHIN 5-FEET OF ANY BUILDING, COMPACT TO 100% STANDARD PROCTOR. IF THE PIPE IS NEAR ANY STRUCTURE, COMPACT TO 100% STANDARD PROCTOR FOR A DISTANCE OF AT LEAST ONE PIPE DIAMETER, BUT NOT LESS THAN THREE FEET FROM THE OUTSIDE FACE OF THE STRUCTURE

STORM DRAIN PIPE INSTALLATION N.T.S.

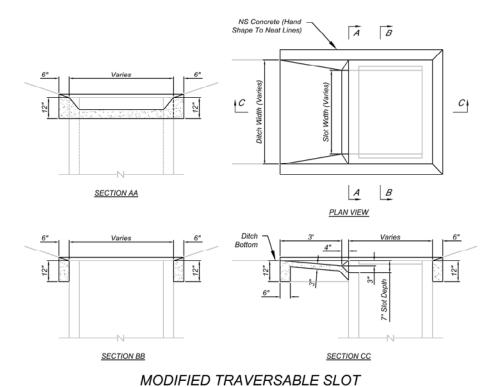
TRAVERSABLE SLOT **CONCRETE QUANTITIES**

INLET TYPE	SINGLE SLOT	DOUBL SLOT
С	0.53 CY	0.74 C
D	0.63 CY	0.84 C
Ε	0.66 CY	0.89 C

1. SLOTS MAY BE CONSTRUCTED ON EITHER OR BOTH ENDS OF INLET AS SHOWN ON THE PLANS.

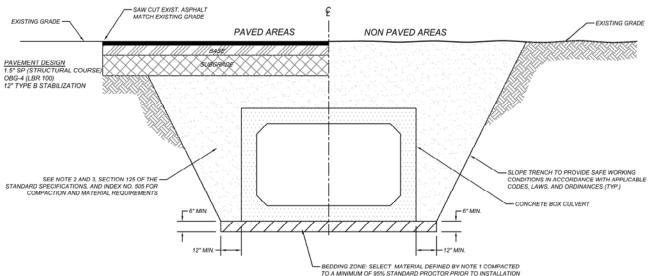
DING ZONE (MIDDLE): LINCOMPACTED/LOOSENED SELECT MATERIAL

- 2. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH TRAVERSABLE SLOTS.
- 3. COST OF SLOTS IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INLET
- 4. QUANTITIES LISTED ARE PROVIDED FOR INFORMATION ONLY



(TYPE D INLET SHOWN - TYPES C AND E SIMILAR)

N.T.S.



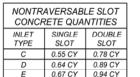
- 1. MATERIAL WITHIN THE BEDDING ZONE SHALL BE SELECT WITH NOT MORE THAN 15% FINES PASSING THE NO. 200 U.S. STANDARD SIEVE, IN ACCORDANCE WITH DESIGN STANDARDS, INDEX NO. 505, OR OTHER
- GRANULAR MATERIAL APPROVED BY THE ENGINEER. COST FOR THIS MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICES ASSOCIATED WITH THIS WORK.
- SELECT MATERIAL MEETING AASHTO CLASSIFICATION OF A-1 SAND, A-3, A-2-4, OR A-4 MAY BE USED AS BACKFILL ABOVE THE BEDDING ZONE PLASTIC MATERIAL AS DEFINED BY INDEX NO. 505 MAY BE USED FOR BACKFILL ABOVE THE BEDDING ZONE . HIGH PLASTIC AND/OR MUCK MATERIAL WILL NOT BE ALLOWED AS BACKFILL.
- TRENCHES ARE TO BE EXCAVATED IN ACCORDANCE WITH SUBARTICLE 125-4.4 OF THE STANDARD SPECIFICATIONS.

 IF THE TRENCH IS OVEREXCAVATED, BACKFILL AND RECOMPACT TO MATCH SURROUNDING DENSITY, THEN PLACE SELECT BEDDING MATERIAL AS SHOWN ABOVE.
- CULVERTS ARE TO BE INSTALLED IN DRY TRENCHES TO THE EXTENT PRACTICABLE. OPEN TRENCH PUMPING FOR DEWATERING SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL OF THE ENGINEER.

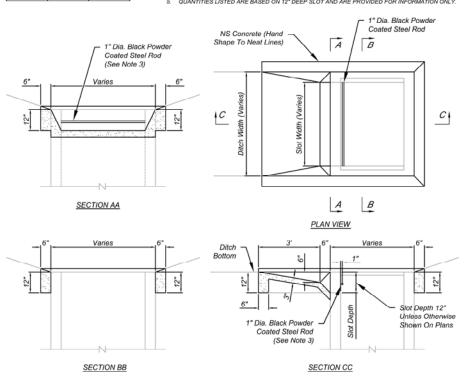
 UNDER WET CONDITIONS, COARSE AGGREGATE MAY BE USED BELOW THE ELEVATION AT WHICH MECHANICAL TAMPERS WOULD BE EFFECTIVE. COARSE AGGREGATE MUST MEET THE SIZE REQUIREMENTS SPECIFIED IN SUBARTICLE 125-8.3.4 OF THE STANDARD SPECIFICATIONS AND BE FULLY WRAPPED WITH A LAYER OF TYPE D-4 FILTER FABRIC. DO NOT PLACE COARSE AGGREGATE WITHIN 4 FEET OF THE ENDS OF
- THE TRENCH. USE NORMALLY ACCEPTED BACKFILL AT THE ENDS. 8. BACKFILL SHALL BE PLACED IN LIFTS THIN ENOUGH TO ALLOW COMPACTION TO BE ACHIEVED. LIFTS IN EXCESS OF TWELVE INCHES, MEASURED LOOSE, SHALL NOT BE ALLOWED.
- 9. BEFORE PLACING SOD IN GRASSED AREAS, PROVIDE A THREE-INCH MINIMUM THICK LAYER OF TOPSOIL THAT IS SUFFICIENTLY LOOSE TO PROMOTE ROOT GROWTH.

PRECAST CONCRETE BOX CULVERT INSTALLATION

N.T.S.



- 1. SLOTS MAY BE CONSTRUCTED ON EITHER OR BOTH ENDS OF INLET AS SHOWN ON THE PLANS.
- 2. STEEL GRATES ARE TO BE USED ON ALL INLETS WITH NONTRAVERSABLE SLOTS.
- 3. COST OF SLOTS IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INLET.
- 4. BLACK POWDER COATED STEEL ROD IS TO BE LOCATED VERTICALLY IN CENTER OF OPENING. COST TO FURNISH AND INSTALL ROD IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INLET.
- 5. QUANTITIES LISTED ARE BASED ON 12" DEEP SLOT AND ARE PROVIDED FOR INFORMATION ONLY.



MODIFIED NONTRAVERSABLE SLOT (TYPE D INLET SHOWN - TYPES C AND E SIMILAR) N.T.S.

COUNTRY CLUB CREEK/ PUTNAM DRIVE RAINAGE AND SIDEWALK IMPROVEMENTS COUNT

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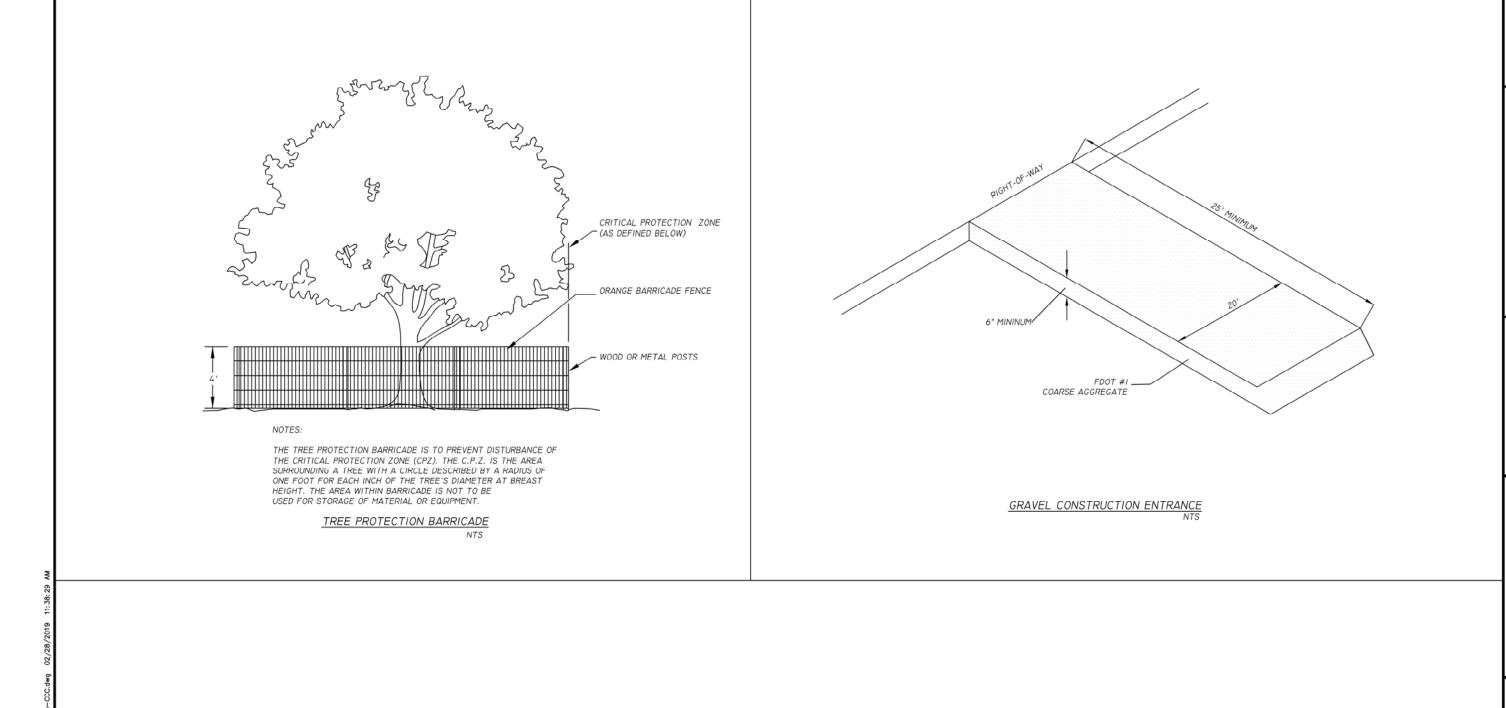
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SECTION DETAILS

TYPICAL AND

, | | | HUTAW,

JOB NO. DRAWN DESIGNED. CHECKED _

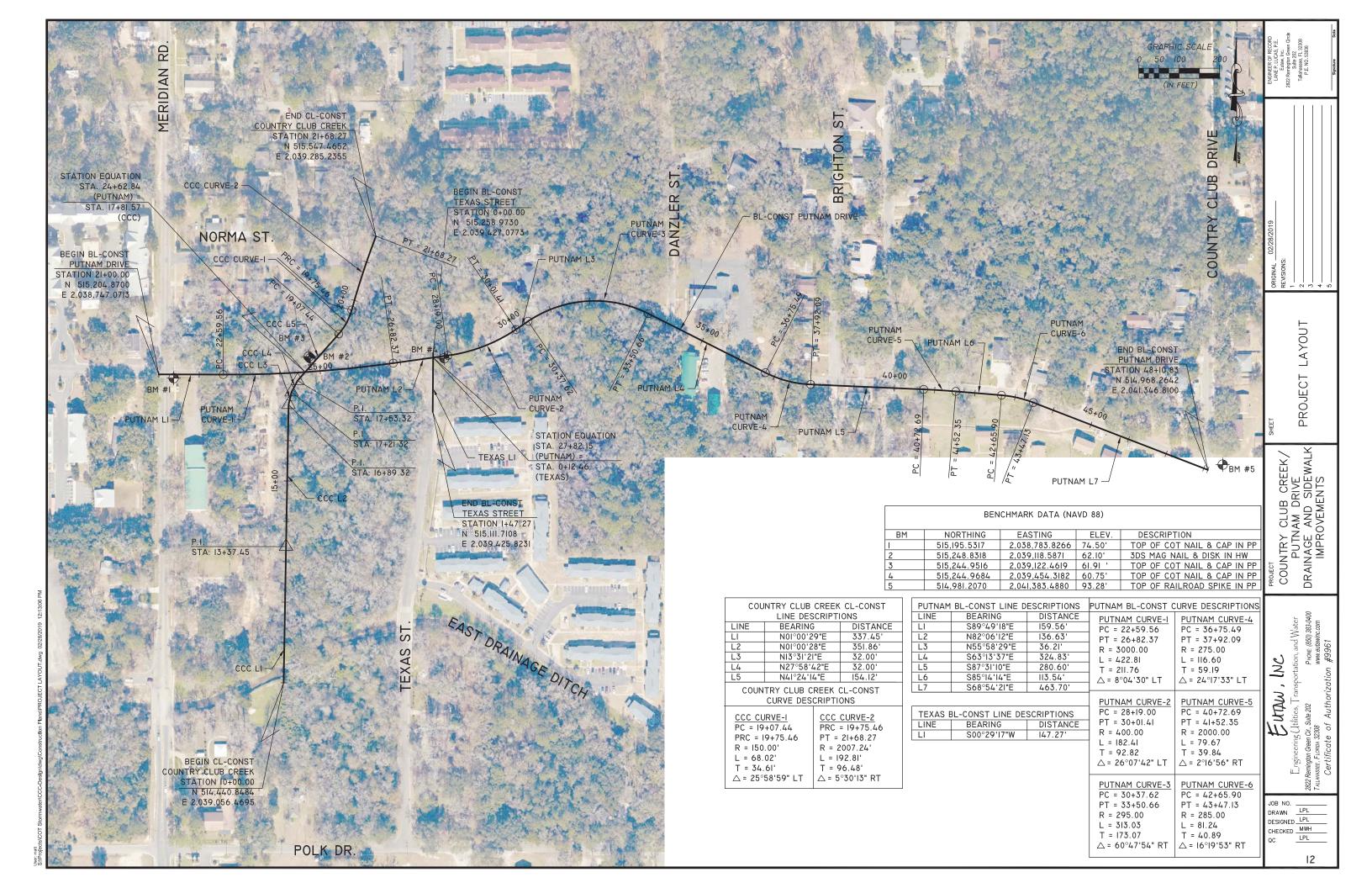


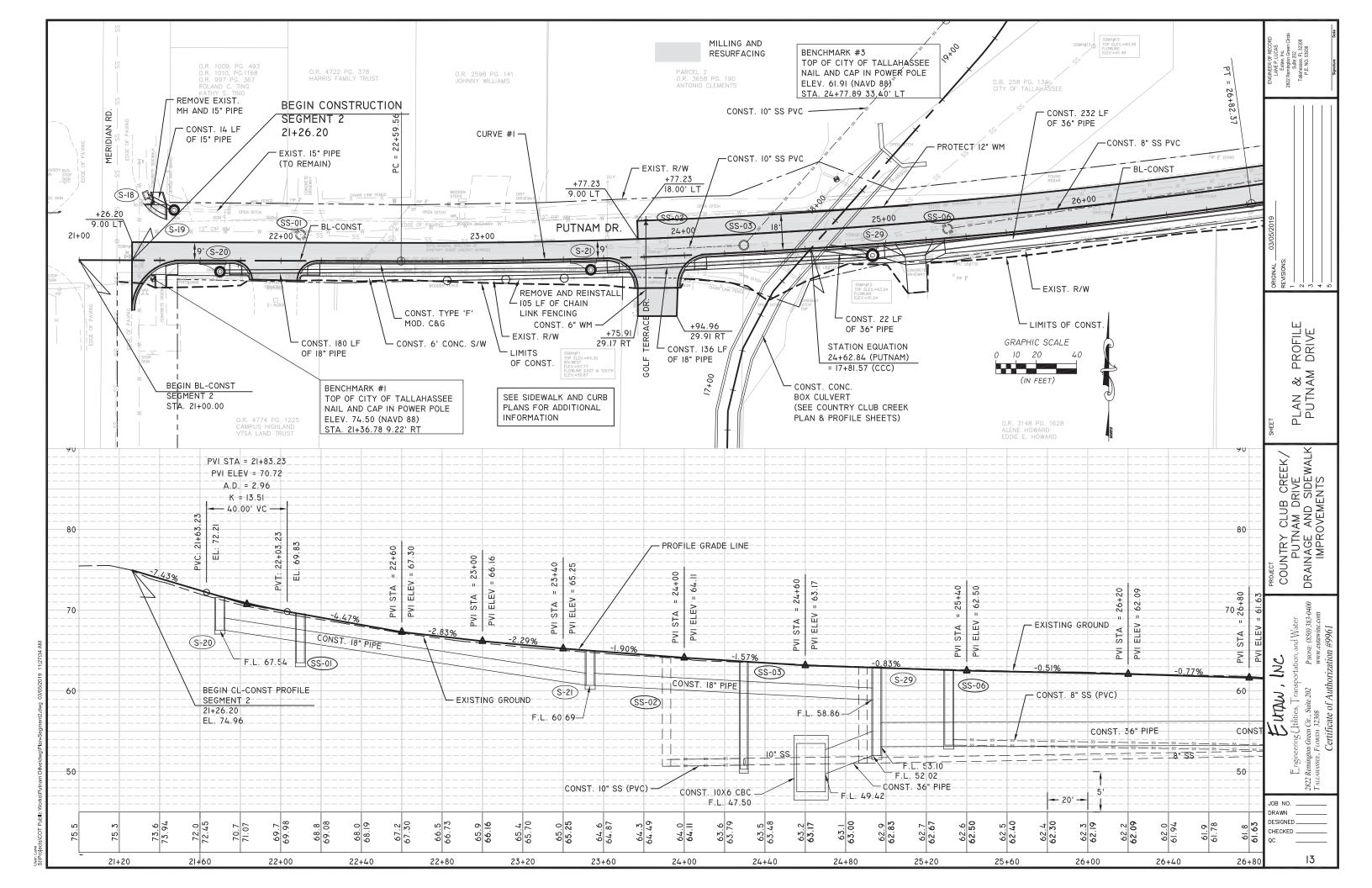
FUTAW, INC

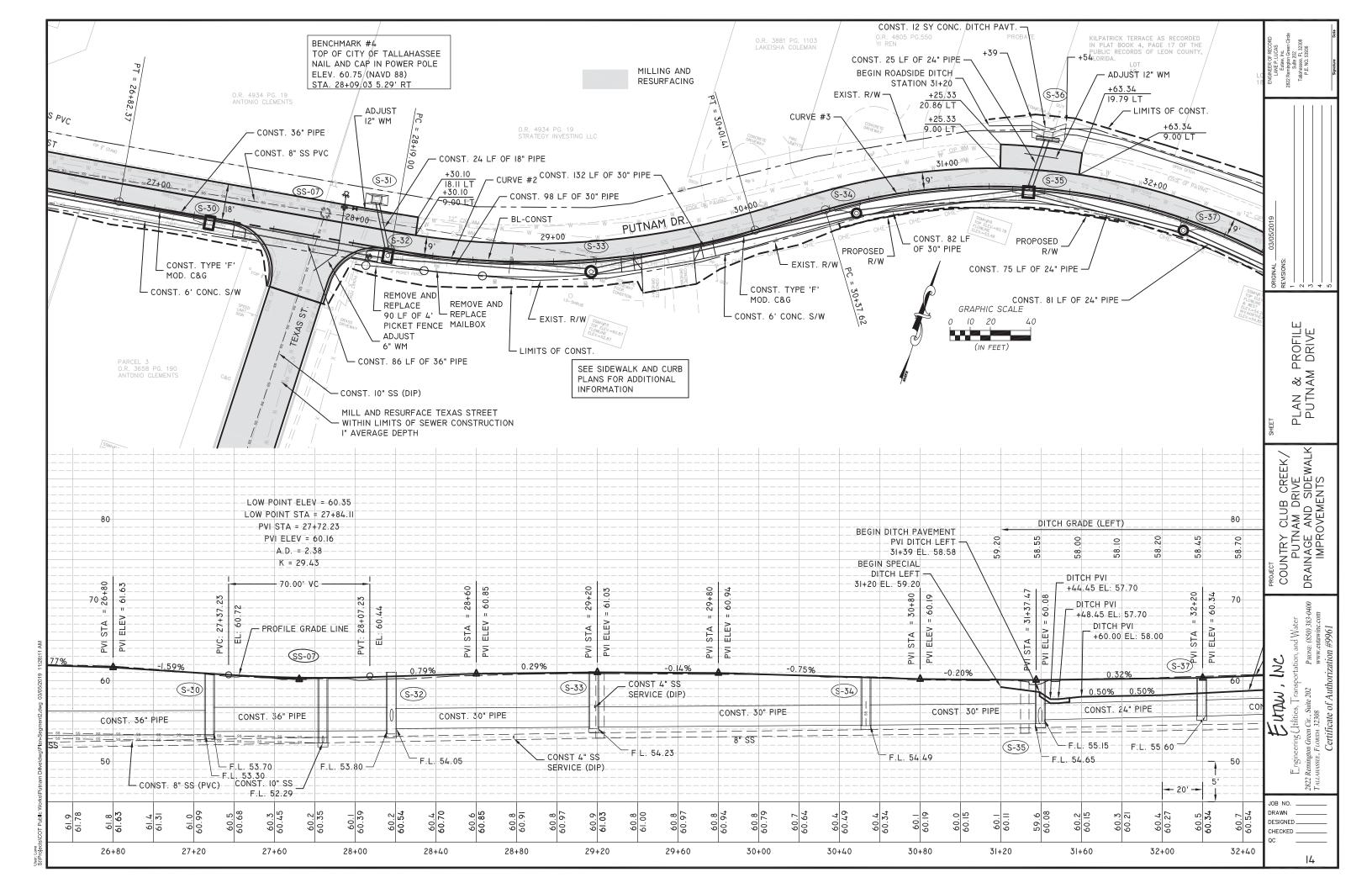
TYPICAL SECTIONS AND DETAILS

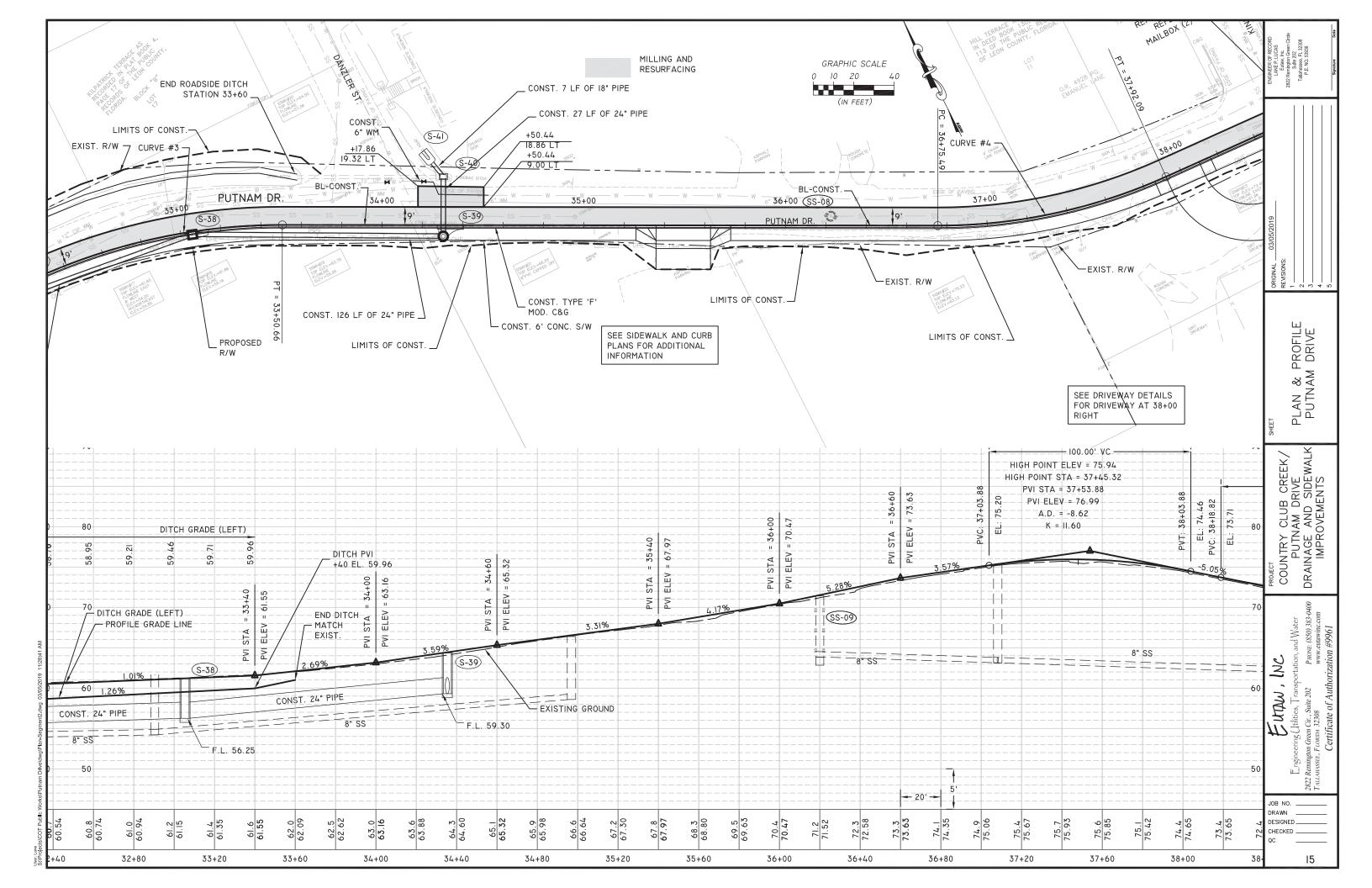
COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

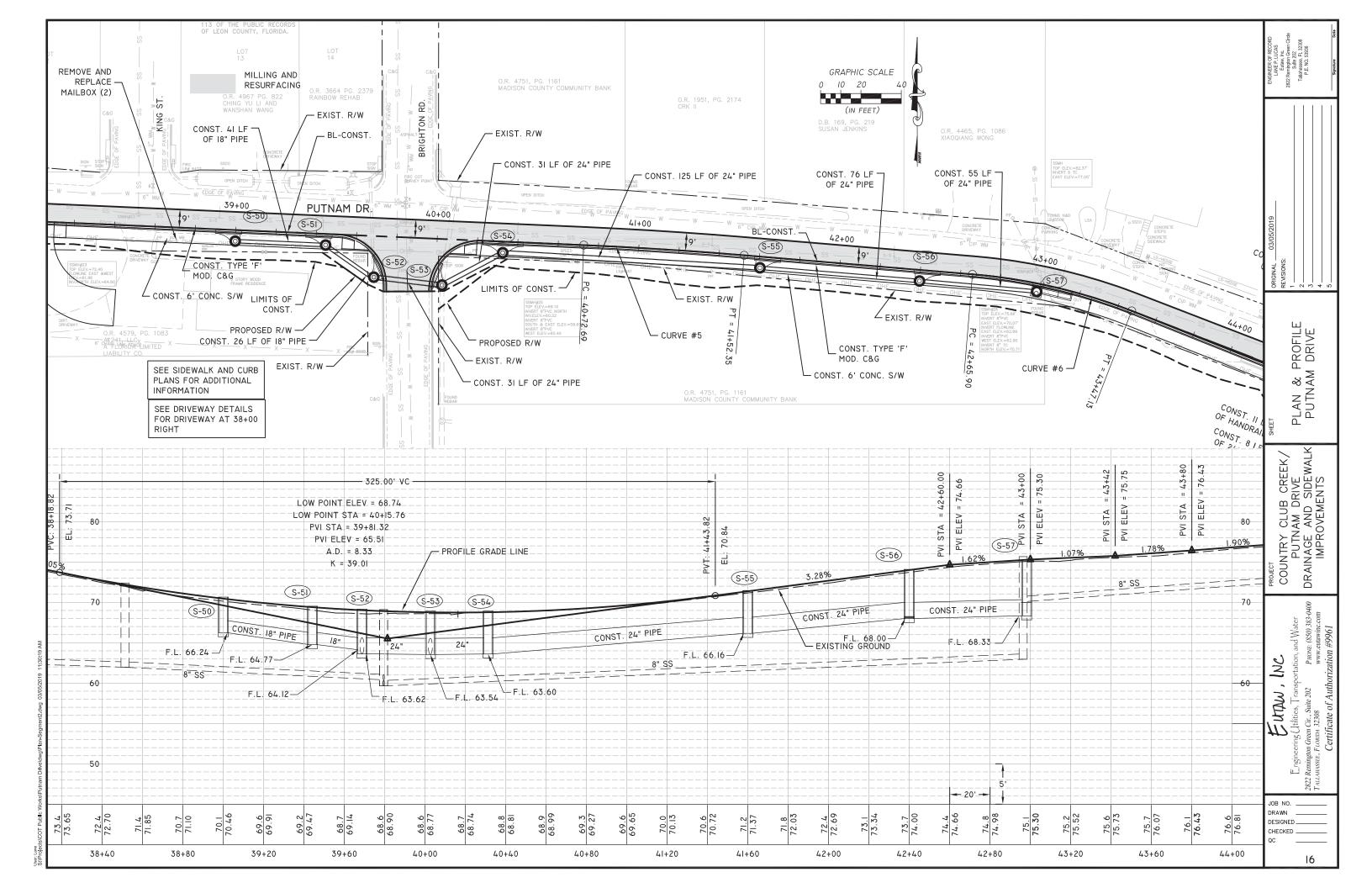
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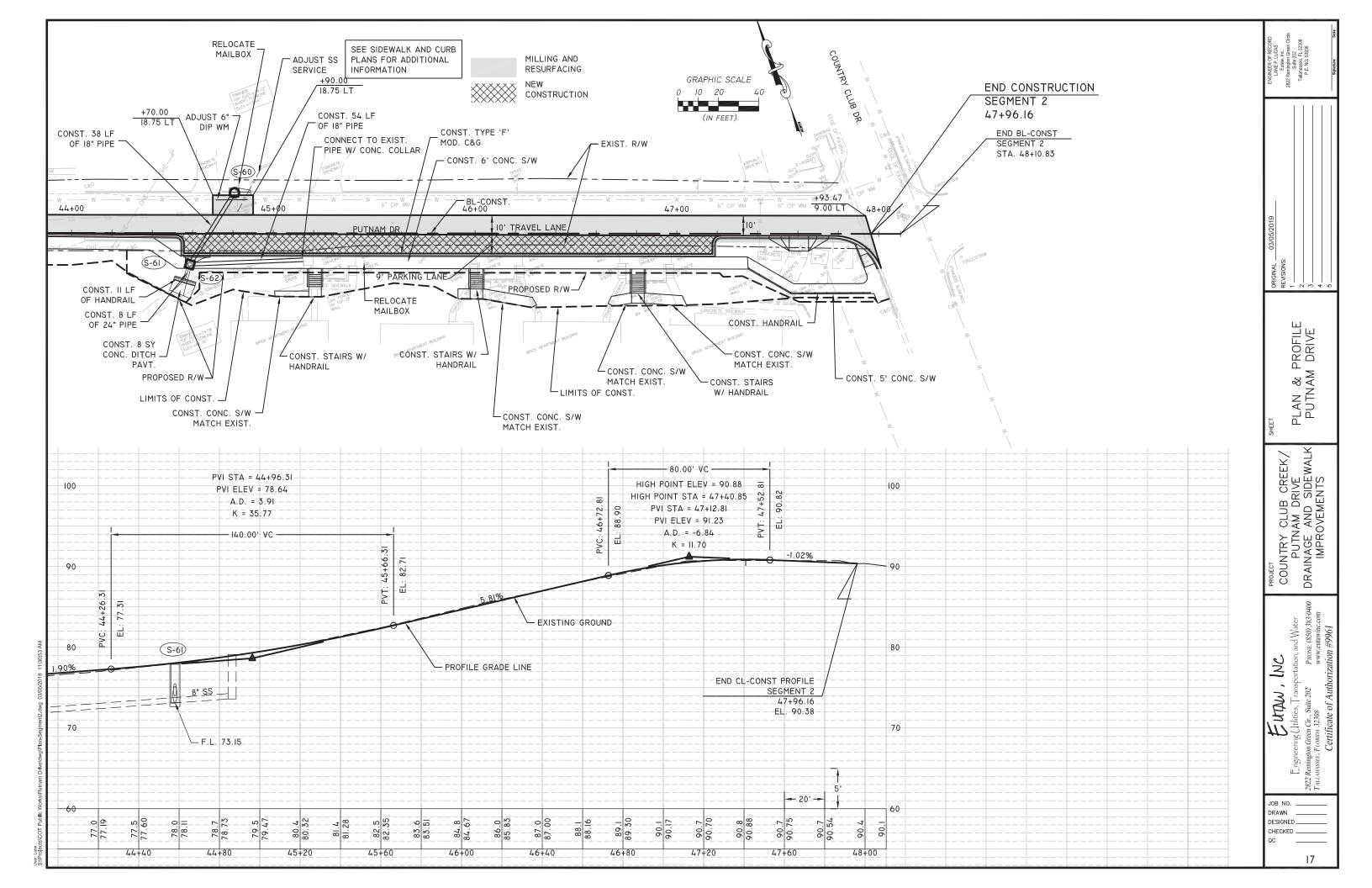


