





GREENVILLE, NORTH CAROLINA

CONSTRUCTION DRAWINGS SIGN PACKAGE

PROJECT NUMBER: GVL21001 DATE: OCTOBER 26, 2023

> SHEET INDEX C2.00 C3.00 L5.00 A1.00 A1.02 E001 E002 E101 E201 E202 S-1

NOTE



OVERALL, SITE, GRADING, AND EXISTING CONDITIONS PLAN DETAILS LANDSCAPE PLAN AND NOTES SIGN WORKING DRAWINGS ALTERNATE SIGN WORKING DRAWINGS STANDARDS, SYMBOLS & ABBREVIATIONS ELECTRICAL SPECIFICATIONS ELECTRICAL SITE PLAN ELECTRICAL DETAILS ELECTRICAL SCHEDULES MONUMENT SIGN FOUNDATION PLAN

SHEETS C2.00, C3.00, AND L5.00 ARE PROVIDED FOR REFERENCE ONLY AND ARE NOT IN THE CONTRACT. THE CITY OF GREENVILLE WILL SELF-PERFORM THE WORK SHOWN ON THESE SHEETS AND WILL COORDINATE CONSTRUCTION OF THE SIGN WITH THE SIGN CONTRACTOR.

NCDOT CONDITIONS:

1. INDEMNIFICATION OF THE DEPARTMENT FROM LIABILITY FOR PERSONAL INJURY AND PROPERTY DAMAGE INCLUDING HIGHWAY RELATED DAMAGE.

2. NCDOT'S RIGHT TO REMOVE ART FROM THE RIGHT OF WAY DUE TO SAFETY/MAINTENANCE CONCERNS OR CONFLLICT EITH FUTURE ROAD MAINTENANCE / CONSTRUCTION AT NO COST TO DOT.

3. NCDOT RESERVES THE RIGHT TO REPRODUCE ART FOR PROMOTIONAL PURPOSES WITHOUT PAYING COMPENSATION, REGARDLESS OF COPYRIGHT STATUS.

4. NCDOT RESERVES THE RIGHT TO ALTER INFRASTRUCTURE, LANDSCAPE, AN OTHER TRANSPORTATION RELATED ELEMENTS NEAR AND ADJACENT TO THE ART WHEN REQUIRED FOR MAINTENANCE AND OPERATION OF THE TRANSPORTATION ACILITY.



The John R. McAdams Company, Inc 2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

CONTACT

JASON GALLOWAY galloway@mcadamsco.com PHONE: 919. 808. 5385

CLIENT

KEVIIN MULLIGAN, PE DIRECTOR OF PUBLIC WORKS CITY OF GREENVILLE 200 W 5TH STREET kmulligan@greenvillenc.gov PHONE: 252. 329. 4522



PROJECT DIRECTORY

SIGN DESIGN **BIZZELL DESIGN INC.** PO BOX 785 BELMONT, NC 28012 PHONE: 704. 651. 3528



BIZZELLDESIGN Civic Branding, Signage & Wayfinding Programs City Gateway Designs, Information Kiosks Themed Commercial Environments

REVISIONS

NO. DATE



GREENVILLE SIGNAGE GREENVILLE, NORTH CAROLINA PROJECT NUMBER: GVL21001



GENERAL SITE PLAN NOTES:

OWNER'S REP PRIOR TO CONSTRUCTION.

- 1. THIS CONSTRUCTION DOCUMENTS SET HAS BEEN CREATED TO ILLUSTRATE THE GENERAL DESIGN INTENT OF THE PROJECT. THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REP. AND NOTIFY HIM AS ADDITIONAL INFORMATION IS NEEDED TO PROPERLY CONSTRUCT/INSTALL/BUILD ELEMENTS DEPICTED HEREIN.
- 2. THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS TO THE EXTENT NECESSARY TO DETERMINE THE EFFECTS OF SUB-SURFACE CONDITIONS ON THE WORK AND SHALL BID AND CONSTRUCT THE WORK IN ACCORDANCE WITH HIS FINDINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES AND UNUSUAL CONDITIONS TO
- ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE GRASSED BY SEEDING, FERTILIZING, MULCHING, AND WATERING AS REQUIRED TO OBTAIN AN ACCEPTABLE GROUND COVER, UNLESS SPECIFIED OTHERWISE. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION INSIDE OR OUTSIDE THE LIMIT OF WORK SHALL BE REPAIRED, GRADED, AND GRASSED AT THE CONTRACTOR'S EXPENSE.
 CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AND ALL AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.
- 7. CONTRACTOR SHALL RESTORE DAMAGED FINISHES AND REPLACE DAMAGED OR DEFECTIVE UNITS.
- CONTRACTOR SHALL STAKE ALL HARDSCAPE AREAS TO BE COMPLETED AND OBTAIN APPROVAL FROM OWNER'S REP. AND/OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION. ANY WORK PERFORMED WITHOUT APPROVAL IS AT RISK FOR REPLACEMENT BY THE CONTRACTOR.
 ALL FIELD ADJUSTMENTS SHALL RECEIVE APPROVAL FROM OWNER'S REP. PRIOR TO CONSTRUCTION.
- TEMPORARY EROSION & SEDIMENT CONTROLS (SILT FENCES, ETC.) SHALL BE INSTALLED AT INLETS, PIPES, AND LIMITS OF WORK AREAS WHERE SURFACE RUN-OFF OCCURS UNTIL SOIL STABILIZATION IS COMPLETE.
 CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING THE REPAIR OF EROSION AREAS UNTIL GRASS HAS
- REACHED THE LEVEL OF FINAL ACCEPTANCE. 12. ALL EXISTING TREES TO BE SAVED WILL HAVE TREE BARRICADES INSTALLED AROUND THEM PRIOR TO BEGINNING OF DEMOLITION. ALL WORK IN THOSE AREAS TO BE DONE BY HAND. FENCES SHALL BE MAINTAINED AND KEPT IN PLACE AT
- ALL TIMES. 13. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL LOCAL, STATE, AND FEDERAL AGENCIES AND REGULATIONS.
- 14. CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION AREAS AND ASSOCIATED ACTIVITY DURING CONSTRUCTION.
- 15. DIGITAL BASE FILE SHALL BE MADE AVAILABLE FOR USE IN FIELD LOCATION OF ELEMENTS AND SITE FEATURES. ANY HARDCOPY INFORMATION THAT CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REP. AND/OR LANDSCAPE ARCHITECT. HARDCOPY INFORMATION SHALL PREVAIL.
- CONTRACTOR SHALL COORDINATE CONDUIT LOCATIONS (I.E., ELECTRICAL, ETC.)
 NO SPECIMEN TREES FOUND ON SITE. NO SPECIMEN TREES TO BE REMOVED.

GENERAL LAYOUT NOTES: 1. ALL DIMENSIONS ARE TO EDGE OF PAVING UNLESS OTHERWISE INDICATED.

2. BASE MAP INFORMATION AND TOPOGRAPHY FROM NCDOT DESIGN DRAWINGS PROVIDED BY

GENERAL GRADING NOTES:

- 1. NO DEMOLITION TO OCCUR PRIOR TO PRE-CONSTRUCTION MEETING.
- 2. EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO ANY WORK BEING DONE.
- WASHED STONE AND WIRE BACKING SHALL BE USED WITH SILT FENCE WHENEVER SILT FENCE IS PLACED AT THE TOE OF A SLOPE >10' VERTICAL OR ALONG ANY CHANNEL OR WATER COURSE WHERE 50' OF BUFFER IS NOT PROVIDED.
 CONSTRUCTION OPERATION SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS
- ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION
- MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
- THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDING & STRUCTURE FOUNDATIONS.
 EXISTING SPOT ELEVATIONS TO BE FIELD VERIFIED.
- 8. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER, UNLESS CERTIFIED BY REGISTERED GEOTECHNICAL ENGINEER.
- 9. FOR SLOPES GREATER THAN 10' IN LENGTH AND PROTECTED BY SILT FENCE AT THE TOE OF THE SLOPE, SLOPE TERRACING WILL BE REQUIRED.
- 10. FILL MATERIAL FOR EMBANKMENTS SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVERSIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE BEING CONSTRUCTED. SPILLWAYS SHOULD NOT BE CONSTRUCTED THROUGH FILL SECTIONS. ALL SPILLWAYS SHOULD BE LINED AND/OR RIP-RAPPED.
- 11. ALL DISTURBED AREAS TO BE SEEDED PER THE SCHEDULE ON L5.00.

GRADING NOTES

- L. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
- 3. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
- 4. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD PRIOR TO ANY LAND DISTURBING ACTIVITY. AS DEEMED NECESSARY, THE OWNER, ENGINEER, CONTRACTOR, AND REPRESENTATIVES FROM NCDOT WILL BE INVITED TO ATTEND THE MEETING.
- 5. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TIMING OF REMOVAL SHALL BE COORDINATED WITH NCDOT AND THE OWNER REPRESENTATIVE.
- 5. SOIL UNDER FOUNDATIONS AND WITHIN SLOPES LESS THAN 4:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

GRADING LEGEND

~~	DRAINAGE FLOW ARROW
+ 250.60	SPOT ELEVATION
—— TP —— TP —— TP ——	TREE PROTECTION FENCE
LD LD	LIMITS OF DISTURBANCE
——————————————————————————————————————	SILT FENCE
SF SF	SPECIAL SILT FENCE
250	MAJOR CONTOUR
252	MINOR CONTOUR
250	EXISTING MAJOR CONTOUR
252	EXISTING MINOR CONTOUR

NOTES:

1. NO STORAGE OF MATERIALS, PARKING OF VEHICLES OR DELIVERIES SHALL TAKE PLACE OUTSIDE OF THE LIMIT OF WORK.

2. ALL WORK SHALL BE CONTAINED TO THE LIMIT OF WORK AS SHOWN ON THE PLANS.





Know what's below. Call before you dig.

PLANS PROVIDED FOR REFERENCE ONLY. WORK SHOWN IS NOT IN CONTRACT. CITY OF GREENVILLE TO PROVIDE ALL DEMOLITION, GRADING AND LANDSCAPING SCOPE.



