BLUE RIDGE HIGH SCHOOL – ANIMAL BARN GREENVILLE COUNTY SCHOOLS - GREER, SC

GOODWYN MILLS & CAWOOD, LLC MMSA, INC. PERITUS ENGINEERS & ASSOC., INC. **BURDETTE ENGINEERING**

ARCHITECTURE, INTERIORS, CIVIL, LANDSCAPE

STRUCTURAL ENGINEERING

MECHANICAL & PLUMBING ENGINEERING

ELECTRICAL ENGINEERING

BID SET

12



INDEX OF DRAWINGS SHEET NAME TITLE TI.00 TITLE SHEET GENERAL GI.00 INDEX OF DRAWINGS, ABBREVIATIONS / SYMBOLS, AND PERMIT APPROVALS G2.00 OSF F-3 TABLES G3.00 LOCATION PLAN G4.00 LIFE SAFETY PLAN G4.10 LIFE SAFETY DURING CONSTRUCTION G5.00 GENERAL NOTES AND SPECIFICATIONS

CIVIL C-2.0 EXISTING CONDITIONS C-3.0 DEMOLITION AND EROSION CONTROL PLAN - PHASE I C-3.1 EROSION CONTROL PLAN PHASE 2 AND DETAILS C-4.0 SITE / UTILITY PLAN C-5.0 GRADING PLAN ARCHITECTURE - SITE ASI.00 DEMOLITION AND NEW CONSTRUCTION SITE PLAN ARCHITECTURE A I .00 BUILDING AND SITE PLAN A2.00 REFLECTED CEILING PLAN AND ROOF PLAN A3.00 EXTERIOR ELEVATIONS STRUCTURAL SOOI GENERAL NOTES SOO2 BASIS OF DESIGN SIOI FOUNDATION SLAB PLAN S301 SECTIONS AND DETAILS MECHANICAL MI.OO HVAC BUILDING PLAN & SCHEDULES PLUMBING PI.00 PLUMBING BUILDING PLAN, SCHEDULES, RISER DIAGRAMS & DETAILS ELECTRICAL EO.OI ELECTRICAL SYMBOL LEGEND EI.OI ELECTRICAL SITE PLAN E2.01 ELECTRICAL LIGHTNING AND POWER PLANS

ESI.01 ELECTRICAL SPECIFICATIONS



VICINITY MAP



DESIGN AND CONSTRUCTION The following list is not all-inclusive of	<u>ON</u>
will require all of the permits listed belo	w.
Type of Development	S
Air pollutant discharge	4 6
Asbestos abatement	R
Building construction, Zoning	6.
Community residential care facilities	R
Construction in critical coastal areas	4
Construction in navigable waters	4
Dams and reservoirs	49 1,
Demolition of Real Property	R
Design Review Board (BARs, SC Dept. Archives & History, etc.)	v
Early Childhood Development	R
Elevators	4
Fire Department (Local)	V S
Fire, Building Automatic Sprinkler System and underground supply	4 R
Floodplains, construction in	E 1
Food service including concession and temporary	R
Hazardous waste management, Storage and disposal	4. R
Historical building rehabilitation	R
Road encroachment, local road	5
Road encroachment, state road	5
Sanitary sewer; grease trap	v
Sanitary sewer; treatment & disposal	R
Septic tank system	R
Storm water discharge, erosion and sediment control	R 10
Swimming areas, natural public	R
Swimming pools, public	R
Underground storage tanks	R
Waste discharge (sewage, industrial waste, etc.)	43 R
Water supply, potable	44 5
Water supply, fire protection system	40 R
Wells, Underground injection	R
Vocational facilities	v
Zoning(Municipal, County or District)	v

RELATED I	PERMITS AND APPROVAL	<u>s</u>
ry permit and star District and A/E'	ndard applicable to each project and n s must determine applicable permits f	ot all projects or each project.
C Law or Reg.	Where to Obtain Permit/Approval	Status
3-1-100, R61- 2.1	SCDHEC – Bureau of Air Quality	N/A
61-86.1	SCDHEC - Bureau of Air Quality	N/A
7-830, 6-9-110	Local Authority	PENDING
61-84	SCDHEC - Healthcare Facilities Licensing	N/A
3-39-10, 130, 90	SCDHEC - Ocean & Coastal Res. Mgmt.	N/A
9-1-16	SCDHEC - Bureau of Water	N/A
9-11-200, R72- 2, 3	SCDHEC - Bureau of Water	N/A
61-86.1	SCDHEC - Bureau of Air Quality	N/A
arious local	Various local	N/A
114-500	SCDSS – Child Care Licensing	N/A
-16-10, R71- 000-5900	SCLLR	N/A
arious local & ate	Servicing Fire Department	PENDING
)-10-260, 71-8300.4	State Fire Marshal	N/A
xec. Order 82-	SCDNR	N/A
61-25	SCDHEC – State and Local Office	N/A
4-56-20,60, . 61-79	SCDHEC - Bureau of Land & Waste Management	N/A
12-125, 126	Archives and History, Local Authority	N/A
7-7-60	Local City or County Authority	N/A
7-5-1080	SCDOT Traffic Engineering Office	N/A
arious local	Local City or County Wastewater Authority	N/A
61-56, 57	SCDHEC – Bureau of Water	N/A
. 61-56	SCDHEC - Bureau of Environmental Health Services	N/A
61-9; R72-100-)8	SCDHEC – Bureau of Water; State Engineer; Local Authority	N/A
61-50	SCDHEC – Bureau of Water	N/A
61-51	SCDHEC – Bureau of Water	N/A
61-92	SCDHEC – Bureau of Land & Waste Management	N/A
3-1-100, 110, 61-9	SCDHEC – Bureau of Water	N/A
4-55-40, R61- 7, 58	SCDHEC – Bureau of Water	PENDING
)-10-260, 71-8300.4	State Fire Marshal	N/A
61-71, 87	SCDHEC – Bureau of Land & Waste Management	N/A
arious	SCLLR Board of Cosmetology, SCLLR Board of Barber Examiners SCDHEC Food Service	N/A
arious	Local	N/A

																										_				_			
ACC	-	-	-	-	-	-	-	-	-	-	-		-	-	~ ^	-		-	~		-	-		A(C)上(55	jle T	3LI			EA	\
ACI	-	-	-	-	-	-	-	-	-	_/	41	ЛI	Ľ٢	210	ĴF	//	1	Ċ	C	N	Ċ	K	EI		۱۱ 	15			<u>ا</u> ال			EF	-
ACT _	-	-	-	-	-	-	-	-	-	-	-		-	-	A	С	0	U	S	T	C	;A	L	С	EII	_ \	١G	Ţ				EII	=5
ADD _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	A	DI	DE	ΞN	DI	UN	Λ		EJ	-
AFF _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		_ /	٩E	3(٦١	VE	-	FI	NI	Sł	1	FL	0	OF	2		EL	EV
ALT _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		_	-	-	-	. /	۹Ľ	TE	RI	NA	λTI	Ē		EL	EC
ALUM	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		_	-	-	-	. /	AL	U	MI	NI	UN	Λ		ΕN	IGR
APPRO	X	-	-	-	-	-	-	-	-	-			-	-	-		-	-		_	-	-	Al	PF	R	0>	KIN	ЛA	λTI	Ē		EC	DP
ARCH	-	-	-	-	-	-	_	-	-	-		-	_	-	_		-	-		Α	R	С	Ή	ITE	ĒC	T	(L	IR	AL)		EC	DS
ADJ	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		_	-	-	_		A	СĴ	A(CE	ΞN	Τ		EC	λ.
																																E٧	V
B/B																						B	Α	CK	(_1	TC)_F	3A	C	\langle		E٧	VC
BC	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	B	Δ.	51 57	= (: C), , `	RF	` ۲		ЕX	Ή
BD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-		// \\		- (F	ר אר)Δ	R	ר		ЕX	(IST
	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-		F	- L 211		וח				ЕX	Έ
BIKG	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-		. L RI))	KI	NIC	2		ЕX	(PN
BM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	F				-1N	Λ Λ	P) (ЕX	T
	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	L		יאו. ו	CI R/	UIV TC	Π Τ(11/1 71	1			
BRC	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-		_ I		= \	PI		~		FF	30
BGMT	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-	 F	- I 		-7 FN			כ ד		FΓ)
BUD	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	- R	-	. L 11 T	קע ו ד					I F		FF	-
BOW	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		B	\sim		υ τ	ILI N	-L	ור רע			101 A 1	 		FF	F
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		Ľ		1	10	Jr			ו י דע	V V / N / E		L		FF	۲. ۱۸/
D/VV -	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-		- C	JL	IV	۷L	-LI	N		' ' F⊢	10
																																F/F	=
CAB _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-		_	С	٩E	311	1E	Т		FI	_
СВ	-	-	-	-	-	-	-	-	-	-			-	-	-		-	-		_	-	-	С	A1	ГC	Η	В	AS	311	1		r L Fl	C -
С/С	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	C	Æ	N	T	ER	C T	0	С	E	NT	EF	2		FN	.G. 10
CD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	С	0	RE	5 [DE	C	\langle		1 1	
CF	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		_	-	-	(CL	JB	IC	F	0	0	Т			
CFCI _	-	-	-	-	-	-	-	-	-	-		-	-	C	C) \	1T	R	A	С	T(С	R	Fl	JR	ĽΝ	IS	HE	ΞD	,		FC)_
															C)(٦٢	1T	F	?A	С	T	0	R	IN	S	ΤA	LL	.E[)		FC	ЭB
	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-	. (CA	S	1	IR	0	V		FC	C
	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	_(Cł	45	σT	IF	RC)N	Ρ	IPI	E		FC	DF
CJ	-	-	-	-	-	-	-	.()(JN	5	1	RI	JC	7	1(V	C	R	. ()() NC	11	R(CL	. J	0	IN]		FC	DM
CLG _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-			_ (E		N(, , ,		FC)S
CLO _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	~			_(,L(FR	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	~	~	-	-			-	-) 	LE		K T	(A 	N(.)		FR	ςΤ.
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C)	K	KI	U F	Gi	A		=D		/IE	. .	AL	Ρ				FT	•
CMU _	-	-	-	-	-	-	-	-	-	-		-	-	C	,C	N	IC	νR	E		_	N	1A	5(۷K - ^	Y	U	NI	 -		FT	G
CO _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-	-	. (L		N/	C					
COL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	-	-	_ (C(JL م	UI.	MI 	V		GA	4
CONC	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-		(Rt Ti		5		GA	ALV
CONN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-) ~~			NE		(N		GE	3_
CONST		-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	10	-	-()(12) 		N 		Gł	ЧМ
CONT	-	-	-	-	-	-	-	-	-	-	-	-	_(N۱		IP	٩L	J	ור	15	2	0	K			1 I 7 I					GI	_
COURL)_	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	C			אי וחי	ノ =ㅜ		111 			G١	NB
	-	-	-	-	-	-	-	-	-	~ ^		~	-	-	-		-	-	٨	- 	-	-			4K ~`			1) יייי	LU NU-	リー		G١	ſΡ
CSIMU	-	-	-	-	-	-	-	-	.(CF	٩L	L	IU	IV		21	LI	C	A	. [_	IV	1A 0	50		VK	(Y	U	NI 				
	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	-			KA T			·		L		Η	_
CW	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		-	-	.(U	JR	(17	λΠ	11	VV /	AL	L		HC	Ο,
																																H١	Λ_{-}
D	_	_	_	_	_	_	_	_	-	_		-	_	_	-		-	_		_	_	-	_			-	DI	RY	ÆF	२		HC	DD
DBL _	_	_	_	_	_	_	_	_	_	_		-	_	_	_		_	_		_	_	_	_			D	OI	UE	3LI	E		HC	DRI
DEM _	_	_	_	_	_	_	_	_	-	-		-	_	D	En	Л	0	LI	S	H	(D	R	DE	ΞN	1C)LI	TI	0	V		ΗF	-
DET	-	-	-	-	-	_	-	-	-	-	-	-	_	-	-		-	-		_	_	-	_			-	DE	ΞT	ΆI	L		HS	55
DH	_	_	_	-	-	_	-	_	-	-		-	_	_	-		-	-		_	_	[20	DL	JВ	LE	Η	IU	NC	Ĵ		ΗT	_
DIA	-	-	_	-	-	-	-	-	-	-	-	-	-	_	_		-	-		_	_	-	-		D	IA	Μ	ΕT	EF	२		H١	/AC
DIAG _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		_	_	-	-		D	A	G(٦N	١A	L			
DIM _	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-		_	_	-	-	D	NIN	ΛE	NS	31	0	V		H٧	N_{-}
DL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		_	-	-	-	D)E/	٩C) [0	A)			
DS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	-	Ľ	C	W	'N:	SF	С)U	Т		ID	_
DWG _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		_	-	-	-)R	A١	ΝI	NC	5		IE	_
DF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	_[D	RI	NI	K	IN	G	F(Эl	JN	IT,	411	1		IJ	_
																																IN	_
																																IN	SUI

ENGR.

EXIST

EXPN -

GALV

GWB

HORIZ

INSUL

HVAC

	ROOM REFERENCE SYMBOL	ROOM NAME
	CONSECUTIVE NUMBERS ARE USED FOR COLUMN LINES RUNNING NORTH & SOUTH	2
	CONSECUTIVE LETTERS ARE USED FOR COLUMN LINES RUNNING EAST & WEST	
	FACE OF MASONRY OR FACE OF GIRDER	
M>	ELEVATION MARK SYMBOL: 677.52 - ELEVATION (FT)	677.52
<u>\</u>	ELEVATION I ON SHEET AIOI	A1.01
(INTERIOR ELEVATION SYMBOL: INTERIOR ELEVATION 3 ON SHEET AIOI	3 AI.01

5

4

11

ABBREVIATIONS

10

																						_
ND RE(2'D_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		F
)# RE1	「	-	_	_	_	_	_	_	_	_	-	_	-	_	_	_	_	_	_	_		R
NT REV	/ _	_	_	_	_	_	_	_	_	_	_	_	_	_	_	R	E\	/15	510	DN	(5	5),
IN RH																					R	16
RI		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	FC	FC	30
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		LU	LU	رر
D) RM	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
DT RO		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	R	OL	JG	Η
if RO	W_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	R	lG	H.
⊳v RTI	J																			RC)()	F
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	
۲Y د د																		~			n	\sim
ID SC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	L/	۱LC	.U	C
AD SC	HED	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		эC
AL SD	-	-	_	_	_	_	_	-	_	_	_	_	_	-	_	_	_	_	_	_ C	ST(DF
AI SEC	CT																					
UT SF																					ST	
	 A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0
GE SIN	/I _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
HT SPI	:C _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ے ت	۶۲	ЕĊ	111	C
SQ		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
AL SS		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_ (3C	LIE)
IM 55	T																		5	TΑ	N	F
	י <u>-</u> ר	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	17 \		 C
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		J
AL 511		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
VE ST(DR _	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
R) STR	RUC ⁻	Т	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	51	ſR
IF SY			-	-	-	-	_	-	_	-	-	-	-	-	-	-	-	-	-	G		
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			זכ
M TFI	F																				-	TF
IG ILL	.L _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DN IEK	<Μ _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IE	KI
T\$C	, ,	-	_	_	_	_	_	_	_	_	-	-	_	-	-	_T	0	NG	SU	Εı	٩N	D
~⊤ TH		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	TΗ	
=n THK	\langle																				ΤН	$\ ($
IK TO	` -	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		
AL TO	~ -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-
LE TO	<u> </u>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	Ρ
TO	GB _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.Τ	O	Р (DF	G
n TOI	F	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	T(DP	0	F
$r_{\rm D}$ TO.	I																			٦	$\overline{0}$	Ρ
(\mathbf{D})	с. С	-	-	-	-	-	-	-	-	-	-	-	Т		- - <	٦F	ŝ	- Ι Λ	R	/ T		Þ
5) TO.		-	-	-	-	-	-	-	-	-	-	-			C	Л	J	LA	U	/ 1		
ER 10'	N _	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	IC	P
d. Tyf		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
TZ n		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		T
-D																						
	\cap													111	М	FC	5	N	\cap	ΓFΓ	ר ר	71
IG UN	<u> </u>	-	-	-	-	-	-	-	-	-	-	-	-	U	NL	LU		IN	U			וכ
TE																						
VB		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_ \	/
VC VC	Τ	_	_	_	_	_	_	_	_	_	_	_	_	_	V	IN	YL	С	O	MF	0	51
vi Te VEB	RT																					
	ν Γ	-	-	-	-	-	-	-	-	-	-	-	_	-	-	- \	- /IN		- \	- λ/Λ	11	\hat{c}
te vv	U .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- \	/11	чII	L \	νA		C
D)																						
D W												\//	A٢	5Н	FR	2/	W/	D	T⊦	1/	W/I	Γ
		-	-	-	-	-	-	-	-	-	-			- 1		• /	v۷		4 T	• /	14/	ירי היי
		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_VV	
ש WC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	W	Αľ	Eŀ
DT WD		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
CH WH		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	W	ΆT	E
)/ \//N	1																					
~, viii ~~ \\/D	• • •	-	-	-	-	-	-	-	-	-	-	-	- ()	- 2K	Þ	- ר)	- - NI	- ,	-	- //T	FF	- > p
		-	-	-	-	-	-	-	-	-	-	٧V	U		. Г	\cup	IN	/	٧V	н١	Lr	1
je WT		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
NT W/V	۷	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_ V	VA	LL
DD WW	/F _	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	W	EL	DE	ΞD	W	IR
\//	-																	2				
	 \	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
LL VV/C	/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-

EACH	K
CH FACE	KIP
SYSTEM DN JOINT	KJ KEY JOINT KSI KEY JOINT
RIC (ALL) NCINEEP	LAM LAMINATE (D)
	LFLINEAR FOUT
OF SLAB	
FQUAL	
CH WAY	
COOLER	
EXHAUST	
EXISTING	IIV LONG LEG VERTICAL
XPOSED	LPLOW POINT
PANSION	LT GA
XTERIOR	LTLIGHT
OTHERS	MATL
R DRAIN	MAX
CABINET	MC
EVATION	MECH MECHANICAL
OF WALL	
CADINEI	
FLOOP	
	MULLION
	NIC
FACE OF	NO
OF BRICK	NOM NOMINAL
DNCRETE	NTS
F FINISH	
ASUNKY	O/HOVERHEAD
	OC ON CENTER (5)
D), (ING) TREATED	OULC
)OT/FFFT	
	CONTRACTOR INSTALLED
	OH OPPOSITE HAND
GAUGE	OPG OPENING
VANIZED	OPP OPPOSITE
RAB BAR	
N METAL	PJ PRECAST JOINT
ED IRON	PL PROPERTY LINE, PLATE
BOARD	PLAM
GYPSUM	PNT PAINT (ED)
	PREFAB
	PREFIN
MFTAI	PREMANUF PREMANUFACTURED
	PSF
IZONTAL	PT POINT / PPEGGLIPE TPEATED /
E POWER	
AL STEEL	
HEIGHT	PVMT PAVFMFNT
ON / AIR	PWD
TIONING	
RDWARE	QT QUARRY TILE
IAMETER	
EVATION	RA
DN JOINT	RAD
INCHES	RB RUBBER BASE
ULATION	RCP
	RD ROOF DRAIN
CLOSET	REINFORCEMENT BAR
GIKDER	REFRIGERATOR / REFERENCE
JUINI	KLINF KEINFORCE (D), (ING)

-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	_				E	AC	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		EA	١C	ΗF	AC	E
-	-	-	-	-	-	-	ЕX	(TE	ĪR	IC	R	IN	5	U	LA	TI	0)N	FIN	IISH		SYS	TEN	Л т
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- FI	F١		ΕΧ ΔΤ		N) 1 / F	Ur Fi F	- - - - - - - - - - - - - - - - - - -		2 2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			vr		EI	EC	tr.	. v – IC		
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_		_ [ΞN	GIN	JEEI	-, 7
_	_	_	-	-	-	_	_	_	_	_	_	-	_	_	-	E	D	GE	ΞO	FΡ	A٧	/EN	1EN	Т
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- EC)GE	0	FS	5LAE	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				EC	QUA	L
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=~	τr	ว เ.			- Ľ ted	AC	CH	WA' NEI	Y >
-	-	-	-	-	-	-	-	-	-	-	-	-	L	LL	_0	11		C	WA	ILN	ς C Fγ	ΉΔ		T
_	_	_	_	_	_	_	_	_	_	_	_	-	-	_	-	-	-	_			-E>	(15 ⁻	TIN(
_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-		_			ΕX	PC	SE)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		EX	(PA	٩NS	6101	V
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	ЕX	TER	RIOI	२
														_										-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	ŀ	-U	RI	VI	St	1ED) By) / סר			5
-	-	-	-	-	-	-	-	-	-	-	- FII	RF	- F	=v	- TI	N <i>I</i> (21	- C	_ I SHF	LUU R &			CAII INF	N T
-	-	-	-	-	-	-	-	-	-	-	1 1	ΝL	F	-^ FIN		5H	90 	FI (r fi	. C		TIOI	l V
-	_	_	_	_	_	-	_	_	-	_	_	-			F	=11	, , 11:	St	1 F.A	ACE	0	νFν	VAL	L
_	_	_	_	_	_	_	_	-	_	_	_	-	_	_	F	=1F	RE	ΞH	105	jE ∉	С	AB	INE	Т
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_ FA	ACE	T(ЭF	AC	E
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				FL(2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	 F		_ \	-LA - ^ -	NG.	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	l	ΟU	ЛЛГ	JA	ΠΟΙ	N
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			F	ACI	ΞO	F
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	FA(CE (OF	B		<
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	٢	A	CE.			UI DE			
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ſ	F F /	- I A.C.	F C)FN	ر ۸۸	יו ו הר	NR,	ו Y
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-10	_FA	CE	0	F S	TUE)
_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	-	_	FR	AN	1E (1	ED), (ING	;)
-	_	-	-	-	-	-	_	-	-	-	_	-	FI	IR	E	RĒ	ĒT	ĀF	RDA	ANT	TF	REA	\TE[)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		_ F(00	DT/	FEE	Т
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-+(00	IINC	2
																						GΔ	UG	F
_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_		_	_		GA	LV	AN	IZEI)
-	_	-	-	-	-	-	-	-	_	_	_	-	-	-	-	-	-	-		_ G	FR/	٨B	BAI	२
-	-	-	-	-	-	-	-	-	-	-	_ (GΑ	Ľ	V	41	IIZ	E	D	HO	LLC)W	M	ETA	L
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			GA Si i		ANI.	ZE		RO	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	G	ĬĬ		20	IVI \	NAL	L G	DU YP9	'ARL SI IN) 1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			_ 0	11.		/1
-	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_	-		_				HE	IGH ⁻	Т
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		_ F	IAI	ND	CA	P
-	-	-	-	-	-	-	-	-	-	-	-	- -	-	- -		т -	- ,	-	HO)\\\ =	M	ETA	
-	-	-	-	-	-	-	-	-	-	-	-	Π	16	- Π	IE:	21	(JP	ΈR	ADL H∩I	.e Rij			[
-	-	-	-	-	-	-	-	-	-	-	-	-	-	- Gt	- 	۲)	- NT	/НС)RS	iriz F	201 P0	WF	L 7
_	_	_	_	_	_	_	_	_	_	_	- _	-1C)L	L(DV	ر ۷ (5	TR	UC	TUR	- RAI	_ 5	TEE	Ĺ
_	_	_	-	-	-	_	_	_	_	-	_	_	_	-	-			_				HE	IGH ⁻	Т
-	-	-	-	-	-	-	-	-	-	-	-	HE	A	TI	N(G	/	VE	NT	ILAT	TIC)N /	/ All	२
																			СС	DNE				
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		.Π/	٩K	υW	AK	L
																		IN	ISIE)F ſ	∆ار	<u>\</u> \/F	=TFI	2
-	_	-	_	_	_	_	_	-	_	_	_	_	-	-	-	-	-	N۷	/ER	T EI	LE	VA ⁻		Ň
-	_	-	_	-	_	-	-	-	_	_	_	-	-	-	_	-	-	_10	60L	ATI	O١	1 J(DIN.	Т
-	_	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	_ IN	CH	/	NC	HES	5
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		INS	5U	LA	TIOI	V
																	ļ	ΔN	JITO) Ric	5 ()SF	Т
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_ J	ur Al'	۰۱۰ ال _	015	T (GIR		' २
-	_	_	_	_	_	_	_	_	_	_	_	_	-	-	_	-	-	_				(DIN	T

ANNOTATION SYMBOLS



 $\mathbf{\hat{P}}$



PLAN NORTH



 $\mathbf{\hat{1}}$ TRUE NORTH

SPECIALTY EQUIPMENT TAG: SEE SPECIALTY EQUIPMENT SCHEDULE PLAN KEYNOTE TAG: NOTE NUMBER A SEE PLAN KEYNOTE SCHEDULE

BUILDING SECTION SYMBOL:

ENLARGED DETAIL SYMBOL:

A

AI.01

TAOI

WALL SECTION SYMBOL: SECTION | ON SHEET AIOI

AL.01

AI.01

WINDOW SYMBOL WINDOW TYPE A (SEE EXTERIOR ELEVATIONS AND WINDOW SCHEDULE)

LOUVER SYMBOL: LOUVER TYPE LI

<u>FFŧE:</u> BY OTHERS

USED TO INDICATE SCOPE OF CURRENT REVISION

DOOR SYMBOL: DOOR NUMBER 101

(SEE DOOR SCHEDULE AND FLOOR PLANS)

DOOR TYPE A

(SEE LOUVER SCHEDULE)

<u>WALL SYMBOL:</u> OG _____ WALL TYPE OG (SEE PARTITION LEGEND)



BUILDING CODE ANALYSIS

DATE: <u>4.19.2024</u>

FORM F3

SUBMITTAL:		CHEMATIC		DESIGN E	DEVELOPMENT	X CON	STRUCTION DOCUME	NT
SC CODE EDITION:	2021	ICC CODE EDITIO	DN:	2021	ICC A117.1 EDITION:	2017	OSF GUIDE EDITION:	2023
OTHER CODES/STAN	DARDS &	EDITIONS:						

3

Project Description: [Brief Scope of Work & Include Project Delivery Method (i.e. CMR, etc.)]

