

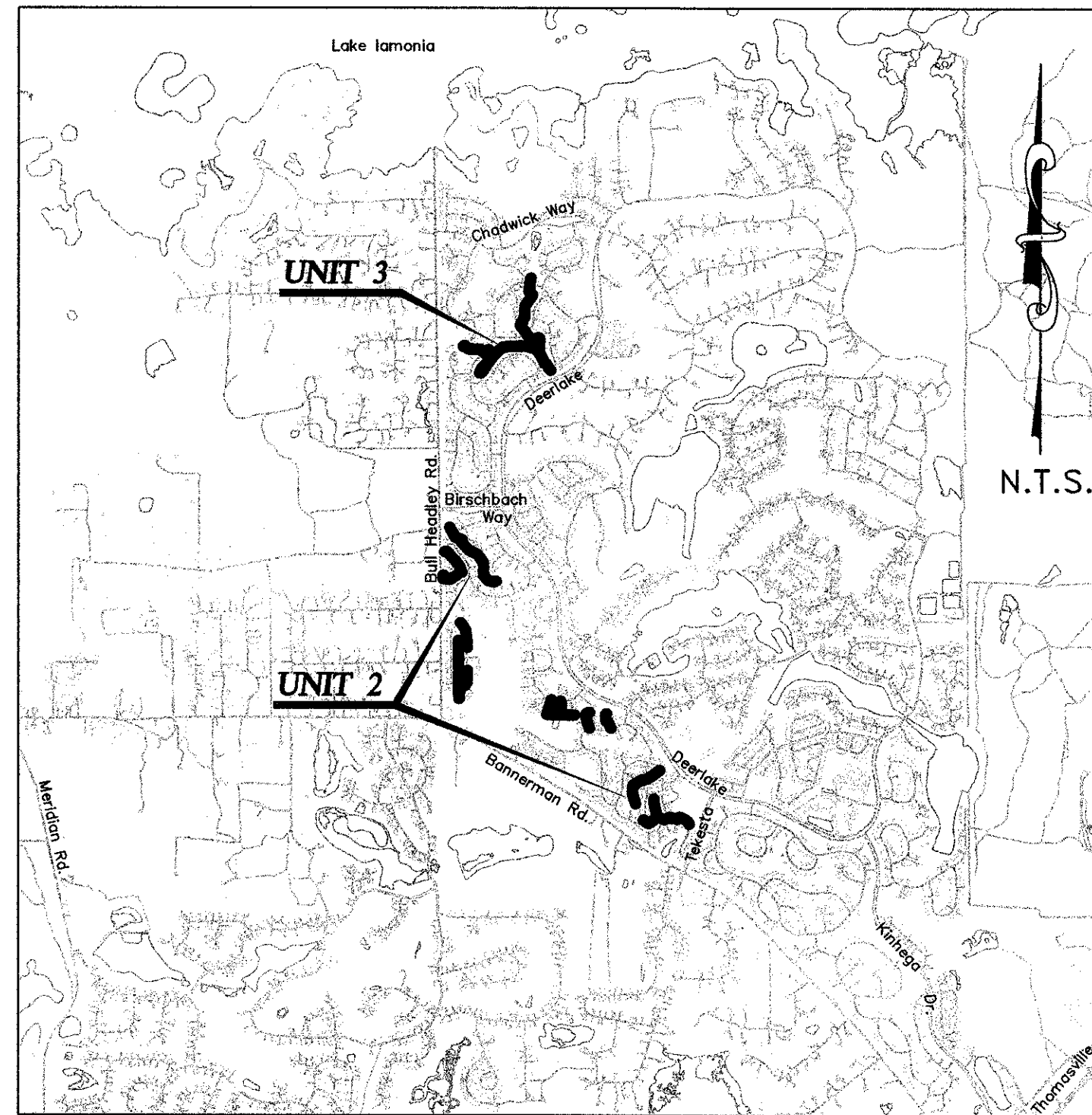
# CONSTRUCTION DOCUMENTS

FOR:  
**Killearn Lakes Greenways  
 Maintenance and Restoration Plans  
 Phase 1 B (Units 2 & 3)**

PREPARED FOR:

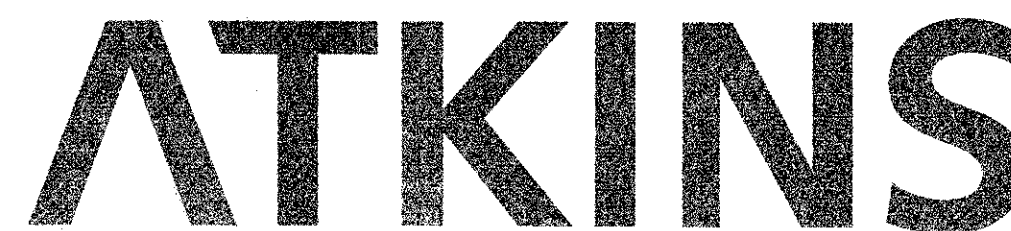


**LEON COUNTY  
 PUBLIC WORKS**  
 2280 Miccosukee Road  
 Tallahassee, FL 32308  
 Ph: 850-606-1500 Fax: 850-606-1501



**LOCATION MAP**  
 N.T.S.

PREPARED BY:



2839 N. Monroe St. Building C - Tallahassee, Florida 32303 - 850.575.1800  
 FBPR Certificate of Authorization No. 24

**OCTOBER 2012**

## GENERAL NOTES

- ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY BY HSA CONSULTING GROUP INC. DATED 6/25/2010, AND 12/22/2011, AND TIGGIS LIDAR 2' CONTOURS.
- SURVEY DATUM-NAVD 1988.
- ALL ROADWAY AND DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2010, DIVISIONS II AND III.
- ALL FDOT INDEX NUMBERS REFER TO THE 2010 EDITION OF THE FDOT DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM
- AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL DESIGNATE A REPRESENTATIVE WHO IS CERTIFIED IN EROSION AND SEDIMENTATION CONTROL AND SHALL BE CAPABLE OF BEING REACHED 24 HOURS A DAY, 7 DAYS A WEEK.
- THE CONTRACTOR WILL DESIGNATE A STORMWATER MANAGEMENT CONTROL OFFICER PRIOR TO THE PRECONSTRUCTION MEETING, AND WILL INFORM THE ENVIRONMENTAL INSPECTOR.
- EXISTING UTILITIES HAVE BEEN LOCATED USING THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND PROVIDE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL (1-800-432-4770), 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CURRENT EXISTING DEEDS AND PLATS COMPILED FROM THE LEON COUNTY CLERK OF COURT WERE UTILIZED FOR COMPILING PROPERTY AND EASEMENT LINES FOR THIS SURVEY. PROPERTY LINES WITHIN THE PLATS USED, IN SOME AREAS, DON'T MEET OR MATCH THE MONUMENTATION FOUND. RECORDED PLAT LINES, TIGGIS PARCEL DATA AND MONUMENTATION WERE MERGED TO CREATE THE PARCEL BOUNDARIES SHOWN ON THESE PLANS. THE CONTRACTOR SHOULD CONFIRM THAT ALL DISTURBED AREAS ARE WITHIN THE RIGHT OF WAY, H.O.A. GREEN SPACES, OR DRAINAGE EASEMENTS.
- HORIZONTAL AND VERTICAL CONTROL SHALL BE OBTAINED FROM THE PROJECT SURVEYOR, AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUT COSTS, MAINTAINING THE CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION, & FOR POST CONSTRUCTION AS-BUILT SURVEY.
- ALL WORK SHALL OCCUR WITHIN THE PUBLIC R.O.W., COUNTY DRAINAGE EASEMENTS, AND GREENWAY OPEN SPACES UNLESS SPECIFICALLY INDICATED OTHERWISE. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND STAKING R.O.W. AND PROPERTY LINES PRIOR TO CONSTRUCTION.
- ALL DISTURBED AREAS THAT ARE NOT STABILIZED OR PLANTED SHALL BE SODED, AS APPLICABLE, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. PROBLEM AREAS SHALL BE SODED AS DIRECTED BY THE STORMWATER MANAGEMENT CONTROL OFFICER.
- THE CONTRACTOR SHALL SUBMIT A POST-CONSTRUCTION CERTIFICATION AND REPRODUCIBLE RECORD DRAWINGS TO THE ENGINEER PRIOR TO INSPECTION AND ACCEPTANCE. THE RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.
- THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE LEON COUNTY ENVIRONMENTAL MANAGEMENT PERMIT.
- THE CONTRACTOR SHALL NOT SUBSTITUTE ANY ARTICLE, DEVICE, PRODUCT, MATERIAL OR FIXTURE, OR ANY FORM OR TYPE OF CONSTRUCTION, FOR THAT WHICH IS INDICATED IN THE APPROVED PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF THE COUNTY ENGINEER OR THE COUNTY ENGINEER'S DESIGNATED FIELD REPRESENTATIVE.
- AT LEAST FOURTEEN CALENDAR DAYS PRIOR TO THE PRECONSTRUCTION CONFERENCE THE CONTRACTOR SHALL SUBMIT A TENTATIVE BASE CONSTRUCTION SCHEDULE, TRAFFIC CONTROL PLAN, AND STAGING AREA PLAN TO THE ENGINEER AND LEON COUNTY PUBLIC WORKS FOR APPROVAL. NO WORK WILL BEGIN PRIOR TO APPROVAL OF THE CONSTRUCTION SCHEDULE, TRAFFIC PLAN, AND STAGING AREA PLAN. IF THE STAGING AREA PLAN REQUIRES OFF-SITE STAGING THE CONTRACTOR WILL BE REQUIRED TO OBTAIN ANY ADDITIONAL PERMITS THAT MAY BE NEEDED.
- CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY DISPOSING OF ANY EXCAVATED MATERIAL IN ACCORDANCE WITH COUNTY STANDARDS.
- A DISPOSAL SITE SHALL BE SUBMITTED BY THE CONTRACTOR AT OR PRIOR TO THE PRECONSTRUCTION MEETING, TO BE APPROVED BY THE ENVIRONMENTAL INSPECTOR. NO WORK WILL BEGIN PRIOR TO APPROVAL OF THE DISPOSAL SITE BY THE COUNTY ENGINEER, OR THE COUNTY ENGINEER'S DESIGNATED FIELD REPRESENTATIVE, AND THE ENVIRONMENTAL INSPECTOR.
- LEON COUNTY PUBLIC WORKS OR THEIR DESIGNEE SHALL BE RESPONSIBLE FOR SUBMITTING NOTICE OF CONSTRUCTION COMMENCEMENT AT THE PRE CONSTRUCTION MEETING, MONITORING DURING CONSTRUCTION, AND SUBMITTING AS-BUILT CERTIFICATIONS FOR THE PROJECT ONCE COMPLETED.
- IF DURING CONSTRUCTION OF THE DITCH SYSTEM, A STRUCTURAL FAILURE IS OBSERVED THAT HAS THE POTENTIAL TO CAUSE THE DIRECT DISCHARGE OF SURFACE WATER INTO THE FLORIDAN AQUIFER SYSTEM, THE SITE SUPERINTENDENT AND LEON COUNTY PUBLIC WORKS DEPARTMENT SHALL BE INFORMED IMMEDIATELY. THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND LEON COUNTY GROWTH & ENVIRONMENTAL COMPLIANCE DIVISION SHALL BE NOTIFIED WITHIN 48 HOURS AND CORRECTIVE ACTIONS DESIGNED OR APPROVED BY REGISTERED PROFESSIONALS WITH QUALIFICATIONS IN HYDROGEOLOGY AND ENGINEERING, SPECIFIC TO THE SITE AND TO THE FAILURE OBSERVED, SHALL BE TAKEN AS SOON AS PRACTICAL TO CORRECT THE FAILURE.
  - IMMEDIATE ACTION UPON THE DISCOVERY OF THE FAILURE SHALL INCLUDE (BUT NOT BE LIMITED TO):
  - CEASE CONSTRUCTION ACTIVITIES WITHIN 100 FEET OF THE FAILURE AREA;
  - ISOLATE, IDENTIFY AND SECURING THE FAILURE AREA WITH BARRIER FENCING AND/OR WARNING RIBBON (OR BY OTHER APPROPRIATE MEANS);
  - INITIATE WRITTEN AND PHOTOGRAPHIC DOCUMENTATION;
  - COMPLY WITH VERBAL INSTRUCTIONS FROM LEON COUNTY PUBLIC WORKS DEPARTMENT REPRESENTATIVE;
  - A REPORT WITH DETAILED SINKHOLE EVALUATION AND REPAIR PLAN PREPARED BY A PROFESSIONAL GEOLOGIST OR A PROFESSIONAL GEOTECHNICAL ENGINEER WITH QUALIFICATIONS IN HYDROGEOLOGY AND ENGINEERING MUST BE PROVIDED BY LEON COUNTY PUBLIC WORKS AS SOON AS PRACTICAL TO THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT FOR REVIEW AND APPROVAL. THE REPORT MUST DEMONSTRATE REASONABLE ASSURANCE THAT THE BREACH OR FAILURE WILL BE PERMANENTLY CORRECTED IN COMPLIANCE WITH THE PERMIT.
- CONTRACTOR SHALL NOT ADVERSELY IMPACT WETLANDS. CONTRACTOR WILL STAKE THE LIMITS OF CONSTRUCTION LINE SUPPLIED BY ATKINS, AND NO WORK SHALL BE CONDUCTED OUTSIDE OF THE LIMITS OF CONSTRUCTION. NO ACTIVITY SHALL OCCUR IN WETLANDS OUTSIDE OF THE LIMITS OF CONSTRUCTION, EXCEPT REMOVAL OF INVASIVE AND EXOTIC SPECIES AND INSTALLATION OF WETLAND PLANTS AS DIRECTED BY THE LANDSCAPE ARCHITECT. NO MATERIALS OR EQUIPMENT SHALL BE STORED IN WETLANDS OR ADJACENT TO WETLANDS.

## SHEET INDEX

DESCRIPTION	SHEET NO.
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NOTE:  
 EXTREME CAUTION ! - UNDERGROUND ELECTRIC AND UNDERGROUND GAS PRESENT IN CONSTRUCTION AREAS. CONTRACTOR MUST USE EXTREME CAUTION DURING ANY EXCAVATIONS OR DIGGING, AND REFER TO GENERAL NOTE #7.

**TREE TABLE:**  
 288 TREES TO BE REMOVED, SIZES VARY 12"-22"±.  
 ASSUMING 10 DEBITS PER TREE, WOULD REQUIRE 2,880 DEBITS NEEDED.  
 1,965 TREES WILL BE PRESERVED, SIZES VARY 12"-22"±.  
 ASSUMING 6 CREDITS PER TREE, WOULD PROVIDE 11,790 CREDITS PROVIDED.

THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.

APPLICANT'S COPY

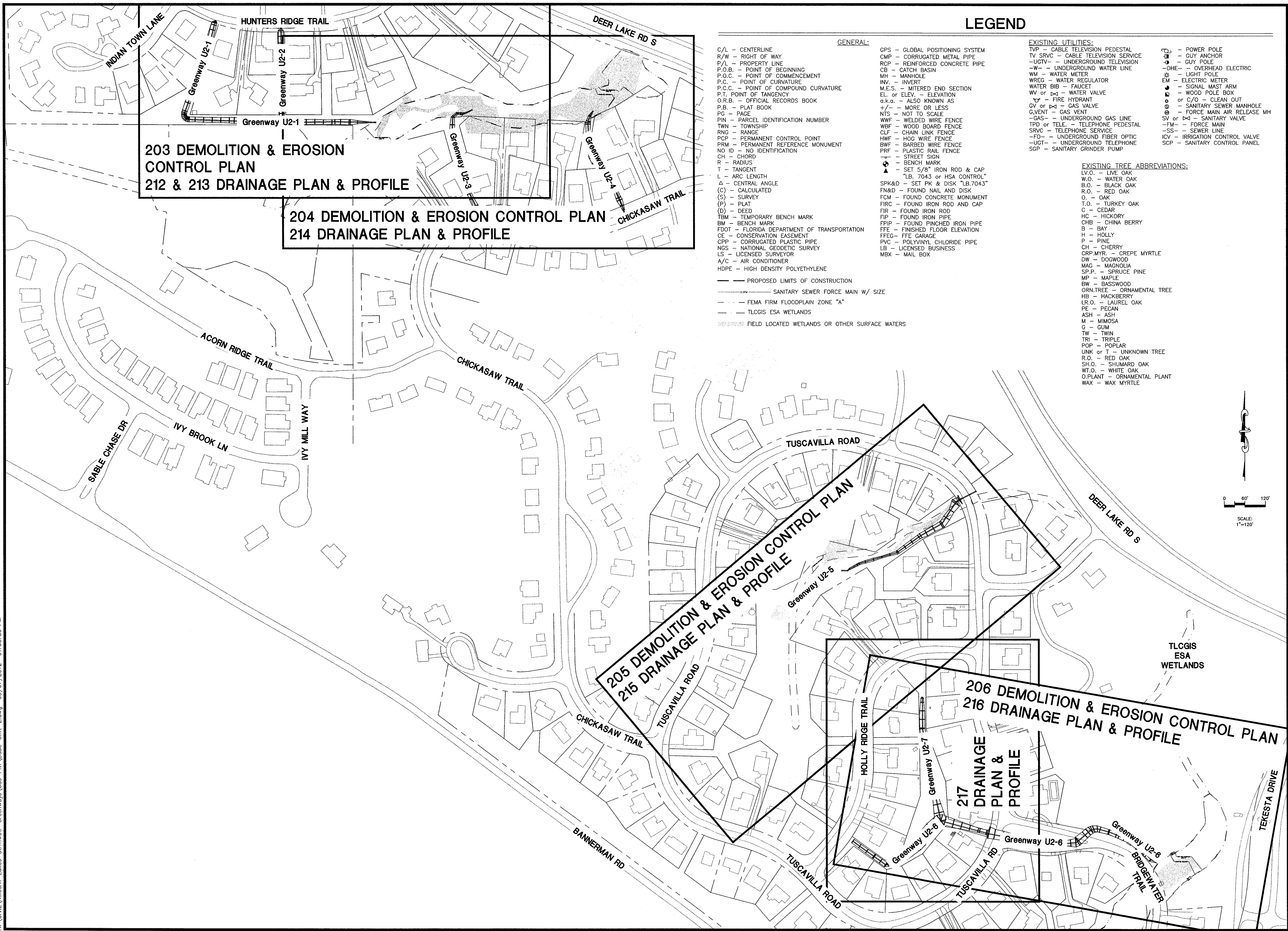
SURVEYOR OF RECORD:  
 John M. Pulice, PSM  
 HSA Consulting Group, Inc.  
 1648 Metropolitan Circle, Suite A  
 Tallahassee FL, 32308  
 Phone: 850.309.7510

EXHIBIT A

ENGINEER OF RECORD:  
 ATKINS  
 WILLIAM K. JOHNSON  
 P.E. NO. 41040

APPROVED: *John M. Pulice*  
 PERMIT # *LE12-00069*  
 DATE *10/19/12*  
 Special Conditions Exist For This Permit. Refer to Exhibit(s):  
 See Attachment A

AMP



**203 DEMOLITION & EROSION CONTROL PLAN**  
**212 & 213 DRAINAGE PLAN & PROFILE**

**204 DEMOLITION & EROSION CONTROL PLAN**  
**214 DRAINAGE PLAN & PROFILE**

**205 DEMOLITION & EROSION CONTROL PLAN**  
**215 DRAINAGE PLAN & PROFILE**

**206 DEMOLITION & EROSION CONTROL PLAN**  
**216 DRAINAGE PLAN & PROFILE**

**217 DRAINAGE PLAN & PROFILE**

**LEGEND**

- GENERAL:**
- C/L - CENTERLINE
  - R/W - RIGHT OF WAY
  - P/L - PROPERTY LINE
  - P.O.B. - POINT OF BEGINNING
  - P.O.C. - POINT OF COMMENCEMENT
  - P.C. - POINT OF CURVATURE
  - P.C.C. - POINT OF COMPOUND CURVATURE
  - P.T. - POINT OF TANGENCY
  - O.R.B. - OFFICIAL RECORDS BOOK
  - P.B. - PLAT BOOK
  - PG - PAGE
  - PIN - PARCEL IDENTIFICATION NUMBER
  - TWN - TOWNSHIP
  - RNG - RANGE
  - POP - PERMANENT CONTROL POINT
  - PRM - PERMANENT REFERENCE MONUMENT
  - NO ID - NO IDENTIFICATION
  - CH - CHORD
  - R - RADIUS
  - T - TANGENT
  - L - ARC LENGTH
  - Δ - CENTRAL ANGLE
  - (C) - CALCULATED
  - (S) - SURVEY
  - (P) - PLAT
  - (D) - DEED
  - TBM - TEMPORARY BENCH MARK
  - BM - BENCH MARK
  - FDOT - FLORIDA DEPARTMENT OF TRANSPORTATION
  - CE - CONSERVATION EASEMENT
  - CPP - CORRUGATED PLASTIC PIPE
  - NGS - NATIONAL GEODETIC SURVEY
  - LS - LICENSED SURVEYOR
  - A/C - AIR CONDITIONER
  - HDPE - HIGH DENSITY POLYETHYLENE
- EXISTING UTILITIES:**
- TVP - CABLE TELEVISION PEDESTAL
  - TV SRVC - CABLE TELEVISION SERVICE
  - UGTV - UNDERGROUND TELEVISION
  - W - UNDERGROUND WATER LINE
  - WM - WATER METER
  - INV - INVERT
  - M.E.S. - MITERED END SECTION
  - EL or ELEV. - ELEVATION
  - a.k.a. - ALSO KNOWN AS
  - +/- - MORE OR LESS
  - NTS - NOT TO SCALE
  - WFW - WELDED WIRE FENCE
  - WBF - WOOD BOARD FENCE
  - CLF - CHAIN LINK FENCE
  - HWF - HOG WIRE FENCE
  - BWF - BARBED WIRE FENCE
  - PRF - PLASTIC RAIL FENCE
  - ST - STREET SIGN
  - BM - BENCH MARK
  - SET 5/8" IRON ROD & CAP
  - "LB. 7043 or HSA CONTROL"
  - SET PK & DISK "LB.7043"
  - FN&D - FOUND NAIL AND DISK
  - FCM - FOUND CONCRETE MONUMENT
  - FIRC - FOUND IRON ROD AND CAP
  - FIR - FOUND IRON ROD
  - FIP - FOUND IRON PIPE
  - FFIP - FOUND PINCHED IRON PIPE
  - FFE - FINISHED FLOOR ELEVATION
  - FFEG - FFE GARAGE
  - PVC - POLYVINYL CHLORIDE PIPE
  - LB - LICENSED BUSINESS
  - MBX - MAIL BOX
- EXISTING TREE ABBREVIATIONS:**
- L.V.O. - LIVE OAK
  - W.O. - WATER OAK
  - B.O. - BLACK OAK
  - R.O. - RED OAK
  - O. - OAK
  - T.O. - TURKEY OAK
  - C. - CEDAR
  - HC - HICKORY
  - CHB - CHINA BERRY
  - B - BAY
  - H - HOLLY
  - P - PINE
  - CH - CHERRY
  - CRP-MYR. - CREPE MYRTLE
  - DW - DOGWOOD
  - MAG - MAGNOLIA
  - S.P.P. - SPRUCE PINE
  - MP - MAPLE
  - BW - BASSWOOD
  - ORN.TREE - ORNAMENTAL TREE
  - HB - HACKBERRY
  - L.R.O. - LAUREL OAK
  - PE - PECAN
  - ASH - ASH
  - M - MIMOSA
  - G - GUM
  - TW - TWIN
  - TRI - TRIPLE
  - POP - POPULAR
  - UNK or T - UNKNOWN TREE
  - R.O. - RED OAK
  - SH.O. - SHUMARD OAK
  - WT.O. - WHITE OAK
  - O.PLANT - ORNAMENTAL PLANT
  - WAX - WAX MYRTLE
- EXISTING UTILITIES (continued):**
- POWER POLE
  - GUY ANCHOR
  - GUY POLE
  - OVERHEAD ELECTRIC
  - LIGHT POLE
  - ELECTRIC METER
  - SIGNAL MAST ARM
  - WOOD POLE BOX
  - C/O - CLEAN OUT
  - SANITARY SEWER MANHOLE
  - FORCE MAIN AIR RELEASE MH
  - SANITARY VALVE
  - FORCE MAIN
  - SEWER LINE
  - IRRIGATION CONTROL VALVE
  - SANITARY CONTROL PANEL
- GENERAL (continued):**
- PROPOSED LIMITS OF CONSTRUCTION
  - SANITARY SEWER FORCE MAIN W/ SIZE
  - FEMA FIRM FLOODPLAIN ZONE "A"
  - TLCGIS ESA WETLANDS
  - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS


JOB NO. 100014854  
 DRAWN MR  
 DESIGNED GCB  
 CHECKED WKJ  
 OC  
 SHEET 200

WILMA K. BRANSON  
 P.L.M. No. 40490  
 339-313-3333  
 NOT VALID FOR CONSTRUCTION  
 UNLESS SIGNED IN THIS BLOCK

ORIGINAL REVISIONS:  
 MAY 2012  
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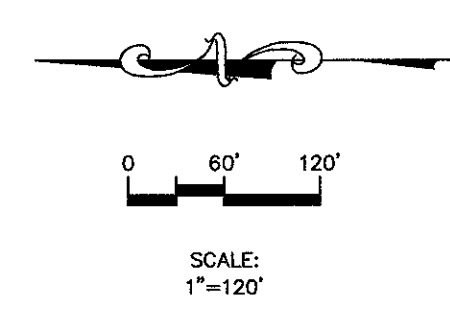
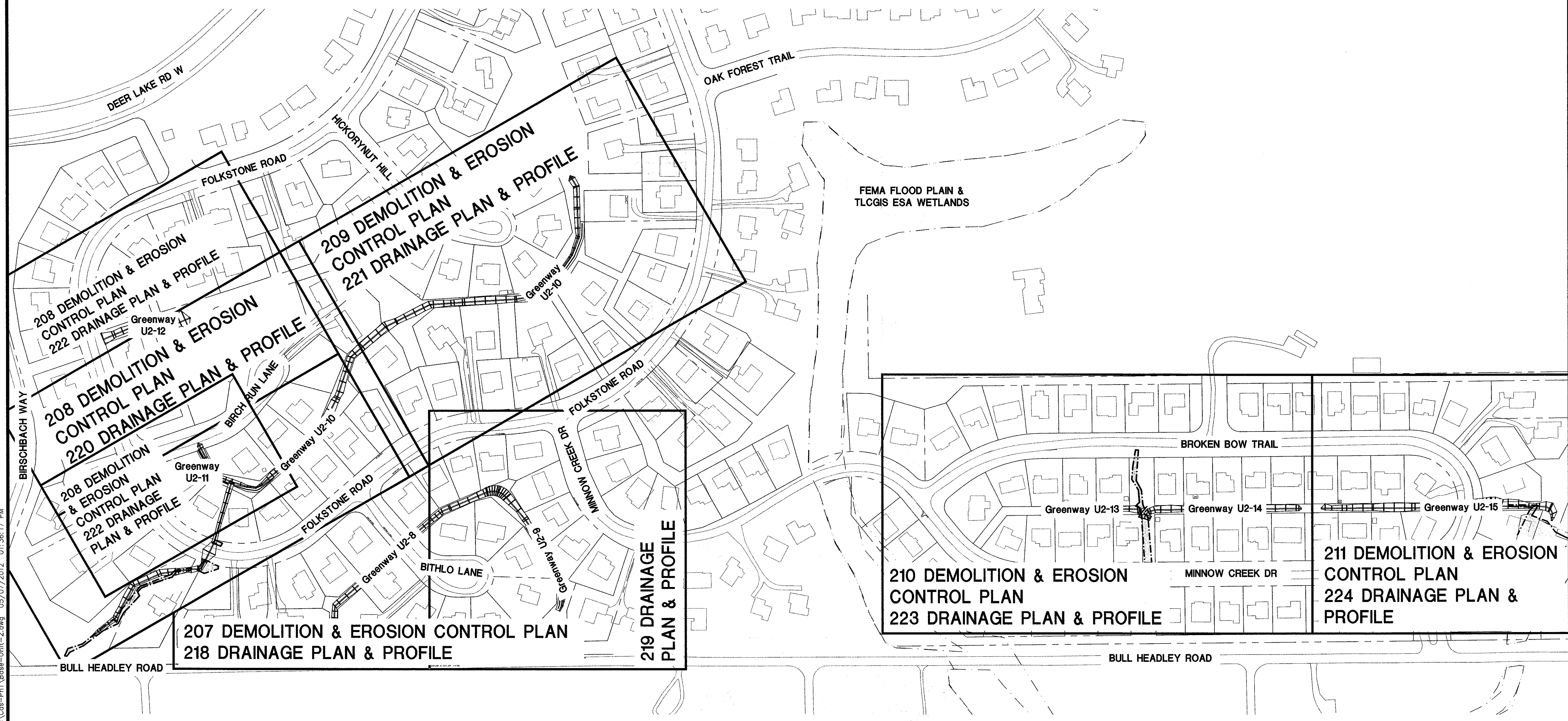
TASK  
**UNIT 2 SOUTH KEY MAP**

PROJECT  
**Killiearn Lakes Greenways Maintenance and Restoration Plans - Phase 1**

CLIENT  


**ATKINS**  
 2839 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1900  
 FBPR Certificate of Authorization No. 24

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JOB NO.	100014954
DRAWN	MR.
DESIGNED	GCB
CHECKED	WKJ
AC	OC

WILLIAM K. JOHNSON  
P.E. 00000000  
392 31319  
NOT VALID FOR EXISTING PROJECTS  
UNLESS SHOWN IN THIS BLOCK

ORIGINAL	MAY 2012
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TASK

**UNIT 2 NORTH  
KEY MAP**

PROJECT

**Killcarem Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**

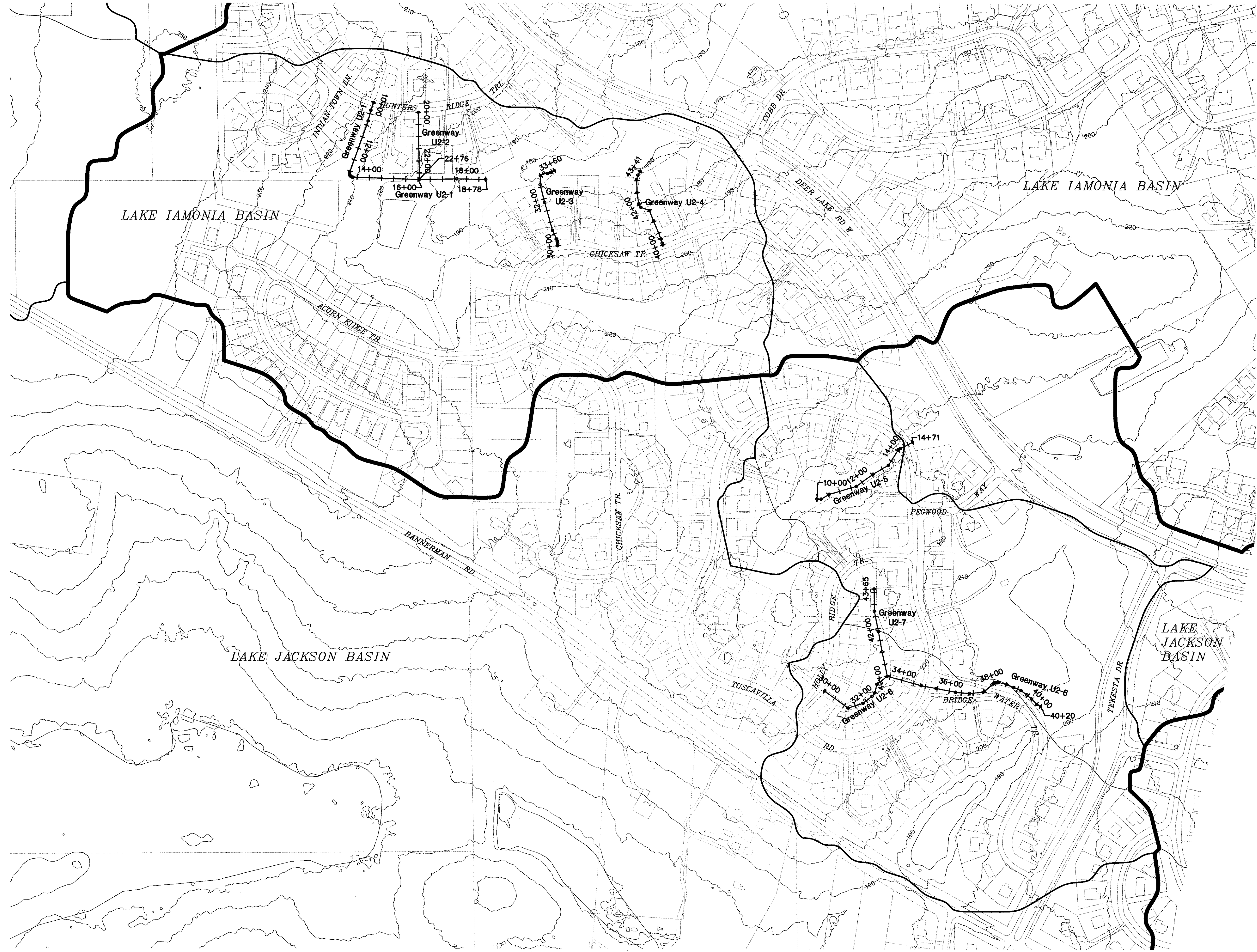


CLIENT

**ATKINS**

2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

SHEET 201



JOB NO.	100014954
MR.	
DESIGNED	GCB
CHECKED	WKJ
OC	

WILLIAM K. JOHNSON  
P.E. NO. 41040  
30, 31, 33, 34  
NOT VALID FOR ANY OTHER PROJECT  
UNLESS SPECIFICALLY NOTED

ORIGINAL	MAY 2012
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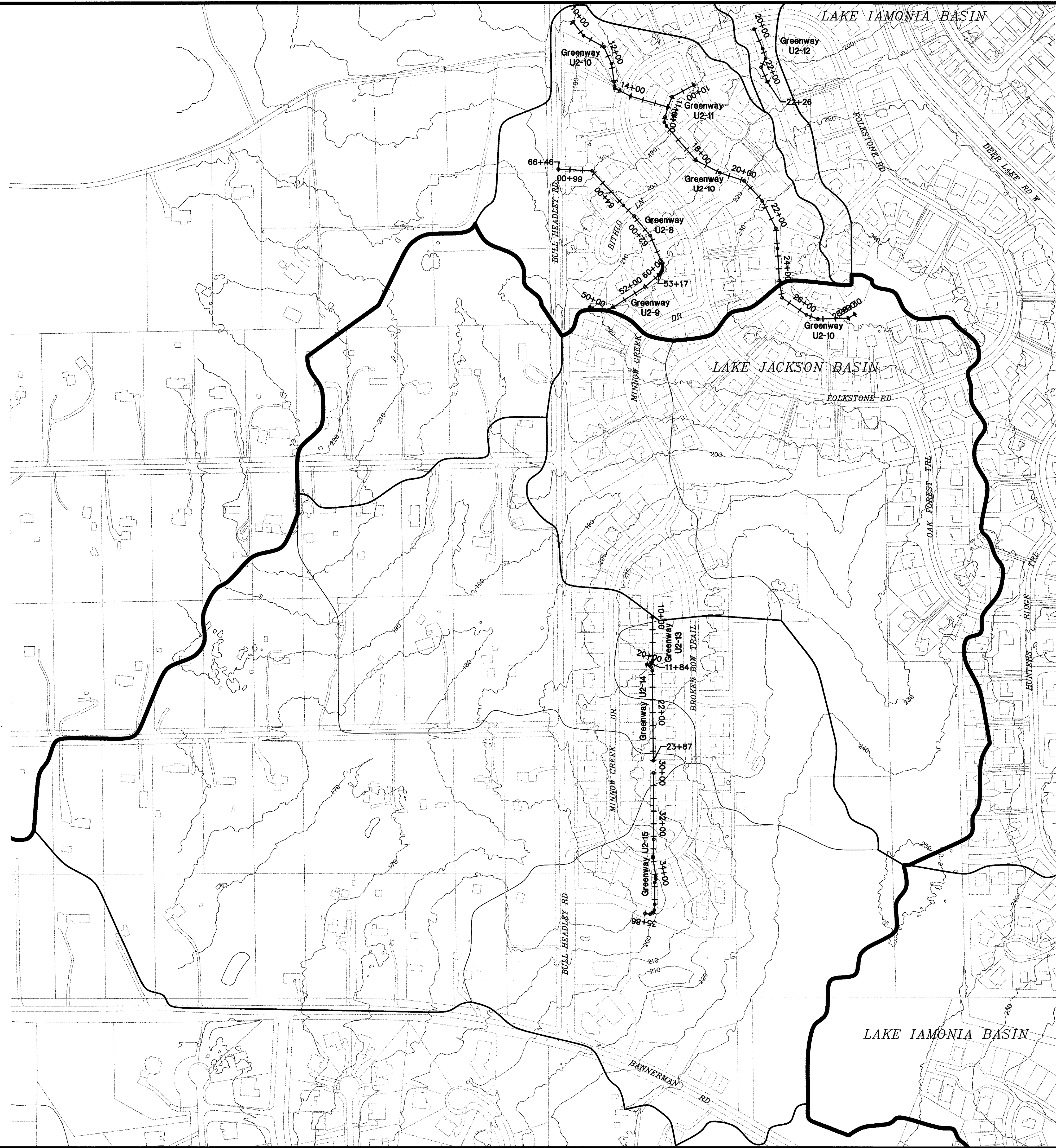
**UNIT 2 SOUTH  
BASIN MAP**

**Killcaren Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24



JOB NO.	100014954
DRAWN	MR
DESIGNED	GCB
CHECKED	WKJ
CC	

WILLIAM K. JOHNSON  
P.E. NO. 71040  
101.1133  
NOT VALID FOR ANY OTHER PROJECTS UNLESS SHOWN IN THIS BOOK

ORIGINAL	MAY 2012
REVISIONS:	
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**UNIT 2 NORTH  
BASIN MAP**

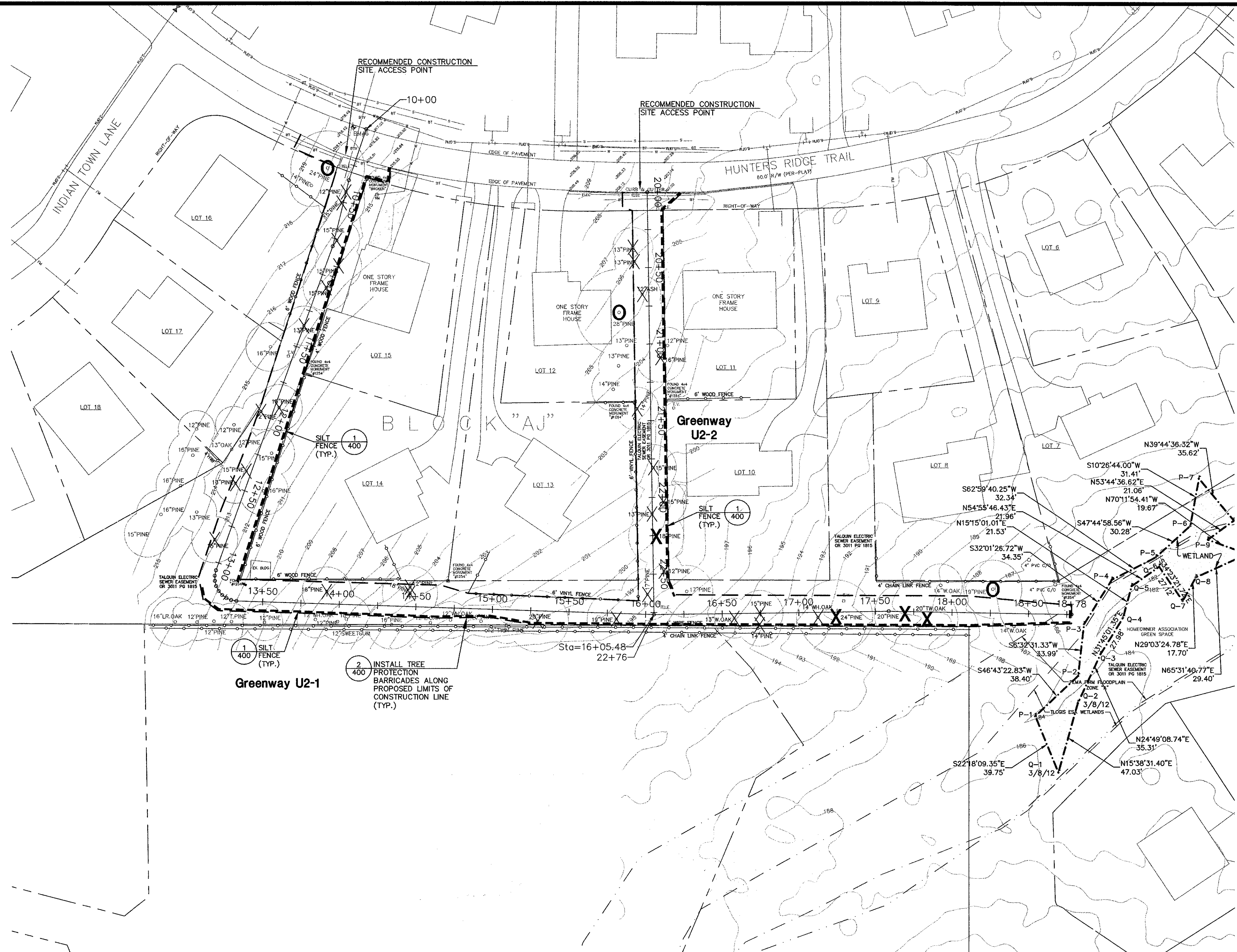
**PROJECT**  
Killarn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1



**CLIENT**

**ATKINS**  
2639 N. Monroe St. Building C  
Tampa, Florida 32603  
813.575.1900  
FPR Certificate of Authorization No. 24

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- CONSTRUCTION SEQUENCE:
1. PRIOR TO BEGINNING CONSTRUCTION SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE PERMIT AGENCIES, AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
  2. STAKEOUT LIMITS OF CONSTRUCTION LINE. (20' WIDE MIN.-AS SHOWN) WHERE THERE ARE TREES, INSTALL TREE PROTECTION BARRICADES ALONG LIMITS OF CONSTRUCTION LINE. DO NOT DISTURB ANY AREAS OUTSIDE OF LIMITS OF CONSTRUCTION.
  3. LOCATE ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
  4. INSTALL SILT FENCE AS SHOWN. ADDITIONAL SILT FENCES MAY BE ADDED AS REQUESTED BY THE ENVIRONMENTAL INSPECTOR.
  5. INSTALL HAY BALES EVERY 100' DOWNSTREAM OF CONSTRUCTION ACTIVITY AS SHOWN. MAINTAIN AND REPAIR SILT FENCES UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND STABILIZED.
  6. THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.
  7. NO OFF-SITE ADVERSE IMPACTS FROM CONSTRUCTION EQUIPMENT ENTERING AND LEAVING THE SITE IS ALLOWED. CONTRACTOR SHALL INSTALL SOIL TRACKING PREVENTION DEVICES PER FDOT INDEX 106 TO THE EXTENT THAT IT IS PRACTICAL. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO ANY ROADS SHALL BE REMOVED DAILY.
  8. CLEAR AND GRUB SITE, REMOVE TREES, AND DEMOLISH OR RELOCATE FENCES, ETC. AS SHOWN.
  9. INSTALL SWALES AND STORMWATER PIPES AS SHOWN.
  10. LANDSCAPE AND SOO ALL DISTURBED AREAS AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
  11. FLUSH ALL STORMWATER PIPES.
  12. REMOVE EROSION CONTROLS AND TREE PROTECTION BARRICADES.
  13. SUBMIT AS-BUILT DRAWINGS TO ENGINEER TO PREPARE A COMPLIANCE REPORT.
  14. REQUEST A FINAL INSPECTION FROM ALL APPLICABLE PERMIT AGENCIES.

- LEGEND**
- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - - - TLGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
  - PROPOSED IMPACTS TO WETLANDS OR OTHER SURFACE WATERS
  - M-L FIELD LOCATED WETLAND OR OTHER SURFACE WATERS FLAGS AND LINES
  - WETLAND NFWMD AND ACOE WETLAND UNLESS OTHERWISE NOTED
  - X EXISTING 12"-17" TREES TO BE REMOVED. (TYP.)
  - X EXISTING 18" OR LARGER TREES TO BE REMOVED. (TYP.)
  - O EXISTING 18" OR LARGER TREE TO BE IMPACTED. (60% OF CPZ ENCROACHMENT)
- NOTE:  
EXTREME CAUTION I - UNDERGROUND ELECTRIC AND UNDERGROUND GAS PRESENT IN CONSTRUCTION AREAS. CONTRACTOR MUST USE EXTREME CAUTION DURING ANY EXCAVATIONS OR DIGGING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND PROVIDE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL (1-800-432-4770), 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

JOB NO.	100014954
MR.	
DESIGNED	GCB
CHECKED	WKJ
OC	
SHEET 203	

WILLIAM K. JOHNSON  
P.E. NO. 41040  
3/13/12  
3/13/12  
3/13/12  
3/13/12  
3/13/12

ORIGINAL	JULY 2012
REVISIONS:	
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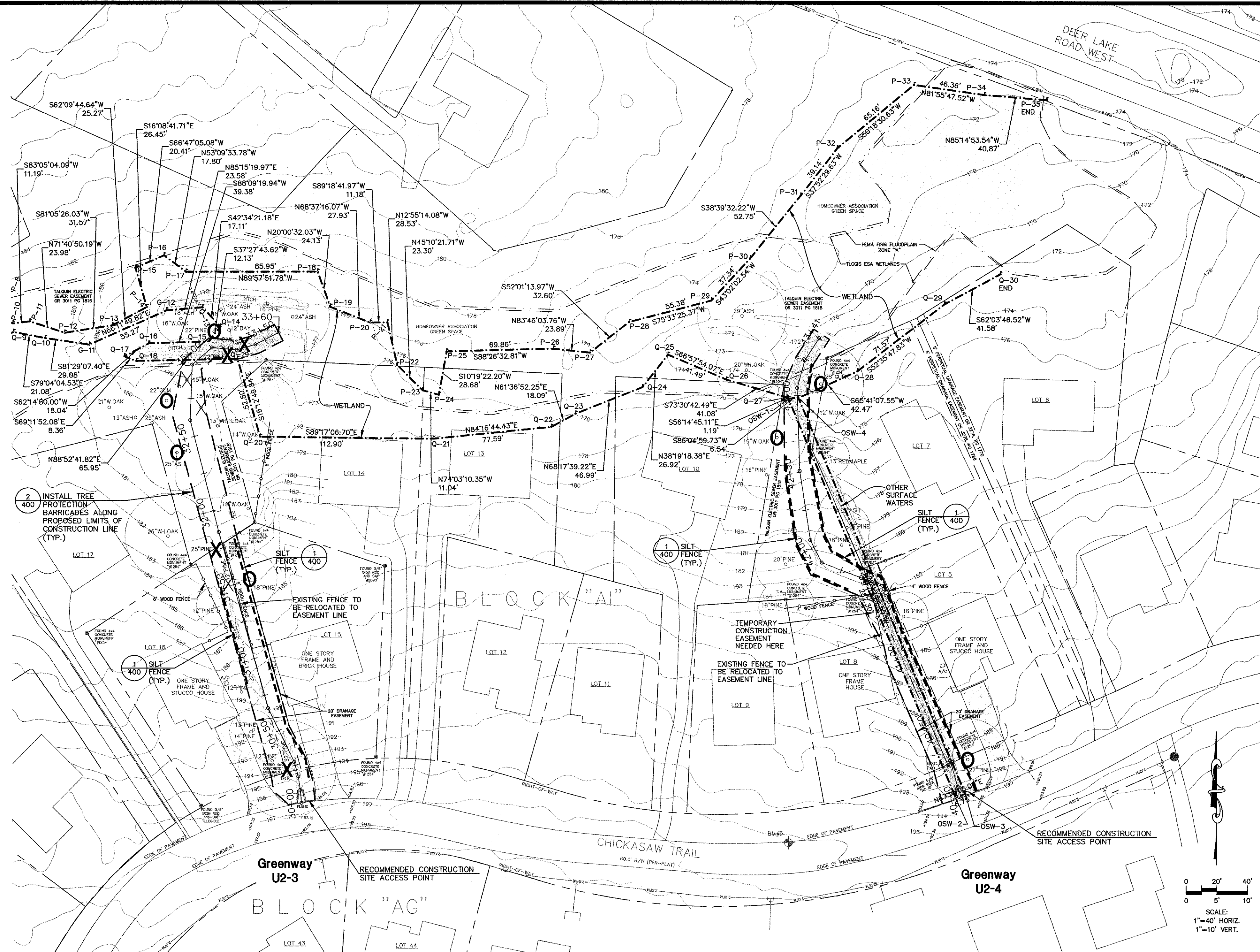
**Greenway U2-1 & U2-2 DEMOLITION AND EROSION CONTROL PLAN**

**Killearn Lakes Greenways Maintenance and Restoration Plans - Phase 1**



CLIENT

**ATKINS**  
2639 N. Monroe St., Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24



CONSTRUCTION SEQUENCE:

1. PRIOR TO BEGINNING CONSTRUCTION SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE PERMIT AGENCIES, AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
2. STAKEOUT LIMITS OF CONSTRUCTION LINE. (20' WDE MIN.-AS SHOWN) WHERE THERE ARE TREES, INSTALL TREE PROTECTION BARRICADES ALONG LIMITS OF CONSTRUCTION LINE. DO NOT DISTURB ANY AREAS OUTSIDE OF LIMITS OF CONSTRUCTION.
3. LOCATE ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
4. INSTALL SILT FENCE AS SHOWN. ADDITIONAL SILT FENCES MAY BE ADDED AS REQUESTED BY THE ENVIRONMENTAL INSPECTOR.
5. INSTALL HAY BALES EVERY 100' DOWNSTREAM OF CONSTRUCTION ACTIVITY AS SHOWN. MAINTAIN AND REPAIR SILT FENCES UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND STABILIZED.
6. THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.
7. NO OFF-SITE ADVERSE IMPACTS FROM CONSTRUCTION EQUIPMENT ENTERING AND LEAVING THE SITE IS ALLOWED. CONTRACTOR SHALL INSTALL SOIL TRACKING PREVENTION DEVICES PER FDOT INDEX 106 TO THE EXTENT THAT IT IS PRACTICAL. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO ANY ROADS SHALL BE REMOVED DAILY.
8. CLEAR AND GRUB SITE, REMOVE TREES, AND DEMOLISH OR RELOCATE FENCES, ETC. AS SHOWN.
9. INSTALL SWALES AND STORMWATER PIPES AS SHOWN.
10. LANDSCAPE AND SOD ALL DISTURBED AREAS AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
11. FLUSH ALL STORMWATER PIPES.
12. REMOVE EROSION CONTROLS AND TREE PROTECTION BARRICADES.
13. SUBMIT AS-BUILT DRAWINGS TO ENGINEER TO PREPARE A COMPLIANCE REPORT.
14. REQUEST A FINAL INSPECTION FROM ALL APPLICABLE PERMIT AGENCIES.

LEGEND

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - TLOGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
  - PROPOSED IMPACTS TO WETLANDS OR OTHER SURFACE WATERS
  - M-4 FIELD LOCATED WETLAND OR OTHER SURFACE WATERS FLAGS AND LINES
  - WETLAND NWFMD AND ACOE WETLAND UNLESS OTHERWISE NOTED
  - X EXISTING 12"-17" TREES TO BE REMOVED. (TYP.)
  - X EXISTING 18" OR LARGER TREES TO BE REMOVED. (TYP.)
  - O EXISTING 18" OR LARGER TREE TO BE IMPACTED. (60% OF CPZ ENCROACHMENT)

NOTE:  
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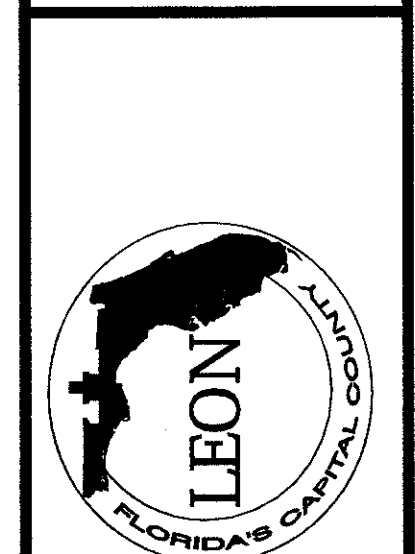
JOB NO.	100014954
DRAWN	MR
DESIGNED	GCB
CHECKED	WKJ
OC	
SHEET	204

WILLIAM K. JOHNSON  
P.E. NO. 41049  
3/13/12  
1/11/12  
1/11/12  
NOT VALID FOR CONSTRUCTION UNLESS SHOWN IN THIS BOOK

ORIGINAL	JULY 2012
REVISIONS:	
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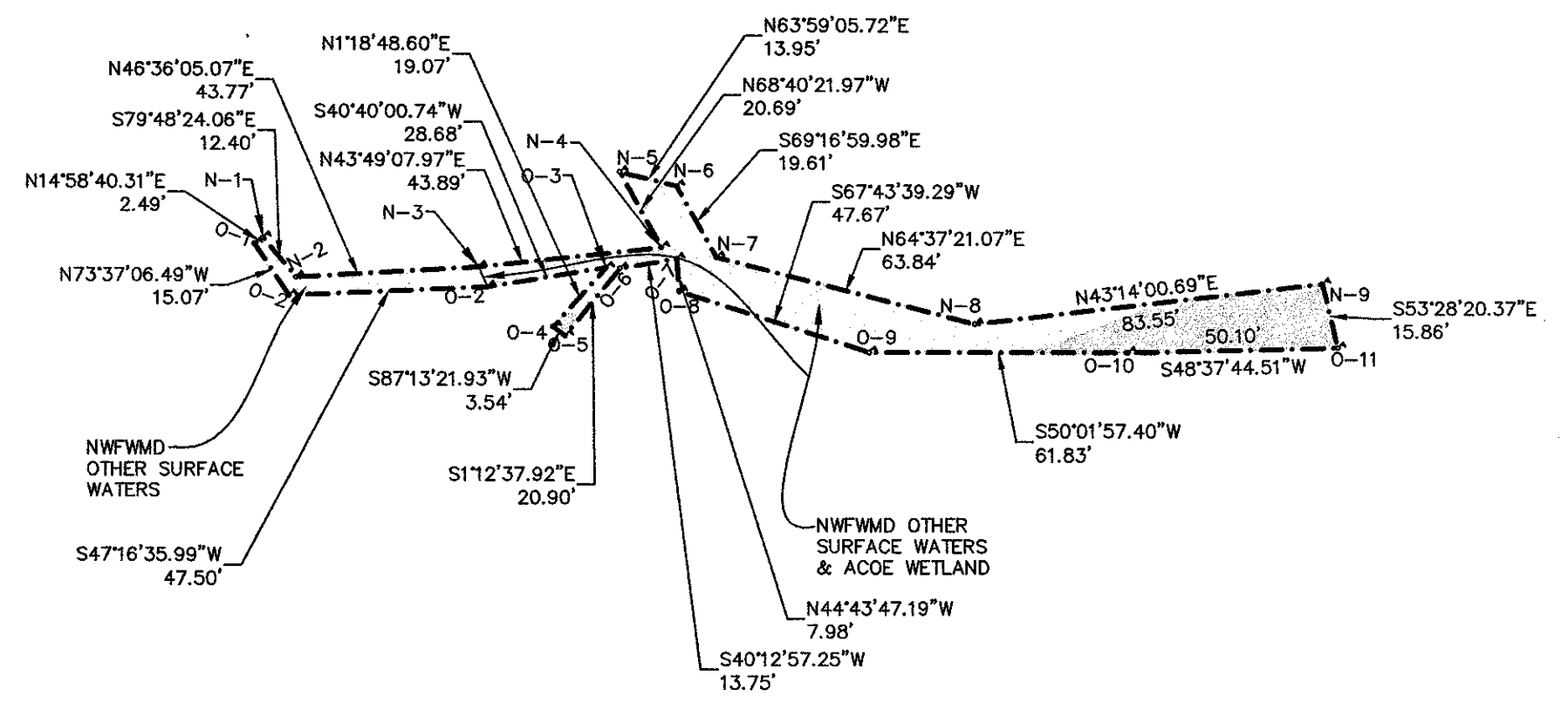
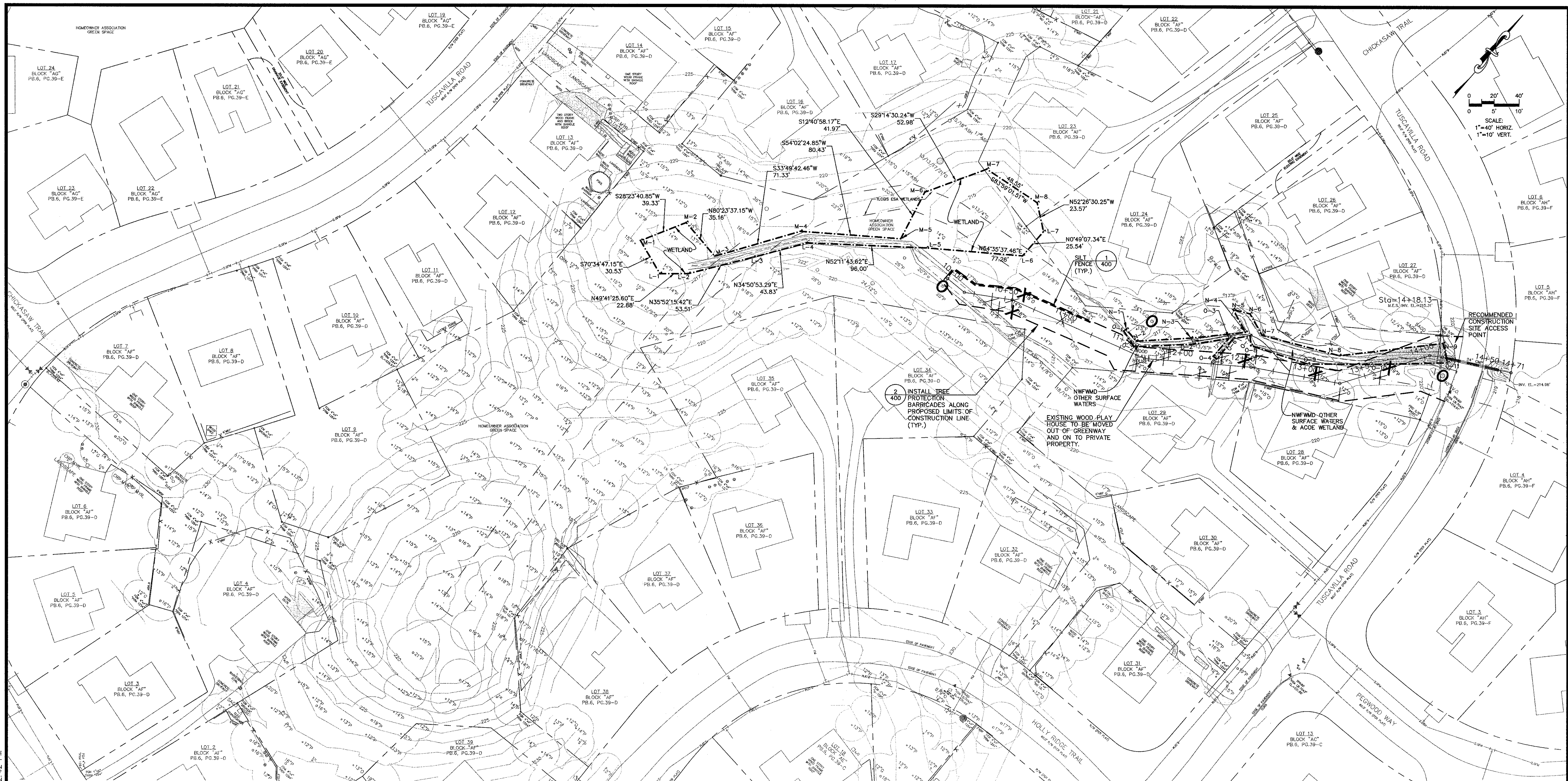
TASK  
Greenway U2-3  
& U2-4 DEMOLITION  
& EROSION  
AND CONTROL PLAN

PROJECT  
Killarn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1



CLIENT

**ATKINS**  
2609 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPP Certificate of Authorization No. 24



WETLAND / OTHER SURFACE WATERS DESCRIPTION FOR N-1 TO N-9 AND O-1 TO O-11

CONSTRUCTION SEQUENCE:

1. PRIOR TO BEGINNING CONSTRUCTION SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE PERMIT AGENCIES, AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
2. STAKEOUT LIMITS OF CONSTRUCTION LINE. (20' WIDE MIN.-AS SHOWN) WHERE THERE ARE TREES, INSTALL TREE PROTECTION BARRICADES ALONG LIMITS OF CONSTRUCTION LINE. DO NOT DISTURB ANY AREAS OUTSIDE OF LIMITS OF CONSTRUCTION.
3. LOCATE ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
4. INSTALL SILT FENCE AS SHOWN. ADDITIONAL SILT FENCES MAY BE ADDED AS REQUESTED BY THE ENVIRONMENTAL INSPECTOR.
5. INSTALL HAY BALES EVERY 100' DOWNSTREAM OF CONSTRUCTION ACTIVITY AS SHOWN. MAINTAIN AND REPAIR SILT FENCES UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND STABILIZED.
6. THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.
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14. REQUEST A FINAL INSPECTION FROM ALL APPLICABLE PERMIT AGENCIES.

LEGEND

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  - TLOGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
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JOB NO.	100014954
MR.	
DRAWN	GCB
DESIGNED	WKJ
CHECKED	CC
DATE	7/10/12
SHEET	205

WILLIAM K. JOHNSON  
P.E. NO. 17046  
7/10/12  
NOT VALID FOR USE IN THIS BLOCK

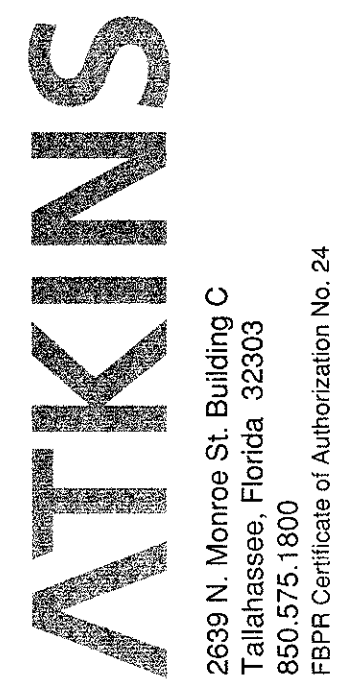
ORIGINAL	JULY 2012
REVISIONS:	
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TASK  
**Greenway U2-5  
DEMOLITION  
AND EROSION  
CONTROL PLAN**

PROJECT  
**Killeorn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**

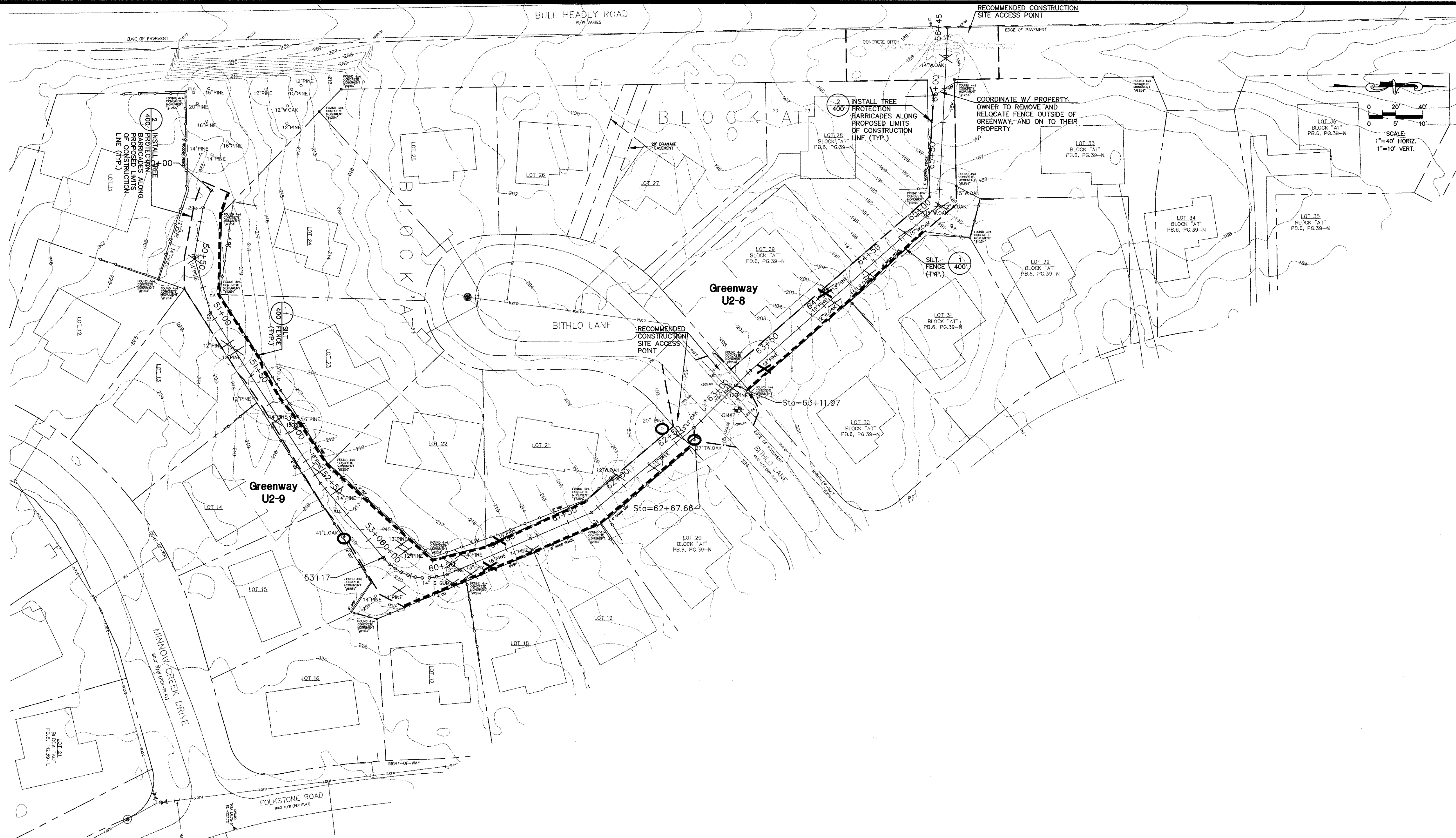


CLIENT









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  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
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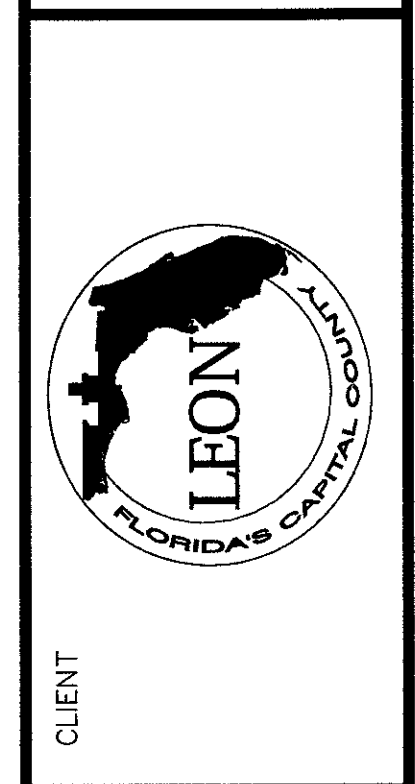
JOB NO.	100014954
DRWN	MIR
DESIGNED	GCB
CHECKED	WKJ
CC	

WILLIAM K. JOHNSON  
P.E. NO. 41040  
3/13/12  
NOT VALID FOR THE RECORD

ORIGINAL	JULY, 2012
REVISIONS:	
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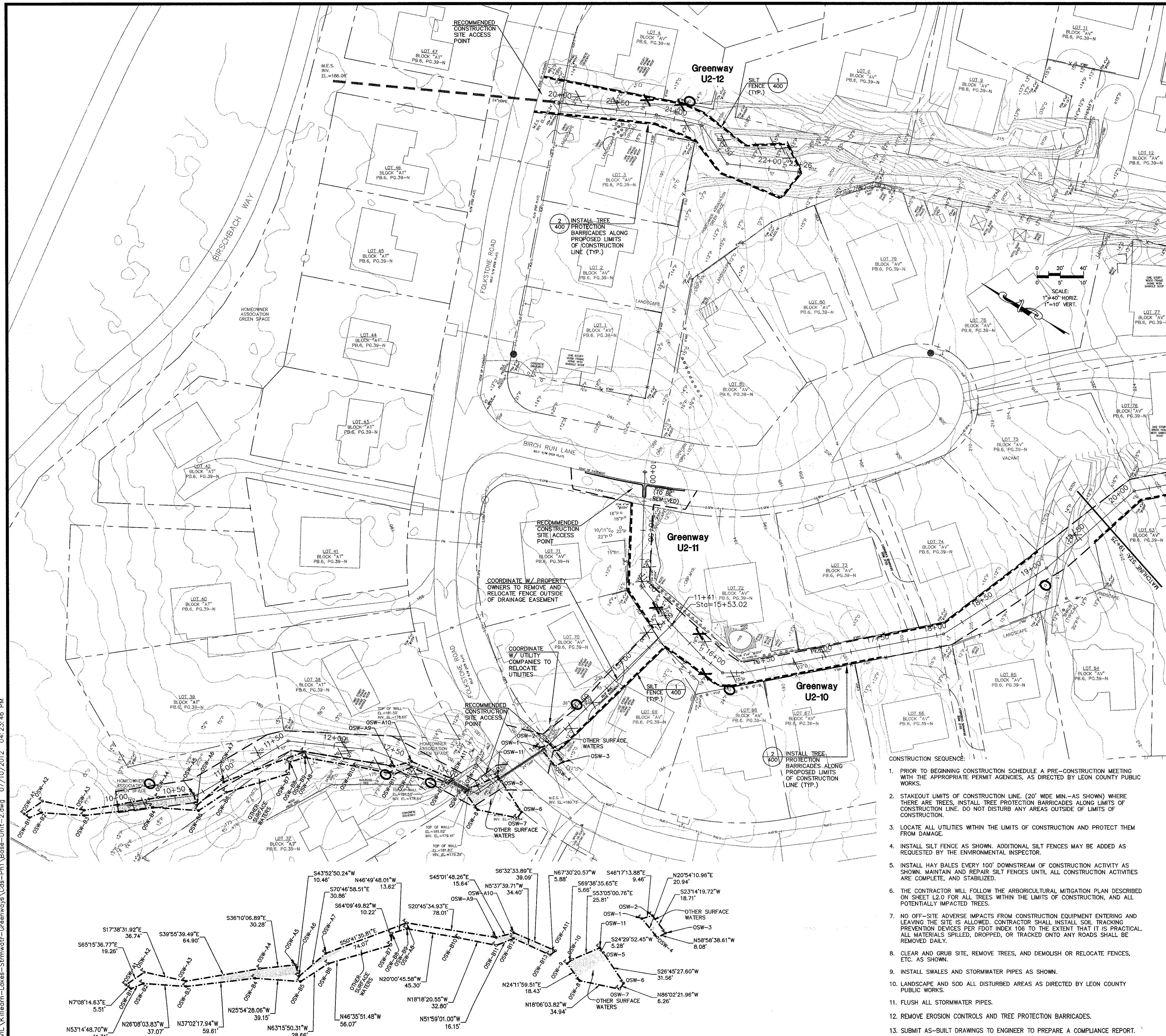
TASK  
**Greenway U2-8 & U2-9 DEMOLITION AND EROSION CONTROL PLAN**

PROJECT  
**Killlearn Lakes Greenways Maintenance and Restoration Plans - Phase 1**



CLIENT  
**ATKINS**  
2839 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

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### LEGEND

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - TLOGIS ESA WETLANDS
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  - ▨ PROPOSED IMPACTS TO WETLANDS OR OTHER SURFACE WATERS
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OTHER SURFACE WATERS DESCRIPTION  
FOR OSW-A1 TO OSW-A11, OSW-B1 TO OSW-B-13, AND OSW-1 TO OSW-11

JOB NO.	100014954
MR.	
DESIGNED	CCB
CHECKED	WKJ
CC	
SHEET	208

ORIGINAL REVISIONS:

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TASK  
Greenway U2-10,  
11, & 12 DEMOLITION  
AND EROSION  
CONTROL PLAN

PROJECT  
Killlearn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1

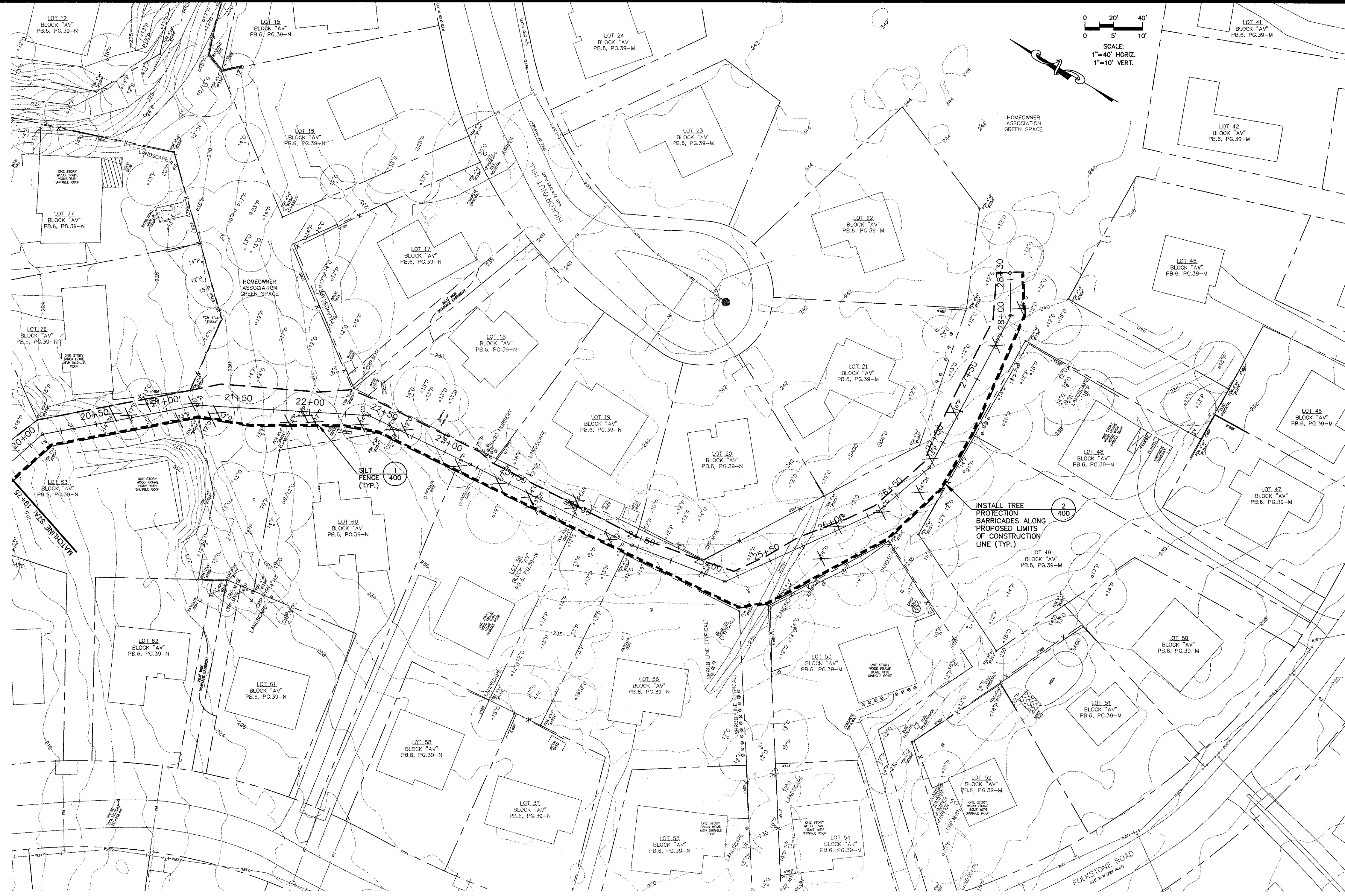
CLIENT  
**ATKINS**  
2839 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FAPR Certificate of Authorization No. 24



JULY, 2012

WILLIAM K. JOHNSON  
P.E. NO. 41040  
3-9-31313  
NOT VALID FOR CONSTRUCTION UNLESS SIGNED BY THIS BLOCK

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**CONSTRUCTION SEQUENCE:**

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**LEGEND**

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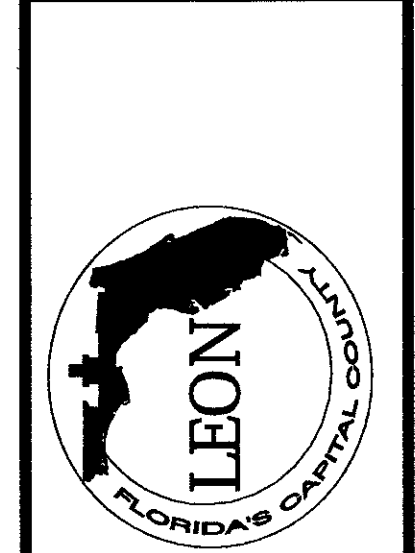
JOB NO.	100014954
DRAWN	MR.
DESIGNED	GCB
CHECKED	WKJ
OC	

WILLIAM K. JOHNSON  
P.E. NO. 41040  
10/13/2012  
10/13/2012  
10/13/2012  
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10/13/2012  
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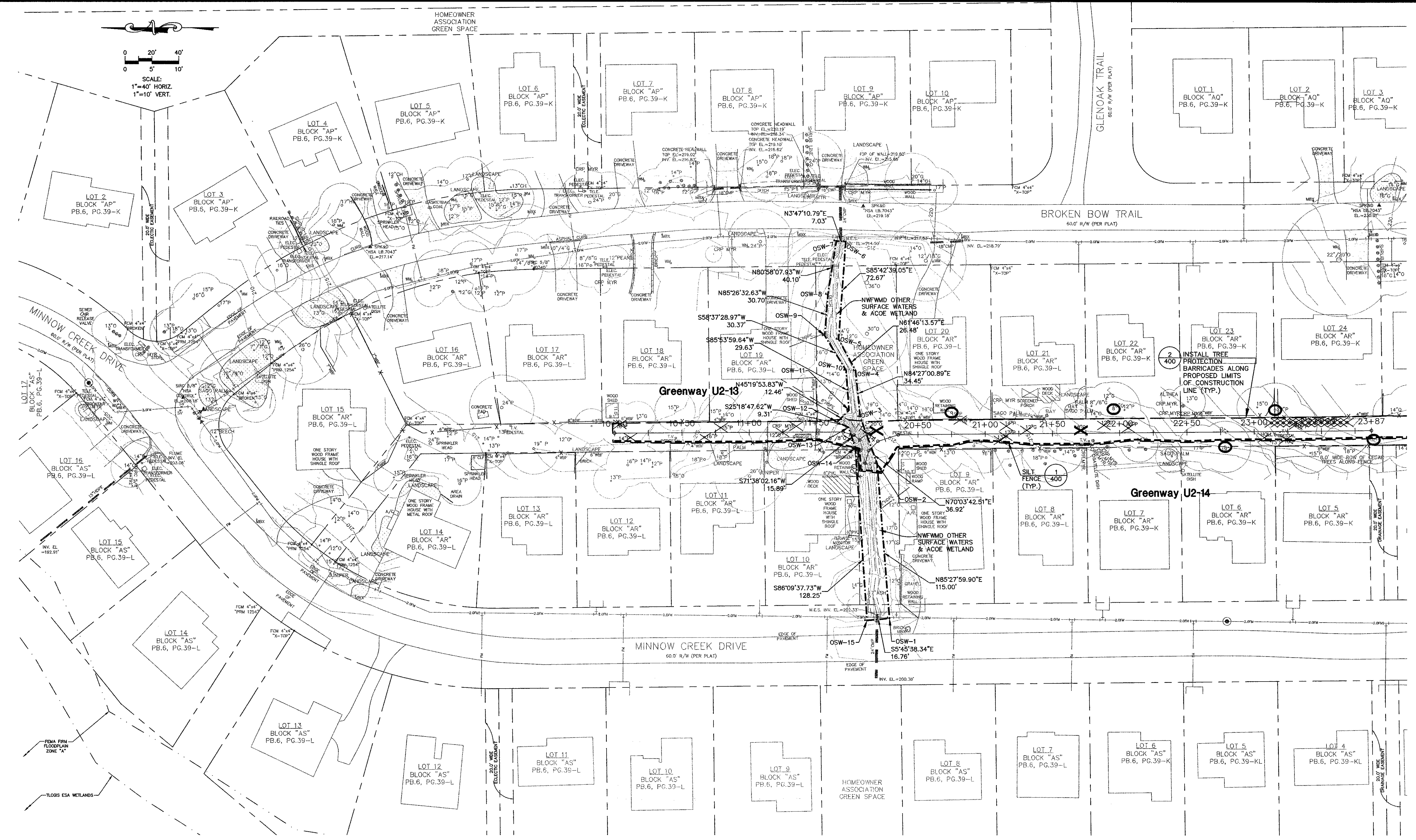
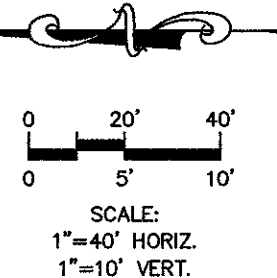
TASK  
**Greenway U2-10  
DEMOLITION  
AND EROSION  
CONTROL PLAN**

PROJECT  
**Killam Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24



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JOB NO. 100014954	MR.	SHEET 210
DRAWN	DESIGNED	GCB
CHECKED	WKJ	
CC		

WILLIAM K. JOHNSON  
P.E. NO. 41000  
7/10/2012  
NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

ORIGINAL: JULY 2012

REVISIONS:	1	2	3	4	5

**Greenway U2-13 & U2-14 DEMOLITION AND EROSION CONTROL PLAN**

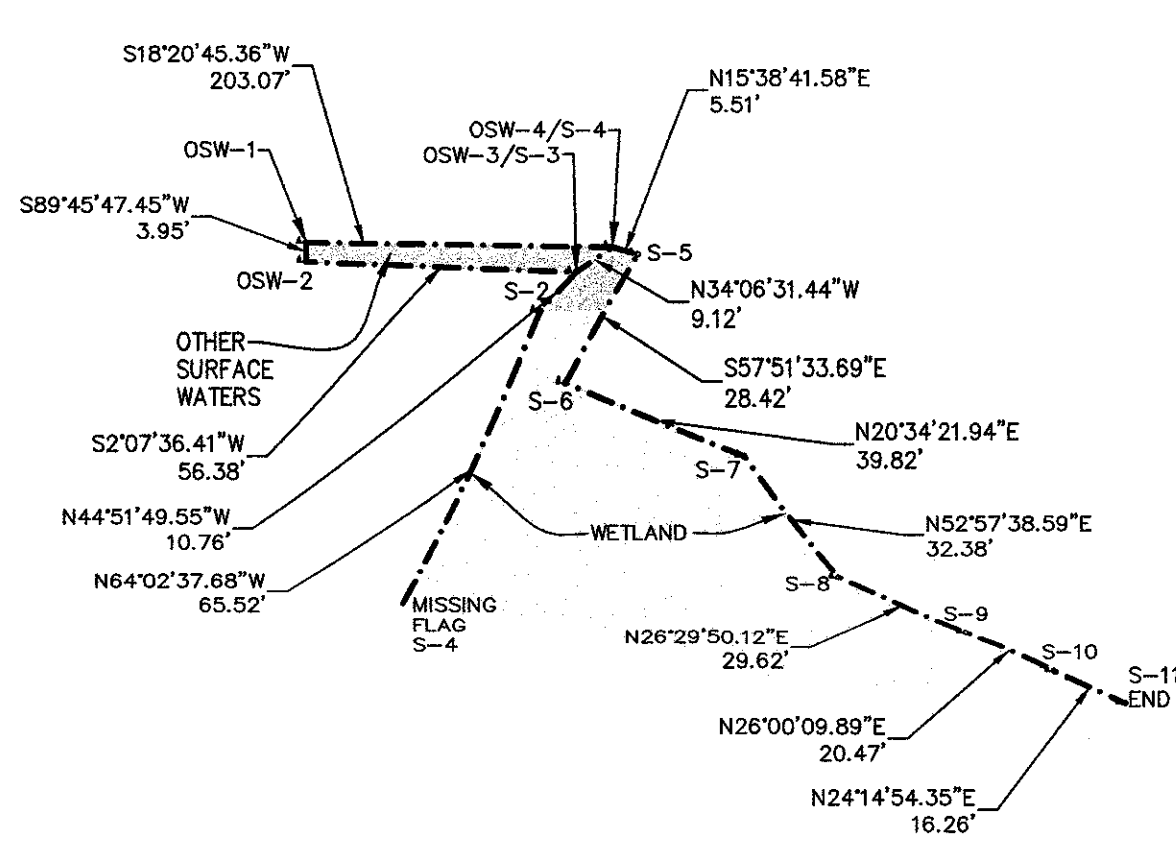
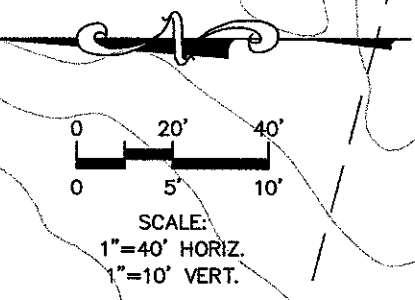
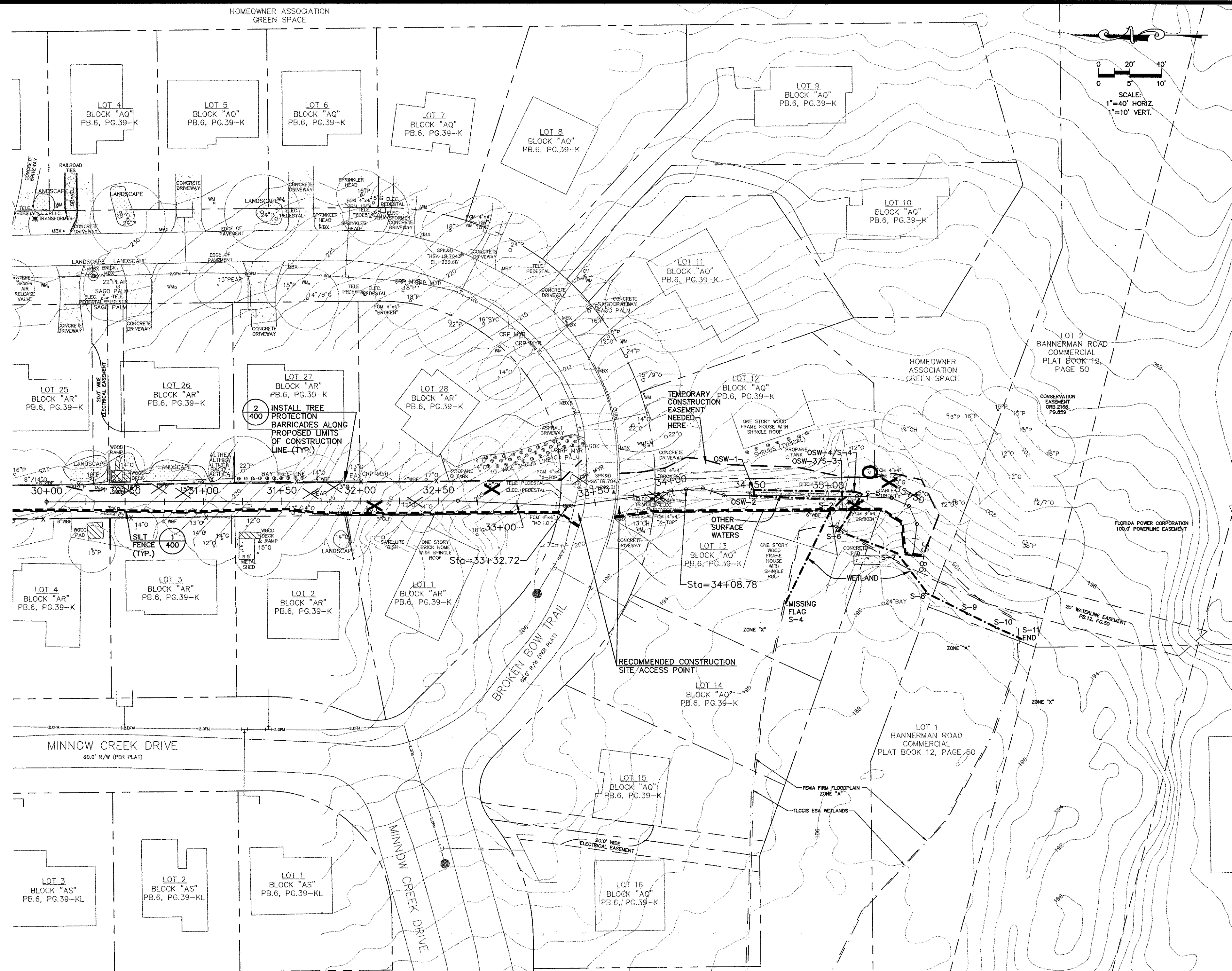
**Killam Lakes Greenways Maintenance and Restoration Plans - Phase 1**



CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

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OTHER SURFACE WATERS AND WETLANDS DESCRIPTION FOR OSW-1 TO OSW-4 AND S-4 TO S-11

CONSTRUCTION SEQUENCE:

1. PRIOR TO BEGINNING CONSTRUCTION SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE PERMIT AGENCIES, AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
2. STAKEOUT LIMITS OF CONSTRUCTION LINE. (20' WIDE MIN.-AS SHOWN) WHERE THERE ARE TREES, INSTALL TREE PROTECTION BARRICADES ALONG LIMITS OF CONSTRUCTION LINE. DO NOT DISTURB ANY AREAS OUTSIDE OF LIMITS OF CONSTRUCTION.
3. LOCATE ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
4. INSTALL SILT FENCE AS SHOWN. ADDITIONAL SILT FENCES MAY BE ADDED AS REQUESTED BY THE ENVIRONMENTAL INSPECTOR.
5. INSTALL HAY BALES EVERY 100' DOWNSTREAM OF CONSTRUCTION ACTIVITY AS SHOWN. MAINTAIN AND REPAIR SILT FENCES UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND STABILIZED.
6. THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.
7. NO OFF-SITE ADVERSE IMPACTS FROM CONSTRUCTION EQUIPMENT ENTERING AND LEAVING THE SITE IS ALLOWED. CONTRACTOR SHALL INSTALL SOIL TRACKING PREVENTION DEVICES PER FOOT INDEX 106 TO THE EXTENT THAT IT IS PRACTICAL. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO ANY ROADS SHALL BE REMOVED DAILY.
8. CLEAR AND GRUB SITE, REMOVE TREES, AND DEMOLISH OR RELOCATE FENCES, ETC. AS SHOWN.
9. INSTALL SWALES AND STORMWATER PIPES AS SHOWN.
10. LANDSCAPE AND SOD ALL DISTURBED AREAS AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
11. FLUSH ALL STORMWATER PIPES.
12. REMOVE EROSION CONTROLS AND TREE PROTECTION BARRICADES.
13. SUBMIT AS-BUILT DRAWINGS TO ENGINEER TO PREPARE A COMPLIANCE REPORT.
14. REQUEST A FINAL INSPECTION FROM ALL APPLICABLE PERMIT AGENCIES.

