CONSTRUCTION DOCUMENTS

FOR

Magnolia Drive Multi-Use Trail and Water & Sewer Replacement (from South Meridian St. to Pontiac Dr)

FINANCIAL PROJECT ID 409803-7-58-01 (FEDERAL FUNDS)

PREPARED FOR

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

and

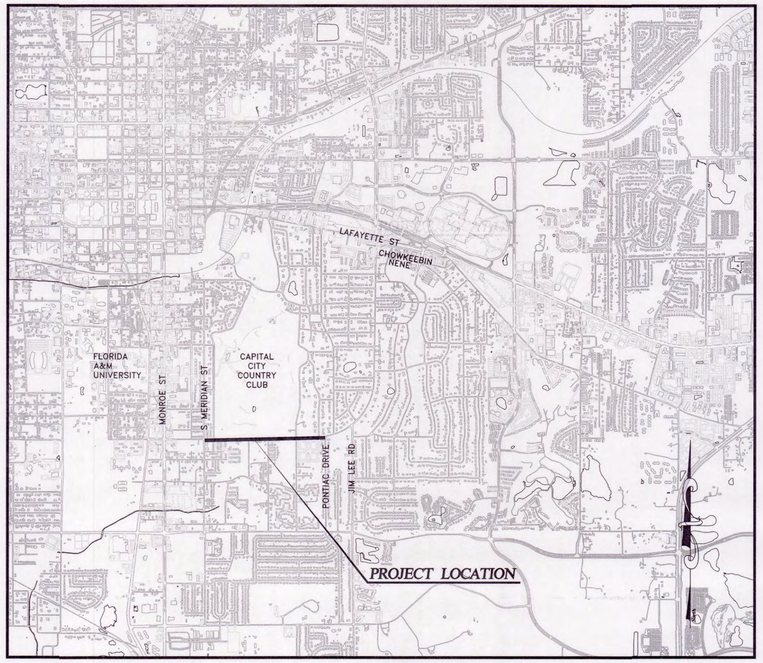
City of Tallahassee
Your Own Utilities℠

WATER UTILITY
300 S. Adams St. B-26
Tallahassee, Fl 32301
Ph: 850-891-6155 Fax: 850-891-6170

GENERAL NOTES

1. ELEVATIONS WITHIN THE PROJECT AREA SHOWN ON THESE PLANS ARE BASED ON A FIELD SURVEY BY MERIDIAN SURVEYING AND MAPPING INC. DATED MAY 1, 2014.
2. SURVEY DATUM-NAVD 1988.
3. GOVERNING DOT STANDARDS AND SPECIFICATIONS:
   Florida Department of Transportation 2015 Design Standards and revised Index Drawings, as appended herein, and Divisions II and III of the January 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.
   For Design Standards click on the "Design Standards" link at the following web site: http://www.dot.state.fl.us/rddesign/
   For the Standard Specifications for Road and Bridge Construction click on the "Specifications" link at the following web site: http://www.dot.state.fl.us/specificationsoffice/
4. ALL WATER AND SEWER REPLACEMENT SHALL BE IN ACCORDANCE WITH THE CITY OF TALLAHASSEE'S TECHNICAL SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION, LATEST EDITION.
5. AT THE PRE-CONSTRUCTION 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.
6. THE CONTRACTOR SHALL DESIGNATE A STORMWATER MANAGEMENT CONTROL OFFICER PRIOR TO THE PRE-CONSTRUCTION MEETING, AND WILL INFORM THE ENVIRONMENTAL INSPECTOR.
7. 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. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY UTILITIES AS MAY BE NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS. UNLESS OTHERWISE STATED, THE UTILITY OWNER WILL BE RESPONSIBLE FOR THE COST OF SAID RELOCATION.
8. HORIZONTAL AND VERTICAL CONTROL SHALL BE OBTAINED FROM THE PROJECT SURVEYOR, AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LAYOUT COSTS, MAINTAINING THE CONTROLS THROUGHOUT THE DURATION OF CONSTRUCTION, & FOR POST CONSTRUCTION AS-BUILT SURVEY.
9. ALL DISTURBED AREAS SHALL BE SODDED. ALL DISTURBED AREAS LEFT IDLE LONGER THAN 14 DAYS MUST BE STABILIZED WITH TEMPORARY SEED AND/OR MULCH. STREET SWEEPING SHALL BE PERFORMED AS NEEDED TO KEEP STREETS FREE OF SEDIMENT.
10. THE CONTRACTOR SHALL SUBMIT A POST-CONSTRUCTION CERTIFICATION AND REPRODUCIBLE RECORD DRAWINGS (AS-BUILT'S) TO THE ENGINEER PRIOR TO INSPECTION AND ACCEPTANCE. THE RECORD DRAWINGS SHALL BE PREPARED AND CERTIFIED BY A PROFESSIONAL LAND SURVEYOR.
11. CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF THE FOLLOWING PERMITS/ APPROVALS OBTAINED FOR THIS PROJECT.

    CITY OF TALLAHASSEE ENVIRONMENTAL MANAGEMENT PERMIT NO. TEM150009
    NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT NO. 1704
12. THE CONTRACTOR SHALL COMPLY WITH THE PERMITS LISTED ABOVE AS WELL AS ALL LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL ALSO MAINTAIN EROSION CONTROL DEVICES DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE SITE. THE EROSION CONTROL DEVICES SHOWN ON THE DEMOLITION AND EROSION CONTROL PLAN ARE THE MINIMUM REQUIRED AND SHALL BE MAINTAINED IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. ADDITIONAL EROSION CONTROLS MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR TO CONTROL SEDIMENTS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL STORMWATER RUNOFF SHALL BE CONTROLLED DURING THE COURSE OF CONSTRUCTION IN SUCH A MANNER AS TO PREVENT DAMAGE OR DETRIMENTAL HARM TO ADJACENT PROPERTY.
13. 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 ENGINEER, IN CONJUNCTION WITH THE ENVIRONMENTAL INSPECTOR AND LEON COUNTY PUBLIC WORKS, OR DESIGNATED FIELD REPRESENTATIVE.
14. AT LEAST FOURTEEN CALENDAR DAYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE THE CONTRACTOR SHALL SUBMIT A TENTATIVE BASE CONSTRUCTION SCHEDULE, TRAFFIC CONTROL PLAN, AND STAGING AREA PLAN TO THE ENGINEER, IN CONJUNCTION WITH THE ENVIRONMENTAL INSPECTOR AND LEON COUNTY PUBLIC WORKS, OR DESIGNATED FIELD REPRESENTATIVE 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.
15. THE CONTRACTOR SHALL NOTIFY AFFECTED PROPERTY OWNERS OF THE PROPOSED WORK SCHEDULE IN ADVANCE OF CONSTRUCTION, AND PERFORM THE WORK IN A MANNER THAT MINIMIZES DISTURBANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTIES THAT OCCURS AS A RESULT OF THE ACTIVITIES OF THE CONTRACTOR OR AGENTS THEREOF.
16. CONTRACTOR WILL BE RESPONSIBLE FOR PROPERLY DISPOSING OF ANY EXCAVATED MATERIAL OR DEBRIS IN ACCORDANCE WITH COUNTY STANDARDS.
17. A DISPOSAL SITE SHALL BE SUBMITTED BY THE CONTRACTOR AT OR PRIOR TO THE PRE-CONSTRUCTION MEETING, TO BE APPROVED BY THE ENGINEER, IN CONJUNCTION WITH THE ENVIRONMENTAL INSPECTOR AND LEON COUNTY PUBLIC WORKS, OR DESIGNATED FIELD REPRESENTATIVE. NO WORK WILL BEGIN PRIOR TO APPROVAL OF THE DISPOSAL SITE BY THE ENGINEER, IN CONJUNCTION WITH THE ENVIRONMENTAL INSPECTOR AND LEON COUNTY PUBLIC WORKS, OR DESIGNATED FIELD REPRESENTATIVE.
18. A COPY OF THE PERMIT WILL BE KEPT ON SITE. ALSO AN 8 ½ BY 11 WEATHER RESISTANT SIGN, INCLUDING THE PERMIT NUMBER SHALL BE PLACED ON THE PROPERTY FACING THE ROAD. THE CONTRACTOR IS REQUIRED TO REVIEW THE COMPLETE PERMIT PRIOR TO CONSTRUCTION COMMENCEMENT.
19. 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.
20. ANTICIPATED START OF CONSTRUCTION DATE IS AUGUST 2015, AND IS ANTICIPATED TO TAKE 180 DAYS.
21. CONTRACTOR SHALL NOT DISTURB PRIVATE PROPERTY, OR ANY AREA OUTSIDE OF PUBLIC RIGHT-OF-WAY OR UTILITY EASEMENTS.
22. OVERHEAD ELECTRIC PRESENT IN WORK AREA. MAINTAIN MIN. 10' CLEARANCE FROM OVERHEAD ELECTRIC PRIMARY AND NEUTRAL LINES OR AS REQUIRED BY CURRENT OSHA STANDARDS OR C.O.T. ELECTRIC, WHICHEVER IS GREATER.
23. THE CONTRACTOR SHALL OBTAIN AN NPDES PERMIT FROM FDEP PRIOR TO COMMENCEMENT OF WORK.
24. THE CONTRACTOR SHALL REPLACE ALL DISTURBED PAVEMENT AS A RESULT OF ANY C.O.T. PIPE INSTALLATIONS PER THE DETAILS SHOWN IN THE C.O.T. STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION, AND THEN MILL AND OVERLAY THE ENTIRE DISTURBED ROADWAY BEYOND ANY ASPHALT PATCHES TO MATCH EXISTING PAVEMENT GRADE AS SHOWN ON THE WATER AND SEWER PLAN AND PROFILE SHEETS. THE CONTRACTOR SHALL REPLACE ALL EXISTING STRIPING PER FDOT INDEX 17346, ALL PROPOSED STRIPING SHALL BE THERMOPLASTIC.
25. THE CONTRACTOR SHALL LOCATE ALL AFFECTED WATER AND SEWER SERVICE LATERALS AND REPLACE THEM AS SHOWN IN THE C.O.T. STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION.
26. ALL EXISTING VALVES, WATER AND SEWER LINES TO BE REMOVED FROM SERVICE SHALL BE PHYSICALLY REMOVED. IN CASES WHERE IT IS NOT PRACTICAL TO BE PHYSICALLY REMOVED, SUCH AS WORK THAT IS ADJACENT TO EXISTING GAS OR OTHER UTILITIES TO REMAIN, THEN THE LINE SHALL BE CAPPED AT ALL ENDS AND FILLED WITH A FLOWABLE FILL GROUT AND ABANDONED. ALL EXISTING VALVES THAT WILL BE REMOVED FROM SERVICE MUST BE PHYSICALLY REMOVED OR CLEARLY MARKED AS ABANDONED AND THEIR VALVES BOXES MUST BE REMOVED.
27. ALL PROPOSED SANITARY SEWER PIPE CONNECTIONS TO EXISTING VCP PIPES SHALL BE MADE USING A CONCRETE COLLAR.
28. ALL SIDEWALKS, CROSS WALKS, CURB RAMPS, DRIVEWAYS AND ANY OTHER PEDESTRIAN FACILITIES SHALL COMPLY WITH ADA REQUIREMENTS.



LOCATION MAP
N.T.S.

PREPARED BY:

ATKINS

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

MAY 4, 2015

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NOTE:
THIS PLAN SET ONLY INCLUDES THE SHEET NUMBERS IDENTIFIED IN THIS SHEET INDEX ABOVE.
MISSING SHEET NUMBERS ARE FOR FUTURE PHASES AND ARE NOT INCLUDED IN THE SCOPE OF WORK.

NOTE:
EXTREME CAUTION ! – UNDERGROUND GAS AND OVERHEAD ELECTRIC PRESENT IN CONSTRUCTION AREAS. CONTRACTOR MUST USE EXTREME CAUTION DURING ANY EXCAVATIONS OR DIGGING, AND REFER TO GENERAL NOTES #7 & 22.

SURVEYOR OF RECORD:
Steven W. Stinson
Meridian Surveying and Mapping, Inc.
3201 Shamrock Street South, Suite #101
Tallahassee, Florida 32301
Phone: 850.668.7641

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

WILLIAM K. JOHNSON
LICENSE
NO. 41040
STATE OF FLORIDA
PROFESSIONAL ENGINEER

MAGNOLIA DR MULTI-USE TRAIL & WATER AND SEWER REPLACEMENT 100038929 & 100041888

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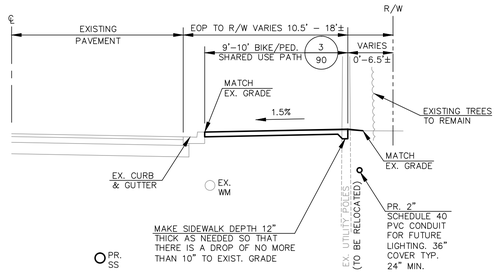
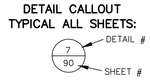
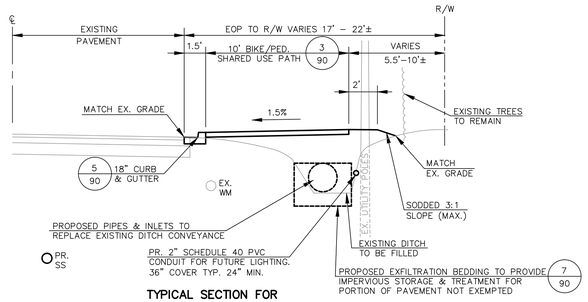


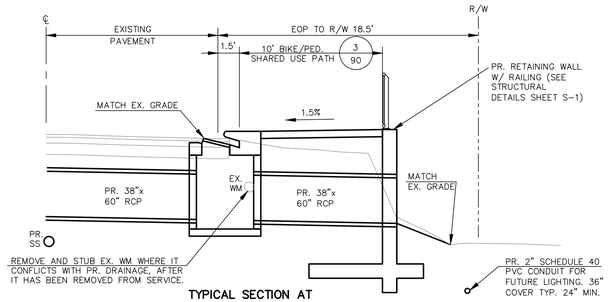
TYPICAL SECTION FOR
MERIDIAN RD TO MAG. TERR. APTS
SCALE: 1" = 5'

DETAIL CALLOUT
TYPICAL ALL SHEETS:

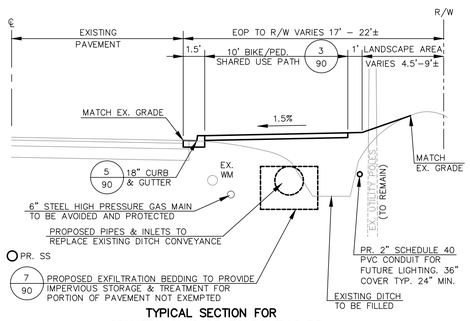




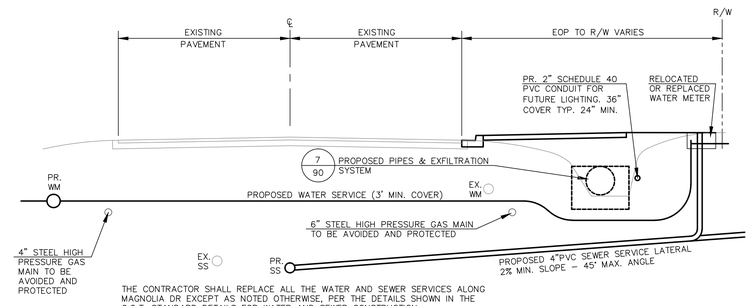
TYPICAL SECTION FOR
MAG. TERR. APTS TO COUNTRY CLUB DR
SCALE: 1" = 5'



TYPICAL SECTION AT
FLOODPLAIN ACROSS FROM COUNTRY CLUB
SCALE: 1" = 5'



TYPICAL SECTION FOR
COUNTRY CLUB DR TO PONTIAC DR
SCALE: 1" = 5'



THE CONTRACTOR SHALL REPLACE ALL THE WATER AND SEWER SERVICES ALONG MAGNOLIA DR EXCEPT AS NOTED OTHERWISE, PER THE DETAILS SHOWN IN THE C.O.T. STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION.

SERVICE LATERAL CONNECTION TYPICAL SECTION
NTS

NOTE:
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JOB NO. 100038929 100041868
DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 2

WILLIAM K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
1
2
3
4
5

TASK
TYPICAL SECTIONS

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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

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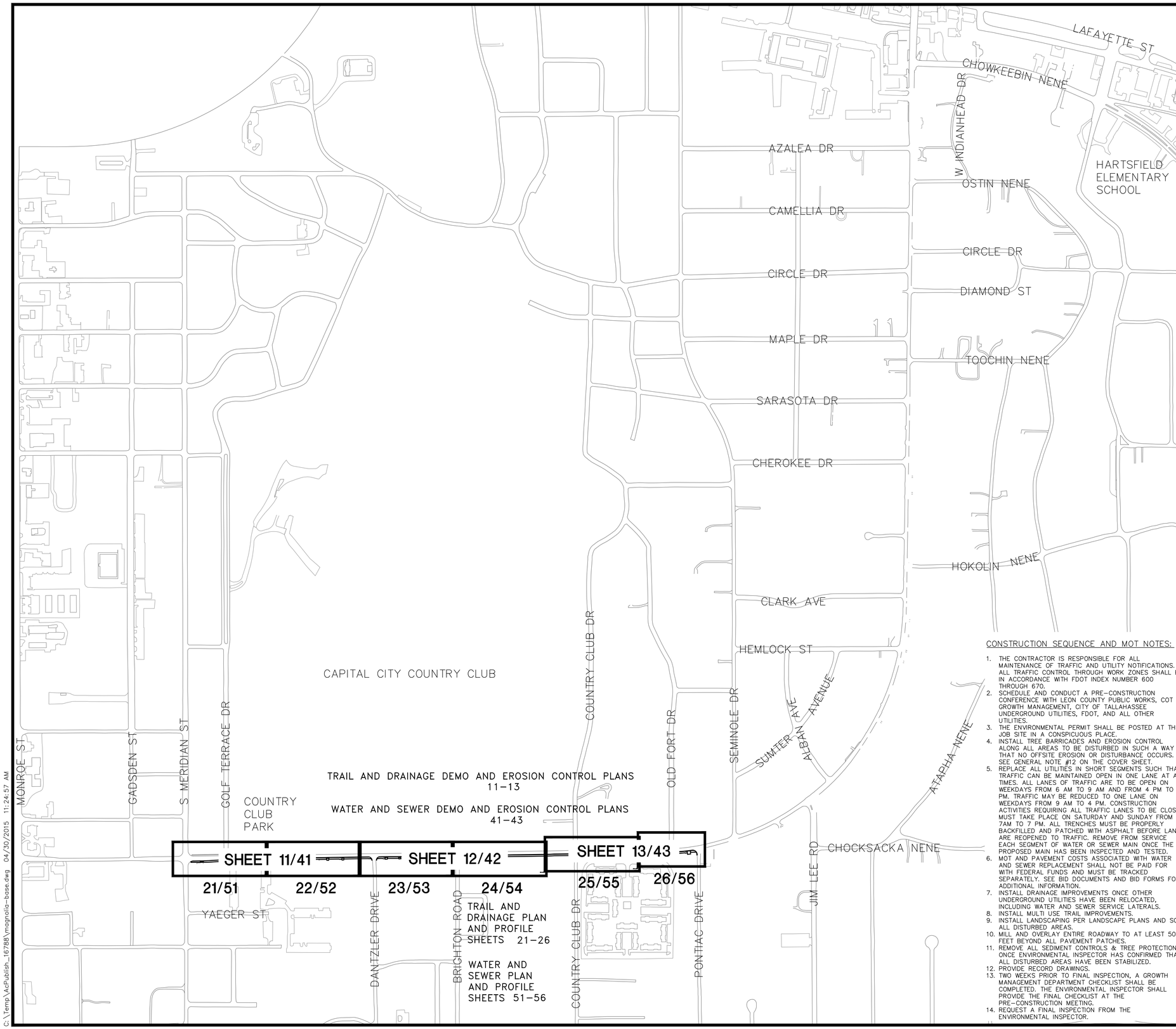


300 0 150 300
1 inch = 300 ft.

LEGEND / SYMBOLS

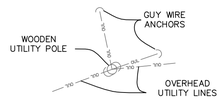
- WV – WATER VALVE LOCATION
- FH – FIRE HYDRANT LOCATION
- WM – WATER METER LOCATION
- GV – GAS VALVE LOCATION
- F.O.C. – FIBER OPTIC CABLE WARNING POST
- TEL_PED – TELEPHONE PEDESTAL
- D – DRAINAGE MANHOLE
- S – SANITARY SEWER MANHOLE
- SSCO – EXIST. SANITARY SEWER CLEANOUT
- SIRC 5/8" LB #7834 N 516464.2223 E 2040129.6335 Z 69.65 – SITE CONTROL LOCATION / INFORMATION
- WM – PR. WATER MAIN
- SS – PR. SAN. SEWER
- PR. DRAINAGE PIPES
- UG – PR. 2" CONDUIT FOR FUT. LIGHTING
- W – EX. WATER MAIN
- W – EX. WAT. MAIN TO BE REM. FROM SVC
- SS – EX. SAN. SEWER
- SS – EX. SAN. SEW. TO BE REM. FROM SVC
- EX. DRAINAGE PIPES
- GAS – EX. GAS MAIN
- 6"G – EX. 6" STEEL GAS MAIN
- BT – EX. BURRIED TEL.
- OUL – EX. OVERHEAD UTILITIES
- BFO – EX. BURRIED FIBER OPTIC

DR.C/O	– DRAINAGE CLEANOUT
INV.	– INVERT
(D)	– DESIGN INFORMATION
(S)	– SURVEY INFORMATION
M.E.S.	– MITERED ENDSECTION
RCP	– REINFORCED CONCRETE PIPE
L.F./LF.	– LINEAR FEET
SSCO	– SANITARY SEWER CLEANOUT
PVC	– POLYVINYL CHLORIDE PIPE
MAG	– MAGNOLIA
CM	– CREPE MYRTLE
TRANS.	– ELECTRIC TRANSFORMER
CONC.	– CONCRETE
A/C	– AIR CONDITIONING
ERCP	– ELLIPTICAL REINFORCED CONCRETE PIPE
× 42.9	– SPOT ELEVATION
	– LAMP POST
21"Live Oak	– DENOTES TREE LOCATION, SIZE & TYPE.
(TBR)	– TO BE REMOVED
EX.	– EXISTING
PR.	– PROPOSED
	– INLET PROTECTION SEE DETAIL 11 ON SHEET 90
DIP	– DUCTILE IRON PIPE
o C.O.	– PR. SANITARY SEWER CLEANOUT

CONSTRUCTION SEQUENCE AND MOT NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC AND UTILITY NOTIFICATIONS. ALL TRAFFIC CONTROL THROUGH WORK ZONES SHALL BE IN ACCORDANCE WITH FDOT INDEX NUMBER 600 THROUGH 670.
2. SCHEDULE AND CONDUCT A PRE–CONSTRUCTION CONFERENCE WITH LEON COUNTY PUBLIC WORKS, COT GROWTH MANAGEMENT, CITY OF TALLAHASSEE UNDERGROUND UTILITIES, FDOT, AND ALL OTHER UTILITIES.
3. THE ENVIRONMENTAL PERMIT SHALL BE POSTED AT THE JOB SITE IN A CONSPICUOUS PLACE.
4. INSTALL TREE BARRICADES AND EROSION CONTROL ALONG ALL AREAS TO BE DISTURBED IN SUCH A WAY THAT NO OFFSITE EROSION OR DISTURBANCE OCCURS. SEE GENERAL NOTE #12 ON THE COVER SHEET.
5. REPLACE ALL UTILITIES IN SHORT SEGMENTS SUCH THAT TRAFFIC CAN BE MAINTAINED OPEN IN ONE LANE AT ALL TIMES. ALL LANES OF TRAFFIC ARE TO BE OPEN ON WEEKDAYS FROM 6 AM TO 9 AM AND FROM 4 PM TO 6 PM. TRAFFIC MAY BE REDUCED TO ONE LANE ON WEEKDAYS FROM 9 AM TO 4 PM. CONSTRUCTION ACTIVITIES REQUIRING ALL TRAFFIC LANES TO BE CLOSED MUST TAKE PLACE ON SATURDAY AND SUNDAY FROM 7AM TO 7 PM. ALL TRENCHES MUST BE PROPERLY BACKFILLED AND PATCHED WITH ASPHALT BEFORE LANES ARE REOPENED TO TRAFFIC. REMOVE FROM SERVICE EACH SEGMENT OF WATER OR SEWER MAIN ONCE THE PROPOSED MAIN HAS BEEN INSPECTED AND TESTED.
6. MOT AND PAVEMENT COSTS ASSOCIATED WITH WATER AND SEWER REPLACEMENT SHALL NOT BE PAID FOR WITH FEDERAL FUNDS AND MUST BE TRACKED SEPARATELY. SEE BID DOCUMENTS AND BID FORMS FOR ADDITIONAL INFORMATION.
7. INSTALL DRAINAGE IMPROVEMENTS ONCE OTHER UNDERGROUND UTILITIES HAVE BEEN RELOCATED, INCLUDING WATER AND SEWER SERVICE LATERALS.
8. INSTALL MULTI USE TRAIL IMPROVEMENTS.
9. INSTALL LANDSCAPING PER LANDSCAPE PLANS AND SOD ALL DISTURBED AREAS.
10. MILL AND OVERLAY ENTIRE ROADWAY TO AT LEAST 50 FEET BEYOND ALL PAVEMENT PATCHES.
11. REMOVE ALL SEDIMENT CONTROLS & TREE PROTECTION, ONCE ENVIRONMENTAL INSPECTOR HAS CONFIRMED THAT ALL DISTURBED AREAS HAVE BEEN STABILIZED.
12. PROVIDE RECORD DRAWINGS.
13. TWO WEEKS PRIOR TO FINAL INSPECTION, A GROWTH MANAGEMENT DEPARTMENT CHECKLIST SHALL BE COMPLETED. THE ENVIRONMENTAL INSPECTOR SHALL PROVIDE THE FINAL CHECKLIST AT THE PRE–CONSTRUCTION MEETING.
14. REQUEST A FINAL INSPECTION FROM THE ENVIRONMENTAL INSPECTOR.

UTILITY POLE / LINES DETAIL



NOTES

1. HORIZONTAL LOCATION IS BASED ON FLORIDA STATE PLANE COORDINATES, FLORIDA NORTH PROJECTION, NAD83 DATUM. STATE PLAIN ORIENTATION WAS ESTABLISH USING NGS PUBLISHED STATE PLAIN MONUMENT "TLC 1 31 1N1E" AND IT'S AZIMUTH POINT, GRID BEARING: N72°02'32"W, GRID DISTANCE: 720.90', AND F.D.O.T. GPS POINT "55–99–001H". THE ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 DATUM, ESTABLISHED USING NGS OUBLISHED BENCHMARK "LEO 118", AND F.D.O.T. BENCHMARK "55–07–A01V".
2. EXTREME CAUTION ! – UNDERGROUND GAS AND OVERHEAD ELECTRIC PRESENT IN CONSTRUCTION AREAS. CONTRACTOR MUST USE EXTREME CAUTION DURING ANY EXCAVATIONS OR DIGGING. MAINTAIN MIN. 10' OSHA CLEARANCE FROM OVERHEAD ELECTRIC PRIMARY AND NEUTRAL LINES AS REQUIRED BY CURRENT OSHA STANDARDS. 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. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY UTILITIES AS MAY BE NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS.

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CHECKED WKJ
QC GB
SHEET 3

WILLIAM K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
KEY MAP

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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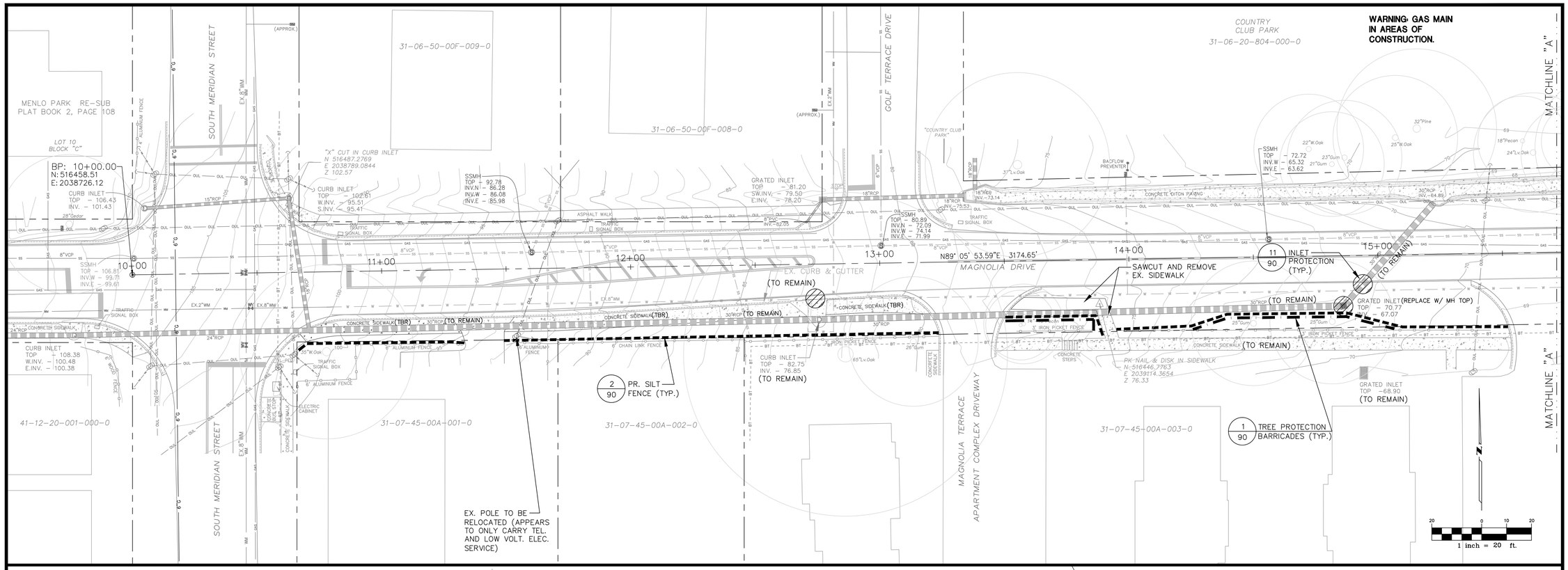

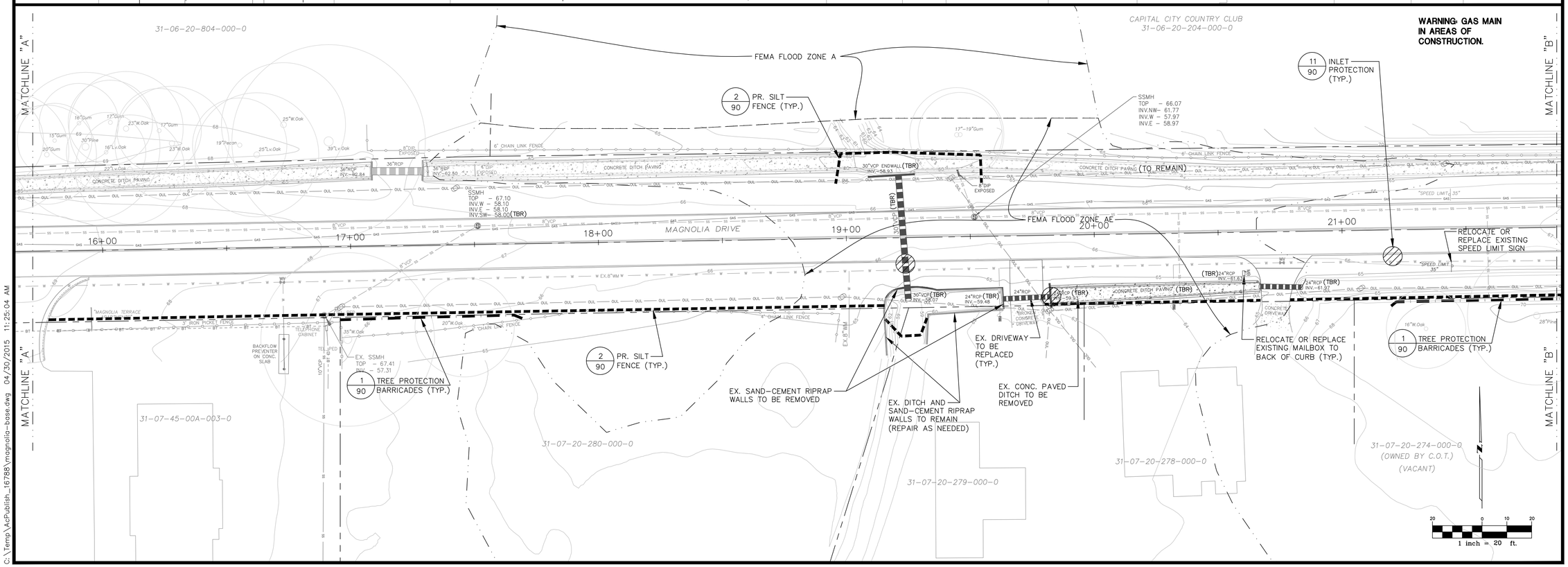

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TASK
EX. CONDITIONS, TRAIL AND DRAINAGE DEMO AND EROSION CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