The John R. McAdams Company, Inc. One Glenwood Avenue Suite 201 Raleigh, NC 27603 phone 919. 823. 4300 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

CLIENT

CITY OF GREENVILLE 200W 5TH ST GREENVILLE, NORTH CAROLINA PHONE: 252. 329. 4521







NO. DATE

PLAN INFORMATION

SHEET	
DATE	10. 26. 2023
SCALE	PER PLAN
DRAWN BY	JJB
CHECKED BY	EMD
FILENAME	GVL21001-S1
PROJECT NO.	GVL21001

overall, site, grading and existing conditions plans **C2.00**





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NO. DATE

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DETAILS

C3.00

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PLANT SC	CHEDU	LE				GENERAL LANDSCAPE NOTES:
TREES	<u>CODE</u>	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>CAL</u>		1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF GREENVILLE AND STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
	IXA	5	llex x attenuata 'Fosteri' Foster's Holly	3" min		 CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEN OR INSTALLATION
$\left(\underbrace{\cdot}_{\mathcal{C}} \right)$	QSI	4	Quercus shumardii Shumard Oak	3" min		 CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIO DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
<u>SHRUBS</u>	<u>CODE</u> BTCP	<u>QTY</u> 26	<u>BOTANICAL / COMMON NAME</u> Berberis thunbergii 'Crimson Pyamy'	<u>HEIGHT</u> 12"min		 ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING STRUCTURES, GRADING, ETC., REFE STRUCTURAL, SITE AND GRADING PLANS.
<u>ې</u>	PVCN	26	Crimson Pygmy Japanese Barberry	15 gal		 VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OLANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARC CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE
		077	Cloud Nine Switch Grass	CONT	SDACING	REGULATIONS. 9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF V. SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1
GROUND COVERS	LMLT	<u>QIY</u> 399	<u>BOTANICAL / COMMON NAME</u> Liriope muscari	Flat	<u>SPACING</u> 12" o.c.	 AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMER NURSERY & LANDSCAPE ASSOCIATION. 10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOR THE PLANT, MISLIANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ADCULTECT.
			Lilyturf			 ALL PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCH OWNER.
	DOTM	38,984 sf	NCDOT stabilization seed mix See NCDOT Specifications	Seed		 ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTION BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
JRBANCE	\mathbb{C}					
2E - 2E	0 2	7	∽		TRUNK FLARE BALL SHOULD FINISHED GRAI	AND TOP OF ROOT BE 2" ABOVE DE AFTER SETTLING AND TOP OF ROOT BE 2" ABOVE AND TOP OF ROOT BE 2" ABOVE AT LO CM PAISED RING OF SOIL TO DIRECT WATER INTO ROOT BALL OF SOIL 1Y IMPORTANT IF TOP
RE-SEED DISTURBE	D AREA ¬		45		WDTH OF PLA BE 3 TIMES T DIAMETER IN H OR CLAY SOLL ROOT BALL IN ALL OTHER	ANTING HOLE SHALL HIGHLY COMPACTED ; 2 TIMES THE IAMETER MINIMUM S. VVVVVV
-•			43		DIG WIDE P TAPERED S CUT BURLA BASKET AV SIDES OF F	EXISTING GRADE YYYYY LANTING HOLE WITH AP, ROPE AND WRE WAY FROM TOP AND ROOT BALL AND REMOVE
			15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DURING BA SET ROOT TO PREVE NOTE	CKFILL PROCESS. T BALL ON UNDISTURBED SOIL TO STABILIZE, COMPACT A PLANTING SOIL MIX BACKFILL AROUND ROOT BALL; COMPACT SOIL BY SOAKING WITH WATER AND OR LIGHTLY HAND TAMPING. ES: LIFCT TREES THAT HAVE: STRONG CENTRAL LEADER: CROWN WITH FULL FOLIAGE: ARE GROWN IN HEAVY
			59		2. BE WW 3. A PL 4. IF OL CC 5. TH MC	AY SOIL WITH DRIP IRRIGATION. FORE INSTALLING PLANTING SOIL MIX BACKFILL AROUND ROOT BALL, BE SURE TO SOAK HOLE TO CONFIRM ATER FILTERS THROUGH UNDISTURBED SOIL. DESIGN ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED. SOIL EXPERT CAN BE CONSULTED TO HELP MODIFY AND FERTILIZE TOPSOIL TO CREATE AN ACCEPTABLE ANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC TREE SPECIES. USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE JTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE INTAINER. IOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST INTH AFTER PLANTING AND DURING DRY PERIODS.
		Sr Sr	9	01	SCALE: 3/8"=1'-	o"
•	ć				3" MIN. — MULCH	4"-6" CONTINUOUS AROUND ROOTBALL
	SF /		dL	F		
SF SF	107		EXISTING TREE (TYP.)			ENSURE THAT SUBGRADE DRAIN ON TO GRADE OUTSIDE PLANT BED AT PERIODIC LOCATIONS ALONG LOWER SIDE OF SHRUB BED. MAINTAIN POSITIVE DRAINAGE IN EXISTING SWALES.
- LD				03	ORNAME	ENTAL GRASS PLANTING
	~	~			SCALE: 1/2"=1'-	0"
					TYPIC, OF PL SPACI CURVI PLAN OUTSI TO FO CURVE SHOW PLAN FINISH GRADE	AL EDGE ANT BED CAL NG IN LINEAR BEDS, DE ROW DLLOW E AS N ON HED HANT SCHEDULE) AR SPECIFIED O.C. SPACING (SEE PLANT SCHEDULE) 1/2 OF SPECIFIED O.C. SPACING (SEE PLANT SCHEDULE) 4" MULCH HED HANT SCHEDULE) 4" MULCH
					MIN. A	6" MIN. MENDED SOIL

PLANS PROVIDED FOR REFERENCE ONLY. WORK SHOWN IS NOT IN CONTRACT. CITY OF GREENVILLE TO PROVIDE ALL DEMOLITION, GRADING AND LANDSCAPING SCOPE

O5 GROUNDCOVER PLANTING SCALE: 3/8"=1'-0"







- 04 SHRUB INSTALLATION SCALE: 3/8"=1'-0"

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR **EXCAVATION TO HAVE EXISTING UTILITIES** LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.





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NO. DATE

PLAN INFORMATION

PROJECT NO.	GVL21001
FILENAME	GVL21001-LS1
CHECKED BY	JBG
DRAWN BY	JJB
SCALE	1"=20'
DATE	10. 26. 2023
SHEET	







Bizzell Design Inc. PO Box 785 Belmont NC 28012 / McAdams 2905 Meridian Parkway, Durham, NC 27713

Revised 4/5/2023 / HLB



CUPOLA BASIS OF DESIGN SIGN CONTRACTOR TO MATCH APPEARANCE OF CUPOLA PER THIS BASIS OF DESIGN. SEE NOTES ON THIS SHEET FOR COLOR



General Fabrication Notes:

The entire tower structure is fabricated using 1/8" aluminum sheeting on frame structure for all vertical surfaces. Horizontal surfaces will require 1/4["] thick aluminum sheeting for load bearing purposes. The aluminum frame system requires 4" x 4" aluminum sq. tubing. All joints are welded and ground smooth. Aluminum sheet-ing is welded to the frame from the inside of the cabinets.

Based on the plan, the entire structure is shop fabricated as 8- separate components that assemble on site and stack as a final unit. Access doors will be placed in the back side of the unit to allow room for assembly and maintenance.

All letters custom fabricated internally illuminated aluminum channel letters with white LED lighting system. All wiring, transformers and controllers will be hidden inside the green sign cabinet. The large "Greenville" channel letters have an illuminated faced and halo lighting back. The return thickness is 10". They are stem mounted to the sign base and reinforced with mounting studs into the green backdrop panel.

The sign backdrop panels are self supporting fabricated 1/8" aluminum cabinets built in three sections. The lighted, curved accent is fabricated like a channel letter with green translucent sign face.

Before final fabrication - the sign company will be required to provide the City of Greenville a fabricated - lighted test panel showing the white LED lighting and the curved accent top panel.



also mount to the tower to provide additional support.





SHEET A1.00

backdrop panels.



Alternate Design

DESIGN INTENT FOR ALTERNATE: SIGN TO BE FABRICATED IN MODULAR UNITS TO ALLOW PART B TO BE REPLACED TO INCREASE HEIGHT OF SIGN.





Fabricator to provide access door for lighting and electrical componenets to be housed internal to the sign





CUPOLA BASIS OF DESIGN - SIGN CONTRACTOR TO MATCH APPEARANCE OF CUPOLA PER THIS BASIS OF DESIGN. SEE NOTES **ON THIS SHEET FOR COLOR**

Right Side View



General Fabrication Notes:

assembly and maintenance.

panel.

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24″



Note: The sign panels also mount to the tower to provide additional support.

12″ _____







Note: Five inch diameter poles provide wind load support for the backdrop panels.



ELECTRICAL ABBREVIATIONS

ELECTRICAL ABBREVIATIONS

POINT: POTENTIAL TRANSFORMER

POLYVINYL CHLORIDE (CONDUIT)

SIGNAL NOTIFICATION APPLIANCE CIRCUIT

ROUND; DIAMETER; PHASE

SURGE PROTECTED DEVICE

SINGLE POLE DOUBLE THROW

SINGLE POLE SINGLE THROW

TOTAL HARMONIC DISTORTION

UNLESS NOTED OTHERWISE

VOLTS ALTERNATING CURRENT

VARIABLE FREQUENCY DRIVE

UNDERWRITERS LABORATORIES INC.