LEGEND

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - TLOGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
  - PROPOSED IMPACTS TO WETLANDS OR OTHER SURFACE WATERS
  - M-4 FIELD LOCATED WETLAND OR OTHER SURFACE WATERS FLAGS AND LINES
  - WETLAND NWFMD AND ACOE WETLAND UNLESS OTHERWISE NOTED
  - X EXISTING 12"-17" TREES TO BE REMOVED. (TYP.)
  - X EXISTING 18" OR LARGER TREES TO BE REMOVED. (TYP.)
  - O EXISTING 18" OR LARGER TREE TO BE IMPACTED. (60% OF CPZ ENCROACHMENT)

NOTE:  
EXTREME CAUTION ! - UNDERGROUND ELECTRIC AND UNDERGROUND GAS PRESENT IN CONSTRUCTION AREAS. CONTRACTOR MUST USE EXTREME CAUTION DURING ANY EXCAVATIONS OR DIGGING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES AND PROVIDE FOR PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY SUNSHINE ONE CALL (1-800-432-4770), 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

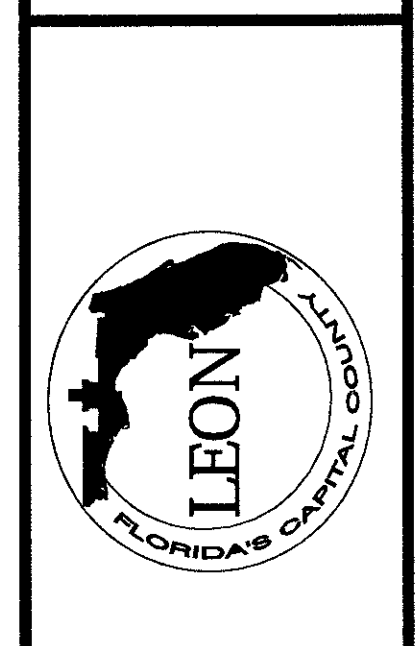
JOB NO.	100014954
DRAWN	MR
DESIGNED	GCB
CHECKED	WKJ
OC	

WILLIAM K. JOHNSON  
P.E. NO. 41940  
39,319 39  
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ORIGINAL	JULY 2012
REVISIONS:	
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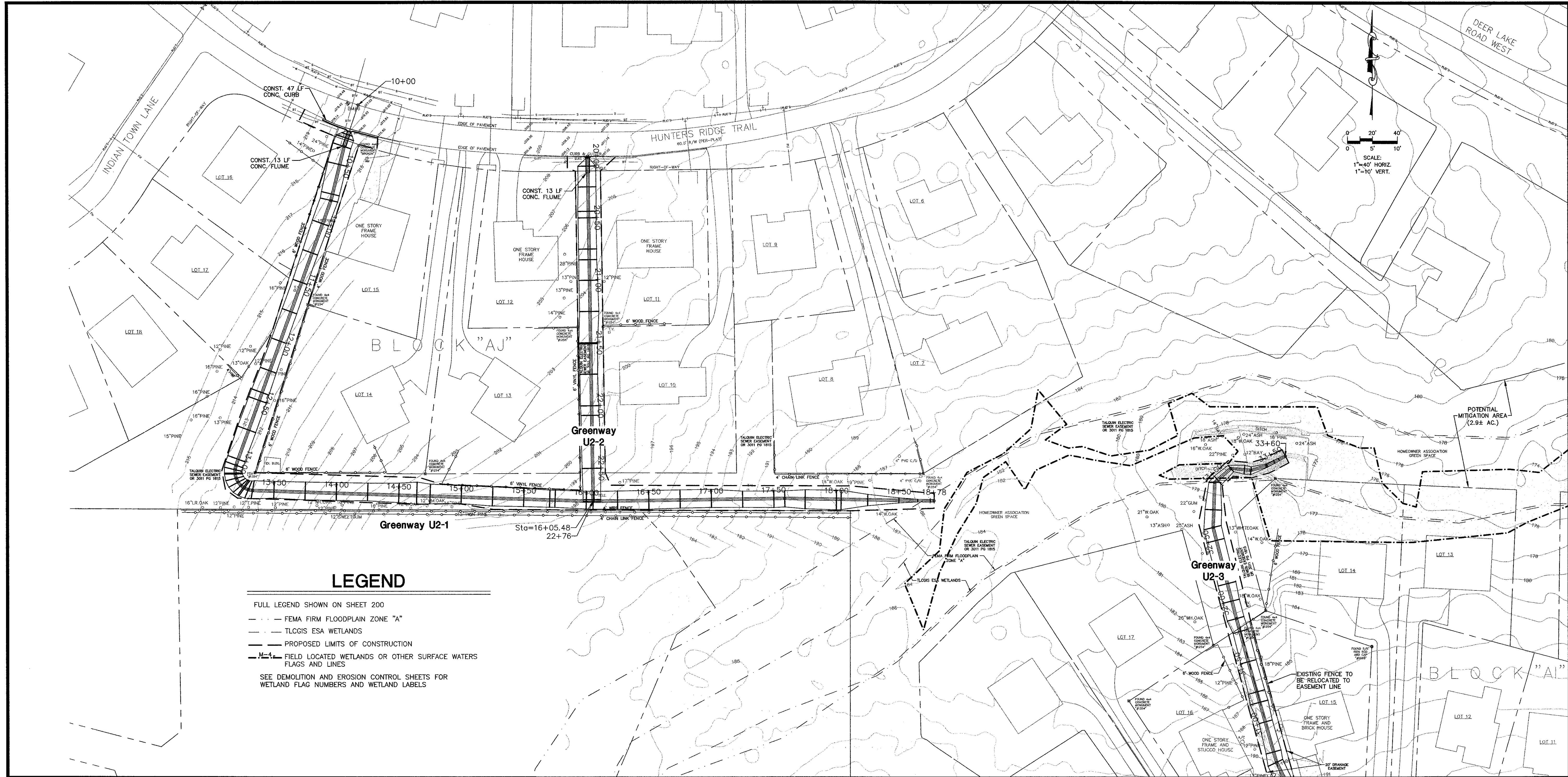
TASK  
**Greenway U2-15  
DEMOLITION  
AND EROSION  
CONTROL PLAN**

PROJECT  
**Killearn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



CLIENT  
**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

SHEET 211

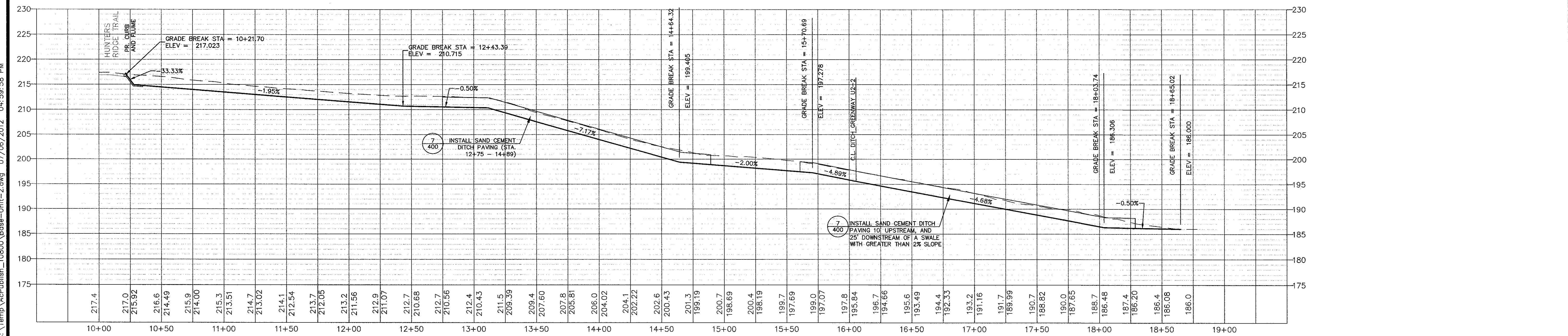


**LEGEND**

FULL LEGEND SHOWN ON SHEET 200

- FEMA FIRM FLOODPLAIN ZONE "A"
- TLGIS ESA WETLANDS
- PROPOSED LIMITS OF CONSTRUCTION
- FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



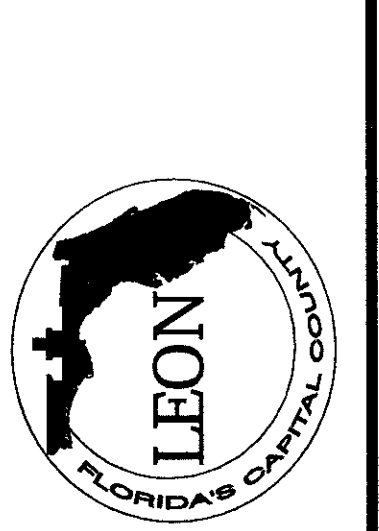
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 MR. GCB  
 WKJ  
 SHEET 212

WILLIAM K. JOHNSON  
 P.E. NO. 40940  
 JULY 2012

ORIGINAL: JULY 2012  
 REVISIONS:  
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TASK  
**Greenway U2-1  
 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killearn Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

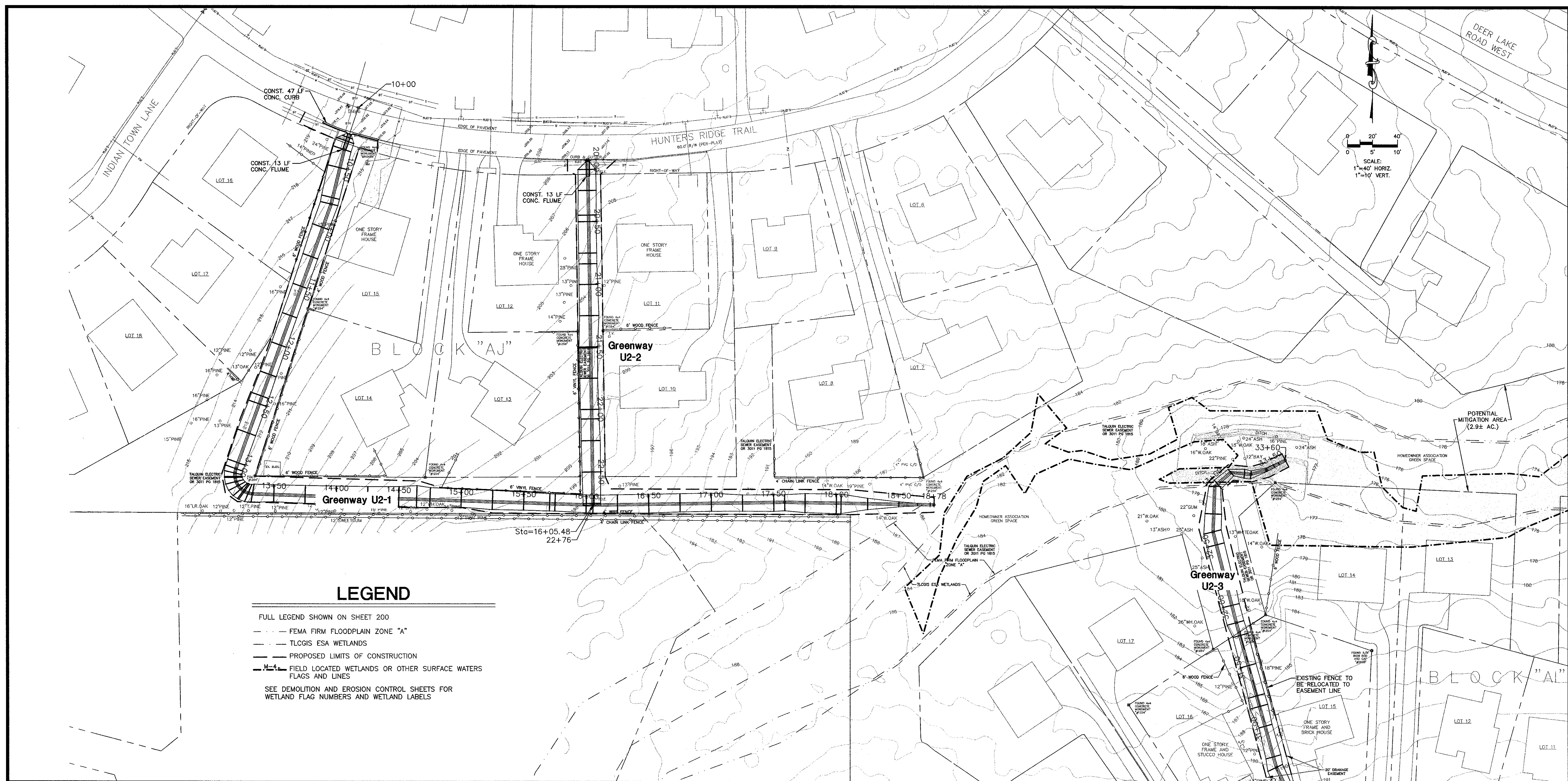


CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
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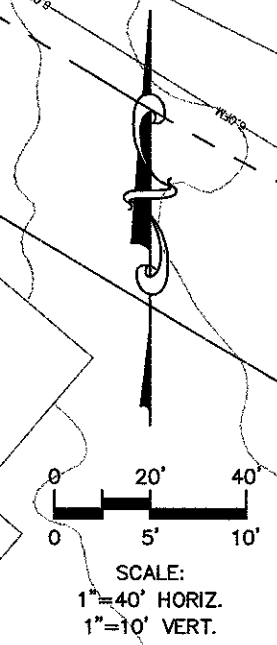
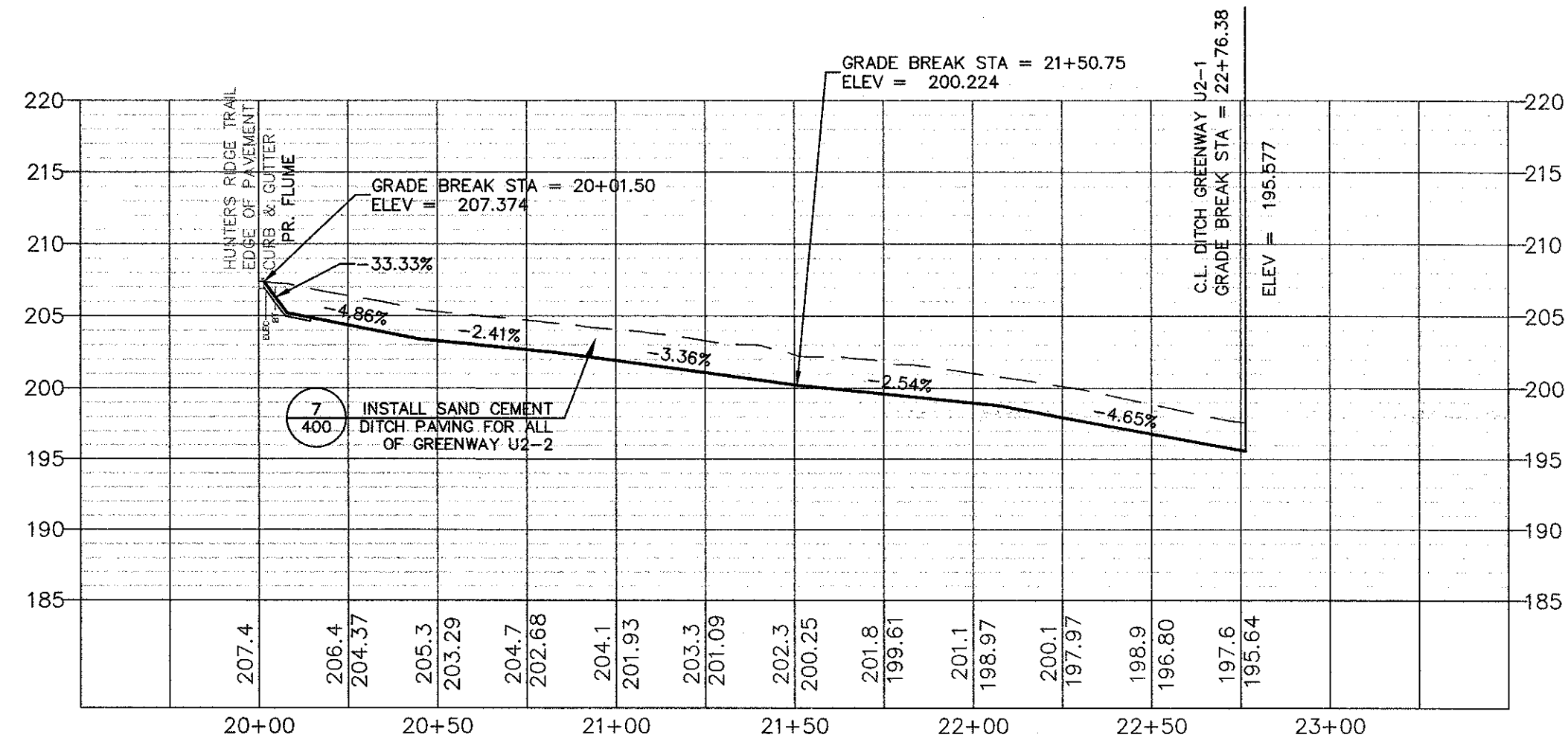


**LEGEND**

FULL LEGEND SHOWN ON SHEET 200

- FEMA FIRM FLOODPLAIN ZONE "A"
- TLOGIS ESA WETLANDS
- PROPOSED LIMITS OF CONSTRUCTION
- FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



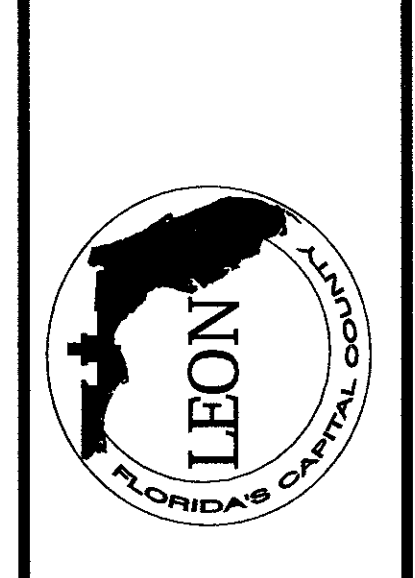
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 DRAWN MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 QC

WILLIAM K. JOHNSON  
 P.E. No. #1090  
 33, 319 1/2  
 11/11/12  
 NOT VALID FOR CONSTRUCTION UNLESS SIGNED IN THIS BLOCK

ORIGINAL: JULY 2012  
 REVISIONS:  
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TASK  
**Greenway U2-2  
 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killarney Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

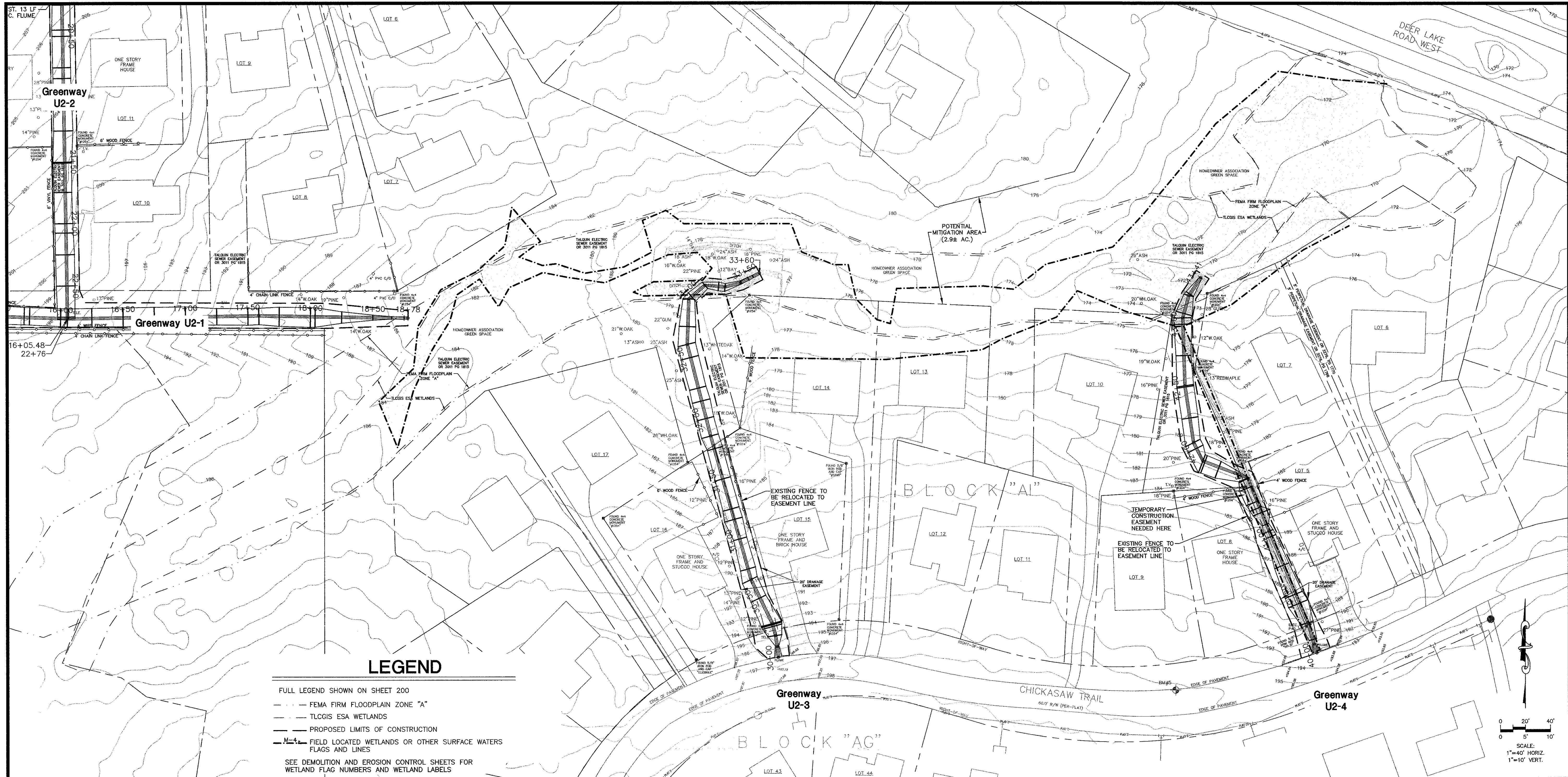


CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
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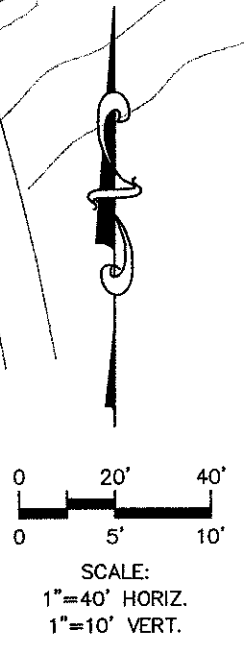
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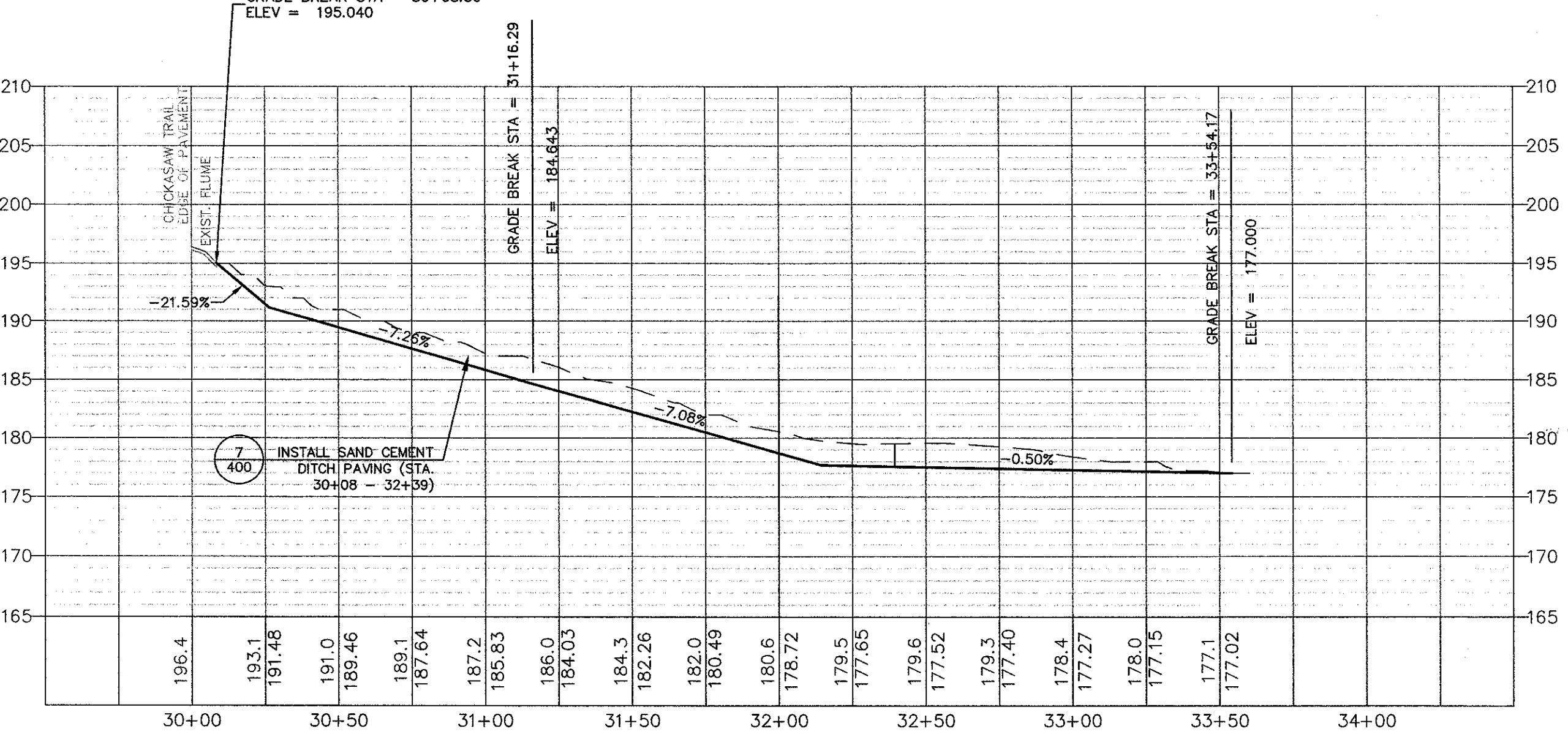


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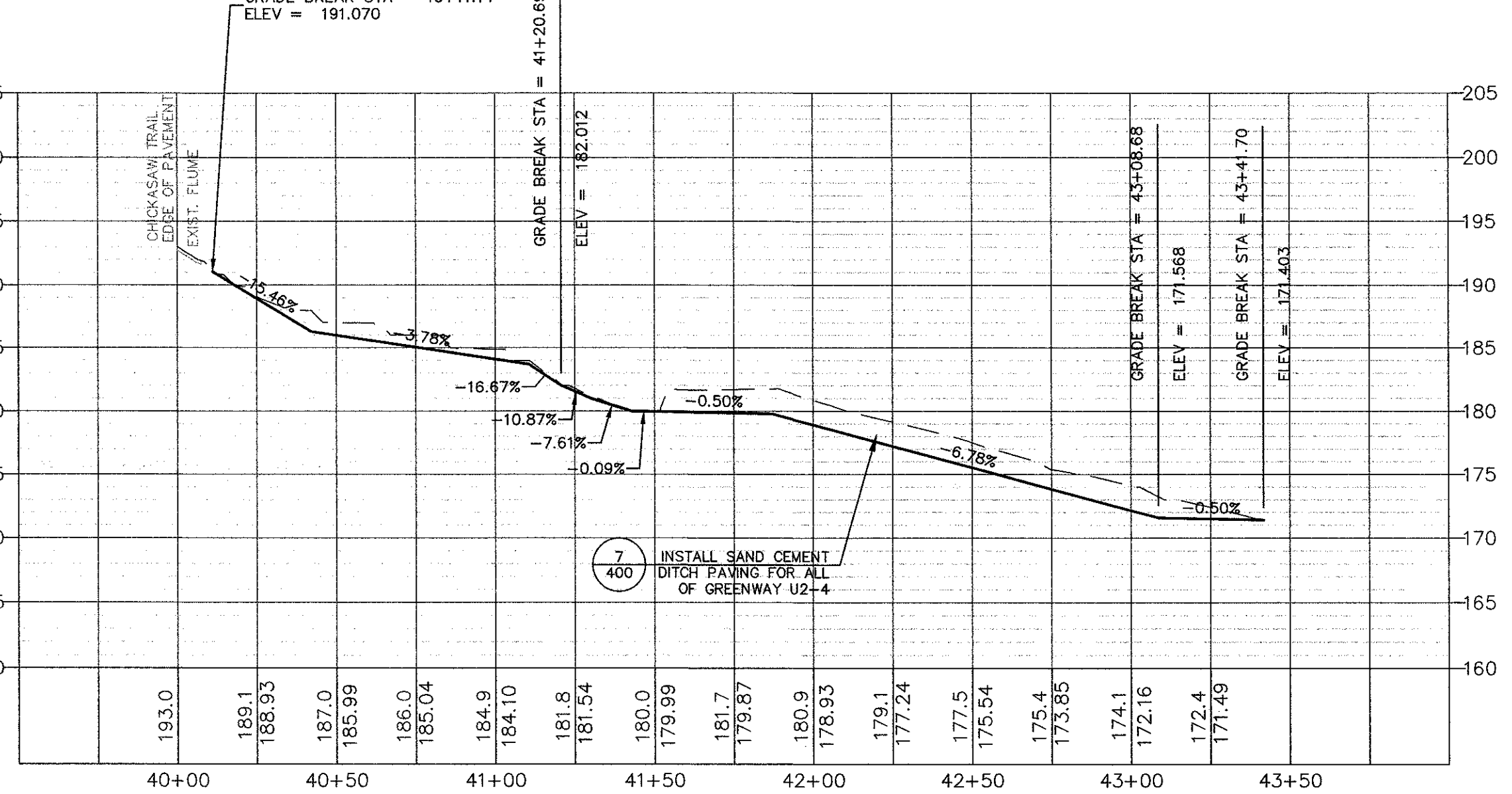
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- - - FEMA FIRM FLOODPLAIN ZONE "A"
  - - - TLCGIS ESA WETLANDS
  - - - PROPOSED LIMITS OF CONSTRUCTION
  - - - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES
- SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



**Greenway U2-3**



**Greenway U2-4**



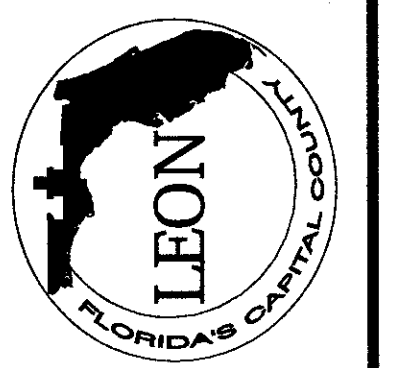
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 CHECKED WKJ  
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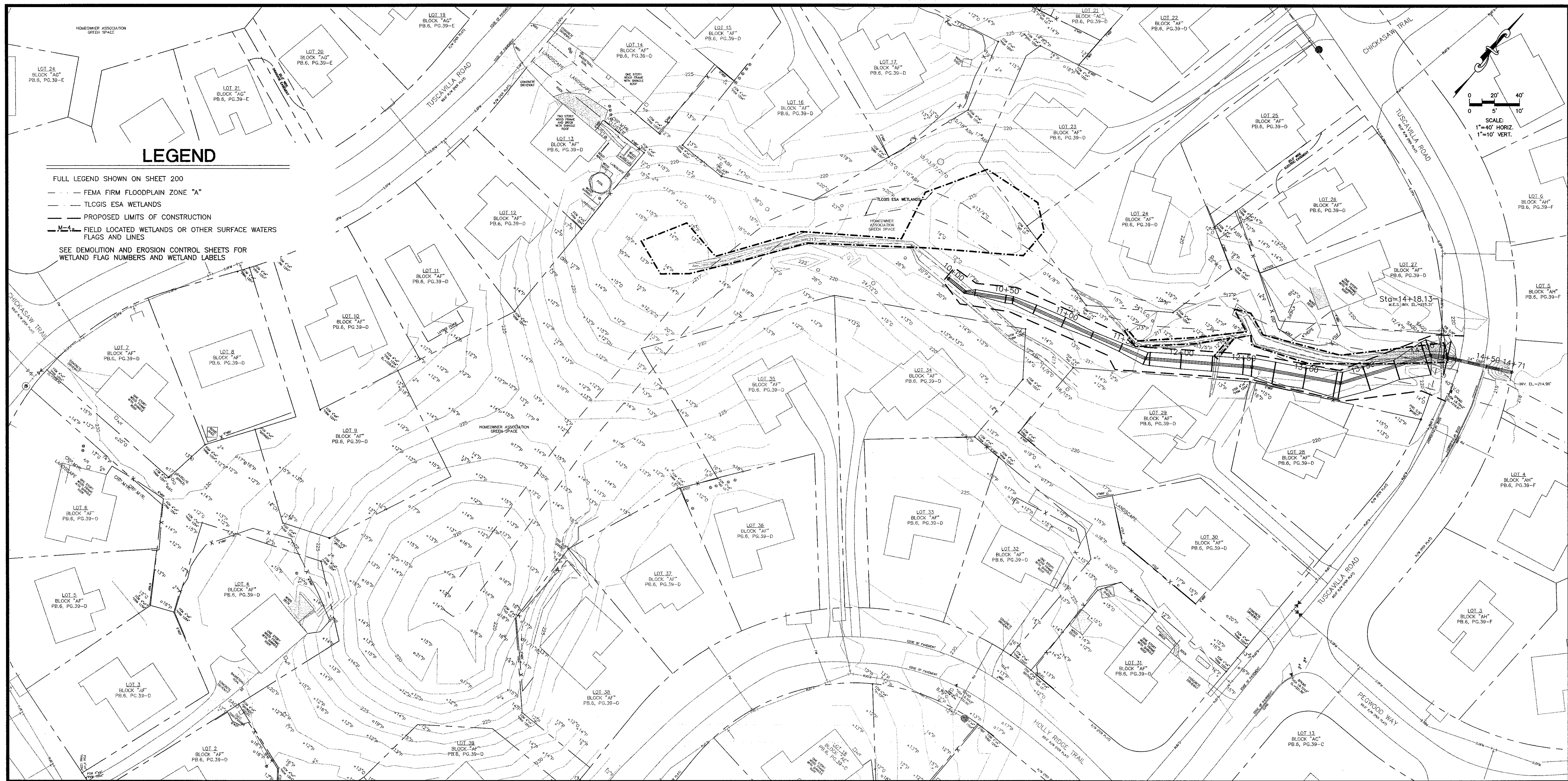
WILLIAM K. JOHNSON  
 P.E. NO. 47040  
 ORIGINAL: JULY 2012  
 REVISIONS:  
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TASK  
**Greenway U2-3  
 & U2-4 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killeam Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

CLIENT  
  
 FLORIDA CAPITAL CORP.

**ATKINS**  
 2699 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBRP Certificate of Authorization No. 24



**LEGEND**

- FULL LEGEND SHOWN ON SHEET 200
  - - - FEMA FIRM FLOODPLAIN ZONE "A"
  - - - TLAGIS ESA WETLANDS
  - - - PROPOSED LIMITS OF CONSTRUCTION
  - - - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES
- SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS

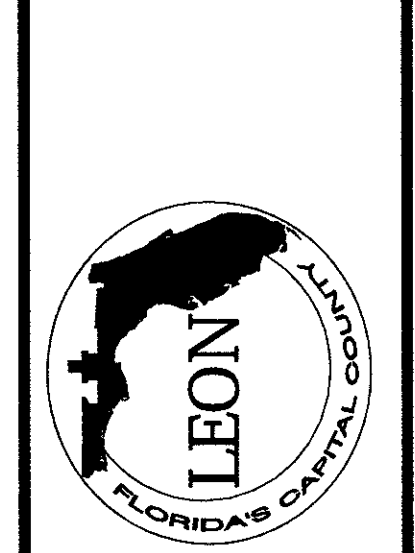
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 CHECKED WKJ  
 OC  
 SHEET 215

WILLIAM K. JOHNSON  
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ORIGINAL: JULY 2012  
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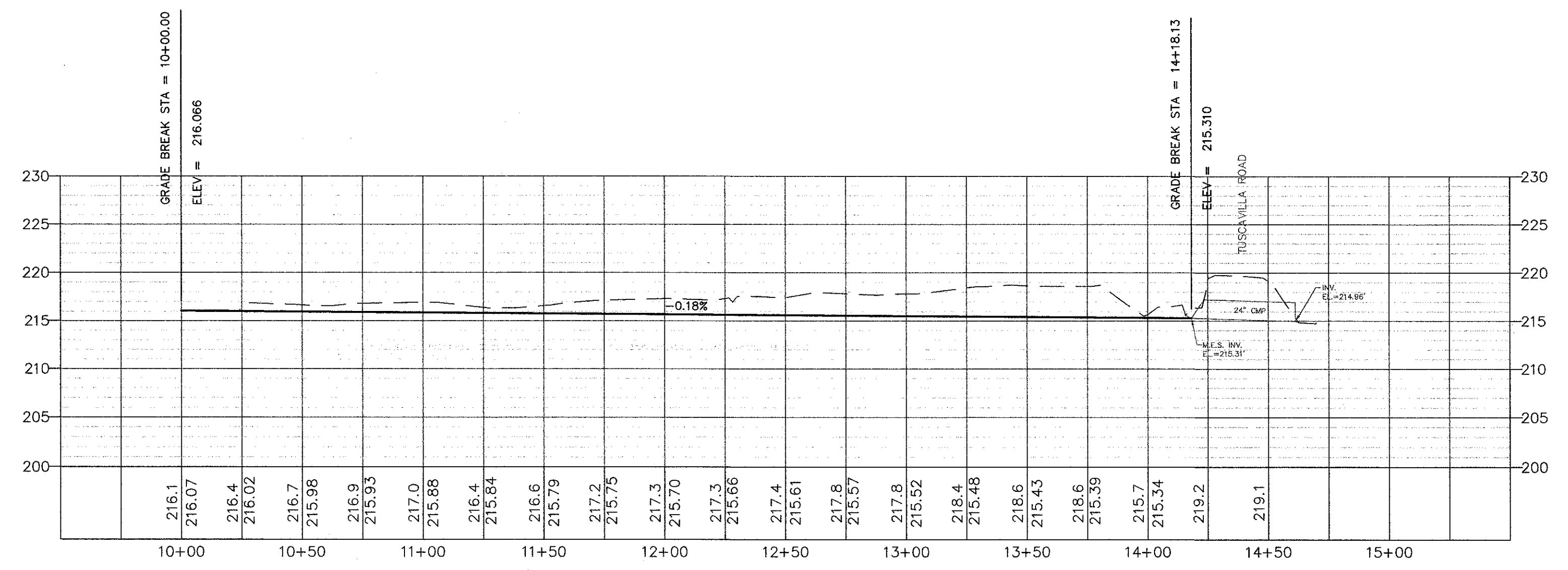
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 PLAN AND PROFILE**

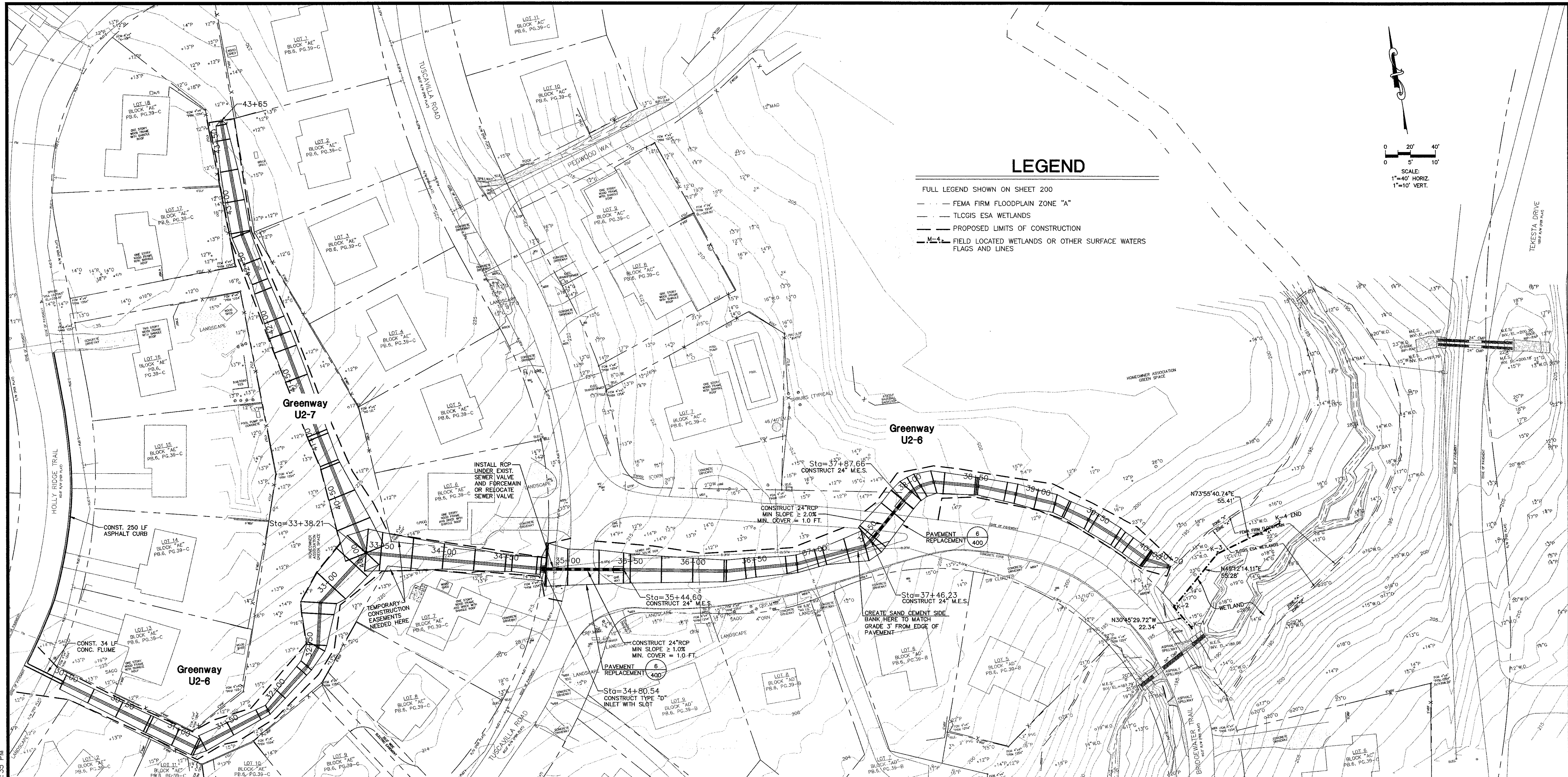
**Killbuck Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
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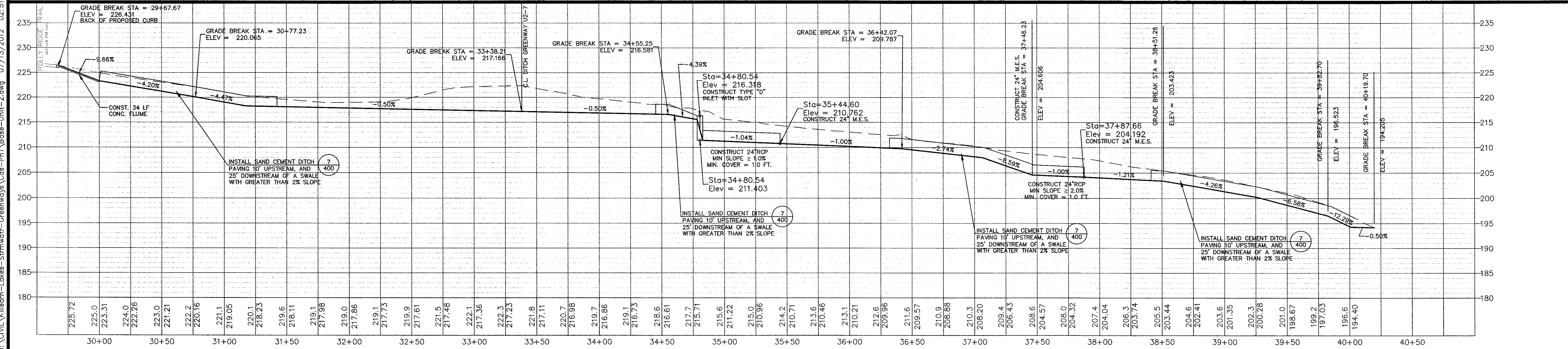
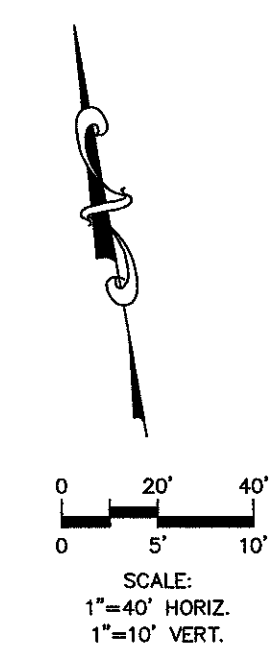




**LEGEND**

FULL LEGEND SHOWN ON SHEET 200

- FEMA FIRM FLOODPLAIN ZONE "A"
- TlCGIS ESA WETLANDS
- PROPOSED LIMITS OF CONSTRUCTION
- FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES



JOB NO. 100014954  
 DRAWN MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 QC

WILLIAM K. JOHNSON  
 P.E. NO. 41040  
 JULY 2012

ORIGINAL: JULY 2012  
 REVISIONS:  
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**Greenway U2-6  
 DRAINAGE  
 PLAN AND PROFILE**

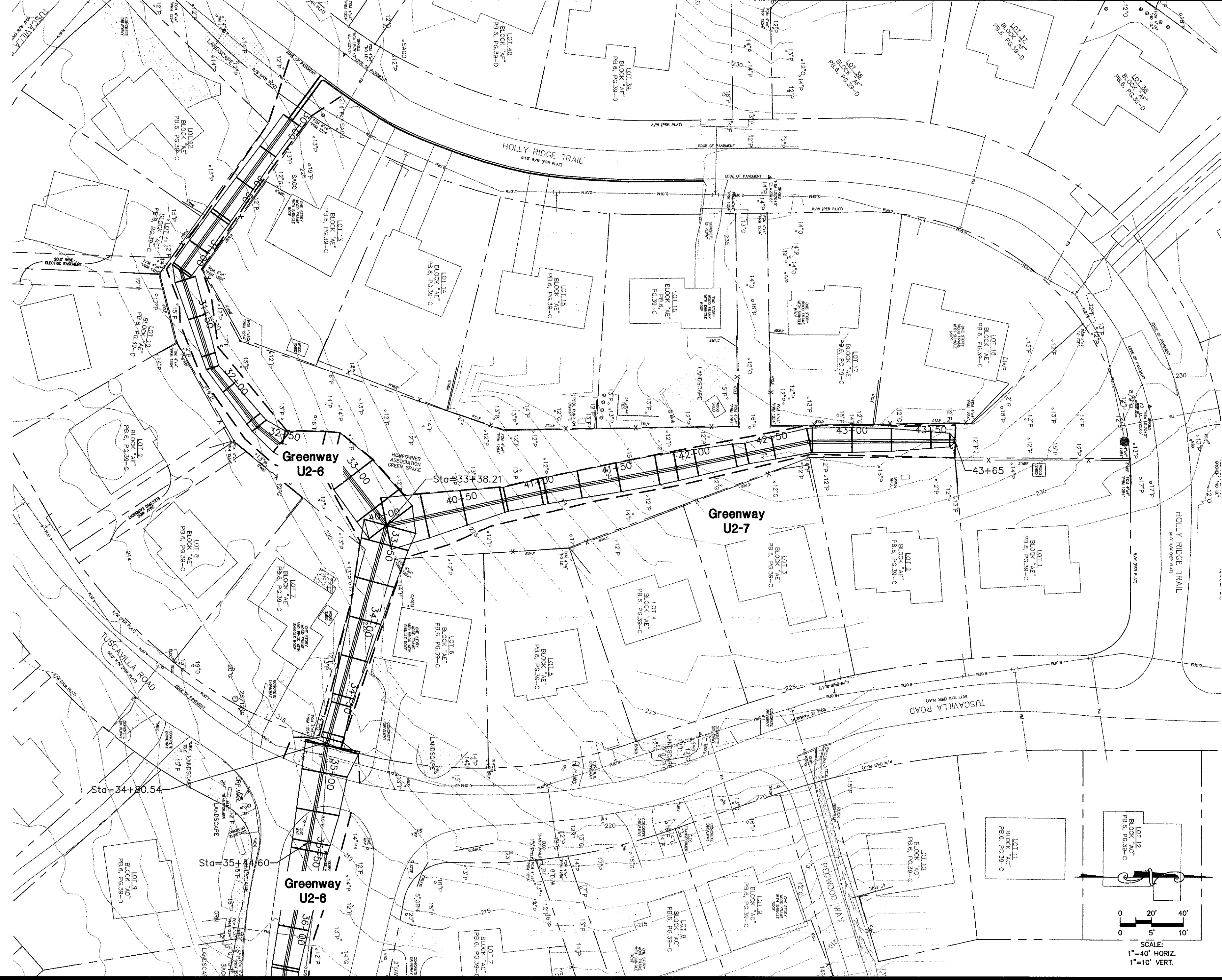
**Killbuck Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



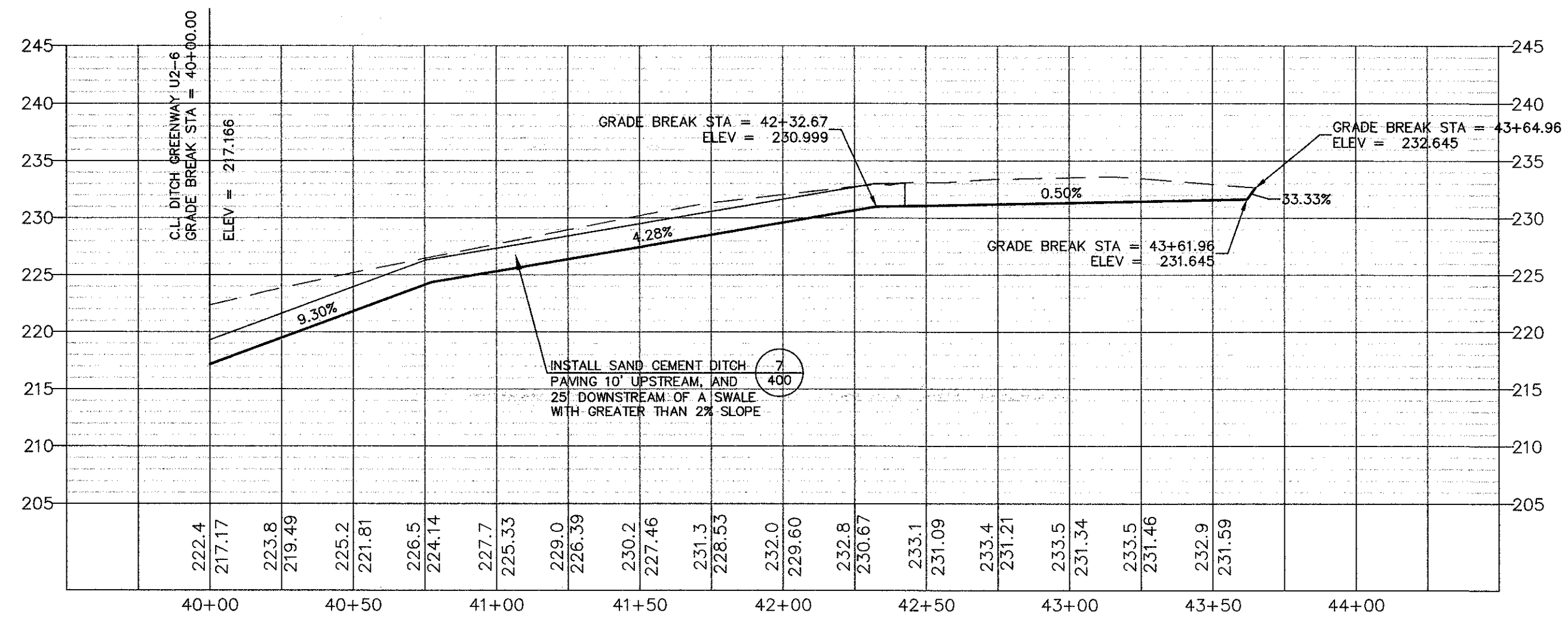
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**ATKINS**  
 2899 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

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NOTE:  
FULL LEGEND SHOWN ON SHEET 200



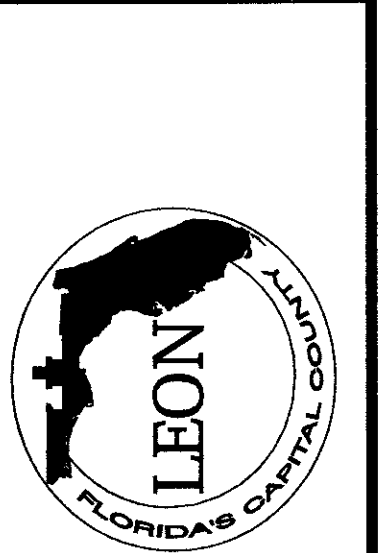
JOB NO.	100014954
MR.	
DRAWN	GCB
DESIGNED	WJK
CHECKED	OC
DATE	

WILLIAM K. JOHNSON  
P.E. NO. #1040  
7/3/12  
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NOT VALID FOR ANY OTHER PROJECTS UNLESS SHOWN IN THIS BLOCK

ORIGINAL	JULY 2012
REVISIONS:	
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TASK  
**Greenway U2-7  
DRAINAGE  
PLAN AND PROFILE**

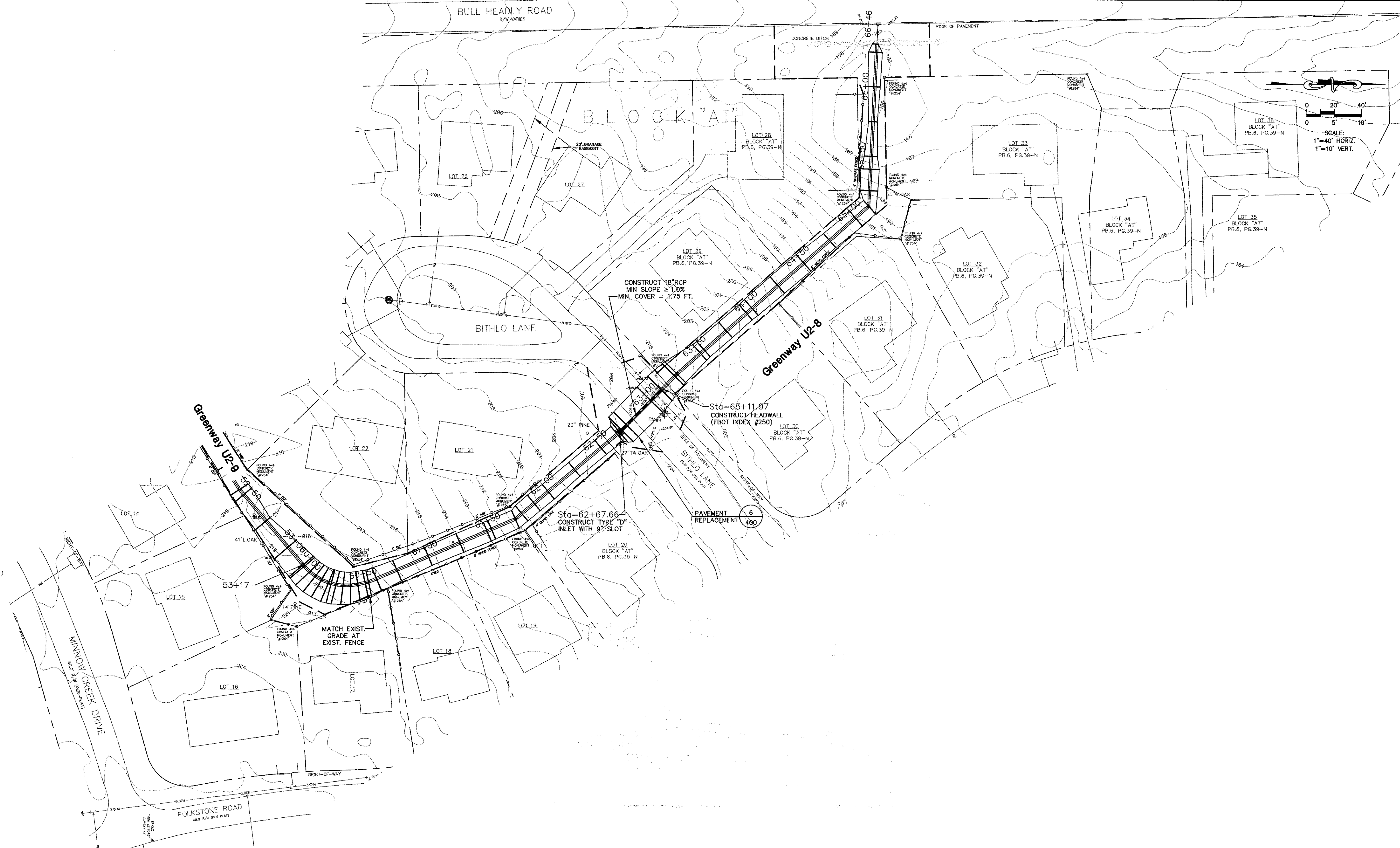
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Maintenance and Restoration  
Plans - Phase 1**



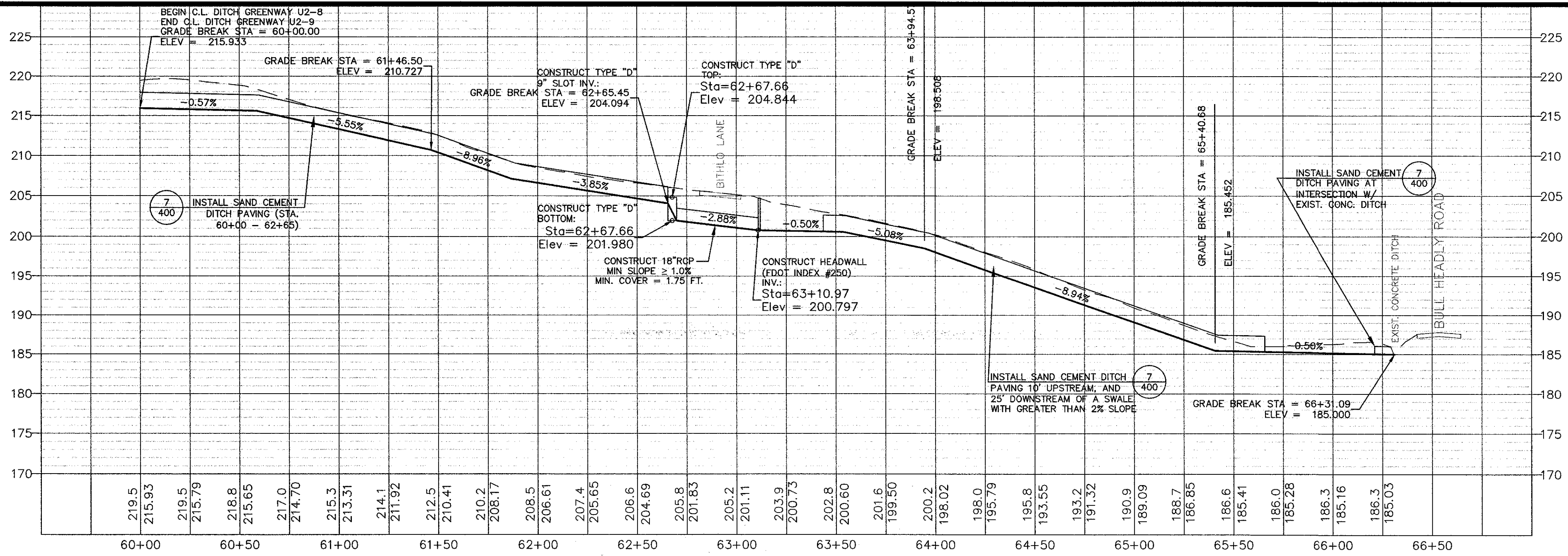
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**ATKINS**  
2639 N. Monroe St. Building C  
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NOTE:  
FULL LEGEND SHOWN ON SHEET 200



JOB NO. 100014954  
DRAWN MR  
DESIGNED GCB  
CHECKED WKJ  
OC  
SHEET 218

WILLIAM K. JOHNSON  
P.E. NO. 33133  
SCALE:  
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1"=10' VERT.

ORIGINAL REVISIONS:  
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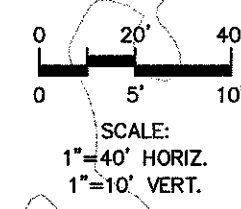
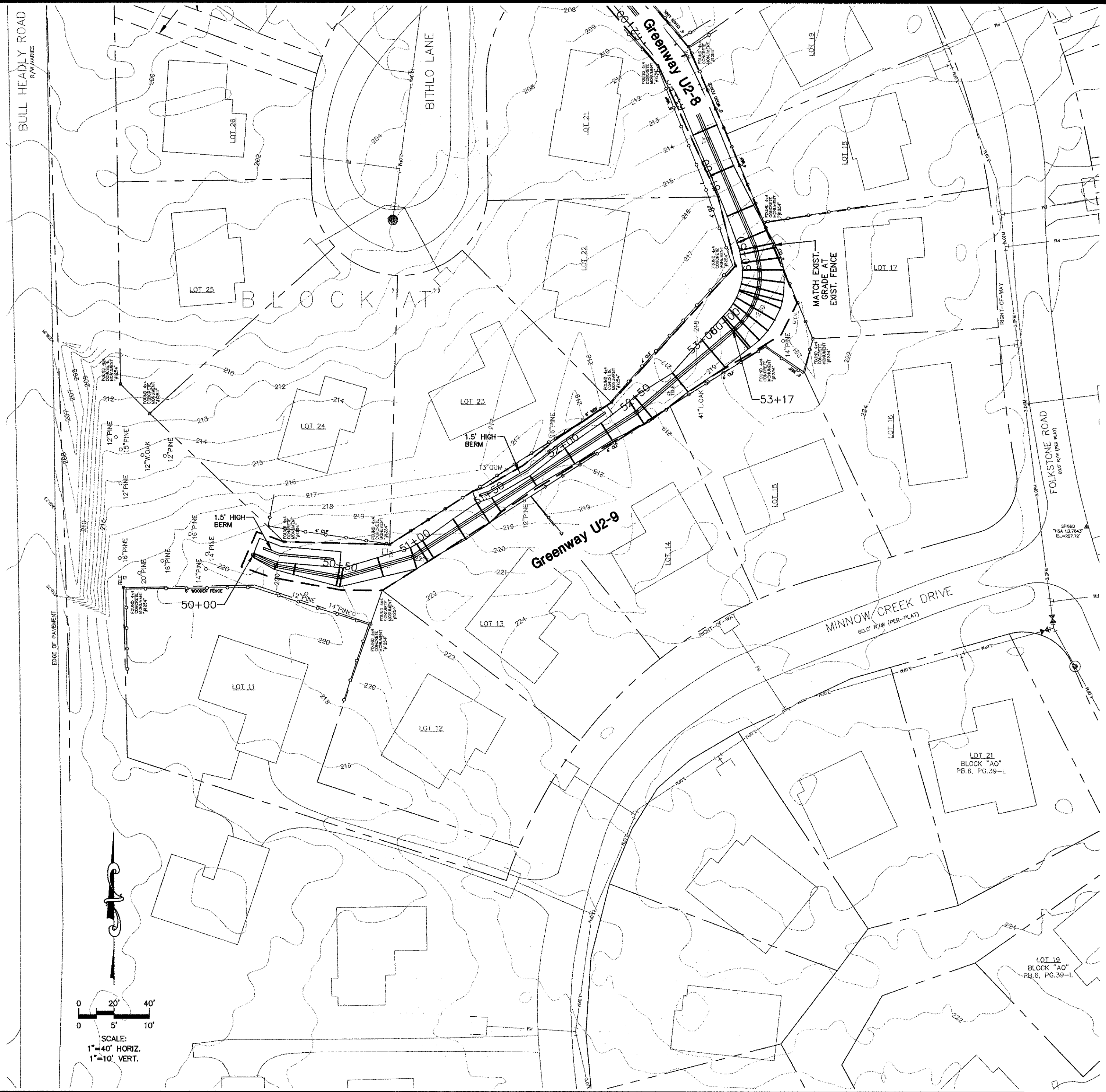
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Greenway U2-8  
DRAINAGE  
PLAN AND PROFILE

PROJECT  
Killarn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1

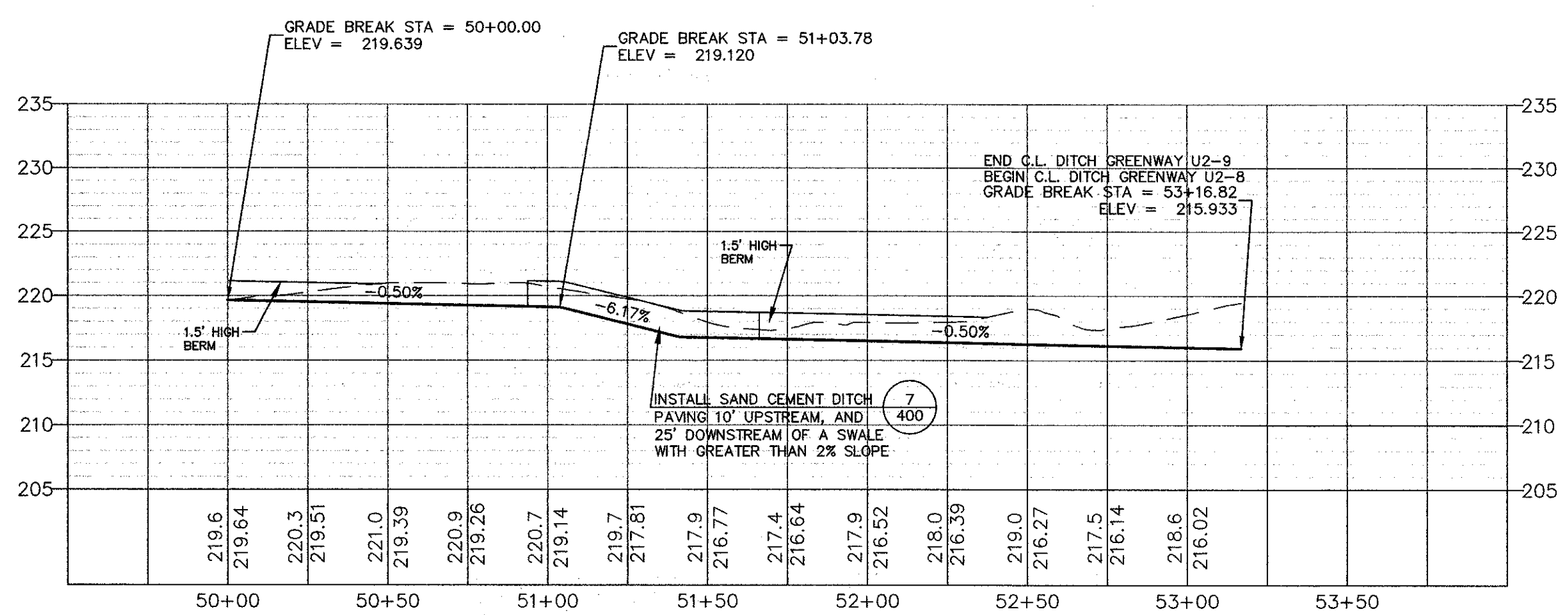


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**ATKINS**  
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Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24



NOTE:  
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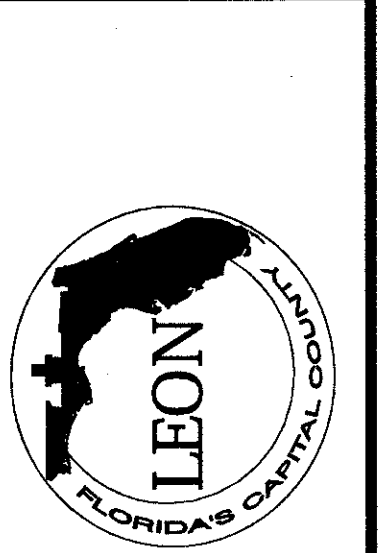
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DRAWN	MR.
DESIGNED	GCB
CHECKED	WKJ
OC	

WILLIAM K. JOHNSON  
 P.E. NO. 41040  
 07/06/2012  
 NOT VALID FOR THE FLOOR  
 UNLESS SIGNED IN THE BLOCK

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REVISIONS:	
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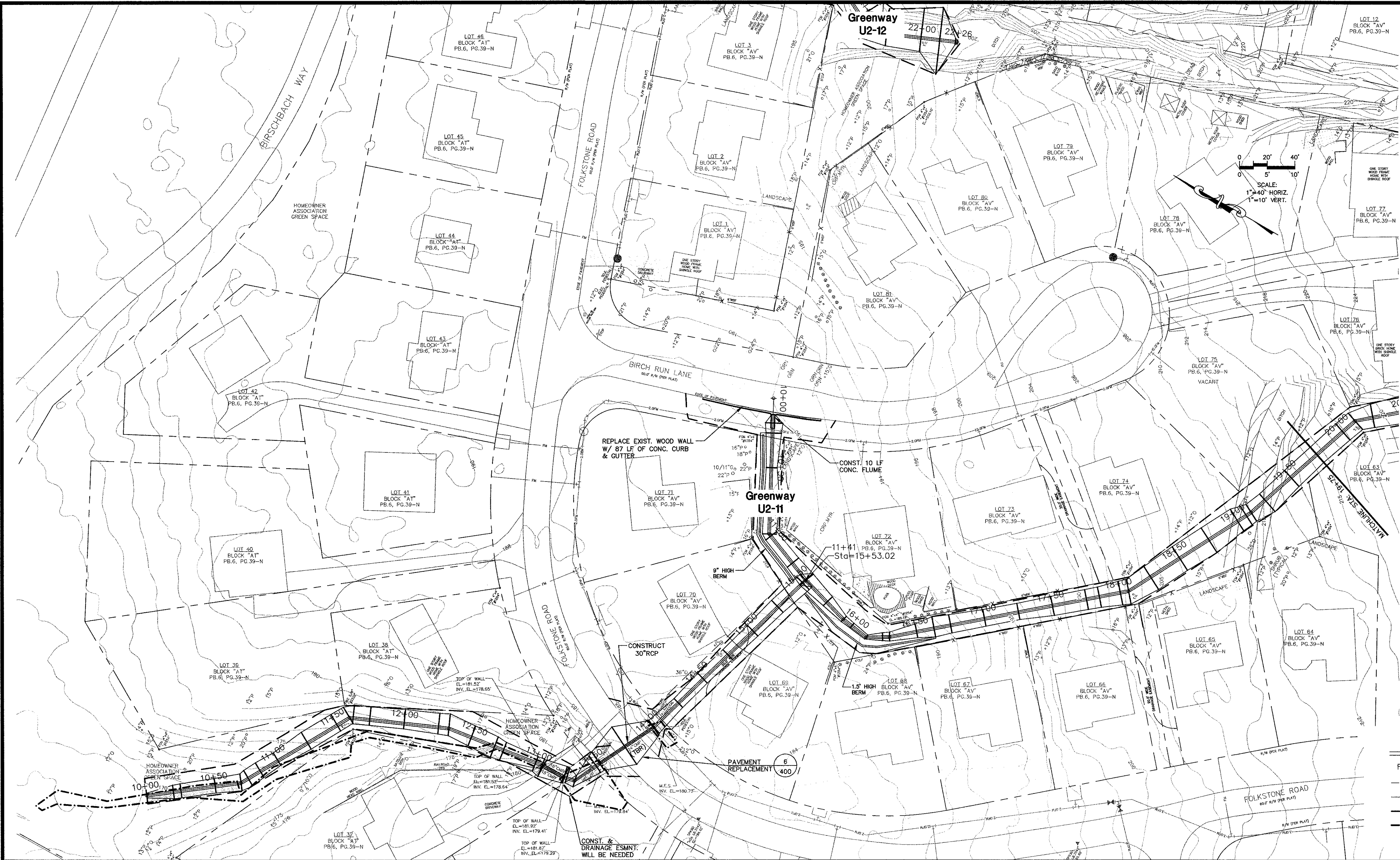
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 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killearn Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



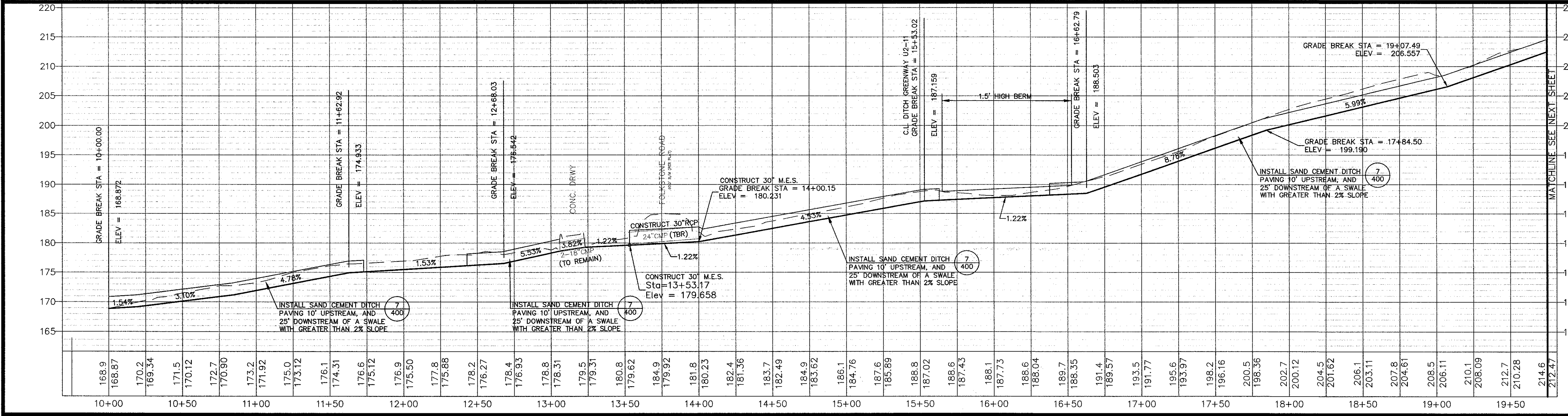
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**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FEPR Certificate of Authorization No. 24



### LEGEND

- FULL LEGEND SHOWN ON SHEET 200
  - FEMA FIRM FLOODPLAIN ZONE "A"
  - TLLGIS ESA WETLANDS
  - PROPOSED LIMITS OF CONSTRUCTION
  - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES
- SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



JOB NO. 100014954  
 MR. WILLIAM K. JOHNSON  
 P.E. NO. 10040

DESIGNED	MR.
CHECKED	CCB
DRAWN	WKJ
OC	

SHEET 220

ORIGINAL REVISIONS:

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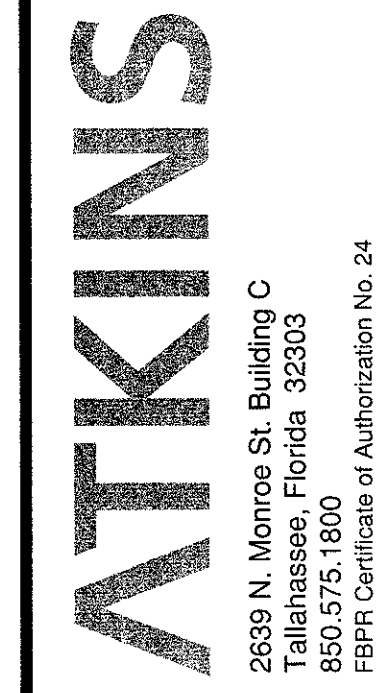
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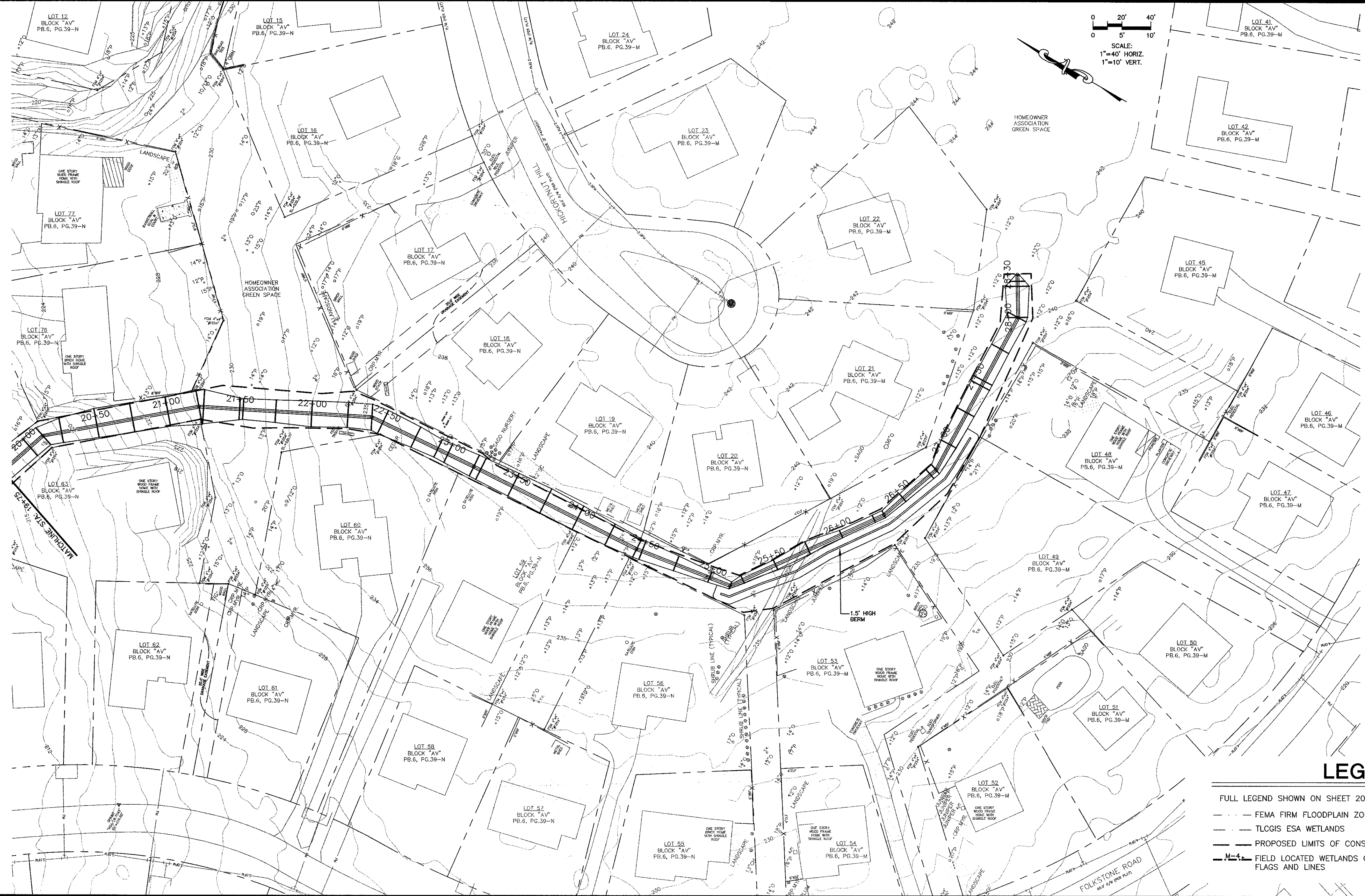
## Greenway U2-10 DRAINAGE PLAN AND PROFILE

## Killlearn Lakes Greenways Maintenance and Restoration Plans - Phase 1



CLIENT

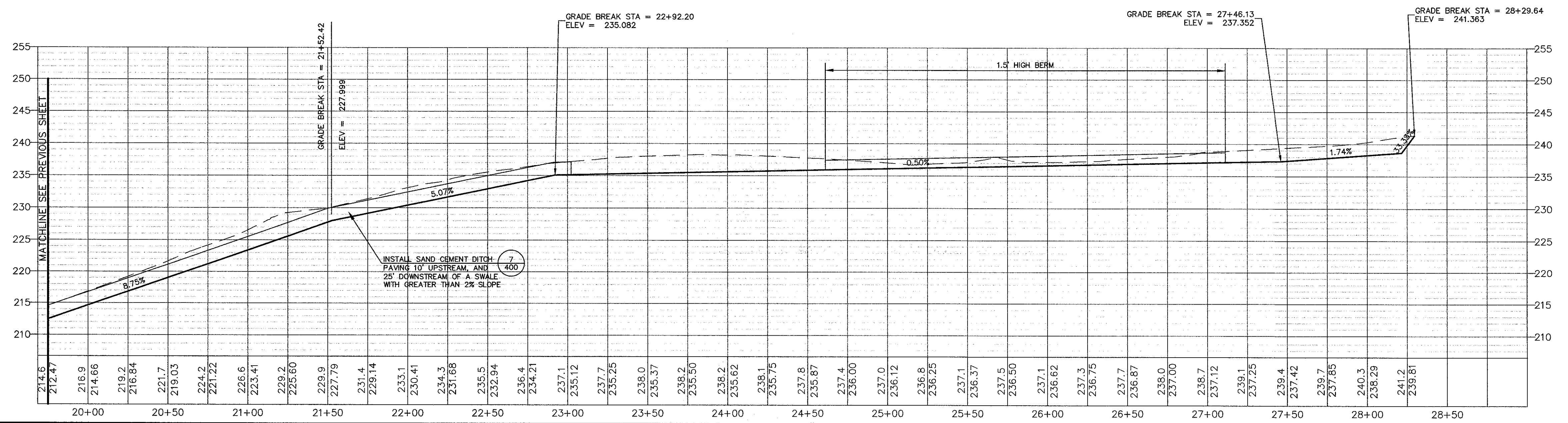




SCALE:  
1"=40' HORIZ.  
1"=10' VERT.