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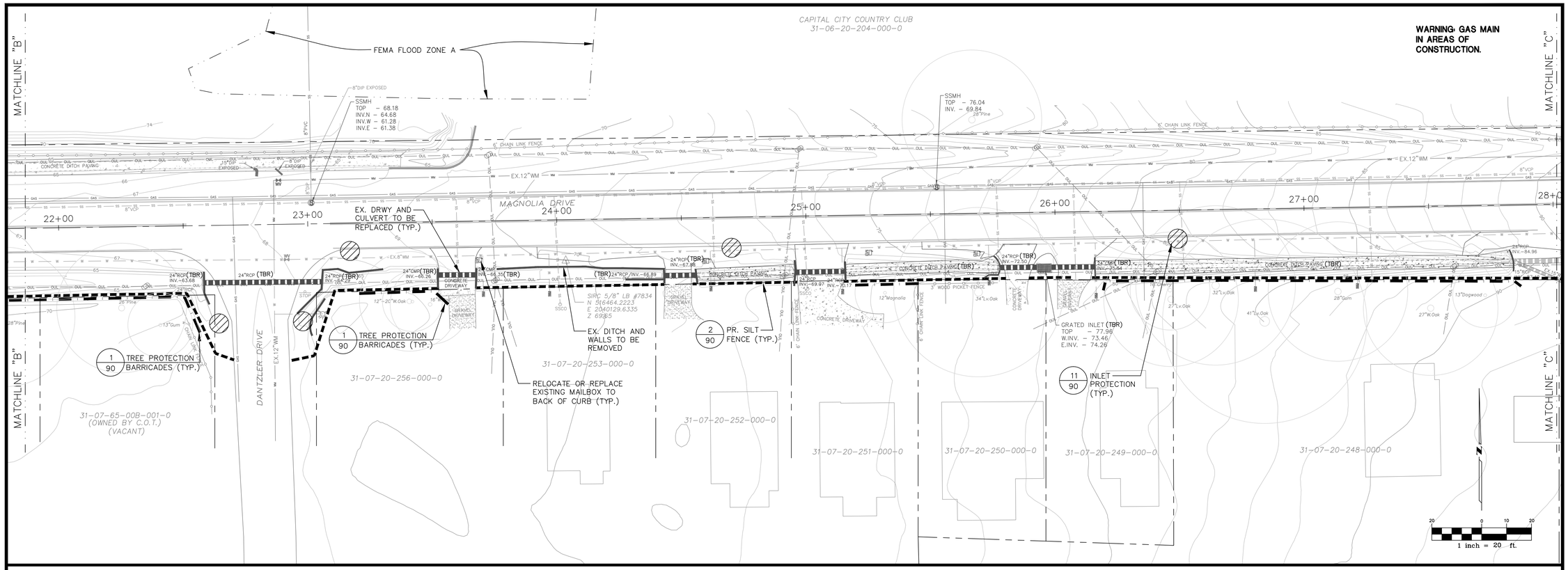

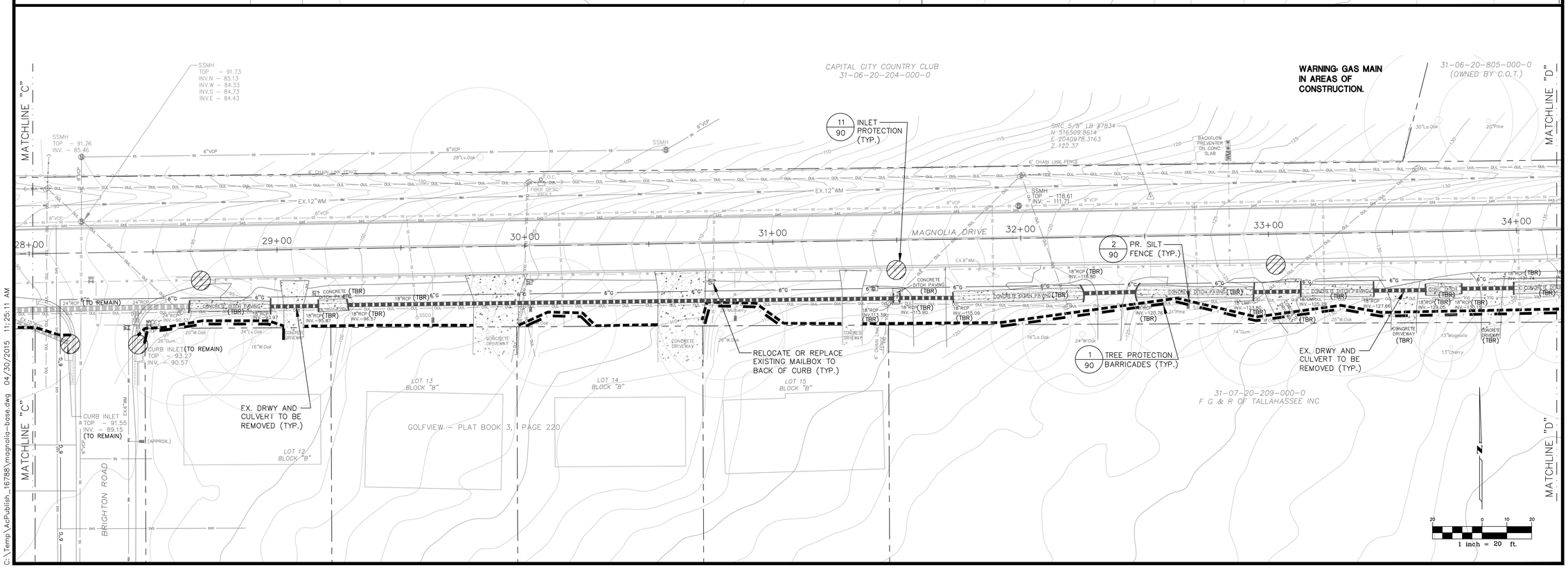

JOB NO. 100038929 100041888
DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 12

W. K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
1
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5

TASK
EX. CONDITIONS, TRAIL AND DRAINAGE DEMO AND EROSION CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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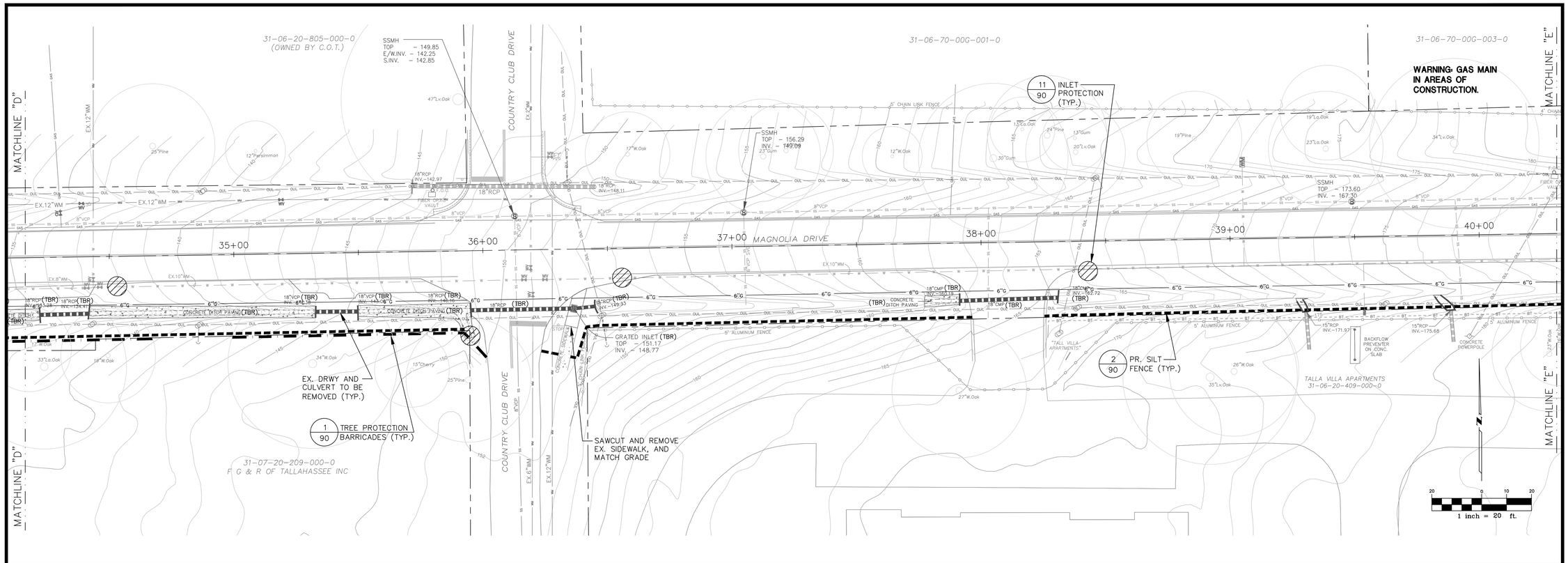

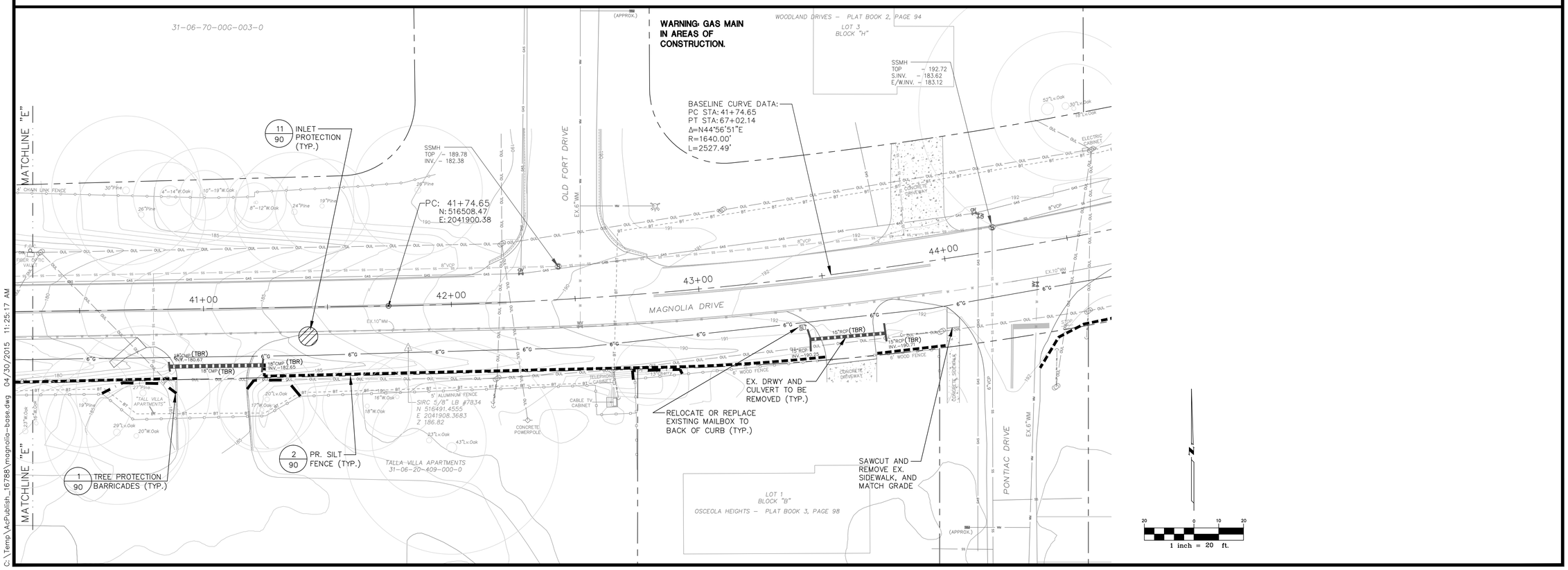

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 13

WILLIAM K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
EX. CONDITIONS, TRAIL AND DRAINAGE DEMO AND EROSION CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
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LEON FLORIDA'S CAPITAL COUNTY

ATKINS
2639 N. Monroe St.
Building C
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850.575.1800
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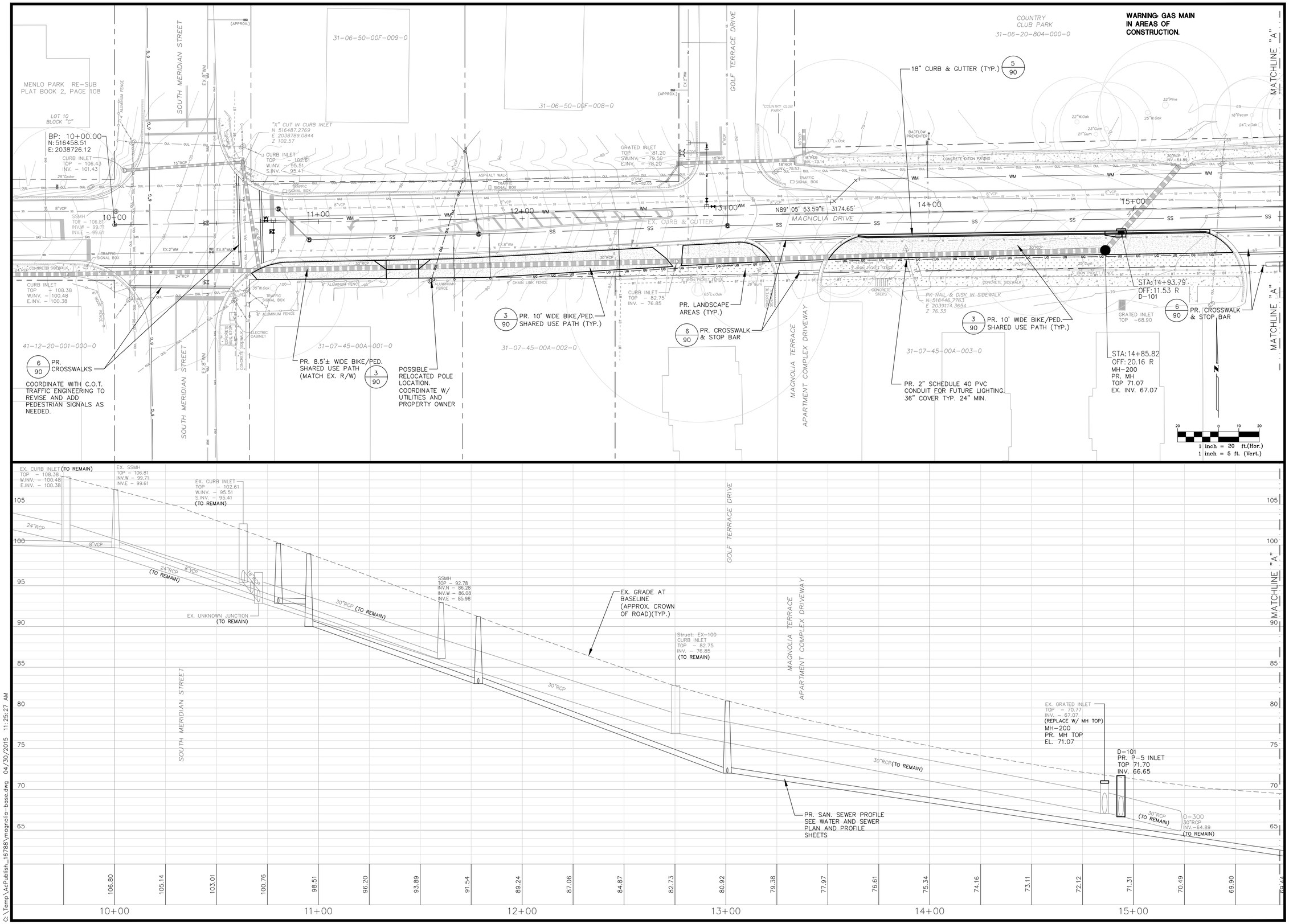

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 21

W.K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
TRAIL AND DRAINAGE PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
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Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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2639 N. Monroe St.
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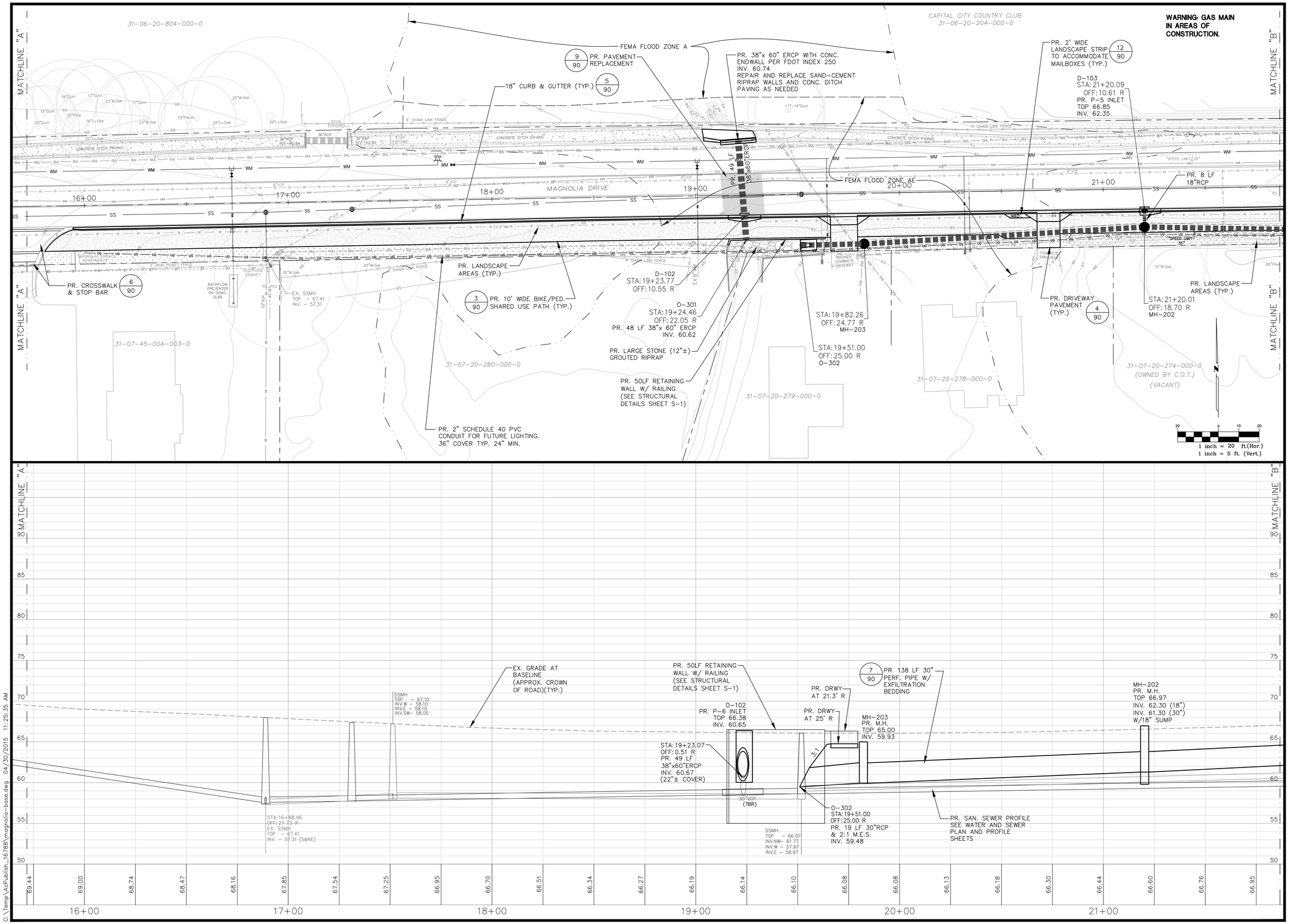

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 22

WILLIAM K. JOHNSON P.E. NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
TRAIL AND DRAINAGE PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

ATKINS
2639 N. Monroe St.
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Tallahassee, Florida 32303
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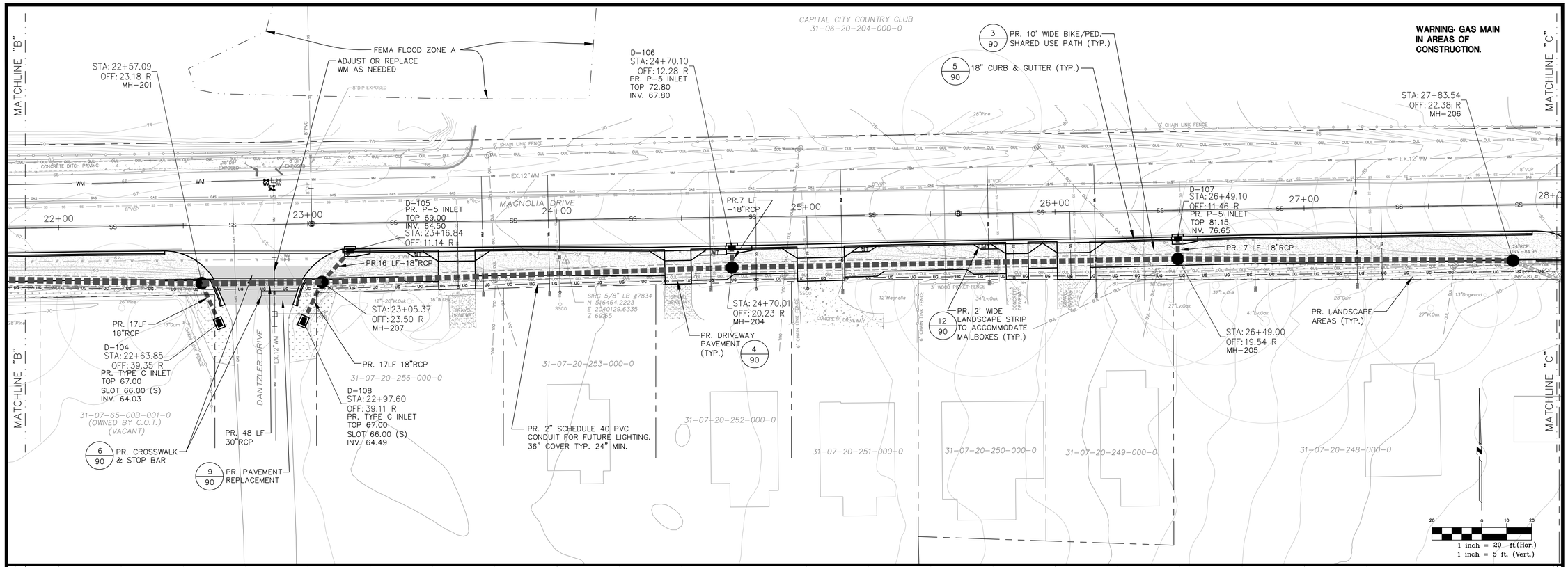

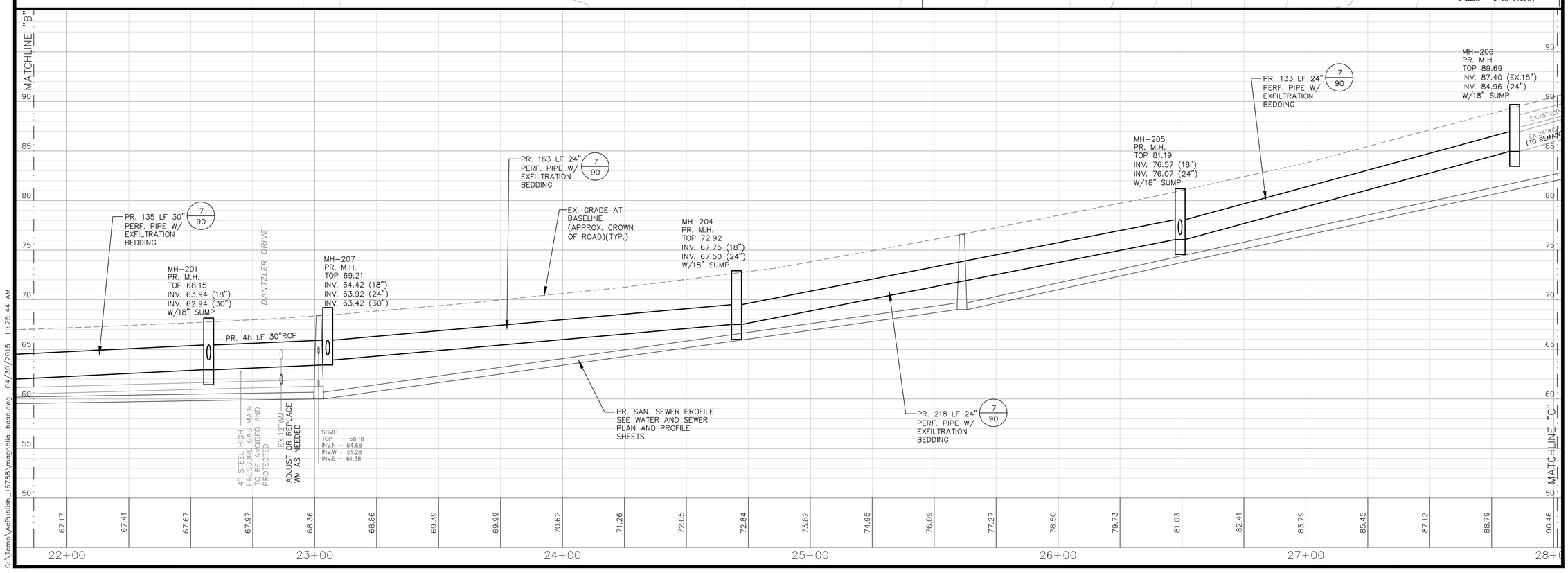

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 23

W.K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
TRAIL AND DRAINAGE PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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LEON FLORIDA'S CAPITAL COUNTY

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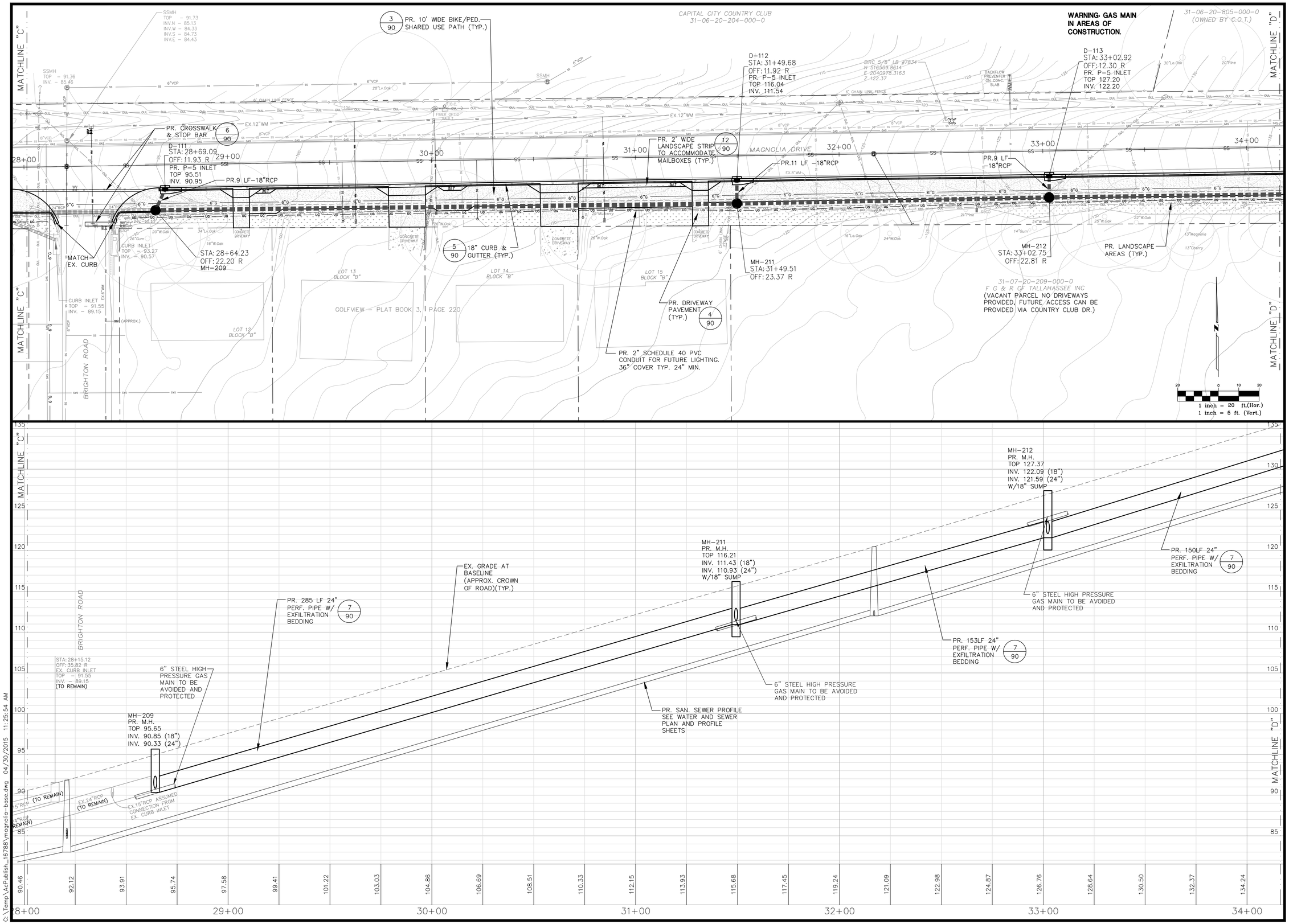

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DESIGNED MR
CHECKED WKJ
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SHEET 24

WILLIAM K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
TRAIL AND DRAINAGE PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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LEON FLORIDA'S CAPITAL COUNTY

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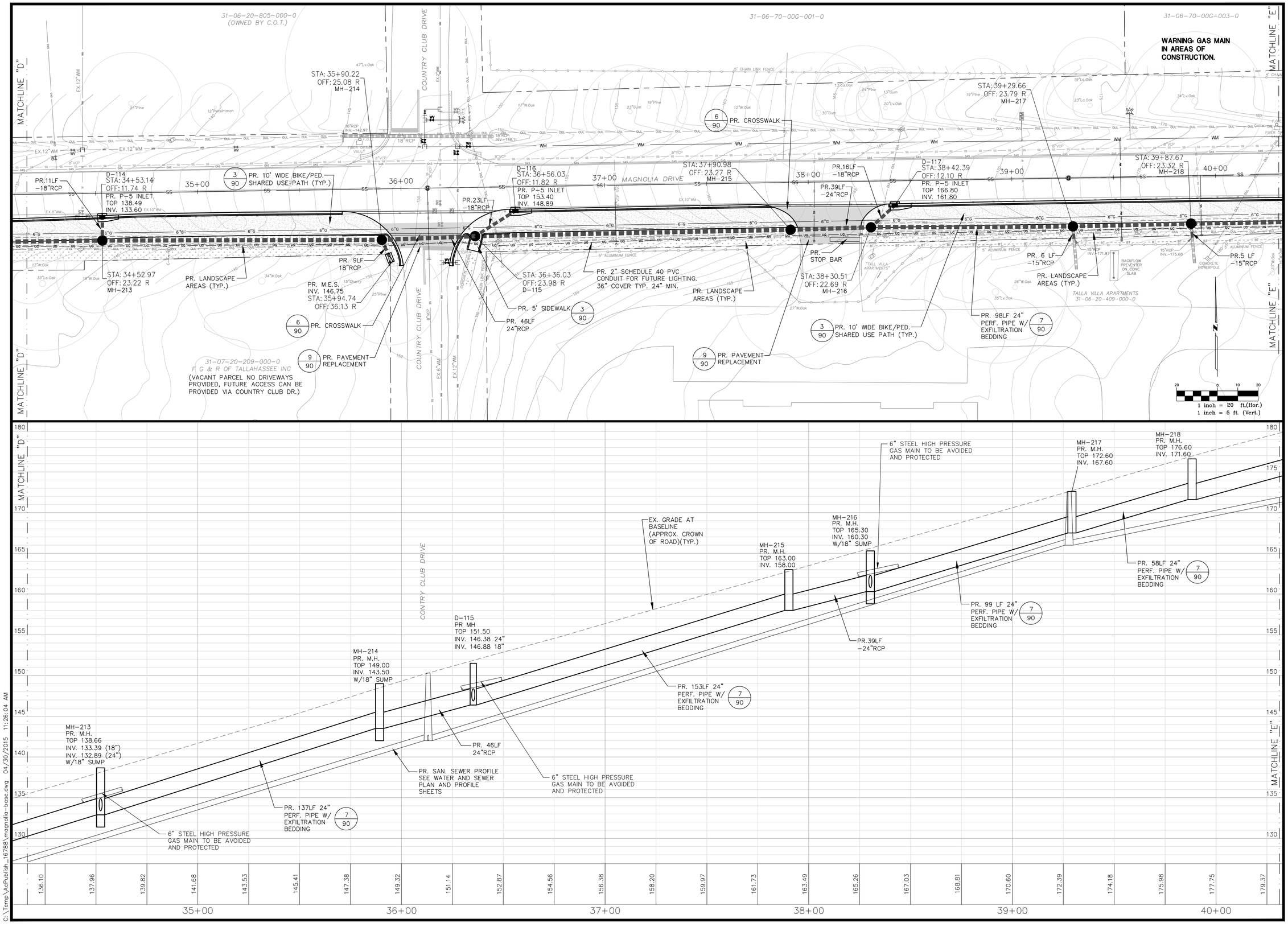

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 25

W. K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
TRAIL AND DRAINAGE PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
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DESIGNED MR
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QC GB
SHEET 26

W.K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
TRAIL AND DRAINAGE PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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LEON FLORIDA'S CAPITAL COUNTY