The demolition work will remove and existing greenhouse and antenna tower in thier entirety. The new construction building is a standalone pre-engineered metal building to be used for an animal barn. Site work consists of minor asphalt tie-in, utility tie-in and new fencing. The project delivery method is design-bid-build.

]	BASIC BUILDI	NG CODE INF	ORMATION			
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
		SCBC	□ SCBC	□ SCBC	□ SCBC	□ SCBC
	-	□ SCEBC	□ SCEBC	□ SCEBC	□ SCEBC	\Box SCEBC
CONSTRUCTION CLASSIFICATION TYPE	Section 602	V-B				
OCCUPANCY GROUP (indicate all)	Section 302	U				
MOST RESTRICTIVE OCCUPANCY GROUP	Tables 504.3, 504.4 & 506.2	U				
Does building require Incidental Use Separation?	Section 509	TYES X NO	🗆 YES 🗖 NO	🗆 YES 🗖 NO	🗆 YES 🗖 NO	\Box YES \Box NO
Does building have Accessory Occupancy (ies)?	Section 508.2	TYES X NO	TYES INO	TYES INO	🗆 YES 🗆 NO	□ YES □ NO
What is the aggregate square footage of the accessory occupancy (ies)?	Section 508.2	N/A SF	SF	SF	SF	SF
What percentage of the story is the aggregate of the accessory occupancy?	Section 508.2	N/A %	%	%	%	%
Mixed Occupancy		TYES X NO	TYES INO	TYES INO	TYES INO	□ YES □ NO
	Section 508	Nonseparated	□ Nonseparated	□ Nonseparated	□ Nonseparated	□ Nonseparated
		□ Separated	□ Separated	□ Separated	□ Separated	□ Separated

DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3
Method of Compliance: (Check one Option and all items that	☐ Option 1: Perspective Compliance Method (Ch. 3,5)	☐ Option 1: Perspective Compliance Method (Ch. 3,5)	☐ Option 1: Perspective Compliance Method (Ch. 3,5)
apply under that Option.)	□ Alteration	□ Alteration	□ Alteration
	□ Addition	□ Addition	□ Addition
	□ Change of Occupancy	Change of Occupancy	□ Change of Occupancy
	Historic Building	Historic Building	Historic Building
	Doption 2: Work Area Compliance Method (Ch. 3, 6-12)	Option 2: Work Area Compliance Method (Ch. 3, 6-12)	Option 2: Work Area Compliance Method (Ch. 3, 6-12)
	Alteration Level 1	□ Alteration Level 1	Alteration Level 1
	Alteration Level 2	Alteration Level 2	Alteration Level 2
	Alteration Level 3	☐ Alteration Level 3	Alteration Level 3
	□ Change of Occupancy	□ Change of Occupancy	□ Change of Occupancy
	☐ Additions	☐ Additions	☐ Additions
	Historic Building	Historic Building	Historic Building
	Aggregate area of building: SF Work area: SF	Aggregate area of building: 17,431 SF Work area: 892 SF	Aggregate area of building: S Work area: SF
	Option 3: Performance Compliance Method (Ch. 3, 13)	Option 3: Performance Compliance Method (Ch. 3, 13)	Option 3: Performance Compliant Method (Ch. 3, 13)
Original Building Code and Education Applicable at the time of Construction:			
Existing Sprinkler System?	TYES NO	TYES NO	TYES NO
Existing Fire Alarm System?	🗋 Manual 🔲 Auto	🗆 Manual 🔲 Auto	🗆 Manual 🗖 Auto
Seismic Evaluation System?	□ YES □ NO	TYES NO	□ YES □ NO
Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	□ YES □ NO	□ YES □ NO	□ YES □ NO
č	□ Preservation	□ Preservation	□ Preservation
	□ Rehabilitation	□ Rehabilitation	□ Rehabilitation
	□ Restoration	Restoration	□ Restoration
	Reconstruction	Reconstruction	Reconstruction

	EXISTING BUILDING COD	E INFORMATION [SCEBC]
DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: (Check one Option and all items that	Deption 1: Perspective Compliance Method (Ch. 3,5)	Option 1: Perspective Compliance Method (Ch. 3,5)
apply under that Option.)	□ Alteration	□ Alteration
	□ Addition	□ Addition
	□ Change of Occupancy	Change of Occupancy
	Historic Building	Historic Building
	Option 2: Work Area Compliance Method (Ch. 3, 6-12)	Option 2: Work Area Compliance Method (Ch. 3, 6-12)
	□ Alteration Level 1	Alteration Level 1
	Alteration Level 2	Alteration Level 2
	☐ Alteration Level 3	Alteration Level 3
	□ Change of Occupancy	Change of Occupancy
	□ Additions	□ Additions
	Historic Building	Historic Building
	Aggregate area of building: SF Work area: SF	Aggregate area of building: 17,431 SF Work area: 892 SF
	Option 3: Performance Compliance Method (Ch. 3, 13)	Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Education Applicable at the time of Construction:		
Existing Sprinkler System?	□ YES □ NO	TYES NO
Existing Fire Alarm System?	🗆 Manual 🔲 Auto	🗆 Manual 🔲 Auto
Seismic Evaluation System?	□ YES □ NO	□ YES □ NO
Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	□ YES □ NO	TYES NO
	Preservation	Preservation
	□ Rehabilitation	□ Rehabilitation
	□ Restoration	Restoration
	Reconstruction	□ Reconstruction

STORY	Area 1	Area 2	Area 3	Area 4	Area 5	
TOTAL:	4					

2

3

4

DESIGNATED AREAS OF BUILI At Tabular allowable area factor (NS, SI SM as applicable) in accordance with IBC 506.2 Allowable Area Increase (Equations 5-1 through 5-5, as applicabl IBC Section 506.3.2 Equation 5-4 where $W = (L_1 x W_1 + L_1 x W_1 + L_1 x V_1)$ W = Width of public way or oper $L_n =$ Length of a portion of exterior perimeter wall $W_n = Width (> = 20 feet) of pub$ open space associated with that the exterior perimeter wall F = Building perimeter that frompublic way or open space having 20 feet or more IBC Section 506.3.3 Equation 5-5 where $I_f = [F/P - 0.25] W/30$ I_f = Area factor increase due to f F = Building perimeter that frompublic way or open space having 20 feet or more P = Perimeter of entire building W = Width of public way or ope accordance with Equation 5-4 Alllowable building area per story in squa calculated by Equation 5-1 through 5-3 (equation used) IBC Section 506.2.1 $\mathbf{A}_{\mathbf{a}} = \mathbf{A}_{\mathbf{t}} + (\mathbf{N}_{\mathbf{s}} \mathbf{x} \mathbf{I}_{\mathbf{f}})$ IBC Section 506.2.3 I $\mathbf{A}_{a} = [\mathbf{A}_{t} + (\mathbf{N}_{s} \mathbf{x} \mathbf{I}_{f})]$ IBC Section 506.2.4 I $\mathbf{A}_{\mathbf{a}} = [\mathbf{A}_{\mathbf{t}} + (\mathbf{N}_{\mathbf{s}} \mathbf{x} \mathbf{I}_{\mathbf{f}})]$ N_s = Tabular allowable area factor in with Table 506.2 for a non-sprin building (regardless of whether a is sprinklered) $S_a =$ Actual number of building s grade plane, not exceed three (3 buildings equipped throughout automatic sprinkler system instal accordance with SCBC Section use the actual number of building above grade plane, not to exceed MAXIMUM AREA PER STORY AREA AS DESIGNED PER STORY (Repeat for each story)

ESIGNATED AREAS OF BUILDING	Building Code	Are	ea 1
HEIGHT	-	DESIGNED	ALLOWED
In Feet	Table 504.3	15' - 6"	40'
In Stories	Table 504.4	1	1

GENERAL FIRE PROTECTION REQUIREMENTS							
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5	
SEPARATIONS	1		I	1			
Fire Wall Required	Section 706	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Fire Barrier Required	Section 707	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	🗆 YES 🗖 NO	
Fire Partition Required	Section 708	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Smoke Barriers Required	Section 709	TYES X NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Smoke Partitions Required	Section 710	TYES X NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Fireblocking	Section 718.2	TYES X NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Draftstopping	Section 718.3 & 718.4	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	Section 509.4	□ YES 🖾 NO □ YES 🖾 NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	
ALARM AND DETECTION							
Fire Alarm and Detection System Fire Alarm Mass Notification Emergency voice/alarm comm.	SCFC Section 907	□ YES 🛛 NO □ YES 🖾 NO □ YES 🖾 NO	□ YES □ NO □ YES □ NO □ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO □ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO □ YES □ NO	
Emergency Alarm System Required	SCFC Section 908	🗆 YES 🛛 NO	🗆 YES 🗖 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
SUPPRESSION							
Automatic Sprinkler System Provided Required	SCFC Section 903	□ YES 🖾 NO □ YES 🖾 NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	
Alternative Automatic Fire Extinguishing Kitchen Hoods Other	SCFC Section 904	□ YES 🛛 NO □ YES 🖾 NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO	
Standpipes Required	SCFC Section 905	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Portable Extinguishers Required General Building Kitchen Labs	SCFC Section 906	X YES □ NO □ YES X NO □ YES X NO	□ YES □ NO □ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO □ YES □ NO	□ YES □ NO □ YES □ NO □ YES □ NO	
Smoke Control System	Section 909	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Smoke and Heat Removal Required	SCFC 910	TYES X NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Fire Department Connections	Section 912	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Carbon Monoxide Detection	Section 915	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Gas Detection Systems	Section 916	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Emergency Responder Radio Coverage	Section 918	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Fire Apparatus Access and Water Line	SCFC 503 & 507	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	🗆 YES 🔲 NO	
2-way Communication Required	Section 1009.8	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	🗆 YES 🗖 NO	
Area of Refuge (e.g. Separation, Two-Way Communication, and Instruction)	Section 1009.6, 1009.9, 1009.10, & 1009.11	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Exterior Area for Assisted Rescue (e.g. Separation, Openness, and Instruction)	Section 1009.7, 1009.9, 1009.10, & 1009.11	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	
Safe Dispersal Area	Section 1028.5	🗆 YES 🛛 NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	□ YES □ NO	

5

	ALLOWABLE F	BUILDING AREA			
LDING	Area 1	Area 2	Area 3	Area 4	Area 5
1, S13R or 3C Table	$A_t = U (NS)$ 5,500 SF	$A_t =$	$A_t =$	$A_t =$	$A_t =$
le)	🗆 YES 🕱 NO	🗆 YES 🔲 NO	🗆 YES 🔲 NO	🗆 YES 🔲 NO	🗆 YES 🔲 NO
<u>e:</u>	N/A	N/A	N/A	N/A	N/A
x W1 +) / F	$L_n =$	$L_n =$	$L_n =$	$L_n =$	$L_n =$
en space erior	$W_n =$	$W_n =$	$W_n =$	$W_n =$	$W_n =$
blic way or t portion of	W =	$\mathbf{W} =$	W =	W =	W =
nts on a ng a width of	F =	F =	F =	F =	F =
<u>e:</u>	P =	P =	P =	P =	P =
frontage					
nts on a ng a width of	$I_f =$	$I_f =$	$I_f =$	$I_f =$	$I_f =$
g (feet)					
oen space in					
uare feet as (Indicated	N/A	N/A	N/A	N/A	N/A
Equation 5-1)	$N_s =$	N _s =	N _s =	$N_s =$	$N_s =$
Equation 5-2 [)] x S _a	$S_a =$	$S_a =$	$S_a =$	$S_a =$	$S_a =$
Equation 5-3					
n accordance inklered <i>r the building</i>					
stories above 3). For with alled in 1 903.3.1.2, ng stories ed four (4).	$A_a = SF$	$A_a = SF$	$A_a = SF$	$A_a = SF$	A _a = SF
	5,500 SF				
	1,714 SF				

			D. 111 1	D. 11
DESIGNATED AREAS	S OF BUILDING	Building Code	Building I	Building
	As Required, Hrs		0	0
Primary Structural Frame	As Designed, Hrs	Table 601	0	0
	No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Bearing Walls, Exterior	As Designed, Hrs	Table 601	0	0
Exterior	No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Bearing Walls, Interior	As Designed, Hrs	Table 601	0	0
	No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Nonbearing Walls and Partitions,	As Designed, Hrs	Table 601	0	0
Interior	No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Nonbearing Walls and Partitions,	As Designed, Hrs	Table 602	0	0
Exterior	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Floor Construction and associated	As Designed, Hrs	Table 601	0	0
secondary members	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Roof Construction and associated	As Designed, Hrs	Table 601	0	0
secondary members	Testing Agency & Design No. (UL, FM, etc.)		N/A	N/A
	Wall Partition Key Code		N/A	N/A
Fire Walls	As Required, Hrs		N/A	N/A
	As Designed, Hrs	Section 706		
	Testing Agency & Design No. (UL, FM, etc.)	Section 700		
	Wall Partition Key Code			
	As Required, Hrs		0	0
	As Designed, Hrs	Section 707	0	0
Fire Barriers	Testing Agency & Design No. (UL, FM, etc.)	Section 707	N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
	As Designed, Hrs	Section 708	0	0
Fire Partitions	Testing Agency & Design No. (UL, FM, etc.)	Section 700	N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
	As Designed, Hrs	Section 700	0	0
Smoke Barriers	Testing Agency & Design No. (UL, FM, etc.)	Section 709	N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
	As Designed, Hrs	G	0	0
Smoke Partitions	Testing Agency & Design	Section 710	N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
Horizontal	As Designed, Hrs		0	0
Assemblies	Testing Agency & Design	Section 711	N/A	N/A
	Wall Partition Key Code		N/A	N/A
	As Required, Hrs		0	0
	As Designed, Hrs		0	0
Shaft Enclosures	Testing Agency & Design	Section 712 & 713	N/A	N/A
	Wall Partition Kev Code		N/A	N/A
	As Required, Hrs		0	0
Opening & Protective	As Designed, Hrs		0	0
Listing by Category (fire, shutters, doors, etc.)	Testing Agency & Design	Section 716	NI/A	
	No. (UL, FM, etc.) Wall Partition Key Code		N/A	
	As Required, Hrs		0	0
	As Designed, Hrs		0	0
Others (as required by Designer)	Testing Agency & Design		N1/A	
	No. (UL, FM, etc.)		N/A	N/A
	wall Partition Key Code		N/A	N/A

FLOOD HAZARD AREA	- 1	NO FLOOD	ZONE ON	I SITE
Base Flood Elevation (NV	GD or FIRM)		N/A	MS
Design Flood Elevation SC	CBC 1612.3 and ASCE 24		N/A	MS
NON HIGH-VELOCITY	WAVE ACTION			
Elevation of Lowest Propo 2.6.2.1)	sed Floor (Meet ASCE 24 Section	1		MS
Dry Floodproofing	(ASCE 24)		□ YES	🛛 NO
HIGH-VELOCITY WAVE	EACTION			
Elevation of bottom of Low lowest floor	vest Horizontal Structural Member	of	TBD	MS
Flotation Resistant	(ASCE 24)		□ YES	🛛 NO
Breakaway Wallpaper	(ASCE 24)		□ YES	🛛 N

FIRE SERVIC	CE INFORMATION	N
Service Line Size		N/A
Fire Department Connection	Location	
Backflow	Location	
	Туре	
Fire Hydrant Flow Test	Date	
	Flow	
	Residual	
	Initial	

7

INSULATION Roof Walls Under GLAZ

8

DING ELEMENTS Building 2 Building 3 Building 4 Building 5 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 _____ N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 Ο 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 Δ 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0 0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A N/A 0

0 0 0 0 0 0 0 N/A N/A N/A N/A N/A N/A N/A

ENERGY INFORMATION

INSCLATION		
Poof	Cavity	tbd R
Köör	Continuous	7 R
Walls	Cavity	TBD R
w ans	Continuous	7 R
Underslab		
GLAZING (each type)		
	North	TBD %
	East	TBD %
window to wall Ratio	South	TBD %
	North	TBD %
Glass Type	U Factor	TBD
	SHG	TBD
Summary of data approved	ASHRAE 90.1 com	pliance sheets.

10

STRUCTURAL DESIGN IFORMATION, AREA							
		Building Code	Area 1	Area 2	Area 3	Area 4	A
OCCUPANCY CATE	GORY	Table 1604.5	N/A	-	-	-	
LIVE LOAD FOR	Floor Live Load, F ₁₁	Figure	150 PSF	PSF	PSF	PSF	
EACH OCCUPANCY Roof Live TYPE Ground Sr	Roof Live Load, R _{ll} Ground Snow Load, P _g	1608.2 or ASCE 7	20 PSF 10 PSF	PSF	PSF	PSF	
MISCELLANEOUS LOAI (ARCHITECTURAL, MEC ETC., ASCE 7)	OS BY SPECIAL USE AREA CHANICAL, DATA CENTER,	ASCE 7	PSF	PSF	PSF	PSF	

11

		_		
SOILS, SITE			STRU	CTURAL DESIGN INFORM
SOILS INVESTIGATION REQUIRED? (IBC 1803.2)	🗆 YES 🛛 NO			Analysis Procedure (ASCE 7 or SC
SOILS CLASSIFICATION				Basic Wind Speed, MPH (3 sec gust IBC Fig. 1609.3)
Seismic Site Class (SCBC 1613.3.2)			WIND LOADS	Exposure Category
Classes Soil of Materials (UCS System) (SCBC 1803.5.1)			LOIDS	Wind Importance Factor (ASCE 7 1
Allowable Footing Bearing Pressure	TBD psf			Internal Pressure Coefficient (ASCE
MINIMUM DESIGN SOIL BEARING LOAD (IBC 1803.2)	psf			External Pressure Coefficient (ASCI
COMPACTION				Seismic Importance Factor (ASCE 7
Subgrade (ASTM D698, ASTM D1557) or (AASHTO only fr paving & roads)	TBD %			Site Class (SCBC 1613.3.2)
Base (ASTM D698, ASTM D1557) or (AASHTO only fr paving & roads)	TBD %			Mapped Spectral Response Accelera
Other (ASTM D698, ASTM D1557) or (AASHTO only fr paving & roads)	TBD %			Design Spectral Response Accelerat Parameters
MINIMUM DESIGN SOIL LATERAL LOAD (IBC 1804.6)	psf			Seismic Use Group (ASCE 7 and S Occupancy Category IBC)
FOOTINGS				Seismic Design Category
Undisturbed footings	🗆 YES 🛛 NO		SEISMIC LOADS	(SCBC Tables 1613.3.5(1) & 1613
Compacted Fill Material (SCBC 1804.6)	🗆 YES 🛛 NO			Basic Seismic Force Resisting System
FLEVATIONS				Design Base Shear
				Seismic Response Coefficient(s) AS
Elevation of water lable	IBD MSL			Response Modification Factor(s) AS
Elevation of lowest footing	TBD MSL			Analysis Procedure
Elevation of lowest floor or basement	1002 50' MSL			Analysis Flocedule

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on S & Section 1705 of the 2018 South Carolina Building Code. Any deviations from the requirements of Section 1704 and/or Section 1705 must be approved by OSF. Per SCE 16 and ASCE 7 – This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural
STATEMENT OF SPECIAL INSPECTIONS

MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY
EXEMPT				

Provide a table for each structure.					
PLUMBING INFORMATION					
WATER SYSTEM					
Service Line Size	1-inch				
Distribution Design Criteria (SCPC Table 604.3)	Wash Stalls				
Maximum Flow Rate (SCPC Table 604.4)	1.6 GPM				
Dealtflow	Location	In building			
Backnow	Туре	Reduced pressure			
Test Pressure					
SANITARY SEWER SYSTEM	•				
Service Line Size	4" Inches (Existing)				
Drainage Design Criteria (SCPC Tables 709.1 and 709.2)		10 DFU			
Maximum Flow Rate		5 GPH			
Slope (SCPC Table 704.1)	1/8	Inches/Ft			

Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION							
GENERAL INFORMATION							
Building Location	GREER, SC	;					
Climate Zone	3A						
	Summer	deg F DB					
Outdoor Design Temperature	Summer	deg F WB					
Outdoor Design Temperature	Winter	deg F DB					
	w milei	deg F WB					
	Summer	deg F DB					
Indoor Design Temperature	Summer	% RH					
indoor Design Temperature	Winter	deg F DB					
	w miter	% RH					
OUTSIDE AIR							
Occupied Minimum Outside Air							
CO2 Demand Management		YES 🛛 NO					
Supervised Control System		YES 🛛 NO					
MECHANICAL SYSTEMS, SERVIO	CE SYSTEMS	S & EQUIPMENT					
Briefly describe mechanical system:							
Water source heat pumps and package air cooled heat pumps							

the	Draw	vings or o	on Sheet w	ith othe	r code inform	ation. Li	st floor			1	
R	МАТ	TION, A	REA								
		Aro	ea 2	A	Area 3 -	Aı	- -	A	rea 5 -		
SF			PSF		PSF		PSF		PSF		
SF SF			PSF PSF		PSF PSF		PSF PSF		PSF		
SF			PSF		PSF		PSF		PSF		
ſ		STRU	CTURAI	DES	IGN INFOI	RMATI	ON. BI	UILDING			
-			Analysis 1	Procedu	re (ASCE 7 or	r SCBC 1	1609.6)		J		
	WIN	ND	Basic Wii (3 sec gus	nd Speed st IBC I	d, MPH F ig. 1609.3)			100	= V		
	LOA	ADS	Exposure Wind Imp	Categoi	ry Factor (ASCI	E 7 Table	e 1.5-2)	в 1.00	$= I_W$		
			Internal P External I	ressure Pressure	Coefficient (A Coefficient (A	ASCE 7) ASCE 7)		± 0.18	$3 = GC_{PI}$ $0.9 = GC_{P}$		
			Seismic In Site Class	nportan	ce Factor (AS 2 1613.3.2)	CE 7)		1.00 D	= I	•	
			Mapped S	Spectral	Response Acc	celerations	5	0.294	= S _s		
			Design Sp Parameter	oectral R	Response Acce	eleration		0.294	= S ₁ = S _{DS}		
			Seismic U	Jse Grou	up (ASCE 7 a	nd Seism	ic	0.150 I	$= S_{D1}$		
	SEIS	SMIC	Seismic E (SCBC T	esign C ables 10	ategory IBC) ategory 613.3.5(1) & 1	1613.3.5(2))	с			
	LOA	ADS	Basic Seis	smic For	rce Resisting S	System		CALCS PRE-	S PER		
			Design Ba Seismic R	ase Shea Lesponse	ur e Coefficient(s) ASCE '	7	META BUILD	L ING		
			Response Analysis	Modifio Procedu	cation Factor(s	s) ASCE	7				
L								1		I	
cia ts a on .	l Insp of Sect Sheet	ections. tion 1704 with othe	The Speci and/or Se er code infe	al Inspe ction 17 ormatio	ection require 705 must be a n. List floor o	ements sh pproved l design lo	all be ba by OSF. ads on st	sed on Sec Per SCBC tructural p	ction 1704 Chapter lans.		
L	INSI	PECTIO	DNS								
		SPECI REF	FICATIC ERENCE	DN E		INSF	PECTIO	N BY			
Γ	S	UMMA	RY OF I	FIXTI	IRES (SCP)	C Sectio	on 403 4	& Table	403.1		
_]	Male - Requ	uired		N	/A		
	XX 7 4	CI]	Male WC Male Urinal	Provide	d ded	N.	/A /A		
	Wat	er Close	ets	1	Female - Re Female - Pro	equired		N	/A /A		
]	Male - Requ Male - Prov	ired		N	/A /A		
	Lava	atories]	Female - Re	equired		N	/A /A		ļu
	Shov	wers]	Male - Prov	ided		N/	Ά Ά		DAT
	Drin	iking Fo	untains]	Female - Pro Required	ovided		N/	Ά /Α		Ц Ц
_	Fam	ily or A	ssisted-]	Provided Required			N/	/A /A		ISSI
	Use	Toilet]	Provided Required			N/ N	Ά /Α		
_		(1:-4)]	Provided Required			N. N	/A /A		
	Othe	ers (list)]	Provided			N	/A		
			ELI	ECTR	ICAL INF(ORMAT	TION				
S	ERVI	ICE TRA	ANSFOR	MER	By Ut	ility		KVA	Primary		
E	LECT	FRICAL	SERVIC	CE INF	ORMATIO	strict N		Volta	ge/Phase		
S	ervico ervico	e Voltag e Entran	ge/Phase		208/120	V 3P					
C T	ondu otal C	ctors Si	ze ed Load		#3/0 4		5!	5	KVA		
E A A	stima vaila mper	ted Max ble Faul	t Current	emand in Syr	nmetrical		52 8	2 3,019	KVA		Ċ
Ir D	nterru vevice	pting Ca	apacity o	f Servi	ce Overcurr	ent	1	0,000			SC S
G (l E	roun NEC 2	ding Ele 250) GENCY	ctrode Sy	ystem (5 N	١	YES			H U H
<u></u> Е					X No	///	N/A	X7 14	KVA (DI		Ī
E	merg	ency Ge	enerator		Fuel				ge/Phase		0
E	xit/Eı	mergenc	y Lights	Backu	p Power			enerator	ttery		L R
F	ire Al	larm Sys	stem		□ Manua □ Auton	al natic		adressabl lass A lass B	e		
L	IGHT	[NING]	PROTEC	TION	PROVIDEI)	□ YES	S 🛛 NO			
Vo	rksho	eet* -	N/A								
ov	ation	s with n	nultiple o	ccupar	ncies)						
	I	Male			Fer	male		Drinking Fountain	Service Sink		
		UR	LAV	7	WC	LA	V				
											L S
											ABI
											ကို