**LEGEND**

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - TLOGIS ESA WETLANDS
  - PROPOSED LIMITS OF CONSTRUCTION
  - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES



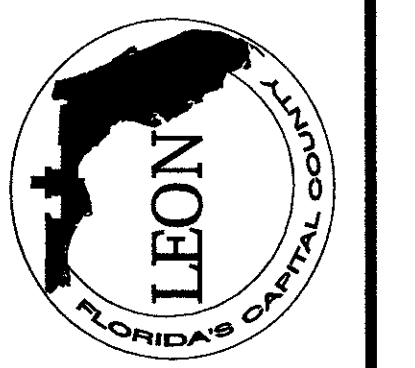
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DESIGNED GCB  
CHECKED WKJ  
QC  
SHEET 221

WILLIAM K. JOHNSON  
P.E. NO. 41040  
DATE: 7/11/12  
NOT VALID FOR CONSTRUCTION UNLESS SIGNED BY THE DESIGNER

ORIGINAL: JULY, 2012  
REVISIONS:  
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TASK  
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DRAINAGE  
PLAN AND PROFILE**

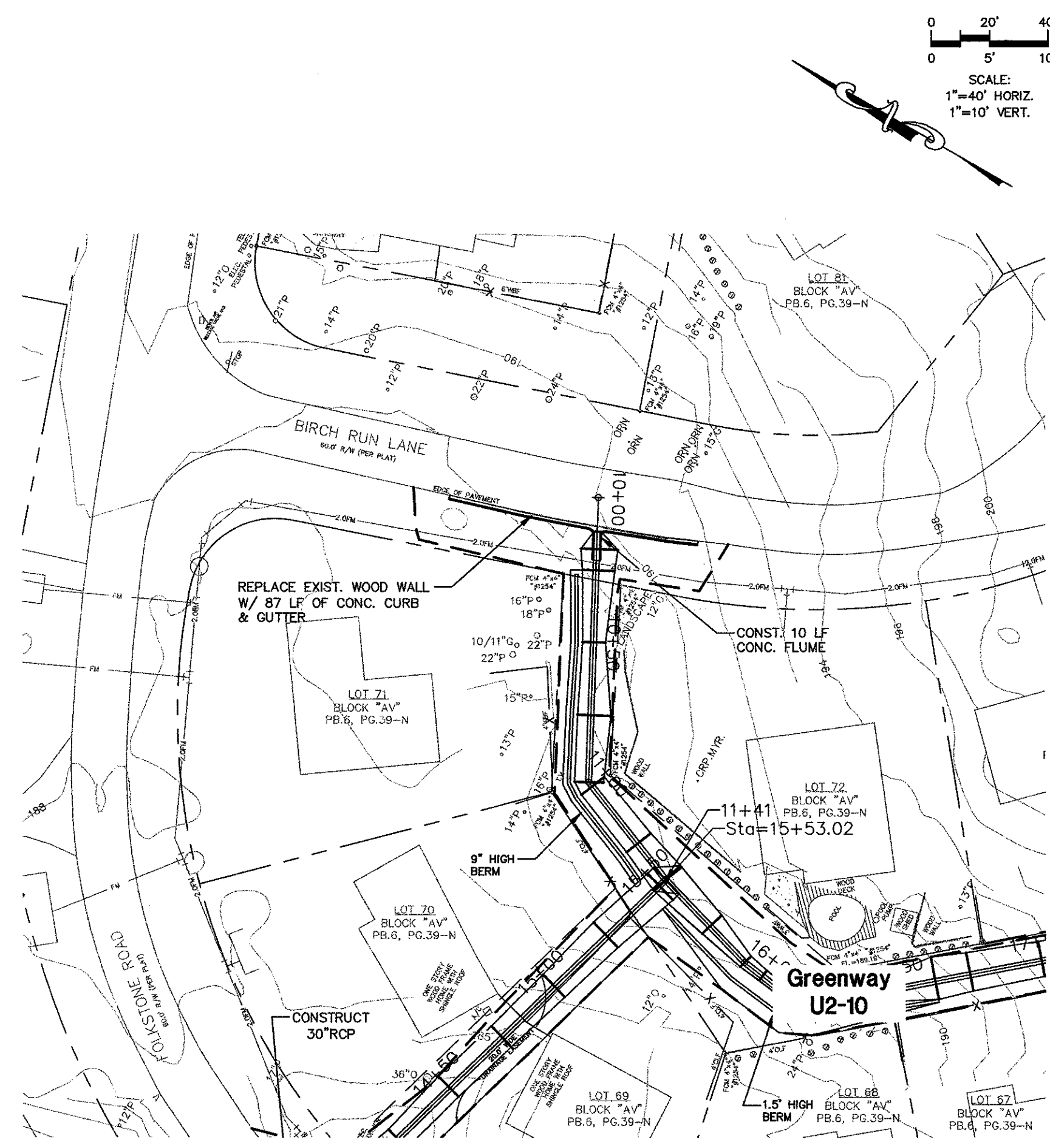
PROJECT  
**Killdean Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



CLIENT

**ATKINS**  
2839 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24





Greenway U2-11

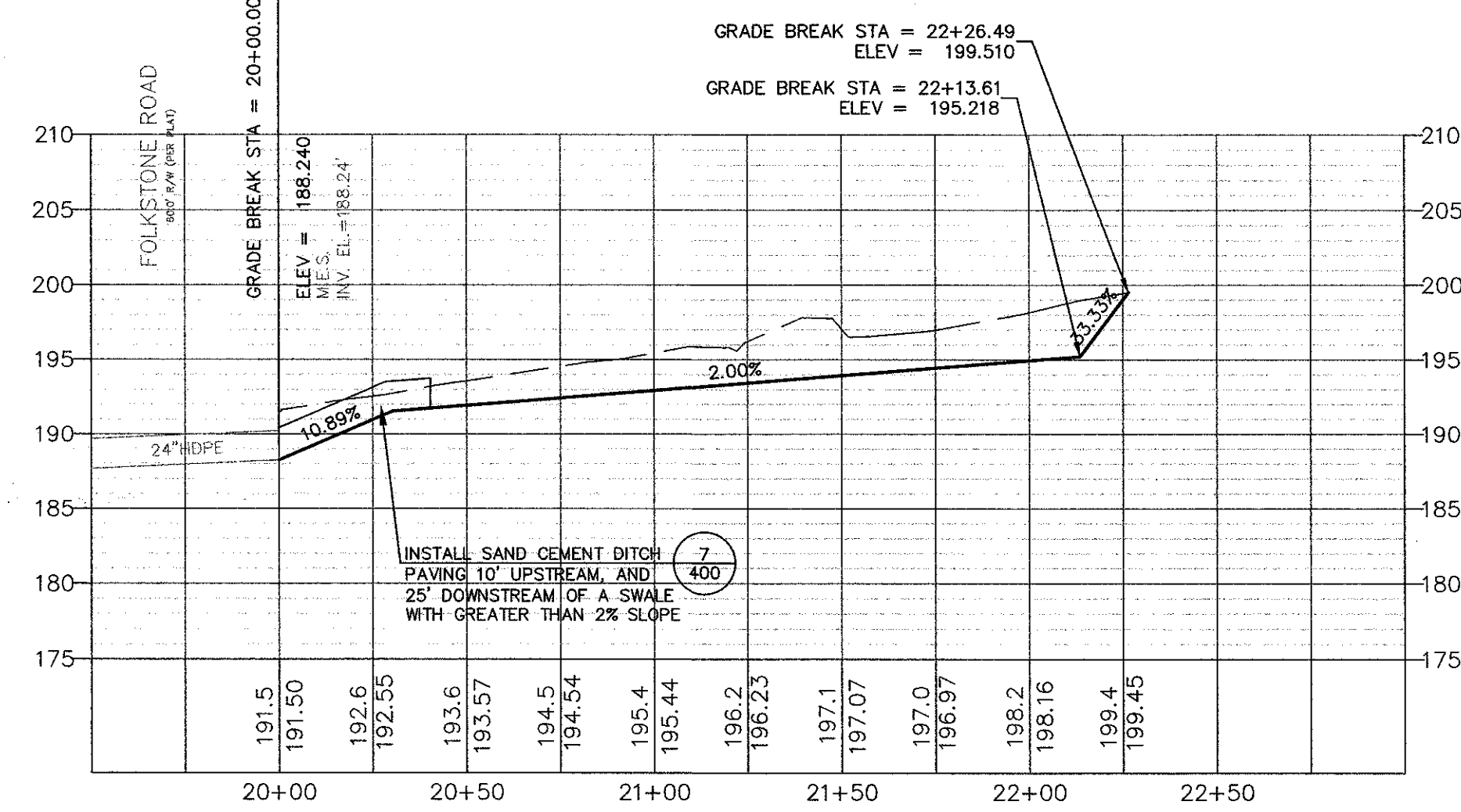
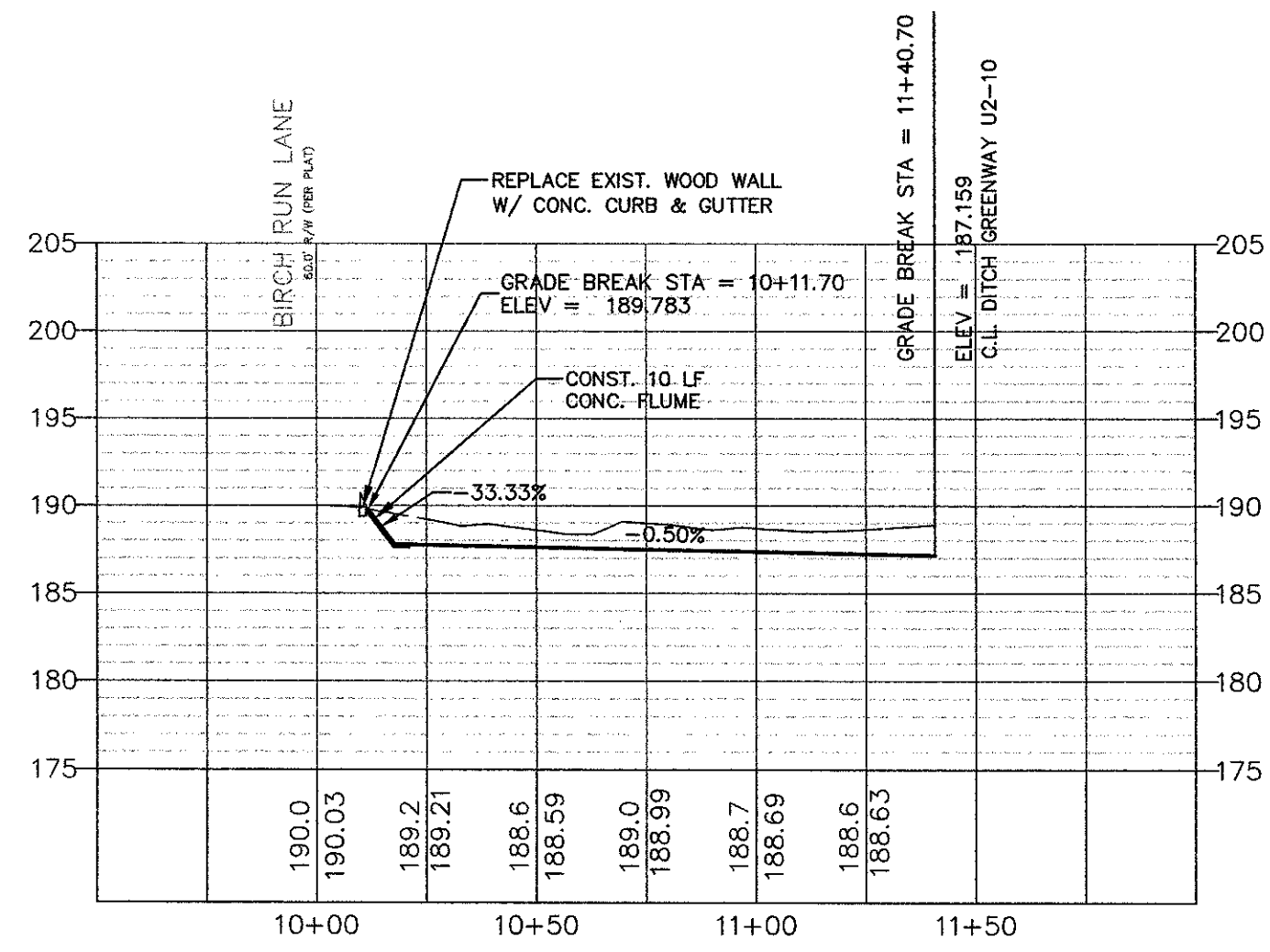


Greenway U2-12

**LEGEND**

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- - - FEMA FIRM FLOODPLAIN ZONE "A"
- - - TLCSIS ESA WETLANDS
- - - PROPOSED LIMITS OF CONSTRUCTION
- M.S. FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAWS AND LINES



JOB NO. 100014954  
 DRAWN MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 OC

WILLIAM K. JOHNSON  
 P.E. NO. 4040  
 JULY 2012

ORIGINAL REVISIONS:  
 1  
 2  
 3  
 4  
 5

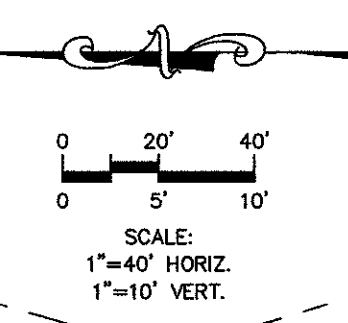
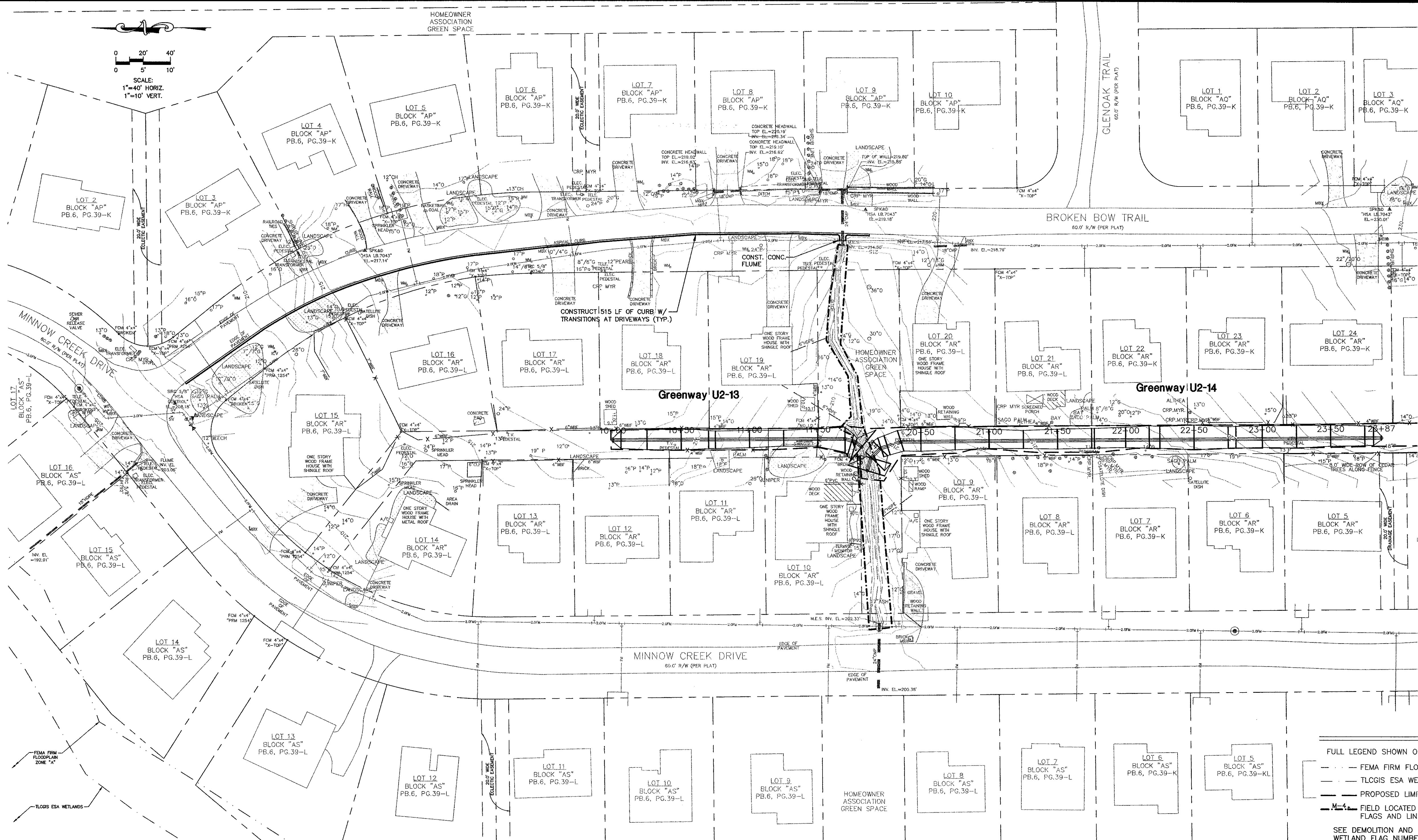
TASK  
**Greenway U2-11 & U2-12  
 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killbuck Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

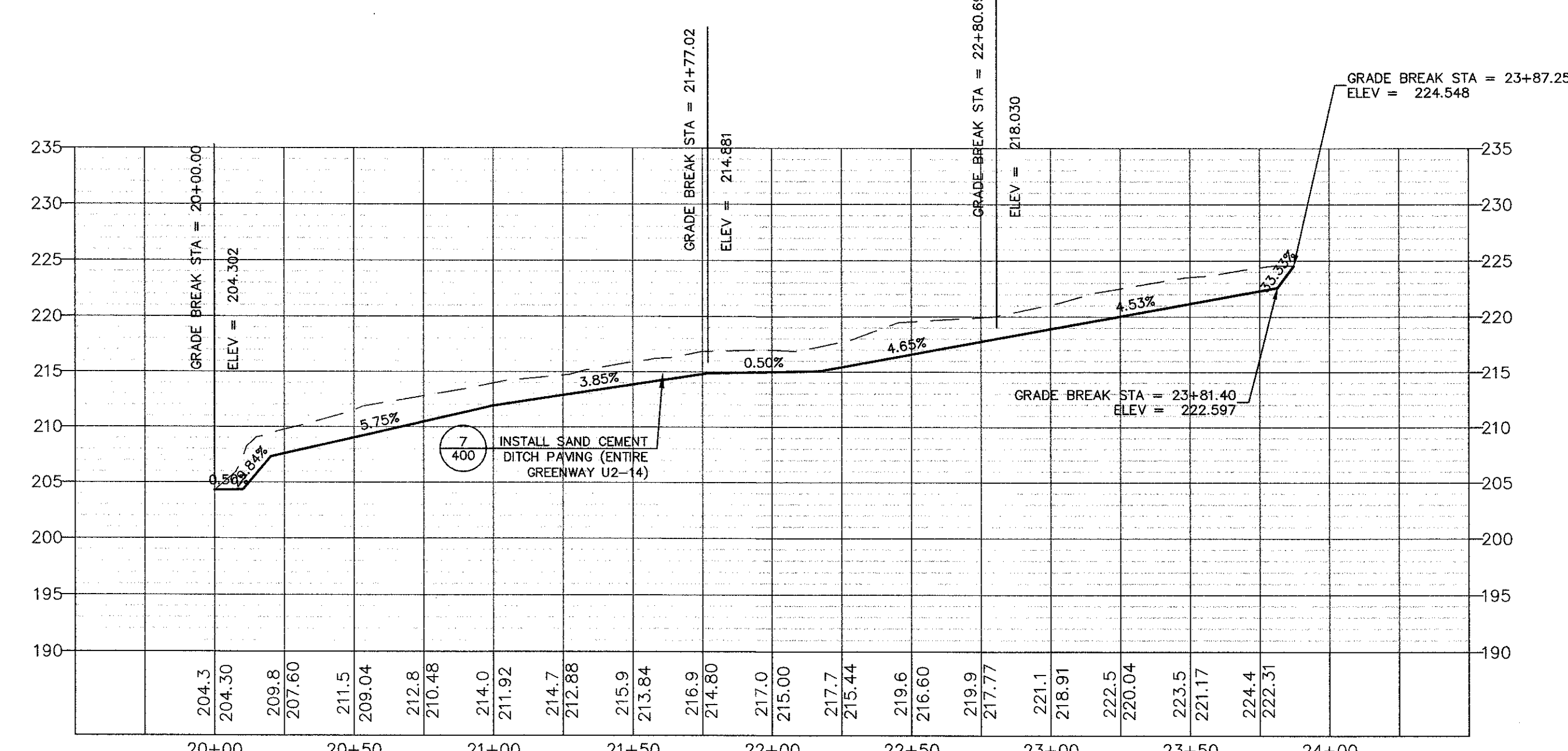
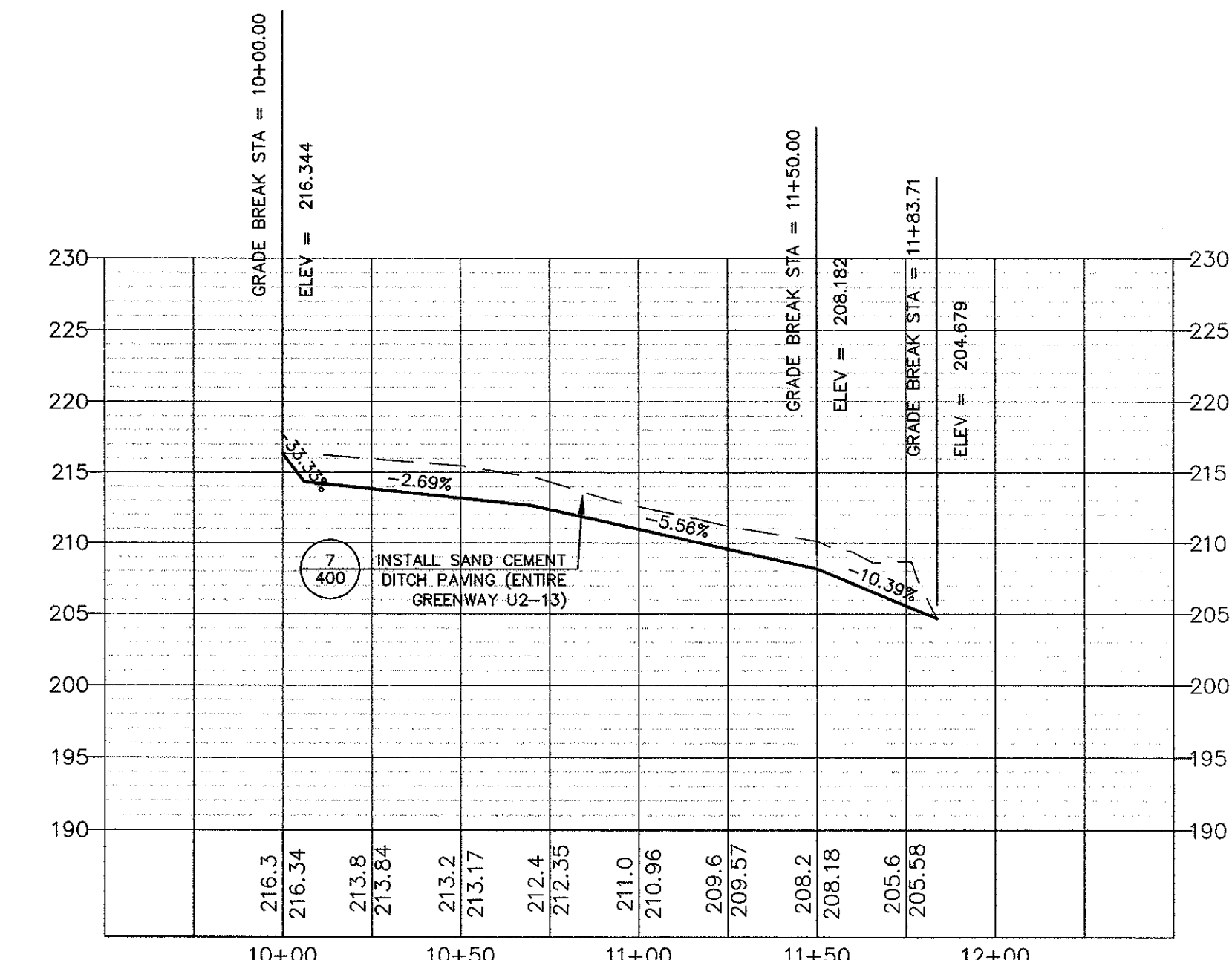


### LEGEND

FULL LEGEND SHOWN ON SHEET 200

- FEMA FIRM FLOODPLAIN ZONE "A"
- TIGIS ESA WETLANDS
- PROPOSED LIMITS OF CONSTRUCTION
- FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



C:\temp\AcPublish\_10800\AcPublish-Unit-2.dwg 07/06/2012 05:04:31 PM

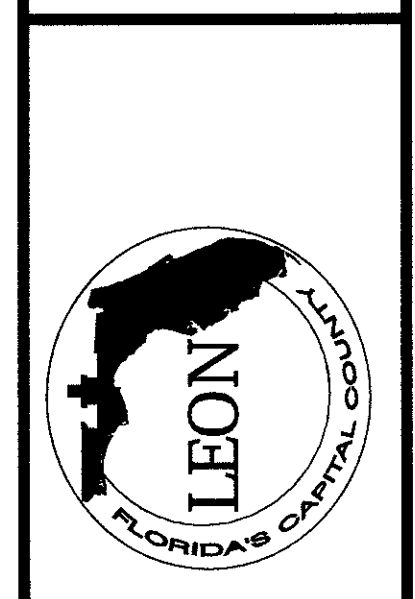
JOB NO. 100014954	MIR
DRWN	GCB
DESIGNED	WKJ
CHECKED	CC
DATE	07/06/2012

WILLIAM K. JOHNSON  
P.E. NO. 41040  
  
 NOT VALID FOR USE IN FLORIDA  
UNLESS SIGNED IN PRESENCE OF

ORIGINAL	1
REVISIONS:	2
	3
	4
	5

TASK  
**Greenway U2-13 & U2-14  
 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killearn Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

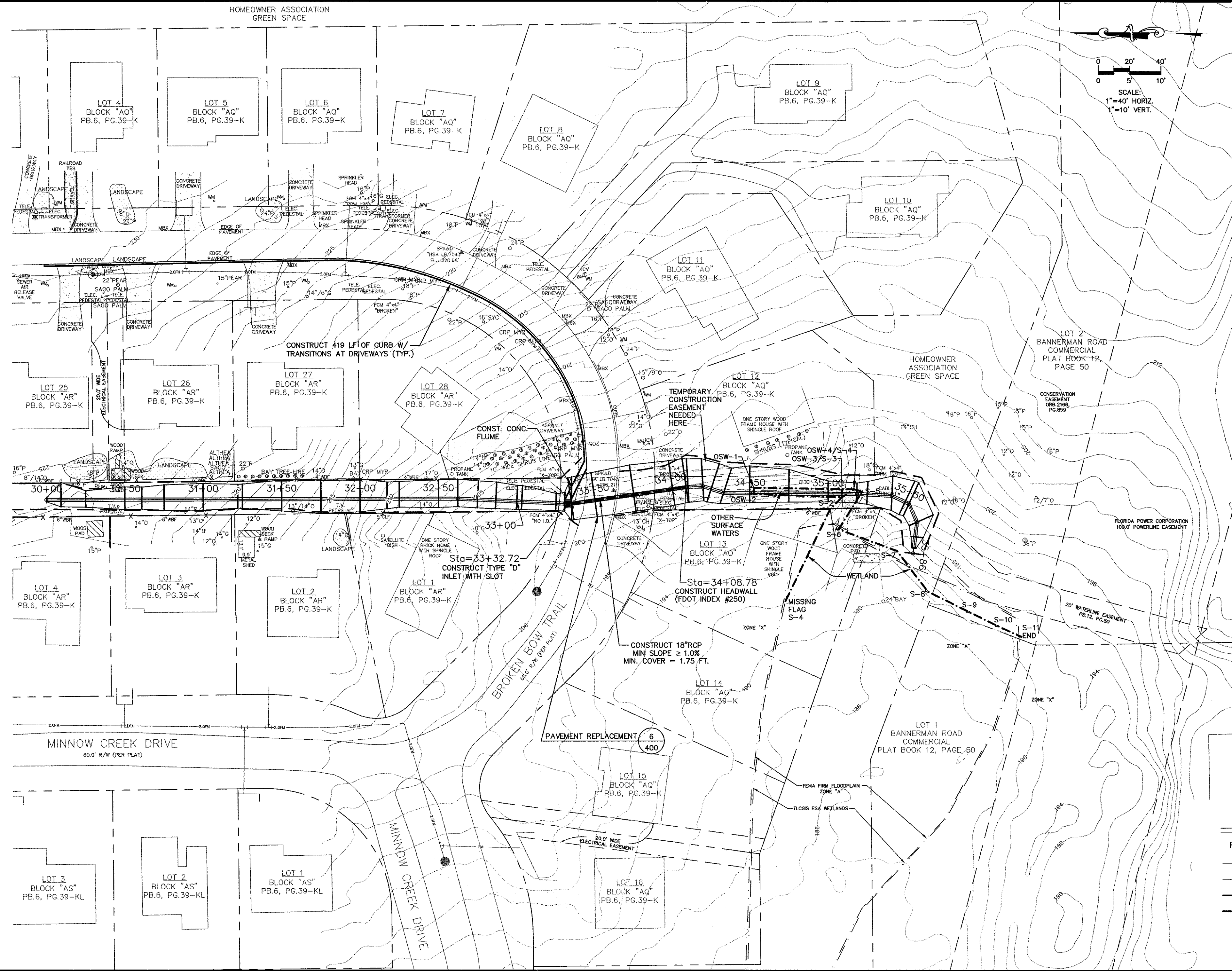


CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

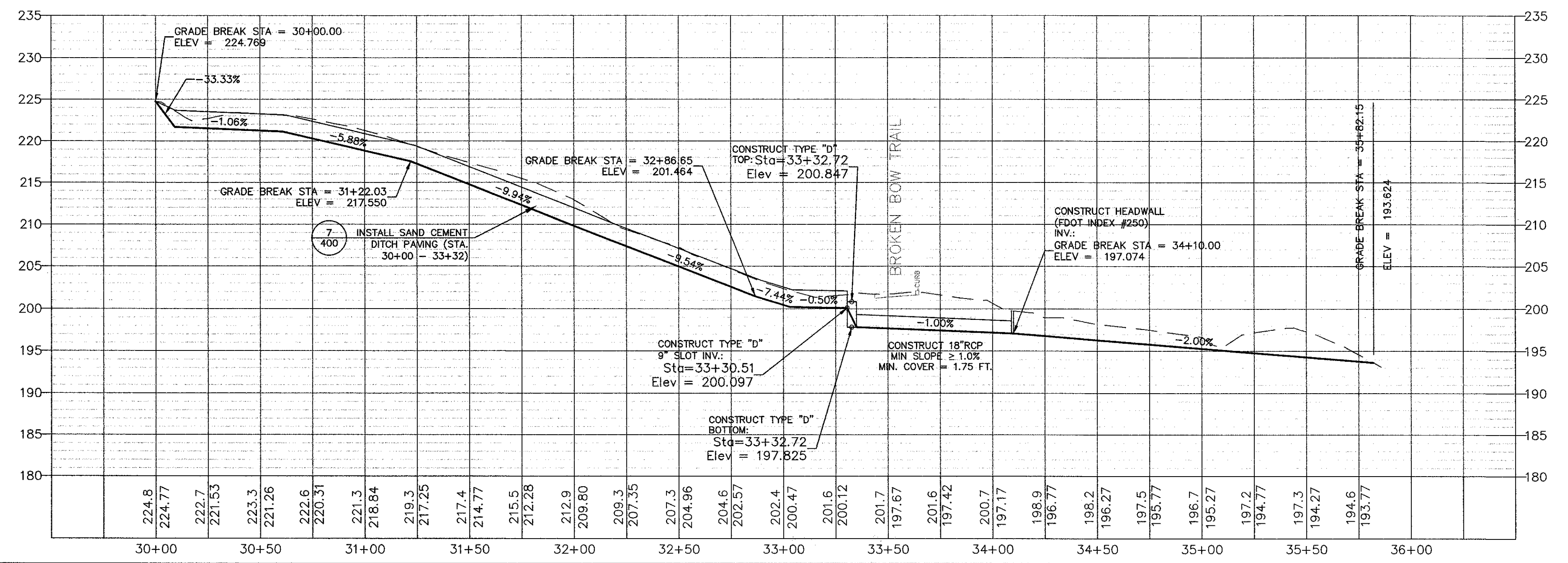
SHEET 223

H:\QVIL\Killbourn-Lakes-Strmwater-Greenways\Cds-PH1\Base-Unit-2.dwg 07/13/2012 03:27:04 PM



**LEGEND**

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
- TLCCIS ESA WETLANDS
- PROPOSED LIMITS OF CONSTRUCTION
- FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

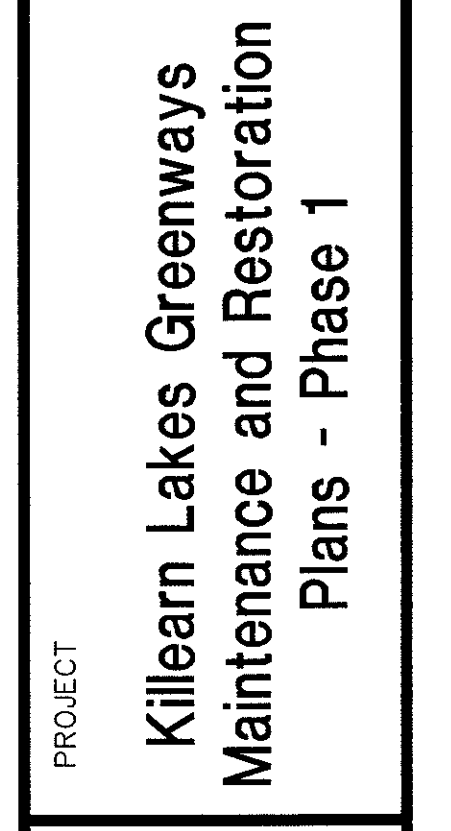


JOB NO. 100014954  
 MR. DRAWN  
 GCB DESIGNED  
 WKJ CHECKED  
 CC  
 SHEET 224

WILLIAM K. JOHNSON  
 P.E. NO. 41049  
 ORIGINAL: JULY 2012  
 REVISIONS:  
 1  
 2  
 3  
 4  
 5

TASK  
 Greenway U2-15  
 DRAINAGE  
 PLAN AND PROFILE

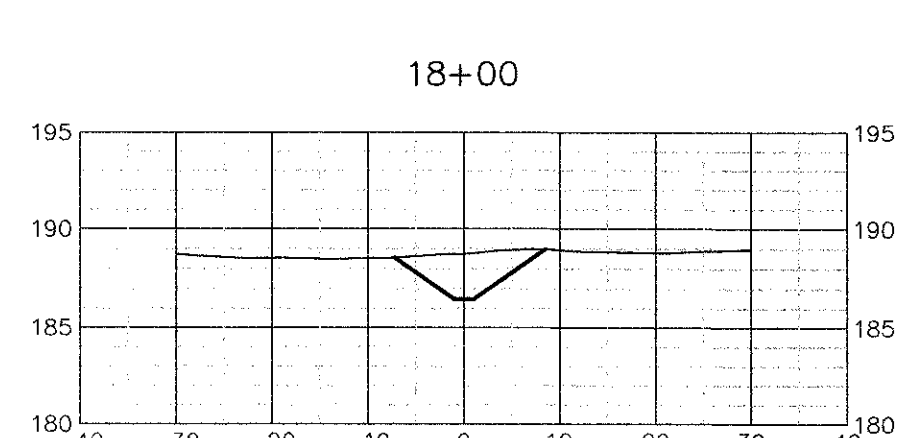
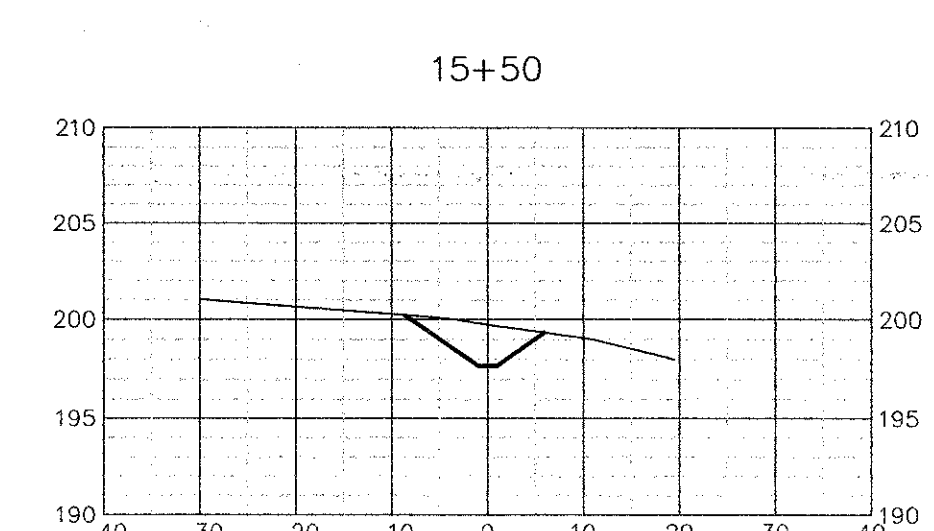
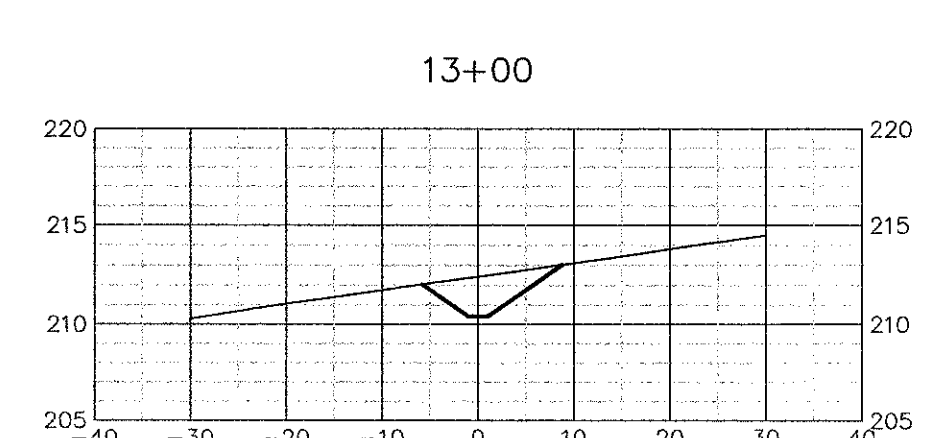
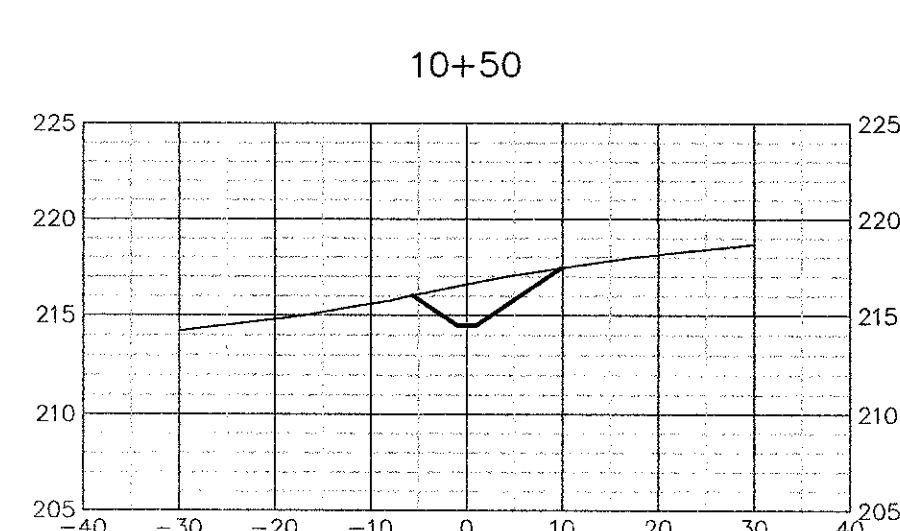
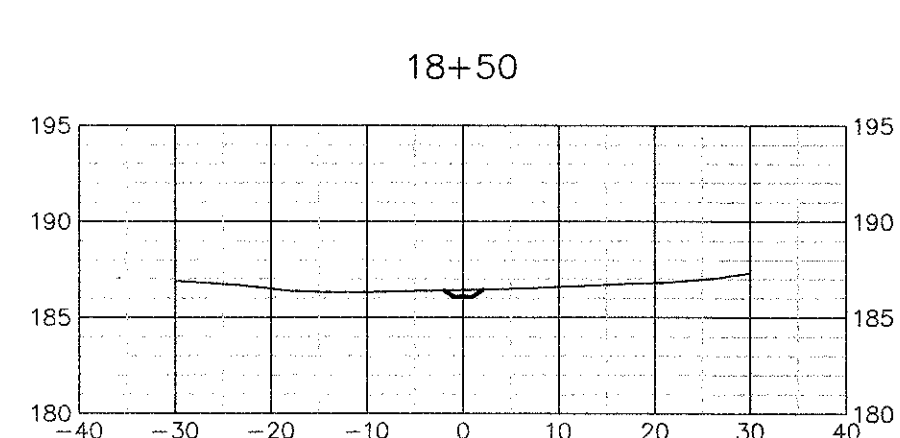
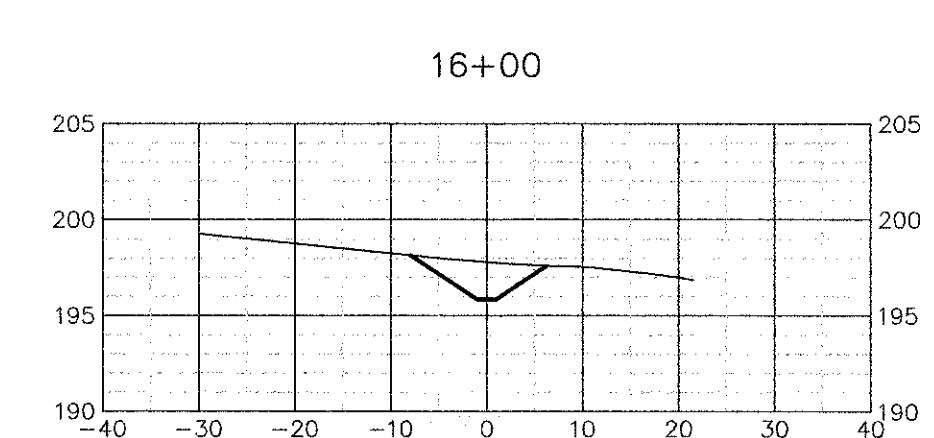
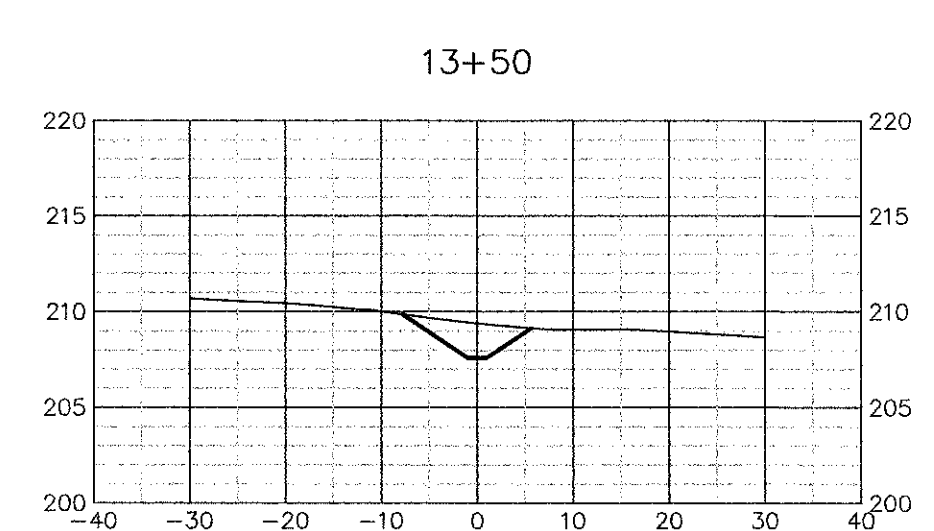
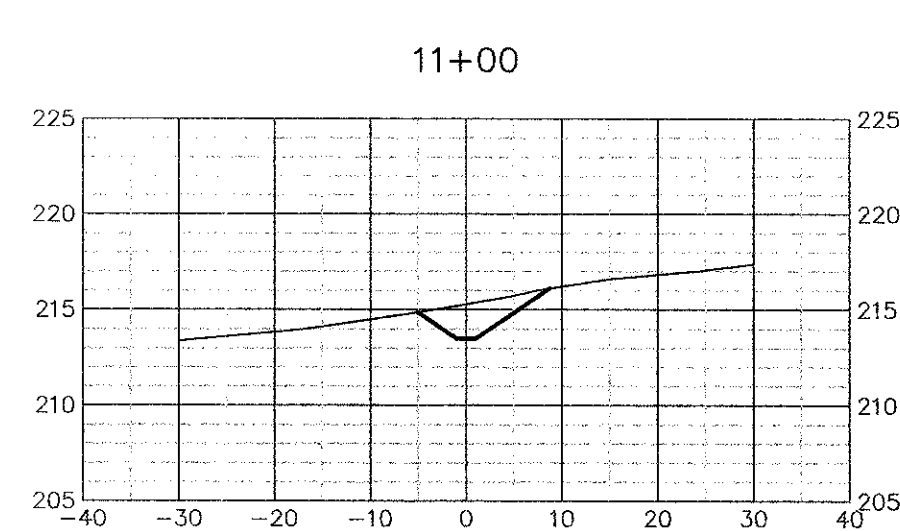
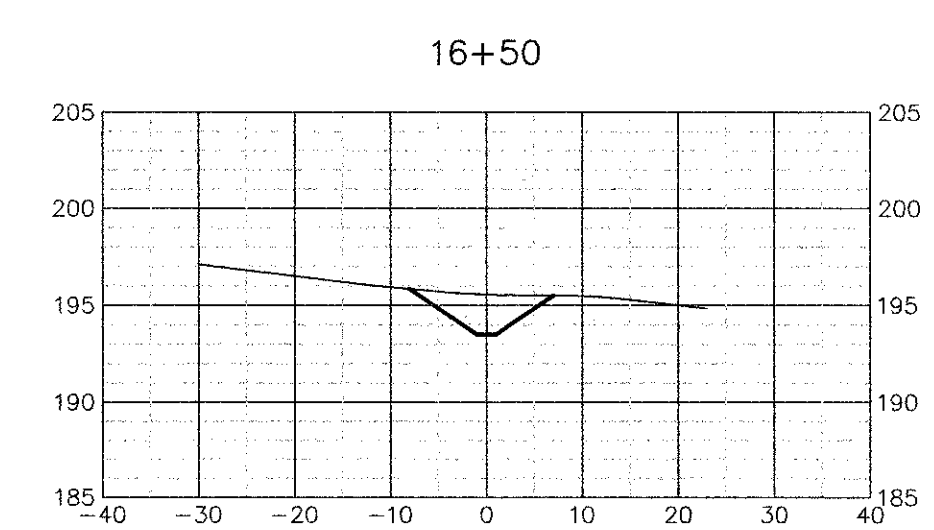
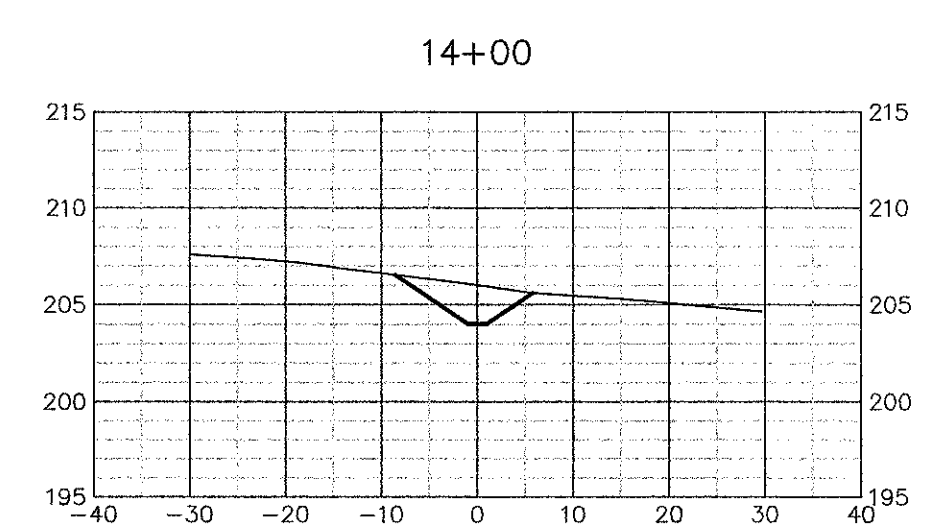
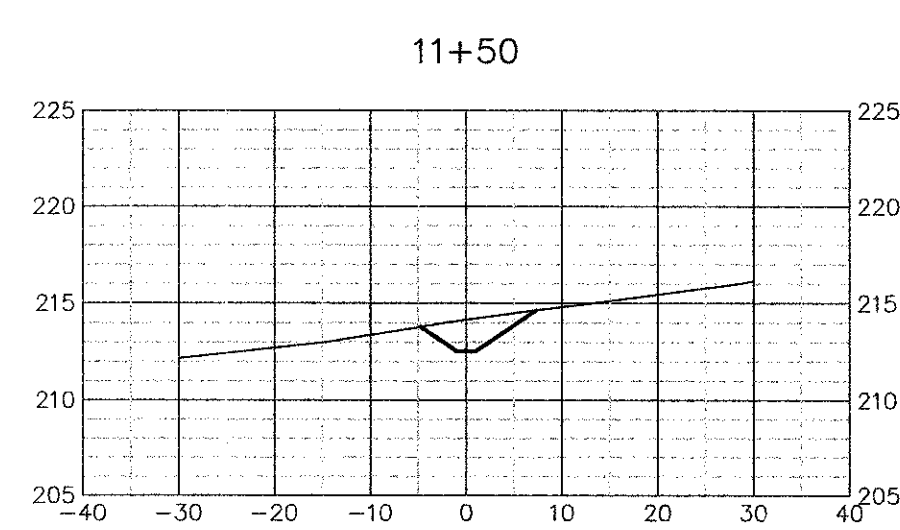
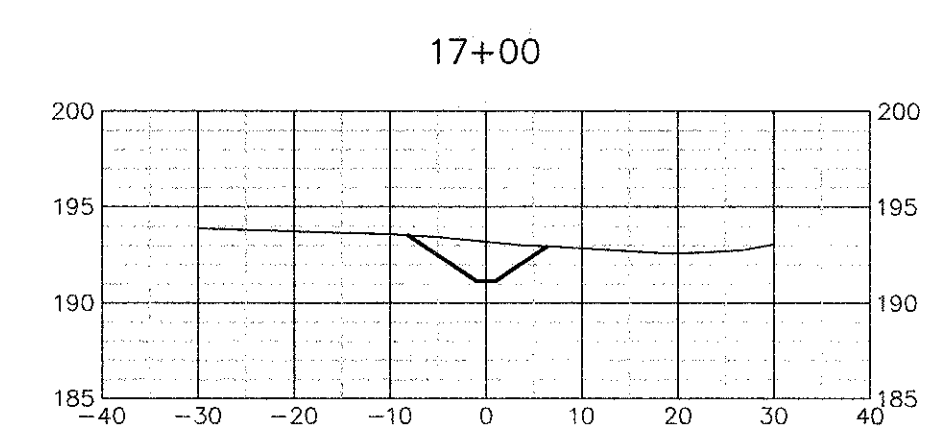
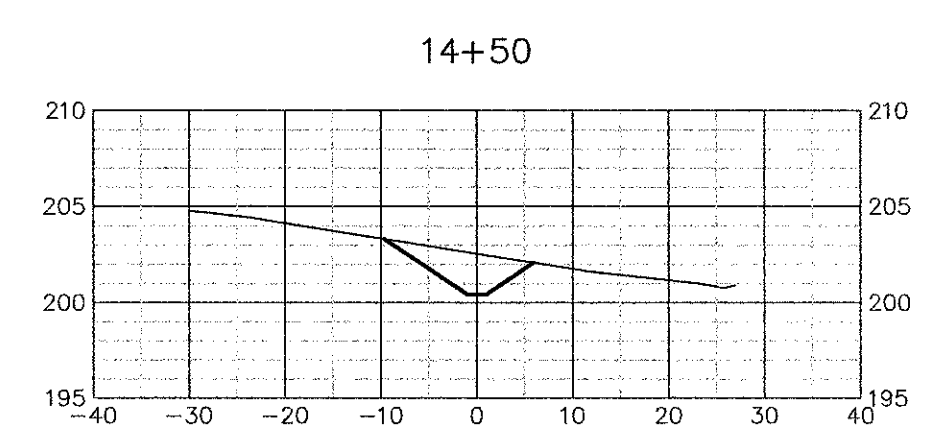
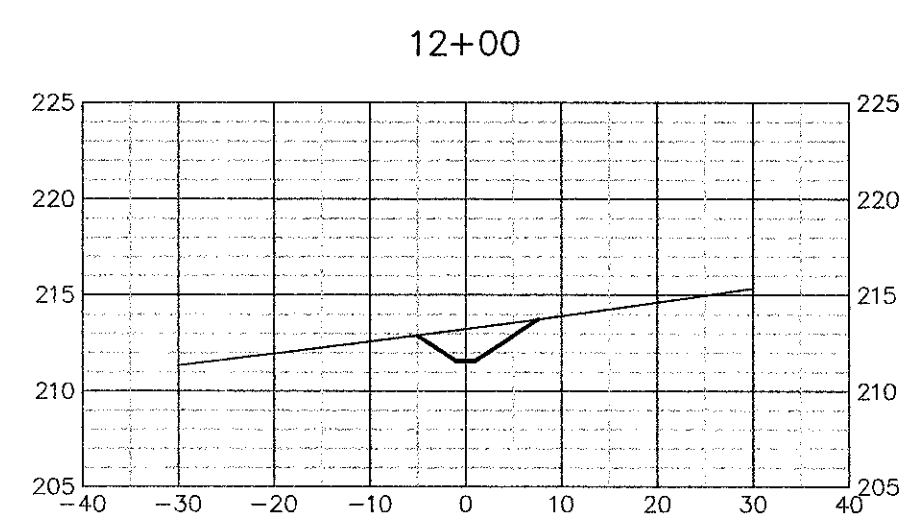
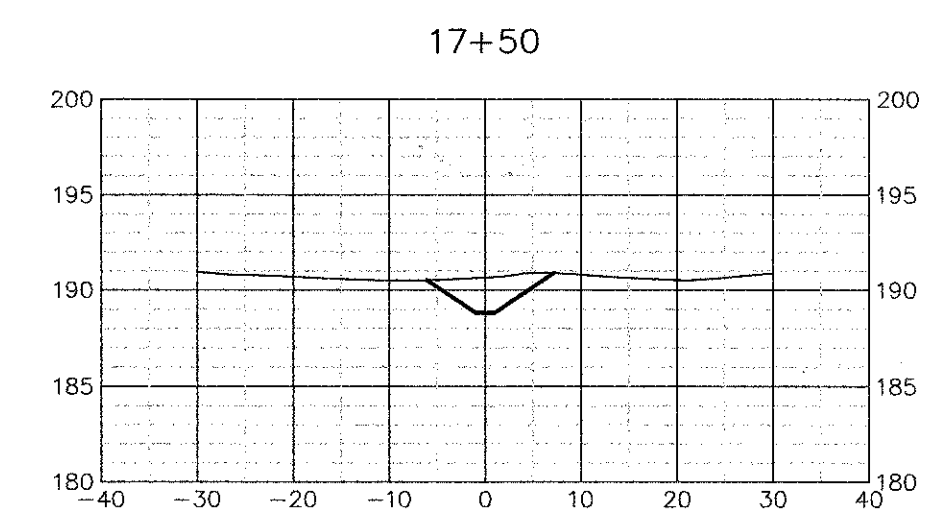
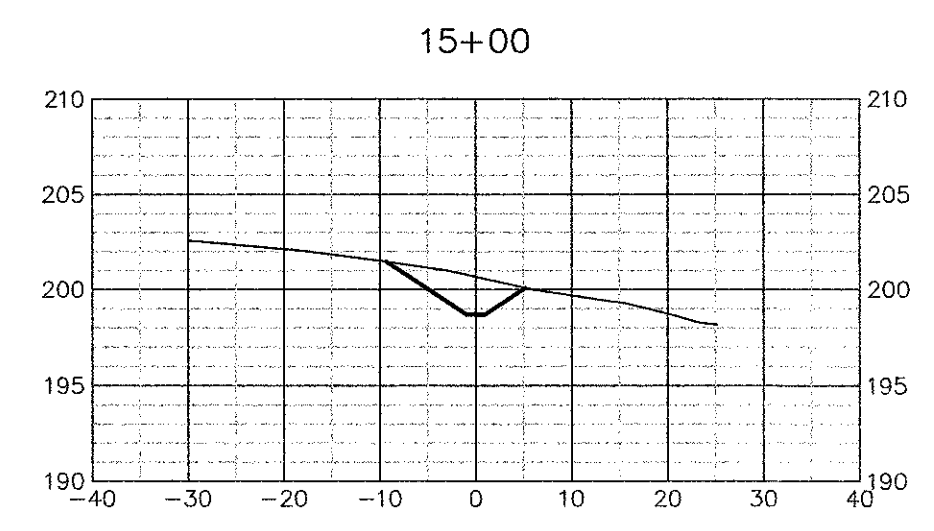
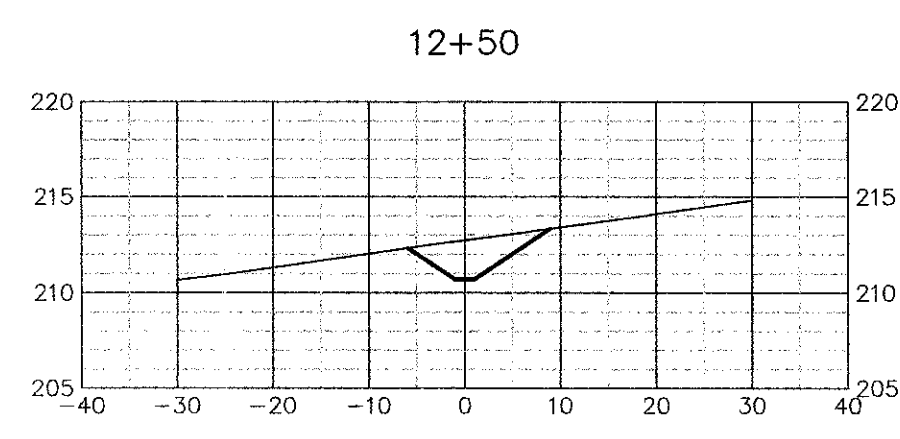
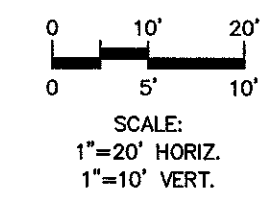
PROJECT  
 Killbourn Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1



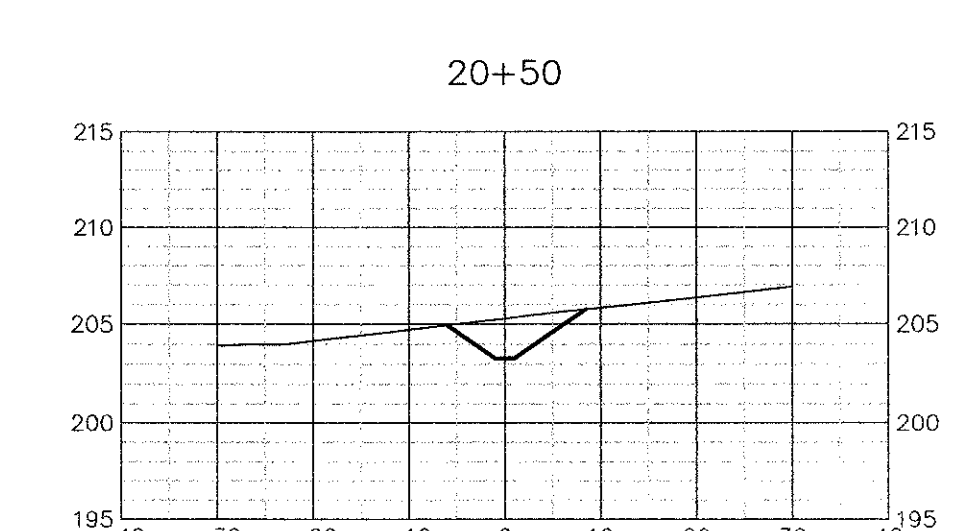
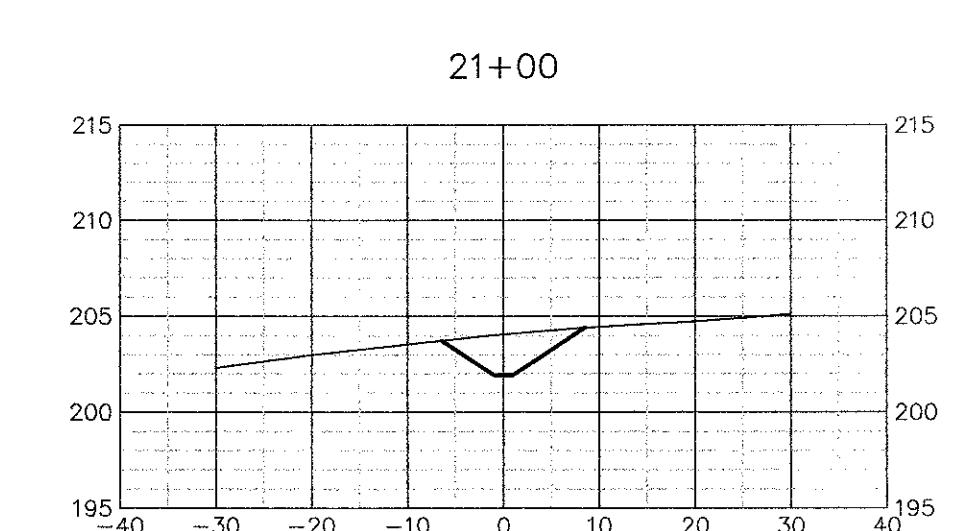
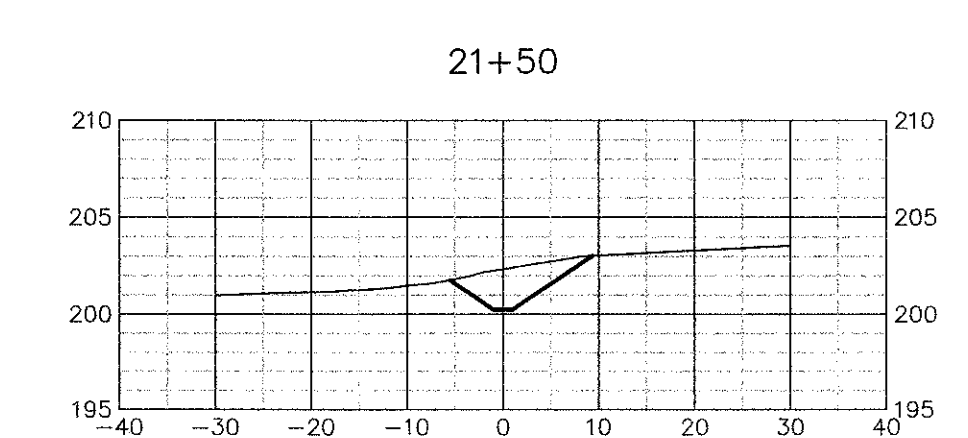
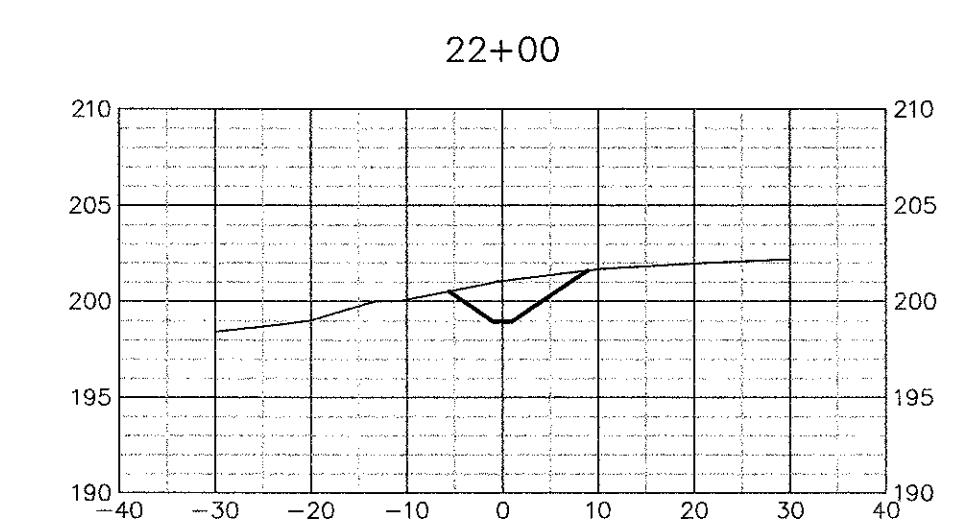
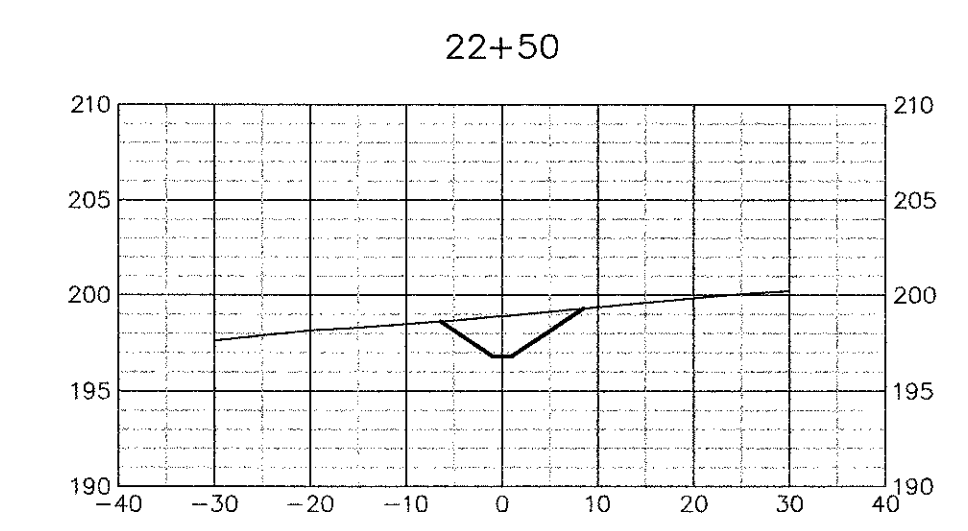
CLIENT  
 LEON  
 FLORIDA'S CAPITAL CITY

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

### Greenway U2-1 CROSS SECTIONS



### Greenway U2-2 CROSS SECTIONS



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JOB NO.	100014954
MIR	
DRAWN	GCB
DESIGNED	WKJ
CHECKED	OC
SHEET	225

WILLIAM K. JOHNSON  
P.E. NO. 41040

ORIGINAL	MAY 2012
REVISIONS:	
1	
2	
3	
4	
5	

TASK  
Greenways U2-1 & U2-2  
CROSS SECTIONS

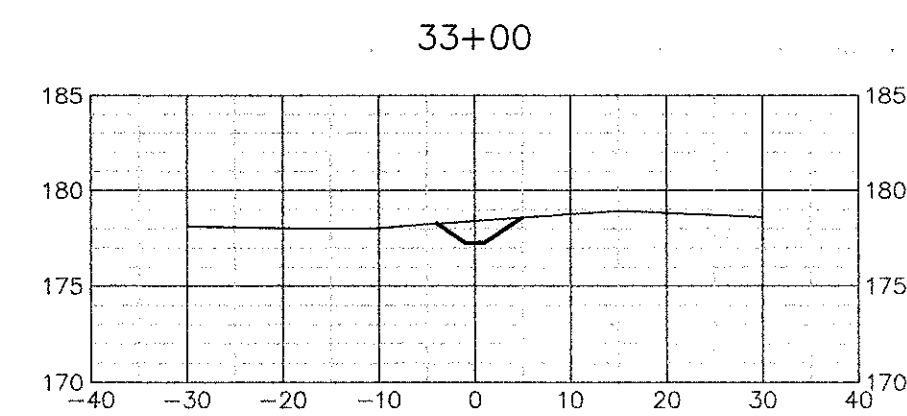
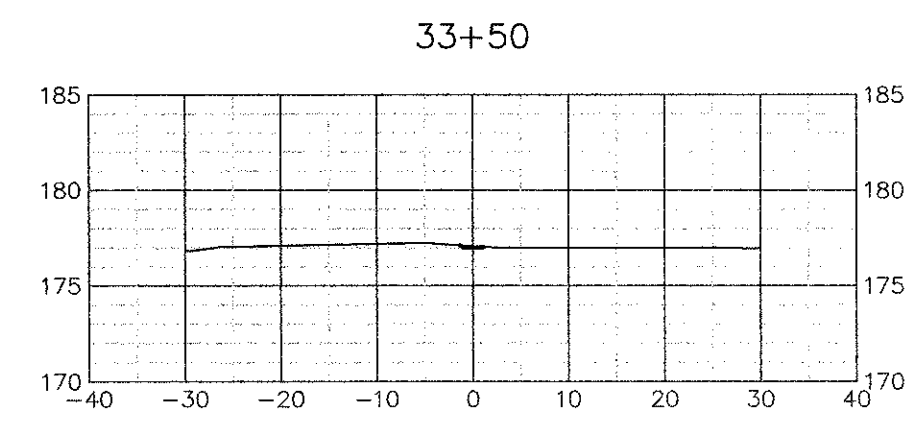
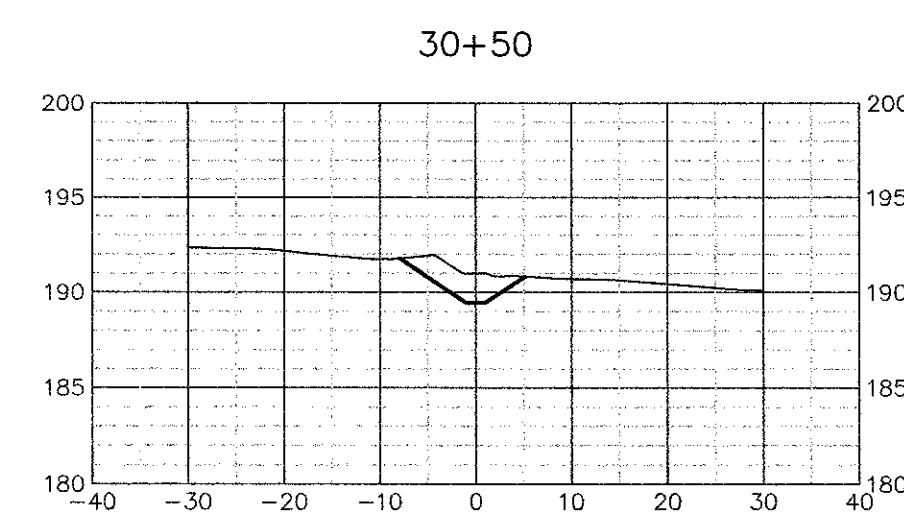
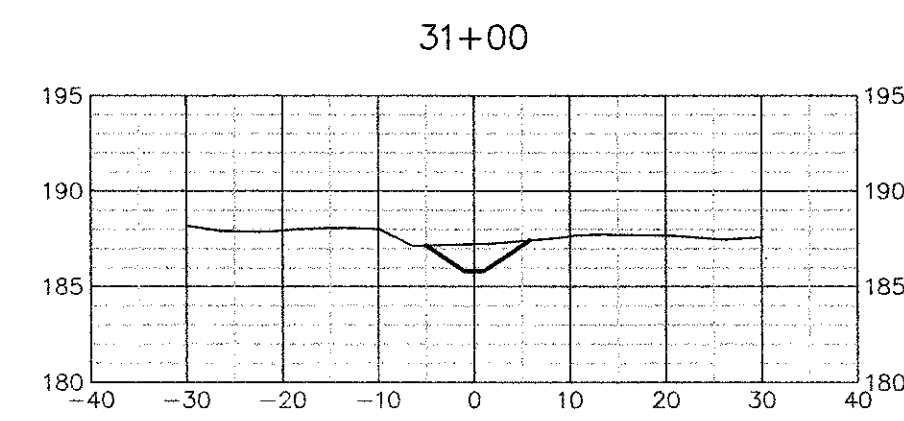
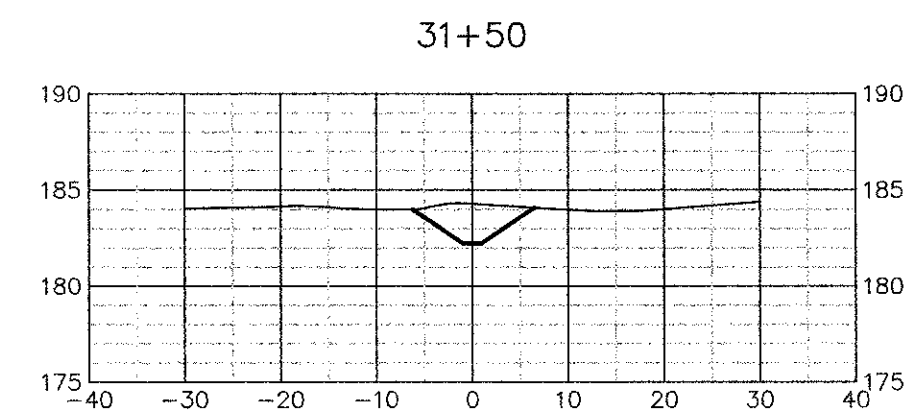
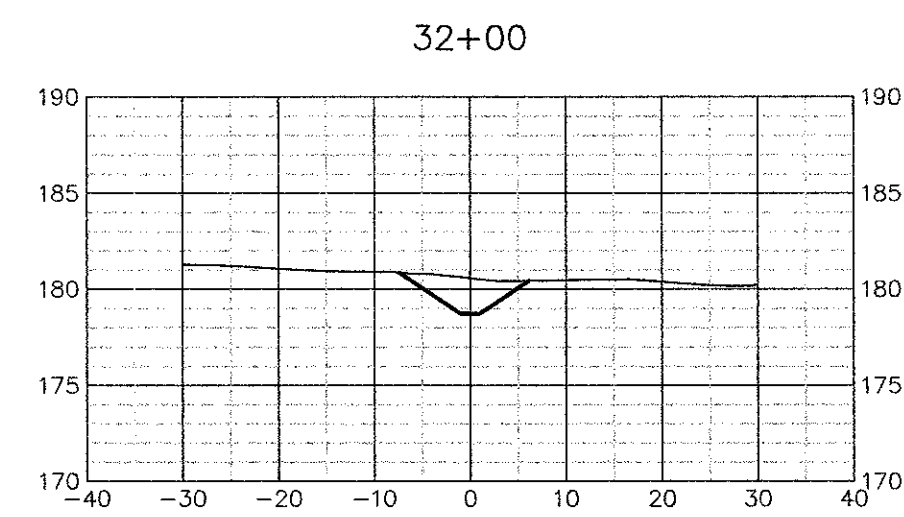
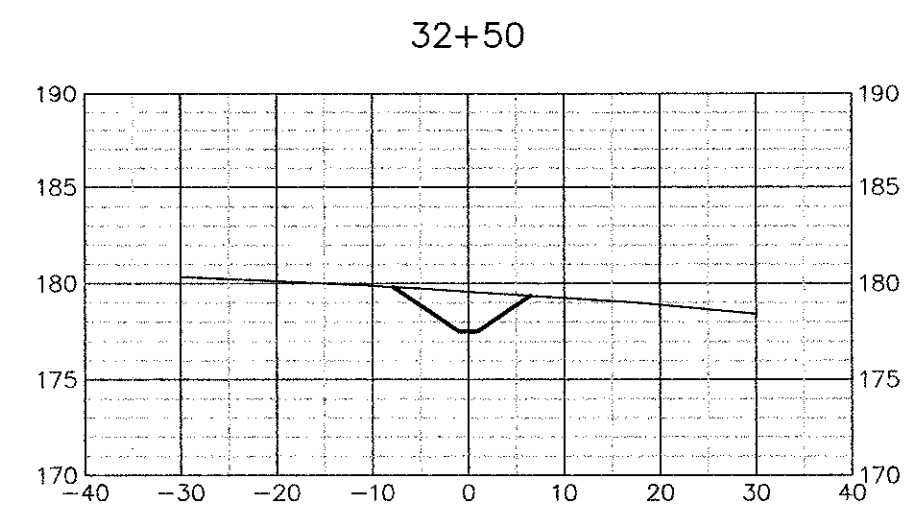
PROJECT  
Killbuck Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1