Í				
	А	AMPERES OR AMP METER	PT	POINT; POTENTIAL TRAN
	AC	ALTERNATING CURRENT	PUN	PER UNIT NAMEPLATE
	AF	AMP FRAME	PVC	POLYVINYL CHLORIDE (C
	AFC	ABOVE FINISHED CEILING	RD	ROUND
	AFF	ABOVE FINISHED FLOOR	REV	REVISION
	AFG	ABOVE FINISHED GRADE	RLA	RATED LOAD AMPS
		AMERICAN NATIONAL STANDARDS INSTITUTE	SNAC	SIGNAL NOTIFICATION A
	ARCH	ARCHITECTURAL	SP	SURGE PROTECTED
	AT	AMP TRIP	SPD	SURGE PROTECTED DEVI
	ATS	AUTOMATIC TRANSFER SWITCH	SPDT	SINGLE POLE DOUBLE TH
	AWG	AMERICAN WIRE GAGE	SPEC	SPECIFICATION
	BFC	BELOW FINISHED CEILING	SPST	SINGLE POLE SINGLE TH
	BFG	BELOW FINISHED GRADE	SQ	SQUARE
	С	CELSIUS; COIL	SWBD	SWITCHBOARD
	CB	CIRCUIT BREAKER	SWGR	SWITCHGEAR
	CCTV	CLOSED CIRCUIT TELEVISION SYSTEM	TBB	TELEPHONE BACK BOARD
	CD/Ca		M	TELECOMMUNICATIONS
			TEMP	TEMPERATURE
	CONTR	CONTRACTOR	THD	TOTAL HARMONIC DISTO
	CT	CURRENT TRANSFORMER	ΤV	TELEVISION
	CTV	CABLE TELEVISION	TYP	TYPICAL
	CU	COPPER	UL	UNDERWRITERS LABORA
	DWG	DRAWING	UNO	UNLESS NOTED OTHERW
	EC	ELECTRICAL CONTRACTOR	V	VOLTAGE; VOLT
	ECB	ENCLOSED CIRCUIT BREAKER	VAC	VOLTS ALTERNATING CU
ļ	EF	EXHAUST FAN	VDC	VOLTS DIRECT CURRENT
ļ	EGC	EQUIPMENT GROUNDING CONDUCTOR	VFD	VARIABLE FREQUENCY D
ļ	ELEC	ELECTRICAL	VUL \\/	
ļ	EMT		۷۷ ۱۸//	WITH
ļ			WG	WIRFGUARD
ļ			WP	WEATHERPROOF
ļ	FWC		XFMR	TRANSFORMER
	FACP		XP	EXPLOSION PROOF
	FATC	FIRE ALARM TERMINATION CABINET	Z	IMPEDANCE
	FFE	FINISHED FLOOR ELEVATION	Ø	ROUND; DIAMETER; PHA
	FL	FLOOR		
	FLA	FULL LOAD AMPS		
	FLC	FLEXIBLE LIQUIDTIGHT CONDUIT		
	FLEX	FLEXIBLE		
	FMC	FLEXIBLE METAL CONDUIT		
	FT	FEET; FOOT		
	FU	FUSE		
	GA			
	GC	GENERAL CONTRACTOR		
	GEC			
	GFI,	GROUND FAULT (CIRCUIT) INTERRUPTER		
	GFCI			
	GND	GROUND		
	HD	HEAVY DUTY		
	HOA	HANDS-OFF-AUTOMATIC		
	HP	HORSEPOWER		
		HEATING, VENTILATING & AIR CONDITIONING		
	IMC			
	JB	JUNCTION BOX		
	KV	KILOVOLT		
	KVA	KILOVOLT AMPERE		
ļ	KW	KILOWATT		
ļ	KWH	KILOWATT HOUR		
ĺ	LED	LIGHT EMMITING DIODE		
ĺ	LRA	LOCKED ROTOR AMPS		
ļ	LS	LIFE SAFETY		
ļ	LIG			
ļ	MC	METAL CLAD		
ļ	MCR			
ļ	MCC	MOTOR CONTROL CENTER		
ļ	MCP	MOTOR CONTROL PROTECTOR		
ļ	MCS	MOLDED CASE SWITCH		
ļ	MH	MANHOLE		
ļ	MIN	MINIMUM		
ļ	MLO	MAIN LUG ONLY		
ļ	N, NEU	NEUTRAL		
ļ	NEC	NATIONAL ELECTRICAL CODE		
ļ	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIAT		
ļ	NF	NON-FUSED		
ļ	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
ļ	NIC	NOT IN CONTRACT		
ļ	NL	NIGHT LIGHT		
ļ	NO	NORMALLY OPEN; NUMBER		
ļ	NOM	NOMINAL		
ļ	NTS	NOT TO SCALE		
ļ	OC	ON CENTER		
ĺ	OL	OVERLOAD		
ĺ				
ĺ	۲ DP			
ĺ	PD PC			
ĺ	PF	POWER FACTOR		
ĺ	PH	PHASE		
ļ	PNL	PANEL		
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Ci i	WALL MTD LICUTINC EIVTLIDE AND OUTLET
(\cdot)	
\odot	PENDANT LIGHTING FIXTURE AND OUTLET
0	DOWNLIGHT LIGHTING FIXTURE AND OUTLET
	WALL MTD LIGHTING FIXTURE AND OUTLET
•	CEILING MTD LIGHTING FIXTURE AND OUTLET
⊗ H	WALL MTD EXIT SIGN AND OUTLET, SINGLE FAC
\otimes	CEILING MTD EXIT SIGN AND OUTLET, DUAL FAC
20	DIRECTION. EMERGENCY LIGHT BATTERY PACK - TWO HEAD
	CEILING MOUNTED EMERGENCY BATTERY LIGHT
R	EMERGENCY LIGHT REMOTE HEAD
\triangleright	GROUND MOUNTED FLOODLIGHT AND OUTLET
□-●	AREA LUMINAIR AND STANDARD
S	FLUSH MTD TOGGLE SWITCH, SPST, 20A, 120/27
S ₂	FLUSH MTD TOGGLE SWITCH, DPST, 20A, 120/27
S	FLUSH MTD 3-WAY TOGGLE SWITCH, 20A, 120/2
S ₄	FLUSH MTD 4-WAY TOGGLE SWITCH, 20A, 120/2
S D	FLUSH MTD DIMMER SWITCH, 20A, 120/277V
ט S,,	FLUSH MTD KEY SWITCH, 20A, 120/277V
K Soc	FLUSH MOUNTED OCCUPANCY SENSOR SWITCH.
- US S-	FLUSH MTD LIGHTED HANDLE TOGGLE SWITCH.
<u> </u>	LIGHT ON WITH OPEN SWITCH
S _P	FLUSH MTD TOGGLE SWITCH WITH PILOT LIGHT
ST	TIMED SWITCH
69.5	CEILING MTD INFRA-RED OCCUPANCY SENSOR S
OSU.	CEILING MTD ULTRASONIC OCCUPANCY SENSOR
କ୍ର ଜ	
ODT	CEIEING MID DOAE TECHNOLOGT (IN, 0) OCCUP
PC	PHOTOCELL
ŧ	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W
€G	FLUSH MTD DUPLEX GFCI RECEPTACLE, 20A, 125
θu	
00	125V, 3W
0	FLUSH MTD SINGLE RECEPTACLE, 20A, 125V, 3W
+	FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125
o	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W TOP OUTLET SWITCHED.
€	FLUSH MTD DUPLEX RECEPTACLE, 20A, 125V, 3W
	VERTICALLY 4" ABOVE BACKSPLASH OR COUNTER BACKSPLASH EXISTS.
\$ =	FLUSH MTD QUADRUPLEX RECEPTACLE, 20A, 125 VERTICALLY 4" ABOVE BACKSPLASH OR COUNTE BACKSPLASH EXISTS.
ХЮЭН	WALL MOUNTED POWER DEVICE, REFER TO SCH
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	FLOOR BOX WITH DEVICE(S) REFER TO SCHEDI
FB ^X ∕∰	FLOOR BOX WITH DEVICE(S). REFER TO SCHEDI
FB ^X ▲	FLOOR BOX WITH DEVICE(S). REFER TO SCHED
EB× ▲\	FLOOR BOX WITH DEVICE(S). REFER TO SCHEDU WALL MTD TELECOM OUTLET, REFER TO SCHEDU CEILING MTD DUPLEX RECEPTACLE AND OUTLET
EB× ▲ ●	FLOOR BOX WITH DEVICE(S). REFER TO SCHEDU WALL MTD TELECOM OUTLET, REFER TO SCHEDU CEILING MTD DUPLEX RECEPTACLE AND OUTLET CEILING MTD TELECOM OUTLET, REFER TO SCH
	FLOOR BOX WITH DEVICE(S). REFER TO SCHEDU WALL MTD TELECOM OUTLET, REFER TO SCHEDU CEILING MTD DUPLEX RECEPTACLE AND OUTLET CEILING MTD TELECOM OUTLET, REFER TO SCH CEILING MTD DUPLEX RECEPTACLE & TELECOM SCHEDUI ES FOR MARK
	FLOOR BOX WITH DEVICE(S). REFER TO SCHEDU WALL MTD TELECOM OUTLET, REFER TO SCHEDU CEILING MTD DUPLEX RECEPTACLE AND OUTLET CEILING MTD TELECOM OUTLET, REFER TO SCH CEILING MTD DUPLEX RECEPTACLE & TELECOM SCHEDULES FOR MARK CEILING MTD PUBLIC ADDRESS SPEAKER
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ELECTRICAL SYMBOLS

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CE. ARROW INDICATES	M
CE. ARROWS INDICATE	SPD F
UNIT.	 ©
г	(SD) _{SB}
77V	Ē
77V	୍ତ୍ୟ ଭ୍ୟ
277V	SB (BD)-1
277V	С. Ч
	Ŭ ₩¢-#
, 20A, 120/277V	≤ ¢ [#]
, SPST, 20A, 120V.	[C]¢#
	HQ# \cong #
	بير » (ج) #
	Õ #
SWITCH	X #
	0H)
FANCE SENSOR SWITCH	M
	(FS)
	(I) (PV)
	\sim
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V	R
5V, 3W	
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ERTOP IF NO	(P)H
HEDULES FOR MARK	DACT
	FAAP
T 204 12EV 2W	FACP
T, ZUA, 125V, SW HEDULES FOR MARK	FATC
1 OUTLET, REFER TO	
	<u>ж</u> Т
OUTLET	PB
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OF CIRCUITS, LETTERS TS. SHORT TICK MARKS	ET
ASE CONDUCTORS. LONG	
N. CONDUCTOR SIZES	RLH

CUIT PHA UND IOWN. CONDUCTOR SIZES MANDATORY FOR THE ATIONS REQUIRE A SIZE

LETTER DESIGNATES TYPE UG-IN CIRCUIT BREAKER OR D SWITCH RATING AS NOTED. ME SIZE

MAGNETIC MOTOR STARTER.

TCH WITHOUT OVERLOAD

NO INDICATES CB RATING. 40" AFF, PROVIDED BY IRED BY ELECTRICAL

LE DE SIZE)

FLUSH MOUNTED PUSH BUTTON SUPPLEMENTAL GROUND BAR GROUND PER NEC ELECTRICAL DEMAND METER SURGE PROTECTION DEVICE WALL MTD FIRE ALARM PULL STATION SMOKE DETECTOR, CEILING MTD SMOKE DETECTOR WITH SOUNDER BASE, CEILING MTD SMOKE DETECTOR, CEILING MTD, MULTI SENSOR CEILING MTD REMOTE ALARM INDICATOR LAMP SMOKE DETECTOR, DUCT MTD (WITH RAIL) HEAT DETECTOR, CEILING MTD SMOKE DETECTOR, WALL MTD SMOKE DETECTOR WITH SOUNDER BASE, WALL MTD WALL MTD HEAT DETECTOR WALL MTD REMOTE ALARM INDICATOR LAMP (RAIL) WALL MTD HORN TYPE AUDIO/VISUAL APPLIANCE WALL MTD SPEAKER TYPE AUDIO/VISUAL APPLIANCE WALL MTD CHIME TYPE AUDIO/VISUAL APPLIANCE WALL MTD VISUAL ALARM APPLIANCE CEILING MTD HORN TYPE AUDIO/VISUAL ALARM APPLIANCE CEILING MTD SPEAKER TYPE AUDIO/VISUAL ALARM APPLIANCE CEILING MTD CHIME TYPE AUDIO/VISUAL ALARM APPLIANCE CEILING MTD FIRE ALARM VISUAL DEVICE DOOR HOLDER FIRE ALARM MONITOR MODULE FLOW SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS TAMPER SWITCH FIRE ALARM CONNECTION, SWITCH PROVIDED BY OTHERS POST INDICATOR VALVE FIRE ALARM CONNECTION, VALVE PROVIDED BY OTHERS FIRE ALARM TEMPERATURE SENSOR FIRE ALARM CONTROL MODULE OR RELAY CEILING MTD FIRE ALARM SPEAKER FIRE ALARM BELL; # INDICATED DIAMETER IN INCHES LINEAR BEAM TRANSMITTER LINEAR BEAM RECEIVER FIRE ALARM WALL MTD SPEAKER FIREMAN'S 2-WAY TELEPHONE FIRE ALARM ISOLATION MODULE FIRE ALARM ASPIRATION SMOKE DETECTOR DIGITAL ALARM COMMUNICATIONS TRANSMITTER FIRE ALARM ANNUNCIATOR PANEL