12

	1	STRUCTU	URAL DES	SIGN IFOI	RMATIO	ON, AREA					
OCCUPANCY CATEGODV		Building	Code	Area 1 N/A		Area 2	A	Area 3	Area	n 4	Area 5
Floor Liv	ve Load, F ₁₁	Figure		150 PS	F	- PSF		PSF		PSF	PSF
ACH OCCUPANCY Roof Liv YPE Ground f	'e Load, R ₁₁ Snow Load, Pg	1608.2 ASCE	or 7	20 PS 10 PS	F F	PSF PSF		PSF PSF		PSF PSF	PSF
	AL USE AREA DATA CENTER,	ASCE	7	PS	F	PSF		PSF		PSF	PSF
ETC., ASCE 7)											
SOII	LS, SITE				SI	FRUCTUR	AL DES	IGN INFO	RMATIO	N, BU	JILDING
OILS INVESTIGATION REQUIRED?	(IBC 1803.2)	□ YE	ES 🛛 NO			Analys	sis Procedu	re (ASCE 7 o	r SCBC 160)9.6)	
DILS CLASSIFICATION					WIND	Basic (3 sec	Wind Speed gust IBC 1	d, MPH Fig. 1609.3)			100 = V
lasses Soil of Materials (UCS System) (SCBC 1803.5.1)				LOAD	PS Expos Wind	ure Catego Importance	ry Factor (ASC)	E 7 Table 1.	.5-2)	в 1.00 = I _W
lowable Footing Bearing Pressure	OAD (IBC 1803.2)	TBC	D psf			Interna	al Pressure	Coefficient (A	ASCE 7)		$\pm 0.18 = GC_{\rm F}$
COMPACTION			por			Seism	ic Importan	ice Factor (AS	CE 7)		1.00 = I
ıbgrade (ASTM D698, ASTM D1557) (AASHTO only fr paving & roads)		TBC) %			Site C	lass (SCBC	C 1613.3.2)			D $0.294 = S_s$
ase (ASTM D698, ASTM D1557) · (AASHTO only fr paving & roads)		TBE	⊃%			Mappo	ed Spectral	Response Aco	denotions		$0.294 = S_1$
ther (ASTM D698, ASTM D1557) (AASHTO only fr paving & roads)		ТВС	⊃%			Param	n Spectral F leters	Kesponse Acce	eleration		$0.307 = S_{DS}$ $0.150 = S_{D1}$
IINIMUM DESIGN SOIL LATERAL L	OAD (IBC 1804.6))	psf			Seism Occup	ic Use Grou pancy Cate	up (ASCE 7 a egory IBC)	nd Seismic		1
OOTINGS ndisturbed footings		□ YE	es 🛛 No		SEISM LOAD	IC S (SCBO	ic Design C C Tables 1	Category 613.3.5(1) &	1613.3.5(2))	С
Compacted Fill Material (SCBC 1804.6)		□ YE	S 🛛 NO			Basic Design	Seismic Fo n Base Shea	rce Resisting S ar	System		CALCS PER PRE- ENGINEERED
LEVATIONS		ТВС	D MSL			Seism	ic Response	e Coefficient(s	s) ASCE 7		METAL BUILDING
evation of lowest footing		TBE	D MSL			Respo Analys	nse Modifi sis Procedu	cation Factor(re	s) ASCE 7		
Section 1705 of the 2018 South Caroli and ASCE 7 – This information may MATERIAL	ina Building Code. be shown on initian TYPE OF INSI	Any deviatio I Structural St STATE PECTION	ons from the sheet of the du EMENT O	requirements rawings or or F SPECIA UENCY	s of Section n Sheet wit L INSPE	1704 and/or h other code CTIONS PECIFICAT REFEREN	· Section 1' informatio ГІОN ГСЕ	705 must be a on. List floor	pproved by design load INSPE	OSF. F s on str	Per SCBC Chapter ructural plans.
EXEMPT											
wide a table for each structure.					GUA		E EIV/PI			402.0	р. ТL.I. 402 1
PLUMBING	INFORMATIO	N						Male - Regi	uired	403 8	N/A
ATER SYSTEM							-	Male WC -	Provided		N/A
stribution Design Criteria	Wash	Stalls			Water	Closets		Male Urina Female - Re	l - Provide equired	d	N/A N/A
erc Table 604.5) Eximum Flow Rate CPC Table 604.4)	1.6 GF	M					-	Female - Pr Male - Requ	ovided iired		N/A N/A
kflow	Location	In bu	uilding	-	Lavato	ries		Male - Prov	ided		N/A
t Pressure	Туре	Reduced	a pressure				· ·	Female - Re	ovided		N/A N/A
vice Line Size	4" Inches	(Existing)			Showe	rs		Male - Prov Female - Pr	ided ovided		N/A N/A
inage Design Criteria		10 DFU		_	Drinkii	ng Fountain	IS	Required			N/A
(PC Tables 709.1 and 709.2)		5 GPH	t	-	Family		- 1-	Required			N/A
aximum Flow Rate ppe (SCPC Table 704.1)	1/8	Inches/Ft				or Assisted		Provided			N/A
aximum Flow Rate	1/8	Inches/Ft			Use To Service	or Assisted	- - -	Required			N/A N/A N/A
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE	1/8 3 90.1 compliance s	Inches/Ft			Use To Service	e Sink		Required Provided Required			N/A N/A N/A N/A
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL	1/8 Ξ 90.1 compliance s	Inches/Ft sheets.			Use To Service Others	e Sink (list)		Required Provided Required Provided			N/A N/A N/A N/A N/A
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION ilding Location	1/8 5 90.1 compliance s A INFORMATIC GREER, SC	Inches/Ft			Use To Service Others	e Sink (list)		Required Provided Required Provided	ORMATI		N/A N/A N/A N/A N/A
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION ilding Location mate Zone	1/8 E 90.1 compliance : / INFORMATIO GREER , SC 3A Summer	Inches/Ft	deg F DB		Others	e Sink (list)		Required Provided Provided ICAL INFO	ORMATI(N/A N/A N/A N/A N/A
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION ilding Location mate Zone tdoor Design Temperature	1/8 E 90.1 compliance : INFORMATIC GREER, SC 3A Summer	Inches/Ft	deg F DB deg F WB deg F DB		Service Others	E TRANSF	CLECTR	Required Provided Provided ICAL INFO	ORMATI(N/A N/A N/A N/A N/A KVA Primary Voltage/Phase
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION ilding Location mate Zone tdoor Design Temperature	1/8 E 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter	Inches/Ft	deg F DB deg F WB deg F DB deg F WB deg F DB		SERVICE SERVICE ELECTR Service V	E TRANSFO ICAL SER	CLECTR ORMER VICE INF	Required Provided Provided ICAL INF ICAL INF ICAL INF ICAL By Di CORMATIC 208/120	DRMATIO		N/A N/A N/A N/A N/A KVA Primary Voltage/Phase
aximum Flow Rate ope (SCPC Table 709.1 and 709.2) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION lding Location nate Zone cdoor Design Temperature oor Design Temperature	1/8 E 90.1 compliance : LINFORMATIO GREER, SC 3A Summer Winter Summer	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB deg F DB		SERVICI ELECTR Service V Service E Conducto	E TRANSFO ICAL SERV 70ltage/Phas	CLECTR ORMER VICE INF	Required Provided Required Provided ICAL INF ICA	DRMATIO		N/A N/A N/A N/A N/A N/A KVA Primary Voltage/Phase
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION Ilding Location mate Zone tdoor Design Temperature oor Design Temperature	1/8 E 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter Summer Winter	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB deg F DB deg F DB % RH		SERVICI ELECTR Service V Service E Conducto Total Con	E TRANSFO ICAL SERV 70ltage/Pha: Entrance ors Size nnected Loa d Maximim	CLECTR CLECTR ORMER VICE INF se	Required Provided Provided ICAL INF ICAL INF ICA	DRMATIC illity strict VN V 3P NG C	DN	N/A N/A N/A N/A N/A N/A KVA Primary Voltage/Phase
A constraint of the second sec	1/8 2 90.1 compliance : LINFORMATIO GREER , SC 3A Summer Winter Winter Winter	Inches/Ft	deg F DB deg F WB deg F DB deg F DB deg F DB deg F DB % RH deg F DB % RH		SERVICI SERVICI ELECTR Service V Service E Conducto Total Con Estimated Available Amperes	e Sink (list) E TRANSFO ICAL SERV Toltage/Phase Entrance ors Size nnected Loa d Maximim E Fault Curr	CLECTR ORMER VICE INF se ad Demand ent in Syr	Required Provided Required Provided ICAL INF ICAL INF ICAL INF ICAL INF ICAL INF ICAL 30 ICAL 10 ICAL	DRMATIC illity strict VN V 3P NG C	ON 55 52 8,	N/A N/A N/A N/A N/A N/A Voltage/Phase
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION ilding Location mate Zone tdoor Design Temperature loor Design Temperature VTSIDE AIR cupied Minimum Outside Air 2 Demand Management pervised Control System	1/8 E 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter Summer Winter Winter Question Y	Inches/Ft	deg F DB deg F DB deg F DB deg F DB deg F DB deg F DB % RH deg F DB		Service Service SERVICI ELECTR Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device	e Sink (list) E TRANSF(E TRANSF(ICAL SERV 70ltage/Pha: Entrance ors Size nnected Loa d Maximim E Fault Curry ing Capacity	CLECTR ORMER VICE INF se ad Demand ent in Syr	Required Provided Required Provided ICAL INF ICAL INF ICAL INF ICAL INF ICAL INF ICAL 300 ICA	DRMATIC illity strict VN V 3P NG C	DN 55 52 8, 10	N/A N/A N/A N/A N/A N/A KVA Primary Voltage/Phase
Iaximum Flow Rate Iope (SCPC Table 704.1) Imary of data from approved ASHRAE MECHANICAL ENERAL INFORMATION ilding Location mate Zone tdoor Design Temperature loor Design Temperature //TSIDE AIR cupied Minimum Outside Air >2 Demand Management pervised Control System 3CHANICAL SYSTEMS, SERVI	1/8 E 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter Summer Winter Question Y CE SYSTEMS &	Inches/Ft	deg F DB deg F DB deg F DB deg F DB deg F DB deg F DB % RH deg F DB		Service Others SERVICI ELECTR Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250	e Sink (list) E TRANSFO E TRANSFO ICAL SERV /oltage/Phat Entrance ors Size nnected Loa d Maximim E Fault Curre ing Capacity ing Electrode 0)	CLECTR ORMER ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0	Required Provided Required Provided ICAL INFO	DRMATIC illity strict N V 3P NG C rent s	DN 55 52 8, 10 Y	N/A N/A N/A N/A N/A N/A KVA Primary Voltage/Phase
aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION ilding Location mate Zone tdoor Design Temperature oor Design Temperature TSIDE AIR zupied Minimum Outside Air 2 Demand Management pervised Control System CHANICAL SYSTEMS, SERVI efly describe mechanical system: Nater source heat pumps and pa	1/8 2 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter Summer Winter Question Summer Question Summer Question Summer Question Quest	Inches/Ft	deg F DB deg F DB deg F DB deg F DB deg F DB deg F DB % RH deg F DB % RH		Service Others SERVICI ELECTR Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGI	e Sink (list) E TRANSFO E TRANSFO ICAL SERV 70ltage/Phat Entrance ors Size nnected Loa d Maximim Fault Curre ing Capacity ag Electrode 0) ENCY SER	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF	Required Provided Required Provided ICAL INF ICA	DRMATIC illity strict N V 3P NG C rent s DN	DN 55 52 8, 10 Y	N/A N/A N/A N/A N/A N/A KVA Primary Voltage/Phase KVA 2 KVA 2 KVA 2 KVA 2 KVA
Aximum Flow Rate Aximum	1/8 2 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter Summer Winter QREER, SC 3A Summer QUINT QUINT Summer QUINT	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB % RH deg F DB % RH deg F DB		Service Others SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGH	e Sink (list) E TRANSFO ICAL SERV 70ltage/Phas Entrance ors Size nnected Loa d Maximim E Fault Curry ing Capacity ing Capacity ENCY SER cy Generato	CLECTR CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF	Required Provided Required Provided ICAL INFO ICAL INFO IX By Ut D By Di FORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Components FORMATIC IX No I Yes Fuel	DRMATIC illity strict N V 3P NG C rent s DN	DN 55 52 8, 10 Y N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Aximum Flow Rate aximum Flow Rate pe (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION Iding Location nate Zone door Design Temperature cdoor Design Temperature Door Design Temperature TSIDE AIR supied Minimum Outside Air 2 Demand Management vervised Control System CHANICAL SYSTEMS, SERVIE efly describe mechanical system: Vater source heat pumps and pa	1/8 2 90.1 compliance : INFORMATIO GREER, SC 3A Summer Winter Summer Winter QREER, SC 3A Summer QUINTER QUINTER <td< td=""><td>Inches/Ft</td><td>deg F DB deg F WB deg F WB deg F DB deg F DB % RH deg F DB % RH</td><td></td><td>Service Others SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme</td><td>e Sink (list) E TRANSFO ICAL SERV 70Itage/Phas Entrance ors Size nnected Loa d Maximim E Fault Curr ing Capacity ing Electrode D) ENCY SER cy Generato</td><td>CLECTR CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF se ad Demand</td><td>Required Provided Required Provided ICAL INFO ICAL INFO IX By Ut D By Di CORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Components FORMATIC IX No IX No I Yes Fuel p Power</td><td>DRMATIC illity strict N V 3P NG C rent s DN</td><td>DN 55 52 8, 10 Y N/A N/A X International (1)</td><td>N/A N/A N/A N/A N/A N/A N/A N/A N/A Solution N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td></td<>	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB % RH deg F DB % RH		Service Others SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme	e Sink (list) E TRANSFO ICAL SERV 70Itage/Phas Entrance ors Size nnected Loa d Maximim E Fault Curr ing Capacity ing Electrode D) ENCY SER cy Generato	CLECTR CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF se ad Demand	Required Provided Required Provided ICAL INFO ICAL INFO IX By Ut D By Di CORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Components FORMATIC IX No IX No I Yes Fuel p Power	DRMATIC illity strict N V 3P NG C rent s DN	DN 55 52 8, 10 Y N/A N/A X International (1)	N/A N/A N/A N/A N/A N/A N/A N/A N/A Solution N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
Aximum Flow Rate aximum Flow Rate pe (SCPC Table 704.1) mary of data from approved ASHRAE MECHANICAL NERAL INFORMATION Iding Location nate Zone door Design Temperature coor Design Temperature Door Design Temperature TSIDE AIR supied Minimum Outside Air 2 Demand Management ervised Control System CHANICAL SYSTEMS, SERVIE efly describe mechanical system: Vater source heat pumps and pa	1/8 E 90.1 compliance : JINFORMATIO GREER, SC 3A Summer Winter Summer Winter Winter CE SYSTEMS & ackage air coole	Inches/Ft	deg F DB deg F DB deg F WB deg F DB deg F DB % RH deg F DB % RH		Service Others SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme	e Sink (list) E TRANSFO ICAL SERV 70Itage/Phas Entrance ors Size nnected Loa d Maximim E Fault Curr ing Capacity ing Capacity ing Electrode D) ENCY SER cy Generato rgency Ligh	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF se	Required Provided Required Provided ICAL INFO ICAL INFO IX By Ut D By Di CORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Components FORMATIC IX No IX No I Yes Fuel p Power Manu	DRMATIC illity strict N V 3P NG C rent s DN (1 1 1 1 1 1 1 1 1 1 1 1 1	DN 55 52 8, 10 Y N/A N/A N/A X Inte Ge Ad	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
PC Tables 709.1 and 709.2) ximum Flow Rate pe (SCPC Table 704.1) hary of data from approved ASHRAE MECHANICAL IERAL INFORMATION ding Location late Zone loor Design Temperature or Design Temperature 'SIDE AIR ipied Minimum Outside Air Demand Management rvised Control System 'HANICAL SYSTEMS, SERVIF fly describe mechanical system: 'ater source heat pumps and part	1/8 E 90.1 compliance INFORMATIC GREER, SC 3A Summer Winter Winter Winter QREER, SC 3A Summer QUITER QUITER QUITER Summer QUITER	Inches/Ft	deg F DB deg F DB deg F DB deg F DB deg F DB % RH deg F DB % RH		Service Others SERVICH ELECTR Service V Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme Fire Alar	e Sink (list) E TRANSFO ICAL SERV 70Itage/Phase ICAL SERV 70Itage/Phase 10ICAL SERV 70Itage/Phase 70Itage/P	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF se ad Demand	Required Provided Required Provided ICAL INFO ICAL INFO IX By Ut By Di CORMATIC 208/120 #3/0 AV #3/0 AV #3/0 AV FORMATIC Component: FORMATIC IX No IX No IYes Fuel Power Power PROVINCE	DRMATIC	DN 55 52 8, 10 Y N/A N/A X Intt Ge Ad Cla Cla	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
PC Tables 709.1 and 709.2) imum Flow Rate MECHANICAL ERAL INFORMATION ling Location inte Zone oor Design Temperature or Design Temperature SIDE AIR pied Minimum Outside Air Demand Management rvised Control System HANICAL SYSTEMS, SERVI ly describe mechanical system: ater source heat pumps and particular system:	1/8 E 90.1 compliance INFORMATIC GREER, SC 3A Summer Winter Winter Winter QUITER Summer QUITER Summer QUITER Summer QUITER	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB % RH deg F DB % RH		Service Others SERVICH ELECTR Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme Fire Alarn	e Sink (list) E Sink (list) E TRANSFO ICAL SERV 70Itage/Phase ICAL SERV 70Itage/Phase 1000 1000 1000 1000 1000 1000 1000 10	CLECTR CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INI or nts Backu	Required Provided Required Provided ICAL INFO IZ By Ut D By Di CORMATIC 208/120 #3/0 AV #3/0 AV #3/0 AV TORMATIC Components FORMATIC IX No IX No IYes Fuel Prover INO IX No IX N	DRMATIC illity strict N V 3P NG C rent s DN (1 1 1 1 1 1 1 1 1 1 1 1 1	DN 55 52 8, 10 Y N/A N/A N/A X Int Ge Ad Cla Cla Cla S YES	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
IPC Tables 709.1 and 709.2) ximum Flow Rate pe (SCPC Table 704.1) aary of data from approved ASHRAE MECHANICAL JERAL INFORMATION ding Location aate Zone loor Design Temperature or Design Temperature SIDE AIR upied Minimum Outside Air Demand Management zrvised Control System ZHANICAL SYSTEMS, SERVI fly describe mechanical system: /ater source heat pumps and pa	1/8 E 90.1 compliance INFORMATIO GREER, SC 3A Summer Winter Summer Winter Winter CE SYSTEMS & ackage air coole Occup	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB % RH deg F DB % RH	re Count W	Service Others SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme Fire Alarr LIGHTN	e Sink (list) E Sink (list) E TRANSF(ICAL SERV 70ltage/Phat Entrance ors Size nnected Loa d Maximim E Fault Curry ing Capacity ing Capacity ing Capacity ing Electrode D) ENCY SER cy Generato rgency Ligh m System ING PROT	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF se ad Demand ent in Syr vice INF	Required Provided Required Provided ICAL INFO IZ By Ut D By Di CORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Componenta FORMATIC X No Y Yes Fuel p Power W Autor PROVIDEI	DRMATIC illity strict N V 3P NG C interferent rent s DN interferent inte	DN 55 52 8, 10 Y N/A N/A N/A X Intr Ge Ad Cla Cla Cla YES	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
CPC Tables 709.1 and 709.2) aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAL MECHANICAL NERAL INFORMATION Iding Location nate Zone door Design Temperature poor Design Temperature Dor Design Temperature Dor Design Temperature CHANICAL SYSTEMS, SERVI CHANICAL SYSTEMS, SERVI Yater source heat pumps and part (Provid	1/8 E 90.1 compliance INFORMATIO GREER, SC 3A Summer Winter Summer Winter Winter CE SYSTEMS & ackage air coole Occup e this table for n	Inches/Ft	deg F DB deg F WB deg F WB deg F DB deg F DB % RH deg F DB % RH	re Count W	Service Others SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Available Amperes Interrupti Device Groundin (NEC 250 EMERGH Emergend Exit/Eme Fire Alarn LIGHTN	ilet Sink (list) E Sink (list) F E TRANSFO ICAL SERV /oltage/Phase ICAL SERV /oltage/Phase /oltage/ICAL SERV /oltage/Phase /oltage/ICAL SERV /oltage/ICAL SERV	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF se cor ints Backu	Required Provided Required Provided ICAL INFO IX By Ut By Di CORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Component: FORMATIC Component: FORMATIC Manu PROVIDEI PROVIDEI	DRMATIC illity strict N V 3P NG C innatic al natic D illity i	DN 55 52 8, 10 Y N/A N/A N/A X Intr Ge Ad Cla Cla YES	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
CPC Tables 709.1 and 709.2) aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAI MECHANICAL NERAL INFORMATION ilding Location mate Zone tdoor Design Temperature oor Design Temperature TSIDE AIR zupied Minimum Outside Air 2 Demand Management vervised Control System CHANICAL SYSTEMS, SERVI efly describe mechanical system: Water source heat pumps and pa	1/8 E 90.1 compliance INFORMATIC GREER, SC 3A Summer Winter Summer Winter Winter CE SYSTEMS & ackage air coole Occup e this table for n Area	Inches/Ft	deg F DB deg F WB deg F WB deg F DB % RH deg F DB % RH deg F DB % RH	re Count W	SERVICI ELECTR SERVICI ELECTR SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGI Emergend Exit/Eme Fire Alarn LIGHTN Vorksheet	ilet Sink (list) E Sink (list) F E TRANSFO ICAL SERV 70Itage/Phase ICAL SERV 70Itage/Phase 100 100 100 100 100 100 100 10	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF or nts Backu	Required Provided Required Provided ICAL INFO IX By Ut By Di CORMATIC 208/120 #3/0 AV mmetrical ce Overcurr Component: FORMATIC IX NO I Yes Fuel PROVIDEI PROVIDEI	DRMATIC iility strict N V 3P NG C iility rent iility rent iility iility iility N V 3P NG C iility iility iility iility strict iility iility iility N V 3P N iility iility iility iility N iility iility <tr< td=""><td>DN 55 52 8, 10 Y N/A N/A N/A X Intr Ge Ad Cla YES</td><td>N/A N/A KVA 019 0,000 'ES KVA Voltage/Phase ass A ass A</td></tr<>	DN 55 52 8, 10 Y N/A N/A N/A X Intr Ge Ad Cla YES	N/A KVA 019 0,000 'ES KVA Voltage/Phase ass A
CPC Tables 709.1 and 709.2) aximum Flow Rate ppe (SCPC Table 704.1) mary of data from approved ASHRAI MECHANICAL NERAL INFORMATION Iding Location nate Zone door Design Temperature poor Design Temperature TSIDE AIR upied Minimum Outside Air 2 Demand Management ervised Control System CHANICAL SYSTEMS, SERVI efly describe mechanical system: Vater source heat pumps and part (Provid Classification/Description	1/8 E 90.1 compliance INFORMATIO GREER, SC 3A Summer Winter Winter Winter Winter CE SYSTEMS & ackage air coole Occup e this table for n Area	Inches/Ft	deg F DB deg F WB deg F WB deg F DB % RH deg F DB % RH deg F DB % RH	re Count WC	SERVICI ELECTR SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGI Emergend Exit/Eme Fire Alarn LIGHTN Vations V Ma UF	ilet ilet	CLECTR ORMER ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF or nts Backu	Required Provided Required Provided ICAL INFO IZ By Ut IZ NO IZ	DRMATIC iility strict N V 3P NG C iility rent iility rent iility iility iility N V 3P NG C iility iility iility iility strict iility iility iility N V 3P N iility iility <td>DN 55 52 8, 10 Y N/A N/A N/A X Int Ge Ad Cla Cla Cla Cla Cla</td> <td>N/A N/A KVA ,019 J,0000 'ES KVA Voltage/Phase ass A ass A</td>	DN 55 52 8, 10 Y N/A N/A N/A X Int Ge Ad Cla Cla Cla Cla Cla	N/A KVA ,019 J,0000 'ES KVA Voltage/Phase ass A
PC Tables 709.1 and 709.2) ximum Flow Rate pe (SCPC Table 704.1) nary of data from approved ASHRAI MECHANICAL NERAL INFORMATION Iding Location nate Zone door Design Temperature pe Or Design Temperature Dor Design Temperature FSIDE AIR upied Minimum Outside Air 2 Demand Management ervised Control System CHANICAL SYSTEMS, SERVI fly describe mechanical system: Vater source heat pumps and particular system (Provid) Classification/Description	1/8 E 90.1 compliance INFORMATIC GREER, SC 3A Summer Winter Winter Winter Winter CE SYSTEMS & ackage air coole Occup e this table for m Area	Inches/Ft	deg F DB deg F WB deg F WB deg F DB % RH deg F DB % RH deg F DB % RH deg F DB % RH	e Count W dition/renc	SERVICI ELECTR SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGI Emergend Exit/Eme Fire Alarn LIGHTN 'orksheet ovations v Ma	ilet ilet ilet ilet ilet ilet ilet ilet	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF or nts Backu	Required Provided Required Provided ICAL INFO IZ By Ut IZ NO	DRMATION iiiity strict N V 3P NG C iiiity rent iiiity rent iiiity iiiity iiiity N V 3P NG C iiiity iiiity iiiity N V 3P NG C iiiity iiiity iiiity iiiity N V 3P Iiiity iiity iiity iiity iiity iity	DN 55 52 8, 10 Y N/A N/A N/A X Intt Ge Ad Cla Cla Cla VES	N/A
CPC Tables 709.1 and 709.2) aximum Flow Rate ope (SCPC Table 704.1) mary of data from approved ASHRAI MECHANICAL NERAL INFORMATION Iding Location nate Zone door Design Temperature cor Design Temperature Door Design Temperature TSIDE AIR :upied Minimum Outside Air 2 Demand Management ervised Control System CHANICAL SYSTEMS, SERVI efly describe mechanical system: Vater source heat pumps and particular provide (Provid) Classification/Description	1/8 E 90.1 compliance INFORMATIO GREER, SC 3A Summer Winter Summer Winter Winter CE SYSTEMS & ackage air coole Occup e this table for n Area	Inches/Ft	deg F DB deg F WB deg F WB deg F DB % RH deg F DB % RH deg F DB % RH deg F DB % RH	re Count WC	SERVICI ELECTR SERVICI ELECTR SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGI Emergend Exit/Eme Fire Alarn LIGHTN Orksheet ovations v Ma UF	ilet Sink (list) E Sink (list) E TRANSFO ICAL SERV 70Itage/Phase ICAL SERV 70Itage/Phase 1000 1	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF or ats Backu	Required Provided Required Provided Provided ICAL INFO IX By Ut D By Di CORMATIC 208/120 #3/0 AV 7000000000000000000000000000000000000	DRMATION iiiity strict N V 3P NG C iiiity rent iiiity rent iiiity iiiity iiiity N V 3P NG C iiiity iiiity iiiity N V 3P N iiiity iiiity iiiity N iiiity iiiity iiiity iiiity iiiity iiiity iiiity iiiity iiiity iiity iiity iiity iiity iiity iity <	DN 55 52 8, 10 Y N/A N/A X Intt Ge Cla Cla Cla Cla Cla Cla Cla Cla	N/A KVA 019 0,000 'ES KVA Voltage/Phase ass A assid Matere </td
Pre (SCPC Table 704.1) hary of data from approved ASHRAI MECHANICAL JERAL INFORMATION ding Location hate Zone door Design Temperature for Design Temperature SIDE AIR apied Minimum Outside Air Demand Management rvised Control System CHANICAL SYSTEMS, SERVI fly describe mechanical system: /ater source heat pumps and paie (Provid Classification/Description	1/8 E 90.1 compliance INFORMATION GREER, SC 3A Summer Winter Summer Winter Winter CE SYSTEMS & ackage air coole Occup e this table for n Area	Inches/Ft	deg F DB deg F WB deg F WB deg F DB % RH deg F DB % RH deg F DB % RH deg F DB % RH	e Count WC	SERVICI ELECTR SERVICI ELECTR SERVICI ELECTR Service V Service V Service E Conducto Total Con Estimated Amperes Interrupti Device Groundin (NEC 250 EMERGI Emergend Exit/Eme Fire Alarn LIGHTN Vations V Ma UF	or Assisted oilet e Sink (list) (list) E TRANSFO ICAL SERV 70ltage/Phat ors Size nected Loa d Maximim e Fault Curre ing Capacity ing Capacity ing Capacity ing Electrode 0) ENCY SER ing Capacity ing System ING PROT is - N/A vith multipl le i I i I I I I I i I I I I I i I I I I I	CLECTR ORMER VICE INF se ad Demand ent in Syr y of Servi e System 0 VICE INF or ats Backu	Required Provided Required Provided ICAL INFO IX By Ut By Di CORMATIC 208/120 #3/0 AV 50RMATIC Components FORMATIC Components FORMATIC Autor PROVIDEI Manu Autor PROVIDEI Manu Components Fuel	DRMATION illity strict N V 3P MG C inatic on inatic inatic <tr< td=""><td>DN 55 52 8, 10 Y N/A N/A N/A X Int Ge Ad Cla Cla Cla Cla Cla Cla Cla Cla</td><td>N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A</td></tr<>	DN 55 52 8, 10 Y N/A N/A N/A X Int Ge Ad Cla Cla Cla Cla Cla Cla Cla Cla	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

