

# LAFAYETTE SQUARE LIGHTING ENHANCEMENTS

FOR CITY OF LAGRANGE

LAGRANGE, GEORGIA

(ARCHITECTURAL)

PROJECT NUMBER 20-12

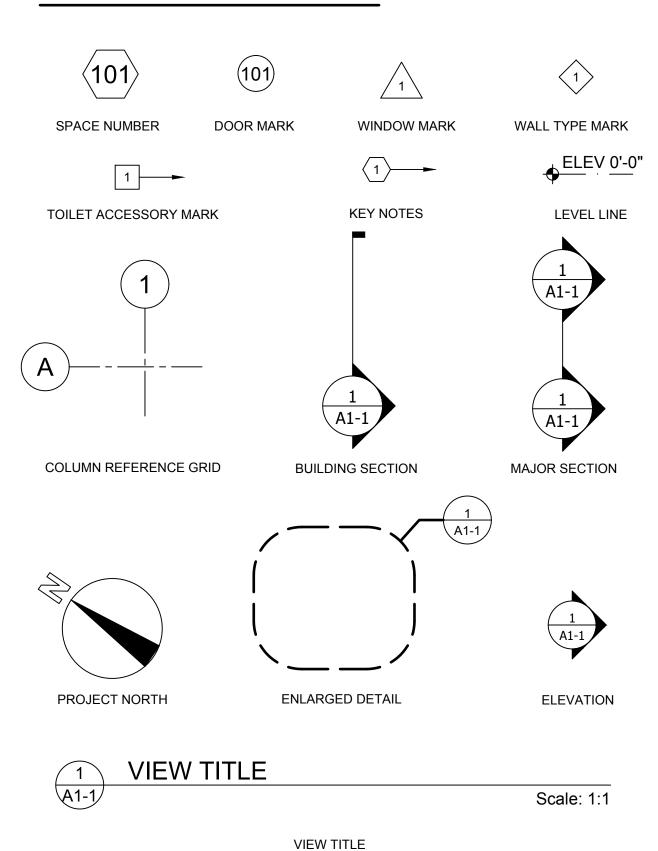
FOR BIDDING AND PERMIT

14 OCT 2020

### ABBREVIATIONS:

<b>a</b>	Λ+	IANI	lanitar
@ A.B.	At Anchor Bolt	JAN. J.B.	Janitor Joist Bearing
A.C.	Air Conditioner	JST.	Joist Bearing
ACOUST.	Acoustical	J.T.	Joist
ALUM.	Aluminum	0.1.	33.31
ARCH.	Architectural		
A.T.	Acoustical Tile	LAV.	Lavatory
		LLV.	Long Leg Vertical
D.C	Bottom of Curb		
B.C. BLK.	Block	MAS.; MSRY	Masonry
BOTT.	Bottom	MCS	Modular Cabinet System
B011.	Bottom	MECH.	Mechanical
		MIN.	Minimum
CER.	Ceramic		
CHM.	Custom Hollow Metal		
C.I.	Curb Inlet	N	North
CLO.	Centerline Closet	NA N.I.C.	Not Applicable Not In Contract
CMU.	Concrete Masonry Unit	N.I.C. NTS	Not to Scale
C.O.	Clean Out	1110	Not to Codic
COL.	Column		
CONC.	Concrete	O.C.	On Center
CONST.	Construction	OPP.	Opposite
CONT.	Continuous		
C.T.	Ceramic Tile	DI	DI (
CHR. C.J.	Coat & Hat Rack Control Joint	PL PT	Plate Pressure Treated
C.J.	Control Joint	PEJ	Premolded Expansion
		PLAST	Plaster
D: DIAM.	Diameter	PSF	Pounds Per Square Foot
DF	Drink Fountain	PSI	Pounds Per Square Inch
DI	Drain Inlet		
DN	Down	_	
DRIV.	Driver	R REF	Radius
DS DWGS.	Downspout Drawings	REC'D	Refrigerator Required
DWGS.	Dowels	RLQD	Roof Level
DR DR	Drawer	RM	Room
		RT	Resilient Tile
		RW	Regular Weight
E.J.; EXP. JT.	Expansion Joint		Round
EL.; ELEV	Elevation		
EQ EQUIP.	Equal Equipment	SQ.	Square
E.F.I.S.	Exterior Finish	SQ. SIM	Similar
2	Insulation System	SLV	Short Leg Vertical
	,	S.M.	Sheet Metal
		STL	Steel
F.E.	Fire Extinguisher	STO.; STOR	Storage
F.H.	Fire Hose	STRUCT.	Structural
FES FIN.	Fire Extinguisher Sign Finish	SH	Shelves
FIN. FLEX.	Flexible		
FLR.	Floor	TC	Teacher Cabinet
FT.	Foot	T.C.	Top of Curb
FTG.	Footing	TD	Turn Down
		TFF	Top of Finished Floor
		TFS	Top of Finished Slab
GA G.C.	Gauge	T & G T.M.	Tongue and Groove Transitional Material
G.C. GYP. BRD.	General Contractor Gypsum Wallboard	TP	Transitional Material Top of Pavement
OTT. DIND.	Cypsum Wallboard	T/S	Top of Steel
		TYP.	Typical
Н	Height		••
HC	Handicapped	U.N.O.	Unless Noted Otherwise
HCM	Hollow Concrete Masonry		
HORIZ.	Horizontal	V C 1	Vancar Control Isiat
HW	Hand Wash	V.C.J. VERT.	Veneer Control Joint Vertical
		VERT. VRS	veπicai Varies
I.D.	Inside Diameter	VWC	Varies Vinyl Wall Covering
IND.	Industrial	-	, <del></del>
INV.	Invert		
		W	Width
		W/ W.C	With
		W.C. WD	Water Cooler Wood
		WWF	Welded Wire Fabric

### INDEX OF SYMBOLS:



#### ARCHITECT OF RECORD:

SMITH DESIGN GROUP. INC. GORDON M. SMITH, AIA 206 WEST HARALSON STREET - LAGRANGE - GEORGIA 30240 (PH) 706-882-5511

#### **ENGINEER OF RECORD:**

THE MADDOX GROUP. INC. 9309 SEMINOLE ROAD - JONESBORO - GEORGIA 30236-5131 (PH) 770-471-9076

INDEX OF SHEETS	
	GENERAL
G-1	COVER SHEET
G-2	INDEX OF SHEETS
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SD-2	SITE PLAN - PROPOSED
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SD-4	SITE PLAN - PARTIAL PROPOSED
SD-5	SITE SECTION
SD-6	SITE SECTION
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SD-11	DETAILS
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Ξ-02	ELECTRICAL RISERS & SCHEDULES
Ξ-03	ELECTRICAL SCHEDULES & CRITERIA
E-04	ELECTRICAL CONTROLS & WIRING
Ξ-05	ELECTRICAL PLAN
Ξ-06	ELECTRICAL PLAN AND ELEVATION
Ξ-07	ELECTRICAL LIGHTING VAULT AND TUNNEL





#### SMITH DESIGN GROUP, INC.

206 WEST HARALSON STREET LAGRANGE, GEORGIA 30240

706-882-5511

#### LAFAYETTE SQUARE PARK AND FOUNTAIN LIGHTING **EXECUTIVE SUMMARY**

THIS LIGHTING PROJECT IS TO ENHANCE THE APPEARANCE AND PROVIDE THE ABILITY TO SET UP MULTIPLE LIGHTING 'SCENES' (I.E. "LOOKS") FOR THE FOUNTAIN. THIS WILL BE ACCOMPLISHED USING UNDERWATER FOUNTAIN LIGHTS AND A FEW POLE MOUNTED LIGHTS AROUND THE PARK PERIMETER THAT FOCUS ON THE FOUNTAIN.

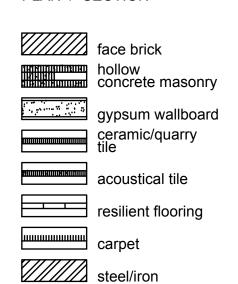
- \* EACH OF THE LIGHT FIXTURES CONSISTS OF RED, GREEN & BLUE (R-G-B) LED'S. EACH COLOR IS INDEPENDENTLY CONTROLLED (ON-OFF, DIMMED, ETC.) AND THUS WITH THESE THREE PRIMARY COLORS, ANY COLOR CAN BE PRODUCED.
- ADDITIONALLY, THE LIGHT FIXTURES ARE GROUPED BY THEIR FUNCTION (WHAT THEY
- SPECIFICALLY LIGHT). \* WITH THE PROGRAMMABLE LIGHTING CONTROL SYSTEM, EACH LIGHTING GROUP CAN BE SET
- DIFFERENT 'SCENES' CAN BE SAVED IN MEMORY OR ADDED OVER TIME. \* THE CONTROL SYSTEM CAN THEN BE SCHEDULED TO CHANGE FROM SCENE TO SCENE OVER TIME AT ANY SPEED. THUS THE FOUNTAIN'S LOOK CAN BE EVER CHANGING, FLOWING WITH THE SEASONS, TOWN EVENTS, LOCAL EMPHASIS TO BRING A FOCUS ON THE CITY SQUARE.

TO A DESIRED COLOR, BRIGHTNESS, ETC. AND SAVED AS A 'SCENE'. ONCE SET UP, MANY

# CONSTRUCTION

PLAN / SECTION

MATERIALS:

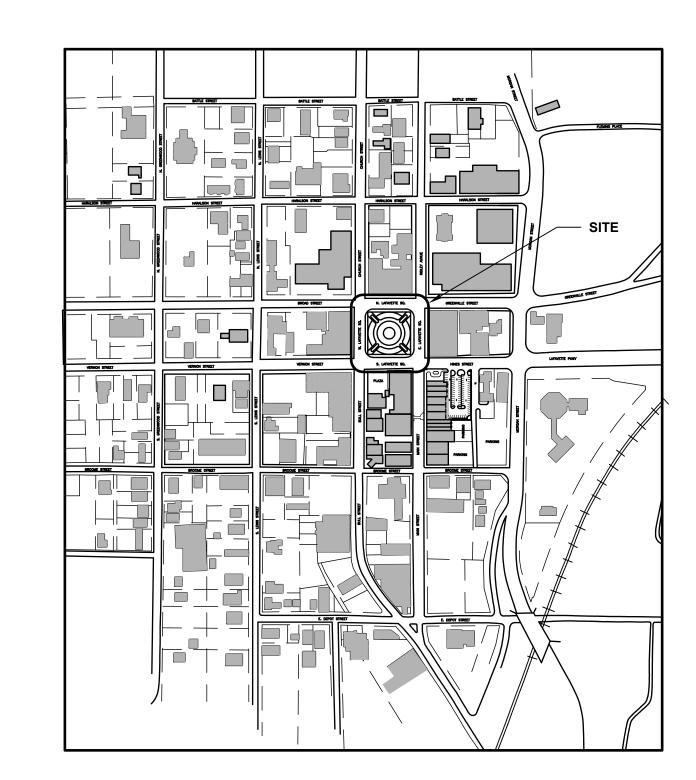


**/** aluminum small scale metal

rough lumber large scale finish lumber

small scale finish lumber large scale plywood small scale plywood

laminated plastic



**VICINITY MAP** NOT TO SCALE

The Current State Minimum Standard Codes

The following are the current state minimum standard codes for construction as adopted by the Board of Community Affairs. Current Mandatory Codes as Adopted by DCA:

International Building Code, 2018 Edition, with Georgia Amendments (2020) International Residential Code, 2018 Edition, with Georgia Amendments (2020) International Fire Code, 2018 Edition (Contact State Fire Marshal Below) International Plumbing Code, 2018 Edition, with Georgia Amendments (2020) International Mechanical Code, 2018 Edition, with Georgia Amendments (2020) International Fuel Gas Code, 2018 Edition, with Georgia Amendments (2020) National Electrical Code, 2017 Edition (No Georgia Amendments) International Energy Conservation Code, 2015 Edition, with Georgia Supplements and Amendments (2020) International Swimming Pool and Spa Code, 2018 Edition, with Georgia Amendments (2020) For information and questions regarding the Life Safety Code (NFPA 101), IFC Georgia Amendments or the Georgia Accessibility Code please contact the State Fire Marshal's Office.

REVISIONS		
$\triangle$	DATE	DESCRIPTION

PROJECT:

LAFAYETTE SQUARE LIGHTING ENHANCEMENTS

LAGRANGE, GEORGIA

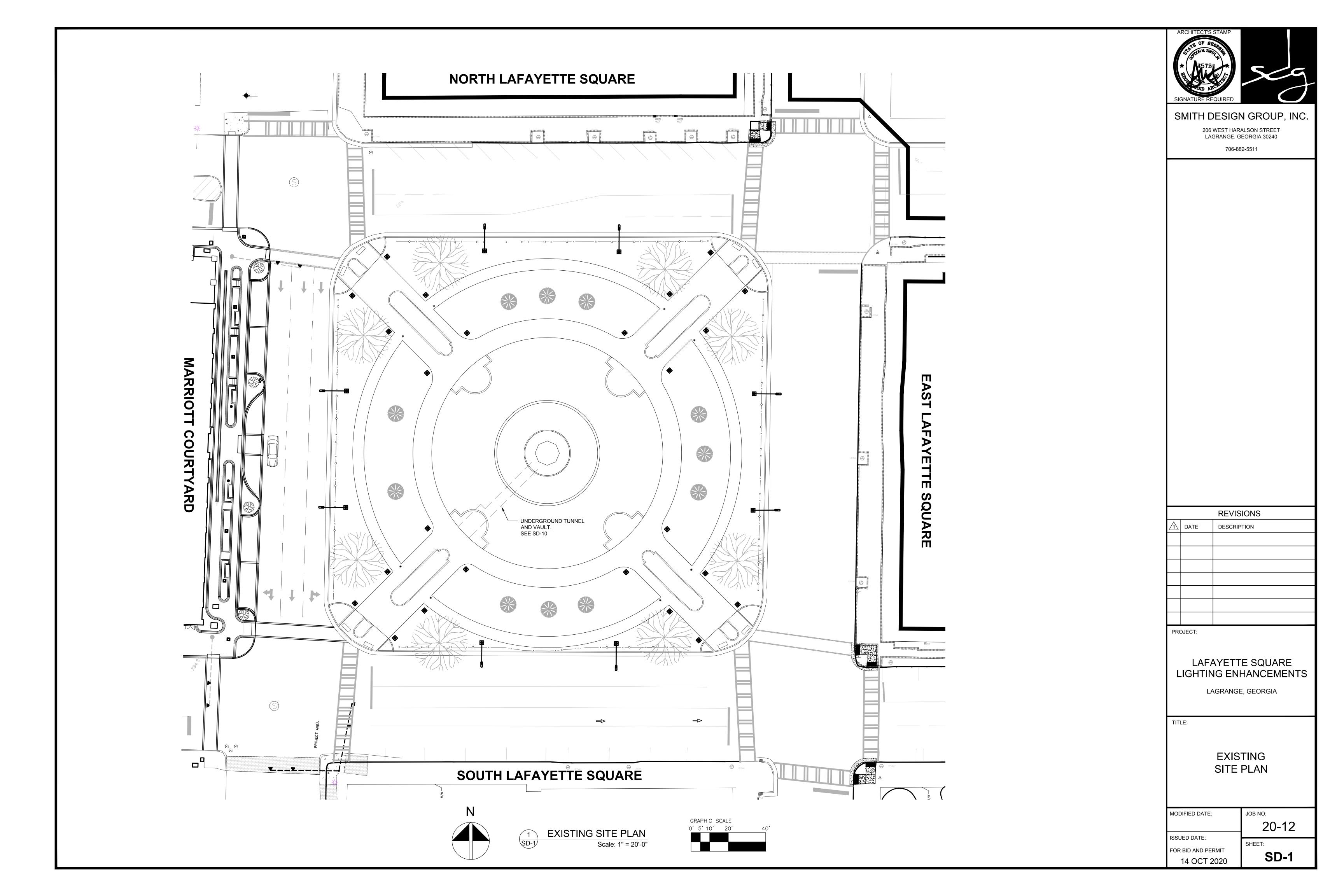
INDEX OF SHEETS

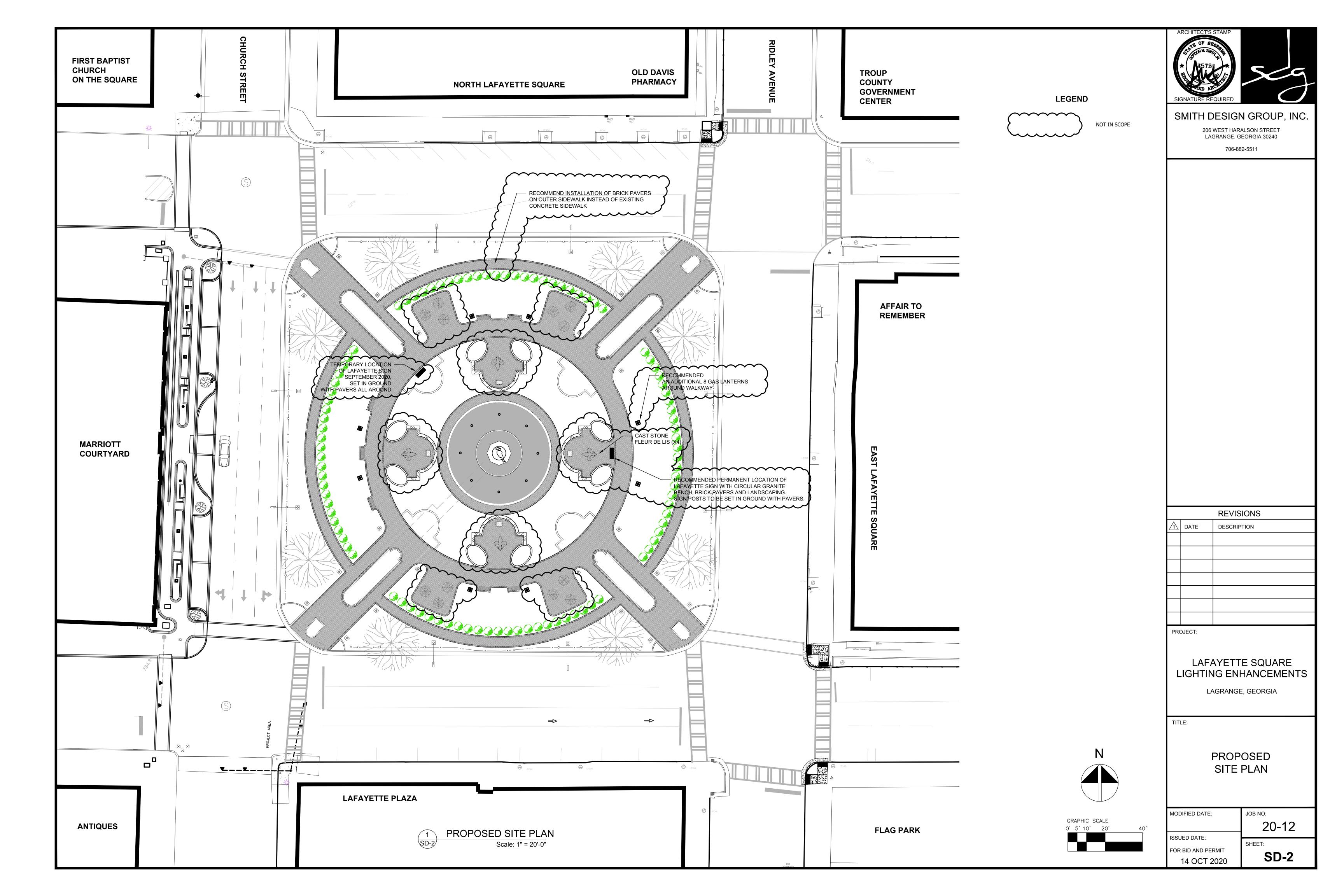
**ABBREVIATIONS** LEGENDS

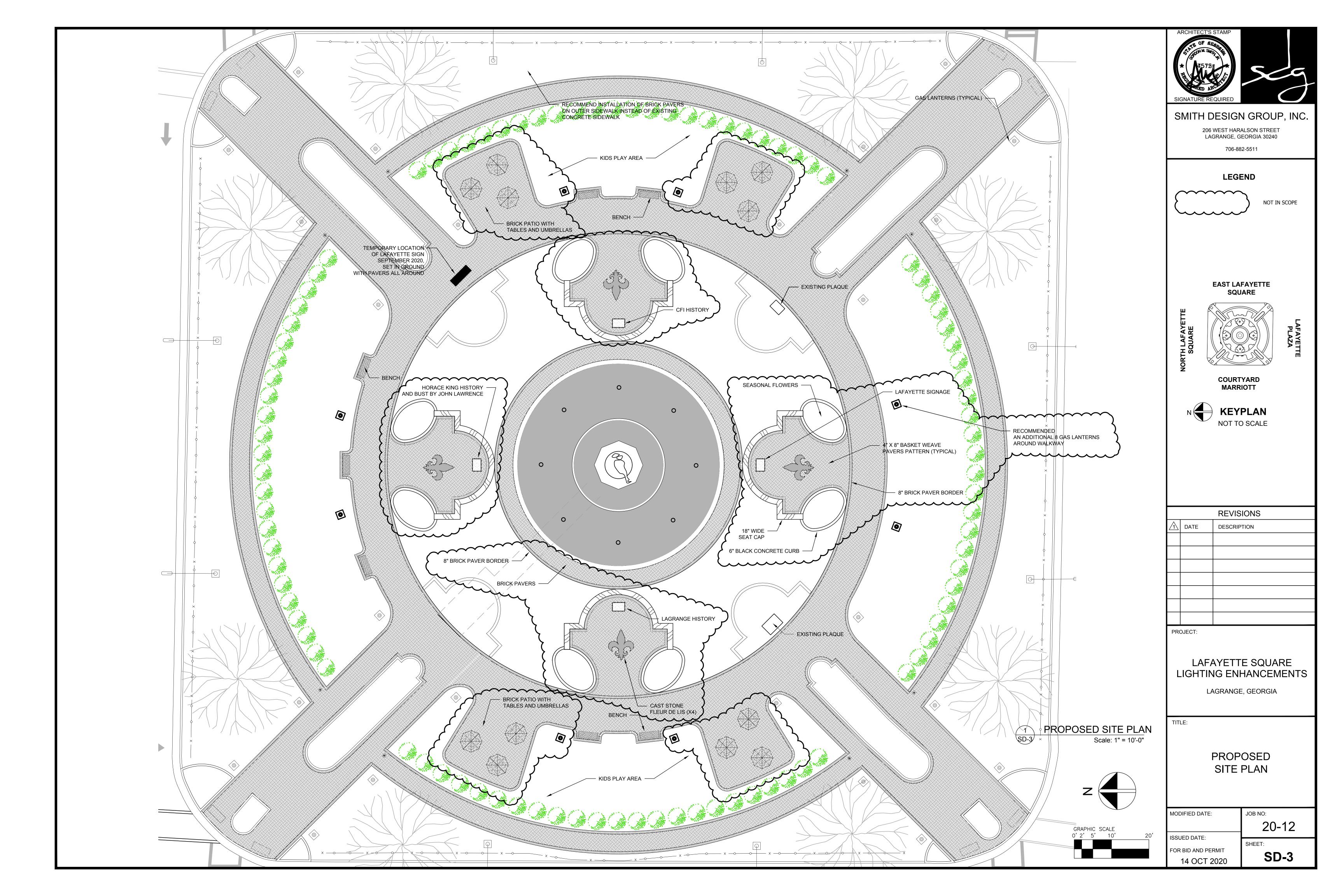
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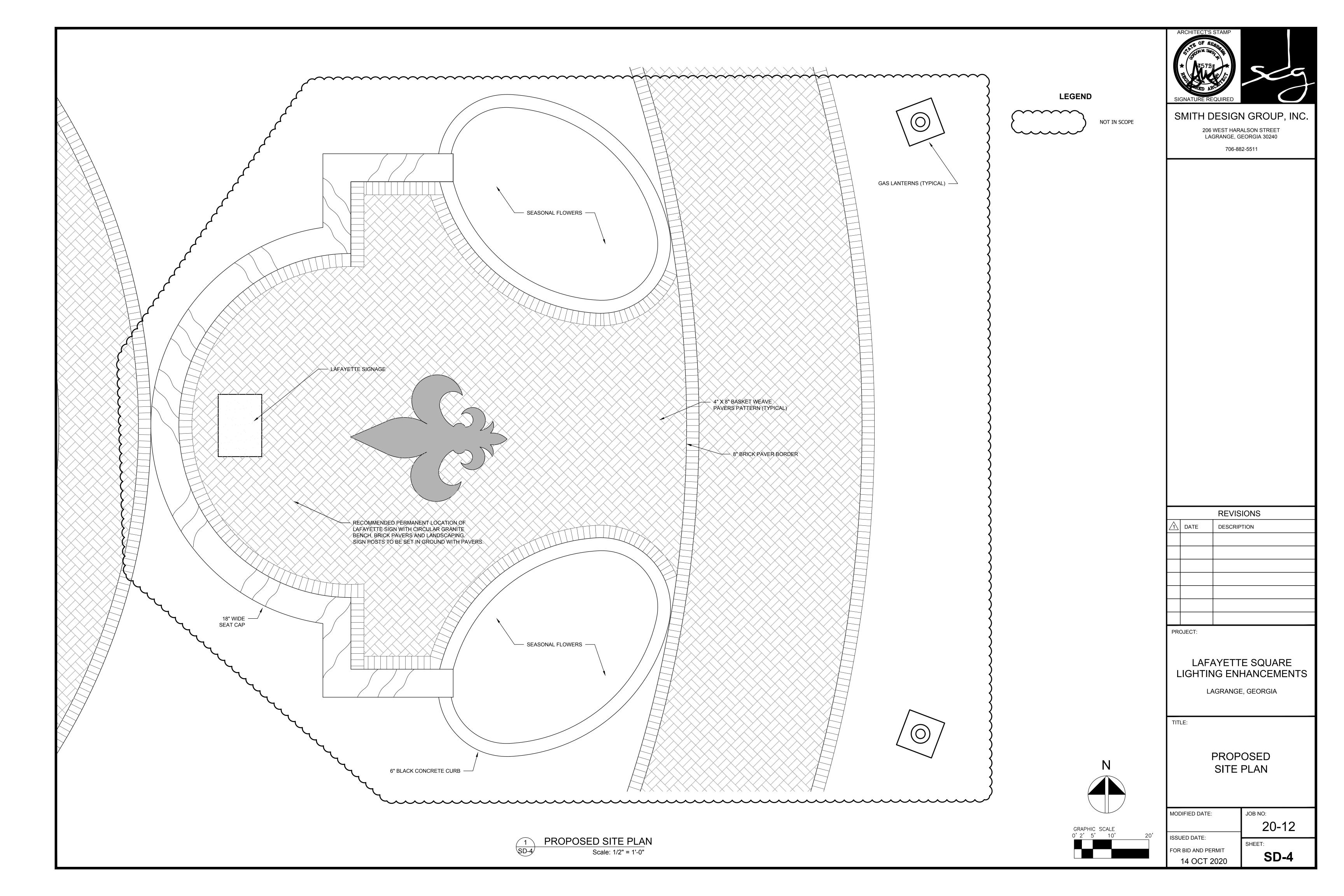
14 OCT 2020