FIRE ALARM CONTROL PANEL

DOOR CONTROL ID TAG

SECURITY PANIC BUTTON

EMERGENCY TELEPHONE

RESCUE ASSISTANCE STATION

RESCUE ASSISTANCE LIGHT

EXISTING TO REMAIN

NEW WORK

EXISTING TO BE DEMOLISHED

_ _ _

FIRE ALARM TERMINAL CABINET

SECURITY SYSTEM KEYPAD, 60" AFF

CCTV SECURITY CAMERA WITH FIXED MOUNT CCTV SECURITY CAMERA WITH PTZ FEATURES

MASTER RESCUE ASSISTANCE STATION

ACCESS CONTROL CARD READER

SUPPLEMENTAL NOTIFICATION APPLIANCE CABINET

FLUSH MOUNTED MUSHROOM HEAD PUSH BUTTON

ELECTRICAL GENERAL NOTES

- ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE UTILIZED FOR THIS PROJECT. SYMBOLS NOT SHOWN ON THIS ELECTRICAL SYMBOL LEGEND ARE IDENTIFIED ON THE DRAWINGS WHERE THEY OCCUR.
- UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS OR ON THE DRAWINGS, MOUNTING HEIGHT OF DEVICES IS TO BE THE CENTERLINE OF THE DEVICE.
- UNLESS OTHERWISE INDICATED, SWITCHES AND SIMILAR DEVICES ARE TO BE LOCATED 42" AFF; RECEPTACLES ARE TO BE VERTICALLY MOUNTED AT 18" AFF WITH THE GROUNDING TERMINAL ON THE BOTTOM.
- TELEPHONE & DATA OUTLETS ARE TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE INDICATED. "W" INDICATES MOUNTING AT 42" AFF; "C" INDICATES MOUNTING ABOVE COUNTERTOP WITH ALIGNMENT AND HEIGHT AS INDICATED FOR RECEPTACLES SIMILARLY MOUNTED.
- UPPER CASE LETTER (OR LETTER/NUMBER COMBINATION) ADJACENT TO FIXTURE OR SWITCH DESIGNATES TYPE. SEE FIXTURE SCHEDULE FOR DETAILS.
- LOWER CASE LETTER ADJACENT TO FIXTURE OR SWITCH DESIGNATES CONTROL RELATIONSHIP. NUMBER ADJACENT TO FIXTURE, SWITCH, OR RECEPTACLE DESIGNATES CIRCUIT CONNECTION.
- SINGLE DIAGONAL LINE ACROSS A FIXTURE INDICATES FIXTURE IS UNSWITCHED FOR 24 HOUR OPERATION.

ELECTRICAL CIRCUITING KEY





DESCRIPTION OF WORK

Scope: The scope of work under this section includes the furnishing and installation of complete electrical distribution system modifications and any other miscellaneous systems or items as are shown on the Drawings or described in these specifications. Work included in this section is described on drawing sheets prefixed with "E-", and any other sheets referenced by these sheets or these

specifications. The Contractor shall provide all supervision, labor, materials, equipment, machinery and any and all other items necessary to complete the described systems. Other Documents: Notice to Bidders, Instructions to Bidders, General Conditions of the Contract, General Requirements, Addenda (if Issued), and Supplementary General Conditions that are provided with the

Drawing package are a part of the Specifications for the electrical work and together with the Electrical Drawings comprise the Contract Documents for the electrical work. Codes, Laws, and Regulations: All work performed under this contract shall be accomplished in strict accordance with National, State, and Local codes.

License & Privilege Permits: The Contractor in submitting his proposal certifies that he has the proper class NC license, privilege permit(s), and any local licenses or privilege permits required for the work

Entire Cost to Owner: The entire cost to the Owner of the work in this section, including any necessary fees, permits or tax shall be included in the proposal of the Contractor.

Construction Permits: The Contractor shall obtain, in a timely manner, all necessary permits to perform the work described by the contract documents at no additional expense to the Owner. The Contractor shall make all arrangements for required progress inspections. All inspections shall be made in a timely manner; any reinspection necessary to obtain final approval of the work shall be made with no additional cost to the Owner.

Intent: The intent of these Specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. Any apparatus, appliance, material or work not shown on drawings but mentioned in the Specifications or vice versa, or any incidental accessories necessary to make the work complete in all respects and ready for operation, even if not particularity specified, shall be furnished, delivered, and installed by the Contractor without additional expense to the Owner.

Basis of Design: The electrical design for this project is based on the requirements of the National Electrical Code (NEC), NFPA-70, 2020 Edition. Where not restricted to more stringent requirements by the Electrical Specifications or Drawings the minimum requirements of the NEC shall prevail. Drawings: The Drawings are diagrammatic in nature and indicate generally the locations of materials and equipment. Where such locations are not clear, obtain the exact locations from the Engineer. The Drawings do not give exact details as to elevations and locations of various pipe, ducts, fittings, conduit, etc. and do not show all offsets or installation details which may be required. Where Drawings modify specifications requirements the modification is to be made only in the indicated location. Minor details not

usually shown or specified, but necessary for proper installation and operation, shall be included in the Contractor's proposal, the same if herein specified or shown. This paragraph is not intended to hold the Contractor responsible for the design, or to require him to furnish equipment not remotely indicated, but to ensure that a complete job will be provided without requests for minor "extras".

Discrepancies: The Contractor shall give written notice to the Engineer immediately upon discovery of any discrepancy or points of conflict in the Drawings or the Specifications. The Engineer will clarify such discrepancy or points of conflict in writing prior to the progress of the work beyond the point concerned. In the absence of such written notice, it is mutually agreed the Contractor has included the cost of all required items in his proposal and that he will be responsible for the approved satisfactory functioning of the entire system(s) without extra compensation.

Shop Drawings: The Contractor shall furnish and a digital copy in pdf format of shop drawings or brochures for all fixtures, equipment, and accessories to the Engineer for the Engineer's approval. The Contractor shall furnish and a digital copy in pdf format of a schedule of manufacturers of all materials for which shop drawings or brochures are not presented. No equipment shall be ordered, purchased or installed prior to approval of the shop drawings, brochures and schedules. Checking of submitted items by the Engineer is only for general conformance with the design concept of the project and general compliance.

The Contractor shall maintain a set of "as built" drawings at the construction site at all times that construction work is in progress. The "as built" drawings shall be a set of the contract Drawings which shall be marked in colored pencil by the Contractor to indicate deviations from equipment locations or other changes in the issued Contract Documents. The "as built" drawings shall not be a set of "working drawings", but rather shall be an independent drawing set, updated at the conclusion of each days work. The "as built" drawings shall be available for examination by the Engineer at any time work is in progress; the "as built" set of drawings shall be delivered to the Engineer at the conclusion of the project. Brand Names: Brand names, where used in the specification of a product, are intended to denote the standard of quality required for the particular material or product. It is not the intent of such specification to limit the use of any product to a specific manufacturer. Products by any manufacturer that are equal in type, quality, size, capacity, composition, finish, color, and other applicable characteristics to the material or product specified by trade name and in the opinion of the Engineer, are suitable for the same use and are capable of performing the same function as the material or product specified may be submitted for

<u>Substitutes</u>: If the acceptance of a substitute or if changes by the manufacturer of any item necessitates changes in any plumbing, mechanical, electrical or other service or utility to such item to insure its operation at peak efficiency, the Contractor responsible for the substituted or modified item shall pay the extra costs that accrue to other contractors or to the Owner as a result of such changes made by them to accommodate the substitution of or changes to the specific item. Such extra costs shall be included in the proposal of the contractor responsible for the substituted or modified item. Space required to accommodate proposed substitute equipment, together with accessibility for service and maintenance will be considered in comparing such items for approval.

Contractor to be Responsible: The Contractor shall be responsible for all work included in this section and the delegation of work to a subcontractor(s) shall not relieve him of this responsibility. The Contractor and his subcontractors who perform work under this section shall be responsible to the General Contractor in matters of coordination.

Coordination: The Contractor shall coordinate work with other contractors and shall notify the Engineer of apparent conflicts early to expedite construction. If structural damage seems imminent, work shall be stopped and the Engineer shall be notified for decision before operations are resumed. This shall also apply to site work such as primary and secondary electrical distribution, site lighting, etc. which are the responsibility of the Contractor.

Site Visitation: Prior to submitting a proposal, the Contractor shall visit the site to familiarize himself with the existing conditions. It is the responsibility of the Contractor to determine the exact point of delivery for the electric power utility, telephone service, and CATV (where such services are modified or installed). Site Cleaning: During construction the Contractor shall keep the site reasonably clean of debris and upon completion of construction he shall clean up the premises to remove all evidence of his work. The Contractor shall provide, at no additional cost to the Owner, additional cleaning of the site as directed by the Engineer. In addition, upon completion of construction, he shall clean, wash and/or polish all fixtures, equipment and exposed material and leave items clean, bright, and without blemish. Damaged items shall be replaced or repaired in a manner satisfactory to the Engineer by the Contractor at no additional cost to the Owner.

Final Inspection and Tests: Final inspection and tests of the completed construction shall take place in the presence of the Engineer's representative and shall be at such times that are convenient to the Engineer. Final tests should show conclusively that all equipment performs its intended and specified function and that all work complies with the provisions of these Specifications. All material, equipment, and instruments required for the tests shall be furnished by the Contractor at his own expense. In addition, the Contractor shall furnish a Certificate of Inspection from the Electrical Inspector prior to acceptance of work by the Owner. The Contractor shall arrange, in a timely manner, for all "in progress" and final inspections by the Electrical Inspector(s).

Operating Manuals and Instructions: Contractor shall furnish to the Engineer, four (4) copies of all operating manuals, instruction books, parts lists, installation drawings, etc., for all items of equipment furnished under his Contract. It shall be the Contractor's responsibility to satisfy the Engineer's requirements regarding such data. Manuals, parts lists, etc., shall be presented to the Engineer for review at least thirty (30) days prior to anticipated date of final inspection.

Owner Training: On completion of the work and before final acceptance by Owner, the Contractor shall have his authorized representative visit the work and give full instructions to Owner's designated operating and maintenance personnel regarding operation, maintenance, care and adjustment of all equipment and special construction elements.

Warranty: This contract includes a one-year warranty on all materials and workmanship from date of acceptance of the installation by the Owner. If, during the warranty period, any defects should become manifest due to any defective materials, workmanship, negligence or want of proper care on the part of the Contractor, the Contractor shall furnish any new materials as necessary, repair said defects, and put the system in order at his own expense on receipt of notice of such defects from the Owner.

GROUND FAULT PROTECTION REQUIRED GFCI Receptacles: Personnel ground fault protection is to be provided for certain receptacles as may be indicated on the Drawings. Protection is to be provided by the use of GFCI receptacles; the use of GFCI

circuit breakers is not acceptable for the protection of general use receptacles. GFCI receptacles may not be used to protect other downstream non-GFCI receptacles.

specifically noted otherwise.

SUBMITTALS & SHOP DRAWINGS

the responsibility of the Contractor.

EQUIPMENT SCHEDULES & LOADS

MINIMUM SERVICE CLEARANCES

Boxes & gutters

Light Fixtures

schedules.

Submit the following items to the Engineer for approval:

Wiring devices and connectors Overcurrent devices

panelboards, switchgear, etc., as may be required.

take precedence in the event of conflict with panel schedule information

GFCI Circuit Breakers: Use GFCI circuit breakers to protect equipment or dedicated receptacles in locations as indicated on the panel schedules. GFCI receptacles may not be used to protect downstream circuit components.