(Provide	this table for n	ew constru	iction and a	ddition/renov	vations with n	nultiple occup	ancies)		
Classification/Description	Area	Area per Person	Area per Number of Person Occupants		Male		Fer	nale	Drinking Fountain
			-	WC	UR	LAV	WC	LAV	
	•	Total:							
		Total Fixtur	es Provided:						







1 LOCATION PLAN SCALE: 1" = 60'-0"

2

3

4

5

GENERAL NOTES

- A THIS DRAWING IS FOR REFERENCE ONLY AND LOCATES THE BUILDING RELATIVE TO THE EXISTING CAMPUS.
- B FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. GENERAL CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION
- IMMEDIATELY, PRIOR TO PERFORMING THE WORK. C GENERAL CONTRACTOR TO PROTECT ALL EXISTING WORK TO REMAIN
- THROUGHOUT CONSTRUCTION.
- D PATCH AND REPAIR ALL EXISTING FINISHES, AS REQUIRED, DUE TO DEMOLITION WORK.
- E REFERNCE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

LOCATION PLAN LEGEND



10









GENERAL NOTES - LIFE SAFETY A PER IBC TABLE 1017.2, (UTILITY OCC.) MAXIMUM EXIT ACCESS TRAVEL DISTANCE IS 300 FEET <u>WITHOUT</u> AN AUTOMATIC SPRINKLER SYSTEM. B PER IBC TABLE 1006.2.1, (UTILITY OCC.) THE COMMON PATH OF EGRESS TRAVEL DISTANCE SHALL NOT EXCEED 100 FEET. C PER IBC 1005.3.1 AND 1005.3.2, EGRESS WIDTH PER OCCUPANT IS 0.2 FOR EGRESS COMPONENTS WHEN NOT EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM. D 170 IS THE MAXIMUM OCCUPANT LOAD THROUGH A 36" WIDE DOOR WITH A 34" CLEAR WIDTH, WHEN <u>NOT</u> EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM. E A FIRE SPRINKLER SYSTEM IS <u>NOT</u> REQUIRED PER IBC 903. F SEE G2.00 FOR OSF F-3 FORMS (CODE TABLES)

OCCUPANCY LEGEND



AGRICULTURE (1:300 GROSS)

LIFE SAFETY PLAN LEGEND





	1	 2		3		4
К						
J						
_						
H						
G						
F						
E						
-						
_						
C						
24 I:54:43 PM I EMPLATE V						
4/19/20	1	2	Ι	3	1	4



1 LIFE SAFETY DURING CONSTUCTION PLAN SCALE: 1/16" = 1'-0"



I



GENERAL NOTES AND SPECIFICATIONS

A DIVISION 1 - GENERAL REQUIREMENTS

I.OI. ALLOWANCE #1: \$25,000 FOR A PRE-MANUFACTURED BUILING STRUCTURE: THE MANUFACTURER OF THE STRUCTURE USED IN THE DESIGN OF THIS PROJECT IS "CARPORT CENTRAL". IF OFFEROR'S WOULD LIKE TO SUBMIT A SUBSTITUTE MANUFACTURER'S STRUCTURE TO REPLACE THE ONE USED IN DESIGN, THEN IT MUST BE SUBMITTED AS A PROPOSED SUBSTITUTE AND APPROVED BY GREENVILLE COUNTY SCHOOLS PRIOR TO THE INQUIRY DEADLINE (10 DAYS PRIOR TO BID OPENING).

I.O2. COMPLETE CONTRACT DOCUMENTS: COMPLETE DRAWINGS, SPECIFICATIONS, ADDENDA, AND CLARIFICATIONS ISSUED BY FIELD ORDER OR SIMILAR INSTRUMENTS CONSTITUTE THE CONTRACT DOCUMENTS AND SHALL REMAIN INTACT. GENERAL CONTRACTOR IS FULLY RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS INCLUDED, OR REASONABLY INFERRED THEREIN. CONSTRUCTION MANAGER OR GENERAL CONTRACTOR (AS APPLICABLE) MUST NOT ISSUE PARTIAL SETS OR OTHERWISE CAUSE INCOMPLETE CONTRACT INFORMATION TO BE PROVIDED TO PARTIES TO THE CONTRACT, INCLUDING ASSOCIATED SUB-CONTRACTORS, OR SUB-SUB-CONTRACTORS.

I.03. MULTI-TRADE COORDINATION: ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. NO ALLOWANCES WILL BE MADE FOR CONTRACTOR'S FAILURE TO COORDINATE BETWEEN MULTIPLE DISCIPLINES, SYSTEMS OR EQUIPMENT. UNCOORDINATED WORK THAT RESULTS IN THE INEFFICIENT USE OF AVAILABLE SPACE AND/OR ENCROACHES ON THE WORK OF OTHER TRADES WILL BE SUBJECT TO REJECTION AND RE-INSTALLATION.

I.04. VERIFICATION: GENERAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, CONSTRUCTION, MATERIALS, METHODS OF CONSTRUCTION, GRADES AND ELEVATIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS WITHIN THE DOCUMENTS PRIOR TO BID. CONSTRUCTION. AND/OR INSTALLATION OF ASSOCIATED WORK. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE THAT THE EXISTING CONDITIONS ARE CONSISTENT WITH THOSE OF THE CONTRACT DOCUMENTS. ANY CHANGE ORDER REQUEST ASSOCIATED WITH AN IDENTIFIABLE EXISTING CONDITION, WHETHER IN CONFLICT OR COMPLIANCE WITH THE CONTRACT DOCUMENTS, WILL NOT BE ACCEPTED. THIS PROVISION SHALL NOT APPLY TO WORK PERFORMED UNDER UNIT PRICE OR ALLOWANCE FEE STRUCTURES.

1.05. DISCREPANCIES: GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PROMPTLY UPON IDENTIFICATION OF ANY DISCREPANCIES OR CONFLICTS IN THE CONTRACT DOCUMENTS, WITH THE OBJECTIVE OF RESOLVING THE CONFLICT OR DISCREPANCY IN A TIMELY MANNER AND PRIOR TO ANY IMPACT TO CONTRACT TIME OR CONTRACT COST. GENERAL CONTRACTOR SHALL INCLUDE THE MORE EXPENSIVE, COMPLEX, AND TIME CONSUMING COMPONENTS OF ANY DISCREPANCIES IN THE BASE BID PRICE. FAILURE TO NOTIFY THE ARCHITECT PROMPTLY OF A KNOWN DISCREPANCY CONSTITUTES ACCEPTANCE OF FULL RESPONSIBILITY FOR THE ASSOCIATED COST AND SCHEDULE IMPACT.

I.OG. DRAWING SCALE: REPROGRAPHIC TECHNIQUES MAY RENDER DRAWINGS DIFFERENTLY THAN THE INTENDED PRINTED SCALE. THEREFORE, DO NOT RELY UPON THE SCALE OF ANY PRINTED DRAWINGS. CONTACT THE ARCHITECT FOR REQUIRED DIMENSIONS THAT ARE NOT PROVIDED CLEARLY IN NUMERIC FORM HEREIN. FAILURE TO REQUEST CRITICAL DIMENSIONAL INFORMATION FROM THE ARCHITECT MAY RESULT IN THE REJECTION OF INSTALLED WORK.

I.07. DIMENSIONAL STANDARDS: STANDARD DIMENSION CONVENTIONS UTILIZED HEREIN CALL FOR DIMENSIONS TO FACE OF STUD (MASONRY) OF FINISHED PARTITION, FACE OF FINISH, OR CENTERLINE OF COLUMN LINE OR OTHER REFERENCE LINE, UNLESS OTHERWISE NOTED OR GRAPHICALLY ILLUSTRATED. DIMENSIONS NOTED AS "CLEAR", "MIN", OR "MAX" SHALL BE STRICTLY ENFORCED.

1.08. **PERMITTING:** THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY AND REQUIRED PERMITS AND APPROVALS FROM JURISDICTIONAL AUTHORITIES, PRIOR TO COMMENCING THE WORK. THIS REQUIREMENT SHALL APPLY TO ON-SITE AND OFF-SITE WORK REQUIRED BY THE CONTRACT DOCUMENTS.

1.09. CODE COMPLIANCE: THE WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE LAWS. CODES, AND ORDINANCE. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL PERFORM THEIR WORK IN FOLLOWING SUBSTRATES: WOOD. MANUFACTURER'S BY ONE OF THE FOLLOWING: COMPLIANCE WITH ALL APPLICABLE BUILDING CODES, LAWS, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHERWIN WILLIAMS, BENJAMINE MOORE & CO. . PPG ARCHITECTURAL FINISHES, INC., OR EQUAL. AND ALL SUB-CONTRACTORS SHALL CAREFULLY READ AND FAMILIARIZE THEMSELVES WITH THE CODE COMPLIANCE DATA INCLUDED IN THE DRAWINGS AND SPECIFICATIONS. ALL INTERIOR CMU SURFACES SHALL BE PAINTED. ALL CONCRETE FLOORS SHALL BE SEALED.

I.IO. LIFE-SAFETY MEASURES DURING CONSTRUCTION: THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS REQUIRED BY OSHA, CODE, AND OTHER APPLICABLE REGULATORY AUTHORITIES.

I.II. MEANS OF EGRESS: THE GENERAL CONTRACTOR SHALL MAINTAIN CLEAR AND UNOBSTRUCTED MEANS OF EGRESS AT ALL TIMES DURING CONSTRUCTION, WITHOUT EXCEPTION.

I.I2. CONSTRUCTION LOADS: THE GENERAL CONTRACTOR SHALL NEVER LOAD NEW OR EXISTING CONSTRUCTION BEYOND ITS DESIGN CAPACITY WITH STORED MATERIAL, CONSTRUCTION EQUIPMENT, TEMPORARY LOADS ASSOCIATED WITH MATERIAL MOVEMENT, HOISTING, STORAGE, OR SIMILAR CONDITIONS.

I.I3. GENERAL CLEAN-UP: THE GENERAL CONTRACTOR SHALL INCLUDE ONGOING CLEAN-UP OF THE PROPERTY AND BUILDING, INCLUDING REMOVAL OF TRASH AND WASTE MATERIALS, ON A REGULAR BASIS DURING CONSTRUCTION. RECYCLING OF CONSTRUCTION WASTE IS ENCOURAGED.

I.14. PROTECTION: EXISTING SITE AMENITIES AND BUILDINGS TO REMAIN AFTER CONSTRUCTION SHALL BE PROTECTED DURING CONSTRUCTION ACTIVITIES. PROTECTION SHALL ENCOMPASS CONSTRUCTION OF TEMPORARY BARRIERS AND PHYSICAL PROTECTION OF WORK TO REMAIN THAT IS SUBJECT TO DAMAGE FROM CONSTRUCTION ACTIVITIES. THE GENERAL CONTRACTOR SHALL REPAIR OR REPLACE EXISTING WORK SCHEDULED TO REMAIN, THAT IS DAMAGED DURING CONSTRUCTION DUE TO INSUFFICIENT PROTECTION.

I.I5. SERVICE INTERRUPTION: ANY SERVICE INTERRUPTION MUST BE SCHEDULED IN ADVANCE WITH THE OWNER'S AUTHORIZED REPRESENTATIVE. WHETHER SUCH INTERRUPTION IS FOR ADDITION, MODIFICATION, OR TESTING OF ANY EXISTING SERVICE, THE CONTRACTOR SHALL TAKE EVERY PRECAUTION TO MINIMIZE INTERRUPTION TO THE EXISTING FACILITY.

I.IG. SUBMITTAL PROCEDURES: FOR ALL PRODUCTS LISTED IN THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR MUST PROVIDE A COMPREHENSIVE SUBMITTAL, INCLUDING BUT NOT LIMITED TO PRODCUT DATA, WARRANTY INFORMATION, SHOPE DRAWINGS, SAMPLES, ETC.

1.17. **EXECUTION:** THE GENERAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACT DOCUMENTS, AND STANDARD MANUFACTURER INSTALLATION REQUIREMENTS FOR ALL BUILDING ELEMENTS AND SYSTEMSM, UNLESS NOTED OTHERWISE.

I.I.8. FINAL CLEANING: GENERAL CONTRACTOR IS REQUIRED TO CLEAN ALL AREAS AND SURFACES AFFECTED BY THE WORK, BOTH NEW AND EXISTING.

I.19. CLOSEOUT DOCUMENTS: PRIOR TO COMPLETION OF THE PROJECT, THE GENERAL CONTRACTOR MUST PROVIDE COMPREHENSIVE CLOSEOUT DOCUMENTS PER THE OWNER'S STANDARD REQUIREMENTSL INCLUDING BUT NOT LIMITED TO AS-BUILT DRAWINGS. OFM MANUALS. WARRANTY INFORMATION. AND ANY OTHER INFORMATION REQUIRED BY THE OWNER.

WITH THE INTERNATIONAL BUILDING CODE.

SHALL BE PRESSURE TREATED [PT].

FIXED CONSTRUCTION WITH LATEX SEALANT.

CONTRACTOR

DIVISION 8 - OPENINGS

SHERWIN WILLIAMS H&C WET LOOK SEALER.

10.02. FIRE EXTINGUISHER: PROVIDE FIRE EXTINGUISHERS WHERE INDICATED ON THE DRAWINGS



SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE.

WARRANTY/DISCLAIMER:

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

AGENCY AND UTILITY CONTACTS

LOCAL ZONING OFFICE GREENVILLE COUNTY ZONING ADMINISTRATION 301 UNIVERSITY RIDGE GREENVILLE, SC 29601 PH: (864) 467-7425

WATER & SEWER SPARTANBURG WATER 175 NORTH LIBERTY STREET SPARTANBURG, SC 29304 PH: 864-580-5681

FIRE DEPARTMENT LAKE CUNNINGHAM FD 3970 PENNINGTON ROAD GREER, SC 29651 PH: (864) 895-4630 ELECTRIC DUKE ENERGY 915 BEAUMONT AVE SPARTANBURG, SC 29303 PH: 1-800-777-9898

<u>SCDOT</u> DISTRICT 3 252 S. PLEASANTBURG DR GREENVILLE, SC 29607 PH: (864) 241-1010

> GRATE INLÉT RIM: 1092,23'

> > 6

- 1 -





ļ

10



14

13

NOTES

- 1. ALL TOPOGRAPHY TO BE VERIFIED PRIOR TO CONSTRUCTION
- 2. THIS PROPERTY DOES NOT LIE IN A 100-YEAR FLOODPLAIN OR IN AN IDENTIFIED "FLOOD PRONE AREA", AS DEFINED PURSUANT TO THE FLOOD DISASTER PROTECTION ACT OF 1973, AS AMENDED, AS REFLECTED BY FLOOD INSURANCE RATE MAP PANEL45045C0241D, DATED <u>12/2/2004.</u>







16

SEQUENCE OF CONSTRUCTION - PHASE 1:

- RECEIVE NOTICE OF NPDES COVERAGE FROM SCDHEC.
- ENGINEER TO SCHEDULE ON-SITE PRE-CONSTRUCTION MEETING WITH SCDHEC A MINIMUM OF 72 HOURS PRIOR TO THE START OF LAND DISTURBING ACTIVITIES.
- LOCATE LIMITS-OF-DISTURBANCE (LOD) AND MARK IN FIELD.
- CLEAR AND GRUB FOR PERIMETER CONTROLS INSTALL SILT FENCE, SECURITY FENCE AND INLET PROTECTION FOR EXISTING STORM DRAIN.
- INSTALL CONCRETE WASHOUT AND MARK LOCATION ON PLANS.
- BEGIN INSTALLATION OF UTILITIES AS GRADING OPERATIONS ALLOW.
- INSTALL INLET PROTECTION WHERE ILLUSTRATED.
- COMMENCE WITH PHASE 2

SECURITY FENCE

(SEE DETAIL ON SHEET C-201)

SILT FENCE

RIM: 998.06'

FILLED IN

MAINTAIN ALL SEDIMENT AND EROSION CONTROL FEATURES THROUGHOUT THE LIFE OF THE PROJECT INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES + INCHES OR MORE OF PRECIPITATION.