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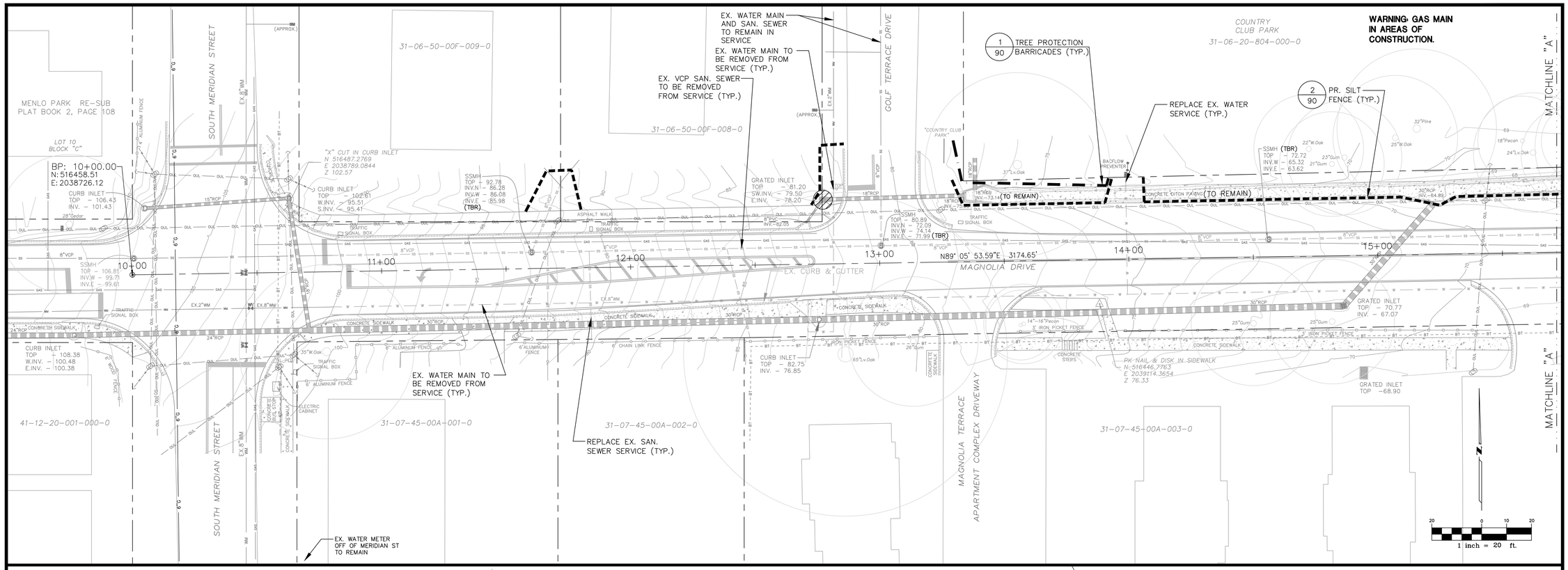
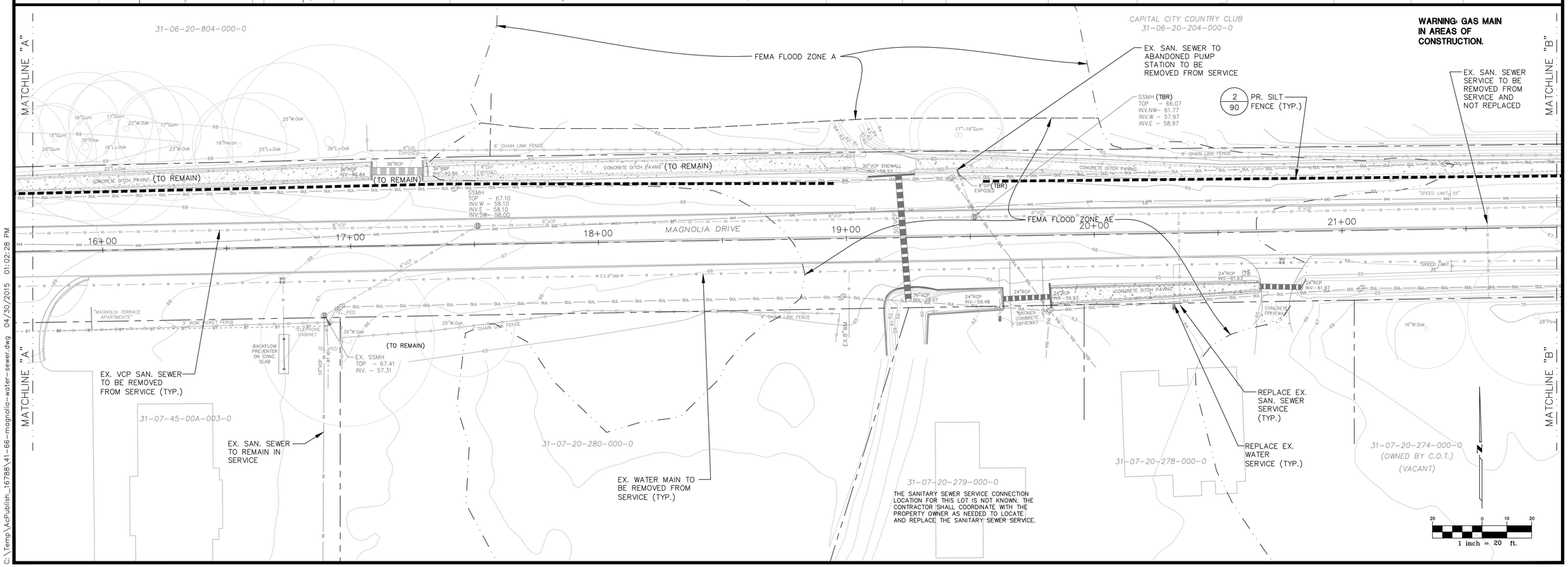
FBPR Certificate of Authorization No. 24





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JOB NO. 100038929 100041868
DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 41

WILLIAM K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL REVISIONS: APRIL 29, 2015
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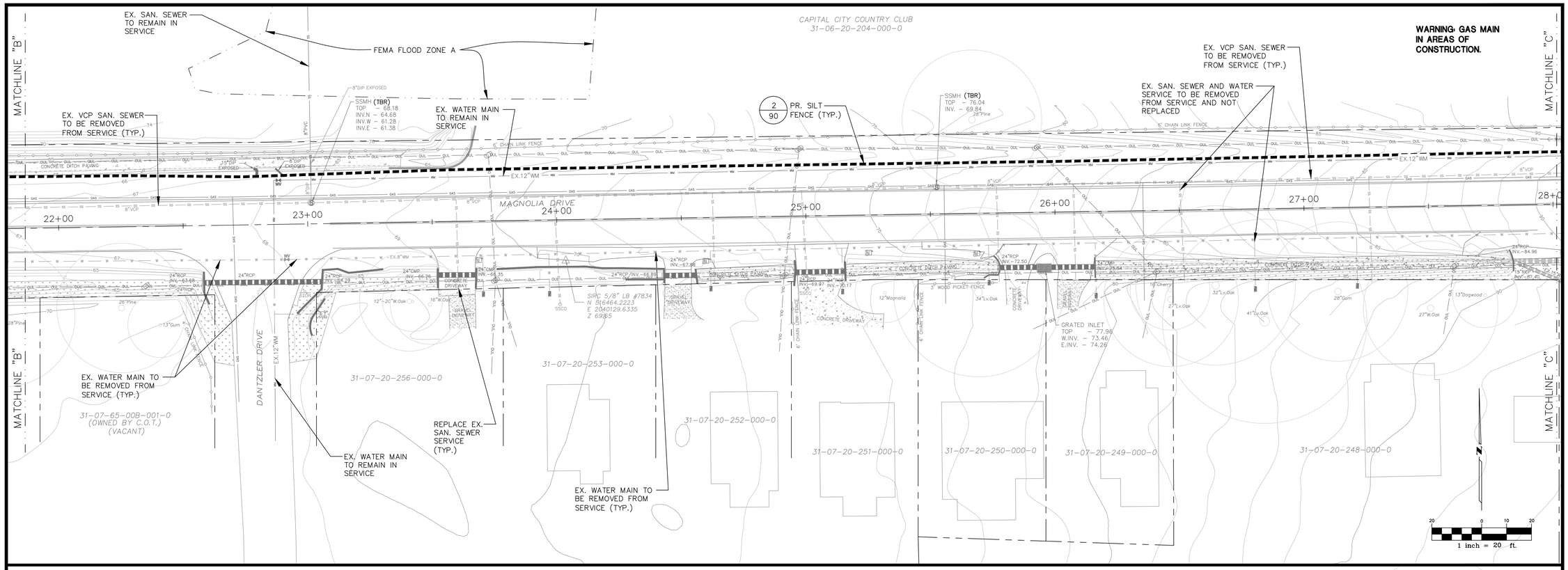
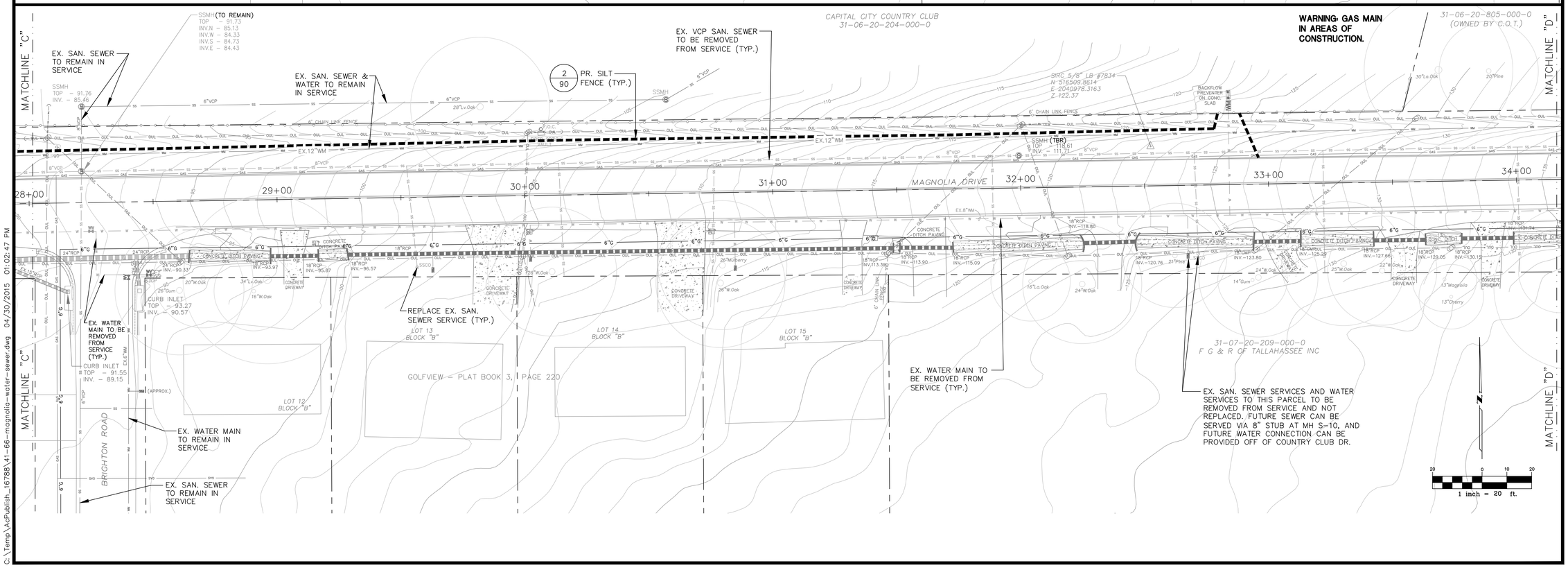
TASK
EX. CONDITIONS, WATER AND SEWER DEMO AND EROSION CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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





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DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 42

WILLIAM K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL REVISIONS: APRIL 29, 2015
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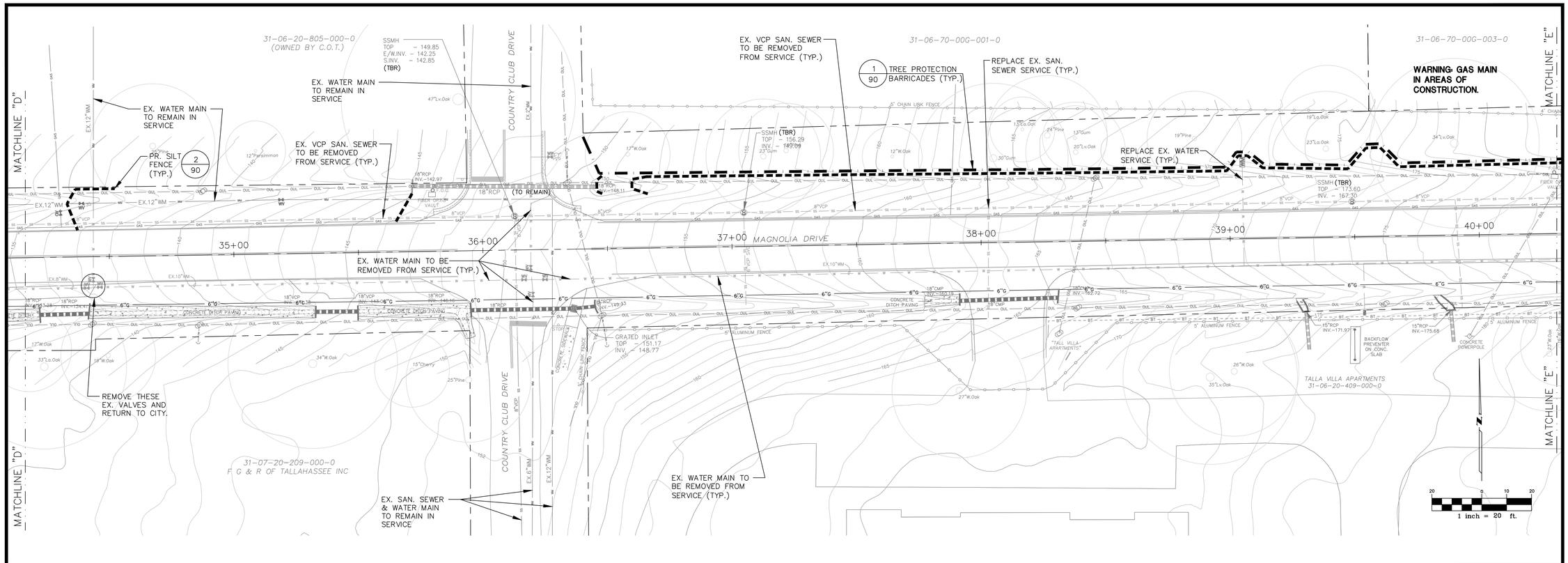
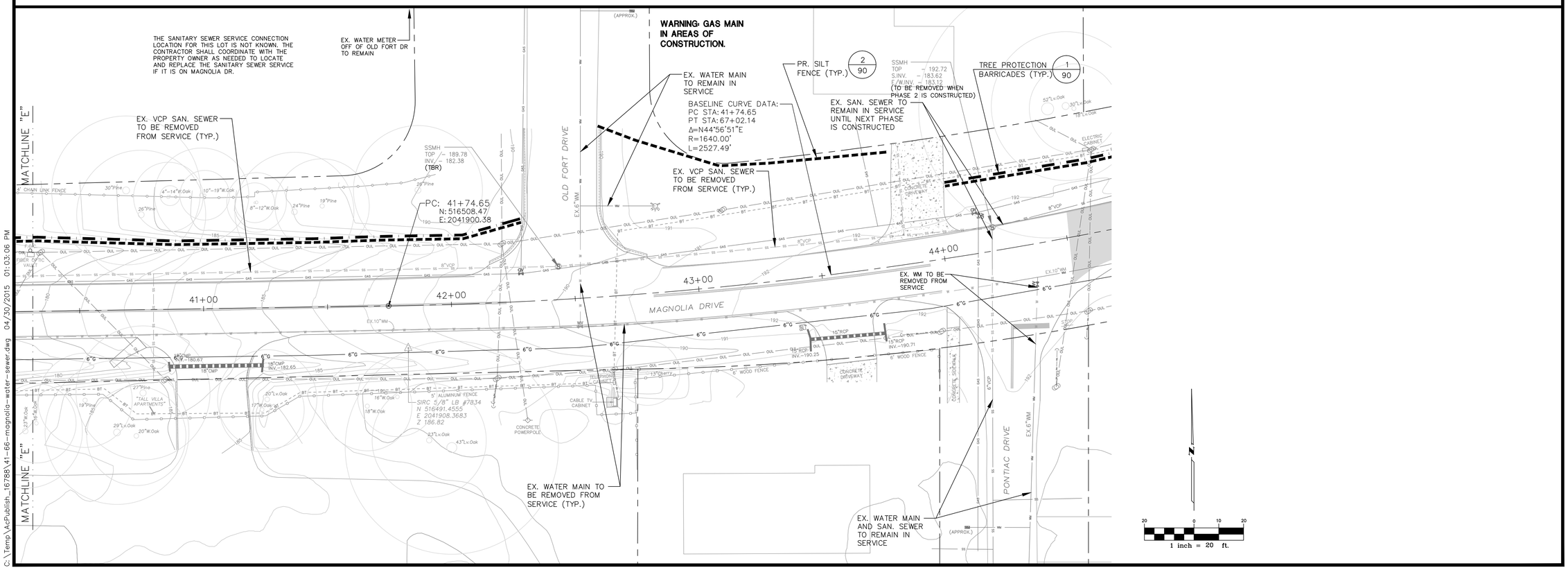
TASK
EX. CONDITIONS, WATER AND SEWER DEMO AND EROSION CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities

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. 100038929 / 100041868
DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 43

W. K. JOHNSON ENGINEERING, INC. NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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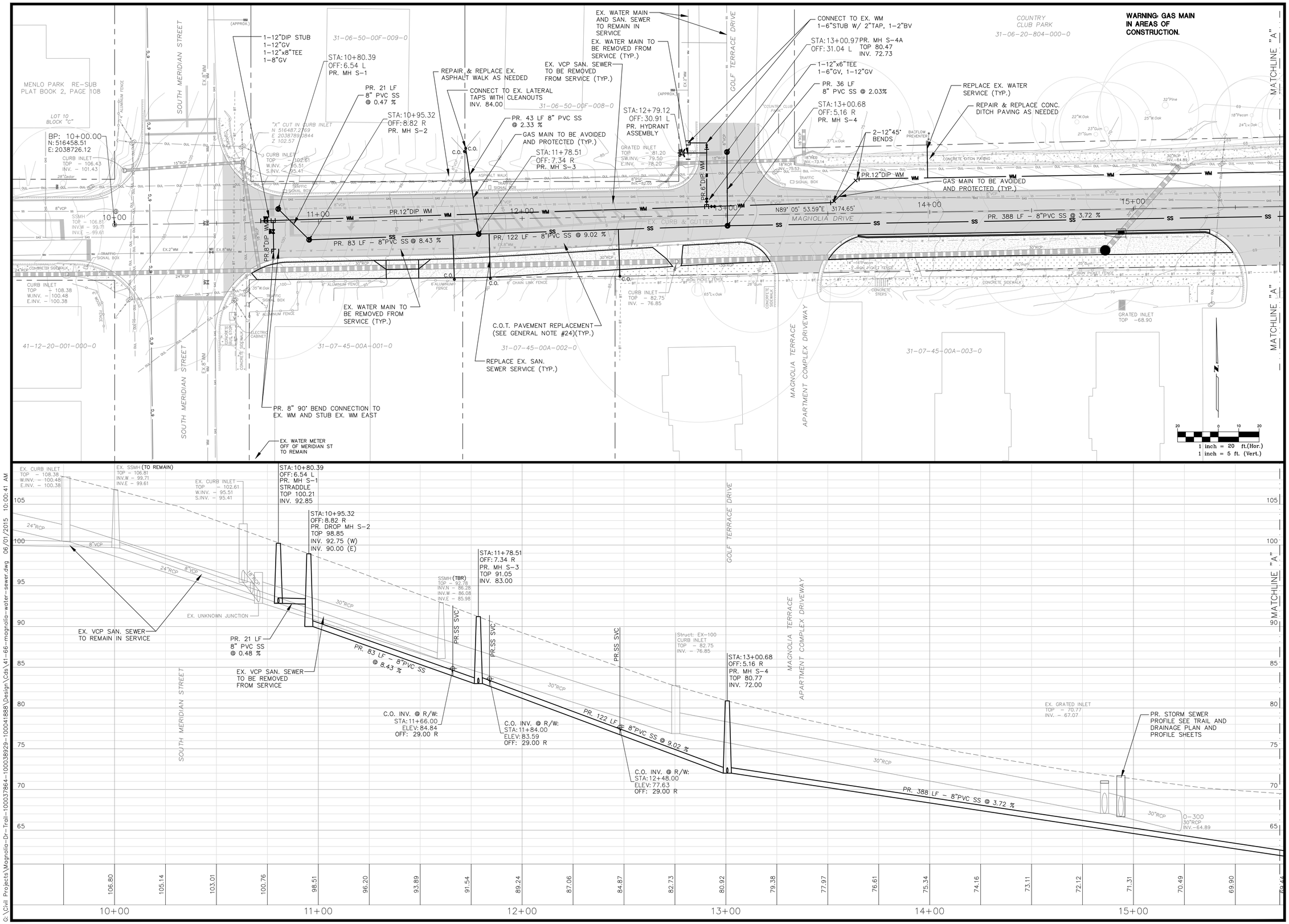
TASK
EX. CONDITIONS, WATER AND SEWER DEMO AND EROSION CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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. 100038929 100041888
DRAWN MR
DESIGNED MR
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QC GB
SHEET 51

STATE OF FLORIDA PROFESSIONAL ENGINEER WILLIAM K. JOHNSON NO. 41040

ORIGINAL JUNE 1, 2015
REVISIONS:
1
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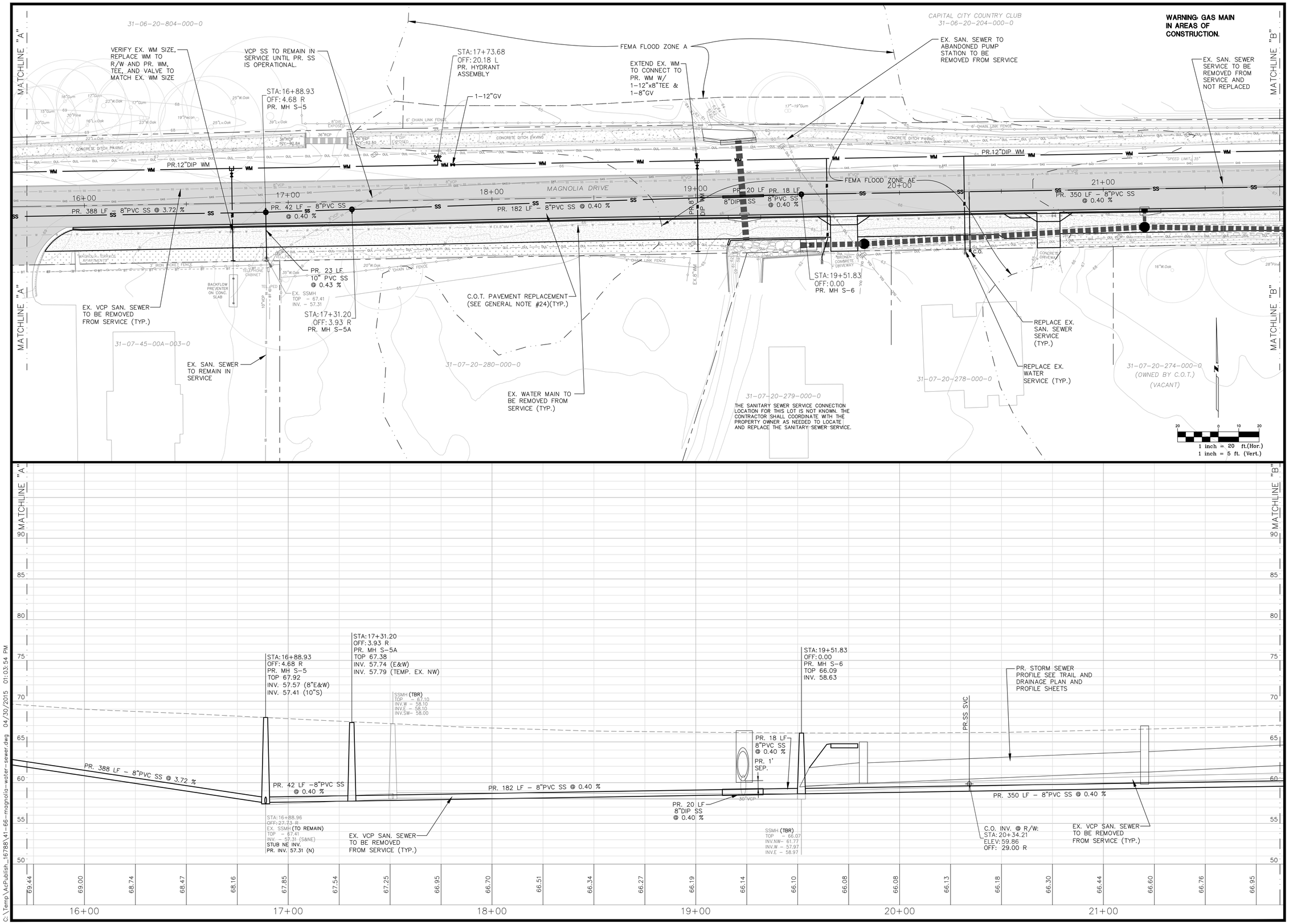
5

TASK
WATER AND SEWER PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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. 100038929 100041868
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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 52

W.K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
1
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TASK
WATER AND SEWER PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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LEON FLORIDA'S CAPITAL COUNTY

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2639 N. Monroe St.
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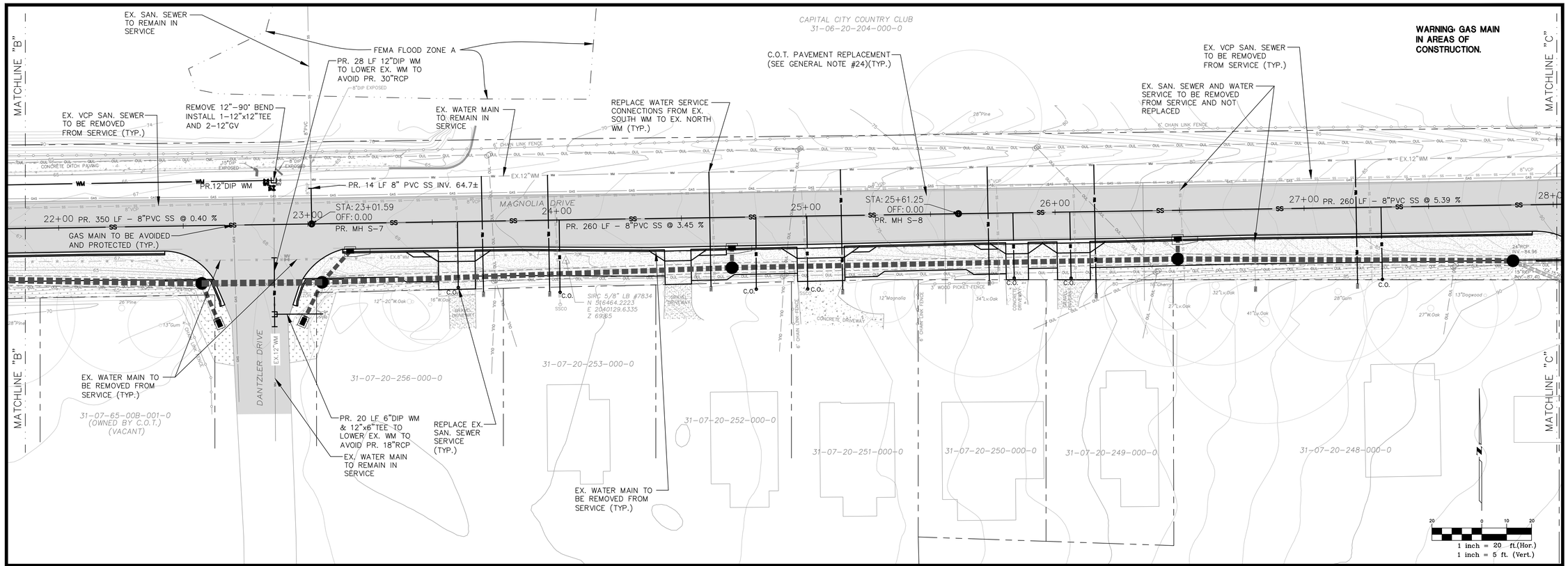

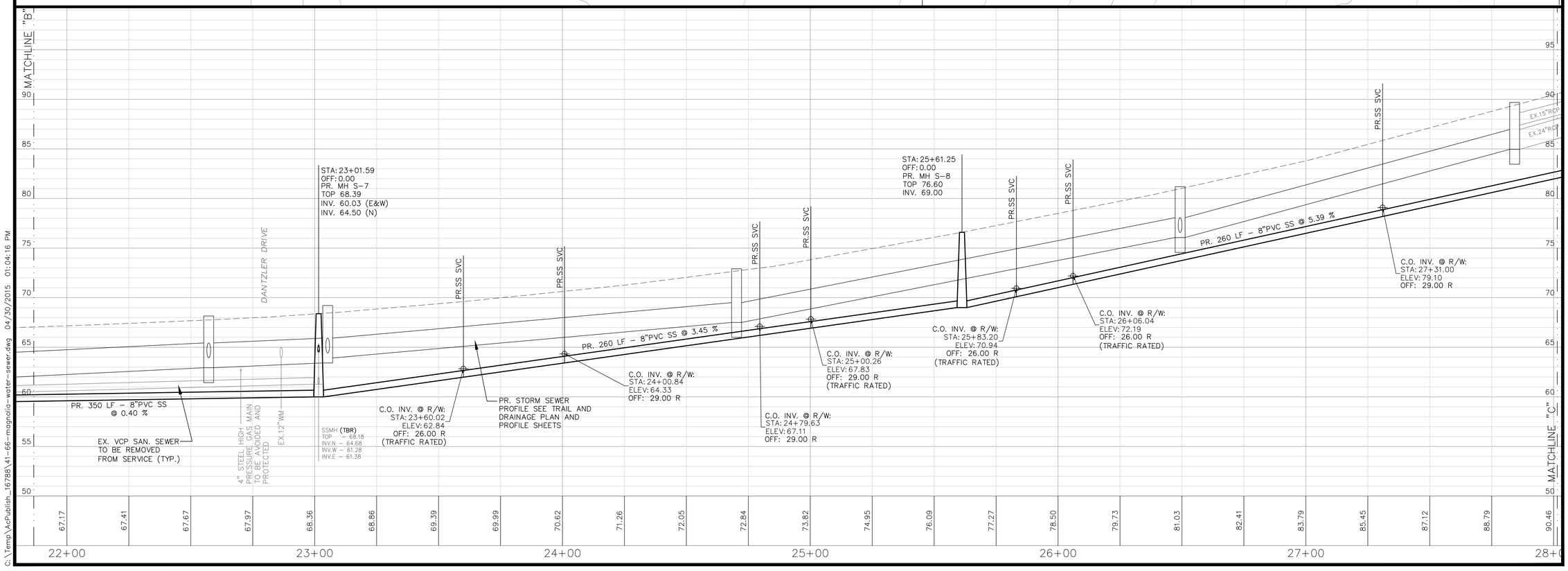

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 53

W. K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
1
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TASK
WATER AND SEWER PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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FLORIDA'S CAPITAL COUNTY

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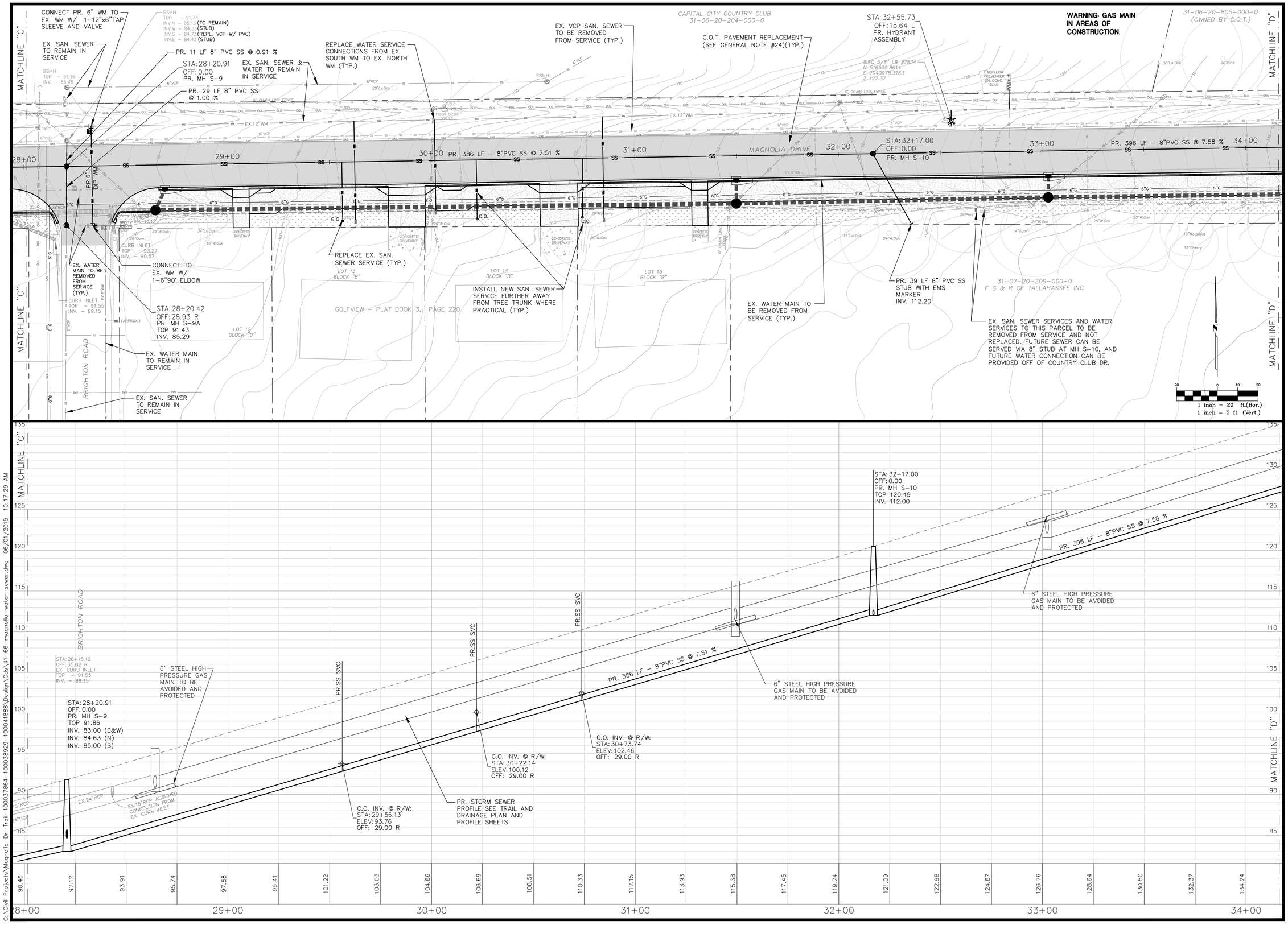

