



Department of Purchasing & Contracting
1300 Commerce Drive, 2nd Floor
Decatur, Georgia 30030
Fax: (404) 371-7006

Date: May 7, 2021

Request for Quotation No. 21-3003751

Maloof Lighting

I. Proposed Term:

Thirty (30) calendar days

II. Attachments:

- A. Scope of Work
- B. Quote Form
- C. Reference Form and Reference Check Release Statement
- D. Bidder Affidavit
- E. Insurance Requirements
- F. Site Drawings

III. Payment Terms:

The County's official payment terms are Net 30.

IV. Scope of Work:

See Attachment A

V. Federal Work Authorization Program:

All qualifying contractors and subcontractors performing work with DeKalb County, Georgia must register and participate in the federal work authorization program to verify the work eligibility information of new employees. In order for a Quotation to be considered, it is mandatory that the Bidder Affidavit, Attachment D, be completed with bidder's quote.

VI. Due Date:

All questions are due to Lola Awonusi, via email at oawonusi@dekalbcountyga.gov on or before 5:00 p.m. EST on Monday, May 10, 2021.

Additional Information/Addenda

The County will issue responses to inquiries and any other corrections or amendments it deems necessary in written addenda issued prior to the due date. Bidders should not rely on any representations, statements, or explanations other than those made in this RFQ or in any addendum to this RFQ. Where there appears to be a conflict between the RFQ and any addenda issued, the last addendum issued will prevail. It is the responsibility of the Bidder to ensure awareness of all addenda issued for this solicitation. Please acknowledge the addenda and submit to the DeKalb County Department of Purchasing and Contracting as requested. Bidders may contact the above listed contact person to verify the number of addenda prior to submission. Addenda issued for this RFQ will be posted on DeKalb County's website, <https://www.dekalbcountyga.gov/informal bids>. Bidder should regularly check the County's website for addenda.

Quotes are due on or before 5:00 p.m. EST on Wednesday, May 12, 2021. Bidder must complete and return the quote form, reference form, bidder affidavit and provide a copy of Bidder's valid business license to DeKalb County by email to the attention of Lola Awonusi at oawonusi@dekalbcountyga.gov.

All quotes are to be provided on Attachment B, Quote Form.

THE COUNTY RESERVES THE RIGHT TO REJECT ANY AND ALL QUOTES, TO WAIVE INFORMALITIES, AND/OR TO RE-ADVERTISE.

Thank you for your interest in doing business with DeKalb County.

Sincerely,


Omolola Awonusi (May 7, 2021 13:00 EDT)

Lola Awonusi
Procurement Agent
Department of Purchasing and Contracting
DeLois Robinson

ATTACHMENT A

Scope of Work

DeKalb County, Georgia is seeking a well-qualified bidder to submit pricing for the installation of lightning systems.

The general scope of services required is, but not necessarily limited to:

- Demo of existing light poles & bases and replace with new Two (2) 10ft.light posts
- Provide & install landscape lighting package
- Install concrete base
- Install lighting contactor & photocell connect per drawings provided (Attachment F)
- Install new irrigation controller (The County will be responsible for providing the irrigation controls, however the irrigation will be scheduled with the awarded vendor)
- Install fully working & operational lighting systems including all conduit & wire terminating at the appropriate electrical panel. The Permanent system is to be tied into panels.
- Provide all switchgear needed

Notes:

- The luminaire and lighting specifications are listed on the Quote form (Attachment B)
- The Bidder's price is to include all material and labor cost.
- All work is to be performed during regular business hours 07:00 – 17:00, Monday – Friday
- The Contractor will be responsible for any damage to new renovated landscaping

ATTACHMENT B**QUOTE FORM**

PRICE SCHEDULE					
ITEM NO.	QUANTITY	SIZE/PN	DESCRIPTION	UNIT PRICE	TOTAL AMOUNT
1	2	P1	Area Light, 10' Pole w/ 1 Luminaire	\$ _____	\$ _____
2	15	P2	Bollard Fixture (approx. 8 will be replaced with wall sconces along brick wall)	\$ _____	\$ _____
3	37	S1	Ground Mount Flood Directional	\$ _____	\$ _____
4	2	S2	Ground Mount Flood Directional	\$ _____	\$ _____
5	4	S3	Ground Mount Flood Directional	\$ _____	\$ _____
6	1	S4	Ground Mount Flood Directional	\$ _____	\$ _____
7	8	S5	Ground Mount Flood Directional	\$ _____	\$ _____
8	23	S6	In grade Luminaire	\$ _____	\$ _____
TOTAL BID AMOUNT					\$ _____

The responder declares that he has carefully examined, RFQ No. **21-3003751, Maloof Lighting**, the Scope of Work contained, and that he proposes and agrees, that if his quote is accepted, to provide the necessary services and furnish all material and labor specified in this RFQ, or necessary to complete the work in the manner therein specified within the time specified, as therein set forth for the following lump sum amount, which sum is hereinafter referred to as "Lump Sum."

Lump Sum Total \$ _____ **\$** _____
(State amount in writing on this line) (In Figures)

ATTACHMENT C

REFERENCE FORM AND REFERENCE CHECK RELEASE STATEMENT

List below at least three (3) references, including company name, contract period, contact name, email address, telephone numbers and project name of individuals who can verify your experience and ability to perform the type of services listed in the solicitation.

Company Name	Contract Period
Contact Person Name and Title	Telephone Number (include area code)
Email Address	
Project Name	

Company Name	Contract Period
Contact Person Name and Title	Telephone Number (include area code)
Email Address	
Project Name	

Company Name	Contract Period
Contact Person Name and Title	Telephone Number (include area code)
Email Address	
Project Name	

REFERENCE CHECK RELEASE STATEMENT

You are authorized to contact the references provided above for purposes of this RFQ.

Signed _____ Title _____

(Authorized Signature of Bidder)

Company Name _____ Date _____

ATTACHMENT D

BIDDER AFFIDAVIT

By executing this affidavit, the undersigned verifies its compliance with O.C.G.A. § 13-10-91, as amended, stating affirmatively that the bidder submitting a bid, contractor, firm or corporation which is contracting with DEKALB COUNTY, GA, a political subdivision of the State of Georgia, has registered with and is participating in a federal work authorization program* [any of the electronic verification of work authorization programs operated by the United States Department of Homeland Security or any equivalent federal work authorization program operated by the United States Department of Homeland Security to verify information of newly hired employees, pursuant to the Immigration Reform and Control Act of 1986 (IRCA), P.L. 99-603, in accordance with the applicability provisions and deadlines established in O.C.G.A. § 13-10-91, as amended]. The affiant agrees to continue to use the federal work authorization program throughout the contract period.

The undersigned further agrees that, should it employ or contract with any subcontractor(s) in connection with the physical performance of services pursuant to this contract with the COUNTY, contractor will secure from such subcontractor(s) similar verification of compliance with O.C.G.A. § 13-10-91, as amended, on the Subcontractor Affidavit form. Contractor further agrees to maintain records of such compliance and provide a copy of each such verification to the COUNTY, within five (5) days from when the subcontractor(s) is retained to perform such service.

BY: _____ Authorized Officer or Agent (Bidder's Name)	_____ Federal Work Authorization Enrollment Date
---	--

_____ Title of Authorized Officer or Agent of Bidder	_____ Identification Number
---	--------------------------------

Printed Name of Authorized Officer or Agent

Company Name & Address (do not include a post office box)

SUBSCRIBED AND SWORN
BEFORE ME ON THIS THE

_____ DAY OF _____, 20__

Notary Public
My Commission Expires: _____

ATTACHMENT E
INSURANCE REQUIREMENTS

IMPORTANT NOTICE

IMPORTANT — PLEASE READ CAREFULLY & FOLLOW INSTRUCTIONS LISTED HEREIN

- I. If the County sends to you notice of Award on this bid, take this form to your insurance agent as this form contains requirements that may be non-standard in the insurance industry.
- II. Instruct your insurance agent that the County's requirements are listed in Section III, and that you *must* comply with these requirements before you may proceed with the work.
- III. Before the starting of any work, the successful contractor must furnish to DeKalb County certificates of insurance from companies doing business in Georgia and acceptable to the County as follows:
 1. Certificates must cover:
 - **Statutory Workers Compensation**
 - **Business Auto Liability Insurance** with a minimum \$500,000 Combined Single Limit/Each Occurrence (Including operation of non-owned, owned, and hired automobiles).
 - **Commercial General Liability Insurance**
 - (1) Each Occurrence - \$1,000,000
 - (2) Fire Damage - \$250,000
 - (3) Medical Expense - \$10,000
 - (4) Personal & Advertising Injury - \$1,000,000
 - (5) General Aggregate - \$2,000,000
 - (6) Products & Completed Operations - \$1,500,000
 - (7) Contractual Liability where applicable
 2. DeKalb County, GA shall be named as Additional Insured under any General Liability, Business Auto and Umbrella Policies using ISO Additional Insured Endorsement forms CG 2010 or its equivalent. Coverage shall apply as Primary and non-contributory with Waiver of Subrogation in favor of DeKalb County, Georgia.
 3. The insurance carrier must have a minimum rating of A or higher as determined by the rating firm A.M. Best.