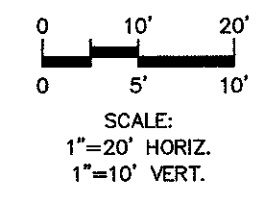
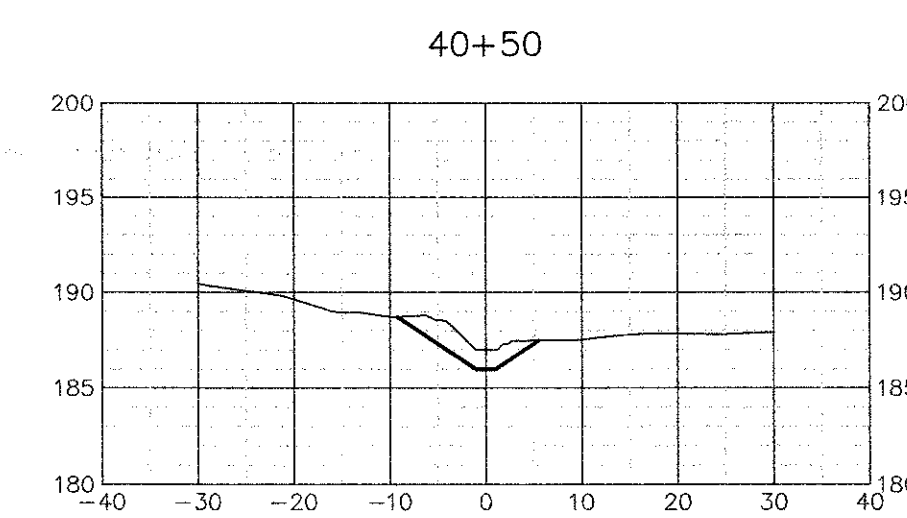
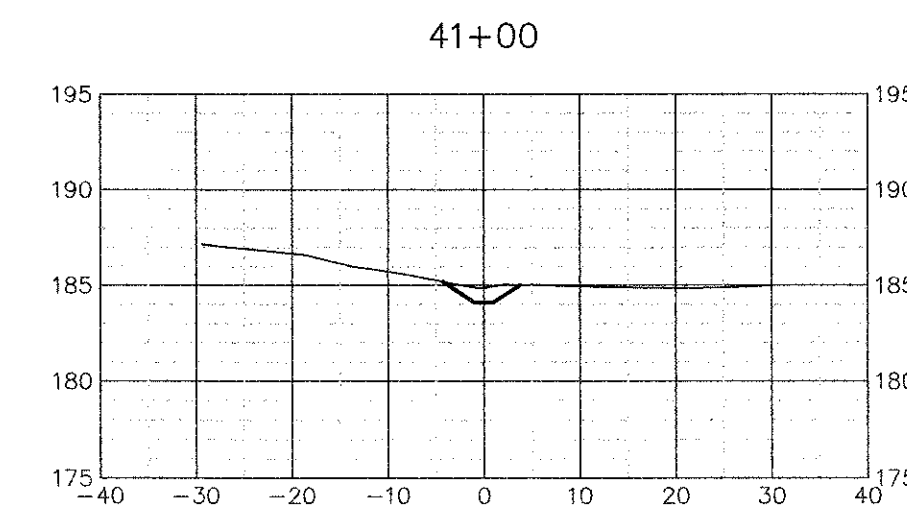
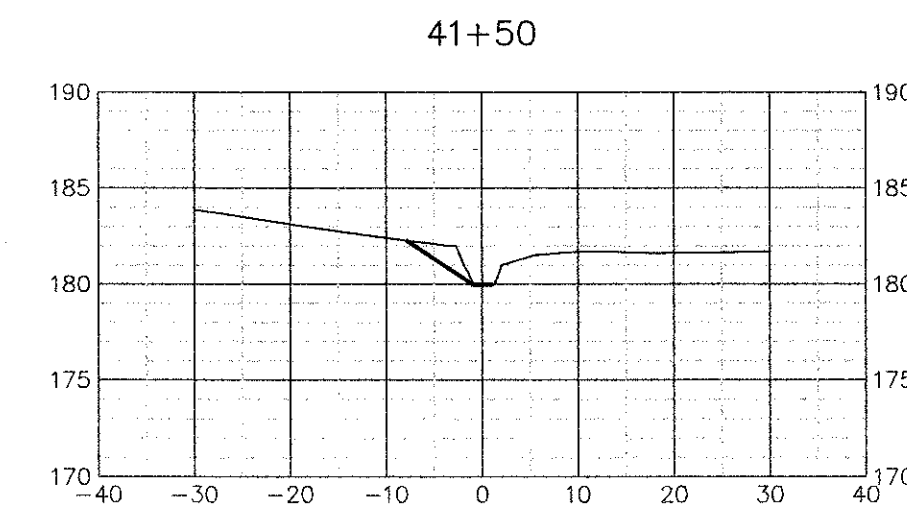
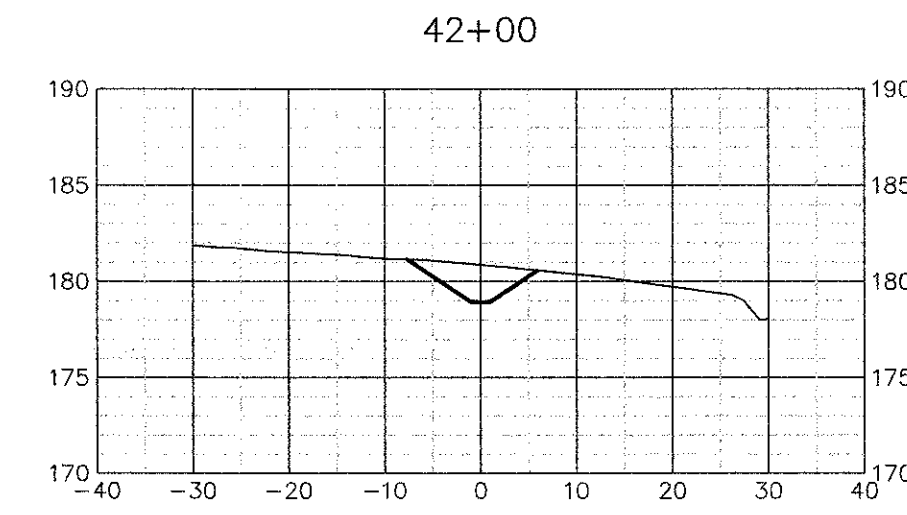
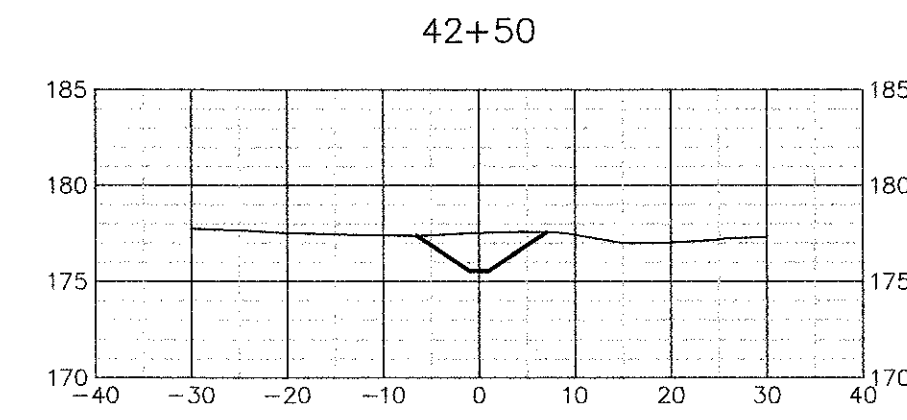
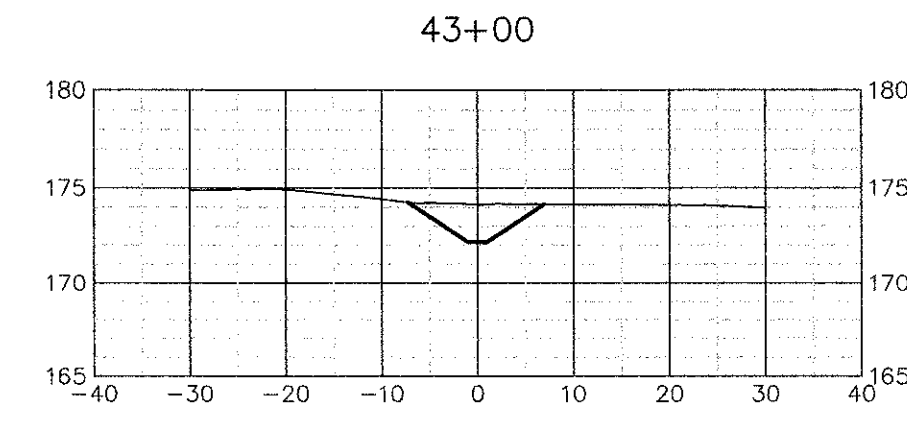
CLIENT

**ATKINS**  
2639 N. Monroe St., Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

**Greenway U2-3  
CROSS SECTIONS**



**Greenway U2-4  
CROSS SECTIONS**



H:\CIVIL\Killarn-Lakes-Stormwat-Greenways\Cds-Ph1\Bose-Unit-2.dwg 05/07/2012 02:14:42 PM

JOB NO. 100014954	MIR	
DRAWN	GCB	
DESIGNED	WKJ	
CHECKED	CC	
		SHEET 226

WILLIAM K. JOHNSON  
P.E. NO. 41040  
3/21/12  
*[Signature]*  
NOT VALID WITHOUT THIS SEAL

ORIGINAL	MAY 2012	
REVISIONS:		
1		
2		
3		
4		
5		

TASK  
**Greenways U2-3 & U2-4  
CROSS SECTIONS**

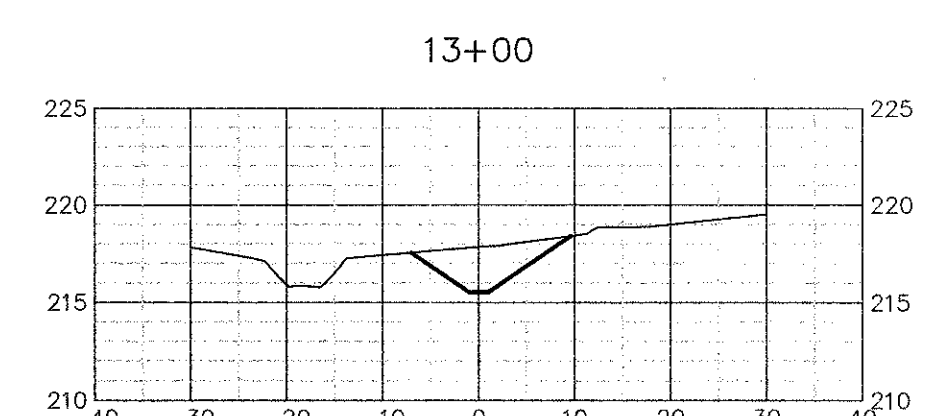
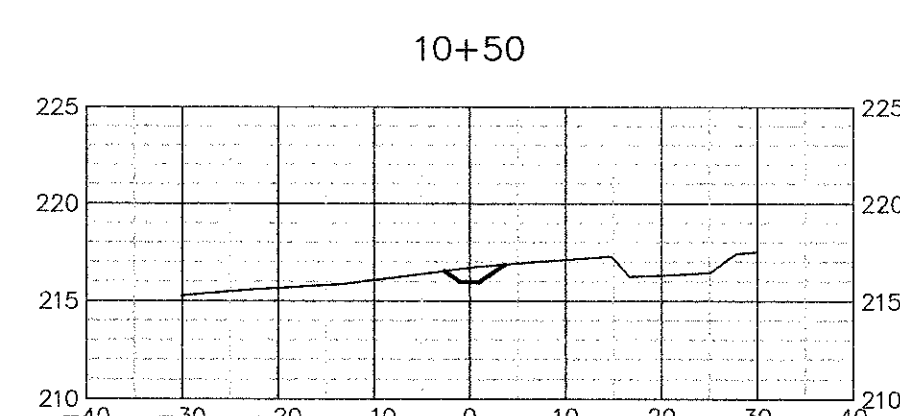
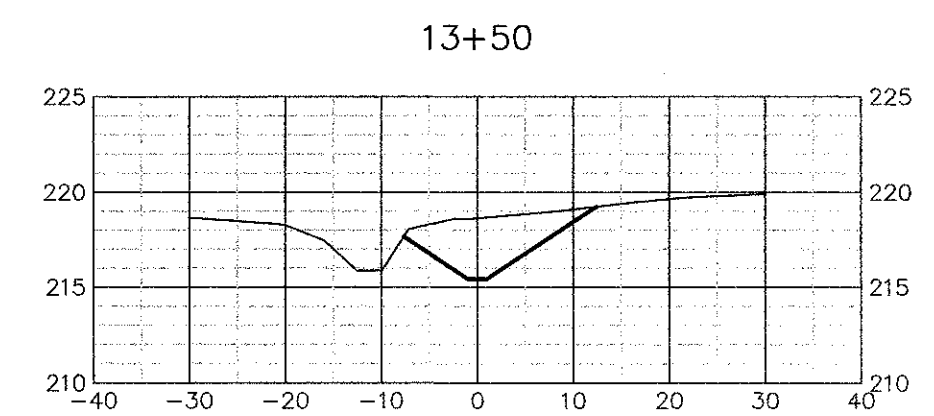
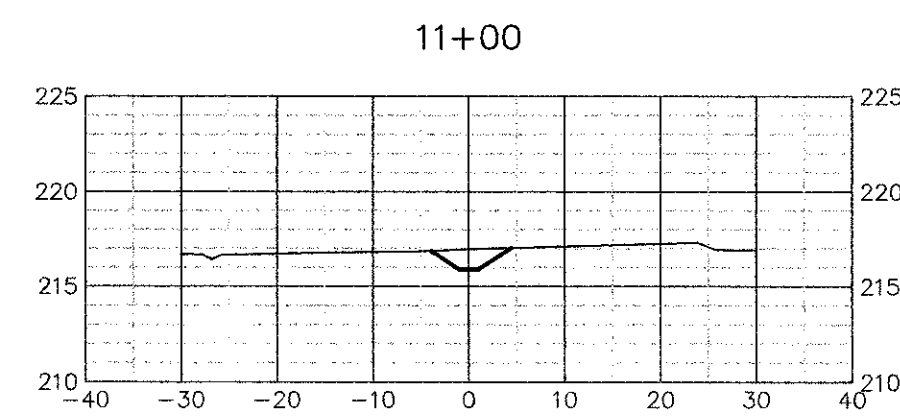
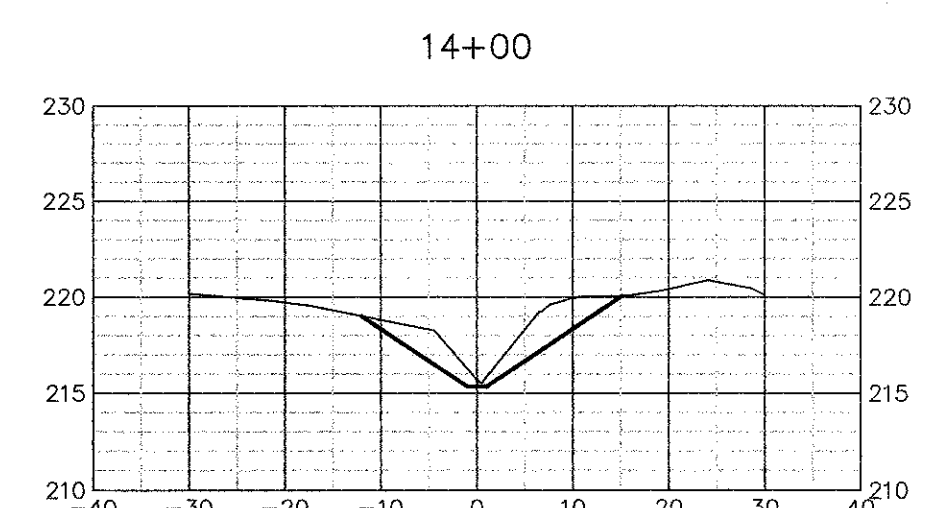
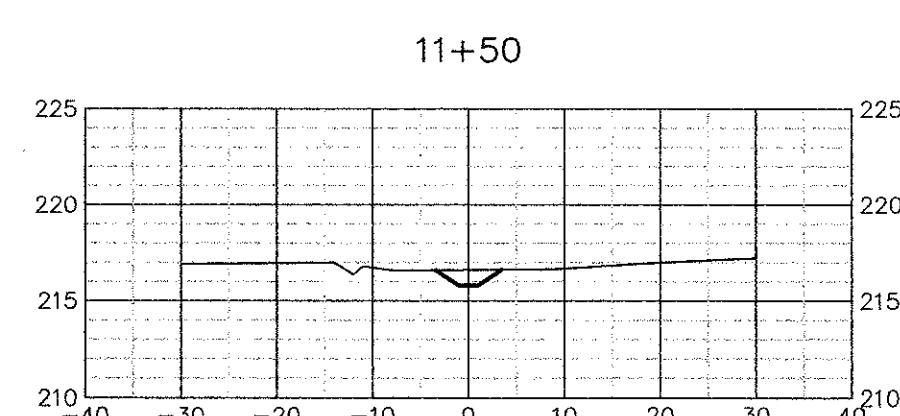
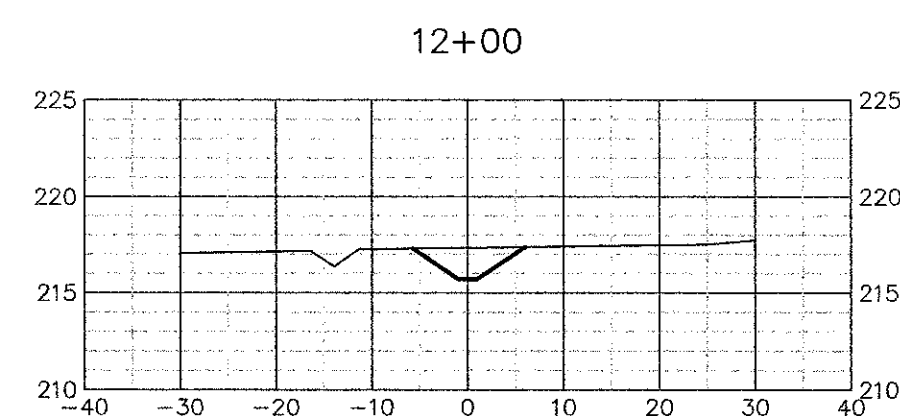
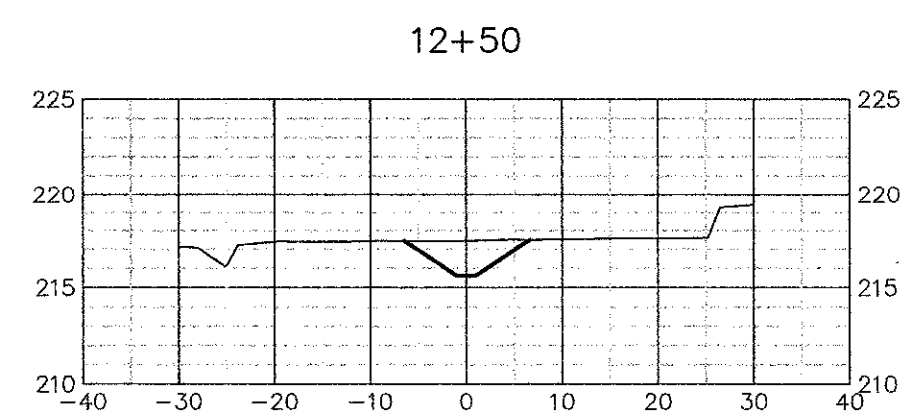
PROJECT  
**Killarn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



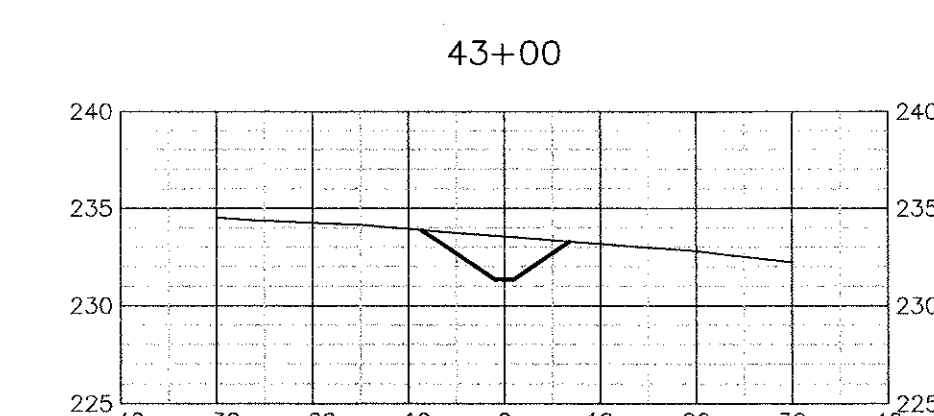
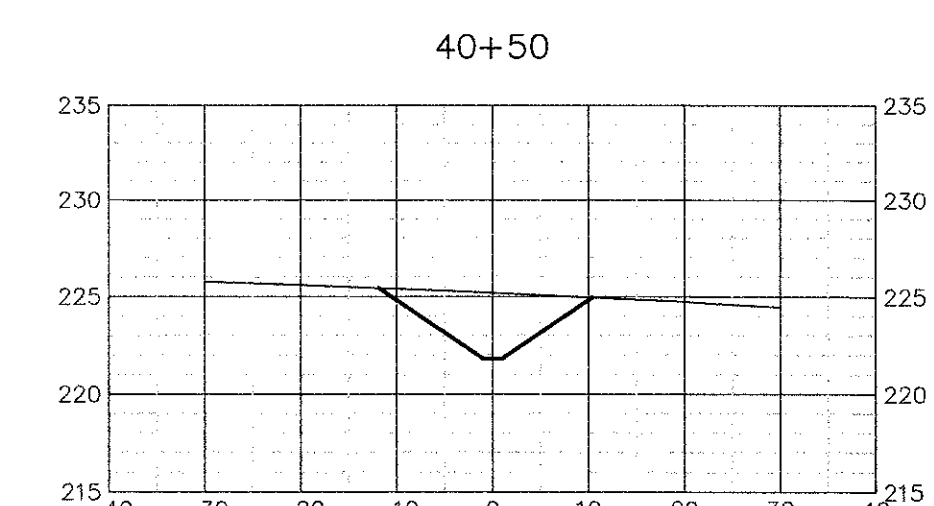
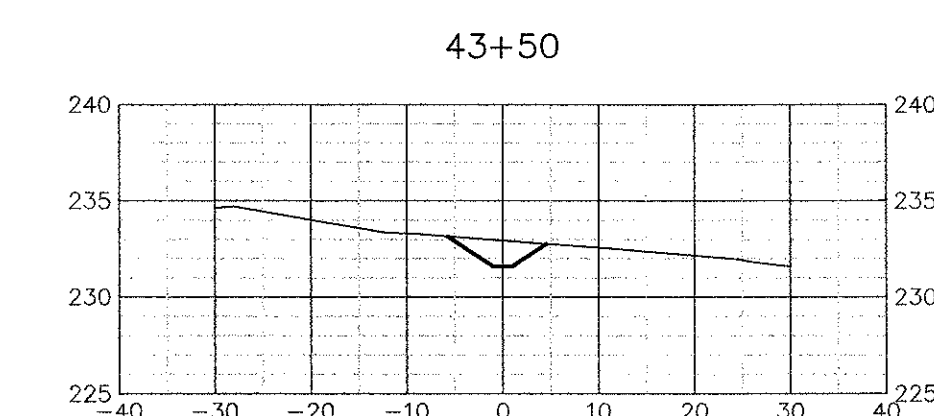
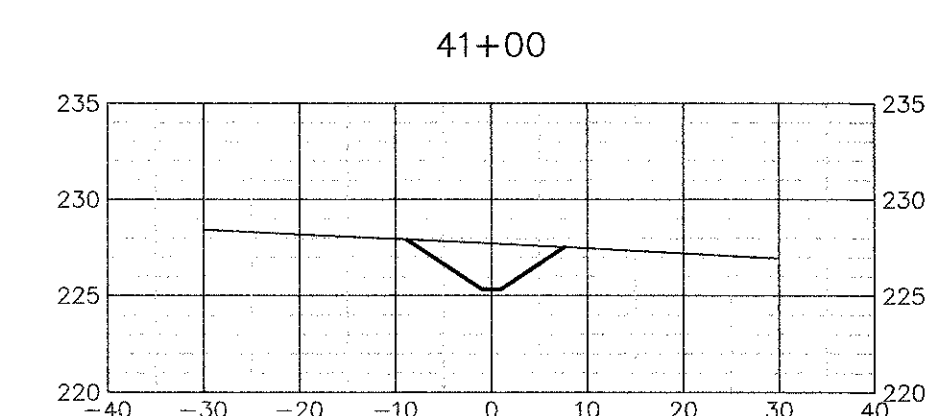
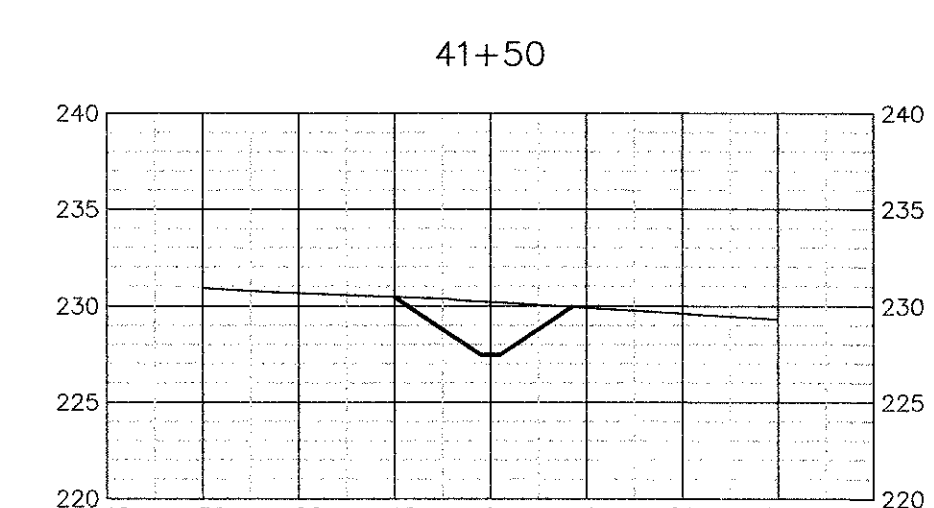
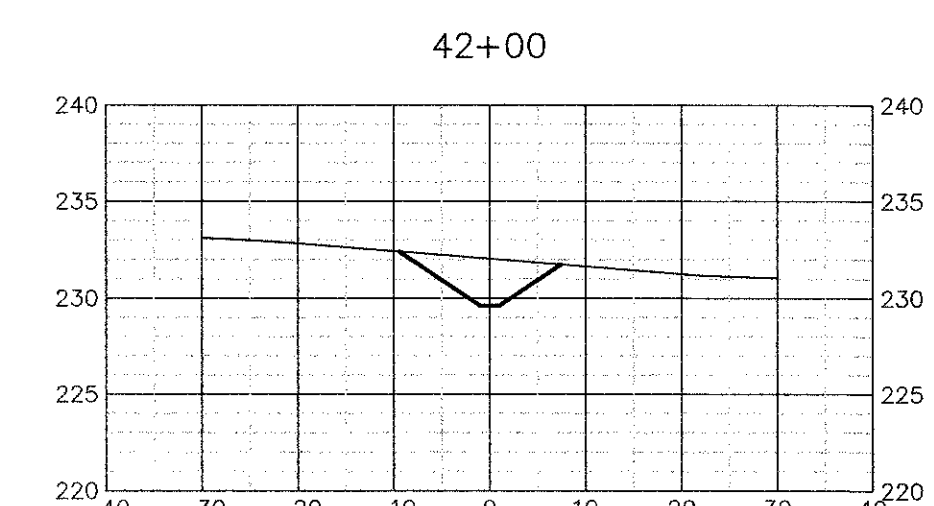
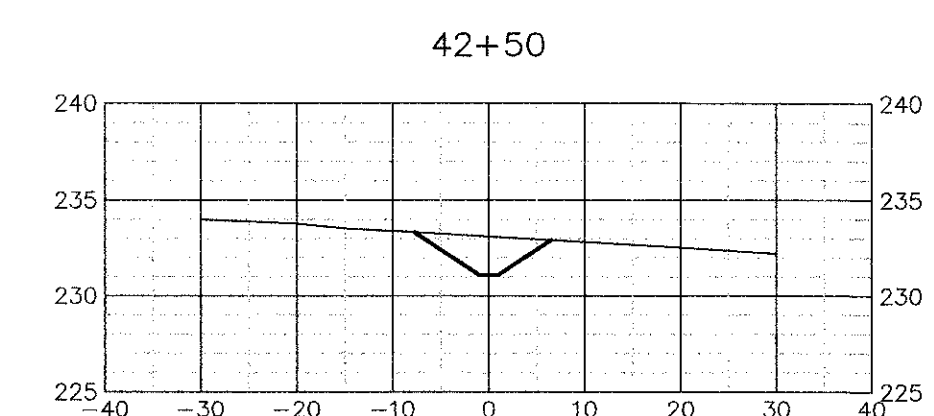
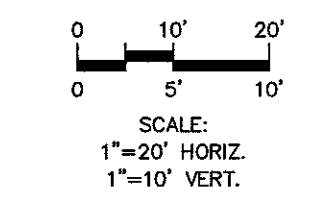
CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
904.575.1800  
FBPR Certificate of Authorization No. 24

Greenway U2-5  
CROSS SECTIONS



Greenway U2-7  
CROSS SECTIONS



H:\CIVIL\Killiam-Lakes-Srmwat-Greenways\Cds-Ph1\Base-Unit-2.dwg 05/07/2012 02:15:10 PM

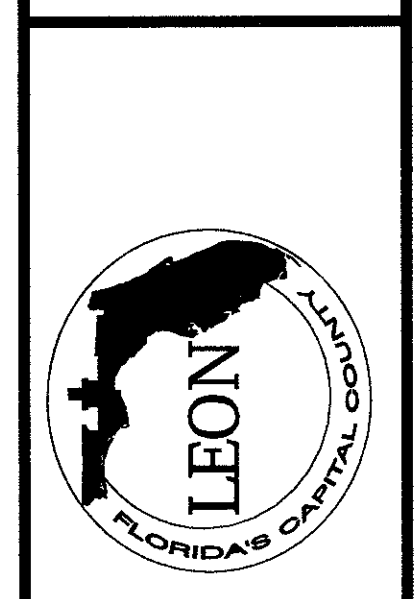
JOB NO.	100014954
DRAWN	MR
DESIGNED	GCB
CHECKED	WKJ
QC	QC

WILLIAM K. JOHNSON  
P.E. NO. 41040  
3/13/12  
30-13333  
NOT VALID FOR CONSTRUCTION  
UNLESS SIGNED BY THIS BLOCK

ORIGINAL	MAY 2012
REVISIONS:	
1	
2	
3	
4	
5	

TASK  
Greenways U2-5 & U2-7  
CROSS SECTIONS

PROJECT  
Killiam Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1

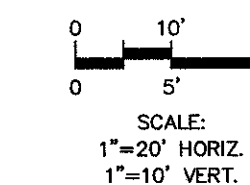


CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

SHEET 227

# Greenway U2-6 CROSS SECTIONS



JOB NO. 100014954  
 DRAWN MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 CC  
 SHEET 228

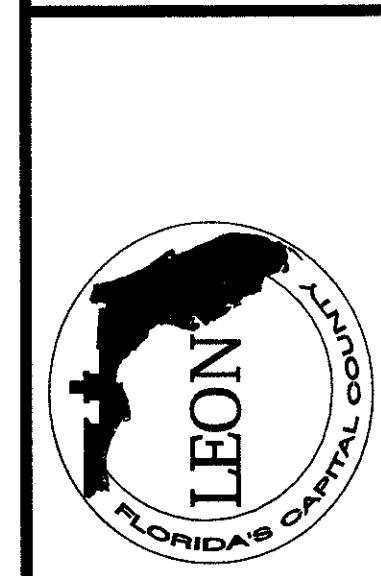
WILLIAM K. JOHNSON  
 P.E. NO. 40049  
 303.333.3333  
 [Signature]  
 NOT VALID FOR OTHER PROJECTS  
 UNLESS SIGNED BY THIS ENGINEER

ORIGINAL: JULY, 2012

REVISIONS:	1	2	3	4	5

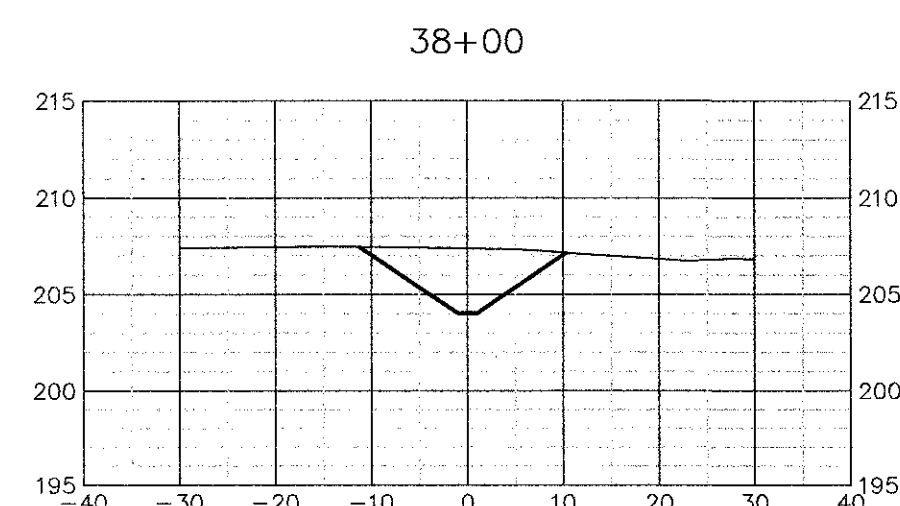
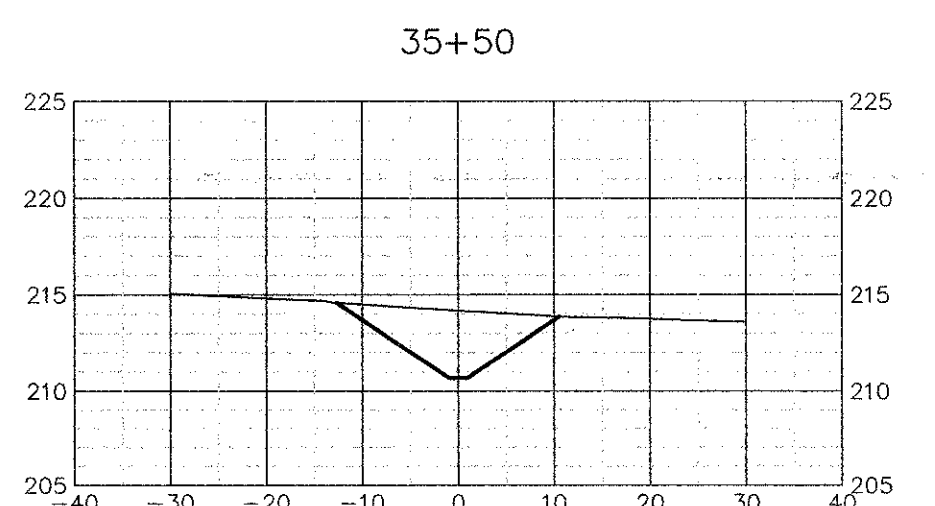
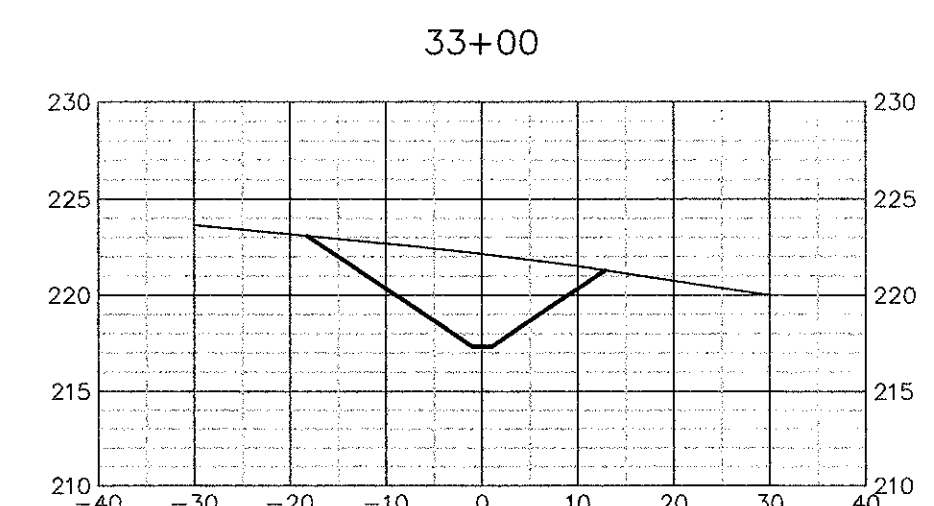
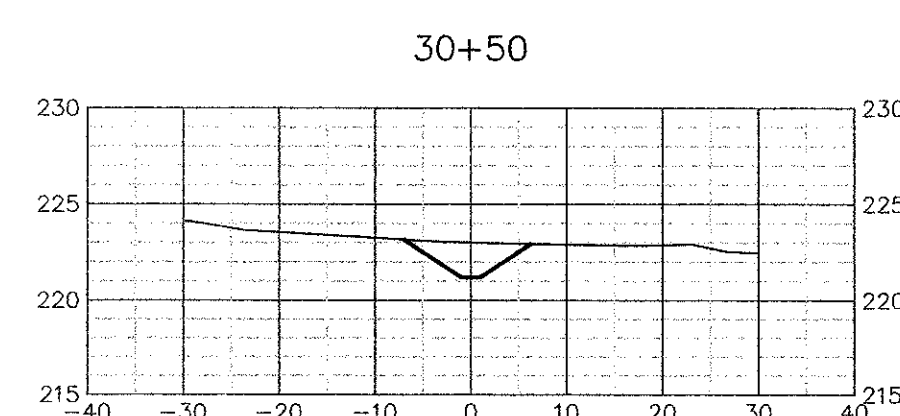
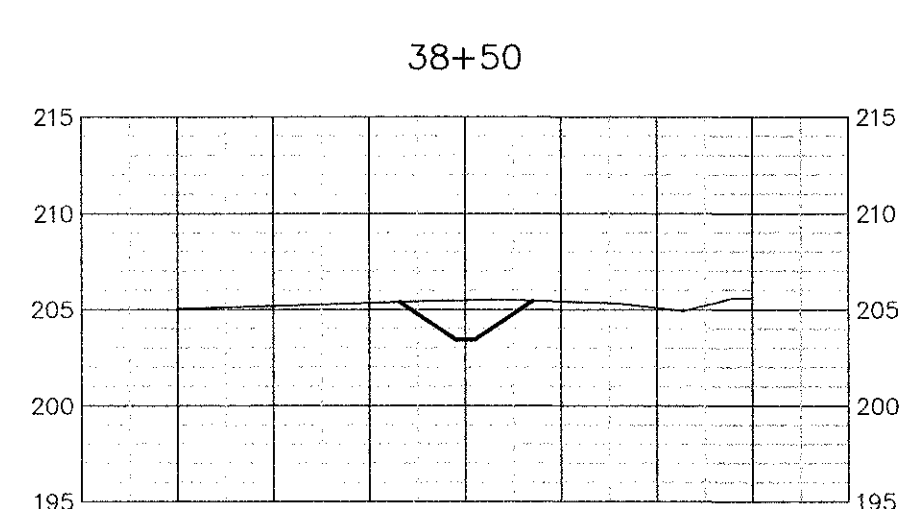
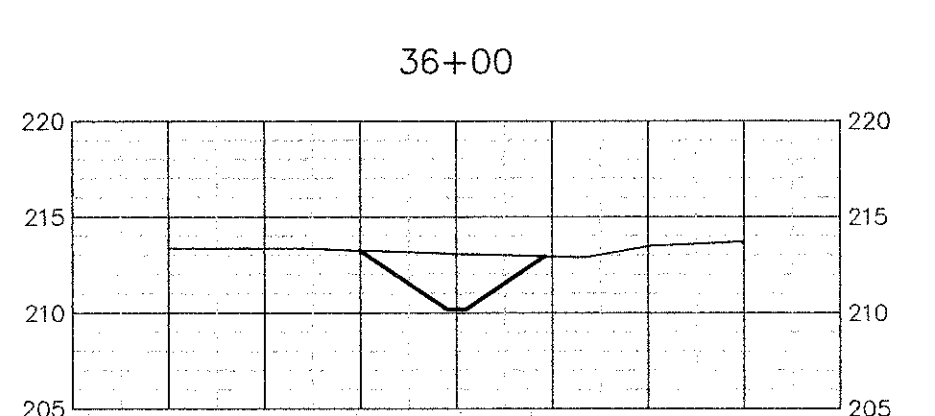
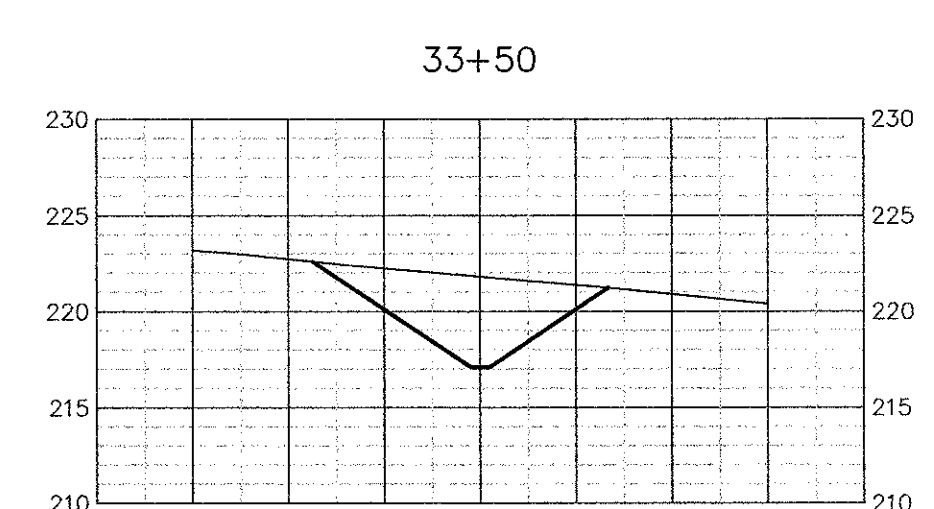
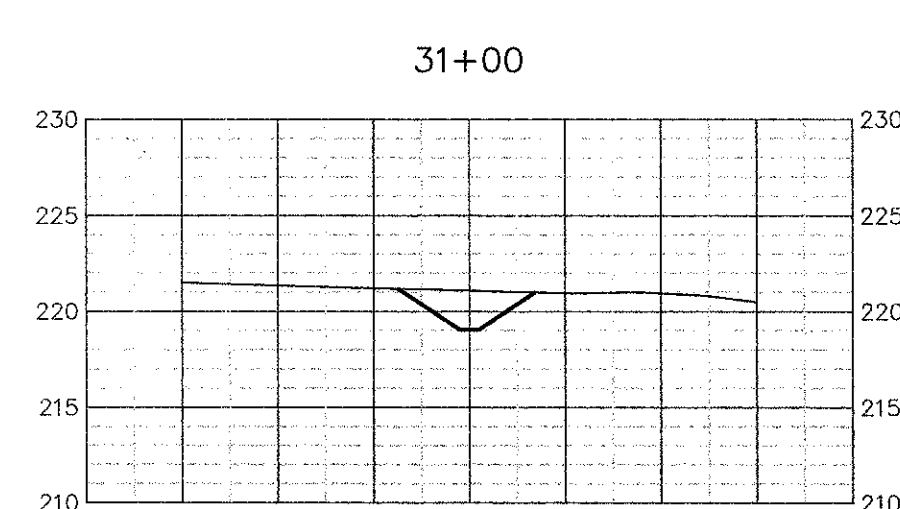
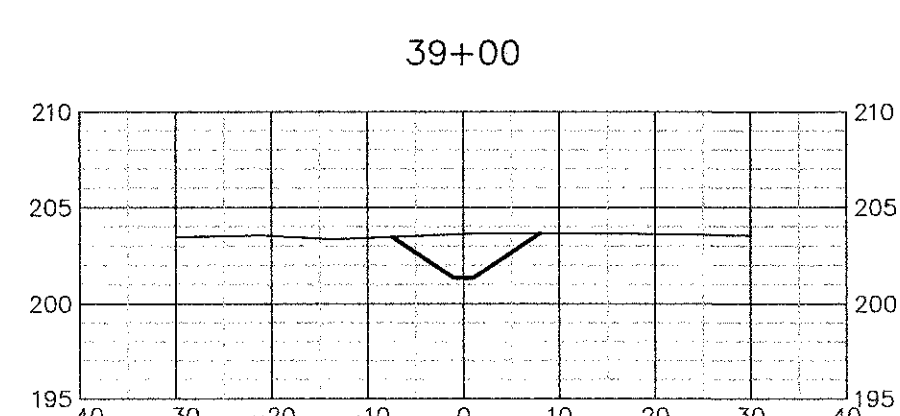
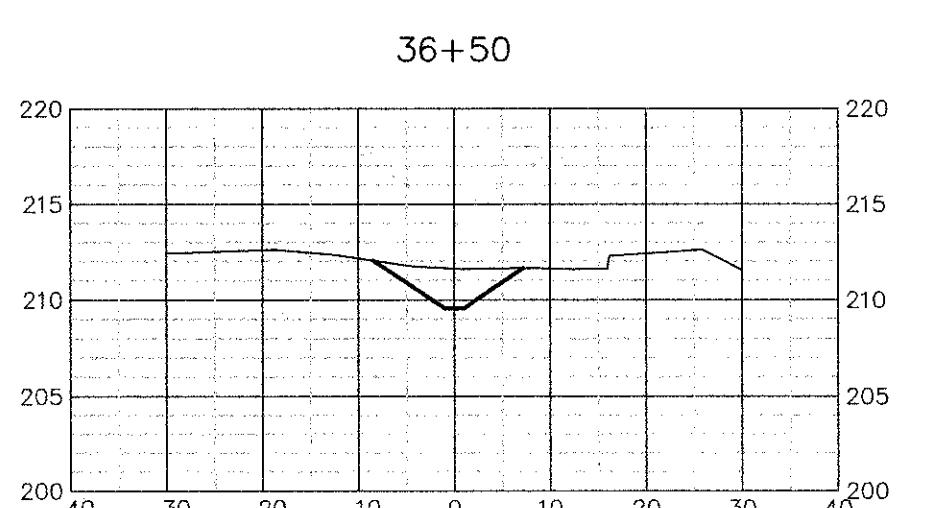
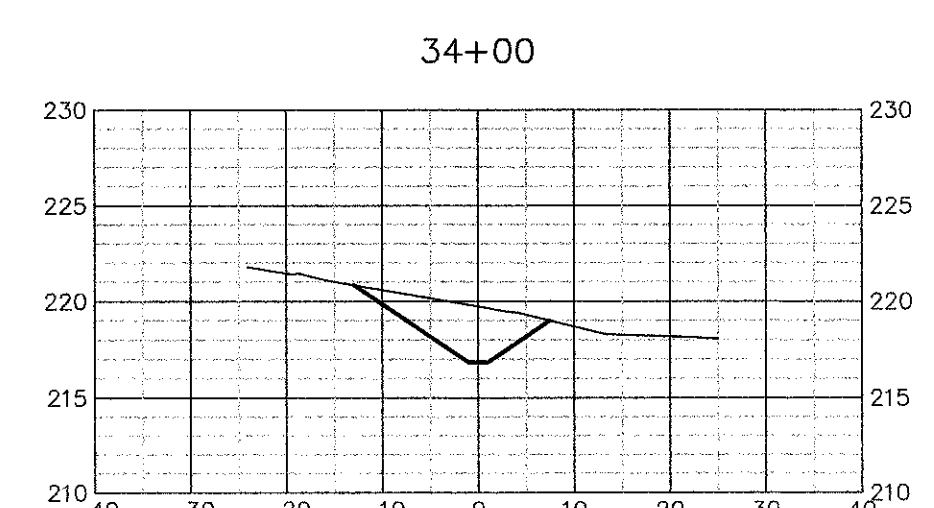
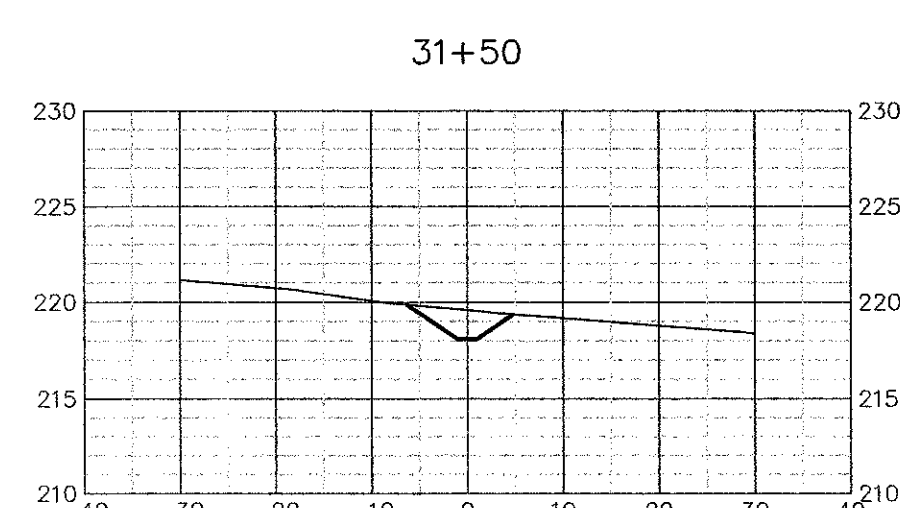
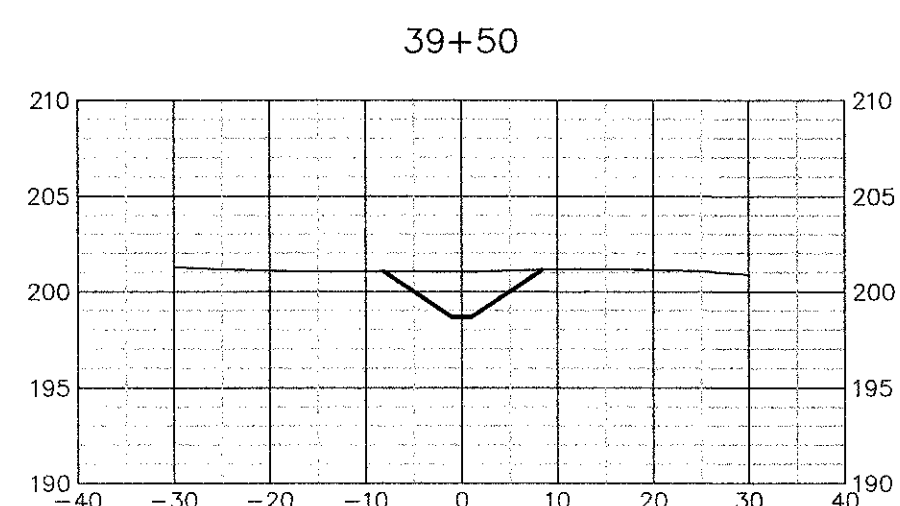
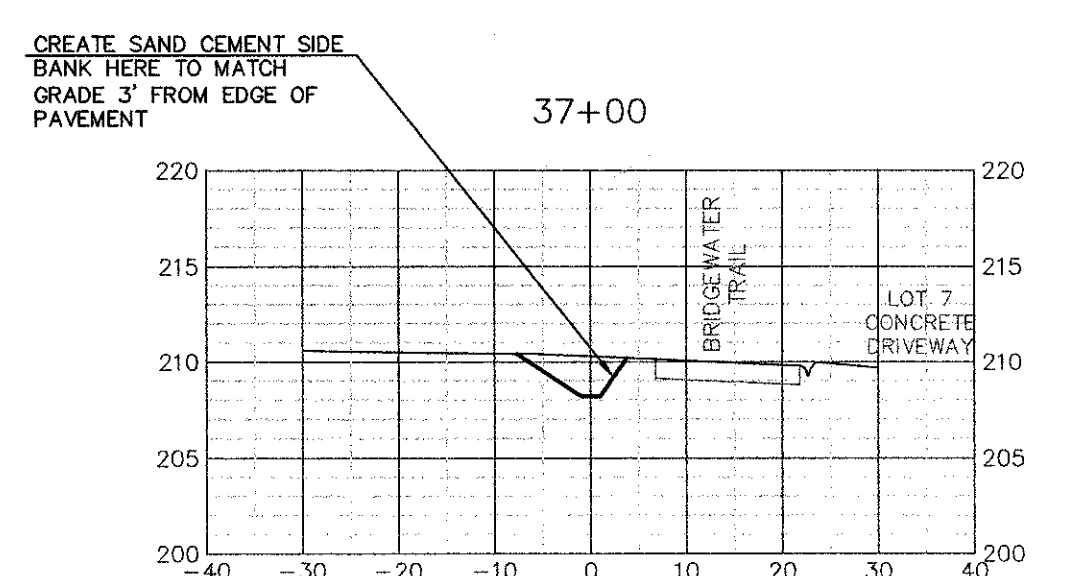
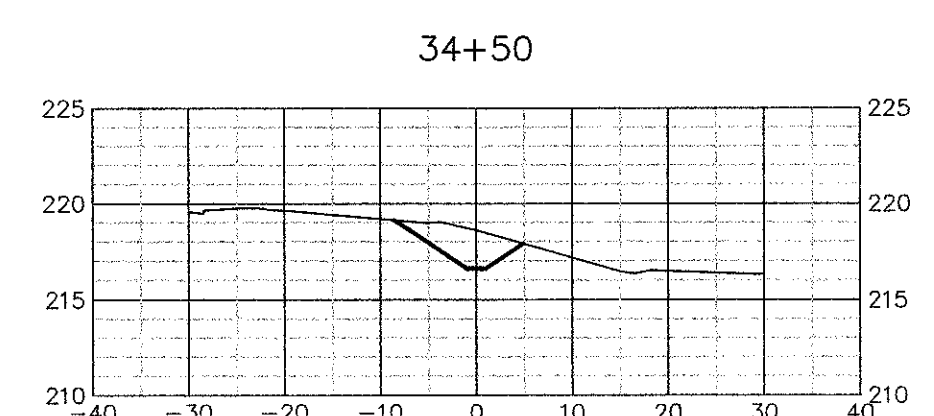
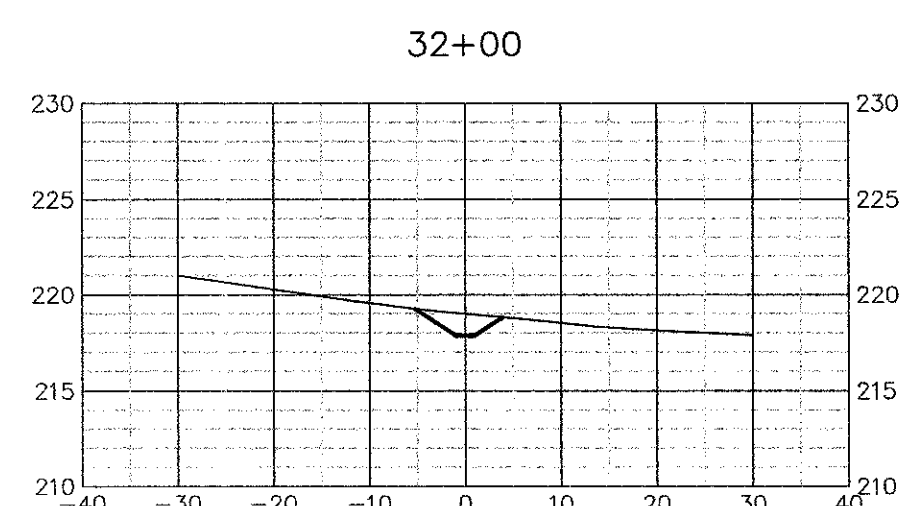
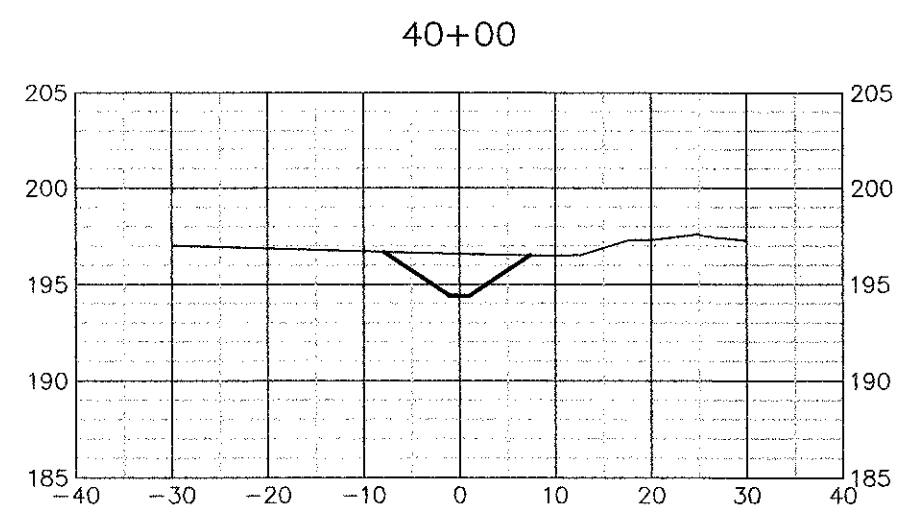
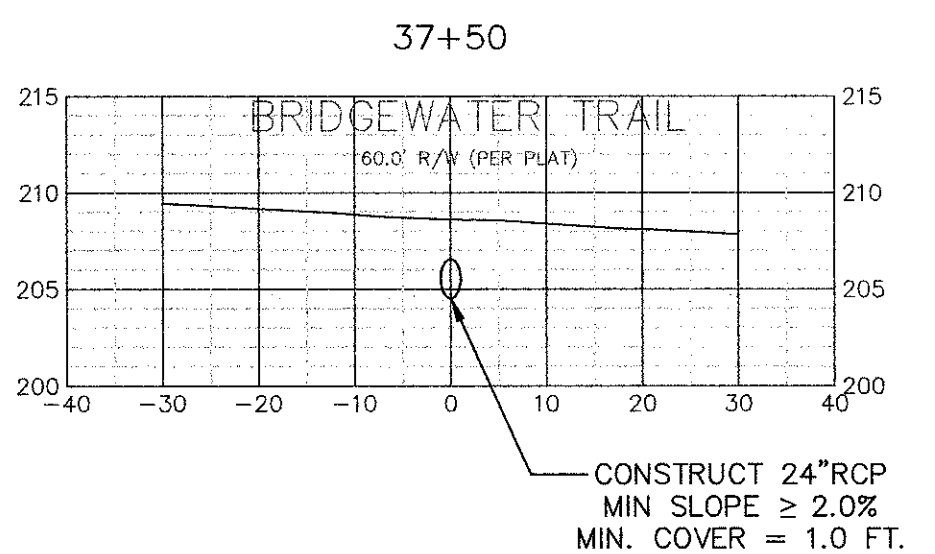
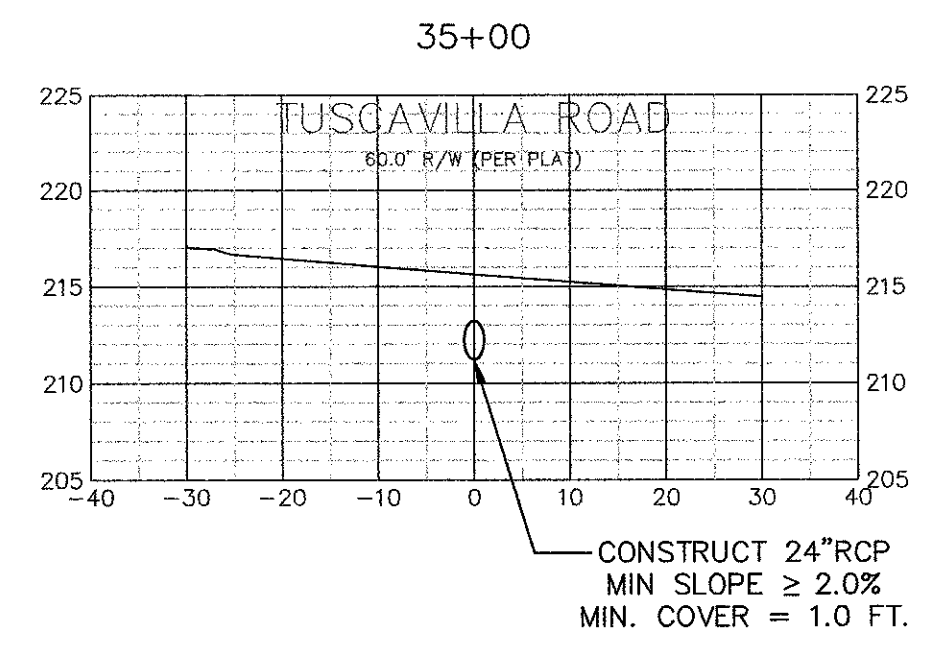
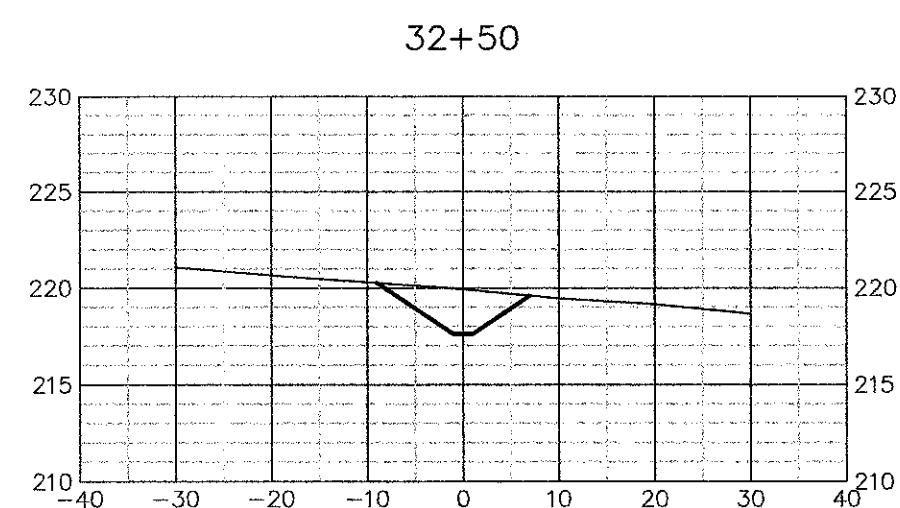
TASK  
**Greenway U2-6  
 CROSS SECTIONS**

PROJECT  
**Killearn Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

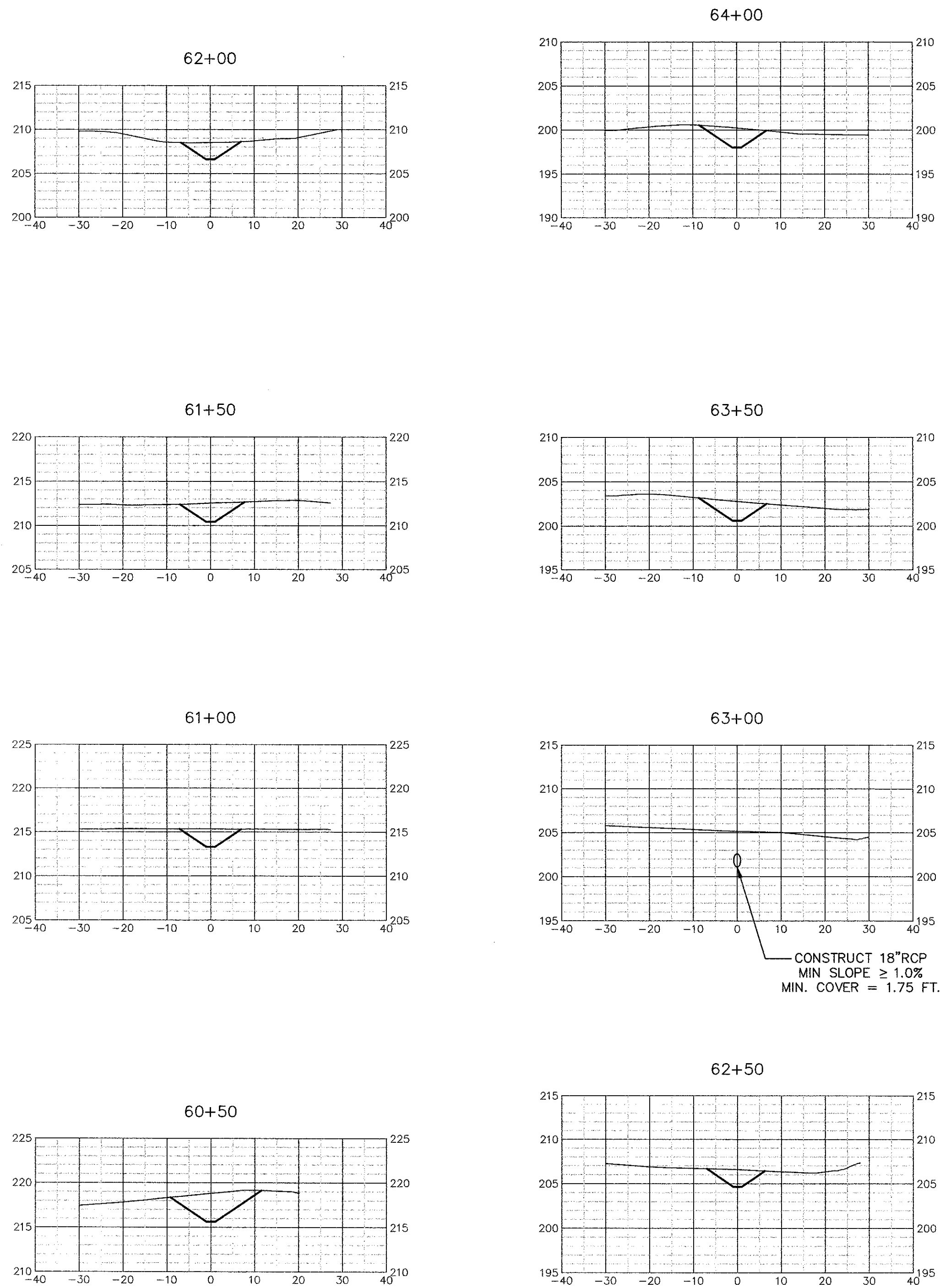


CLIENT

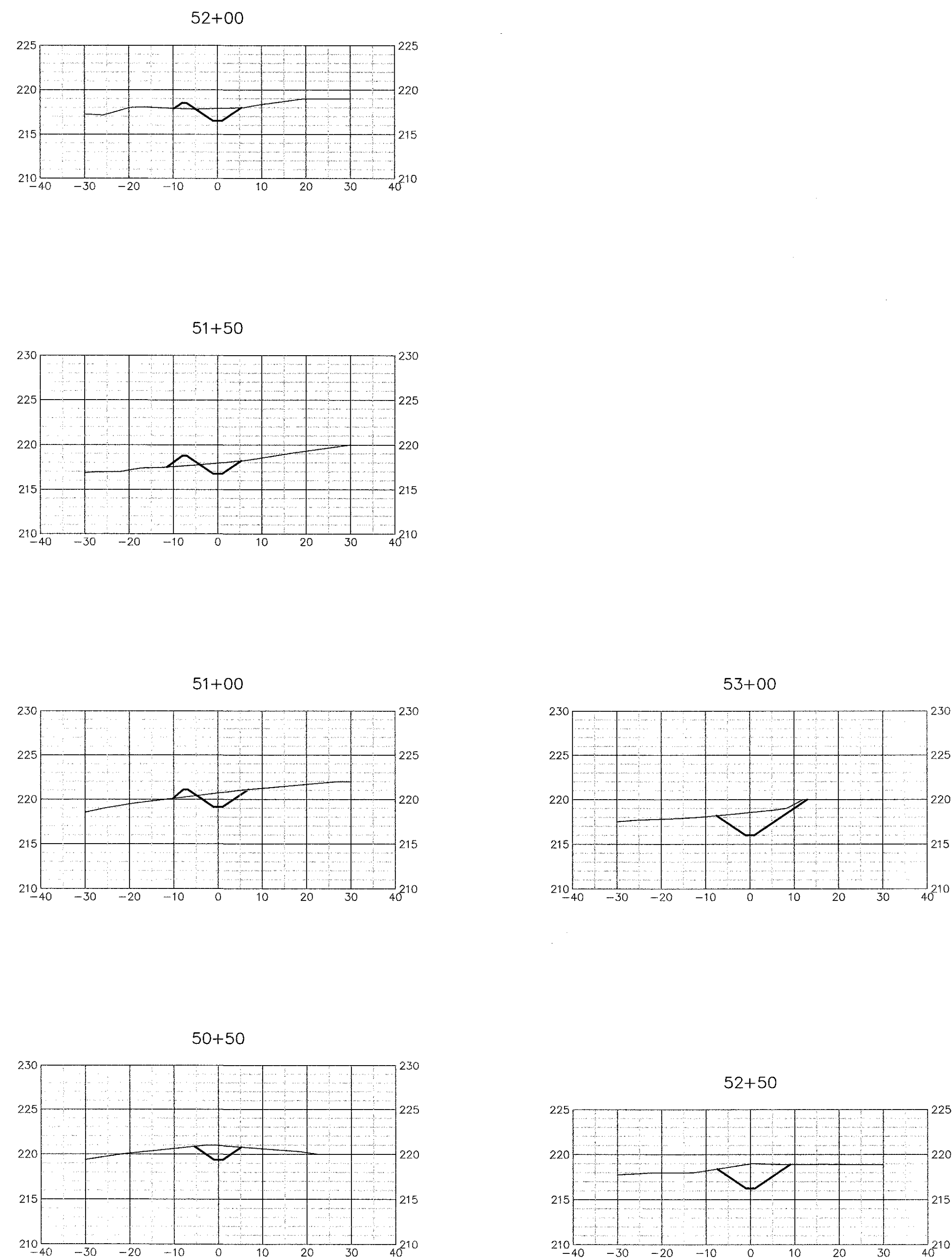
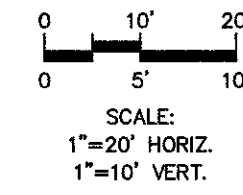
**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FPRP Certificate of Authorization No. 24