All Products to be Listed and Labeled: All products and materials shall be listed and labeled for the

Submittals: Submittals shall be in the form of manufacturer's published data showing compliance with the

specified requirements. The Engineer reserves the right to require testing of proposed and in-place work

or materials in order to confirm compliance with specified requirements. All costs of in-place testing are

Switchgear & panelboards

Power Requirements Detailed on Drawings: See Drawings for sizes and descriptions of fixtures,

Equipment Loads from Other Trades: Loads shown on Equipment Schedule(s) of other trades, if used,

<u>Complete Branch Circuits Required</u>: This contract includes complete branch circuits in accordance with

Codes to all electrical components shown on the Electrical Drawings and on the equipment schedule(s)

for other trades whether or not breakers for such loads are shown on electrical riser diagram or panel

Service Clearances: Provide service clearances to all equipment, panels, motors and accessories as

required by Codes and manufacturer's instructions. If such access is not available due to conflicts with

no case shall Contractor bid, submit or install equipment or other components in situations that do not

meet Code requirements or manufacturer's installation requirements. Where otherwise impossible to

equipment. All access panels in toilets and shower rooms shall be stainless steel.

provide access the Contractor shall furnish and install access panels as may be required to service all

the work of other trades, notify Engineer and attempt to work out necessary changes with other trades. In

Raceway & fittings

specific application by a NC approved testing agency. All products shall be new except where

WIRE AND CONDUCTING COMPONENTS

<u>Conductors</u>: All wire and conducting components shall be copper; aluminum conductors or conducting components are not acceptable.

Feeders: THWN copper Branch Circuits: THWN copper.

Color Codes: All wiring shall I	be color coded as	s follows:	
System Voltage	120/240	208Y/120	480Y/277
Phase A:	Black	Black	Brown
Phase B:	Red	Red	Orange
Phase C:		Blue	Yellow
Neutral:	White	White	Gray
For each valtage evotors defin	ad above group	dina conductora a	hall have green

For each voltage system defined above, grounding conductors shall have green color coding. For isolated grounding conductors the green color coding shall have a yellow tracer. Insulation may be identified or marked with colored tape or other means only as specifically permitted by the NEC. Where neutrals from different circuits appear in the same junction box or enclosure the neutrals will be distinguished one from another by use of colored tracers as required. A green tracer may not be used for this purpose.

Conductor Sizes: In general, wire sizes are indicated on the drawings. In all instances wire capacities are to equal or exceed breaker ratings for light, receptacle, appliance, motor and HVAC circuits; this requirement may force the use of larger conductors than would be required by the equipment nameplate. Minimum project wire size is AWG #12. Unreferenced wire sizes are AWG #12. For all circuits with home runs longer than 100 feet in length, the home run conductors shall be increased one wire size.

Wire sizes AWG #12 and #10 are to have solid standing. Combined Runs & Common Neutrals: Conductor and conduit configurations are shown on the Drawings. Conductor and conduit configurations may not be modified without approval in writing from the Engineer. Neutral conductors may not be combined for home runs except as specifically indicated on the Drawings.

PANELBOARDS AND DISTRIBUTION PANELS

Panelboards: Feeder, and distribution panels shall be as indicated on the panel schedules. All panels shall have bolt-on breakers. AIC ratings for feeder and branch circuit breakers are indicated on the panel schedules. All circuit breakers must be fully rated unless series ratings are specifically indicated. All panelboards shall have copper bussing. Panel enclosures are to be furnished without knockouts. Panelboard Schedules: Panelboard circuit breaker and connection schedules are described in the Drawings. Circuit layouts as shown in Drawings are mandatory unless modifications are approved in writing by the Engineer. Panelboard submittals may not be used to modify circuit designations or layouts. Spare Conduit Required: Each lighting and appliance branch circuit panelboard shall have a minimum of two (2) empty 3/4" EMT stubs routed from the top of the panel into the space above the ceiling for future use. This applies only if the ceiling is a non-removable type or if the panel is flush mounted. Each lighting and appliance branch circuit panelboard shall have a minimum of two (2) empty 3/4" EMT stubs routed from the bottom of the panel into the crawl space for future use.

Panelboard Wall Penetrations: All flush mounted panel wall penetrations must be protected in such a manner that the fire rating of the wall is maintained. It is the responsibility of the Contractor to assure that fire and smoke integrity of all walls is maintained at all equipment penetration points. See "Fire Protection Methods" for additional information concerning fire protection.

RACEWAY AND FITTINGS

<u>Raceway Types</u>: Raceways shall be of the types described below for the particular application: Service conductors: Rigid Metallic Conduit (RMC). Grounding Electrode(s) & below slab: RMC.

Feeders: RMC in general or Electrical Metallic Tubing (EMT) where specifically indicated on the

Branch Circuits and Other Wiring: Typical wiring is individual conductors routed in EMT. Minimum conduit size is 3/4" except that 1/2" may be used for runs containing only two (2) current carrying conductors. All branch circuit wiring must be either in RMC or in EMT. Use of Flexible Metal Conduit: Flexible Metal Conduit (FMC) may be used only where specifically

permitted in the Drawings or elsewhere in these Specifications. Any such use of FMC is limited to dry locations in lengths not to exceed 6'-0". Use of Flexible Liquidtight (Metal) Conduit: Flexible Liquidtight (Metal) Conduit (FLC) may be used only

where specifically permitted in the Drawings or elsewhere in these Specifications. Any such use of FLC is limited to lengths not to exceed 6'-0".

Raceway Fittings: Fittings shall be steel insulated throat compression type. Set screw fittings, fittings constructed of alloys of aluminum or fittings of the indenter type are not acceptable. Fittings used with rigid conduit shall be of the double threaded steel type where such use is possible.

Routing of Raceway: The Contractor is required to coordinate such routing with others. Exposed raceway shall line up work true to adjacent surfaces and be placed in a workmanlike manner. Raceway shall be run at right angles to building lines; this requirement does not apply to raceway located below concrete placed as a part of this project. Where required, raceway is to be sturdily supported and separated in a manner satisfactory to Engineer; raceway shall not be supported by the ceiling grid or ceiling grid support wires. In general all raceway is to be concealed and routed overhead, below the floor, or in walls except in electrical or mechanical equipment rooms. Raceway in such rooms may be surface mounted.

JUNCTION, DEVICE, AND PULL BOXES

Device Boxes: Device boxes for use in sheetrock or paneled surfaces shall be of galvanized steel, 4 inches square of a depth necessary to contain the intended device(s) and associated conductors. Boxes shall be sized to have no less than Ithe minimum volume as required by the NEC; boxes must be flush mounted and accommodate device(s) and all wires and connections without crowding. Boxes shall be furnished with a suitable plaster ring of the depth required to match the wall (or ceiling) material. Where the surface material or covering is combustible the front edge of the plaster ring shall be absolutely flush with the surface. Where the wall material is non-combustible, the front edge of the plaster ring must be recessed into the wall no further than 3/16" inch. <u>These mounting requirements will be rigidly enforced.</u>

Device boxes for use in masonry walls shall be of the concrete tight masonry type sized for the number of conductors and devices. Provide 1/2" raised cover %%Uand suitable plaster ring for exposed sheet metal device boxes where these boxes are permitted

Junction Boxes: Junction boxes shall be of galvanized steel of size, type, and shape for intended use and having adequate volume as required by NEC. All junction boxes shall be concealed unless specifically permitted elsewhere in these Specifications or on the Drawings. Boxes must be supported from the building structure without dependence on support of conduit. Junction boxes for use with flexible conduit surface extensions shall be mounted at 18" above finished floor level unless otherwise specified in the Drawings.

Exposed Boxes: Exposed device or junction boxes with one or more Rigid Metal Conduit entries must be cast steel with threaded conduit entries.

Auxiliary Gutters: Auxiliary gutters shall be galvanized steel, weatherproof where used in outside locations. All conduit and conductors in auxiliary gutters and large junction boxes shall meet the bending space and size requirement of the NEC.

Power Distribution Blocks Required: All connections in auxiliary gutters or large junction boxes shall be made by use of power distribution blocks. No "split bolt" or similar connectors shall be used for any conductor splices or taps.

Minor Relocation of Electrical Boxes: If directed by the Engineer, the Contractor shall, without extra charge, make reasonable modifications in the layout as needed to prevent conflict with the work of other trades or for proper execution of the work.

WIRING DEVICES

Receptacles: Receptacles shall be heavy duty specification grade 3 wire grounding duplex 20 Amp (5-20R), 120 volt, strap mounted receptacles, located 18" above finished floor level unless otherwise indicated on the Drawings. All receptacles shall be of the grounding type and shall be checked for grounding efficiency prior to inspection. A typical receptacle is equal to Hubbell #8300 series. Receptacle color shall be ivory for normal system receptacles and red for receptacles that are supplied by a generator source.

Equipment Servicing Receptacles: The Contractor shall locate 120V receptacles adjacent to HVAC equipment and/or plumbing items as shown on the Drawings. Where used in outdoor locations the receptacle enclosure shall be of the weatherproof type.

Dedicated Receptacles: Dedicated receptacles shall be of the proper type required for the equipment to be used. Field verify the following items for each dedicated receptacle: 1. Maximum circuit breaker size that is allowed to supply the equipment to be used. 2. Requirements for separate grounding conductor in all cases where more than one phase is carried to a receptacle. 3. Proper mounting position for receptacle with respect to equipment to be used. The above information may be obtained from equipment nameplates or from literature supplied with equipment.

<u>Device Plates</u>: Wall plates for all wiring and control devices shall be burnished stainless steel, standard size. Oversized wall plates may not be used. Device plate screws shall be constructed from stainless steel. Provide circuit identification labels as described elsewhere for all receptacle and surface extension box plates. Equivalent wiring devices by Leviton, Bryant, Arrow-Hart, or General Electric or other manufacturer may be submitted for consideration.

Minor Relocation of Electrical Devices: If directed by the Owner or Engineer, the Contractor shall, without extra charge or cost to the Owner, make reasonable modifications in the layout of device locations as needed to prevent conflict with the work of other trades or for proper execution of the work. Where such are used, Owner supplied drawings shall take precedence over the Electrical Drawings regarding building construction, dimensions and arrangement.

Weather Proof While In Use Cover: Weather proof covers shall be Extra Duty rated and shall be poweer coated metal type covers.

<u>Device Box Wall Penetrations</u>: All wall penetrations at device or equipment locations must be protected in such a manner that the fire rating of the wall is maintained. It is the responsibility of the Contractor to assure that fire and smoke integrity of all walls is maintained at all penetration points. See "Fire Protection Methods" for additional information concerning fire protection.

LIGHTING FIXTURES

Lighting Fixtures: Lighting fixtures and lamps shall be furnished and installed as indicated on the drawings in the approximate locations shown. The fixture types shall be as shown on the fixture schedule. The Contractor shall furnish and install all suspension accessories, canopies, hickeys, sockets, holders, reflectors, ballasts, louvers, frames, hangers, and all other items necessary to install fixtures. The Contractor shall install lamps of the size and types indicated in each fixture.