(Continued)

4. Certificates to contain policy number, policy limits and policy expiration date of all policies issued in accordance with this contract.
5. Certificates to contain the location and operations to which the insurance applies.
6. Certificates to contain successful contractor's protective coverage for any subcontractor's operations. If this coverage is included in General Liability, please indicate on the Certificate of Insurance.
7. Certificates to contain successful contractor's contractual insurance coverage. If this coverage is included in the General Liability, please indicate this on the Certificate of Insurance.
8. Certificates are to be issued, and the successful contractor shall mail insurance documents listed in this form, to:

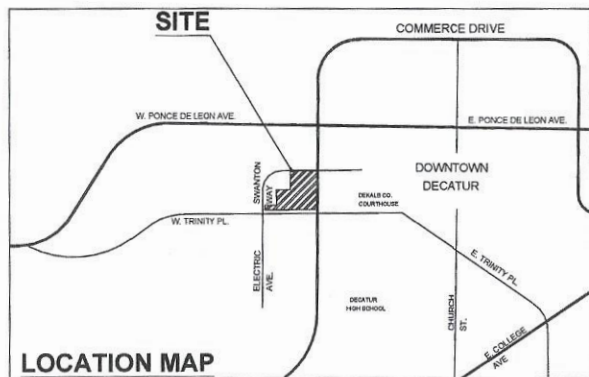
DeKalb County Department of Purchasing and Contracting
The Maloof Center
2nd Floor
1300 Commerce Drive
Decatur, Georgia 30030

9. The successful contractor shall be wholly responsible for securing certificates of insurance coverage as set forth above from all subcontractors who are engaged in this work.

ATTACHMENT F - SITE DRAWINGS

CONSTRUCTION PLANS FOR: DEKALB COUNTY DEPARTMENT OF FACILITIES MANAGEMENT

LANDSCAPE DESIGN RENOVATION 1300 COMMERCE DRIVE - MALOOF BUILDING DEKALB COUNTY, GEORGIA 30030 LAND LOTS 245 & 246, 15TH DISTRICT, CITY OF DECATUR



MICHAEL L. THURMOND

CHIEF EXECUTIVE OFFICER

DEKALB CO. BOARD OF COMMISSIONERS

DISTRICT 1 - NANCY JESTER
DISTRICT 2 - JEFF RADER
DISTRICT 3 - LARRY JOHNSON
DISTRICT 4 - STEVE BRADSHAW
DISTRICT 5 - MEREDA DAVIS JOHNSON
DISTRICT 6 - KATHIE GANNON
DISTRICT 7 - LORRAINE COCHRAN-JOHNSON

DRAWING INDEX

SHEET	DESCRIPTION
C-1	COVER SHEET
BMP-1	BEST MANAGEMENT PRACTICES - BMP PLAN
D-1	DEMOLITION / TREE & SHRUB REMOVAL PLAN
LS-1	KEY PLAN FOR LANDSCAPE
LS-2	LANDSCAPE PLAN
LS-3	LANDSCAPE PLAN
LS-4	LANDSCAPE PLAN
LS-5	PLANT LIST, DETAILS AND NOTES PLAN
IR-1	IRRIGATION PLAN
IR-2	IRRIGATION DETAILS
E100	LIGHTING - ELECTRICAL LEGEND & SPECIFICATIONS
E101	LIGHTING - ELECTRICAL SITE PLAN
E102	LIGHTING - ELECTRICAL DETAILS

CONTACTS:

OWNER

Clyde Stovall, PE
Director of Facilities - Dekalb Co. Govt.
1300 Commerce Drive, Rm. 300
Decatur, GA 30030
404-687-4002

PROJECT MANAGER

Kevin Buford - Project Manager
Decalb County Government
1300 Commerce Drive, Rm. 300
Decatur, GA 30030
470-372-8775

LANDSCAPE ARCHITECT

TJ Schell, LLC
Teresa Eldredge, PLA, ISA
2985 Gordy Parkway, Ste. 422
Marietta, GA 30066
770-361-2319

LAND SURVEYOR

Atwell, LLC
Clyde Eldredge, RLS
1800 Parkway Place, Suite 700
Marietta, GA 30067
678-274-8043

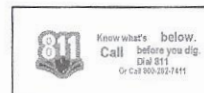
IRRIGATION CONSULTANT

ICS, Inc.
Bob Scott, ASIC, CID, CLIA
PO Box 80610
Conyers, GA 30013
770-929-0884

LIGHTING CONSULTANT

Newcomb & Boyd
Richard Dozier, PE
303 Peachtree Ctr. Ave. NE
Atlanta, GA 30303-1277
404-730-8494

72-HOUR NOTICE IS REQUIRED TO
GEORGIA 811 UTILITY PROTECTION
CENTER BEFORE ANY PLANNED
DIGGING. WWW.GEORGIA811.COM



RELEASED FOR BIDDING



TJ Schell
1885 Gordy Parkway
Suite 422
Marietta, Georgia 30066
Phone: (770) 361-2319
LANDSCAPE ARCHITECT
CERTIFIED ARBORIST



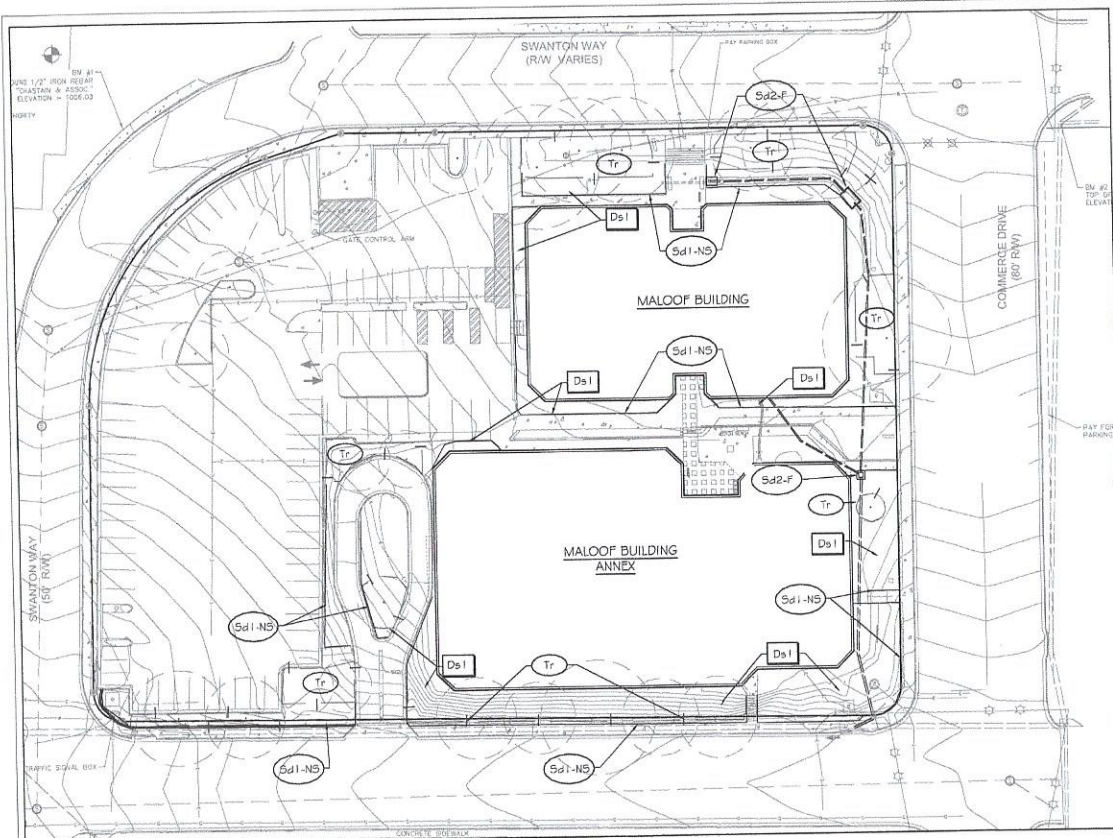
MANUEL MALOOF COMPLEX
LANDSCAPE RENOVATIONS
1300 COMMERCE DRIVE, DECATUR GA, 30030
DEKALB COUNTY, GEORGIA