GENERAL DEMOLITION NOTES

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED, SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL
- REGULATIONS GOVERNING SUCH OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS
- NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IF CLEARANCES ARE LESS THAN SPECIFIED ON THE PLAN OR TWELVE INCHES (12"), WHICHEVER IS LESS, CONTACT THE DESIGN ENGINEER AND THE OWNER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- IF DEMOLITION OR CONSTRUCTION ON SITE WILL INTERFERE WITH THE ADJACENT PROPERTY OWNER'S TRAFFIC FLOW. THE CONTRACTOR SHALL COORDINATE WITH THE ADJACENT PROPERTY OWNER, TO MINIMIZE THE IMPACT ON TRAFFIC FLOW. TEMPORARY RE-ROUTING OF TRAFFIC IS TO BE ACCOMPLISHED BY USING DOT APPROVED TRAFFIC BARRICADES, BARRELS, AND/OR CONES. TEMPORARY SIGNAGE AND FLAGMEN MAY BE ALSO NECESSARY.
- CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL
- NOT EXCEED 24 HOURS. THE CONTRACTOR SHALL MAINTAIN ALL SANITARY SEWER SERVICES TO ANY "UPSTREAM" FACILITIES AT ALL TIMES. SANITARY SEWER SERVICES SHALL NOT BE INTERRUPTED AT ANY TIME DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDINGS PRIOR TO DEMOLITION OF THE BUILDINGS. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT
- TO BE INTERPRETED AS THE EXACT LOCATION. OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER
- BUILDING. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY OWNER/DEVELOPER CONSTRUCTION MANAGER.
- PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED AND THE SITE IS TO BE STABILIZED.
- THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE GOVERNING JURISDICTION FIRE AND LIFE SAFETY TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SITE THROUGH OUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATERMAIN SHUT-OFFS WITH THE GOVERNING JURISDICTION DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATERMAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.













SILT FENCE - FABRIC REQUIREMENTS Silt fence must be composed of woven geotextile filter fabric that - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability - Free of any treatment or coating which might adversely alter its physica - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and, — Have a minimum width of 36—inches Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.

- 12-inches of the fabric should be placed within excavated trench and toed
- Filter Fabric shall be purchased in continuous rolls and cut to the length of
- Filter Fabric shall be installed at a minimum of 24-inches above the ground.

SILT FENCE - INSPECTION & MAINTENANCE 1. The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal

- 2. Regular inspections of silt fence shall be conducted at a minimum of at least once every calendar week, with no time period between inspections exceeding 9 days, and must be conducted until final stabilization is reached on all areas o the construction site.
- Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when necessary. Remove accumulated sediment when it reaches 1/3 the height of the silt
- 5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated. Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence,
- 7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence
- Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently

South Carolina Department of Health and Environmental Contro SILT FENCE SC-03 PAGE 2 of 2 TANDARD DRAWING NO. GENERAL NOTES

- APPLY PERMANENT SEEDING ON AREAS LEFT DORMANT FOR 1 YEAR OR MORE.
- APPLY PERMANENT SEEDING WHEN NO FURTHER DISTURBANCES ARE PLANNED. TO DETERMINE OPTIMUM SEEDING SCHEDULE, CONSULT A LOCAL AGRONOMIST OR EROSION
- CONTROL SPECIALIST.
- APPLY PERMANENT SEEDING BEFORE SEASONAL RAINS OR FREEZING WEATHER IS ANTICIPATED.
- USE DORMANT SEEDING FOR LATE FALL OR WINTER SEEDING SCHEDULES.

SEED MIXES:

- USE SEEDS APPROPRIATE TO THE SEASON AND SITE CONDITIONS. CONSULT LOCAL AGRONOMIST OR EROSION CONTROL SPECIALISTS FOR SEED MIX.
- USE A SEED BLEND TO INCLUDE ANNUALS, PERENNIALS AND LEGUMES.
- RATES ACCORDINGLY.

TE PREPARATION

- BRING THE PLANTING AREA TO FINAL GRADE AND INSTALL THE NECESSARY EROSION CONTROL PRACTICES.
- DIVERT CONCENTRATED FLOWS AWAY FROM THE SEEDED AREA. HARROWING, TRACKING, GROOVING OR FURROWING.
- AMENDMENTS INTO THE SOIL.
- PREPARE A 3-5 INCH (76-127 MM) DEEP SEEDBED, WITH THE TOP 3-4 INCHES (76-102 MM) CONSISTING OF TOPSOIL
- THE SEEDBED SHOULD BE FIRM BUT NOT COMPACT. THE TOP THREE INCHES OF SOIL SHOULD BE LOOSE, MOIST AND FREE OF LARGE CLODS AND STONES. THE TOPSOIL SURFACE SHOULD BE IN REASONABLY CLOSE CONFORMITY TO THE LINES,
- GRADES AND CROSS SECTIONS SHOWN ON THE GRADING PLANS.

- SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION. SEED SHOULD BE APPLIED IMMEDIATELY AFTER SEEDBED PREPARATION WHILE THE SOIL IS LOOSE AND MOIST. IF THE SEEDBED HAS BEEN IDLE LONG ENOUGH FOR THE SOIL TO BECOMI
- OF THE SLOPE. SEED TO SOIL CONTACT IS THE KEY TO GOOD GERMINATION.
- ALWAYS APPLY SEED BEFORE APPLYING MULCH. SEEDERS, MECHANICAL DRILLS, OR HYDROSEEDER SO THE SEED IS APPLIED UNIFORMLY ON THE SITE.
- BROADCAST SEED SHOULD BE INCORPORATED INTO THE SOIL BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY COMPACTED TO PROVIDE GOOD SEED-SOIL CONTACT.
- APPLY FERTILIZER AS SPECIFIED. APPLY MULCH OR EROSION CONTROL BLANKET, AS SPECIFIED, OVER THE SEEDED AREAS.

NSPECTION AND MAINTENANCE

NEWLY SEEDED AREAS NEED TO BE INSPECTED FREQUENTLY TO ENSURE THE GRASS IS GROWING.

- IF THE SEEDED AREA IS DAMAGED DUE TO RUNOFF, ADDITIONAL STORMWATER MEASURES MAY BE NEEDED.
- SPOT SEEDING CAN BE DONE ON SMALL AREAS TO FILL IN BARE SPOTS WHERE GRASS DID NOT GROW PROPERLY

SEQUENCE OF CONSTRUCTION - PHASE 2:

- MAKE SURE ALL INSTALLED EROSION CONTROL MEASURES ARE IN CORRECT WORKING ORDER BEGIN MASS GRADING AND UTILITIES AS GRADES ALLOW.
- BEGIN FINE GRADING SITE AND PREPARE SITE FOR PAVEMENT AND PAVE SITE.
- COMPLETE REMAINING GRADING AND INSTALL PERMANENT SEEDING AND LANDSCAPING.
- REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ONCE SITE IS STABILIZED (80% STABILIZATION IS REQUIRED PRIOR TO PROJECT BEING CLOSED OUT).
- COMPLETE AND SUBMIT THE NOTICE OF TERMINATION.
- MAINTAIN ALL SEDIMENT AND EROSION CONTROL FEATURES THROUGHOUT THE LIFE OF THE
- PROJECT INSPECTIONS TO BE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES $\frac{1}{2}$ INCHES OR MORE OF PRECIPITATION.



EROSION CONTROL STANDARD NOTES

- IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY
- CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED. EXCEPT AS STATED BELOW. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS
- PRACTICABLE WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SIT
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BM HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES. AS MAY BE REQUIRED. TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- REMOVE DEPOSITED SEDIMENT FROM SEDIMENT TRAPS OR SEDIMENTATION WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR THE SEDIMENT HAS REACHED THE CLEAN OUT POINT ON THE CLEANOUT STAKE (WHICHEVER OCCURS FIRST).
- REMOVE DEPOSITED SEDIMENT COLLECTED BY SEDIMENT CONTROL MEASURE (SILT FENCE, CHECK DAMS, SEDIMENT TUBES, ETC.) WHEN THE DEPOSITED SEDIMENT REACHES 🔏 THE HEIGHT OF THE ABOVE-GROUND PORTION OF THESE BMP'S, OR BEFORE
- IT REACHES A LOWER HEIGHT ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING
- CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE
- PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.). A COPY OF THE SWPPP, INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO
- THE DATE THAT FINAL STABILIZATION IS REACHED. . INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- 12. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER
- TREATMENT PRIOR TO DISCHARGE; 14. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS
- (SEDIMENT BASIN, FILTER BAG, ETC.). 5. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL: WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS
- CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
- SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING. 16. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK WITH NO MORE THAN 9 CALENDAR DAYS IN BETWEEN INSPECTIONS AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED
- ON ALL AREAS OF THE CONSTRUCTION SITE. 7. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE
- BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE. 8. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE
- 9. CONTRACTOR MUST FIELD VERIFY THAT THE EXISTING FIELD CONTOUR ELEVATIONS ARE ACCURATE WITHIN ONE-HALF () OF THE EXISTING CONDITION CONTOUR INTERVAL SHOWN ON THE PLANS. IF THE ELEVATIONS ARE NOT WITHIN ONE-HALF (+) OF THE CONTOUR ELEVATIONS, NO LAND DISTURBING ACTIVITY CAN CONTINUE ON THE SITE UNTIL THE PLAN PREPARER HAS BEEN INFORMED. THE PLAN PREPARER MUST APPROVE IN WRITING THE USE OF THE EXISTING SWPPP ELEVATIONS AND NOTIFY GREENVILLE COUNTY STORMWATER MANAGEMENT OF THEIR APPROVAL PRIOR TO WORK CONTINUING, IF THE EXISTING SWPPP WILL NOT FUNCTION AS DESIGNED DUE TO THE ELEVATION CHANGE, A NEW SURVEY MUST BE CONDUCTED AND THE SWPPP MUST BE MODIFIED BY THE PLAN PREPARER.



SEEDING CONSTRUCTION SPECIFICATIONS

FEBRUARY 2014

DATE

- USE SEED RATES BASED ON PURE LIVE SEED (PLS) OF 80%. WHEN PLS IS BELOW 80% ADJUST

CONDUCT SOIL TEST TO DETERMINE PH AND NUTRIENT CONTENT. ROUGHEN THE OIL BY

APPLY AMENDMENTS AS NEEDED TO ADJUST PH TO 6.0-7.5. INCORPORATE THESE

COMPACT, THE TOPSOIL SHOULD BE HARROWED WITH A DISK, SPRING TOOTH DRAG, SPIKE TOOTH DRAG, OR OTHER EQUIPMENT DESIGNED TO CONDITIONS THE SOIL FOR SEEDING. HARROWING, TRACKING OR FURROWING SHOULD BE DONE HORIZONTALLY ACROSS THE FACE

APPLY SEED AT THE RATES SPECIFIED USING CALIBRATED SEED SPREADERS, CYCLONE



11	12	13	14	15	16
		<u>.</u>			

EXISTING PROPOSED DESCRIPTION EDGE OF PAVEMENT _____ 18" CONCRETE CURB & GUTTER _____6" SS _____ SS CONCRETE <u>.</u> ··· 2 ···· PAVEMENT SITE DATA SITE DATA PARCEL ID(S): 063501010170 LOT AREA/SIZE: 40.9 ACRES ADDRESS: 2151 FEWS CHAPEL ROAD COUNTY: GREENVILLE STATE: SOUTH CAROLINA **ZONING CLASSIFICATION** JURISDICTION: **GREENVILLE COUNTY EXISTING ZONING:** UNZONED EXISTING USE: **BLUE RIDGE HS (INSTITUTIONAL** PROPOSED USE: **BLUE RIDGE HS (INSTITUTIONAL** SCHOOL IS TO REMAIN OPEN THROUGHOUT CONSTRUCTION (SEE

LEGEND

ARCHITECTURAL PLANS AND CONSTRUCTION SEQUENCE ON EROSION CONTROL PLANS FOR CONSTRUCTION PHASING INFORMATION). CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION FENCING AROUND SITE PERIMETER AS NECESSARY FOR SECURITY AND PUBLIC SAFETY.

> NOTE: REFER TO ARCHITECTURAL PLANS FOR ALL FENCE/GATE SIZE AND DETAILS

 This drawing is and shall remain the property of Goodwyn, Mills and Cawood, Inc. (GMC) and Goodwyn Mills Cawood LLC (GMC). Unauthorized use of any kind including use on other projects is prohibited. In the event that a conflict arises between the sealed drawings and the electronic files, the sealed drawings will govern.

		A	REFERENCE CIVIL DRAWINGS FOR DETAILED SITE INFORMATION, SITE UTILITIES, AND DEMOLITION.
	DOOR	В	REFERENCE CIVIL DRAWINGS FOR LIMITS OF CONSTRUCTION.
	WALL	С	GENERAL CONTRACTOR TO PROTECT EXISTING CONSTRUCTION TO REMAIN WHILE PERFORMING SITE WORK.
	EXISTING BUILDINGS	D	FIELD VERIFY ALL DIMENSION AND CONDITIONS. BRING ANY DISCREPANCIES TO THE ARCHITECTS ATTENTION PRIOR TO PERFORMING ASSOCIATED WORK.
		E	REVIEW FENCE LAYOUTS ON SITE W/ ARCHITECT PRIOR TO PERFORMING THE WORK.
	ASPHALT PAVING - SEE CIVIL	F	THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL REQUIRED DEMOLITION AND SITE PREP REQUIRED TO INSTALL THE NEW WORK.
	GRAVEL - SEE CIVIL	G	THE GENERAL CONTRACTOR IS TO PROVIDE ALL TEMPORARY INFRASTRUCTURE MODIFICATIONS REQUIRED TO MAINTAIN FUNCTIONALITY OF EXISTING INFRASTRUCTURE ON SITE DURING CONSTRUCTION.
<u> </u>	NEW 6'-0" TALL CHAIN LINK FENCE - SEE DETAILS	н	ALL DISTURBED AREAS MUST BE STABILIZED, SEE CIVIL.

		1	2	3	4	5
K						
_	_					
J						
_	_					
н						
						UNIT HEATER SUSPENDED BUILDING STRUCTURE
_	_					ELECTRIC GARAGE DOOR TROLLEY AND MOTOR -
						IU X IU GARAGE DOOR —
G						
_						
F						
F						
_						
E						
_	_					
D						
_						
С						
_						
В						
1.1202 :N0						
I E VEKSIC	_					
I EMPLA						
Md ZI:						
/2024 2:09						
./19,						

3

4

SUSPENDED LINEAR SHOP

1 REFLECTED CEILING PLAN SCALE: 1/4" = 1'-0"

1

5

GENERAL NOTES

- A GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS. BRING ALL DISCREPANCIES TO THE ARCHITECTS ATTENTION PRIOR TO PROCEEDING WITH THE WORK. GENERAL CONTRACTOR TO PROTECT EXISTING CONSTRUCTION TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
- B REFER TO ELECTRICAL AND MECHANICAL DRAWINGS FOR QUANTITIES OF LIGHTS, MECHANICAL EQUIPMENT, AND OTHER DEVICES. DEVICES ARE SHOWN ON ARCHITECTURAL DRAWINGS FOR LOCATIONS, COORDINATION WITH RELATED WORK, AND ARE FOR REFERENCE ONLY.
- C THE PROJECT IS SEISMIC DESIGN CATEGORY C. ALL CEILING SYSTEMS AND SUSPENDED FIXTURES MUST MEET ALL REQUIREMENTS AS MANDATED UNDER SEISMIC DESIGN CATEGORY C.
- D. THE PRE-ENGINEERED METAL BUILDING AND RELATED ITEMS ARE TO BE PROVIDED BY THE PRE-MANUFACTURED METAL BUILDING PROVIDER -THIS IS A DELEGATED DESIGN AND THE SHOP DRAWING SUBMITTAL MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN SOUTH CAROLINA. FINAL DIMENSIONS, DETAILS, AND CONSTRUCTION ARE TO BE DETERMINED BY THE METAL BUILDING PROVIDER. SUBMIT FULL SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. GENERAL CONTRACTOR MUST COORDINATE ALL RELATED WORK WITH THE APPROVED PRE-MANUFACTURED METAL BUILDING SHOP DRAWINGS.

RCP LEGEND

PREFINISHED ALUMINUM 6X6 GUTTER
 AND 4X4 DOWNSPOUTS (DS), TYPICAL PROVIDE SPLASHBLOCK AT EACH
 DOWNSPOUT LOCATION, TYPICAL

10

11

- A FIELD VERIFY ALL DIMENSIONS AND CONDITIONS. GENERAL CONTRACTOR TO BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION
- B GENERAL CONTRACTOR TO PROTECT ALL EXISTING WORK TO REMAIN

E THE PRE-ENGINEERED METAL BUILDING AND RELATED ITEMS ARE TO BE PROVIDED BY THE PRE-MANUFACTURED METAL BUILDING PROVIDER -THIS IS A DELEGATED DESIGN AND THE SHOP DRAWING SUBMITTAL MUST BE STAMPED BY A STRUCTURAL ENGINEER LICENSED IN SOUTH CAROLINA. FINAL DIMENSIONS, DETAILS, AND CONSTRUCTION ARE TO BE DETERMINED BY THE METAL BUILDING PROVIDER. SUBMIT FULL SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. GENERAL CONTRACTOR MUST COORDINATE ALL RELATED WORK WITH THE APPROVED

		1 2 3	1	4
		<u>GENERAL NOTES</u>		
	1.0	THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS AND MATERIALS INDICATED ON THE DRAWINGS AND FOR THE LIVE LOADS INDICATED IN THE DESIGN DATA. IT IS THE	3.26	PROVIDED CONCRETE POUR STOPS (
К		CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FALSEWORK,	3.27	PROVIDE ADDITIONAL 2-#4 x 3'-0" REIN CORNERS. PLACE BARS AT MID-DEPT
	1.1	FORMWORK, STAGING, BRACING, SHEETING, AND SHORING, ETC. COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL DRAWINGS	3.28	CONSTRUCTION TOLERANCES FOR C "SPECIFICATIONS FOR TOLERANCE FOR COMMENTARY" FOR CIP CONCRETE
_	1.2	THE CONTRACTOR SHALL REFER TO THE ARCHITECURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS, ETC. NOT HEREIN	4.0	PRE-ENGINEERED BUILDING (B)
	1.3	SLAB OPENINGS SMALLER THAN 10" AND NOT INDICATED ON PLAN SHALL BE CORE DRILLED IN FIELD U.N.O. SEE MECHANICAL, ELECTRICAL AND PLUBMING DRAWINGS FOR	5.0	ANCHORING TO CONCRETE
J	1.4	LOCATIONS OF THESE OPENINGS. WORK NOT INCLUDED ON THE DRAWINGS BUT IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES ELSEWHERE ON THE DRAWINGS SHALL BE REPEATED.	0.1	CONSIST OF ONE OF THE FOLLOWING HILTI, SIMPSON STRONG-TIE, POWER EQUAL PRODUCTS AS REFERENCED PROVIDED ANCHORS SHALL HAVE PR
	1.5	IN CASE OF CONFLICT BETWEEN THE NOTES, DETAILS AND SPECFICATIONS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.		FOR THEIR INTENDED USE. a. ANCHORAGE TO CONCRET i. ADHESIVE ANCHOI ii. MEDIUM DUTY MEO
	2.0	FOUNDATION NOTES		iii. HEAVY DUTY MECH
	2.1	(NOT USED)		i. ADHESIVE ANCHOF
	2.2	SEE THE SPECIFICATION REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB ON GRADE SUBGRADE INCLUDING COMPACTION PROCEDURES.		i. ADHESIVE ANCHOF ii. MECHANICAL ANCH
н	2.3	EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOM TEMPORARILY LINED WITH 6 MIL POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR		d. ANCHORAGE TO HOLLOW i. ADHESIVE ANCHOF
	2.4	FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION WHICH DIFFER FROM THOSE	5.2	SEE DRAWINGS FOR THE TYPE, SIZE,
		DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE GENERAL CONTRACTOR BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. SEE PROJECT	5.3 5.4	INSPECTIONS OF POST-INSTALLED AN
_		SPECIFICATIONS. ALL BASEMENT WALLS UNLESS NOTED ARE DESIGNED AS LATERALLY SUPPORTED AT THE TOP. THEREFORE, THE 1ST FLOOR FRAME AND SLAB SHALL BE INSTALLED BEFORE BACKFILLING WALLS. ALSO, THE BASEMENT SLAB ON GRADE SHALL BE INSTALLED BEFORE BACKFILL AT PERIMETER BUILDING BASEMENT WALLS	5.5	ANCHOR CAPACITY FOR THE SELECT CAPACITY LISTED FOR THE REFEREN
	2.5	NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING		STRUCTURAL ENGINEER OF RECORD DOCUMENTATION DEMONSTRATING
	2.6	FREE WATER, FROST, ICE OR LOOSE MATERIAL. SEE PLUMBING, ELECTRICAL & CIVIL DRAWINGS FOR REQUIRED UNDERSLAB UTILITIES.		HAVING AN ICC ESR SHOWING COMPI LOAD RESISTANCE, INSTALLATION CA
G	2.7	SEE SPECIFICATIONS FOR ALL WATERPROOFING DETAILS AND MATERIALS AS REQUIRED.	5.6	ADHESIVE ANCHORS SELECTED ARE CURED AND REACHED ITS 28-DAY SPI
0	2.8	IF UNDERMINING OF FOOTING OCCURS, FILL VOIDS WITH 2500 PSI CONCRETE. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.	5 7	RESPONSIBLE FOR SELECTING AN AP ABOVE) IF THE CONCRETE HAS NOT Y THE TIME OF INSTALLATION.
	3.0	<u>CONCRETE</u>	5.7	ADHESIVE ANCHORS SHALL BE INSTA INSTALLATION INSTRUCTIONS (MPII).
_	3.1	CONCRETE SHALL HAVE THE UNIT WEIGHT AND THE MINIMUM COMPRESSIVE STRENGTHS (fc) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE ON DWG S002. SEE SPECIFICATIONS FOR FURTHER INFORMATION.	5.8	ADHESIVE ANCHORS INSTALLED IN A CONTINUOUSLY INSPECTED DURING
	3.2	ENTRAIN AIR TO PRODUCE TOTAL AIR CONTENT ACCORDING TO THE SPECIFICATIONS. FOR CONCRETE EXPOSED TO FREEZING TEMPERATURES (EXTERIOR FOOTINGS, SLAB TURNDOWNS, EXTERIOR SLABS AND SLABS-ON-GRADE, EXTERIOR RETAINING WALLS,	5.9	THE CERTIFICATION SHALL INCLUDE A ACI/CRSI ADHESIVE ANCHOR INSTALL ADHESIVE ANCHORS SHALL BE PROO
F		AND EXTERIOR GRADE BEAMS.)	5.10	EXTERIOR ANCHORS SHALL BE GALVA
•	3.3	GROUT FOR BASE PLATES SHALL BE NON-SHRINKABLE GROUT AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI, U.N.O.	5.11	THE CONTRACTOR SHALL ARRANGE ONSITE INSTALLATION TRAINING FOR THE REQUIREMENTS OF NOTE 8 ABOY
	3.4	NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.	0.12	LOCATIONS. UNLESS NOTED ON THE REVIEW THE EXISTING STRUCTURAL THE REINFORCING BARS AT THE LOC
_	3.6	ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF "SPECIFICATIONS		DESTRUCTIVE MEANS.
		FOR STRUCTURAL CONCRETE", ACI 301, AND CONTRACT SPECIFICATIONS. WHEN THERE IS A CONFLICT BETWEEN ACI AND SPECIFICATIONS, THE MORE STRINGENT SHALL GOVERN.		
F	3.7	CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH ¾" X 45 DEGREE CHAMFER U.N.O.		
L	0.0	REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS. ALL LAP SPLICES SHALL BE CLASS "B" U.N.O. SEE LAP SPLICE SCHEDULE ON DRAWING S002.		
	3.9	HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF		
_		INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.		
	3.10	SLABS-ON-GRADE SHALL HAVE CONSTRUCTION JOINTS OR CRACK CONTROL JOINTS AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS CAN BE USED AT CONTROL JOINT LOCATIONS AT CONTRACTORS OPTION. SEE SLAB PLANS & JOINT DETAILS FOR		
D	3.11	SEE SPECIFICATIONS FOR ALL WATERPROOFING/DAMPROOFING DETAILS.		
	3.12	ALL WELDED WIRE FABRIC SHALL CONFORM TO THE STANDARDS OF ASTM A-185. SUPPLY IN FLAT SHEETS.		
_	3.13	ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED, AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301, AND THE "MANUAL OF STANDARD PRACTICE FOR		
	3.14	DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION. SHOP DRAWINGS SHOWING REINFORCING DETAILS, INCLUDING STEEL SIZES, SPACING AND PLACEMENT SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.		
	3.15	ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AND TIED SECURELY.		
C	3.16	ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, U.N.O. ON DRAWINGS.		
	3.17	ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS AS SHOWN ON THE DRAWINGS.		
	3.18	SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL FLOOR FINISHES.		
	3.19	THE CONTRACTOR SHALL COORDINATE ADDITIONAL WALL/SLAB OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.		
	3.20	U.N.O., ALL CURBS SHALL BE REINFORCED WITH AT LEAST 1 #4 CONTINUOUS AND #4 AT 12" O.C. DOWELS TO STRUCTURE BELOW.		
В	3.21	THE SUB-CONTRACTOR SHALL VERIFY ALL OPENINGS, PAD SIZES, AND ANCHOR BOLTS WITH EQUIPMENT SELECTED.		