Greenway U2-8  
CROSS SECTIONS



Greenway U2-9  
CROSS SECTIONS

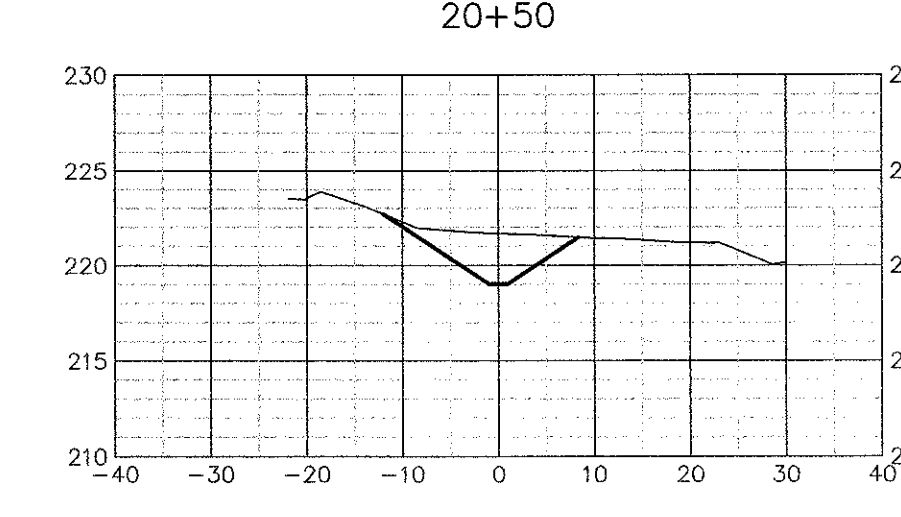
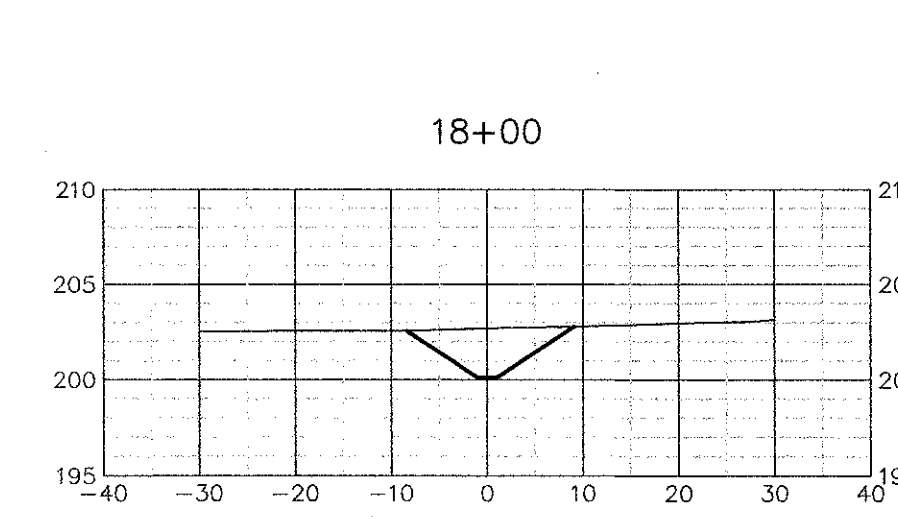
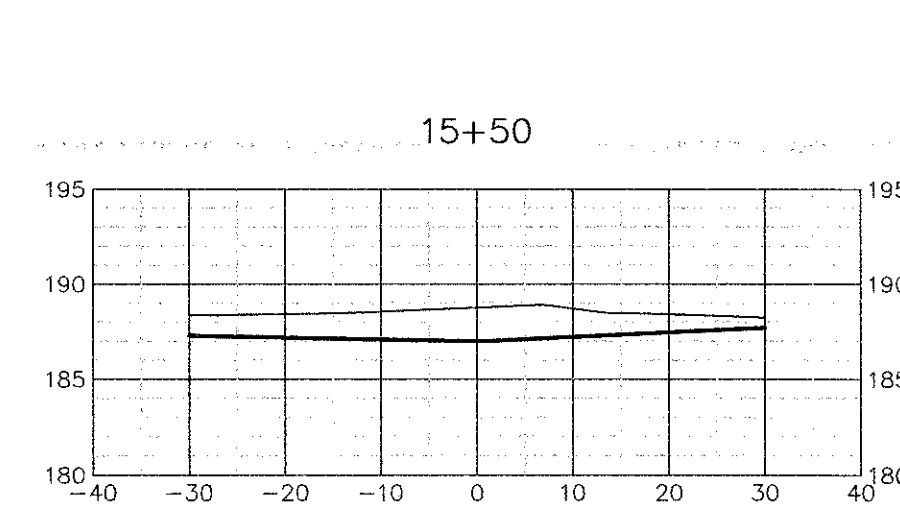
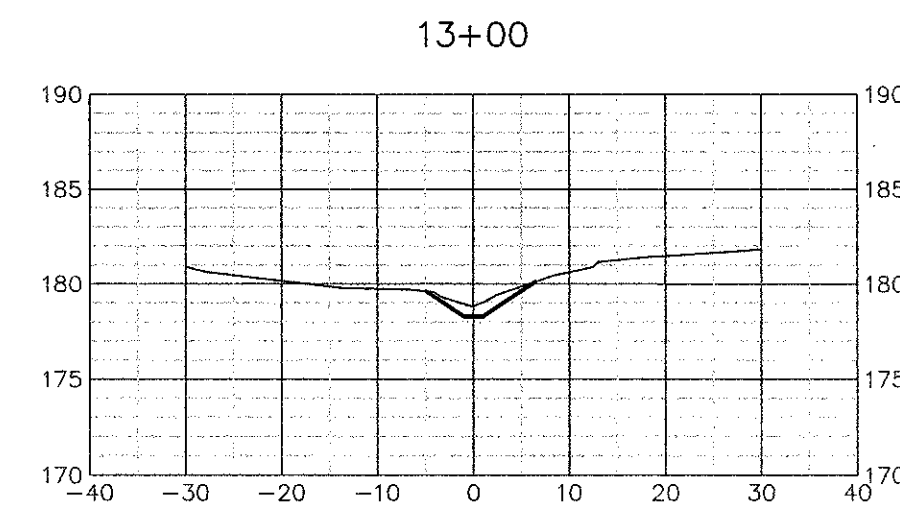
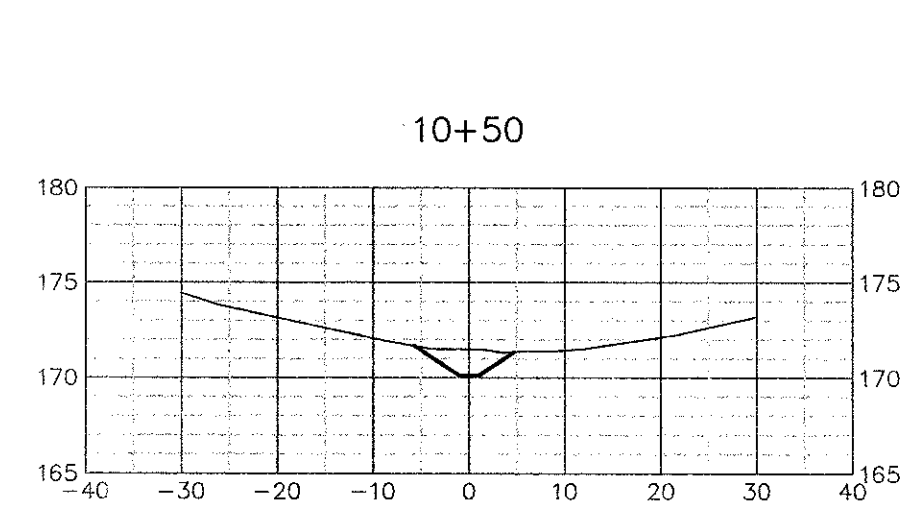
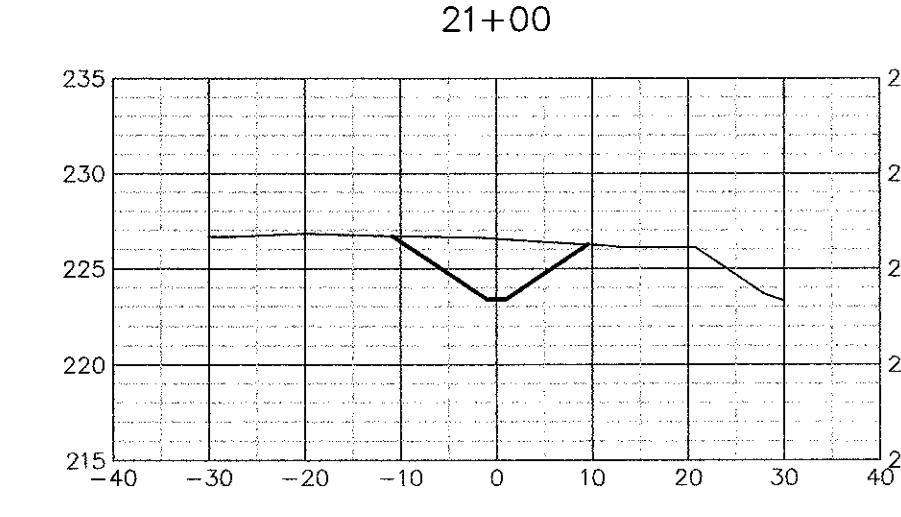
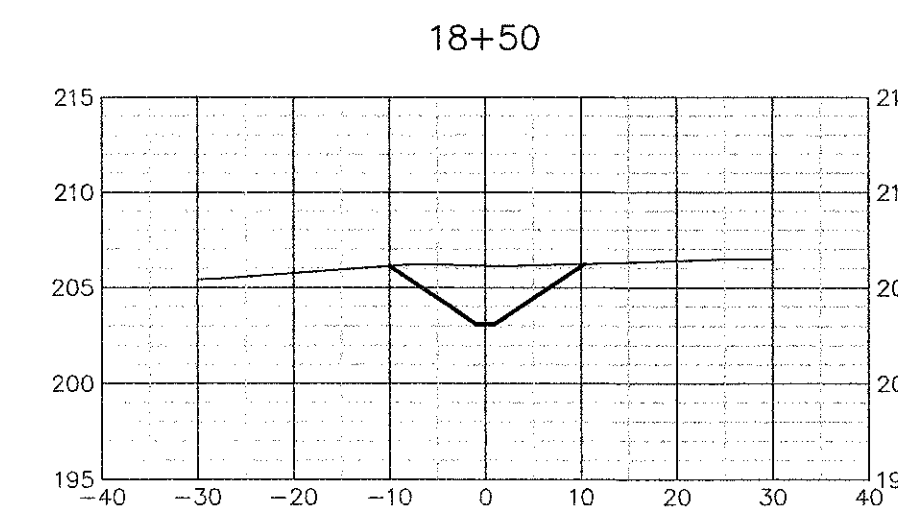
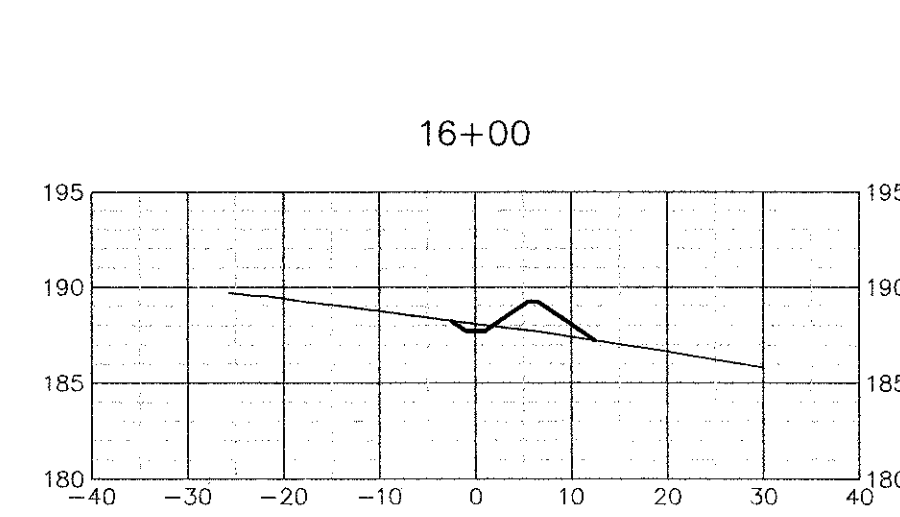
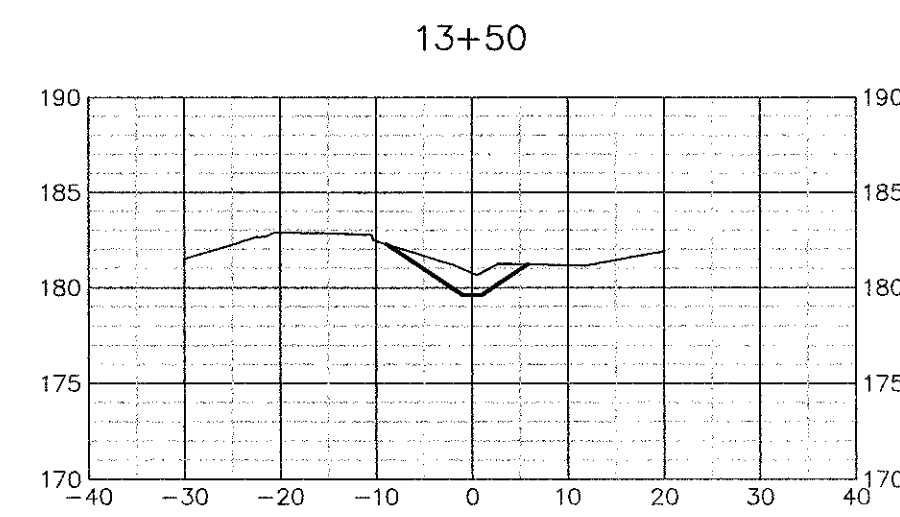
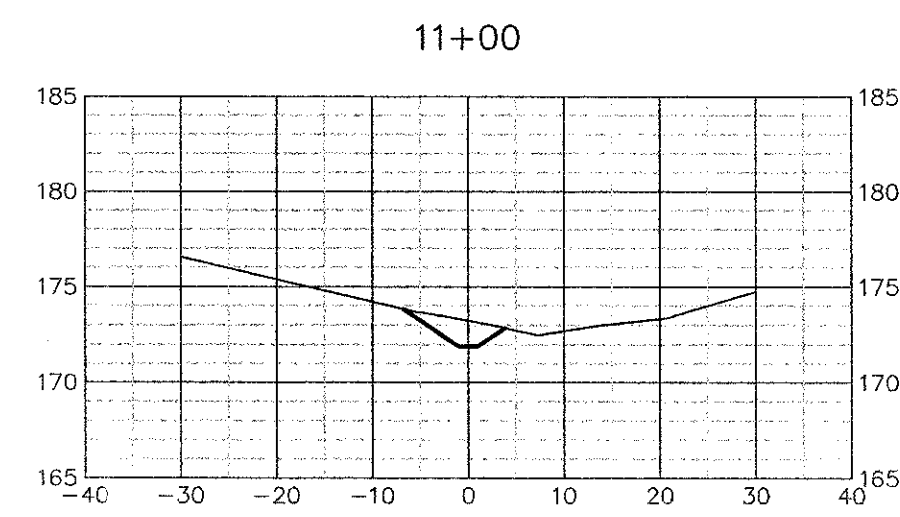
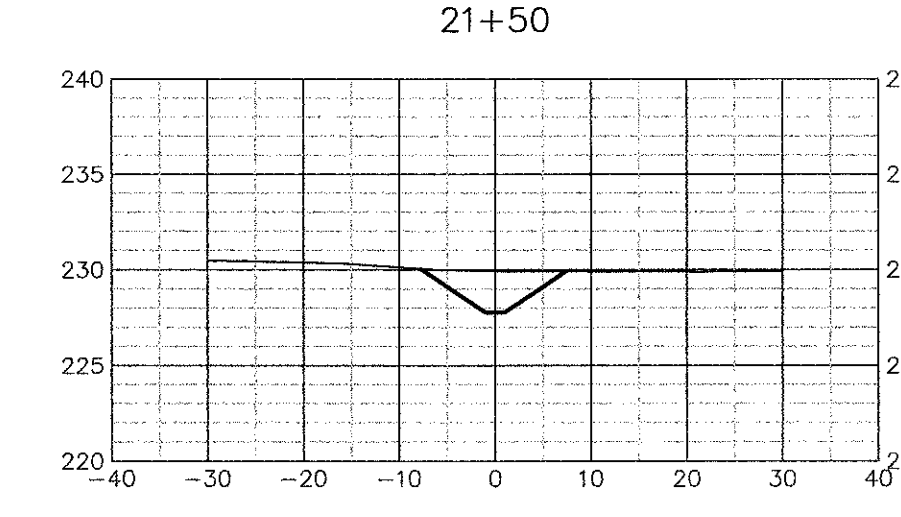
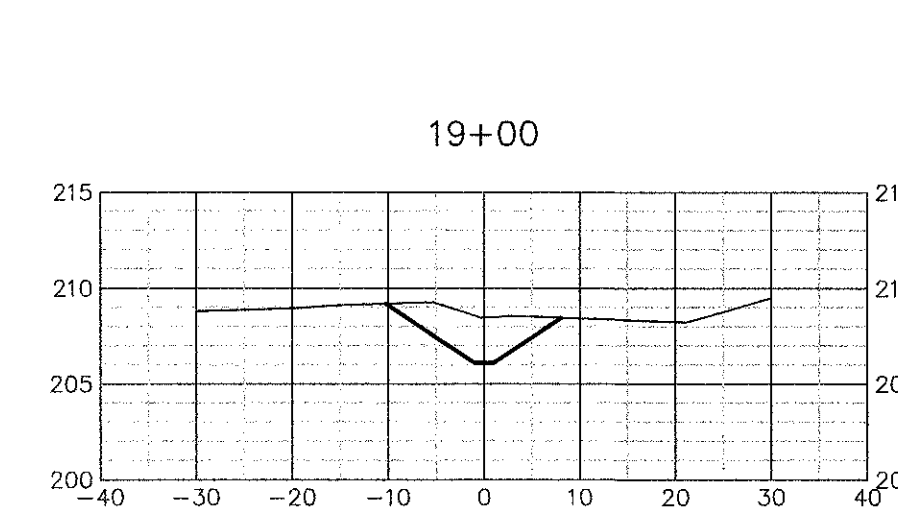
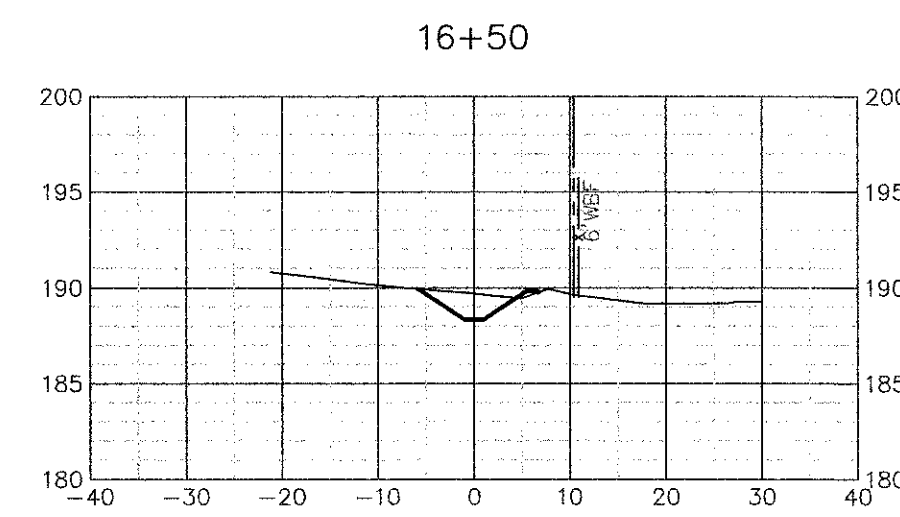
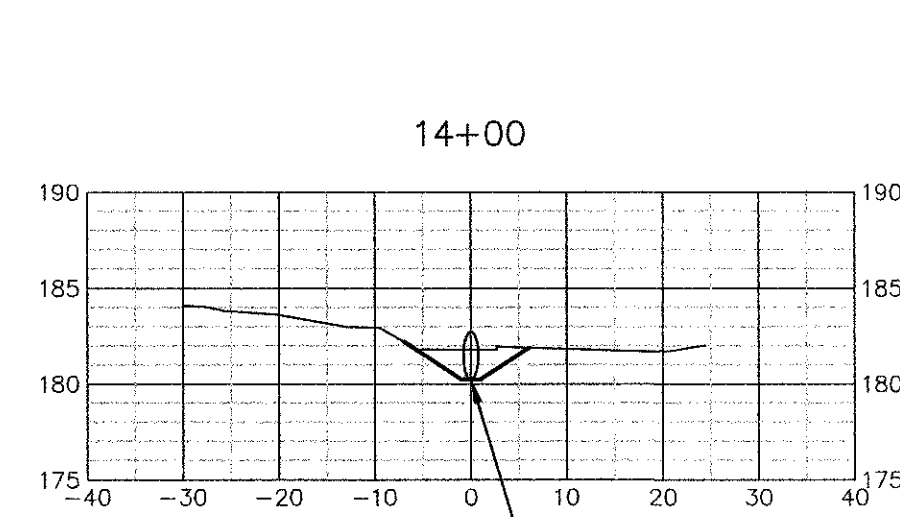
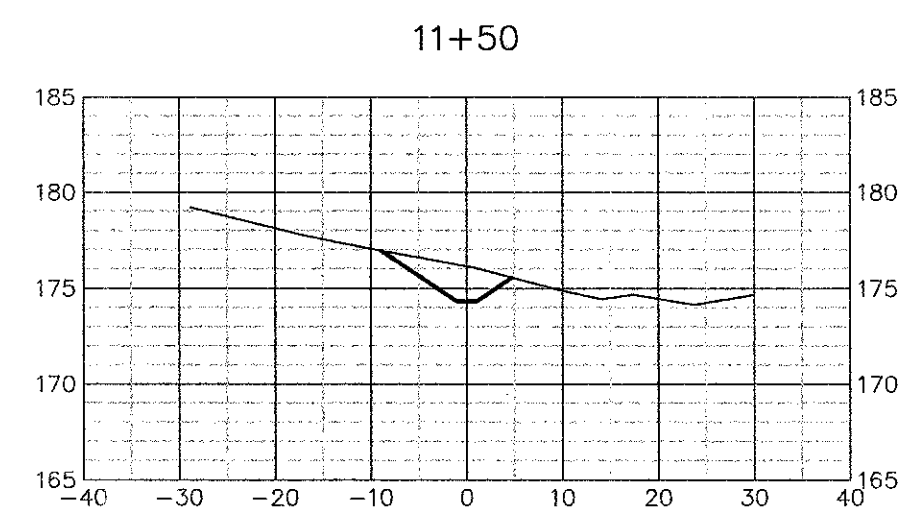
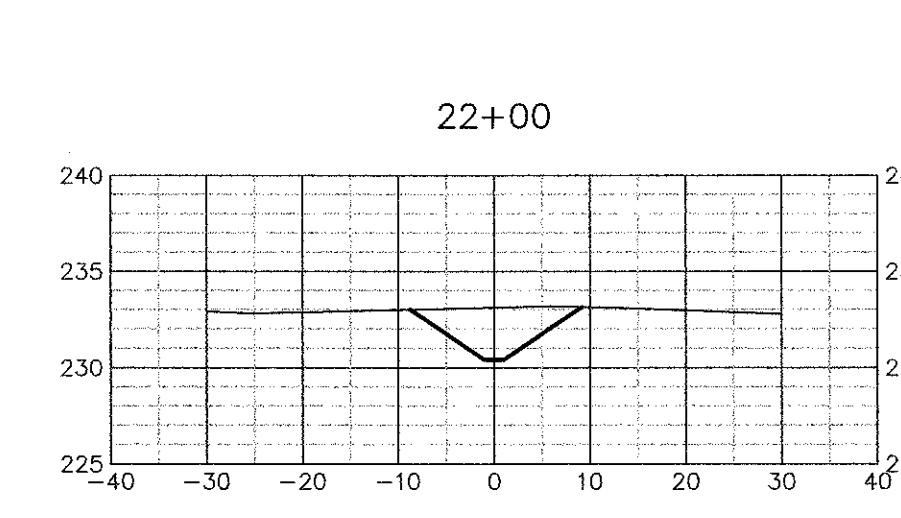
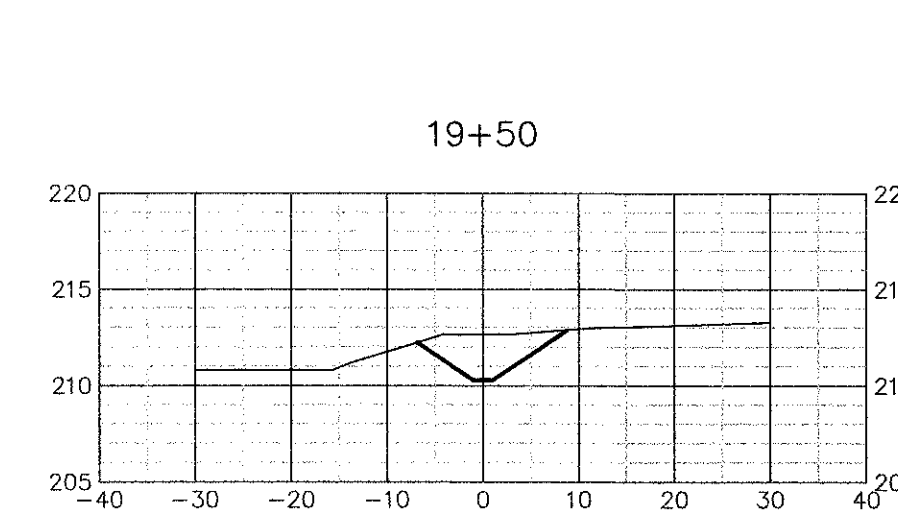
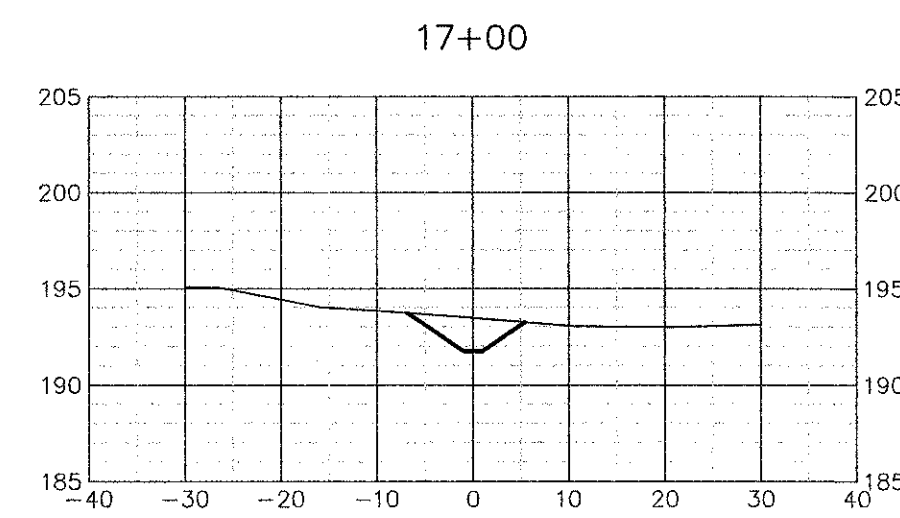
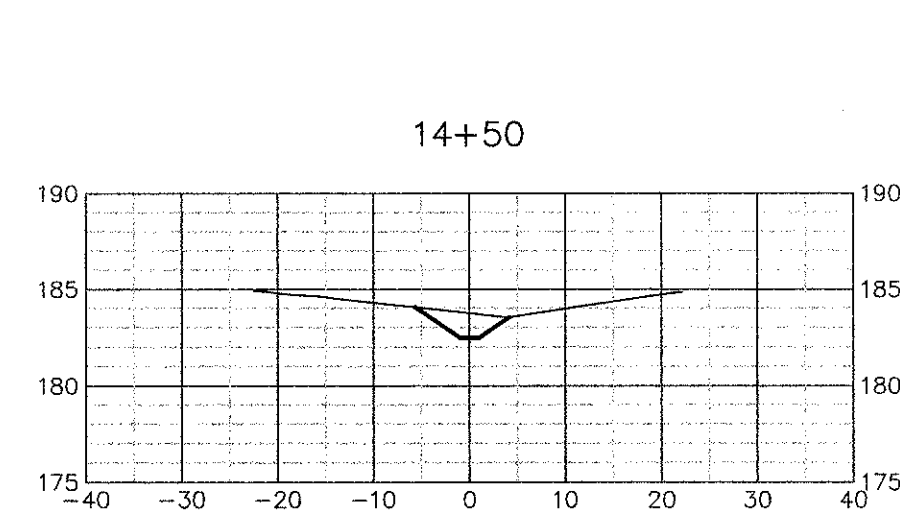
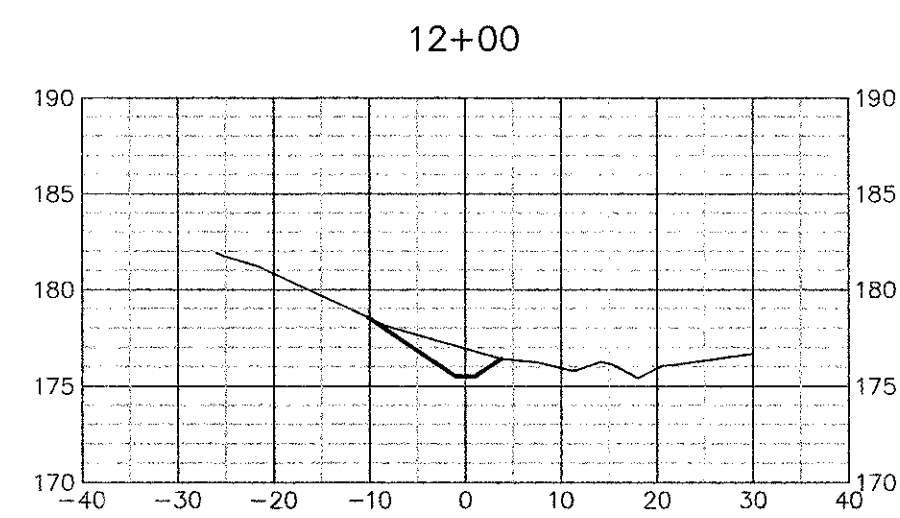
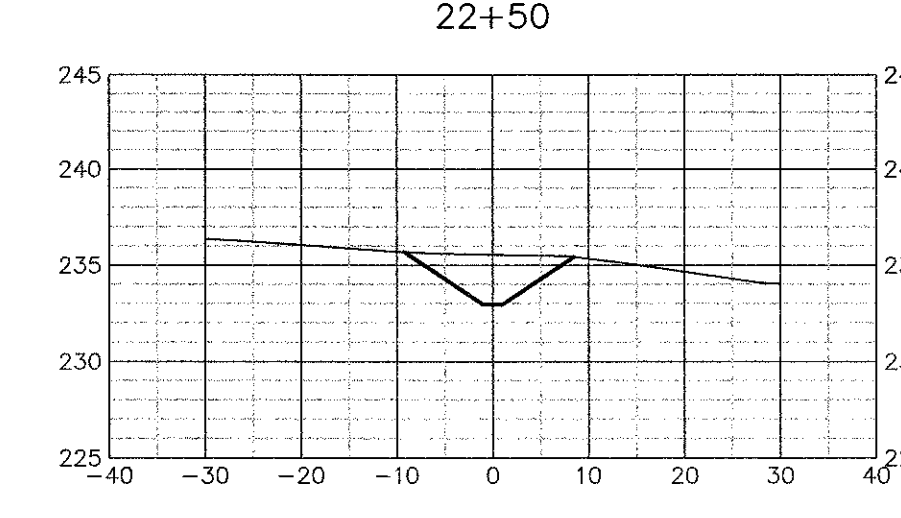
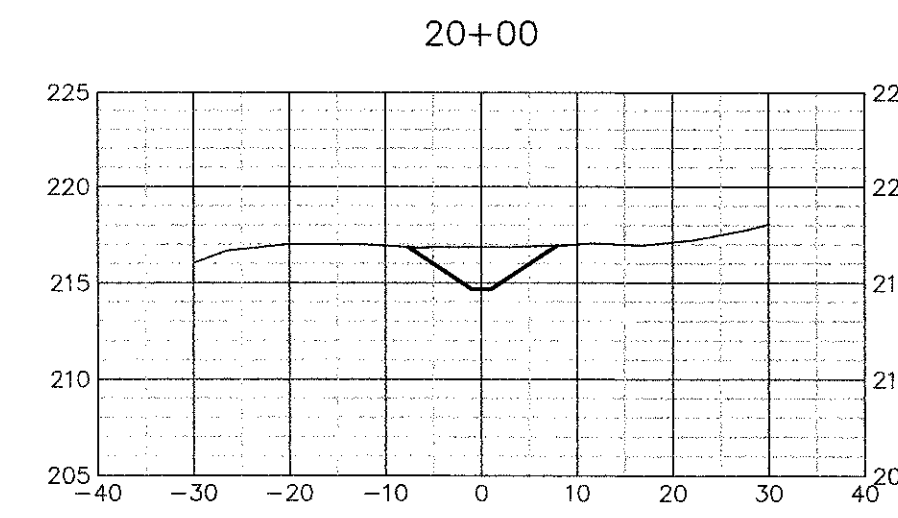
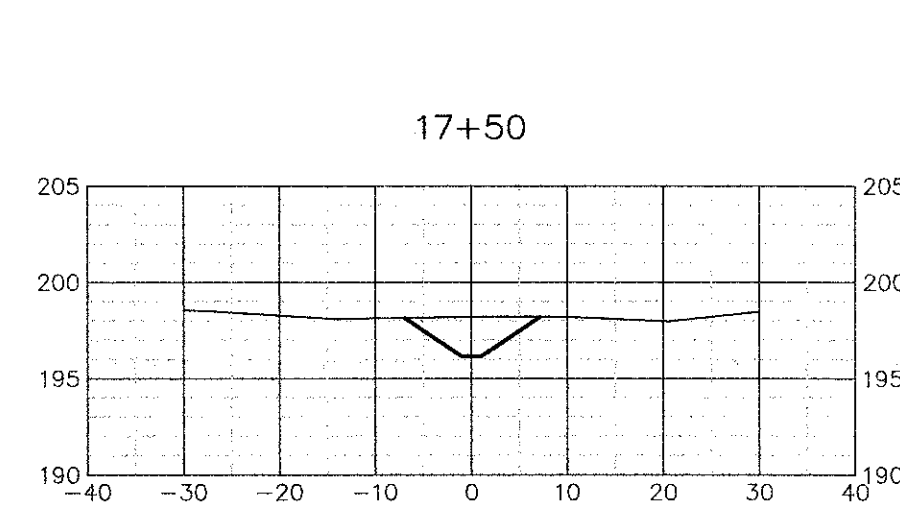
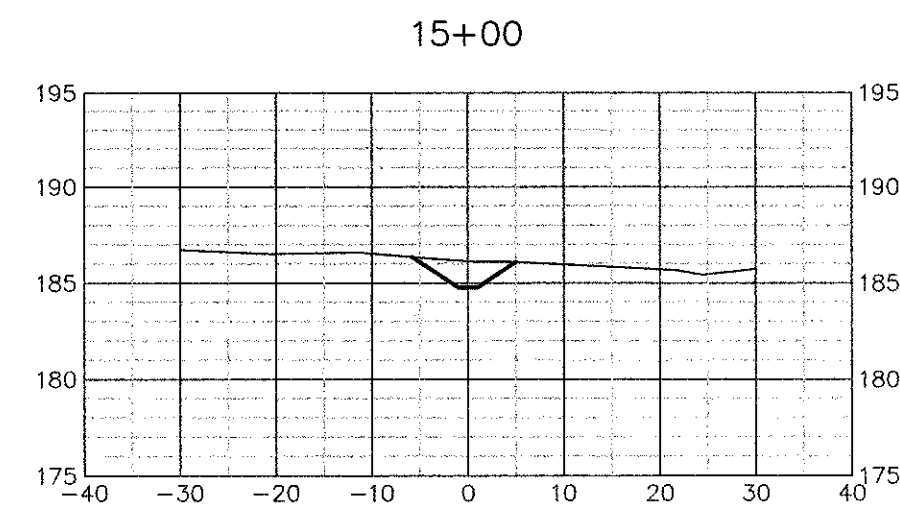
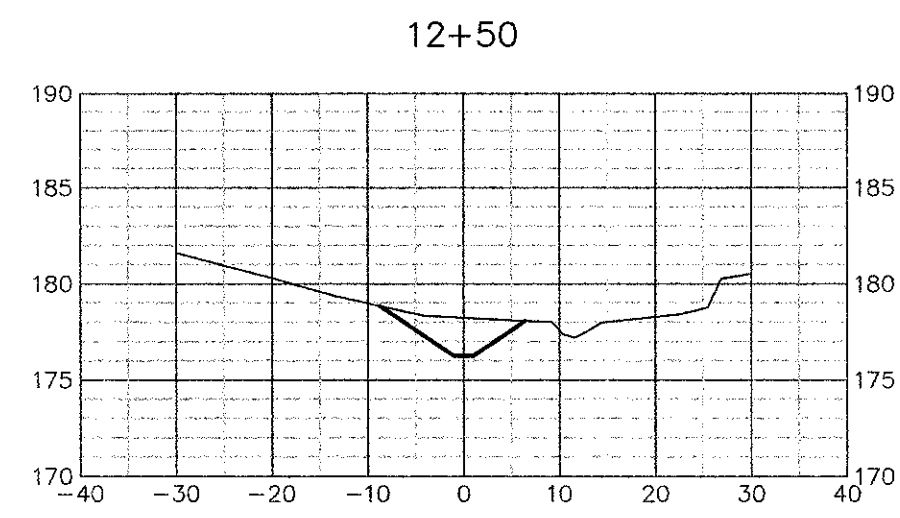
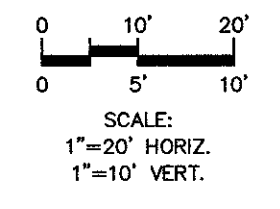


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JOB NO. 100014954 DRAWN MR. DESIGNED GCB CHECKED WKJ QC OC	WILLIAM K. JOHNSON P.E. NO. 11040 33,31333 NOT VALID FOR SEAL IN THIS BLOCK	SHEET 229
TASK: Greenway U2-8 & 9 CROSS SECTIONS		
PROJECT: Killarney Lakes Greenways Maintenance and Restoration Plans - Phase 1		
CLIENT: <b>ATKINS</b> 2639 N. Monroe St. Building C Tallahassee, Florida 32303 850.575.1800 FBPR Certificate of Authorization No. 24		



# Greenway U2-10 CROSS SECTIONS



JOB NO.	100014954
DRAWN	MR. GCB
DESIGNED	WIKJ
CHECKED	CC
SHEET	230

WILLIAM K. JOHNSON  
P.E. NO. 100014954  
3-23-11 11  
*[Signature]*  
NOT VALID FOR THE BOARD

ORIGINAL	JULY 2012
REVISIONS:	
1	
2	
3	
4	
5	

TASK  
**Greenway U2-10  
CROSS SECTIONS**

PROJECT  
**Killbuck Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**

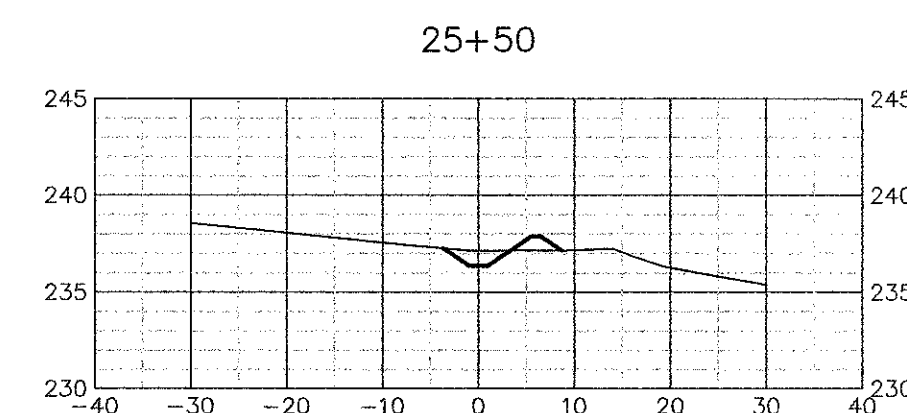
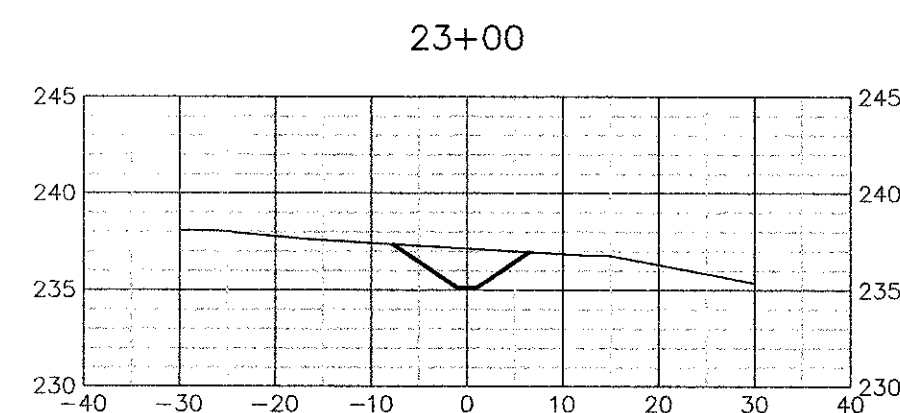
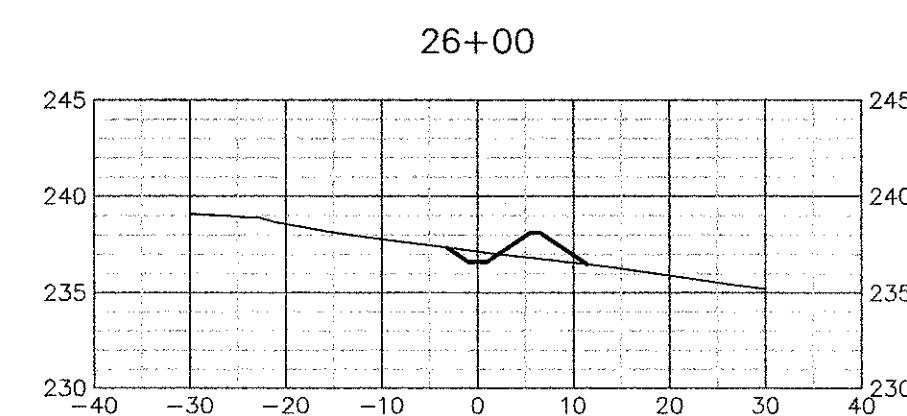
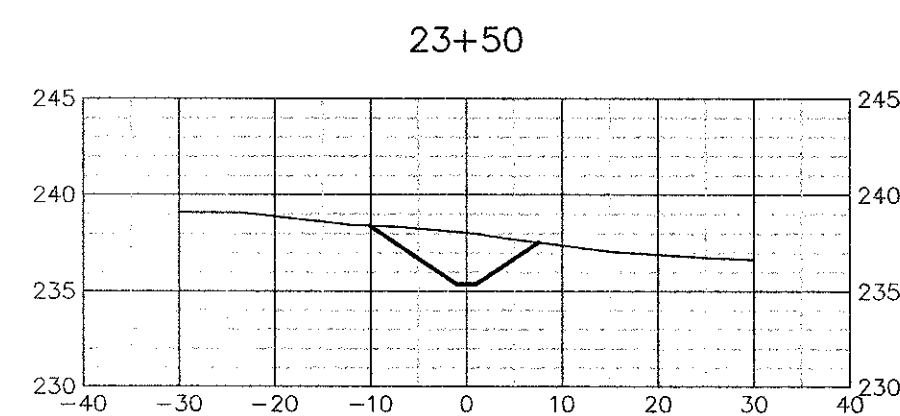
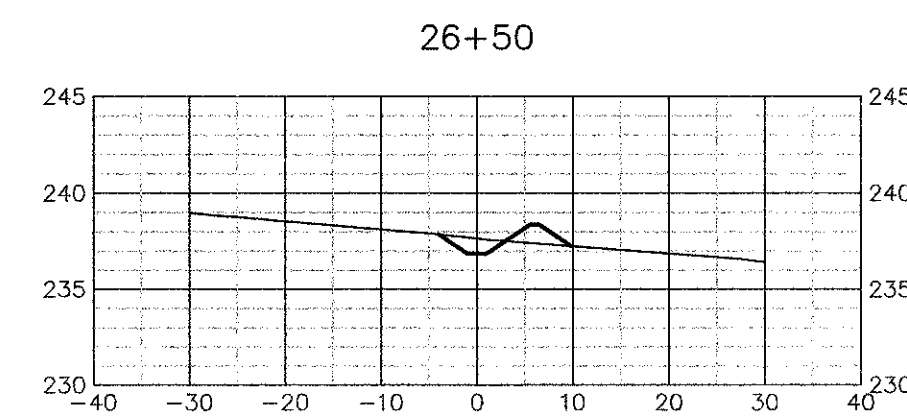
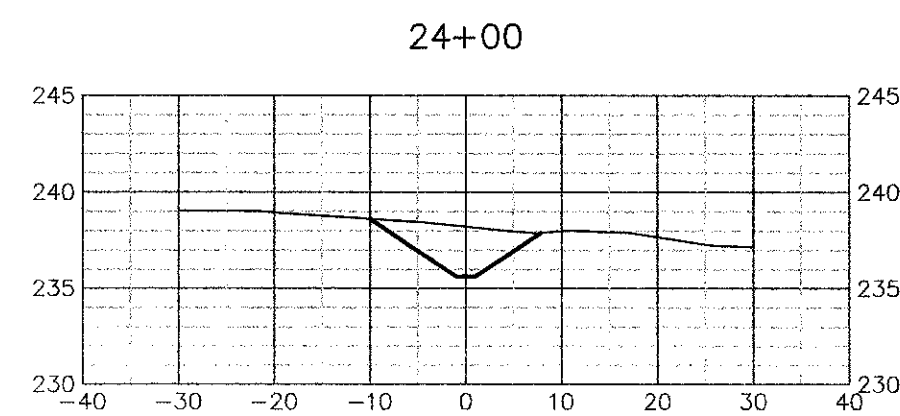
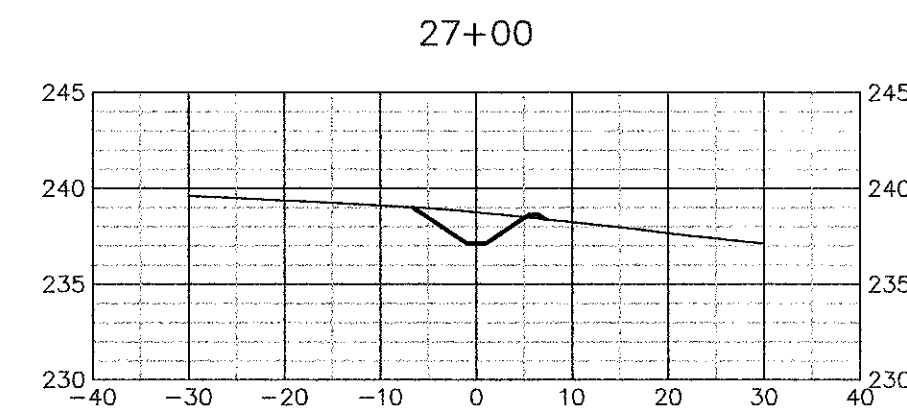
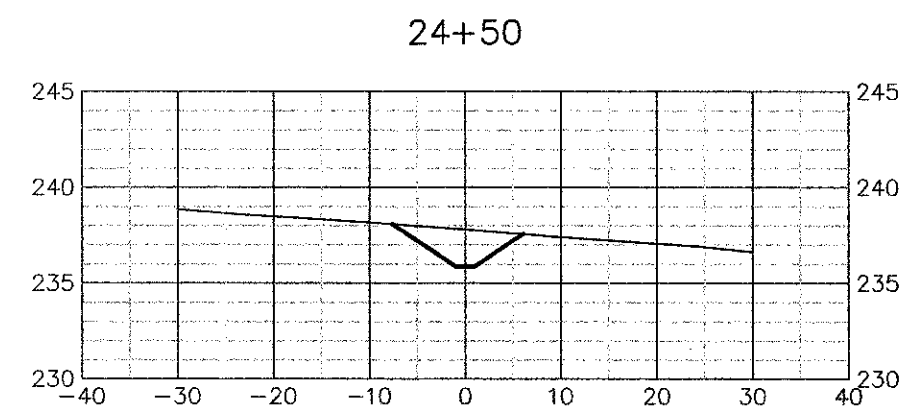
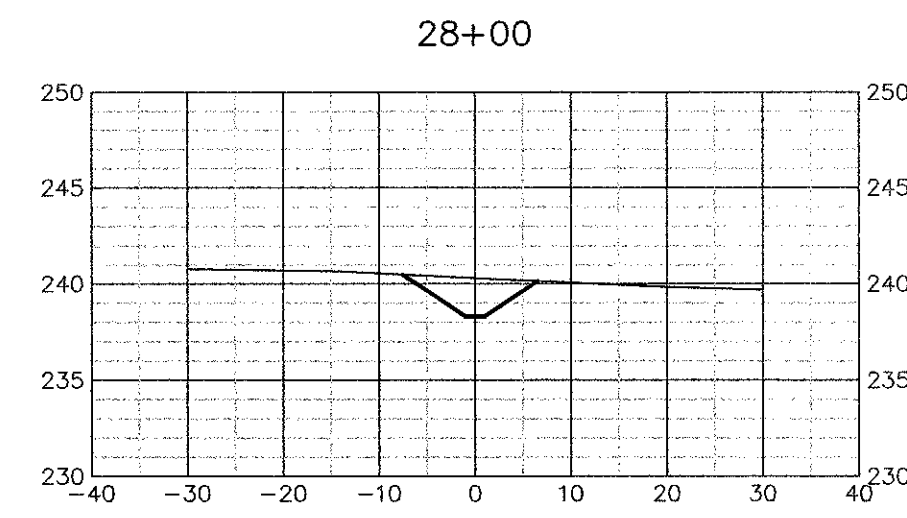
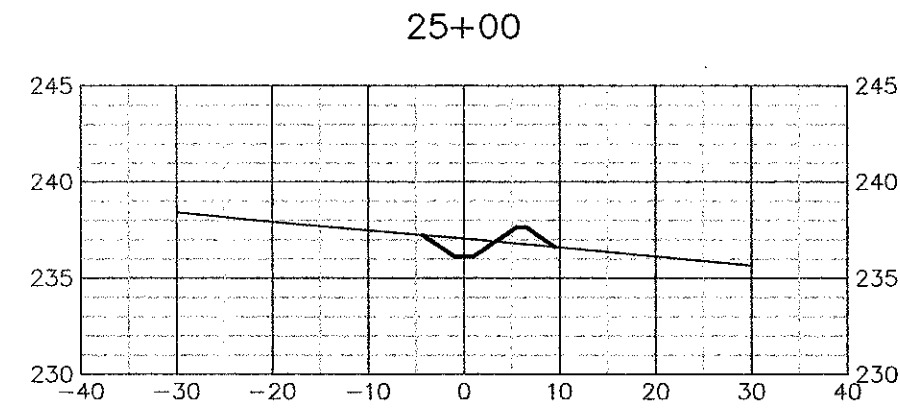
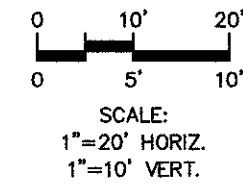


CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
PBPR Certificate of Authorization No. 24

H:\CIVIL\Killbuck-Lakes-Strmwater-Greenways\Cds-Ph1\Base-Unit-2.dwg 07/13/2012 03:29:25 PM

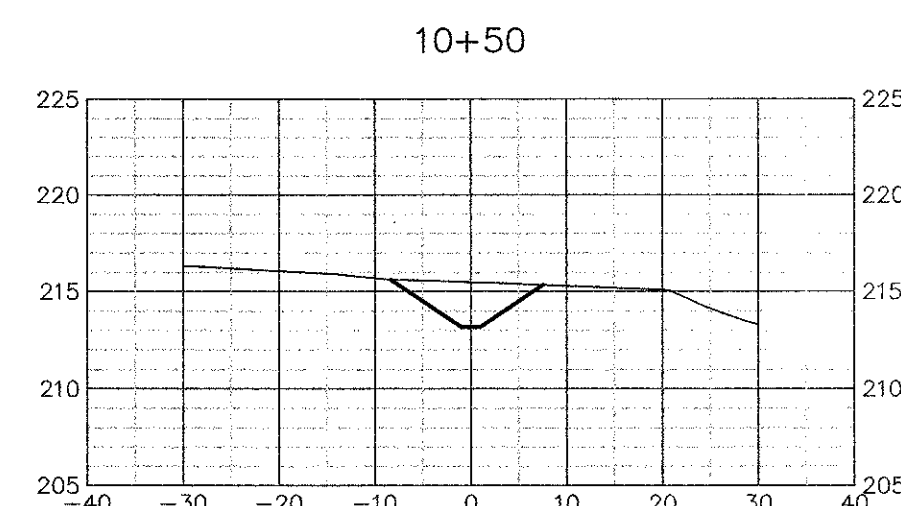
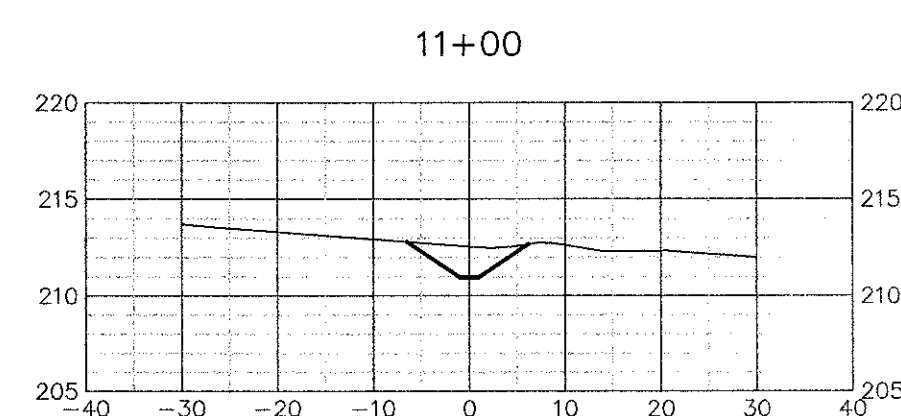
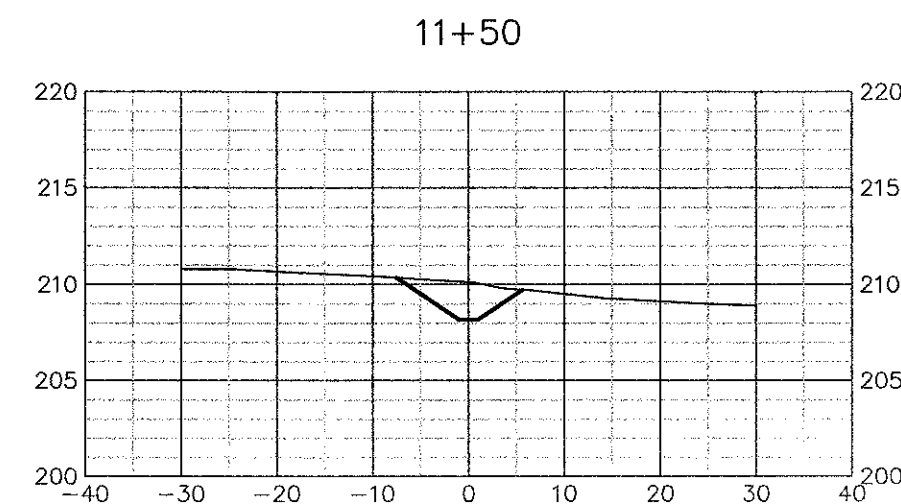
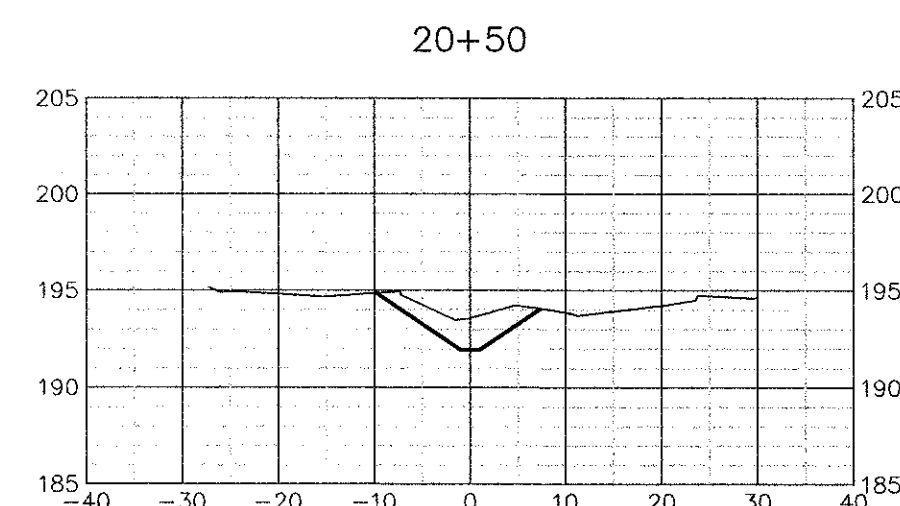
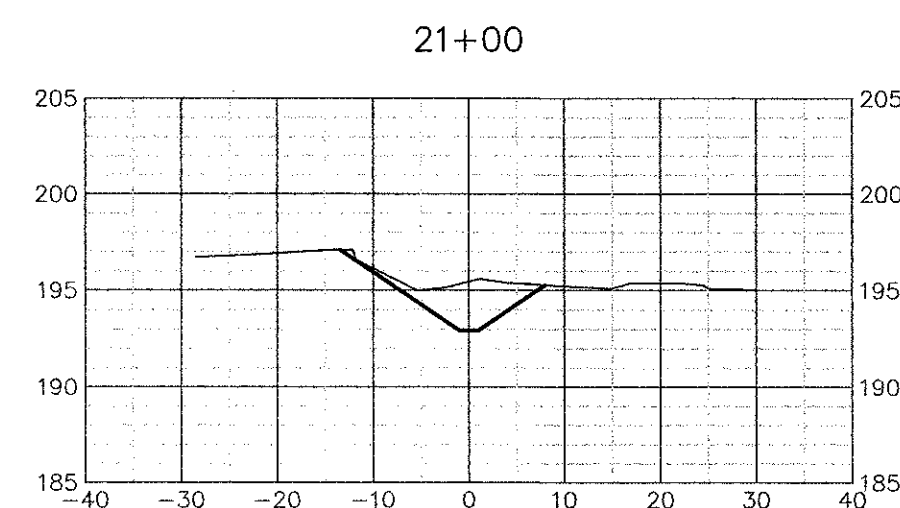
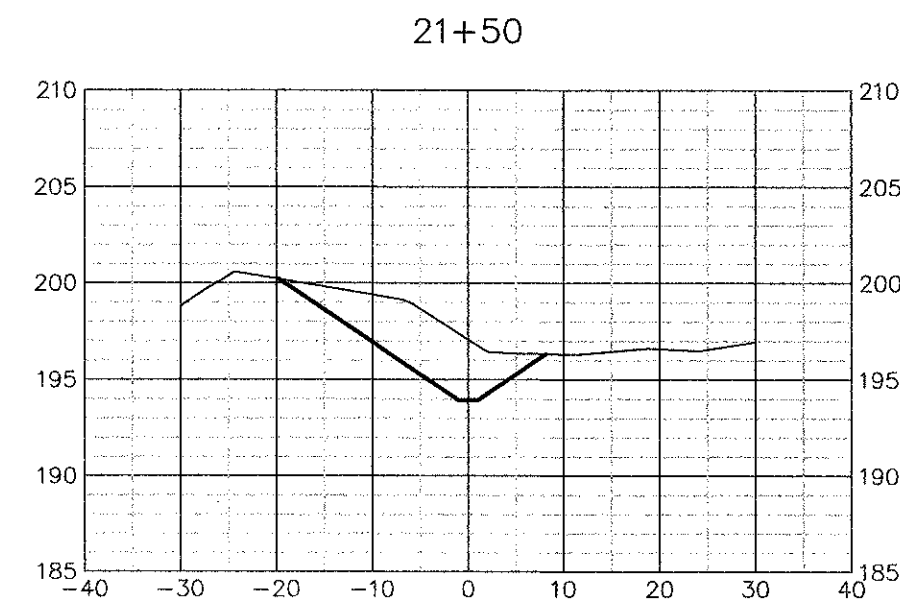
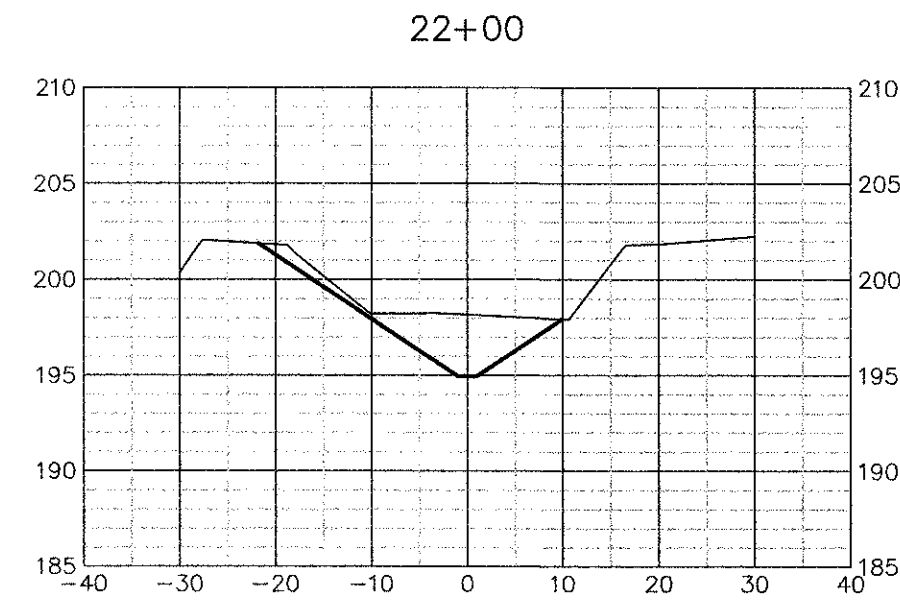
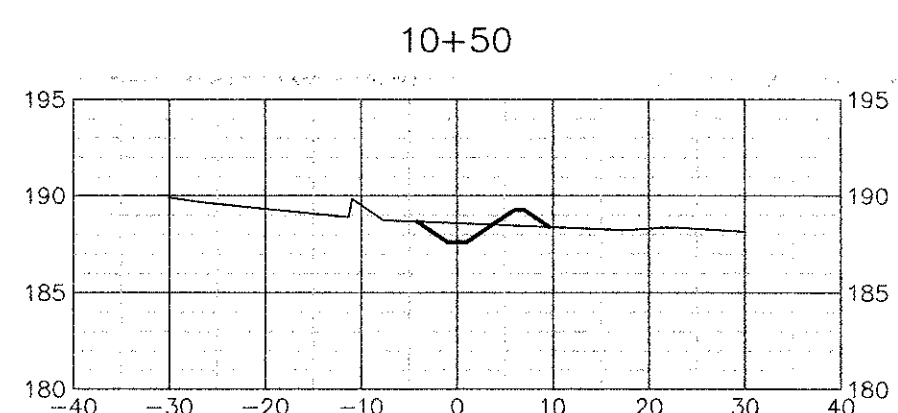
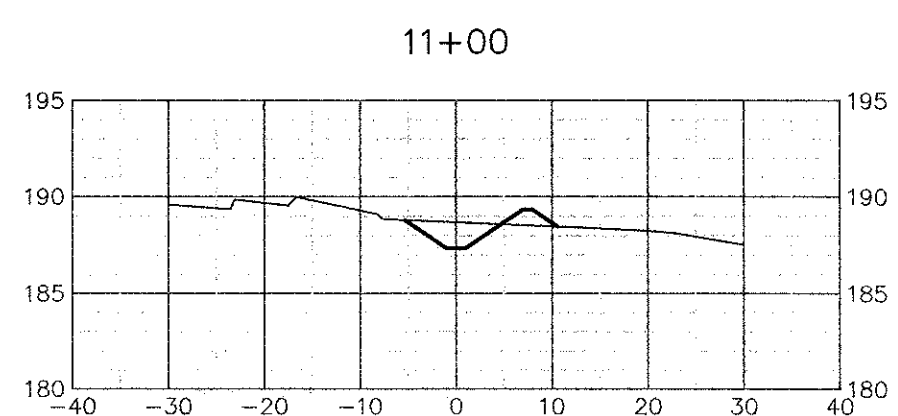
**Greenway U2-10  
CROSS SECTIONS**



**Greenway U2-11  
CROSS SECTIONS**

**Greenway U2-12  
CROSS SECTIONS**

**Greenway U2-13  
CROSS SECTIONS**



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JOB NO.	100014954
DRAWN	MR.
DESIGNED	GCB
CHECKED	WKJ
QC	CC

WILLIAM K. JOHNSON  
P.E. NO. 41046  
NOT VALID FOR ANY OTHER PROJECT UNLESS SPECIFIED IN THIS BOOK

ORIGINAL	MAY 2012
REVISIONS:	
1	
2	
3	
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5	

TASK  
**Greenway U2-10 & 13  
CROSS SECTIONS**

PROJECT  
**Killiam Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



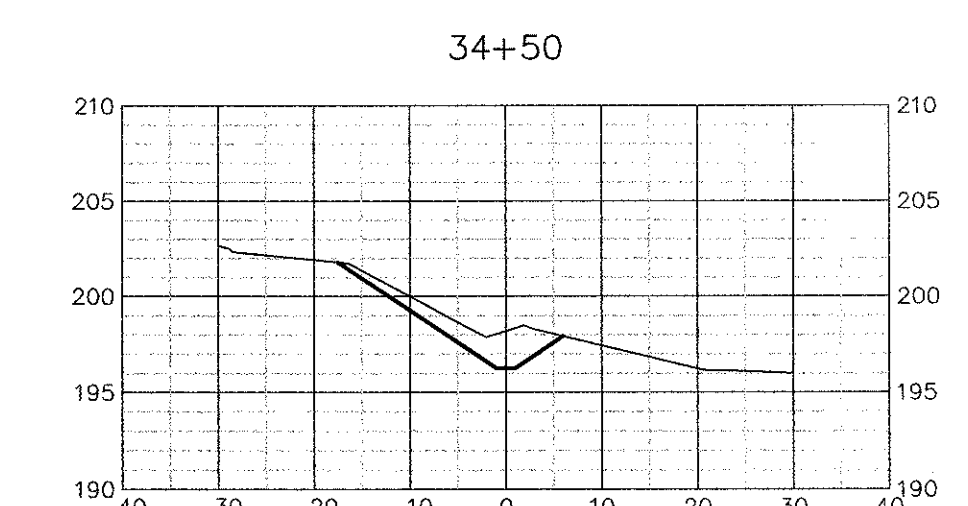
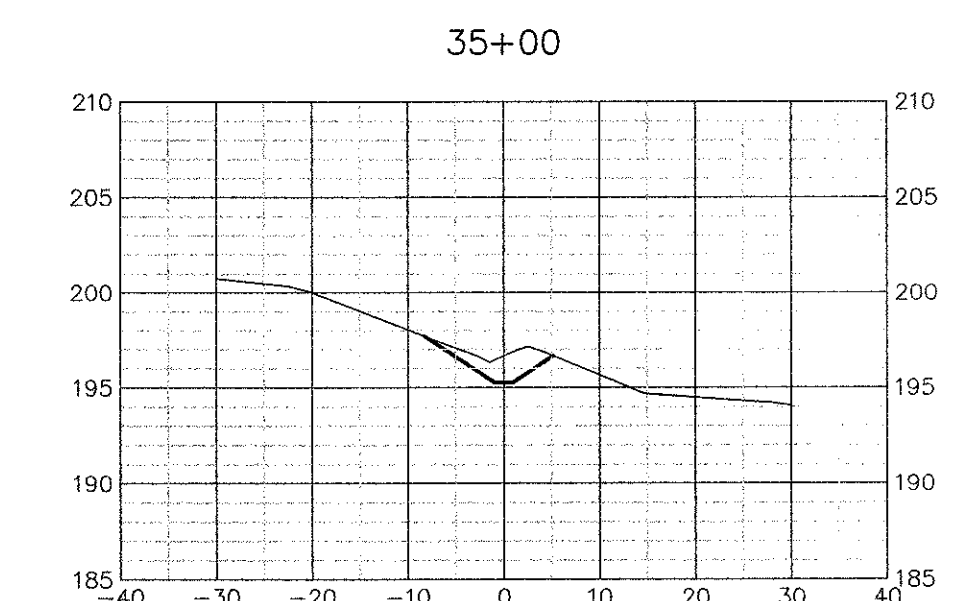
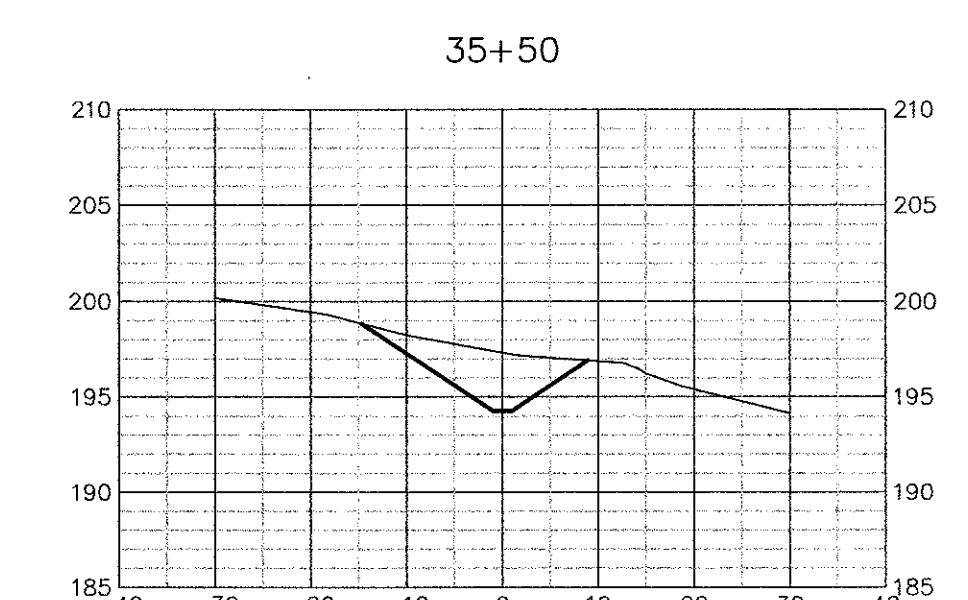
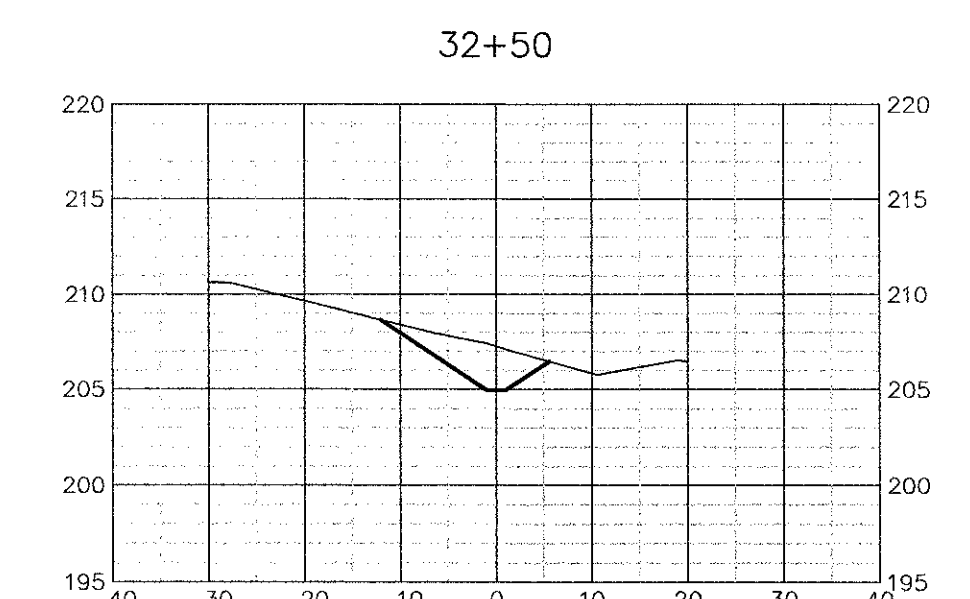
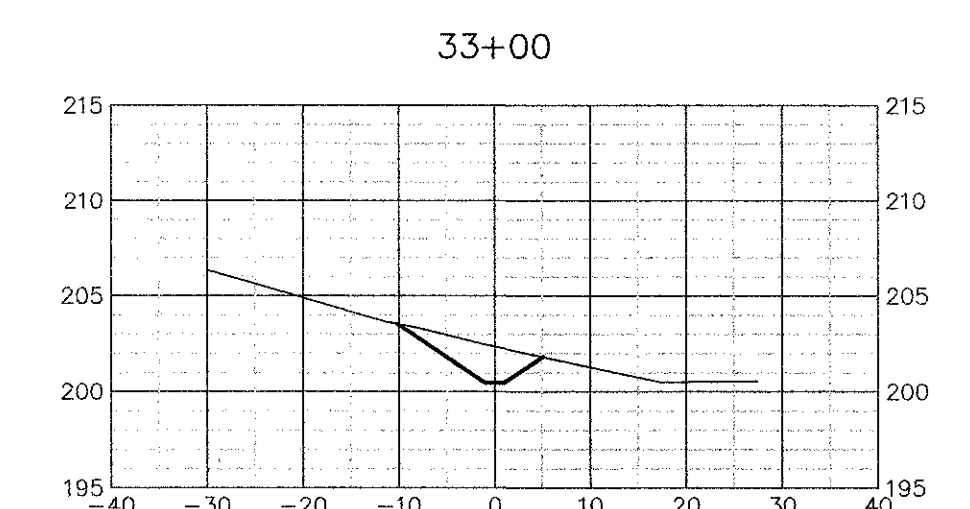
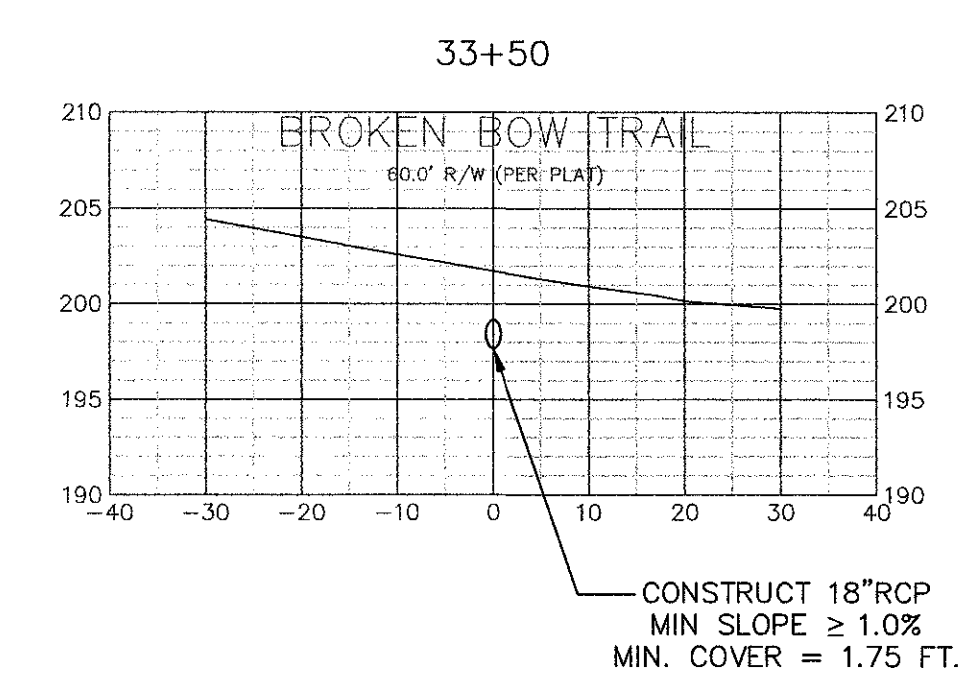
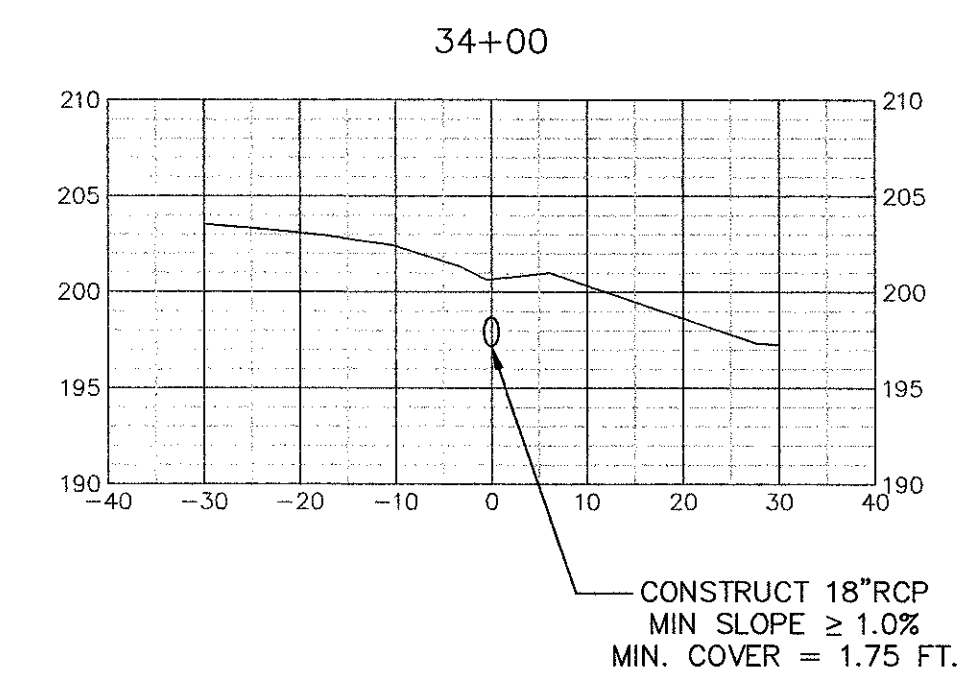
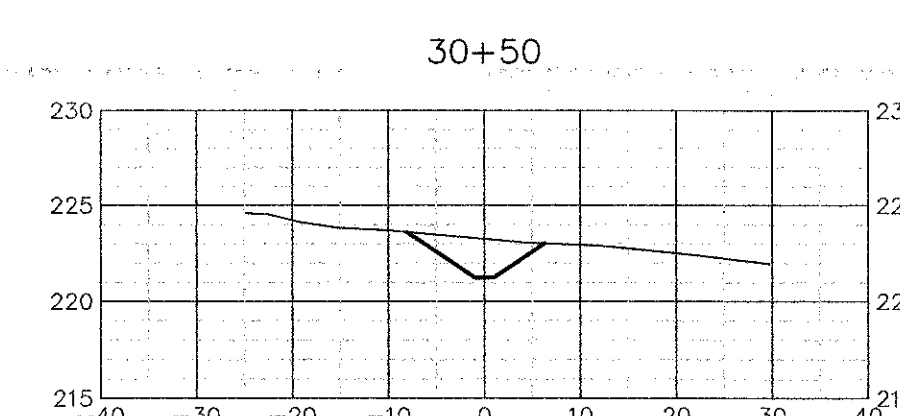
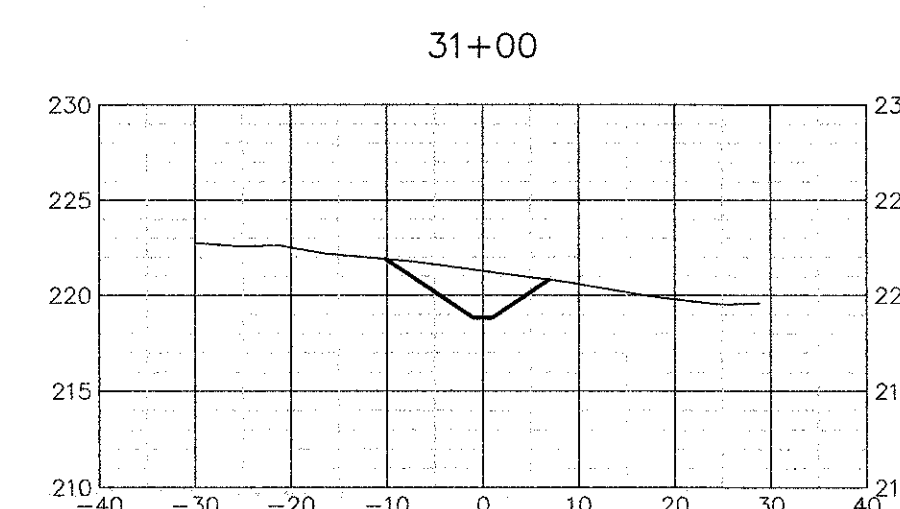
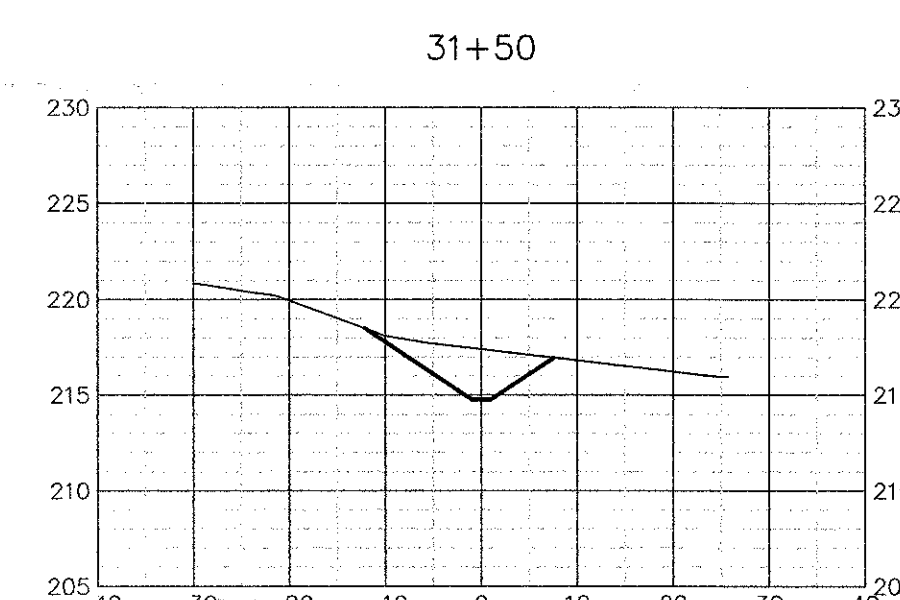
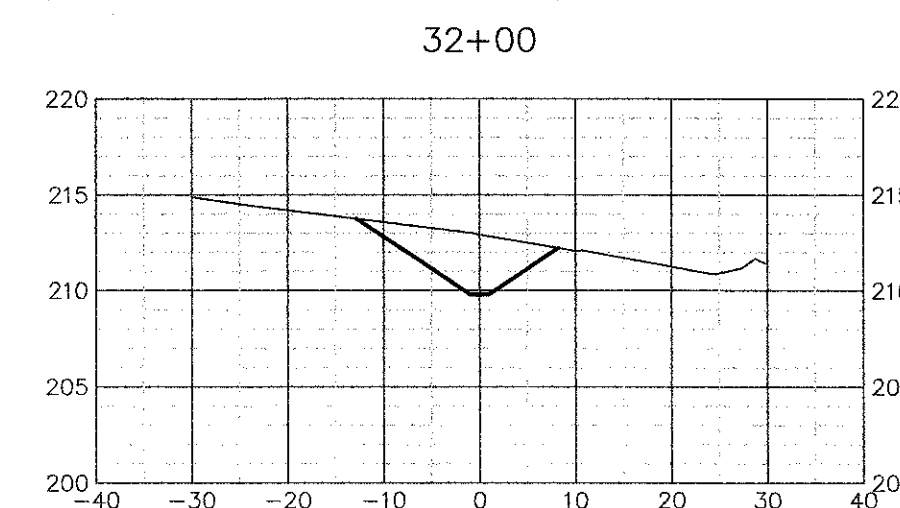
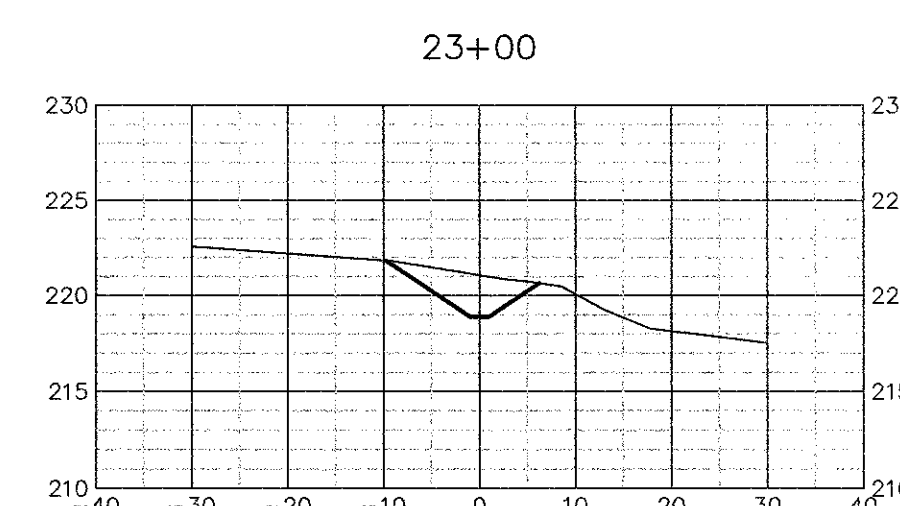
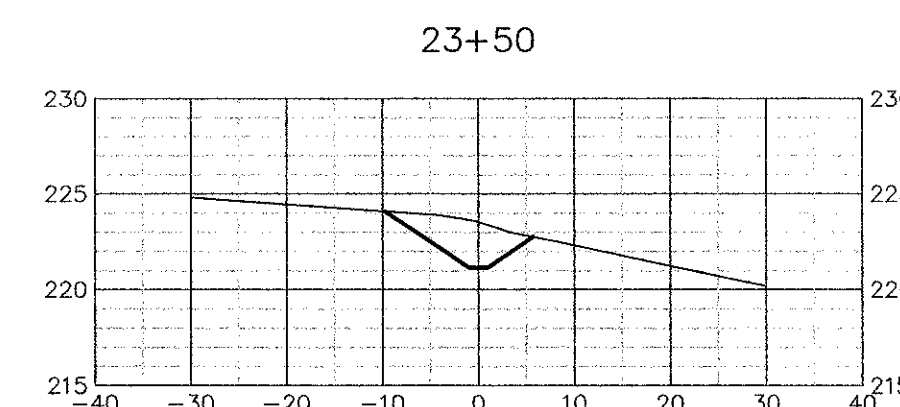
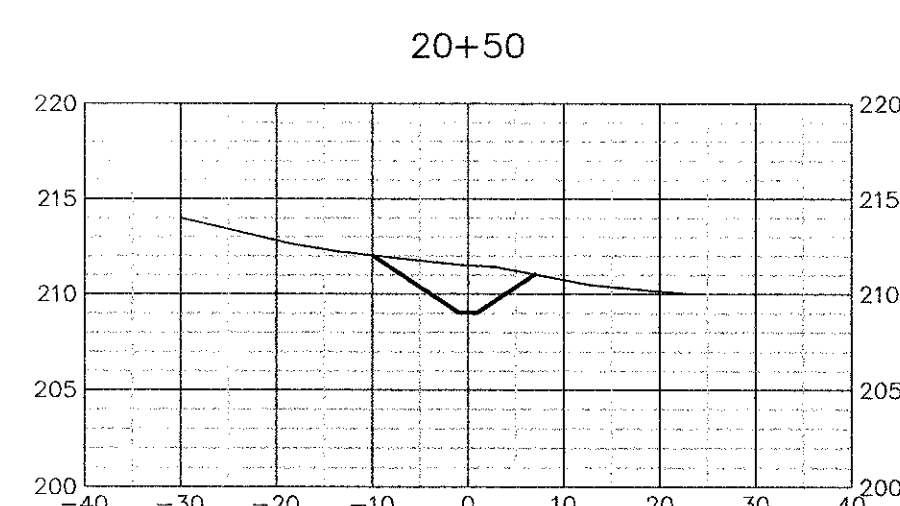
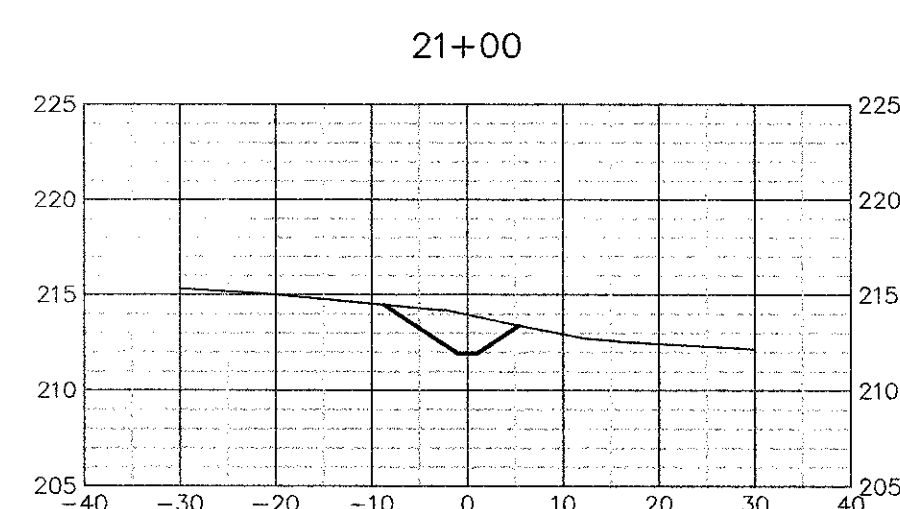
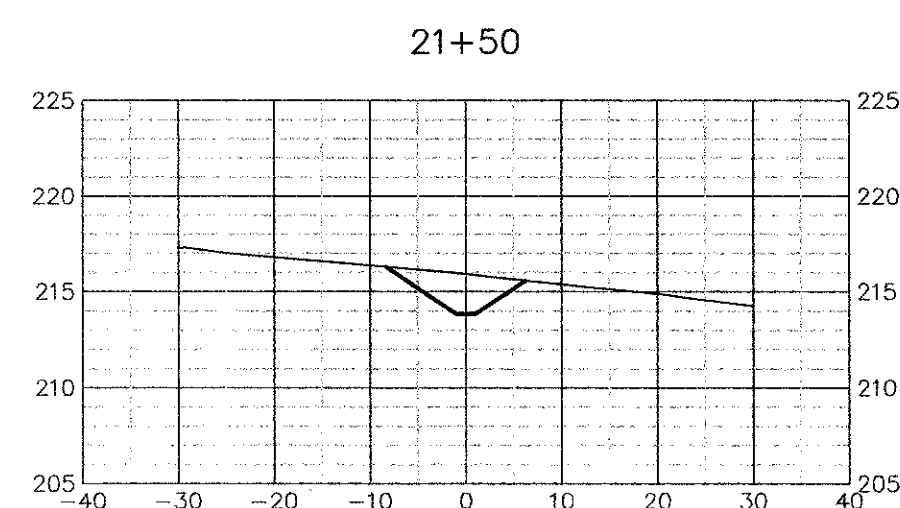
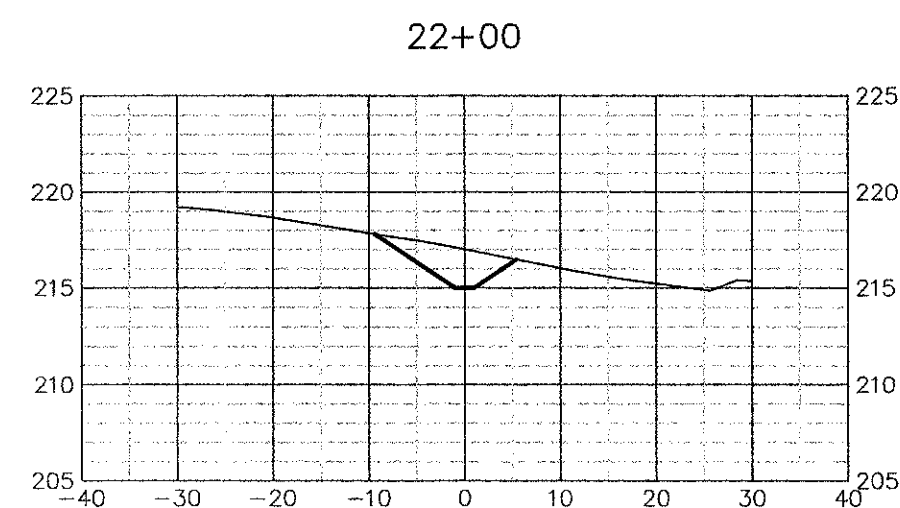
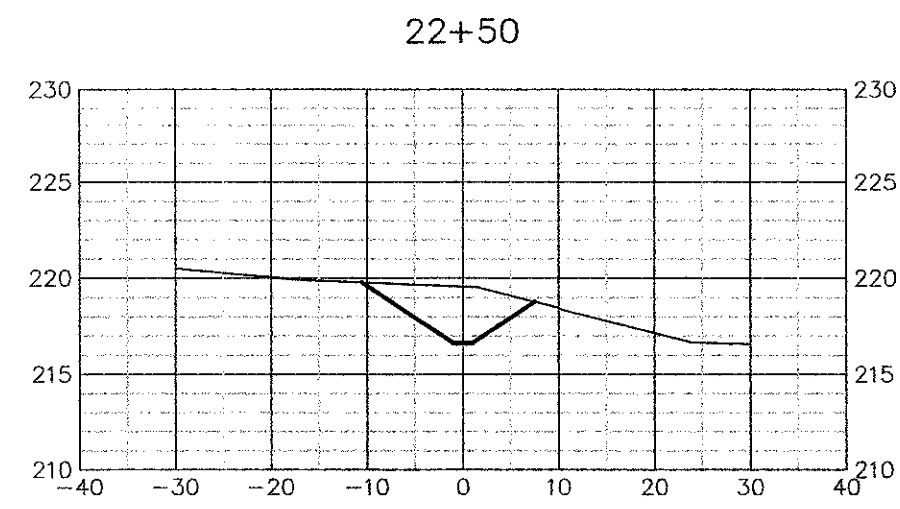
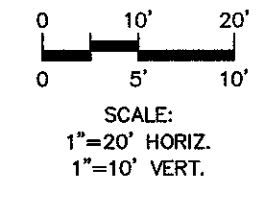
CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
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SHEET 231