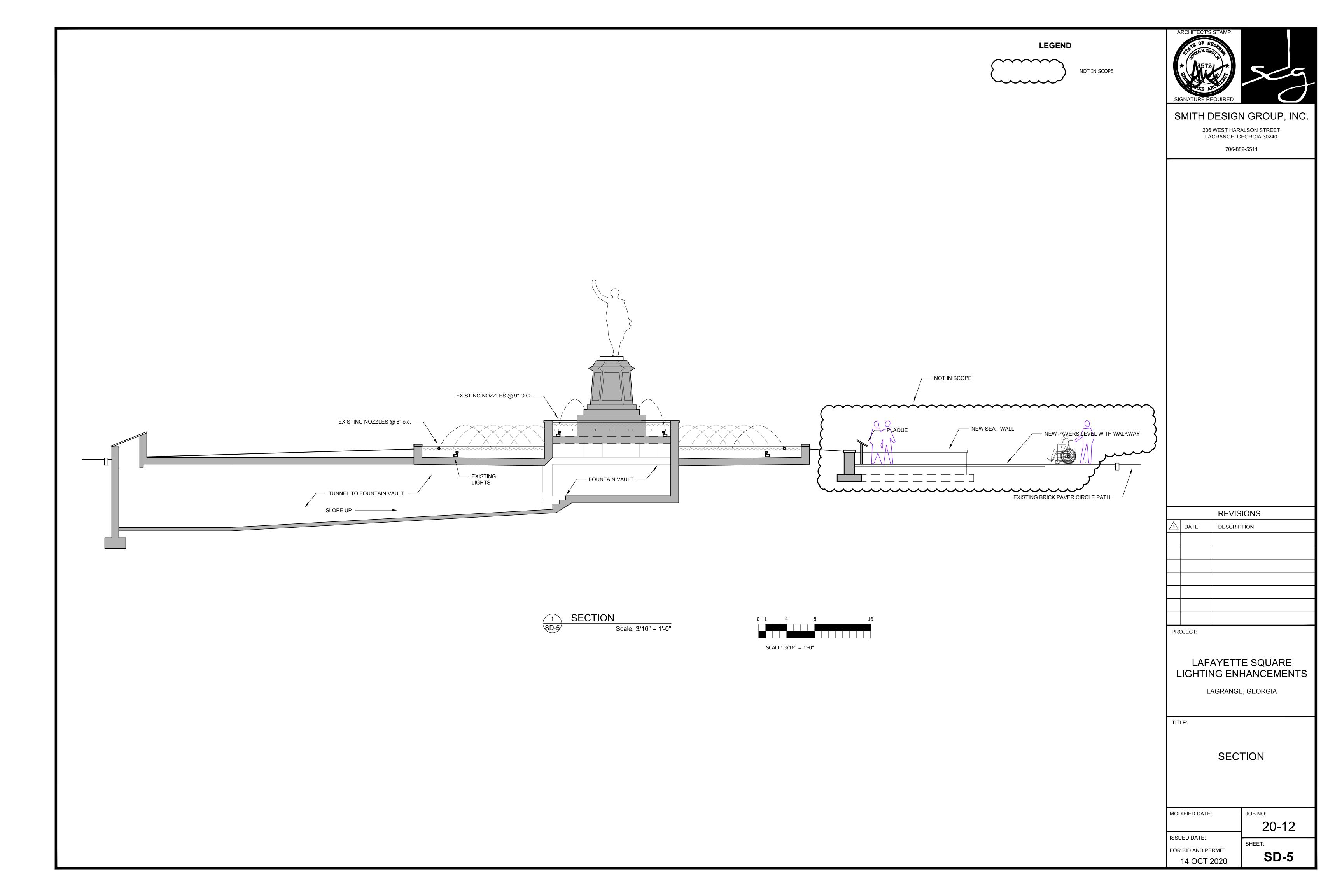
**G-2** 

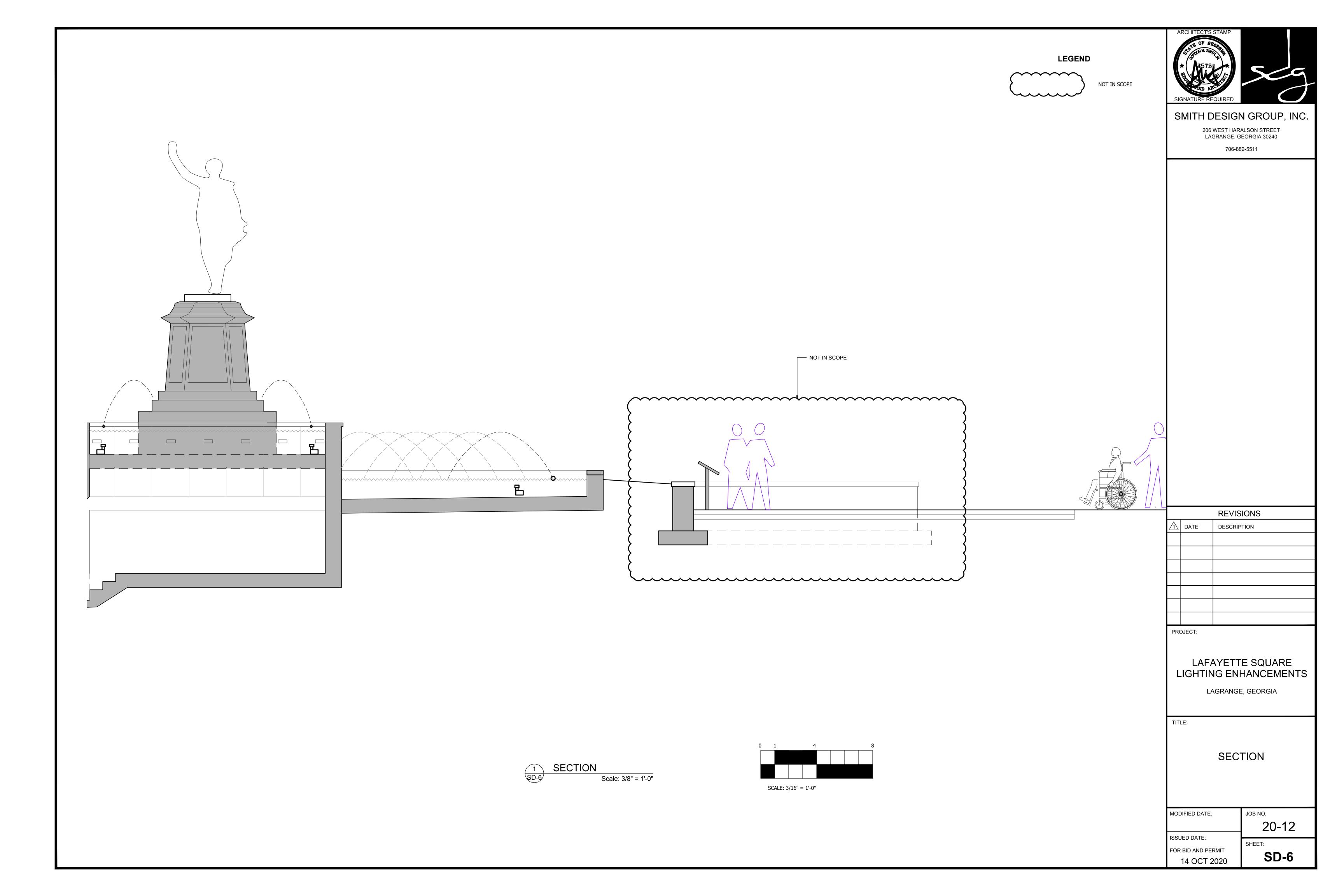


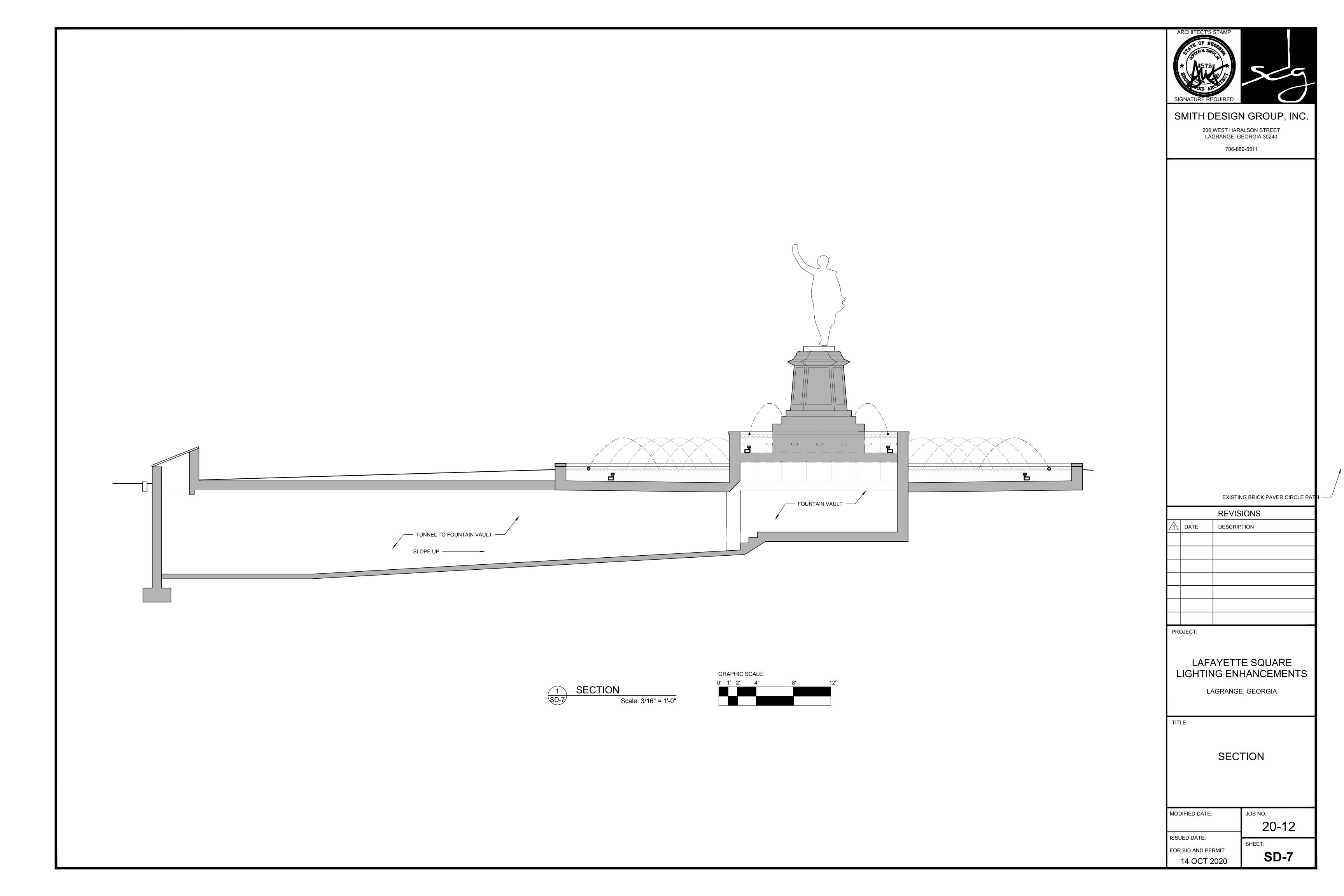


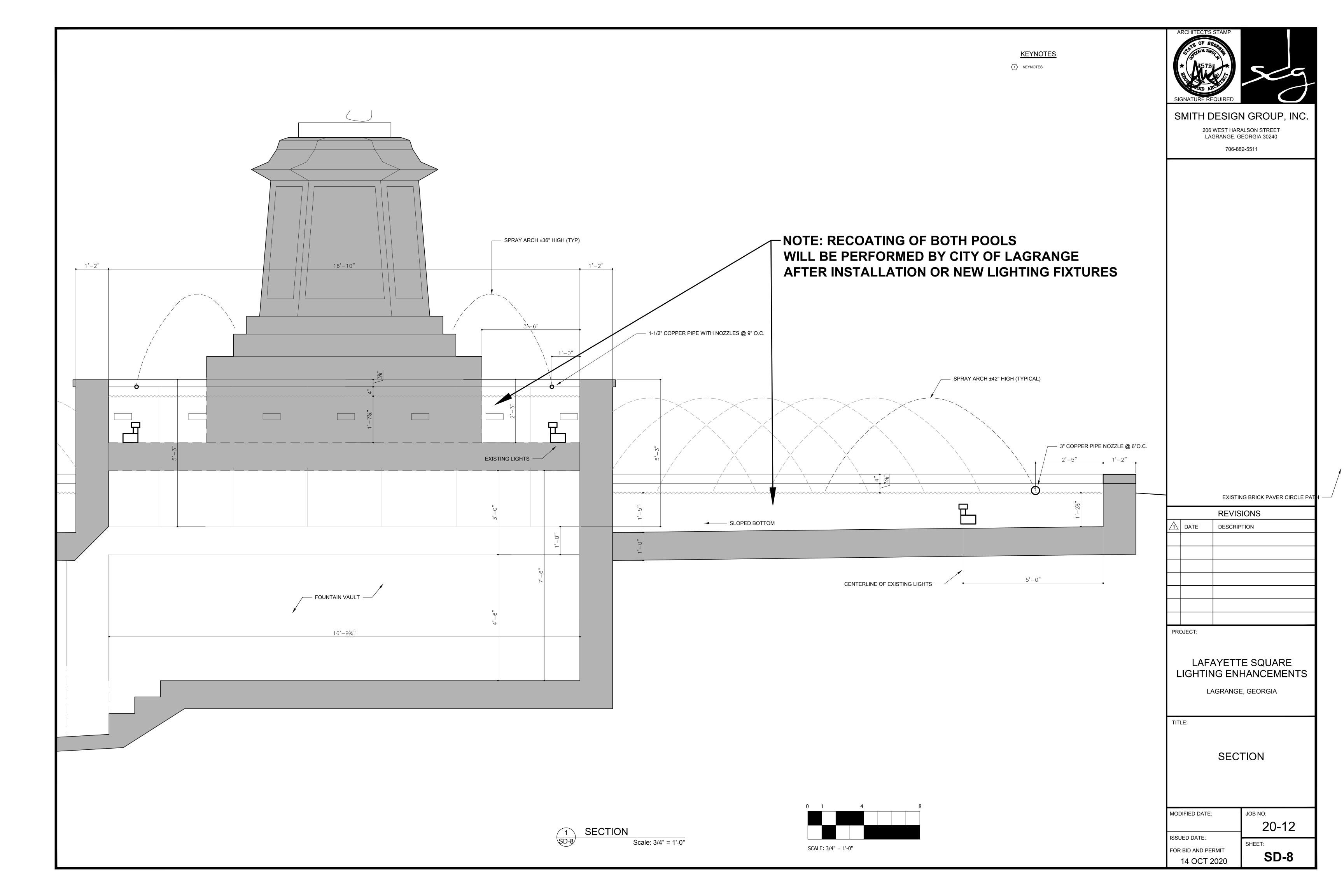


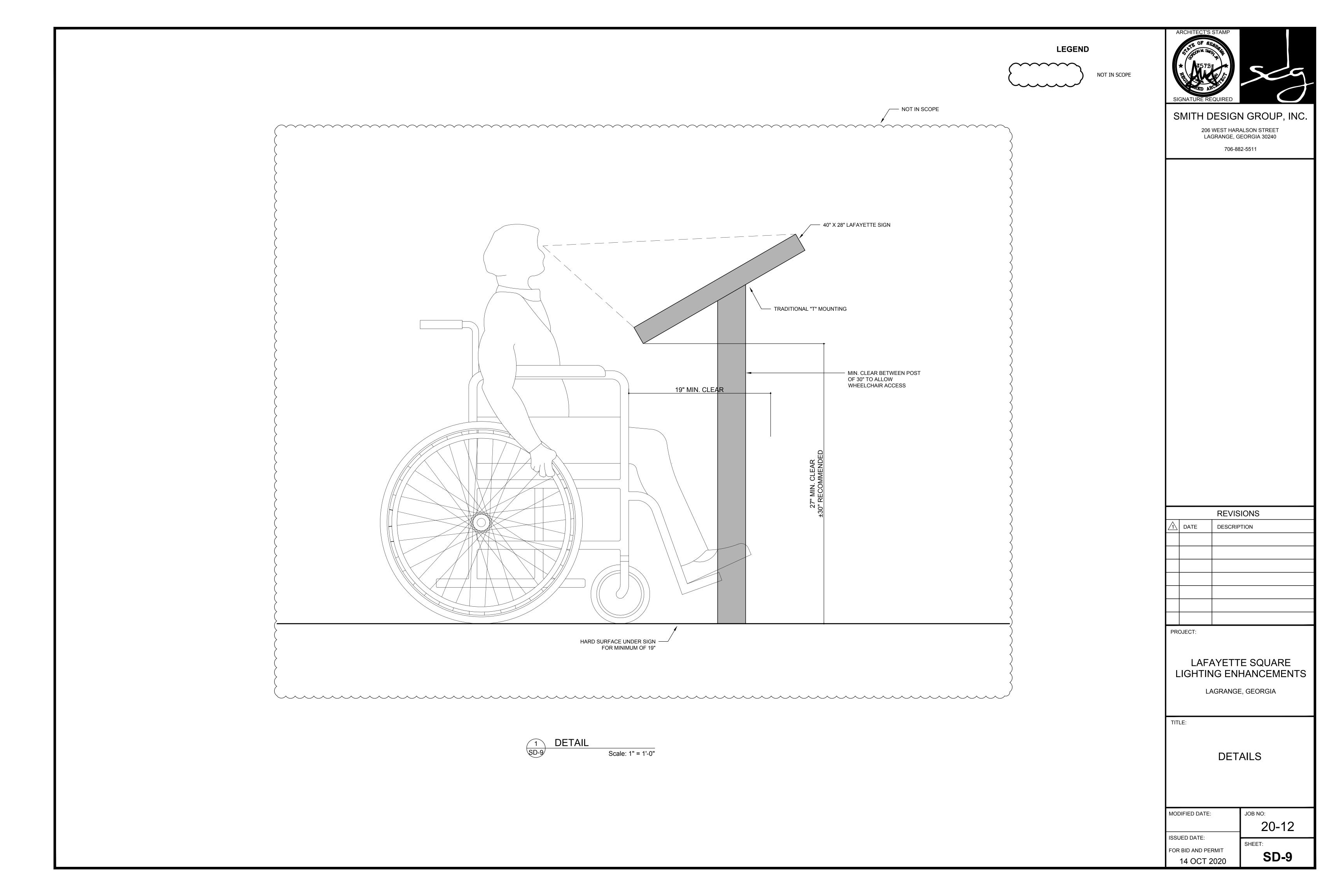


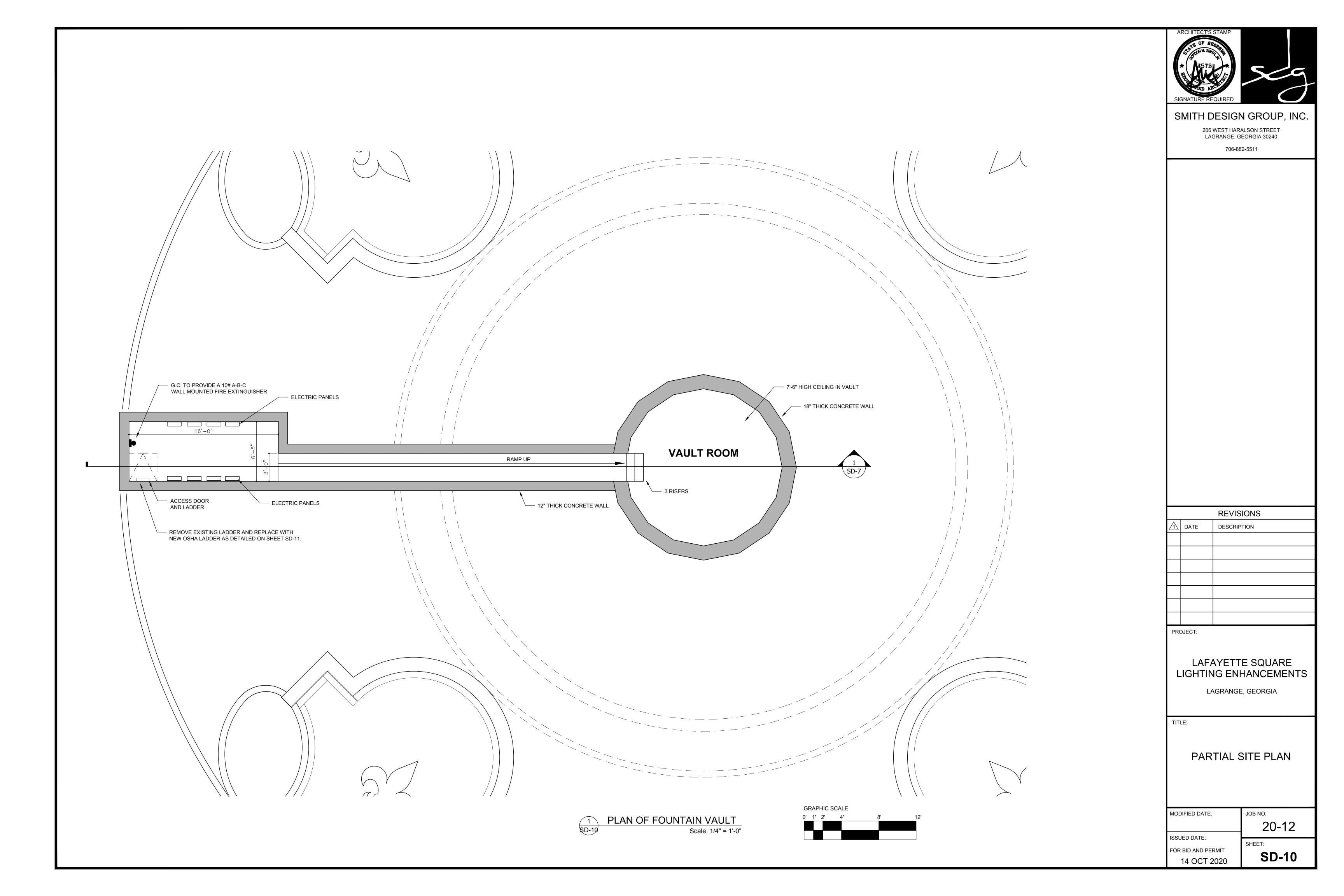


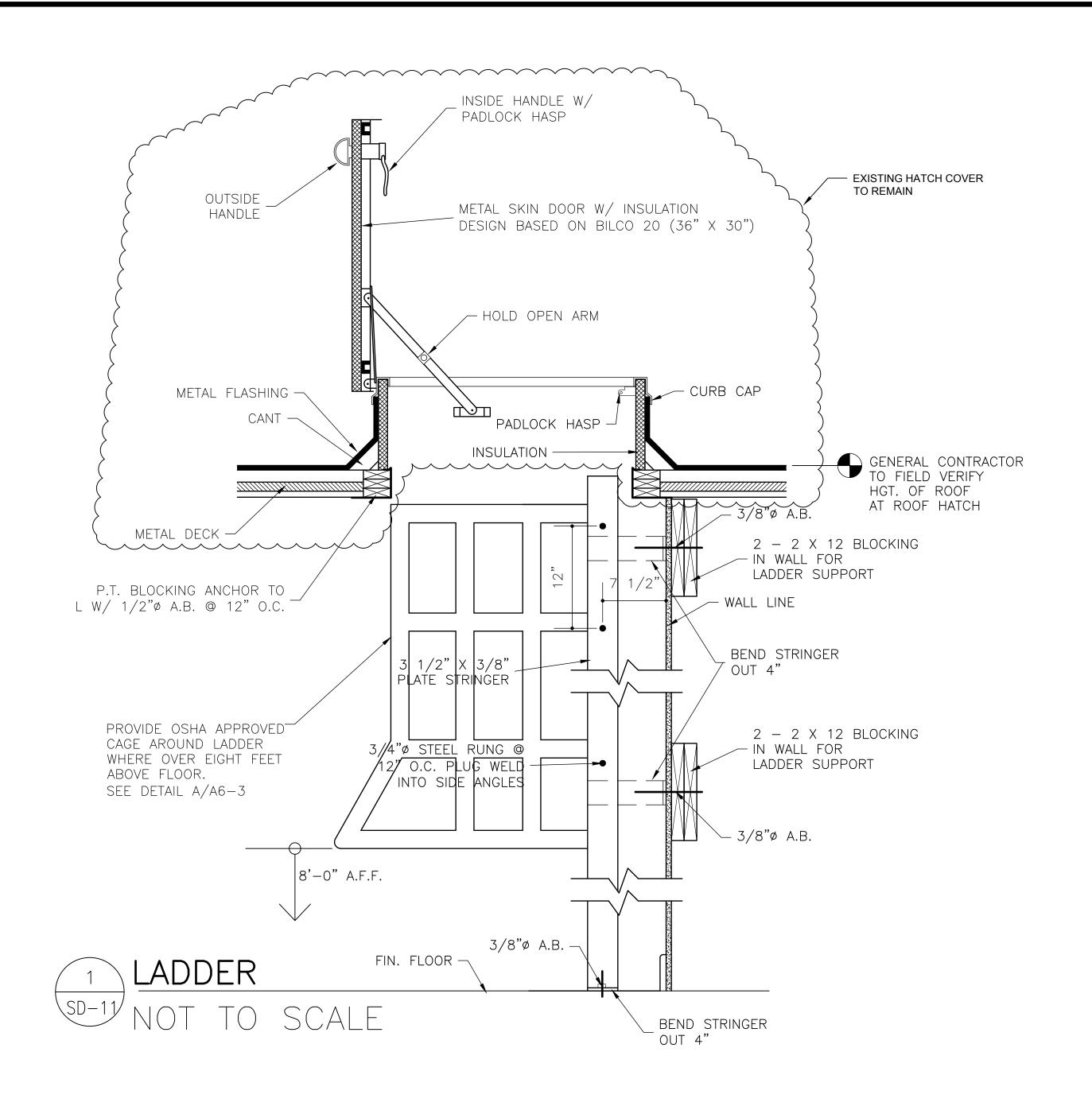


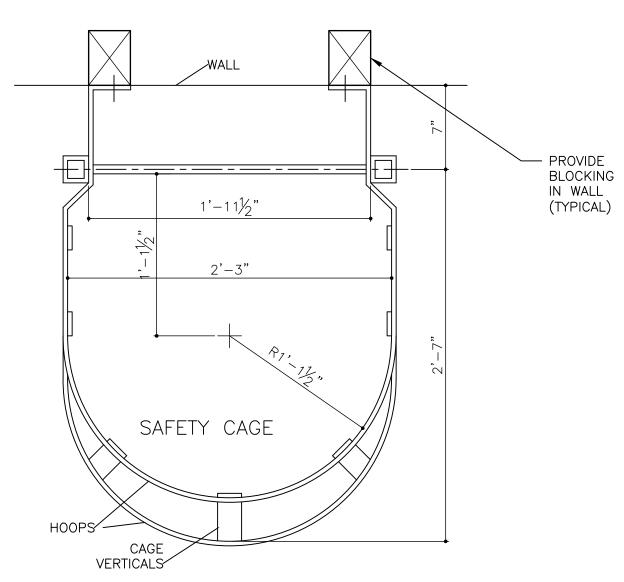




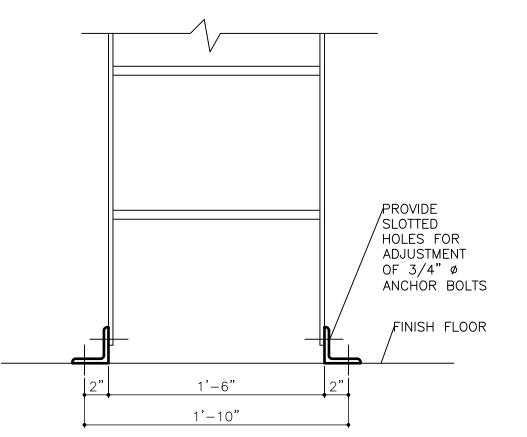










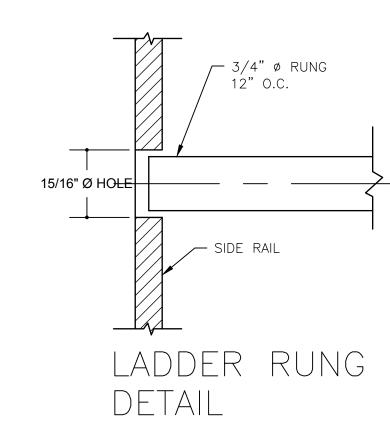


# TYPICAL LADDER FOOTING CONNECTIONS N.T.S.

G.C. TO SUBMIT DETAILED SHOP DWGS. THAT MEET OSHA REQUIREMENTS AND ANSI SPECIFICATIONS A 14.3

SUGGESTED STEEL LADDER FRAMING

3000L31L	D SIEEL LADDER	N I INAMMING
MEMBER	SIZE	SUPPORT SPACING
LADDER SIDE	2 1/2" X 3/8"	8'-0" MAXIMUM
RAILS	3" X 3/8"	12'-0" MAXIMUM
	3 1/2" X 3/8"	16'-0" MAXIMUM
CAGE HOOP	5" X 3/8"	20'-0" MAXIMUM TOP AND BOTTOM
	2" X 3/8"	ALL INTERMEDIATES
CAGE VERTICALS		SEE SECTION ABOVE
LADDER RUNGS	3/4" ø PLUG WELDED	
	INTO SIDE RAILS	





#### SMITH DESIGN GROUP, INC.

206 WEST HARALSON STREET LAGRANGE, GEORGIA 30240 706-882-5511

		REVISIONS
1	DATE	DESCRIPTION
PR	OJECT:	

LAFAYETTE SQUARE LIGHTING ENHANCEMENTS

LAGRANGE, GEORGIA

TITLE:

**DETAILS** 

MODIFIED DATE:	JOB NO:
	20-12
ISSUED DATE:	SHEET:
FOR BID AND PERMIT	
14 OCT 2020	SD-11

the owner

EC- 01		PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. <u>Submit Copy</u> Of Each Permit	
EC- 02	-	LICENSE(S)-BUSINESS: This Contactor Shall Be Properly Licensed Business Wise, In This Project State, In Accordance With All Applicable State Laws. <u>Submit Copies</u> Of Business License(s).	
EC- 03	-	BONDING & INSURANCE(s): This Contactor Shall Be Properly Bonded And Insured In Accordance With The General & Supplements Requirement Of The Project Document. <u>Submit Copies</u> Of All Such Documents.	
EC- 04	-	COORDINATION OF OTHER TRADES- This contractor is responsible for coordinating with all other trades for the proper installation of this work, maintaining required clearances, and confirming the electrical characteristics and requirement of electrical power equipment of other trades (prior to ordering equipment). Submit Copies Of All Such Documents.	
EC- 05	-	MANUFACTURERS, ALTERNATES & SUBSTITUTIONS- Components & products are to be provided matching the prescribed characteristics, features, performance, types, etc. based on the Manufacturer & Series as given. NO After-"Bid" Alternates, Changes Or Substitutions Accepted Or Allowed. Prior-To-Bid Request For Acceptance Must Be Submitted To Architect & Engineer NO-LESS Than Two-Business-Weeks Prior To Bid Date. Request-For-Acceptance Must Include Complete & Marked Product Data Indicating Full Matching Compliance. Any Variations Must Be Marked & Noted. Acceptance Will Be At The Description Of The A/E Judgment.	
EC- 06	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC-	_	WARRANTY- This contractor shall warrant all materials, labor & installation for one full year from date of Substantial Completion. Any extended product warranties shall be passed onto	

**ELECTRICAL CRITERIA - GENERAL CONDITIONS** 

#	Rv #	ELECTRICAL CRITERIA - BASICS CRITERIA	Chec
			Oil
EB-		GENERAL- Provide a complete electrical system, left in proper working order. Provide	
01		herein means installed completely, including labor & materials.	

End Of Electrical Criteria - General Conditions