Equipment Grounding (Load Side): All electrical equipment shall be grounded. Grounding on the load side of the main disconnect shall be accomplished by means of a separate insulated grounding conductor sized in accordance with NEC Table 250.122. This conductor shall be run along with the circuit supply conductors. The grounding conductor(s) shall be attached by means of a dedicated screw to a common point in each junction box, cabinet, enclosure, or utilization equipment to which it runs or through which it passes. Grounding methods depending on the continuity of electrical raceway, clips, or mounting screws are not acceptable.

Equipment Grounding (Line Side): All junction boxes, equipment cabinets, or enclosures on the line side of the main disconnect shall be grounded by means of bonding jumpers, sized in accordance with the NEC Table 250.66, connected to the grounded service entrance conductor.

EQUIPMENT IDENTIFICATION

Laminated Nameplates Required: Identify each item of electrical equipment installed under this contract by an etched laminated plastic nameplate in addition to the manufacturer's nameplate. The plastic plate shall clearly identify the item or its intended use. The nameplates shall be fastened securely to equipment. Identify all breakers with raised plastic lettering or by the use of directory cards where provided. Directory cards must be typed and installed in space provided by the manufacturer. Hand printed identification is not acceptable. All circuit breakers in electrical panels shall be identified by typed or printed legend that describes the items served by the circuit breaker.

CONSTRUCTION SITE POWER AND LIGHTING

Power Distribution: The Contractor shall provide, at the Contractor's expense, all necessary items for electric power distribution for use by the General Contractor and all sub-contractors for the duration of the construction.

<u>Site Lighting</u>: The Contractor shall provide, at no additional cost, necessary luminaries for general illumination and for task illumination for the duration of the construction.

Insufficient Power or Lighting: Should the lighting level or power distribution in a specific area be deemed nsufficient by the Engineer, the Contractor shall provide additional lighting or power distribution as directed by the Engineer; the additional luminaries or distribution circuitry and devices shall be provided at no additional cost to the Owner. All temporary electric construction shall be in full compliance with NEC Article 305.

Electrical Energy Provided by Owner: A connection point for electric power will be provided by the Owner in the construction area. Electric energy is provided by the Owner.

The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

CLIENT

CITY OF GREENVILLE 200 W 5TH ST **GREENVILLE, NORTH CAROLINA** PHONE: 252.329. 4521

Salas O'Brien

1620 Midtown Place Raleigh, NC 27609 919-832-8118 salasobrien.com license (NC): F-1434

CREENVILE GATEMAN	SIGNAGE	GREENVILLE, NORTH CAROLINA
REVISIONS	SEAL 039503	10/6/2023
PLAN INFO	RMATIO	N
PROJECT NO. FILENAME CHECKED BY DRAWN BY SCALE	GVL21001 GVL21001 Checker Designer PER PLAN	-LS1

10.26.2023

DATE

SHEET

ELECTRICAL

SPECIFICATIONS

KEY NOTES TO E101

1 PROPOSED LOCATION OF UTILITY TRANSFORMER, BY UTILITY COMPANY.

2 EQUIPMENT RACK, SEE DETAIL ON SHEET E201.

3 PROVIDE OUTDOOR LIGHTING CONTACTOR WITH PHOTOCELL, MOUNTED TO RACK. SEE DETAILS ON SHEET E201.

4 PROVIDE CIRCUITS FOR CONNECTION TO INTEGRAL SIGN LIGHTING. COORDINATE EXACT CIRCUIT REQUIREMENTS AND LOCATIONS WITH SIGN PROVIDER.

5 MOUNT UTILITY METER BASE TO RACK. COORDINATE REQUIREMENTS WITH UTILITY COMPANY.

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CLIENT

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1620 Midtown Place Raleigh, NC 27609 919-832-8118 salasobrien.com license (NC): F-1434

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REVISIONS	SEAL 039503 SEAL 039503 NGINEER 10/6/2023
PLAN INFO PROJECT NO.	ORMATION

PER PLAN

10.26.2023

ELECTRICAL SITE PLAN

E101

Copyright © 2023 SALAS O'BRII SO Project No: 2022-05511 SCALE

DATE

SHEET

GENERAL NOTES

1. TO ASSURE A RIGID INSTALLATION AND PRODUCT LONGEVITY, STANCHION MUST BE SET IN CONCRETE.

SW DETAIL: OL0002

PANEL ID:	P1		VOLT	AGE	: 120	/240	S	SERVICE	E EQUIP:	Yes						Μ	IOUNTING	: Surface
SOURCE:	UTILIT	/	AMPS	:	200)	N	/IAIN:		МСВ						Т	YPE:	BOLT ON
-OCATION:	RACK M	IOUNTED	D PANE	L AIG	C: 22,	000	A	PPROX. DIM: 20" W X 5.75" D X 50" H									NEMA 3R	
OAD	NO TE	COND	Phase, Neu, Grd Size	PC LE	BKR	скт	l	4	В		скт	BKR	PO LE	Phase, Neu, Grd Size	COND	NO TE	LOAD	
REC		3/4	1-#12, 1-#12, 1-#12	2 1	20	1	360				2		1				SPACE	
IGN POWER		3/4	1-#10, 1-#10, 1-#1) 1	30	3			2880		4		1				SPACE	
IGN POWER			1-#10, 1-#10, 1-#1) 1	30	5	2880				6		1				SPACE	
GHTING - EXTERIOR			1-#12, 1-#12, 1-#12	2 1	20	7			90		8		1				SPACE	
UTURE CAMERA				1	20	9	0				10		1				SPACE	
PARE				1	20	11			0		12		1				SPACE	
PARE				1	20	13	0				14		1				SPACE	
PARE				1	20	15			0		16		1				SPACE	
PARE				1	20	17	0				18		1				SPACE	
PARE				1	20	19			0		20		1				SPACE	
PARE				1	20	21	0				22		1				SPACE	
PARE				1	20	23			0		24		1				SPACE	
							3240	AV C	2966	VA								
							27	Ά	25 A									
Load Classification Connected Load				Dem	Estimated Demand			and	I Panel Tot			l Totals						
Power			576	0 VA		1	100.00%		5760 VA									
EC					360) VA		1	00.00%		360) VA		CONNECTED LOAD		DAD	6206 VA	
ighting - Exterior					90	VA		1	25.00%		113	3 VA		DEM	AND LC	DAD	6227 VA	
														AVG. CONNECTED		ENT	26 A	
													AVG. DEMAND		ENT	Г 26 А		

	LIGHTING FIXTURE SCHEDULE						
TYPE MARK	DESCRIPTION	LUMENS	MOUNTING	VOLTAGE	WATTAGE	CONTROL	FIXTURE MEETING
FL	GROUND MOUNTED FLOOD LIGHT	5242	GROUND	120	45 VA	PHOTOCELL	NLS NV-F1-15-16L-45-35K-S
	1		1	1		1	

FIXTURE SCHEDULE NOTES:

- 1. THIS FIXTURE SCHEDULE IDENTIFIES A FIXTURE THAT MEETS THE SPECIFIED PERF QUALITY REQUIRED FOR THE PROJECT. MANUFACTURER'S NAMES AND FIXTUR A BRAND NAME SPECIFICATION. EQUIVALENT FIXTURES BY MANUFACTURERS (SUBMITTED FOR THIS PROJECT.
- 2. PROVIDE LED DRIVERS SUITABLE FOR FULL RANGE DIMMING, INTEGRAL SURGE PRO DISTORTION (THD) OF <20% AND A POWER FACTOR >0.90. IN ADDITION, DRIVER INJECTION OF FEEDBACK INTO SUPPLY LINES. MAXIMUM CURRENT THD AND MINIM A PART OF THE FIXTURE SUBMITTAL DATA.
- 3. UNLESS OTHERWISE INDICATED, PROVIDE SINGLE DRIVER PER FIXTURE.
- 4. PROVIDE MOUNTING FRAME AND RELATED ACCESSORIES FOR ALL FIXTURES AS REC REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING CONSTRUCTION. CONT OF FIXTURE SCHEDULE MANUFACTURER'S PART NUMBERS FOR PURPOSES OF MATC
- 5. PROVIDE DIMMING DRIVERS WHERE DIMMING CONTROLS ARE INDICATED ON THE
- 6. ALL FIXTURES TO HAVE A COLOR TEMPERATURE OF 4000K UNLESS NOTED OTHERW
- 7. UNLESS NOTED OTHERWISE, ALL FIXTURES SHALL INCLUDE INTEGRAL DRIVER.
- 8. ALL FIXTURES SHALL BE UL OR THIRD PARTY LISTED AS COMPLETE ASSEMBLY.

G SPECIFICATION	COMMENTS	ICON
SNL	PROVIDE NARROW SPOT LIGHT DISTRIBUTION AND FULL VISOR	
)RMANCE REQUIREM <u>E SERIES/MODELS</u> THER THAN THOSE L	ENTS AND A LEVEL OF IN SCHEDULE ARE NOT ISTED MAY BE	
TECTION, CURRENT 5 MUST BE RF SUPPR UM POWER FACTOR	TOTAL HARMONIC ESSED FOR MINIMUM MUST BE SUBMITTED AS	
2UIRED TO MATCH CE 2 <u>ACTOR IS RESPONSI</u> 1ING CEILING CONST	EILING CONSTRUCTION. <u>BLE</u> FOR MODIFICATION RUCTION.	
LANS. SE.		
	SW DETAIL: IN0011 LED	
GENERAL NO	DTES TO POWER RISERS: NAL) THICK, 3000 PSI CONCRETE EQUI	PMENT PAD FOR ALL FLOOR MOUNTED GEAR AND
TRANSFORMERS. COORDINATE LOC CLEARANCES AND PROMOTE AIR CIR	FNIISH SMOOTH AND CHAMFER EDGE AITIONS FOR ALL DRY TYPE TRANSFO PROVIDE CLEARANCES FROM WALLS	ES. RMERS TO PROVIDE NEC MANDATED WORKING AS RECOMMENDED BY PRODUCT MANUFACTURER TO
		R SCHEDULE
Mark Ampacity 6GEC N/A	GROUNDING ELECTRODE CONDUCTOR. 1	Description -#6 IN 1/2" RMC. SEE NOTE 3.
ALL AMPACITIES A CONDUCTOR SIZE NOT LISTED AND L	RE BASED ON 75° C. RATING. CONTRA S AS NECESSARY TO MEET THE REQU ABELED FOR USE AT 75° C. THIS REQU	CTOR IS RESPONSIBLE FOR THE MODIFICATION OF JIREMENTS OF NEC 110-14(C) WHERE TERMINATIONS ARE JIREMENT APPLIES TO TERMINATIONS IN BOTH NEW RMINATIONS ARE MADE AS A PART OF THIS PROJECT
	IN EXISTING EQUIPMENT TO WHICH TE	

2. DESIGNATION "C" IN THE ABOVE TABLE REFERS TO "CONDUIT". SEE SPECIFICATIONS FOR EXACT TYPE OF REQUIRED. TYPE OF RACEWAY, UNLESS INDICATED IN TABLE OR ELSEWHERE IN THE DRAWINGS, IS TO B DETERMINED BY USE CONDITIONS.