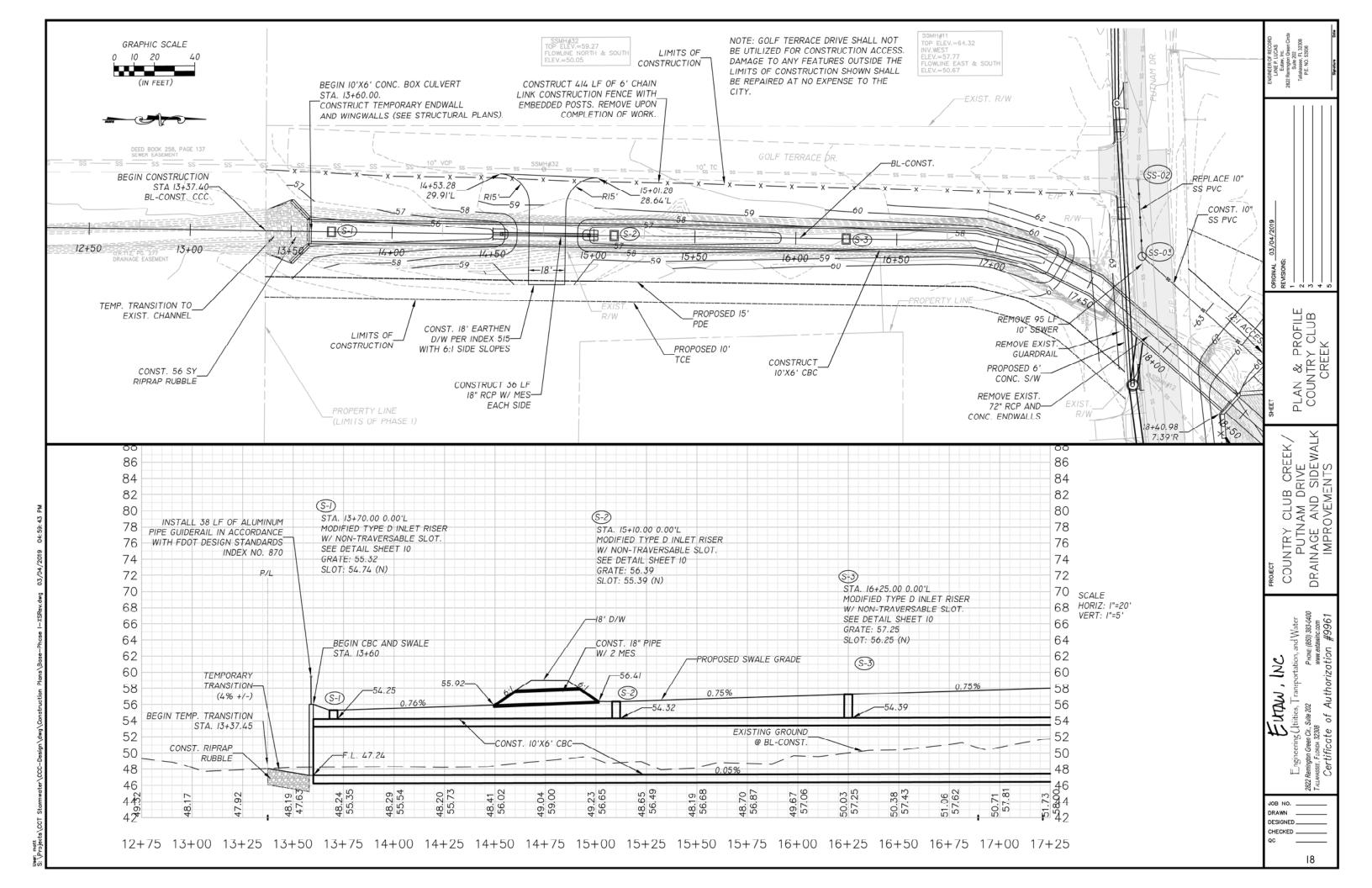


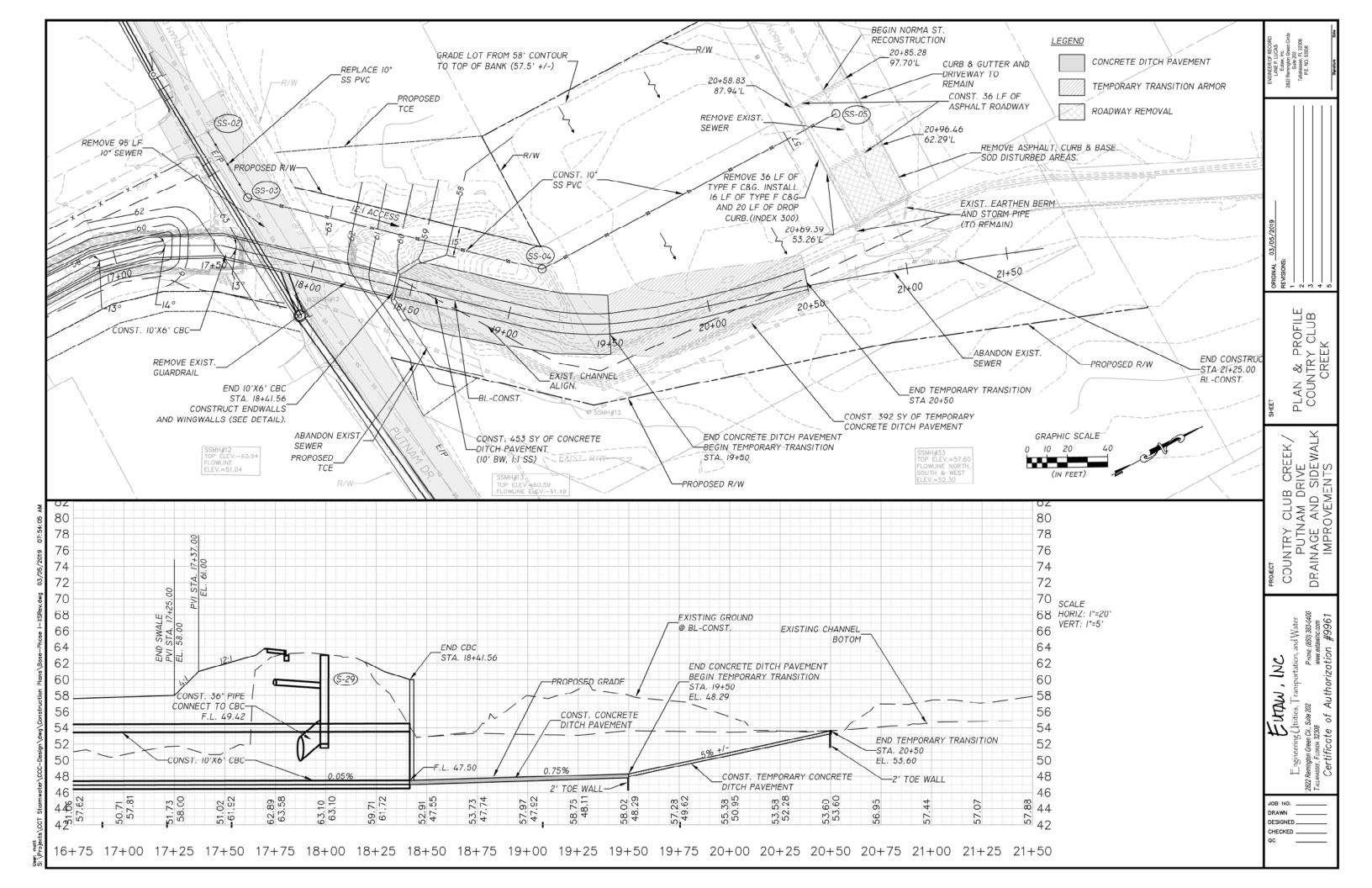


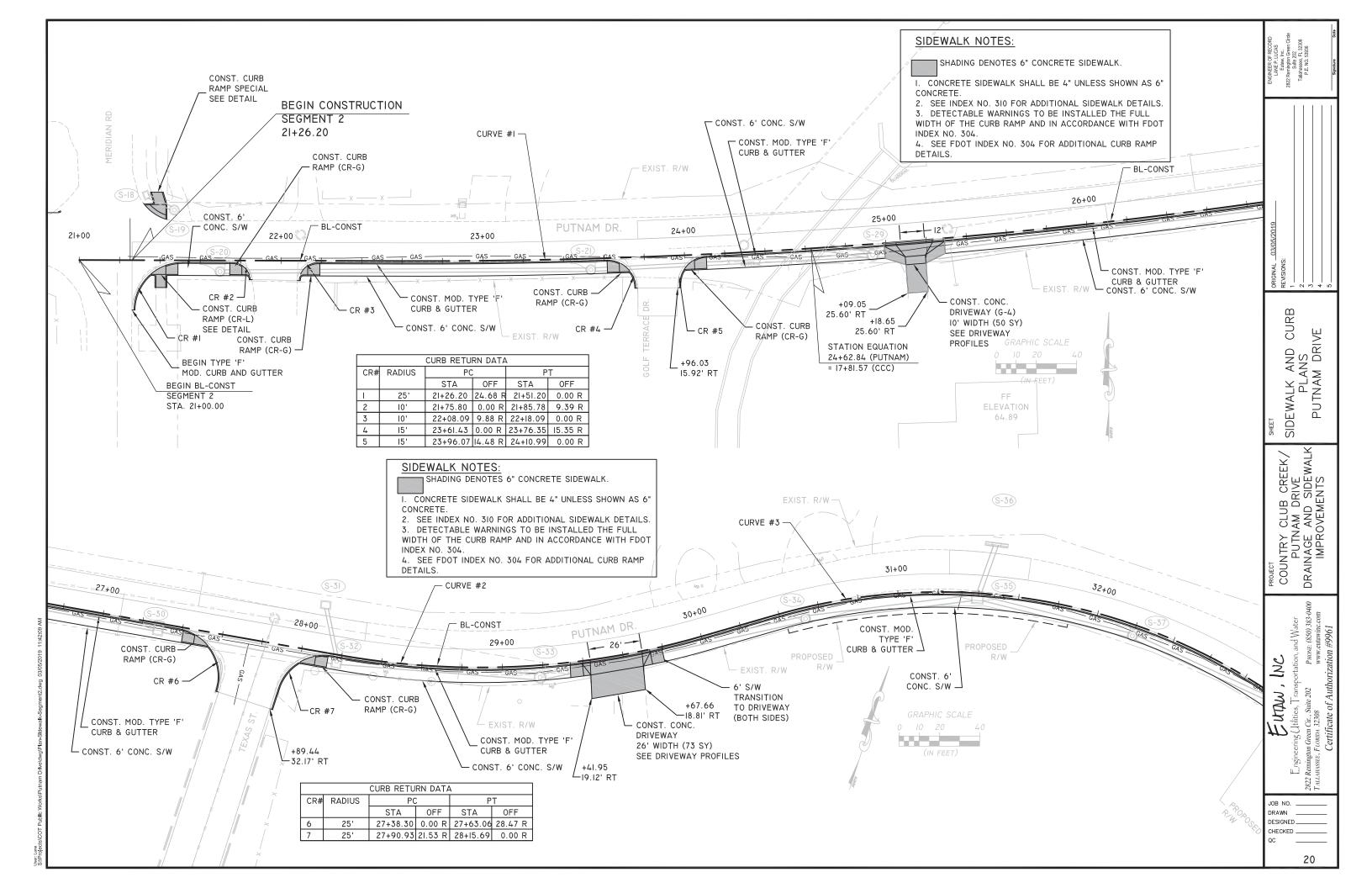


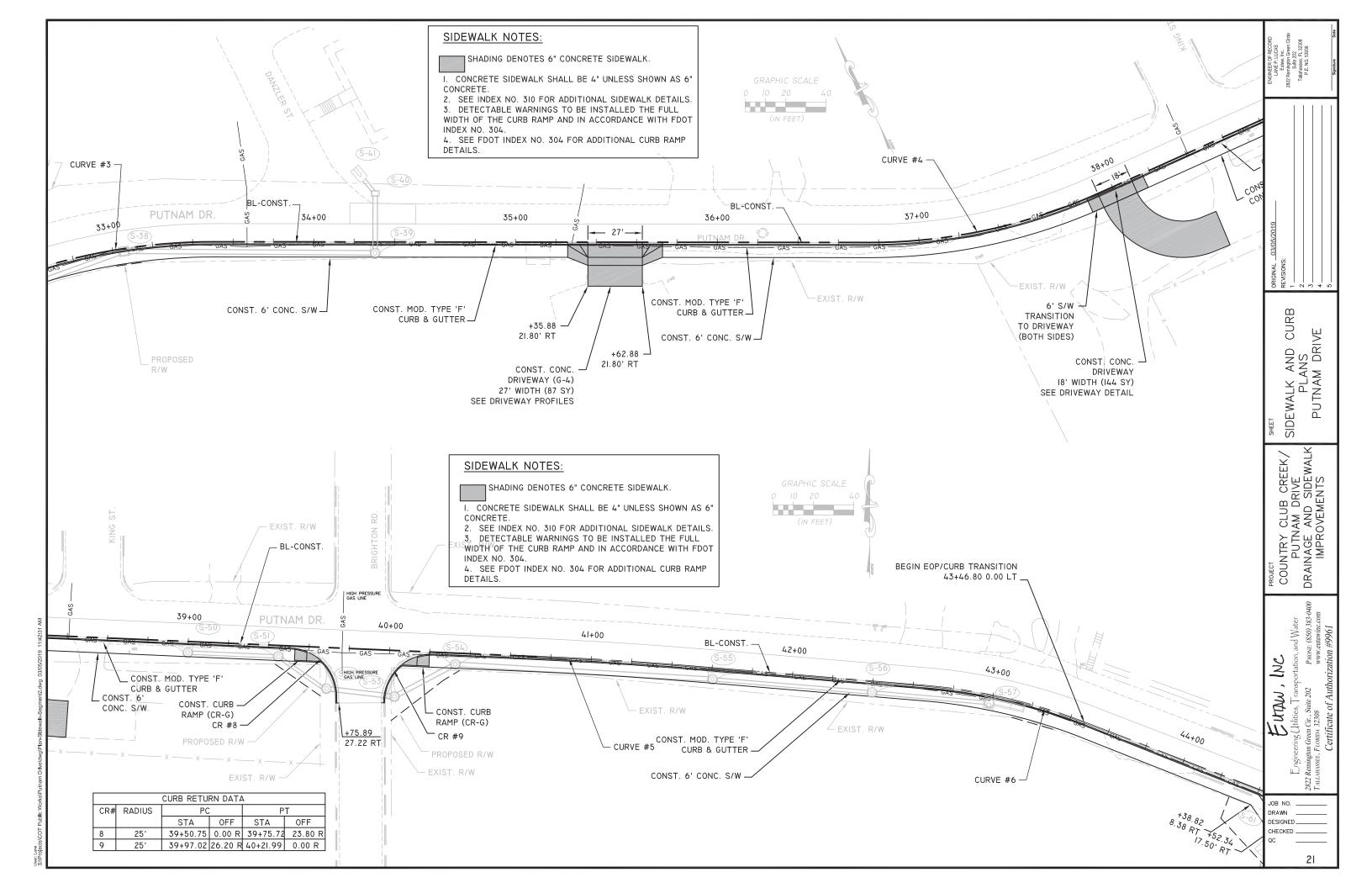


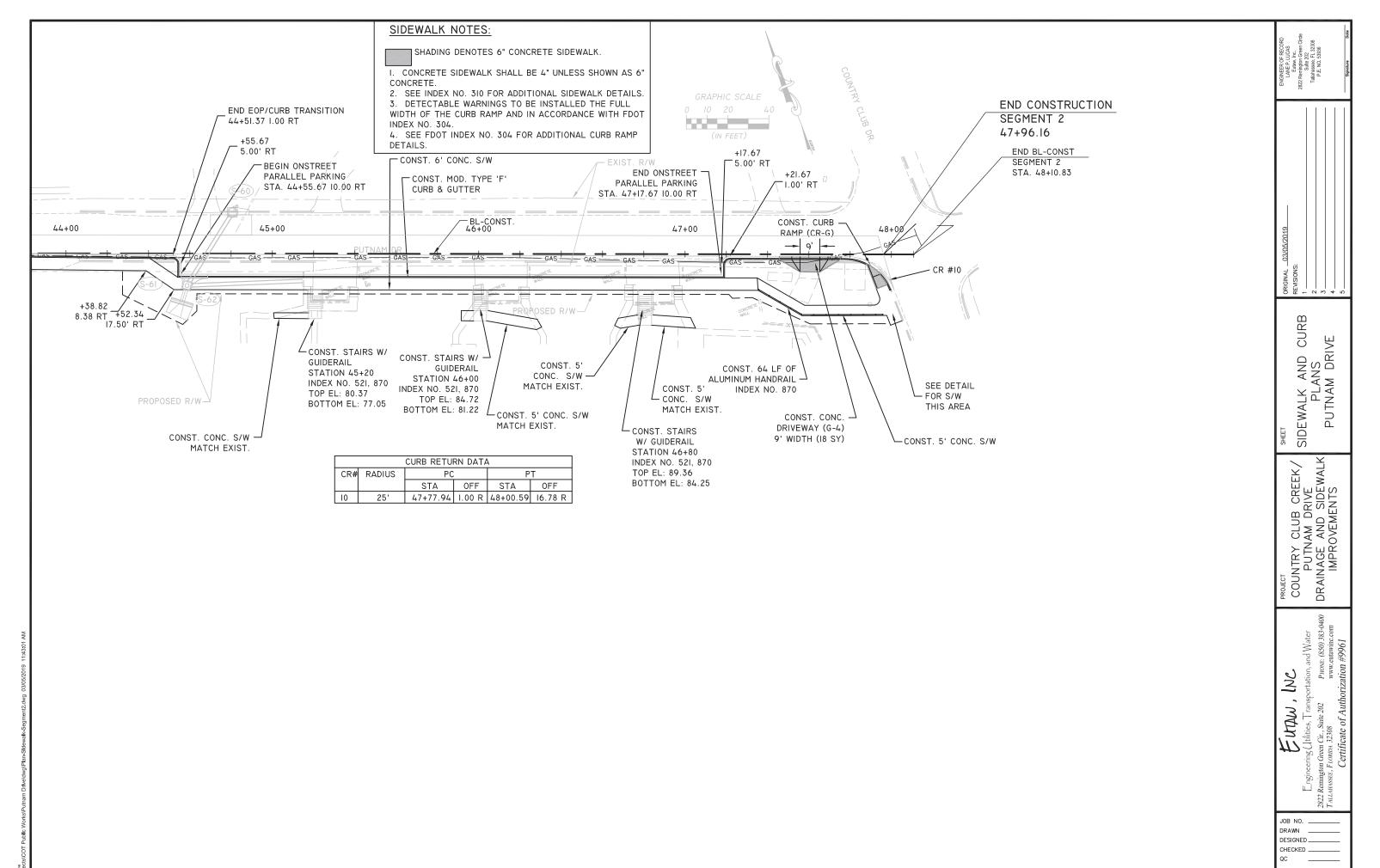


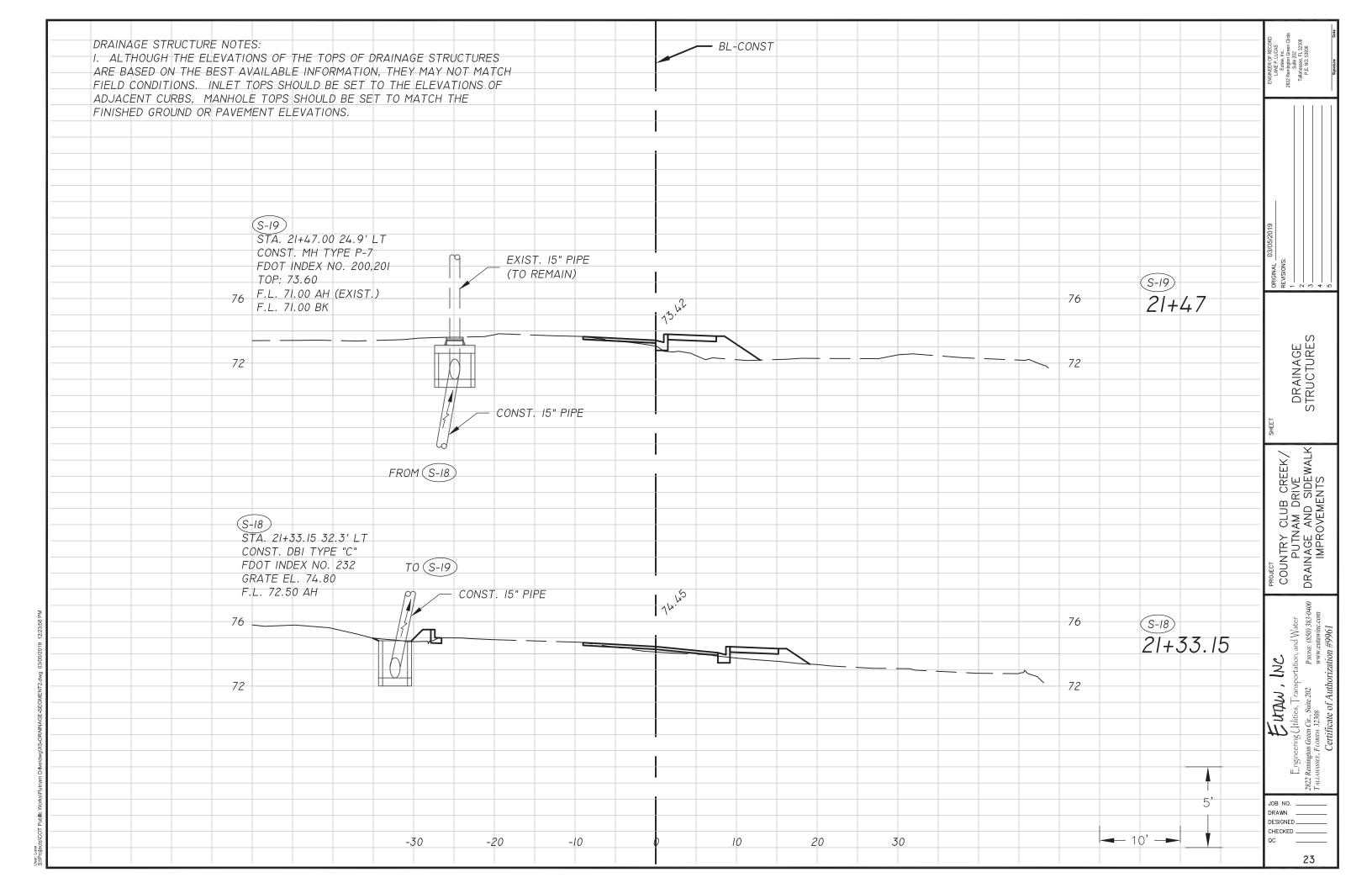


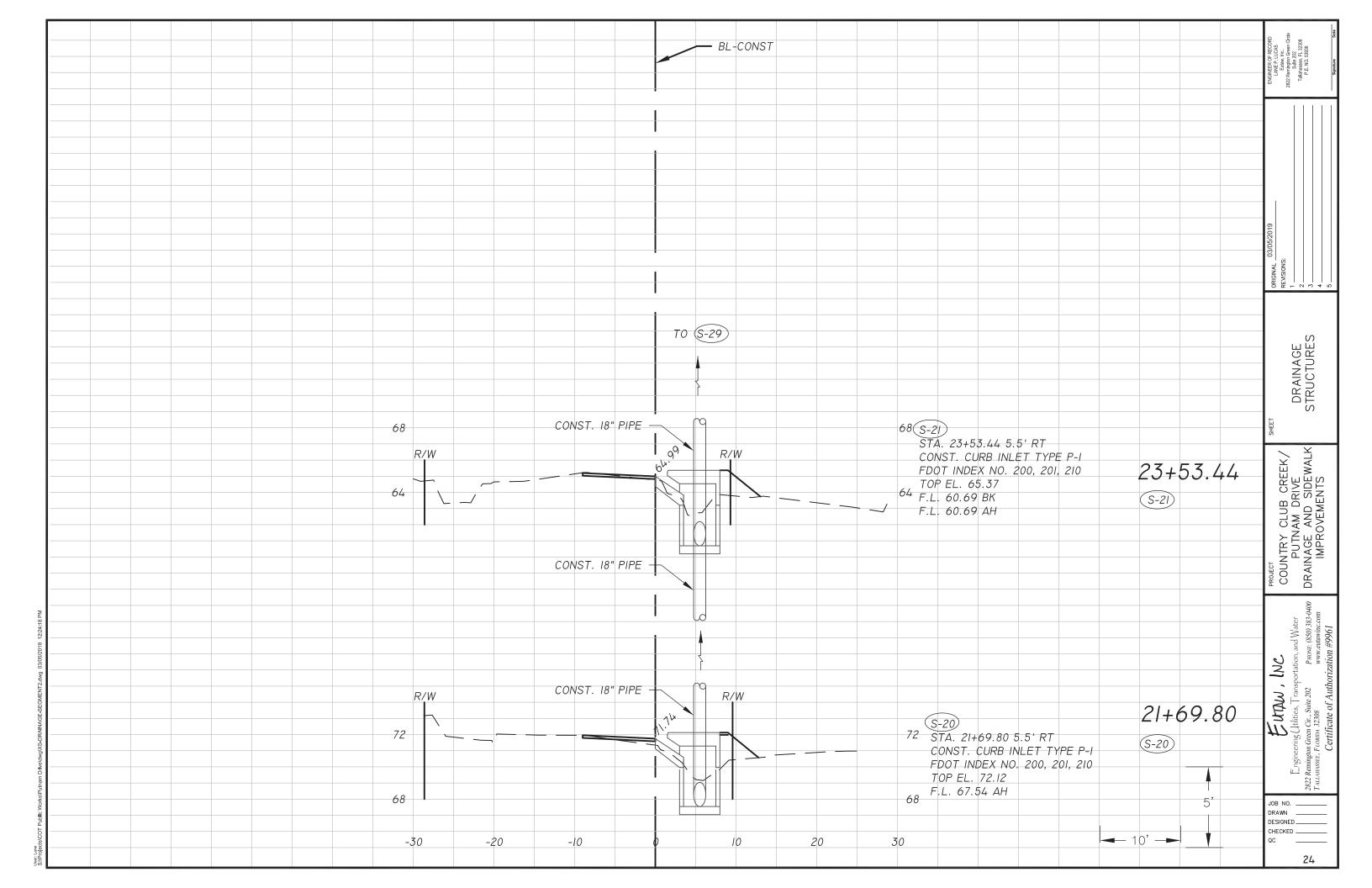


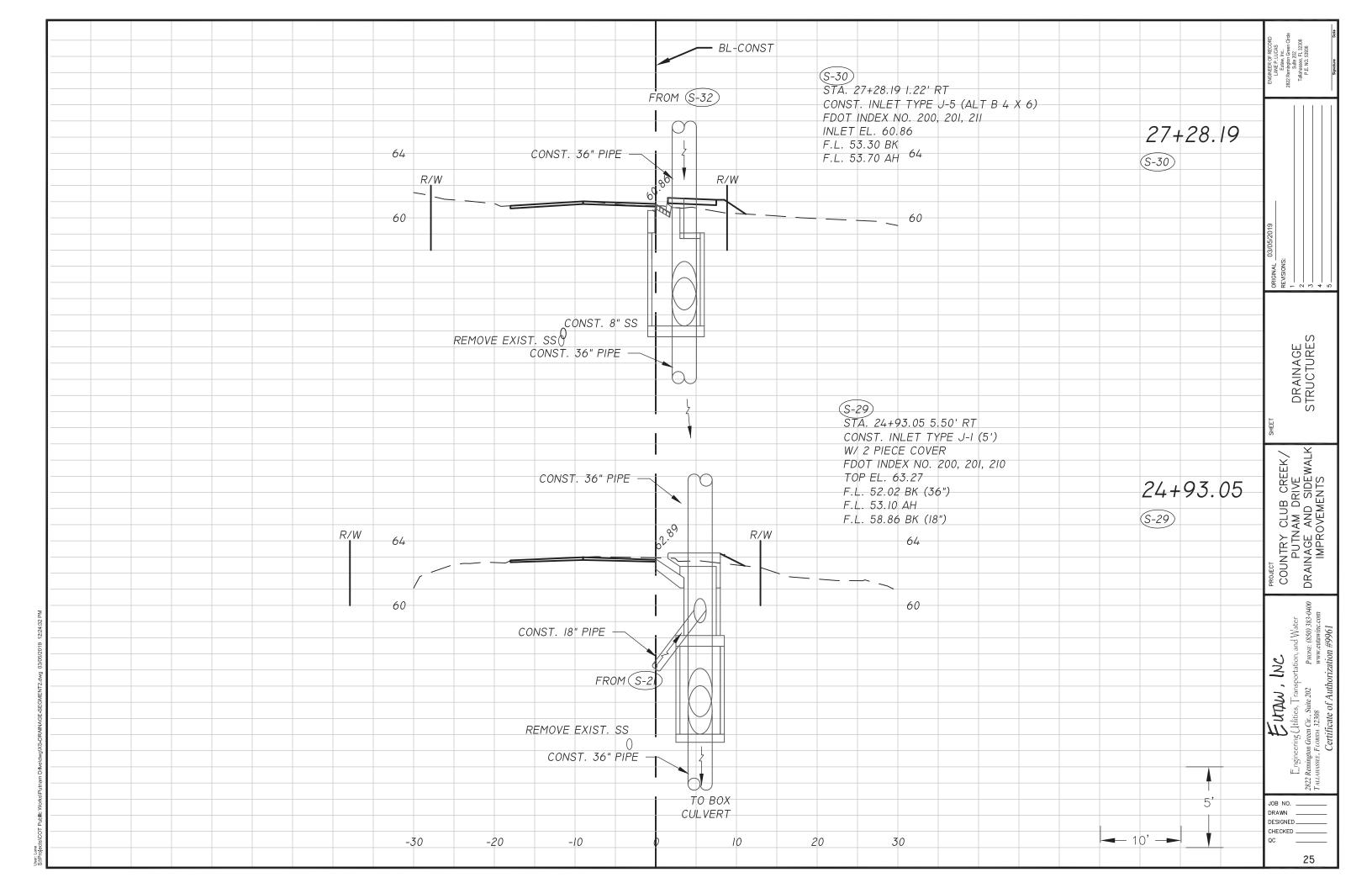


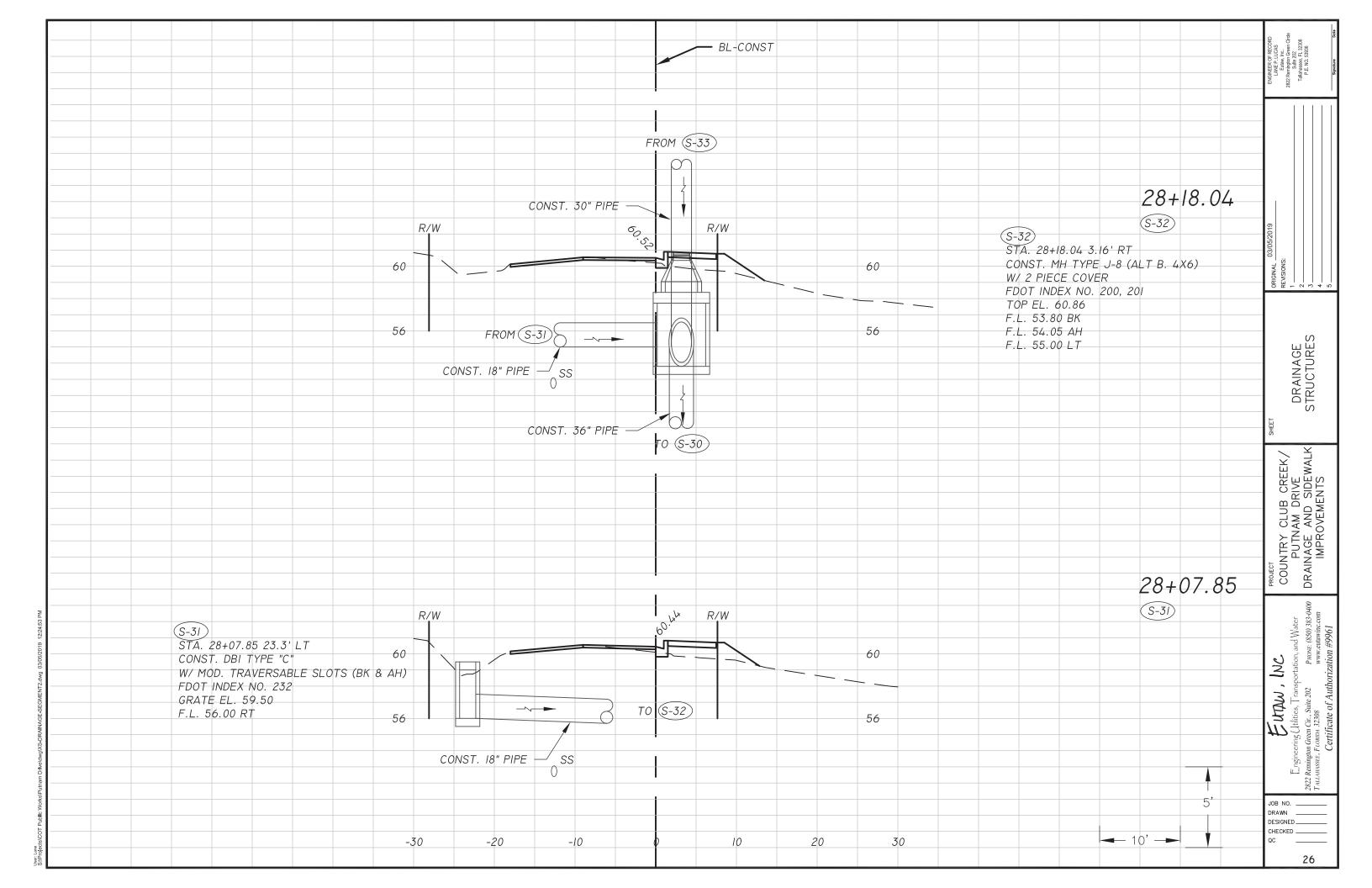


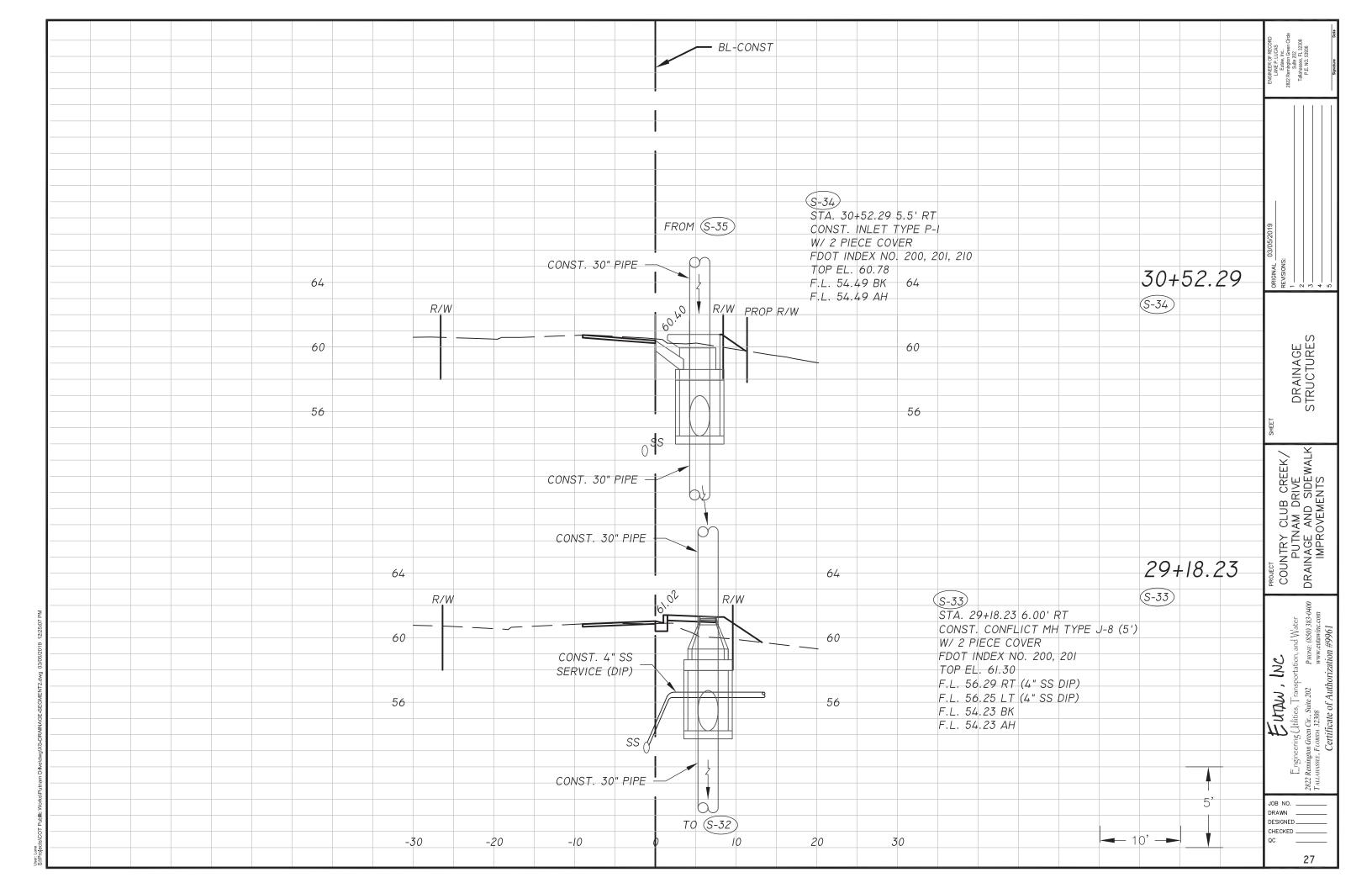


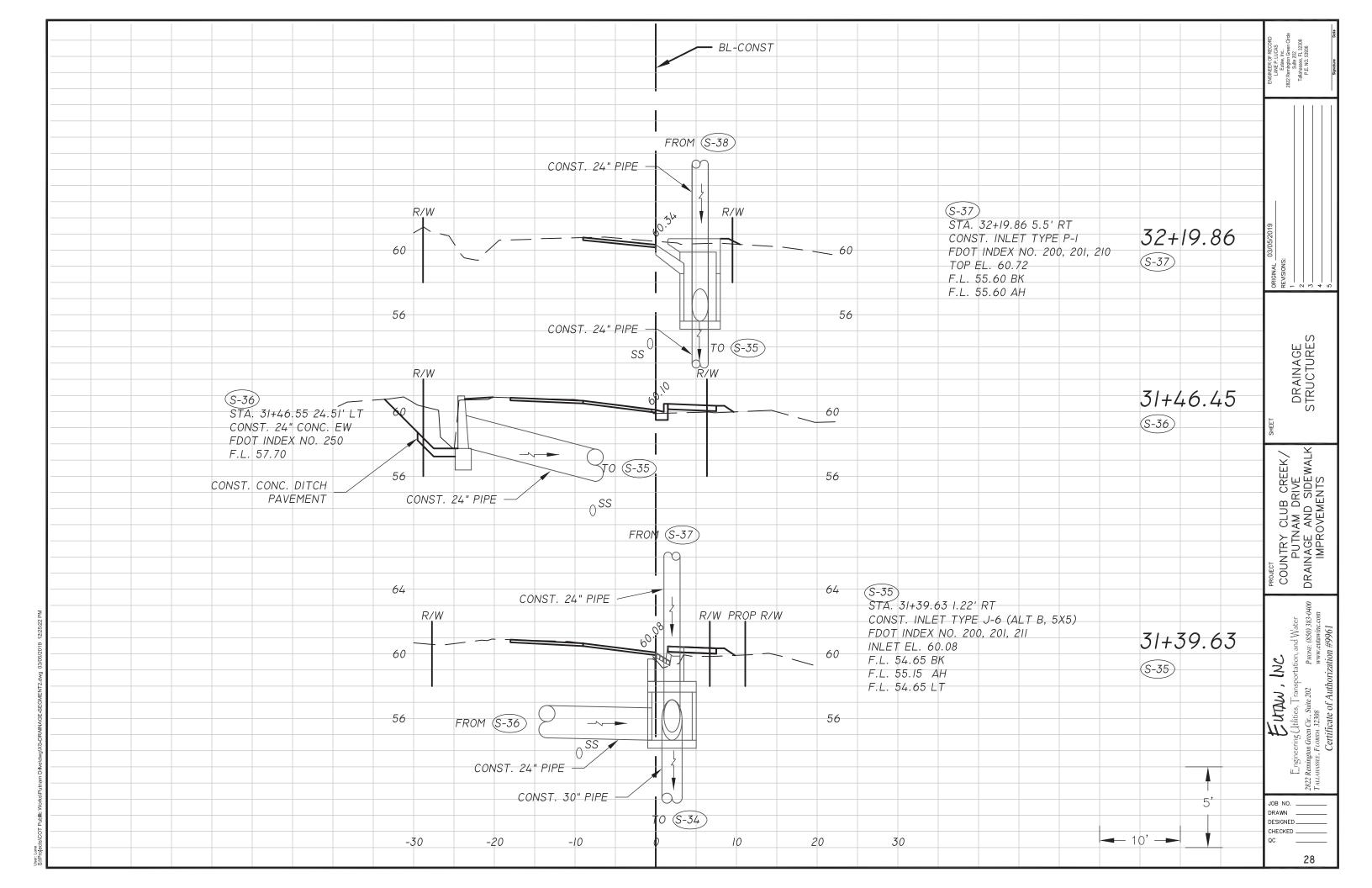


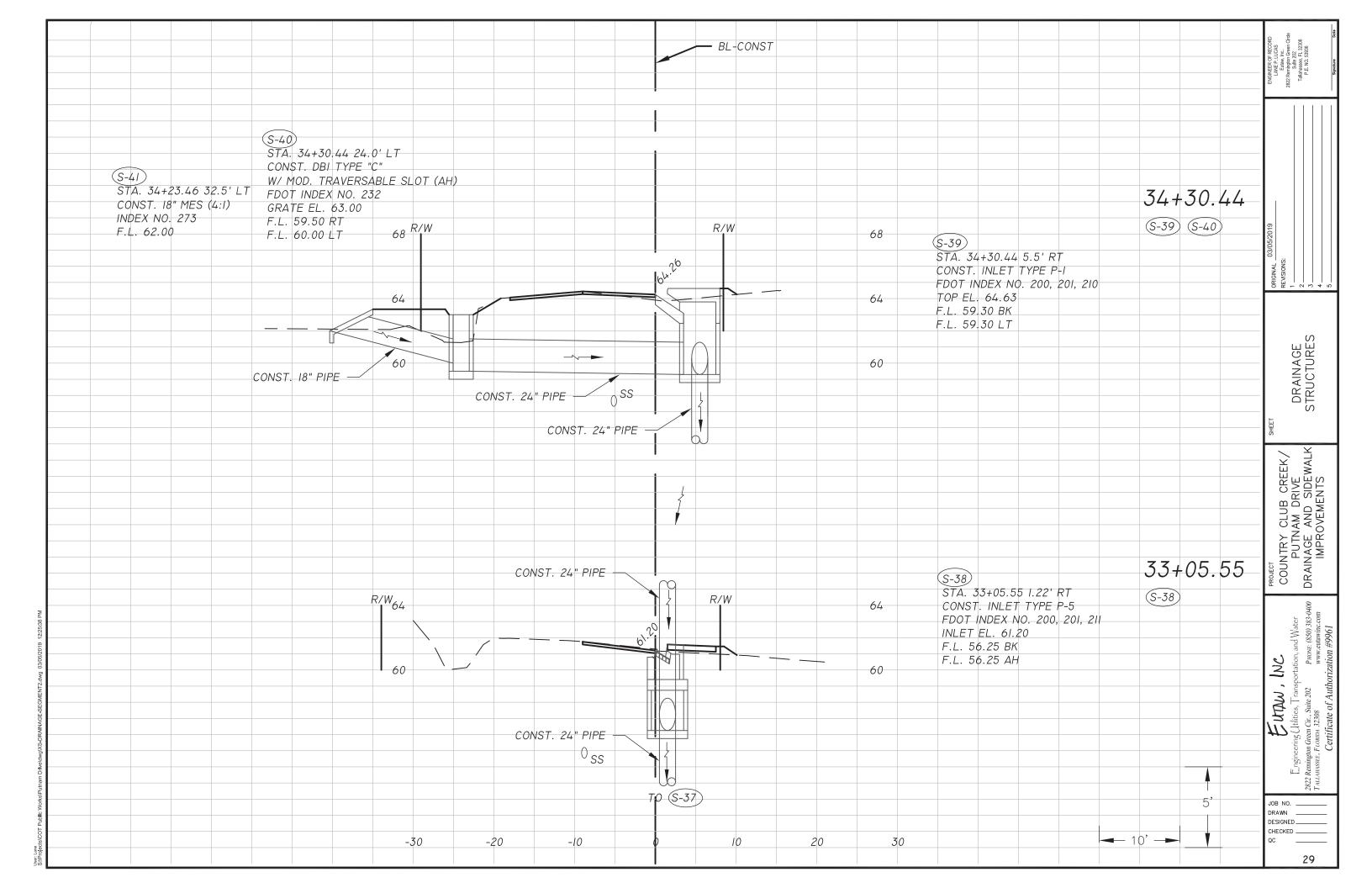


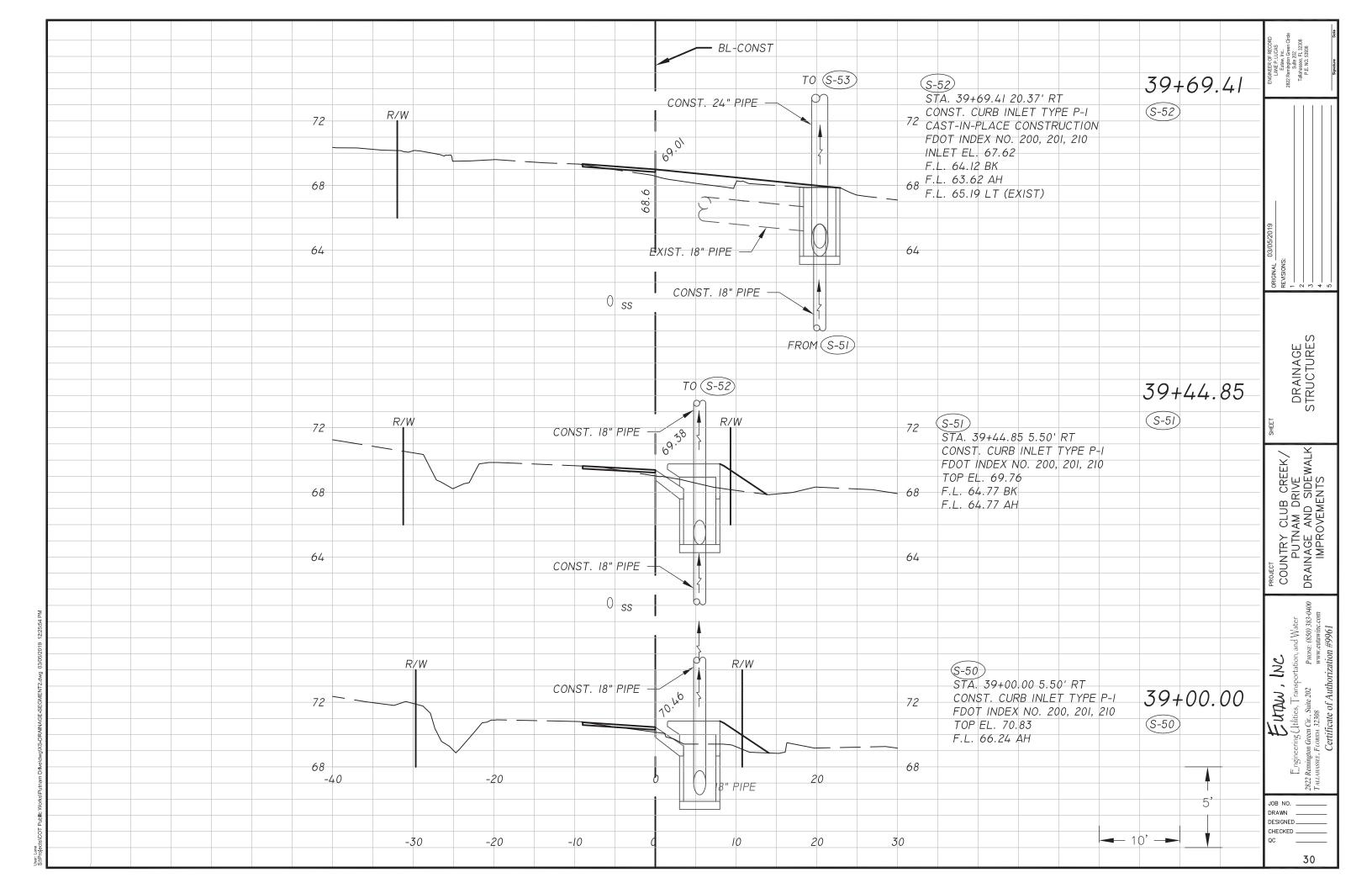


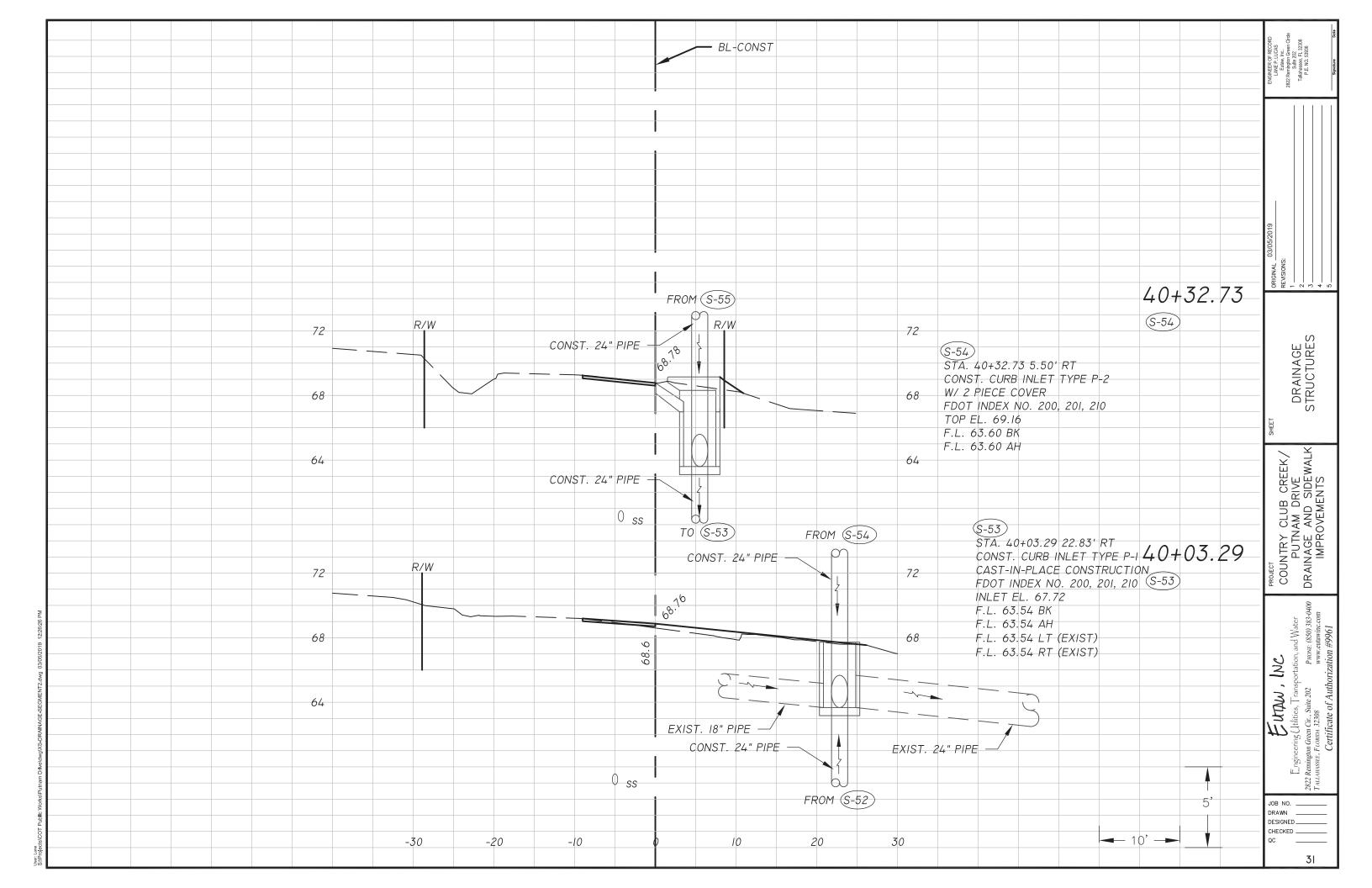


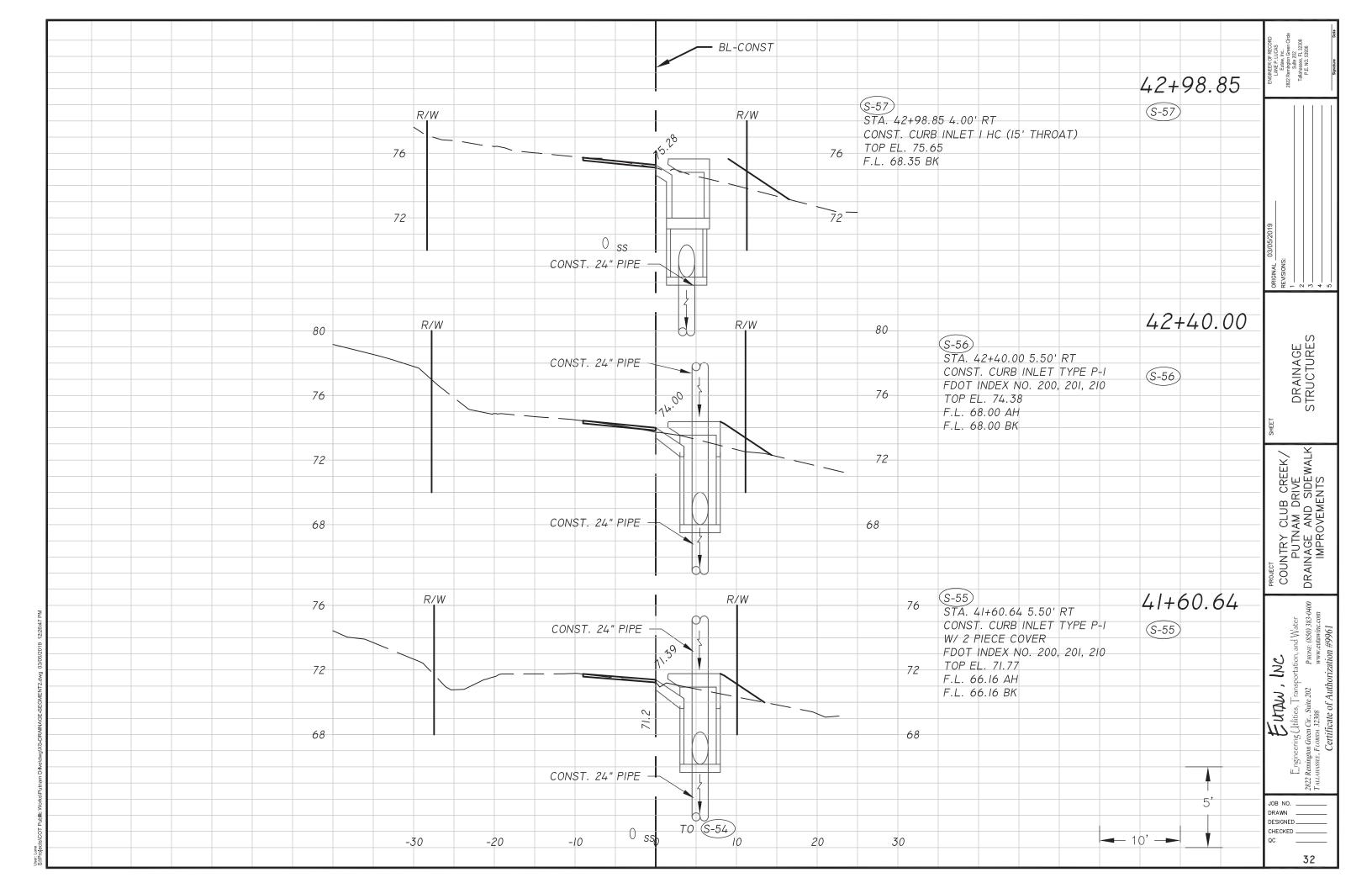


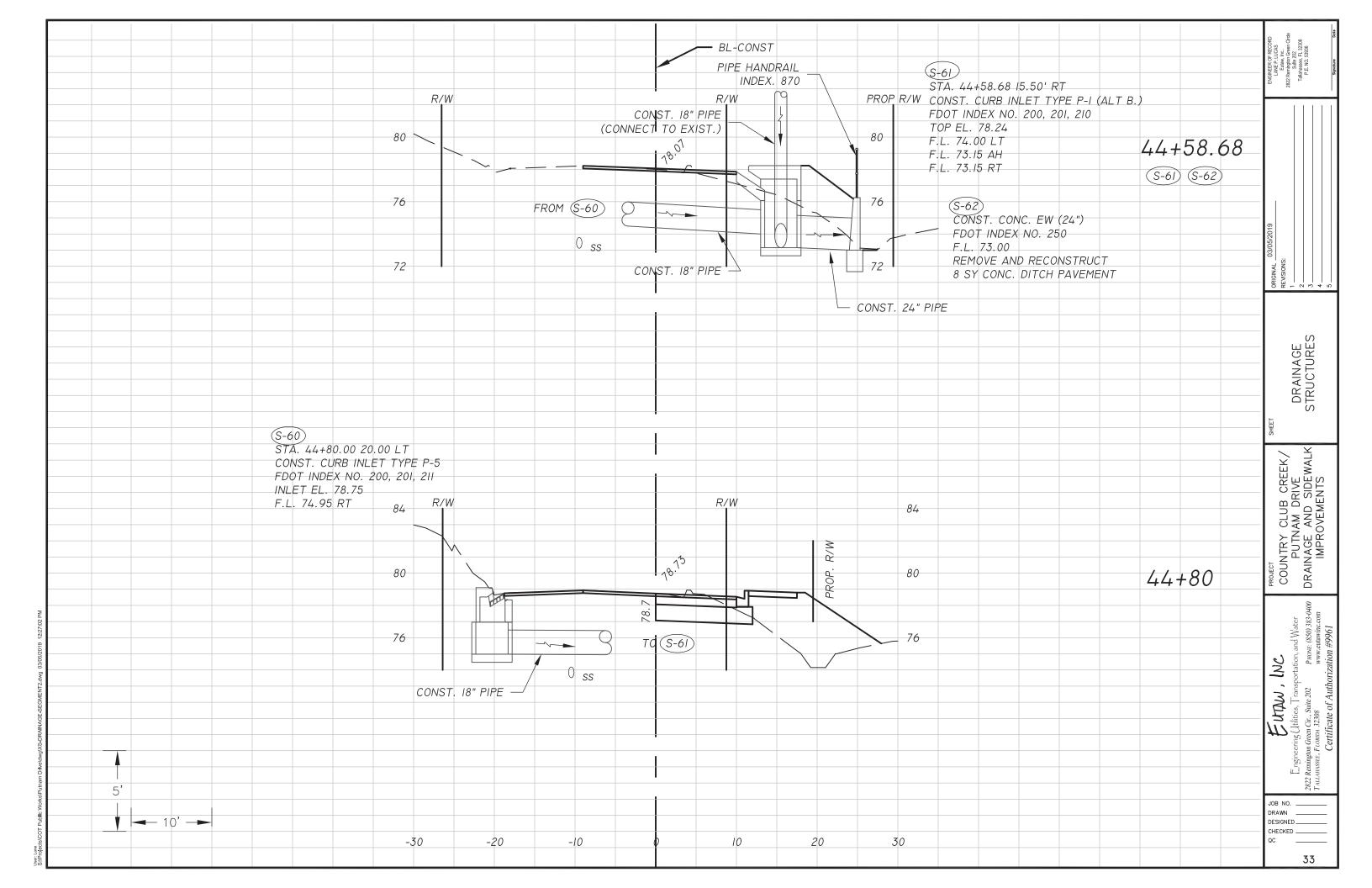


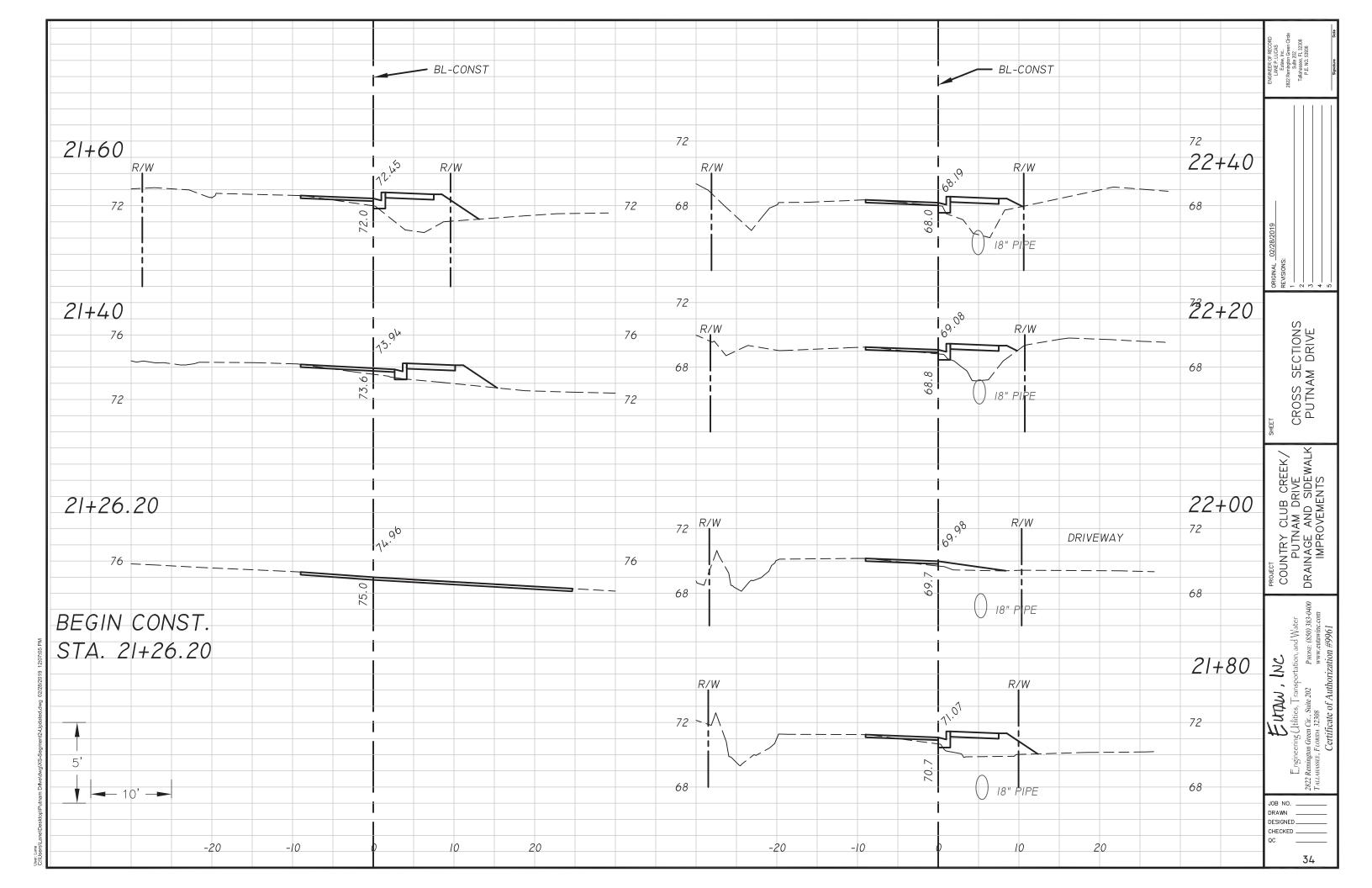