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CHECKED WKJ
QC GB
SHEET 54

W.K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL JUNE 1, 2015
REVISIONS:
1
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TASK
WATER AND SEWER PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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LEON FLORIDA'S CAPITAL COUNTY

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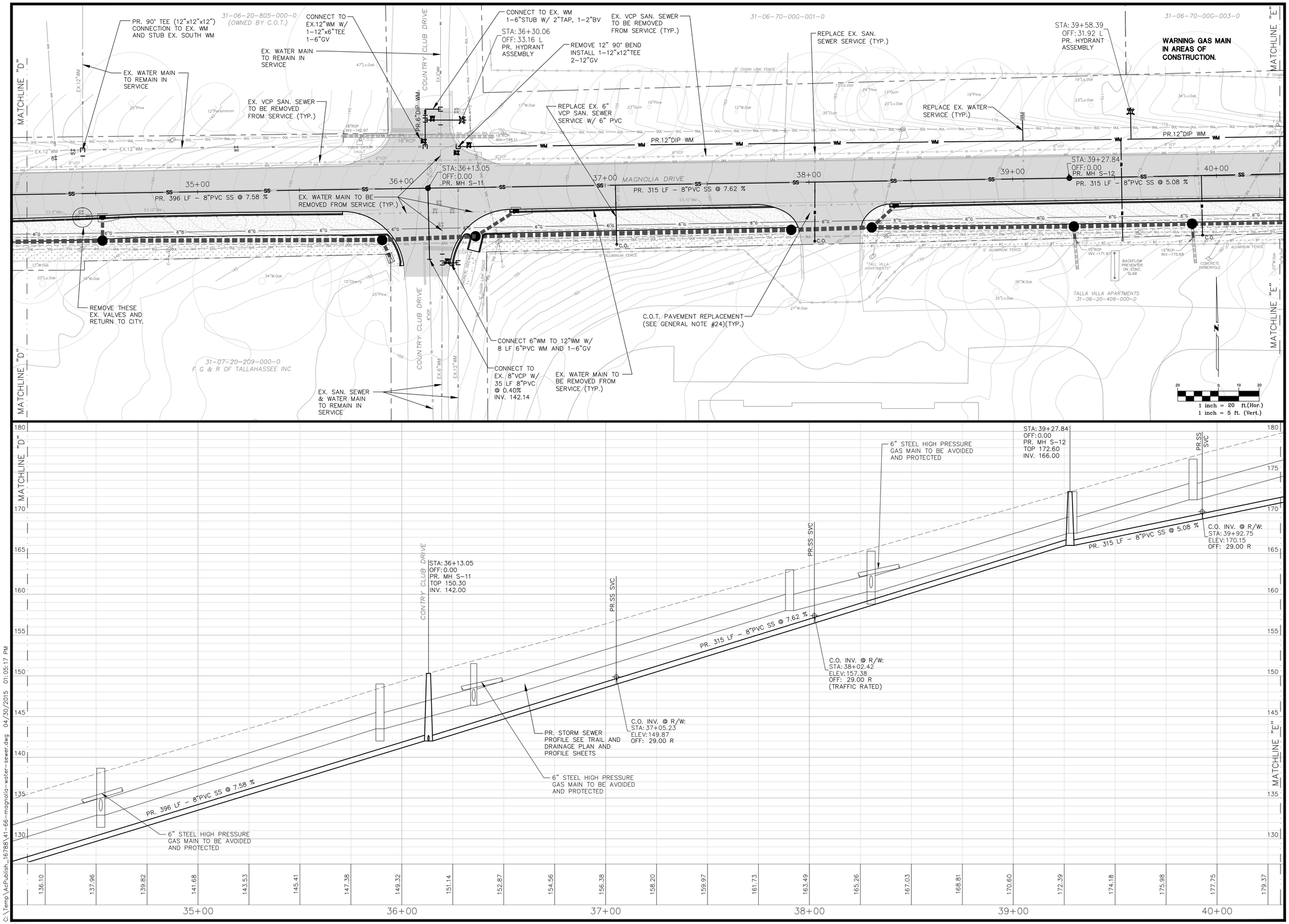

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET 55

W. K. JOHNSON NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS: 1 2 3 4 5

TASK
WATER AND SEWER PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
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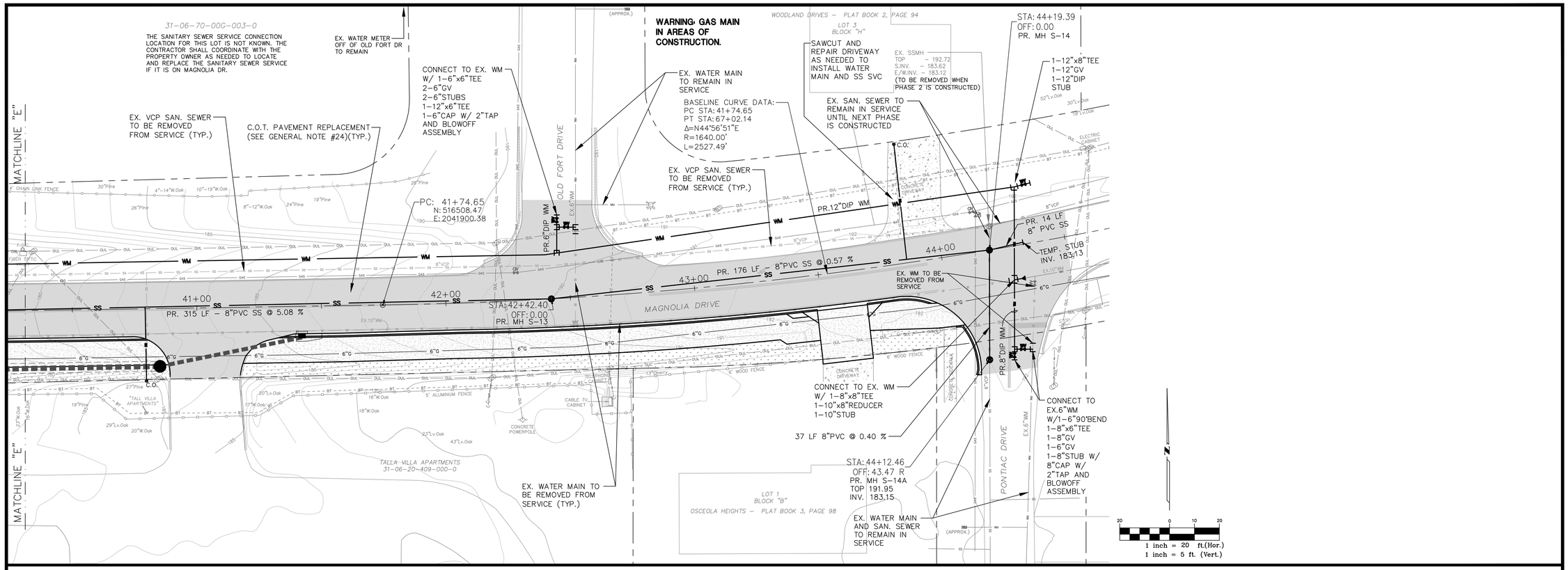

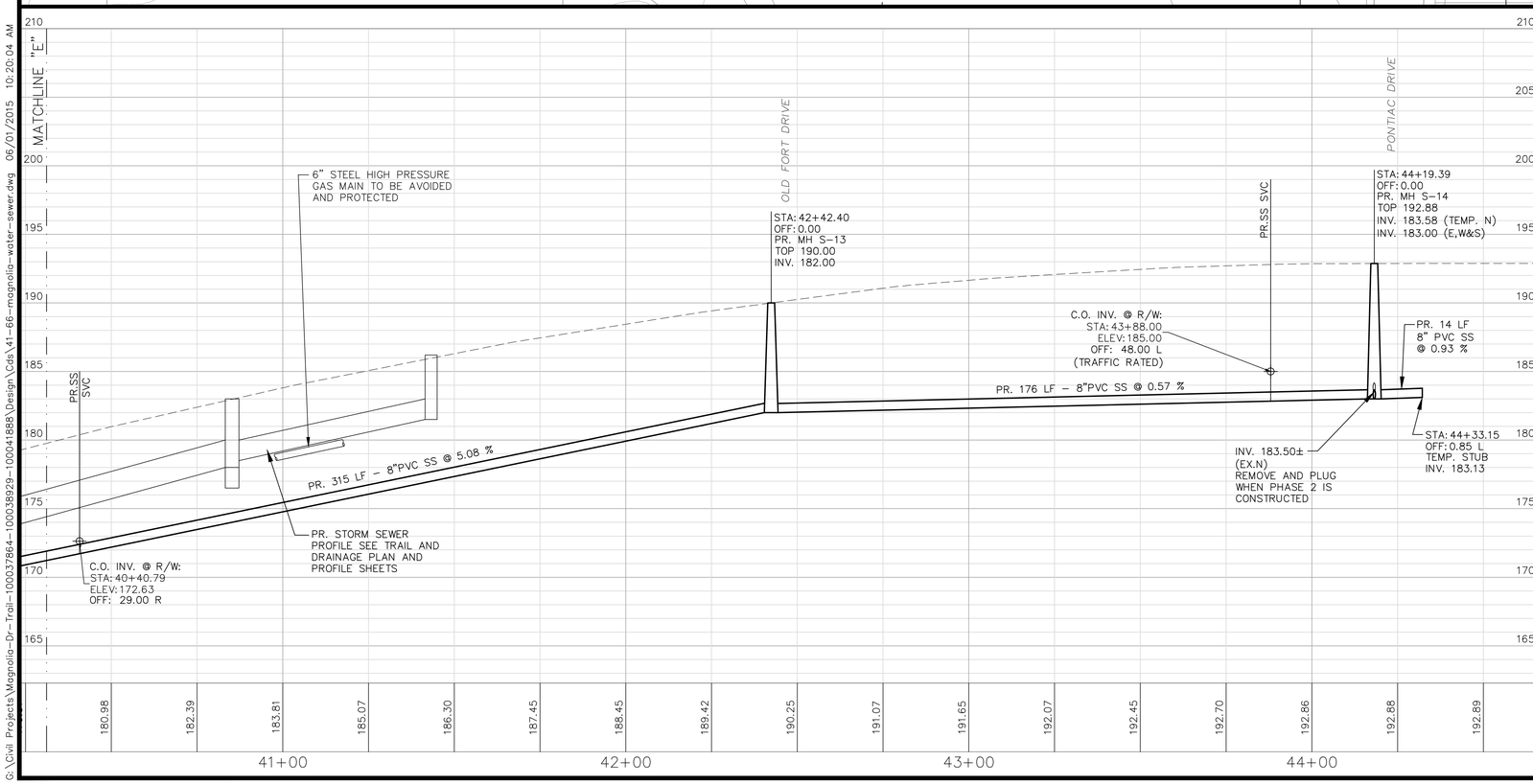

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JOB NO. 100038929 100041888
DRAWN MR
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QC GB
SHEET 56

W.K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL JUNE 1, 2015
REVISIONS:
1
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TASK
WATER AND SEWER PLAN AND PROFILE

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
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Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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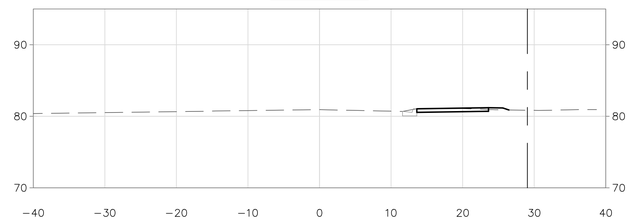
1 inch = 10 ft.

13+00.00



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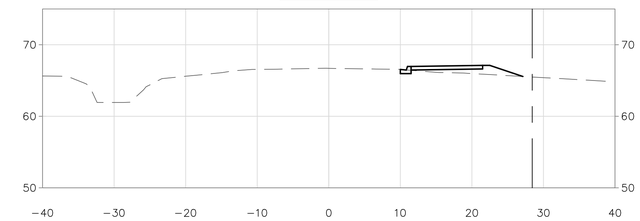
18+00.00



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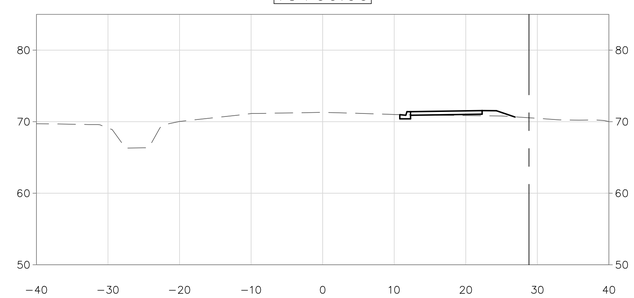

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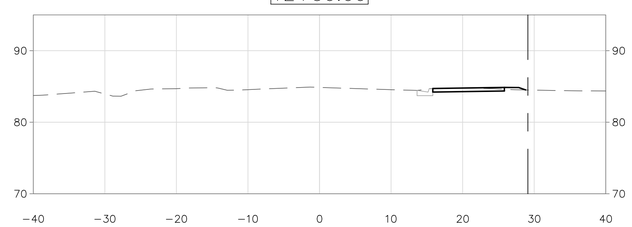

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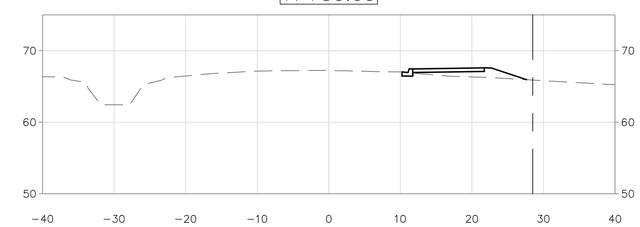

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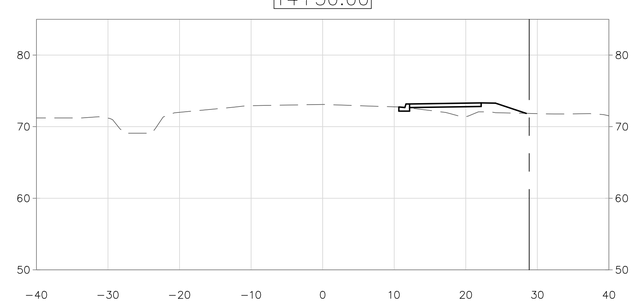

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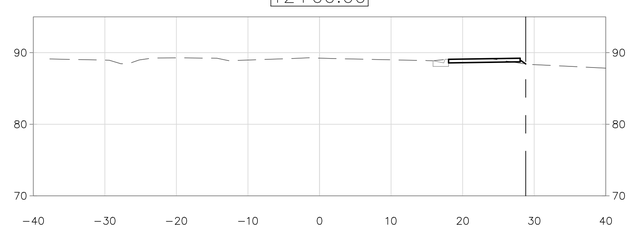

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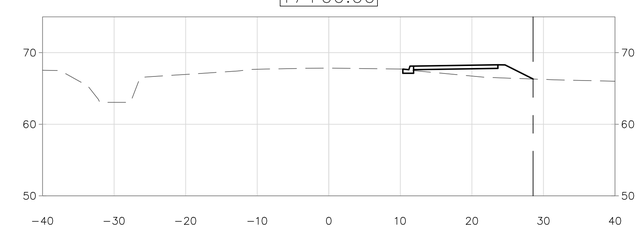

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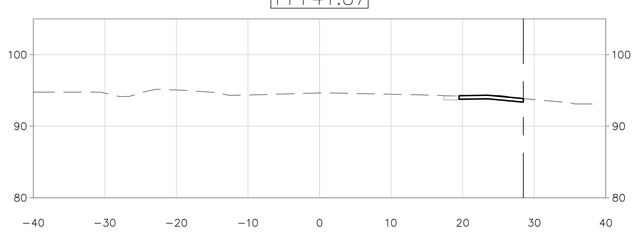

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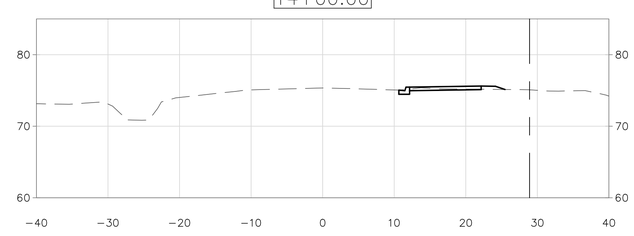

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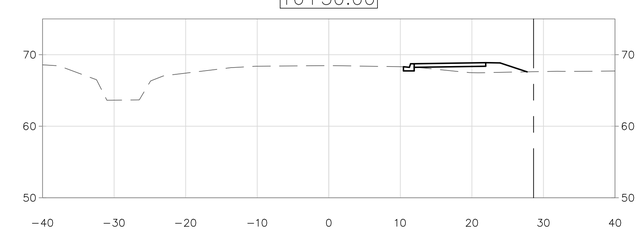

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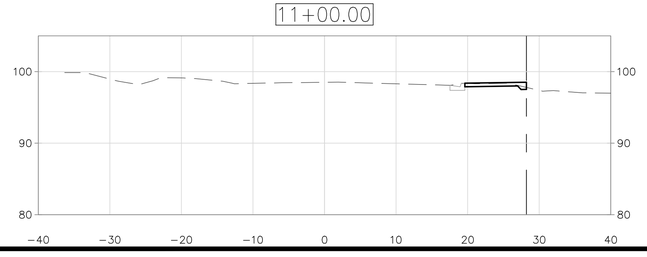

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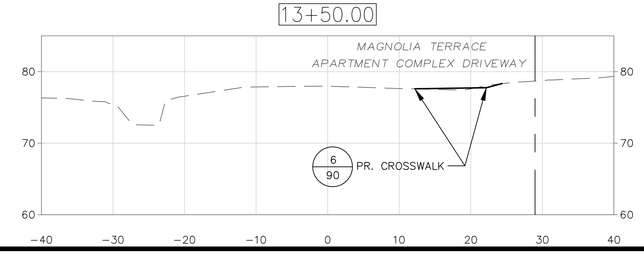

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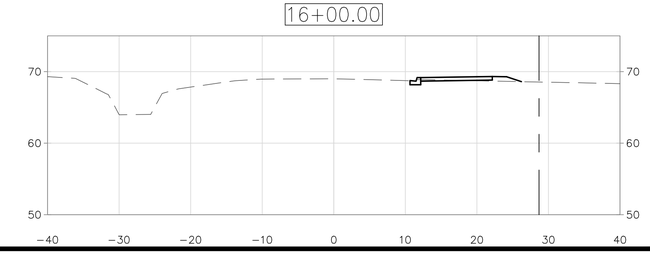

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CHECKED WKJ
QC GB
SHEET 71

WILLIAM K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
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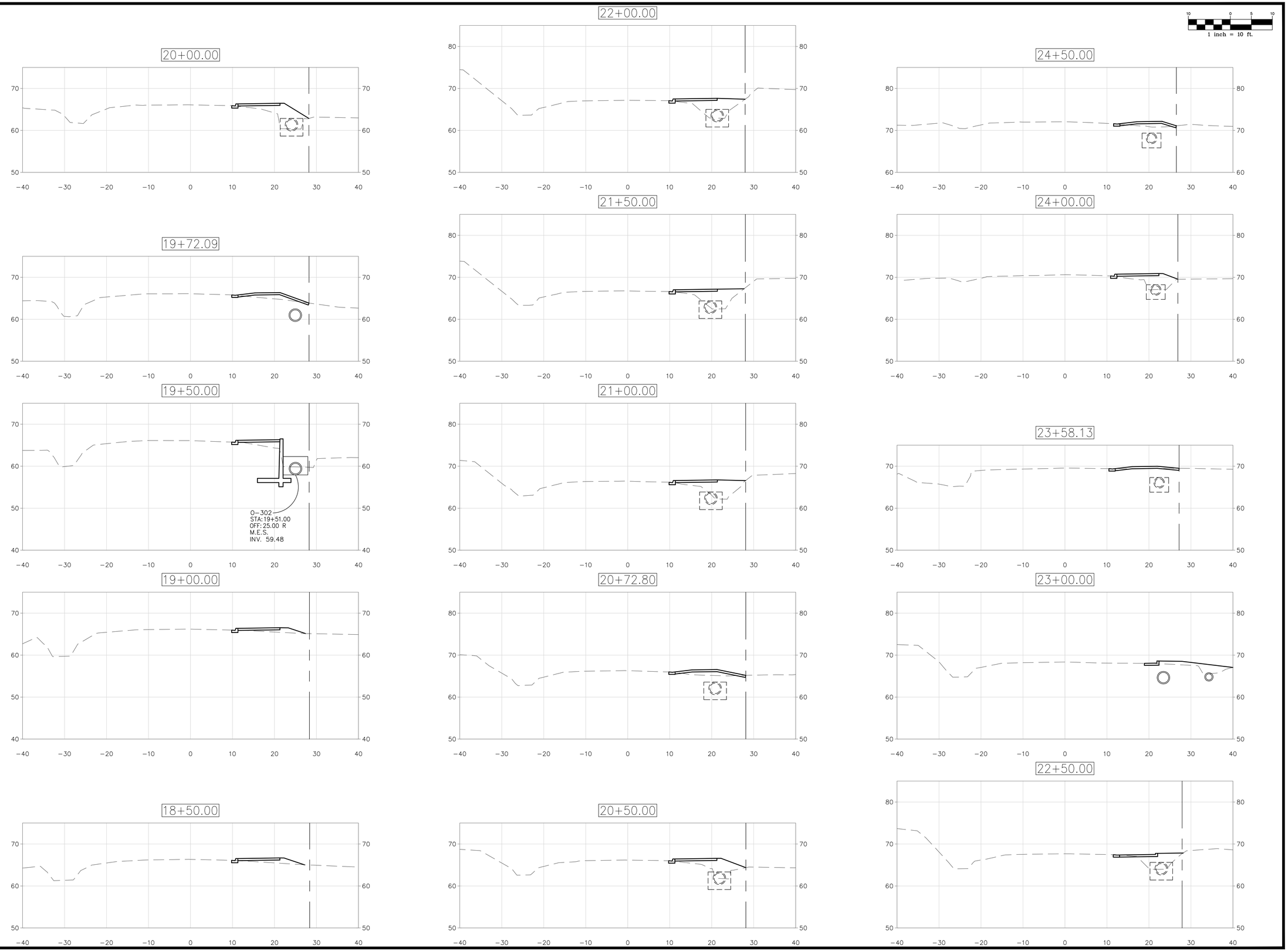
TASK
TRAIL AND DRAINAGE CROSS SECTIONS

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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

1 inch = 10 ft.



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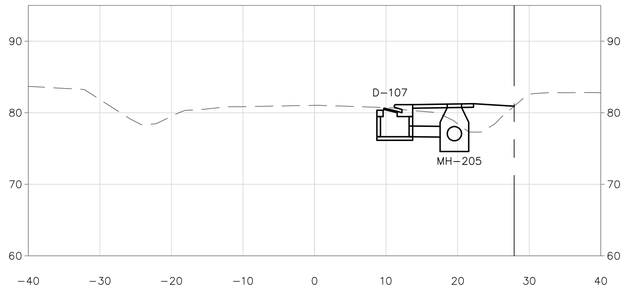
26+50.00



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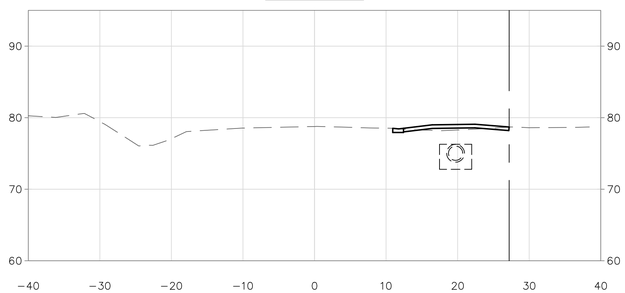

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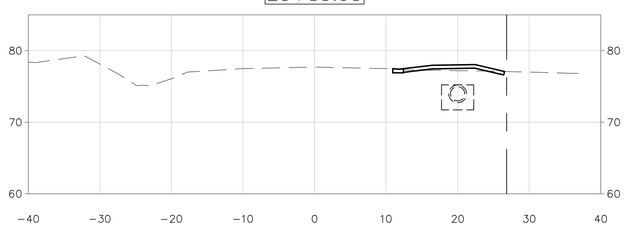

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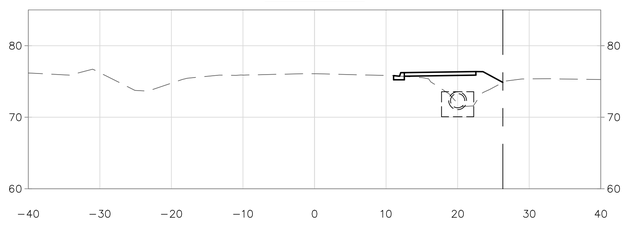

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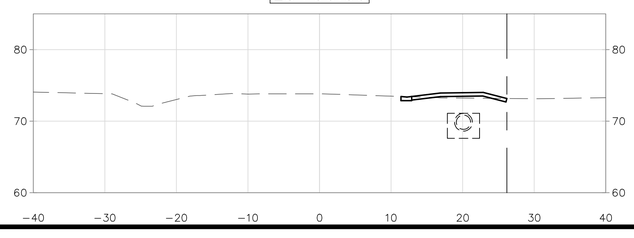

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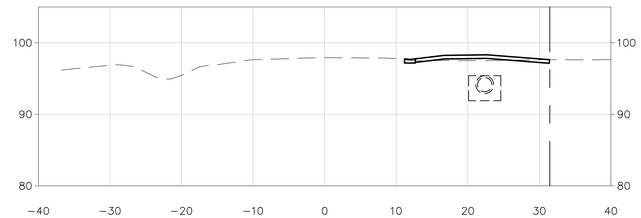

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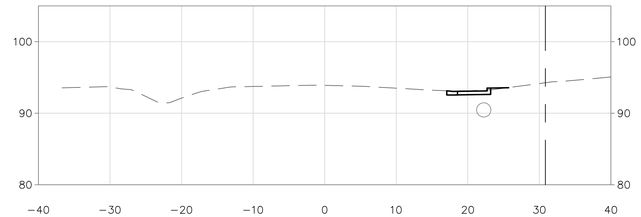

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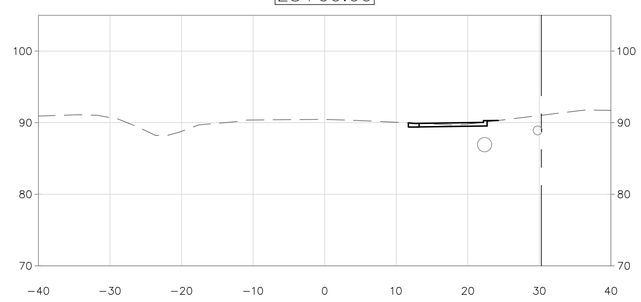

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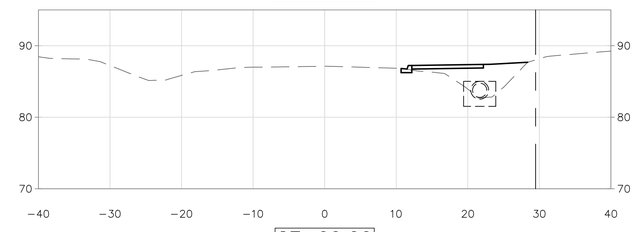

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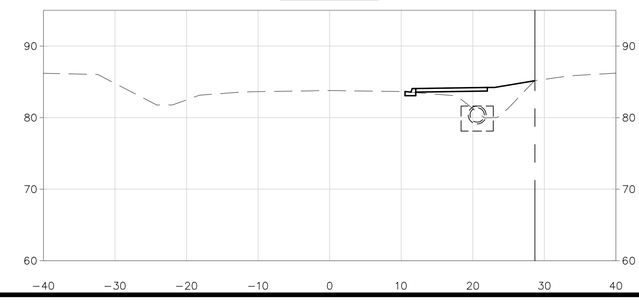

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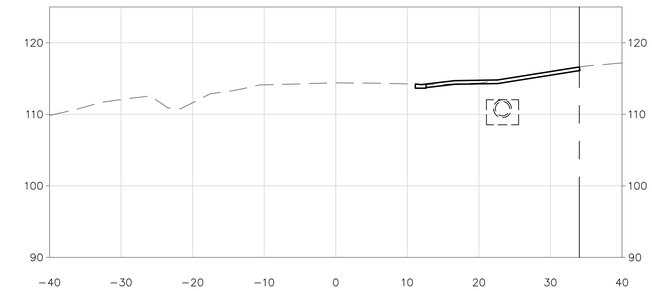

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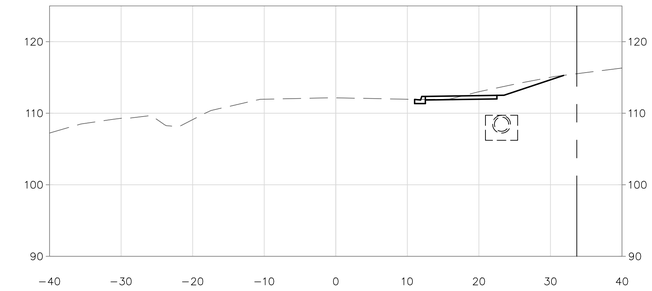

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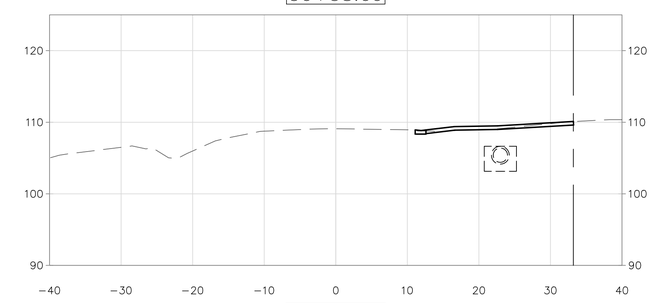

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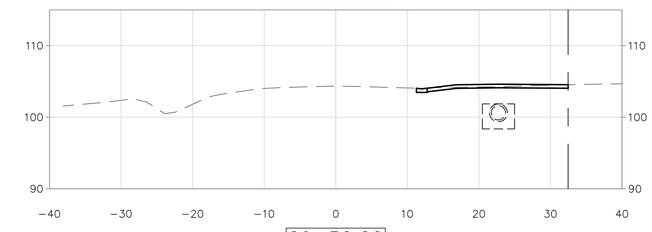

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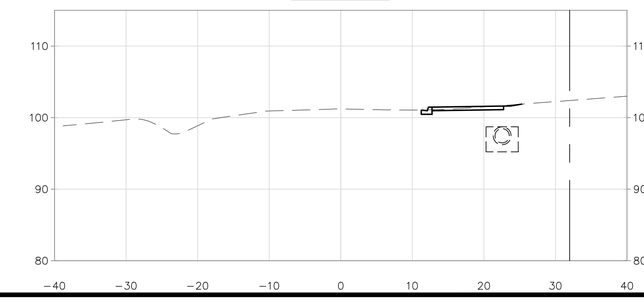

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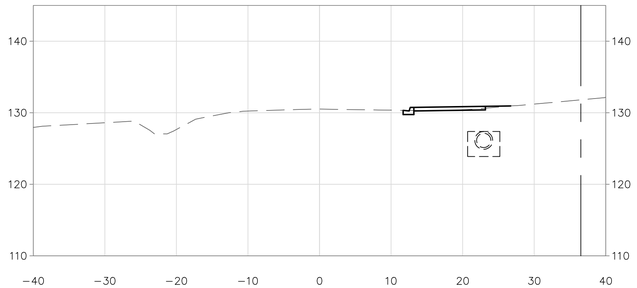

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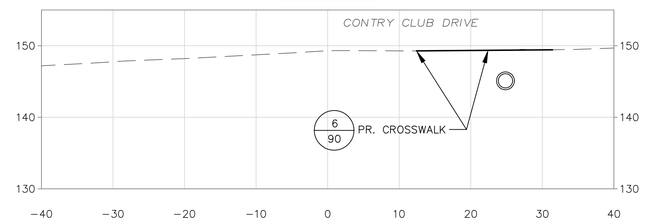

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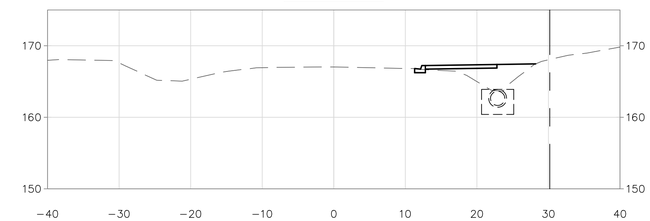

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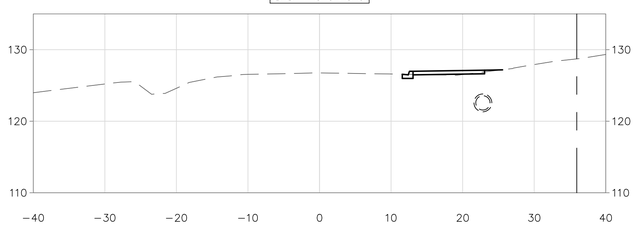