COVER
SHEET

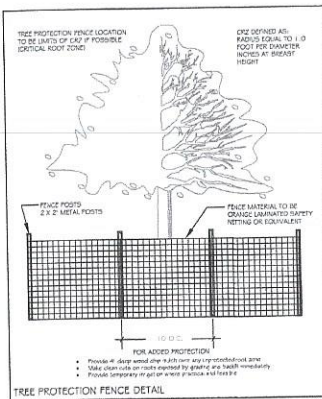
BY	THE	DATE	REVISION

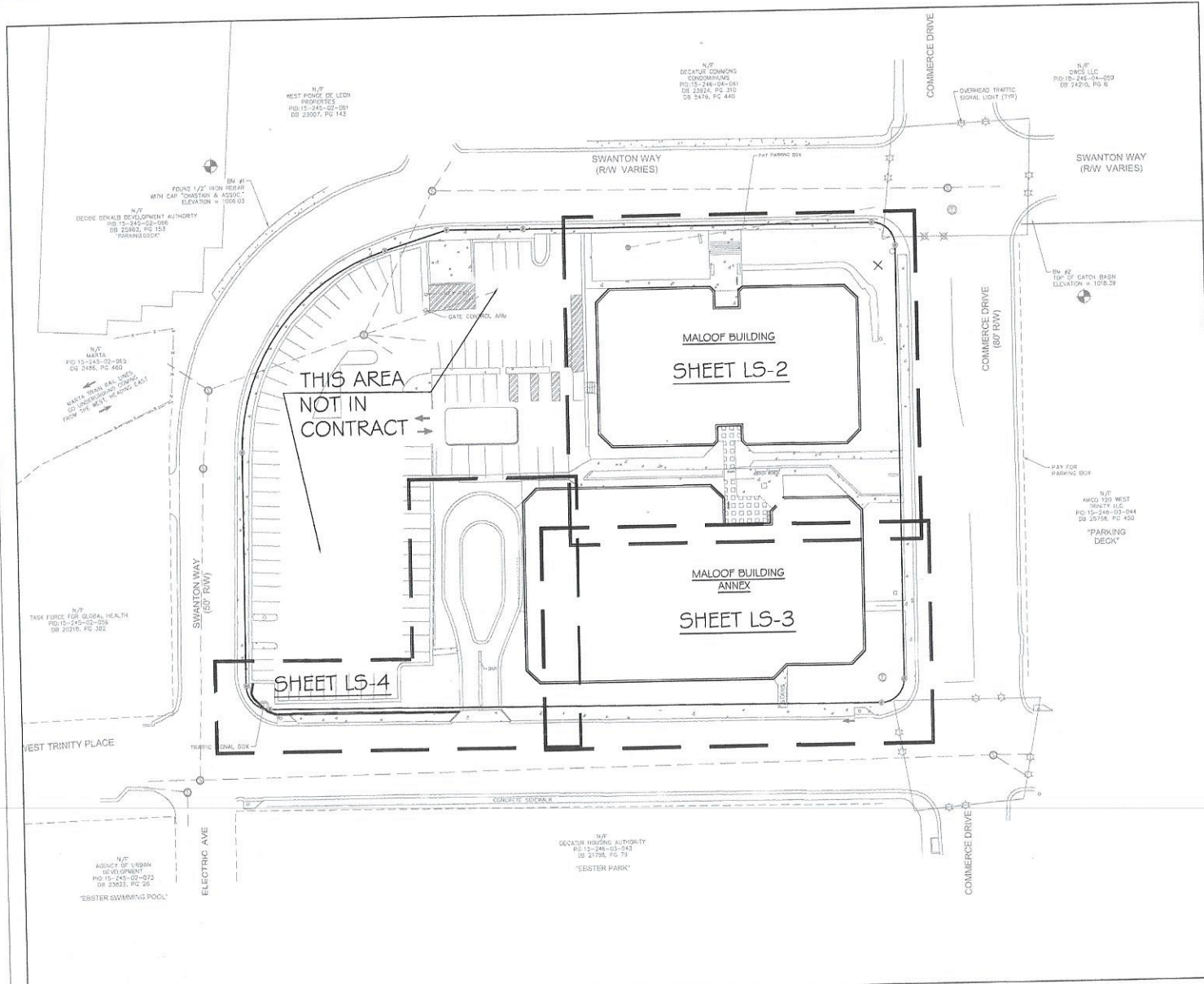
JOB NO. 2017-1007
SCALE: AS NOTED
DATE: 9.23.19
DRAWN BY: TSC
SHEET No. 1 OF 13

C-1

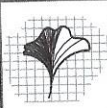
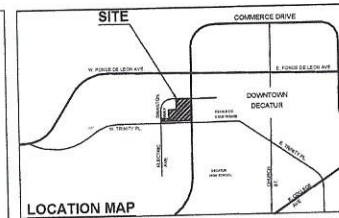


BMP PLAN - 1"=30'





KEY PLAN - 1" = 30'



TJ Schell

3905 Gordy Parkway
Suite 400
Marietta, Georgia 30068
Phone: (770) 364-3318

LANDSCAPE ARCHITECT
CERTIFIED ARCHITECT

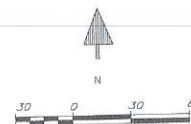


MANUEL MALOOF COMPLEX
LANDSCAPE RENOVATIONS
1300 Commerce Drive, Decatur, GA 30030
DEKALB COUNTY, GEORGIA

KEY PLAN
LANDSCAPE

BY	THE

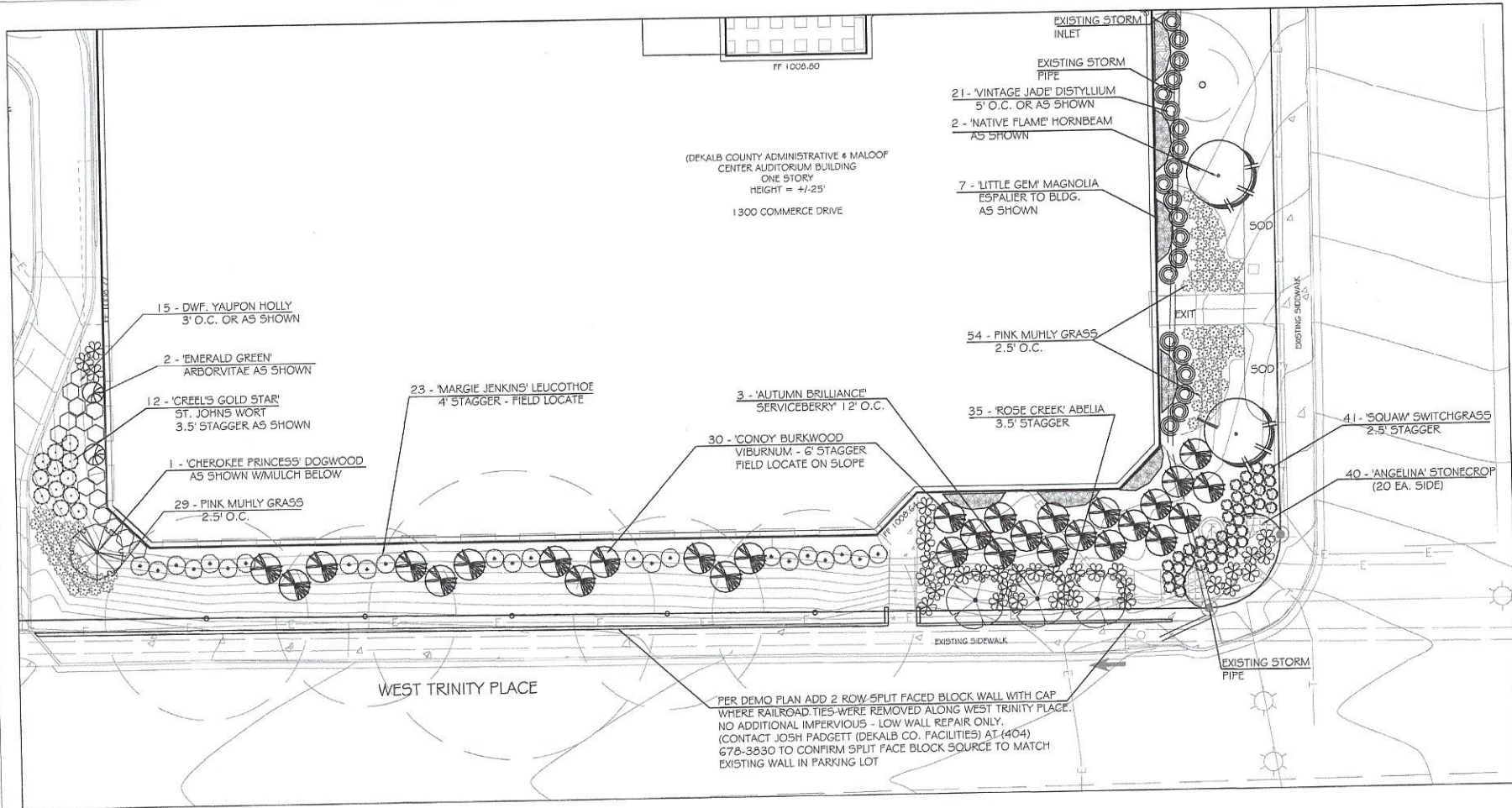
DEKALB COUNTY CONTACT:
KEVIN RUFORD
FACILITIES DEPUTY DIRECTOR
470-372-8778



RELEASED FOR BIDDING

JOB NO: 2017-1007
SCALE: AS NOTED
DATE: 8.23.19
DRAWN BY: JTS
SHEET No. 4 OF 13

LS-1



LANDSCAPE PLAN

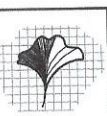
PER DEMO PLAN ADD 2 ROW SPLIT FACED BLOCK WALL WITH CAP WHERE RAILROAD TIES WERE REMOVED ALONG WEST TRINITY PLACE. NO ADDITIONAL IMPERVIOUS - LOW WALL REPAIR ONLY. (CONTACT JOSH PADGETT (DEKALB CO. FACILITIES) AT (404) 678-3830 TO CONFIRM SPLIT FACE BLOCK SOURCE TO MATCH EXISTING WALL IN PARKING LOT

DEKALB COUNTY CONTACT:
KEVIN BUDRO
FACILITIES DISPLAY DIRECTOR
470-372-0775

NOTE:
SEE SHEET BMP - I
FOR TREE
PROTECTION FENCE
LOCATIONS

Know what's below.
Call before you dig.
Call 811
Or Call 800-368-5871

RELEASED FOR BIDDING



TJ Schell
8880 Gordy Parkway
Suite 450
Marietta, Georgia 30066
Phone: (770) 861-3518
LANDSCAPE ARCHITECT
CERTIFIED ASSOCIATE