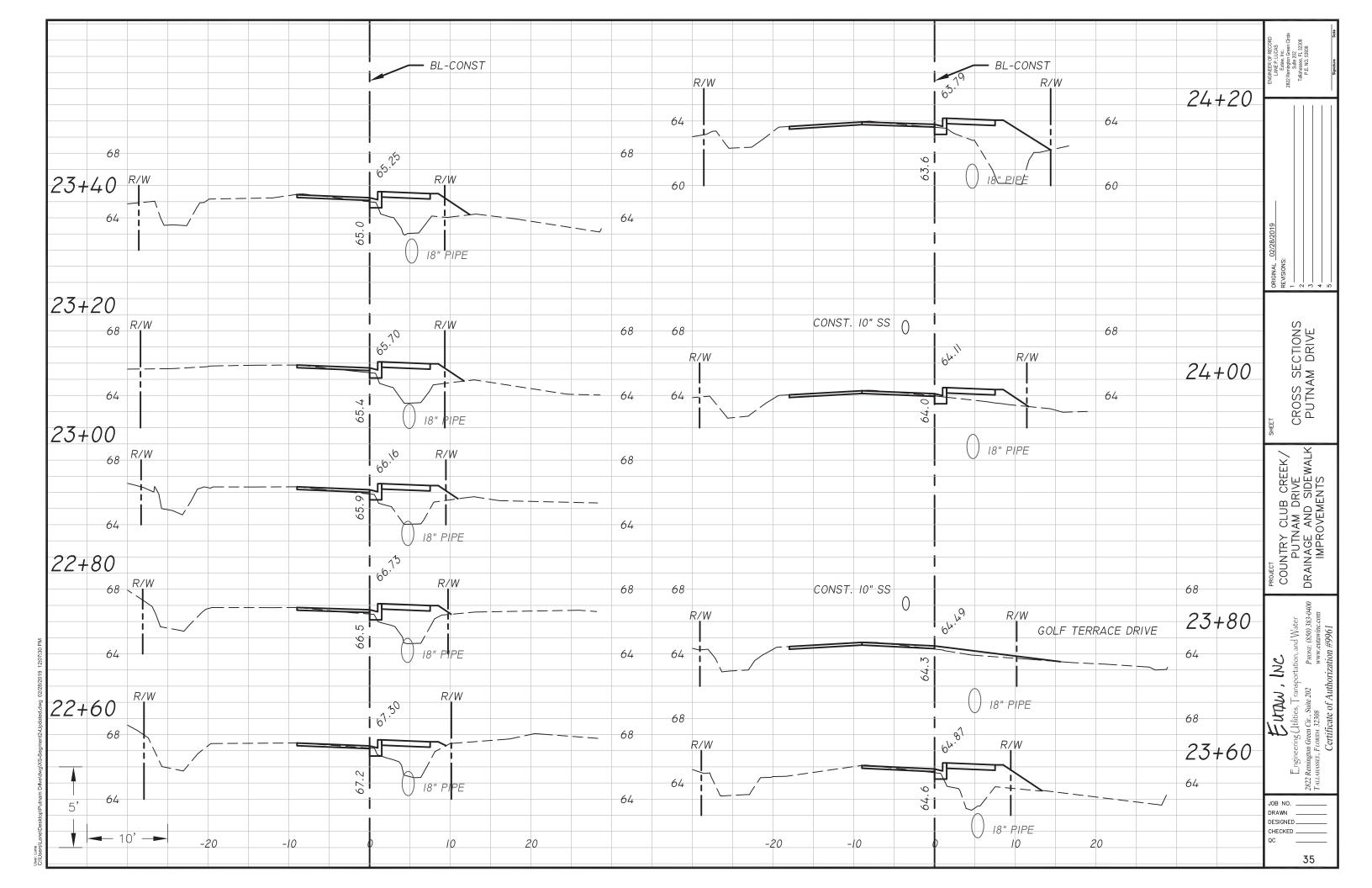


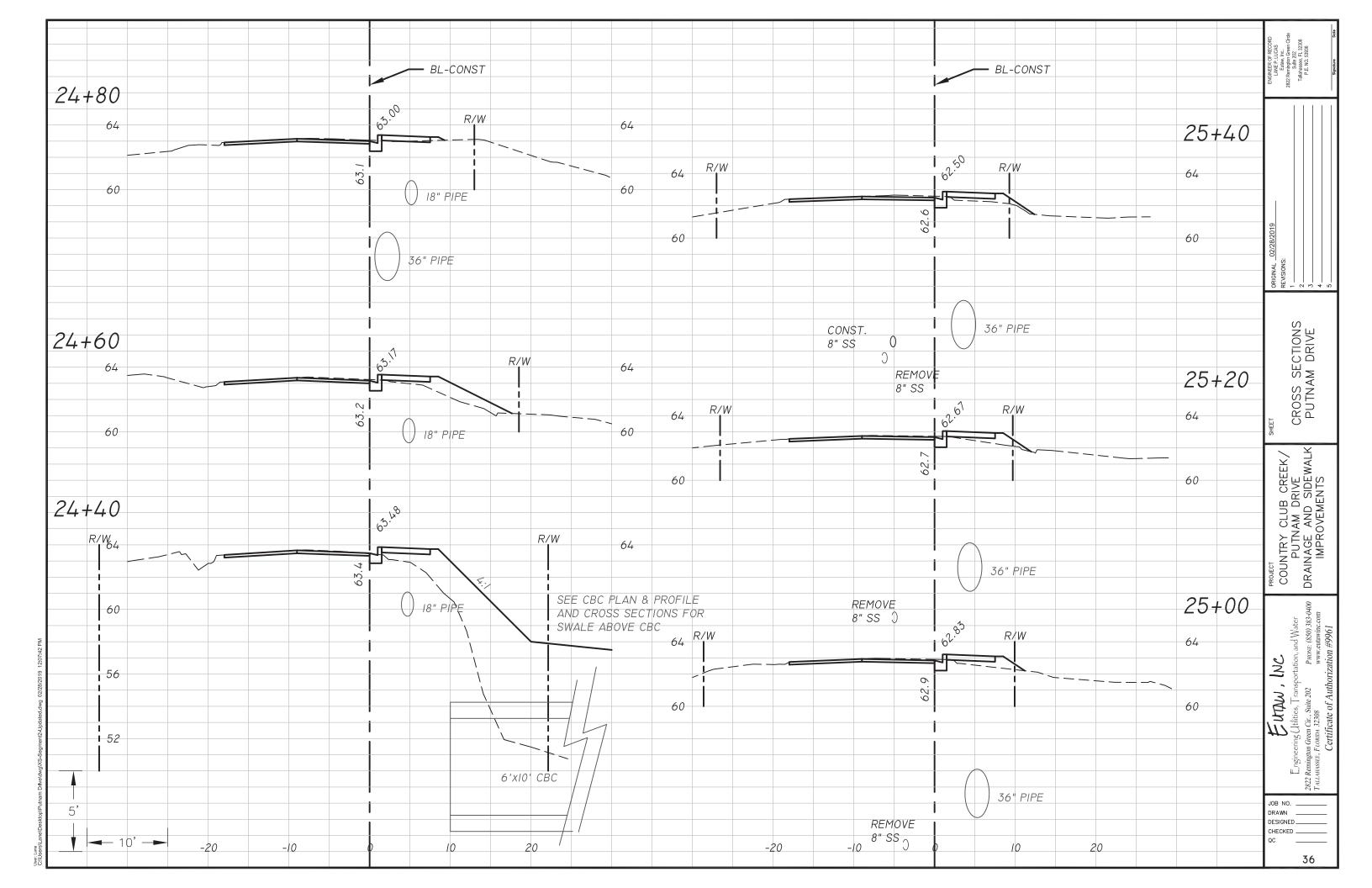


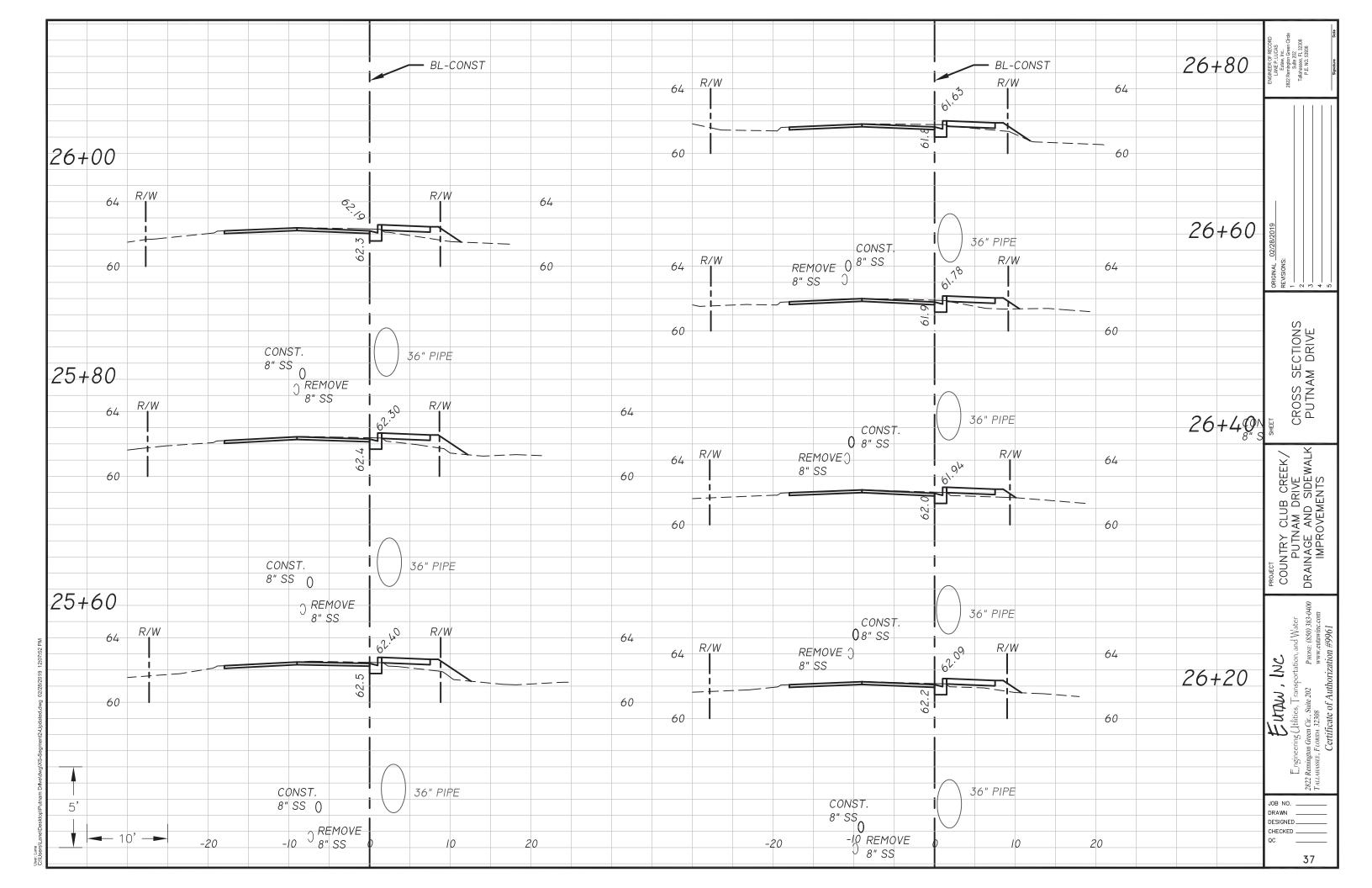


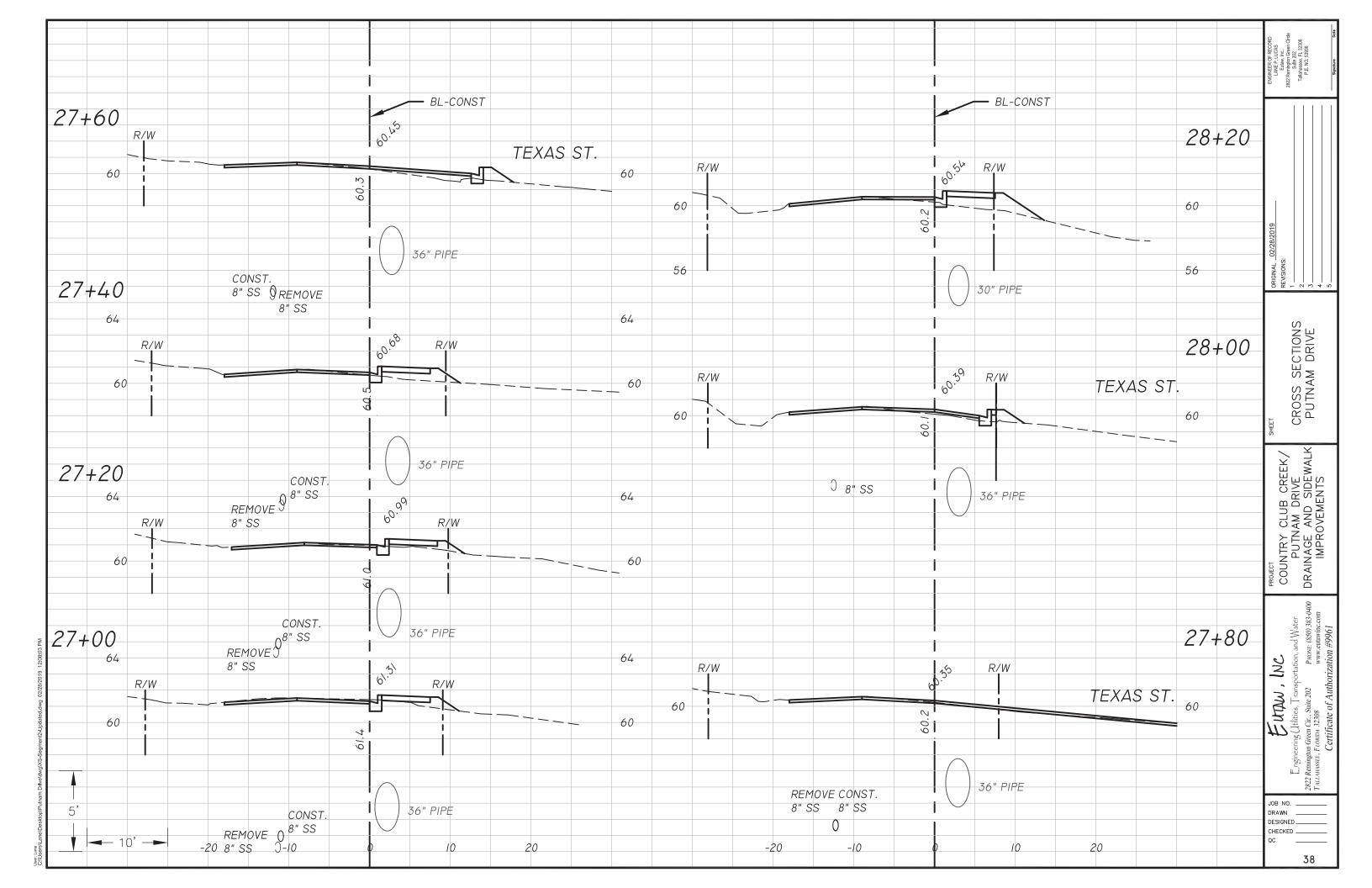


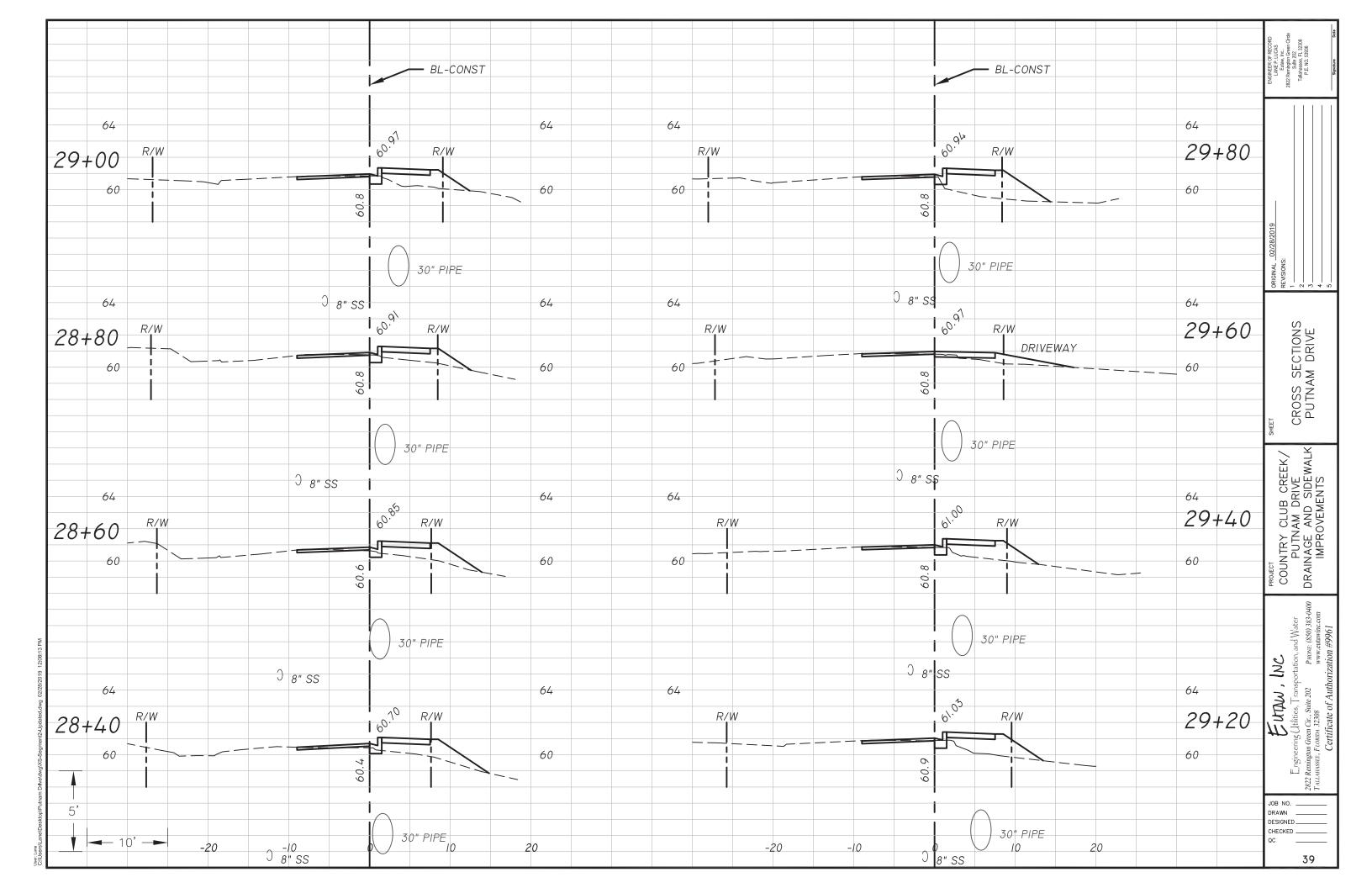


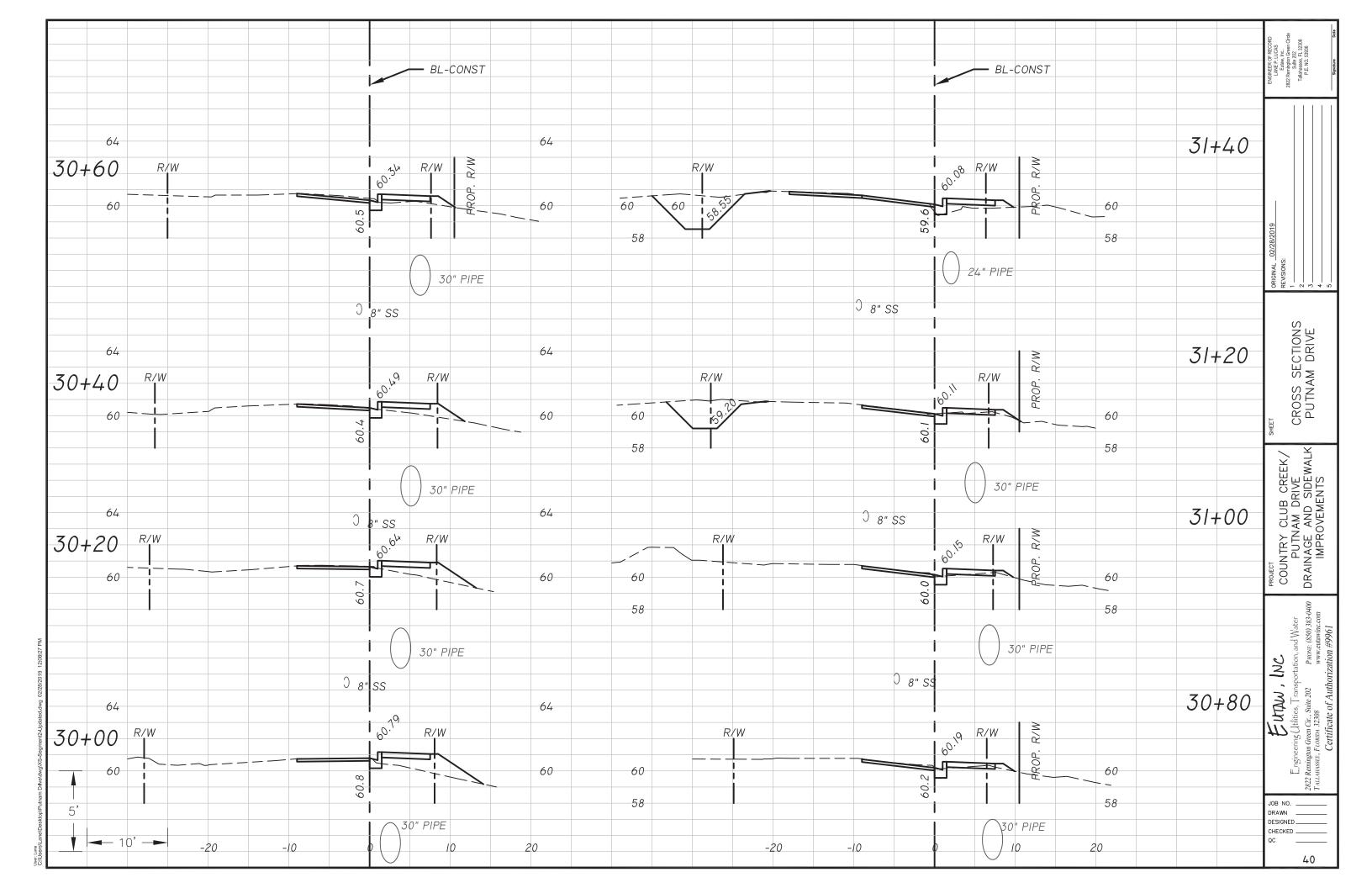


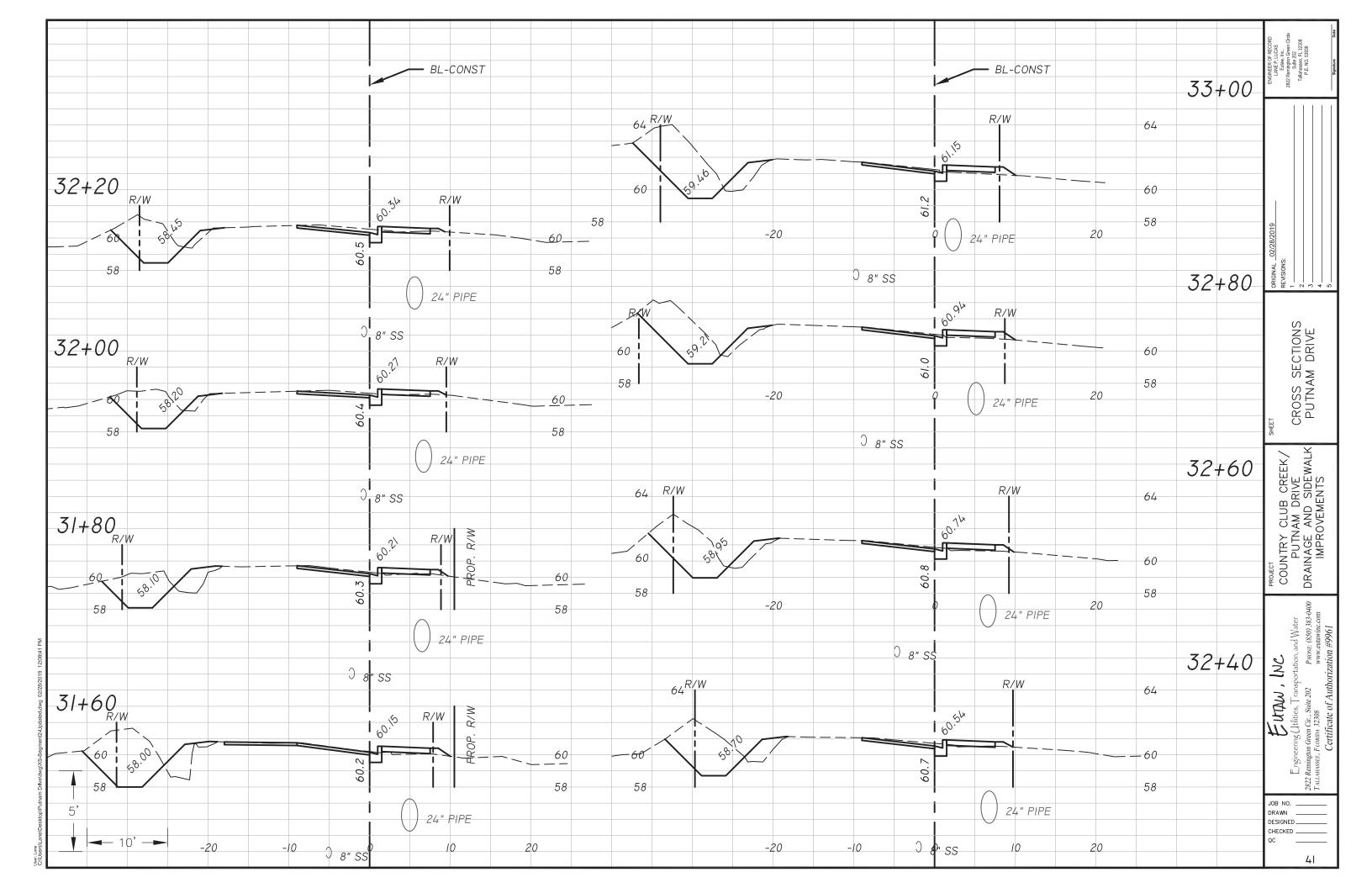


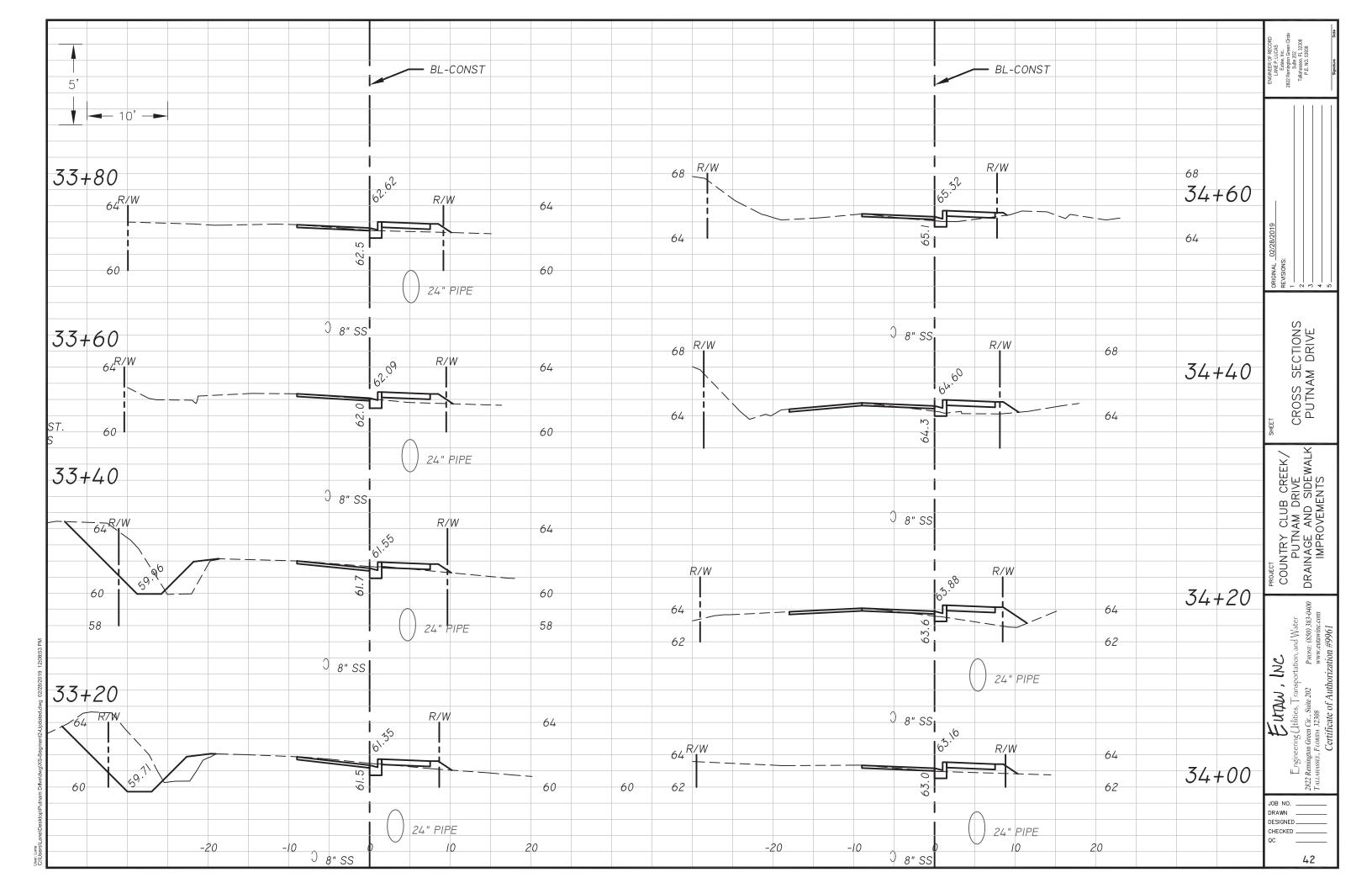


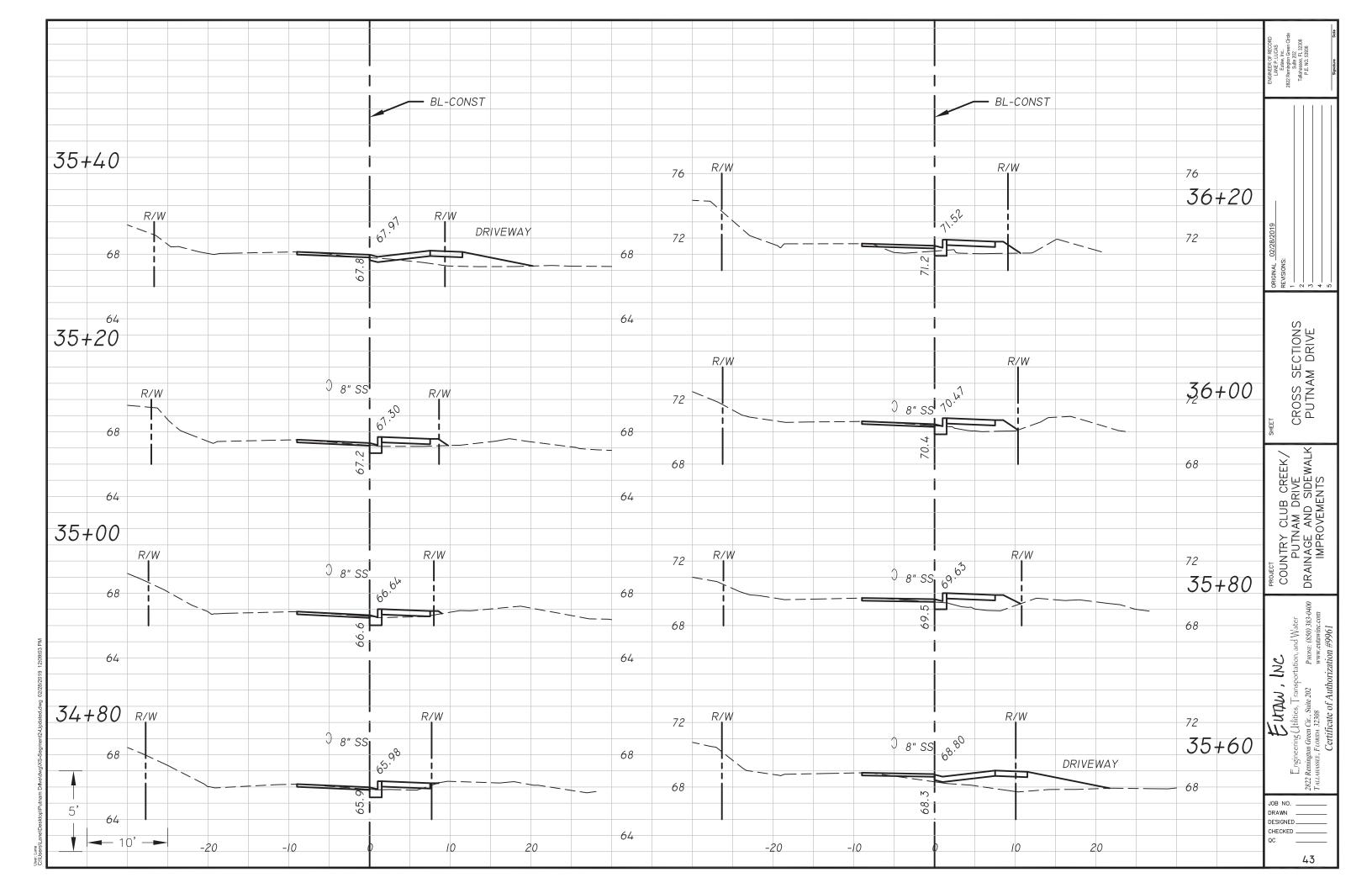


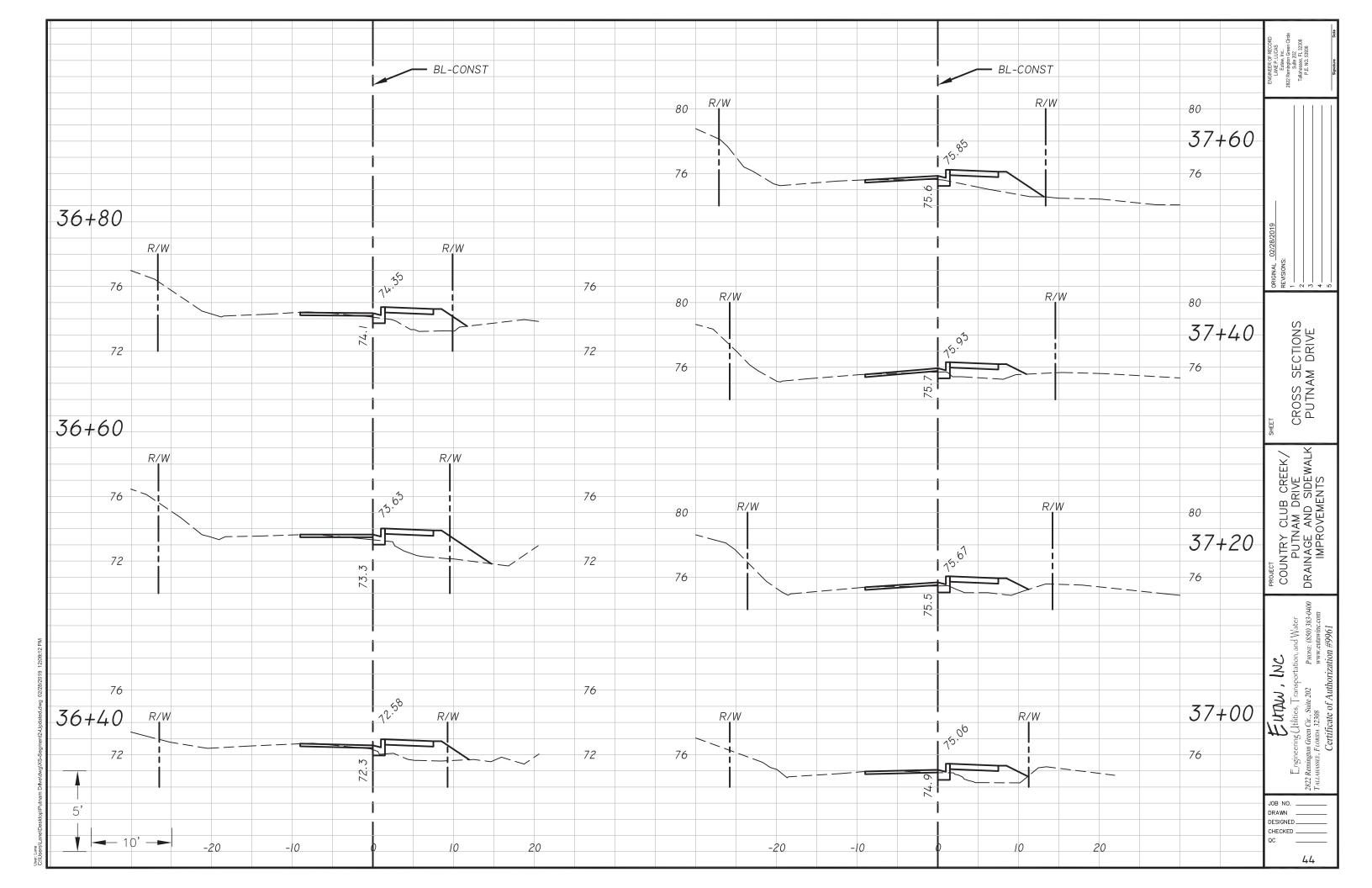


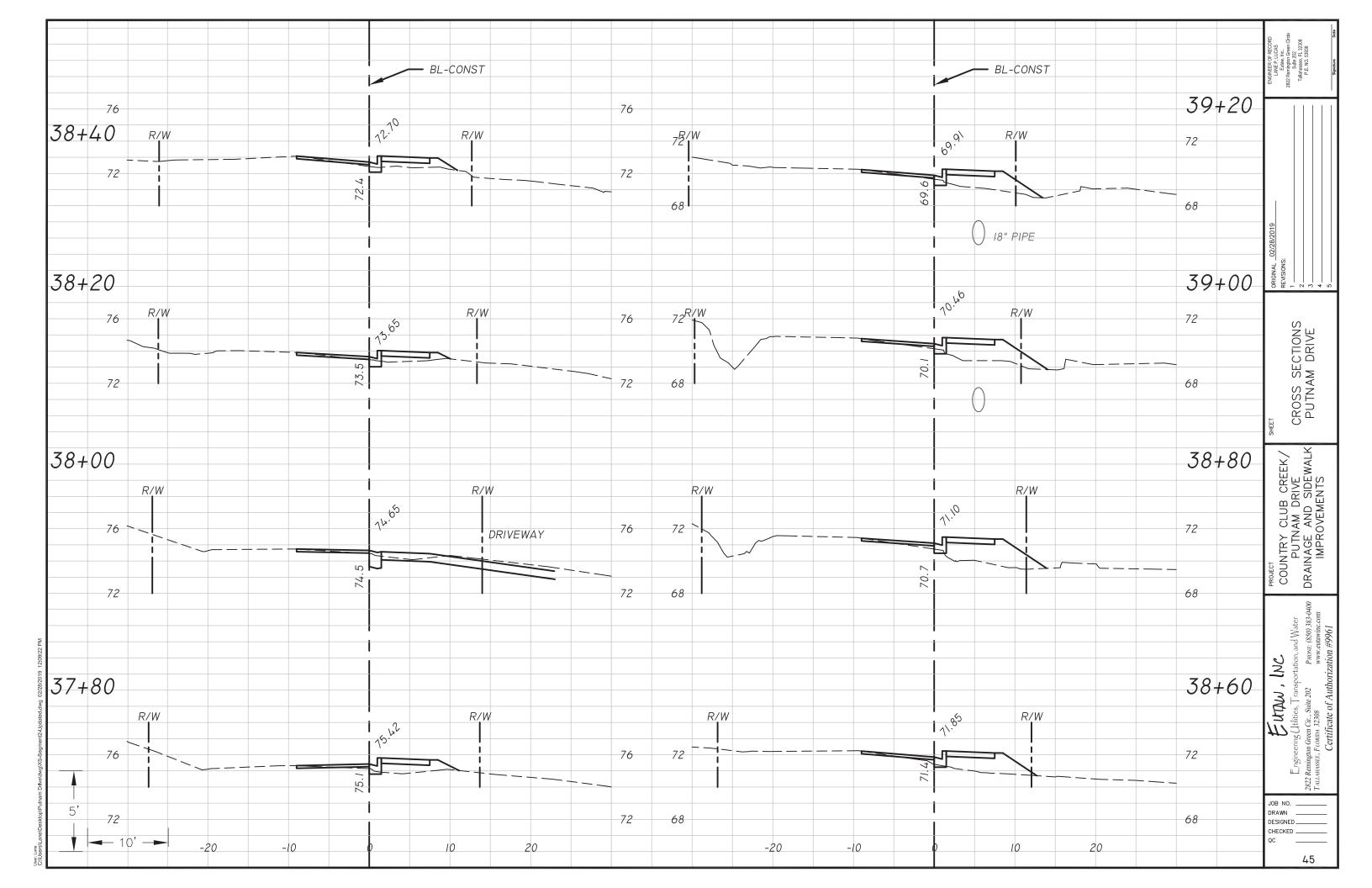


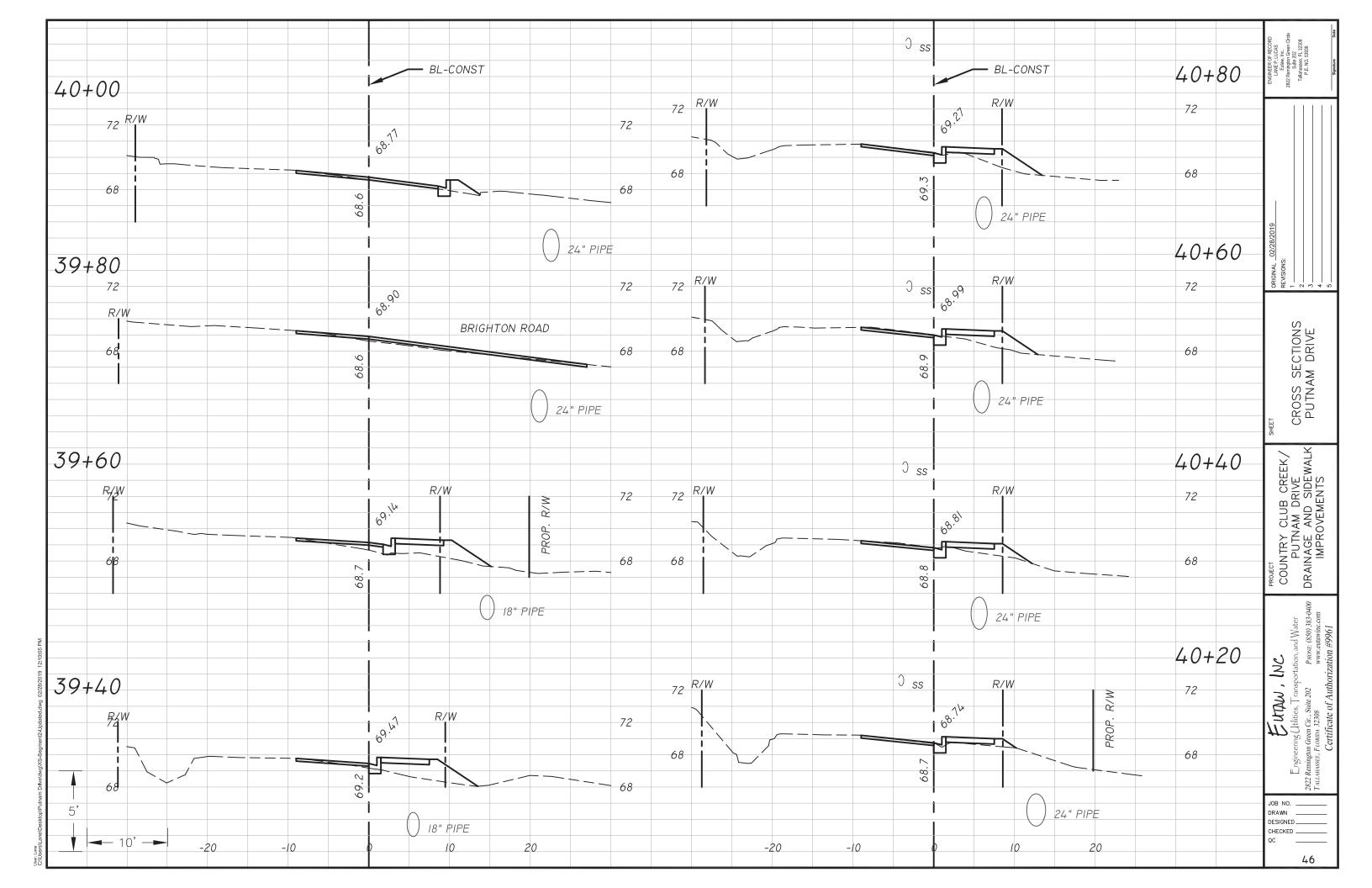


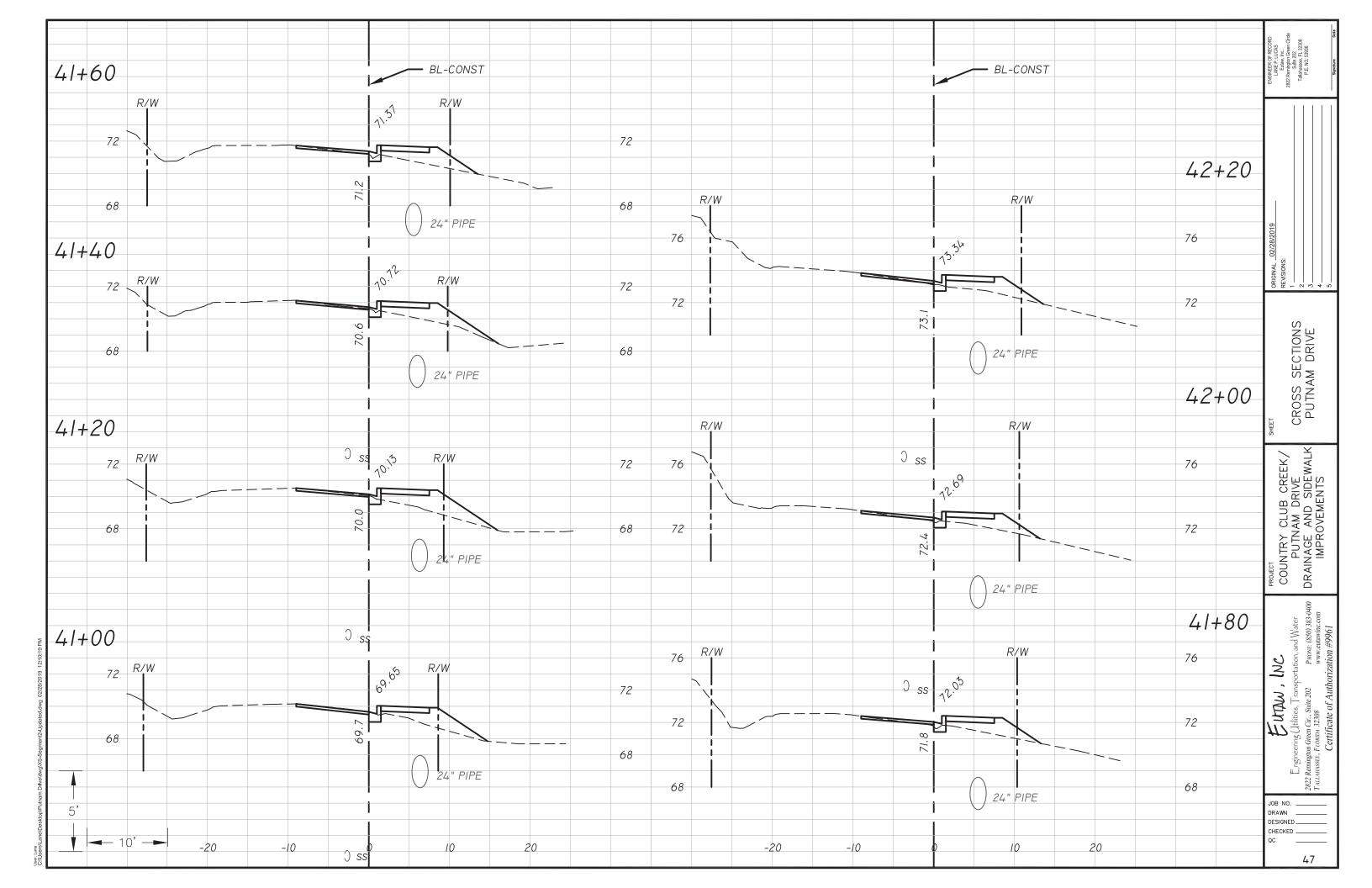


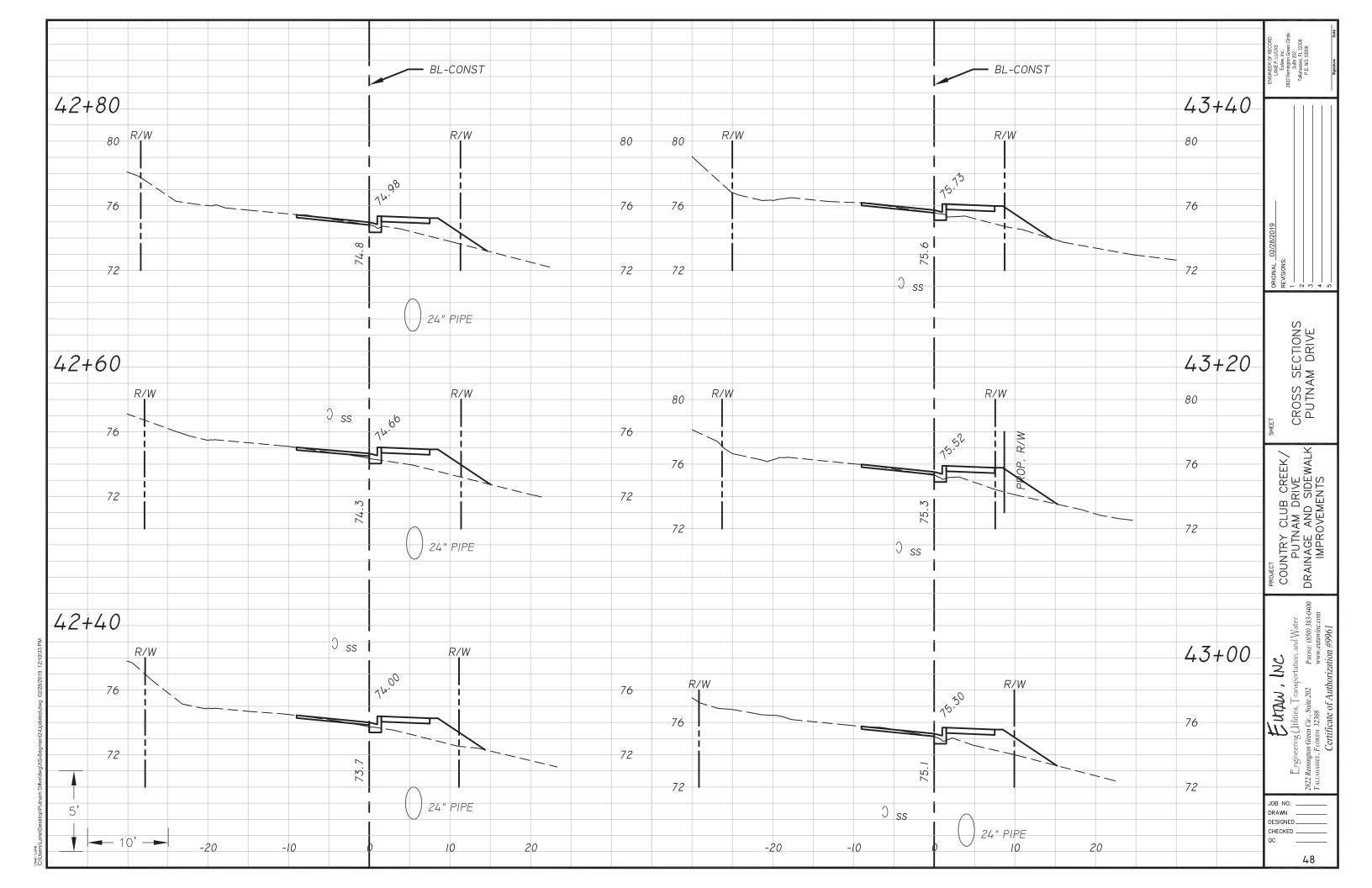


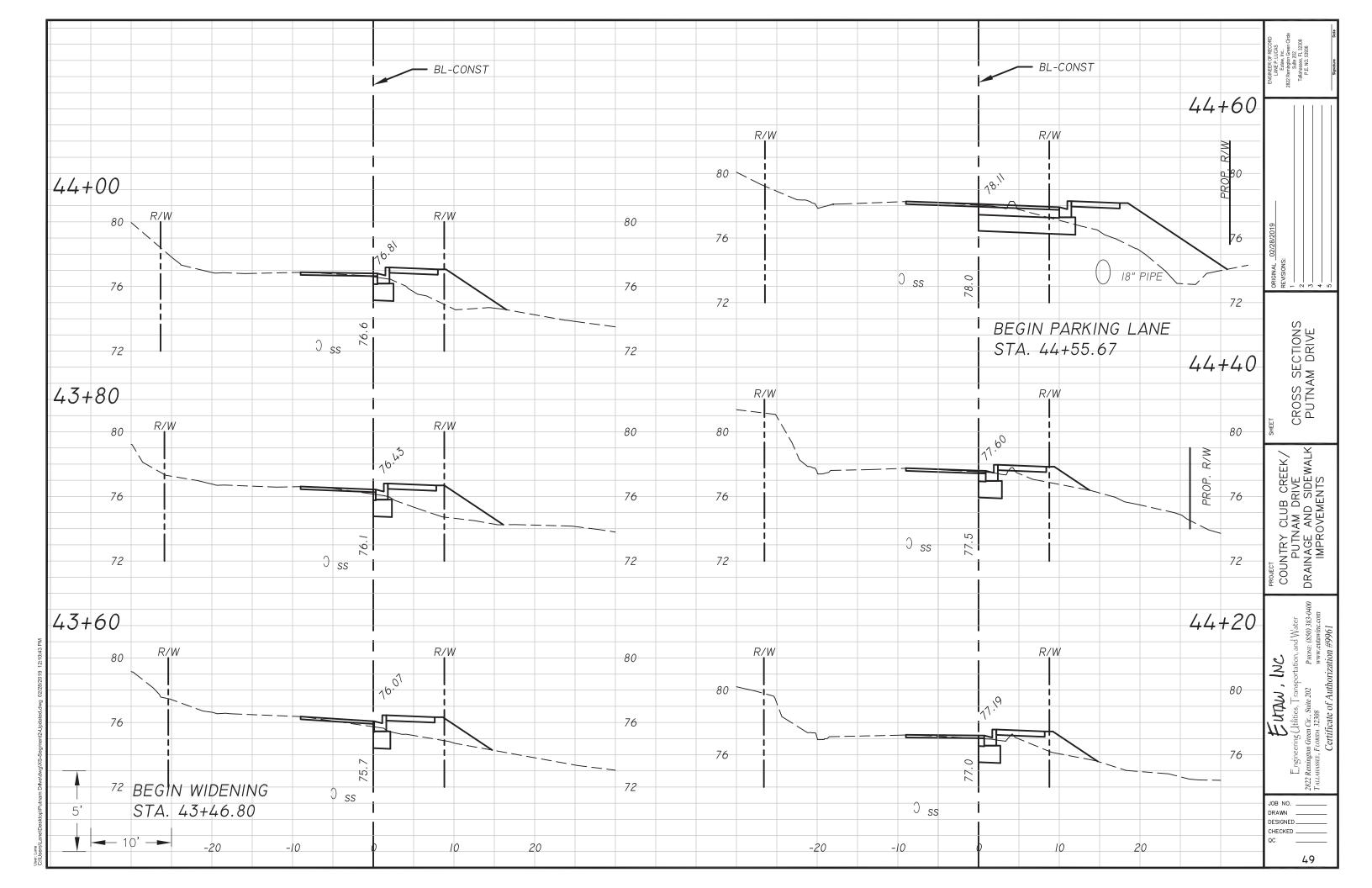


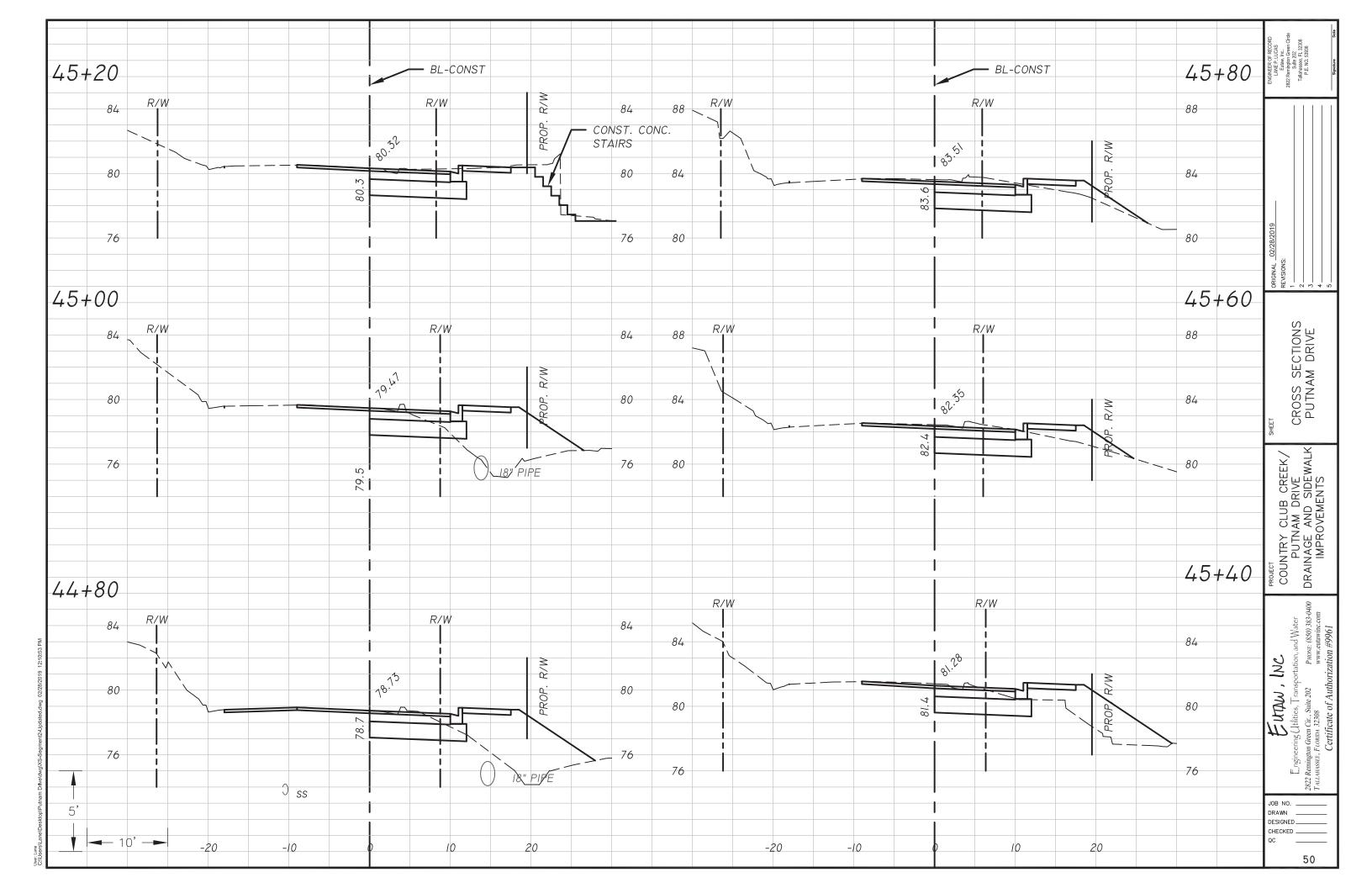


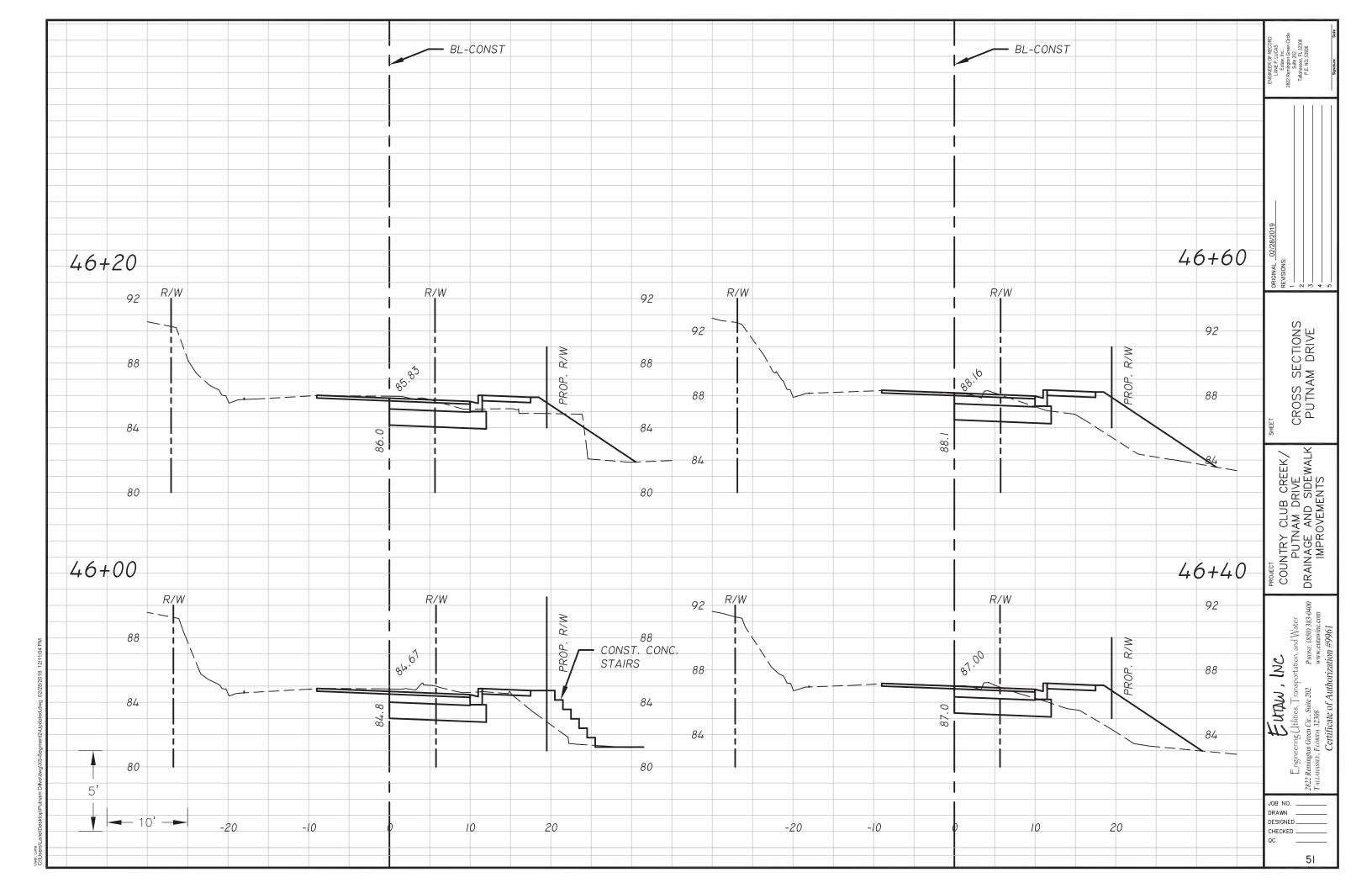