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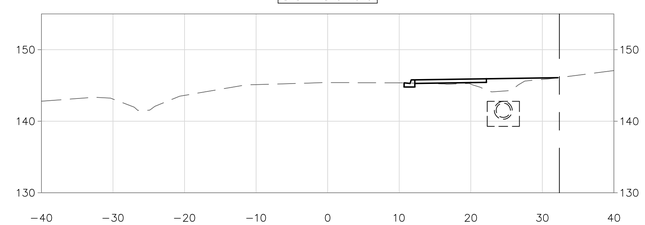

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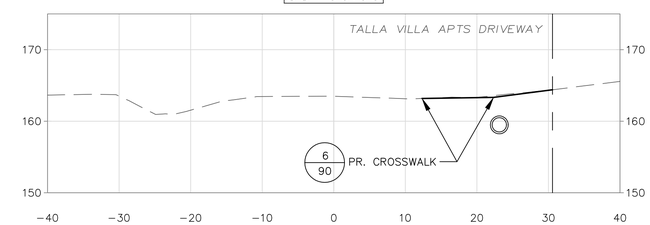

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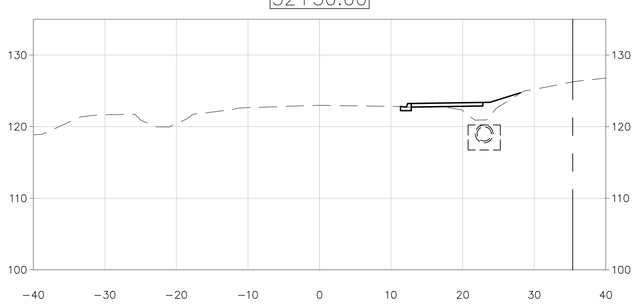

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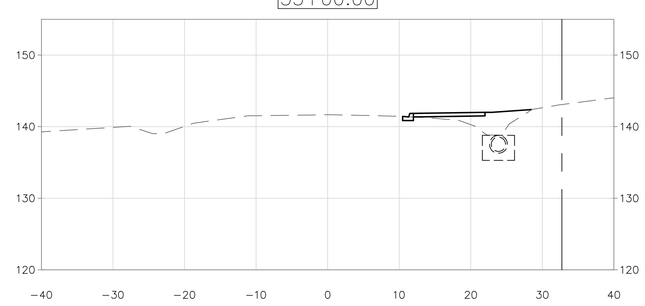

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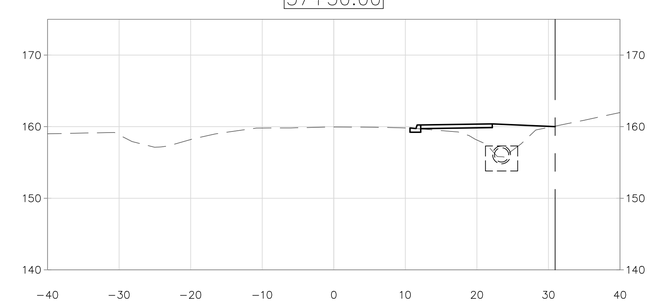

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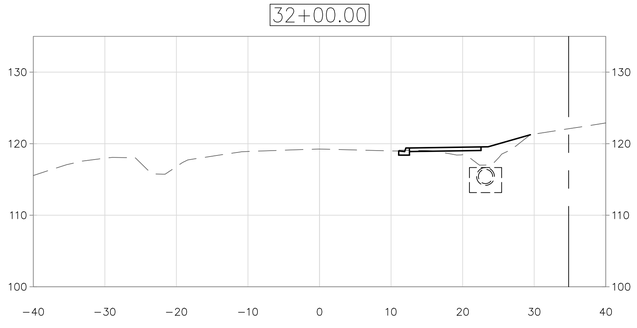

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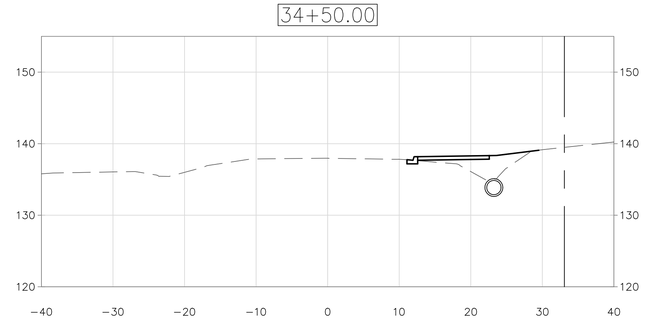

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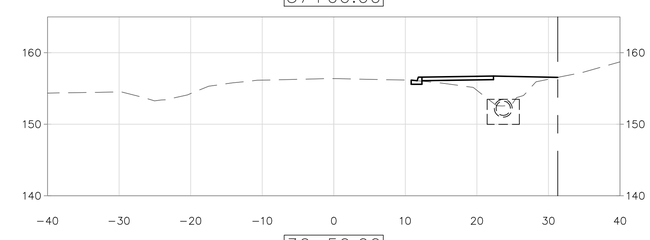

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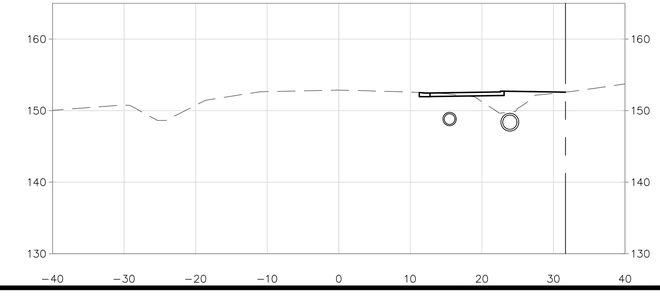

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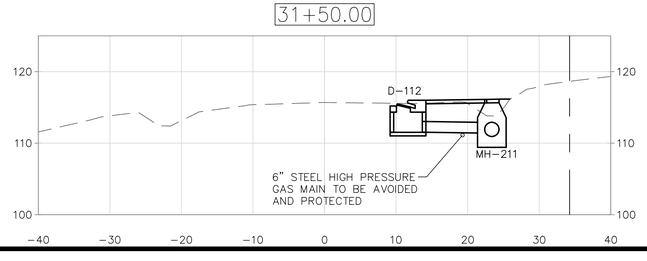

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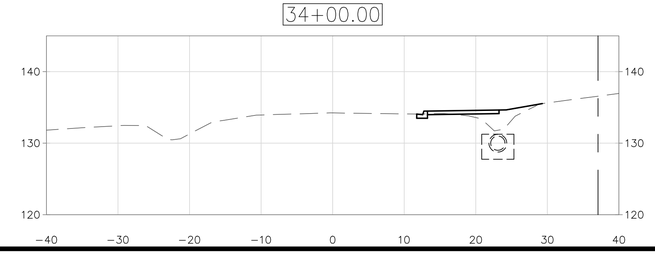

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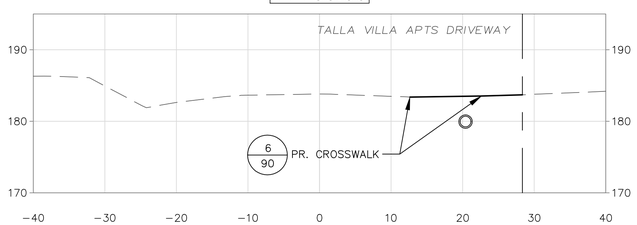

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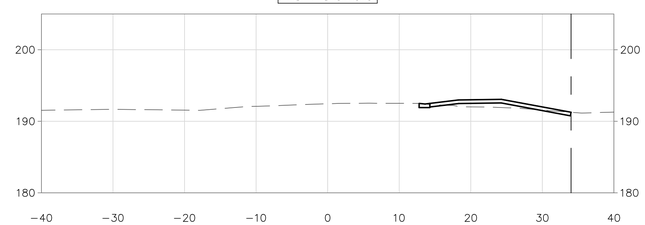

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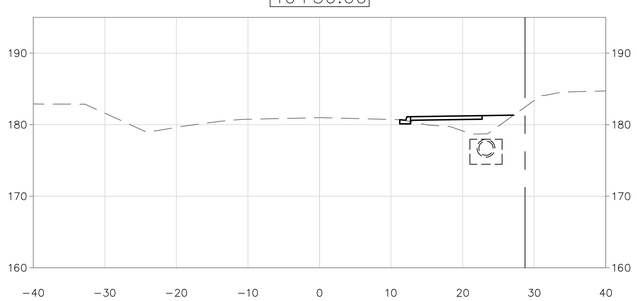

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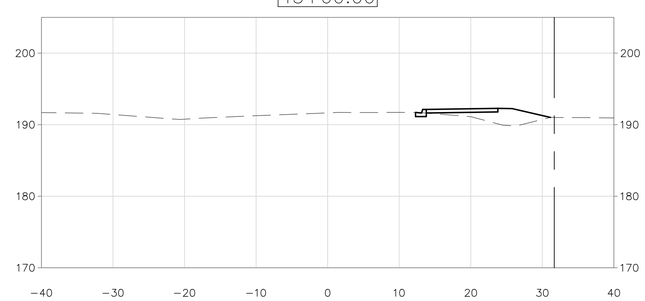

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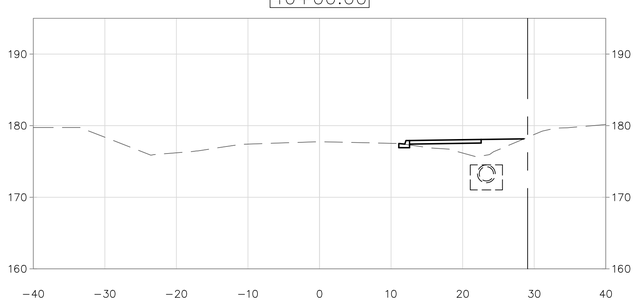

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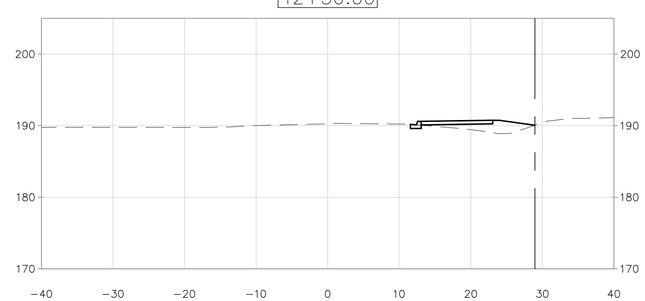

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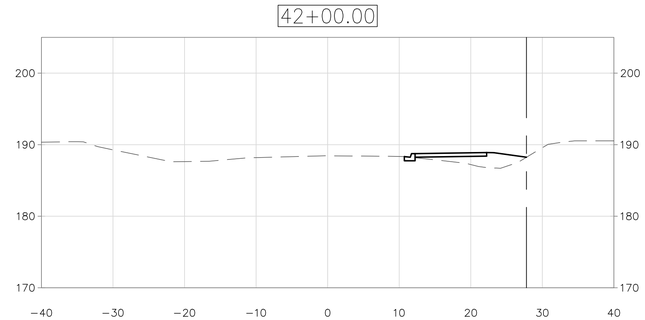

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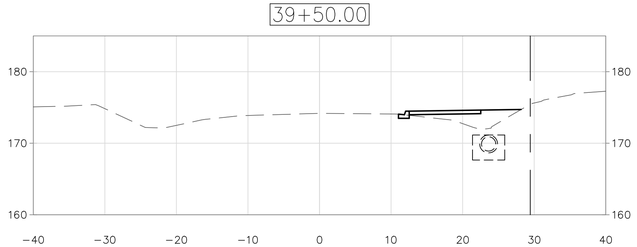

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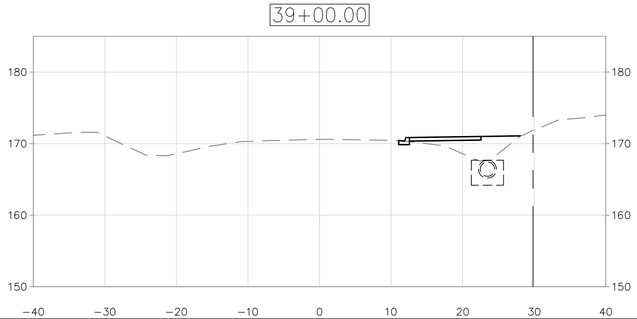

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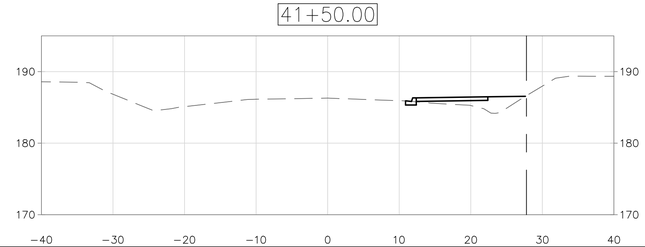

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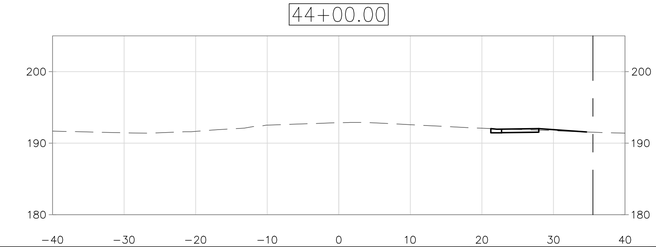

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JOB NO. 100038929 100041888
DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 75

WILLIAM K. JOHNSON LICENSE NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS:
1
2
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4
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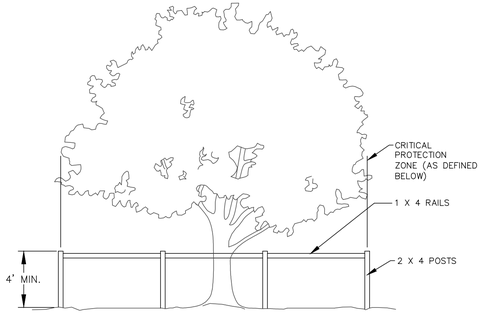
TASK
TRAIL AND DRAINAGE CROSS SECTIONS

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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

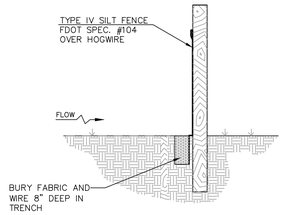


NOTES:

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.

1/90 TREE PROTECTION BARRICADE
NTS



MAINTENANCE NOTES:

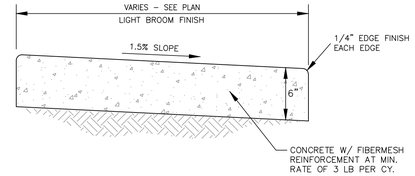
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
4. 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 SEEDED.
5. NO TRENCHING SHALL OCCUR WITHIN THE CRITICAL PROTECTION ZONE OF ANY PROTECTED OR DESIRABLE TREE.

SHEET FLOW APPLICATION: SILT FENCE

GENERAL NOTES:

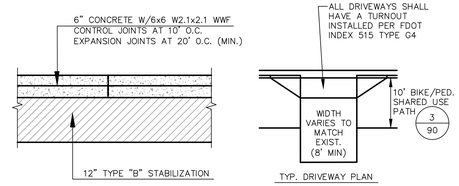
1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES. HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED AS DESCRIBED IN ITEM NO. 8 BELOW.
3. 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.
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. TRENCHING SHALL NOT BE ALLOWED WITHIN THE CPZ OF TREES TO REMAIN.
5. 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, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THEN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
6. 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.
7. 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.
8. 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.
9. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
10. 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.
11. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

2/90 STAKED TYPE IV SILT FENCE
NTS



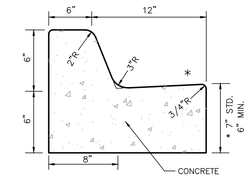
NOTES:
CONTRACTION JOINT SHALL DIVIDE SIDEWALK INTO SQUARE PANELS. EXPANSION JOINT REQUIREMENTS ARE 40'-0" O.C. MAX. AND AT EVERY SIDEWALK INTERSECTION.

3/90 6" CONC. SIDEWALK / TRAIL
NTS



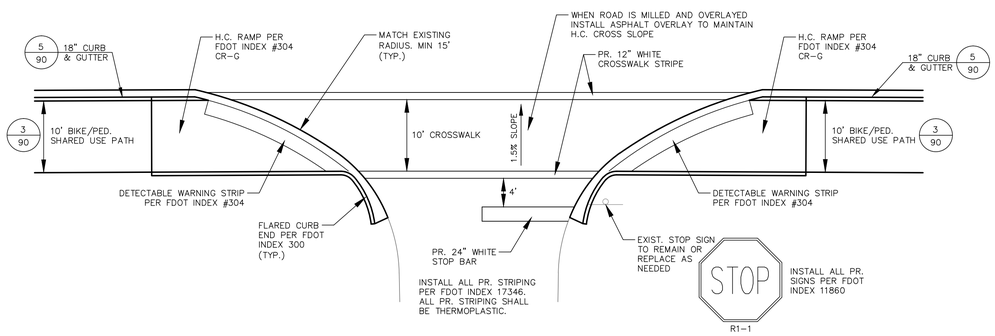
TYP. DRIVEWAY PLAN

4/90 6" CONC. DRIVEWAY PAVEMENT
NTS

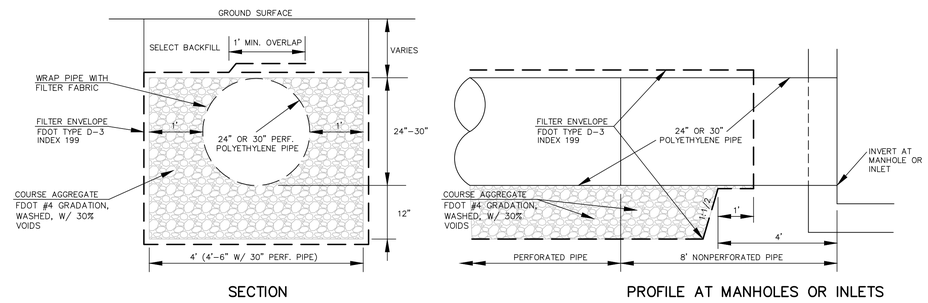


* NOTE:
WHEN USED ON HIGH SIDE OF ROADWAYS WITH ADVERSE SLOPE, THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT. THE THICKNESS OF THE LIP SHALL BE 6" UNLESS OTHERWISE SHOWN ON PLANS.

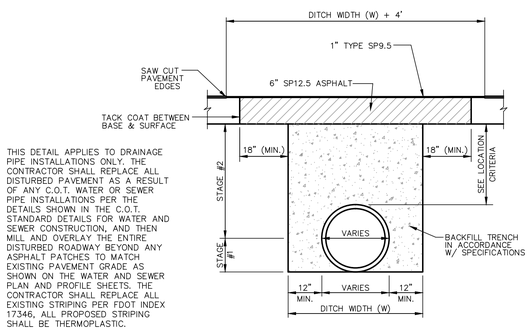
5/90 18" CURB & GUTTER
NTS



6/90 TYPICAL CROSSWALK AND HC RAMP DETAIL
NTS



7/90 EXFILTRATION BEDDING
NTS



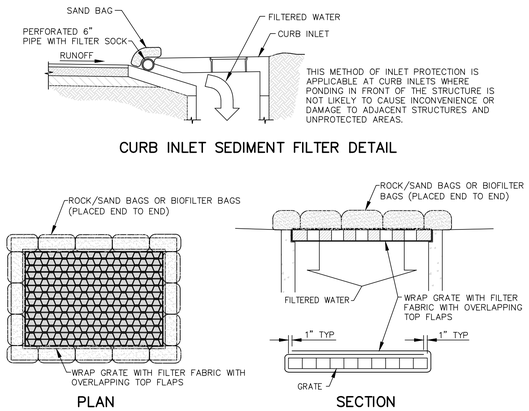
THIS DETAIL APPLIES TO DRAINAGE PIPE INSTALLATIONS ONLY. THE CONTRACTOR SHALL REPLACE ALL DISTURBED PAVEMENT AS A RESULT OF ANY C.O.T. WATER OR SEWER PIPE INSTALLATIONS PER THE DETAILS SHOWN IN THE C.O.T. STANDARD DETAILS FOR WATER AND SEWER CONSTRUCTION, AND THEN MILL AND OVERLAY THE ENTIRE DISTURBED ROADWAY BEYOND ANY ASPHALT PATCHES TO MATCH EXISTING PAVEMENT GRADE AS SHOWN ON THE WATER AND SEWER PLAN AND PROFILE SHEETS. THE CONTRACTOR SHALL REPLACE ALL EXISTING STRIPING PER FDOT INDEX 17346, ALL PROPOSED STRIPING SHALL BE THERMOPLASTIC.

DENSITY PROCEDURES:
THE BACKFILL FOR THE FIRST AND SECOND STAGES SHALL BE PLACED IN 6" LAYERS (COMPACTED THICKNESS) AND SHALL BE COMPACTED TO 100% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.

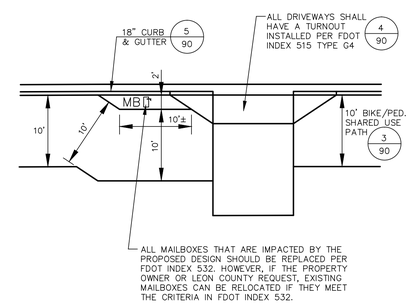
STAGE #1
THE CONTRACTOR SHALL PROVIDE ADEQUATE COMPACTED FILL BENEATH THE HAUNCHES OF THE PIPE, USING MECHANICAL TAMPS SUITABLE FOR THIS PURPOSE. THIS COMPACTION APPLIES TO THE MATERIAL PLACED BENEATH THE HAUNCHES OF THE PIPE AND ABOVE ANY BEDDING REQUIRED.

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.

9/90 PAVEMENT REPLACEMENT FOR DRAINAGE PIPE INSTALLATION & PIPE REMOVAL
NTS



11/90 INLET PROTECTION
NTS



12/90 MAILBOX RELOCATION
NTS

JOB NO. 100038929 100041888
DRAWN MR
DESIGNED MR
CHECKED WKJ
QC GB
SHEET 90

WILLIAM K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL APRIL 29, 2015
REVISIONS: 1 2 3 4 5

TASK
CONSTRUCTION DETAILS

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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

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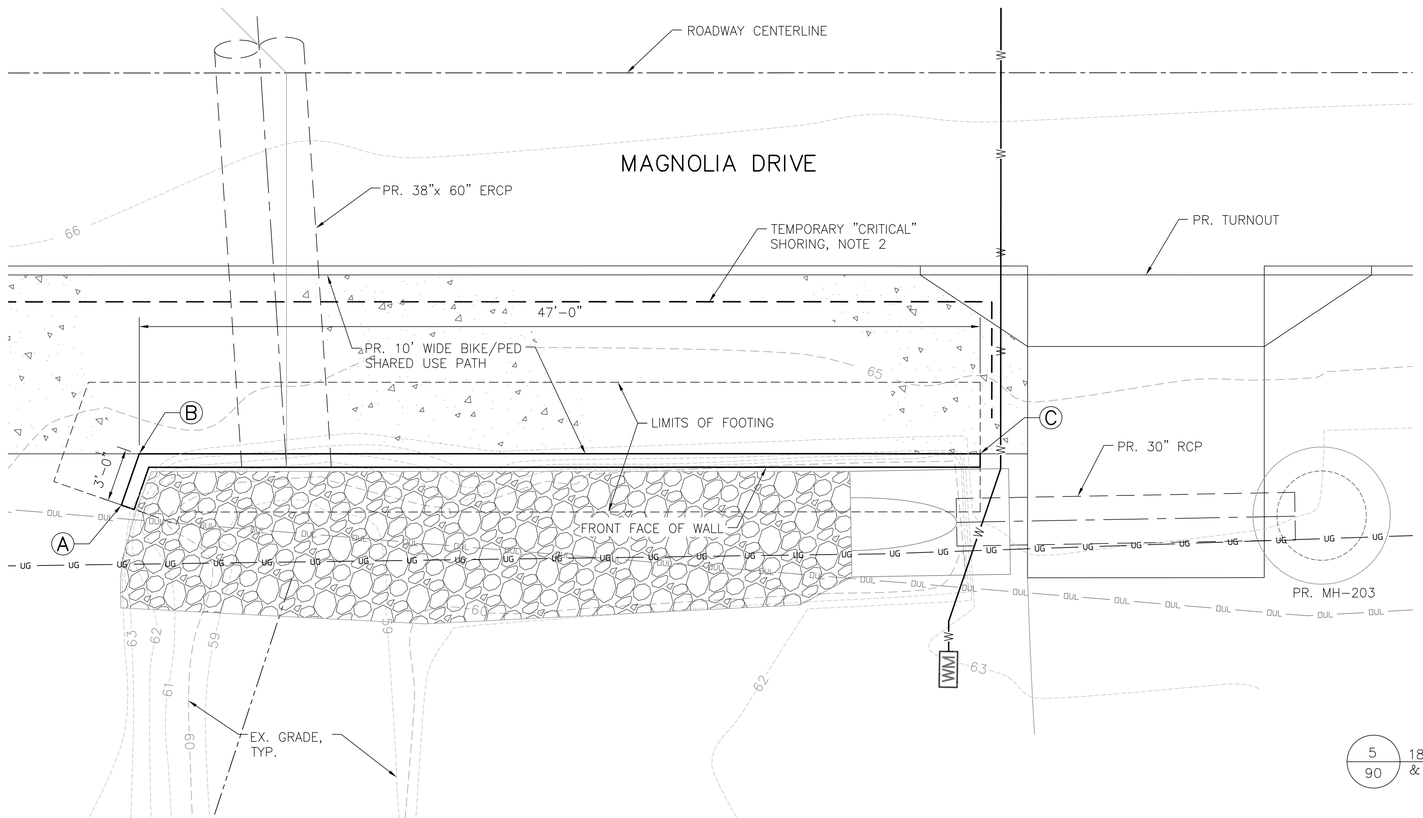
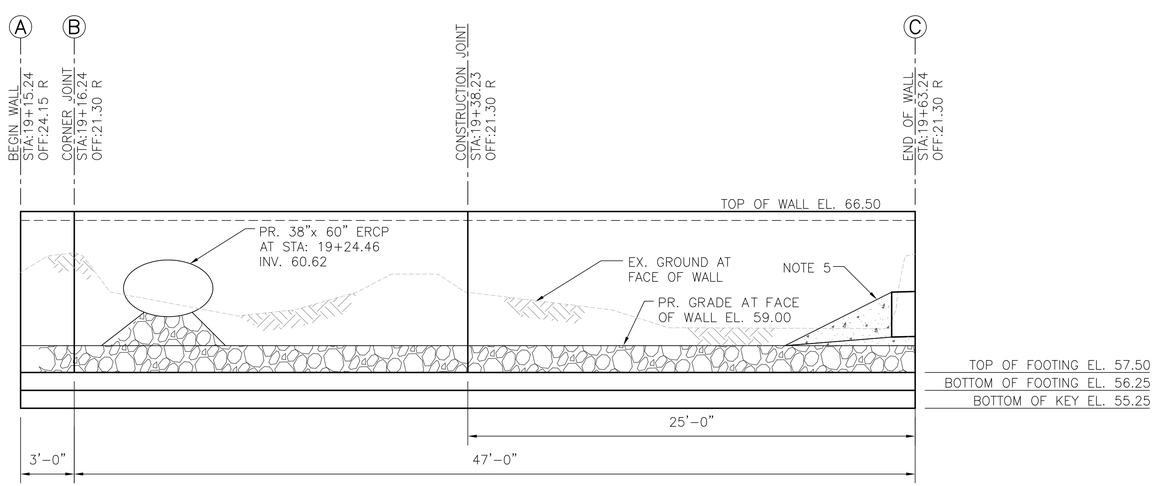


PLAN

SCALE: 1/4" = 1'-0"



ELEVATION

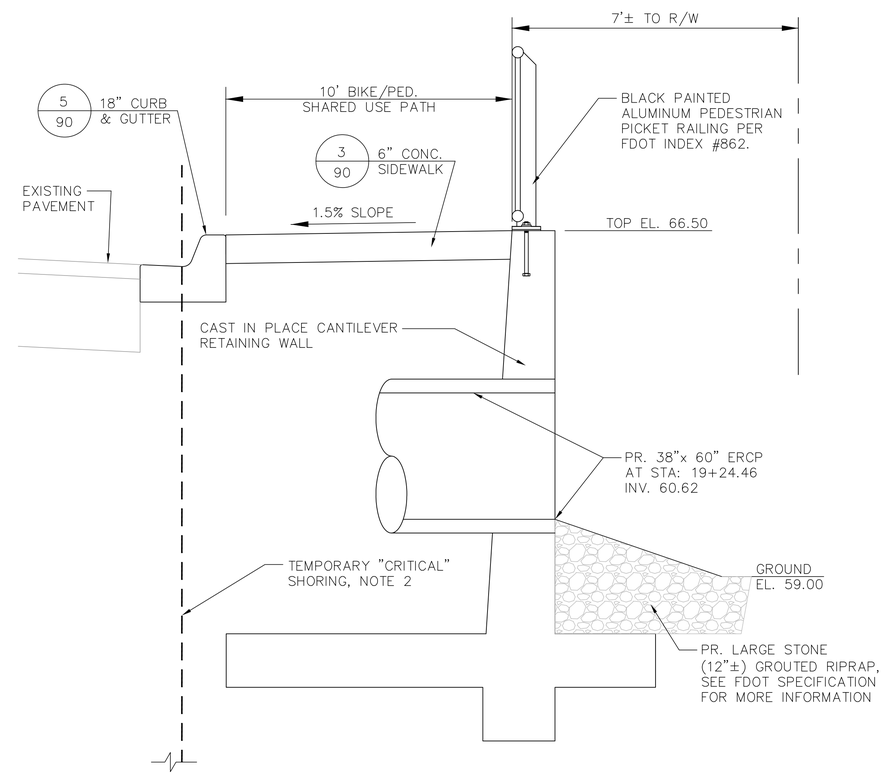
SCALE: 1/4" = 1'-0"

C.I.P. WALL – SUMMARY OF QUANTITIES			
PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
0400 4 11	38	CY	CONCRETE CLASS IV, RETAINING WALLS
0415 1 3	3278	LB	REINFORCING STEEL – RETAINING WALL
515 2 3BB	47	LF	PEDESTRIAN, BICYCLE RAILING, ALUMINUM ONLY, 42" (TYPE 1)

1/4 inch = 1 ft.

NOTES:

1. STATIONING AND OFFSETS FOR RETAINING WALL (SHOWN IN ELEVATION VIEW) ARE TO BACK OF WALL.
2. PROVIDE TEMPORARY "CRITICAL" SHORING AS NECESSARY TO CONSTRUCT WALL. SHORING SHALL CONFORM TO FDOT REQUIREMENTS.
3. PLACE BACKFILL ON FRONT FACE SIDE OF WALL BEFORE BACKFILLING BACK OF WALL.
4. ROUTE ALL PIPE AND CONDUIT AROUND THE TOE OF THE FOOTING. DO NOT ROUTE PIPE OR CONDUIT BELOW FOOTING.
5. MITERED END SECTION AT 2:1 SLOPE PER FDOT INDEX 272.
6. ALL MATERIAL USED FOR BACKFILL SHALL BE FREE OF ORGANIC MATERIAL, HAVE A FRICTION ANGLE ϕ = 30 DEG AND A UNIT WEIGHT γ OF 115 PCF. ANY MATERIAL NOT MEETING THESE REQUIREMENTS BUT IN CONFORMANCE WITH FDOT SPECIFICATIONS SHALL BE APPROVED BY THE EOR PRIOR TO PLACEMENT.
7. GEOTECHNICAL CRITERIA FOR THIS WALL WAS DEFINED PER THE GEOTECHNICAL EXPLORATION REPORT ENTITLED: REPORT OF GEOTECHNICAL INVESTIGATION, MAGNOLIA DRIVE RETAINING WALL, LEON COUNTY, FLORIDA. THE REPORT WAS PREPARED BY ENVIRONMENTAL AND GEOTECHNICAL SPECIALISTS, INC., 104 NORTH MAGNOLIA DRIVE, TALLAHASSEE, FLORIDA, 32301, 850-386-1253.
8. CONTRACTOR SHALL USE TEMPORARY WELL POINTS AND/OR PUMPS WITHIN EXCAVATIONS TO CONTROL GROUNDWATER LEVELS AS REQUIRED. GROUNDWATER SHALL BE MAINTAINED A MINIMUM OF 2 FEET BELOW THE EXCAVATION BOTTOM DURING CONSTRUCTION.