PROVIDE A BONDING BUSHING AT THE EQUIPMENT END OF THIS CONDUIT RUN AND A BONDING HUB AT CONNECTION TO THE GROUNDING ELECTRODE.

	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
	CITY OF GREENVILLE 200 W 5TH ST GREENVILLE, NORTH CAROLINA PHONE: 252.329. 4521
	Salas O'Brien 1620 Midtown Place Raleigh, NC 27609 919-832-8118 salasobrien.com license (NC): F-1434
ND GARENTO	GREENVILLE GATEWAY SIGNAGE GREENVILLE, NORTH CAROLINA
NEW DJECT. OF RACEWAY D BE T THE	SEAL 039503 SEVISIONS
BRIEN	PLAN INFORMATIONPROJECT NO.GVL21001FILENAMEGVL21001-LS1CHECKED BYCheckerDRAWN BYDesignerSCALEPER PLANDATE10.26.2023SHEET

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ELECTRICAL SCHEDULES

1. GENERAL

- 1.01. THE STRUCTURE IS DESIGNED AND MEETS THE DESIGN CRITERIA OF THE FOLLOW NG CODES AND STANDARDS: 2018 NORTH CAROLINA STATE BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH CHANGES) ASCE 7-10, MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES AISC 360-10, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
 - ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ALL OTHER REFERENCED CODES OR STANDARDS SHALL REFER TO THE EDITION OF THE CODE/STANDARD ENFORCED AT THE TIME THE STRUCTURAL CONTRACT DRAWINGS ARE ISSUED FOR PERMIT.
- 1.02. ALL METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURE, AS DEPICTED ON THE CONTRACT DRAWINGS, IS STRUCTURALLY STABLE IN IT'S COMPLETED FORM; BRACING, SHORING, OR OTHER ADDITIONAL SUPPORT MAY BE NECESSARY TO ENSURE STRUCTURAL STAB LITY DURING VARIOUS STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AND PROVIDE ALL NECESSARY BRACING OR SHOR NG, TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 1.03. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL DETERMINE THE SCOPE OF THE STRUCTURAL WORK FROM THE CONTRACT DOCUMENTS TAKEN AS A WHOLE. THE STRUCTURAL DRAW NGS SHALL NOT BE CONSIDERED SEPARATLEY FOR PURPOSES OF B DDING THE STRUCTURAL WORK.
- 1.04. SCALES NOTED ON THE DRAWINGS ARE FOR GENERAL REFERENCE ONLY. NO DIMENSIONAL INFORMATION SHALL BE OBTA NED BY DIRECT SCALING OF THE DRAW NGS. THE CONTRACTOR SHALL VERIFY ALL EXIST NG DIMENSIONS RELEVANT TO ALL NEW CONSTRUCTION AND DEMOLITION, PRIOR TO COMPLETION OF SHOP DRAWINGS OR COMENCEMENT OF WORK. ANY EXIST NG DIMENSIONS IN CONTRADICTION TO WHAT IS SHOWN ON THE STRUCTURAL CONTRACT DRAWINGS SHALL BE REPORTED TO DRYE-MCGLAMERY ENGINEERING PROMPTLY.
- 1.05. IN ANY INSTANCE OF CONFLICT BETWEEN THE STRUCTURAL CONTRACT DRAW NGS OR SPECIFICATIONS, THE MOST STR NGENT REQU REMENT SHALL BE ADHERED TO. ALL REQUEST FOR CLAR FICATION AS TO WHICH REQUIREMENT W LL CONTROL SHALL BE DIRECTED TO DRYE-MCGLAMERY ENGINEERING. IN NO CASE SHALL THE CONTRACT DOCUMENTS OR SPEC FICATIONS BE DEVIATED FROM WITHOUT THE CONSENT OF DRYE-MCGLAMERY ENGINEER NG.
- 1.06. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL INSPECTIONS AND SPECIAL INSPECTIONS. AS REQUIRED BY THE BUILDING CODE AND AUTHORITY HAVING JURISDICTION.
- 1.07. ALL PRODUCT DATA, SHOP DRAWINGS, AND OTHER SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF THE RELEVANT STANDARD AND/OR SPECIFICATION ENFORCED IN THE BUILD NG CODE AT THE TIME PERMITS ARE ISSUED. IN ANY INSTANCE OF CONFLICT BETWEEN VERSIONS OF A STANDARD/SPECIFICATION REFERENCED IN THE STRUCTURAL DRAWINGS AND THE BUILDING CODE, THE CODE REFERENCED VERSION SHALL BE ADHERED TO.

2. MATERIAL STRENGTHS

2.01.	CONCRETE (COMPRESSIVE STRENGTH, fc AT 28 DAYS) FOUNDATIONS. * CONCRETE EXPOSED TO WEATHER SHALL BE A R ENTRAINED *	5,000 PSI	MAX w/c RATIO 0.45
2.02.	REINFORCING STEEL (MINIMUM SPEC FIED YIELD STRESS, Fy) REBAR (ASTM A615 GRADE 60)	60,000 PSI 65,000 PSI	
2.03.	STRUCTURAL STEEL (MINIMUM SPEC FIED Y ELD STRESS, Fy) PIPE (ASTM A53 GRADE B) ANCHOR RODS (ASTM F1554 GRADE 36, U.N.O.) WELDING RODS (E70XX, U N.O.)	35,000 PSI 36,000 PSI 70,000 PSI (F _E	exx)
2.04.	SO L/SUBGRADE PROPERTIES ALLOWABLE SO L BEARING PRESSURE (g)	1,50	0 PSF (ASSUMED)

3. SUBMITTAL

- 3.01. SUBMITTALS AND SHOP DRAWINGS SHALL BE SUBMITTED TO DRYE-MCGLAMERY ENG NEER NG FOR REVIEW, AS REQUIRED PER PROJECT SPEC FICATIONS. SUBMITTALS SHALL NCLUDE: - CONCRETE REBAR SHOPS
 - SIGN/TOWER FABRICATION AND ANCHORAGE DRAWINGS
- 3.02 DRYE-MCGLAMERY ENG NEER NG SHALL HAVE 15 DAYS AFTER THE DATE OF RECEPT OF THE SUBMITTAL FOR REVIEWING AND COMMENTING ON ANY SUBMITTALS.
- 3.03. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL REVIEW SUBMITTALS PRIOR TO SUBMITTING THEM TO DRYE-MCGLAMERY ENG NEER NG. HIGHLIGHT, CLOUD, OR OTHERWISE NDICATE ITEMS THAT DEVIATE FROM THE CONTRACT DOCUMENTS ON THE SUBMITTAL.

4. FOUNDATION AND SLAB ON GRADE

- THE FOUNDATION HAS BEEN DESIGNED FOR A PRESUMED ALLOWABLE SOIL BEAR NG PRESSURE OF 1.500 POUNDS 4 01 PER SQUARE FOOT (PSF). THE ALLOWABLE SO L BEARING PRESSURE SHALL BE VER FIED IN THE FIELD BY THE OWNERS SPECIAL NSPECTOR.
- 4.02. ALL FOOTINGS SHALL BEAR ON ORIGINAL UNDISTURBED SOIL OR APPROVED ENG NEERED COMPACTED FILL. BUT NOT HIGHER THAN THE MINIMUM DEPTH SHOWN ON DRAWINGS. CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF COMPACTED STONE BELOW ALL FOOTINGS AND SLAB ON GRADE, UNLESS NOTED OTHERWISE ON DRAWINGS
- 4.03. ALL SLABS ON GRADE SHALL BEAR ON ORIG NAL, UNDSITURBED SO L OR APPROVED ENGINEERED COMPACTED F LL. CONTRACTOR SHALL PROVIDE A M NIMUM 4" THICK LAYER OF COMPACTED STONE BELOW ALL SLABS ON GRADE.
- 4.04. CONTRACTOR TO KEEP EXCAVATIONS DRY AND PROTECTED FROM FROST AT ALL T MES DURING THE FOUNDATION CONSTRUCTION. CONTRACTOR SHALL DEWATER WHERE REQUIRED PRIOR TO ANY EXCAVATION WORK BEING DONE. ALL UNSUITABLE OR DELETERIOUS SO LS OR MATERIAL SHALL BE REMOVED FROM THE EXISTING GROUND SURFACE PRIOR TO ANY EXCAVATION WORK BE NG DONE.
- 4.05. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THE DESCRIBED ASSUMED VALUES SHOWN ON THE CONTRACT DRAWINGS OR HIGHLIGHTED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO DRYE-MCGLAMERY ENGINEERING, BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.

5. REINFORCED CONCRETE

- 5.01. THE OWNER'S SPECIAL INSPECTOR SHALL VER FY THAT CONCRETE WORK AND RE NFORCEMENT ARE FABRICATED AND PLACED IN CONFORMITY WITH THE APPLICABLE EDITION OF ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, THESE DOCUMENTS, AND WITH ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE. THE CONTRACTOR SHALL NOTIFY THE TEST NG AGENCY WHEN WORK REINFORC NG STEEL IS TIED IN ITS FINAL LOCATION FOR VERIFICATION PRIOR TO POURING ANY CONCRETE.
- 5.02. THE CONTRACTOR SHALL SUBMIT ALL CONCRETE MIXES TO DRYE-MCGLAMERY ENG NEER NG FOR REVIEW ALONG WITH STANDARD ACI STRENGTH DOCUMENTATION, PRIOR TO USE.
- 5.03. CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTIVE COVER: CONCRETE POURED ON EARTH OR GROUND. . 3 N. CONCRETE EXPOSED TO WEATHER #6 THROUGH #18 BARS. 2 N #5 BAR, W31 OR D31 WIRE AND SMALLER. 1 1/2 N. CONCRETE NOT EXPOSED TO EARTH OR WEATHER 11/2 N. #14 AND #18 BARS #11 BAR AND SMALLEF 1 N.
- 5.04. SLEEVES, CONDUITS, OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED SO THAT THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER AND THEY DO NOT DISPLACE REINFORC NG STEEL
- 5.05. DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, WITHOUT PRIOR APPROVAL OF DRYE-MCGLAMERY ENGINEERING.
- 5.06. BARS SHALL BE SPLICED PER DETA LS WHERE PROVIDED. OTHERWISE BARS SHALL BE CLASS "B" LAP SPLICED IN LONGEST CONVENIENT LENGTHS WITH ADJACENT LAPS STAGGERED 3'-0" M N MUM. BARS SHALL BE CONTACT SPLICED OR SPACED A M N MUM DISTANCE APART PER CRSI "REINFORCEMENT ANCHORAGES AND SPLICES", AND A MAXIMUM DISTANCE APART OF THE LESSER OF, 1/5 THE LAP LENGTH OR 6 INCHES.
- 5.07. CLEAR SPACING BETWEEN REBARS (UNLESS SHOWN TO BE CONTACT LAP SLICED) SHALL BE A MINIMUM OF 1-1/2 BAR DIAMETER, 1-1/2", OR 1-1/3 T MES THE AGGREGATE SIZE, WHICHEVER IS GREATER.
- 5.08. ALL HOOKS NOT NOTED SHALL BE ACI STANDARD HOOKS.
- 5.09. NO TACK WELDING W LL BE PERMITTED ON GRADE 40 OR 60 STEEL