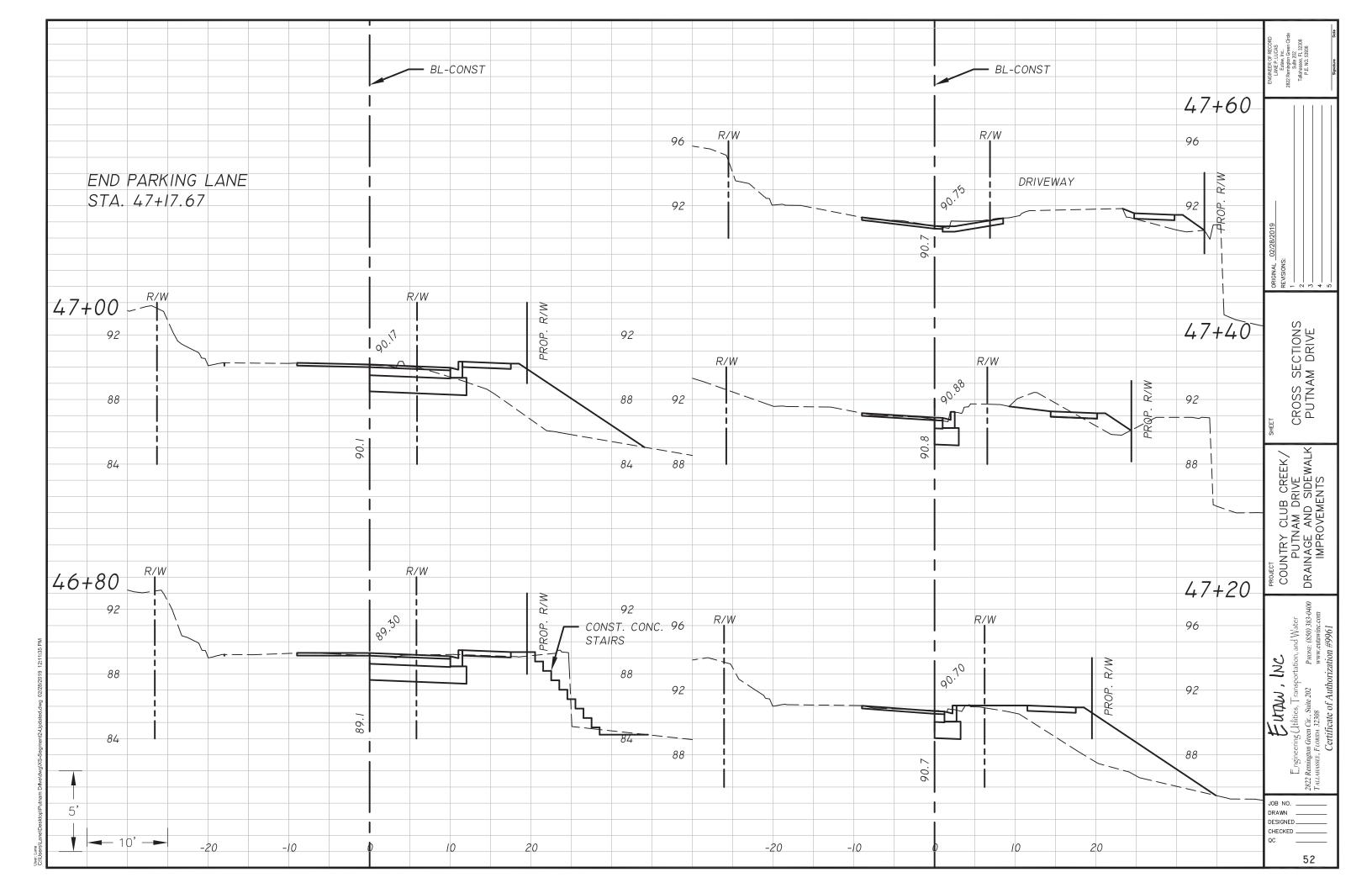


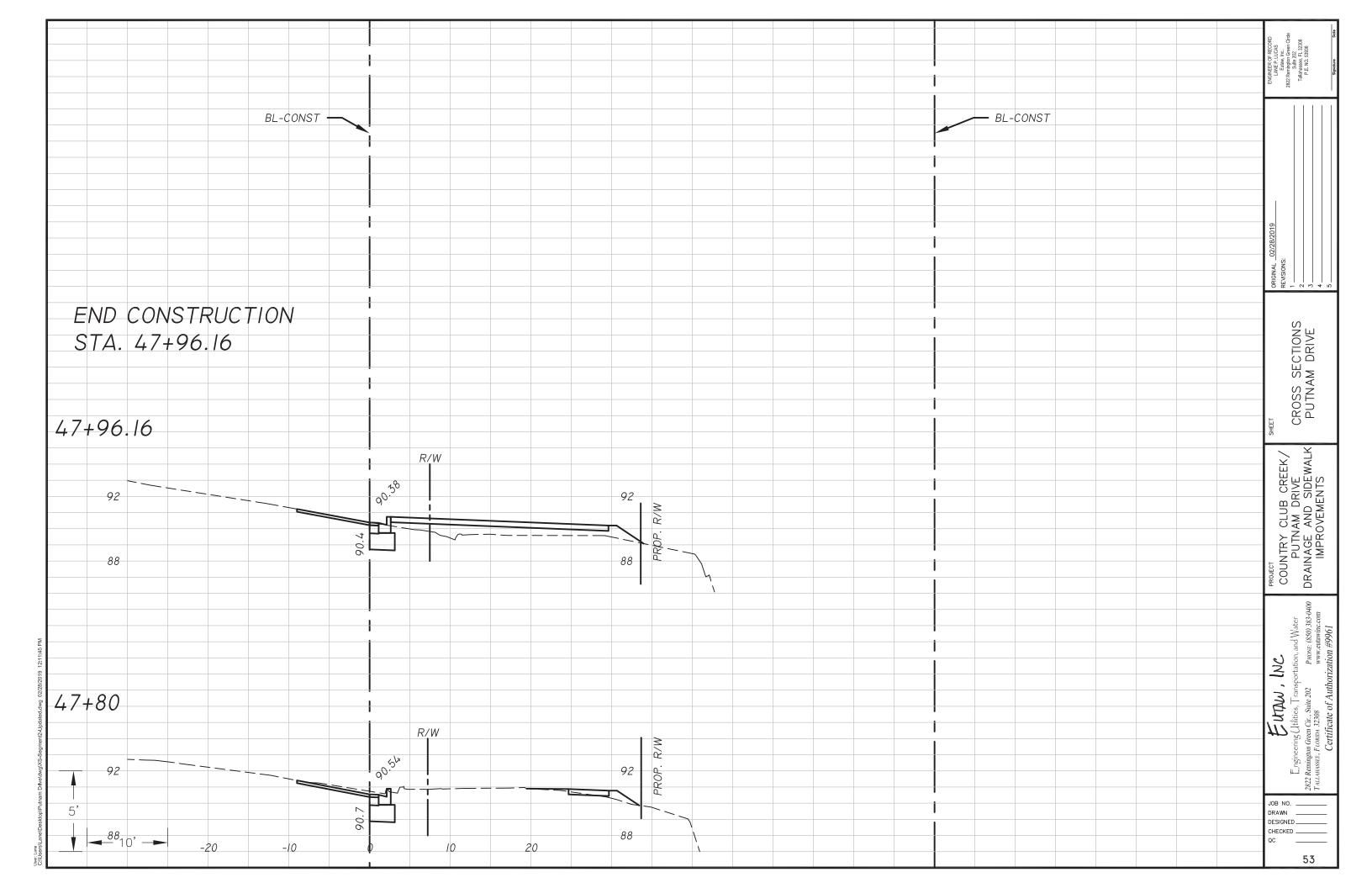


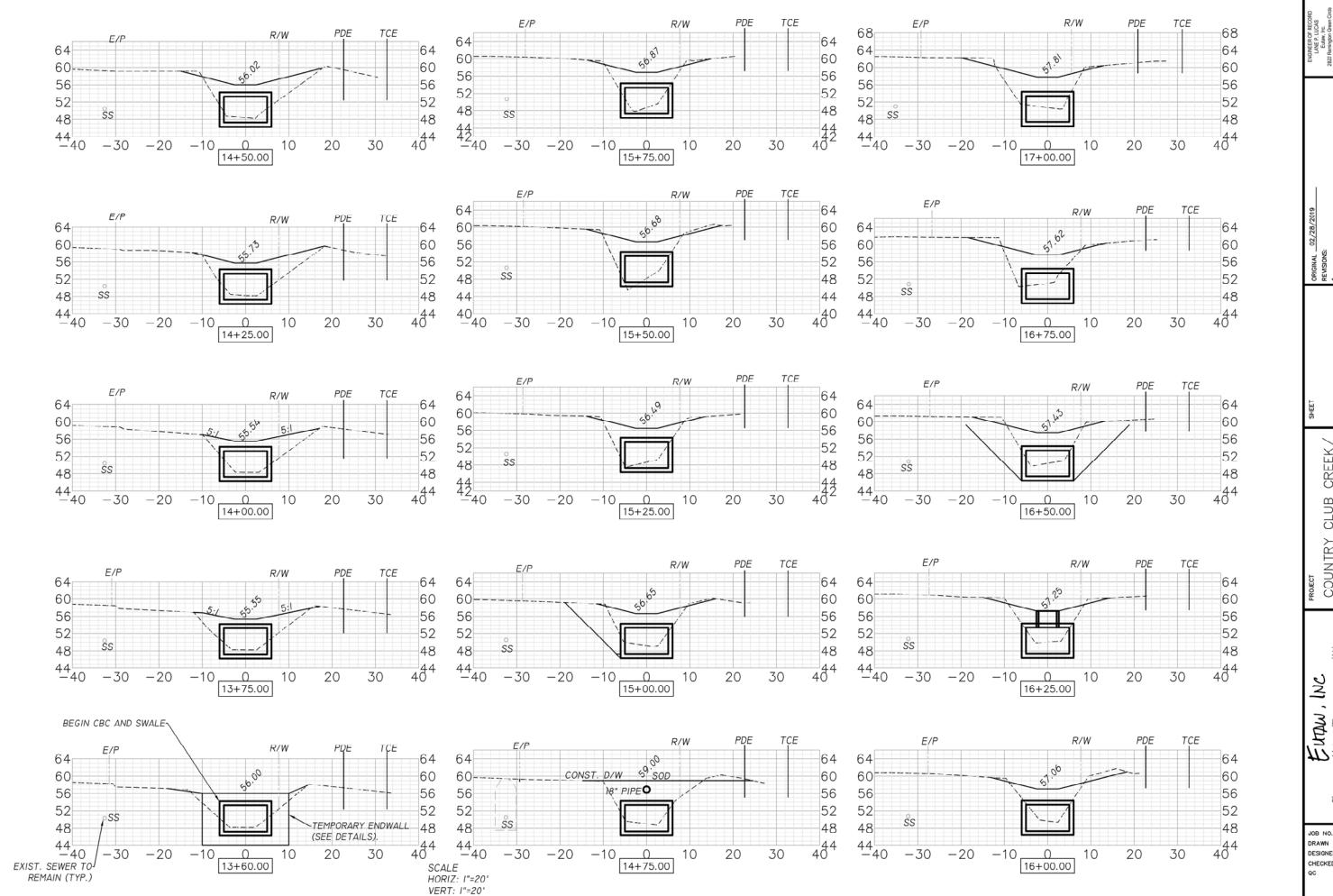








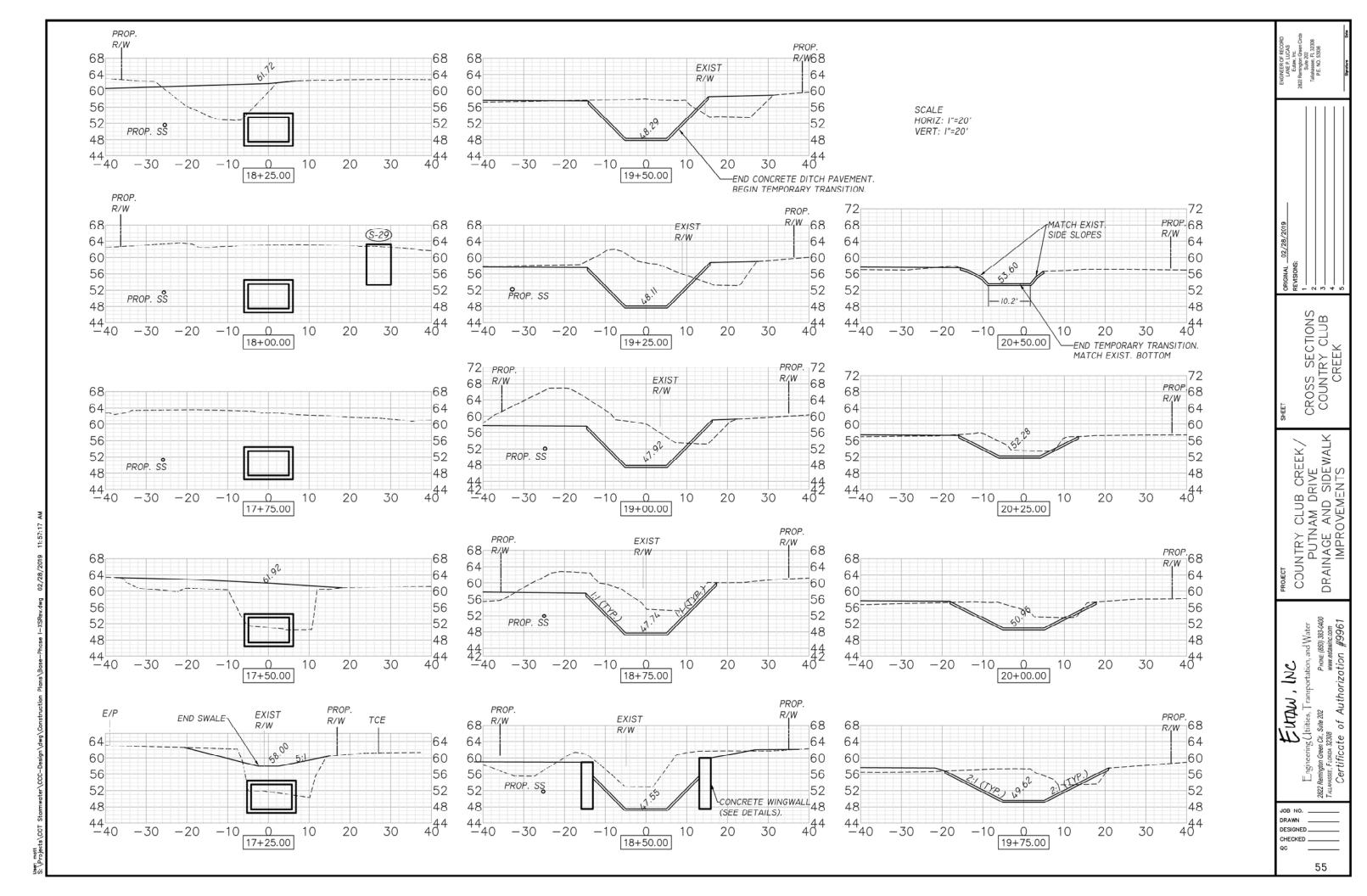


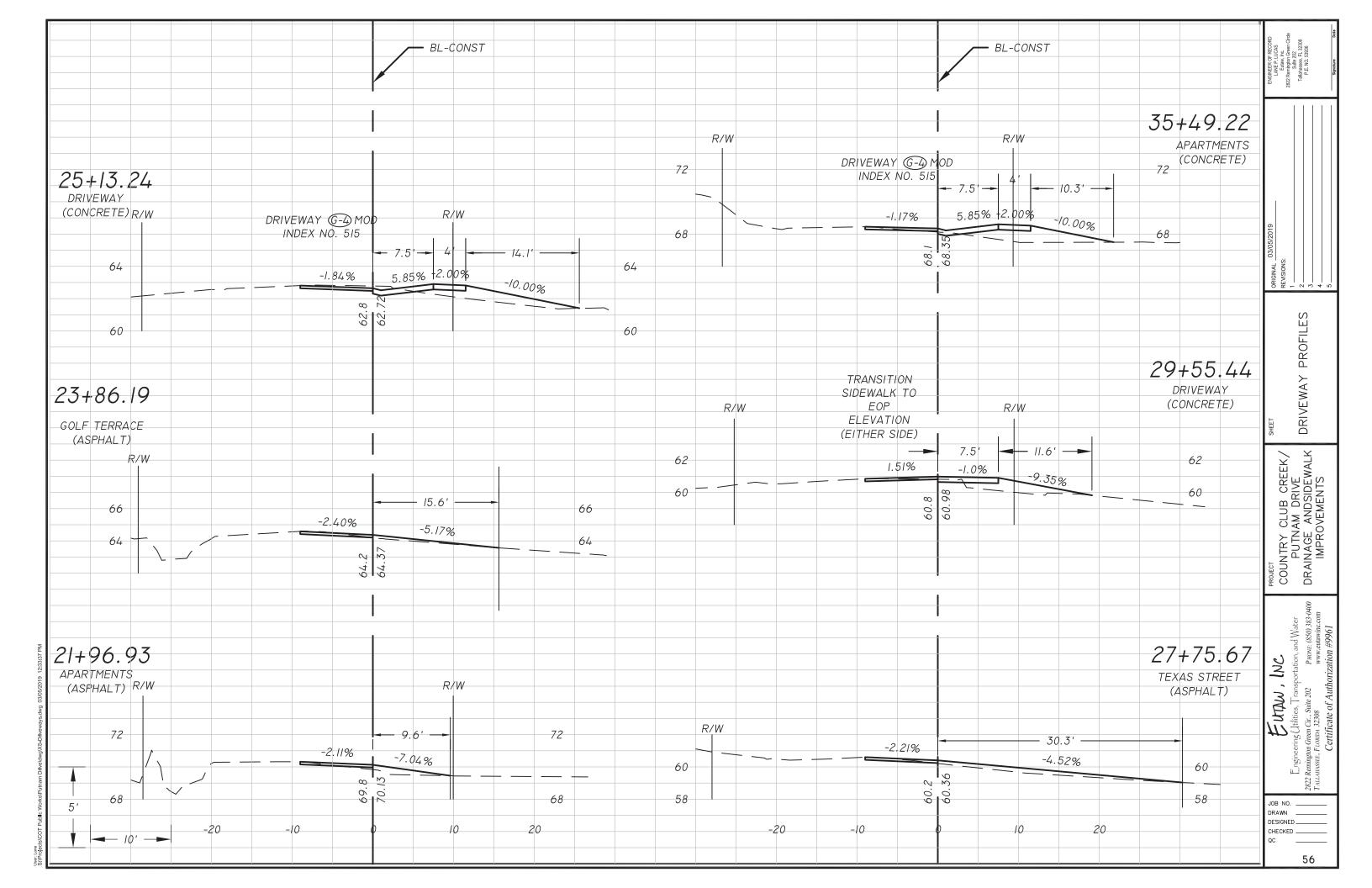


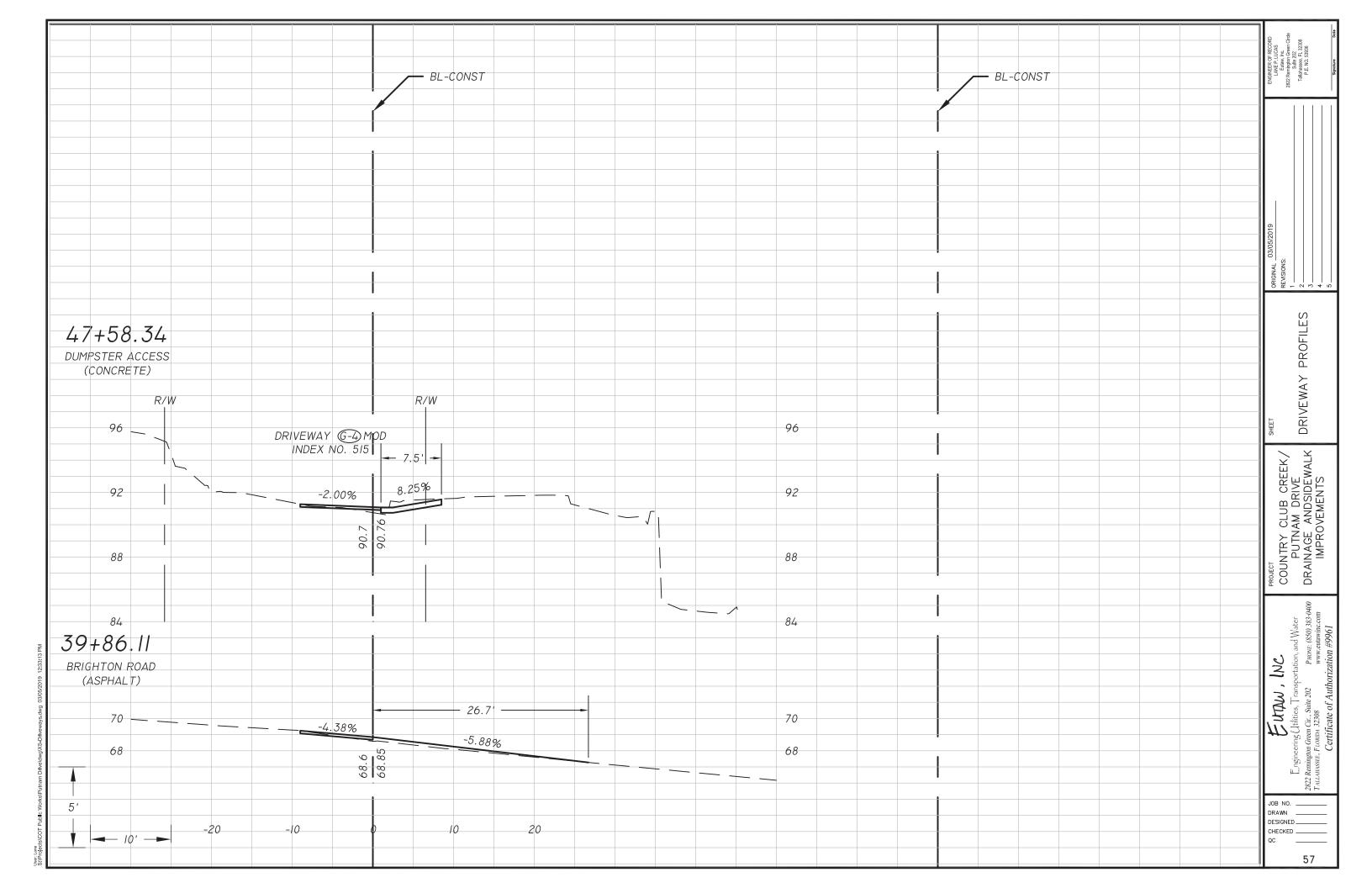
CROSS SECTIONS COUNTRY CLUB CREEK

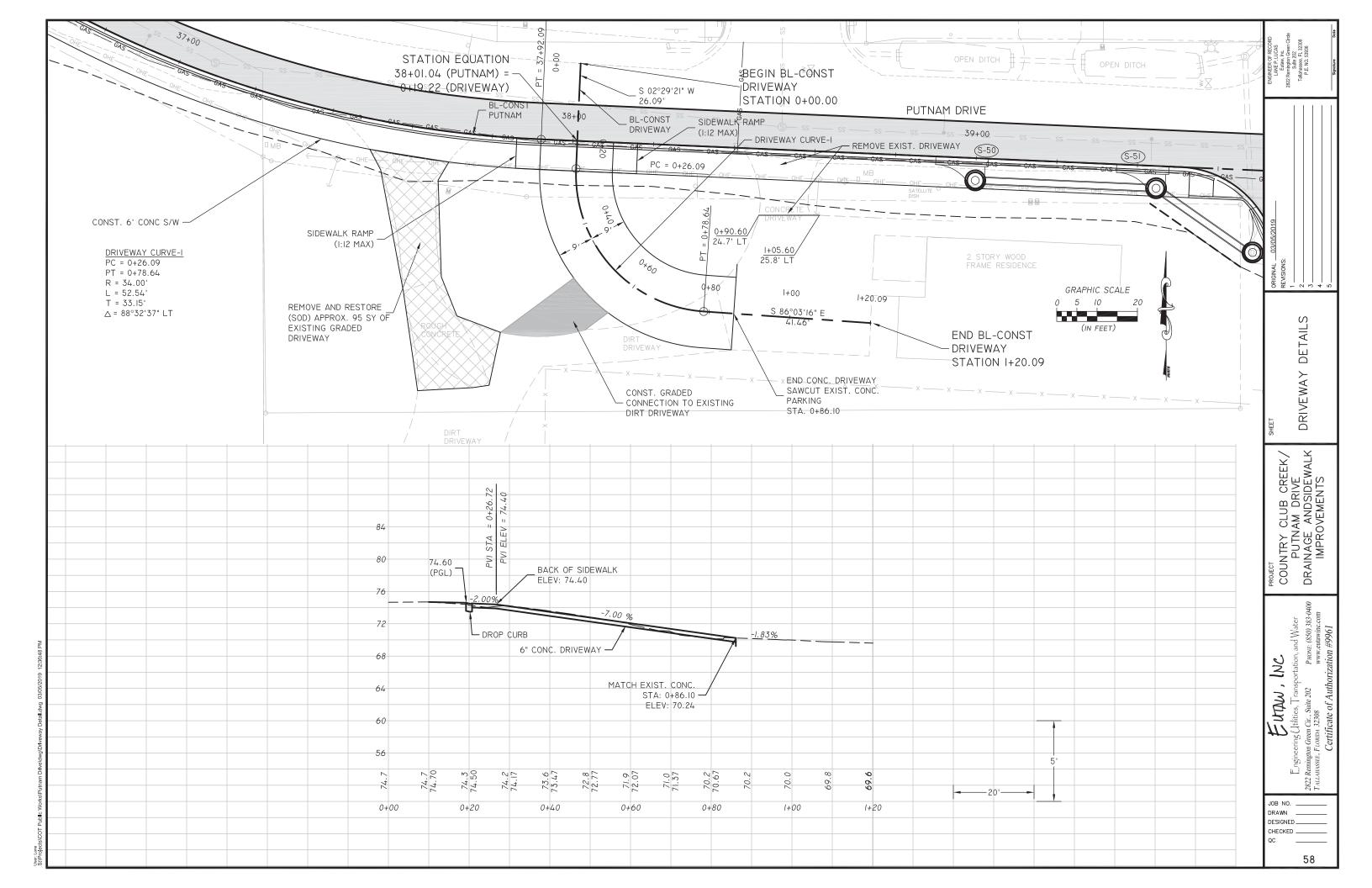
COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

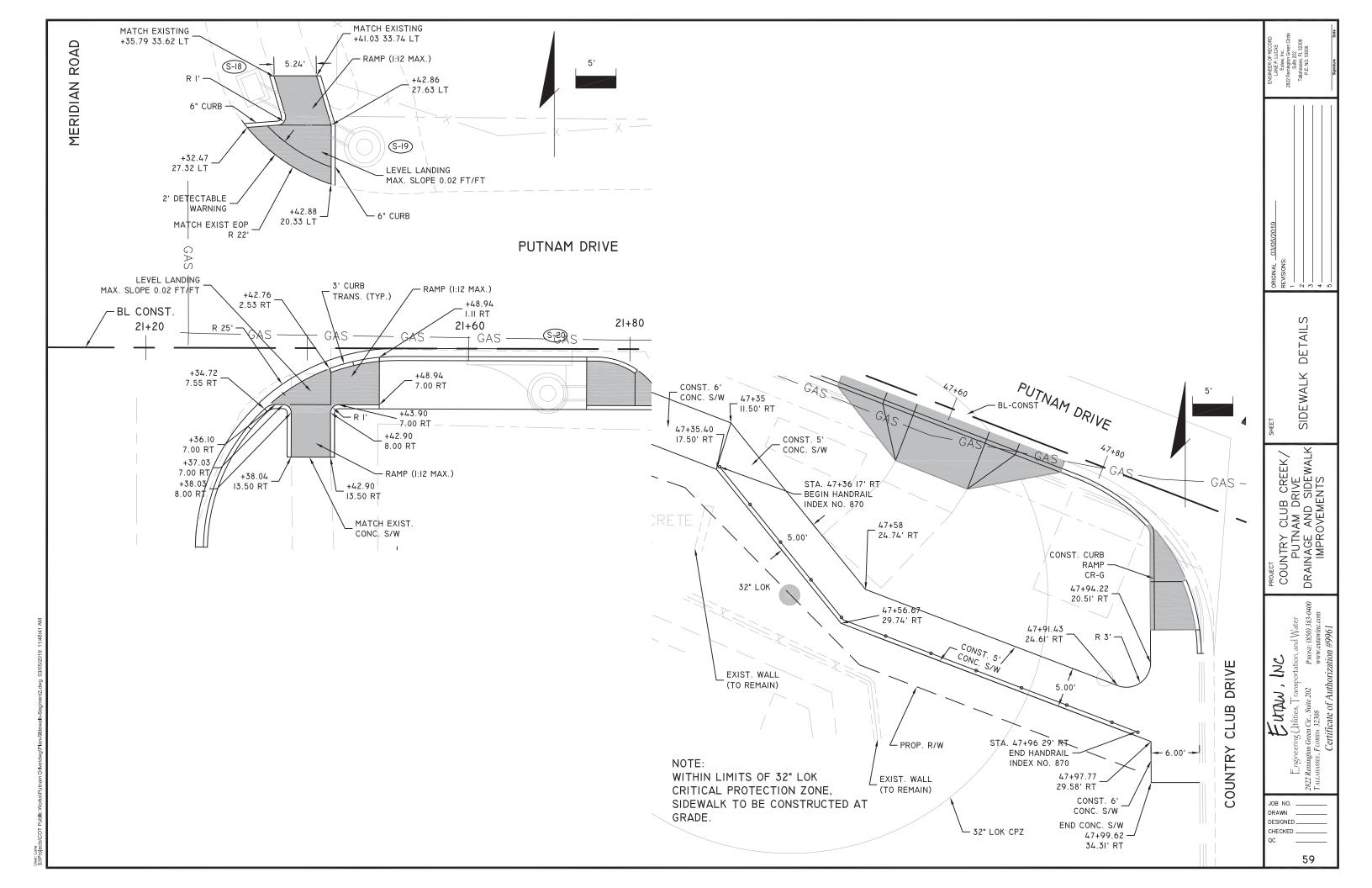
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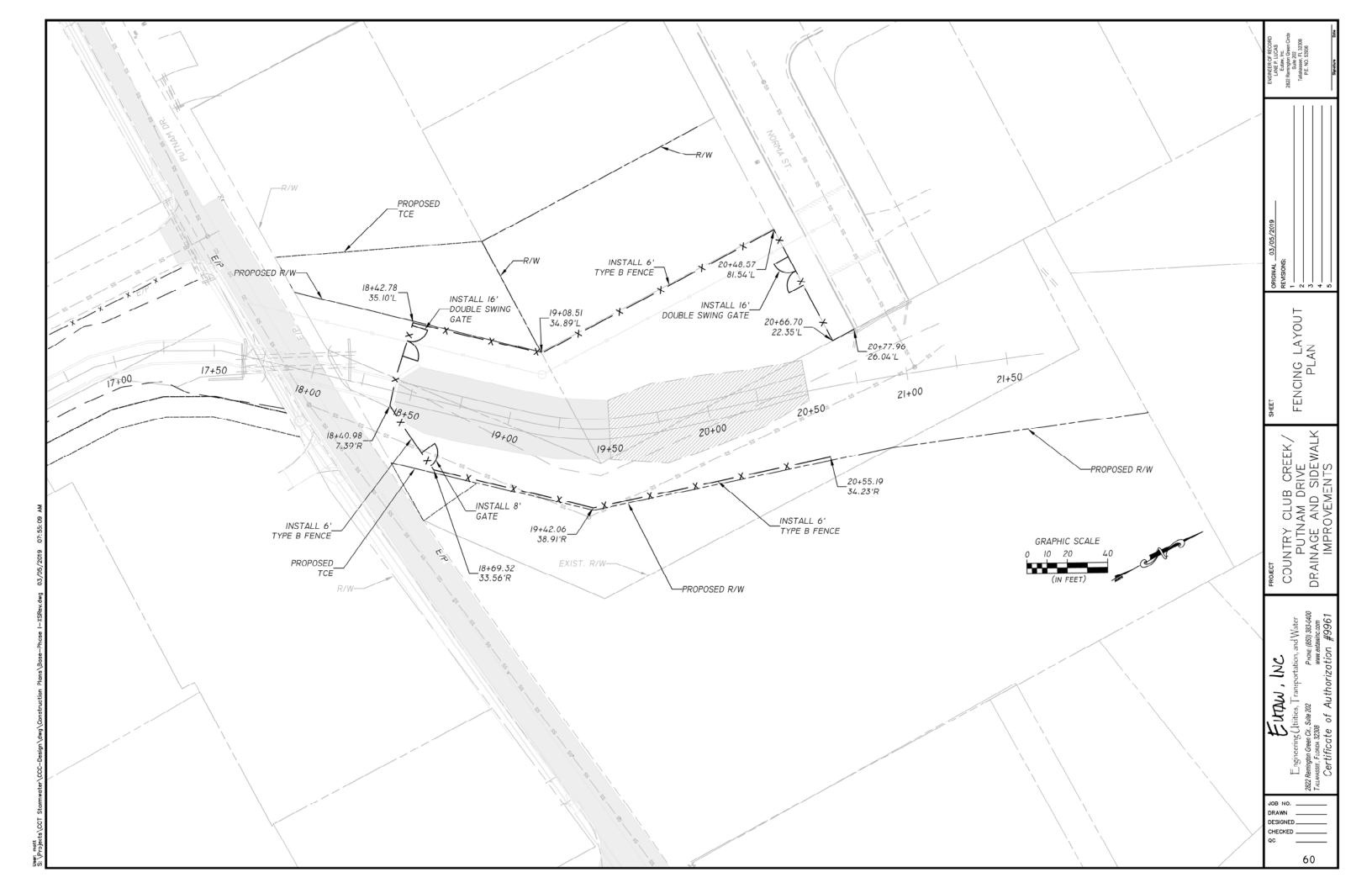


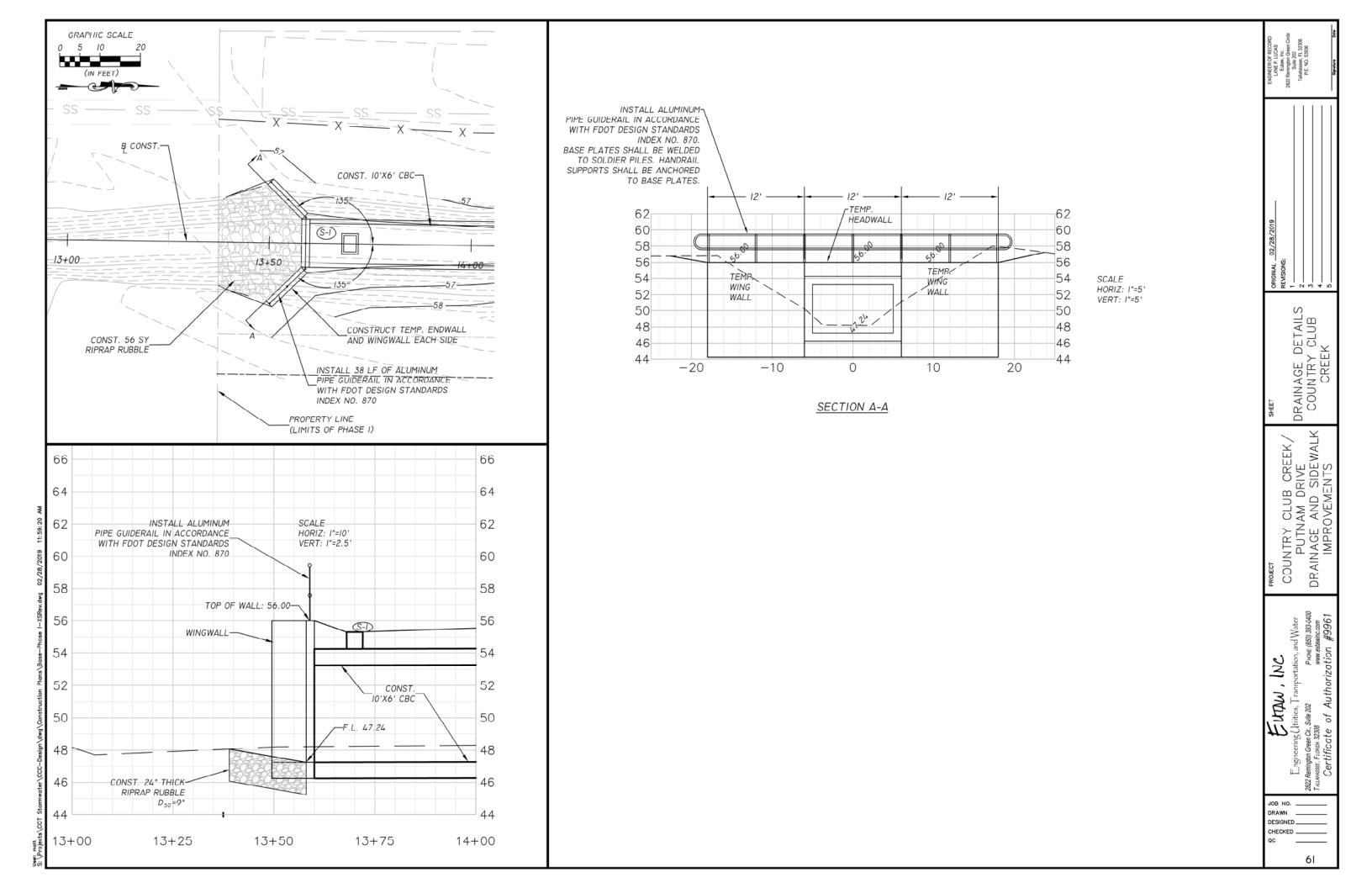


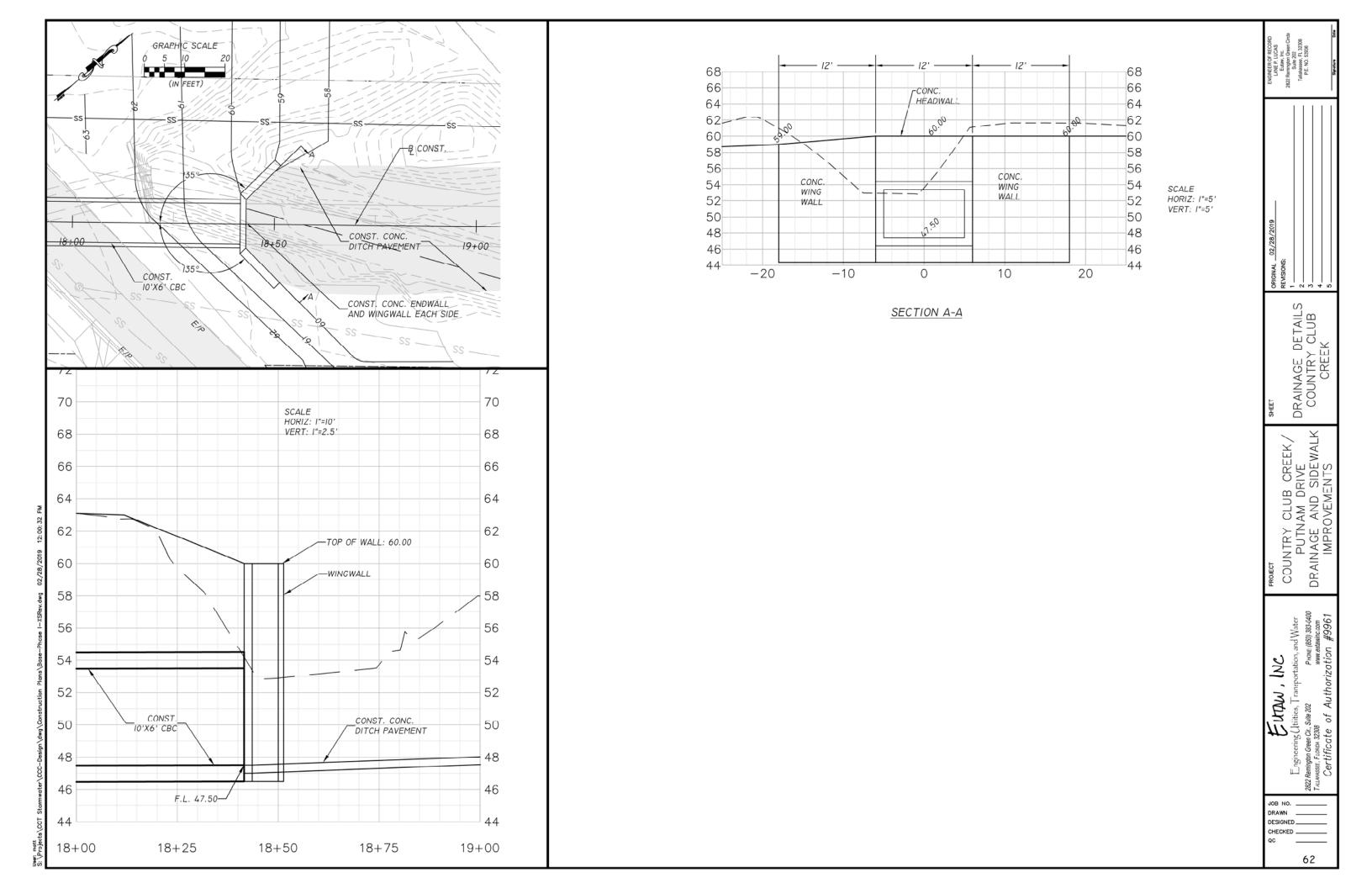












Soil Boring Locations DRAPHIC BCALE EXISTING SEWER (TO REMAIN) TEMPORARY END GOLF TERRACE DR. TRANSITION BACK TO_ EXIST. CHANNEL PROPERTY LINE MAINTENANCE EASEMENT REMOVE 95 LF S'KIO' CBC TEMPORARY EROSION CONTROL (RIP-RAP) PROPERTY LINE (LIMITS OF PHASE I) Drawing Source: Eutaw, Inc. Country Club Creek Drainage Improvements Phase I Plan & Profile (approximate) No. 40653 Alpha Geotechnical and Testing Services, Inc. Stephen P. Shanley, PE FL #40653 Subsurface Exploration and SIONAL ENGINE Certificate of Authorization 00007967 **Figure** Foundation Evaluation for 4778-B Woodlane Circle Allante Tallahassee, FL 32303 Country Club Creek Drainage Improvements (850) 514-4171 Fax: 514-4173 August 9, 2018 Box Culvert installation www.elpna-geotech.com

LANE P. LUCAS Eutaw, Inc. 2822 Remitgloon Green Circla Suite 202 Tallahassee, Ft. 32308 P.E. NO. 53936

