OSE CERTIFICATIONS

The following code tables and certifications are based on the most current codes adopted by OSE shown in Chapter 5 of this manual. These tables and certifications are to be included on the Construction Drawings AS-IS. Do not re-create these in another format or medium. Please contact OSE if you need assistance.

ZONING CERTIFICATION

"I hereby certify that, to the best of my knowledge, these plans comply with applicable zoning ordinances, and that plans have been submitted to appropriate authority for their review and/or approval."

Signed: _____ _____
Architect/Engineer Date:

If the project does not require a National Pollution Discharge Elimination System (NPDES) permit from SCDHEC, include the following certification on the Site Plan(s).

EROSION AND SEDIMENT REDUCTION/STORMWATER MANAGEMENT

Designer's Certification:

"I hereby certify that the measures in this plan are designed to control erosion, retain sediment on the site, and manage stormwater in a manner that neither any on-site nor off-site damage or problem is caused or increased, that all structural measures are designed to the minimum standards for health and safety, and that all the provisions of the plan are in compliance with the Regulations contained in Chapter 72, Article 2, SC Code of Regulations (Erosion and Sediment Reduction and Stormwater Management Regulations)."

Signed: _____ _____
Engineer or Registered Landscape Architect (Circle one) Date

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TABLE 1 FLOOD HAZARD INFORMATION & FLOOD LOADS

FLOOD HAZARD AREA

Flood Map Information: Flood Zone: X Community Number: 450187C
Is the Project Site at a 100-Year Flood Plain? Yes ☐ No ☑ Panel Number: 0040K
Base Flood Elevation _____ MSL NGVD or NAVD
Design Flood Elevation _____ MSL IBC 1612.3 and ASCE 24

NON HIGH-VELOCITY WAVE ACTION

Elevation of Lowest Proposed Floor _____ MSL Meet ASCE 24 Section 2.6.2.1/ 3.6.2.2
Dry floodproofing Yes ☐ No ☐ per ASCE 24

HIGH-VELOCITY WAVE ACTION

Elevation of bottom of Lowest Horizontal Structural Member of lowest floor _____ MSL
Flotation resistant Yes ☐ No ☐ per ASCE 24
Breakaway wall Yes ☐ No ☐ per ASCE 24

IBC 1612 and SE-510, as applicable

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TABLE 2 SOILS & SITE

SOILS INVESTIGATION (If required)	Yes ☒ No ☐	per IBC 1803.2
SOILS CLASSIFICATION		
Site Class	D	per IBC 1613.3.2
Classes Soil of Materials (USCS System)	CL/ML/SM	per IBC 1803.5.1
Allowable Footing Bearing Pressure	3500 psf	
MINIMUM DESIGN SOIL BEARING LOAD	3500 psf	per IBC table 1806.2
COMPACTION		
Subgrade: 100 Percent	☒ASTM D698 ☐ASTM D1557 ☐AASHTO (only for paving & roads)	
Base: 95 Percent	☒ASTM D698 ☐ASTM D1557 ☐AASHTO (only for paving & roads)	
Other: _____ Percent	☐ASTM D698 ☐ASTM D1557 ☐AASHTO* (only for paving & roads)	
MINIMUM DESIGN SOIL LATERAL LOAD	100 psf	per IBC 1610.1
FOOTINGS		
Undisturbed footings	Yes ☐ No ☒	
Compacted Fill Material	Yes ☒ No ☐	per IBC 1804.6
ELEVATIONS		
Elevation of Water Table:	855 MSL	
Elevation of lowest footing:	868 MSL	
Elevation of lowest floor or basement:	896 MSL	

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NOTE: Where a fire wall is necessary to separate buildings, each building is to be provided individual code criteria tables 3 through 14. See IBC 503.1.2.