LICENSE(S)-ELECTRICAL: This Contactor Shall Be Fully Licensed To Perform Electrical Work, In This Project State, For The Type Of Work To Be Performed In Accordance With All Applicable State Laws. Submit Copies Of Electrical License(s). CODES - Meet & comply with all prevailing Federal, State, County & City Codes Including

NEC (NFPA-70); ICC-IBC & any Ga Amendments; ICC-IEC & any Ga Amendments. PERMITS & FEES: Secure & pay for all fees, licenses, permits, inspections. Submit Copy Of Each Permit COORDINATION OF POWER UTILITY- Coordinate & verify, in writing, with the utility power

company, confirming the electrical power arrangements, characteristics (Voltage, Phase, Transformer Type & KVA, Fault-Current, Etc.), metering arrangement and equipment locations. Copy Own/ Archt/ Engr. COORDINATION OF LV COMMUNICATIONS UTILITY- Coordinate & verify, in writing, with the

LV Communications Utility Company, confirming the LV Com Service routing, conduit quantity & sizes, termination locations, and other related requirements. PROVISIONS TO BE INCLUDED- Labor, supplies and materials, tools, equipment, etc.; installation of all electrical equipment & connections; coordination with other trades; material

shipping, delivery, receiving, storage, & protection; excavation, backfilling, cutting, patching and cleaning; guarantee for one year, plus any extended manufacturer's warranties; as-built reproducible Mylar record documents. MATERIALS- All materials shall be new, currently manufactured, U.L. labeled, and meet all industry standards. Label all equipment. Provide 3000 PSI class concrete for bases and backfill. Provide 3/4" thick A/D fire retardant grade backboards. Provide all support hardware

BARRIER PROTECTIONS: Verify each barrier, provide & install per UL, FIRE-SMOKE SEAL at each rated penetration to match the construction type & maintain the barrier rating. Utilize the roof installer / manufacturer for roof penetrations to maintain roof warranty.

MOTORS & CONTROLS- Motors are furnished and installed under other specification sections. Control and interlock wiring is furnished and installed under other specification sections. Individually mounted starters are furnished under other sections, mounted and power wiring connections provided under this section.

ELECTRICAL CONNECTIONS- Provide power wiring complete to all items. Coordinate actual equipment characteristics with drawing. Provide backboards for equipment mounting. Label all equipment and over-current protective devices with equipment name, voltage, ratings, and O.C.P. ratings.

INSTALLATION STANDARDS: All electrical work shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds..), related codes and the manufacturer's published requirements.

End Of Electrical Criteria - Basic Materials & Methods

## **ELECTRICAL CRITERIA - BONDING & GROUNDING**

BONDING & GROUNDING GENERAL: Provide components, conductors, fittings and hardware to provide for an electrical system that is completely bonded and grounded with the NEC and these requirements GENERAL REQUIRMENTS: Provide for the complete Bonding & Grounding of the entire

electrical system, including bonding for communication systems. BUILDING BONDING: Provide for the Bonding together of all metallic systems in the facility, including but not limited to, structural steel, slab rebar, water piping, fire-protection piping,

gas piping, HVAC system piping. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.