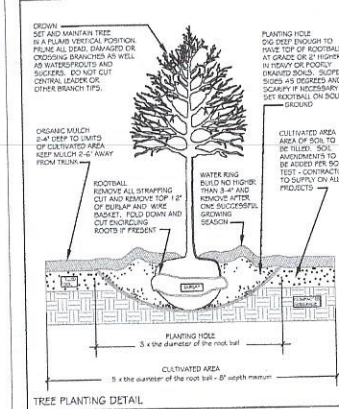
MANUEL MALOOF COMPLEX
LANDSCAPE RENOVATIONS
1300 COMMERCE DRIVE, DECATUR GA, 30030
DEKALB COUNTY, GEORGIA

LANDSCAPE
PLAN

BY	THE
1	

JOB NO: 2017-1007
SCALE: AS NOTED
DATE: 8.23.19
DRAWN BY: TJC
SHEET No. 6 OF 13

LS-3



2. Trees, shrubs, groundcover, sod, seed, ornamental grasses and any other planted materials: Maintenance shall begin immediately after each plant is planted and shall continue until all plants are accepted by the Owner. The quantities shown in the plant schedule are solely for information of the contractor. The contractor shall verify the quantities shown in the plant schedule with the quantities shown on the planting plan. All differences in the quantities shall be brought to the attention of the Landscape Architect for clarification.
3. Do not scale from the drawing.
4. Final locations of all plant material shall be subject to the approval of the Owner's representative. After flagging plant locations and prior to installation, the Contractor shall notify the Owner's representative for inspection. Site adjustment of planting design and relocation of plant materials installed prior to Owner's representatives approval shall be done without additional cost or penalty to Owner.
5. All plant materials shall conform with the latest edition of "American Standards for Nursery Stock" by the American Nursery and Landscape Association. All plant material shall meet or exceed the specifications of the Federal, state and county laws requiring inspection for disease and insect control. Botanical names shall take precedence over common names.
6. Label at least one plant of each species with a securely attached water-proof tag bearing legible designation of Botanical and Common name for inspection.
7. All planting pits shall be free of rocks, gravel and other debris. All planting pits shall be prepared in accordance with the planting details.
8. Plant quality: All plants shall be sound, free of disease or pests and shall have a healthy normal root system.
9. No substitution of plant species or variety shall be made without prior written permission from the Landscape Architect.
10. Maintenance of plants shall include, but not necessarily be limited to, watering, spraying, mulching, pruning, mowing, fertilizing, etc. or other activities as directed by the Owner's representative.
11. Final acceptance shall be granted by the Owner's representative upon completion of the entire project. The Contractor shall promptly make all replacements before, during and at the end of the guarantee period as directed by the Owner's representative.
12. All plant material which dies, turns brown, or deloliates both prior to the final acceptance of the work and during the guarantee period shall be promptly removed from the site and replaced with material of the same species, variety, quantity, size and meeting all plant schedule specifications.
13. Burlap material on balled and burlapped plants shall be the type which will decay within two years (no synthetics, plastic, nylon, treated or other non-natural types will be allowed). After setting balled and burlapped plants in the planting pit, all binder twine shall be cut and the burlap removed from the top $\frac{1}{2}$ (one-third) of the rootball.
14. All shrub, groundcover, tree ring and perennial bed areas shall be top dressed with a minimum depth of 2-3" of compacted mulch. The mulch shall be free from mold, sticks, cones, weeds and other debris. Compaction of the mulch shall occur naturally over a two week period during which at least one significant rainfall has occurred. Additional mulch shall be placed in order to maintain the minimum depth until date of final acceptance.
15. Contractor shall spray trees and shrubs with anti-desiccant prior to transplanting and transporting if foliage is present. All plant material must be protected from wind by tarpaulin during shipment.
16. The Owner's representative reserves the right to reject at any time until the end of the guarantee period any and / or all plant material that does not meet the specifications as set forth here and in the plant schedule.
17. All plant materials shall be Grade A or better and planted as per the plant list, details and comments/notes.
18. All plant materials (including sod) shall be properly watered immediately after installation. Water shall be applied at a rate that will completely saturate the rootball/roots regardless of weather conditions. If the height of the rootball is 24", then the plant shall be watered to a depth of 24".
19. Contractor SHALL install irrigation plan as designed.

15-5

RELEASED FOR BIDDING

GENERAL NOTES

- ALL MAINLINES TO HAVE A MINIMUM OF 12" OF COVER (CLASS 200 PVC PIPE, CLASS 200 PVC FOR 4" AND LARGERS).
- ALL LATERAL AND SUB MAIN PIPE TO HAVE A MINIMUM OF 12" OF COVER (CLASS 200 PVC PIPE).
- NO ROCKS, BOLLERS, OR OTHER EXTRANEIOUS MATERIALS TO BE USED IN BACKFILLING OF TRENCH.
- ALL PIPE TO BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS.
- ALL TRENCHING JOINTS TO BE COATED WITH TEFLON TAPE OR LIQUID TEFLON.
- ALL LINES TO BE THOROUGHLY FLUSHED BEFORE INSTALLATION OF SPRINKLER HEADS.
- SPRINKLER AND RELATED EQUIPMENT TO BE INSTALLED AS PER DETAILS.
- ALL ELECTRICAL JOINTS TO BE MADE USING WATERPROOF CONNECTIONS AS SHOWN ON DETAILS.
- ALL EQUIPMENT NOT SPECIFIED IN THE LEGEND SHALL BE DETERMINED AND FURNISHED BY THE CONTRACTOR.
- NO ELECTRICAL CONNECTIONS SHALL BE MADE IN THE FIELD EXCEPT AT A VALVE CONTROL BOX OR ANOTHER VALVE BOX SPECIFICALLY FOR CONNECTIONS.
- ANY DISCREPANCY BETWEEN THIS SHEET AND OTHERS IN THIS SET MUST BE REFERRED TO THE IRRIGATION CONSULTANT BY THE CONTRACTOR FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- ALL TWO-WIRE CONTROL WIRES SHALL BE #14-2 MAX CABLE, INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
- CONTRACTOR TO BE RESPONSIBLE FOR PROPER COVERAGE OF AREAS TO BE WATERED, I.E. ADJUST HEADS WITH INSUFFICIENT COVERAGE DUE TO BLOCKAGE BY EXISTING OR PROPOSED SITE FEATURES.
- CONTRACTOR TO REFER TO LANDSCAPE PLAN TO KEEP SPRINKLER EQUIPMENT AND ACCESSORY MATERIAL FROM INTERFERING WITH PROPER PLANTING, I.E. VERIFY ROOT BALL SIZE FOR PLANTING.
- CONTRACTOR SHALL INSTALL EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX (W/WRAP AROUND 3/4" PIPE 12 TIMES).
- CONTRACTOR TO UTILIZE APPROPRIATE AUTOMATIC DRAIN DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
- ALL SPRINKLERS TO BE INSTALLED AS DETAILED ON PLANS.
- CONTRACTOR SHALL UTILIZE VALVE ID TAGS ON ALL REMOTE CONTROL VALVES.
- 24 VOLT WIRES SHALL BE COLOR CODED PER SEPARATE WIRE RUNS.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED EQUIPMENT FOR POWER SUPPLY AND VALVE OUTPUT WITH GROUNDING.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDED PAGES WIRE GROUND PLATE ASSEMBLY.
- CONTRACTOR SHALL INSTALL MANUFACTURERS' RECOMMENDATION ON FULLY GROUND AND LIGHTNING PROTECTION.
- CONTROLLER GROUNDING MUST BE AS PER RAIN BIRD WIRE GROUNDING REQUIREMENTS.
- ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR TO OWNER:
 - TWO WRENCHES FOR DISASSEMBLING AND ADJUSTING EACH TYPE OF SPRINKLER HEADS AND VALVES SUPPLIED.
 - TWO KEYS FOR EACH OF THE AUTOMATIC CONTROLLERS.
 - TWO QUICK COUPLER KEYS WITH MATCHING HOSE SWIVELS.
- SYSTEM IS DIAGRAMMATIC TO IMPROVE CLARITY. ALL MAINLINE PIPING, ELECTRICAL VALVES AND WIRING ARE TO BE INSTALLED IN LANDSCAPE AREAS AND WITHIN PROPERTY BOUNDARIES. CONTRACTOR SHALL REFERENCE THE LANDSCAPE PLAN PRIOR TO THE INSTALLATION OF PIPING TO AVOID CONTACT WITH PLANT MATERIALS EXISTING OR NEW.
- CONTRACTOR TO ADD EXTENSION RISER TO POP-UP HEADS WHEN NEEDED FOR PROPER COVERAGE.
- CONTRACTOR SHALL INSTALL SPRINKLER EQUIPMENT 12" FROM FOUNDATIONS. ALSO INSTALL SPRINKLERS 4" FROM CURBS OR WALKS.
- PRIOR TO BID IRRIGATION CONTRACTOR SHALL VERIFY RIGHT-OF-WAY AND BACKFLOW REQUIREMENTS. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS CONTRACTOR SHALL NOTIFY CONSULTANT OF ANY CHANGES FROM PLANS AND SPECIFICATIONS.
- IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER AND LANDSCAPE ARCHITECT WITH A REPRODUCIBLE CROSS MEASURED AS-BUILT DRAWING OF THE INSTALLED IRRIGATION SYSTEM IN AUTOCAD 2010 FORMAT BEFORE FINAL ACCEPTANCE.
- A 1-YEAR WARRANTY PERIOD SHALL BE PROVIDED ON SYSTEM AFTER SUBSTANTIAL COMPLETION IS ACCEPTED. START UP AND ADJUSTING OF SYSTEM IN SPRING TIME SHALL BE INCLUDED IN WARRANTY.
- PRIOR TO BID, CONTRACTOR SHALL VERIFY THAT ALL MATERIALS, INSTALLATION PARAMETERS AND OPERATIONS CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. NO LATER THAN FIVE DAYS BEFORE BID SUBMITTALS, CONTRACTOR SHALL NOTIFY IRRIGATION CONSULTANT/DESIGNER OF ANY CHANGES REQUIRED DUE TO CURRENT CODES OR ORDINANCE DISCREPANCIES. IF CONTRACTOR DOES NOT COMPLY TO THIS NOTIFICATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY INSTALLATION CHANGE AND REVISION COSTS FOR NON-COMPLIANCE.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR MUST COMPLETE 2 PRESSURE TESTS OF THE IRRIGATION SYSTEM MAINLINE (BOTH TO SHOW NO DROP IN PRESSURE DURING DURATION OF TEST):
 - 2 HOUR PRESSURE TEST AT 1.5 TIMES THE SYSTEM STATIC PRESSURE
 - 24 HOUR PRESSURE TEST AT THE SYSTEM STATIC PRESSURE
- IRRIGATION INSTALLATION CONTRACTOR SHALL PROVIDE OWNER WITH A COLOR-CODED ZONES DIAGRAM PLUS A 1/2"X11" LAMINATED SHEET(S) TO IDENTIFY CONTROLLER STATION TO THE CONTROL VALVE NUMBER FOR EACH CONTROLLER, TO BE LOCATED IN ADHESIVE POUCH ATTACHED INSIDE OF CONTROLLER(S).