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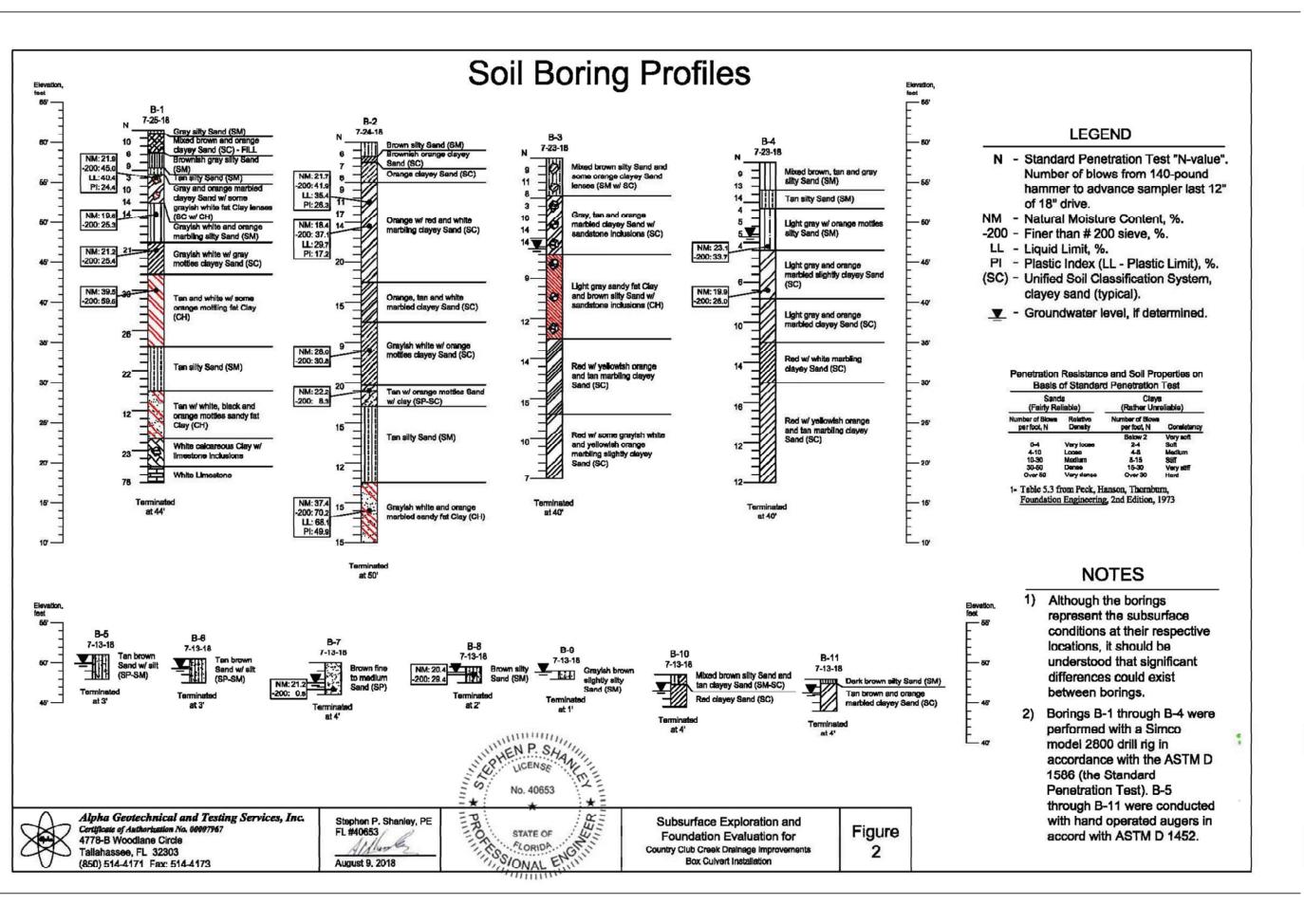
SOIL SURVEY

COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

EUTOW, INC (Utilities, Transportation, and Water Cir. Suite 202 PHONE (850) 333-0400 WWW.eutowinc.com

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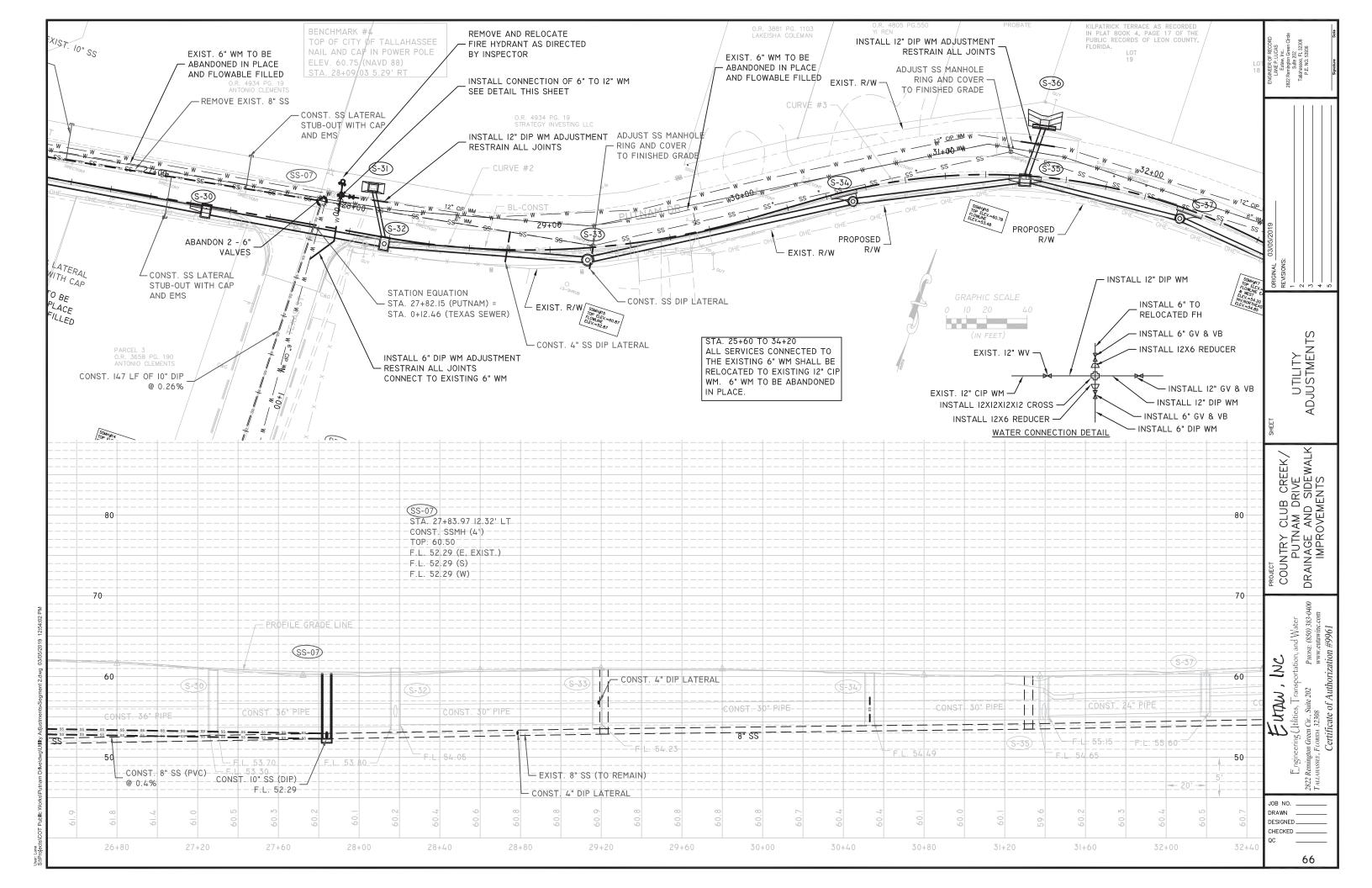
WALK COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

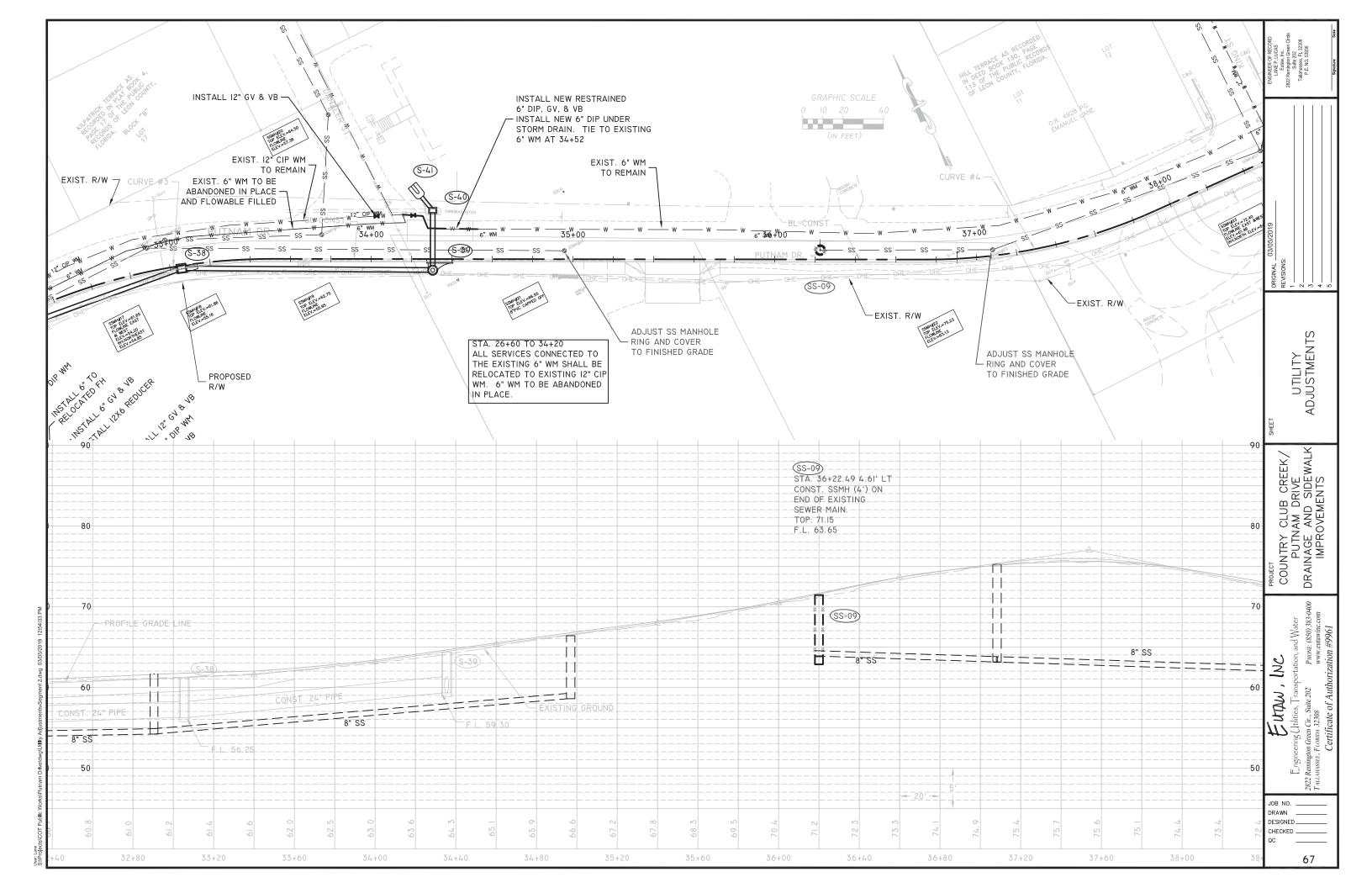
PHONE (85 www.eutan Authorization ; FUTAW, INC

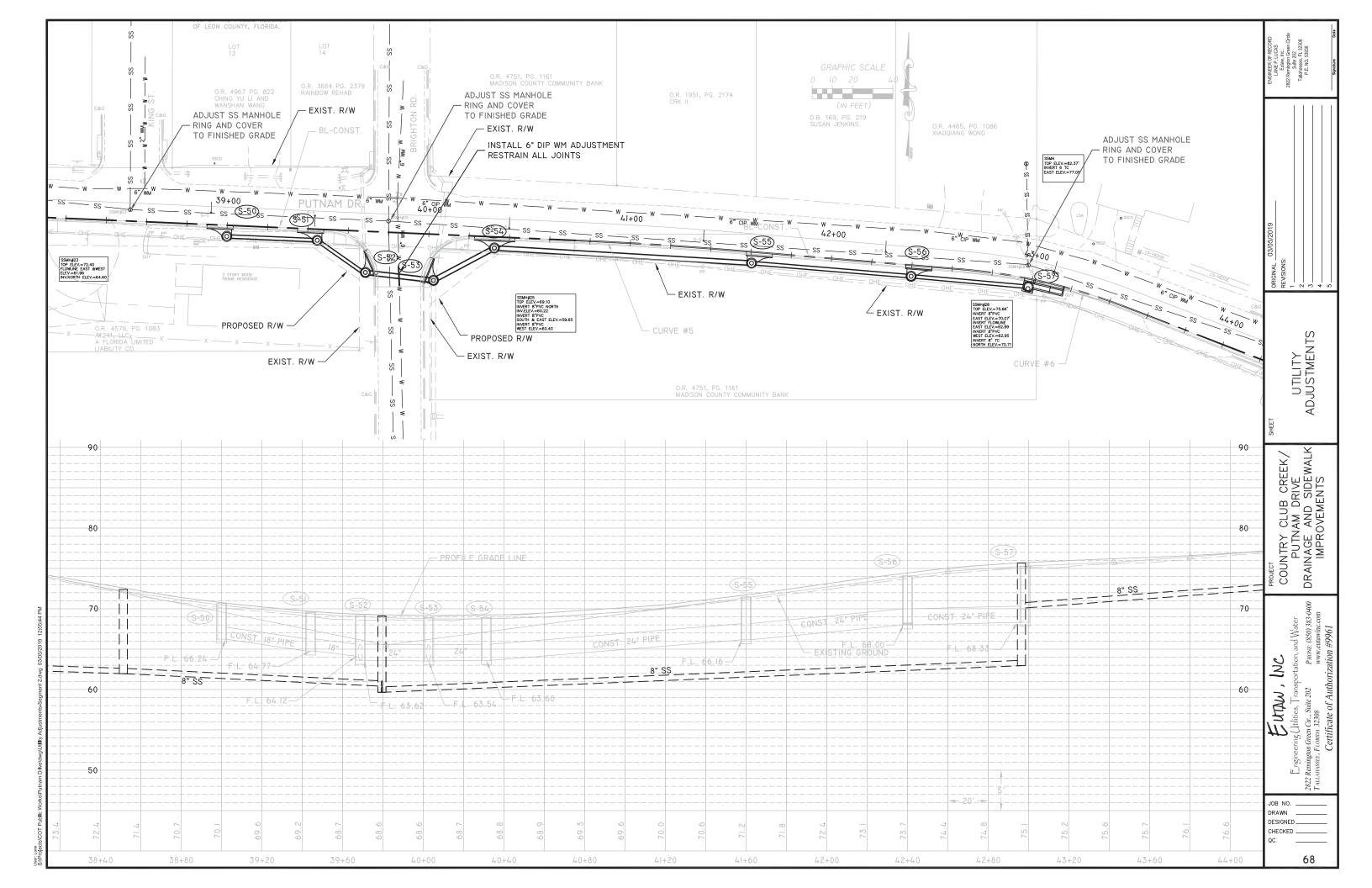
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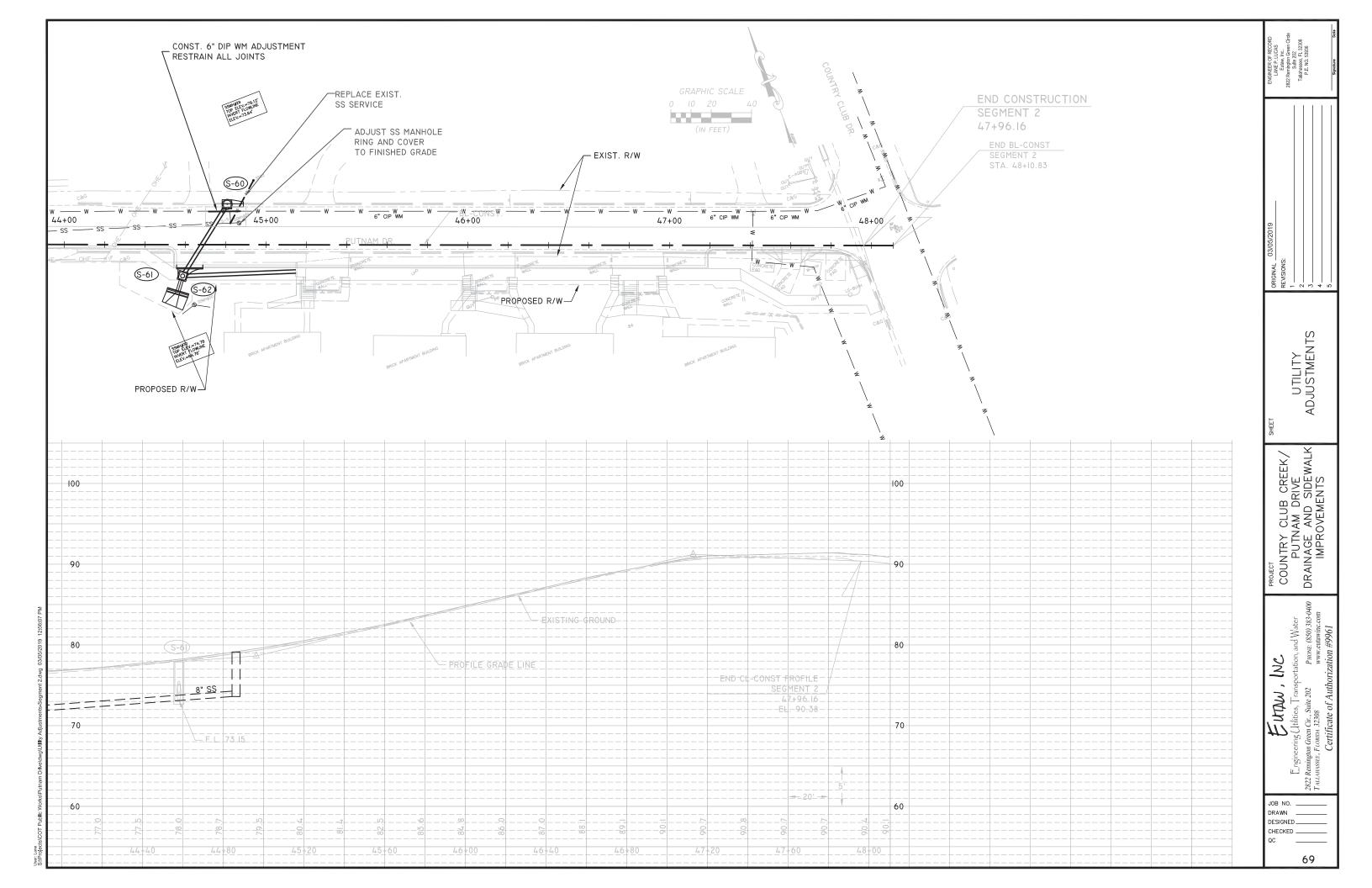
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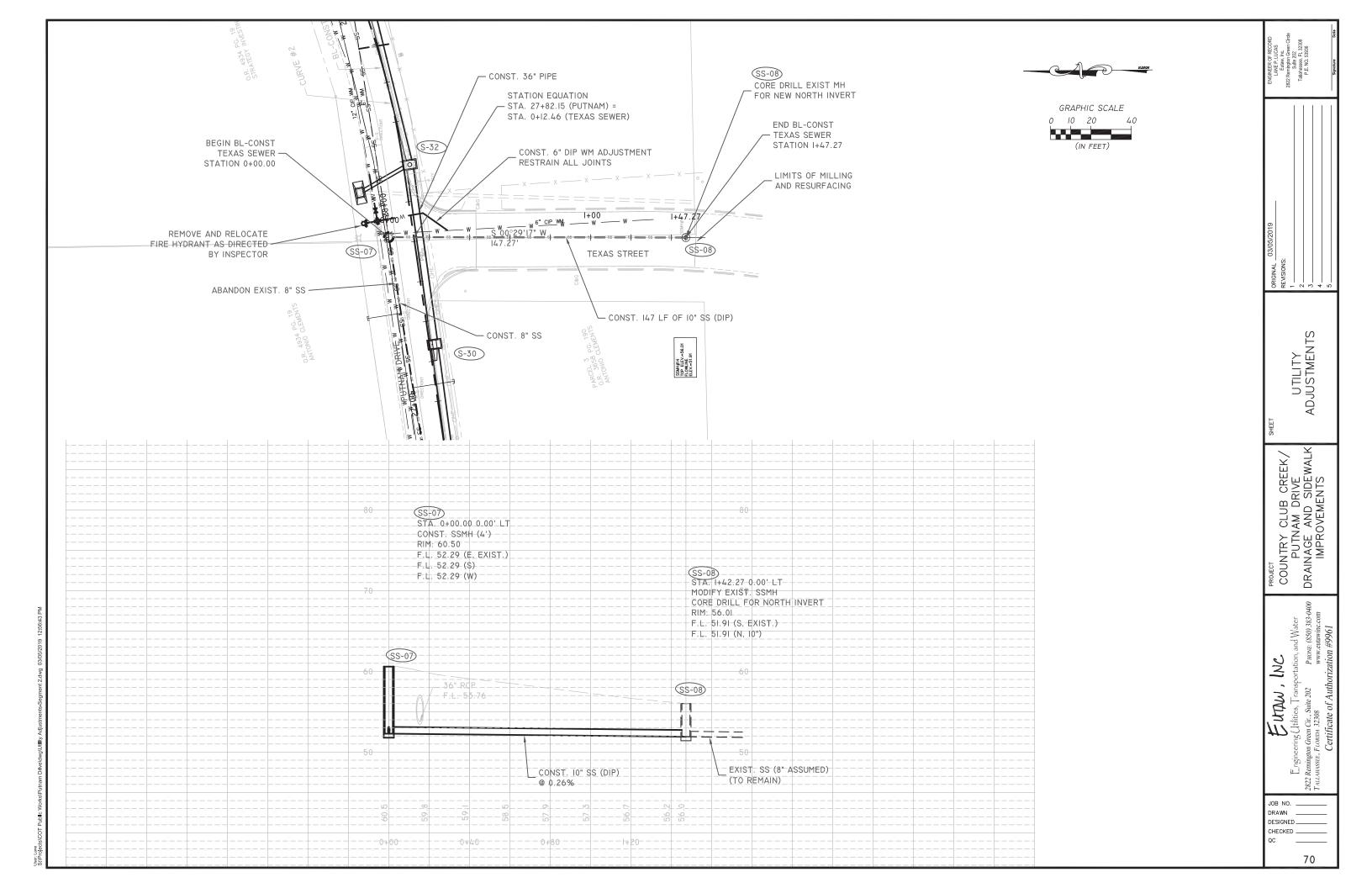
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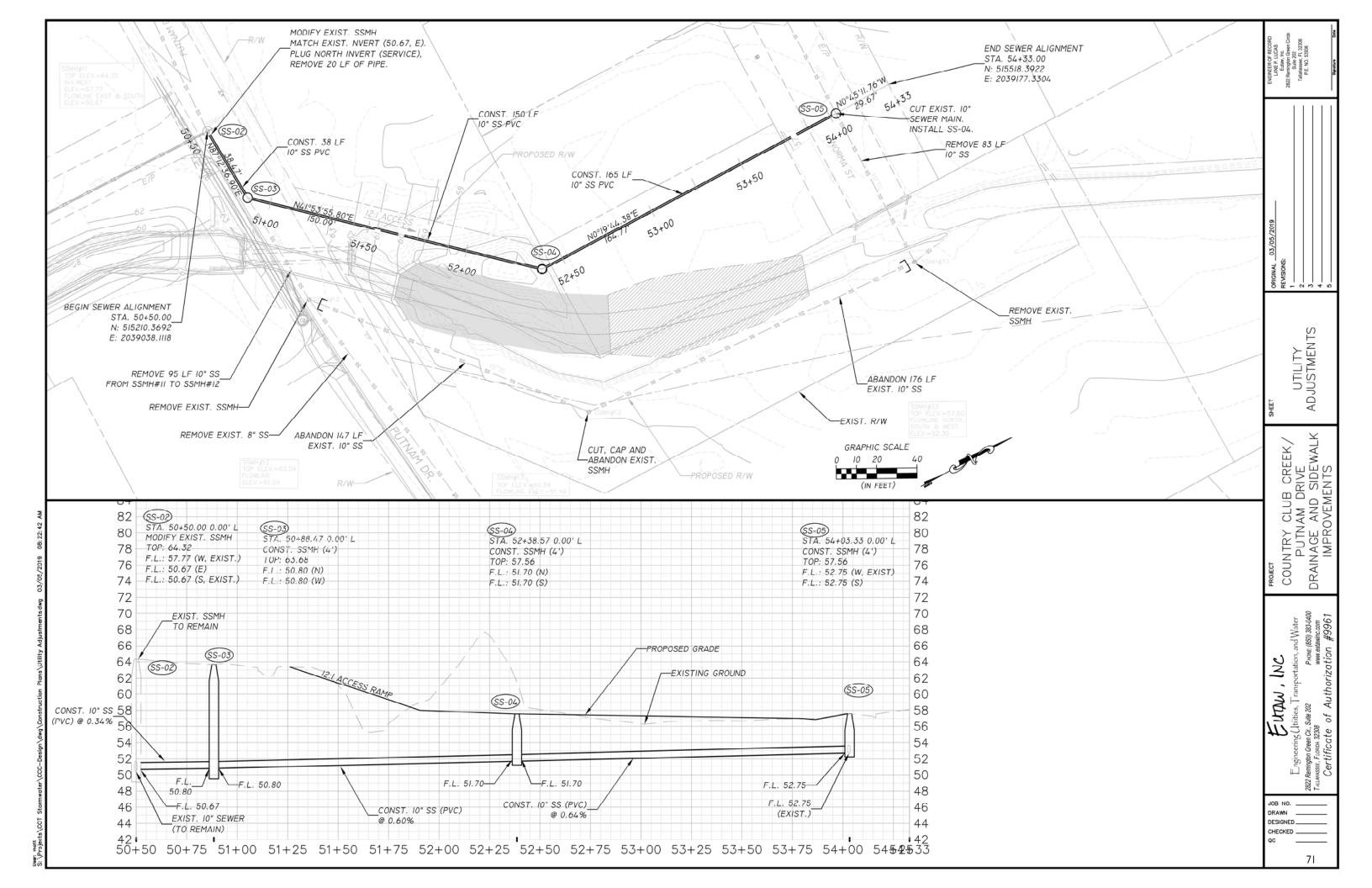












SITE DESCRIPTION THE PROJECT CONSISTS OF CONSTRUCTING CONCRETE SIDEWALKS AND CURB AND GUTTER ALONG AN EXISTING PUBLIC ROADWAY. THE PROJECT ALSO INCLUDES THE CONSTRUCTION OF CONCRETE BOX CULVERT AND CONCRETE DITCH PAVING ALONG COUNTRY CLUB CREEK. ADDITIONAL WORK INCLUDES CONSTRUCTION OF ENCLOSED DRAINAGE SYSTEMS (INLETS AND PIPING), MILLING AND RESURFACING, AND DITCH IMPROVEMENTS ALONG PUTNAM DRIVE. THE PROJECT INCLUDES TREE REMOVAL, CLEARING AND GRUBBING, EARTHWORK DRAINAGE STRUCTURE CONSTRUCTION, CONCRETE BOX CONSTRUCTION, ENDWALL CONSTRUCTION, ASPHALT PAVING, AND PERMANENT EROSION CONTROL FEATURES. B. MAJOR SOIL DISTURBING ACTIVITIES: CLEARING AND GRUBBING DRAINAGE STRUCTURES AND PIPING BOX CULVERT CONSTRUCTION DITCH CONSTRUCTION PARKING LANE CONSTRUCTION C. AREA ESTIMATES: TOTAL PROJECT AREA: 3.86 ACRES TOTAL AREA TO BE DISTURBED: 2.64 ACRES (EXCLUDING MILLING AND RESURFACING) D. RUNOFF DATA: RUNOFF COEFFICIENT (BEFORE CONSTRUCTION): 0.55 RUNOFF COEFFICIENT (DURING CONSTRUCTION): 0.55 RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.58 THE PROJECT IS LOCATED WITHIN THE INDIANHEAD WATERSHED IN THE LAKE MUNSON BASIN. THE PROJECT HAS TWO OUTFALLS. THE FIRST IS TO COUNTRY CLUB CREEK WHICH DISCHARGES TO THE EAST DRAINAGE DITCH. THE SECOND IS TO AN ENCLOSED DRAINAGE SYSTEM ON BRIGHTON STREET, WHICH DISCHARGES TO THE EAST DITCH. N 30°24'52.24" W 84°16'33.93" N 30°24'58.71" W 84°16'17.05" BRIGHTON OUTFALL

2. CONTROLS SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS: CONTROLS SHALL BE INSTALLED PRIOR TO ANY EARTH CLEARING ACTIVITIES AND MAINTAINED UNTIL PERMANENT EROSION CONTROL FEATURES HAVE BEEN ESTABLISHED. A. EROSION AND SEDIMENT CONTROLS (I) STABILIZATION PRACTICES: TEMPORARY SODDING TEMPORARY GRASSING PERMANENT SODDING OR SEEDING (2) STRUCTURAL PRACTICES: SEDIMENT BARRIER TURBIDITY BARRIER **BERMS** SEDIMENT TRAPS/BASINS NOTE: THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS. B. STORMWATER MANAGEMENT STORMWATER MANAGEMENT IS NOT PROVIDED WITHIN THE PROJECT LIMITS IN THE EXISTING CONDITION. THE ADDITION OF THE SIDEWALKS AND ASSOCIATED CURBING IS EXEMPT FROM ENVIRONMENTAL PERMITTING. AS SUCH, NO NEW STORMWATER MANAGEMENT CAPACITY IS INCLUDED IN THE PROJECT. C. OTHER CONTROLS (I) WASTE DISPOSAL: THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS. (2) OFFSITE VEHICLE TRACKING AND GENERATION OF DUST: HAUL ROADS DAMPENED FOR DUST CONTROL LOADED HAUL TRUCKS TO BE COVERED WITH TARP EXCESS DIRT ON ROADWAY REMOVED DAILY STABILIZED CONSTRUCTION ENTRANCE (3) SANITARY OR SEPTIC WASTE: ALL SANITARY WASTE WILL BE COLLECTED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS. (4) FERTILIZER: FERTILIZER SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS BY A LICENSED OR CERTIFIED APPLICATOR AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS. (6) NON-STORM WATER DISCHARGE INCLUDING SPILL REPORTING: NO NON-STORM WATER DISCHARGES ARE ANTICIPATED.

3. PERMITS PERMITS OBTAINED FOR THIS PROJECT INCLUDE: GEN-073-284009-I (NWFWMD)	ENGINEER OF RECORD LANE P. LUCAS Eulaw, Inc. 2822 Remitted Grean Grele Sulfa 202 Tallahrassen, F.I. 32308 P.E. NO. 53936
4. MAINTENANCE ALL EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED FOLLOWING EACH RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SEDIMENT DEPOSITS AT THE CONTROLS SHOULD BE REMOVED AFTER EACH STORM EVENT.	03/05/2019
THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS.	ORIGINAL REVISIONS:
5. INSPECTION ALL CONTROLS SHALL BE INSPECTED WEEKLY BY THE CONTRACTOR AS WELL AS AFTER A STORM EVENT WITH 0.50" OR MORE OF RAIN. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER EACH INSPECTION BASED UPON INSPECTION RESULTS. THE CONTROLS SHALL BE REVISED PER THE INSPECTION RESULTS.	SHEET STORMWATER POLLUTION PREVENTION PI AN
	PROJECT COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS
	nsportation, and Water PHONE: (850) 383-0400

OT Public Works\Putnam Drive\dwq\SWPPP.dwq 03/05/2019 12:59:57 PM

JOB NO. ______
DRAWN ____
DESIGNED _____
CHECKED _____
QC ____

72

GENERAL NOTES - SEDIMENT AND EROSION CONTROL

- I. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PREVENTION, CONTROL, AND ABATEMENT OF EROSION, WATER POLLUTION, AND THE TRANSPORTATION OF ERODED MATERIALS OFF SITE.
- 2. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A SEDIMENT AND EROSION CONTROL PLAN TO ACCOMPANY THE STORMWATER POLLUTION PREVENTION PLAN AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE "FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" AND SHALL BE SPECIFIC TO THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION TO BE EMPLOYED BY THE CONTRACTOR AND SHALL IDENTIFY THE TYPES AND LOCATIONS OF CONTROLS THAT ARE TO BE IMPLEMENTED DURING EACH PHASE OF CONSTRUCTION AS SHOWN ON THE APPROVED CONSTRUCTION SCHEDULE TO MINIMIZE EROSION, PREVENT THE TRANSFER OF ERODED MATERIALS ONTO ANY OFF SITE PARCEL OR INTO ANY RECEIVING WATER, AND PREVENT VIOLATING STATE AND/OR FEDERAL PERMIT REQUIREMENTS. PAYMENT FOR PREPARING AND SUBMITTING THE SEDIMENT AND EROSION CONTROL PLAN AND FOR ANY MODIFICATIONS TO THE SEDIMENT AND EROSION CONTROL PLAN DURING CONSTRUCTION WILL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION. THE SEDIMENT AND EROSION CONTROL PLAN SHALL DESCRIBE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS FOR EACH PHASE OF CONSTRUCTION OPERATIONS OR ACTIVITIES:
- TYPES AND LOCATIONS OF ALL EROSION CONTROL DEVICES
- ESTIMATED TIME EROSION CONTROL DEVICES WILL BE IN OPERATION
- METHODS FOR CONTAINMENT OR REMOVAL OF ERODED MATERIALS FROM DISCHARGES RELATED TO DEWATERING OPERATIONS
- METHODS FOR CONTAINMENT OR REMOVAL OF POLLUTANTS OR HAZARDOUS WASTES METHODS FOR MAINTENANCE OF EROSION CONTROL DEVICES
- SCHEDULES FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
- NAME AND PHONE NUMBERS OF PERSON RESPONSIBLE FOR MONITORING AND MAINTAINING EROSION CONTROL DEVICES
- 3. NO CONSTRUCTION ACTIVITIES SHALL BEGIN UNTIL THE SEDIMENT AND EROSION CONTROL PLAN HAS RECEIVED WRITTEN APPROVAL FROM THE ENGINEER
- 4. THE CONTRACTOR SHALL UPDATE THE SEDIMENT AND EROSION CONTROL PLAN WHENEVER THERE IS A CHANGE IN CONSTRUCTION SEQUENCE OR ACTIVITIES THAT HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS OFF SITE OR INTO ANY RECEIVING WATER AND SHALL SUBMIT THE UPDATED PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER
- 5. EROSION AND SEDIMENT CONTROLS SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION AND SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL
- 6. FIELD CONDITIONS MAY REQUIRE THE USE OF ADDITIONAL TYPES AND QUANTITIES OF SEDIMENT AND EROSION CONTROL DEVICES DURING CONSTRUCTION AS DETERMINED BY THE CONTRACTOR, THE ENVIRONMENTAL INSPECTOR. OR THE ENGINEER.
- 7. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROL DEVICES PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY, IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL TO ENSURE THAT THE DEVICES ARE PROPERLY LOCATED AND MAINTAINED FOR EFFECTIVENESS. ANY REQUIRED REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY.
- 8. SEDIMENT TRAPPED BY THE EROSION CONTROL DEVICES IS TO BE REMOVED BY THE CONTRACTOR AFTER EACH RAIN STORM
- 9. THE AMOUNT OF AREA DISTURBED AT ONE TIME SHALL BE LIMITED TO THE MINIMUM NECESSARY TO ADEQUATELY IMPLEMENT THE WORK. CONSTRUCTION OPERATIONS SHALL BE CONTROLLED TO MINIMIZE UNPROTECTED AREAS EXPOSED TO WEATHER, AND AREAS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL NOT BE DISTURBED.
- 10. EXCAVATED MATERIAL SHALL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR BY STORMWATER RUNOFF, AND STOCKPILES SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES
- II. DURING THE INSTALLATION OF STORM DRAIN OR UTILITY PIPING, SYNTHETIC BALE BARRIERS SHALL BE PLACED BELOW THE WORK ZONES TO AID IN CONTROLLING THE TRANSFER OF ERODED MATERIAL OFF SITE.
- 12. NEW AND EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SILTATION DURING CONSTRUCTION. BARRIERS SHALL BE PLACED AROUND ALL INCOMPLETE STORMWATER INLETS AND MANHOLES DURING CONSTRUCTION.
- 13 EXISTING FLOW CAPACITY SHALL BE MAINTAINED IN THE DRAINAGE SYSTEMS TO CONVEY RUNOFF FROM RAIN STORMS THAT OCCUR DURING CONSTRUCTION EXISTING DRAINAGE PIPES THAT ARE NOTED TO BE PLUGGED OR SHALL BE MADE TO DIVERT FLOWS CAN BE DIVERTED TO THE NEW PRINGS SYSTEM, WHERE NEW PIPES ARE TO BE INSTALLED IN CLOSE PROXIMITY TO EXISTING PIPES THAT ARE TO BE REMOVED, PROVISIONS SHALL BE MADE TO DIVERT FLOWS FROM THE EXISTING PIPES TO THE NEW PIPES PRIOR TO RAIN STORMS. TEMPORARY PIPES SHALL BE PLACED FOR THIS PURPOSE PRIOR TO SUSPENSION OF WORK ACTIVITIES EACH DAY.
- 14. NO MORE THAN 500 FEET OF STORM DRAIN OR UTILITY PIPING SHALL BE INSTALLED WITHOUT BACKFILLING AND COMPACTING THE PIPE TRENCH
- 15. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY IN THOSE PORTIONS OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- 16. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND
- 17. THE CONTRACTOR SHALL OBTAIN AN ENVIRONMENTAL MANAGEMENT PERMIT FROM THE CITY OF TALLAHASSEE GROWTH MANAGEMENT DEPARTMENT FOR ALL STOCKPILE AND CONSTRUCTION STAGING AREAS LOCATED OUTSIDE THE LIMITS OF CONSTRUCTION

GENERAL NOTES - TREE PROTECTION:

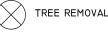
- 1. BARRICADE FENCING SHALL BE INSTALLED AT OR NEAR THE CRITICAL PROTECTION ZONE OF EACH TREE TO BE PROTECTED PRIOR TO INITIATION OF ANY CONSTRUCTION ACTIVITY, AND THE FENCING SHALL REMAIN IN PLACE LINTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED
- 2. ALL ROOTS 3/4* IN DIAMETER AND LARGER OF TREES TO BE PROTECTED OR PRESERVED THAT ARE EXPOSED DURING TRENCHING AND EXCAVATION SHALL BE CLEANLY CUT WITH A HANDSAW AND COVERED IMMEDIATELY WITH SOIL OR KEPT MOISTENED WITH WET BURLAP OR PEAT MOSS UNTIL THE TRENCH CAN BE FILLED. WHEN IT IS NOT POSSIBLE TO BACKFILL IN THE SAME DAY, THE ROOTS SHALL BE FRESHLY CUT WITH A HANDSAW A REASONABLE DISTANCE FROM THE ORIGINAL CUT AND BACKFILLED IMMEDIATELY TO AVOID SOIL OR ROOT DEHYDRATION.
- 3. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING THE SERVICES OF A CERTIFIED ARBORIST TO RECOMMEND AND OVERSEE ANY TREE MITIGATION NEEDED AS A RESULT OF CONSTRUCTION OR BASED ON ANY PERMIT SPECIAL CONDITIONS. THE COST FOR PROVIDING AN ARBORIST AND ANY MITIGATION SHOULD BE INCLUDED IN THE COST OF MOBILIZATION.