TABLE 3 BASIC BUILDING CODE INFORMATION

CONSTRUCTION CLASSIFICATION	Type: V-B (IBC 602)	
OCCUPANCY CLASSIFICATION (Indicate all) (Note IBC 508.2)	A-3 Assembly (IBC 303)	
MOST RESTRICTIVE OCCUPANCY CLASSIFICATION	A-3 (IBC Tables 508.4)	
Does building require Incidental Use Area Separation?	Yes ☐ No ☒ (IBC 508.2)	
Does building have Accessory Occupancy (ies)? If so, what percent of story is Accessory Occupancy?	Yes ☒ No ☐ (IBC 508.2)	393 SF 19 %
Mixed Occupancy	Yes ☐ No ☒ (IBC 508)	
Non-separated	Yes ☐ No ☒ (IBC 508.3)	
Separated	Yes ☐ No ☒ (IBC 506.2.2) (IBC 506.2.4) (IBC 508.4)	
2-way Communication Required	Yes ☐ No ☒ (IBC 1009.8) (IBC 1009.6.3)	
Fire Apparatus Access and Water Line	Yes ☐ No ☒ (IFC 503 & 507)	

OTHER FIRE PROTECTION SYSTEMS, DEVICES or FEATURES

If the building has any special or notable fire protection or safety feature or hazard the designers should list them here, describe the performance characteristics and refer to locations in construction documents. (e.g. fire extinguishers, smoke-evacuation/control/compartments. Note IBC 414.4.1.)

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TABLE 4 BUILDING AREA

AREA LIMIT BY TABLE 506.2 OF IBC	9,000 SF (Gross floor/mezzanine per story)	
AREA INCREASES BY SECTION 506.2 AND 506.3 OF IBC	0 SF	
EXPLANATION OF INCREASES: N/A	(Unsprinklered modified from per story)	
AREA AS ALLOWED IN IBC PER STORY		
Story/Level: First Floor	9,000 SF (gross per story)	
Story/Level: _____	_____ SF (gross per story)	
Story/Level: _____	_____ SF (gross per story)	
Story/Level: _____	_____ SF (gross per story)	
TOTAL ALLOWED AREA OF BUILDING (summation of all stories)	9,000 SF	
AREA AS DESIGNED PER STORY		
Story/Level: First Floor	1,913 SF (gross per story)	
Story/Level: _____	_____ SF (gross per story)	
Story/Level: _____	_____ SF (gross per story)	
Story/Level: _____	_____ SF (gross per story)	
TOTAL DESIGNED AREA OF BUILDING (summary of all stories)	1,913 SF	

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TABLE 5 BUILDING HEIGHT

	AS DESIGNED		AS ALLOWED BY IBC	
	In Feet	In Stories	In Feet	In Stories
PER TABLE 504.3	26	N/A	40	N/A
PER TABLE 504.4	N/A	1	N/A	2
TOTAL HEIGHT (including any Allowable Increase)	26	1	40	2

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TABLE 6 BUILDING DESIGN OCCUPANT LOAD

STORY-LEVEL	FUNCTION OF SPACE[15]	A FLOOR AREA[19] (NSF or GSF)	B MAX AREA ALLOWED PER OCCUPANT[20] (NSF or GSF)	C OCCUPANTS ON FLOOR FOR THIS FUNCTION[16]	D DESIGN OCCUPANT LOAD[16]
1	Business Areas	1888	150 GSF	11	
	Accessory Storage Areas	383	300 GSF	2	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	Subtotal Design Occupant Load for This Story				13
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	Subtotal Design Occupant Load for This Story				_____
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	Subtotal Design Occupant Load for This Story				_____
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	_____	_____	_____	_____	
	Subtotal Design Occupant Load for This Story				_____
	TOTAL BUILDING DESIGN OCCUPANT LOAD				13[26]

FOOTNOTES:
1. Use the nomenclature in the Functions of Space column of Table 1004.5 of the IBC[15].
2. Gross Area per occupant is used if this function is not listed in either Gross (GSF) or Net (NSF) Square Footage[19].
3. Design Occupant Load per occupant is as given in Table 1004.5 of the IBC[16].
4. Occupant Load is to be rounded up to the next whole person[26].
5. Subtotal Occupant Load is the sum of all Occupant Loads for each Story[27].
6. Total Design Occupant Load is the sum of all Column D values[28].