GROUNDING IN-GRADE CONDUCTORS: Bare, Tin-Plated Copper Of Size & Rating As Scheduled or Required. BONDING & GROUNDING CONDUCTORS:- #10 and smaller - solid copper THHN/THWN Green Jacket Color; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger -

stranded copper THHN/THWN identified with Green Tape. CONNECTIORS, IN-GRADE TYPE: UL Labeled for the application, location & use. Heavy-Duty Pure Wrought Copper fitting & devices. Compression type connections. BURNDY

HYGROUND Series or Equivalent. CONNECTIONS, COPPER- Twist on type for #8 and smaller copper conductors. Set screw/bolted type for #4 and larger copper conductors. Completely insulate each

connection, splice, termination GROUND RODS (ERITECH 683400 Rod): Provide 10 Foot Long, 0. 75 In Diameter, Tin-On-Copper 10 Mil. Plated Steel Pointed Ground Rod, driven into earth with top 18 Inches below finished grade with inspection/ test well cover, top flush with grade. ANSI/UL-467 & ANSI/ NEMA-GR1. Mechancial Direct-Burial Ground Connector or Exothermic-Weld all ground

cables to rods. GROUND ROD INSPECTION WELLS/ ERITECH Wells - Where indicated or required, provide Ground Rod Inspection/ Test Well & Cover, top flush with grade.

MASTER GROUND BAR (MGB) (BURNDY BBB or ERICO TGB/TMGB)- Provide bare solid Alloy 110 Cu bus bar, electro-tin-plated, with pre-punched holes for two-bolt ground lugs, mounted on stainless steel brackets with insulated flame-resistant stand-offs. 0.25 Inch Thick, 4 Inch High, 20 Inch Long. UL 467 & C22.2 Listed. Anchor to structural wall at height as indicated or noted. Connection to this bar shall be by two-hole bolt lugs, exothermic welded

or irreversible crimp connected to the respective cable. Locate at or near the electrical service main disconnect. Label MASTER GROUND BAR ISBT (Inter-System-Bonding-Termination) GROUND BAR (ISBT) (ILSCO PET or Equal):

Provide dual-rated, 8-hole lug with 2-predrilled mounting holes. Attach to each TELCO backboard for bonding of LV systems by others. Label ISBT GRND. INSTALLATION STANDARDS: All bonding & grounding shall be installed in accordance with the NEC, NEIS (Nat. Electrical Installation Stds.), related codes and the manufacturer's published requirements.

End Of Electrical Criteria - Bonding & Grounding

#	Rv #	ELECTRICAL CRITERIA - CONDUITS, BOXES & FITTINGS	Chk Off
ER- 01	-	GENERAL- All wiring for power and systems shall done in accordance with the applicable codes. All materials shall be U.L. labeled, matched for proper applications and installed in accordance with U.L. & manufacturer's requirements.	
ER- 02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
ER- 03	-	GENERAL UNDERGROUND- All underground, in-slab, exterior and exposed or surface mounted wiring shall be in conduits, unless otherwise directed.	
ER- 04	-	GENERAL CONCEALED- All wiring shall be concealed where possible (i. eabove ceilings, in walls, in slabs, or underground).	
ER- 05	-	GENERAL EXPOSED- Exposed conduits shall be routed as high as possible and parallel or perpendicular to structural elements.	
ER- 06	-	GENERAL BOXES- Provide boxes for all connections, devices, system, etc. Coordinate box sizes with structure to which it will be secured. Coordinate the exact final box location with the architectural/interior drawings prior to rough-in of box.	
ER- 07	-	CONDUITS, IMC- conduit & fittings shall be utilized for exterior exposed locations and interior exposed locations subject to damage.	
ER- 08	_	CONDUITS, EMT- EMT conduit & fittings shall be utilized for in slabs not on grade, concealed dry interior locations, interior exposed locations above 10'0" A. F. F. with set screw fittings indoor concealed dry locations and compression raintight fittings in slabs, and damp locations.	
ER- 09	=	CONDUITS, PVC- conduit & fittings shall be utilized in slabs on grade, conduits in earth. PVC fittings, boxes, etc. shall be of same manufacture with solvent bond. Depth per code.	
ER- 10	-	CONDUITS, FLEXIBLE- Flexible metallic conduit & fittings shall be utilized where motion or vibrations are encountered. Liquid-tight type flex shall be used in damp or wet locations, (i. e outdoors, kitchens, areas subject to wash down, shops & industrial areas, etc.). Provide ground wire in all flex.	
ER- 11	-	CONDUIT MISC. FITTINGS- Conduit expansion/deflection fittings shall be utilized where crossing expansion joints, floating slabs or isolated slabs. Conduit thru wall seals shall be utilized where crossing between interior/exterior or damp locations. Conduit fire seals shall be utilized where passing thru fire rated construction, U. L. fire and smoke seal to maintain the fire rating of the barrier.	
ER- 12	-	CONDUIT BOXES- Utilize interior stamped steel for indoors dry flush mounted devices.  Masonry/tile for indoors dry flush mounted devices. Concrete boxes for flush mounting in poured concrete. Cast metal boxes for surface mounted devices, or damp/wet locations.  Junction & pull boxes as required or needed. Galvanized steel wire-ways with hinged front cover, only permitted where noted.	
ER-	-	FLOOR BOXES - Utilize flush-in-floor type, adjustable post-pour, PVC base with brass flip-lid covers. Gang qty to match application & conduit entries., Covers to match device types.	

End Of Electrical Criteria - Conduits, Boxes & Fittings

SIESMIC BRACING & SUPPORT- All work shall be anchored, braced & supported in

Electrical Installation Stds.), NEC & related codes and the manufacturer's published

accordance with he Local Seismic Zone rating requirements.

Hubbell, Steel City or Wiremold

requirements.

#	Rv #	ELECTRICAL CRITERIA - LOW VOLTAGE CONDUCTORS	Ch
EC- 01	-	CONDUCTORS GENERAL: Provide conductors for all circuiting, wiring and systems.	
EC- 02	-	SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions.	
EC- 03	=	CONDUCTORS COLOR CODED: Each conductor shall be properly color coded to represent it's respective phase, neutral, ground, etc. Wire sizes #12 thru #8 shall have continuous color-coded jacket. Larger wire sizes shall have colored tape at each termination, pull-box, etc.	
EC- 04	-	CONDUCTOR LABELING: Each circuit labeled on the conductor and at each box.	
EC- 05	_	CONDUCTORS, COPPER- #12 & #10 - solid copper THHN/THWN color coded; #6 & 8 - stranded copper THHN/THWN black jacket; #4 & larger - stranded copper THHN/THWN. No conductors less than #12 Cu allowed, unless specifically noted or control wiring.	
EC- 06	-	CONDUCTORS, ALUMINUM- Aluminum (AL) not permitted unless noted. Where noted, conductors shall be compact strand type, THHN/ THWN.	
EC- 07	-	CONNECTIONS, COPPER- U.L. Listed, 600V, 90C rated; Twist on type for #8 and smaller copper conductors. Set-Screw, Bolted or Compression type for #4 and larger copper conductors. Completely insulate each connection, splice, termination.	
EC- 08	-	CONNECTIONS, ALUMINUM- U.L. Listed, 600V, 90C rated, compression, split-bolt, or set- screw type(s),for Aluminum or Dual-Rated. Completely insulate each connection, splice, termination.	
EC- 09	-	CONNECTIONS, DAMP & WET LOCATION- UL Listed 486D type connector for damp & wet locations, sealant filled type. IDEAL Model 66 or Equal	
C- 10	-	CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE, WATER-TIGHT- UL Listed 486D, 600V, 90C rated for In-Grade, Direct-Burial, Submersible.	
EC- 11	•	GROUNDING CONNECTIONS, IN-GRADE, UNDER-GROUND, SUBMERSIBLE- UL 467 Listed, 90C rated, Compress Or Bolt Type With Inhibiting compound; For Use In Earth or Concrete.	
EC- 12	-	METAL-CLAD (MC) CABLE (CONCEALED WIRING)- Contractor may utilize Metal-Clad (Type MC) for interior concealed branch circuit wiring in accordance with the code. All materials, fittings, hardware, etc. shall be U.L. labeled for use with MC cable and properly installed and supported. Type MC cable shall have an integral full length ground conductor, bonded to a ground lug or terminal at each end.	
EC- 13	-	INSTALLATION STANDARDS: All wiring & connects shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published requirements.	

and interference with work of other trades. SUBMITTALS- Provide compete submittals on all items. Mark & indicate specific items to be used. Submit prior to finalizing orders. Submit three sets min., or per General Conditions. LABELING & INSTALLATION EQUIPMENT LABELS: Provide Engraved Melamine Equipment Labels, Adhesive Attached To The Items Face Or Interior Cover. Label To Include Equipment Name, Voltage(s) And OCP Device Ratings If Applicable. SAFETY & WARNING LABELS: Provide Clear & Legible Safety & Warning Labels On Each Item Of Electrical Distribution Gear As Required By The NEC, OSHA & Other Regulations. ARC-FLASH LABELS: Provide Clear & Legible Arc-Flash Labels On Each Item Of Electrical Distribution Gear, Giving The Minimum Ratings, Arc-Flash Energy Level & Required PPE For Each Specific Location. SIESMIC BRACING & SUPPORT- Equipment shall be anchored, braced & supported in accordance with he Local Seismic Zone rating requirements. INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. Electrical Installation Stds.), NEC & related codes and the manufacturer's published LOW VOLTAGE OVER-CURRENT PROTECTIVE DEVICES OCP GENERAL- Provide over-current-protective (O.C.P.) devices as required by code and/or otherwise prescribed. All lugs and terminals 60/75 deg. C rated. MOLDED CASE (MC) CIRCUIT BREAKERS- Thermal-magnetic, bolt-in, quick-make/quickbreak type. Trip free operation with ON, OFF & TRIPPED position. Monolithic tie-handle common trip and common reset multi-pole breakers. Trip rating molded on handle or face. Lugs to match cable type terminations. Single pole 15 and 20 ampere breakers to be "SWITCHING" rated. DISCONNECT REQUIRMENTS - NEMA 1 enclosure indoors, NEMA 3R for damp/wet locations. Voltage, poles, amperage, fusible as required. Equipped with both isolated neutral and ground lugs. Class H, J, R or T fuse with rejection features. Provide switch label. DISCONNECTS 30AMP. – 200AMP (240V Max) - Labeled per UL #98. NEMA KS1 general duty type, load make/break rated. Interrupting rating of 100,000 RMS amps (with R/ T fuse). DISCONNECTS 400 & 600 AMPERES - Labeled per UL #98. NEMA KS-1 heavy duty type, INSTALLATION STANDARDS: Each item shall be installed in accordance with the NEIS (Nat. load make/break rated. Interrupting rating of 200,000 RMS amps (with fuse). DISCONNECT OVER 600 AMPERES- Labeled per Ulf #977, bolted pressure or high pressure contact type. NEMA heavy duty type, load make/break rated. Accept Class L fuses (as required). Interrupting rating of 200,000 RMS (with fusing). Manual close manual/electric trip open. Load side phase under voltage detection/trip. Zero sequence GFCI on switches 1000A @ 277 and greater. FUSES- Fuses shall be of same make, manufacturer, type & rating where providing two or three wire O.C.P. at a device. Provide Busman LOW-PEAK KRP-C. fuses (U.L. 198 C Class L) for protection over 600 amperes. Provide Busman LOW-PEAK LPN-RK (250V) or LPS-RK (600V) (U.L. 198E Class RK1) for protection up to 600 amperes. PANELBOARDS PANELBOARDS GENERAL- Provide dead front design with hinged & locking front cover door, NEMA 1 cabinet unless otherwise noted and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Series rated and labeled, unless indicated otherwise. Flush or surface mounted NEMA 1 enclosure. All lugs & terminals 60/75 deg. C rated. PANELBOARD STANDARDS- Labeled UL 67 and 50 (Cabinets, Boxes & Trim); NEMA 250 and PB1; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1. SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE). PANELBOARD INTERIOR- Factory assembled, double row construction. Staggered numbering, sequence phased. Tin-plated copper or aluminum busing. Full ampacity phase & neutral bus, 50% ground bus. OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria. PANEL DIRECTORIES - All Panel Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A) **SWITCHBOARDS** SWITCHBOARDS GENERAL- Provide equipment with dead front design and with devices as scheduled. Voltage, phase, ampacity and devices as scheduled. Service entrance rated as applicable. Free-Standing, NEMA 1 enclosure unless otherwise required. All lugs & terminals 60/75 deg. C rated. SWITCHBOARD STANDARDS- The equipment and all installed components shall be UL Listed & Labeled. Labeled UL 891; NEMA 250 and PB2; NFPA 70-384 and 373; Federal Specs. W-P-115c; Circuit Breakers- Type I Class 1 & Fusible Switches- Type II, Class 1. SHORT CIRCUIT RATING & ARC-FLASH LABELS: Match or exceed the Available Short Circuit Current available at the actual panel location; Properly label with Arc-Flash Energy Level & protective requirements (PPE). SWITCHBOARD INTERIOR- Factory preassembled, sequence phased. Tin-plated copper or aluminum busing unless otherwise noted. Full ampacity phase & neutral bus, 50% ground OCP DEVICES, COMPONENTS, ETC: Provide all over-current-devices and other components and related as scheduled and / or required. Refer to panel schedule for details. Refer to Over-Current Protective (OCP) devices criteria. CIRCUIT DIRECTORIES - All Circuit Directories Shall Be Current, Fully Detailed & Legible Per NEC-110.22 & 408.4(A) TRANSFORMERS TRANSFORMERS GENERAL- Provide dead-front dry-type transformer. Labeled per UL #506, conform with NEMA #250, #ST20 and TR27. General purpose air-cooled dry-type construction. Size, capacity, primary and secondary voltage, as indicated. NEMA 1 enclosure for indoor dry locations, NEMA 3R enclosure for damp/wet locations. Dead-front construction with removable covers. Maximum temperature rise by resistance of 115

degrees C. in a 40 degrees C. ambient. 75 degrees C. maximum terminal compartment with

End Of Electrical Criteria - Low Voltage Electrical Distribution Gear

60/75 degree C. lugs to match the conductor types. Two 2-1/2% above normal and four 2-

1/2% below normal full capacity winding taps.

**ELECTRICAL CRITERIA - LOW VOLT. ELECT. DISTRIB. GEAR** 

GENERAL ITEMS

GENERAL- Provide Low-Voltage Electrical Distribution Gear as required to provide for a

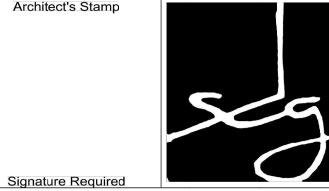
ELECTRICAL RATINGS- Prior to ordering or submitting any electrical distribution equipment,

EQUIPM. DIMENSIONS, CLEARANCES & ACCESS: Prior to ordering or submitting any electrical distribution equipment, verify dimensions, space requirements, clearances, access

verify all equipment ratings (Voltages, Phase, Short-Circuit With-Stand & Interrupting Ratings).

complete system to distribute electrical power.