SPECIAL NOTE:
INSTALLATION CONTRACTOR SHALL BE RESPONSIBLE TO STAKE ALL PROPOSED TRENCH LINES AT NEAR EXISTING TREES FOR REVIEW AND APPROVAL BY OWNER BEFORE ANY TRENCHING MAY OCCUR. OWNER MAY DIRECT CONTRACTOR TO HAND DIG OR UTILIZE AIR SPIRE FOR TRENCHING IN THOSE LOCATIONS.

IRRIGATION LEGEND

- 1" WATER METER AND 1-1/2" REDUCE PRESSURE ASSEMBLY BACKFLOW PREVENTER.** SYSTEM REQUIRES 30 GPM @ 70 PSI. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE SYSTEM REQUIREMENTS AT SITE BEFORE STARTING CONSTRUCTION.
- NOTE:** DOMESTIC WATER TIE-IN, WATER METER AND BACKFLOW PREVENTER TO BE PURCHASED AND INSTALLED BY THE OWNER WITH OTHERS (UNDER ANOTHER SERVICE CONTRACTOR). IRRIGATION CONTRACTOR TO AFTER THAT SERVICE INSTALLED BY OTHERS.
- WINTERIZATION ASSEMBLY, DETAIL-L.**
- RAIN BIRD ESP-LXD CONTROLLER.** 50 TOTAL STATIONS, 2-WIRE/DECODER BASED MODULAR CONTROLLER. FOUR PROGRAMS, PLASTIC WALL MOUNTED. DETAIL-L.K. IRRIGATION CONTRACTOR SHALL ALSO INSTALL A WIRELESS RAIN/FREEZE SENSOR FOR CONTROLLER.
- CONTROLLER SHALL BE SET UP FOR ETHERNET COMMUNICATION.** MUST INCLUDE NOC-BN ETHERNET COMMUNICATION CABLE. WILL REQUIRE ETHERNET CONNECTION AT CONTROLLER AND STATIC IP ADDRESS. INSTALLATION CONTRACTOR MUST BE RESPONSIBLE TO INCLUDE ETHERNET CONNECTION, COMMUNICATION CARD AND STATIC IP ADDRESS.
- SYSTEM WILL BE SET UP TO UTILIZE RAIN BIRD IQ CLOUD SERVICE.** CONTRACTOR SHALL BE RESPONSIBLE TO WORK WITH OWNER AND CONTROLLER MANUFACTURER TO ENSURE THAT ALL CONNECTIONS ARE MADE AND THAT CLOUD SERVICE IS OPERABLE BEFORE FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE TO INCLUDE ALL EQUIPMENT AND ENSURE THAT SERVICE IS ESTABLISHED AND PAID FOR FOR 1 YEAR.
- IRRIGATION MASTER VALVE.** RAIN BIRD 150-PSI-PPS. MASTER VALVE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS FOR TWO-WIRE AND IQ INSTALLATION (UTILIZING 10-20 TUP DECODER), TO BE INSTALLED IN 12" RECTANGULAR CARSON VALVE BOX. DETAIL-N.
- IRRIGATION FLOW SENSOR.** RAIN BIRD F510P. FLOW SENSOR TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS FOR TWO-WIRE AND IQ INSTALLATION (UTILIZING 50-20 TUP SENSOR DECODER). TO BE INSTALLED IN 12" RECTANGULAR CARSON VALVE BOX. DETAIL-N.
- NOTE:** MASTER VALVE AND FLOW SENSOR MUST BE INSTALLED AS PER MANUFACTURERS' SPECIFICATIONS INCLUDING MEETING MINIMAL STRAIGHT LINE LENGTHS UPSTREAM AND DOWNSTREAM OF COMPONENTS.
- RAIN BIRD 150-PSI-PPS PLASTIC ELECTRIC REMOTE CONTROL VALVE.** 1-1/2" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, MOUNTED WITH RAIN BIRD SINGLE STATION DECODER (FD-1011UP). DETAIL-A.
- RAIN BIRD 150-PSI-PPS PLASTIC ELECTRIC REMOTE CONTROL VALVE.** 1" SIZE, MOUNTED WITH SCH 80 PVC TRUE UNION BALL VALVE WITH PRESSURE REGULATION DEVICES, MOUNTED WITH RAIN BIRD SINGLE STATION DECODER (FD-1011UP). DETAIL-A.
- RAIN BIRD 180S-SAM, 6" POP-UP LAWN SPRAY SPRINKLER.** 12" RADIUS, FULL-2.0 GPM, HALF-1.0 GPM, QUARTER-0.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 180S-SAM, 6" POP-UP LAWN SPRAY SPRINKLER.** 15" RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 180S-SAM, 6" LAWN POP-UP SIDE STRIP SPRAY SPRINKLER.** 9" X 18" RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 180S-SAM, 6" LAWN SIDE STRIP SPRAY SPRINKLER.** 4" X 30" RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 180S-SAM, 6" LAWN END STRIP SPRAY SPRINKLER.** 4" X 15" RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1812-SAM, 12" H-POP SHRUB SPRAY SPRINKLER.** 15" RADIUS, FULL-4.0 GPM, HALF-2.0 GPM, QUARTER-1.0 GPM, THREE QUARTER-3.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1812-SAM, 12" H-POP SHRUB SPRAY SPRINKLER.** 12" RADIUS, FULL-2.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1812-SAM, 12" H-POP SHRUB SIDE STRIP SPRAY SPRINKLER.** 9" X 18" RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1812-SAM, 12" H-POP SHRUB SIDE STRIP SPRAY SPRINKLER.** 4" X 30" RADIUS, 1.5 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD 1812-SAM, 12" H-POP SHRUB END STRIP SPRAY SPRINKLER.** 4" X 15" RADIUS, 1.0 GPM, 30 PSI. DETAIL-C.
- RAIN BIRD #5 QUICK COUPLING VALVE 1" SIZE.** CONTRACTOR TO SUPPLY TWO QCV KEYS AND MATCHING HOSE SWIVELS. DETAIL-B.
- SCH 80 PVC TRUE UNION BALL VALVE, SIZED SAME AS MAINLINE.** MOUNTED IN CARSON VALVE BOX. DETAIL-F.
- MAINLINE PIPE:** 1-1/2" SIZE IF NOT NOTED, CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS.
- IRRIGATION SLEEVE:** CLASS 200 PVC. SIZE NOTED ON PLAN. DETAIL-H.
- LATERAL LINE PIPE:** CLASS 200 PVC SOLVENT WELD PIPE UTILIZING SCH 40 PVC SOLVENT WELD FITTINGS. SIZE NOTED.
- 3" ELECTRICAL CONDUIT SLEEVE.**

NOTES:

- ALL SPRINKLER TO BE MOUNTED ON MANIFOLDS OR UNITIZED SWING JOINTS (AS SPECIFIED ON DETAILS).
- CONTRACTOR TO UTILIZE A AUTOMATIC DRAIN CHECK VALVE DEVICE WHERE LOW HEAD DRAINAGE MAY OCCUR.
- ALL TWO-WIRE CABLE TO BE MINIMUM SIZE OF 14-2 MAXI CABLE.
- ALL TWO-WIRE CABLE TO BE INSTALLED IN 1" SCH 40 PVC ELECTRICAL CONDUIT.
- ALL ELECTRICAL CONDUITS OPENINGS TO BE FOAM SEALED.
- ALL WIRE SPLICES TO BE MADE WITH 3M DRYLOK-4 CONNECTORS MOUNTED IN A MINIMUM OF 10" CARSON VALVE BOX.
- ALL PIPING AND WIRING UNDER HARDTOPS WILL BE IN CLASS 200 PVC PIPE SLEEVE.
- ESP-1 SURGE ARRESTORS SHALL BE INSTALLED EVERY 300' OR EVERY 6 DECODERS (WHICHEVER IS SHORTER) ALONG TWO-WIRE PATH. ESP-1 SURGE ARRESTORS SHALL ALSO BE INSTALLED AT ALL TERMINAL ENDS OF TWO-WIRE CABLE PATHS (STAR CONFIGURATION). REFER TO DETAIL-M.
- INSTALLATION CONTRACTOR SHALL ADHERE TO ALL MANUFACTURER SPECIFICATIONS FOR TWO-WIRE CONTROL SYSTEM INSTALLATION (WIRE SIZING, WIRE LENGTH OF RUNS, GROUNDING, ETC).