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TABLE 7 GENERAL FIRE PROTECTION REQUIREMENTS

SEPARATIONS			
Firestopping Required	Yes ☐	No ☒	per IBC Section 718
Draftstopping Required	Yes ☐	No ☒	per IBC Section 718
Smoke Control System Required	Yes ☐	No ☒	per IBC Section 909
Smoke Barriers Required	Yes ☐	No ☒	per IBC Section 407 and 408
Smoke Partitions Required	Yes ☐	No ☒	per IBC Section 407
Fire Partition Required	Yes ☐	No ☒	per IBC Section 708
Fire Barrier Required	Yes ☐	No ☒	per IBC Section 707
ALARM & DETECTION			
Fire Alarm System Required	Yes ☐	No ☒	per IFC Section 907
Emergency Voice Alarm Communications System Required	Yes ☐	No ☒	per IFC Section 907.5.2.2
Emergency Alarm System Required	Yes ☐	No ☒	per IFC Section 908
SUPPRESSION			
Standpipes Required	Yes ☐	No ☒	per IFC Section 905
Sprinklers Required	Yes ☐	No ☒	per IFC Section 903
Sprinklers Provided	Yes ☐	No ☐	_____
Portable extinguishers required	Yes ☒	No ☐	per IFC 906
Other suppression systems required	Yes ☐	No ☐	per IFC 904
Smoke & heat vents required	Yes ☐	No ☐	per IFC 910

OTHER: *(Indicate other provided fire and life safety features not listed above, if any)*

TABLE 8 FIRE RESISTANCE RATING OF BUILDING ELEMENTS

BUILDING ELEMENT	RATING AS REQUIRED (in hours)	RATING AS DESIGNED (in hours)	TESTING AGENCY & DESIGN NO. (UL, FM, etc)	DESIGNERS WALL/PARTITION KEY CODE
Primary Structural Frame (per IBC Table 601)	0 HR	0 HR	N/A	
Bearing Walls Exterior	0 HR	0 HR	N/A	N/A
Interior (per IBC Table 601)	0 HR	0 HR	N/A	N/A
Nonbearing Walls & Partitions Exterior	0 HR	0 HR	N/A	N/A
Interior (per IBC Table 601 & 602) Note footnote "d" from Table 601.	0 HR	0 HR	N/A	N/A
Floor Construction including supporting beams & joists (per IBC Table 601)	0 HR	0 HR	N/A	
Roof Construction including supporting beams & joists (per IBC Table 601)	0 HR	0 HR	N/A	
Fire Walls (per IBC Section 706)	N/A	N/A	N/A	N/A
Fire Barriers (per IBC Section 707)	N/A	N/A	N/A	N/A
Shaft Enclosures (per IBC Section 713)	N/A	N/A	N/A	N/A
Fire Partitions (per IBC Section 708)	N/A	N/A	N/A	N/A
Opening & Protective Lining by: Category (fire shutters, doors, etc. per IBC Section 716)	N/A	N/A	N/A	N/A
Others (as required by Designer)	N/A	N/A	N/A	N/A

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TABLE 9 STRUCTURAL DESIGN INFORMATION

RISK CATEGORY: 2 IBC Table 1604.5

LIVE LOADS

Floor Live Load(s) - List the F_a for each occupancy/use.
Occupancy/Use: PUBLIC ROOMS AND CORRIDORS SERVING THEM F_a = PSF
Occupancy/Use: F_a = PSF
Occupancy/Use: F_a =
Occupancy/Use: F_a =
Roof Live Load F_a = 20 PSF IBC Table 1607.1 or ASCE 7
Ground Snow Load p_g = 10 PSF IBC Eq. 7.7-1, 7.10-1 or ASCE 7

WIND LOADS

Analysis Procedure: DIRECTIONAL PROCEDURE ASCE 7 or IBC
Ultimate Design Wind Speed: V_{ult} = 115 MPH IBC Eq. 1609.3(1)-(3)
Exposure Category: C IBC
Internal Pressure Coefficient: GC_{pi} = +/-0.18 ASCE 7
External Pressure Coefficient: GC_p = SEE FIGURE ASCE 7
Protected Openings Required No ☑ IBC 1609.1.2
Impact Resistant Glazing ☐
Impact Resistant Covering ☐

SEISMIC LOADS

Seismic Importance Factor: I = 1.0 ASCE 7 Table 1.5-2
Site Class: D IBC 1613.3.2
Mapped Spectral Response Accelerations: S_s = 0.221 S_1 = 0.067
Design Spectral Response Acceleration Parameters: S_{DS} = 0.236 S_{D1} = 0.150
Seismic Design Category: C IBC Tables 1613.3.5(1) & 1613.3.5(2)
Basic Seismic Force Resisting System: ORDINARY MASONRY SHEAR WALLS ASCE 7 Chapter 12
Design Base Shear: 68 KIPS
Seismic Response Coefficient(s): C_s = 0.118 ASCE 7
Response Modification Factor(s): R = 2 ASCE 7
Analysis Procedure: EQUIVALENT LATERAL FORCE PROCEDURE