PR. RETAINING WALL W/ RAILING AT STA. 19+24.5±

NTS

JOB NO. 100038929
DRAWN EJR
DESIGNED CRD
CHECKED CRD/MR
QC SJS
SHEET S-1

CHRISTOPHER R. DIXON LICENSE NO. 68728 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL JUNE 3, 2015
REVISIONS:
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TASK STRUCTURAL PLAN, ELEVATION AND SECTIONS

PROJECT Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT City of Tallahassee Your Own Utilities

ATKINS
2639 N. Monroe St.
Building C
Tallahassee, Florida 32303
850.575.9900
FBPR Certificate of Authorization No. 24

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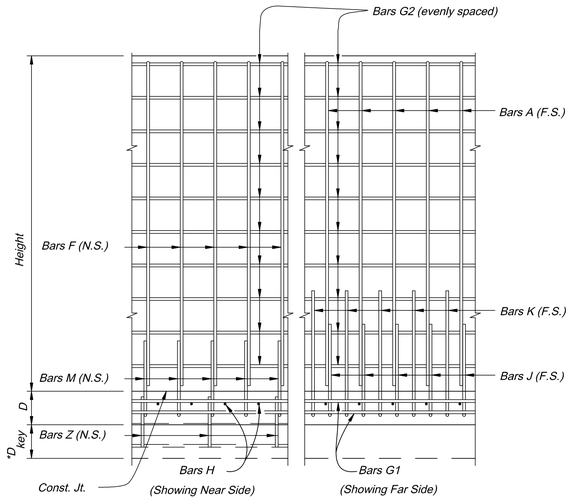
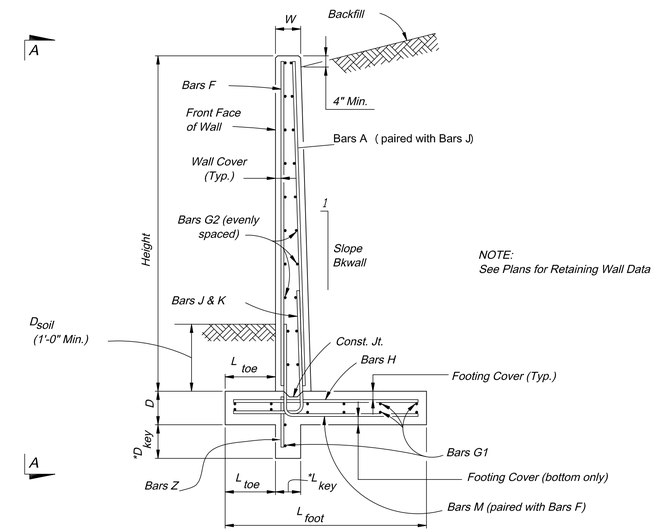


VIEW A-A
(Shear key shown dashed)

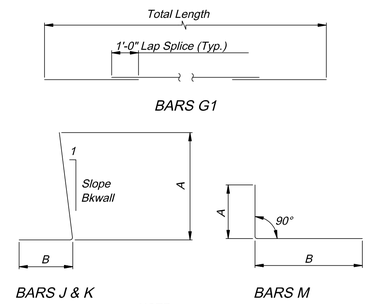


NOTE:
See Plans for Retaining Wall Data

* Shear Key is required only when specified in the Plans.

TYPICAL SECTION

REINFORCING STEEL BENDING DIAGRAMS



NOTE:
All bar dimensions are out-to-out

NOTES

DESIGN SPECIFICATIONS:
Design according to FDOT Structures Manual (current edition).

TRAFFIC RAILINGS OR PARAPETS:
If there is a Traffic Railing or Parapet on the wall, align Wall Joints with V-Grooves, and Wall Expansion Joints with Barrier Open Joints.

FOUNDATION: Prepare the soil below the footing in accordance with the requirements for spread footings in Specification Section 455.

C-I-P CANTILEVER RETAINING WALLS DATA TABLES

WALL DIMENSIONS																										
Wall No.	Begin		End		Height				Wall Length		D	W	L foot		L toe		Slope Bkwall	D soil		L key	D key	V step	Wall Cover	FtgCov (typ.)	FtgCov (bot.)
	Station	Offset	Station	Offset	Begin		End																		
					ft.	in.	ft.	in.	ft.	in.	in.	in.	ft.	in.	ft.	in.		ft.	in.	in.	in.	in.	in.	in.	in.
1	19+15.24	24.15 R	19+63.23	21.30 R	9	0	9	0	50	0	15	12	8	4	2	6	0	0	9	12	12	0	2	3	4

BILL OF REINFORCING STEEL																															
Wall No.	Bars J											Bars K												Bars M							
	Size	No.	Spacing	A				B		Average Total Length		Size	No.	Spacing	A				B		Average Total Length			Size	No.	A		B		Total Length	
				Begin		End									Begin		End														
			in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.			in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.				ft.	in.	ft.	in.	ft.	in.
1	6	51	12	3	1	3	1	3	1	6	2	0	0	0	0	0	0	0	0	0	0	0		4	51	2	7.5	5	5	8	0.25

BILL OF REINFORCING STEEL																															
Wall No.	Bars H					Bars G1						Bars R				Bars Z					Bars A										
	Size	No.	Spacing	Length		Size	No.	Spacing	No. of Lap Splices	Total Length		Size	No.	Length		Size	No.	Spacing	Length		Size	No.	Length				Average Length				
																							Begin		End						
			in.	ft.	in.			in.		ft.	in.			ft.	in.			in.	ft.	in.			ft.	in.	ft.	in.	ft.	in.			
1	4	67	9	7	0	4	20	12	0	49	6	0	0	0	0	6	51	12	1	8	5	51	8	10	8	10	8	10			

BILL OF REINFORCING STEEL																			
Wall No.	Bars F									Bars G2				Bars D					
	Size	No.	Spacing	Length				Average Length		Size	No.	Length		Size	No.	Length			
				Begin		End													
			in.	ft.	in.	ft.	in.	ft.	in.			ft.	in.			ft.	in.		
1	4	51	12	8	10	8	10	8	10	4	36	24	8	5	18	1	6		

SOURCE: FDOT STANDARD DETAIL 06010

NOTES :

1. Work the CIP Cantilevered Retaining Walls Data Tables with Index No. 6010.
2. Concrete Class III (f'c = 5000 psi) with ultrafine fly ash.
3. Wall exposed face surface texture shall be Class 2 surface finish
4. Environmental Classification is Slightly Aggressive.
5. Minimum Soil Nominal Bearing Resistance = 5000 psf.
6. A value of '0' for Slope Backwall indicates front and back of wall are parallel.
7. D_{soil} is typical depth of soil and is used for design purposes only. See Control Drawings for actual ground line.
8. Non-zero values for L_{key} and D_{key} indicate the existence of a shear key.
9. A non-zero value for V_{step} indicates the existence of a footing step, see Control Drawings for location.
10. Bars J, K, A and F vary uniformly between begin and end wall heights as indicated by begin and end dimensions.
11. The number of G1 Bars includes 2 additional bars when a shear key is specified.
12. For walls with variable begin/end height, Bars G2 shall be fanned such that they are evenly spaced throughout length of wall.
13. Work the Aluminum Pedestrian/Bicycle Railing Data Tables with Index No. 862

ALUMINUM PEDESTRIAN / BICYCLE RAILING DATA TABLES

PROJECT REQUIREMENTS					
Station to Station (Lt. or Rt.)	Height (in.)	Style Type (1)	Required: (Yes / No)		
			Bottle Guard	Colored Coatings (2)	Infill Panel to Reject Passage of 4" Sphere (Special conditions only)
STA. 19+16.24, OFF 21.80 R TO STA. 19+63.24, OFF 21.80 R	42	1	No	Yes	No

(1) For "CUSTOM" Style Types, see plans for in-fill panel details.
(2) The color shall be per Federal Color Chart, Federal Standard No. 595C, Color 37038.

JOB NO. 100038929
DRAWN EJR
DESIGNED CRD
CHECKED CRD/MR
QC SJS
SHEET S-2

ORIGINAL JUNE 3, 2015
REVISIONS:
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TASK STRUCTURAL CONTROL TABLES

PROJECT Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT City of Tallahassee Your Own Utilities

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Building C
Tallahassee, Florida 32303
850.575.1800
FBPR Certificate of Authorization No. 24

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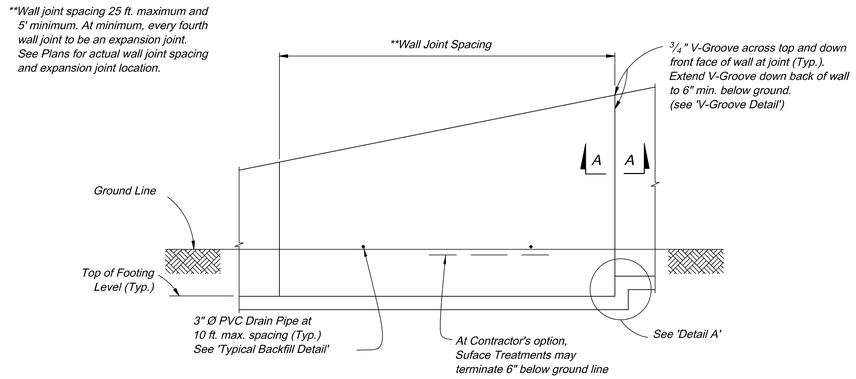
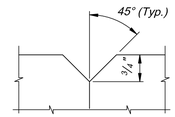
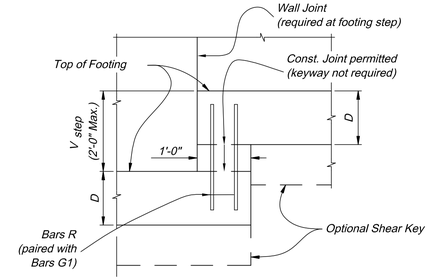


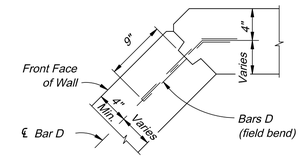
FRONT ELEVATION



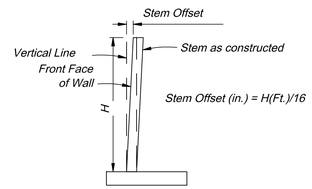
V-GROOVE DETAIL



DETAIL A

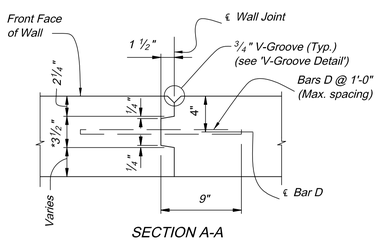


TYPICAL CORNER JOINT DETAIL

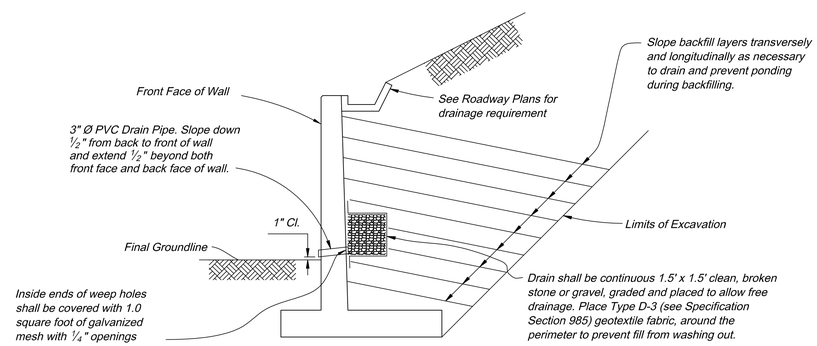


STEM OFFSET VALUES

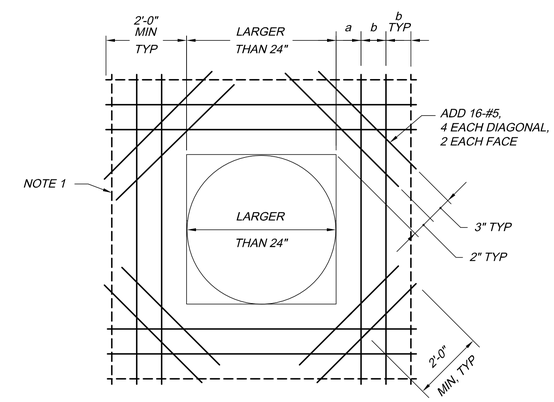
(for H < 20 Ft.)



SECTION A-A
WALL JOINT DETAIL



TYPICAL BACKFILL DETAIL



ADD REINFORCEMENT IN BOTH DIRECTIONS EQUIVALENT TO THE AREA OF STEEL CUT BY THE OPENING, 1/2 EA. SIDE (MIN OF 16-#5, 4 EACH SIDE, 2 EACH FACE)

NOTES:
1. DASHED LINES INDICATE ANY ADDITIONAL ROWS OF REINFORCING REQUIRED WHEN AREA OF STEEL CUT BY OPENING IS MORE THAN THE INDICATED MINIMUM.
2. SPACINGS INDICATED ARE FOR A MAXIMUM AGGREGATE SIZE OF 1".

BAR SIZE	a	b
#3 - #6	2"	3"
#7 - #10	2"	4"
#11	2 1/2"	4 1/2"

TYPICAL REINFORCEMENT AT OPENINGS

NTS

SOURCE: FDOT STANDARD DETAIL 06010

JOB NO. 100038929
DRAWN EJR
DESIGNED CRD
CHECKED CRD/MR
QC SJS
SHEET S-3

Christopher R. Dixon LICENSE NO. 68728 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL REVISIONS: JUNE 3, 2015
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TASK
STRUCTURAL DETAILS

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee
Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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

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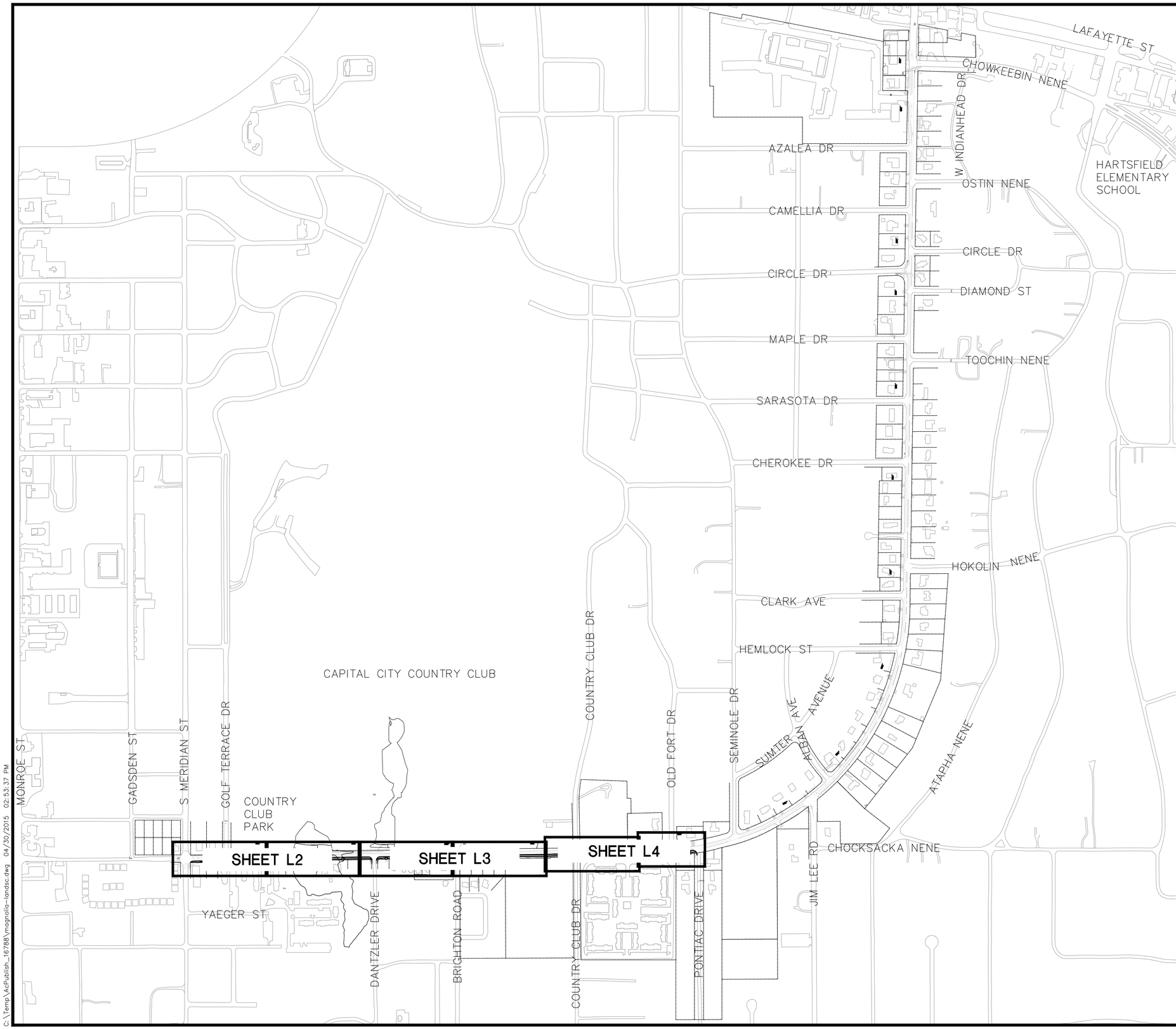

NOTE:
DESIGN SPEED OF 35 MPH IS USED TO DETERMINE SIGHT DISTANCE LINES.

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QC
SHEET L1

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TASK
LANDSCAPE PLAN
KEY MAP

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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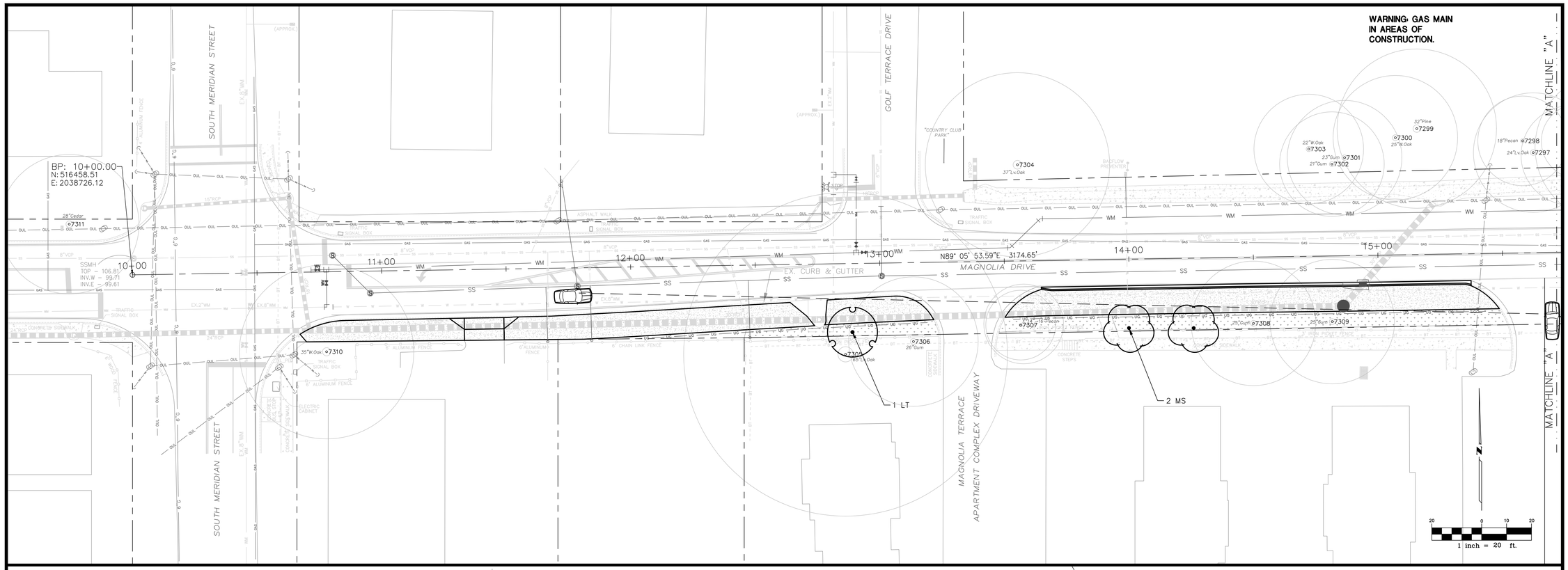

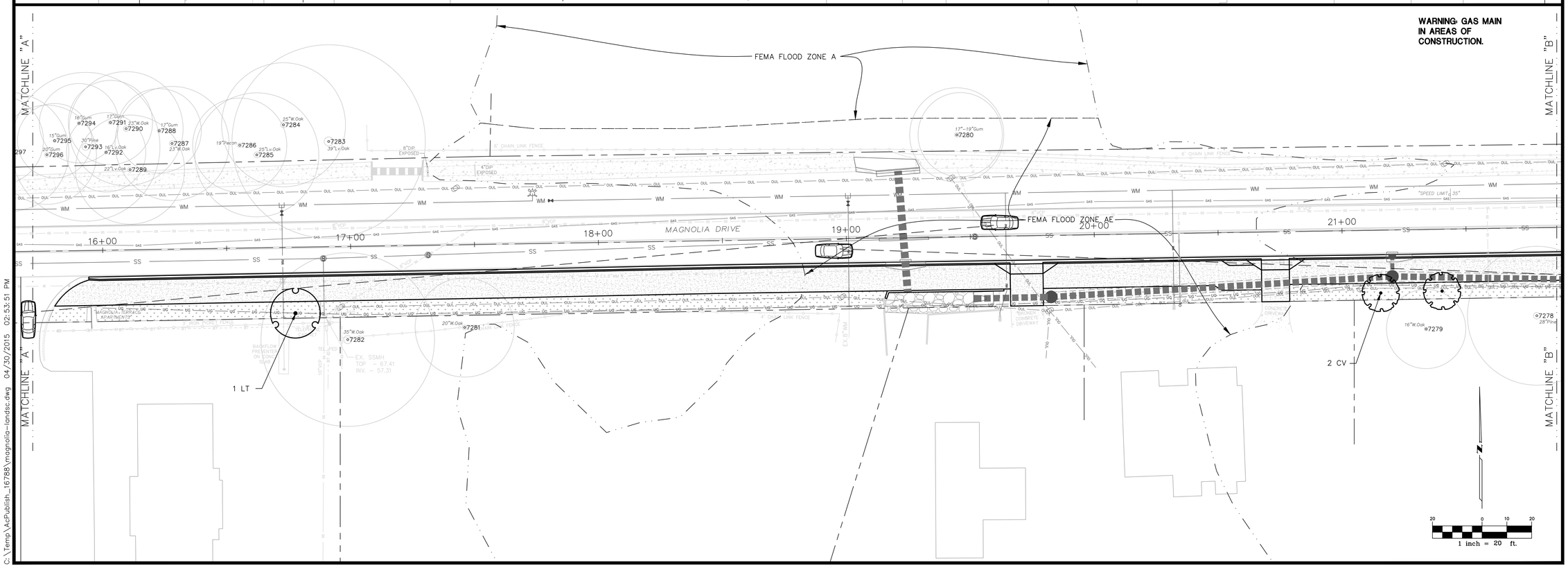

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TASK
LANDSCAPE PLAN

PROJECT
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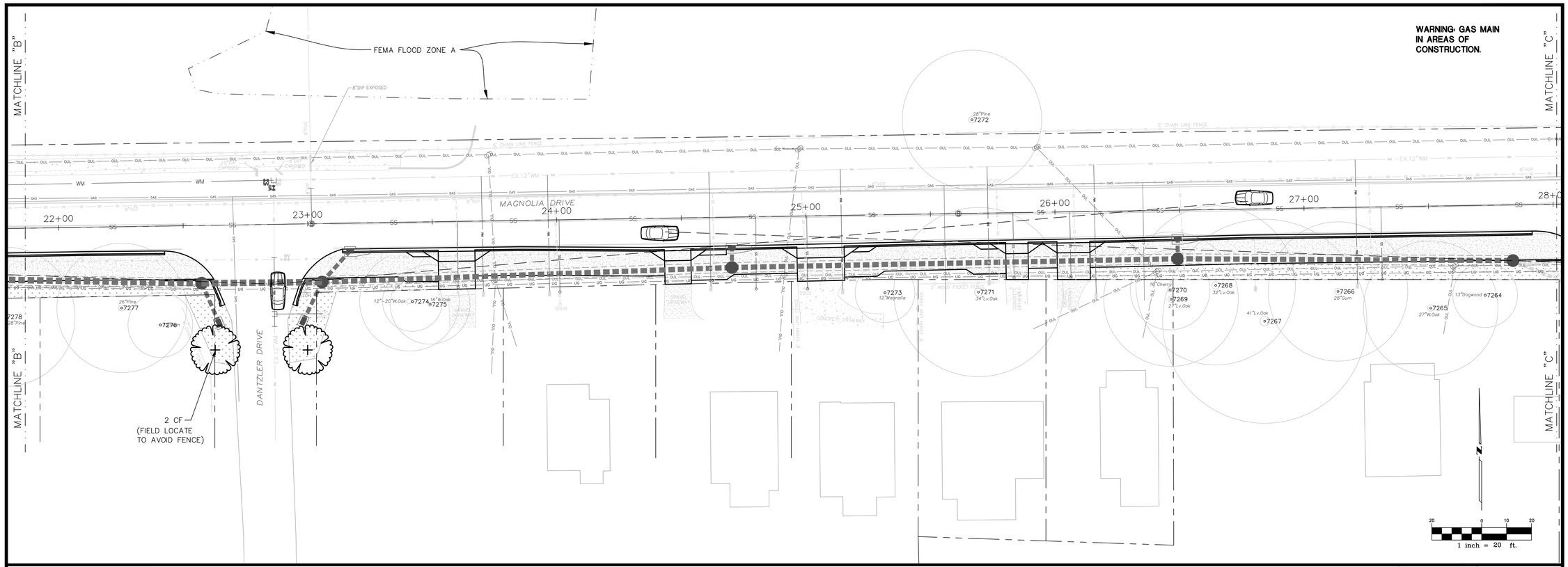

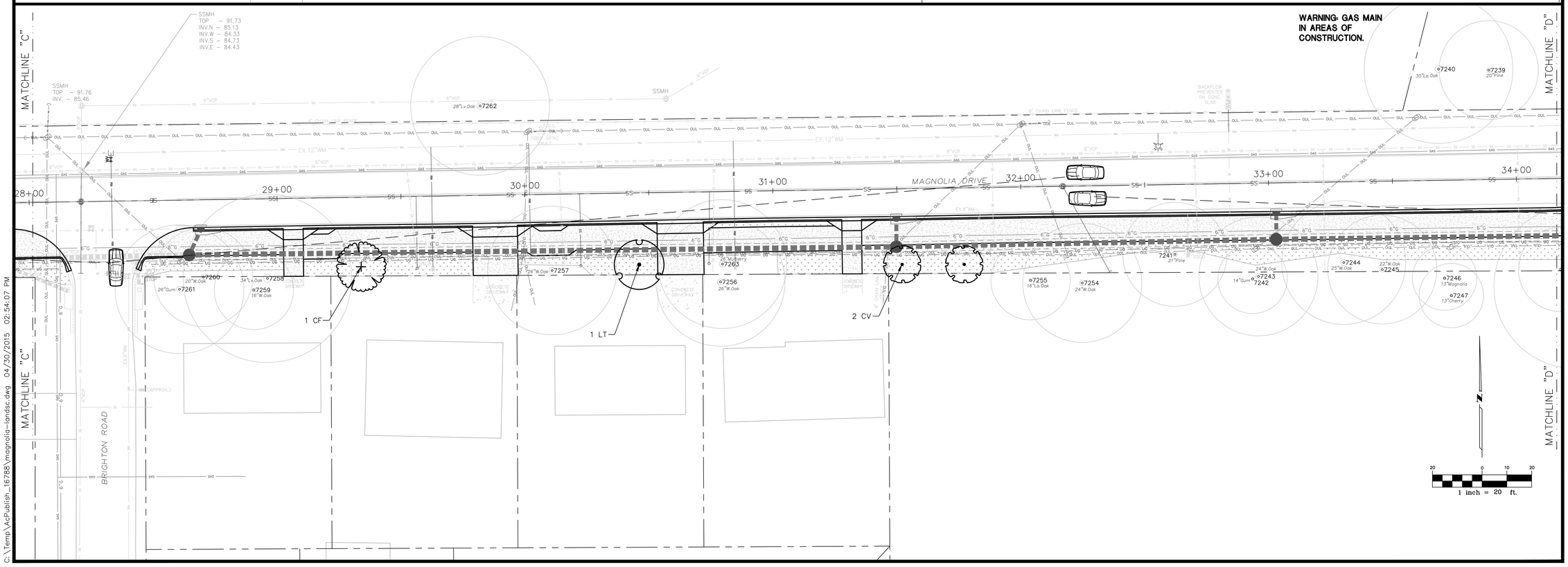

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TASK
LANDSCAPE PLAN

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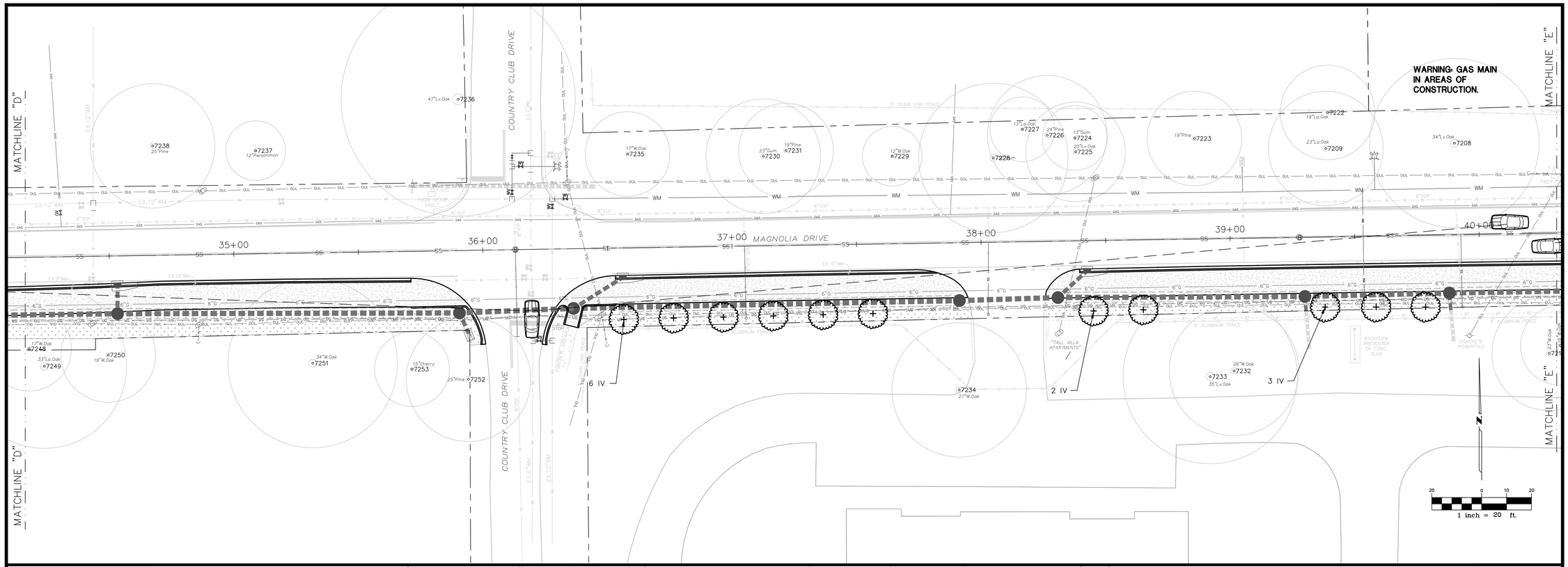

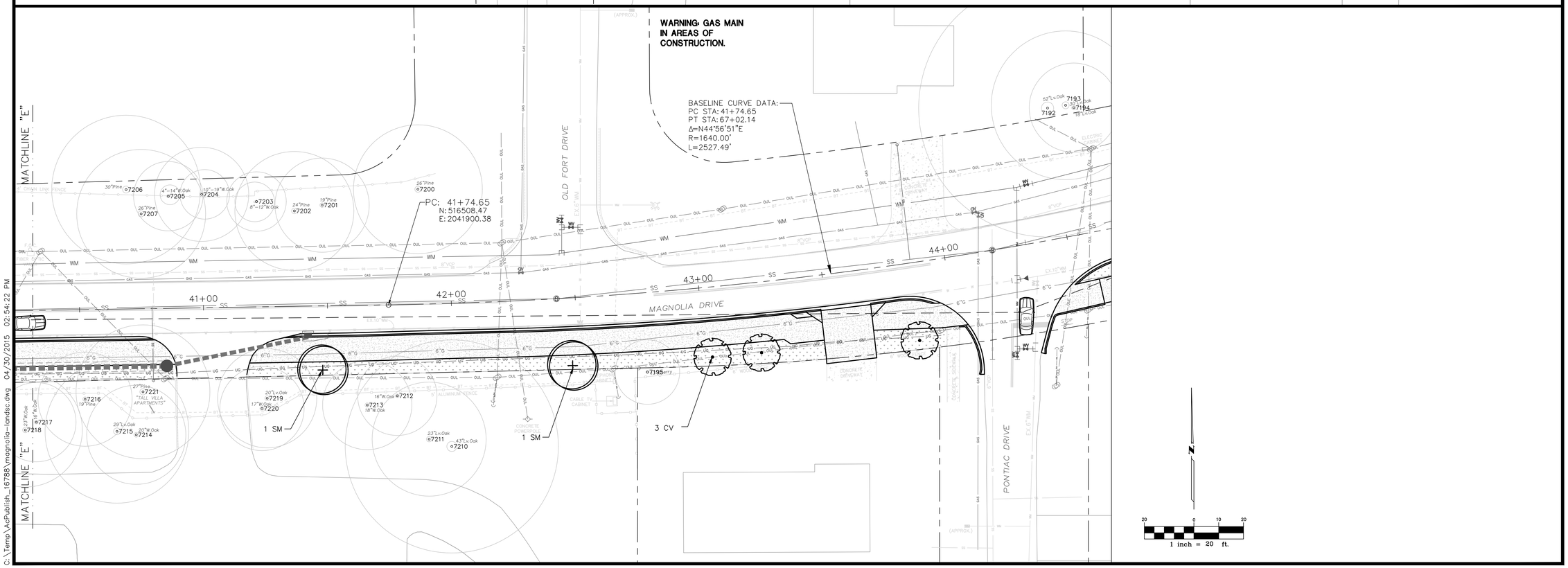

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TASK
LANDSCAPE PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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PLANTING GENERAL NOTES

1. 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. ANY TREES PLANTED WITHIN THE CPZ OF A TREE ON OR ADJACENT TO THE RIGHT OF WAY SHALL BE HAND DUG.

2. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTINGS SHOWN ON ALL DRAWINGS. ALL PLANTS SHALL MEET SIZE, CONTAINER, AND SPACING SPECIFICATIONS AS SHOWN IN THE PLANT SCHEDULE. 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.

3. ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1 OR BETTER AS SET FORTH IN "GRADES AND STANDARDS FOR NURSERY PLANTS, SECOND EDITION" STANDARDS AND DESIGNATIONS. NOTIFY CITY STAFF AND LANDSCAPE ARCHITECT A MINIMUM OF ONE WEEK PRIOR TO PLANT DELIVERY TO SCHEDULE INSPECTION AND APPROVAL. INSTALLED PLANT MATERIAL NOT MEETING SPECIFICATIONS SHALL BE REMOVED AND REPLACED AT CONTRACTOR'S EXPENSE.

4. 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.

5. ALL PLANTS SHALL RECEIVE A 3" LAYER OF PINE STRAW MULCH. ALL TREES NOT IN A SHRUB/GROUNDCOVER BED SHALL RECEIVE A LAYER OF MULCH SIX FEET IN DIAMETER AND 3" THICK WITH NO MULCH OVER THE ROOT BALL.

6. THE LANDSCAPE CONTRACTOR SHALL CONDUCT REPRESENTATIVE SOIL ANALYSIS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE DESIGNER OF ANY IMPROPER SOIL CONDITION (NUTRITIONAL DEFICIENCIES, WETNESS, MUCK, DEBRIS, ETC.) AND SHALL RECOMMEND FOR APPROVAL, PRIOR TO INSTALLATION, ALL SOIL AMENDMENTS THAT MAY BE NECESSARY TO PROMOTE HEALTHY, VIGOROUS PLANT GROWTH.

7. THE LANDSCAPE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING VEGETATION DISTURBED BY PLANT MATERIAL INSTALLATION ACTIVITIES. THIS REPAIR/REPLACEMENT SHALL BLEND SEAMLESSLY WITH THE EXISTING LANDSCAPE. ALL DISTURBED AREAS WILL BE SODDED.

8. THE LANDSCAPE CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN PREPARING PLANTING AREA FINAL GRADE ELEVATIONS.

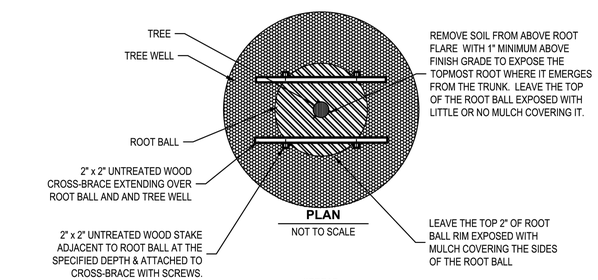
9. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT A MINIMUM OF 48 HOURS PRIOR TO COMPLETION TO SCHEDULE FINAL WALK THROUGH. A FINAL WALK THROUGH SHALL NOT BE PERFORMED IF PREVIOUS PUNCH LISTS ARE NOT COMPLETED.

10. ANY CHANGES MADE TO THE REGULATED PLANT MATERIAL IN THE LANDSCAPE PLAN MUST ALSO BE APPROVED BY THE GROWTH MANAGEMENT DEPARTMENT.

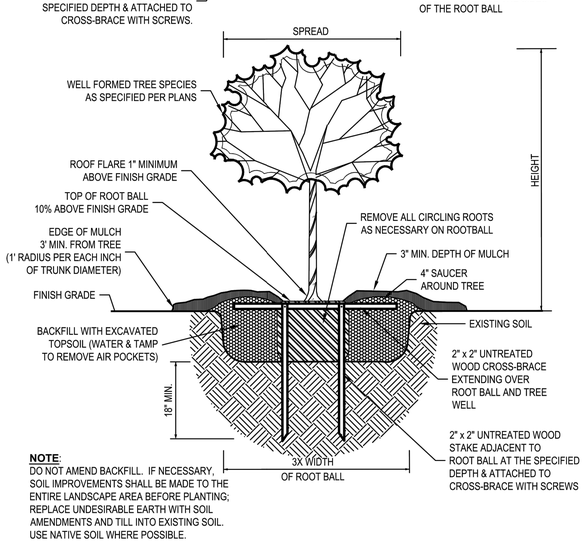
11. THE MITIGATION PLAN ON SHEET L6 SHALL BE FOLLOWED FOR ALL TREES IMPACTED WITHIN AND ADJACENT TO THE PROPOSED WORK AREA.

PLANT SCHEDULE PHASE 1

TREES	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SPECIFICATIONS
CV	7	CHIONANTHUS VIRGINICUS	WHITE FRINGETREE	BB; MULTI-TRUNK	6' HT. X 42" SPD. MIN.
CF	3	CORNUS FLORIDA 'WEAVER'	WEAVER DOGWOOD	30 GAL; 2" CAL.	8' HT. X 4' SPD. MIN.
IV	11	ILEX VOMITORIA	YAUPON HOLLY	BB; MULTI-TRUNK	6' HT. X 42" SPD. MIN.
LT	5	LIRIODENDRON TULIPIFERA	TULIP POPLAR	30 GAL; 2" CAL.	6' HT. X 42" SPD. MIN.
SM	2	MAGNOLIA STELLATA	STAR MANOLIA	30 GAL.; MULTI-TRUNK	6' HT. X 42" SPD. MIN.
MS	2	MAGNOLIA X SOULANGIANA	SAUCER MAGNOLIA MULTI-TRUNK	30 GAL.; MULTI-TRUNK	6' HT. X 42" SPD. MIN.



PLAN
NOT TO SCALE



NOTE:
DO NOT AMEND BACKFILL. IF NECESSARY, SOIL IMPROVEMENTS SHALL BE MADE TO THE ENTIRE LANDSCAPE AREA BEFORE PLANTING; REPLACE UNDESIRABLE EARTH WITH SOIL AMENDMENTS AND TILL INTO EXISTING SOIL. USE NATIVE SOIL WHERE POSSIBLE.

TREE PLANTING DETAIL

NOT TO SCALE

TREE MITIGATION PLAN

NOTE: ALTHOUGH NO PROTECTED TREES ARE PROPOSED TO BE REMOVED, THERE ARE IMPACTS TO PROTECTED TREES. THE FOLLOWING TREE MITIGATION PLAN WILL BE FOLLOWED FOR ALL TREES WITHIN AND ADJACENT TO THE PROPOSED WORK AREA. CONTRACTOR WILL NOT IMPACT PRIVATE PROPERTY WITHOUT PRIOR WRITTEN PERMISSION FROM THE LAND OWNER. IF ANY PERMIT TREES ARE DAMAGED, THEN THE DEBITS WILL BE REPLACED BY LEON COUNTY PUBLIC WORKS BY PLANTING EQUIVALENT CREDITS AND/OR PAYING INTO THE TREE BANK FUND.

PRIOR TO BEGINNING CLEARING OR CONSTRUCTION ACTIVITIES, THE CONTRACTOR'S CERTIFIED ARBORIST (CCA) SHALL COORDINATE WITH THE GROWTH MANAGEMENT INSPECTOR TO EVALUATE THE CURRENT HEALTH AND CONDITION OF PROTECTED TREES WITHIN AND ADJACENT TO THE PROPOSED CONSTRUCTION, AND EVALUATE THE IMPACTS THAT WILL BE IMPOSED BY PROPOSED CONSTRUCTION ACTIVITY. THE CCA SHALL COLLABORATE WITH THE GROWTH MANAGEMENT ARBORIST TO DETERMINE THE BEST COURSE OF ACTION NECESSARY TO MITIGATE THE CONSTRUCTION IMPACTS TO TREES AND THEIR ROOT ZONES. THE GOAL OF THE MITIGATION EFFORT IS TO REASONABLY ENSURE THE LONG TERM HEALTH AND SAFETY OF THE TREES THAT WILL REMAIN. IN CASES WHERE IMPACTS WILL BE EXCESSIVE, A RECOMMENDATION FOR REMOVAL SHALL BE DOCUMENTED AND PRESENTED TO THE PERMITTEE AND GROWTH MANAGEMENT FOR FURTHER ACTION. IN CASES WHERE THE CCA AND THE GROWTH MANAGEMENT ARBORIST CANNOT COME TO MUTUAL AGREEMENT ON THE MITIGATION EFFORT, A RECOMMENDATION SHALL BE REQUESTED FROM THE LEON COUNTY EXTENSION URBAN FORESTER.

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 (OR AS DEEMED NECESSARY BY THE ARBORIST) 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 1" 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.

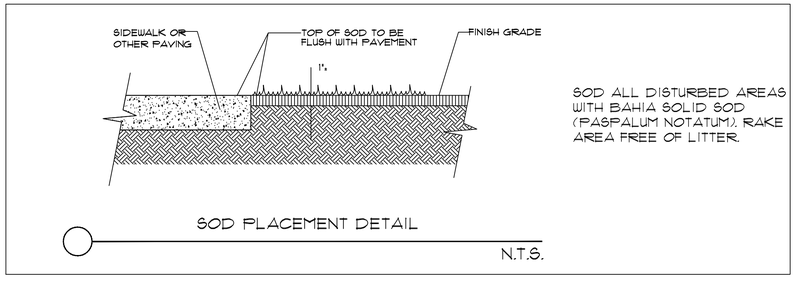
ROOT PRUNING
ROOT PRUNING SHALL OCCUR PRIOR TO SITE GRADING, EARTHWORK, EXCAVATION OR ANY OTHER ACTIVITY WHICH MAY DAMAGE THE ROOTS OF A TREE PROPOSED FOR MITIGATION IN ALL AREAS OF DEMOLITION OR NEW CONSTRUCTION REQUIRING REMOVAL OF EXISTING ROOTS: I.E. EXCAVATION, CONSTRUCTION OF FOOTINGS, RETAINING WALLS, CURBS PAVING AND BASE. ROOTS SHALL BE CUT WITH A MECHANICAL TRENCHING DEVICE TO A MINIMUM DEPTH OF 18" FOLLOWED IMMEDIATELY BY A CLEAN-CUT HAND PRUNING OF ALL ROOTS OF GREATER THAN ¾" DIAMETER. ROOT PRUNING SHALL OCCUR IN ADVANCE OF SITE CLEARING OR EXCAVATION OR CONSTRUCTION. ALL EXPOSED PRUNED OR CUT ROOTS SHALL BE COVERED IMMEDIATELY WITH TOPSOIL, MULCH OR OTHER ORGANIC MEDIUM. WHEN IT IS NOT POSSIBLE TO BACK FILL WITHIN AN HOUR (IN SUN) OR TWO HOURS (IN SHADE) THE EXPOSED ROOTS SHALL BE COVERED WITH BURLAP AND THE BURLAP KEPT MOIST UNTIL BACK FILLING OCCURS.

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 6" 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 1½ - 1¾" DIAMETER SOIL AUGER TO DRILL HOLES TO A DEPTH OF 12" EVERY 24" 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" 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" OF WOOD CHIPS, COVERED WITH ¾" 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 1" OF RAINFALL.



SOD ALL DISTURBED AREAS WITH BAHIA SOLID SOD (PASPALUM NOTATUM). RAKE AREA FREE OF LITTER.

SOD PLACEMENT DETAIL

N.T.S.

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TASK LANDSCAPE DETAILS

PROJECT Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT LEON COUNTY FLORIDA'S CAPITAL COUNTY

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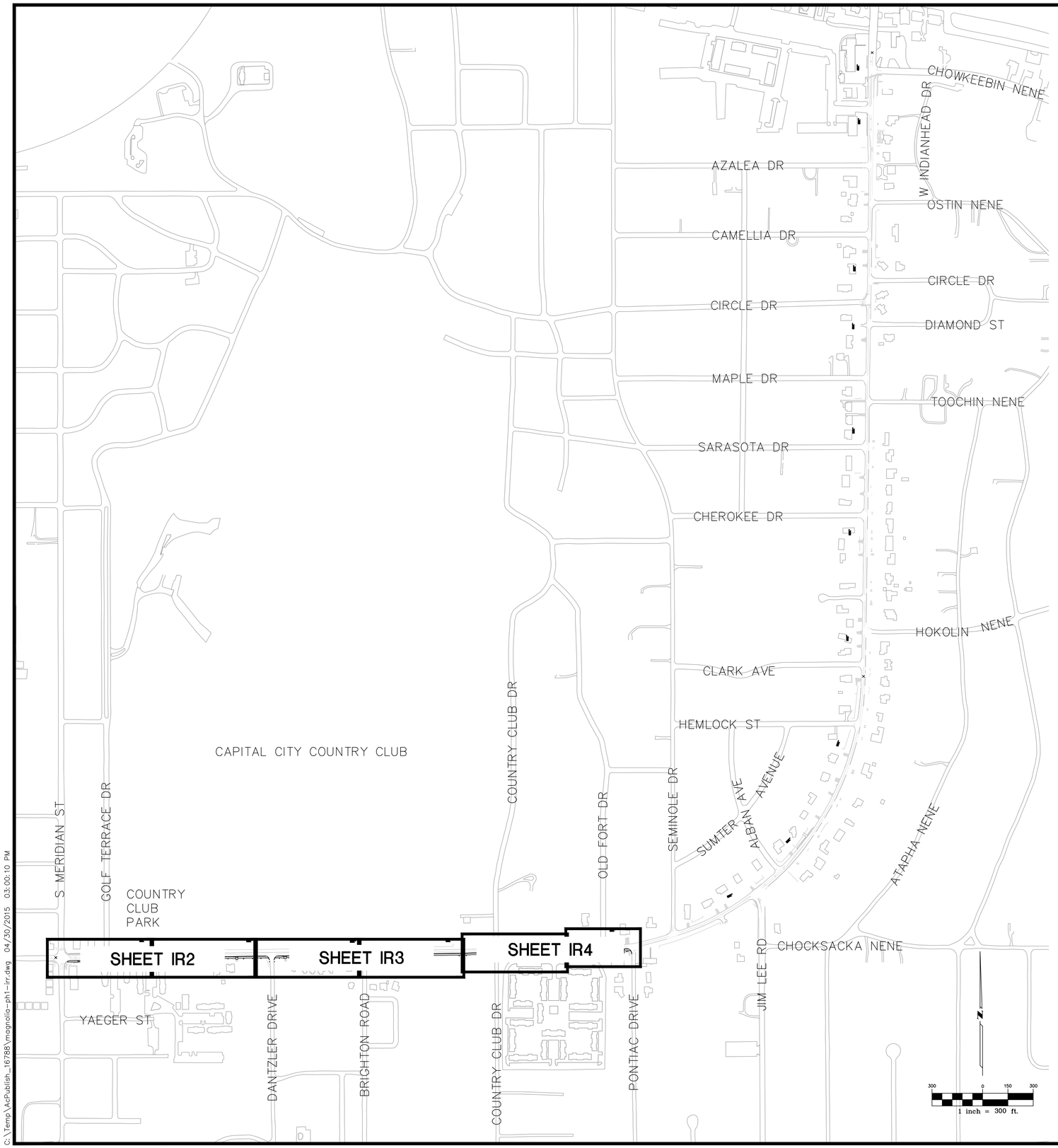

IRRIGATION SYMBOLS LEGEND

- 2-EA. Ø.5-GPM PRESSURE-COMPENSATING BUBBLER HEAD
- 1½" 24-VAC REINF. PLASTIC ZONE VALVE W/FLOW CONTROL
- 2" 24-VAC BRASS MASTER VALVE
- 2-WIRE DECODER, SINGLE STATION
- 2-WIRE DECODER, DUAL STATION
- M DOMESTIC IRRIGATION METER
- B 3" BACKFLOW PREVENTER (APPROVED TYPE)
- C OUTDOOR TYPE 2-WIRE CONTROLLER (MINIMUM 4-ZONES)
- GROUNDING ELECTRODE(S)
- ========== SCH.4Ø PVC PAVEMENT SLEEVE
- - - - - - - - - - - - SCH.4Ø PVC S.W. MAINLINE PIPING
- ———————— SCH.4Ø PVC S.W. LATERAL PIPING

IRRIGATION GENERAL NOTES

1. THE DRAWINGS ARE TO BE CONSIDERED DIAGRAMMATIC, AS IT MAY NOT HAVE BEEN POSSIBLE TO ACCURATELY DEPICT THE EXACT LOCATIONS FOR ALL MATERIAL, OR ALL JOBSITE ELEMENTS. THE INSTALLER SHALL BE EXPECTED TO MAKE MINOR ADJUSTMENTS ON THE SITE AS NEEDED, IN ORDER TO MAINTAIN COMPLETE AND ACCURATE COVERAGE, AND MAINTAIN THE INTENT OF THE DESIGN. MODIFICATIONS WHICH INCREASE THE SPACING OF HEADS, OR DECREASE THE SIZING OF PIPE, SHALL NOT BE MADE WITHOUT PRIOR CONSENT OF THE PROJECT MANAGER. THE FINAL LOCATIONS FOR ALL MAJOR EQUIPMENT, INCLUDING CONTROLLERS, VALVES, SUPPLY CONNECTIONS, MAINLINES, ETC. SHALL BE DETERMINED IN THE FIELD, STAKED OUT BY THE CONTRACTOR, USING THE DRAWINGS AS A GUIDE, AND APPROVED PRIOR TO INSTALLATION.

2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH PREVAILING CODES AND REGULATIONS. ALTHOUGH DUE DILIGENCE HAS BEEN EXERCISED IN THE PREPARATION OF THE DOCUMENTS TO AVOID CONFLICTS, IT SHALL REMAIN THE RESPONSIBILITY OF THE INSTALLER FOR VERIFICATION AND CONFORMANCE TO THE PARTICULAR CODES FOR THIS LOCATION. THE INSTALLER SHALL OBTAIN ANY NECESSARY PERMITS, LOCATES, AND INSPECTIONS. ALL WORK TO BE FURTHER COORDINATED WITH THE CITY OF TALLAHASSEE, URBAN BEAUTIFICATION DEPT.

3. ALL WORK SHALL BE CLOSELY COORDINATED WITH THAT OF OTHER TRADES, IN ORDER TO AVOID CONFLICTS. THE INSTALLATION SHALL BE COORDINATED WITH ALL NEW AND EXISTING IMPROVEMENTS, AND WITH THE ACTUAL INSTALLED TREE PLANTING LOCATIONS. OBSERVE ALL EASEMENTS AND PROPERTY LINES.

4. THE INSTALLER SHALL BE FAMILIAR WITH ALL APPLICABLE DOCUMENTS, INCLUDING ANY WRITTEN SPECIFICATIONS THAT MAY HAVE BEEN ISSUED. ANY CONFLICT FOUND BETWEEN THE VARIOUS DOCUMENTS SHALL BE SUBMITTED IN WRITING TO THE PROJECT MANAGER FOR DETERMINATION.

5. ALL MATERIAL AND LABOR NECESSARY TO PROVIDE A COMPLETE, FULLY OPERATIONAL, AND GUARANTEED SYSTEM SHALL BE CONSIDERED PART OF THE WORK, WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED IN THE DOCUMENTS. THIS SHALL INCLUDE CONFORMANCE TO THE REQUIREMENTS AND RECOMMENDATIONS OF THE VARIOUS MANUFACTURERS OF THE EQUIPMENT, AND TO APPLICABLE TRAINING AND CERTIFICATION OF INSTALLATION PERSONNEL.

6. PIPING AND WIRING PASSING UNDER PAVED OR OTHER IMPERVIOUS SURFACES SHALL BE INSTALLED IN SLEEVING OF ADEQUATE SIZE AND STRENGTH. SIDEWALKS AND DECKS AND TURF PAVERS SHALL REQUIRE SLEEVING, EVEN IF NOT SHOWN ON THE DRAWINGS. CONTROL WIRING SHALL BE RUN THROUGH SLEEVES, BUT MUST REMAIN IN ITS OWN CONDUIT INSIDE THE SLEEVE. MOST, IF NOT ALL, SLEEVES OCCUR IN LOCATIONS WHERE PAVING WILL BE REPLACED, SO TRENCHING-IN OF SLEEVES WILL BE PERMITTED. ANY SLEEVE REQUIRED UNDER PAVEMENT THAT IS NOT TO BE REPLACED SHALL BE INSTALLED USING DIRECTIONAL BORING.

7. SLEEVES UNDER ROADS OR DRIVEWAYS MAY BE THE RESPONSIBILITY OF OTHER THAN THE IRRIGATION CONTRACTOR (SUCH AS THE PAVING OR SITE CIVIL CONTRACTOR). CONSULT OTHER DOCUMENTS FOR ADDITIONAL INFORMATION. ANY NEEDED SLEEVE WHICH EITHER CANNOT BE FOUND OR IS DAMAGED BEYOND PRACTICAL USE SHALL BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY, ALONG WITH RECOMMENDATIONS FOR CORRECTIVE ACTION. SLEEVES UNDER SIDEWALKS ARE NORMALLY INSTALLED BY THE IRRIGATION CONTRACTOR.

8. THE CONTROL SYSTEM FOR THIS PROJECT SHALL BE A DIGITAL 2-WIRE TYPE. THE COMPONENTS MUST BE COMPATIBLE WITH THE CENTRAL SYSTEM ALREADY IN USE BY THE CITY OF TALLAHASSEE. DATA/CONTROL WIRING SHALL BE ROUTED WITH THE MAINLINE WHENEVER POSSIBLE, AND SHALL BE PROTECTED WITH A 1" GRAY PVC CONDUIT, WITH PULL BOXES AT RECOMMENDED INTERVALS. WIRING AND SPLICES SHALL BE OF A TYPE AND ORIGIN APPROVED BY THE MANUFACTURER OF THE CONTROL SYSTEM.

9. ALL SPRINKLER HEADS SHALL BE OF THE PROPER SIZE AND TYPE FOR THE LOCATION AND PLANT MATERIAL. HEADS SHALL BE INSTALLED IN THE PRESCRIBED MANNER, PLUMB, AND WITH THE PROPER HEIGHT WITH RESPECT TO GRADE AND/OR PLANT MATERIAL. ALL HEADS AND OTHER EQUIPMENT SHALL BE INSTALLED WITH ADEQUATE AND UNIFORM CLEARANCES FROM ALL PAVING, CURBS, SIDEWALKS, WALLS, AND OTHER OBSTACLES, SO THAT DAMAGE TO EQUIPMENT DOES NOT OCCUR DURING NORMAL LANDSCAPE MAINTENANCE OPERATIONS. ALL SPRINKLERS SHALL BE ADJUSTED TO OBTAIN OPTIMAL COVERAGE OF PLANT MATERIAL, WHILE MINIMIZING OVERSPRAY ONTO WINDOWS, WALLS PAVING OR OTHER IMPERVIOUS SURFACES, PARTICULARLY WOODWORK AND/OR TRIM.

10. THERE ARE MANY EXISTING TREES IN THE WORK AREA WHICH SHALL BE PRESERVED. THE INSTALLER SHALL EMPLOY ANY MEANS NECESSARY TO AVOID DAMAGE TO THESE TREES, INCLUDING JETTING, BORING OR HAND-DIGGING OF PIPE,

11. THE CONTROLLER SHALL REQUIRE A STANDARD 12Ø-VAC POWER FEED, WHICH SHALL BE COORDINATED BY THE INSTALLER, AND HOOKED UP BY A LICENSED ELECTRICIAN. IT IS PREFERRED THAT A DEDICATED CIRCUIT BE PROVIDED FOR THIS CONNECTION. A 3-WIRE POWER INPUT SURGE ARRESTOR SHALL BE PROVIDED ON THE POWER FEED, AND A DEDICATED GROUND ROD/PLATE NETWORK (SEE DETAIL) SHALL BE INSTALLED, HAVING A MEASURED EARTH GROUND RESISTANCE OF NOT GREATER THAN TEN (1Ø) OHMS.

12. THE CONTROLLER SHALL BE EQUIPPED WITH A PROPERLY LOCATED AND INSTALLED RAIN SHUTOFF SENSOR DEVICE, AS REQUIRED BY FLORIDA LAW. THE SENSOR SHALL BE LOCATED IN SUCH A MANNER SO THAT IT IS UNOBSTRUCTED AND DIRECTLY EXPOSED TO NATURAL RAINFALL AND SUNLIGHT FROM ALL DIRECTIONS, BUT NOT TO RUNOFF WATER FROM ROOFS, ETC.

13. THE MINIMUM SUPPLY REQUIREMENT FOR THE SYSTEM AS DESIGNED IS 4Ø-GPM AT 5Ø-PSI.

14. THE INSTALLER SHALL BE EXPECTED TO BE FAMILIAR WITH ALL REQUIREMENTS FOR THE WORK, AND TO CONDUCT HIS WORK IN A CLEAN, SAFE, AND WORKMANLIKE MANNER. THE OWNER RESERVES THE RIGHT TO ACT TO PROTECT HIS PROPERTY AND THE OTHER PERSONNEL AT WORK THERE, AND TO MAKE EMERGENCY REPAIRS OR TAKE CORRECTIVE ACTION IF THE INSTALLER DOES NOT FULFILL HIS OBLIGATIONS IN A TIMELY MANNER. THE OWNER FURTHER RESERVES THE RIGHT TO BACK-CHARGE THE INSTALLER TO COVER SUCH EXPENSES, TO THE EXTENT ALLOWED UNDER APPLICABLE LAW.

JOB NO. 100038929
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ORIGINAL APRIL 29, 2015
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TASK
IRRIGATION PLAN
KEY MAP, LEGEND, AND NOTES

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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

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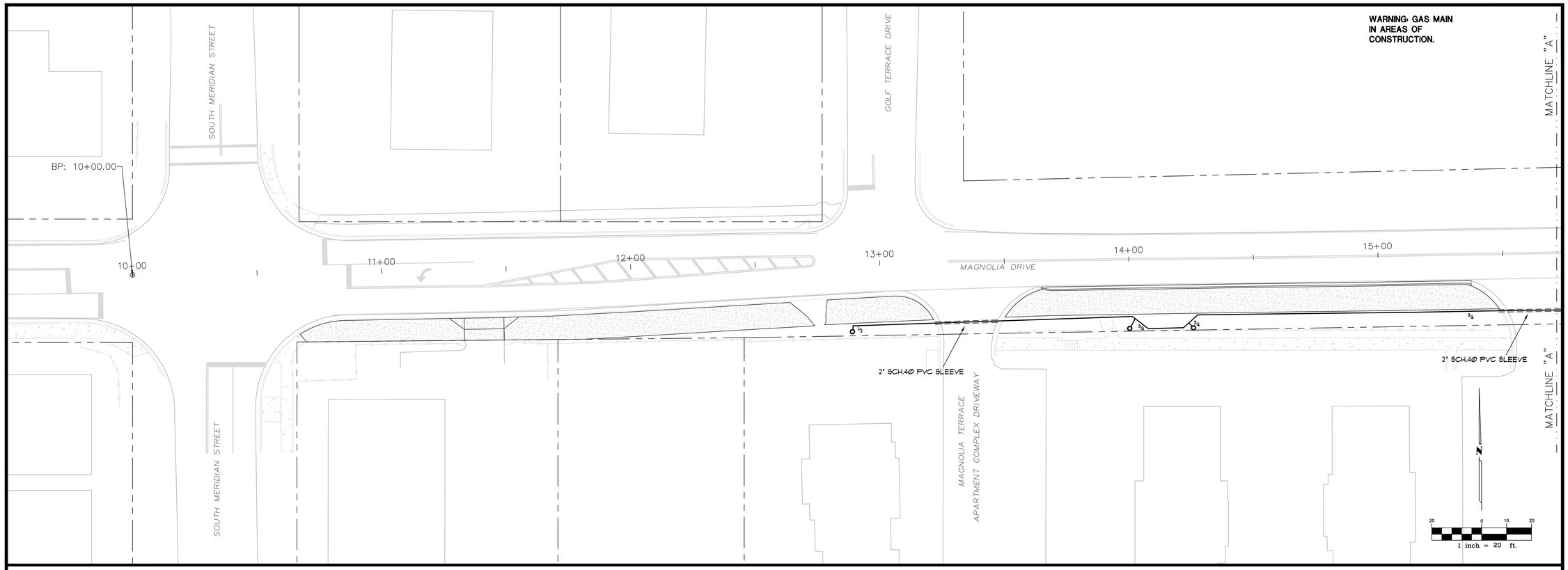

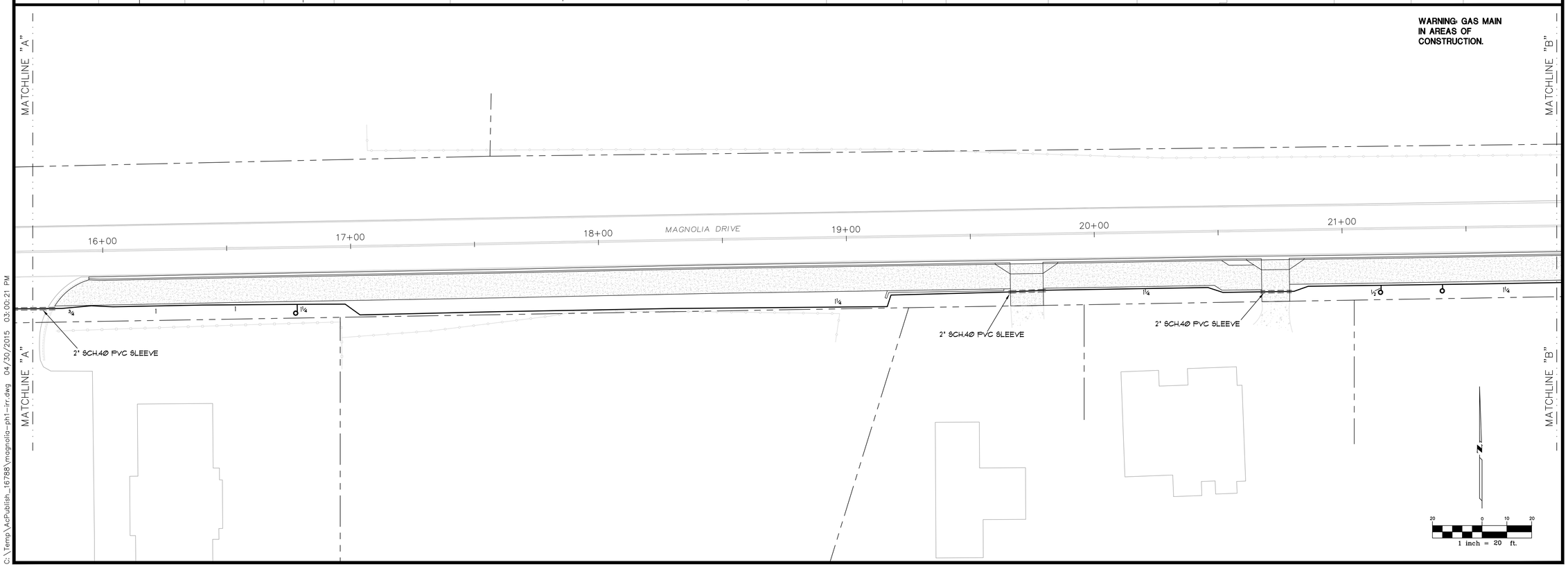

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ORIGINAL APRIL 29, 2015
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TASK
IRRIGATION PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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

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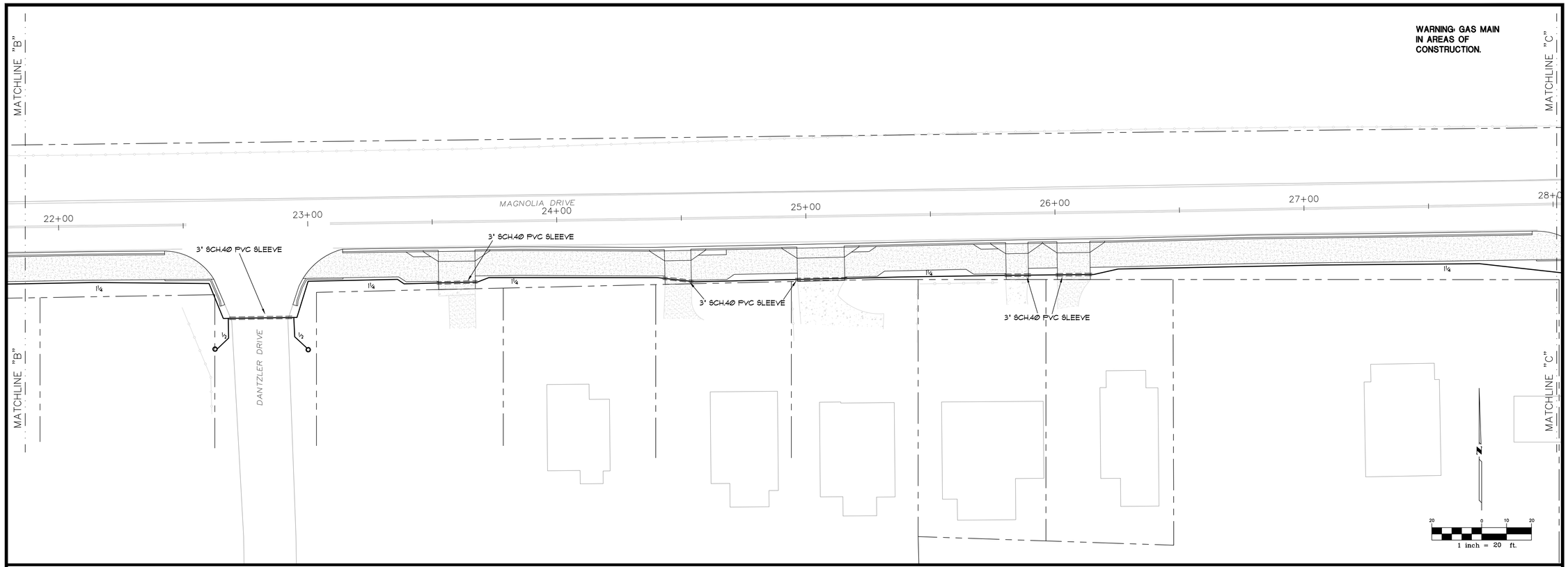