3.22 FOR ALL WALLS & PIERS, PROVIDE DOWELS INTO FOOTING AT EACH VERT. REINF. BAR, U.N.O. DOWEL SIZE SHALL BE SAME AS VERT. REINF.

3.23 ALL DEFORMED BAR ANCHORS SHALL BE TRS NELSON DIVISION OR EQUAL ¹/₂" DIA. U.N.O. CONFORMING TO ASTM A-496 WITH A MINIMUM TENSILE STRENGTH OF 80,000 PSI. ANCHOR DIMENSIONS SHALL BE IN ACCORDANCE WITH ASTM D-19. INSTALL ANCHORS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BY AUTOMATIC END WELDING AS INDICATED ON THE DRAWINGS. NO UNAUTHORIZED OR FIELD WELDING SHALL BE MADE WITHOUT AUTHORIZATION FROM THE MANUFACTURER.

3.24 ALL REINFORCING INDICATED TO BE WELDED SHALL BE IN ACCORDANCE WITH ASTM A706, "LOW ALLOY STEEL DEFORMED BARS FOR CONCRETE REINFORCEMENT". ANY INSTALLATIONS USING MANUFACTURER'S EQUIPMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

3.25 WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH AWS D1.4

UR STOPS OR FORM AS REQUIRED FOR INSTALLATION OF ALL

x 3'-0" REINFORCING BARS IN SLAB-ON-GRADE AT ALL RE-ENTRANT T MID-DEPTH OF SLAB WITH A CLEARANCE OF 2" FROM CORNER U.N.O. ICES FOR CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 117, LERANCE FOR CONCRETE CONSTRUCTION AND MATERIALS AND

LDING (BY OTHERS, N.I.C.)

D ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL FOLLOWING ANCHOR TYPES. ANCHORS SHALL BE BY TIE, POWERS FASTENERS, OR A MANUFACTURER WITH ERENCED IN THE CONSTRUCTION DOCUMENTS. ALL HAVE PROPER TESTING AND ACCREDITATION BY ICC

O CONCRETE IVE ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE. M DUTY MECHANICAL ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE. DUTY MECHANICAL ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE.

ING INTO CONCRETE IVE ANCHORS FOR USE WITH CRACKED AND UNCRACKED CONCRETE. O SOLID GROUTED MASONRY VE ANCHORS NICAL ANCHORS

D HOLLOW / MULTI-WYTHE MASONRY VE ANCHORS WITH ASSOCIATED MESH NETTING AND GROUTING

TYPE, SIZE, LOCATION AND MINIMUM EMBEDMENT DEPTH OF ANCHORS. AS SHOWN OR IMPLIED IN THE CONSTRUCTION DRAWINGS SHALL BE MET. STALLED ANCHORS SHALL BE IN ACCORDANCE WITH THE SPECIAL INSPECTION

SHOWN IN THESE CONSTRUCTION DOCUMENTS.

HE SELECTED ANCHORS SHALL BE COMPATIBLE WITH THE ANCHORAGE E REFERENCED PRODUCT IN THE CONSTRUCTION DOCUMENTS. SUBSTITUTION TE PRODUCTS MUST BE APPROVED THRU THE SUBMITTAL PROCESS BY THE F RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS OR STRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE F THE REFERENCED PRODUCT. SUBSTITUTIONS SHALL BE EVALUATED BY THEIR VING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LLATION CATEGORY AND APPROPRIATE INSTALLATION INSTRUCTIONS.

CTED ARE ASSUMED TO BE INSTALLED AFTER THE CONCRETE HAS BEEN 28-DAY SPECIFIED COMPRESSIVE STRENGTH. THE CONTRACTORS SHALL BE TING AN APPROPRIATE ANCHOR FOR A SUBSTITUTION REQUEST (SEE NOTE 5 HAS NOT YET REACHED ITS 28-DAY SPECIFIED COMPRESSIVE STRENGTH AT

ORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. POST-INSTALLED L BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED ONS (MPII). INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY NSTÀLL ÁDHESIVE ANCHORS.

ALLED IN A HORIZONTAL OR UPWARDLY INCLINED ORINETATION SHALL BE ED DURING INSTALLATION BY THE SPECIAL INSPECTOR. INSTALLATION OF THESE ORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFIATION PROGRAM. INCLUDE WRITTEN AND PERFORMACE TESTS IN ACCORDANCE WITH THE OR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.

L BE PROOF TESTED IN ACCORDANCE WITH ACI 355.4. L BE GALVANIZED FOR PROTECTION FROM THE ELEMENTS.

ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE AINING FOR ALL OF THE PRODUCTS SPECIFIED. (THIS DOES NOT SUPERCEDE IOTE 8 ABOVE.)

ARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR ED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTORS SHALL RUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF AT THE LOCATIONS OF THE CONCRETE ANCHROS BY GPR, X-RAY OR OTHER NON-

8

1

7

MMSA, INC. IS NOT RESPOSIBLE FOR ENGINEERED BUILDING DESIGN OR BUILDING ATTACHMENTS TO CONCRETE SLAB

7

MMSA, INC. - STRUCTURAL ENGINEERS, ARE EOR ONLY FOR

THE DESIGN OF THE FOUNDATIONS / SLAB-ON-GRADE SYSTEM

-	1	2			3			4	1
к	STRUC ALL DESIGN INTERNATIO	CTURAL DE S SHALL CONFORM TO T NAL BUILDING CODE, 202	SIGN CRI HE PROVISIONS OF T 21 EDITION	<u>FERIA</u> He					
	1.0 DESIGN LOADS 1.1 DEAD LOADS 1.1.1 ROOF DEAD LO	DADS		GRAVITY LC	DADS				
J	DEAD LOAD PRIMARY COLLA	TERAL LOAD (ROOF)		3 PSF 10 PSF ((MIN.)				3e
									2n 3r
Н	1.2 LIVE LOADS (PER I 1.2.1 ROOF LIVE LOA	BC 2021) IDS: ALL AREAS (ZONE	S)						3r (2n)
_	UNEATER OF 20								3e
G	1.3 SNOW LOAD (PER 1.3.1 DESIGN PARAM GROUND SNOW L SNOW IMPORTAN EXPOSURE FACTO EXPOSURE FACTO FLAT ROOF SNOW	IBC 2021 / ASCE 7-16) IETERS OAD, Pg	SF SF (MIN.)						
F	1.4 WIND LOAD (PE	ER IBC 2021 / ASCE 7-16)							
	BASIC WIND S	SPEED (3 SEC. GUST)	V _{ULT.} = 107 MPH V _{ASD} = 83 MPH						
F	RISK CATEGO EXPOSURE C INTERNAL PR	NRY ATEGORY ESSURE COEFF. , GC _{pi}	II C <u>+</u> 0.18 (ENCLOS	ED)					
L	1.4.2 DESIGN W	IND PRESSURE - MAIN W	INDFORCE RESISTIN	G SYSTEM (U	JLTIMATE)				
	LOCATION	WALL (WINDWAR (@ MEAN ROO INTERIOR ZONE	D + LEEWARD) OF HEIGHT) END ZONE	INTERIO	ROOF R ZONE	END ZONE	CANOPY	2a (FT)	
D	ALL AREAS, U.N.O.	<u>+</u> 19.0 PSF	<u>+</u> 28.0 PSF	-19.0 F	PSF	-28.0 PSF		8.0	
	1.4.3 DESIGN W EXTERIOR WA STRUCTURE S THE DIAGRAM	IND PRESSURE - WALL C ALL SYSTEMS & THEIR ATTAC SHALL BE DESIGNED FOR THE 1 BELOW:	OMPONENTS & CLAD HMENTS TO THE PRIMAR E PRESSURES SHOWN IN	DING (ULTIM	ATE)				
C		H 5 NOTE: PRESSURE O BUILDINGS WITH ME	ANY CORNER OR EDGE	TEMS FOR S SHOWN					
В		LOCATION	н	WINDWARE psf (IN	D PRESSURE	LEEWAI psf (RD PRESSURE DUTWARD)	a	
		AREA <u><</u> 10 ft ²	0-18.5'	(<u>4</u>) 26.0	26.0	-28.0	-34.5	(FT) 4.0	_
_	ALL AREAS (TYP, U.N.O.)	AREA = 50 ft ²	0-18.5'	23.0	23.0	-25.5	-29.0	4.0	
Ę		AREA = 100 ft ²	0-18.5'	22.0	22.0	-24.0	-27.0	4.0	

3

1.4.4 DESIGN WIND PRESSURE - ROOF COMPONENTS & CLADDING (ULTIMATE)

			MAIN BUILDING ROOF (OPE	EN)						
	UPLIFT PRESSURE psf (ULTIMATE)									
AREA	ALL ZONES	ZONE 2e	ZONE (2n) (2r) (3e)	ZONE 3r	ZONE 6	OVERHANG				
	T (PSF)	T (PSF)	T (PSF)	T (PSF)	T (PSF)	T (PSF)				
A <u><</u> 10ft ²	+16	-47.5	-69	-82.5	+42.5, -80	-102.5				
A = 50ft ²	+16	-29	-47.5	-55	+32, -58	-66				
A = 100ft ²	+16	-16	-38	-43	+21.5, -38	-53				

"+" = PRESSURES ACTING TOWARD SURFACES

.....

"-" = PRESSURES ACTING AWAY FROM SURFACES "OH" = INDICATES ROOF OVERHANG

.

1.5 SEISMIC LOAD (PER IBC 2021 / ASCE 7-16)

1.5.1 RISK CATEGORY

- 1.5.2 SEISMIC IMPORTANCE FACTOR
- 1.5.3 SPECTRAL ACCELERATION COEFFICIENTS S AND S 1
- 1.5.4 SPECTRAL RESPONSE COEFFICIENTS S DS AND S D1 1.5.5 SITE CLASS
- 1.5.6 BASIC SEISMIC-FORCE-RESISTING SYSTEM
- (PER TABLE 1617.6)
- 1.5.7 DESIGN BASE SHEAR, $V = C_S x W$
- 1.5.9 ANALYSIS PROCEDURE
- 1.5.10 SEISMIC RESPONSE COEFF. , C_S 1.5.11 SEISMIC DESIGN CATEGORY
- 1.5.12 RESPONSE MODIFICATION FACTOR, R

2.0 FOUNDATION DESIGN CRITERIA

- 2.1 ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF (ASSUMED) - TO BE FIELD VERIFIED BY GEOTECHNICAL ENGINEER PRIOR TO SLAB-ON-GRADE/ FOUNDATION INSTALLATION.
- 2.2 (NOT USED)
- 2.3 MINIMUM FACTOR OF SAFETY FOR STABILITY AGAINST SLIDING, OVERTURNING AND UPLIFT IS 1.5 SLIDING FRICTION COEFFICIENT FOR FOOTINGS IS 0.30

II (TABLE 1604.5)

- 1.0 $S_S = 0.294g S_1 = 0.094g$
- $S_{DS} = 0.307g S_{D1} = 0.150g$ D (ASSUMED)
- STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- 0.102 * W (KIPS, IN EA. DIR.)
- EQUIVALENT LATERAL FORCE 0.102
- C (TABLE 1616.3 (1) 3.0

4

CONCRETE MATERIALS SCHEDULE								
STRUCTURAL ELEMENT	f'c CONCRETE COMPRESSIVE STRENGTH @ 28 DAYS (PSI)	REMARKS						
ALL FOOTINGS U.N.O.	3000							
SLAB-ON-GRADE	4000							
CONCRETE PIERS	4000							
ALL OTHER CONCRETE	4000							
NOTES: 1. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE. (150 PCF) (U.N.O.)								

	CONCRETE COVER SCHEDULE					
MINIMUM CONCRETE COVER PR 1.) SEE ACI 318-14, SECTION 20.0 2.) DIMENSIONS FOR BAR PLACI COVER REQUIREMENTS GIVE	COTECTION FOR REINFORCEMENT BARS SHALL BE AS FO 6 FOR CONDITIONS NOT NOTED). EMENT GIVEN IN SECTIONS AND DETAILS SHALL SUPERS EN HERE.	<u>DLLOWS</u> : SEDE MINIMUM				
FOOTINGS (EARTH FORMED)		3 INCHES				
COLUMNS / PIERS		1 1/2 INCHES				
GRADE BEAMS OR SLAB TURNED TOP BOTTOM SIDES (EARTH FORMED) SIDES (BOARD FORMED) SLABS-ON-GRADE (NO EXPOSU SLABS-ON-GRADE (EXPOSURE	D DOWN EDGES: #5 BAR & SMALLER #6 THRU #11 BAR IRE TO WEATHER) FROM TOP TO WEATHER) FROM TOP	1 1/2 INCHES 3 INCHES 3 INCHES 1 1/2 INCHES 2 INCHES 3/4 INCHES 1 1/2 INCHES				
RETAINING WALLS (NO SURFAC EARTH SIDE AND FRONT SIDE (I #5 BAR AND SMALLER #6 THRU #11 BAR PROVIDE STANDARD BAR CHAIL PROTECTION SPECIFIED.	CES SHALL BE EARTH FORMED EXPOSED TO WEATHER): 	1 1/2 INCHES 2 INCHES E				

2. CONCRETE IS NORMAL WEIGHT (150 pcf), SEE SCHED. THIS DWG FOR CONC. COMPRESSIVE STRENGTH.

		f'c = 3	8000psi			f'c = 4	000psi	
	(TOP	BARS)	(OTHE	R BARS)	(TOP	BARS)	(OTHE	R BARS)
BAR BAR SIZE	CATEGORY A	CATEGORY B	CATEGORY A	CATEGORY B	CATEGORY A	CATEGORY B	CATEGORY A	CATEGOR B
#3	22	32	17	25	20	29	15	22
#4	29	43	22	33	25	38	19	29
#5	36	54	28	41	32	47	24	36
#6	43	64	33	50	38	60	29	43
#7	63	94	48	72	55	82	42	63
#8	72	107	55	82	63	94	48	72
#9	81	121	62	93	71	106	54	81
#10	91	136	70	105	80	119	61	91
#11	101	151	78	116	87	130	67	100

LAP SPLICE REINFORCING SCHEDULE NOTES:

CONCRETE COVER SCHEDULE NOTES:

1. YIELD STRENGTH OF REINFORCEMENT, fy = 60 ksi .

1. YIELD STRENGTH OF REINFORCEMENT, fy = 60 ksi (LAP SPLICE LENGTH GIVEN IN SCHEDULE IS IN INCHES).

2. CONCRETE IS NORMAL WEIGHT (150 pcf), SEE SCHEDULE THIS DRAWING FOR CONCRETE COMPRESSIVE STRENGTH.

3. TOP BAR INDICATES HORIZONTAL REINFORCEMENT WHICH IS PLACED ABOVE 12" OR MORE OF FRESH CONCRETE. 4. UNLESS NOTED OTHERWISE COLUMNS & PIERS UTILIZE TENSION LAP SPLICES.

5. CATEGORY 'A' IN TABLE DENOTES BARS THAT HAVE CLEAR SPACING AND COVER AT LEAST db AND STIRRUPS NOT LESS THAN CODE MIN. OR CLEAR SPACING GREATER THAN 2db AND CLEAR COVER OF db. CATEGORY 'B' IS ALL

OTHER CASES.

VALUES IN TABLES ARE FOR A CLASS 'A' TENSION SPLICE. CLASS 'B' TENSION SPLICE VALUES CAN BE OBTAINED BY MULTIPLYING THE VALUES FROM THE TABLE BY 1.3.

ELEC RAYWALL UNIT MODEL No. No. EUH-1 F2F5107CA1L <u>NOTE:</u>

EXHAUST FAN SCHEDULE										
UNIT No.	GREENHECK MODEL NO.	TYPE DRIVE	C.F.M.	R.P.M.	S.P. INCHES	H.P./ WATTS	ELECTRICAL	SONES INLET/RADIATED	WEIGHT (lbs.)	REMARKS
EX-1	BSQ-200	BELT	4000	898	0.5	1.5 HP	208/1/60	13.8/11.0	250	1, 2

INTERLOCK WITH MANUAL SWITCH. INLINE SQUARE EXHAUST FAN WITH HA BRACKETS, AND DISCONNECT SWITCH.

	OUTSIDE AI	R SCHEDULE (PER	2021 IMC) -	SINGLE ZONE S	YSTEMS (VRP METHO))	
SYSTEM NO.	SPACE NAME	SPACE TYPE	SIZE/ PEOPLE	METHOD	CALCULATIONS	CFM REQ'D	CFM PROVIDED
EX-1	ANIMAL BARN	ANIMAL AREA	1071 S.F./10 PEOPLE	7.5 CFM PER PERSON 0.18 CFM PER SQ. FT. Z.A.D.E. = 1.0	$\frac{(7.5 \times 10) + (0.18 \times 1071)}{1.0} = 268$	268	4000

NOTES:

SECTION 15000 - MECHANICAL GENERAL PROVISIONS COORDINATION OF MECHANICAL WORK:

QUALITY ASSURANCE, STANDARDS AND SYMBOLS:

INTERNATIONAL BUILDING CODE (IBC), 2021 EDITION NFPA CODE

INTERNATIONAL MECHANICAL CODE (IMC) 2021 EDITION NATIONAL ELECTRICAL CODE, NFPA 70 ELECTRICAL PROVISIONS OF MECHANICAL WORK:

IN CONDUIT.

SECTION 15250 - SYSTEMS INSULATION DESCRIPTION:

DUCTWORK:

DUCT INSULATION SHALL COMPLY WITH PARAGRAPH 803.2.8 IN THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE.

WRAP (1.5 PCF). SEAL INSULATION JOINTS WITH FIRE RETARDANT MASTIC.

SECTION 15800 - DUCTWORK THE CURRENT ISSUE OF NFPA PAMPHLET NO. 90.

FABRICATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA HVAC DUCT

SECTION 15990 - TEST AND BALANCE SYSTEM.

APPLICABLE.

CTI	RIC UN	VIT F	IEAT	ER S	SCHEDL	JLE	
	OUTPUT MBH	INPUT KW	C.F.M.	AMPS	VOLTAGE	WEIGHT (Ibs.)	REMARKS
-	25.6	7.5	700	36.1	208/1/60	54	NOTE 1

1. PROVIDE WITH WALL MOUNTING KIT, DISCONNECT, AND UNIT MOUNTED THERMOSTAT

۱L	SWIT	CH.				
Т	FAN	WITH	HANGING	VIBRATION	ISOLATORS,	MOUNTING

1. Z.A.D.E.- ZONE AIR DISTRIBUTION EFFECTIVENESS, E7. Z.A.D.E.=1.0 2. VENTILATION SYSTEM CALCULATED FOR 15 AIR CHANGES PER HOUR.

MECHANICAL SPECIFICATIONS

- GENERAL: IT IS RECOGNIZED THAT THE CONTRACT DOCUMENTS ARE DIAGRAMMATIC IN SHOWING CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED WITHIN THE MECHANICAL WORK, AND IN ITS INTERFACE WITH OTHER WORK INCLUDING UTILITIES AND ELECTRICAL WORK, AND THAT SUCH ESTABLISHMENT IS THE EXCLUSIVE RESPONSIBILITY OF THE CONTRACTOR.
- GENERAL: THE FOLLOWING STANDARDS ARE IMPOSED, AS APPLICABLE TO THE WORK IN EACH INSTANCE:
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2009 EDITION
- WIRING: THE CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING. ALL CONTROL WIRING SHALL BE

- EXTENT OF INSULATION WORK IS INDICATED AS DESCRIBED HEREIN. IN GENERAL, THE WORK TO INCLUDE INSULATING ALL NEW SUPPLY/RETURN DUCT THAT CONNECTS TO HVAC EQUIPMENT.
- DUCTWORK SHALL BE INSULATED WITH 2" THICK TYPE OWENS CORNING FRK-25 SERIES ED150 DUCT
- ALL SHEET METAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS STIPULATED IN
- SHEET METAL CONSTRUCTION: DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED STEEL. GAUGES (U.S. STANDARDS) OF METAL WHICH SHALL BE USED, TOGETHER WITH THE TYPE OF JOINTS AND METHODS OF STIFFENING AND BRACING FOR VARIOUS SIZE DUCTS SHALL BE AS FOLLOWS:
- CONSTRUCTION STANDARDS FOR THE CLASS AND STATIC PRESSURES REQUIRED.
- ALL DUCTS SHALL HAVE ALL SEAMS AND JOINTS SEALED AIRTIGHT WITH UNITED SHEET METAL SEALER TO BE APPLIED AS PER MFG. BULLETIN DS-3. NO DUCT TAPE WILL BE ALLOWED.
- DUCT HANGERS AND SUPPORTS: SHALL BE EITHER STRAP HANGERS OR TRAPEZE HANGERS PROPERLY SECURED TO THE BUILDING CONSTRUCTION. STRAP HANGERS, METAL ATTACHED TO DUCTS, SHALL BE FASTENED TO SUPPORTING MEMBER BY CLAMPS, ANCHOR BOLTS, OR METAL SCREWS WHICHEVER IS MOST
- AIRSIDE SYSTEMS SHALL BE FLOW TESTED AND BALANCED BY NEBB CERTIFIED TEST AND BALANCE SUBCONTRACTOR. THE SCOPE OF WORK TO INCLUDE TEST AND BALANCE OF EX-1 EXHAUST FAN

MECHANICAL GENERAL NOTES

- 1. ALL SCHEDULES SHOWN ARE THE PURPOSE OF AIDING THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORRECT TOTALS. 2. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR
- CONSTRUCTION DETAILS. CO-ORDINATE HVAC INSTALLATION WITH ALL OTHER TRADES.
- 3. REFER TO ELECTRICAL DRAWINGS FOR POWER CONNECTION POINTS. 4. FOR EXACT DIFFUSER/GRILLE LOCATIONS, REFER TO ARCHITECTURAL REFLECTED
- CEILING PLANS. 5. ALL INSULATION AND FLEX DUCT SHALL COMPLY WITH CHAPTER 6 OF THE
- INTERNATIONAL MECHANICAL CODE. 2021 EDITION. 6. AUXILIARY DRAIN PANS AND LINES SHALL COMPLY WITH CHAPTER 3 OF THE
- INTERNATIONAL MECHANICAL CODE. 2021 EDITION. 7. ALL ELECTRICALLY POWERED EQUIPMENT SHALL BE LISTED AND LABELED PER NATIONAL ELECTRICAL CODE, AND INTERNATIONAL MECHANICAL CODE, 2021 EDITION CHAPTER 3.
- 8. ALL EQUIPMENT SHALL BE ACCESSIBLE PER INTERNATIONAL MECHANICAL CODE, CHAPTER 3 2021 EDITION.
- 9. ALL DUCTWORK ARRANGEMENT AND ROUTING AS SHOWN IS DIAGRAMMATIC AND MAY REQUIRE ALTERATIONS DIFFERENT FROM THAT SHOWN IN ORDER TO ACCOMMODATE STRUCTURE/ARCHITECTURAL FEATURES. CONTRACTOR SHALL FIELD VERIFY AND MAKE ALTERATIONS OR REVISIONS AS REQUIRED.
- 10. INSIDE DUCT DIMENSIONS SHALL BE SAME AS THOSE SHOWN ON DRAWINGS.