TREE REMOVALS - PUTNAM SIDEWALK LEGEND SIDE DESCRIPTION TREES FOR ELECTRIC RELOCATION

39+58

RT

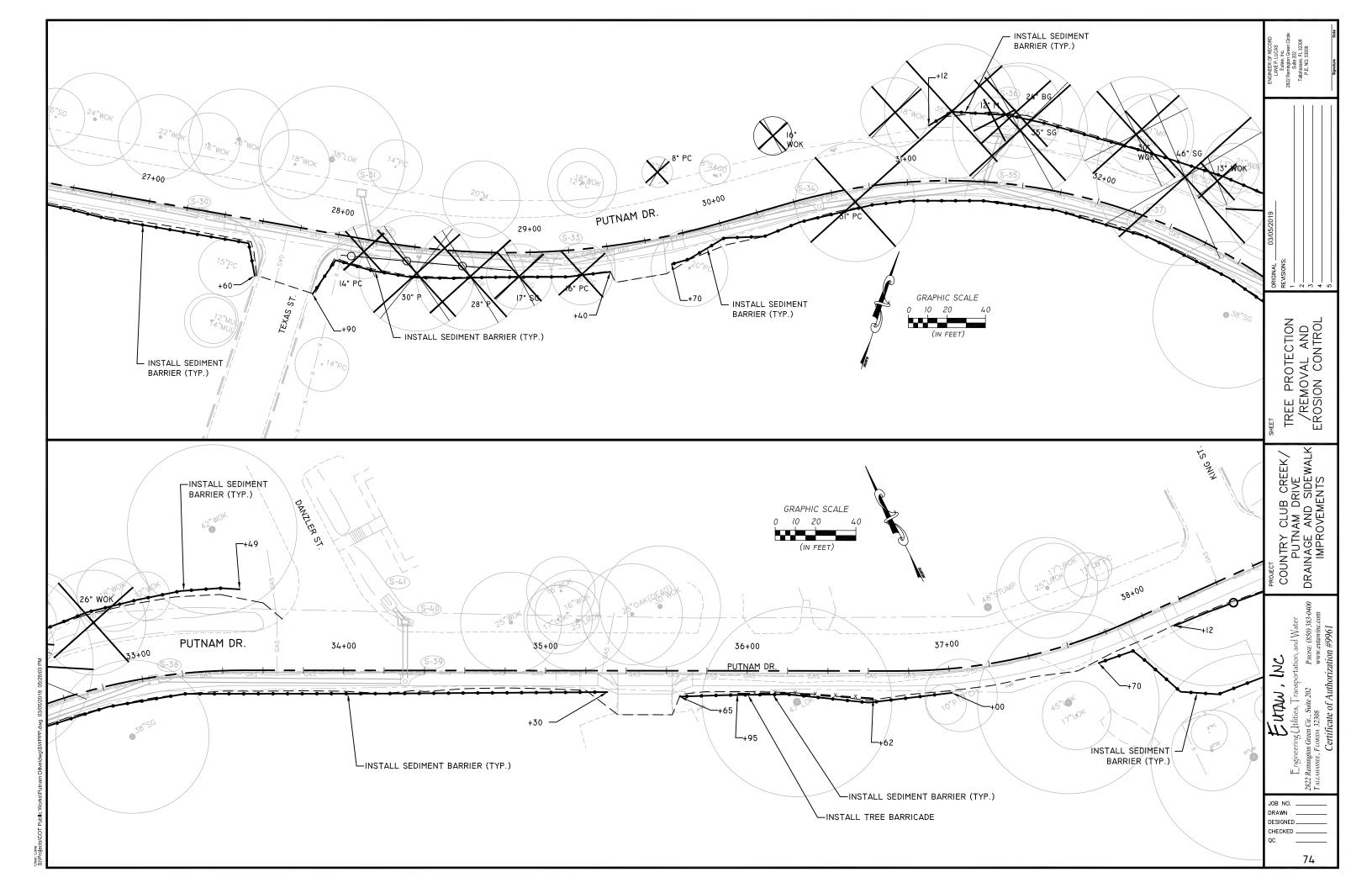
28" WOK

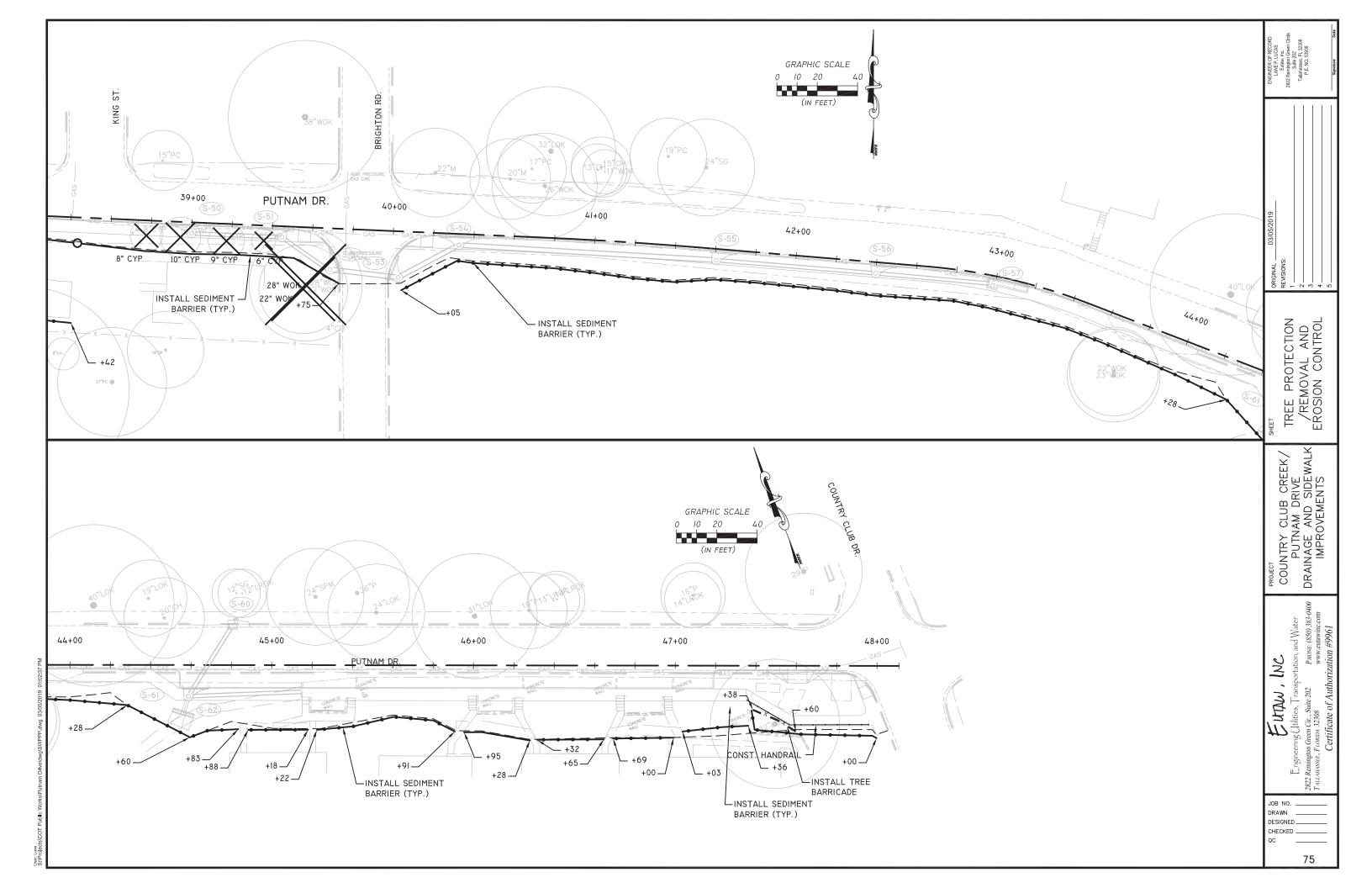


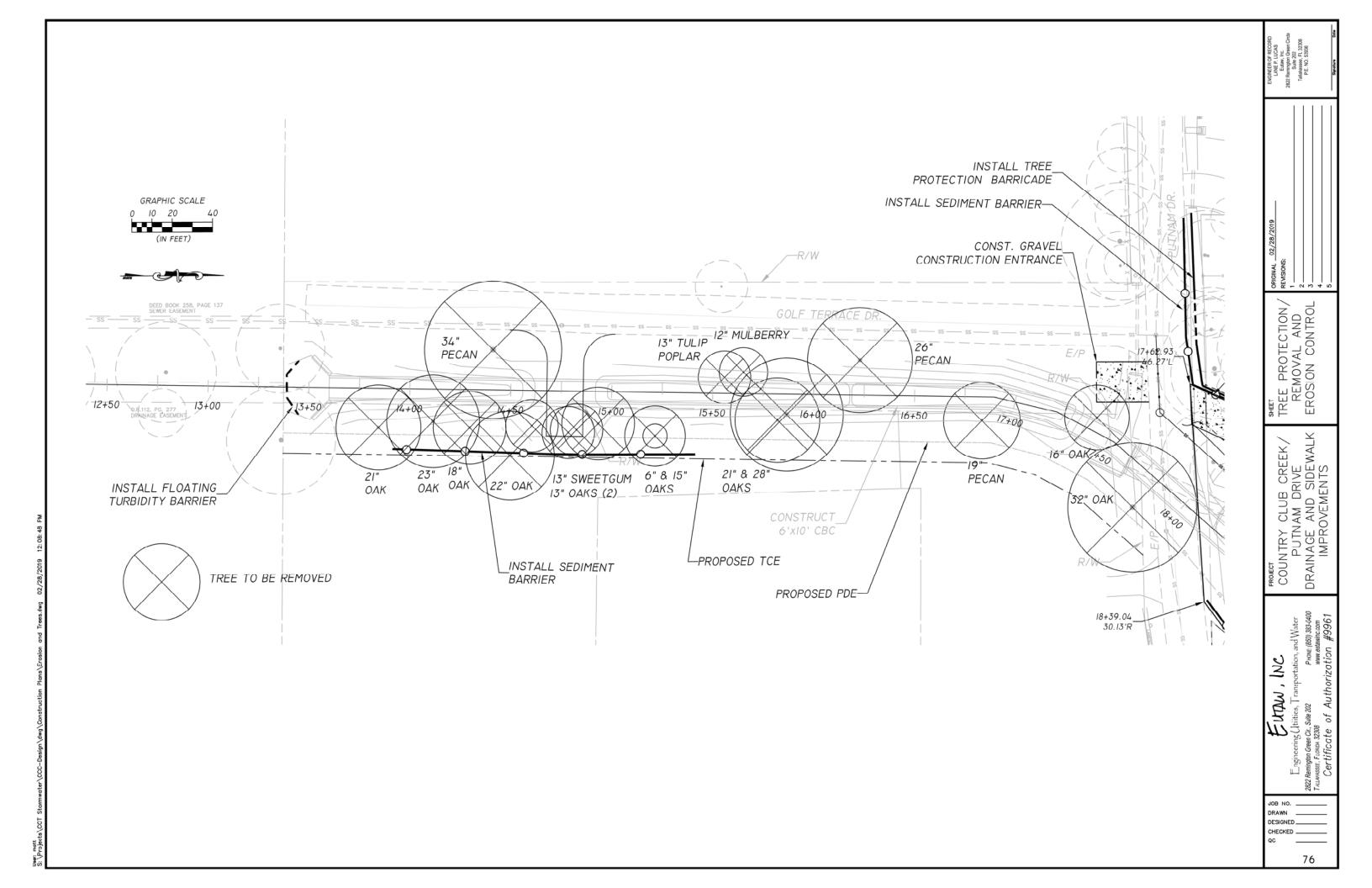
			STATION	SIDE	DESCRIPTION
22+98	RT	12" SG			
23+15	RT	17" CA	29+74	LT	8" PC
23+32	RT	13" CD	30+39	LT	10" WOK
23+44	RT	29" CH	31+22	LT	35" WOK
23+55	RT	10" CA	32+09	LT	30" WOK
23+56	RT	17" CA			
28+14	RT	14" PC			
28+42	RT	30" P			
28+70	RT	28" P			
28+94	RT	17" SG			
29+26	RT	16"PC			
30+71	RT	31"PC			
31+43	LT	12"M			
31+52	LT	24" BG			
31+55	LT	35" SG			
32+37	LT	46" SG			
32+52	LT	13" WOK			
32+83	LT	26" WOK			
38+78	RT	8" CYP			
38+95	RT	IO" CYP			
39+17	RT	9" CYP			
39+36	RT	6" CYP			
39+56	RT	22"WOK			

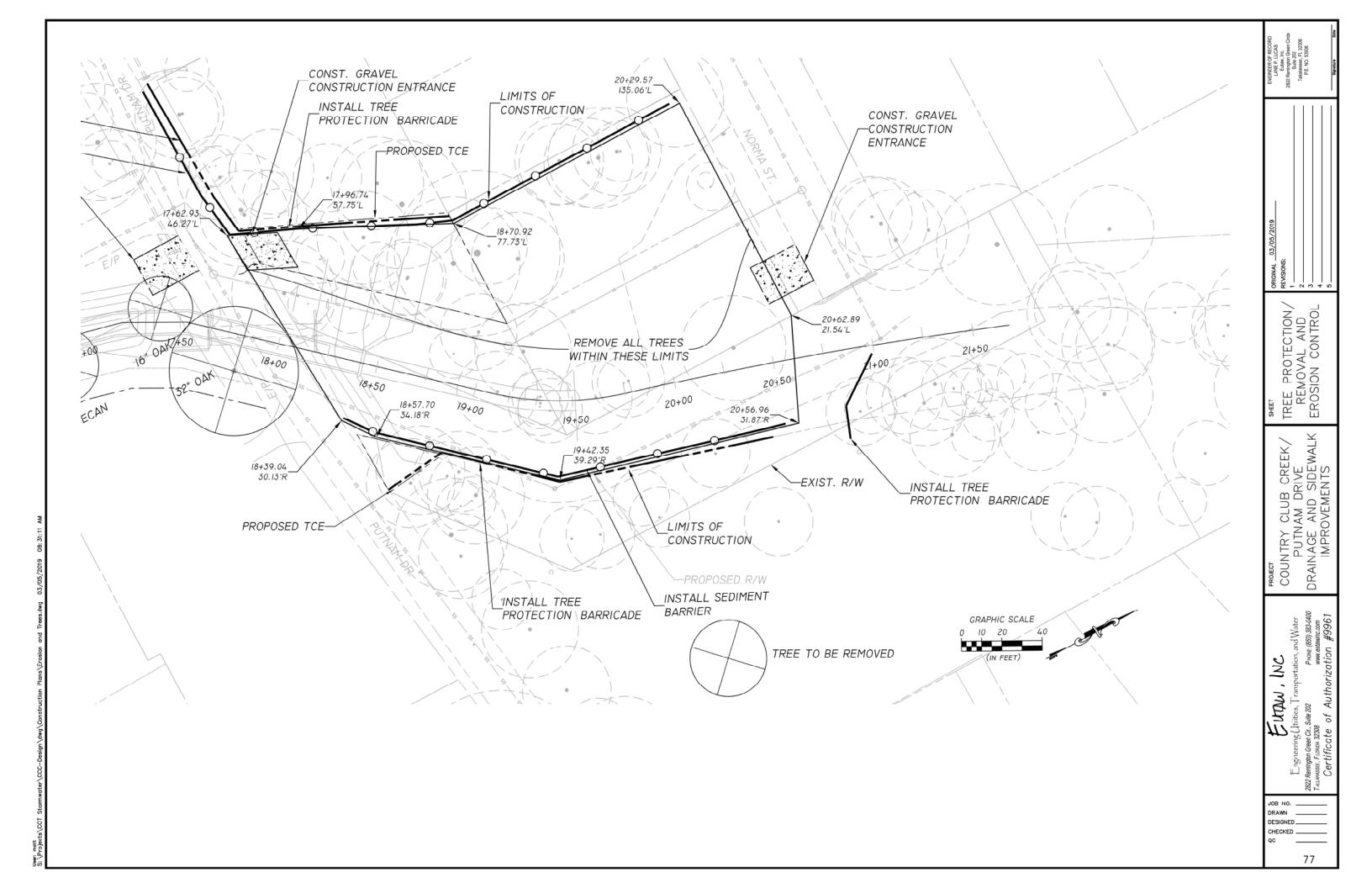
EMOVAL AND SION CONTROL PROTECTION TREE /REN EROSIG ER-

COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS INSTALL SEDIMENT INSTALL SEDIMENT BARRIER (TYP.) BARRIER (TYP.) - INSTALL SEDIMENT BARRIER (TYP.) ■|24"WOK 28"W0K21"SG ınd Water 26+00 PUTNAM DR. 24+00 21+00 22+00 23+00 SET 32" WOK 17" EAT +05-**NSTALL SEDIMENT** 13"/CD 10" CA BARRIER (TYP.) 17" CA 29" CH 16" OAK GRAPHIC SCALE INSTALL SEDIMENT 10 20 40 INSTALL SEDIMENT BARRIER (TYP.) BARRIER (TYP.) JOB NO. - INSTALL SEDIMENT BARRIER (TYP.) (IN FEET) DRAWN DESIGNED CHECKED 19" PEC 73









MAINTENANCE OF TRAFFIC NOTES

- THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN THAT DESCRIBES THE MEASURES TO BE EMPLOYED DURING CONSTRUCTION TO WARN MOTORISTS AND PEDESTRIANS OF HAZARDS, TO ADVISE MOTORISTS OF THE PROPER TRAVEL PATH THROUGH OR AROUND THE WORK AREA, TO DELINEATE AREAS WHERE TRAFFIC SHOULD NOT OPERATE, AND TO SEPARATE AND PROTECT MOTORISTS, PEDESTRIANS, AND THE WORK FORCE DURING ALL PHASES OF THE WORK. THE PLAN SHALL ALSO CONSIDER ACCESS TO BUSINESSES WITHIN THE CONSTRUCTION AREA AND PROVIDE BUSINESS ENTRANCE SIGNS TO ROUTE MOTORISTS TO DESIGNATED PARKING AREAS. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE TRAFFIC CONTROL PLAN FROM THE CITY OF TALLAHASSEE TRAFFIC MOBILITY MANAGEMENT SECTION PRIOR TO BEGINNING CONSTRUCTION. PAYMENT FOR PREPARING AND SUBMITTING THE TRAFFIC CONTROL PLAN SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.
- 2. ACCESS TO BUSINESS AND RESIDENTIAL DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- NO ROADWAYS (INCLUDING COUNTY ROADS) SHALL BE CLOSED WITHOUT PRIOR APPROVAL OF THE CITY OF TALLAHASSEE TRAFFIC MOBILITY MANAGEMENT SECTION.
- 4. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND/OR THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, 600 SERIES.
- 5. ALL TRAFFIC CONTROL DEVICES SHALL BE IN PLACE BEFORE THE START OF CONSTRUCTION ON AFFECTED ROADWAYS.
- 6. WARNING LIGHTS SHALL BE USED ON BARRICADES DURING HOURS OF DARKNESS IN ACCORDANCE WITH INDEX NO. 600.

SUGGESTED CONSTRUCTION SEQUENCE

THE FOLLOWING SEQUENCE IS RECOMMENDED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS:

- INSTALL EROSION CONTROL FEATURES
- 2. CLEARING AND GRUBBING
- 3. UTILITY ADJUSTMENTS
- 4. STORM SEWER AND BOX CULVERT CONSTRUCTION
- ROADWAY STABILIZATION
- 6. OPTIONAL BASE CONSTRUCTION
- CURB CONSTRUCTION
- SIDEWALK CONSTRUCTION
- DRIVEWAY CONSTRUCTION
- 10. PERMANENT EROSION CONTROL
- MILLING AND RESURFACING
- 12. SIGNING AND PAVEMENT MARKINGS

ROADWAY SEGMENTS UNDER CONSTRUCTION MAY BE CLOSED TO THROUGH TRAFFIC. SEGMENTS SHALL BE LIMITED TO LENGTHS THAT CAN BE DETOURED THROUGH EXISTING PUBLIC STREETS. ALL DETOUR ROUTES AND ADVANCED SIGNING SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS (600 SERIES) AND THE MUTCD. THE SUGGESTED PHASING OF WORK IS:

PHASE I - MERIDIAN ROAD TO TEXAS STREET - STORM, UTILITIES, BOX CULVERT, ROADWAY RECONSTRUCTION, CURBING, SIDEWALK AND DRIVEWAYS.

PHASE 2 - TEXAS STREET TO BRIGHTON ROAD - STORM, UTILITIES, ROADWAY RECONSTRUCTION, CURBING, SIDEWALK AND DRIVEWAYS.

PHASE 3 - BRIGHTON ROAD TO COUNTRY CLUB TERRACE - STORM, UTILITIES, ROADWAY RECONSTRUCTION, PARKING LANE CONSTRUCTION, CURBING, SIDEWALK AND DRIVEWAYS.

PHASE 4 - FINAL ROADWAY RESURFACING

PHASE 5 - SIGNING AND PAVEMENT MARKINGS.

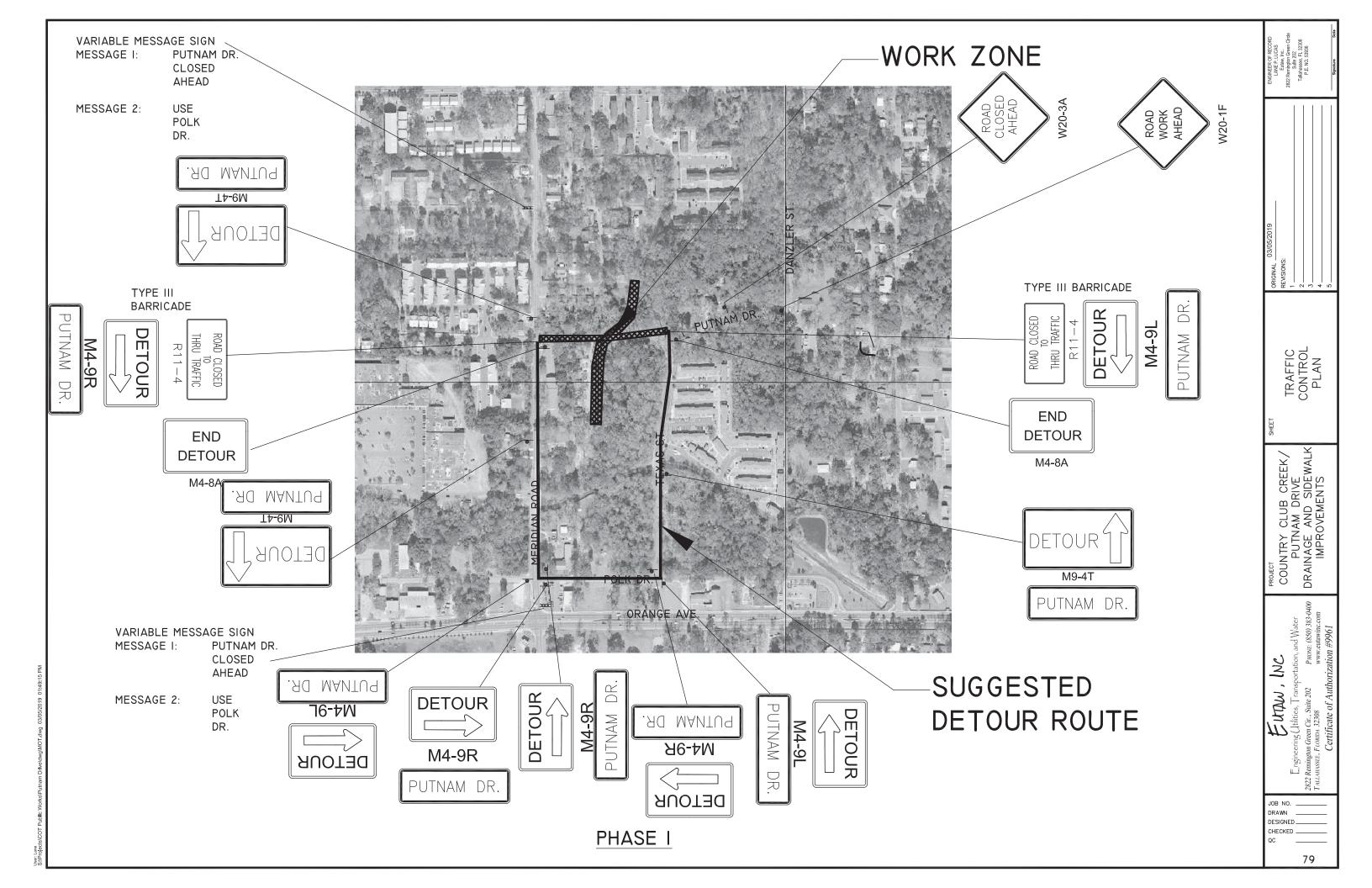
PROJECT
COUNTRY CLUB CREEK/
PUTNAM DRIVE
DRAINAGE AND SIDEWALK
IMPROVEMENTS

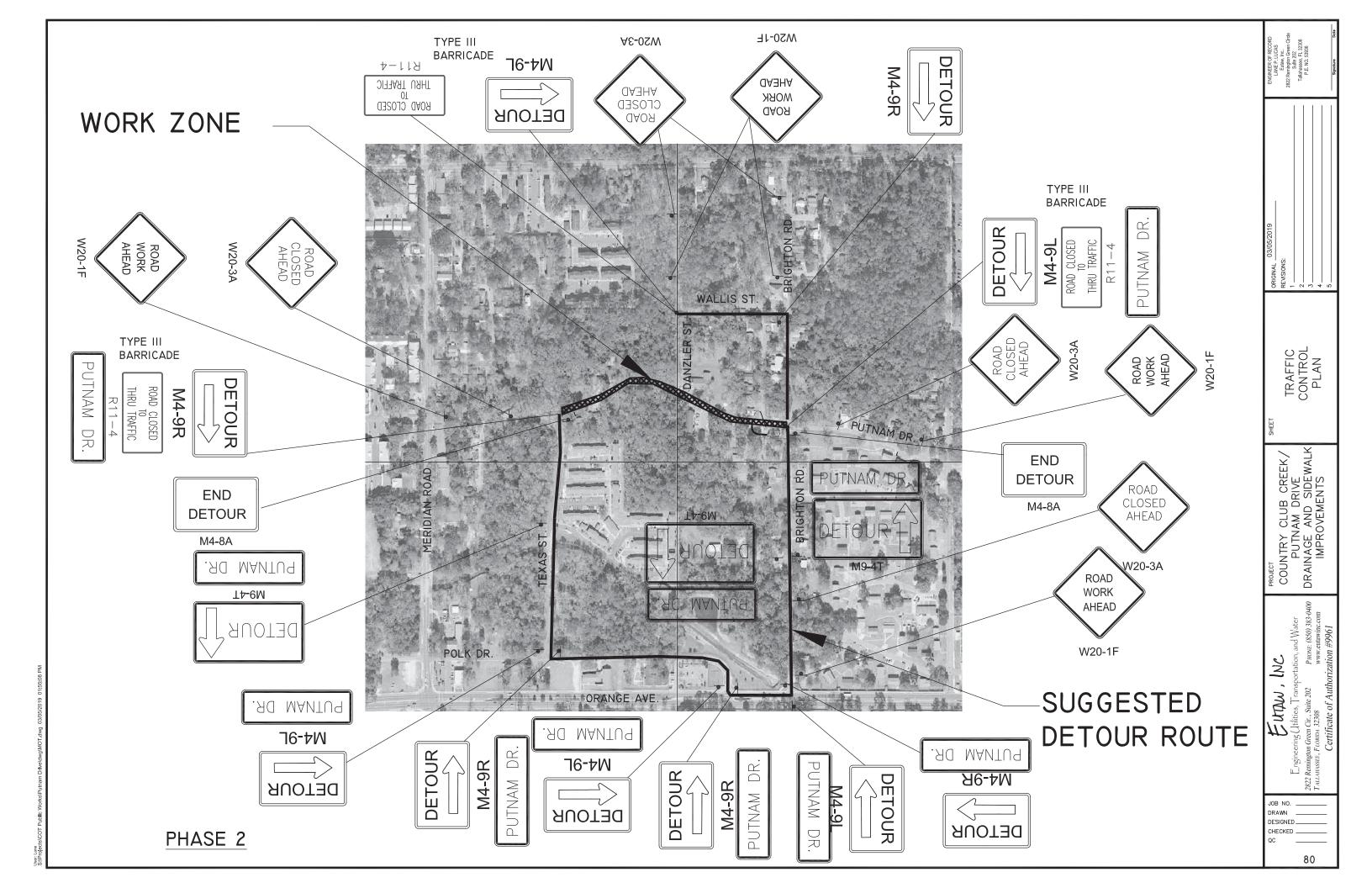
UTAW, INC

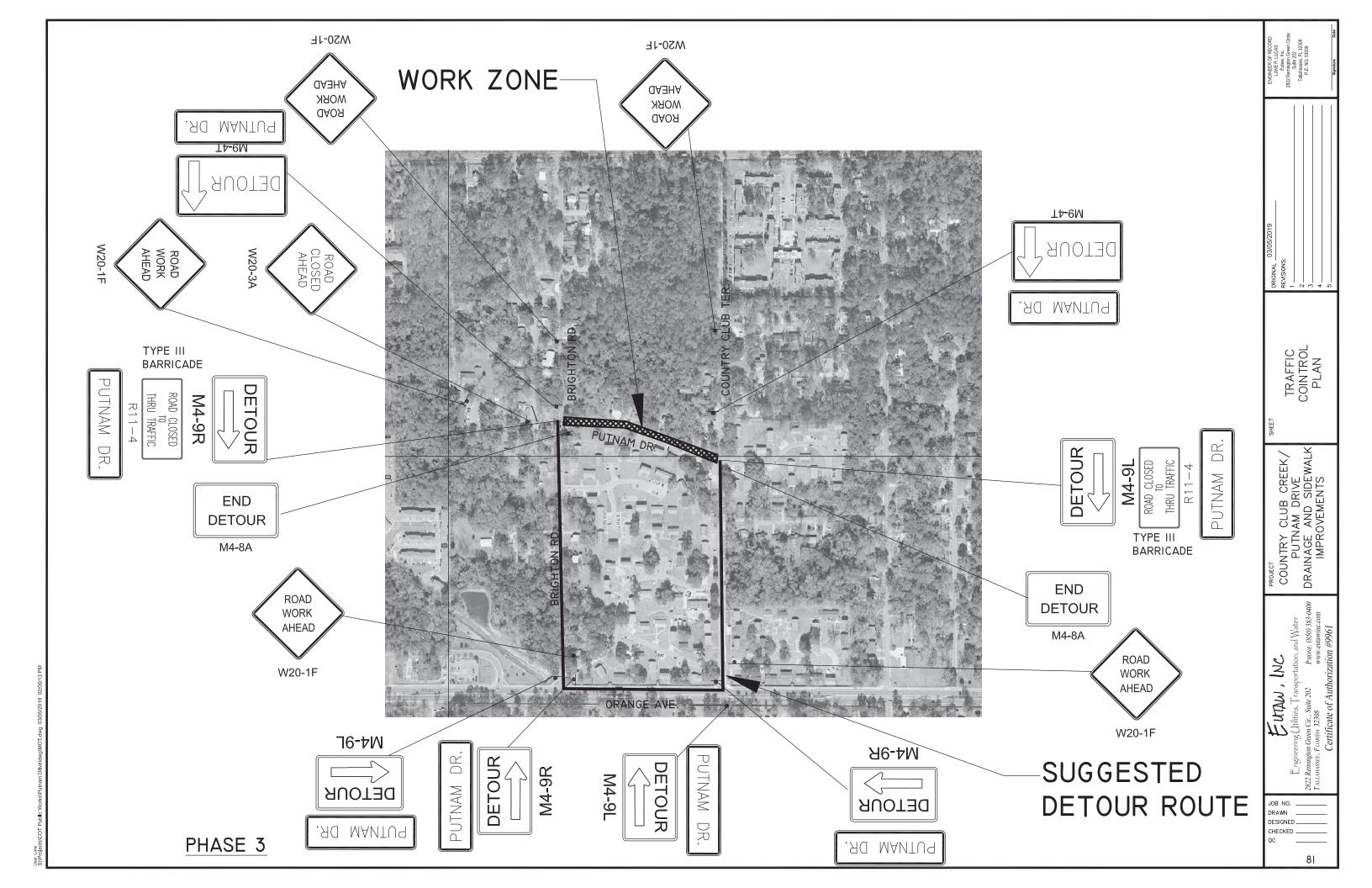
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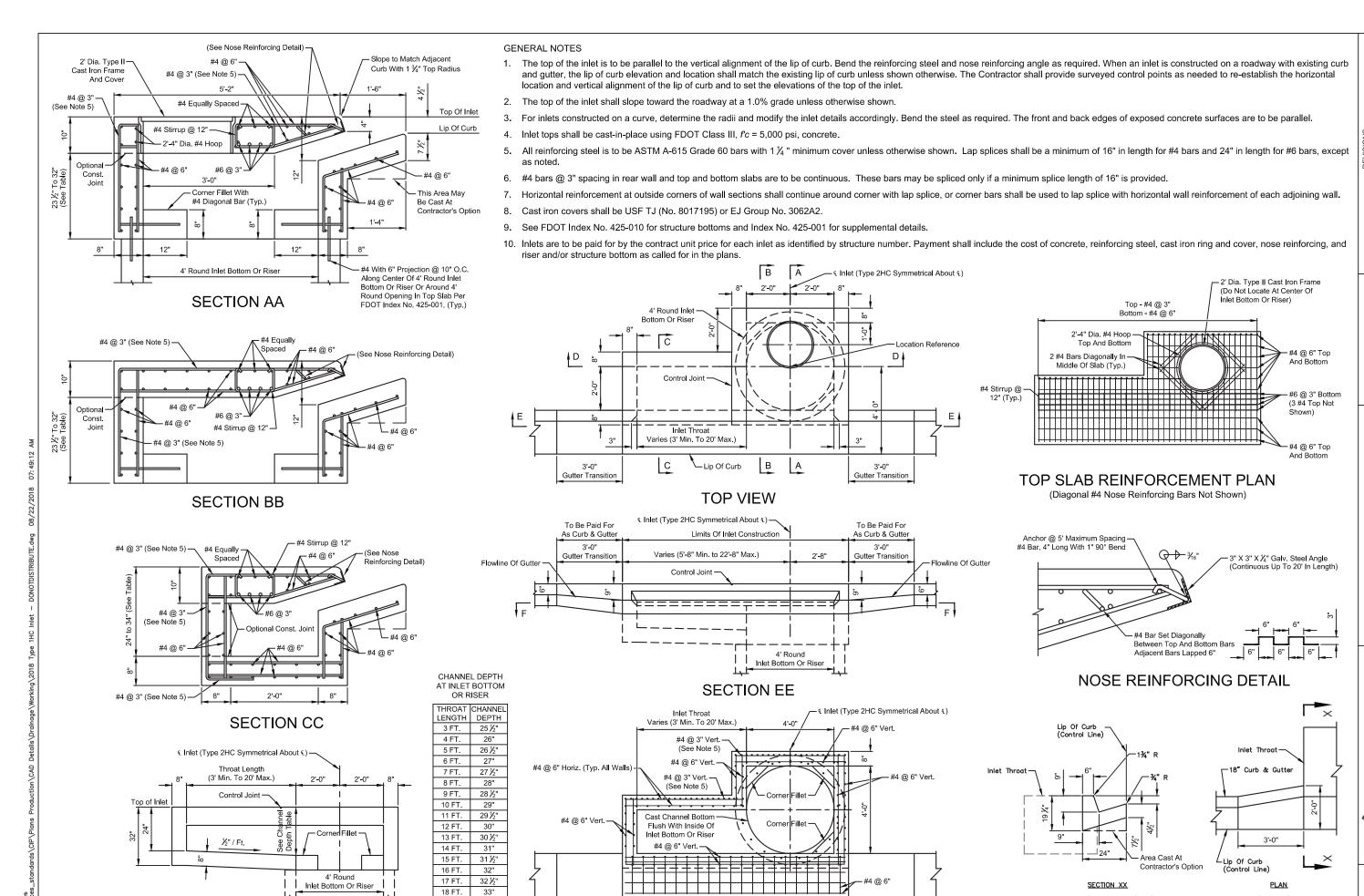
JOB NO. . DRAWN DESIGNED CHECKED .

78









SECTION FF

19 FT.

20 FT. 34"

SECTION DD

33 1/3"

SSEE LAST REVISION

OPS 2HC

CURB INLET
TYPES 1HC

∞

1HC

DETAIL

STANDARD

03/13/18

SHEET82 1

18" CURB & GUTTER TRANSITION

Inlet Throat End Of Structure (Opposite End Reversed)

SIGNING AND PAVEMENT MARKING NOTES: I. SIGNING AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE PLANS, THE FDOT DESIGN STANDARDS, THE FDOT STANDARD SPECIFICATIONS, AND THE AMERICAN WITH DISABILITIES ACT. 2. THE PAVEMENT MARKINGS AT ALL EXISTING/PROPOSED INTERFACE LOCATIONS ARE TO MATCH IN TERMS OF ALIGNMENT AND COLOR. 3. SIDE ROAD STOP BAR LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION TO OBTAIN PROPER SIGHT DISTANCE. 4. PAINT SHALL INCLUDE TWO (2) APPLICATIONS, ONE OF PAINT, THE SECOND WITH THERMOPLASTIC MATERIALS. SIGNING AND PAVEMENT MARKING PLANS COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS BEGIN SIGNING AND PAVEMENT MARKINGS W11-2 **P** SPECIAL EMPHASIS R1-1 CROSSWALK SEE FOT INDEX NO. 17346 FOR ADDITIONAL DETAILS __ 12" WHITE [] - 24" WHITE S-11W - I2" WHITE — 24" WHITE - DOUBLE 6" YELLOW - EXIST. R/W - +70 25+00 PUTNAM DR 24+00 21+00 22+00 23+00 FUTAW, INC - EXIST. R/W 200' - DOUBLE 6" YELLOW 12" WHITE -12" WHITE - 24" WHITE 24" WHITE - EXIST. R/W W11-2 DEAD END GOLF TERRACE DR REMOVE AND RELOCATE LIMIT 25

"ADOPT A HIGHWAY" SIGN

700-1-11

700-1-11

700-1-11

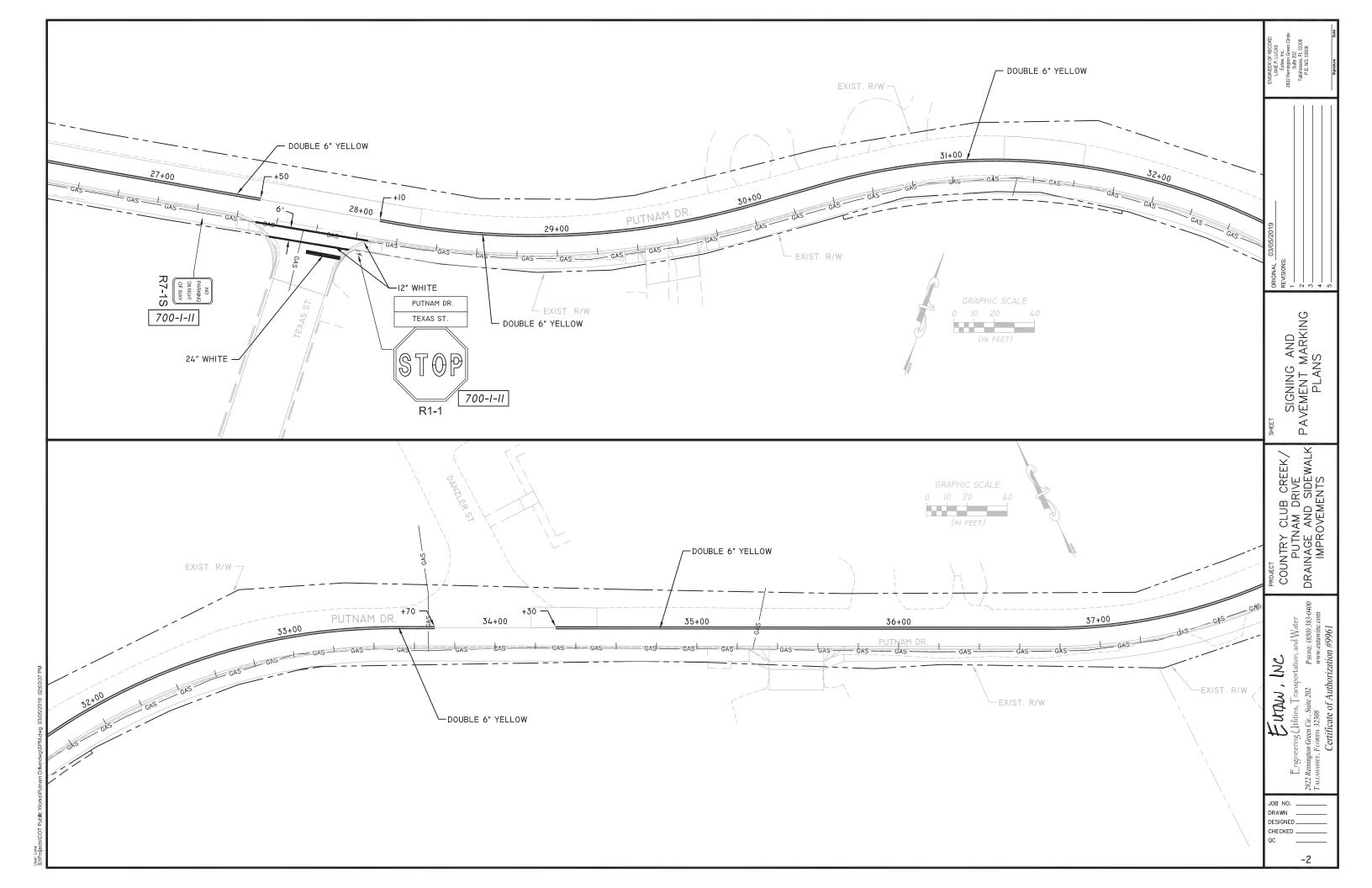
R1-1

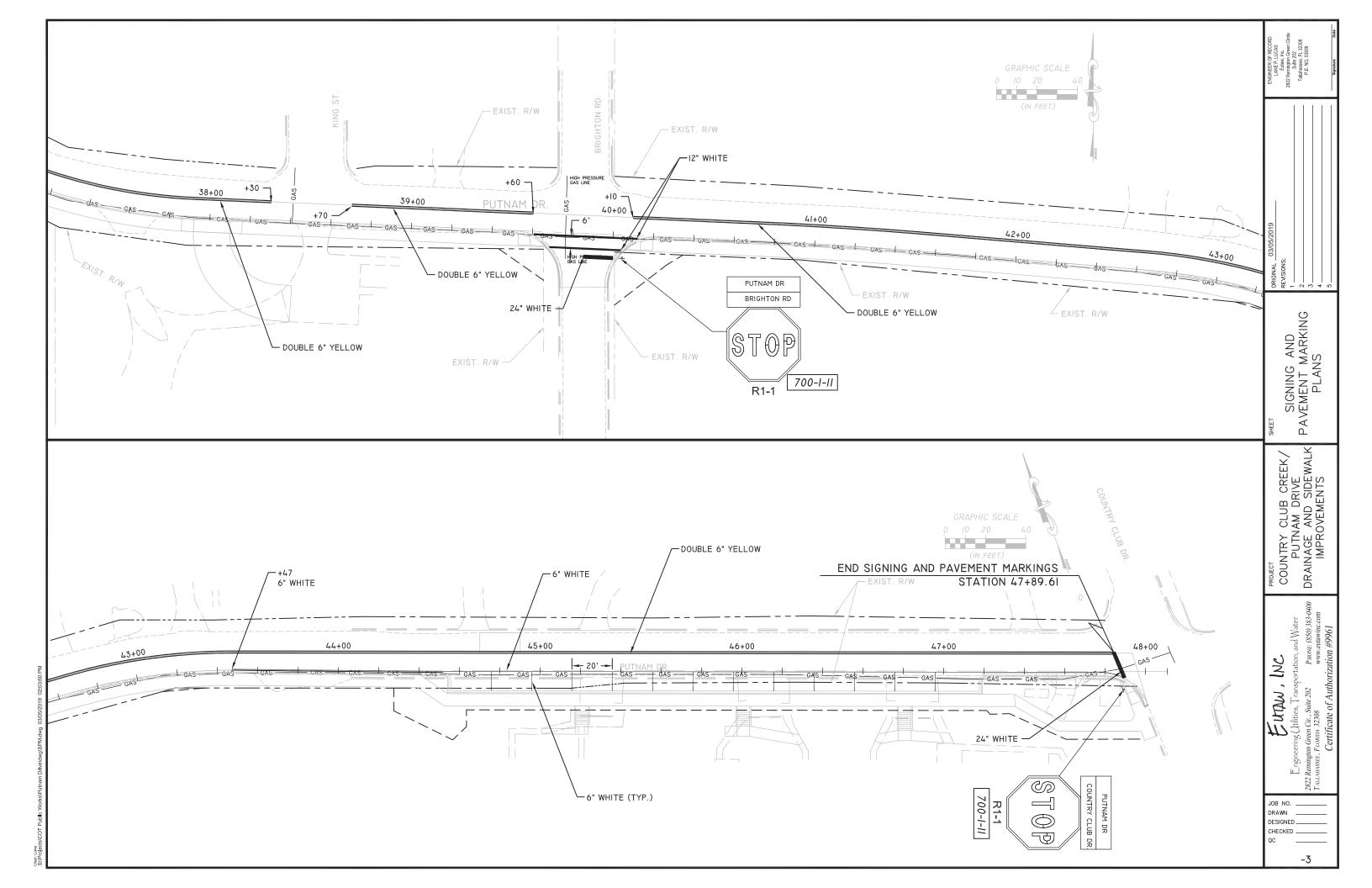
STOP

R1-1

AHEAD

JOB NO. . DRAWN DESIGNED_ CHECKED . S-I





CIACINETIA OI MEO	Brian E. Kever, P.	Kever McKee Engine	3370 Capital Circle NE,	Tallahassee, FL 32	Florida P.E. No. 65	