TYPICAL VALVE INDICATOR

28.5
10
12

GALLONS PER MIN.
STATION NUMBER
VALVE SIZE

30 0 30 60



Know what's below.
Call before you dig.
811
Or call 800-368-5811



JOB NO.
SCALE:
DATE: 8.11.19
DRAWN BY: JCS
SHEET No.
IR-1

MANUEL MALOOF COMPLEX
1300 Commerce Drive, Decatur, GA 30034
DEKALB COUNTY, GEORGIA

IRRIGATION
PLAN
100%
LANDSCAPE

TJ Schell
2050 Gordy Parkway
Suite 402
Marietta, Georgia 30066
Phone: (770) 581-0319
LANDSCAPE ARCHITECT
CERTIFIED ARBORIST

ELECTRICAL LEGEND


RACEWAYS	
	RACEWAY CONCEALED IN FLOOR OR UNDERGROUND.
	RACEWAY CONCEALED IN CEILING CAVITY OR WALL.
	RACEWAY HOMERUN TO PANEL, ONE ARROWHEAD PER CIRCUIT.
	RACEWAY TURNED UP.
	RACEWAY TURNED DOWN.
WIRES AND CABLES	
	3 WIRES #12 AWG IN CABLE OR CONDUIT, EXCLUDING GROUNDING CONDUCTOR. NOTE: NUMBER OF CROSS HATCHES INDICATES NUMBER OF #12 AWG CONDUCTORS, LESS GROUNDING CONDUCTOR. SHORT CROSS HATCH = PHASE CONDUCTOR. LONG CROSS HATCH = NEUTRAL. NO CROSS HATCHES INDICATES 2 #12 AWG EXCLUDING GROUNDING CONDUCTOR IN CABLE OR CONDUIT.
LUMINAIRES	
IA	PEDESTRIAN POLE LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
OA	LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
SA	SPOTLIGHT LUMINAIRE. LETTER INDICATES LUMINAIRE TYPE. SEE SCHEDULE.
ABBREVIATIONS	
ARCH	ARCHITECT/ARCHITECTURAL
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
EC	EMPTY CONDUIT
EX	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OCP	OVERCURRENT PROTECTION
PH OR #	PHASE
PNL	PANEL
REC	RECEPTACLE
REL	RELOCATE
REM	REMOVE
SPEC	SPECIFICATION
UG	UNDERGROUND
WP	WEATHERPROOF