LOUVER SCHEDULE						
SYMBOL	SIZE WxH	TYPE	CFM	REMARKS		
L-1	48"×48"	INTAKE	4000	NOTES 1-6		
L-2	48"×48"	INTAKE	4000	NOTES 1-6		
NOTES:						

1. BASIS 2. EXTR DLADE LOUN DRAINABLE BLADE, 4" DEEP.
 37.5 DEGREE BLADE ANGLE.

5. INCLUSIVE OF BIRDSCREEN.
 6. FREE AREA VELOCITY = 466 PER MINUTE, 8.58 SQUARE FEET NET FREE AREA.

L	SIZE WxH	TYPE	CFM			
	48"×48"	INTAKE	4000	Ν		
	48"×48"	INTAKE	4000	Ν		
IS OF DESIGN "RUSKIN" MODEL ELF375DX. RUDED ALUMINUM STATIONARY BLADE LOUVER						

	PLUMBING LEGEND
ITEM	DESCRIPTION
C.T.E.	CONNECT TO EXISTING
F.C.O.	FLOOR CLEAN OUT
	DOMESTIC COLD WATER PIPING - D.C.W.
	DOMESTIC HOT WATER PIPING (110°F) - D.H.W.
	SANITARY SEWER or WASTE PIPING - S.S.
	VENT PIPING
\rightarrow	TRANSITION (LOCATED WHERE PIPES CHANGE SIZE)
	BALL VALVE
	CHECK VALVE

-	
	PLUMBING GENERAL NOTES
1.	THE CONTRACTOR SHALL CO-ORDINATE INSTALLATION WITH OTHER TRADES.
2.	THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS SHOWN.
3.	THE CONTRACTOR SHALL REFER TO SITE PLANS FOR ALL OUTSIDE WORK TO
4.	ALL PLUMBING WORK SHALL CONFORM TO THE 2021 INTERNATIONAL PLUMBIN ADA REQUIREMENTS, AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
5.	THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING WASTE & WATER PIPING STARTING THE PROJECT.
6.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF PLUMBING E FLOOR DRAINS & MOUNTING HEIGHTS OF PLUMBING FIXTURES.
7.	PIPING SHOWN ON ALL RISER DIAGRAMS ARE DIAGRAMMATIC, CONTRACTOR IS FOR ALL FITTINGS AND CONNECTIONS AS REQUIRED FOR A COMPLETE INSTAL
8.	ALL PIPING ARRANGEMENTS & ROUTINGS AS SHOWN ARE DIAGRAMMATIC AND ALTERATIONS DIFFERENT FROM THAT SHOWN IN ORDER TO ACCOMMODATE ST ARCHITECTURAL FEATURES. THE CONTRACTOR SHALL VERIFY AND MAKE ALT OR REVISIONS AS REQUIRED.
9.	THE PLUMBER SHALL PAY FOR ALL FEES.

DOMESTIC WATER PIPING ENTRANCE DETAIL NO SCALE

4

7

)	

)TES

E WORK TO BE PERFORMED. L PLUMBING CODE, OSHA &

ATER PIPING BEFORE

PLUMBING EQUIPMENT,

TRACTOR IS RESPONSIBLE ETE INSTALLATION.

MMATIC AND MAY REQUIRE MODATE STRUCTURAL/) MAKE ALTERATIONS

- PIPE SUPPORT BOLT TO FLOOR

PLUMBING SPECIFICATIONS

GENERAL PROVISIONS

A. CODES - THE FOLLOWING CODES ARE IMPOSED AS APPLICABLE TO THE WORK.

- 1. SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL
- 2. INTERNATIONAL BUILDING CODE 2021 EDITION 3. INTERNATIONAL PLUMBING CODE - 2021 EDITION
- 4. INTERNATIONAL ENERGY CONSERVATION CODE 2009 EDITION
- B. EQUIPMENT LABELING ALL ELECTRICALLY POWERED EQUIPMENT TO BE U.L. LABELED OR SIMILAR TESTING AGENCY.
- C. MAINTENANCE MANUALS PROVIDE OWNER WITH (3) THREE COMPLETE SETS OF BOUND PRODUCT AND MAINTENANCE DATA.
- D. ELECTRICAL ALL WIRING TO BE PROVIDED BY ELECTRICAL CONTRACTOR.

SYSTEMS INSULATION

- A DOMESTIC WATER PIPING PIPE SIZE 1-1/2" AND SMALLER 1" THICKNESS. INSULATION TO BE OWENS CORNING FIBERGLAS ASJ/SSL-11, U.L. LISTED.
- B. ALL EXPOSED WATER AND WASTE DRAINAGE PIPE UNDER ALL HANDICAPPED AND PUBLIC LAVATORIES SHALL BE COVERED WITH "TRUEBRO" INSULATION & COVERING.
- C ACCEPTABLE MANUFACTURERS CERTAINTEED, KNUAF, AND OWENS-CORNING.

DOMESTIC WATER PIPING SYSTEM

- A. PIPING COPPER TUBE ASTM B88, TYPE L, HARD-DRAWN TEMPER.
- B. VALVES 150 LB. BRONZE GATE AND GLOBE VALVES. ACCEPTABLE MANUFACTURERS: HAMMOND, NIBCO-SCOTT, GRINNELL AND CRANE.
- C. ESCUTCHEON HEAVY CHROME PLATED BRASS.
- D. STERILIZATION AS REQUIRED BY SOUTH CAROLINA DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL.

SOIL/WASTE AND VENT PIPING SYSTEM

- A. SANITARY SEWER WASTE AND VENT PIPING SCHEDULE 40 SOLID WALL PVC PIPING WITH DWV FITTINGS AND SOLVENT CEMENT JOINTS FOR UNDERGROUND AND ABOVE GROUND WASTE AND VENT PIPING.
- B. ESCUTCHEONS HEAVY CHROME PLATED BRASS.
- C. CLEANOUTS ACCEPTABLE MANUFACTURERS: JOSAM, ZURN, WADE, J.R. SMITH.

ABBREVIATIONS:

AFG [:] U	ABOVE FINISHED GRADE FUSE
WE	FURNISHED WITH EQUIPMENT
FI	GROUND FAULT INTERRUPTER DEVICE
TG	LIGHTING (L.)
/ILO	MAIN LUGS ONLY
ИСВ	MAIN CIRCUIT BREAKER

STRUCTURE.

NTS PH PVC RECPT UH WP

5

HOME RUN TO LIGHTING/SERVICE PANEL, HASH MARKS, WHEN SHOWN, INDICATE NUMBERS OF CONDUCTORS. "/" INDICATES HOT WIRE, "//" INDICATES NEUTRAL CONDUCTOR, "">" INDICATES GROUND CONDUCTOR. HOME RUN NOTE INDICATES PANEL NAME AND CIRCUIT NAME OR FEEDER TAG. CONDUCTORS SHALL BE #12 AWG IN 3/4" CONDUIT UNLESS NOTED OTHERWISE. ANY HOME RUN OR CONDUIT WITHOUT HASH MARKS IS TO CONTAIN 3 CONDUCTORS; 1 HOT, 1 NEUTRAL, AND 1 EQUIPMENT GROUND, EACH HOT CIRCUIT SHALL BE PAIRED WITH A SEPARATE

CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALLS, UNLESS NOTED

NOTE: ALL WIRING DEVICES TO BE GRAY, WITH #302 STAINLESS STEEL COVERPLATE (FLUSH MOUNTED) UNLESS NOTED OTHERWISE ON THE DRAWING OR

20A, 125V, 2P, 3W, NEMA 5-20R, DUPLEX RECEPTACLE. HUBBELL 5362-I OR EQUAL. STANDARD POWER. "WP" DENOTES WEATHER RESISTANT TYPE RECEPTACLE WITH CAST IN-USE COVER. "GFI" DENOTES GFCI TYPE. 'C' DENOTES RECEPTACLE TO BE

SAME AS " \oplus " ABOVE EXCEPT SURFACE MOUNTED. (SEE DETAIL 3/E0.01)

SINGLE POLE LIGHTING SWITCH 120-277 VOLT, 20 AMP, SPEC GRADE. LETTER ("a") DESIGNATES WHICH FIXTURES ARE CONTROLLED FROM WHICH SWITCHES WHEN

PASSIVE INFRARED WALL SWITCH/OCCUPANCY SENSOR - WATTSTOPPER # PW-301

COMBINATION EMERGENCY LIGHT AND EXIT FIXTURE WITH INTEGRAL BATTERIES -ARROW INDICATES ILLUMINATED DIRECTIONAL ARROWS, SHADED SECTION INDICATES FACE WHICH IS ILLUMINATED. STEM INDICATES WALL MOUNTED. ALL

EMERGENCY LIGHTING UNIT. EMERGENCY LIGHTS SHALL BE MOUNTED TO THE CEILING. MOUNT TO JUNCTION BOX SUPPORTED FROM T-BAR SUPPORT. EMERGENCY LIGHTING UNIT. ALL EMERGENCY LIGHTS SHALL BE MOUNTED TO THE

> NOT TO SCALE PHASE POLYVINYL CHLORIDE CONDUIT RECEPTACLE (R.) UNIT HEATER WEATHER PROOF

ELECTRICAL GENERAL NOTES:

- I. INSPECT SITE PRIOR TO SUBMITTING BID. DRAWINGS ARE INTENDED TO COVER THE REQUIRED ELECTRICAL SYSTEMS. DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEM IN EVERY RESPECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED.
- 2. CONFORM TO THE NATIONAL ELECTRICAL CODE (2020), IBC (2021), IECC (2009), APPLICABLE NEMA, ANSI AND IEEE PUBLICATIONS, U.L. AND ADA STANDARDS AND OSHA REQUIREMENTS. COMPLY WITH LOCAL, COUNTY, STATE AND NATIONAL CODES HAVING JURISDICTION.
- 3. FURNISH AND INSTALL ALL MATERIALS IN A NEAT AND WORKMANLIKE FASHION. ALL MATERIALS SHALL BE NEW, WITH FIRST QUALITY AND UL LABEL.
- 4. VERIFY ALL DIMENSIONS AND CLEARANCES PRIOR TO INSTALLATION OF EQUIPMENT AND RACEWAYS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK WITH THAT OF ALL OTHER TRADES AS REQUIRED.
- 5. CONDUIT SHALL BE EMT FOR BRANCH CIRCUIT WIRING AS ALLOWED BY NEC, EXCEPT THAT SET SCREW OR CRIMP FITTINGS ARE NOT ALLOWED. WHERE EXPOSED TO PHYSICAL DAMAGE CONDUITS SHALL BE RIGID GALVANIZED STEEL. MINIMUM CONDUIT SIZE SHALL BE 3/4". ALL CONDUCTORS SHALL BE TYPE THHN/THWN, STRANDED 600V COPPER BUILDING WIRE. MINIMUM SIZE SHALL BE #12 AWG COPPER UNLESS NOTED. UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 WITH TRANSITION TO RIGID GALVANIZED STEEL FOR EXPOSED CONDUITS.
- 6. PROVIDE GROUNDING FOR ALL EQUIPMENT IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 7. ALL ENCLOSURES SHALL BE OF THE NEMA TYPE WHICH IS SUITABLE FOR THE APPLICATION. 8. SEAL ALL CONDUIT PENETRATIONS TO MATCH RATING OF WALL BEING PENETRATED.
- 9. ALL WORK SHALL HAVE PROPER LABELING AND NAMEPLATES. ALL CIRCUITS SHALL BE LABELED AT PANELS AND BOXES AS INDICATED. ALL PANELS AND DISCONNECTS ARE TO BE PERMANENTLY MARKED WITH NAME OF EQUIPMENT SERVED AS WELL AS SOURCE PANEL AND CIRCUIT NUMBER PER NEC 110. ALL PANELS ARE TO BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULES.
- 10. THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION. INSTRUCT THE OWNERS' PERSONNEL IN THE PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS. FURNISH TO THE OWNER THREE SETS OF OPERATION AND MAINTENANCE MANUALS FOR EACH SYSTEM.
- 11. GUARANTEE THE WORK INSTALLED FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE. DEFECTS WHICH APPEAR AS A RESULT OF NORMAL USAGE SHALL BE REMEDIED BY THE CONTRACTOR TO THE COMPLETE SATISFACTION OF THE OWNER WITHOUT COST TO THE OWNER.
- 12. CONTRACTOR SHALL KEEP CURRENT A SET OF PLANS FOR THE DURATION OF CONSTRUCTION WITH ALL CHANGES TO WORK NEATLY AND ACCURATELY MARKED IN RED AND SHALL TURN OVER TO OWNER AT COMPLETION OF PROJECT.

13. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MEET SEISMIC REQUIREMENTS OF 2021 IBC.

TYPICAL DEVICE MOUNTING HEIGHT

7

GENERAL LIGHTING NOTES:

- MANUFACTURERS & NUMBERS ARE LISTED TO ESTABLISH QUALITY ONLY AND NOT TO LIMIT COMPETITION. PRIOR TO BIDDING, SUBSTITUTIONS ARE ALLOWED SUBJECT TO SUBMITTAL DATA, PHOTOMETRICS & ENGINEERS APPROVAL AS REQUIRED BY SPECIFICATIONS. "SUBJECT TO APPROVAL" BIDS ARE PROHIBITED.
- 2. ALL FIXTURES TO BE U.L., E.T.L. OR C.S.A. LABELED. ALL EXTERIOR FIXTURES SHALL HAVE WET LABEL OR DAMP LABEL AS REQUIRED BY LOCATION. CONTRACTOR SHALL VERIFY BEFORE SUBMITTING FIXTURE.

4. PROVIDE ALL MOUNTING ACCESSORIES, BAR HANGARS & HARDWARE REQUIRED. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECT'S REFLECTED CEILING PLAN.

3. ALL FIXTURES TO BE PAINTED AFTER FABRICATION.

LIGHTING FIXTURE SCHEDULE							
TYPE	DESCRIPTION	MOUNTING HEIGHT	LAMP	WATTAGE	VOLTAGE		
EM	WALL MOUNTED SPECIFICATION GRADE TWIN-HEAD LED EMERGENCY LIGHT. WHITE FINISH WITH EMERGENCY BATTERY BACKUP.	LITHONIA # ELM2-LED EMERGILITE # EL-2LED LIGHTALARMS # LCA-2LED	ABOVE DOOR	BY MFR.	4 VA	UNIVERSAL	
EMC	CEILING MOUNTED TWIN-HEAD LOW PROFILE CONTOURED EMERGENCY LIGHT. WHITE FINISH WITH EMERGENCY BATTERY BACKUP.	EELP # EM2-LED MAXILUME # ELM-LED-806-W LEGION # EMTFO-W	ATTACHED TO STRUCTURE	BY MFR.	6 VA	UNIVERSAL	
EXM	UNIVERSAL MOUNTED EXIT SIGN COMBO WITH RED LETTERS ON WHITE HOUSING. DIFFUSER LENS, WITH TWIN LED EMERGENCY HEADS.	LITHONIA # LHQM-LED-R EMERGILITE # ELXN400-R-2LED LIGHTALARMS # UQLXN500-R-2LED	ABOVE DOOR	RED LED/ LED HEADS BY MFR	5 VA	UNIVERSAL	
IA	4', LED CHANNEL STRIP LIGHT, STEEL HOUSING, FROSTED ACRYLIC LENS, WHITE FINISH, PAF, 0-10V DIMMING DRIVER	LITHONIA # ZL1D-L48-3000LM-FST-MVOLT-35K-80CRI-WH WILLIAMS # 75R-4-L50/835-(L40)-DIM-UNV COLUMBIA # MPS-4-35-LW-C-W-ED-U	ATTACHED TO STRUCTURE	NOMINAL 4000 LM LED 3500K	34 VA	UNIVERSAL	
WRE	TRAPEZOID EXTERIOR LED SCONCE WITH GASKETED DOORFRAME, TEMPERED GLASS LENS, GLARE SHIELD, FULL CUTTOFF, INTEGRAL COLD WEATHER EMERGENCY BATTERY, DARK BRONZE FINISH, WIDE THROW OPTICS.	LITHONIA # WST LED-P2-40K-VW-MVOLT-E7WC-DDBXD WILLIAMS # VWPV-L30/740-T3-DBZ-SDGL-EM/4W-DIM-UNV HUBBELL # TRP2-24L-30-4K7-3-UNV-DB-CS-EH	9'-0"AFF	NOMINAL 3000 LM LED 4000K	36 VA	UNIVERSAL	

- 3/4", 2-HOLE

CONDUIT STRAP

BURDETTE ENGINEERING, INC. 200 Regent Park Court Greenville, SC 29607 Phone: 864 / 297-8717 Email: bei@burdetteengr.com BEI Job No. 24371A

EXISTING GATE

- EXISTING CHAIN LINK FENCE

EXISTING PRACTICE
 FIELD

PANEL			AB		CA	BINET	SU
VOLTAGE			208Y/120V PHASE 3	WIRI	ES 4 FE	EDER	BO
DEVICE			BRANCH CIRCUIT PHASE L				
AMPS TRIP S S		N O T E S	DESIGNATION	ESIGNATION No.		ØA	
45 A	2		HEATER (FUH-1)	1	3750	1040	
1077	-			3			3
20 A	1		R GARAGE DR OPENER	5			
20 A	1		SPARE	7	0	540	
20 A	1		SPARE	9			
20 A 1			SPARE 11				
INTEGRATED EQUIPMENT RATING		ED IT	10K AIC		5.3	kVA	

Q

SECTIO	DN 260500 — GENERAL PROVISIONS	SECTION 260501 — BASIC MATERIALS
PART 1	I - GENERAL LATED SECTIONS	PART 1 - GENERAL 1.1 RELATED SECTIONS
A.	The provisions of all other sections of Division 1 of these Specifications shall govern the work under this Division or Section the same as if incorporated herein.	 A. Materials specified in this section shall comply with all applicable requirements of SECTION 260500. GENERAL PROVISIONS.
1.2 SC A.	OPE The Contractor shall provide and install complete electrical systems including all conductors, raceways, fittings, protective devices, wiring devices, fixtures, supports, and all miscellaneous hardware necessary. All of the above equipment shall be completely installed and left in proper operating condition. All electrically powered equipment whether furnished by others or by the Contractor shall be wired by the Contractor.	 1.2 SCOPE A. Contractor Furnished. Unless otherwise noted on the drawings, equipment list, or specifications, the Contractor shall furnish and install all materials, devices, and apparatus necessary for the complete electrical system. All materials and equipment shall be of types and manufacturer specified wherever practical. Should materials or equipment so specified be unobtainable, the Contractor shall submit the description and manufacturer's literature, reason for the substitution request and shall secure the approval of the Engineers before substitution of other material or equipment. This specification establishes performance requirements and the quality of equipment accentable for use and shall in restablishes.
с.	devices and equipment as required an indicated on drawings. The Contractor shall furnish and install power, wiring and/or disconnects as shown on drawings for wiring systems for mechanical systems specified in other drawings and specification sections for this project. Temperature control wiring, equipment control and interlock wiring are not included in this	 B. Equal or Equivalent. The term "or equal" and similar terms as used on the drawings or specifications shall be interpreted to mean "equal or equivalent" in the opinion of the Engineers.
1.3 RE	division unless specifically noted in these specifications or shown on the plans. All motor disconnects, starters, combination motor controllers and motor control centers shall be furnished under this division of specifications unless noted otherwise. QUIREMENTS	 C. Manufacturer's Prints. Where the Contractor furnishes equipment other than standard construction items, he shall furnish manufacturer's prints of all such equipment to the Engineers. D. U.L. Listing. All equipment and materials shall be new and conform to the requirements of this specification. All equipment and materials shall be listed by the Underwriter's Laboratories, Inc., and shall bear their label whenever standards have been established and label service is regularly furnis
A.	Field verification of scale on electrical plans is directed since actual locations, distances and levels will be governed by actual field conditions. The contractor shall investigate existing electrical system and verify circuits shown are available. Before final payment, provide the owner with redlined copy of all changes made during the project and labeled "FIELD RECORD DRAWINGS" with date, company and job superintendent. Provide all panels affected by the project with an updated, typed panel schedules reflecting all changes made	All equipment and materials shall be of the best grade of their respective kind for the purpose. PART 2 - PRODUCTS AND EXECUTION 2.1 PANELBOARDS (WHERE INDICATED AS NEW)
B.	In case of conflicts or discrepancies between plans, plans and specifications and/or actual field conditions, Contractor shall notify the Engineer before work is continued. Coordinate with other trades to avoid conflicts.	A. Contractor Furnished. The contractor shall furnish all lighting, service, and power distribution panelboards required. All panelboards shall be of deadfront construction and shall incorporate all switching and protective devices of the type, quantity, number of poles, rating and type specified or shown on the drawings. The drawings and schedules indicate the ampere rating of mains, main brea or disconnect, main lugs, voltage rating, phases, neutral and type of devices and enclosures.
C. D.	Permits, Inspections and Tests - The Contractor shall procure and pay for all permits, fees, inspections, and licenses required. Perform all tests to ensure all systems are in good operating condition. Review of Material; Specific reference in the specification to any article, device, product, material, fixture, form or type of construction by name, make or catalog number, with or without the words "or equal" shall be interpreted as establishing a standard of quality and shall not be construed as limiting.	 Enclosures for panelboards may be flush or surface type as designated on the drawings. B. Doors. Hinged doors covering all switching device handles shall be included in all panel trims, except that panelboards having individual metal clad externally operable deadfront units may be supplied without such doors. Trims for flush panels shall overlap the box by at least 3/4" all around. Surface trims shall have the same width and height as the box. Trims shall be mountable by a screw-driver
E.	competition. Bidders shall base bids on the material specified or on equals receiving approval 10 days prior to Bid Opening. Any increase in the cost of work resulting from substitution of any product specified is part of this contract and shall be accomplished in an approved manner at no extra cost to the Owner.	 C. Directory. A directory holder with glass or heavy plastic plate and metal frame shall be mounted inside of each door with a neatly typed directory properly identifying each circuit as shown on panel schedu drawings.
F.	Substitutions. No substitution will be considered unless written request for approval has been received by the Engineer at least 10 days prior to the date of receipt of bids. Each such request shall include the name of the material or equipment for which it is to be substituted and a complete description of the proposed substitution including drawings, cuts, performance and test data and any other information percessary for an evaluation. A statement setting forth any changes in other materials, equipment or	 D. Nameplate. The contractor shall furnish and install an engraved, laminated plastic nameplate on the trim. The nameplate shall identify the panel by power source designation, panel designation, voltage rating and phase. Nameplate shall be black engraved letters on white background. E. Bus Bars. Bus bars and other conductive parts shall be copper and sized in accordance with
	other Work that incorporation of the substitute would require shall be included; failure to do so does not alleviate the Contractor of his responsibility to make any and all necessary changes required for installation of the approved substitution. The burden of proof of the merit of the proposed substitute is upon the proposer. The Engineer's decision of approval or disapproval of a proposed substitution shall be final.	 Dus bars. Bus bars and other conductive parts shall be copper and sized in accordance with Underwriter's Laboratories standards, full size insulated neutral bars shall be included. Bussing shall braced equal to or greater than the highest rated practice governing short circuit stresses in panelboards. Phase bussing shall be full height without reduction. Cross connectors shall be coppe F. Neutral Bus. Neutral bussing on 3-phase panels shall have a suitable lug for each outgoing feeder
G.	All materials shall be new and of current manufacturer. When more than one of a type of device is used, all shall be by the same manufacturer. All materials shall conform to the grade, quality and standards of those specified.	 requiring a neutral connection. G. Ground Bus. All panels shall be furnished with a bare equipment ground bus. H. Circuit Numbering. Panelboard circuit numbering shall be such that starting at the top, odd numbers shall be used in sequence down the left-band side and even numbers shall be used in sequence down.
11.	 project name and identifying symbol from plans. Shop Drawings required are as follows: Lighting Fixtures Wiring Devices Panelboards Motor Starters 	 I. Terminals. Terminals for feeder conductors to the panelboard mains and neutral shall be U.L. listed suitable for type of conductor specified. Terminals for branch circuit wiring, both breaker and neutral shall be U.L. listed as suitable for the type of conductor specified.
I.	5. Seismic Supports Interferences - The drawings are generally diagrammatic in nature, and accordingly the Contractor shall coordinate his work with that of all other trades to avoid interferences. The Contractor shall examine the complete set of drawings and specifications for the job before installation of electrical work, coordinating locations and routings with other trades to avoid interferences. Work installed by the Contractor which	 J. 277/480V Panels. All lighting/service panels rated 277/480 volt, shall be equal to Square D Compar Type NF equipped with bolt-on branch breakers the type and rating specified on the drawings. K. 120/208V Panels. All lighting/service panels rated 120/208 volt, shall be equal to Square D Compan Type NQOD equipped with bolt-on branch breakers of the type and rating specified on the drawings.
J.	does interfere with another trade shall be removed and reinstalled at the Contractor's expense when directed by the Architect. Workmanship shall be of the highest quality and all work shall be done by workmen skilled in the trades involved.	L. Panels and Panelboards are designed around Square D equipment. Acceptable alternate manufacturers are Cutler-Hammer, Siemens, and General Electric Company. All alternate or substitution requests shall meet all performance requirements of specified equipment, as well as spa and dimension requirements noted on drawings.
K. PART 2	The Contractor shall guarantee all work under this contract for one year and shall be responsible for the maintenance of all electrical equipment furnished and installed under this contract, excluding lamp replacement, for a period of one year from the date of substantial completion.	2.2 CIRCUIT BREAKERSA. Contractor Furnished. The contractor will provide breakers unless specifically designated to be "Own Furnished" on the drawings, equipment list, or within the specifications.
NOT US PART 3 3.1 AP	SED 3 - EXECUTION PLICABLE CODES AND STANDARDS	 B. As Specified. Breakers shall be of the type, rating, number of poles, size, and interrupting capacity, specified or required for the environment, location, application, and load served. C. Molded Case Circuit Breakers. Molded case circuit breakers shall be circuit interrupting devices white will operate both manually for normal switching functions and automatically under overload and short discuss the application of the provide size of the provide structure of the provid
issi	 Whe materials and instantion shall conform to the minimum requirements and latest outstanding ues and revisions of the following codes, standards, and regulations wherein they apply: NFPA No. 70, National Electrical Code, (2020 edition). IBC (2021), IECC (2009), IFC (2021) American National Standard, National Electrical Safety Code. Applicable Publications of NEMA, ANSI, IEEE and IPCEA. Underwriter's Laboratories, Inc. Standards City, State and Local Codes and Regulations having jurisdiction. 	 D. Rating. The molded case circuit breakers shall be rated for fault duty as specified on the plans. Serie ratings are not allowed. The Contractor shall verify available fault current with the Utility Company for actual installation and forward to the Engineer.
END O	OSHA requirements. ADA requirements. F SECTION 260500	
_		
-		