# Greenway U2-14 CROSS SECTIONS

# Greenway U2-15 CROSS SECTIONS



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JOB NO.	100014954
MR.	
DESIGNED	GCB
CHECKED	WKJ
OC	
SHEET	232

WILLIAM K. JOHNSON  
P.E. NO. 10046  
10/13/12  
NOT VALID FOR OFF-STATE BLOCK

ORIGINAL	MAY 2012
REVISIONS:	
1	
2	
3	
4	
5	

TASK  
**Greenway U2-14 & 15  
CROSS SECTIONS**

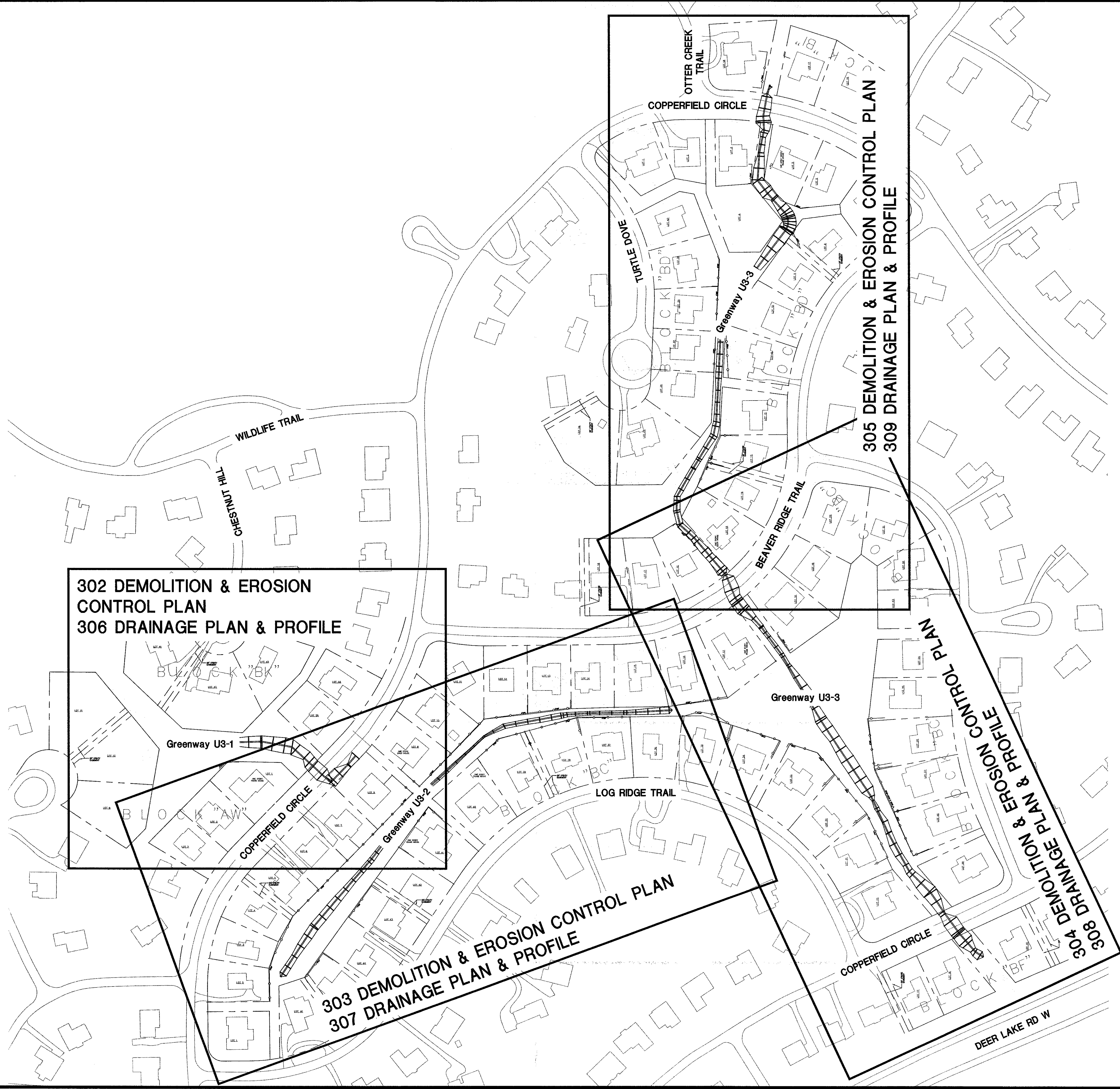
PROJECT  
**Killbuck Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

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**302 DEMOLITION & EROSION CONTROL PLAN**  
**306 DRAINAGE PLAN & PROFILE**

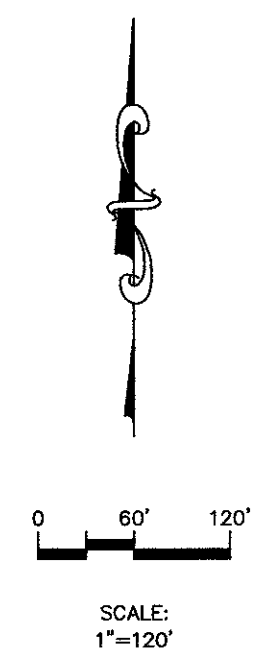
**303 DEMOLITION & EROSION CONTROL PLAN**  
**307 DRAINAGE PLAN & PROFILE**

**305 DEMOLITION & EROSION CONTROL PLAN**  
**309 DRAINAGE PLAN & PROFILE**

**304 DEMOLITION & EROSION CONTROL PLAN**  
**308 DRAINAGE PLAN & PROFILE**

**LEGEND**

FULL LEGEND SHOWN ON SHEET 200  
 [Symbol] FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS



JOB NO. 100014954  
 DRAWN MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 CC

WILLIAM K. JOHNSON  
 P.E. NO. 4084  
 05/08/2012  
 NOT VALID FOR THE BLOCK  
 UNLESS SIGNED BY THE BLOCK

ORIGINAL \_\_\_\_\_ MAY 2012

REVISIONS:

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**UNIT 3**  
**KEY MAP**

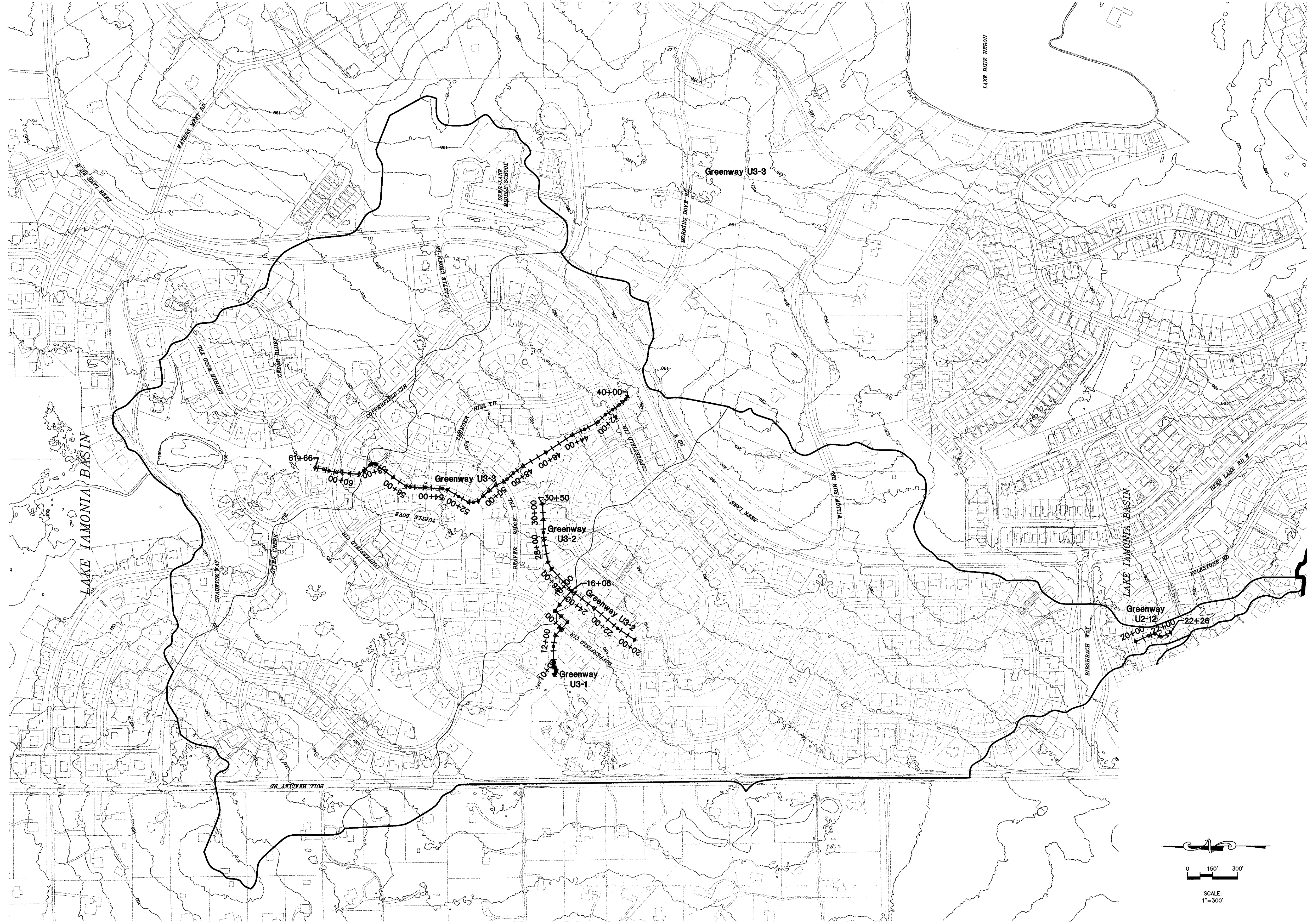
PROJECT  
**Killlearn Lakes Greenways**  
**Maintenance and Restoration**  
**Plans - Phase 1**

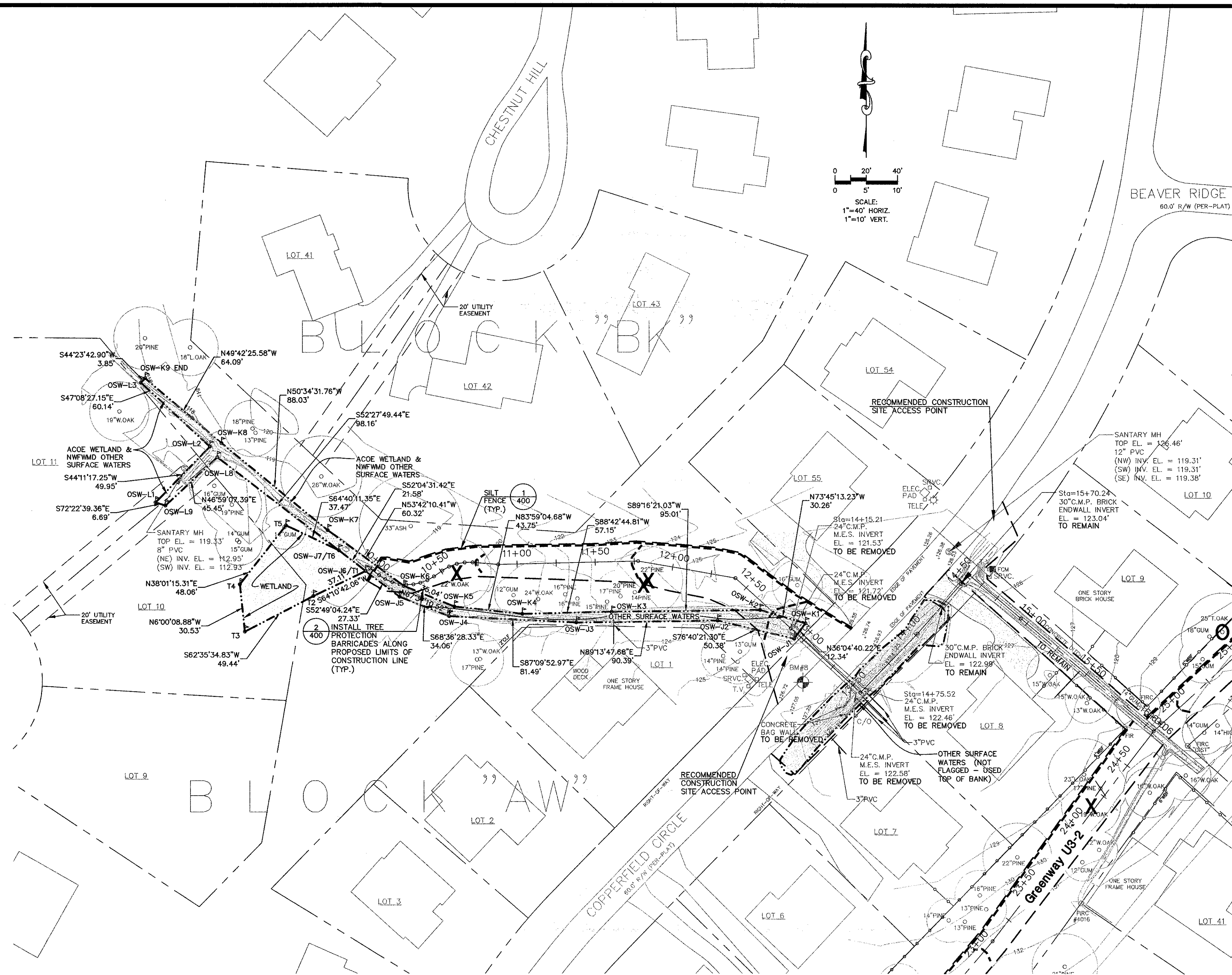


CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

SHEET 300





CONSTRUCTION SEQUENCE:

1. PRIOR TO BEGINNING CONSTRUCTION SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE PERMIT AGENCIES, AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
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3. LOCATE ALL UTILITIES WITHIN THE LIMITS OF CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
4. INSTALL SILT FENCE AS SHOWN. ADDITIONAL SILT FENCES MAY BE ADDED AS REQUESTED BY THE ENVIRONMENTAL INSPECTOR.
5. INSTALL HAY BALES EVERY 100' DOWNSTREAM OF CONSTRUCTION ACTIVITY AS SHOWN. MAINTAIN AND REPAIR SILT FENCES UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, AND STABILIZED.
6. THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.
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10. LANDSCAPE AND SOD ALL DISTURBED AREAS AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
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LEGEND

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - TLGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
  - PROPOSED IMPACTS TO WETLANDS OR OTHER SURFACE WATERS
  - M-L FIELD LOCATED WETLAND OR OTHER SURFACE WATERS FLAGS AND LINES
  - WETLAND NWFMD AND ACOE WETLAND UNLESS OTHERWISE NOTED
  - X EXISTING 12"-17" TREES TO BE REMOVED. (TYP.)
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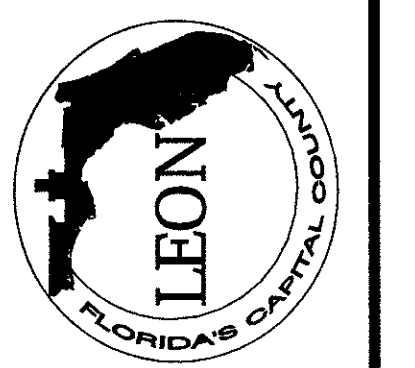
JOB NO.	100014954
DRAWN	MIR
DESIGNED	GCB
CHECKED	WKJ
OC	
SHEET 302	

WILLIAM K. JOHNSON  
P.E. NO. 41040  
303.333.3333  
NOT VALID FOR USE ON THIS BLOCK UNLESS SIGNED BY THE BLOCK

ORIGINAL	JULY 2012
REVISIONS:	
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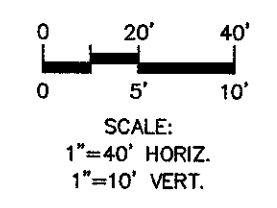
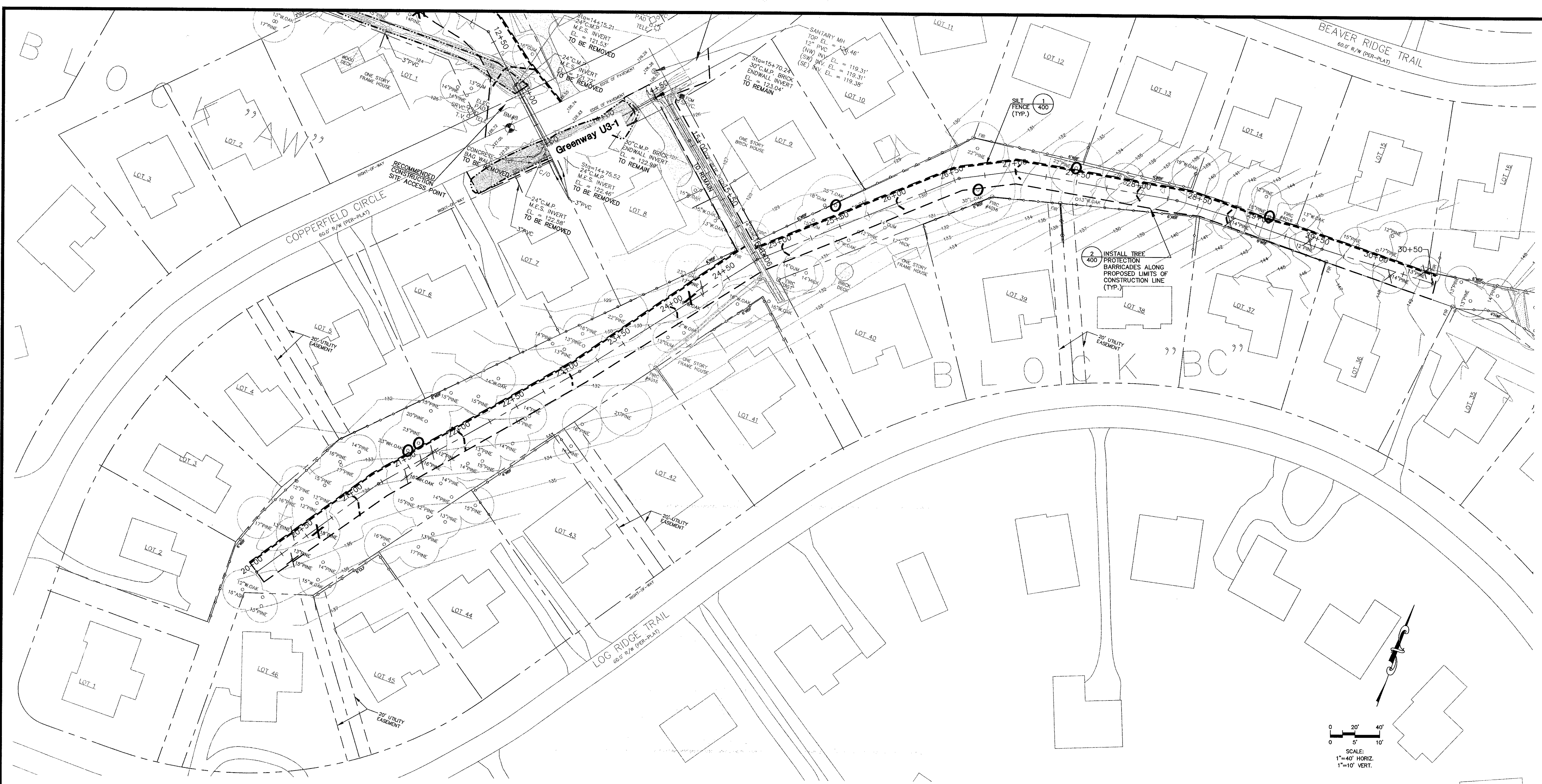
TASK  
**Greenway U3-1  
DEMOLITION  
AND EROSION  
CONTROL PLAN**

PROJECT  
**Killbuck Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



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**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
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1. PRIOR TO BEGINNING CONSTRUCTION SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE APPROPRIATE PERMIT AGENCIES, AS DIRECTED BY LEON COUNTY PUBLIC WORKS.
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**LEGEND**

- FULL LEGEND SHOWN ON SHEET 200
- FEMA FIRM FLOODPLAIN ZONE "A"
  - TILGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
  - PROPOSED IMPACTS TO WETLANDS OR OTHER SURFACE WATERS
  - M-4 FIELD LOCATED WETLAND OR OTHER SURFACE WATERS FLAGS AND LINES
  - WETLAND NFWMD AND ACOE WETLAND UNLESS OTHERWISE NOTED
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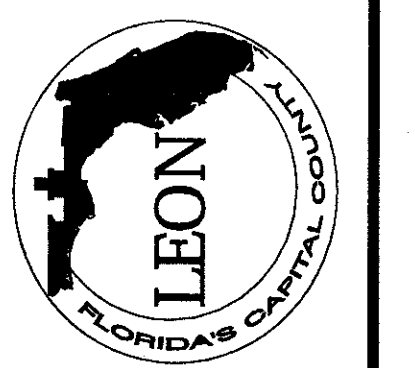
JOB NO. 100014954  
DRAWN MR  
DESIGNED GCB  
CHECKED WKJ  
OC  
SHEET 303

WILLIAM K. JOHNSON  
P.E. NO. 41040  
*[Signature]*  
REGISTERED PROFESSIONAL ENGINEER  
IN THE STATE OF FLORIDA

ORIGINAL JULY 2012  
REVISIONS:  
1  
2  
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4  
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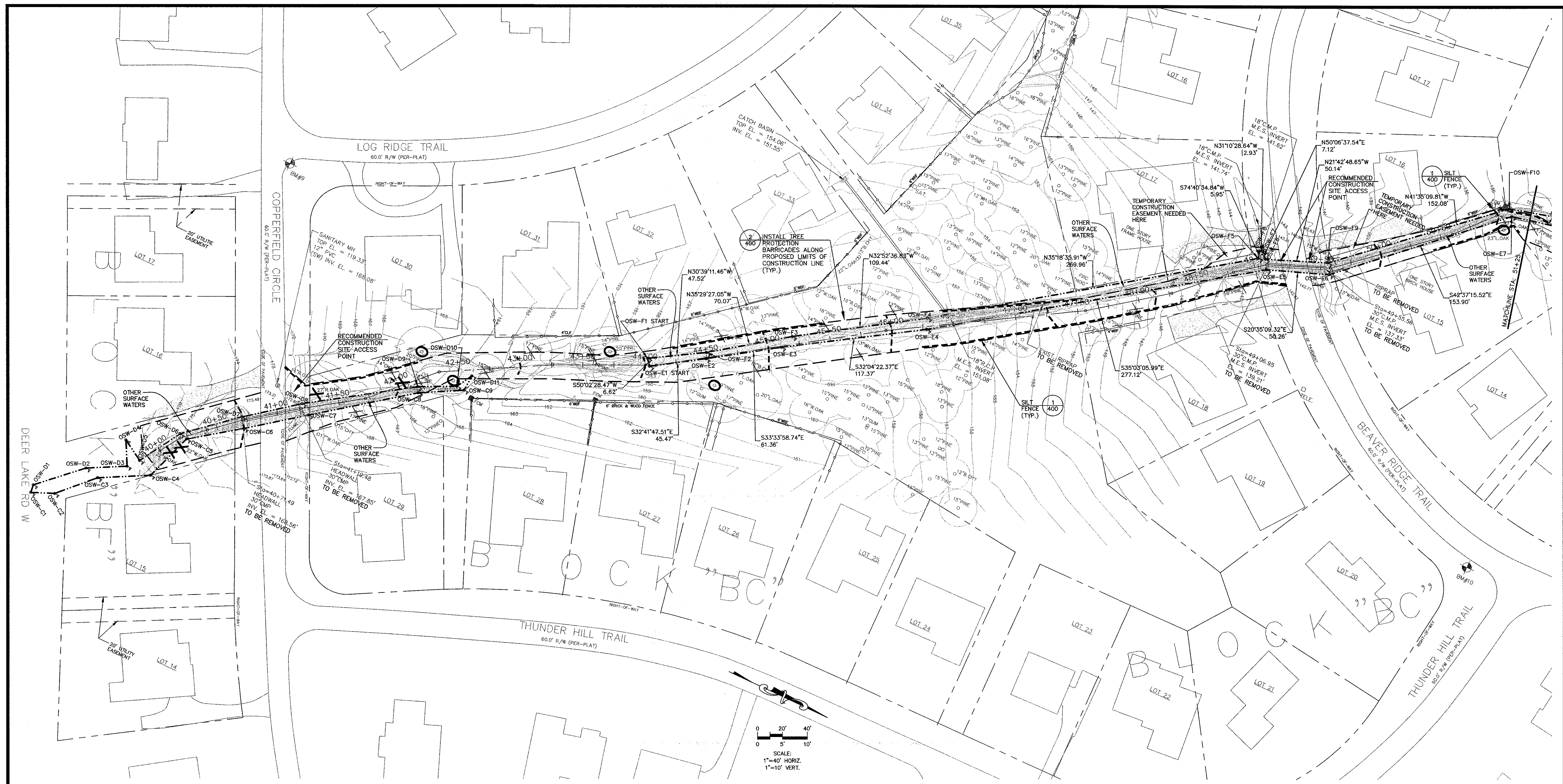
**Greenway U3-2  
DEMOLITION  
AND EROSION  
CONTROL PLAN**

**Killearn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



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**ATKINS**  
2839 N. Monroe St., Building C  
Tallahassee, Florida 32303  
850.575.1800  
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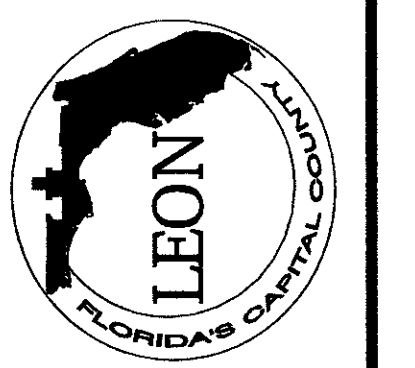


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 DESIGNED GCB  
 CHECKED WKJ  
 OC  
 SHEET 304

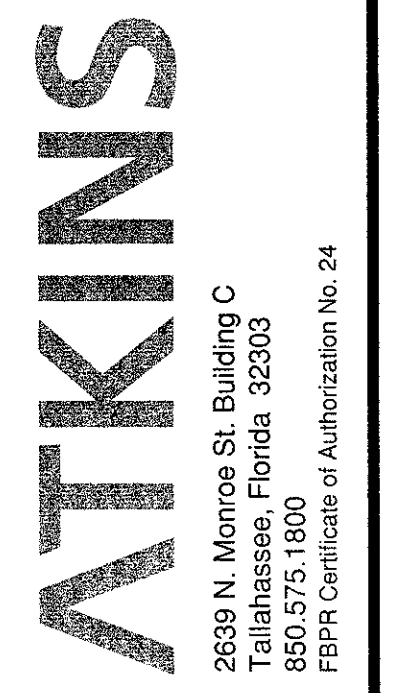
WILLIAM K. JOHNSON  
 P.E. NO. 41040  
 JULY 2012  
 ORIGINAL REVISIONS:  
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TASK  
**Greenway U3-3  
 DEMOLITION  
 AND EROSION  
 CONTROL PLAN**

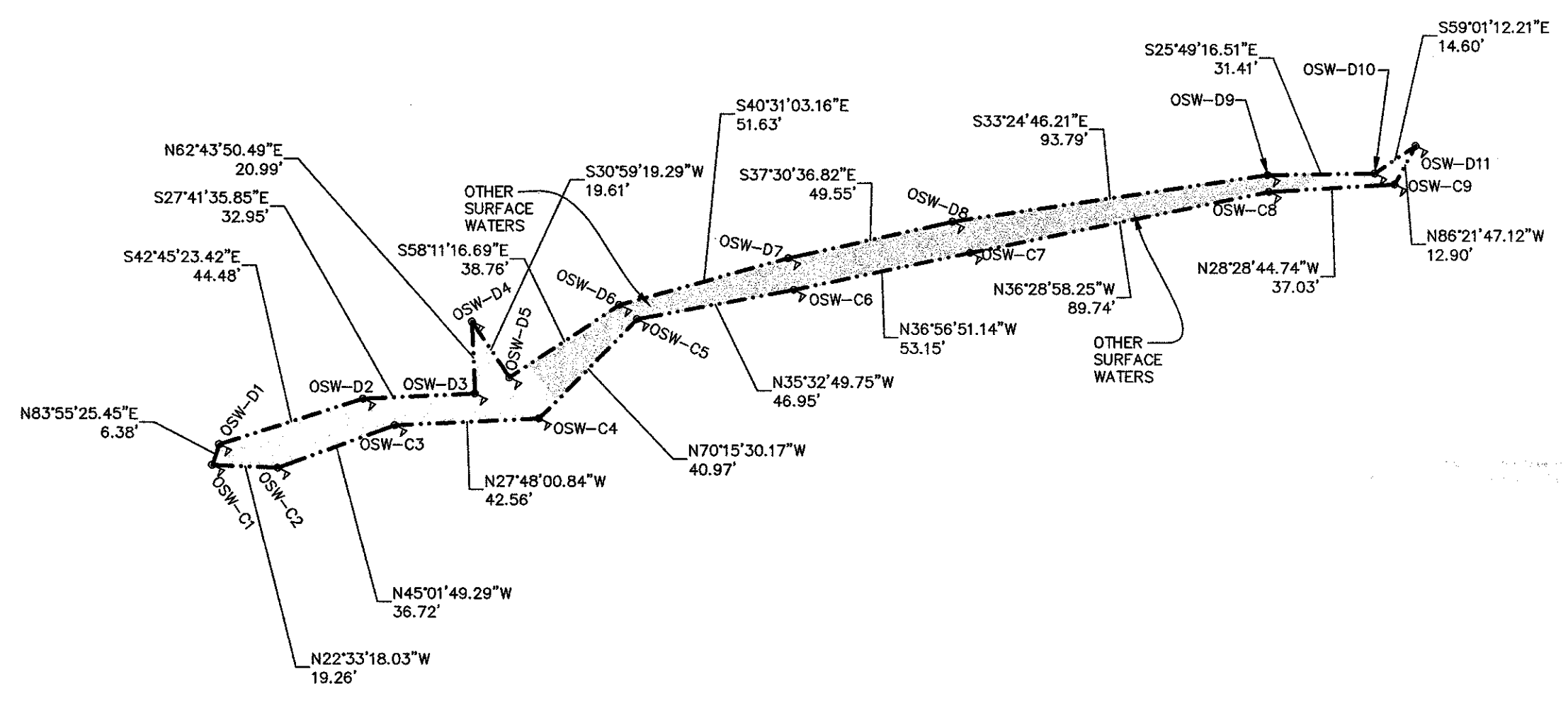
PROJECT  
**Killbuck Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



CLIENT



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OTHER SURFACE WATERS DESCRIPTION  
 FROM OSW-C1 TO OSW-C9 AND OSW-D1 TO OSW-D11

CONSTRUCTION SEQUENCE:

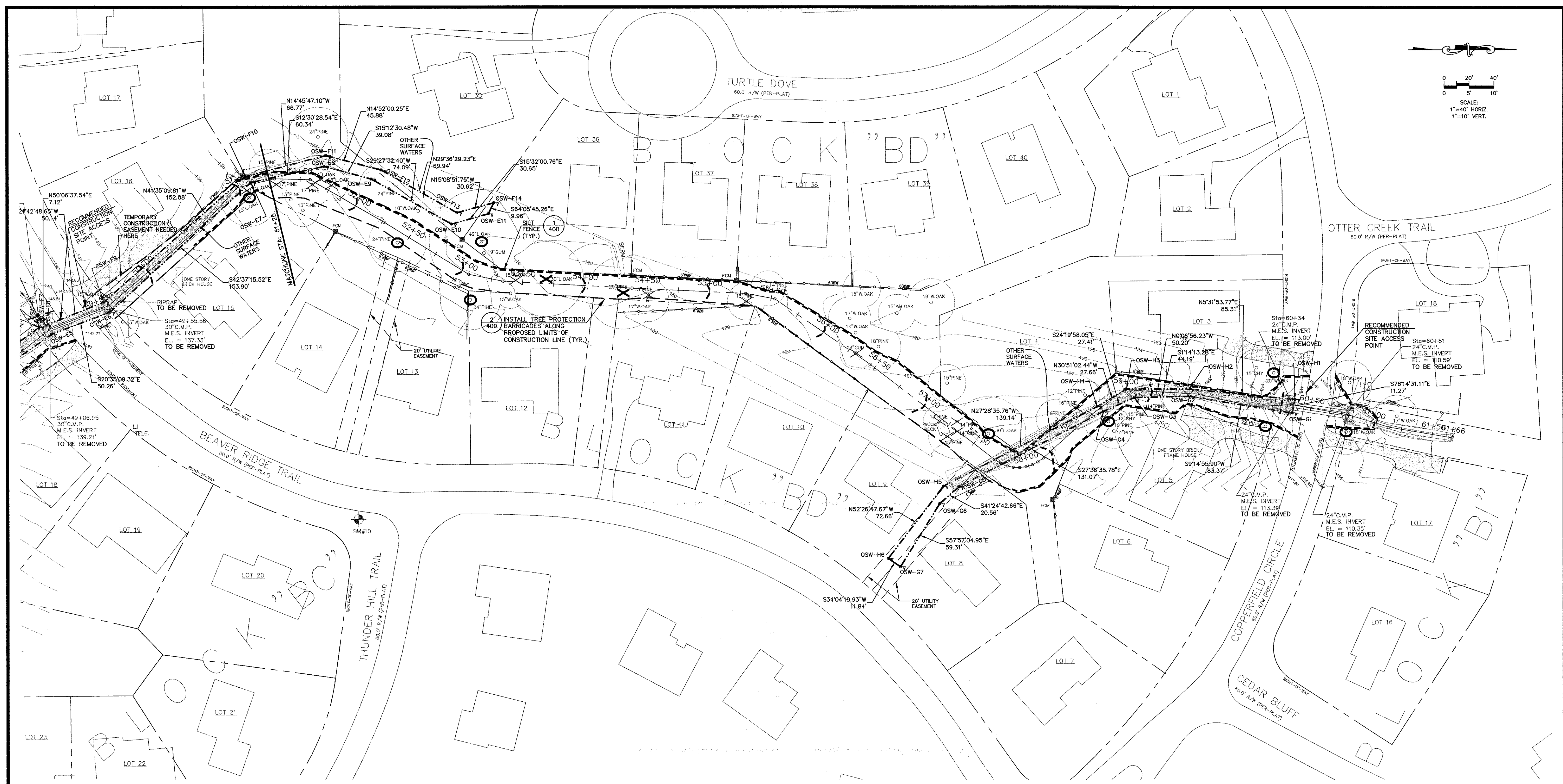
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LEGEND

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  - TLOGIS ESA WETLANDS
  - PROPOSED SILT FENCE
  - PROPOSED LIMITS OF CONSTRUCTION
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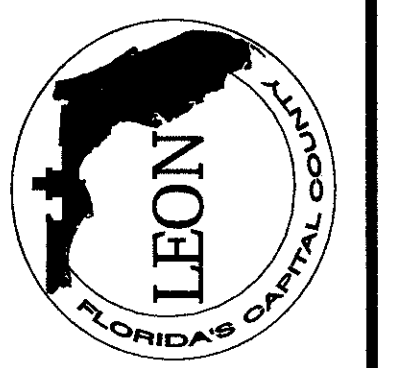


JOB NO. 100014954  
 MR. MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 QC  
 SHEET 305

WILLIAM K. JOHNSON  
 P.E. NO. 41640  
 JULY 2012  
 ORIGINAL REVISIONS:  
 1  
 2  
 3  
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**Greenway U3-3  
 DEMOLITION  
 AND EROSION  
 CONTROL PLAN**

PROJECT  
**Killdean Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



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**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

**CONSTRUCTION SEQUENCE:**

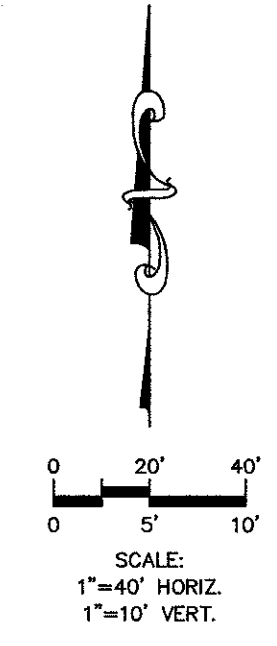
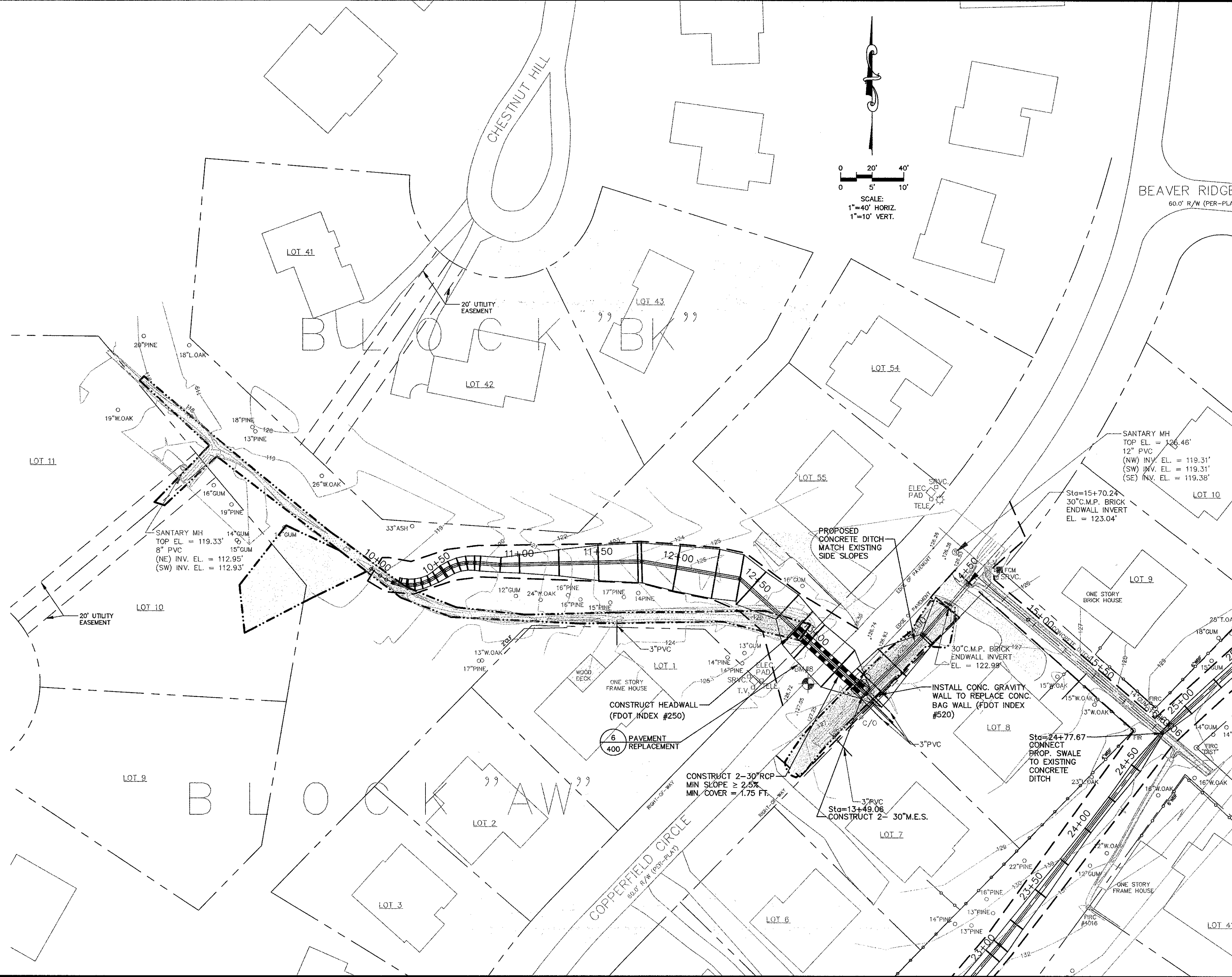
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- FEMA FIRM FLOODPLAIN ZONE "A"
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  - PROPOSED SILT FENCE
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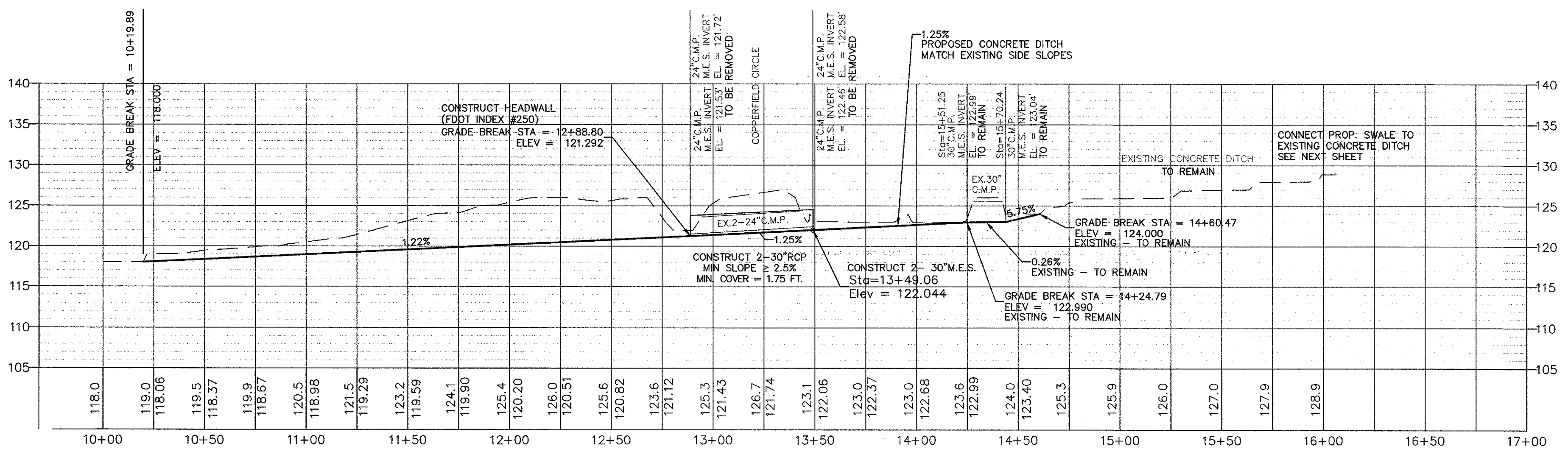


### LEGEND

FULL LEGEND SHOWN ON SHEET 200

- PROPOSED LIMITS OF CONSTRUCTION
- - - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



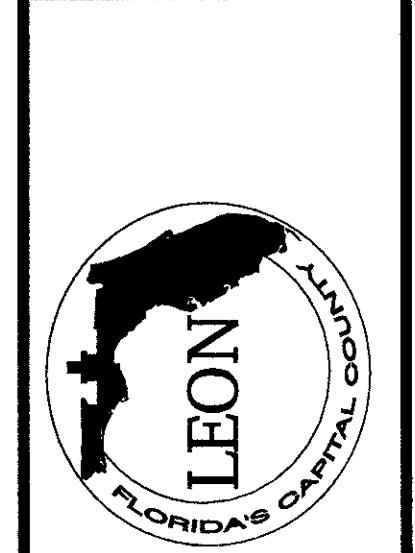
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DRAWN	MIR
DESIGNED	GCB
CHECKED	WKJ
CC	CC

WILLIAM K. JOHNSON  
P.E. NO. 71040  
SEAL  
NOT VALID FOR ANY OTHER PROJECTS  
UNLESS SPECIFICALLY NOTED

ORIGINAL	JULY 2012
REVISIONS:	
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TASK  
**Greenway U3-1  
DRAINAGE  
PLAN AND PROFILE**

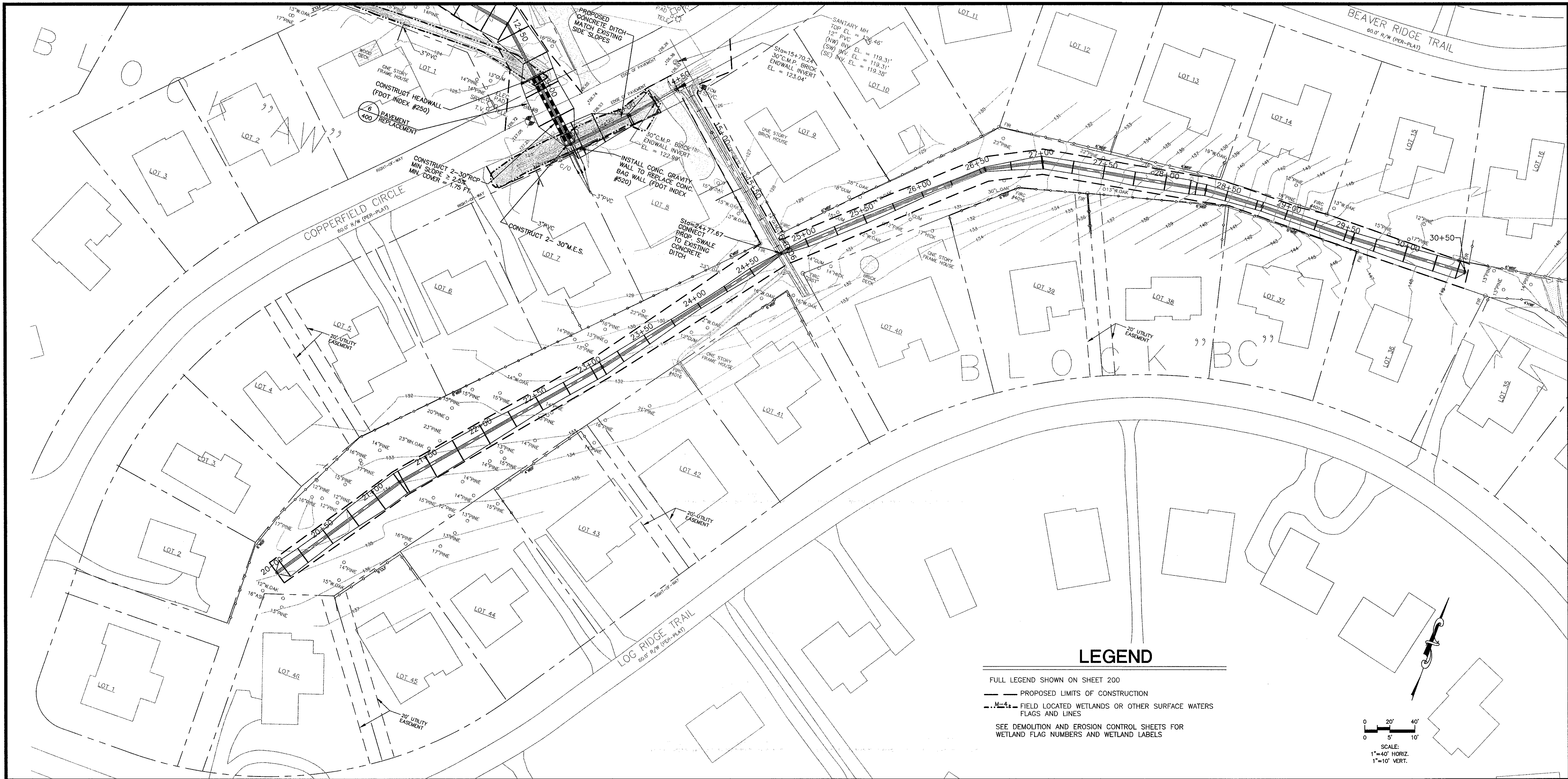
PROJECT  
**Killarn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

SHEET 306



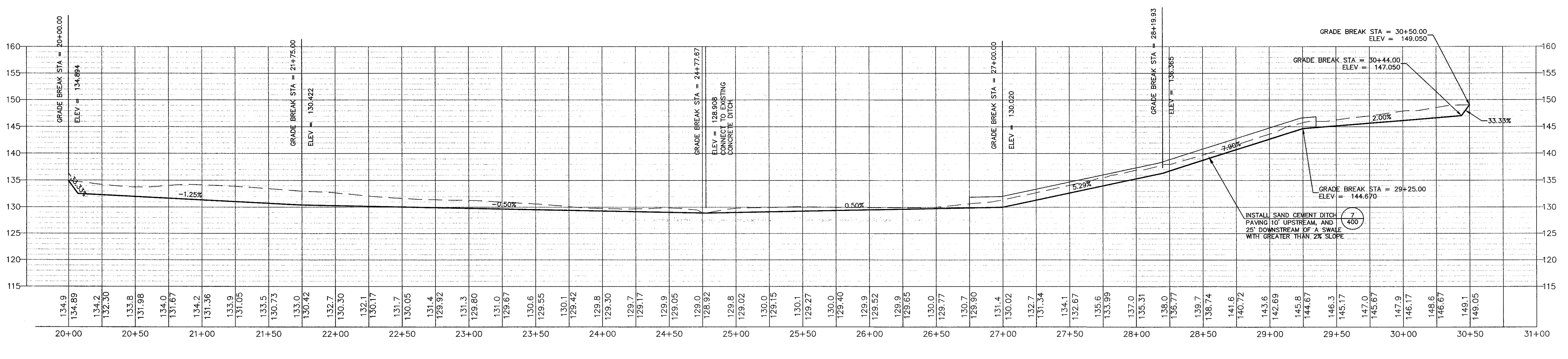
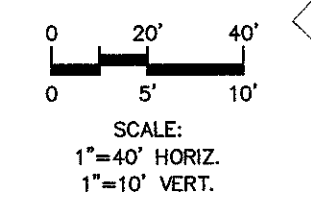
**LEGEND**

FULL LEGEND SHOWN ON SHEET 200

— PROPOSED LIMITS OF CONSTRUCTION

- - - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



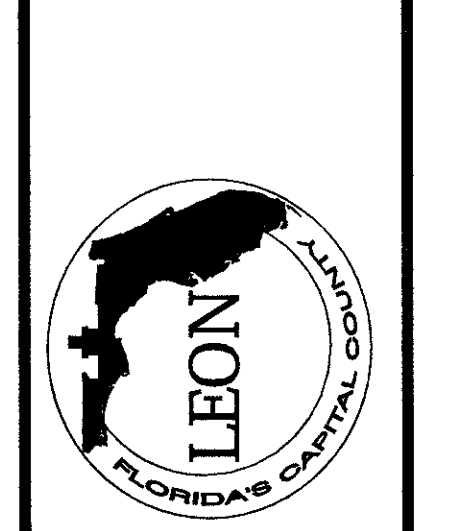
JOB NO. 100014854  
 DRAWN MR.  
 DESIGNED GCB  
 CHECKED WKJ  
 CC

WILLIAM K. JOHNSON  
 P.E. NO. 41049  
 10/13/12  
 10/13/12

ORIGINAL: JULY 2012  
 REVISIONS:  
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 3  
 4  
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TASK  
**Greenway U3-2  
 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killbuck Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

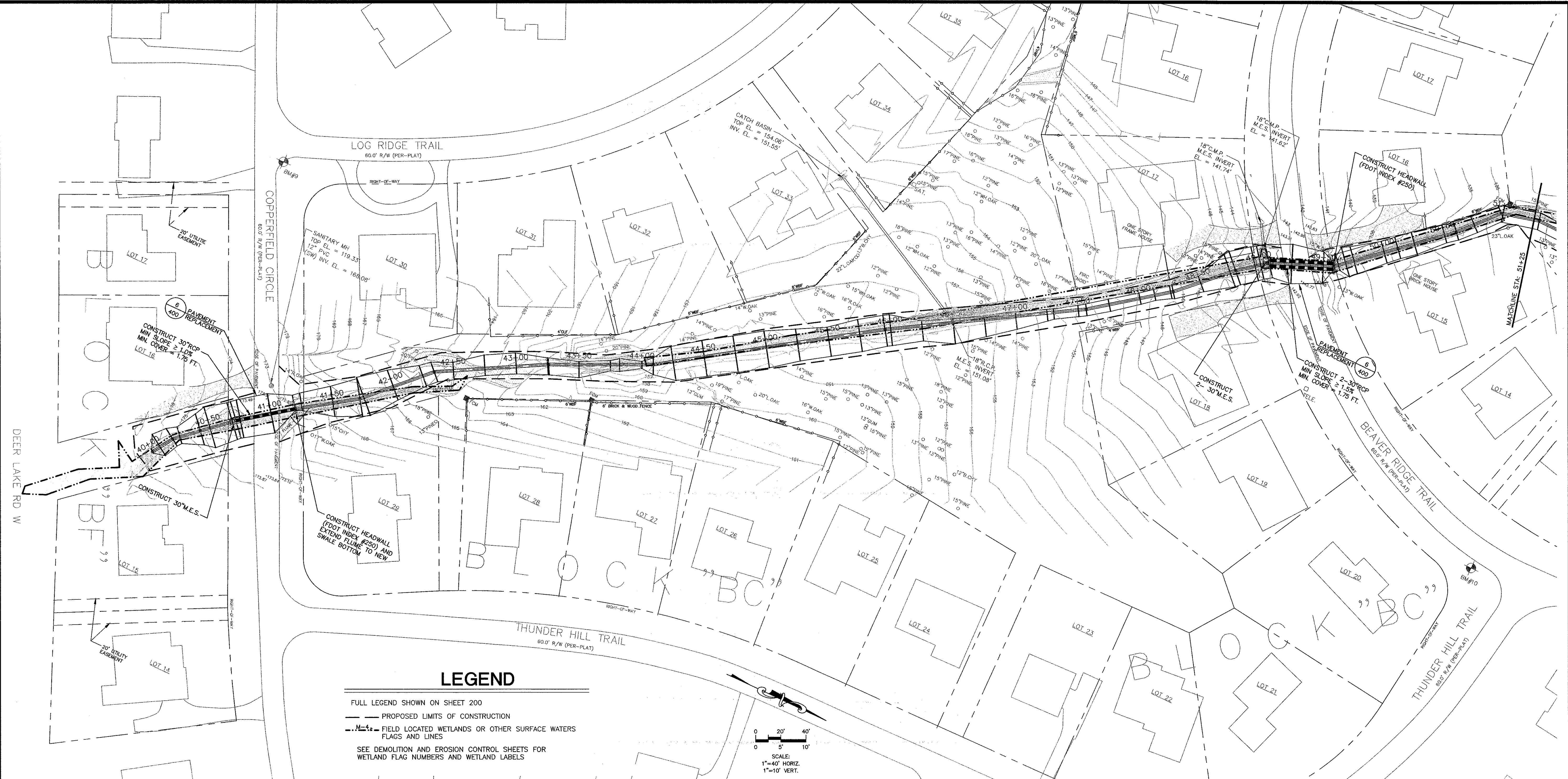


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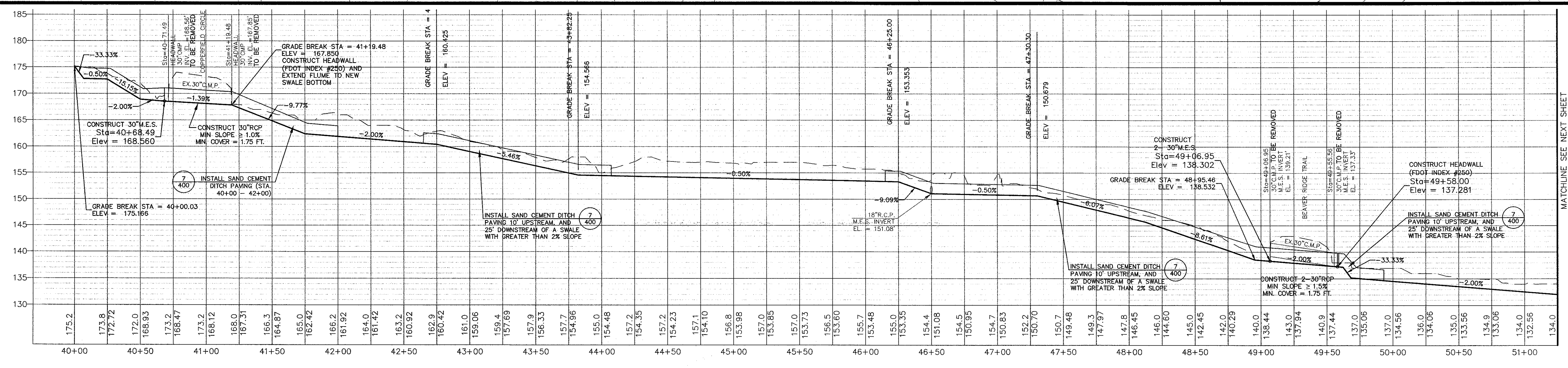
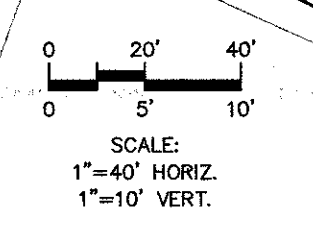


### LEGEND

FULL LEGEND SHOWN ON SHEET 200

- PROPOSED LIMITS OF CONSTRUCTION
- FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLAGS AND LINES

SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



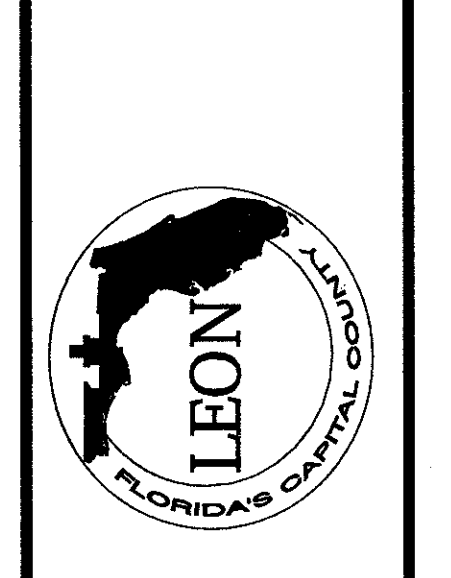
JOB NO. 100014954  
MR. GCB  
DRAWN BY GCB  
DESIGNED BY WKJ  
CHECKED BY OC  
SHEET 308

WILLIAM K. JOHNSON  
P.E. NO. 41640  
[Signature]  
NOT VALID FOR ANY OTHER PROJECT UNLESS REPRODUCED BY THIS FIRM

ORIGINAL: JULY 2012  
REVISIONS:  
1  
2  
3  
4  
5

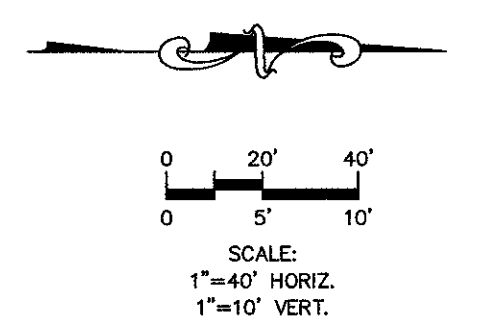
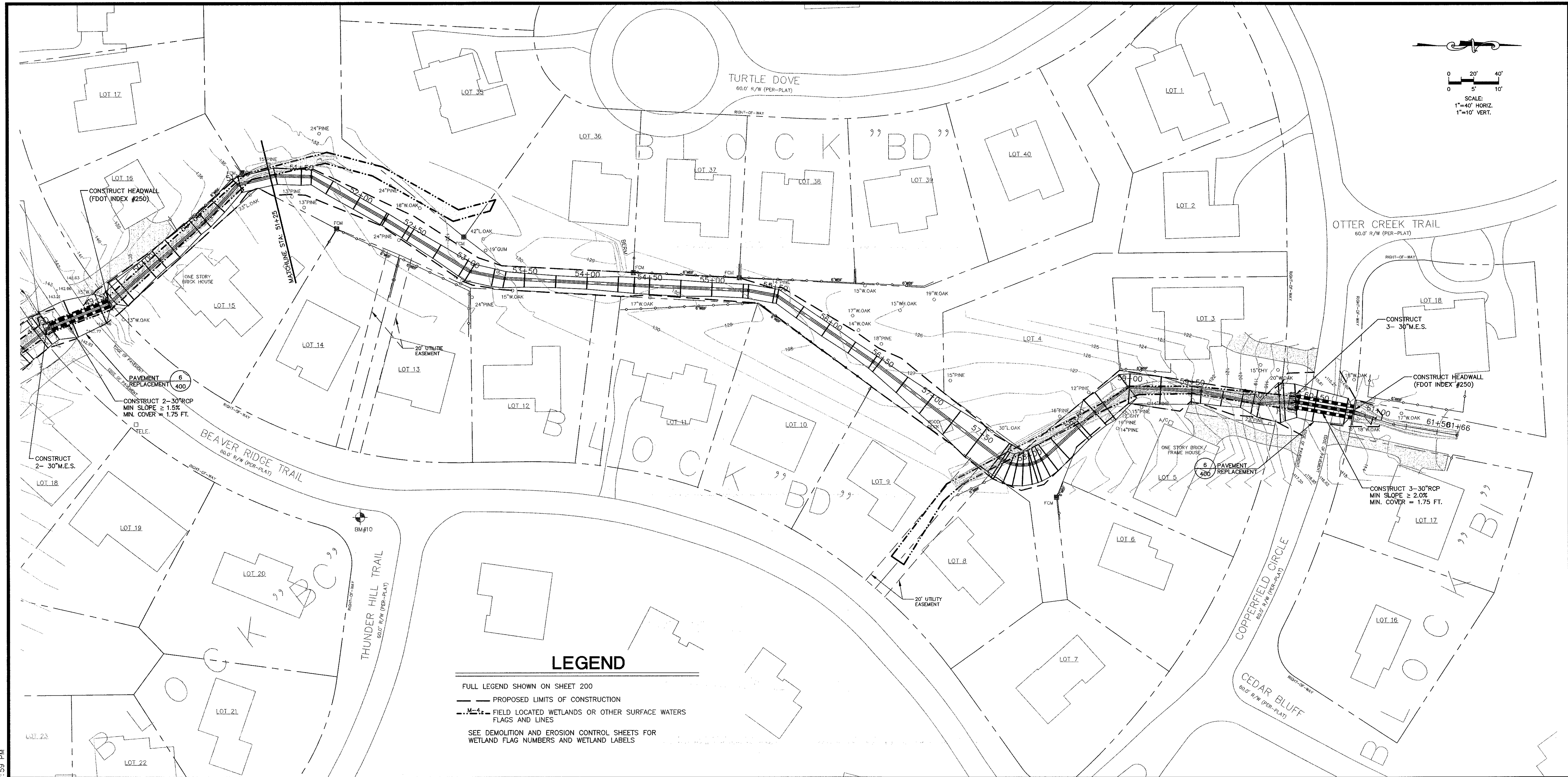
TASK  
**Greenway U3-3  
DRAINAGE  
PLAN AND PROFILE**

PROJECT  
**Killam Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1**



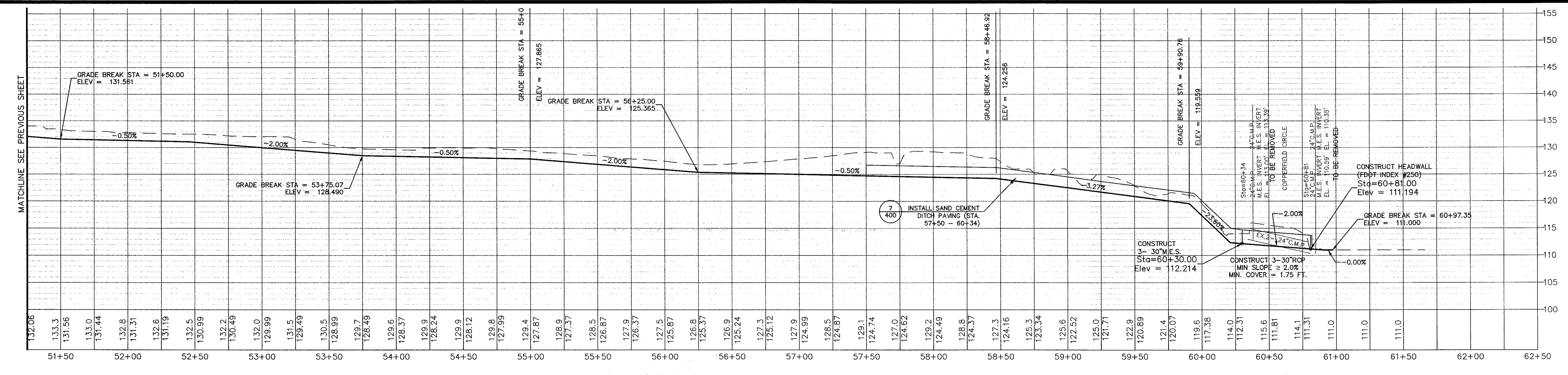
CLIENT  
**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

H:\CIVIL\Killam-Lakes-Stormwat-Greenways\Cds-Pn1\Base-Unit-3.dwg 07/13/2012 04:07:59 PM



### LEGEND

- FULL LEGEND SHOWN ON SHEET 200
- PROPOSED LIMITS OF CONSTRUCTION
- - - FIELD LOCATED WETLANDS OR OTHER SURFACE WATERS FLATS AND LINES
- SEE DEMOLITION AND EROSION CONTROL SHEETS FOR WETLAND FLAG NUMBERS AND WETLAND LABELS



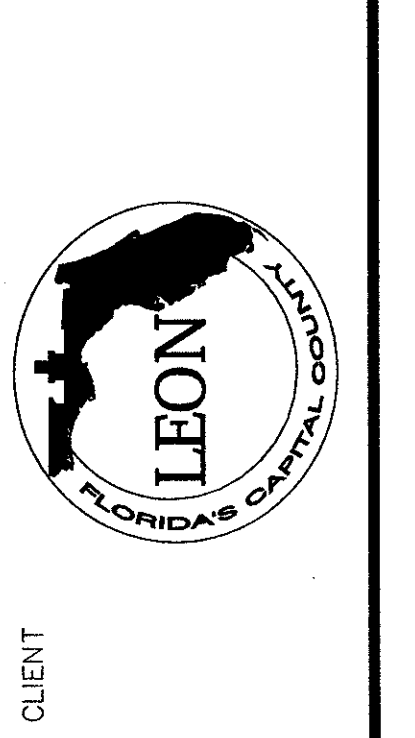
JOB NO.	100014954
MR.	
DESIGNED	GCB
CHECKED	WKJ
CC	
SHEET	309

WILLIAM K. JOHNSON  
P.E. NO. 4040  
10/13/12  
NOT VALID FOR THIS WORK  
UNLESS SIGNED BY THE ENGINEER

ORIGINAL	JULY, 2012
REVISIONS:	
1	
2	
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4	
5	

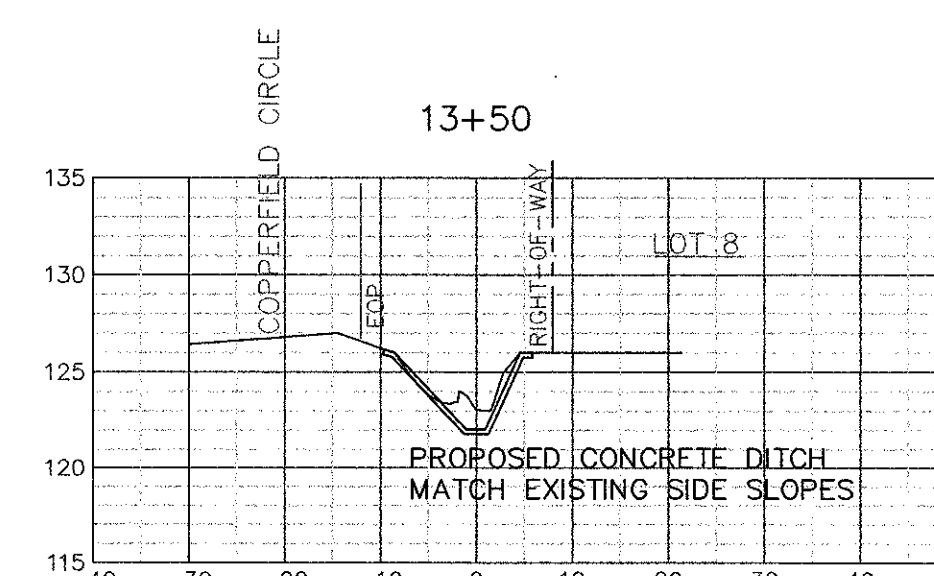
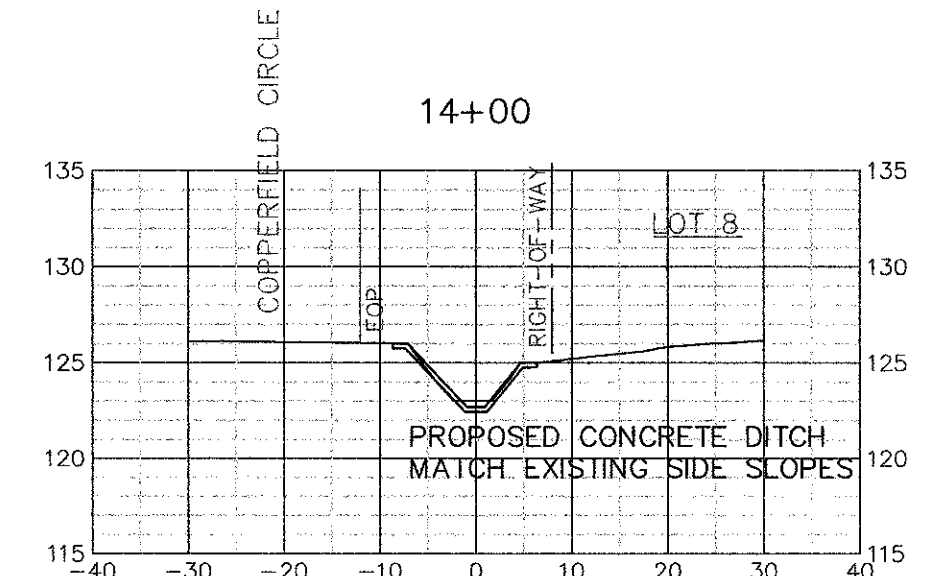
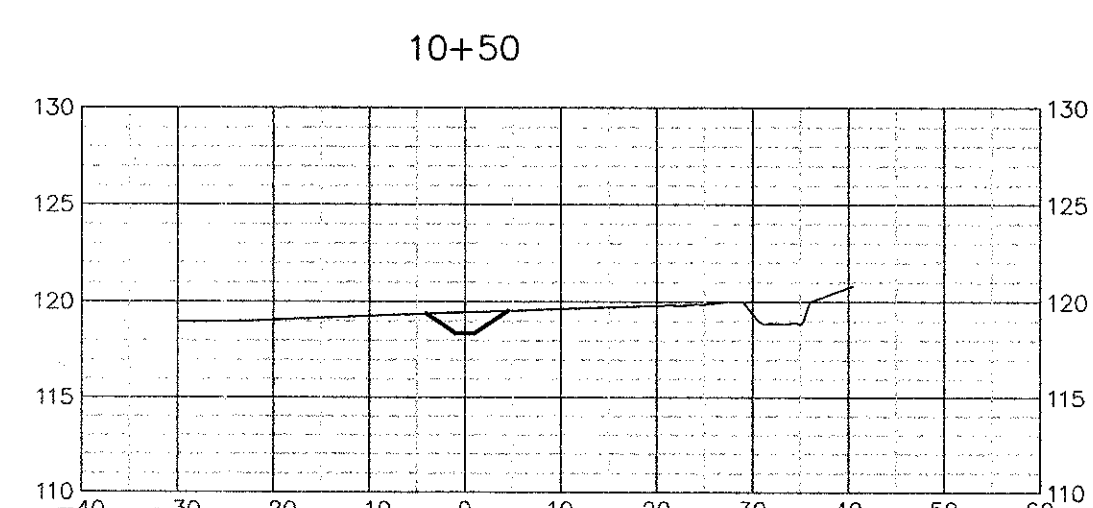
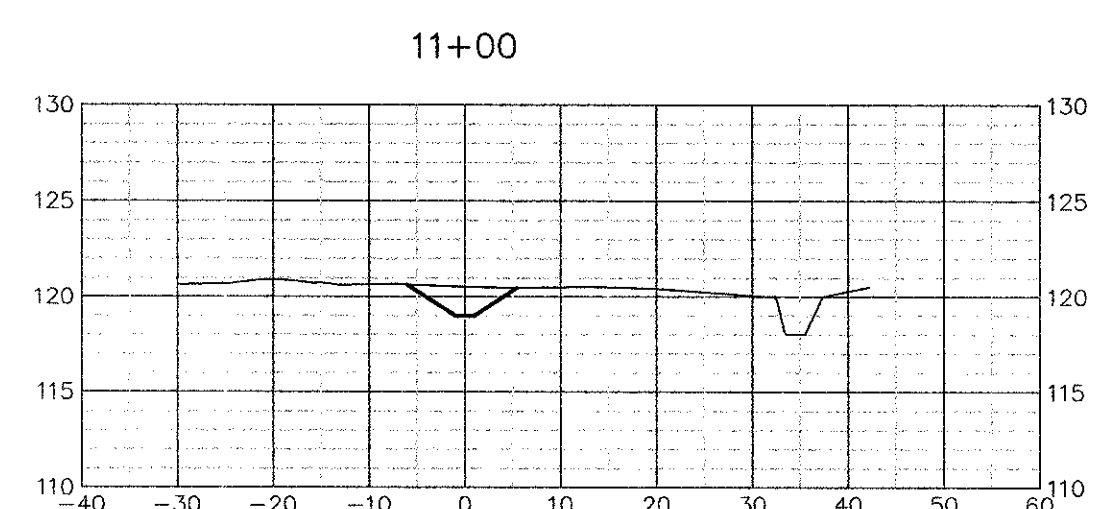
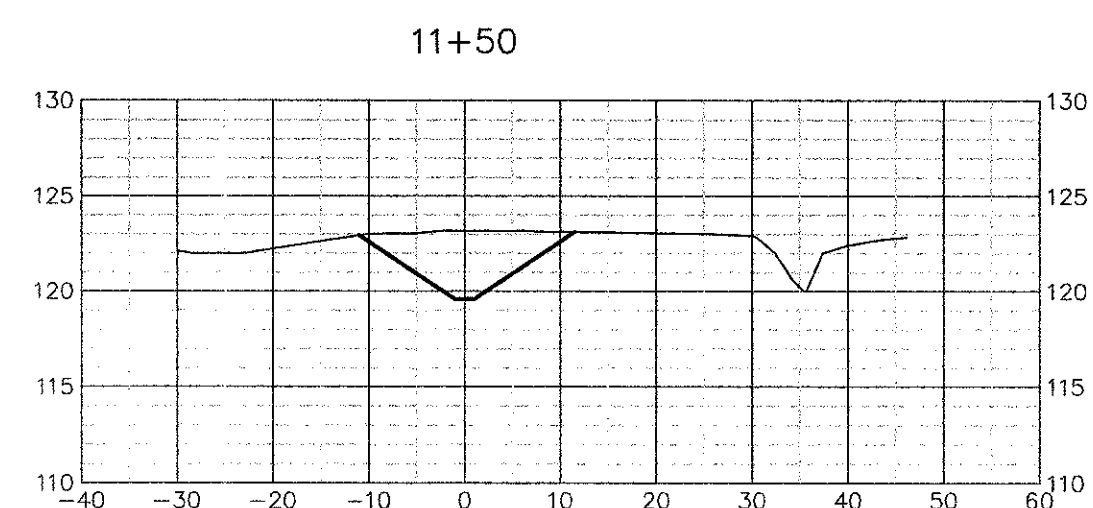
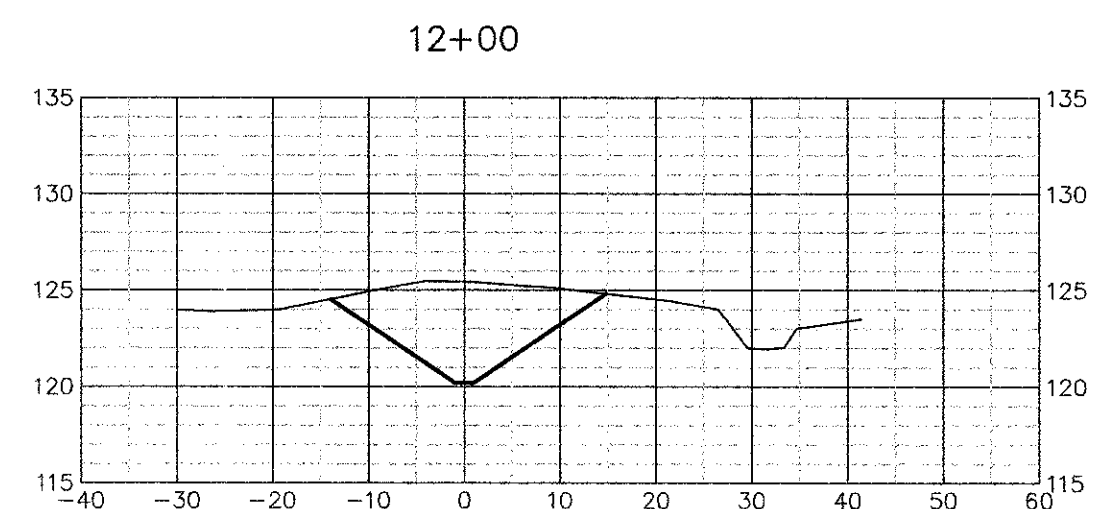
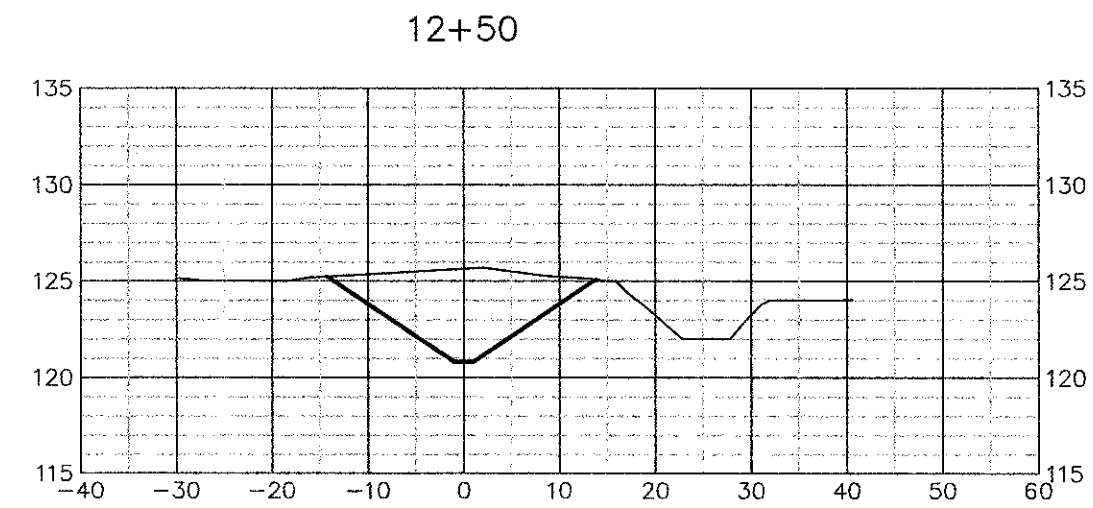
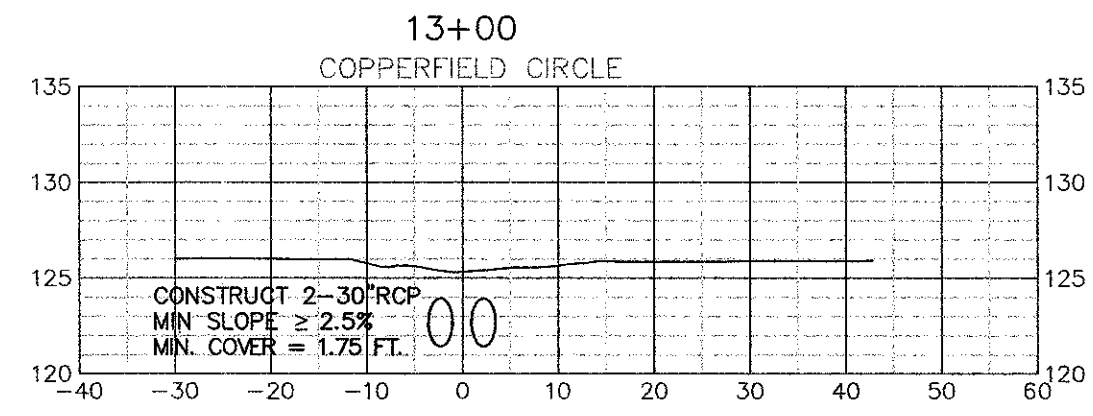
TASK  
**Greenway U3-3  
 DRAINAGE  
 PLAN AND PROFILE**