LaGrange Lafayette Square DN- Rv **ELECTRICAL DISCLAIMERS & PROJECT NOTES** LIMITED ACCESS, CLEARANCE & SECURITY> This Is A Controlled Access & Secured Facility. Refer To Other Project Documents Regarding Contacts, Processes & Requirements To Gain Access. CONSTRUCTION MODs- This Project Consist Of The Modifications & Renovations To Selected Area(s) Of This Existing Facility & Modification To The Present Electrical System(s). COORDINATION GENERAL: Refer To The Architectural, Structural Plans & GC For Exact Locations & Mounting Heights & Other Item Details. Coordinate & Work Out Details With All Other Trades Prior To The Start Of Any Trades Rough-Ins. UTILITY POWER: Utility Power Is To Be Field Verified & Documented By The Contractor Prior To The Start Of Any Work. Confirm Voltages, Phase, & Available Fault Current. **EXISTING CONDITIONS**> This Project Involves Existing Conditions & This Contractor Is Responsible For Making An On-Site Review & Familiarizing Of All Existing Conditions & Providing For Accommodating The Existing Conditions In The Pricing For This Work, Prior To Work Start. **EMERGENCY EGRESS & EXIT LIGHTING**: Is Provided Via Battery Backup Units. Refer To The Lighting Fixture Schedule. TELCO & RELATED LV (Low-Voltage) SYSTEM(s): These System(s), If Present, Require Coordination & Input From The Owner & Owner's Provider-Installer During Construction. These Drawings Provide For The Main Service Conduits, Backboards And Grounds (As May Be Applicable). The Documents Do Not Provide For The Voice / Data Cabling, Hardware, Software Or Related Components, Coordinate With The Owner's Vendor / Installer. FIRE ALARM: Not In This Work-Scope. TELCO-VOICE-DATA SYSTEM(s): Not In This Work-Scope. TV-BROADBAND SYSTEM(s): Not In This Work-Scope. ACCESS CONTROL & SECURITY: Not In This Work-Scope. **END-USER RESPONSIBILITIES- LV SYSTEM:** Prior To Start Of Work, End-User Is Responsible For Coordinating & Establishing The Requirements Of Each LV (Low-Voltage) System (i.e. Telco, Voice-Data, Audio-Visual, Fire-Alarm, Security, Etc.) & Establish & Communicate Contacts (i.e. System Provider, Installer, Etc.) For Each System To contractor(s) For Their Use. **END-USER RESPONSIBILITIES:** To Review & Train In Proper Operations & Maintenance Of The Electrical Components & System. END-USER REVIEW & TRAIN: Contractor Is To Provide Complete Copies Of Legible Field Record Drawings (i.e.-As Built) & Review Them With The Owner & Owners Representatives. Train In Proper Operations & Maintenance Of The Electrical Components & System **END-USER RESPONSIBILITIES:** Regularly Test (Every 3 Months) GFCI & AFCI Devices To Ensure Proper Operation **END-USER RESPONSIBILITIES**: To Regularly Check, Test & Document Proper Operation Of The Emergency Lighting System. Refer To NFPA-101 & OSHA Regulations & Forms. End Of Disclaimer & Project Notes



SMITH DESIGN GROUP, INC. 206 WEST HARALSON ST LAGRANGE, GEORGIA 30240

706-882-5511 www.SDGarch.net



TMG Job #: 20.127

Copywright -TMG- 2020

THE MADDOX GROUP, INC. **DESIGN & ENGINEERING CONSULTANTS** 

#	Date	Revisions  Description
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-		
<sup>2</sup> roje	ct Title:	

LAFAYETTE SQUARE & FOUNTAIN LIGHTING **ENHANCEMNTS** 

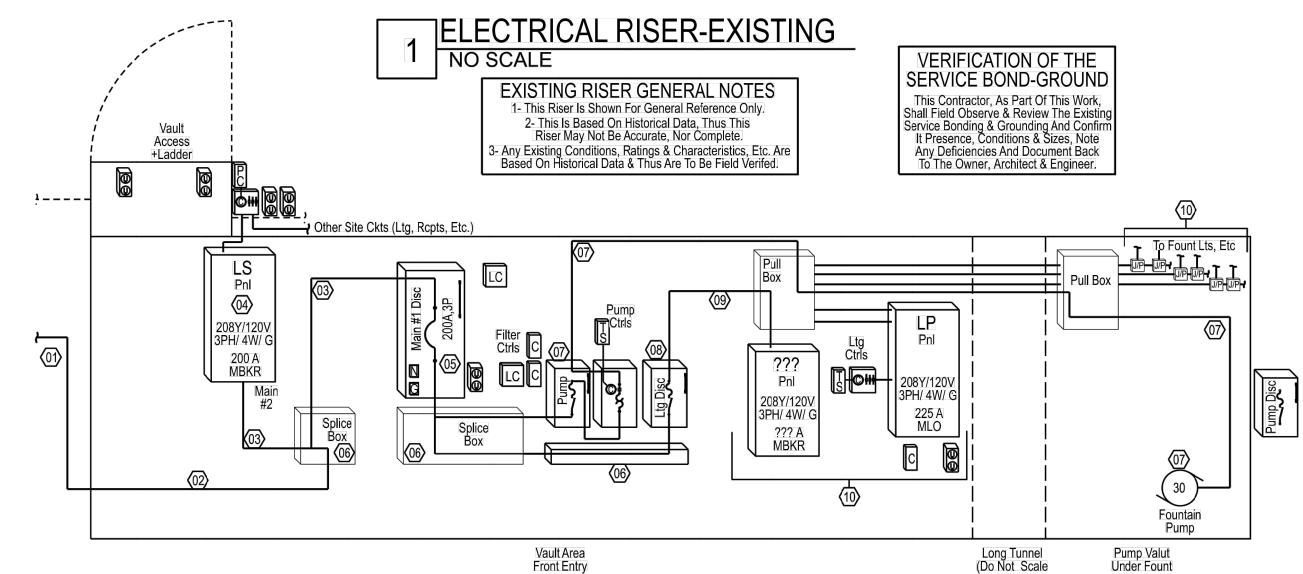
Lafayette Square LAGRANGE, GEORGIA 30240

Sheet Title:

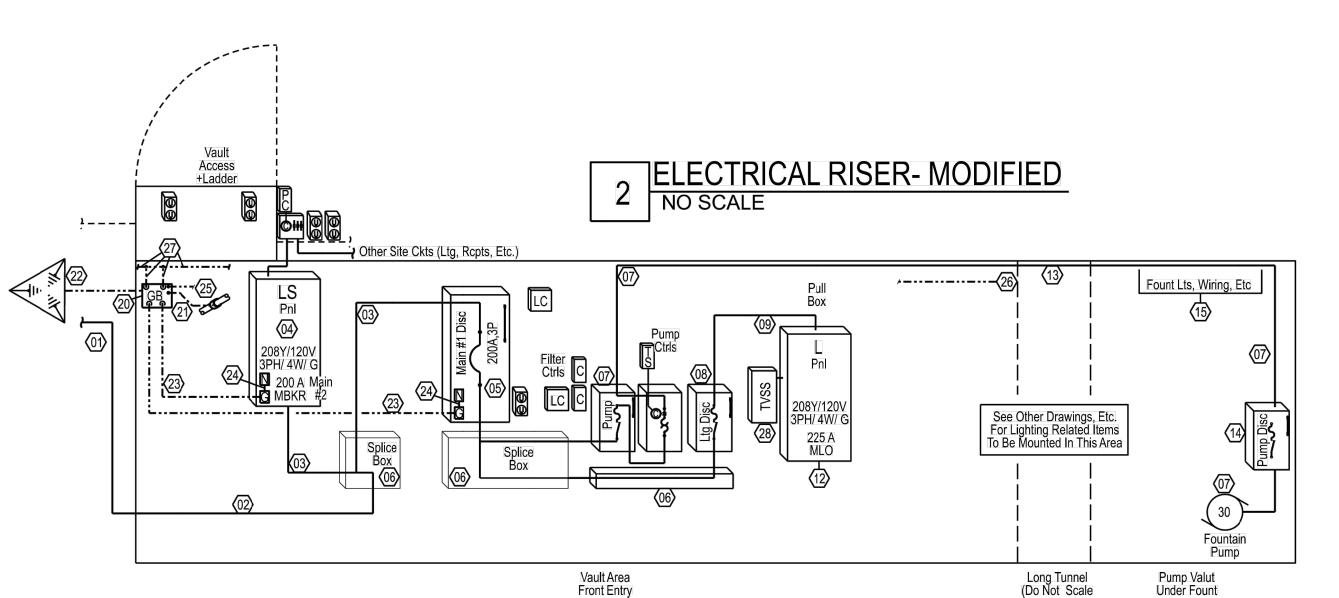
**ELECTRICAL** CRITERIA

Modified Date:	SDG Job No:
na	20-12
Issued Date:	Sheet:
07 OCT. 2020	E-01





Proje	ect:	LaGrange Lafa			L			Schd				LaGrai	nge, GA. 30240 City,St.					
Gen	Nt 1:	Bkr Ties On Multi-Wire Ckt		Volt- LL 208					Enclosure-Mtg: NEMA 4X				Wall Surf Mtd.					
Gen	Nt 2:	Seismic Certified & Seismic		Volt- LN			120		Cover & Door:		Standard		% Spare >	15%				
Gen Nt 3: Matching Pnl. Wire Gutter & Sectional Covers, Pnl To Clg. With Trim								Phs. 3			W. <b>4</b>		OCP Types:	Mair	ain - MCCB-60C/75C Branch- MCCB, 60C/		75C Lugs	
Gen Nt 4: NEW PANEL							Buss Amps			200		All Busing: CU			J or AL 100% N & G Busing			
Gen	Nt 5:	ALL MCCB's To Have GR	CI Protection, Un	less (	Otherwise N	loted.	Main OCP						Arc-Flash: Labeled Per NEC & OS			A		
Gen Nt 6:							Min.SCIR-kA:						Note:					
Rv	Nt	Description	Wiring	ID	W/VA	OCP	Р	#	Р	#	OCP	Р	W/VA	ID	Wiring	Description	Nt Rv	
		LTG: WA & WU	208V	L	1,000	20	-	1	Α	2	20	-	936	C	2# 10+ 10G	HVAC: Ductless System		
		208V	2# 10+10G	L	1,000	-	2	3	В	4	-	2	936	C	DS:30A,2P,G,N1	0.75T,208V,9MCA		
		LTG: WA & WU	208V	L	1,000	20	-	5	C	6	20	1	936	С	2# 12+ 12G	HVAC: Ductless ID Unit		
		208V	2# 10+10G	L	1,000	-	2	7	Α	8	20	1	840	C	2# 12+ 12G	HVAC:Dehumid,120V,7A		
		LTG: WA & WU	208V	L	1,000	20	-	9	В	10	20	1	700	L	2# 12+ 12G	LTG: Vault		
		208V	2# 10+10G	L	1,000	-	2	11	C	12	20	1	1,400	R	2# 12+ 12G	RCPT: Vault		
		LTG: WA & WU	208V	L	1,000	20	-	13	Α	14	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		208V	2# 10+10G	L	1,000	-	2	15	В	16	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		LTG Controls DMX	2# 12+ 12G	E	900	20	1	17	C	18	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		> Spare <	??		0	20	1	19	Α	20	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		> Spare <	??		0	20	1	21	В	22	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		> Spare <	??		0	20	1	23	C	24	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		> Spare <			0	20	1	25	Α	26	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		> Spare <			0	20	1	27	В	28	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		> Spare <	5.5.5		0	20	1	29	C	30	20	1	500	L	2# 12+ 12G	LTG Driver Pwr		
		< Blank Space >			0	BS	1	31	Α	32	BS	1	0		A2 2 2	< Blank Space >		
		< Blank Space >			0	BS	1	33	В	34	BS	1	0			< Blank Space >		
		< Blank Space >			0	BS	1	35	C	36	BS	1	0			< Blank Space >		
	1	TVSS Surge Protector			0	40	-	37	Α	38	BS	1	0			< Blank Space >		
		See Manuf Data			0	-	-	39	В	40	BS	1	0			< Blank Space >		
					0	-	3	41	С	42	BS	1	0			< Blank Space >		
Nt# 01- Non-GFCI MCCB Phs-						Α	32.8	%	52	Amp		6,276	VA	23.6	KVA Factored End Use	65 Am		
Nt# 02- Not Used Phs-					В	32.0	%	51	Amp		6,136	VA	0.0	KVA Pass Thru Load	0 Am			
Nt# 03- Not Used Phs						Phs-	C	35.2	%	56	Amp		6,736	VA	3.5	KVA Spare	10 Am	
Nt#	04-	Not Used				S	umm	ary =		53	Amp	to the state of th				KVA Total	75 A	
		MADDOX GROUP INC.			Prj #.	20-127					Dated:	20.0	9.21		Status:	Dsgn		





9309 Seminole Road
Jonesboro, Georgai 30236
770 - 471 - 9076
maddoxgroup@comcast.net

TMG Job #: 20.127
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THE MADDOX GROUP, INC. DESIGN & ENGINEERING CONSULTANTS

# Date Description

Project Title:

LAFAYETTE SQUARE

& FOUNTAIN LIGHTING ENHANCEMNTS

Lafayette Square

Lafayette Square LAGRANGE, GEORGIA 30240

Sheet Title:

ELECTRICAL RISER & SCHEDULES

Modified Date:

SDG Job No:

20-12

Issued Date:

07 OCT. 2020

Sheet:

E-02

Proj:	LaGrange Lafayette Square	LIGH	TING F	IXTU	RE - PC	WER	SUPP	LY - D	RIVER	- DMX CONTRO	OL MAT	RIX	
_oc:	LaGrange, GA. 30240												
		1	FOUNT	AIN BA	SIN LIGH	HTING	FIXTURI	ES & RE	LATED	T		ı	Г
Revs	Description-Use	Ltg Fixt ID-Tag	Sub-ID- Tag	Fount Sector	Ltg Fixt Item Nt #	Qty	Max Watts Ea	Ttl Watts	PSUID- Tag	PSU Model (DesignPlan#)	PSU Max Watts Load	DMX Group	Other Item Nt
	A-Upper Basin Wall UpLt Linear	Α	a	1		5	11	55	PAa	FPV-100-EL-0024	100	<b>A</b> 1	
	A-Upper Basin Wall UpLt Linear	Α	b	2		5	11	55	PAb	FPV-100-EL-0024	100	A2	
	A-Upper Basin Wall UpLt Linear	Α	С	3		5	11	55	PAc	FPV-100-EL-0024	100	A3	
	B-Upper Water Spary Arc Linear	В	d	1		5	11	55	PBd	FPV-100-EL-0024	100	B1	
	B-Upper Water Spary Arc Linear	В	е	2		5	11	55	PBe	FPV-100-EL-0024	100	B2	
	B-Upper Water Spary Arc Linear	В	f	3		5	11	55	PBf	FPV-100-EL-0024	100	В3	
	C- Scupper Out Flow Spot	С	g	1	01	3	9	27	PCg	FPV-100-EL-0024	100	C1	
	C- Scupper Out Flow Spot	С	h	2	01	2	9	18	PCh	FPV-100-EL-0024	100	C2	
	C- Scupper Out Flow Spot	С	i	3	01	3	9	27	PCi	FPV-100-EL-0024	100	C3	
	D- Upper Pedistal & Statue Spot	D	j	1	01	3	20	60	PDj	FPV-100-EL-0024	100	D1	
	D- Upper Pedistal & Statue Spot	D	k	2	01	2	20	40	PDk	FPV-100-EL-0024	100	D2	
	D- Upper Pedistal & Statue Spot	D	1	3	01	3	20	60	PDI	FPV-100-EL-0024	100	D3	
	E-Lower Basin Wall UpLt Linear	E	m	1		2	24	48	PEm	FPV-100-EL-0024	100	E1	
	E-Lower Basin Wall UpLt Linear	E	n	1		3	24	72	PEn	FPV-100-EL-0024	100	E1	
	E-Lower Basin Wall UpLt Linear	E	0	2		2	24	48	PEo	FPV-100-EL-0024	100	E2	
	E-Lower Basin Wall UpLt Linear	E	р	2		3	24	72	PEp	FPV-100-EL-0024	100	E2	
	E-Lower Basin Wall UpLt Linear	E	q	3		2	24	48	PEq	FPV-100-EL-0024	100	E3	
	E-Lower Basin Wall UpLt Linear	E	r	3	04	3	24	72	PEr	FPV-100-EL-0024	100	E3	
	F- Under Scupper Splash Spot	F	S	1	01	3	9	27	PFs	FPV-100-EL-0024	100	F1	
	F- Under Scupper Splash Spot	F	t	2	01	2	9	18	PFt	FPV-100-EL-0024	100	F2	
	F- Under Scupper Splash Spot	F	u	3	01	3	9	27 74	PFu	FPV-100-EL-0024 FPV-100-EL-0024	100	F3	
	G-Lower Water Spary Arc Linear	G	aa ab	1		2	37 37	74	PGaa		100 100	G1 G1	
	G-Lower Water Spary Arc Linear								PGab	FPV-100-EL-0024			
	G-Lower Water Spary Arc Linear	G	ac	1		2	37 37	74 74	PGac	FPV-100-EL-0024 FPV-100-EL-0024	100	G1	
	G-Lower Water Spary Arc Linear	G	ad	2		2	37	74	PGad PGae		100 100	G2 G2	
	G-Lower Water Spary Arc Linear G-Lower Water Spary Arc Linear	G	ae af	3		2	37	74	PGae	FPV-100-EL-0024 FPV-100-EL-0024	100	G2 G3	
	G-Lower Water Spary Arc Linear	G		3		2	37	74	PGag	FPV-100-EL-0024	100	G3	
	G-Lower Water Spary Arc Linear	G	ag ah	3		2	37	74	PGah	FPV-100-EL-0024	100	G3	
	H- Upper Pedistal & Statue Spot	Н	ba	1	01	2	30	60	PHba	FPV-100-EL-0024	100	H1	
	H- Upper Pedistal & Statue Spot	H	bb	1	01	2	30	60	PHbb	FPV-100-EL-0024	100	H1	
	H- Upper Pedistal & Statue Spot	H	bc	1	01	2	30	60	PHbc	FPV-100-EL-0024	100	H1	
	H- Upper Pedistal & Statue Spot	H	bd	2	01	2	30	60	PHbd	FPV-100-EL-0024	100	H2	
	H- Upper Pedistal & Statue Spot	H	be	2	01	2	30	60	Phbe	FPV-100-EL-0024	100	H2	
	H- Upper Pedistal & Statue Spot	H	bf	3	01	2	30	60	PHbf	FPV-100-EL-0024	100	H3	
	H- Upper Pedistal & Statue Spot	H	bg	3	01	2	30	60	PHbg	FPV-100-EL-0024	100	Н3	
	H- Upper Pedistal & Statue Spot	H	bh	3	01	2	30	60	PHbh	FPV-100-EL-0024	100	Н3	
	The opposition of the oppositi	1							W. Jac 1984				
evs	Description-Use	Ltg Fixt	Sub-ID-	Fount Sector	Ltg Fixt Item Nt	Qty	Max Watts	Ttl Watts	ID-Tag			DMX Group	Other
	WA D. L. S. S. S. W. S.				#	_	Ea					•	
	WA- Pole Spots- Pedistal & Statue	WA	a	1	02	1	50	50	PW.1a	See Details, Wiring,		J1	R,G,B,V
	WB- Pole Spots- Fount Basin	WB	b	1	02	2	50	100	PW.1a	Etc. For Related		J2	R,G,B,V
	WA- Pole Spots- Pedistal & Statue	WA	a	2	02	1	50	50	PW.2a	Control & Power		J3	R,G,B,V
	WB- Pole Spots- Fount Basin	WB	b	2	02	2	50	100	PW.2a	Supply Boxes,		J4	R,G,B,V
	WA- Pole Spots- Pedistal & Statue	WA	a	3	02	1	50	50	PW.3a	Cables, Etc.		J5	R,G,B,V
	WB- Pole Spots- Fount Basin	WB	b	3	02	2	50	100	PW.3a	(Lumenpulse CBX-		J6	R,G,B,V
	WA- Pole Spots- Pedistal & Statue	WA	a	4	02	1	50	50	PW.4a	xx Series)		J7	R,G,B,V
	WB- Pole Spots- Fount. Basin	WB	b	4	02	2	50	100	PW.4a	,		J8	R,G,B,\
	WU- Plant Up Ltg RGBW	WU	1b	1	03	6	39	234	PW.1b	See Details, Wiring, Etc. For Related		K1	R,G,B,V
	WU- Plant Up Ltg RGBW	WU	2b	2	03	6	39	234	PW.2b	Control & Power Supply Boxes,		<b>K</b> 1	R,G,B,\
	WU- Plant Up Ltg RGBW	WU	3b	3	03	6	39	234	PW.3b	Cables, Etc.		K4	R,G,B,

WU- Plant Up Ltg RGBW WU 4b 4 03 6 39 234 PW.4b xx Series)

End Of Schedule

# Lighting Fixture Note #

# Lighting Fixture Note #

WH0401-Louver

Casing + Louvre

# 01

# 02

# 03

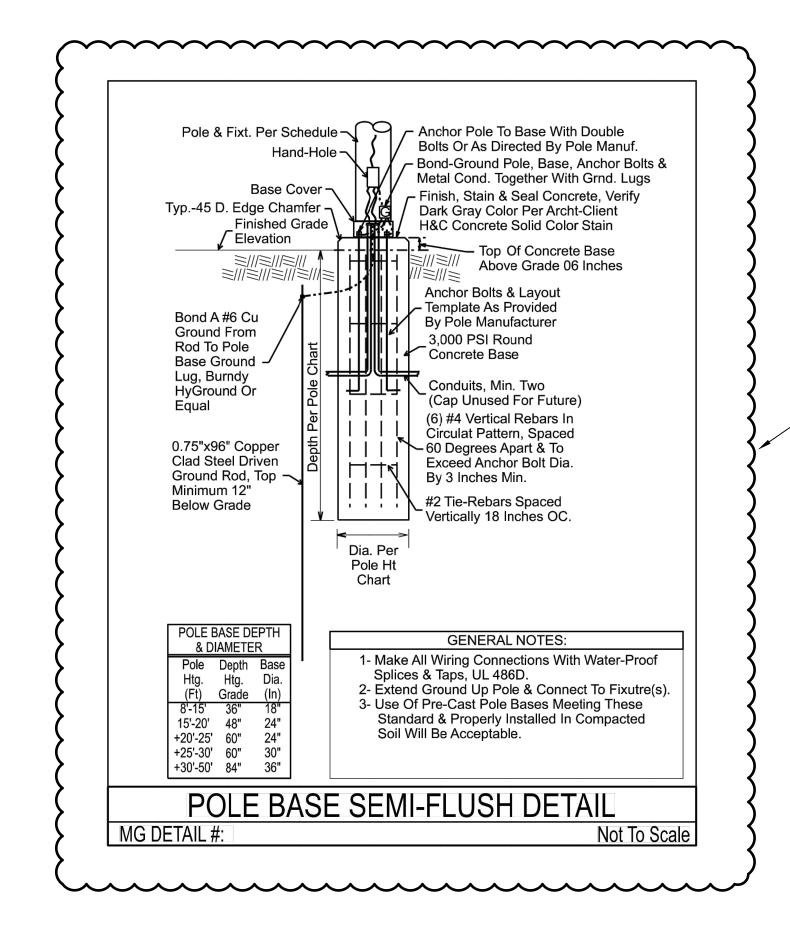
MADDOX GROUP INC.

(Lumenpulse CBX-

-- K4 R,G,B,W

MG#: 20-127

	.07	LaGrange Lafayette Square	
ID#	Rv #	ARCHITECTURAL SITE DMX-512 / RDM LTG. CONTROLS & RELATED	Ch
ADS- 8.01	-	GENERAL: Providing complete system to provide an Architectural Site Lighting DMX-512 / RDM based control system, including but not limited to controls, pre-assembled, pre-wired, Pre-Loaded software components, controls, power-supplies, and all components for a complete and properly operating system.	
ADS- 8.02	-	MANUFACTURER: The equipment shall be manufactured by a company that has been in the DMX Controls business for a minimum of 10 Years. All products shall be of this manufacturer's standard product line and been in production for	
ADS-		a minimum of 5 Years. All components and products shall provided by the same manufacturer for Unit-Responsibility.  DMX CONTROLS MANUFACTURER BASIS: LUMENPULSE PHAROS KIT (TPC & EXT). Other related supporting	
8.03	-	components that are compatible & matching by other manufacturers allowed.  ALTERNATE MANUFACTURER(s): Products of other manufacturers, providing at minimum the same level of product	
ADS- 8.04	=	quality, operation, functionality and features, must be submitted as add / deduct to this manufacture, with complete supporting documentation, for owner's considerations.	
ADS- 8.05	_	WARRANTY: The system manufacturer shall warrant the complete system with a Full-Service-Warranty on all parts and labor for a minimum of 5 Years.	
ADS- 8.06	-	CODES & CERTIFICATIONS: All products shall be UL Listed, CSA approved, and comply with EEMAC / NEMA standards & NEC.	
ADS- 8.07	=	DMX STANDARDS: Provide industry standard DMX-512 based communications. Asynchronous, Half-Duplex, Serial Protocol. Daisy-Chain Capable. DMX Cabling: 2-Pair, 24-AWG Tinned-Copper, 7x32 Stranded, 6.9-LeftHanded Twist Per Foot	
ADS- 8.08	-	SUBMITTALS - Prepare & submit project specific product documentation, including but not limited to, manufacturer's qualifications & personnel contact information, component product data, complete relay & component schedules and matching wiring diagrams for field use in the proper installation of the system.	
ADS- 8.09	-	LTG FXITRUE DMX COMPABILITY: Coordinate with other suppliers & trades and review the DMX controlled lighting fixture submittals to ensure DMX combability. Notify all related parties of any issues, etc.	
ADS- 8.10	-	TOUCH-PANEL-CONTROL (Lumenpulse-TPC): Provide TPC for user interface, programming, set-ups, scheduling, etc. Provide matching cabling, mounting hardware & protective enclosure.	
ADS- 8.11	=	TPC EXTENSION (Lumenpulse-EXT): Provide matching EXT (Extension) for TPC. Provide matching cabling, mounting hardware & protective enclosure.	
ADS-	_	PHAROS SOFTWARE: Provide, pre-loaded, PHAROS lighting control software to provide individually controllable and independently ruining timelines and scenes. The software engine shall allow one to build dynamic, precise, fully-	
8.12		customizable pre-programmed lighting displays, and allow for real-time manual overrides. Software shall provide for access control via multi-layered passwords, etc.	
ADS- 8.13	-	REMOTE ACCESS VIA ETHERNET: The system & software shall include provisions to allow remote-access via LAN-Ethernet & Internet.	
ADS- 8.14	-	WEB-PGAE ACCESS: The Install-Provider shall include establishing a "Custom" web-page for the owner to access the system via Internet.	
ADS- 8.15	-	DMX-RDM REPEATER (Pathway Connect - 4815, 12-Output): Provide a complete "Repeater" to receive DMX Signal and split & repeater that signal to multiple outputs. Pre-Configured, Pre-Wired & Assembled "Panel" complete with Multi-voltage power-supply. Inputs & Outputs Optically-Isolated. Daisy-Chainable For Multiple Units.	
ADS- 8.16	-	DMX -512 CABLING (Belden-9841): Unless specifically directed by the DMX manufacturer, all DMX Cabling shall be DMX Specific Type Cable: 2-Pair, 24-AWG Tinned-Copper, 7x32 Stranded, 6.9-LeftHanded Twist Per Foot With Outdoor Rated Jacket. Installed Per Code & Manufacturers Requirements. Each Cable Shall Be Labeled On Each End With Non-Fade Water-Resistant Labels-Tags. All wiring shall be conduit or other approved supports unless otherwise noted. The wire size shall be per the manufacturer. Wire size shall be increased to the next larger standard size for long runs per DMX manufacturer to maintain signal strength.	
ADS- 8.17	-	INSTALLATION PER MANUFACTURER, NEC, NEIS - The DMX Components, Software, Etc. Shall be installed in accordance with the manufacturer's written documentation, NEC & NEIS.	
ADS- 8.18	-	INSTALLED DOCUMENTATION - Provide three sets of As-Installed Field Record document of the completed system, showing all equipment, components & wiring. Include complete manufacturer & product documentation and warranty	
ADS- 8.19	=	forms.  INSTALLATION DEMONSTARTION & TRANING - The complete system(s) shall be fully demonstrated to the Owners Representative(s) to show full compliance and proper operation. Train the Owner's Personnel in the proper operation, programming and maintenance of the system.	
ADS- 8.19	-	SOFTWARE & TRANING - All related software, apps, etc. shall be fully installed. The Manufacturer's Representative(s) shall provide for the initial set-ups & start-ups. and also train the Owner's Personnel in the proper operation, programming and maintenance of the system. The Manufacturer shall provide post-startup support and any additional training via phone and "on-line". Manufacture shall notify owner of post-install updates and make available for download & installation.	
-		End Of Architectural Dimming System(s)	