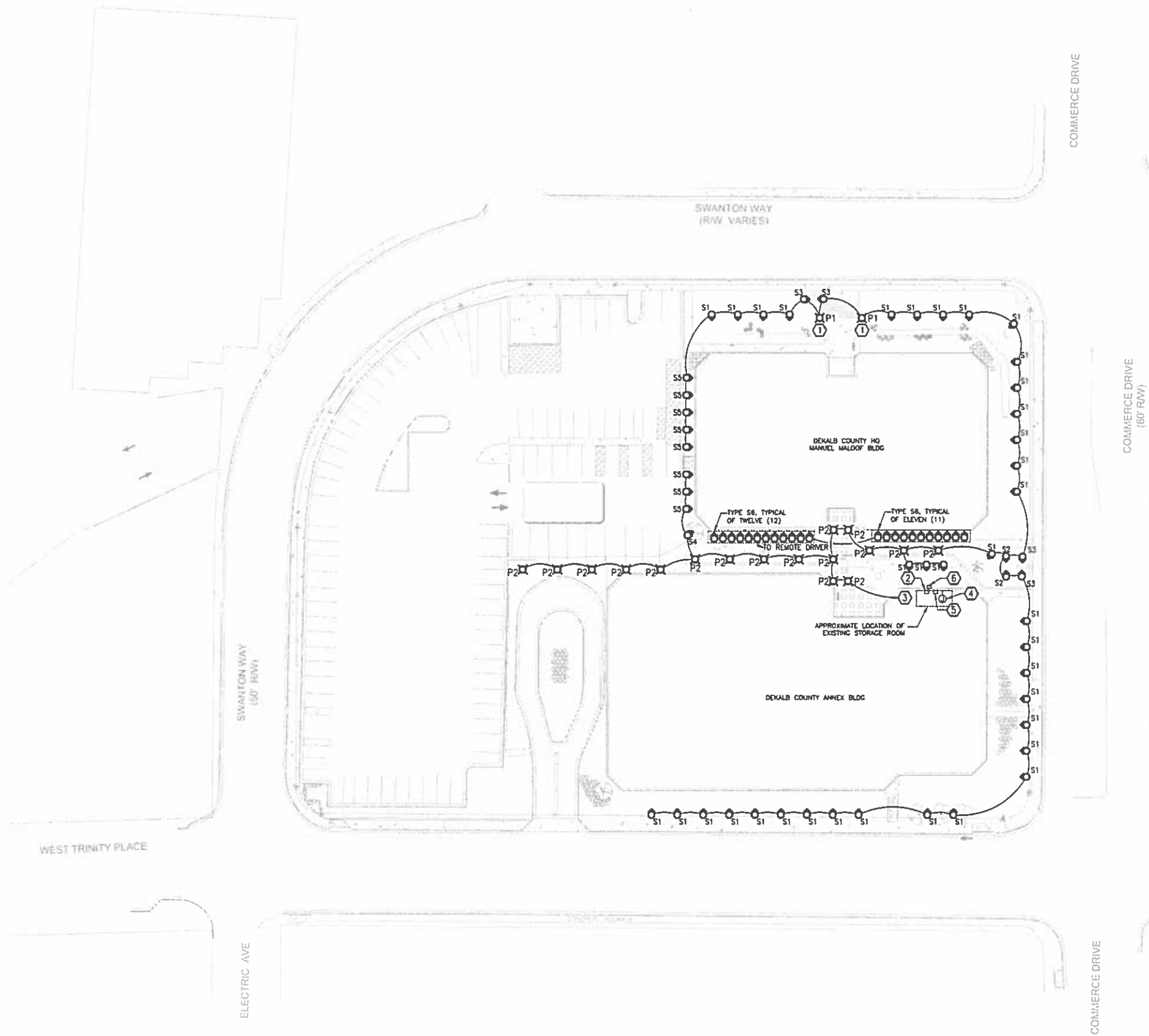
ELECTRICAL SPECIFICATIONS

- A. GENERAL:
1. COMPLY WITH PROVISIONS OF NFPA 70-2017 AND LOCAL CODES. LOCAL CODES AND REGULATIONS SHALL GOVERN IN CASE OF CONFLICT.
 2. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE OR MAINTENANCE.
 3. OPENINGS THROUGH FIRE RATED FLOORS AND PARTITIONS SHALL BE SEALED WITH FIRE RATED SEALANT AFTER INSTALLATION OF RACEWAYS IN A MANNER TO MAINTAIN THE FIRE RATING OF THE SEPARATION.
 4. THE EXISTING INSTALLATION SHALL REMAIN EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED.
 5. PERFORM ALL WORK NECESSARY TO INTERCONNECT THE NEW WORK WITH THE EXISTING WORK AND TO ADAPT THE EXISTING WORK TO THE CHANGES IN THE BUILDING AND THE SYSTEM.
 6. COORDINATE THE INSTALLATION WITH THE STRUCTURE, ARCHITECTURE, AND WORK OF OTHER TRADES TO ELIMINATE CONFLICTS.
 7. ELECTRICAL MATERIALS SHALL BE NEW AND LISTED BY THE UNDERWRITERS' LABORATORIES, INC. WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THIS AGENCY.
 8. SHOP DRAWINGS AND CUTS AND/OR DATA TO BE SUBMITTED SHALL INCLUDE THOSE ON THE FOLLOWING ITEMS OF EQUIPMENT OR MATERIALS:
- LIGHTING CONTROLS.
LUMINAIRES.
- E. RACEWAYS:
1. CONDUIT SIZES REFER TO THE STANDARD TRADE SIZES, ARE FOR IDENTIFICATION PURPOSES ONLY, AND ARE NOT ACTUAL DIMENSIONS.
 2. WIRES SHALL BE INSTALLED IN RACEWAYS UNLESS OTHERWISE SPECIFIED.
 3. RACEWAYS SHALL BE RIGID HOT-DIP GALVANIZED RIGID STEEL CONDUIT FOR EXPOSED WORK WHERE REQUIRED BY CODE.
 4. CONCEALED RIGID RACEWAYS SHALL BE ELECTRIC METALLIC TUBING.
 5. CONNECTORS AND COUPLINGS FOR RIGID CONDUIT SHALL BE THREADED GALVANIZED STEEL. INSULATED BUSHINGS SHALL BE INSTALLED ON RIGID CONDUIT CONNECTORS IN CABINETS, OUTLET BOXES AND PULL BOXES.
 6. UNDERGROUND EXTERIOR RACEWAYS SHALL BE RIGID POLYVINYL CHLORIDE, HIGH IMPACT, SCHEDULE 40, UNLESS OTHERWISE INDICATED.
 7. WHERE AN UNDERGROUND CONDUIT ENTERS THE BUILDING THROUGH A NONWATERPROOFED WALL OR FLOOR, PROVIDE A SLEEVE MADE OF SCHEDULE 40 GALVANIZED PIPE. THE SPACE BETWEEN THE CONDUIT AND THE SLEEVE SHALL BE FILLED WITH PLASTIC EXPANDABLE COMPOUND OR AN OAKUM AND LEAD JOINT ON EACH SIDE OF THE WALL OR FLOOR.
 8. UNDERGROUND CONDUITS SHALL BE BURIED UNDER A MINIMUM 18" OF EARTH.
 9. IN GENERAL, THE CONDUIT INSTALLATION SHALL FOLLOW THE LAYOUT INDICATED. THIS LAYOUT IS, HOWEVER, DIAGRAMMATIC ONLY, AND WHERE CHANGES ARE NECESSARY DUE TO STRUCTURAL CONDITIONS, OTHER APPARATUS, OR OTHER CAUSES, SUCH CHANGES SHALL BE MADE WITHOUT ANY ADDITIONAL COST TO THE OWNER. OFFSETS IN CONDUITS ARE NOT INDICATED AND MUST BE FURNISHED AS REQUIRED.
 10. 200-POUND-TEST NYLON PULL CORDS SHALL BE INSTALLED IN EMPTY RACEWAYS. AT EACH END, LEAVE 12" OF SLACK COILED IN BOX OR AT END OF RACEWAYS.
- F. WIRING:
1. NO WIRE SHALL BE SMALLER THAN #10 AWG UNLESS OTHERWISE INDICATED.
 2. WIRE AND CABLE SHALL BE ANNEALED SOFT DRAWN COPPER AND HAVE A CONDUCTANCE OF 98%.
 3. SPLICES, TAPS AND TERMINATIONS:
JOINTS IN STRANDED CONDUCTORS SHALL BE SPLICED BY MECHANICAL CONNECTORS AND GUM RUBBER TAPE OR FRICTION TAPE. SOLDERLESS MECHANICAL CONNECTORS FOR SPLICES AND TAPS PROVIDED WITH UL-APPROVED INSULATING COVERS MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE.
 4. WIRE SHALL BE COLOR-CODED THE ENTIRE LENGTH TO INDICATE THE VARIOUS PHASES AND NEUTRAL.
 5. COLOR-CODING FOR THE VARIOUS SYSTEMS SHALL BE AS FOLLOWS:

FOR 208/120 V SYSTEM:

PHASE A - BLACK
PHASE B - RED
PHASE C - BLUE
NEUTRAL - WHITE
GROUND - GREEN
 6. INSULATION SHALL BE NEC TYPE THHN/THHN.
- G. EQUIPMENT GROUNDS:
1. EQUIPMENT, ENCLOSURES AND RACEWAYS SHALL BE GROUNDED.
 2. A GREEN COLORED GROUNDING CONDUCTOR SHALL BE INSTALLED IN RACEWAYS WITH THE PHASE CONDUCTORS.
 3. BOND GROUND CONDUCTORS AT ORIGIN OF CIRCUITS, AT INTERMEDIATE PULL BOXES, AND TO PANELBOARDS OR EQUIPMENT AT TERMINATIONS.
- H. LUMINAIRES:
1. REFER TO LANDSCAPE PLANS FOR EXACT LOCATIONS OF LUMINAIRES.
 2. REFER TO LUMINAIRE SCHEDULE FOR PRODUCT INFORMATION.
- I. LIGHTING CONTROLS:
1. LIGHTING CONTACTORS:
 - a. MECHANICALLY HELD TYPE, 20A, 120V, 60 HZ MAXIMUM RATING. NUMBER OF POLES INDICATED ON THE DRAWINGS. NORMALLY OPEN, NEMA 1 ENCLOSURE WITH HAND-OFF-AUTOMATIC SWITCH MOUNTED ON ENCLOSURE. MECHANICALLY HELD CONTACTORS SHALL HAVE SOLID STATE CONTROL MODULES FOR 2-WIRE OPERATION.
 - b. MANUFACTURER: ASCO, GE, SIEMENS, OR SQUARE D.
 2. ASTRONOMICAL TIME CLOCK:
 - a. ELECTRONIC 4-CHANNEL TIME SWITCH WITH 7 DAY PROGRAMMING, AUTOMATIC DAYLIGHT SAVINGS AND LEAP YEAR ADJUSTMENTS, HOLIDAY SCHEDULING, ASTRONOMIC CAPABILITY ON ALL CHANNELS, LED DISPLAY, BATTERY POWERED MEMORY, AND MANUAL PERMANENT OVERRIDE SWITCHES. INPUT VOLTAGE SHALL BE 120 V AC. OUTPUTS SHALL BE SINGLE-POLE, DOUBLE-THROW RELAYS WITH 10 A, 120 V AC MAINTAINED CONTACTS. ENCLOSURE SHALL BE LOCKABLE NEMA 1 SURFACE-MOUNTED.
 - b. MANUFACTURER: INTERMATIC, OR TORK.
 3. PHOTOCELL:
 - a. HEAVY DUTY DIE CAST ENCLOSURE, WEATHERPROOF, GASKETED, CONTAINING CADMIUM SULPHIDE HERMETICALLY SEALED CELL. CONTACTS SHALL BE SINGLE-POLE, SINGLE-THROW NORMALLY CLOSED. ON-OFF ADJUSTMENT SHALL BE BY MOVABLE LIGHT LEVEL SELECTOR. UNITS SHALL BE DESIGNED FOR MOUNTING ON THREADED CONDUIT NIPPLE.
 - b. MANUFACTURER: INTERMATIC, OR TORK.
- J. MISCELLANEOUS:
1. MAINTAIN ON SITE, A COMPREHENSIVE SET OF DRAWINGS WITH AS-BUILT CONDITIONS CLEARLY INDICATED IN RED.
 2. VERIFY CODE COMPLIANCE OF EXISTING CONDITIONS. IF ANY OF THE EXISTING ELECTRICAL INSTALLATION TO BE UTILIZED IN TENANT CONSTRUCTION IS FOUND TO BE DEFECTIVE OR IN VIOLATION OF NATIONAL, STATE OR LOCAL CODES, NOTIFY THE ARCHITECT IN WRITING WITHIN 5 WORKING DAYS.
 3. WORK SHALL BE NEAT IN APPEARANCE, PLUMB, LEVEL AND TRUE. ANY WORK DEEMED UNSATISFACTORY BY THE ARCHITECT SHALL IMMEDIATELY BE REMOVED AND REPLACED.

DATE					
NO.	REVISIONS				
Newcomb & Boyd Copyright © 2019 CONSULTING ENGINEERING GROUP Suite 525 303 Peachtree Center Avenue, NE Atlanta, Georgia 30303-1277 T 404 730-8400 F 404 730-8401 CONTACT: Richard Dozier N&B PROJECT: 19N231					
DeKalb County Manuel Marloof Building Drive Landscape Improvements			ELECTRICAL LEGEND AND SPECIFICATIONS		
THIS DRAWING WAS PREPARED SITE SPECIFIC FOR THE ABOVE-NAMED PROJECT AND IS NOT, WITHOUT THE EXPRESS WRITTEN CONSENT OF NEWCOMB & BOYD, INTENDED FOR USE ON ADDITIONS TO THIS PROJECT, FOR COMPLETION OF THIS PROJECT BY OTHERS, OR FOR USE ON OTHER PROJECTS.					
SEAL 					
PROJECT NO. 19N231					
DATE 08/04/2019					
SCALE NONE					
DRAWING NO.					
E100 OF					



GENERAL NOTES

1. FIELD VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO INSTALLATION OF NEW CONDUITS.
2. ALL ELECTRICAL WORK ASSOCIATED WITH EXISTING ELECTRICAL EQUIPMENT SHALL BE SCHEDULED WITH OWNER AND USERS TO MINIMIZE INTERRUPTION OF POWER TO EXISTING SYSTEMS. PERFORM WORK AT SUCH TIME AND IN SUCH MANNER AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER.
3. PROVIDE CONDUIT SLEEVES FOR ROUTING UNDERNEATH SIDEWALKS.