 $\overline{}$

1	1	5	I		6	I	
2.3	SA	FETY SWITCHES				SECTI	ON 260519 - CONE
	A.	Contractor Furnished. The contractor shall pr switches shall be of the type, voltage, ampere	rovide all safety disco e, and horsepower ra	onnect switch ating, number	nes required. The of poles, fusible or	PART	1 - GENERAL
	Б	nontusible, as specified or required for the en	vironment, location, a	application, a	ind load served.	1.1 RE	LATED SECTIONS
	В.	Description. All safety switches shall be NEMA premium heavy duty, horsepower rated, industrial type, and shall be Underwriters' Laboratories listed. Fusible switches shall be complete with fuses of the type and rating specified (refer to paragraph "Fuses") and as indicated on the drawings or within these				A.	general provisions
		door is open and shall be of dead front constr unick-make guick-break type. The door shall	uction with arc suppl	ressors. The	mechanism shall be with the bandle or	1.2 30	This specification
		mechanism to prevent unauthorized opening provided for padlocking in the OFF position w	of the door in ON po ith one or more locks	sition. Pad-los or lockable	bocking provisions shall be hasps. Grounded	,	electrical systems
		switches in a common enclosure shall be more mounted switches shall be mounted in enclose on the drawings.	unted in enclosure ty ures suitable for the	pes specified location and	d elsewhere. Individually environment as specified	B.	Wire and cable wi cable is not to be
	C.	Nameplate. All switches shall be provided wir power source (Unit No. or other), and title of e background.	th an engraved lamir equipment served. N	nated phenol lameplates to	c nameplate showing the b be black letters on white	C.	All cable is to be " deviations anticipa contained herein.
	D.	Manufacturer and Enclosures. All switches fu	ırnished shall have e	enclosures as	specified on the	PART	2 - PRODUCTS
		drawings. Acceptable manufacturers shall be Hammer.	e Square D, General	Electric, Sier	nens, and Cutler-	2.1 M/	ATERIALS
2.4	FL	ISES				A.	All wire and cable all wire and cable Certification.
	A.	Contractor Furnished. The contractor shall further that are furnished by the contractor.	types shall be used	es in all tusibl	e devices and equipment	B.	Grounding conduct shall be colored s
	Б.	following are trade names of the Bussman Ma Chase Shawmut Division shall be acceptable	anufacturing Division	i, however, e	quivalent products by	C.	For all circuits 600 75 degrees c., we thickness shall be
		Application	Trade Names	Class	Voltage (Type)	 D.	Conductor sizes a
		Motors, Transformers & Miscellaneous Equipment 0-600 Amps	Fusetron	K-5 K-5	240 (FRN) 600 (FRS)		annealed copper conductors shall t receptacle branch
		Panelboard Feeders & Service Disconnects 0-600 Amps	Low Peak Low Peak	RK-5 RK-5	240 (LPN-R) 600 (LPS-R)	PART	3 - EXECUTION
		Panelboard Feeders & Service	HI-CAP	L	600 (KRP-C)	3.1 IN	ISTALLATION
2.5	MIS	SCELLANEOUS CONTROL DEVICES				A.	Separation of usa on the drawings. shown on drawing
	A.	Furnished by Others. Miscellaneous control of thermostats and temperature control devices, another division. Any such device that is to b designated on the drawings.	devices such as duct and similar equipme e furnished under thi	t switches, ai ent shall norr is division sh	r flow switches, nally be furnished under all be specifically	B.	particular motor c Pulling. Where m having inert qualit
	В.	Enclosures. All devices furnished shall be su	itable for the control	requirements	s and shall have voltage		matter before con
		location and environment as indicated on the	drawings.			3.2 ID	ENTIFICATION
2.6	RE	CEPTACLES – OUTLETS				A.	Wire, cable, racev
	A.	Contractor Furnished. The contractor shall fur receptacles and outlets shown on the drawing specified shall be provided and the installation described elsewhere in this specification. See Contractor shall install devices of the color and	rnish and install all c gs. Suitable boxes, c n shall conform to typ e electrical symbol d d type specified on r	convenience covers and m pical details, rawings for a plans	(and power type) hatching plugs as drawings, and as dditional descriptive data.	B.	Circuit identification laminating marker shown on the plan Phase identification
	В.	Single Manufacturer. Receptacles of similar	usage and rating sha	all be those o	f a single manufacturer.	0.	practical in all elec
	C.	Usage and Manufacturer. General use and c	onvenience outlets s	shall be as sp	ecified by symbol on the		
	D.	drawings and as listed on the symbols drawin Ground Fault Protection. Note that all conver	g. nience receptacles to	be installed	as ground fault		position occupied
27	PC	GFCI type.	Il outlets located with	nin 72" of sinl	k or water source shall be		color code: 208/ 480/2
2.1	Δ	Contractor Furnished. The contractor shall fu	rnish and install all e	ectrical hox	es required for the proper	3.3 SI	PLICES AND TERM
	7	installation of the electrical systems. Boxes s shall be installed as specified on the drawings applicable sections of this specification for wir	hall be of the NEMA and as described u ring devices such as	type suitable nder "Wiring switches, re	e for the location. Boxes Methods", and other ceptacles, and similar	A.	Lighting conducto only, such as 3M taped to prevent e
	Р	devices. In order to maintain fire ratings, box in the same space between studs, but shall he	es installed "back-to- ave a stud located b	-back" in fire etween them	walls shall not be located	B.	Power conductors explicit instruction
	D.	galvanized or cadmium plated sheet steel of r National Electrical Code and shall be furnishe	not less than the min	imum size as	s recommended in the	3.4 Ll	JGS
		sections of these specifications or on the drav purposes.	vings. All boxes sha	Ill be accessi	ble for maintenance	A. B.	All lugs shall be fu
	C.	Exact locations of all floor boxes shall be coordimensions are shown on the drawings.	rdinated in the field w	vith the archi	ect unless specific		type lugs. Lugs fo series. Size 2/0 a to match motor lea
	D.	Surface Mounted. Fixture, outlet, and switch where noted on the plans.	boxes installed surfa	ace mounted	shall only be installed	C.	Where motor lead shall be used. Sp
	E.	Pull Boxes. Pull boxes for interior, or outdoor required to facilitate the installation of the wirin shall be accessible for maintenance use.	exposed power wirin ng. Pull boxes shall	ng shall be p not be locate	rovided where shown or d in finished rooms and	D.	The proper lugs w lugs shall be furni panelboards. If a
	F.	Exterior and Underground. For exterior expos	sed work, pull boxes	shall be of N	EMA 3R construction.	0 F -	shall replace them
2.8	CO A.	Contractor Furnished. The contractor shall fu fittings, panels, cabinets, switches. receptacle	rnish and install the es, and similar wiring	appropriate o	over on all boxes, conduit other equipment that is	3.5 T/ A.	APING All voids, sharp co before applying th
2.9	EN	Contractor furnished. Conduit outlet fitting co	vers shall be the typ	e specified u	nder "Conduit Fittings."	B.	before taping. Du Joints and other s be neatly done an
1					1 I I I I I I I I I I I I I I I I I I I	1	

A. Enclosures and housings for all Contractor furnished electrical equipment and devices shall be suitable for the location and environmental conditions and shall be of NEMA type as shown on symbol sheet drawing.

END OF SECTION 260501

DUCTORS

ied in this section shall comply with all applicable requirements of section 260500,

- n covers the requirements for all wire and cable to be used in the installation of the s for the project, including all power, lighting, control and instrumentation systems. will normally be furnished by the contractor for installation. Drawings will indicate wher
- e furnished. "contractor-furnished", the contractor shall submit for approval by the owner any pated or proposed with respect to the cable manufacturer, cable type, or specification
- e shall be Underwriters' Laboratories (UL) listed. In addition to other standard labeling e shall be marked UL on the outer surface indicating Underwriters' Laboratories, inc.
- uctors, where insulated, shall be colored solid green. Conductors intended as a neutr solid white.
- 00 volt and less, wires and cables shall have code grade, 600 volt type THWN-THHN wet or dry locations, moisture and heat resistant thermoplastic insulation. Insulation e per national electrical code, table 310-13.
- are expressed in American wire gage (awg) or in circular mils. Conductors shall be er wire, minimum size #12 awg, except that #14 awg may be used for control. All be stranded except that solid conductors may be used for #12 awg lighting and h circuits.
- age. Lighting and power wiring shall be routed in conduits, or other raceways as show Lighting and power wiring shall not be routed in a common raceway except where ings. Push-button wiring shall be routed in separate raceways even though related to a ircuit.
- nechanical assistance is used for pulling conductors, patented wire pulling compound lities that do not harm the wire insulation or covering shall be applied to the conductor d into raceways. Interior of all raceways shall be free from grease, filings or foreign onductors are pulled in.
- ways, and conduits. tion numbers shall be placed on each end of the conductor involved by using selfer tags, T&B Company E-Z code type WSL or equal. Circuit numbers shall be as an and panel schedule drawings.
- ation. Phase sequence throughout the installation shall be standardized wherever ectrical power equipment as follows:

		phase a	phase b	phase c
position occ	cupied	front top left	center center center	rear bottom right
color code:	208/120v, 3-phase 480/277v, 3-phase	black brown	red orange	blue yellow

- MINATIONS
- tors. Splices in lighting conductors shall be made with splicing caps with metal inserts Company's "Scotchlock" spring connectors. The splices shall be firmly and neatly entry of moisture.
- rs shall be continuous from outlet to outlet. No power cable shall be spliced except or ons of the owner's representative.
- furnished and installed by the contractor where required.
- power wiring, sizes no. 12 and no. 10 awg, shall be T&B "Sta-Kon" uninsulated ring for copper power wiring from no. 10 awg to size 1/0 awg shall be T&B 1-hole type 541 awg and larger lugs shall be 2-hole type 54200 series (except where 1-hole is require ead lugs). Sizes above 1/0 are to be applied using hydraulic pump tool.
- ads are furnished without lugs, T&B 54500 series 2-way connectors (splicing sleeves) plice sleeves may be desirable where limited space for termination exists.
- will normally be furnished with equipment in all owner-furnished equipment. All other ished and installed by the contractor. No mechanical type lugs shall be used except i any mechanical type lugs are furnished with owner-furnished equipment, the contracto em with proper compression type lugs where practical.
- corners and bolt projections shall be made smooth by filling with okonite or scotch fill the laps of tape required for insulation. All loose strands of wire shall be removed uxseal will not be permitted.
- sections of wiring requiring tape shall be half lap and at least two layers. Taping shal and shall form a permanent insulation equal in mechanical and electrical strength to the insulation of the conductor. Taping shall be as follows: 600 volt insulation - a minimum of 1-1/2 lap layer varnished cambric and 2-1/2 lap layers of 3M no 33 vinyl plastic electrical tape.

C. All taping, splicing and termination materials shall be furnished by the contractor.

END OF SECTION 260519

SECTION 260526 — GROUNDING

PART 1 - GENERAL

1.1 RELATED SECTIONS

- A. Materials specified in this Section shall comply with all applicable requirements of SECTION 260500, GENERAL PROVISIONS.
- 1.2 WORK INCLUDES

A. As Required By the NEC. In general, fixtures, outlets, the enclosing cases, mounting frames, etc., of all switches, circuit breakers, control panels, motors and any other electrically operated or electrical equipment, conduit, trays, and other raceways shall be effectively and permanently grounded with a separate copper grounding conductor of cross-section as required by the National Electrical Code and drawings. It shall be of capacity sufficient to insure continuity and continued effectiveness of the ground connections to carry fault currents. Ground conductors must be as short and straight as possible, protected from mechanical injury and if practicable without splice or joint. The grounding conductor shall be run from a ground established at the source of supply to the equipment to be grounded. Ground wires from below grade shall be protected by galvanized conduit and the conductor shall be bonded via a listed fitting to conduit sleeve on each end. All grounding conductors shall be copper. PART 2 - PRODUCTS

NOT USED

PART 3 - EXECUTION 3.1 INSTALLATION

- A. Power Conductors Supplying Equipment. A copper grounding conductor must be run inside the conduit or raceway, enclosing the power conductors supplying the equipment, or in case of a multi-conductor power cable, must be located within the sheath.
- B. Connect at Source. Ground conductors in power cable or ground wire in conduits shall always be connected directly to station ground at the source end, and to motor frame or equipment enclosure and/or equipment ground bar.
- C. System Neutral. The equipment grounding conductor in all circuits shall be connected to the frame and ground lug in the panelboards and not the neutral bus. Equipment ground connections to a system neutral are not permitted.
- D. Fuses. In all cases of grounded circuits, fuses must be omitted from the grounded neutral conductor throughout the entire installation.
- E. Equipment Frames. Frames of all electrical apparatus will be connected to the grounding system. Neutrals of service transformers shall be connected to the grounding system.
- F. Metallic Raceways. All metallic conduits and wiring channels must be connected at each end to the grounding conductor with a good electrical contact.
- G. Identification. The grounding conductor shall be stranded and covered with a green jacket. H. In all cases the white wire should be used for the current-carrying neutral only and never as a grounding
- conductor, or other purpose. I. Ground Rods. Where specified on drawings, grounding connections to earth shall be made with 5/8" diameter (minimum) copper-clad steel exten-type ground rods a minimum of 8 feet long, or depth as indicated.

END OF SECTION 260526

	9 1	1 1
	SECTION 260539 — ELECTRICAL RACEWAYS	SECTION 265100 — LIGHTING
	PART 1 - GENERAL	PART 1 - GENERAL
	1.1 RELATED SECTIONS	1.1 RELATED SECTIONS
	A. Materials specified in this Section shall comply with all applicable requirements of SECTION 260500, GENERAL PROVISIONS.	A. Materials specified in this Section shall comply with all applicable requirements of SECTION 260500, GENERAL PROVISIONS.
		1.2 WORK INCLUDED
	 A. Contractor Furnished. The contractor shall provide all conduit, fittings, and supports required and not otherwise shown on plans as furnished by others. B. The types of electrical raceways required for the project include the following: 	A. Contractor Furnished. The Contractor shall furnish, install and wire all lighting fixtures and the complete lighting system as shown on the drawings. The contractor shall furnish all appropriate mounting hardware as required for installation of the fixtures in the various ceiling types. The contractor shall
ere	Electrical Metallic Tubing Intermediate Metal Conduit S. Flexible Metal Conduit	coordinate the various ceiling types with the architect's reflected ceiling plan and construction details. fixtures shall be the type and manufacturer specified, with UL label.
n	 Liquid-Tight Flexible Metal Conduit Rigid Galvanized Conduit PVC Rigid Conduit 	B. Contractor Work for Relocated Fixtures. The contractor shall disconnect all existing fixtures indicated be relocated, remove them from the ceiling and store in a safe and protected area for installation in ne location. Fixtures shall be cleaned and re-lamped before being installed in new location. All relocated fixtures shall have new seismic slack wires provided and installed by contractor per Seismic Previous the standard of the standard standard.
	conduit shall be minimum 3/4".	C Typical Details Drawings and Symbols. The Contractor shall install lighting fixtures complete with
ng,	D. Product Delivery, Storage, and Handling. Contractor is to provide color-coded end-cap thread protectors and handle conduit and tubing carefully to prevent damage. Store pipe and tubing inside whenever possible. When necessary to store outdoors, elevate well above grade and enclose with durable, watertight wrapping.	lamps and as shown on drawings. Refer to symbol drawings for additional descriptive and installation data. The Contractor shall check the location of all fixtures in relation to the structure and the work of other crafts and shall obtain approval of the Owner's representative to relocate fixtures, if required, to avoid interferences.
tral	PART 2 - PRODUCTS	PART 2 - PRODUCTS
J	2.1 MATERIALS AND COMPONENTS	2.1 WIRING DEVICES
Ν,	A. Electrical Metallic Tubing. Galvanized, thin wall tubing, fittings shall be hex-nut, expansion gland type, zinc plated, and U.L. listed as "raintight." No crimp, spring, or set-screw type fittings will be accepted.	A. Wiring Devices. All wall switches for lighting shall be those of a single manufacturer and shall be as specified by the symbol on the drawings and as listed on the symbols drawings.
	B. Intermediate Metal Conduit. Galvanized steel tubing, with zinc coated interior.	2.2 LIGHTING FIXTURES
	C. Flexible Metal Conduit. Galvanized single steel strip, flexible, interlocked.	A. All lighting fixtures shall be as specified on the fixture schedule on the drawings.
	D. Liquid-Tight Flexible Metal Conduit. Galvanized single steel strip, flexible, interlocked, double wrapped, with liquid-tight PVC jacket.	B. All LED fixtures shall be provided complete with driver, housing, and diffusers/reflectors as indicated or plans.
	E. Rigid Galvanized Conduit. Rigid steel, hot-dipped galvanized conduit.	C. Substitutions: The following manufacturers acceptable manufacturers for the types of fixtures specific on the drawings. If proper grade fixtures is not provided fixtures will be required to be replaced with
own	F. PVC Rigid Conduit: U.L. listed Schedule 40 heavy wall rigid conduit.	correct fixtures.
а	G. Conduit, tubing and duct accessories including straps, hangers, expansion and deflection fittings as recommended by conduit, tubing, and duct manufacturers.	Emergency and Exit Lighting Lithonia
ds	PART 3 - EXECUTION	Emergilite Sure Lites
rs	3.1 APPLICATION	LiteAlarms Chloride
	A. Electrical Metallic Tubing. Branch circuits run in hollow dry walls and above ceilings. Not to be	PART 3 - EXECUTION
	exposed. B. Flexible Metal Conduit. Connection of motors and for other electrical equipment where subject to	3.1 FIXTURE OUTLETS
	movement and vibration and located in a dry, interior location. Flexible conduit is not to exceed 60" in length for any one application and shall be secured at each end and per code.	A. Fixture outlets shall be installed in the locations shown on the drawings. The Contractor shall study the general building plans in relation to the spaces surrounding each outlet in order that his work may fit the other work required, as well as the work of other trades. When necessary, the Contractor shall relocated as the work of other trades. When necessary, the Contractor shall relocated as the work of other trades. When necessary, the Contractor shall relocated as the work of other trades.
	C. Liquid-tight Flexible Metal Conduit. Connection of motors and for other electrical equipment where subject to movement and vibration, and also subjected to one or more of the following conditions:	outlets so that when fixtures or other fittings are installed, they will be symmetrically located according room layout and will not interfere with other work or equipment.
	Exterior location; moist or humid atmosphere where condensate can be expected to accumulate; corrosive atmosphere; subjected to water spray; subjected to dripping oil, grease or water. Flexible	3.2 LIGHTING SWITCHES
	conduit is not to exceed 60" in length for any one application and shall be secured at each end and per code.	A. Lighting Switches. The Contractor shall furnish and install all lighting switches shown on the drawings
	D. Metal Clad Cable Assemblies. Metal Clad Cable Assemblies (Type AC or MC) shall only be installed when allowed on plans. When installed, assemblies shall be installed in a neat and workmanlike manner, secured to structure per NEC, routed parallel and perpendicular to building walls and structure, and grouped together as much as practical.	for flush or surface mounting as specified under "Boxes". The appropriate coverplates as specified under "Covers" shall be installed. Switch mounting shall be as described on the symbol drawings and described elsewhere in this specification.
	 E. Intermediate Metal Conduit. All conduits of 2" nominal trade size or more and/or where exposed. Not to be stubbed up at floor level. 	B. Local Switches. Local switches shall be located on the strike side of the doors, keeping approximatel 3" away from the door trim or corner, wherever possible. Switch handles shall be set to operate vertically; wall receptacles shall be set with the long dimension vertical where possible. Switches switches are the set with the long dimension vertical where possible. Switches are the set with the long dimension vertical where possible. Switches are the set of the set with the long dimension vertical where possible. Switches are the set of t
S	F. Rigid Galvanized. Where specified on plans for certain underground or exposed runs, or where stubbed up at floor level.	C. Neutral Conductor. The neutral conductor of lighting systems shall be of the same size as the phase
on	G. Rigid PVC. Where specified on plans for certain underground runs, UL approved Schedule 40 heavy wall rigid PVC conduit shall be used. Not to be stubbed up at floor level. All PVC underground runs shall transition to rigid galvanized before stubbing up through floor slab or grade.	conductors. On three and four wire systems the load shall be divided as evenly as possible on each "outside" or phase conductor. Neutral conductors shall be identified throughout by using a white or gr (as specified in "Color Code" section) insulated wire. A green ground wire shall be run in raceway to ground all lighting fixtures, receptacles, boxes and wiring devices.
	3.2 INSTALLATION	3.3 FINAL INSPECTIONS
	A. Install conduit and tubing in accordance with NEC and National Electrical Contractors Association's "Standard of Installation", and with recognized industry practices. Where NECA and NEC standards differ, use the more stringent requirement.	A. At the conclusion of the job, the Contractor shall see to it that all fixtures are cleaned, lamped and in good operating condition. Upon final inspection all covers shall be installed.
100	B. Complete the installation of raceways before starting installation of wires.	END OF SECTION 265100
eu	C. Wherever possible, install horizontal raceway runs above water and steam piping.	
)	D. Care shall be taken to keep the interior of conduits clean, and each conduit run shall be thoroughly cleaned and dried before any cable is pulled through.	
r t in tor	E. Unless indicated otherwise on drawings, all exposed conduits shall be run parallel with or perpendicular to building structural members.	
101	F. Conduits entering sheet metal enclosures shall be made up with double locknut and insulating bushing. Locknut shall be of the type which will bite into the metal of the box.	
	G. Conduits entering threaded openings in equipment enclosures, boxes, etc., shall have at least five full threads engaged. In outdoor and underground locations, threaded joints shall be made up with a thin application of conducting joint compound. The inside of the fitting shall be thoroughly cleaned of any excess compound.	
all he	H. Power operated bending machines shall be used on conduits 1-1/4" and larger. Heating with torches will not be permitted.	
0.	I. All conduit runs shall be continuous from outlet to outlet with all joints and connections pulled tight to insure an electrically continuous and mechanically secure raceway system.	
	J. All raceways in "finished areas" such as offices, corridors, etc., shall be concealed.	
	3.3 CONDUIT AND TRAY OPENINGS	
-	A Contractor's Despensibility. The Contractor shall be responsible for all cleaves and enspines through	

- Contractor's Responsibility. The Contractor shall be responsible for all sleeves and openings through walls and floors necessary for passage of electrical conduits and raceways. Where contractor must provide openings and/or drill concrete floors and/or walls, he shall be responsible for the repair of these openings. Structural members and reinforcing shall not be cut, burned or damaged in any way. All openings in walls and floors, and under switchgear and panels where electrical cables and conduits are installed, shall be closed up by the Contractor to prevent dust, dirt and water from entering.
- B. Sealing. The Contractor shall be responsible for sealing all wall and floor openings and all floor and wall sleeve openings utilized by the contractor whether furnished by Others or by the Contractor. C. Sleeves and openings shall be sealed with materials that will withstand fire and heat to the same rating

as the wall, floor, or ceiling through which the conduit or tray passes and shall not be less than a 30minute barrier.

END OF SECTION 260539