		_

ES . 2 7 NER,

GE

3 CREEK DRAINAC WALK ENTS CLUE DRIVE SIDEW SOVEMT \geq \vdash PUTNAM D AND IMPR(UNTR

MCKEE JEERING ICircle NE, Ste. F Florida 32308 KEVER

JOB NO. DRAWN DESIGNED CHECKED

		Al	BBREVIATIONS		
	INCH, INCHES	FCJ	FLOOR CONTROL JOINT	OPP	OPPOSITE
# %	NUMBER OR POUNDS PERCENT	FDN, FDTN FFE	FOUNDATION FINISHED FLOOR ELEVATION	OPP HD OPT	OPPOSITE HAND OPTIONAL
% &	AND	FIL	FILLET	OWJ	OPEN WEB JOIST
•	FOOT, FEET	FIN	FINISH, FINISHED		
= 0	EQUAL.	FLG	FLANGE FERRULE LOOP INSERT	PC	PRECAST CONCRETE
	AT DEGREE	FLI FLR	FLOOR	PCF PDF	POUNDS PER CUBIC FO POWER DRIVEN FASTENE
±	PLUS OR MINUS	FOB	FACE OF BRICK	PEN	PENETRATION
ø	DIAMETER	FOC	FACE OF CONCRETE	PERIM	PERIMETER
AB	ANCHOR BOLT	FOM FOS	FACE OF MASONRY FACE OF STUD	PERP PHW	PERPENDICULAR PARTIAL HEIGHT WALL
ACI	AMERICAN CONCRETE	FOV	FACE OF VENEER	PJP	PARTIAL JOINT PENETRA
100	INSTITUTE	FOW	FACE OF WALL	PL, PL	PLATE
ADD ADDL	ADDENDUM ADDITIONAL	FRMG	FRAMING	PLF	POUNDS PER LINEAL FO
ADH	ADHESIVE	FS FT	FAR SIDE FOOT, FEET	PLYWD PP	PLYWOOD PARTIAL PENETRATION
ADJ	ADJACENT	FTG	FOOTING	PREFAB	PREFABRICATED
aff ahu	ABOVE FINISHED FLOOR AIR HANDLING UNIT		CALIGE	PRELIM	PRELIMINARY
AISC	AMERICAN INSTITUTE OF	GA GALV	GAUGE GALVANIZED	PRSTR PSC	PRESTRESSED CONCRETE
	STEEL CONSTRUCTION	GB	GRADE BEAM	PSF	POUNDS PER SQUARE F
ALT ANCH	ALTERNATE ANCHOR, ANCHORAGE	GC	GENERAL CONTRACTOR	PSI	POUNDS PER SQUARE II
ANSI	AMERICAN NATIONAL	GLB GP	GLUE LAMINATED BEAM GUSSET PLATE	PSL PT	PARALLEL STRAND LUMB POINT
	STANDARDS INSTITUTE	GR GR	GRADE, GRADING	PTC	POST TENSION CONCRET
APPROX AR	APPROXIMATE ANCHOR ROD	GWB	GYPSUM WALL BOARD	PT	PRESSURE TREATED TIME
ARCH	ARCHITECT, ARCHITECTURAL			PVC	POLYVINYL CHLORIDE
ASCE	AMERICAN SOCIETY OF CIVIL	HAS HCP	HEADED ANCHOR STUD HOLLOW CORE PLANK	QTY	QUANTITY
ASTM	ENGINEERS AMERICAN SOCIETY FOR	HCS	HOLLOW CORE SLAB	WIII	
	TESTING AND MATERIALS	HDG	HOT DIPPED GALVANIZED	R	RADIUS
ATR	ALL THREADED ROD AMERICAN WELDING	HDR HGR	HEADER HANGER	RC RF	REINFORCED CONCRETE REFER TO
AWS	AMERICAN WELDING INSTITUTE	HGR HM	HANGER HOLLOW METAL	RE REF	REFER TO REFERENCE
		HORIZ, H	HORIZONTAL	REINF	REINFORCE(D), (ING),
BAL BCY	BALANCE BOTTOM CHORD EXTENSION	HP	HIGH POINT OR BEARING PILE	REQ	(MENT) REQUIRED
BCX BF	BOTTOM CHORD EXTENSION BRACED FRAME	HSB	PILE HIGH STRENGTH BOLT	REQ RETG	REQUIRED RETAINING
BLDG	BUILDING	HSS	HOLLOW STRUCTURAL	REV	REVISION, REVISED
BLKG	BLOCKING	нт	SECTION HEIGHT	RJ DO	RUSTICATION JOINT
BM BOD	BEAM BOTTOM OF DECK	HVAC	HEATING/VENTILATION/AIR	RO RTU	ROUGH OPENING ROOF TOP UNIT
BOF	BOTTOM OF FOOTING,		CONDITIONING	W.	
	FOUNDATION	IBC	INTERNATIONAL BUILDING	S	AMERICAN STANDARD SH
BOS BOT, B	BOTTOM OF STEEL BOTTOM		CODE	SC SCH, SCHED	SLIP CRITICAL SCHEDULE
BP	BASE PLATE OR BUTTON	ICB0	INTERNATIONAL CONFERENCE OF BUILDING	SEC SEC	SECURITY
PUNCH BRB	BUCKLING RESTRAINT		OFFICIALS	SECT	SECTION
BRACE		ICC-ES	ICC EVALUATION SERVICE	SF	SQUARE FOOT
BRG	BEARING	ICMU	INSULATED CONCRETE MASONRY UNIT	SHT SHTG	SHEET SHEATHING
BS BSMT	BOTH SIDES BASEMENT	ID	INSIDE DIAMETER	SIM	SIMILAR
BSMT BTWN	BASEMENT BETWEEN	IF.	INSIDE FACE	SOG	SLAB ON GRADE
		IJ IN	ISOLATION JOINT INCH, INCHES	SP SPCG	SPACE(S) SPACING
(c)	COLLECTOR CHANNEL	INCL	INCLUDED, INCLUDING	SPEC	SPACING SPECIFICATION
c c/c	CAMBER OR CHANNEL CENTER TO CENTER	INFO	INFORMATION	SQ	SQUARE
C-GROUT	COURSE GROUT	INSUL INT	INSULATION INTERIOR	SSH	STAINLESS STEEL SHORT SLOTTED HOLE
CANT	CANTILEVER	INV	INVERT	SSH SSPC	SHORT SLOTTED HOLE SOCIETY FOR PROTECTIV
CF CIP	CUBIC FOOT, FEET CAST-IN-PLACE				COATING
CJ	CONTROL JOINT	JST JT, JTS	JOIST JOINT, JOINTS	ST	STRUCTURAL TEE CUT F S SECTION
CJP	COMPLETE JOINT	ai, di5	voint, voint3	STD	STANDARD
CL, ©	PENETRATION CENTERLINE	K, KIP	KILOPOUND	STGD	STAGGERED
CLR	CLEAR, CLEARANCE	KSF	KIPS PER SQUARE FOOT	STIFF STL	STIFFENER STEEL
CMU	CONCRETE MASONRY UNIT	KSI	KIPS PER SQUARE INCH	STR	STAIR
COL COMP	COLUMN COMPOSITE OR	L	ANGLE OR LENGTH OR	STRUCT	STRUCTURAL
OUMP'	COMPOSITE OR COMPRESSION		LONG	SUPT	SUPPORT
CONC	CONCRETE	LAT LB	LATERAL LAG BOLT OR POUND	SW SYM	SHEAR WALL SYMMETRICAL
CONFIG CONN	CONFIGURATION CONNECTION	LE	LEFT END	VIII	
CONN	CONSTRUCTION	LF	LINEAR FOOT	T&B	TOP OF BOTTOM
CONT	CONTINUOUS	LFRS	LATERAL FORCE RESISTING SYSTEM	T&G TCX	TONGUE AND GROOVE TOP CHORD EXTENSION
CONTR	CONTRACTOR	LGT, LONG	LONGITUDINAL	TCX TEMP	TOP CHORD EXTENSION TEMPERATURE, TEMPERE
COORD CRSI	COORDINATE CONCRETE REINFORCING	LIB	LOAD INDICATOR BOLT		TEMPORARY
	STEEL INSTITUTE	LIN	LINEAR	TENS THK	TENSION THICK, THICKNESS
CTR	CENTER, CENTERED	LIW	LOAD INDICATOR WASHER LIVE LOAD	THRD	THREAD, THREADED
CU	CUBIC CURTAIN WALL	LLH	LONG LEG HORIZONTAL	TOB	TOP OF BEAM
CY	CURIAIN WALL CUBIC YARD	LLV	LONG LEG VERTICAL	TOC	TOP OF CONCRETE
	DENNY (NIN)	LNDG LNTL	LANDING LINTEL	TOCW	TOP OF CONCRETE WALL TOP OF FOOTING
d DRA	PENNY (NAIL) DEFORMED BAR ANCHOR	LOC	LOCATE, LOCATION	TOP	TOP OF PARAPET
DBL DBL	DOUBLE BAR ANCHOR	LP	LOW POINT	TOS	TOP OF STEEL
DC	DEMAND CRITICAL	LSH	LONG SLOTTED HOLE	TOSLAB TOW	TOP OF SLAB
DEG, *	DEGREE DEMONICH DEMONITION	LSL LSV	LAMINATED STUD LUMBER LONG SLOTTED HOLT	TPG	TOP OF WALL TOPPING
DEMO DIA	DEMOLISH, DEMOLITION DIAMETER		VERTICAL	TRA	THREADED ROD IN
DIA DIAG	DIAMETER DIAGONAL	LVL	LAMINATED VENEER LUMBER	TDANC	ADHESIVE ANCHOR TRANSVERSE
DIAPH	DIAPHRAGM	WAS	MASONRY	TRANS TSF	TRANSVERSE THICKENED SLAB FOOTIN
DIM	DIMENSION	MATL	MATERIAL	TYP	TYPICAL TYPICAL
DISC	DISCONTINUE, DISCONTINUOUS	MAX	MAXIMUM		
DL	DEAD LOAD	MB MC	MACHINE BOLT (A-307) MISCELLANEOUS CHANNEL	UBC UFRC	UNIFORM BUILDING CODE UPSET END FLANGE REE
DN	DOWN	MC MCR	MISCELLANEOUS CHANNEL MODIFIED CHLOROPRENE		COUPLER
do DP, D	DITTO DEEP, DEPTH		RUBBER	UNO	UNLESS NOTED OTHERW
DTL	DETAIL	MECH MEP	MECHANICAL MECHANICAL, ELECTRICAL,	UT	ULTRASONIC TEST
DWG, DWGS	DRAWING, DRAWINGS	MEP	MECHANICAL, ELECTRICAL, PLUMBING	VERT, V	VERTICAL
DWL, DWLS	DOWEL, DOWELS	MEZZ	MEZZANINE	VRY	VERIFY
EA	EACH	MF	MOMENT FRAME	VIF	VERIFY IN FIELD
EB	EXPANSION BOLT	MFR MID	MANUFACTURER MIDDLE	VMS	VERTICAL MOVEMENT SYSTEM
EE	EACH END	MIN	MINIMUM	VNR	VENEER
	EACH FACE	MISC	MISCELLANEOUS		
EF	EXPANSION JOINT FLEVATION	MLB	MICROLAM BEAM	W w/	WIDTH OR WIDE FLANGE
EJ	ELEVATION ELECTRICAL	MO MPT	MASONRY OPENING	W/ W/O	WITH WITHOUT
EJ EL	ELEVATOR	MPT MT	MAGNETIC PARTICAL TEST STRUCTURAL TEE CUT FROM	W/O	WITHOUT WALL CONTROL JOINT
EJ	EMBEDMENT, EMBEDDED		M SECTION	WD	WOOD
ej El Elec, Elect Elev Embed		MTL	METAL	WF	WIDE FLANGE
EJ EL ELEC, ELECT ELEV EMBED ENGR	ENGINEER	MIL			WORKING POINT
EJ EL ELEC, ELECT ELEV EMBED ENGR EOD	ENGINEER EDGE OF DECK		MUN"-ZHDIMA GOULL	WP	
EJ EL ELEC, ELECT ELEV EMBED ENGR	ENGINEER EDGE OF DECK EDGE OF SLAB	N-GROUT NIC	NON-SHRINK GROUT NOT IN CONTRACT	WP WPS	WELDING PROCEDURES
EJ EL ELEC, ELECT ELEV EMBED ENGR EOD EOS	ENGINEER EDGE OF DECK	N-GROUT	NON-SHRINK GROUT NOT IN CONTRACT NON-LOAD BEARING		
EJ EL ELEC, ELECT ELEV EMBED ENGR EOD EOS EQ EQP, EQUIP ES	Engineer Edge of Deck Edge of Slab Equal Equipment Each Side	N-GROUT NIC NLB NO	NOT IN CONTRACT NON-LOAD BEARING NUMBER	WPS	WELDING PROCEDURES SPECIFICATIONS WELD STUD WEIGHT OR STRUCTURAL
EJ EL ELEC, ELECT ELEV EMBED ENGR EOD EOS EQ EQP, EQUIP ES EW	engineer edge of deck edge of slab equal equipment each side each way	N-GROUT NIC NLB NO NOM	NOT IN CONTRACT NON-LOAD BEARING NUMBER NOMINAL	WPS WS	WELDING PROCEDURES SPECIFICATIONS WELD STUD WEIGHT OR STRUCTURAL TEE CUT FROM W SECTION
EJ EL ELEC, ELECT ELEV EMBED ENGR EOD EOS EQ EQP, EQUIP ES	Engineer Edge of Deck Edge of Slab Equal Equipment Each Side	N-GROUT NIC NLB NO	NOT IN CONTRACT NON-LOAD BEARING NUMBER	WPS WS WT	WELDING PROCEDURES SPECIFICATIONS WELD STUD WEIGHT OR STRUCTURAL

OUTSIDE DIAMETER OUTSIDE FACE

OVERSIZED HOLE

F-GROUT

FINE GROUT

FABRICATE

FLORIDA BUILDING CODE

1. GENERAL NOTES

- 1.1. THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 6th EDITION (2017). THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCE STANDARD APPLIES TO THIS PROJECT. UNLESS OTHERWISE NOTED, ALL WORK AND MATERIALS SHALL CONFORM WITH THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- 1.2. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIFLD CONDITIONS, DIMENSIONS, AND PROJECT SHOP DRAWINGS PROT O CONSTRUCTION, DO NOT SCALE DRAWINGS, USE ONLY PRINTED
 DIMENSIONS, REPORT ANY DISCREPANCIES OR FIELD CONDITIONS ENCOUNTERED IN CONFLICT WITH THE
 DRAWINGS IN WRITING TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH WORK, DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE ARCHITECT OR ENGINEER OF RECORD.
- 1.3. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE DESIGN, ADEQUACY, SAFETY AND STABILITY OR ERECTION BRACING, FORMWORK, SHORING, AND TEMPORARY SUPPORTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 1.4. DETAILS LABELED AS "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION.
- 1.5. THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK, AND THE GENERAL PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSTIE SAFETY INCLUDING ALL OSHA REQUIREMENTS. THE STRUCTURAL ENGINEER OF RECORD HAS NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION PERSONNEL RELATED TO THEIR WORK OR ANY HEALTH OR CHEET AND AUTHORITY TO THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS.

2. ASSUMED SOIL PROPERTIES & SUPERIMPOSED LOADS

MOIST UNIT WEIGHT	= 125 PCF
ANGLE OF INTERNAL FRICTION	= 30 DEGREES
ACTIVE PRESSURE COEF.	= 0.33
PASSIVE PRESSURE COEF.	= 3.00
COHESION	= 0 PSF
SURCHARGE	= 100 PSF

3. WIND LOADING

3.1. DESIGN CRITERIA PER ASCE 7-10 FOR INFORMATIONAL PURPOSES ONLY:

WIND SPEED (ULT/ASD)	= 120 MPH / 93 MPH
RISK CATEGORY	=
WIND EXPOSURE CATEGORY	= B
ENCLOSURE CLASSIFICATION	= N/A

4. EARTHWORK FOR STRUCTURES

- 4.1. FOUNDATION DESIGN, SOIL PREPARATION AND COMPACTION ARE BASED ON GEOTECHNICAL INVESTIGATION, DATA AND RECOMMENDATIONS IN FILE NO. 17—3272 BY ALPHA GEOTECHNICAL AND TESTING SERVICES, INC. DATED AUGUST 9, 2018. ALL FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATURAL SOIL PREPARED PER THE GEOTECHNICAL REPORT TO PROVIDE AND ALLOWABLE SOIL BEARING CAPACITY OF 2,500 PSF.
- 4.2. UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, ALL SOIL BELOW FOOTINGS SHALL BE COMPACTED TO A DEPTH OF 12 INCHES AT OPTIMUM MOISTURE CONTENT TO 95% OF THE MODIFIED PROCTOR, ASTM D1557. FILL SHALL BE PLACED AND COMPACTED IN LIFTS NO GREATER THAN 12 INCHES.
- 4.3. SUB-GRADE PREPARATION SHALL BE FIELD CONTROLLED AND TESTED BY A LICENSED GEOTECHNICAL ENGINEER IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AT COMPLETION, THAT ENGINEER SHALL PREPARE AND SUBMIT TO THE OWNER, ARCHITECT, CONTRACTOR, AND STRUCTURAL ENGINEER A SIGNED AND SEALED LETTER INDICATING THAT THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT HAVE BEEN FOLLOWED.

FORMWORK

- 5.1. DESIGN, ERECTION AND REMOVAL OF FORMWORK, AND SHORING AND RESHORING IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- 5.2. CONSTRUCTION, ERECTION, AND REMOVAL OF FORMWORK SHALL BE IN ACCORDANCE WITH ACI 301 AND 347.

CONCRETE

- 6.1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301 AND 318 AND CRSI STANDARDS.
- 6.2. PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS OF:

5,500 PSI NW FDOT CLASS IV 5,500 PSI NW FDOT CLASS IV FND WALLS

- 6.3. ALL CONCRETE SHALL BE NORMAL WEIGHT (NW), U.O.N.
- 6.4. CONTRACTOR SHALL MAKE SETS OF FOUR ACCEPTANCE CYLINDERS FOR STRENGTH TESTING FOR EACH 50 CONTRACTOR SHALL MAKE SETS OF YOUR ACCEPTANCE CYLINDERS FOR STRENGTH TESTING FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED. CYLINDERS SHALL BE MADE IN ACCORDANCE WITH ASTM C31 AND C172. TESTING SHALL BE PERFORMED BY AN ACI CERTIFIED TESTING LABORATORY AND SHALL BE PAID FOR BY THE CONTRACTOR. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND/OR STRUCTURAL ENGINEER OF ANY TEST NOT MEETING THE REQUIREMENTS OF THE SPECIFIED TESTS. COPIES OF REPORTS DOCUMENTING THE TEST RESULTS SHALL BE MAINTAINED BY THE CONTRACTOR AND MADE AVAILABLE UPON REQUEST.
- 6.5. PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING AS SHOWN IN THE PROVIDED REBAR LAP SPLICE LENGTHS TABLE.
- 6.6. PROVIDE COVER OVER REINFORCING STEEL AS FOLLOWS

THOUSE OFFICE OFFICE ACTIONS	
CAST AGAINST & EXPOSED TO EARTH/WEATHER	3"
EXPOSED TO EARTH/WEATHER	
#6 THROUGH #18 REBAR	2"
#5 REBAR, W31/D31 WIRE OR SMALLER	1-1/2"
NOT EXPOSED TO EARTH/WEATHER	
SLABS, WALLS, JOISTS	
#14 AND #18 REBAR	1-1/2"
#11 REBAR AND SMALLER	3/4"
BEAMS AND COLUMNS	
REINF, TIES, STIRRUPS, SPIRALS	1-1/2"

- 6.7. CURE ALL CONCRETE SURFACES FOR A PERIOD OF SEVEN DAYS UNTIL AVERAGE COMPRESSIVE STRENGTH HAS REACHED 70% OF THE SPECIFIED 28 DAY STRENGTH. CURING SHALL BE BY PONDING, MOIST CURING WITH SAND OR ABSORPTIVE MATS KEPT CONTINUOUSLY WET, CONTINUOUS APPLICATION OF STEAM (NOT EXCEEDING 105 F) OR MIST SPRAY WATERPROOF CURING PAPER OR LIQUID MEMBRANE FORMING CURING COMPOUND SELECTION OF CURING METHOD SHALL BE COMPATIBLE WITH THE FINISH TO BE APPLIED TO THE CONCRETE
- 6.8. PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.

7. SOLDIER PILE WALL

- 7.1. THE WALL SHOWN IN THESE PLANS IS INTENDED TO BE A TEMPORARY WALL THAT CAN BE REMOVED WHEN THE PROPOSED EXTENSION OF THE BOX CULVERT IS REQUIRED. THE LIFE SPAN OF THIS WALL IS ASSUMED TO BE NO MORE THAN 5 YEARS.
- 7.2. FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE, W/ AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", WITH COMMENTARY, AND ALL OSHA REQUIREMENTS.
- 7.3. ALL STEEL CONNECTIONS SHALL CONFORM TO AISC MANUAL "STANDARD FRAMED BEAM CONNECTIONS" UNLESS SHOWN OTHERWISE.

7.4. STRUCTURAL STEEL SHAPES SHALL BE FABRICATED FROM THE FOLLOWING MATERIALS:

ROLLED W AND WT SHAPES: ASTM A992, GRADE 50 ROLLED M, S, C AND MC SHAPES AND ANGLES: ASTM A36, fy=36 KSI

- 7.5. ALL SHOP AND FIELD WELDING SHALL CONFORM TO THE AWS D1.1 STRUCTURAL WELDING CODE BY THE MERICAN WELDING SOCIETY. USE E70 SERIES WELDING ELECTRODES, U.O.N. WHERE NECESSARY, REMOVE
- 7.6. CUT. DRILL, OR PUNCH HOLES PERPENDICULAR TO METAL SURFACES, REAM HOLES THAT MUST BE ENLARGED TO ADMIT BOLTS AS PERMITTED BY ARCHITECT. DO NOT ENLARGE UNFAIR HOLES BY BURNING OR USING DRIFT
- 7.7. HOT DIP GALVANIZATION (WHERE REQUIRED BY CONSTRUCTION DOCUMENTS)
 - 7.7.1. ANY STRUCTURAL STEEL EXPOSED TO THE ELEMENTS SHALL BE HOT DIPPED GALVANIZED
 - 7.7.1. ANY STRUCTURAL STEEL EAROSED THE ELEMENTS STALL BE ROT DIFFED GALVANIZED.
 7.7.2. AFTER FABRICATION, STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED PER ASTM A123 TO A MINIMUM THICKNESS OF 3.9 MILS.
- 7.7.3. NO FIELD DRILLING, CUTTING, WELDING, OR OTHER ADJUSTMENTS WILL BE PERMITTED AFTER HOT DIP GALVANIZING.
- 7.7.4. TOUCH UP ANY DAMAGE TO GALVANIZED SURFACES WITH TWO COATS OF ZINC BASED TOUCH UP COATING SIMILAR TO ZRC COLD GALVANIZING COMPOUND MANUFACTURED BY ZRC WORLDWIDE.
- 7.8. SHOP AND FIELD PAINTING OF STEEL ELEMENTS
 - 7.8.1. PRIMER: FABRICATOR'S STANDARD, LEAD AND CHROMATE FREE, NON-ASPHALTIC, RUSTING INHIBITING
- PRIMER CONFORMING TO SSPC-PAINT 25, TYPE II.

 7.8.2. SURFACE PREPARATION: CLEAN SURFACES TO BE PRIMED TO REMOVE LOOSE RUST AND MILL SCALE USING SSPC-SP 2, "HAND TOOL CLEANING" AND SSPC-SP 3 "POWER TOOL CLEANING.
- 7.8.3. IMMEDIATELY AFTER SURFACE PREPARATION, APPLY TO PROVIDE A DRY FILM THICKNESS OF NOT LESS
- 7.8.4. FIELD TOUCH UP: RE-CLEAN AND REPAINT ALL PRIMED SURFACES (INCLUDING EXISTING STEEL SURFACES) DAMAGED BY ERECTION PROCESS, INCLUDING ALL FASTENERS AND OTHER STEEL
- 7.9. ALL TIMBER ELEMENTS SHOWN SHALL BE No. 2, SOUTHERN YELLOW PINE RATED FOR GROUND CONTACT.

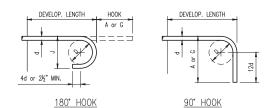
8. CHEMICAL ADHESIVES FOR ANCHOR BOLTS AND RODS

- 8.1. USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE POWERS RAWL POWER-FAST SYSTEM, HILTI HIT HY200, ITW RAMSET/RED HEAD EPCON A7 OR C6 INJECTION SYSTEM, ALLIED FASTENER ALLIED GOLD A-1000. OR ACCEPTED EQUIVALENT, FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND
- 8.2. CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A ¼ INCH DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- 8.3. DRILL χ_6 Inch larger diamter hole than anchor bolt and χ inch larger hole than reinforcing bar. Thoroughly clean hole including removal of dust prior to filling with Epoxy.
- 8.4. PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
- 8.5. THREADED RODS ARE A36 GALVANIZED STEEL, U.O.N.

REBAR LAP SPLICE LENGTHS							
DAD CITE	f'c = 3,	,000 PSI	f'c = 4,000 PSI f'c = 5,000 F			,000 PSI	
BAR SIZE	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	
#3	16"	21"	14"	18"	13"	17"	
#4	22"	28"	19"	25"	17"	22"	
#5	27"	36"	24"	31"	21"	28"	
#6	33"	43"	28"	37"	25"	33"	
#7	48"	62"	42"	54"	37"	48"	
#8	55"	71"	47"	62"	42"	55"	
#9	62"	80"	54"	70"	48"	62"	
#10	70"	90"	60"	78"	54"	70"	
#11	77"	100"	67"	87"	60"	78"	

REBAR LAP SPLICE NOTES:

- CLASS B SPLICES SHALL BE PROVIDED FOR ALL COLUMN REINFORCING STEEL. 2 CLASS A SPLICES ARE ALLOWED FOR CONTINUOUS REINFORCING STEEL IF NO
- MORE THAN 50% OF THE STEEL IS LAPPED AT THE SAME LOCATION.

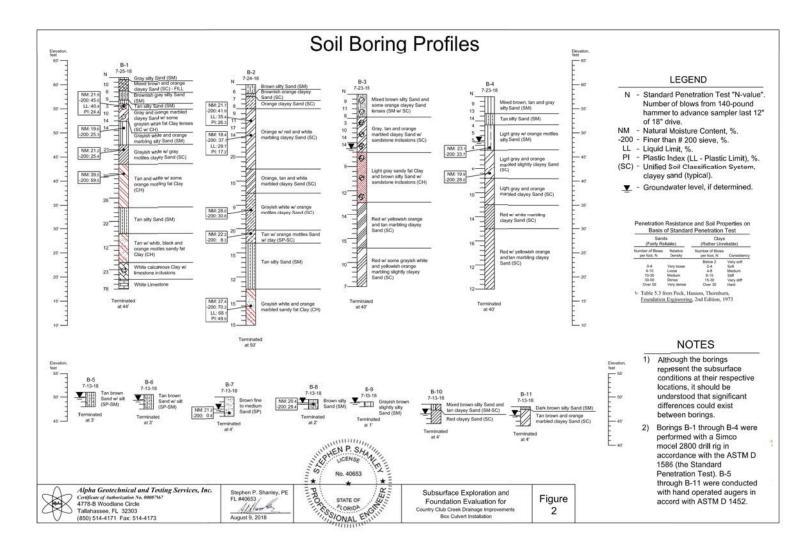


	STD	. HOOK I	DIMENSI	SNC	DEVELOP. LENGTHS		
BAR SIZE	PIN DIAM.	180*	H00K	90° HOOK CONC. COMPRESSIVE STREE		STRENGTH	
DAK SIZE	D	A or G	J	A or G	3,000 PSI	4,000 PSI	5,000 PSI
#3	21/4"	0'-5"	0'-3"	0'-6"	6"	6"	6"
#4	3"	0'-6"	0'-4"	0'-8"	8"	7"	6"
#5	3¾"	0'-7"	0'-5"	0'-10"	10"	9"	8"
#6	4½"	0'-8"	0'-6"	1'-0"	12"	10"	9"
#7	5¼"	0'-10"	0'-7"	1'-2"	14"	12"	11"
#8	6"	0'-11"	0'-8"	1'-4"	16"	14"	12"
#9	9½"	1'-3"	0'-11¾"	1'-8"	18"	15"	14"
#10	10¾"	1'-5"	1'-1¼"	1'-10"	20"	17"	15"
#11	12"	1'-7"	1'-2¾"	2'-1"	22"	19"	17"

- TO THIS PROJECT OF MINISHED BEND DIAMETERS.

 REFER TO ACI 315 FOR ALTERNATE BEND PATTERN DIMENSIONS AND REQUIREMENTS.

 ASTM AGA? REQUIRES THAT BARS BENT COLD PRIOR TO HOT DIP GALVANIZING MUST BE FABRICATED TO AMINIMUM BEND DIAMETER EQUAL TO 7 INCHES FOR #7 BAR AND 8



- GEOTECHNICAL INFORMATION NOTES

 1. THE ABOVE EXCERPTS FROM THE PROJECT GEOTECHNICAL REPORT ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY AND SHALL NOT BE USED FOR DESIGN OR CONSTRUCTION PURPOSES WITHOUT
- SEE STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING THE PROJECT GEOTECHNICAL REPORT.

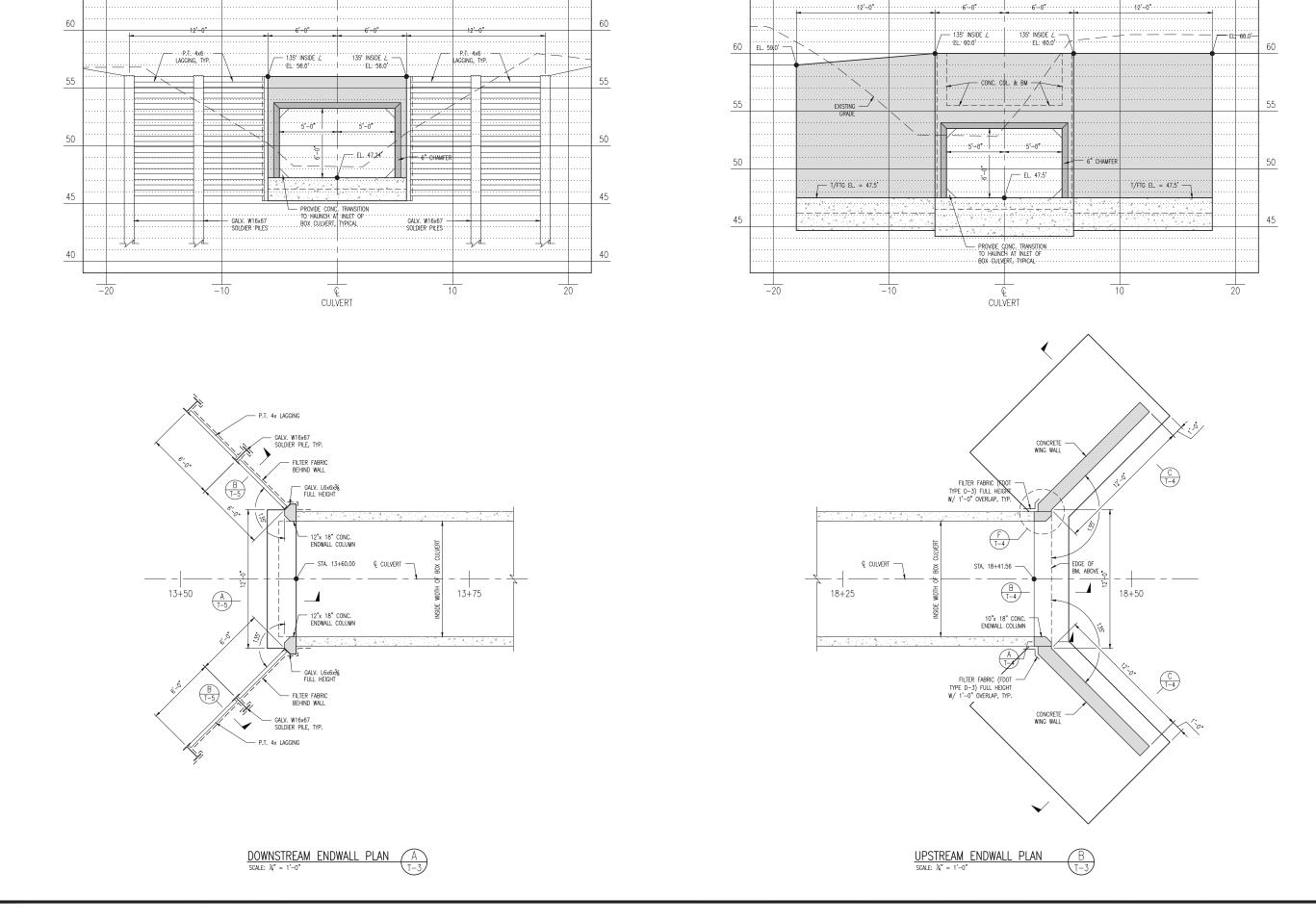
GEOTECHNICAL INFORMATION

COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

KEVER | MCKEE ENGINEERING 3330 Capital Cricle Ns. Ste. F Tallahasee, Florida 2338 ""Teste. 85,0727,5867



JOB NO. DRAWN DESIGNED_ CHECKED .



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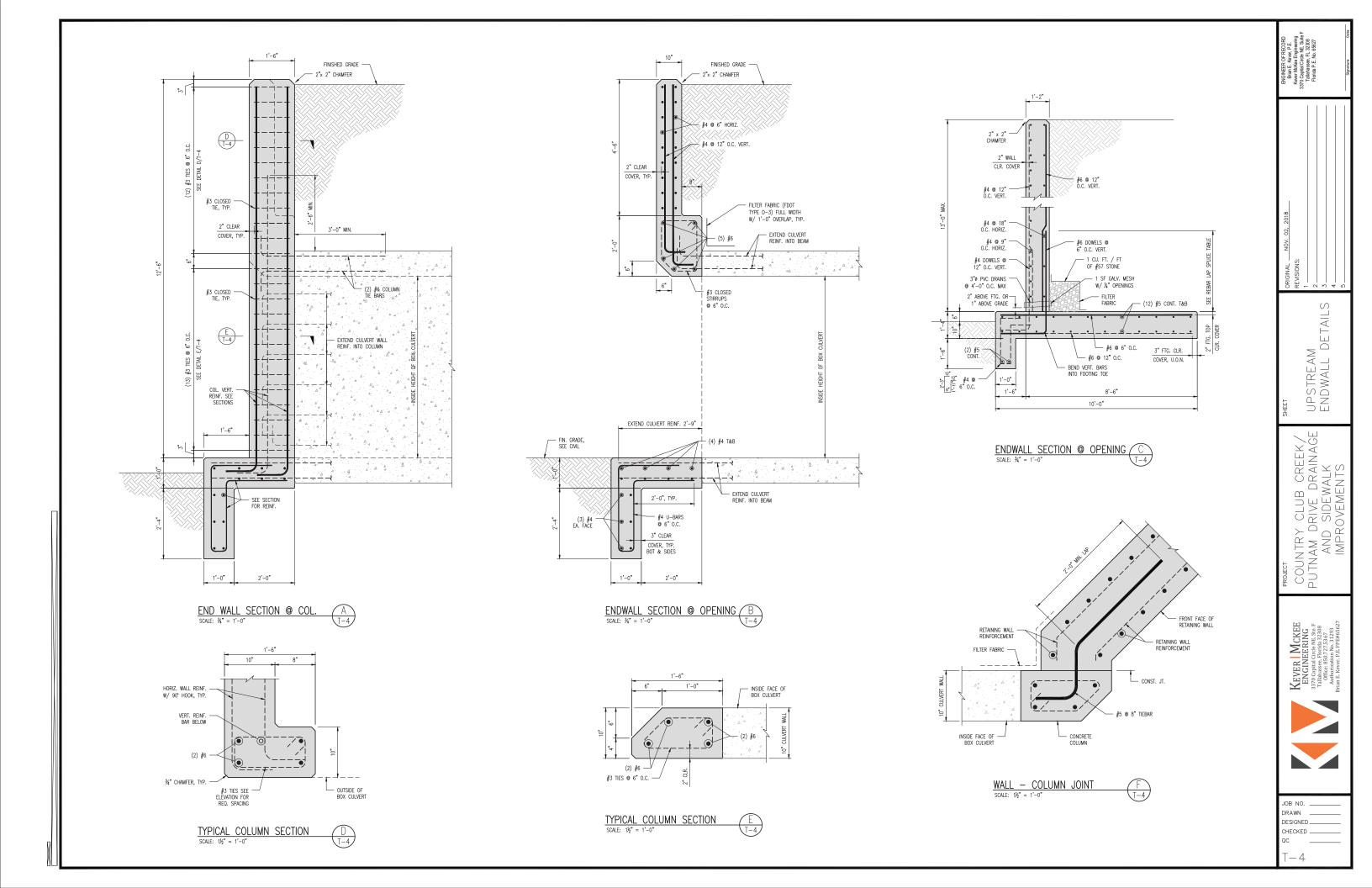
COUNTRY CLUB CREEK/ PUTNAM DRIVE DRAINAGE AND SIDEWALK IMPROVEMENTS

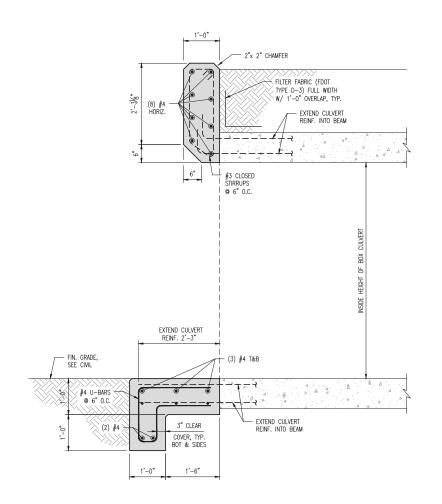
KEVER | MCKEE ENGINEERING 3370 Capital Circle Ng. Ste. F Tallahassee, Porda 32308 Office 85.0727.5367 Authorization No. 31293

JOB NO. . DRAWN DESIGNED __

CHECKED _

ENDWALL PLANS & ELEVATIONS





END WALL SECTION
SCALE: ¾" = 1'-0"

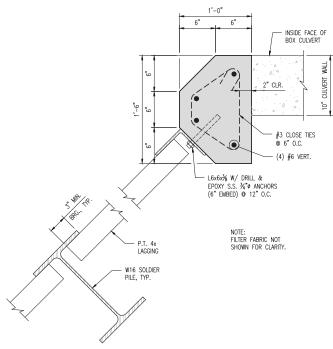


FIN. GRADE -

- GALV. W16 SOLDIER PILE, SEE PLAN

P.T. 4x LAGGING

- FILTER FABRIC



SOLDIER PILE ENDWALL DETAIL C SCALE: 1½" = 1'-0"

PROJECT
COUNTRY CLUB CREEK/
PUTNAM DRIVE DRAINAGE
AND SIDEWALK
IMPROVEMENTS KEVER | MCKEE ENGINERING 3370 Captal Circle NS, 8ce. F Tallahassee, Fordia 32308 Office, 8500, 21293 Authorization No. 31293 Brian E, Kever, PL. FPE#65627

JOB NO. . DRAWN . DESIGNED __ CHECKED _

DOWNSTREAM ENDWALL DETAILS