KEYED NOTES

1. REMOVE EXISTING FIXTURE AND ASSOCIATED WIRING. INSTALL NEW FIXTURE IN PLACE.
2. PROVIDE NEW LIGHTING CONTACTOR 'LC-1' IN EXISTING STORAGE ROOM. COORDINATE EXACT LOCATION IN FIELD WITH OWNER.
3. CONNECT NEW FEEDER (2#10, #100 ~ 0.75" C) TO SERVE NEW EXTERIOR LUMINAIRES TO EXISTING CIRCUIT PROVIDED BY OWNER. ROUTE CIRCUIT THROUGH NEW LIGHTING CONTACTOR 'LC-1'.
4. CONNECT NEW IRRIGATION CONTROLLER IN STORAGE ROOM TO EXISTING CIRCUIT PROVIDED BY OWNER.
5. REMOTE DRIVER. ROUTE CIRCUIT THROUGH NEW LIGHTING CONTACTOR 'LC-1'.
6. NEW EXTERIOR WALL-MOUNTED PHOTOCELL. REFER TO DETAIL 1 ON SHEET E102 FOR ADDITIONAL WIRING INFORMATION.

NO.	REVISIONS	DATE

Newcomb & Boyd
Copyright © 2019
CONSULTING ENGINEERING GROUP
Suite 525
3013 Peachtree Center Avenue, NE
Atlanta, Georgia 30305-1277
T 404 730-8400
F 404 730-8401
CONTACT: Richard Dozier
N&B PROJECT: 19N231

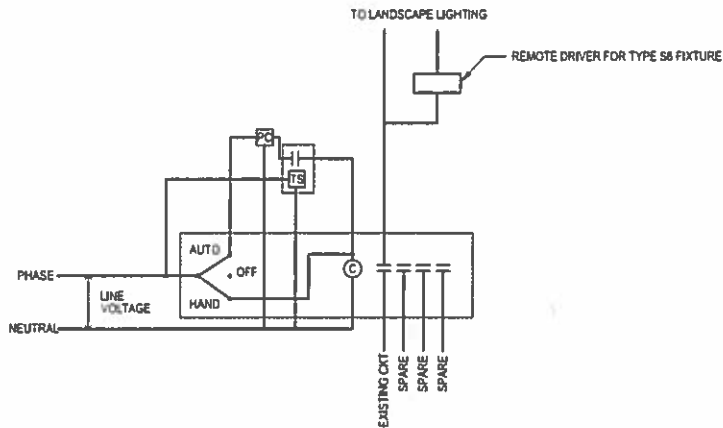
**DeKalb County
Manuel Maloof Building
Drive Landscape Improvements**

**ELECTRICAL
SITE PLAN**

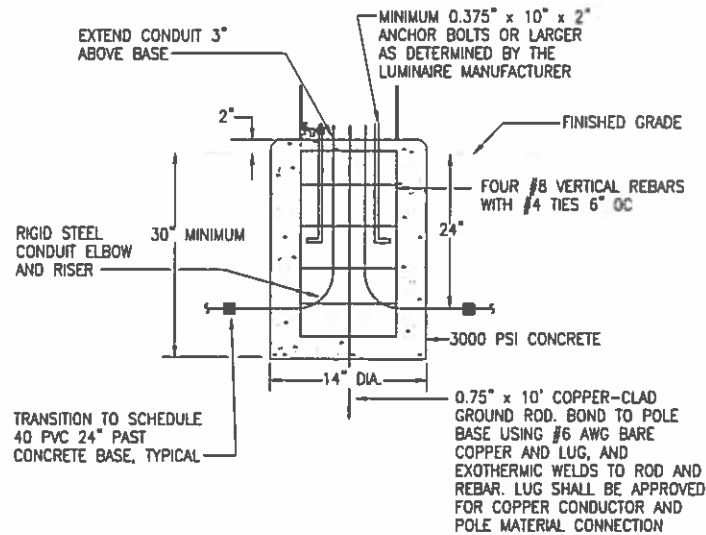
THIS DRAWING WAS PREPARED SITE SPECIFIC FOR THE ABOVE-NAMED PROJECT AND IS NOT, WITHOUT THE EXPRESS WRITTEN CONSENT OF NEWCOMB & BOYD, INTENDED FOR USE ON ADDITIONS TO THIS PROJECT, FOR COMPLETION OF THIS PROJECT BY OTHERS, OR FOR USE ON OTHER PROJECTS.

SEAL

PROJECT NO. 19N231
DATE 09/04/2019
SCALE 1" = 30'
DRAWING NO. **E101**
OF



1 PHOTOCELL LIGHTING CONTROL SCHEMATIC
E-102 NO SCALE



NOTES:
1. FOR TYPE P1 AND P2 LUMINAIRES.

2 LUMINAIRE BASES
E-102 NTS

LUMINAIRE SCHEDULE					
TYPE	MANUFACTURER	CATALOG SERIES	LAMP QUANTITY & TYPE	VOLTAGE/ DESIGN WATTAGE	DESCRIPTION
P1	LITHOMIA OR APPROVED EQUAL	RADPT	LED-5000L-3500K MINIMUM 80 CRI L90 @ 50,000 HRS	120/ 38	POST TOP LUMINAIRE WITH TYPE V OPTICAL DISTRIBUTION. PROVIDE WITH POLE 4" DIAMETER 10' ROUND STRAIGHT POLE. UL LISTED FOR WET LOCATIONS. FINISH SHALL BE PER ARCHITECT.
P2	GARDCO OR APPROVED EQUAL	PBL	LED-800L-3500K MINIMUM 80 CRI L70 @ 100,000 HRS	120/ 24	LED BOLLARD FIXTURE WITH TYPE V OPTICAL DISTRIBUTION. PROVIDE WITH STANDARD 36" SHAFT MOUNTING. UL LISTED FOR WET LOCATIONS. FINISH SHALL BE PER ARCHITECT.
S1	ECOSENSE OR APPROVED EQUAL	FO80	LED-300L-3500K MINIMUM 80 CRI L70 @ 60,000 HRS	120/ 4	ADJUSTABLE GROUND MOUNTED LANDSCAPE FLOODLIGHT. PROVIDE WITH 30X60 DEGREE ELLIPTICAL OPTICAL SPREAD AND HALF SHOOT. PROVIDE WITH GROUNDSTAKE AND REDUCED WIRING FOR GROUND MOUNTING. UL LISTED FOR WET LOCATIONS. FINISH SHALL BE PER ARCHITECT. LUMINAIRE SHALL BE FIELD ADJUSTED TO ILLUMINATE LANDSCAPE. INSTALL SPACED 15' APART OVER CENTER.
S2					SAME AS TYPE S1 EXCEPT 15 DEGREE OPTICAL SPREAD. LUMINAIRE SHALL BE FIELD ADJUSTED TO ILLUMINATE FLAGPOLE.
S3					SAME AS TYPE S1 EXCEPT 60X30 DEGREE OPTICAL SPREAD. LUMINAIRE SHALL BE FIELD ADJUSTED TO ILLUMINATE SIGNAGE.
S4					SAME AS TYPE S1 EXCEPT 40 DEGREE OPTICAL SPREAD. LUMINAIRE SHALL BE FIELD ADJUSTED TO ILLUMINATE TREE.
S5					SAME AS TYPE S1 EXCEPT INSTALL SPACED 10' APART OVER CENTER. LUMINAIRE SHALL BE FIELD ADJUSTED TO ILLUMINATE LANDSCAPE.
S6	BEGA OR APPROVED EQUAL	77019	LED-350L-3500K MINIMUM 80 CRI L70 @ 50,000 HRS	24V DC/ 3W	IN-GRADE LUMINAIRE WITH STAINLESS STEEL HOUSING AND TEMPERED CLEAR SAFETY GLASS AND DIRECTIONAL UPLIGHTING OPTICAL DISTRIBUTION. PROVIDE WITH REMOTE POWER SUPPLY. UL LISTED FOR WET LOCATIONS. FINISH SHALL BE PER ARCHITECT. LUMINAIRE SHALL BE AIMED TO ILLUMINATE LANDSCAPE.

LIGHTING CONTACTOR 'LC-1' SCHEDULE				
RELAY	POWER CIRCUIT	LOAD (WATTS)	DESCRIPTION	CONTROL NOTES
1	EXISTING	665	EXTERIOR LIGHTING	1
2	--	--	SPARE	
3	--	--	SPARE	
4	--	--	SPARE	

GENERAL NOTES:
1. RELAY SHALL BE CONTROLLED BY EXTERIOR PHOTOCELL LOCATED ON NORTH WALL OF ANNEX BUILDING WITH ASTRONOMICAL CLOCK OVERRIDE ADJACENT TO LIGHTING CONTACTOR.

DATE

NO. REVISIONS

NEWCOMB & BOYD
Copyright © 2019
CONSULTING ENGINEERING GROUP
Suite 525
303 Peachtree Center Avenue, NE
Atlanta, Georgia 30303-1277
T 404 730-8400
F 404 730-8401
CONTACT: Richard Dozier
N&B PROJECT: 19N231

DeKalb County
Manuel Maloof Building
Drive Landscape Improvements

ELECTRICAL
DETAILS

FILE

THIS DRAWING WAS PREPARED SITE SPECIFIC FOR THE ABOVE-NAMED PROJECT AND IS NOT, WITHOUT THE EXPRESS WRITTEN CONSENT OF NEWCOMB & BOYD, INTENDED FOR USE ON ADDITIONS TO THIS PROJECT, FOR COMPLETION OF THIS PROJECT BY OTHERS, OR FOR USE ON OTHER PROJECTS.

SEAL

GEORGIA

REGISTERED

No. 032027

PROFESSIONAL

ENGINEER

Richard Dozier

Richard Dozier

PROJECT NO. 19N231

DATE 09/04/2019

SCALE NONE

DRAWING NO. E102

OF