PROJECT  
**Killam Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**

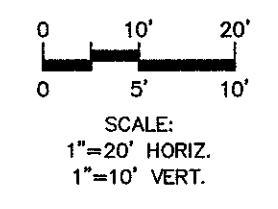
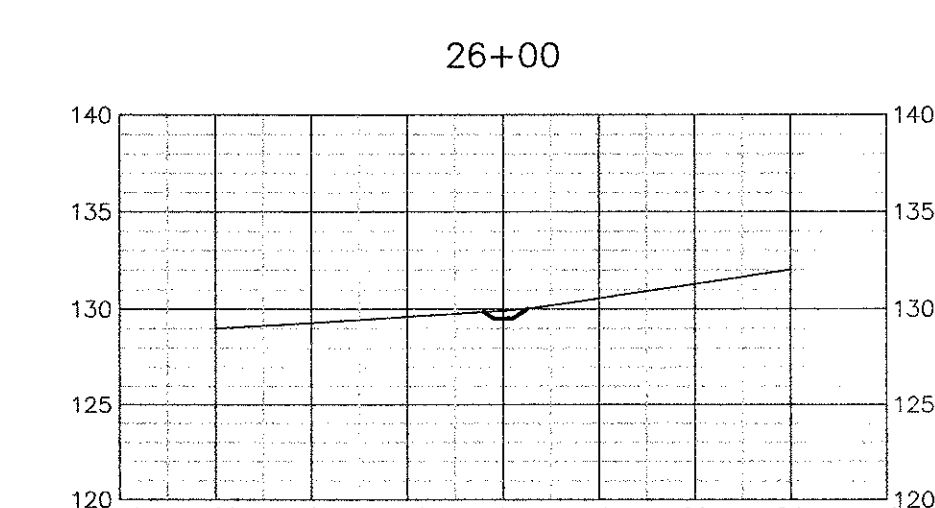
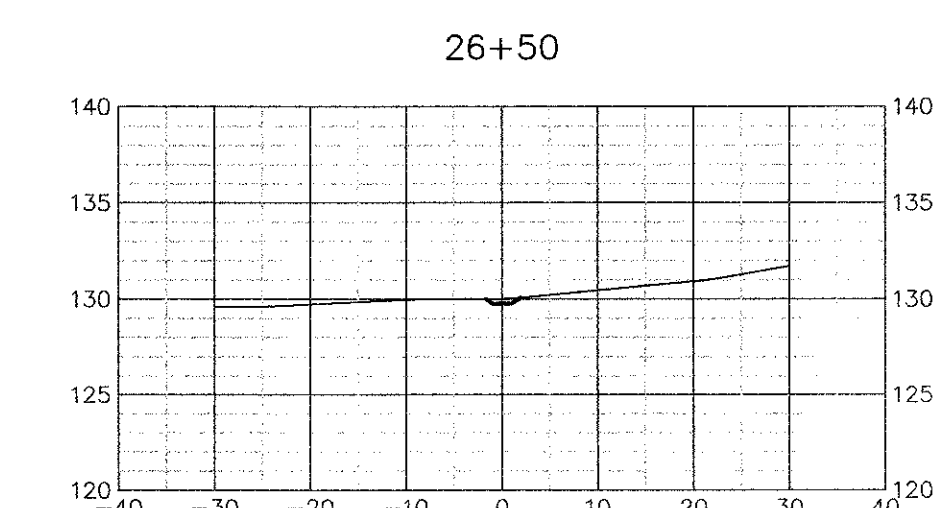
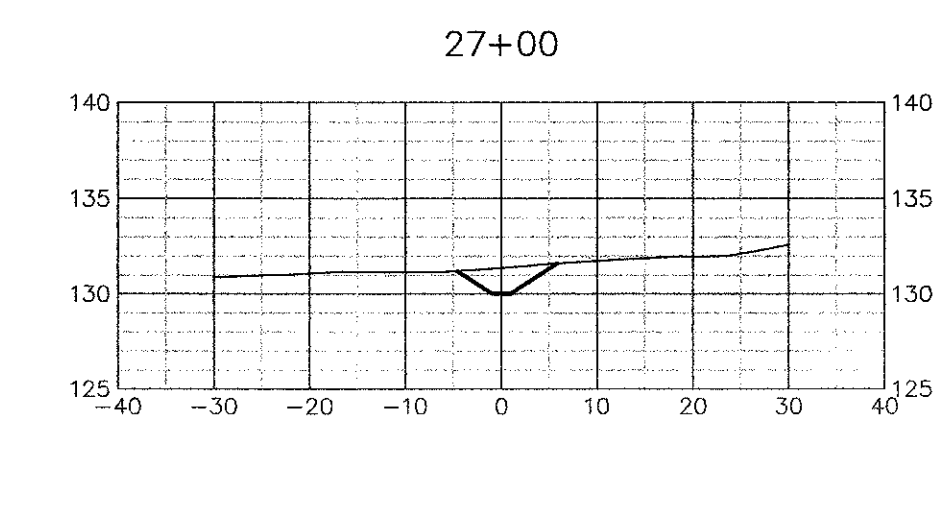
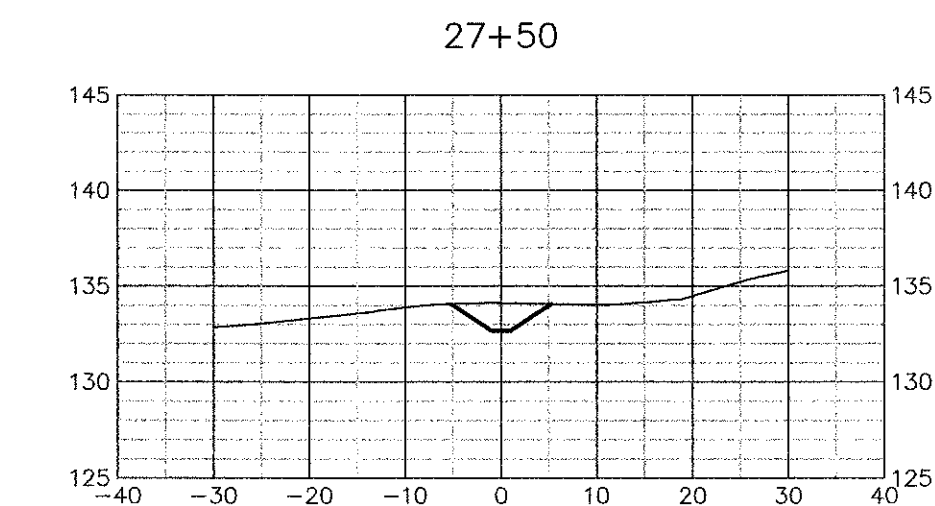
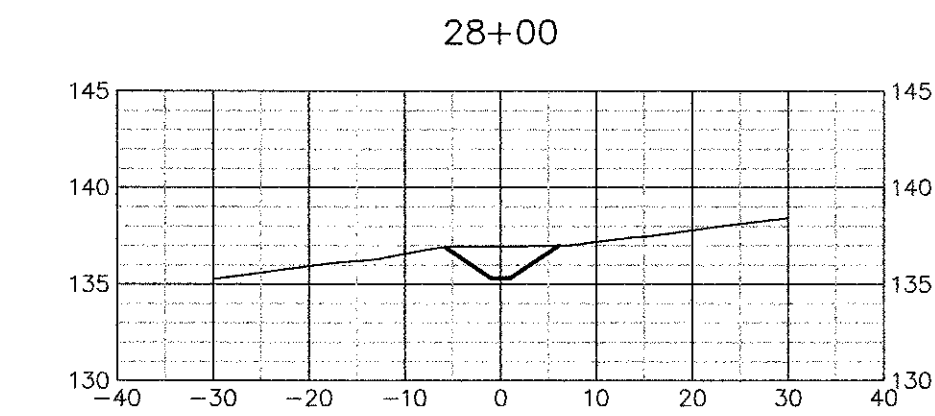
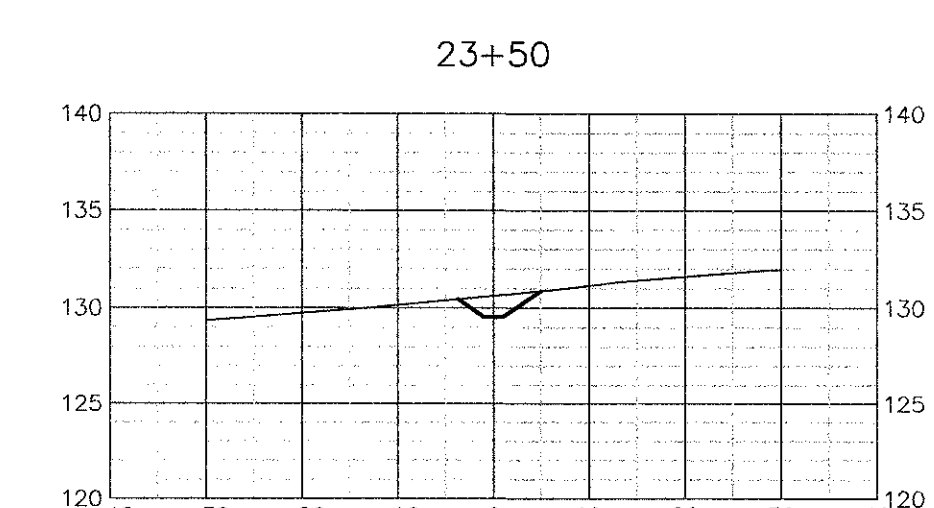
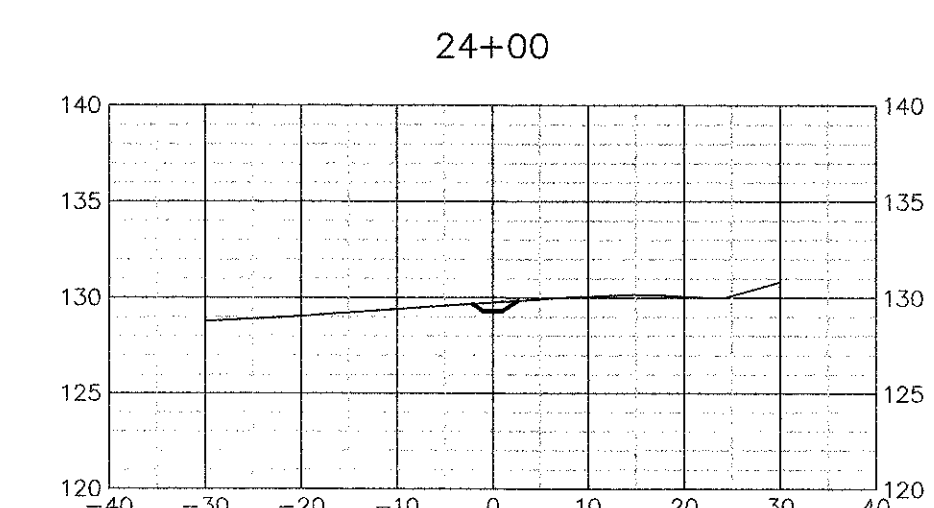
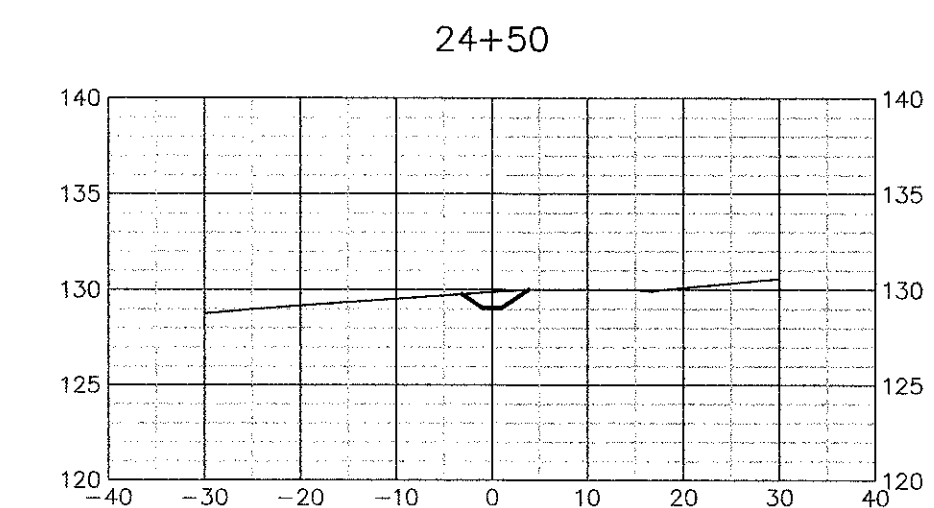
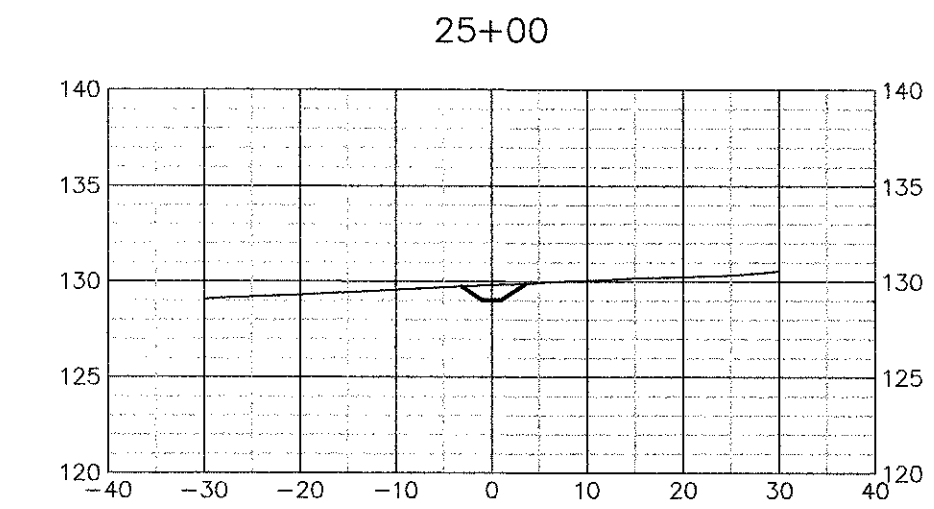
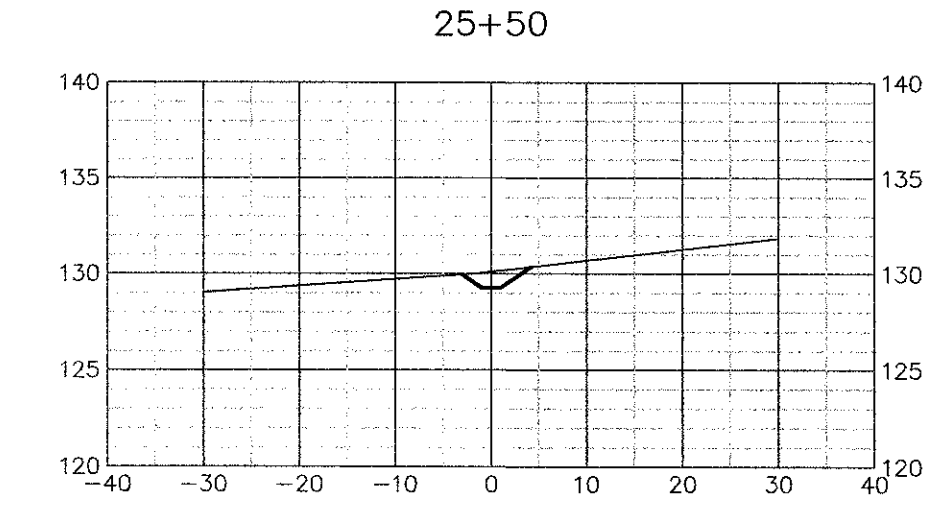
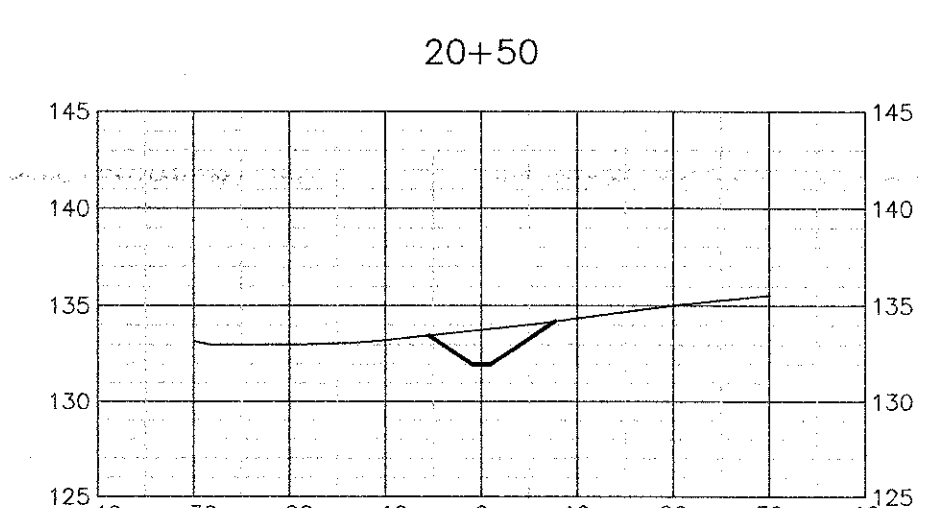
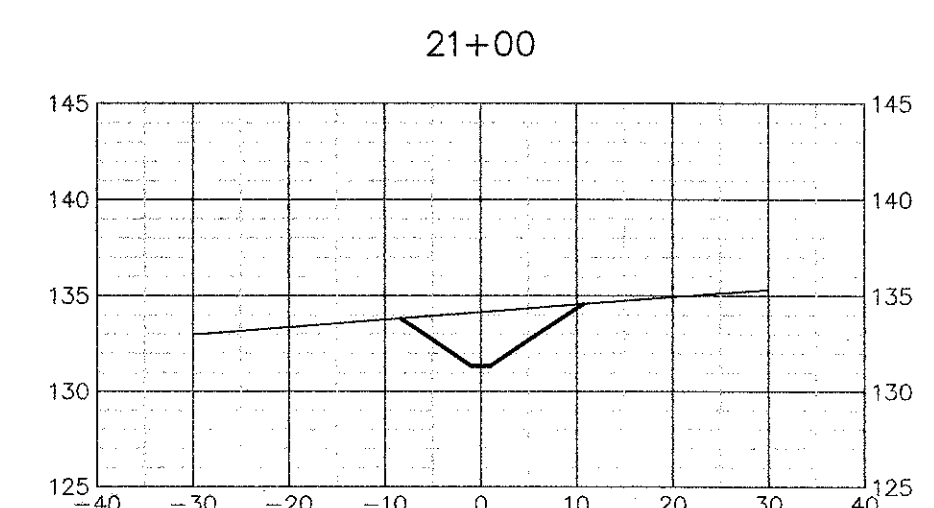
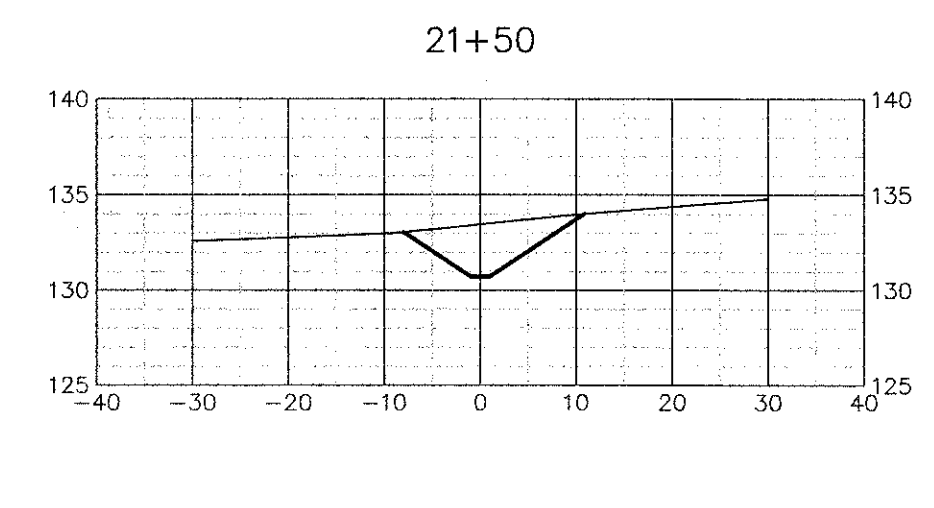
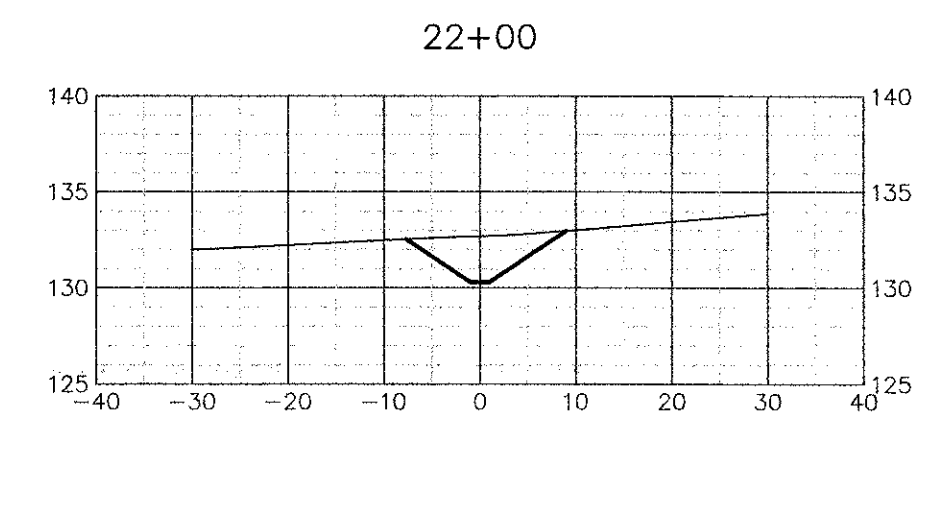
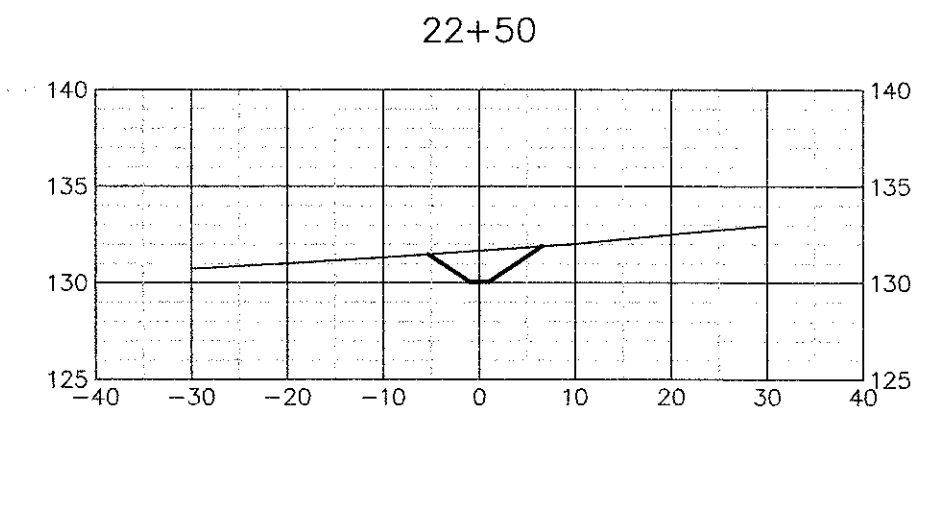
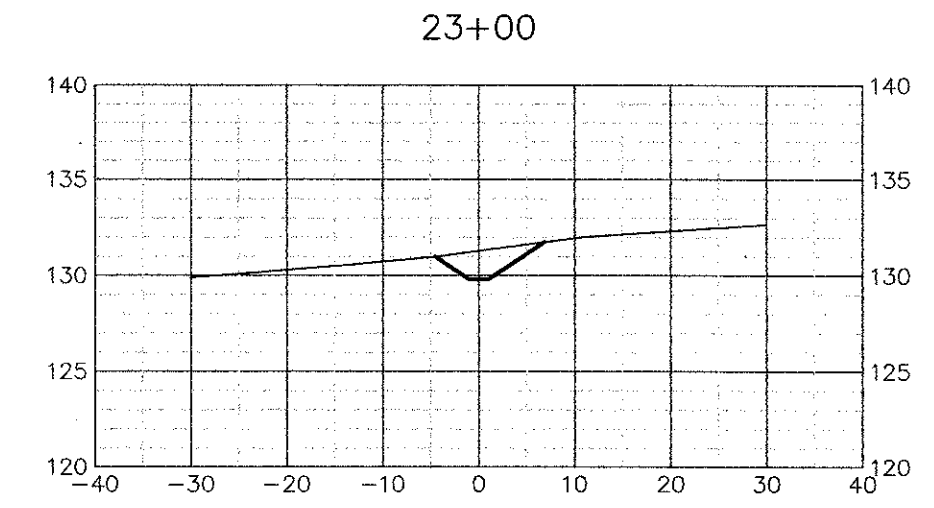


CLIENT  
**ATKINS**  
 2630 N. Monroe St. Building C  
 Tallahassee, Florida 92303  
 904.575.1800  
 FPR Certificate of Authorization No. 24

### Greenways U3-1 CROSS SECTIONS



### Greenways U3-2 CROSS SECTIONS



H:\CIVIL\Killam-Lakes-Sirmwat-Greenways\Cds-Ph1\Base-Unit-3.dwg 05/08/2012 08:30:19 AM

JOB NO. 100014954  
 DRAWN GCB  
 DESIGNED GCB  
 CHECKED WKJ  
 QC  
 SHEET 310

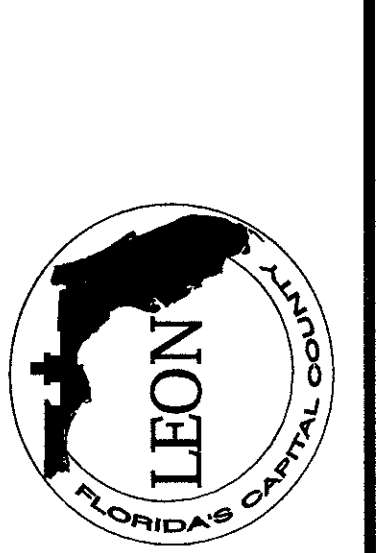
WILLIAM K. JOHNSON  
 P.E. NO. 4046  
 303-313-3333  
 NOT VALID OUTSIDE THIS BLOCK

ORIGINAL MAY 2012

REVISIONS:	1	2	3	4	5

TASK  
**Greenway U3-1 & U3-2  
 CROSS SECTIONS**

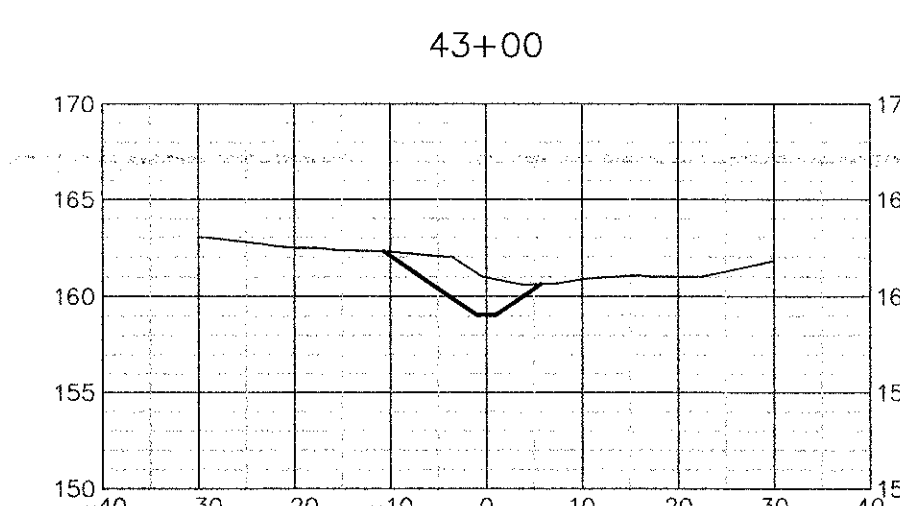
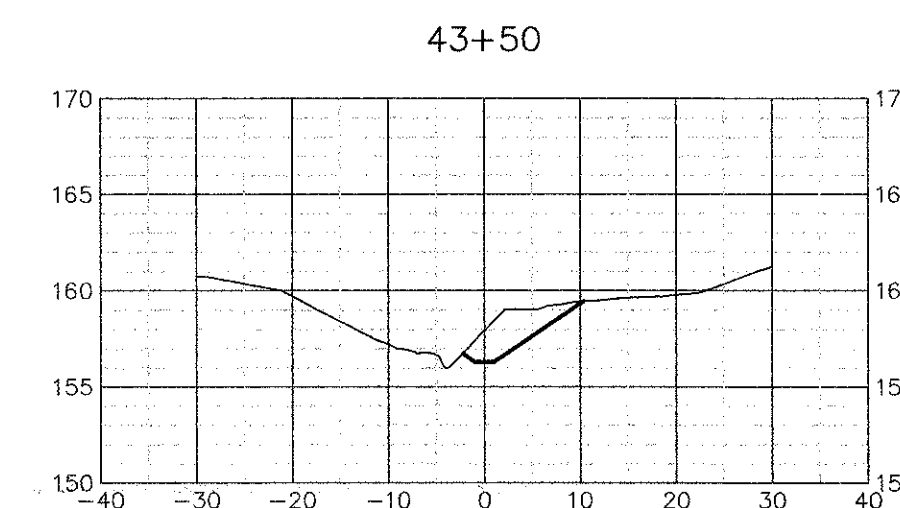
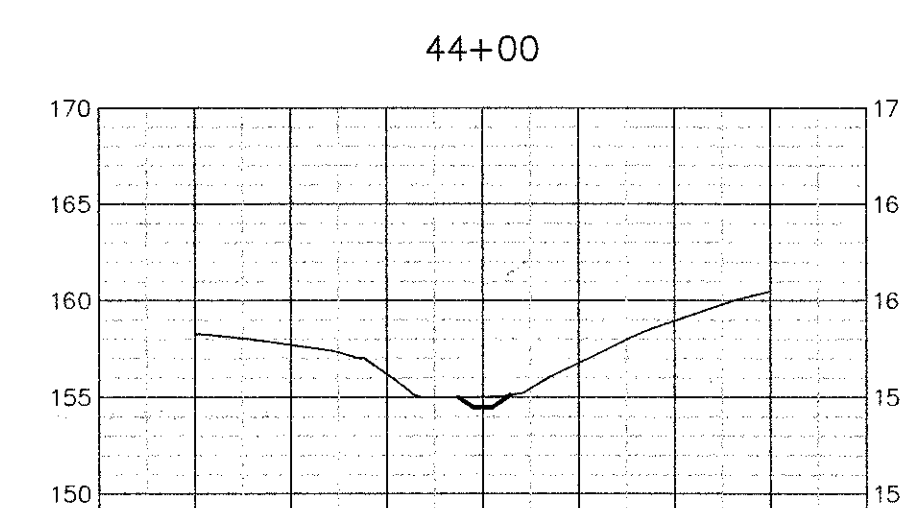
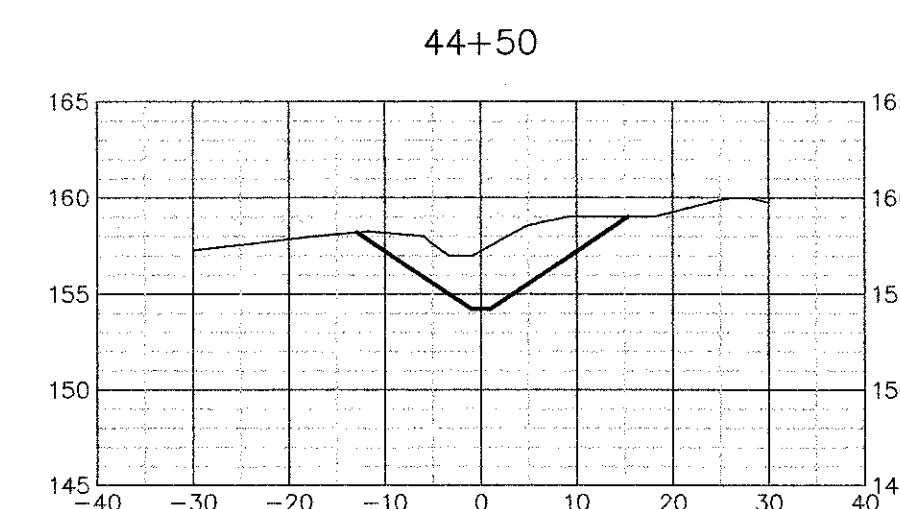
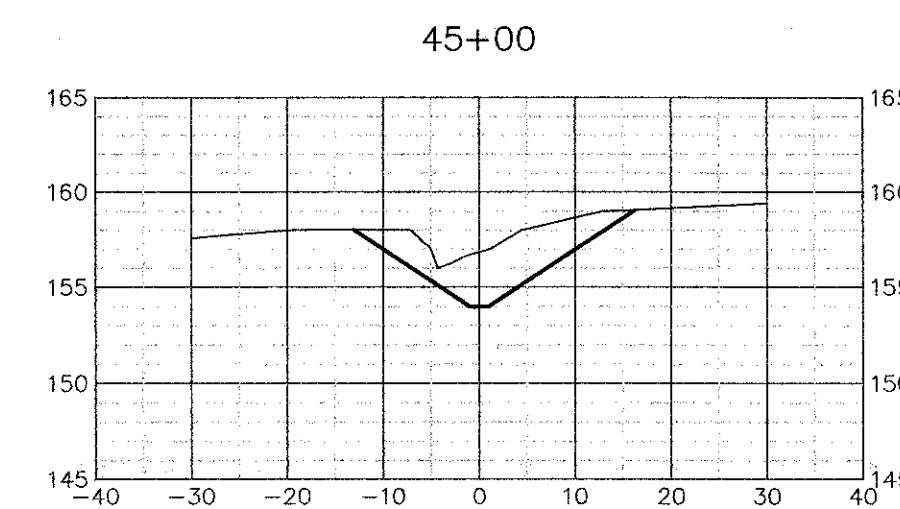
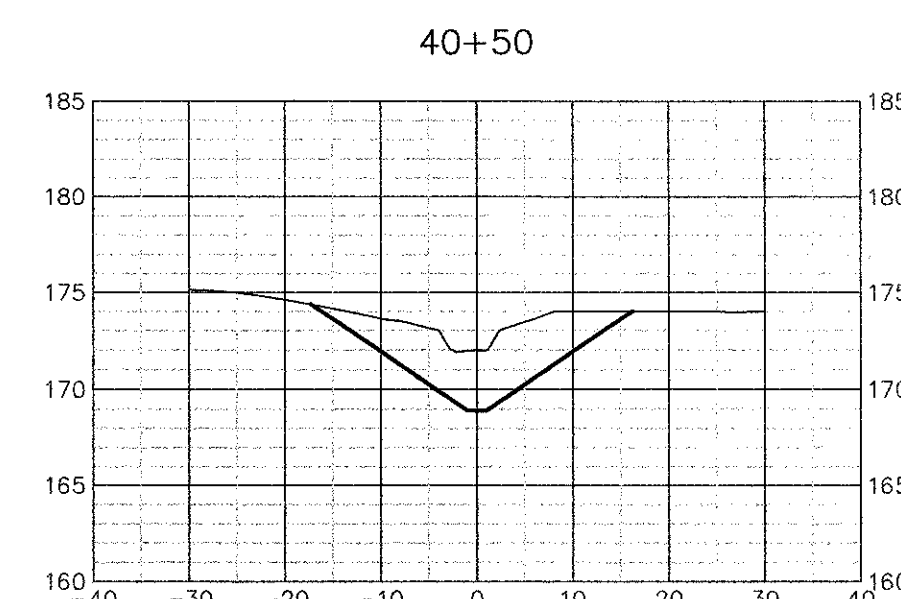
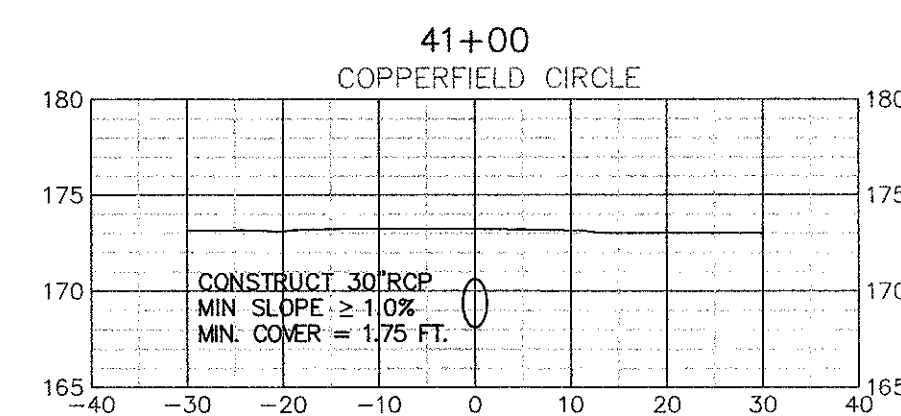
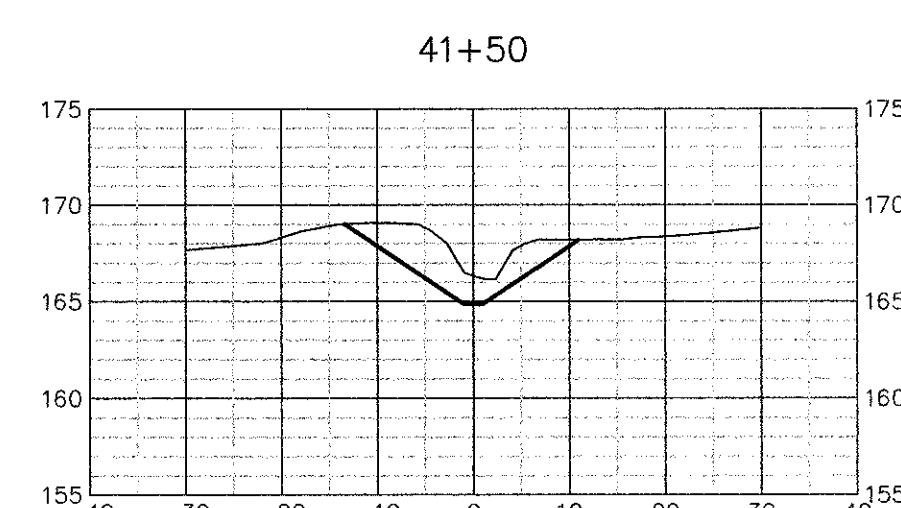
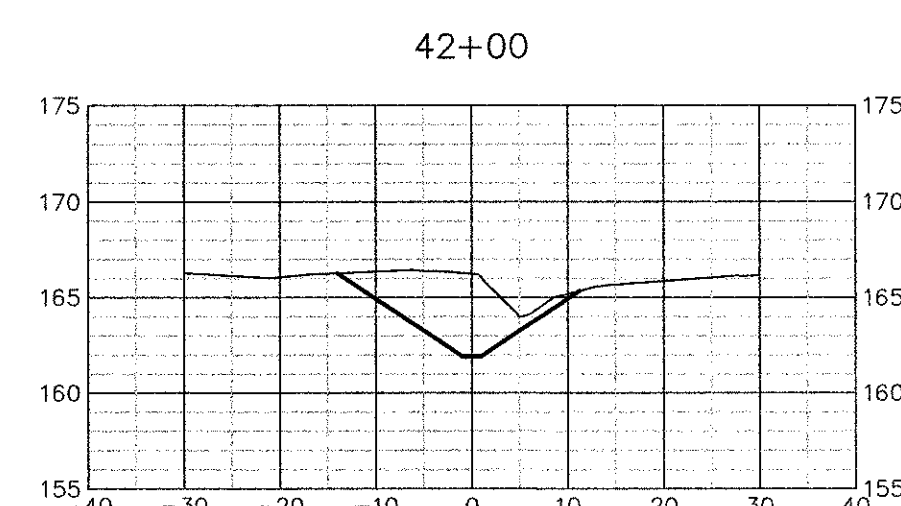
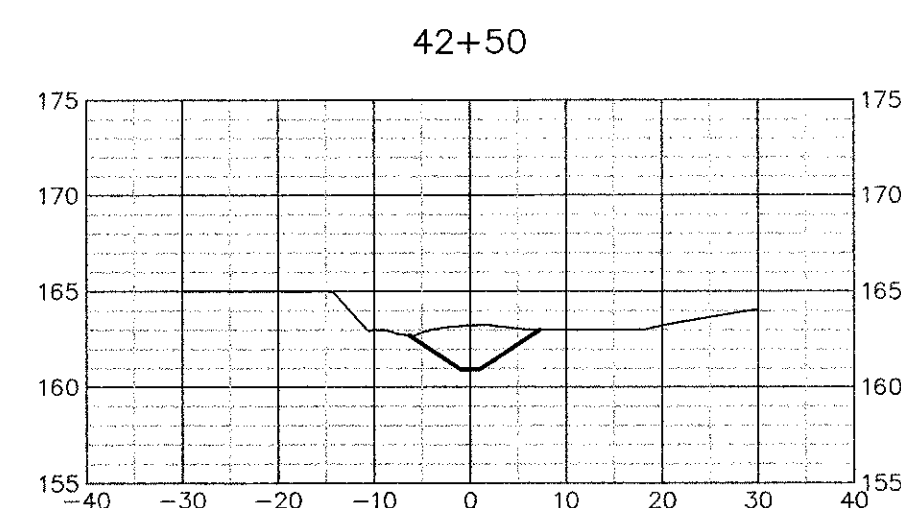
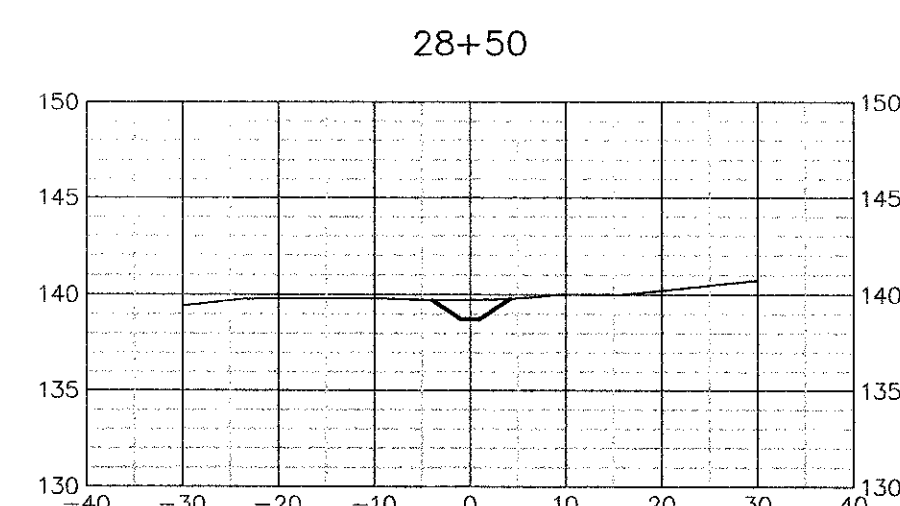
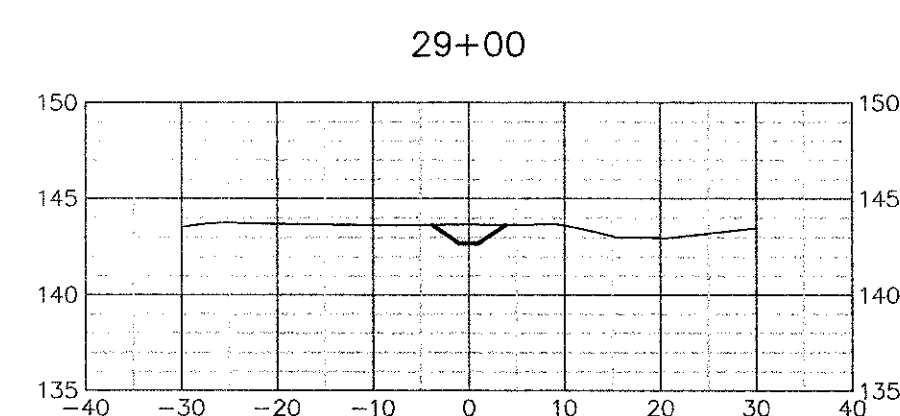
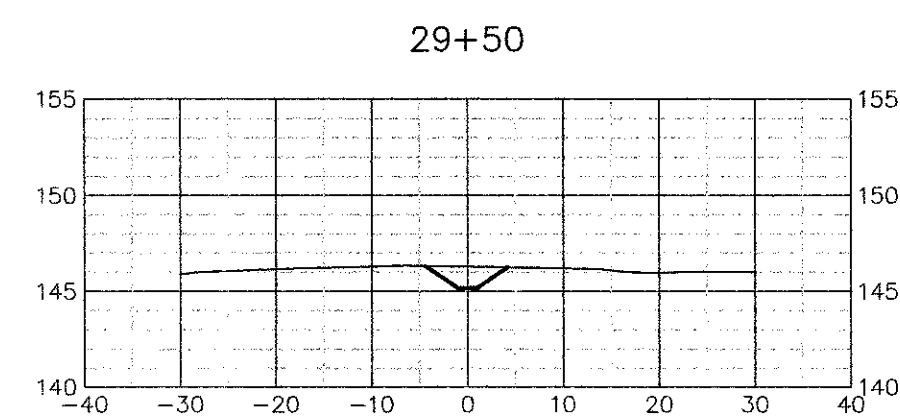
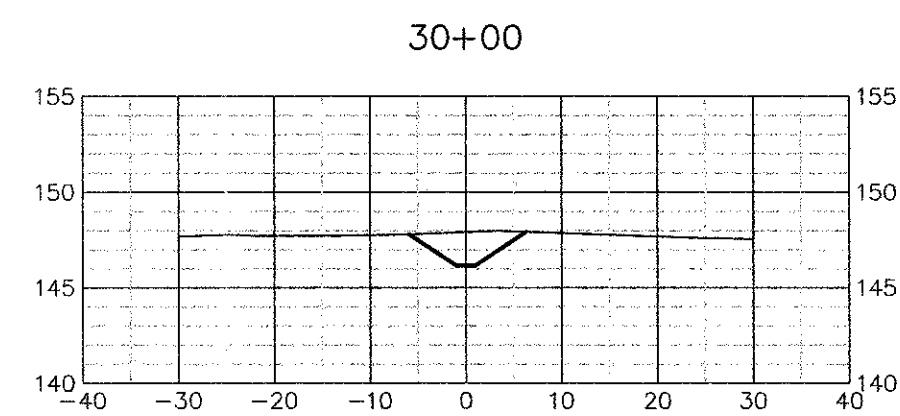
PROJECT  
**Killam Lakes Greenways  
 Maintenance and Restoration  
 Plans - Phase 1**



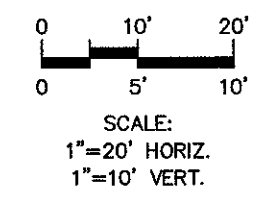
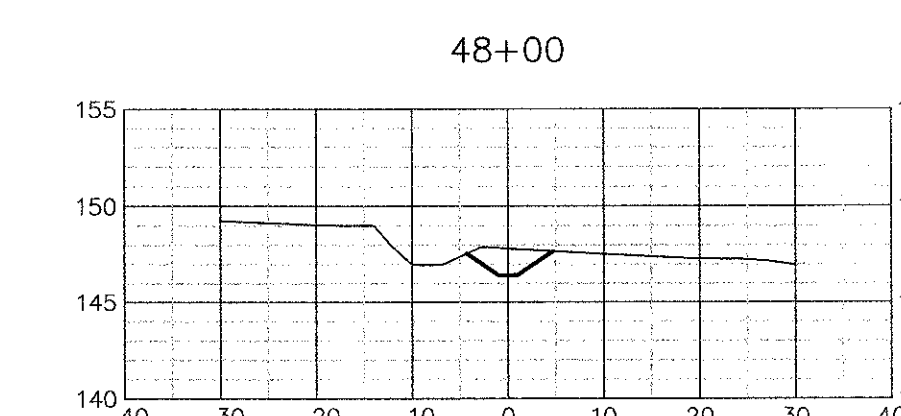
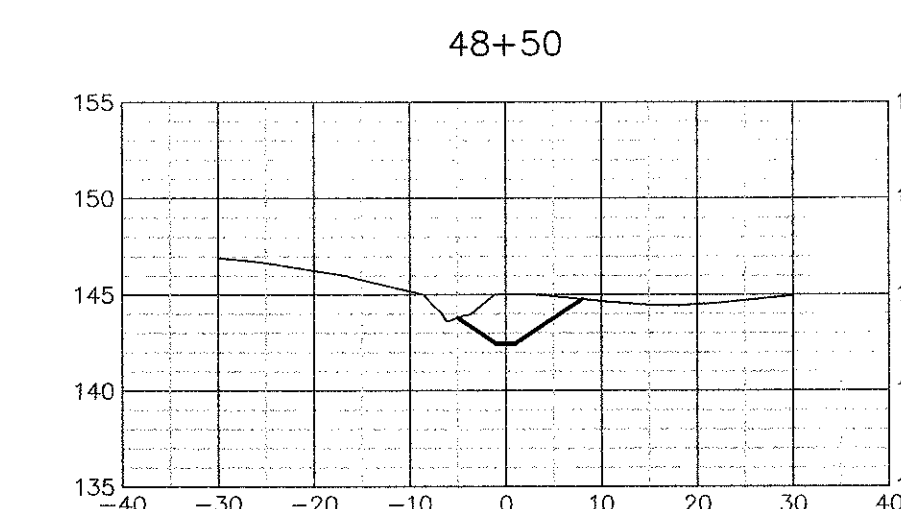
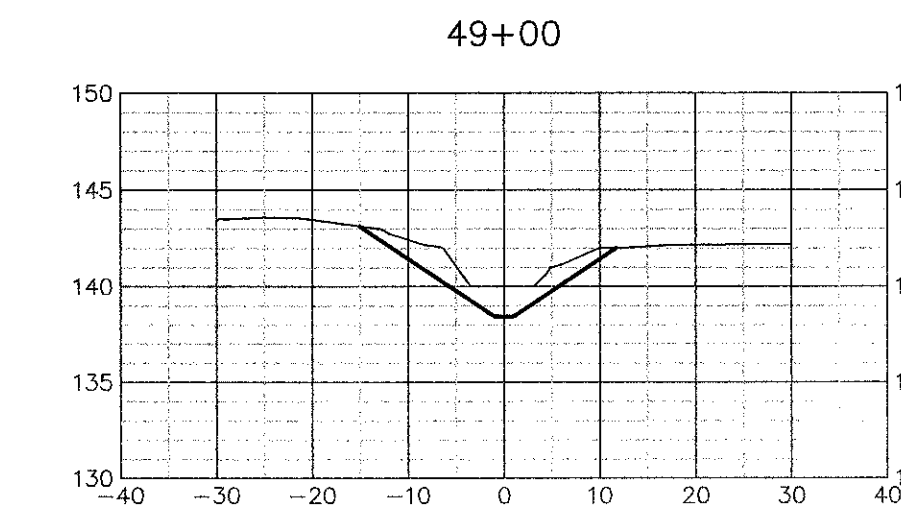
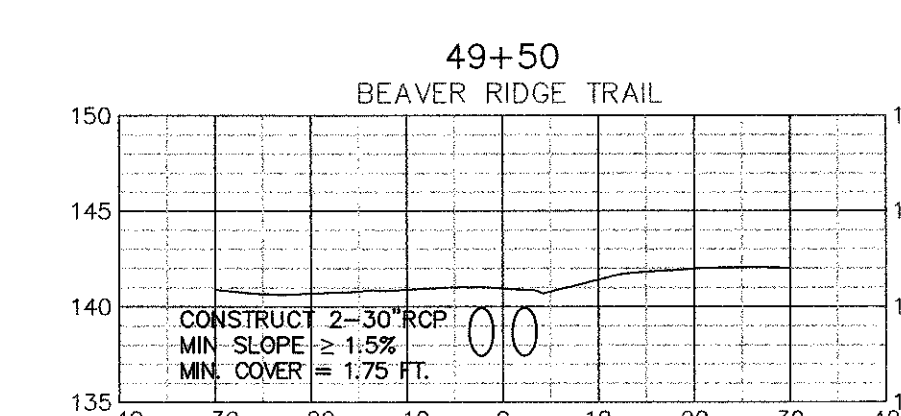
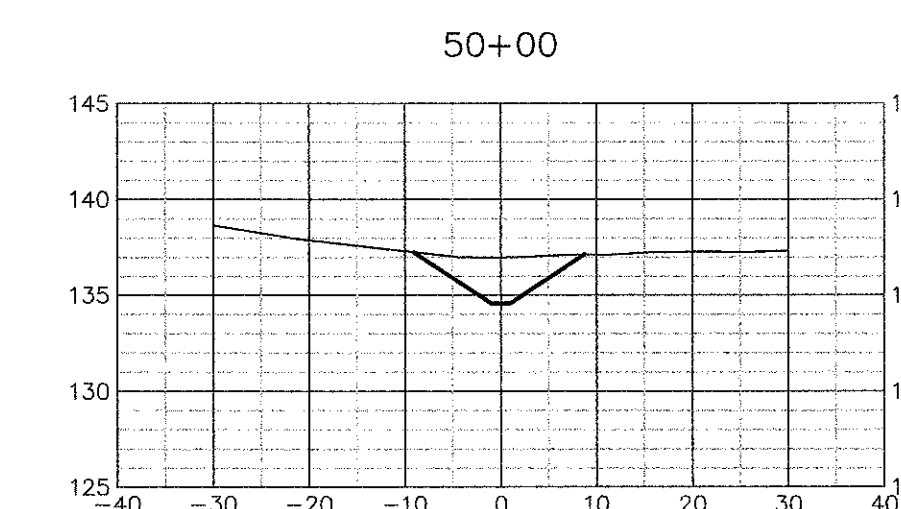
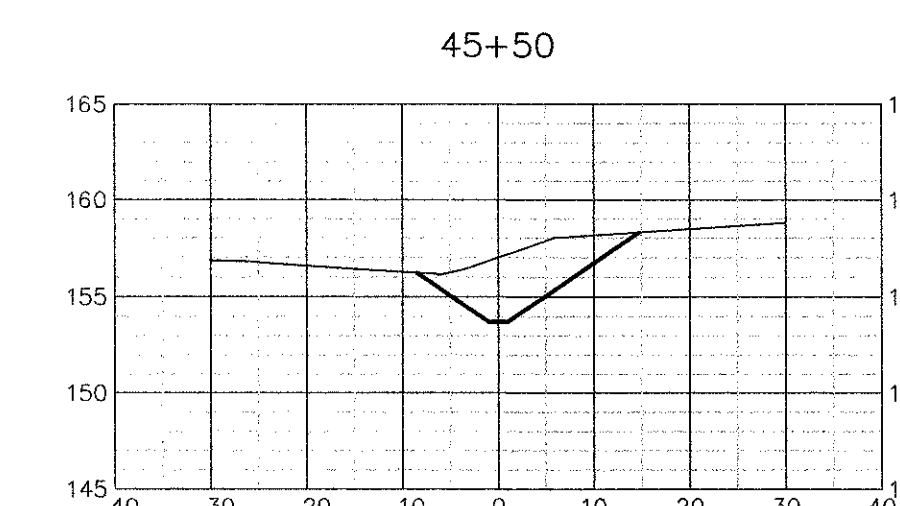
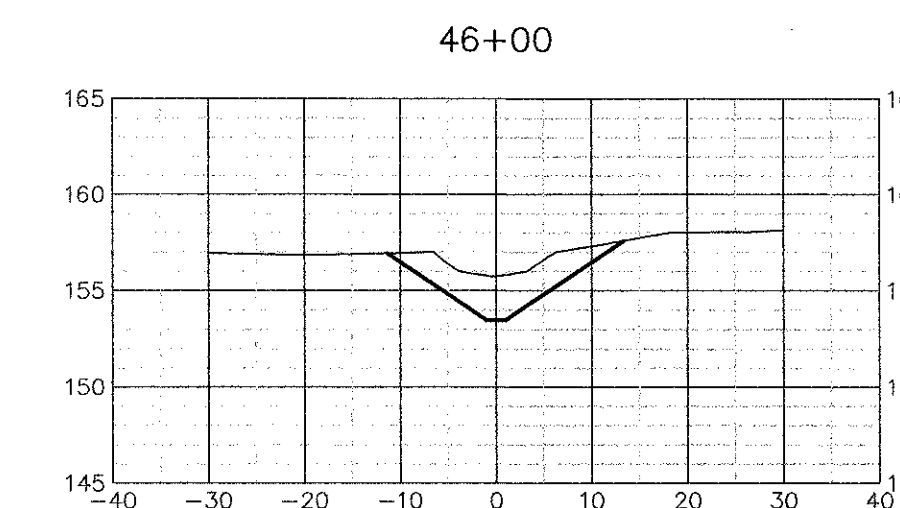
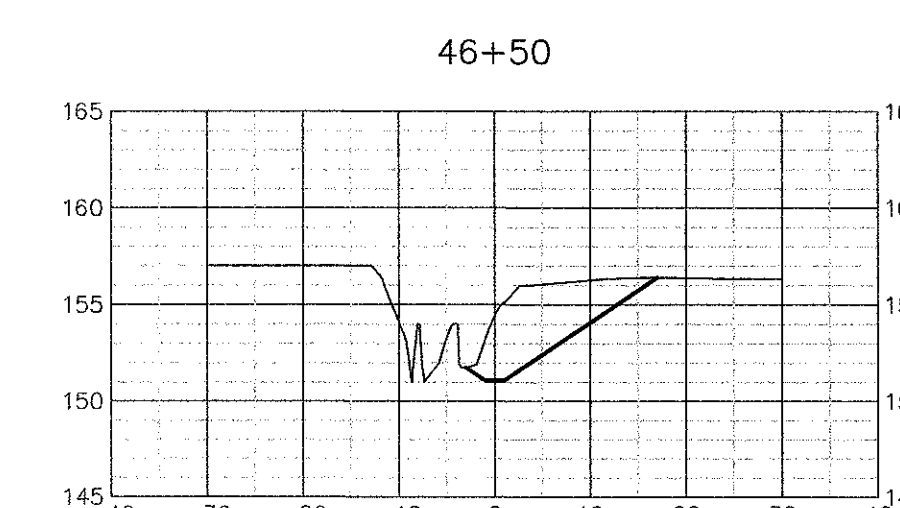
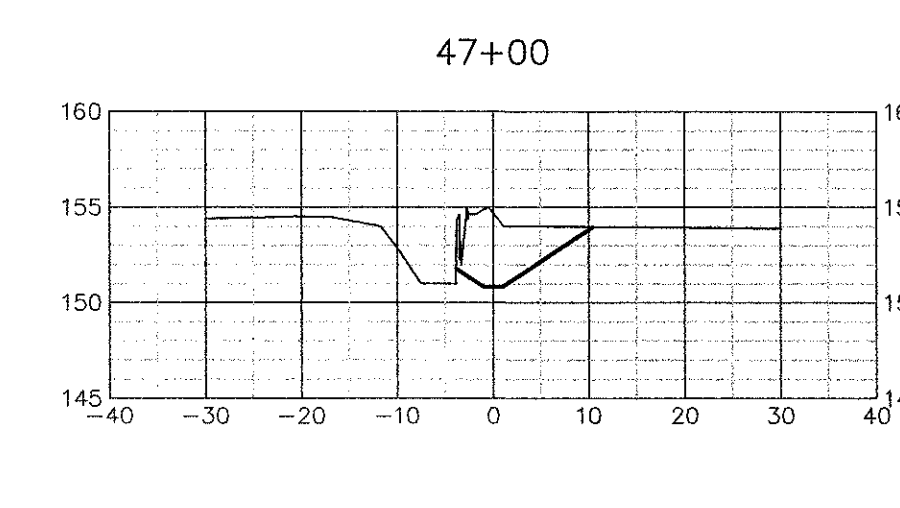
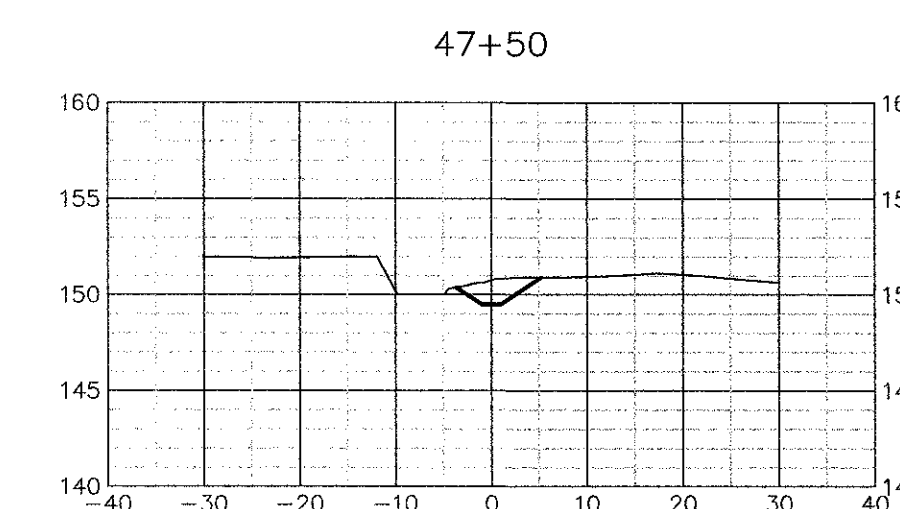
CLIENT

**ATKINS**  
 2639 N. Monroe St. Building C  
 Tallahassee, Florida 32303  
 850.575.1800  
 FBPR Certificate of Authorization No. 24

# Greenways U3-2 CROSS SECTIONS



# Greenways U3-3 CROSS SECTIONS



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JOB NO.	100014954
MR.	
DRAWN	GCB
DESIGNED	WJK
CHECKED	GC
QC	
SHEET	311

WILLIAM K. JOHNSON  
P.E. NO. 40946  
3/13/12  
NOT VALID FOR ANY OTHER PROJECTS UNLESS SPECIFIED IN THE BLOCK

ORIGINAL	MAY 2012
REVISIONS:	
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TASK  
Greenways U3-2 & U3-3  
CROSS SECTIONS

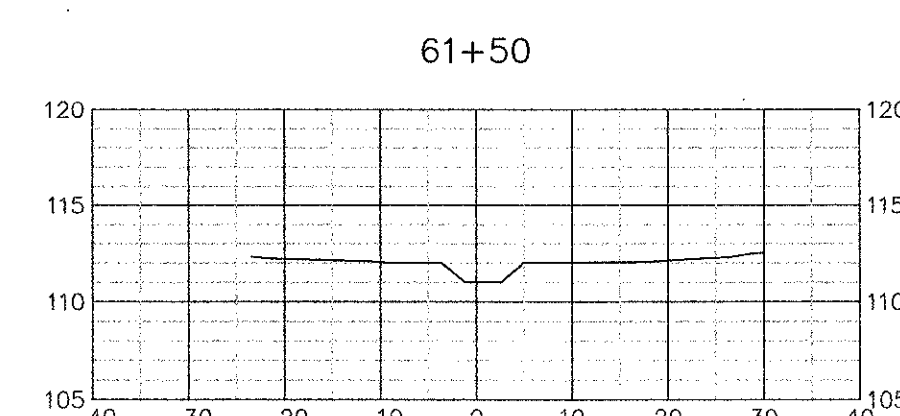
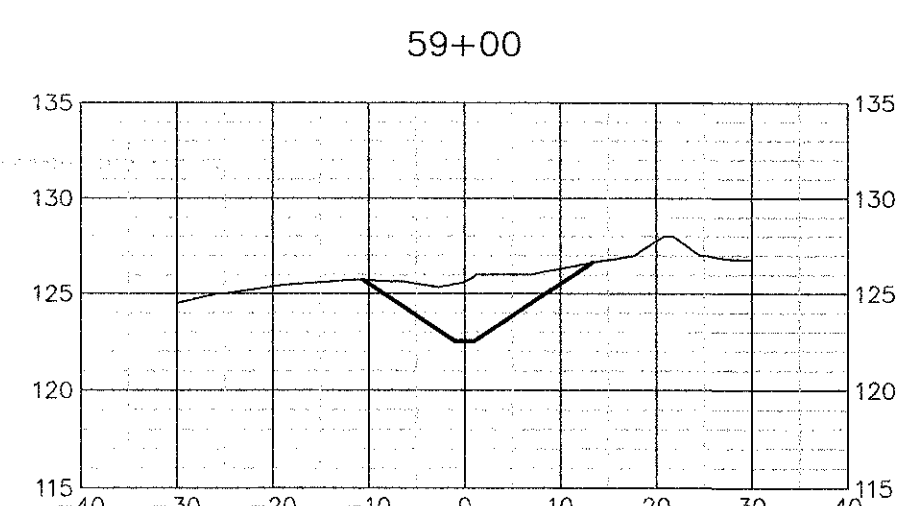
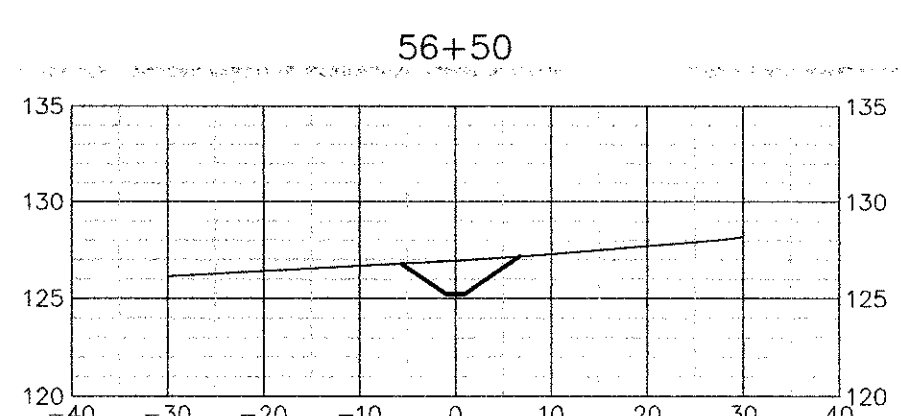
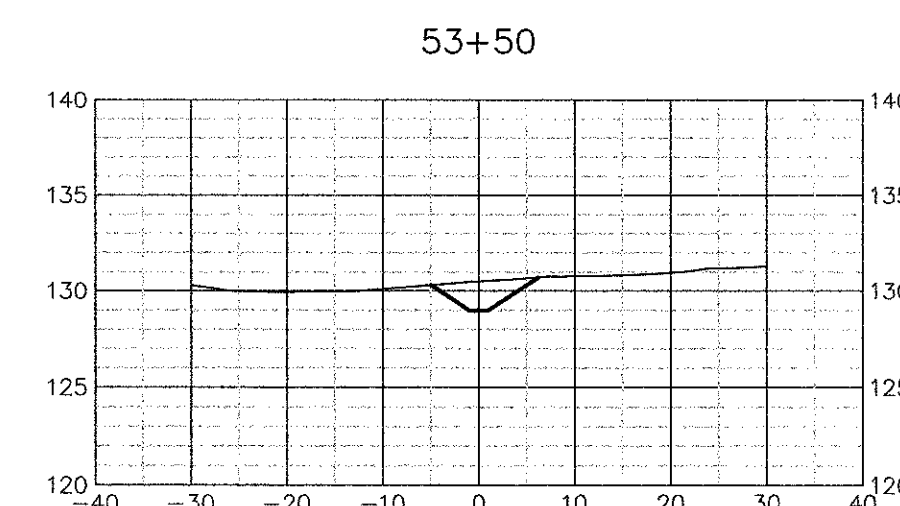
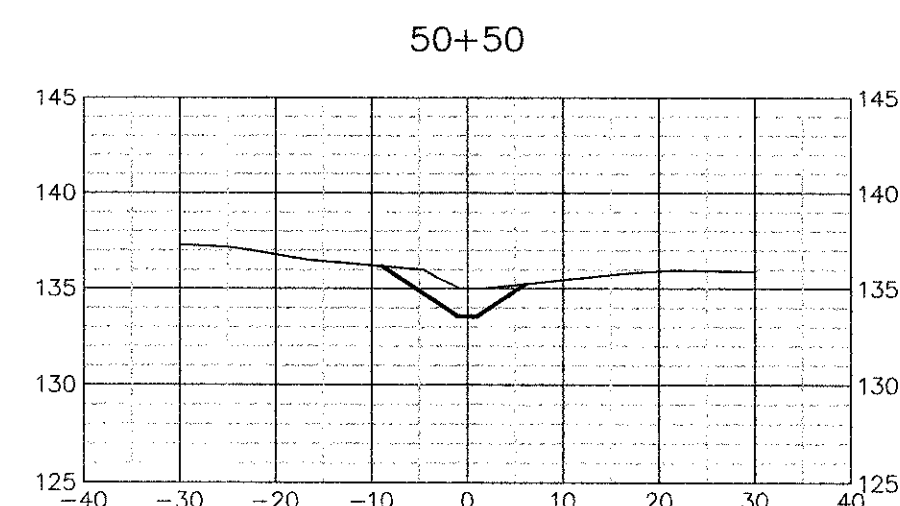
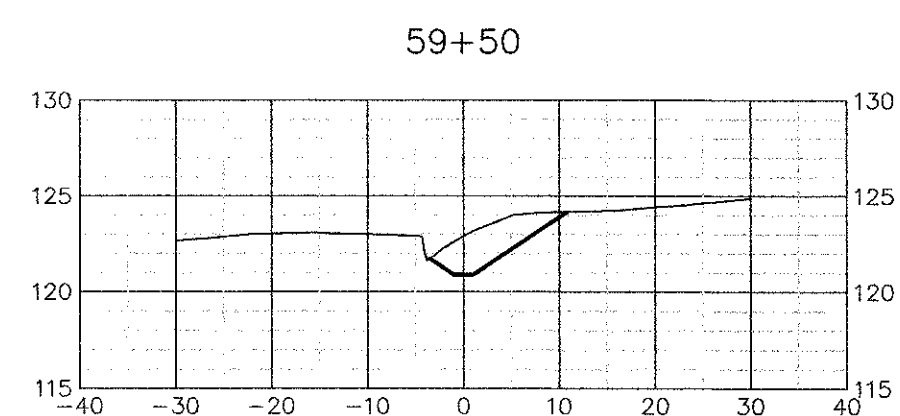
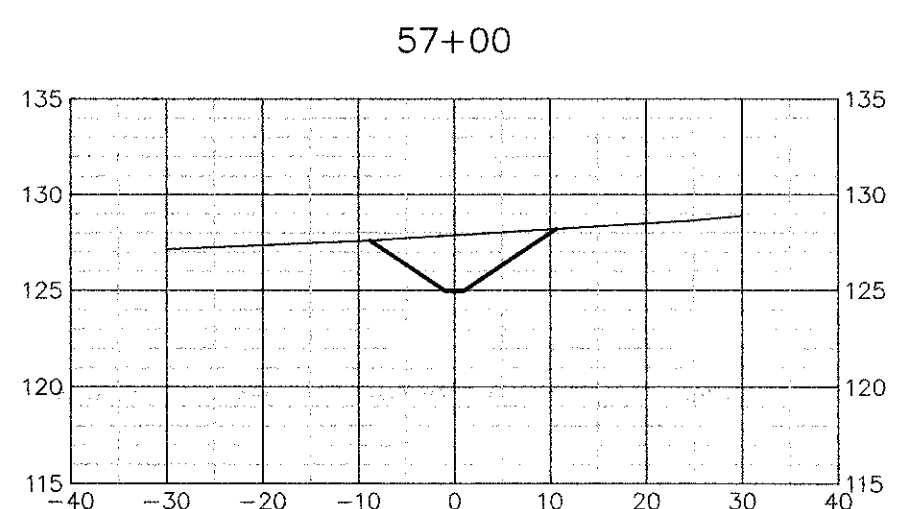
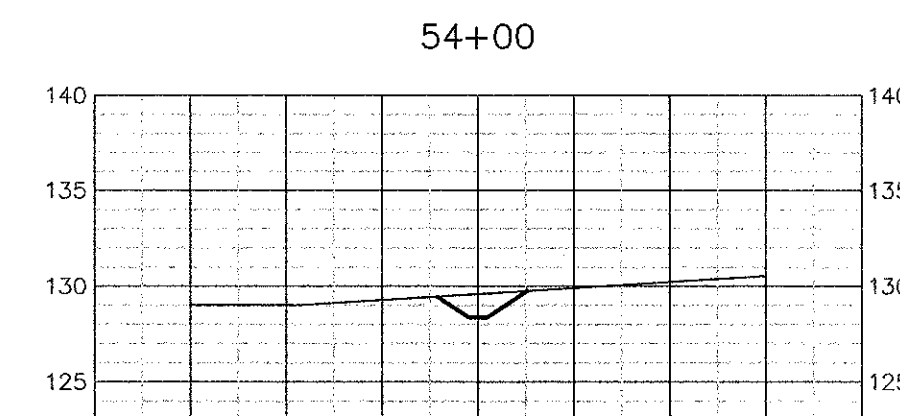
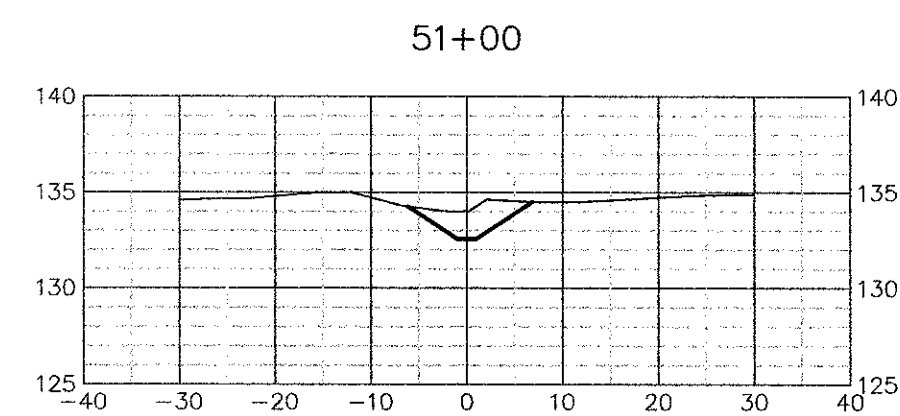
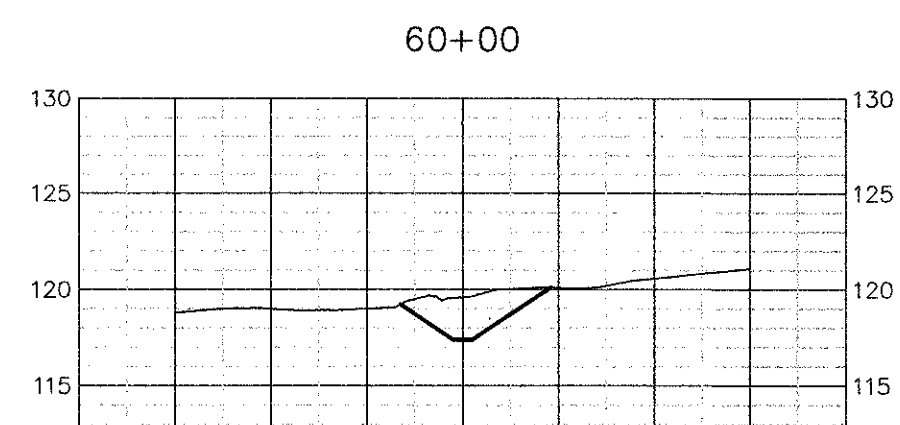
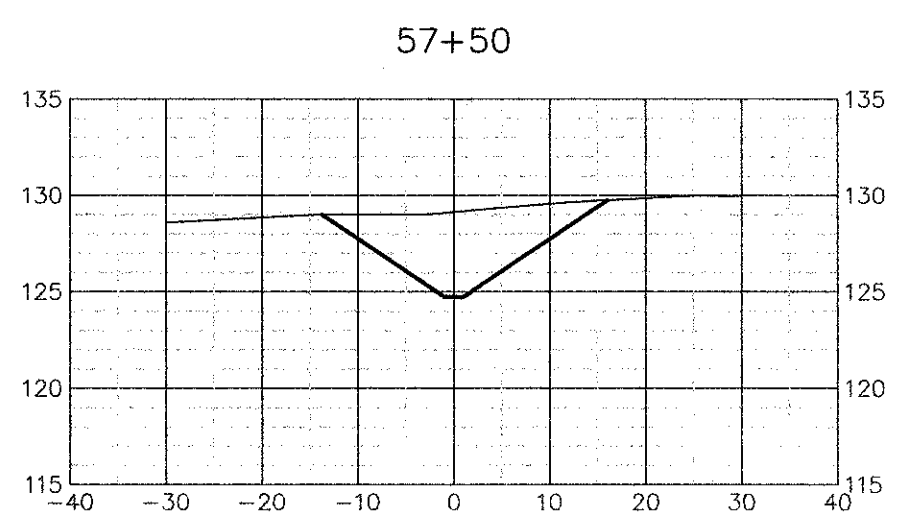
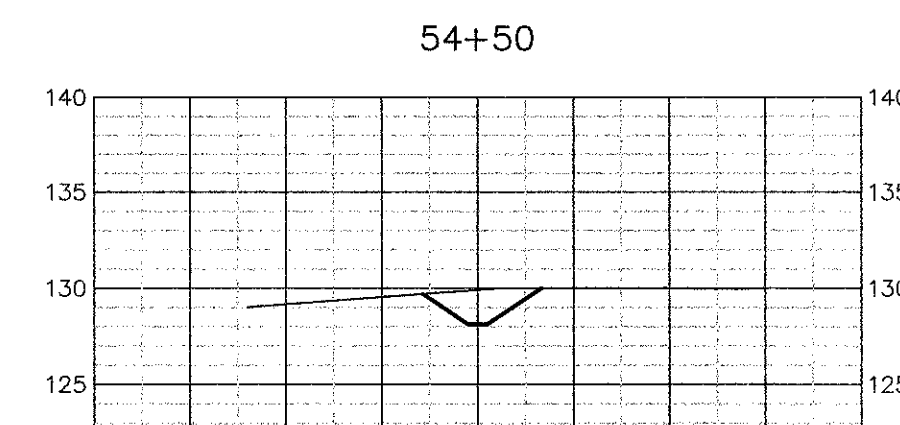
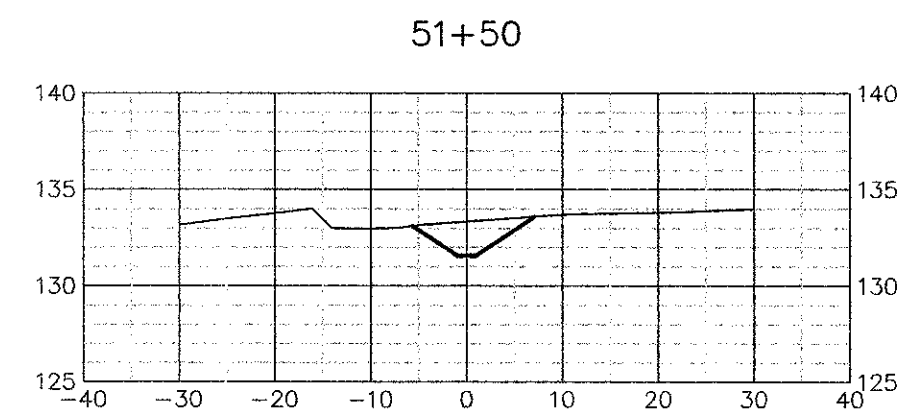
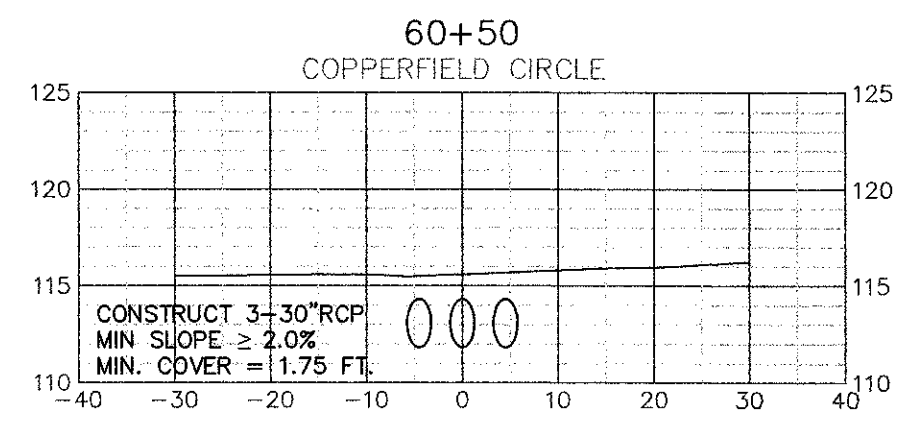
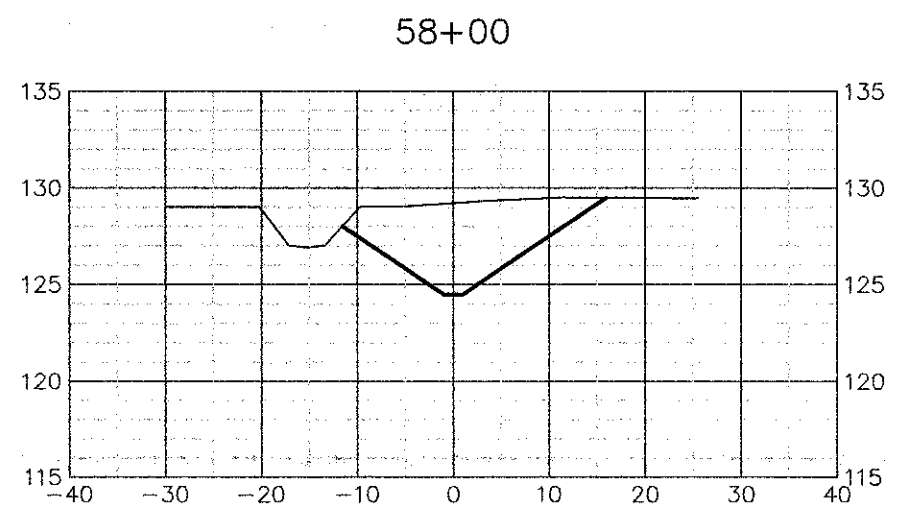
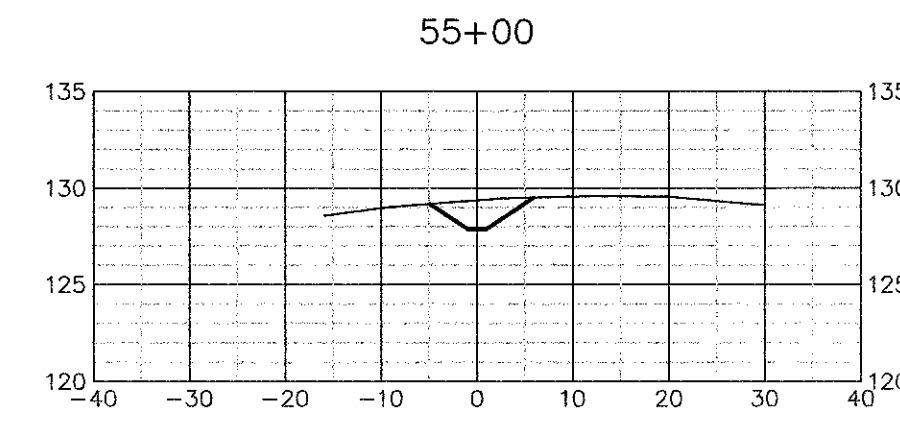
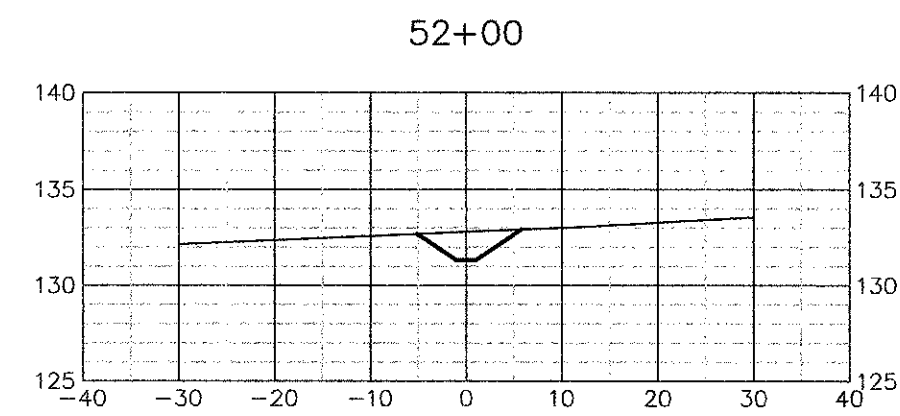
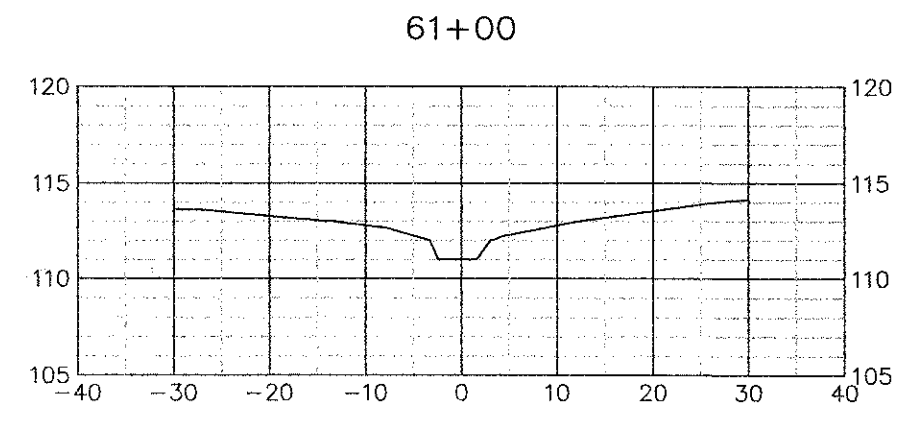
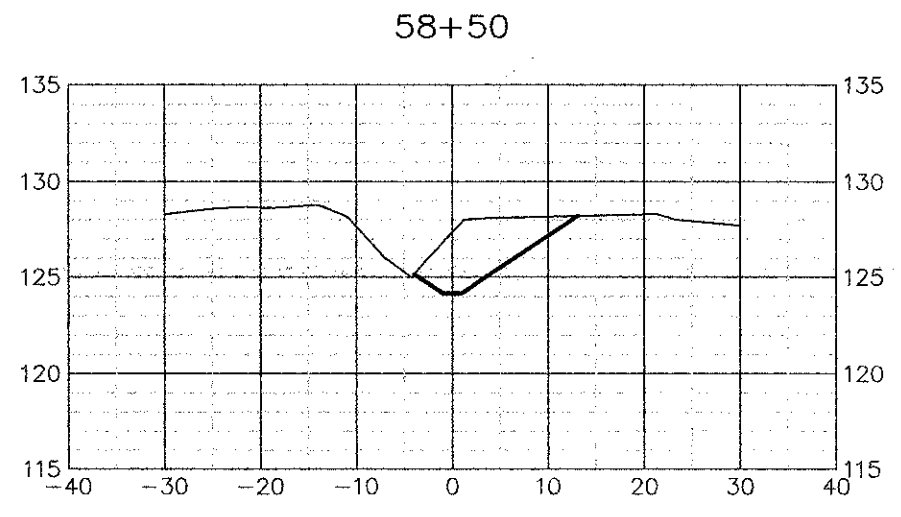
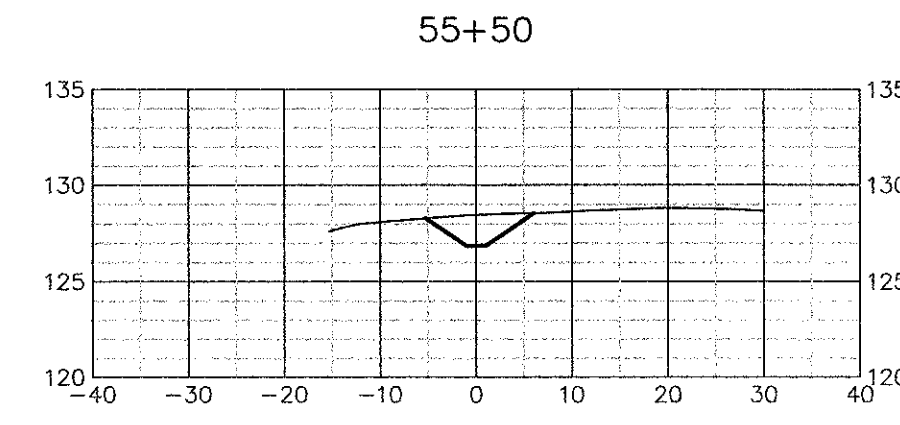
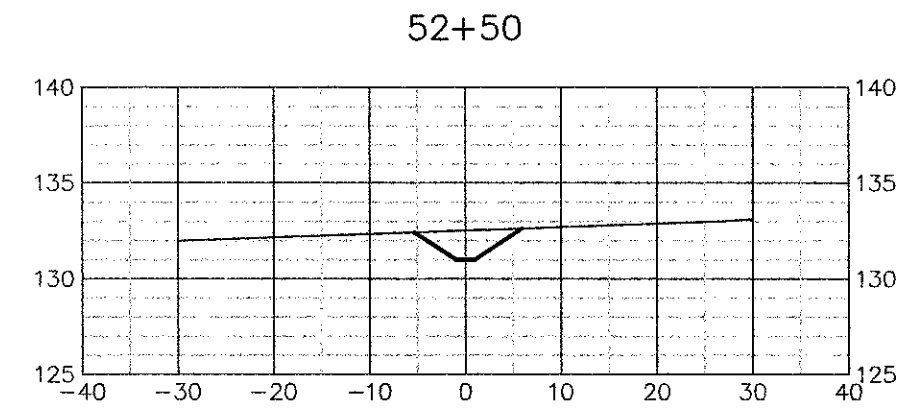
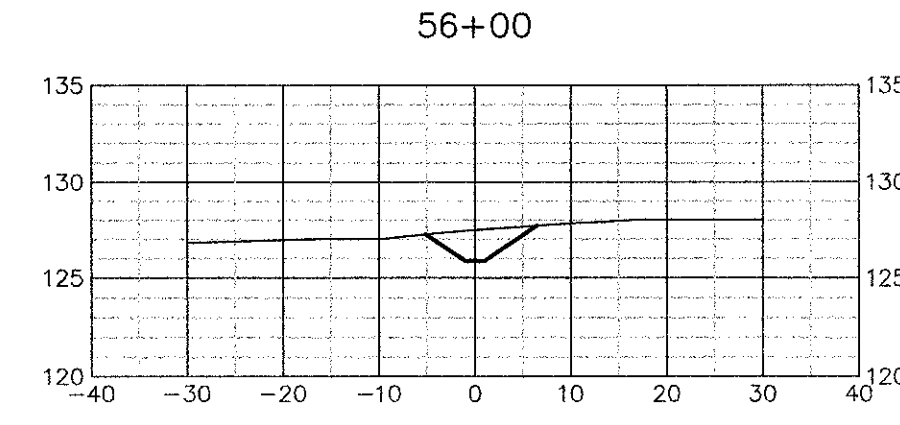
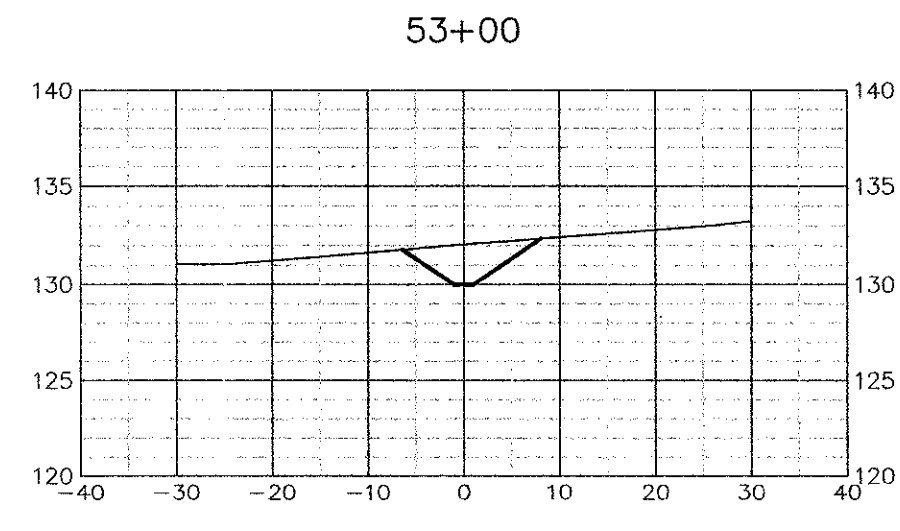
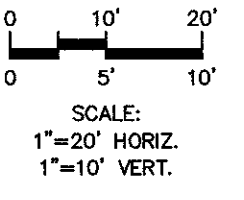
PROJECT  
Killbuck Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1



CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
Tel: 904.575.1800  
FPR Certificate of Authorization No. 24

H:\CIVIL\Killlearn-Lakes-Strmwat-Greenways\Cds-PH1\Base-Unit-3.dwg 05/08/2012 08:31:48 AM



JOB NO. 100014954  
DRAWN MR.  
DESIGNED GCB  
CHECKED WKJ  
OC

WILLIAM K. JOHNSON  
P.E. NO. 41040  
MAY 12 2012  
NOT VALID FOR CONSTRUCTION  
UNLESS SIGNED BY THE ISSUING OFFICE

ORIGINAL REVISIONS:

1	
2	
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TASK  
Greenway U3-3  
CROSS SECTIONS

PROJECT  
Killlearn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1

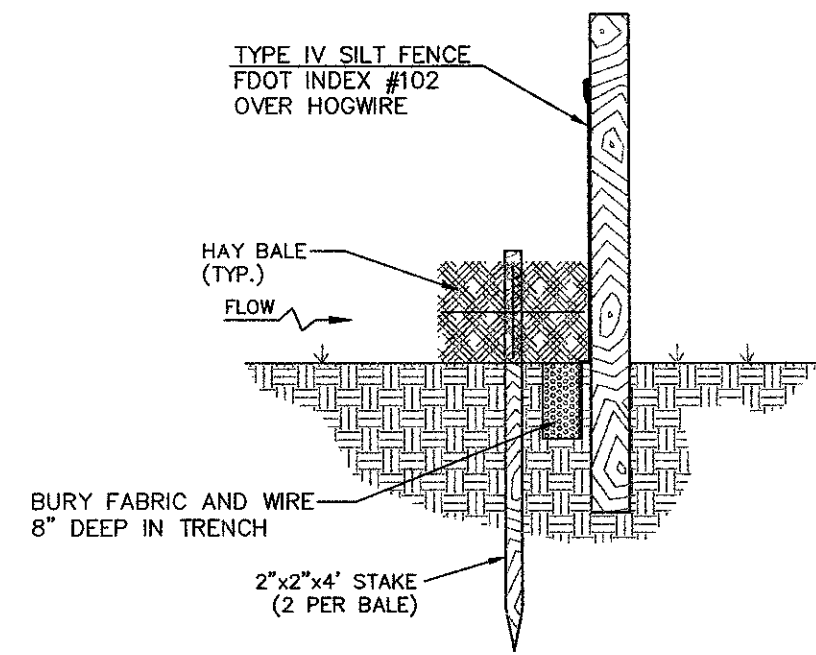


CLIENT

**ATKINS**  
2639 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24

SHEET 312





MAINTENANCE NOTES:

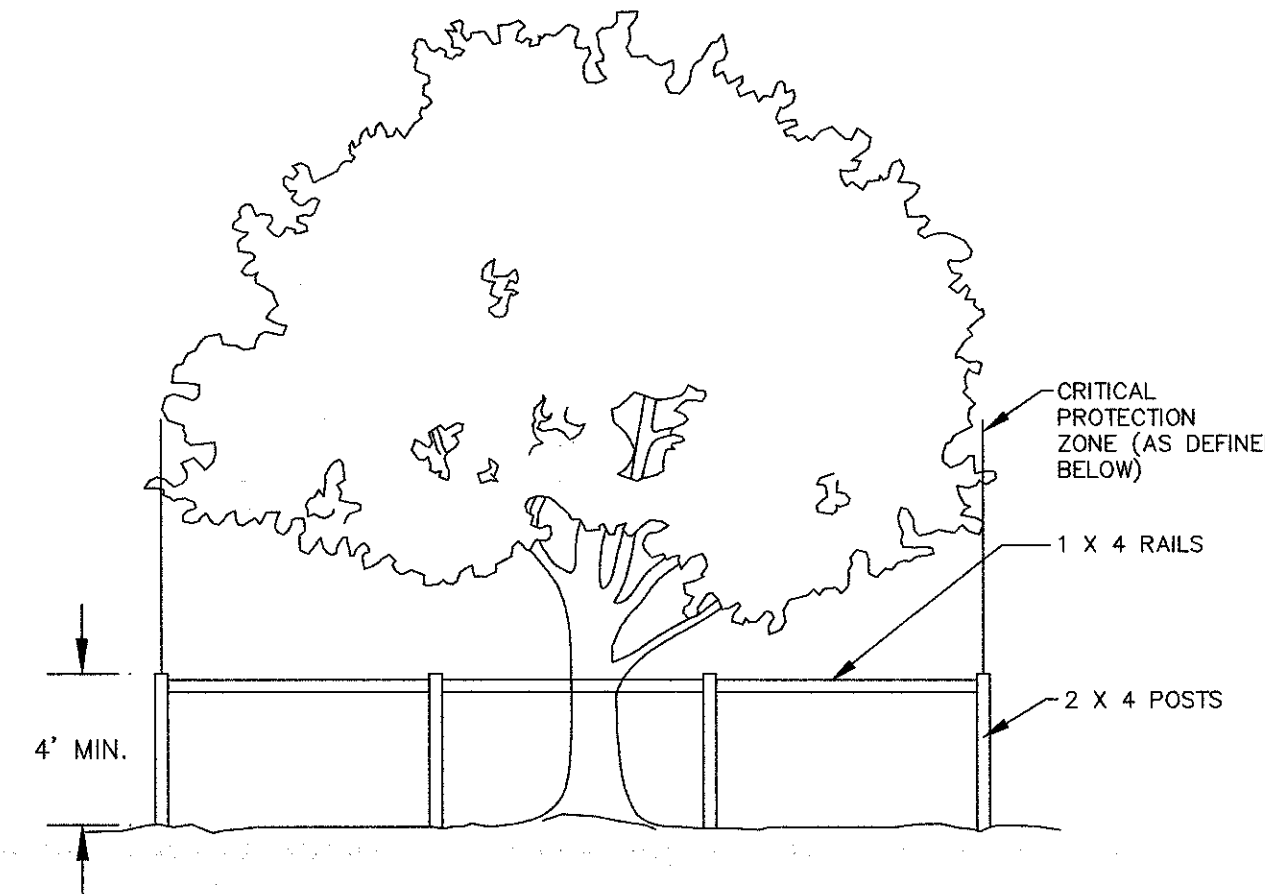
- SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEED.
- NO TRENCHING SHALL OCCUR WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED OR DESIRABLE TREE.

1 STAKED TYPE IV SILT FENCE WITH HAY BALES  
400 NTS

SHEET FLOW APPLICATION: SILT FENCE

GENERAL NOTES

- THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED AS DESCRIBED IN ITEM NO. 8 BELOW.
- POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES. WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET.
- A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. TRENCHING SHALL NOT BE ALLOWED WITHIN THE CPZ OF TREES TO REMAIN.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ITEM NO. 6 APPLYING.
- WHEN ATTACHING TWO SILT FENCES TOGETHER, PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS AT LEAST 180 DEGREES ON A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FILTER FABRIC. DRIVE BOTH POSTS INTO THE GROUND AND BURY THE FLAP.
- THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
- WHEN USED TO CONTROL SEDIMENTS FROM A STEEP SLOPE, SILT FENCES SHOULD BE PLACED AWAY FROM THE TOE OF THE SLOPE FOR INCREASED HOLDING CAPACITY.
- SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

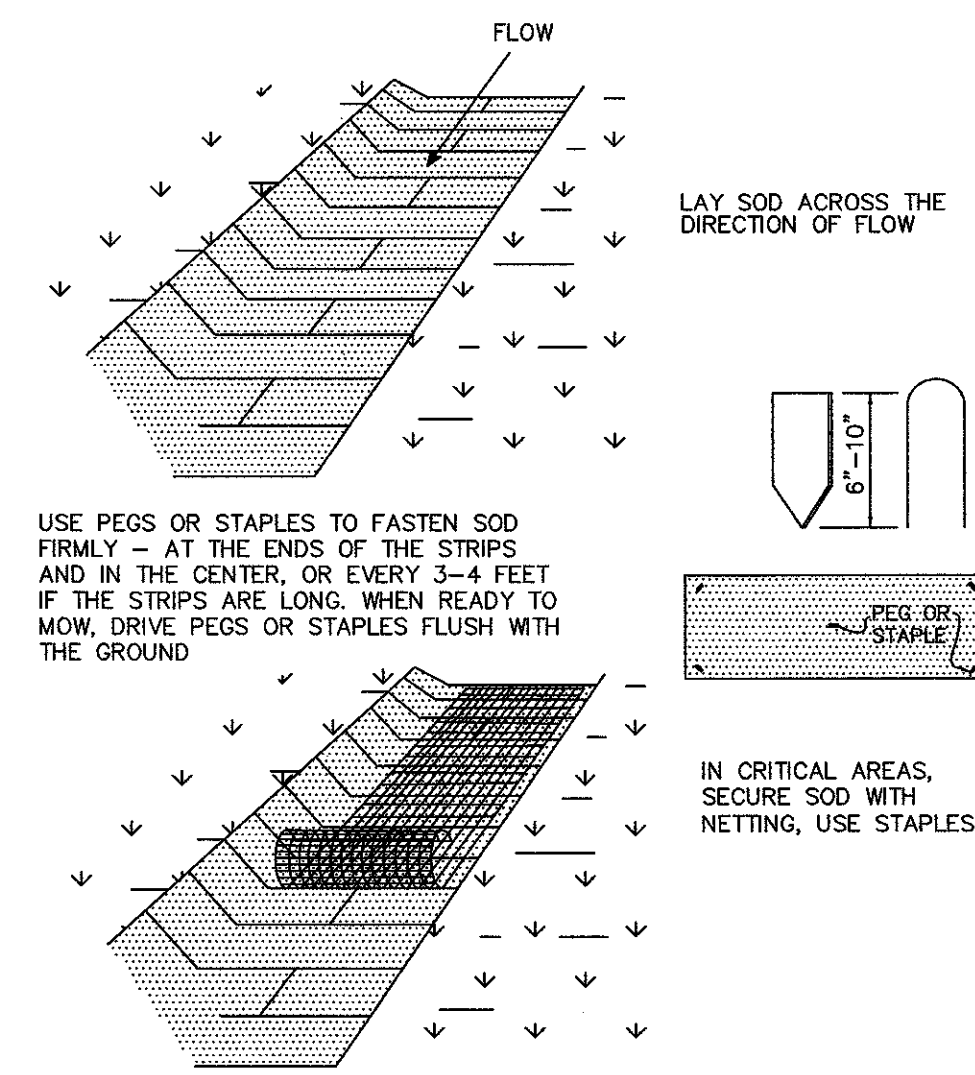


NOTES:

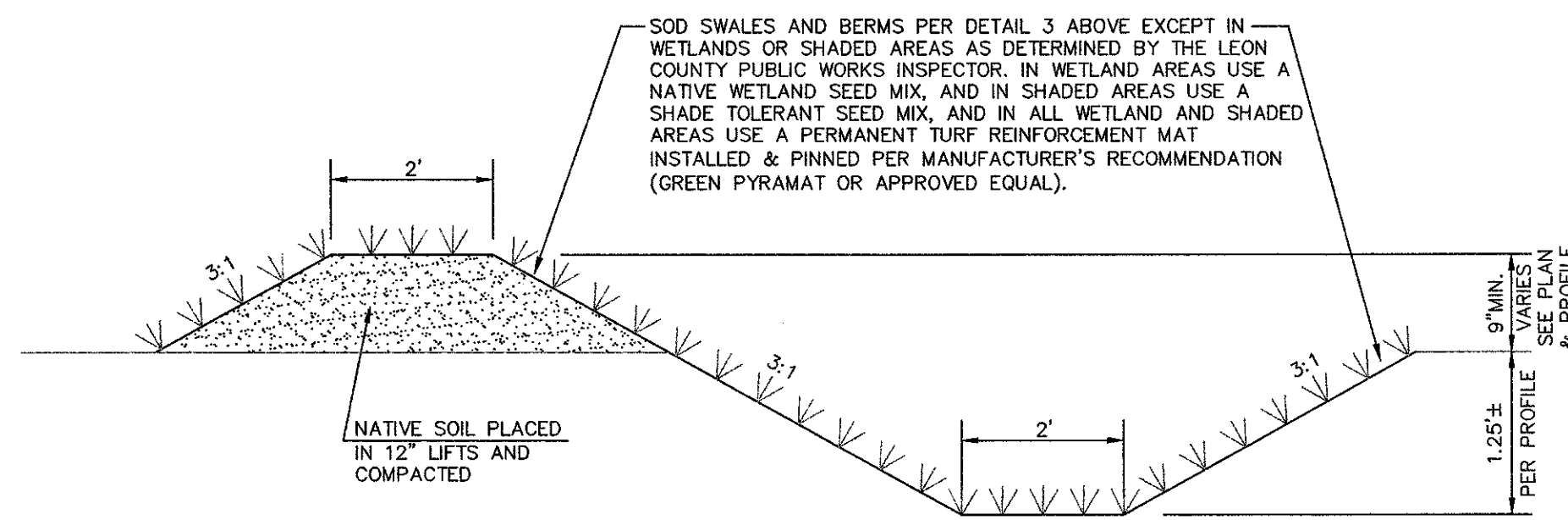
THE TREE PROTECTION BARRICADE IS TO PREVENT DISTURBANCE OF THE CRITICAL PROTECTION ZONE (CPZ). THE C.P.Z. IS THAT AREA SURROUNDING A TREE WITH A CIRCLE DESCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER AT BREAST HEIGHT. ANY ACTIVITY THAT ENCROACHES WITHIN THE C.P.Z. OF ANY TREE WILL REQUIRE DEBITS OR AN ARBORICULTURAL MITIGATION PLAN.

THE AREA WITHIN BARRICADE IS NOT TO BE USED FOR STORAGE OF MATERIAL OR EQUIPMENT.

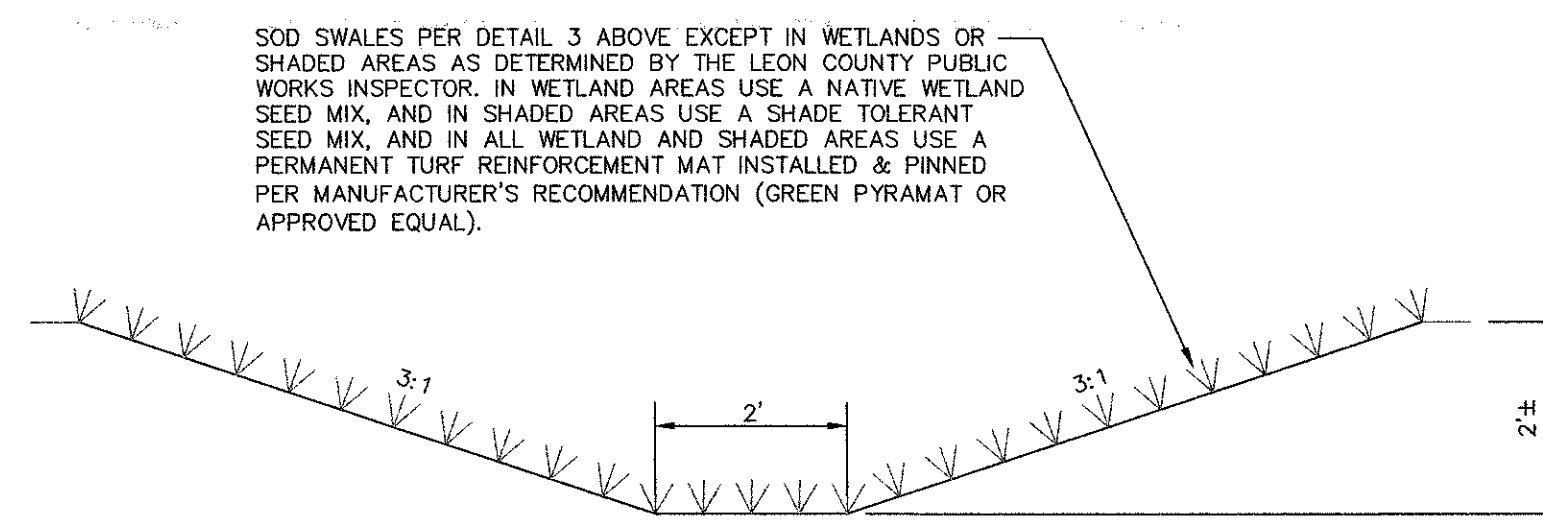
2 TREE PROTECTION BARRICADE  
400 NTS



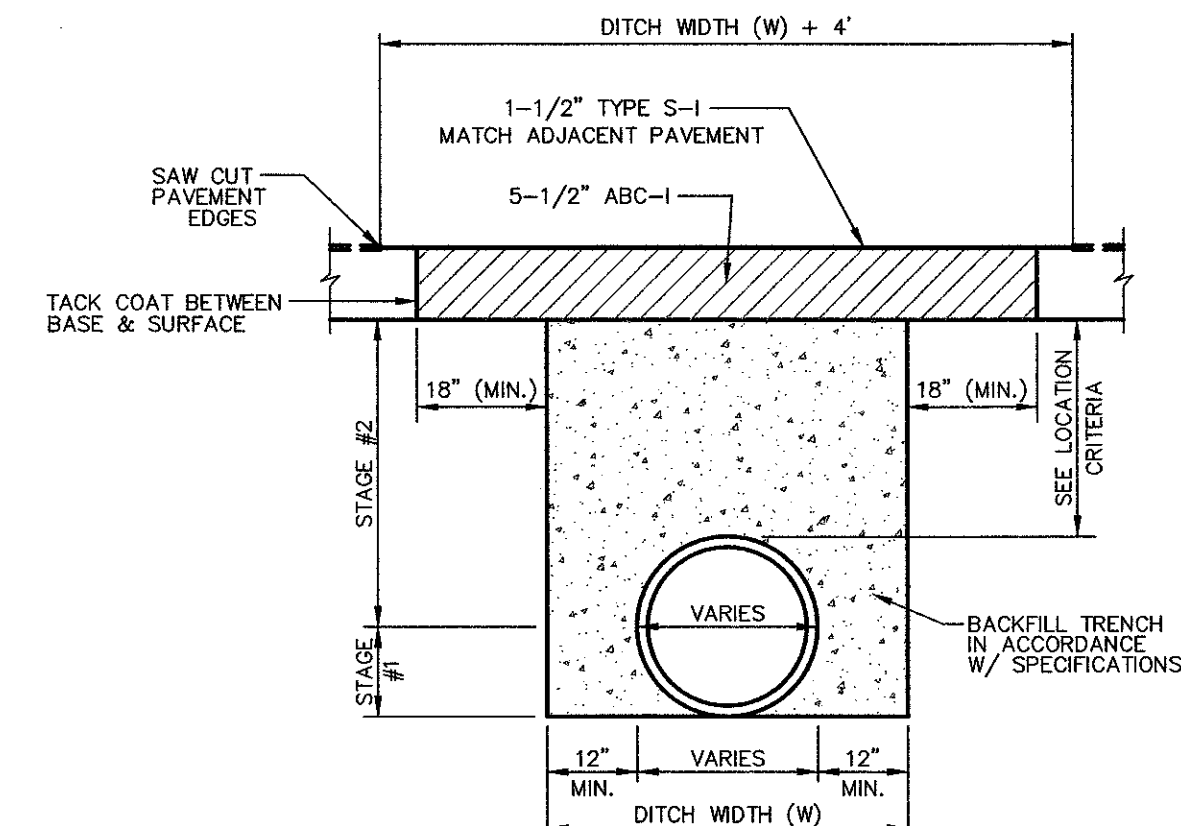
3 SODDING DETAILS FOR SWALES  
400 NTS



4 CONTAINMENT BERM / SWALE  
400 NTS



5 SODDED SWALE  
400 NTS



DENSITY PROCEDURES:

THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6\"/>

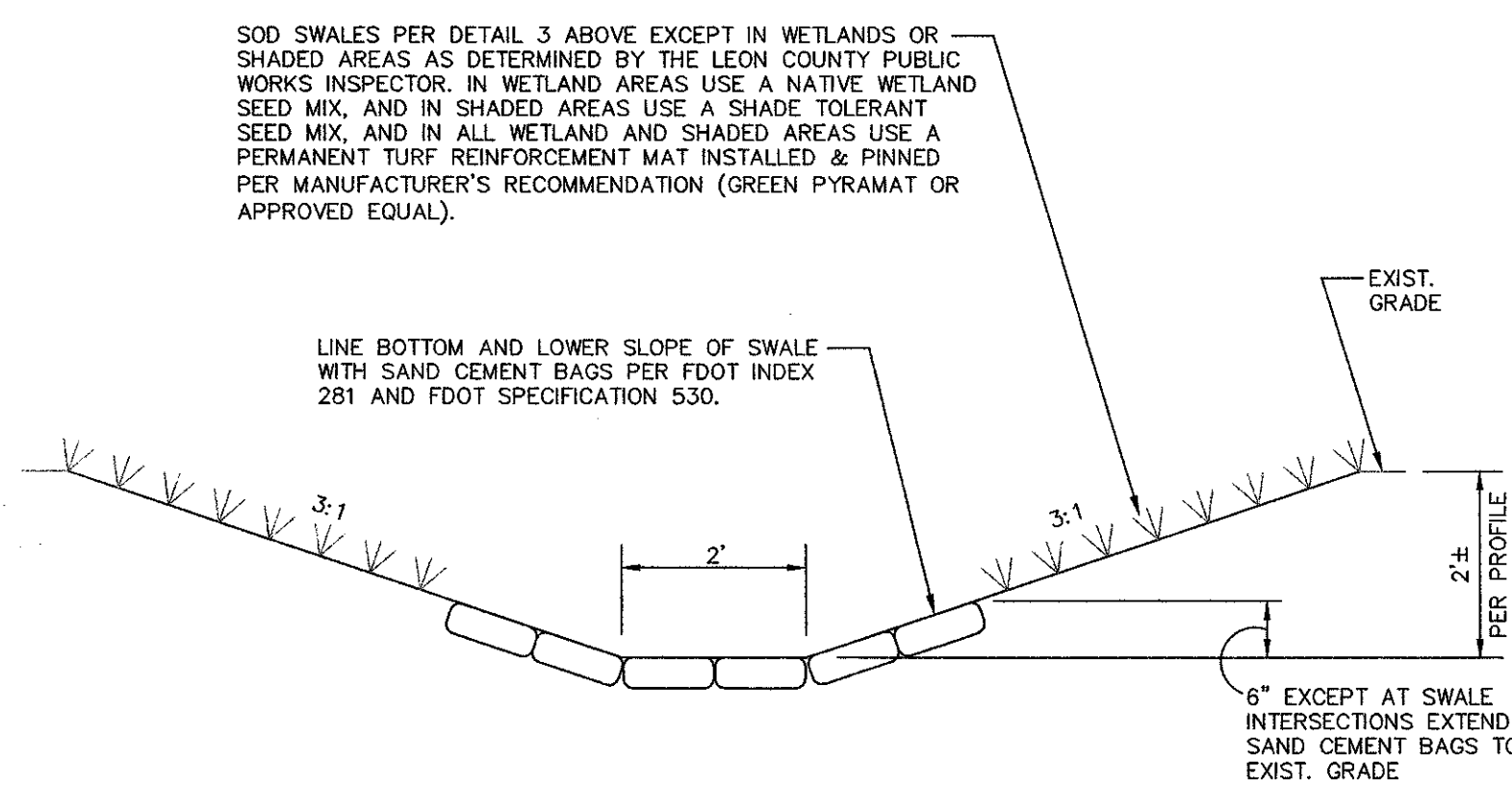
STAGE #1

THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPERS SUITABLE FOR THIS PURPOSE. THIS COMPACTATION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

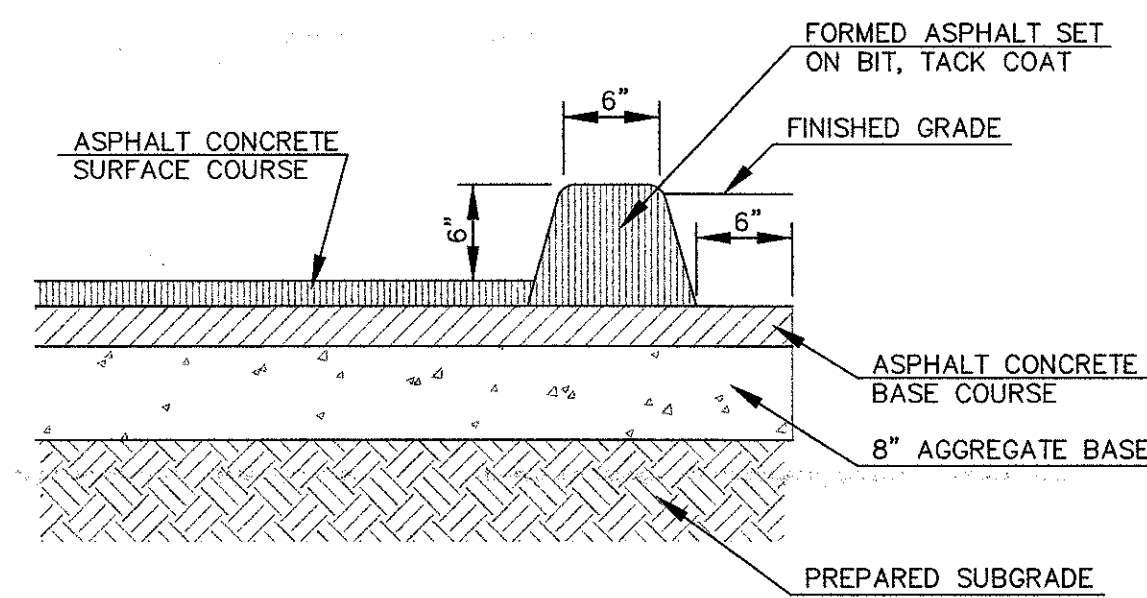
STAGE #2

THE CONTRACTOR SHALL OBTAIN A WELL-COMPACTED BED AND FILL ALONG THE SIDES OF THE PIPE AND TO A POINT INDICATING THE TOP OF SUB-GRADE MATERIAL.

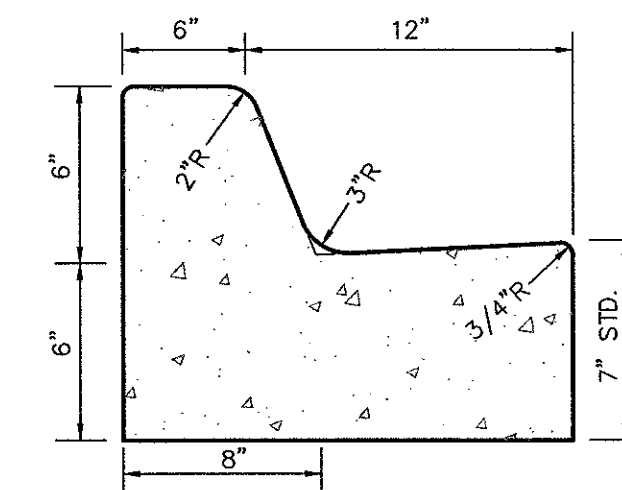
6 PAVEMENT REPLACEMENT FOR PIPE INSTALLATION & PIPE REMOVAL  
400 NTS



7 SAND CEMENT DITCH PAVING  
400 NTS



8 ASPHALT CURB  
400 NTS



9 CONC. CURB  
400 NTS

H:\CIVIL\Killam-Lakes-Strmway-Greenways\Cds-P1\Details.dwg 07/12/2012 10:59:12 AM

JOB NO. 100014954  
DRAWN MR  
DESIGNED GCB  
CHECKED WKJ  
QC  
SHEET 400

WILLIAM K. JOHNSON  
P.E. NO. 40360  
JULY 2012  
ORIGINAL  
REVISIONS:  
1  
2  
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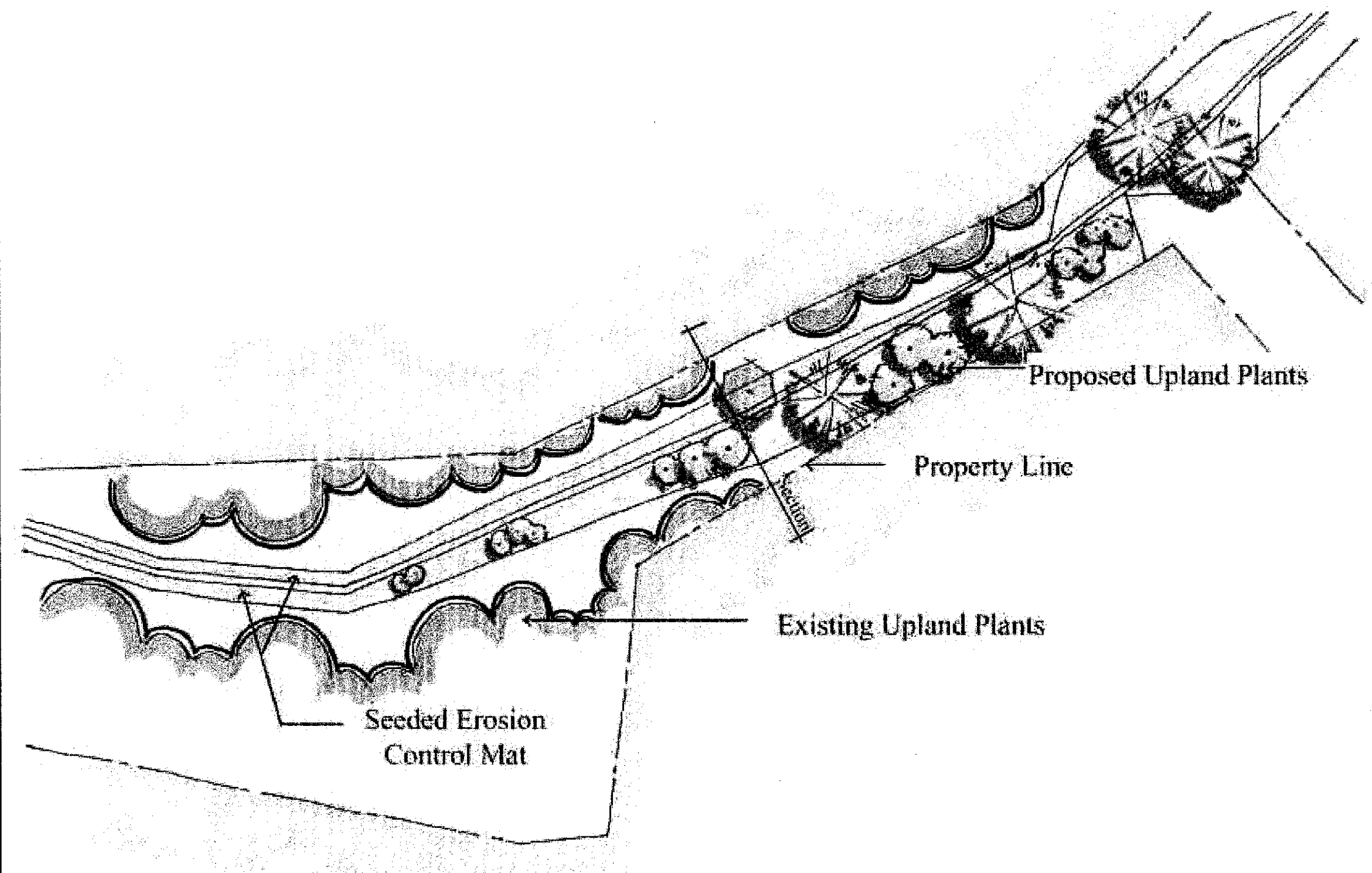
TASK  
CONSTRUCTION DETAILS

PROJECT  
Killam Lakes Greenways Maintenance and Restoration Plans - Phase 1



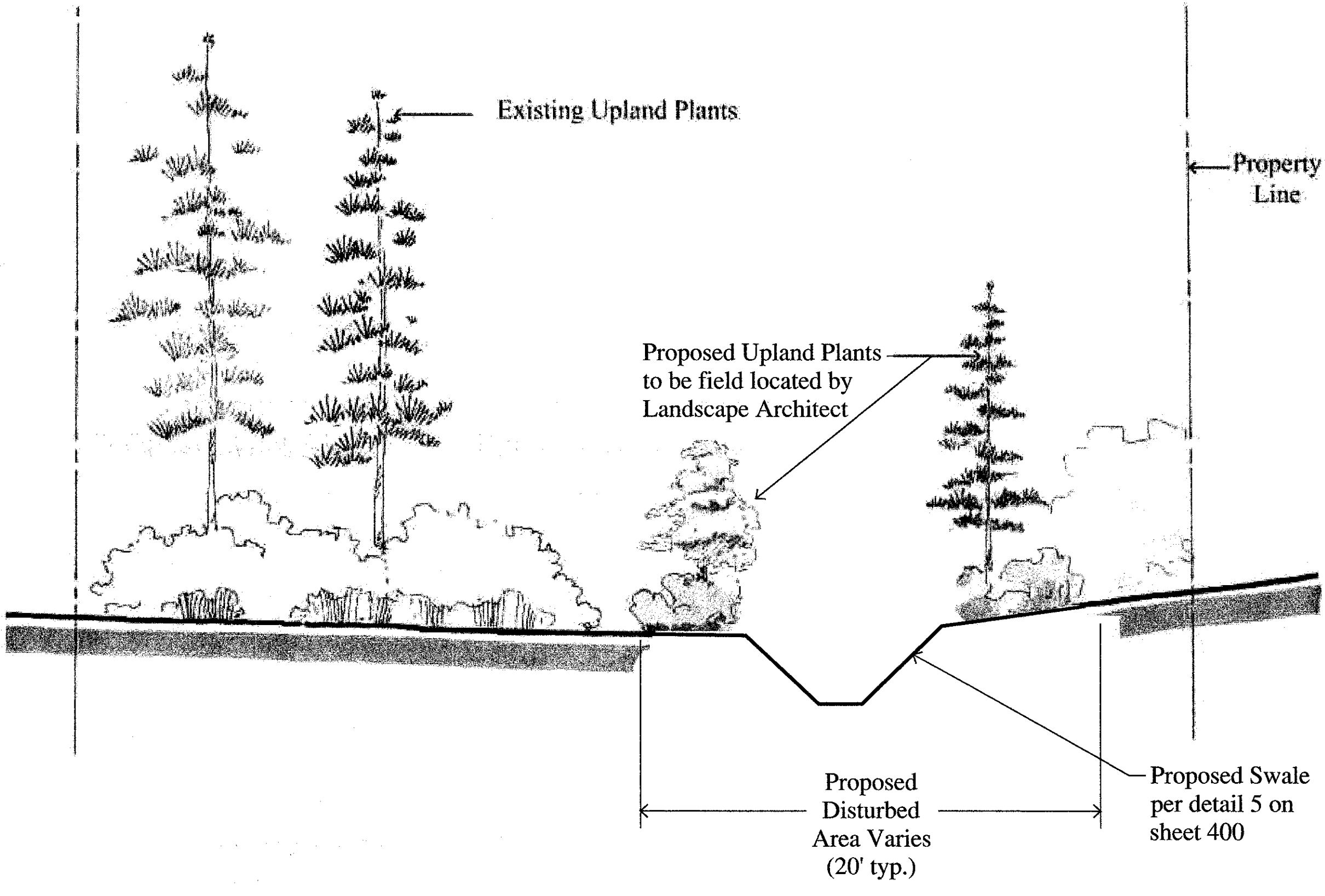
CLIENT

ATKINS  
2699 N. Monroe St. Building C  
Tallahassee, Florida 32303  
850.575.1800  
FBPR Certificate of Authorization No. 24



TYPICAL UPLAND PLAN

N.T.S



TYPICAL UPLAND SECTION

N.T.S

UPLAND PLANT LIST		
Trees (all shall be 15 gal. or 1" cal.)		
<i>Cornus florida</i>	Flowering Dogwood	10
<i>Diospyros virginiana</i>	Persimmon	20
<i>Cercis canadensis</i>	Redbud	10
<i>Carya glabra</i>	Pignut Hickory	20
<i>Ilex opaca</i>	American Holly	10
<i>Liquidambar styraciflua</i>	Sweetgum	10
<i>Magnolia grandiflora</i>	Southern Magnolia	20
<i>Nyssa sylvatica</i>	Black Gum	20
<i>Pinus palustris</i>	Longleaf Pine	20
<i>Prunus angustifolia</i>	Chickasaw Plum	20
<i>Quercus virginiana</i>	Live Oak	20
<i>Sassafras albidum</i>	Sassafras	20

Shrubs (all shall be 1 gal.)		
<i>Callicarpa americana</i>	Beautyberry	150
<i>Erythrina herbacea</i>	Cherokee Bean	125
<i>Hamelis virginiana</i>	Witch-hazel	50
<i>Ilex glabra</i>	Inkberry	160
<i>Ilex vomitoria</i>	Yaupon Holly	160
<i>Vaccinium darrowii</i>	Darrow's Blueberry	100
<i>Vaccinium myrsinites</i>	Shiny Blueberry	100
<i>Viburnum dentatum</i>	Southern Arrowwood	155

Groundcover, Vines, and Ferns (all shall be 1 gal.)		
<i>Muhlenbergia capillaris</i>	Pink Muhly	800
<i>Eragrostis spectabilis</i>	Purple Lovegrass	800
<i>Gelsemium sempervirens</i>	Carolina Jasmine	100
<i>Lonicera sempervirens</i>	Coral Honeysuckle	100
<i>Yucca filamentosa</i>	Adam's Needle	200

Wildflowers (seed)		
<i>Careopsis lanceolata</i>	Lanceleaf Coreopsis	50 lbs
<i>Phlox drummondii</i>	Drummond Phlox	50 lbs

NOTE: THE LANDSCAPE SUPERVISOR FOR THIS PROJECT WILL BE:

Patricia H. Farley  
Landscape Designer, ATKINS  
2639 N. Monroe Street, Bldg. C  
Tallahassee, FL 32303  
Tel: (850) 575 1800

THE CONTRACTOR WILL FOLLOW THE ARBORICULTURAL MITIGATION PLAN DESCRIBED ON SHEET L2.0 FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, AND ALL POTENTIALLY IMPACTED TREES.

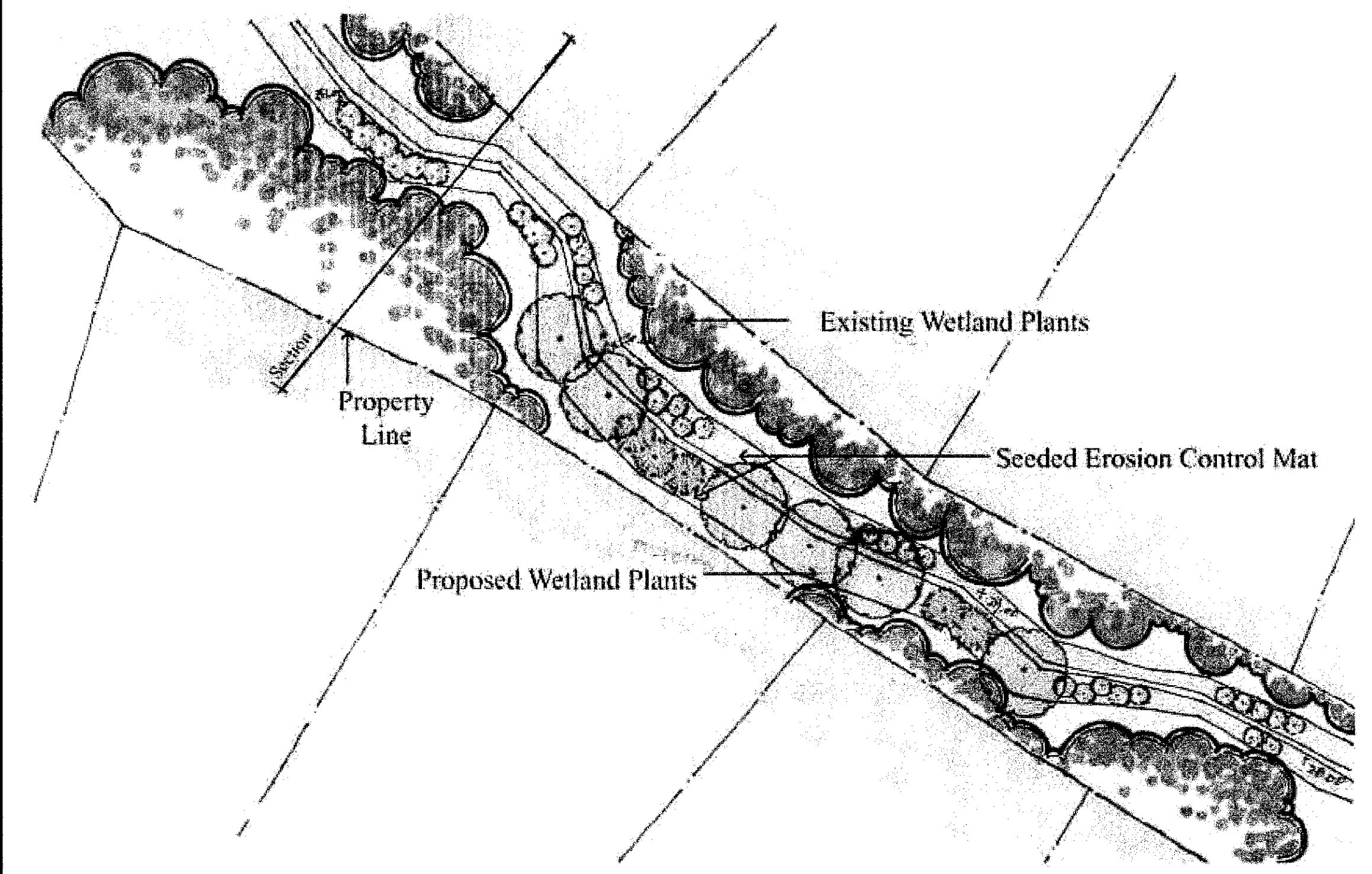
THE TREE QUANTITIES SHOWN HERE ON THE UPLAND AND WETLAND PLANT LIST ARE APPROXIMATE. PRIMARILY TO BE USED TO PROVIDE THE CONTRACTOR AN APPROXIMATE NUMBER OF PLANTS THAT ARE EXPECTED TO BE USED TO ESTABLISH UNIT PRICING DURING BIDDING, BUT THE ACTUAL AMOUNT TO BE PLANTED WILL BE DETERMINED BY THE LANDSCAPE ARCHITECT IN THE FIELD BASED ON FIELD CONDITIONS.

WETLAND PLANT LIST		
Trees (all shall be 15 gal. or 1" cal.)		
<i>Acer saccharum</i>	Florida Maple	15
<i>Cornus foemina</i>	Stiff Cornel Dogwood	10
<i>Gordonia lasianthus</i>	Loblolly Bay	10
<i>Halesia diptera</i>	Silverbell	12
<i>Ilex cassine</i>	Dahoon Holly	6
<i>Liquidambar styraciflua</i>	Sweetgum	10
<i>Magnolia virginiana</i>	Sweet-bay	15
<i>Nyssa biflora</i>	Swamp Tupelo	12
<i>Betula nigra</i>	River birch	10

Shrubs (all shall be 1 gal.)		
<i>Ilex glabra</i>	Inkberry	95
<i>Itea virginica</i>	Virginia-willow	80
<i>Myrica cerifera</i>	Wax Myrtle	95
<i>Vaccinium corymbosum</i>	Highbush Blueberry	90
<i>Viburnum dentatum</i>	Southern Arrowwood	70
<i>Viburnum obovatum</i>	Small Viburnum	70

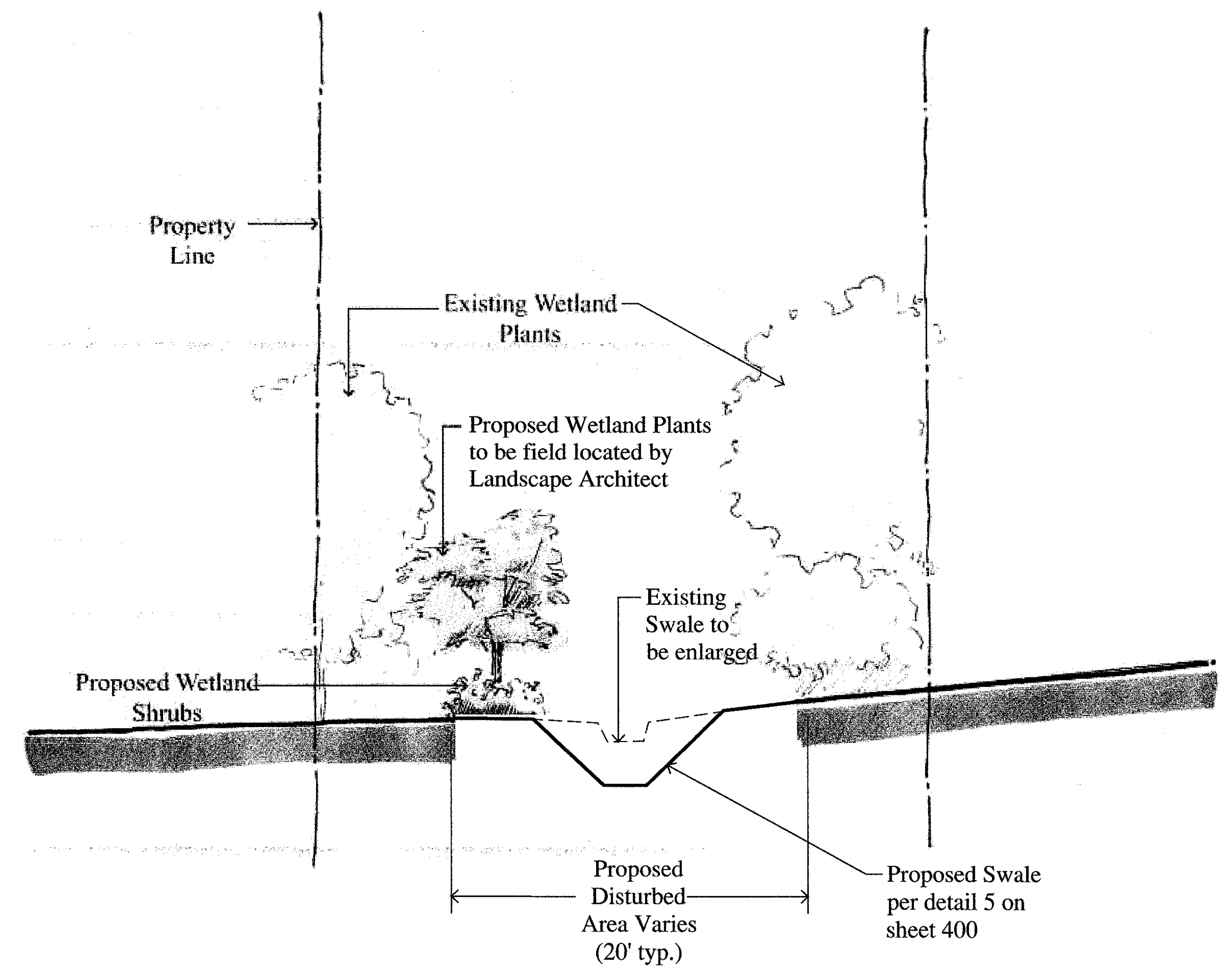
Groundcover, Vines, and Ferns (all shall be 1 gal. except carpetgrass)		
<i>Axonopus fissifolius (seed)</i>	Carpetgrass	50 lbs
<i>Dryopteris ludoviciana</i>	Southern Woodfern	100
<i>Panicum virgatum</i>	Switchgrass	300
<i>Juncus effusus</i>	Soft Rush	300
<i>Osmunda cinnamomea</i>	Cinnamon Fern	300

Wildflowers (all shall be 1 gal.)		
<i>Helianthus angustifolium</i>	Swamp Sunflower	125
<i>Iris hexagona</i>	Prairie Iris	125
<i>Liatris spicata</i>	Blazingstar	125
<i>Lobelia cardinalis</i>	Cardinal Flower	125



TYPICAL WETLAND PLAN

N.T.S



TYPICAL WETLAND SECTION

N.T.S

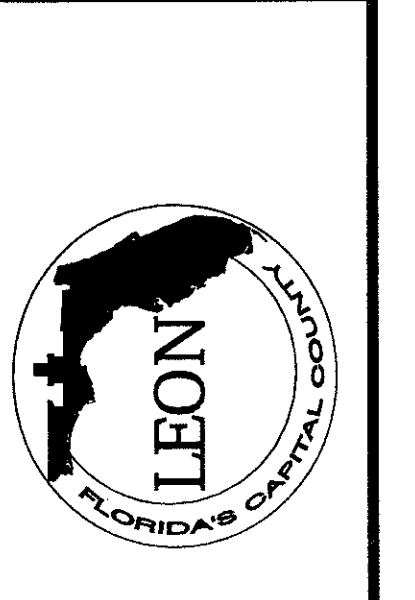
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JOB NO. 100014954  
MR. MR.  
DESIGNED GCB  
CHECKED WKJ  
OC  
WILLIAM K. JOHNSON  
P.E. NO. 41040  
NOT VALID FOR CONSTRUCTION  
UNLESS SIGNED IN THIS BLOCK

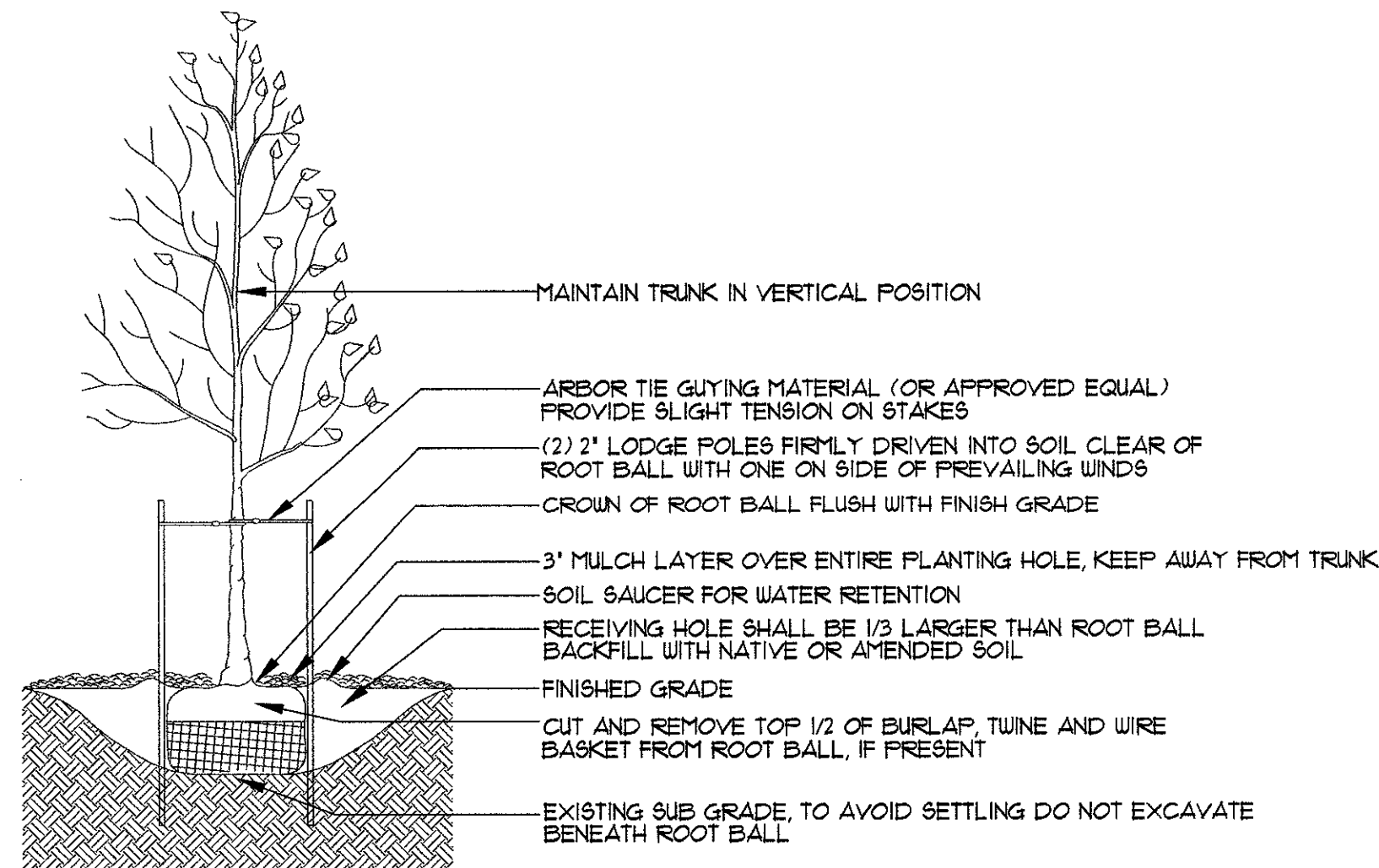
ORIGINAL: OCTOBER, 2012  
REVISIONS:  
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TASK  
**CONCEPTUAL LANDSCAPE RESTORATION PLANS**

PROJECT  
**Killearn Lakes Greenways Maintenance and Restoration Plans - Phase 1**

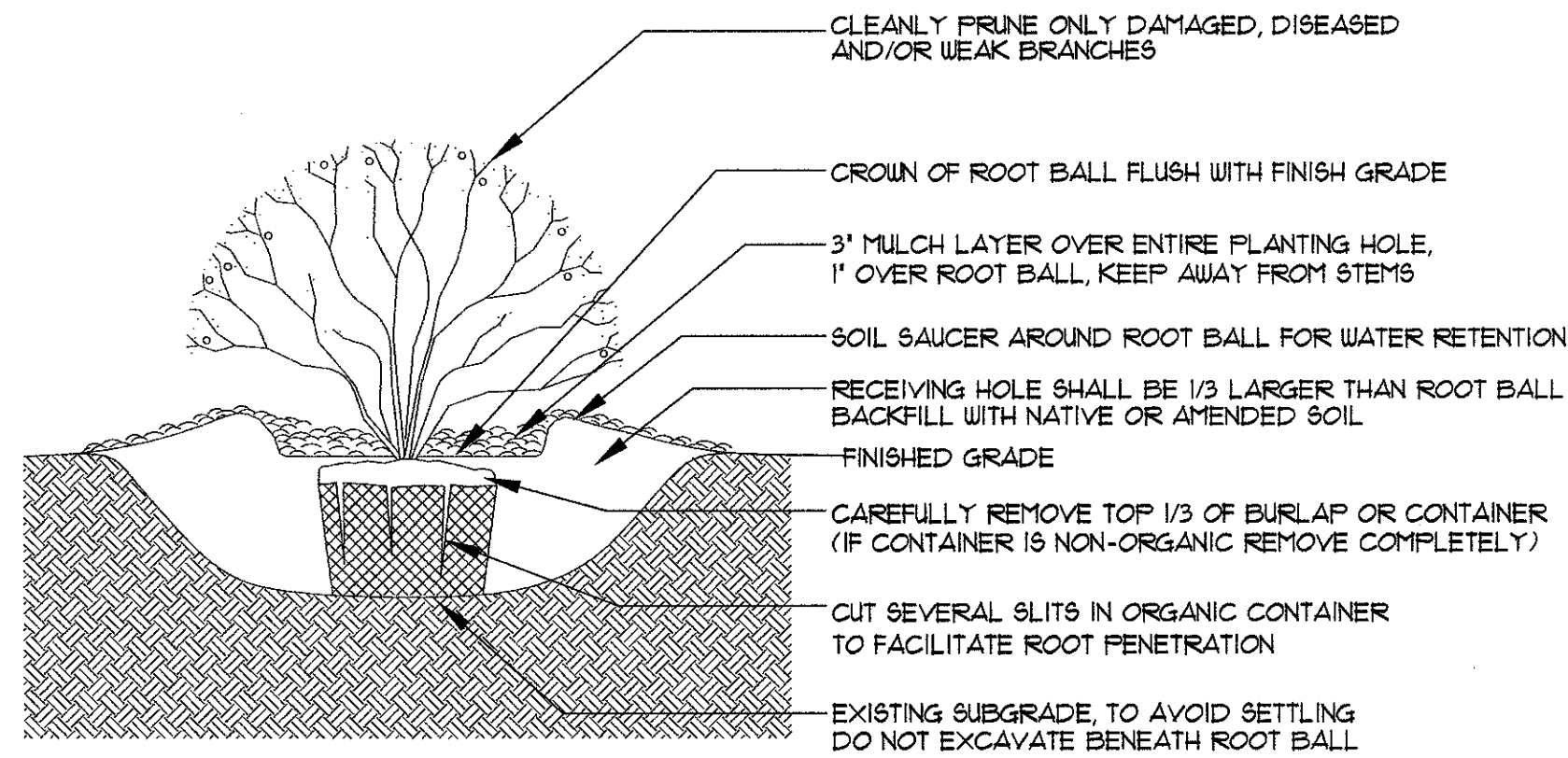


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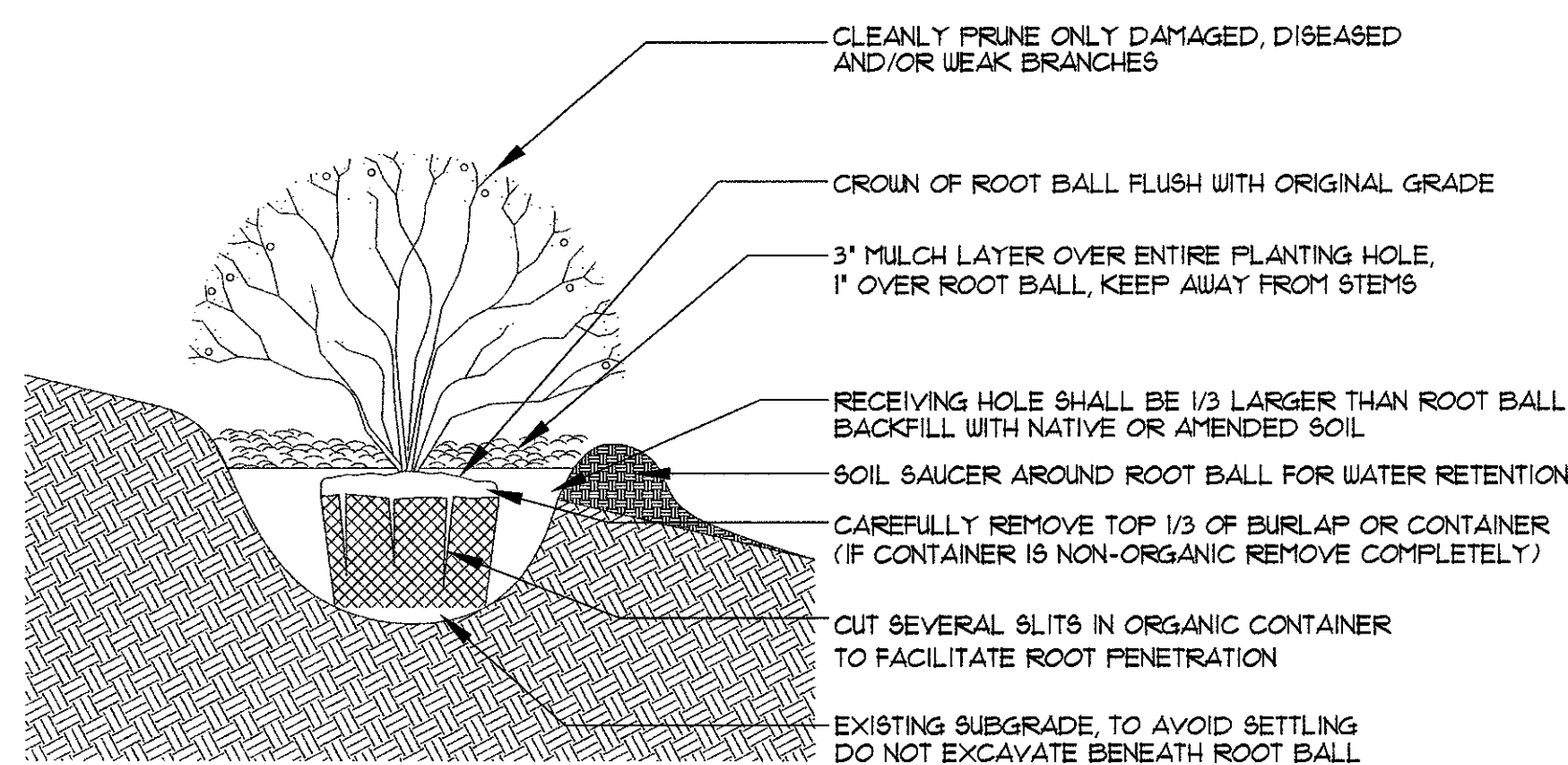
- NOTES:
- DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE.
  - WATER THOROUGHLY AFTER INSTALLATION.
  - REMOVE SAUCER AND STAKES ONE YEAR AFTER INSTALLATION.
  - PROVIDE DRAINAGE FOR PLANTING PIT IF IN IMPERMEABLE SOIL.

**1 TREE PLANTING/STAKING**  
DETAIL N.T.S.



- NOTES:
- WATER THOROUGHLY AFTER INSTALLATION.
  - PROVIDE WEED BARRIER FABRIC FOR ALL PLANTING BEDS. SEE GENERAL NOTES/CONTRACT DOCUMENTS FOR SPECIFICATION.
  - FOR PLANTING BED INSTALLATION EXCAVATE ENTIRE SHRUB BED AS SHOWN ON PROJECT DRAWINGS.
  - REMOVE SOIL SAUCER ONE YEAR AFTER INSTALLATION.

**2 SHRUB/GROUNDCOVER**  
PLANTING DETAIL N.T.S.



- NOTES:
- WATER THOROUGHLY AFTER INSTALLATION.
  - PROVIDE WEED BARRIER FABRIC FOR ALL PLANTING BEDS. SEE GENERAL NOTES/CONTRACT DOCUMENTS FOR SPECIFICATION.
  - FOR PLANTING BED INSTALLATION EXCAVATE ENTIRE SHRUB BED AS SHOWN ON PROJECT DRAWINGS.
  - REMOVE SOIL SAUCER ONE YEAR AFTER INSTALLATION.

**3 SHRUB/GROUNDCOVER**  
PLANTING DETAIL ON SLOPE N.T.S.

LANDSCAPE GENERAL NOTES:

- THE CONTRACTOR SHALL VERIFY THE EXISTENCE OF AND STAKE ALL UTILITIES PRIOR TO CONSTRUCTION. EXCAVATION OF PLANT PITS LOCATED WITHIN 5' OF UTILITIES SHALL BE PERFORMED BY HAND. ANY UTILITY/PLANT MATERIAL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OR ANY FIELD ADJUSTMENTS.
- THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR LEON COUNTY PUBLIC WORKS. ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS AS SPECIFIED BY THE LANDSCAPE ARCHITECT OR LEON COUNTY PUBLIC WORKS. THE CONTRACTOR SHALL GUARANTEE PLANT HEALTH AND SURVIVABILITY FOR ONE YEAR FROM DATE OF PROJECT ACCEPTANCE. ANY MATERIAL NOT MEETING SPECIFICATIONS OR DISPLAYING POOR HEALTH SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS SET FORTH IN GRASSES AND STANDARDS FOR NURSERY PLANTS, SECOND EDITION STANDARDS AND DESIGNATIONS. NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO PLANT DELIVERY TO SCHEDULE ON-SITE INSPECTION UPON DELIVERY. INSTALLED PLANT MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO MAKE PLANTING BED FIELD CHANGES TO ACCOMMODATE SITE CONDITIONS AND TO ACHIEVE THE DESIGN INTENT. THE LANDSCAPE CONTRACTOR SHALL FLAG ALL TREE AND BEDLINE LOCATIONS FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO ANY INSTALLATION.
- ALL PLANTS SHALL RECEIVE A 3\"/>

NOTE: THE LANDSCAPE SUPERVISOR FOR THIS PROJECT WILL BE:

Patricia H. Farley  
Landscape Designer, ATKINS  
2639 N. Monroe Street, Bldg. C  
Tallahassee, FL 32303  
Tel: (850) 575 1800

INVASIVE PLANT MANAGEMENT PLAN:

The Certified Arborist will coordinate with the Environmental Inspector and the Landscape Architect to specify to the contractor which trees or plants outside of the limits of construction, but within the Greenways are Invasive and/or Exotic Species to be removed as part of the mitigation for Wetland Impacts to this project.

The Arborist will also specify what method of removal, and herbicides are to be used, in such a way to minimize impacts to plants and trees that will remain, and be installed.

ARBORICULTURAL MITIGATION PLAN:

SITE MONITORING

All tree protection procedures and activities shall be monitored and approved throughout the construction period by a Certified Arborist.

SOIL TESTING

The Critical Protection Zone (CPZ) of the designated trees shall be soil tested for existing nutrient content to determine the necessity of fertilizer application and recommended percentages and rates. The soil samples shall be taken within the CPZ; multiple samples shall be taken if locations of obvious change in soil texture and color exist within the CPZ. Samples shall be submitted to IFAS Extension Soil Testing Laboratory or approved soil testing service for analysis and recommendations.

Percolation tests shall be performed within the CPZ of each designated tree to determine the necessity of soil aeration. Multiple samples shall be taken if locations of obvious change in soil texture and color exist within the CPZ.

The Certified Arborist shall be responsible for all soil testing. Submittals of samples shall be made to the Owner's Agent and the Landscape Architect for review.

WATERING

All protected trees shall be watered as necessary to deliver a minimum rate equivalent to one inch of rainfall per week. Application rate shall be dependent upon soil type and weather conditions. A tensiometer shall be required for verification of application rates. Care shall be taken to prevent water from soaking the base of trees and root collars. Irrigation shall commence as far in advance as possible to development activity and shall continue through the completion of the project. All watering shall be under the direction and supervision of the Certified Arborist.

ROOT PRUNING

Root pruning shall occur prior to site grading, earthwork, excavation or any other activity which may damage the roots of a tree proposed for mitigation in all areas of demolition or new construction requiring removal of existing roots: i.e. excavation, construction of footings, retaining walls, curbs paving and base. Roots shall be cut with a mechanical trenching device to a minimum depth of 18\"/>

PRUNING

Pruning shall be performed by a Certified Arborist in accordance with the ANSI A300 standards as directed on site by the Landscape Architect or determined by the Certified Arborist. Pruning and crown thinning shall be done to all dead and diseased limbs that harbor decay and all heavy concentrations of moss and vines shall be removed that compete with crown foliage. All branch removal for the clearance or raising of larger limbs for traffic or structures shall be done by the Certified Arborist. All limbs larger than six inch diameter that are proposed to be cut shall first be approved by the Certified Arborist and work performed by the Certified Arborist.

Removal of competing understory trees, shrubs and vines shall be done by the Certified Arborist. Any propagules of exotic invasive plants shall be removed from the site and destroyed in a manner that prevents the spread of invasive infestation.

SOIL AERATION

Soil aeration shall be performed by the Certified Arborist upon his recommendation based on results of percolation tests within the CPZ. If required, use a 1 1/2 - 1 3/4 inch diameter soil auger to drill holes to a depth of 12 inches every 24 inches apart, starting three feet from the trunk collar outward to five feet past the drip line of the tree. The entire area within the CPZ of the tree should be aerated.

MULCHING

Mulching shall be used throughout the project within the CPZ of the protected trees to the greatest extent possible. A 2-3 inch layer of mulch, preferably wood chips, shall be placed over the entire CPZ of the protected tree. Where heavy construction traffic will be located within a portion of the CPZ, a layer of 4-6 inches of wood chips, covered with 3/4 inch plywood placed over the mulch shall be placed down to lessen soil compaction and damage to the tree roots.

FERTILIZING

Fertilizing and pH adjustment should be in response to the soil test. Fertilize with a complete fertilizer, containing at least 5% nitrogen in organic form, including minor elements. Apply in the spring at a rate recommended by soil testing service. Fertilizer proposed for soil injection and/or liquid fertilization should be in a ratio of elements as determined by soil tests and the Certified Arborist as well as application method. Water soil immediately after initial application of fertilizer at a rate equivalent to one inch of rainfall.

JOB NO. 100014954  
DRAWN MFL  
DESIGNED GCB  
CHECKED WKJ  
OC  
SHEET L2.0

WILLIAM K. JOHNSON  
P.E. NO. 41040  
JULY 2012  
ORIGINAL  
REVISIONS:  
1  
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CONCEPTUAL  
LANDSCAPE  
RESTORATION PLANS

Killearn Lakes Greenways  
Maintenance and Restoration  
Plans - Phase 1



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