	LaGrange Lafayette Square LaGrange, GA 30240			LIGHTIN	G FIXTUR Smith Design Gro		HED	ULE		20.10.01 Dsgr	Date Status		
	•			ntain Basin Light	ing Fixtures				Lu				
Fixt ID	Basic Generic Lighting Fixture Descriptions	Lighting Function	Ttl Mean Lumens		Ballast-Driver Type	Po	wer VA	Mount. Notes	Item Notes	Manufacturer Series / Model	Revs #		
	IP68, IK10, <b>24"</b> Linear LED R-G-B,	Upper Basin, Up-Light		LED; L85;	, , , , , , , , , , , , , , , , , , ,			UW On	01,	DesignPlan TREVI-1.0:	_		
Ax	Diffuse Opal Polycarbonate Lens, Stainless Steel Hardware. IP68, IK10, <b>24"</b> Linear LED R-G-B,	Pedistal Pool Base Wall	376-LU	B10>50kHrs		24VDC	11	Base	02	TR1000-6-D	-		
Вх	Diffuse Opal Polycarbonate Lens, Stainless Steel Hardware.	Upper Basin, Linear, Up- Light Water Spray Arc	376-LU	LED; L85; B10>50kHrs		24VDC	11	UW On Base	01, 02	DesignPlan TREVI-1.0: TR1000-6-D	-	Signature Required	
Сх	IP68, IK10, <b>Spot</b> LED R-G-B-W, Stainless Steel Hardware, Small Optics, Louver	Upper Basin, Spot Back-Light Scupper Water Flow	208-LU	LED; L85; B10>50kHrs		24VDC	09	UW On Base	01, 02	DesignPlan MOBY P1.1: MP1100-7-S-V; + Louver	1-	SMITH DESIGN GRO	
Dx	IP68, IK10, <b>Spot</b> LED R-G-B-W, Stainless Steel Hardware, Med. Optics, Louver	Upper Basin, Spot Back-Light Scupper Water Flow	628-LU	LED; L85; B10>50kHrs		24VDC	20	UW On Base	01, 02	DesignPlan MOBY P2.1: MP2100-7-M-V; + Louver	-	LAGRANGE, GEORGIA 3 706-882-5511	30240 www.SD0
Ex	IP68, IK10, <b>48"</b> Linear LED R-G-B, Diffuse Opal Polycarbonate Lens,	Lower Basin, Up-Light Lower Pool Base Wall	786-LU	LED; L85; B10>50kHrs		24VDC	24	UW On Base	01, 02	DesignPlan TREVI-1.1: TR1100-6-D	-		ROTA
Fx	Stainless Steel Hardware.  IP68, IK10, <b>Spot</b> LED R-G-B-W, Stainless Steel Hardware, Med Optics, Louver	Lower Basin, Spot Up-Light Direct Under Scupper Flow	208-LU	LED; L85; B10>50kHrs		24VDC	09	UW On Base	01, 02	DesignPlan MOBY P1.1: MP1100-7-M-V; + Louver	-		2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Gx	IP68, IK10, <b>71"</b> Linear LED R-G-B, Diffuse Opal Polycarbonate Lens,	Upper Basin, Linear Up-Light On Fountain Water Spray	1197-LU	LED; L85; B10>50kHrs		24VDC	37	UW On Base	01, 02	DesignPlan TREVI-1.2: TR1200-6-D	-	9309 Seminole Road Jonesboro, Georgai 30236 770 - 471 - 9076 maddoxgroup@comcast.net	photo Sp.
Нх	Stainless Steel Hardware. IP68, IK10, <b>Spot</b> LED R-G-B-W, Stainless Steel Hardware, Med	Lower Basin, Spot On Statue	1090-LU	LED; L85; B10>50kHrs		24VDC	30	UW On Base	01, 02	DesignPlan MOBY P3.1: MP3100-7-M-V; + Louver	-	TMG Job #: 20.127 Copywright -TMG- 2020	OBERT
	Optics, Louver											,g	
	404.452			Misc.Lighting Fi	xtures		1	1				THE MADDOX GROU	
	48-L, LED Multi-Purpose Strip-Light, Curved Frosted Polycarb.Diffuser, Damp Location, 5- Yr Warranty End-Caps Occ-Sensor Fixt Mtd	Vault & Tunnel Utility Lights	4,556- Lu	LED, <b>80</b> -CRI, <b>35</b> k-CCT; L80>60kHrs	Fixed; 10%- THD; 0.95PF	UNV 120- 277	41 (4Ft)	SM-PH		Columbia Series <b>MPS</b> -04-Fi 80CRI 35kCT ML CP W E Unv EndCaps OX CableMt	:	DESIGN & ENGINEERING CONSU	JLTANTS
X0	NEMA-4X, Vandal-Resistant Batt. Egress 2-LED MR16 Head Light Unit, 50F-104F; Self-Diagnostic- Testing-Alarm, UL-924, 5-Yr Warr	Vault & Tunnel Utility Lights	34x06 @15H	(2) 200-Lum; 06V 4.0 W LED.01 MR16 Heads	/- 06 VDC Sealed Lead-Calcium NiCad NiMH	UNV- 120, 277	7.5	Clg / WM High	1	LightAlarms Series: "Severe- V" 2-VG1-LD1-Color-DA+ T3 CW4 SMC	1		
		<b>~~~~</b>		Other Lighting F	Ktures	$\sim$		$\sim$	$\sim$	~~~~			
WA Fixts	IP66, LED R-G-B-W, Flood Light, Short-Yoke With Pole Attachment, Snoot, Matching Data-Power Cables	Statue & Pedistal	~ 787- LU	Veritcial Narrow Flood	See Matrix For Remote PSU	50	208	Pole Mtd	03	LumenBeam LBL Series	-		
WB Fixts	IP66, LED R-G-B-W, Flood Light, Short-Yoke With Pole Attachment, Snoot, Matching Data-Power Cables	Fountain Basins	~ 787- LU	Horizontal Medium Flood	See Matrix For Remote PSU	50	208	Pole Mtd	03	LumenBeam LBL Series	1 -		
WP Pole	25 Foot Round, 08 -In. Dia, Slotted Pole For Fixture Mounting, Top-cap, Hand-Hole For Wiring, Base & Matching Cover, & Anchor Bolts.	Verify Color With Architect- Owner			,			See Pole Base Dtl		Lumenpulse LumenTech SmartPole	-	}	
WU	IPoo, IKTO, LED R-G-B-W, Wae- Optics, Cover Lens, Walk-Over (1,000kG) Rated. Block-Out Base. Adjustable Aim. Matching Data-	In-Ground Plant Up-Lights	~ 787- LU	90x25 Spread	See Matrix For Remote PSU	35	208	Direct Burial	03	LumenBeam LBIL Series	-	POST LIGHTS ARE PART OF	ADD. AL
	Power Cables										-		
DMY	See Lighting Controls Criteria Regard			NG CONTRO			Equipm	ont Coffwar	o & Dro	gramming Set Line Etc			
	See Lighting Controls Official Regard	aling Matching Lumer disermand				repeater	Ечиріп	erit, Soliwar	<del>-</del> α 1 10		-		
1	Remote Power-Driver-DMX Controll	or Paguired, See Details & May		ECIFIC ITEM		Mount C	On Conc	Rlock Base	For D	ost Install Adjustments, See De	taile		
	Field Verify Data-Power Cable Type		.uix i oi A	ad. Illioilliation.			on Conc	. DIOCK Dase	71011	ost msian Adjustrients, dee De	uli3		
	-1		ERAL N	IOTES - APP	LICABLE TO	ALL							
Α-					B-								
C-	Misc. Abbreviations			Lawren	/ Ballast / Driver	Torres				Mounting Terms			
FBO-	Furnished By Owner Complete U.N.	0.		CRI	Color Rending In		amp)	BFC-	Below	Finished Ceiling			
	Fixt. Material Cost With Lamps & Hard			xx K	Kelvin (Lamp Col			CB-		ete Base- See Details			
IBC -	Installed Complete By Contractor, U.I	N.O.		Lum	Lumens (Lamp Li	ight Outpu	ıt)	FIC-	Flush	In Ceiling			
				mA	Milli-Amp (LED D	river Rati	ng)	FIG-	Flush	In Grade			
				PS	Programmed Sta								
	Provided By Contractor			STA	Self-Test & Alarm			PH-		Hung,Htg As Ntd; Per Archt.			
SBO-	Selected By Owner			RS	Rapid Start			_		e Mtd On Ceiling Or Structure			
		AL TEO	NATEC	THD I PRIOR API	Total Harmonic D			VVIVI-	vvali IV	Itd- Htg As Noted; Per Archt.			
AA	Project Base Quote Shall Be Based O				FROVAL REG	KUESI							
	Lighting Products Of Other Manufactu	The same of the sa			gual Or Better Perf	ormance (	Control	Enerav Lif	e. Liaht	Source, Operation Ftc.) Are			
	Acceptable. Provide Proof Of Complia		ested.	BMITTALS RE	0.1	мпос (		,orgy, LII	-, <b>-</b> .yııl	- Sa. So, Operation, Ltd./ Are		Revisions # Date Descri	ption
	A Complete Submittal Is Required, Instamp" Of The Supplier, Sub-Co		erials, & Ir	ndividual Product D	ata. The Submitt					atement" & Reviewed			
SB	Each Items Cut-Sheet Shall be Label	ating Full Complian	ce With TI	he Crite			quirements.						
MADDO	DX GROUP INC.			End Of Lighting	Fixture Schedule - Sch	ee Lighting	Criteria				20-127		:
												I	

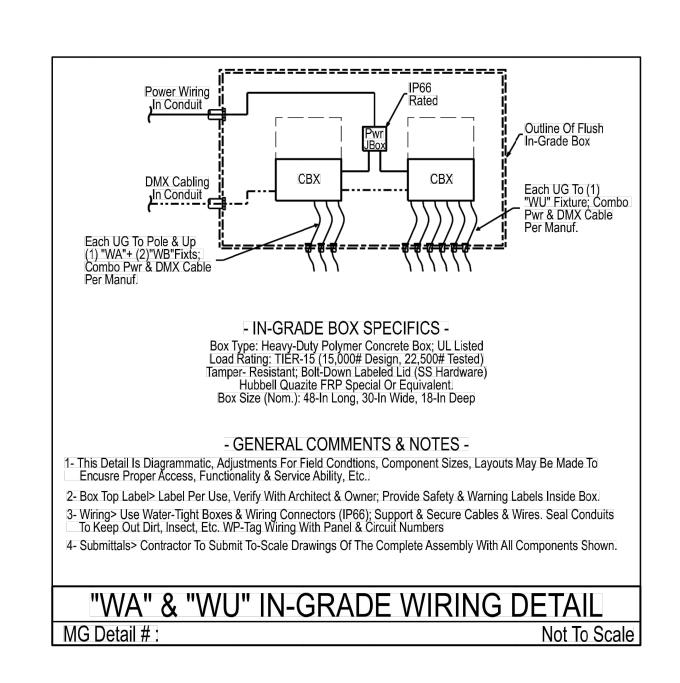
POST LIGHTS ARE PART OF ADD. ALT. NO. 1

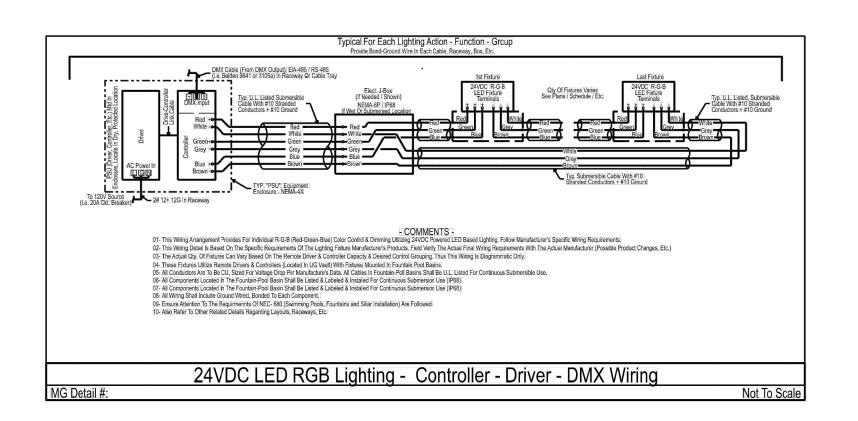
LAFAYETTE SQUARE & FOUNTAIN LIGHTING ENHANCEMNTS Lafayette Square LAGRANGE, GEORGIA 30240 Sheet Title: **ELECTRICAL** LIGHTING SCHEDULES

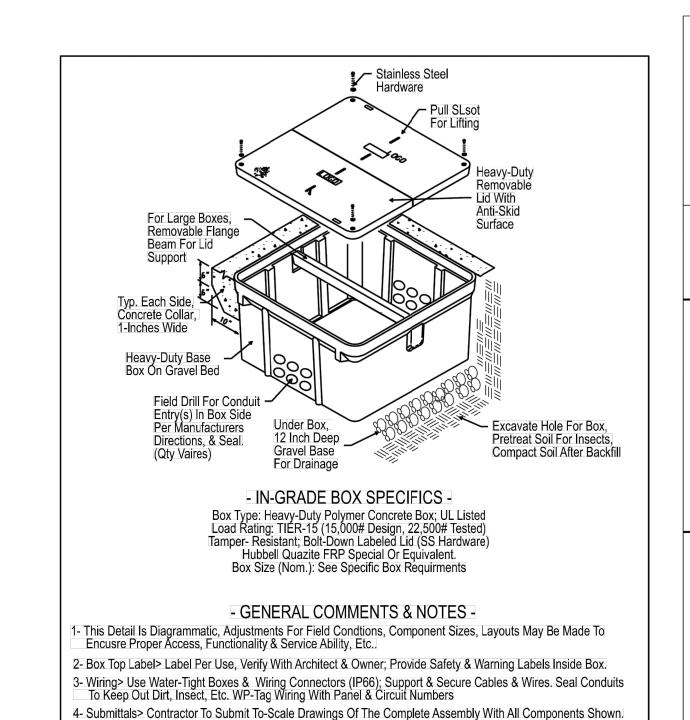
& CRITERIA

Architect's Stamp

Modified Date: SDG Job No: Issued Date: E-03 07 OCT. 2020







TYP. IN-GRADE BOX DETAIL

MG Detail #:

Not To Scale

Architect's Stamp

Signature Required

9309 Seminole Road Jonesboro, Georgai 30236 770 - 471 - 9076

maddoxgroup@comcast.net

TMG Job #: 20.127 Copywright -TMG- 2020

706-882-5511

SMITH DESIGN GROUP, INC.

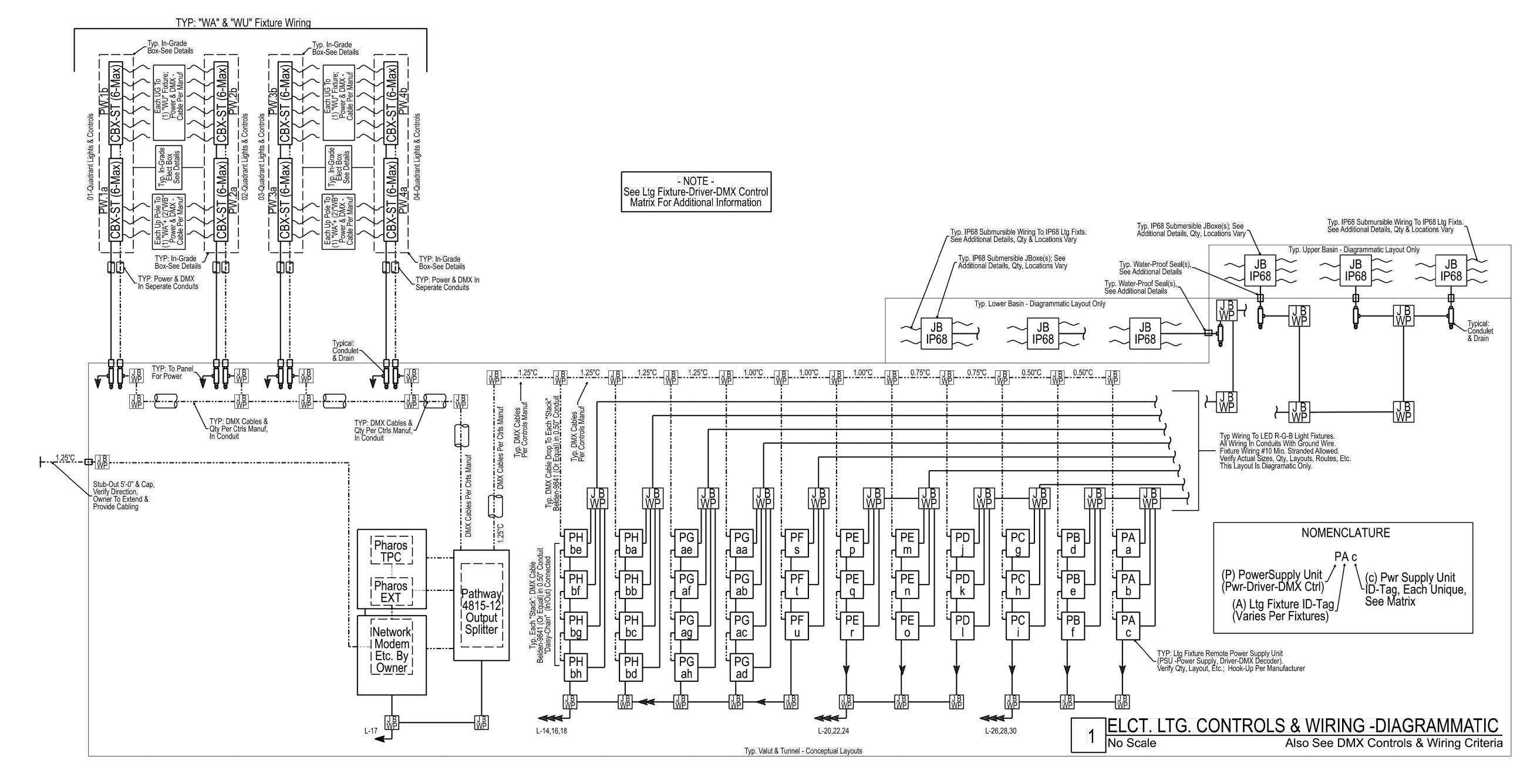
206 WEST HARALSON ST

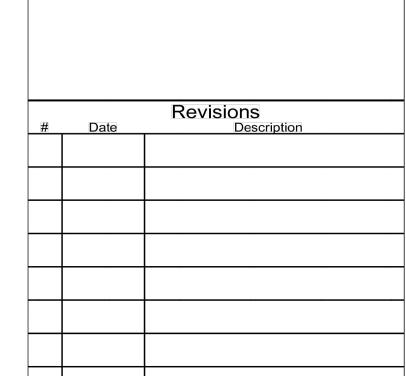
LAGRANGE, GEORGIA 30240

THE MADDOX GROUP, INC.

DESIGN & ENGINEERING CONSULTANTS

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### LAFAYETTE SQUARE & FOUNTAIN LIGHTING **ENHANCEMNTS**

Lafayette Square LAGRANGE, GEORGIA 30240

Sheet Title:

**ELECTRICAL** & CONTROLS WIRING & RELATED

Modified Date:	SDG Job No:
na	20-12
Issued Date:	Sheet:
07 OCT. 2020	E-04