5. REINFORCED CONCRETE (CONT'D.)

.10.	 ANCHOR BOLTS SHALL BE SET AND CONCRETE BEARING FOLLOW NG TOLERANCE: A. ELEVATION OF CONCRETE SURFACE PLUS OR M B. ELEVATION TOP OF ANCHOR BOLTS PLUS 1" TO M C. OUT OF POSITION OF ANCHOR BOLTS PLUS OR M
.11.	REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION REGLETS, DRIPS, PADS, CURBS, CHAMFER BLOCKOUTS REQU REMENTS NOT SHOWN ON THE STRUCTURAL DRAW
.12.	GROUT FOR BASE PLATES SHALL BE NONSHRINKABLE, NO HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS BE PERMITTED. GROUT BASEPLATES AFTER TORQUE IS A
.13.	ALL POST-INSTALLED EPOXY ANCHORS SHALL BE INSTALL MANUFACTURER'S REQUIREMENTS. WHERE POST-INSTALL ALLOWED TO ADEQUATELY CURE PRIOR TO DRILL NG OF A

- N NO INSTANCE SHALL WATER BE ADDED TO CONCRETE MIXES ON SITE. IF A MORE EASILY WORKABLE CONCRETE 5.14. IS DESIRED, THE CONTRACTOR SHALL REQUEST A HIGH-RANGE WATER REDUCER, OR SUPERPLASTICIZER, BE ADDED TO THE CONCRETE MIX PRIOR TO ORDERING OR POUR NG THE CONCRETE.
- 5.15. ALL CONCRETE MIXES SHALL MEET THE REQUIREMENTS FOR THE ASSIGNED EXPOSURE CLASS, PER ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY. REFER TO THE PROVIDED TABLE FOR ALL EXPOSURE CLASSES, BY EXPOSURE CATEGORY, FOR EACH STRUCTURAL CONCRETE ELEMENT. IN ANY INSTANCE OF UNCERTAINTY AS TO THE EXPOSURE CLASS FOR A STRUCTURAL CONCRETE ELEMENT, THE CONTRACTOR OR CONCRETE SUPPLER SHALL CONTACT THE ENGINEER OF RECORD (DRYE-MCGLAMERY ENG NEER NG) TO CONFIRM THE CONTROLLING EXPOSURE CLASS, PRIOR TO POURING ANY CONCRETE.
- 5.16. CONCRETE EXPOSUED TO WEATHER SHALL BE A R ENTRAINED WITH 4% - 6% AIR ENTRA NMENT. REFER TO THE ASSIGNED EXPOSURE CLASS FOR ADDITIONAL NFORMATION AND REQUIREMENTS FOR AIR ENTRA NMENT FOR CONCETE ELEMENTS.
- THE CONTRACTOR SHALL TAKE CAUTION TO ENSURE ALL REQUIRED REINFORCED CONCRETE SPECIAL 5.17. NSPECTIONS ARE COMPLETED. ONCE THE RELEVANT CONCRETE ELEMENTS ARE INSTALLED. REFER TO THE SPECIAL INSPECTION TABLES OR THE BULD NG CODE FOR ALL REQUIRED REINFORCED CONCRETE SPECIAL NSPECTIONS.

REINFORCED CONCRETE MINIMUM BAR DEVELOPMENT LENGTHS			REINFORCED	CONCRETE MINIMUM	I LAP SPLICE LENGTHS
BAR SIZE	TENSION LENGTH	COMPRESSION LENGTH	BAR SIZE	TENSION SPLICE	COMPRESSION SPLICE
#4 (1/2 " Ø)	24 INCHES	10 NCHES	#4 (1/2"Ø)	30 NCHES	16 INCHES
#6 (3/4 " Ø)	34 INCHES	14 NCHES	#6 (3/4 " Ø)	44 NCHES	24 INCHES
#8 (1 " Ø)	56 INCHES	20 NCHES	#8 (1"Ø)	72 NCHES	30 INCHES
*NOTE: FOR HOOKED BARS, DEVELOPMENT LENGTHS MAY BE			* <u>Note</u> : All ten	SION LAP SPLICES S	HALL BE NO LESS THAN

LESS THAN SHOWN IN TABLE. FOR BARS WITH STANDARD HOOKS N TENSION, THE DEVELOPMENT LENGTH OF BARS SHALL NOT BE LESS THAN 25 BAR DIAMETERS.

REINFORCED CONCRETE EXPOSURE CLASSES					
RE NFORCED CONCRETE ELEMENT	FREEZE-THAW CLASS	SULFATE CLASS	WATER-CONTACT CLASS	CORROSION CLASS	
FOUNDATIONS	F2	S0	W0	C0	

STRUCTURAL STEEL

6.01.	FABRICATOR QUALIFICATIONS: ENGAGE A FIRM EXPE TO THAT INDICATED FOR THIS PROJECT AND WITH A RE WELL AS SUFFICIENT PRODUCTION CAPACITY TO FABRIC
6.02.	FABRICATION AND ERECTION OF ALL STRUCTURAL STEE SPECIFICATION FOR STRUCTURAL STEEL RUILDINGS SE

- ELEVATIONS NDICATED AND ACCORDING TO THE AISC SPEC FICATIONS REFERENCED N THIS SECTION. 6.03. PRIOR TO GROUTING, COLUMNS SHALL BE ERECTED AND ALIGNED AS TO PLUMBNESS AND ELEVATION BY
- MEANS OF STEEL SHIMS OR LEVELING NUTS UNDER THE BASE PLATES. SETTING PLATES SHALL ONLY BE USED AS TEMPLATES TO LOCATE ANCHOR BOLTS DURING CONCRETE PLACEMENT.
- 6.04. PROH BITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENG NEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
- 6.05. GALVANIZED AFTER FABRICATION BY HOT DIP PROCESS IN ACCORDANCE WITH ASTM A123. WEIGHT OF ZINC COATING TO CONFORM TO THE REQUIRMENTS SPECIF ED UNDER "WEIGHT OF COAT NG" IN ASTM A123 OR ASTM A386, AS APPLICABLE. THE AFFECTED PORTIONS OF FIELD WELDED GALVANIZED ASSEMBL ES SHALL BE FIELD PA NTED WITH CORROSION RESISTANT PA NT.
- 6.06. THE CONTRACTOR SHALL TAKE CAUTION TO ENSURE ALL REQUIRED STEEL SPECIAL INSPECTIONS ARE REFER TO THE SPECIAL INSPECTIONS TABLES OR THE BU LDING CODE FOR ALL REQUIRED STEEL SPECIAL NSPECTIONS.
- 6.07. ALL STRUCTURAL STEEL WELDING SHALL CONFORM TO AWS D1.1 STRUCTURAL WELD NG CODE STEEL. ALL WELD FILLER METALS SHALL CONFORM TO AN APPROVED AWS SPECIFICATION LISTED IN AISC 360 AND AWS D1.1, ALL FILLER METALS SHALL BE E70xx (70 KSI), UNLESS NOTED OTHERWISE.
- 6.08. ALL ANCHOR RODS SHALL CONFORM TO THE REQU REMENTS OF ASTM F1554, UNLESS NOTED OTHERWISE THREADS ON ANCHOR RODS AND THREADED RODS SHALL CONFORM TO THE UNIFIED STANDARD SERIES OF ASME B18.2.6 AND SHALL HAVE CLASS 2A TOLERANCES.

DESIGN DATA

- ALL CONSTRUCTION SHALL COMPLY AS APPROPRIATE WITH THE FOLLOWING CODES AND/OR SPECIFICATIONS: 2018 NORTH CAROLINA STATE BUILDING CODE (IBC 2015) ASCE 7-10, MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHER STRUCTURES ACI 318-14, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND OTHER APPLICABLE CRITERIA, REFERENCE TO OTHER STANDARD SPECS. OR CODES SHALL MEAN THE LATEST VERSION.
- DESIGN LOADS:

Α.	WIND LOADS: BASIC WIND SPEED (3-SEC GUST), V EXPOSURE CATEGORY IMPORTANCE FACTOR, Iw DIRECTIONALITY FACTOR, kd	121 MPH C 1.00 0.85
В.	SEISMIC LOAD: SOIL SITE CLASS IMPORTANCE FACTOR, le 0.2 SECOND, Ss 1.0 SECOND, S1 0.2 SECOND, Sds 1.0 SECOND, Sds 1.0 SECOND, Sd1 SEISMIC DESIGN CATEGORY	D 1.00 0.123g 0.062g 0.132g 0.100g B
FOUN	DATION DESIGN DATA	

A.	WIND LOADS: BASIC WIND SPEED (3-SEC GUST), V EXPOSURE CATEGORY IMPORTANCE FACTOR, Iw DIRECTIONALITY FACTOR, kd	121 MPH C 1.00 0.85
B.	SEISMIC LOAD: SOIL SITE CLASS IMPORTANCE FACTOR, le 0.2 SECOND, Ss 1.0 SECOND, S1. 0.2 SECOND, Sds 1.0 SECOND, Sd1 SEISMIC DESIGN CATEGORY	D 1.00 0.123g 0.062g 0.132g 0.100g B
FOUN	IDATION DESIGN DATA	

G SURFACE FOR COLUMNS SHALL BE F NISHED TO THE

NUS 3/8" M NUS 3/8". M NUS 1/8".

AND D MENSIONS OF CONCRETE REVEALS, NOTCHES, 3 AT DOORWAYS, AND ALL OTHER PROJECT VINGS.

ON-METALLIC CONFORMING TO ASTM C827. AND SHALL S OF 5000 PSI. PREGROUTING OF BASE PLATES W LL NOT CH EVED ON ALL ANCHOR BOLTS.

LED IN ACCORDANCE WITH ALL EPOXY ANCHOR SYSTEM LED EPOXY ANCHORS ARE USED, CONCRETE SHALL BE ANCHOR HOLES, OR INSTALLATION OF ANCHORS.

1.3 TIMES THE BAR DEVELOPMENT LENGTH. ALL COMPRESSION LAP SPLICES SHALL BE NO LESS THAN 40 T MES THE BAR DIAMETER.

ERIENCED IN FABRICAT NG STRUCTURAL STEEL SIMILAR ECORD OF SUCCESSFUL IN-SERVICE PERFORMANCE, AS CATE STRUCTURAL STEEL WITHOUT DELAYING THE WORK.

EL SHALL CONFORM TO THE REQUIREMENTS OF AISC 360, . SET STRUCTURAL STEEL ACCURATELY IN LOCATIONS AND TO

SPLIC NG OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS

STEEL MEMBERS, FABRICATIONS, AND ASSEMBLIES INDICATED ON THE DRAWINGS TO BE GALVANIZED SHALL BE

COMPLETED, ONCE THE RELEVANT STEEL MEMBER/CONNECTION ELEMENTS ARE FULLY ERECTED AND INSTALLED.

ALLOWABLE SOIL BEARING PRESSURE, q. 1500 PSF (ASSUMED)

Date