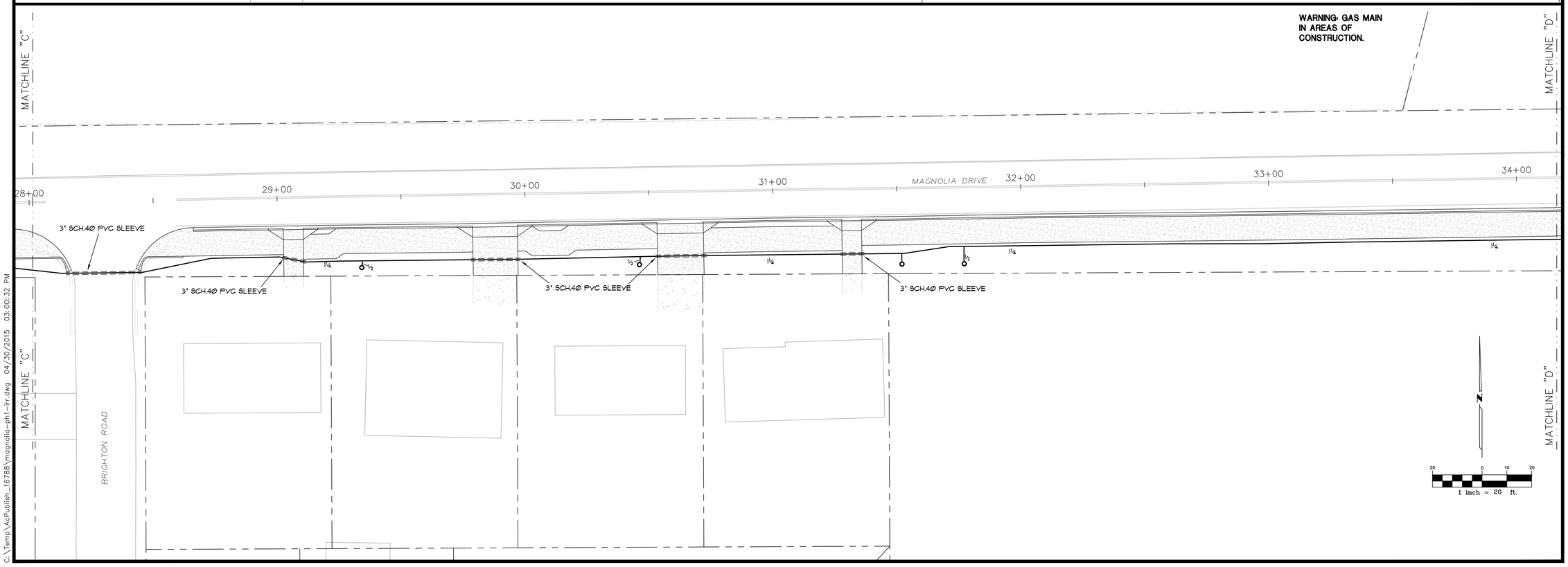

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ORIGINAL APRIL 29, 2015
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TASK
IRRIGATION PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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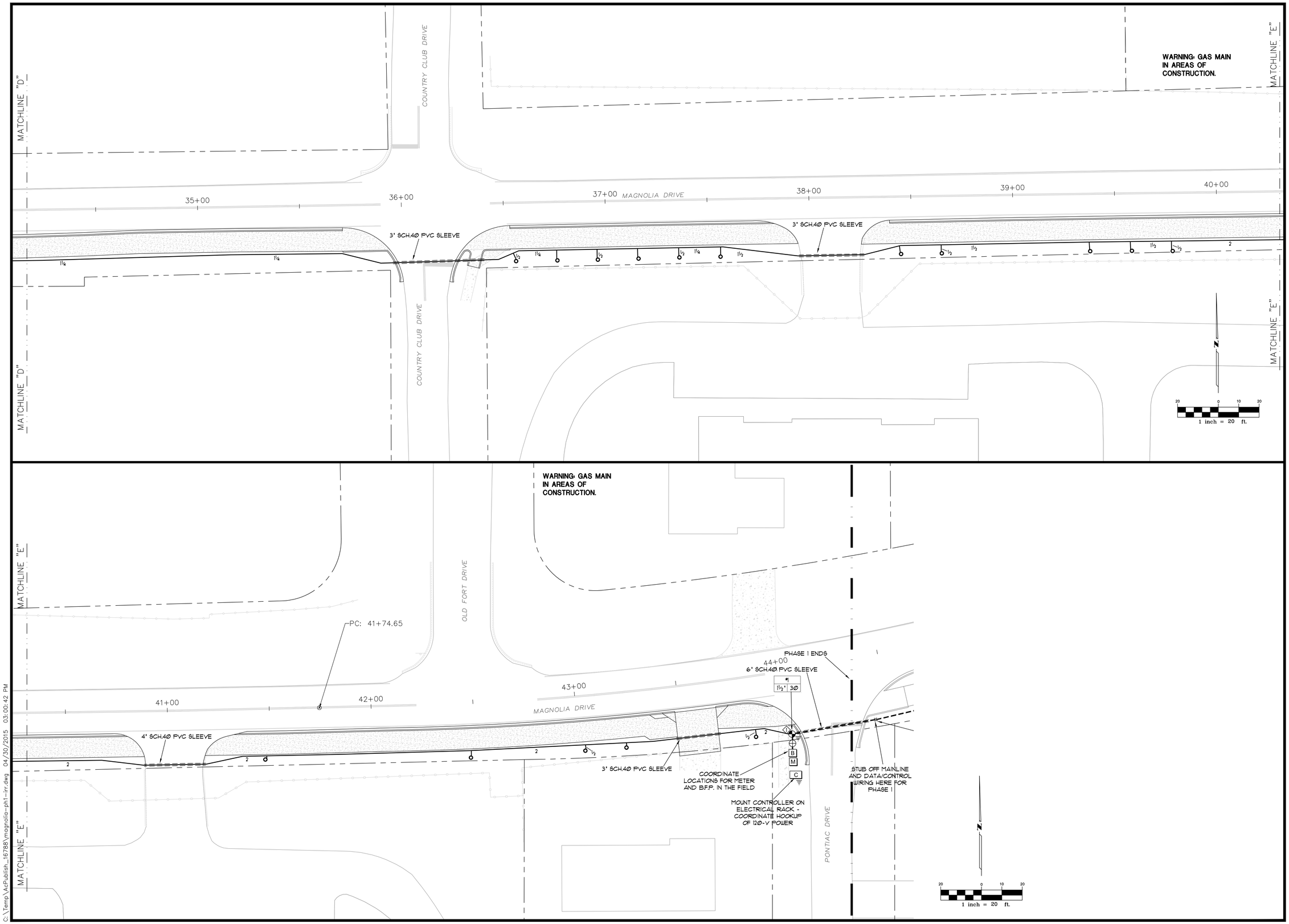

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ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
IRRIGATION PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
LEON
FLORIDA'S CAPITAL COUNTY

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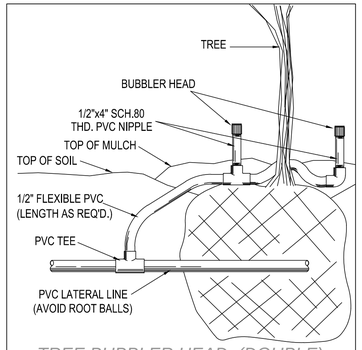
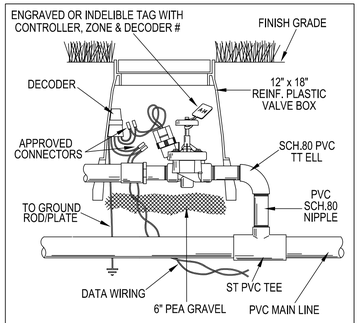
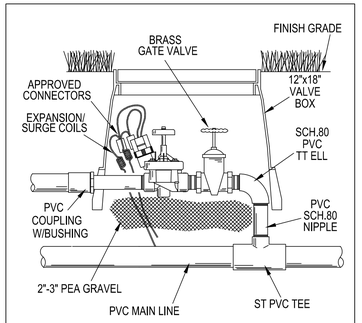


TREE BUBBLER HEAD (DOUBLE)

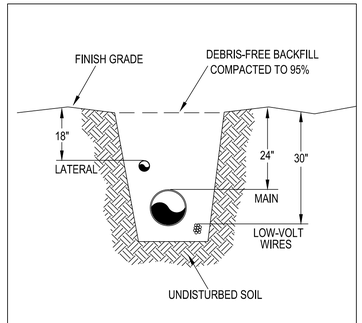


ELECTRIC CONTROL VALVE

(USE APPROVED BOX EXTENSION IF REQUIRED BY DEPTH OF BURIAL)

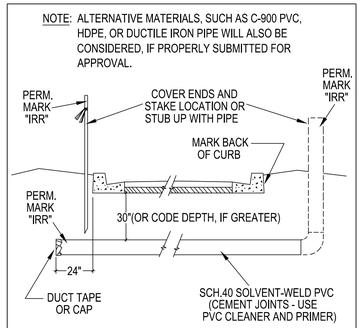


ELECTRIC MASTER VALVE



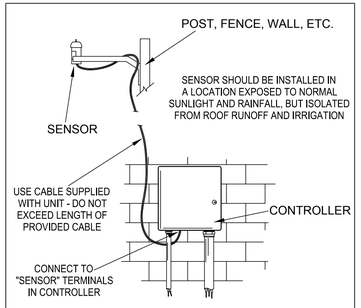
TRENCHING DETAIL

(USE CODE DEPTHS, IF GREATER)



SLEEVING DETAIL

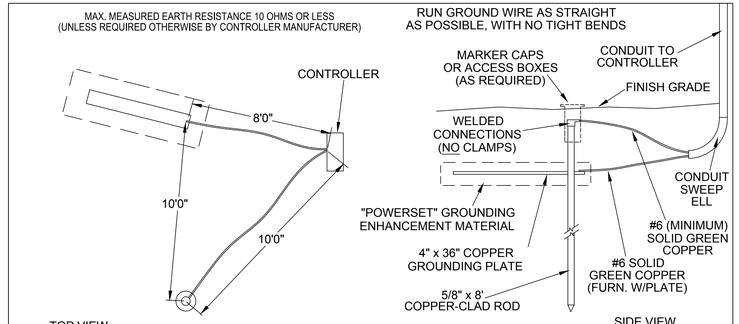
(REQUIREMENTS VARY - CHECK CODES FIRST)



RAIN SENSOR INSTALLATION

(HARD-WIRED)

OBSERVE ALL MANUFACTURER'S REQUIREMENTS & RECOMMENDATIONS



GROUND ROD & PLATE INSTALLATION

(MODERATE ENVIRONMENT) OBSERVE ALL PREVAILING CODES AND REGULATIONS

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ORIGINAL APRIL 29, 2015
REVISIONS:
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TASK
IRRIGATION DETAILS

PROJECT
Magnolia Drive Multi-Use Trail
and Water & Sewer Replacement
from South Meridian St. to
Pontiac Drive

CLIENT
LEON COUNTY FLORIDA'S CAPITAL COUNTY

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

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Magnolia Drive Multi–Use Trail and Water & Sewer Replacement
(from South Meridian St. to Pontiac Dr)
Stormwater Pollution Prevention Plan (SWPPP)

The following narrative of the Stormwater Pollution Prevention Plan contains references to the Standard Specifications for Road and Bridge Construction, the Design Standards, and other sheets of these construction plans. The third sheet of the construction plans (called the Key Map) contains an index to the other sheets. The complete Stormwater Pollution Prevention Plan includes several items: this narrative description, the documents referenced in this narrative, the contractor's approved Erosion Control Plan required by Specification Section 104, and reports of inspections made during construction.

1.0 SITE DESCRIPTION:

1.a. Nature of Construction Activity:
The project includes the installation of a 10'wide, 6"thick concrete sidewalk along the south side of the road that will be used as a multi use trail, as well as replacement of water and sewer infrastructure along Magnolia Drive from South Meridian Street to Pontiac Drive, in Tallahassee, Florida. It is a Joint project for Leon County Public Works and the City of Tallahassee Utilities. The project will involve filling in the existing drainage ditch with pipes, patching and then milling and overlaying the roadway surface, adding curb and gutter, sidewalk, and water and sewer utilities. The project is approximately 3,400 feet in length.

1.b. Sequence of Major Soil Disturbing Activities:

In the Section 104 Erosion Control Plan, the contractor shall provide a detailed sequence of construction for all construction activities. (In addition to the sequence shown on sheet 3 of the plans) The contractor shall follow the sequence of major activities described on sheet 3, unless the contractor proposes a different sequence that is equal or better at controlling erosion and trapping sediment and is approved by the Engineer.

For each construction phase, install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized.

1.c. Area Estimates:

Total site area: 4.4 acres.
Total area to be disturbed: 4.4 acres.

1.d. Runoff Data:

Soils Data: Per the USDA Natural Resources Conservation Service Soil Survey data, the Soils are Orangeburg Fine Sandy Loam.

Outfall Information: The existing roadway drains along the roadway in drainage ditches that drain into a pipe that crosses the road at station 19+50 as shown on the plans. The ditch along the southside of the roadway will be replaced with a perforated pipe/exfiltration trench system that will provide sufficient conveyance capacity, as well as some additional storage capacity to accommodate the additional impervious as shown on the plans.

1.e. Site Map:

The construction plans are being used as the site maps. The location of the required information is described below. The sheet numbers for the plan sheets referenced are identified on the Key Map of these construction plans.

* Drainage Patterns:

* Approximate Slopes: The slopes of the site can be seen in the Typical Section Sheet and the Plan and Profile Sheets.

* Areas Of Soil Disturbance: The areas to be disturbed are indicated on the Plan and Profile Sheets. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.

* Areas Not To Be Disturbed: Essentially the whole project will be disturbed during construction. However, areas outside the silt fences and tree barricades shown on the erosion control sheets will not be disturbed.

* Locations of Temporary Controls: These are shown on the Erosion Control Sheets.

* Areas To Be Stabilized: Temporary stabilization practices are shown in the same location as the temporary controls mentioned above. Permanent stabilization is shown on the Typical Section Sheets and the Plan and Profile Sheets.

* Surface Waters: The only surface water within the site is the ditch just south of the roadway at station 19+50. This is located on the Plan and Profile Sheets and the Typical Section Sheet.

* Discharge Points To Surface Waters: There is only one. This is shown on the Plan and Profile Sheet at station 19+50.

1.f. Receiving Waters:

See item 1.d for the outfall locations and receiving water names.
There are no wetland areas on the project site.

2.0 CONTROLS:

2.a. Erosion And Sediment Controls:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed stabilization and structural practices based on the contractor's proposed Traffic Control Plan.

For each construction phase, install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized.

2.a.1 Stabilization Practices:

In the Section 104 Erosion Control Plan, the contractor shall describe the stabilization practices proposed to control erosion. The contractor shall initiate all stabilization measures as soon as practical, but in no case more than 14 days, in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the Engineer.

Temporary:
* Artificial coverings in accordance with Specification Section 104.

* Sod in accordance with Specification Section 104.

Permanent:
* Asphalt or concrete surface.

* Sod in accordance with Specification Section 570 and detail shown on sheet L5 of these construction plans.

2.a.2 Structural Practices:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed structural practices to control or trap sediment and otherwise prevent the discharge of pollutants from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following, unless otherwise approved by the Engineer.

Temporary:
* Silt fence in accordance with Specification Section 104 and details shown on sheet 91 of these construction plans.

* Sandbags to control erosion and trap silt.

* Inlet protection in accordance with details shown on sheet 91 of these construction plans.

Permanent:

* Sod per detail shown on sheet L5 of these construction plans.

2.b Stormwater Management:

The storm sewer system will be constructed to convey runoff to the existing ditch. The facilities will be permitted by the City of Tallahassee Growth Management department to comply with applicable design standards.

2.c Other Controls:

2.c.1 Waste Disposal:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

* Providing litter control and collection within the project during construction activities.

* Disposing of all fertilizer or other chemical containers according to EPA's standard practices as detailed by the manufacturer.

* Disposing of solid materials including building and construction materials off the project site but not in surface waters, or wetlands.

2.c.2 Offsite Vehicle Tracking & Dust Control:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed methods for minimizing offsite vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

* Covering loaded haul trucks with tarpaulins.

* Removing excess dirt from roads daily.

* Stabilizing construction entrances as needed.

* Using roadway sweepers during dust generating activities such as excavation and milling operations.

2.c.3 State and Local Regulations For Waste Disposal, Sanitary Sewer, Or Septic Tank Regulations:

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed procedures to comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.

2.c.4 Fertilizers and Pesticides:

In the Section 104 Erosion Control Plan, the contractor shall describe the procedures for applying fertilizers and pesticides. The proposed procedures shall comply with applicable subsections of Section 570 of the Specifications.

2.c.5 Toxic Substances:

In the Section 104 Erosion Control Plan, the contractor shall provide a list of toxic substances that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.

2.d.4 Approved State and Local Plans and Permits:

* City of Tallahassee Land Development Code Ordinance No. 14–O–35.

3.0 MAINTENANCE:

In the Section 104 Erosion Control Plan, the contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction. The maintenance plan shall at a minimum, comply with the following.

* Silt Fence: Maintain per Section 104. The contractor should anticipate replacing silt fence on 12 month intervals.

4.0 INSPECTIONS:

Qualified personnel shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.25 inches or greater. To comply, the contractor shall install and maintain rain gages and record the daily rainfall. Where sites have been permanently stabilized, inspections shall be conducted at least once every month. The contractor shall also inspect that controls installed in the field agree with the latest Stormwater Pollution Prevention Plan.

* Points of discharge to waters of the United States.

* Points of discharge to municipal separate storm sewer systems.

* Disturbed areas of the site that have not been finally stabilized.

* Areas used for storage of materials that are exposed to precipitation.

* Structural controls.

* Stormwater management systems.

* Locations where vehicles enter or exit the site.

The contractor shall initiate repairs within 24 hours of inspections that indicate items are not in good working order.

If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the contractor shall provide additional measures, as approved by the Engineer.

5.0 NON–STORMWATER DISCHARGES:

In the Section 104 Erosion Control Plan, the contractor shall identify all anticipated non–stormwater discharges(except flows from fire fighting activities). The contractor shall describe the proposed measures to prevent pollution of these non–stormwater discharges.

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DESIGNED MR
CHECKED WKJ
QC GB
SHEET SWPPP

WILLIAM K. JOHNSON LICENSED NO. 41040 STATE OF FLORIDA PROFESSIONAL ENGINEER

ORIGINAL MAY 4, 2015
REVISIONS:
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TASK
STORMWATER POLLUTION PREVENTION PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

CLIENT
City of Tallahassee Your Own Utilities
LEON FLORIDA'S CAPITAL COUNTY

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

1. THIS TEMPORARY TRAFFIC CONTROL PLAN (TTCP) IS PROVIDED AS AN EXAMPLE OF CONSTRUCTION SEQUENCING AND FOR SPECIFIC REQUIREMENTS FOR THE PROJECT. THE CONTRACTOR HAS THE OPTION TO PREPARE AND SUBMIT AN ALTERNATIVE TTCP TO LEON COUNTY PUBLIC WORKS AND CITY OF TALLAHASSEE UNDERGROUND UTILITIES FOR REVIEW AND ACCEPTANCE BY THE COUNTY AND THE CITY, AT LEAST THIRTY (30) DAYS PRIOR TO BEGINNING ANY WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE OF TRAFFIC AND UTILITY NOTIFICATIONS. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE 2015 FDOT DESIGN STANDARDS, INDEX 600 THROUGH 670, IN CONJUNCTION WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.
3. THE CONTRACTOR SHALL SCHEDULE AND CONDUCT A PRE-CONSTRUCTION CONFERENCE WITH LEON COUNTY PUBLIC WORKS, COT GROWTH MANAGEMENT, CITY OF TALLAHASSEE UNDERGROUND UTILITIES, FDOT, AND ALL OTHER UTILITIES.
4. MAINTENANCE OF TRAFFIC AND PAVEMENT COSTS ASSOCIATED WITH WATER AND SEWER REPLACEMENT SHALL NOT BE PAID FOR WITH FEDERAL FUNDS AND MUST BE TRACKED SEPARATELY. SEE BID DOCUMENTS AND BID FORMS FOR ADDITIONAL INFORMATION.
5. THE ENVIRONMENTAL PERMIT SHALL BE POSTED AT THE JOB SITE IN A CONSPICUOUS PLACE.
6. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PROPERTY OWNERS DURING CONSTRUCTION. THE CONTRACTOR SHOULD REPLACE ALL UTILITIES IN SHORT SEGMENTS TO MINIMIZE PROPERTY ACCESS IMPACTS. PROPERTY OWNERS ALONG MAGNOLIA DRIVE SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF EXCAVATION ADJACENT TO THEIR PROPERTY.
7. ALL ROAD NAME SIGNS, APARTMENT COMPLEX SIGNS AND BUSINESS NAME SIGNS SHALL BE CLEARLY VISIBLE TO TRAFFIC DURING THE CONSTRUCTION PERIOD. EACH BUSINESS AND APARTMENT COMPLEX SHALL BE PROVIDED WITH ONE (1) TEMPORARY SIGN FOR THE DURATION OF THE PROJECT.
8. CONSTRUCTION WORK HOURS ARE PERMITTED FROM 7:30AM TO 7:00PM DURING WEEKDAYS (MONDAY THROUGH FRIDAY). WEEKEND WORK (SATURDAY AND SUNDAY) REQUIRES APPROVAL BY THE COUNTY.
9. THE CONTRACTOR SHALL NOTIFY LOCAL LAW ENFORCEMENT AGENCIES, FIRE STATIONS, SCHOOLS, PUBLIC TRANSPORTATION AGENCIES, RESIDENCES AND APARTMENT COMPLEXES AT LEAST 48 HOURS IN ADVANCE OF DRIVEWAY CLOSURES, LANE CLOSURES AND TRAFFIC PATTERN CHANGES. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS FOR EMERGENCY VEHICLES, MAIL SERVICES AND TRASH SERVICES.
10. ALL TRENCHES MUST BE PROPERLY BACKFILLED AND PATCHED WITH ASPHALT BEFORE LANES ARE REOPENED TO TRAFFIC. REMOVE FROM SERVICE EACH SEGMENT OF WATER OR SEWER MAIN ONCE THE PROPOSED MAIN HAS BEEN INSPECTED AND TESTED.
11. WHEN CONSTRUCTION DROP OFFS ARE GREATER THAN 3 INCHES AND ARE WITHIN THE CLEAR ZONE, SHOULDER TREATMENT SHALL BE ADDED BEFORE THE WORK ZONE IS CONSIDERED INACTIVE. DRIVEWAY ACCESS SHALL BE RETURNED TO AN ACCEPTABLE GRADE AT THE END OF EACH WORK PERIOD.
12. ALL EXISTING AREAS (TO REMAIN) THAT ARE DISTURBED DURING CONSTRUCTION (PAVEMENT MARKINGS, SODDING, CONCRETE S/W, ETC.) SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE PRIOR TO COMPLETION OF THE PROJECT.
13. EROSION CONTROL DEVICES MUST BE IN PLACE PRIOR TO THE START OF CONSTRUCTION TO PREVENT SEDIMENT FROM DISCHARGING WITH RUNOFF. SEE EROSION CONTROL PLAN SHEETS FOR DETAILS.
14. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
15. THE CONTRACTOR SHALL MAINTAIN ADEQUATE STREET LIGHTING AT A LEVEL EQUAL TO OR GREATER THAN EXISTING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION. THE COST ASSOCIATED WITH TEMPORARY STREET LIGHTING SHALL BE INCLUDED IN PAY ITEM 102-1.
16. ALL TEMPORARY DRAINAGE PIPES MUST BE REMOVED AFTER PERMANENT SYSTEMS ARE IN PLACE, UNLESS OTHERWISE NOTED IN THE PLANS.
17. CONSECUTIVE SIDE STREETS SHALL NOT BE CLOSED SIMULTANEOUSLY DURING THE CONSTRUCTION PERIOD.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

18. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND EASILY ACCESSIBLE PAVED OR UNPAVED PATHWAY FOR PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE FOR THE DURATION OF THE CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH FDOT INDEX 660 AND ADA CRITERIA. IF THE PATHWAY LIES WITHIN A TWO (2) MILE WALKING DISTANCE OF PUBLIC AND/OR PRIVATE SCHOOLS THEN THE CONTRACTOR MUST PROVIDE ADEQUATE SUPERVISION AND/OR GUIDANCE TO THE SCHOOL AGED STUDENTS AS THEY TRAVERSE THROUGH THE WORK ZONE. ADDITIONALLY, CLEAR ACCESS MUST BE MAINTAINED AT ALL DESIGNATED CROSSING GUARD LOCATIONS.
19. AT THE END OF EACH WORKDAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6 IN. ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY BARRIER WALL.
20. THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAFFIC WILL BE MAINTAINED ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES. TRAVEL PATH SHALL BE A MINIMUM OF 4' WIDE.

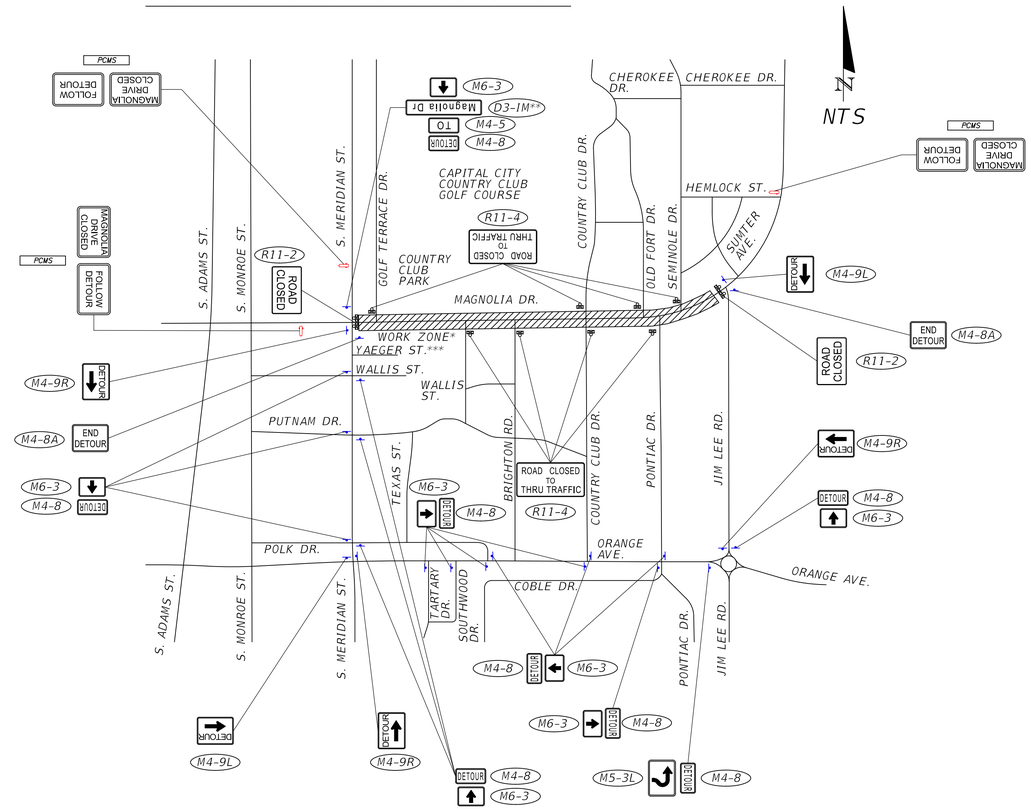
CONSTRUCTION SEQUENCE

1. INSTALL ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) AT EACH END OF THE MAGNOLIA DRIVE PROJECT LIMITS THREE (3) WEEKS PRIOR TO CONSTRUCTION BEGINNING. THE PCMS BOARD SHOULD READ:

MESSAGE 1	MESSAGE 2
MAGNOLIA DRIVE CONST	BEGINS MM/DD

2. INSTALL TREE BARRICADES AND EROSION CONTROL ALONG ALL AREAS TO BE DISTURBED IN SUCH A WAY THAT NO OFFSITE EROSION OR DISTURBANCE OCCURS. SEE GENERAL NOTE #12 ON THE COVER SHEET.
3. PLACE ADVANCE WARNING AND WORK ZONE SIGNS TO PROPERLY CLOSE MAGNOLIA DRIVE IN SEGMENTS ACCORDING TO FDOT DESIGN STANDARDS AND DETOUR PLAN.
4. INSTALL WATER AND SEWER IMPROVEMENTS.
5. INSTALL DRAINAGE IMPROVEMENTS ONCE OTHER UNDERGROUND UTILITIES HAVE BEEN RELOCATED, INCLUDING WATER AND SEWER SERVICE LATERALS.
6. INSTALL MULTI-USE TRAIL IMPROVEMENTS.
7. INSTALL LANDSCAPING PER LANDSCAPE PLANS AND SOD ALL DISTURBED AREAS.
8. MILL AND RESURFACE ENTIRE ROADWAY TO AT LEAST 50 FEET BEYOND ALL PAVEMENT PATCHES.
9. REMOVE ALL SEDIMENT CONTROLS & TREE PROTECTION, ONCE ENVIRONMENTAL INSPECTOR HAS CONFIRMED THAT ALL DISTURBED AREAS HAVE BEEN STABILIZED.
10. PROVIDE RECORD DRAWINGS.
11. TWO (2) WEEKS PRIOR TO FINAL INSPECTION, A GROWTH MANAGEMENT DEPARTMENT CHECKLIST SHALL BE COMPLETED. THE ENVIRONMENTAL INSPECTOR SHALL PROVIDE THE FINAL CHECKLIST AT THE PRE-CONSTRUCTION MEETING.
12. REQUEST A FINAL INSPECTION FROM THE ENVIRONMENTAL INSPECTOR.

MAGNOLIA DRIVE CLOSURE AND DETOUR PLAN



*SEE GENERAL NOTE 6 ON THIS SHEET.

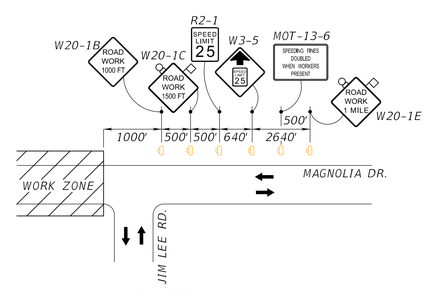
** SHALL HAVE BLACK LEGEND AND BORDER ON AN ORANGE BACKGROUND.

*** CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO APARTMENT COMPLEXES FROM YAEGER ST. SEE CONSTRUCTION DETAILS SHEET.

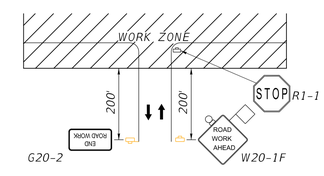
DETOUR NOTES

1. THIS DETOUR IS DESIGNED FOR THE MAIN DETOUR OF MAGNOLIA DRIVE DURING THE CONSTRUCTION OF THE WATER AND SEWER IMPROVEMENTS. THE CONTRACTOR SHALL MINIMIZE THE DURATION OF THE ROAD CLOSURE TO THE GREATEST EXTENT POSSIBLE.
2. THE PORTABLE CHANGEABLE MESSAGES SIGNS (PCMS) ARE INTENDED TO BE PLACED DURING THE ENTIRE DETOUR. THE PCMS LOCATIONS MAY BE ADJUSTED SLIGHTLY TO AVOID CONFLICTS WITH EXISTING FEATURES.
3. ALL WORK ZONE SIGNS, PCMS, AND MODIFICATIONS TO EXISTING SIGNS SHOWN IN THIS DETOUR PLAN ARE APPLICABLE TO DETOUR OPERATIONS ONLY.

ADVANCED WARNING SIGNS



MAGNOLIA DR. APPROACHING JIM LEE RD.



SIDE STREETS APPROACHING WORK ZONES

NOTE: ADVANCE WARNING SIGNS ARE NOT LIMITED TO THE DIAGRAMS SHOWN ON THIS SHEET. FOR ADDITIONAL ADVANCE WARNING SIGN DETAILS, THE CONTRACTOR SHALL REFER TO THE 2015 FDOT DESIGN STANDARDS, INDEX 600 THROUGH 670, IN CONJUNCTION WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS.

EXTREME CAUTION ! - UNDERGROUND GAS AND OVERHEAD ELECTRIC PRESENT IN CONSTRUCTION AREAS. CONTRACTOR MUST USE EXTREME CAUTION DURING ALL CONSTRUCTION ACTIVITIES.

JOB NO. 100041888
DRAWN JRE
DESIGNED JRE
CHECKED WKJ
QC CAS
SHEET M-1

ORIGINAL FEBRUARY 26, 2015
REVISIONS:
1
2
3
4
5

TASK
TEMPORARY TRAFFIC CONTROL PLAN

PROJECT
Magnolia Drive Multi-Use Trail and Water & Sewer Replacement from South Meridian St. to Pontiac Drive

City of Tallahassee
Your Own Utilities™

CLIENT
LEON FLORIDA'S CAPITAL COUNTY

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

USER: EDWA2516 2/26/2015 4:48:20 PM T:\PROJECTS\City of Tallahassee\Magnolia Trail 4078831\38816\CADD\roadway\signs\01.dgn