ARCHITECTURAL, MECHANICAL, ETC. LOADS

Provide as applicable: architectural items, mechanical, plumbing, etc. per ASCE 7

SPECIAL LOADS

Provide as applicable: structural items, moving loads, impact, building, etc. per ASCE 7

*per IBC Chapter 16 and ASCE 7 – Information may be shown on Initial Structural Sheet of the drawings or on Sheet with either

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TABLE 11 MECHANICAL INFORMATION

AIR COMFORT SYSTEMS

Overall Thermal Transfer Value (OTTV): 3.1 BTU/(HR x ft²(x SF)
Building Cooling Load: 496 SF / Ton
Building Heating Load: 22 BTU/(HR x SF)

OTHER LOADING FEATURES

Glass: U Factor: 0.82(WEST); 0.49(WEST) Window to wall ratio: 4.63%
Insulation Values: Roof: R-38 Attic Exterior Walls: R-19/4
Outside Air minimum while occupied: 350 CFM 4 Occupants

MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT

Briefly describe mechanical systems: The conditioned and treasures areas are heated and cooled by a nominal 4 ton, split system air handling unit with electric supplemental heat. The associated heat pump unit is located on exterior grade next to the building. The heating system is heated by an electric heater. The restrooms and janitor's closet is exhausted by ceiling mounted centrifugal fans that discharge through a louver in the attic.

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TABLE 12 ELECTRICAL INFORMATION

SERVICE TRANSFORMER ☒ By Utility Company ☐ By Agency (If by Agency) _____ KVA Primary _____ Voltage Phase

ELECTRICAL SERVICE INFORMATION

Service Voltage/Phase: 480Y/3-PH Amperes
Service Entrance Conductors Size: 250 KCM Quantity per Phase
Total Connected Load: 98.1 KVA
Estimated Maximum Demand: 80.8 KVA
Available Fault Current in Symmetrical Amperes: 11,815
Interrupting Capacity of Service Overcurrent Device: 14,000 AIC
Grounding Electrode System Components: (NEC 250)

EMERGENCY SERVICE INFORMATION

Emergency Generator: Yes ☐ No ☒ _____ KVA _____ Voltage/Phase _____ Fuel
Exit/Emergency Lights: Backup Power ☒ Integral Battery ☐ Generator
Fire Alarm System: ☐ Manual ☐ Automatic ☐ Addressable ☐ Class A ☐ Class B

LIGHTNING PROTECTION PROVIDED ☒ Yes ☐ No

COMMUNICATIONS COORDINATED ☐ Not Required
Contact DSIT Network Infrastructure Planning for ag. 181 896-0001

TABLE 10 PLUMBING INFORMATION

WATER SYSTEM: Service Line Size: 2 Inches
Peak Flow: 38 GPM
Total Demand: 80 No. Fixture Units

SANITARY SEWER SYSTEM: Loading: GPD
Service Line Size: 4 Inches
Slope: 1/4" /12" for 4-1/2" pipe or less, 1/8" /12" for 5" or larger min inches/ft

MINIMUM PLUMBING FIXTURES REQUIRED/PROVIDED (Per IPC Section 403 & Table 403.1)
Occupancy Classification(s) (as shown in Table 3-A): SEE PARK OCCUPANCY CALC CHART BELOW
Total Building Design Occupant Load (as shown in Table 5-A): SEE PARK OCCUPANCY CHART BELOW

1. Occupancy: A-3	Total Load for this Occupancy: 350	Male: 125 Female: 175
	Male-REQUIRED	**Female-REQUIRED**
Water Closets/ Urinals*	2.33 (5 Urinals allowed) 1.00	5.38
Lavatories	0.83	1.17
OTHER FIXTURES (Per IPC Section 403 & Table 403.1)	**REQUIRED**	**PROVIDED**
Drinking Fountains	1.00	2
Unisex Toilets	0.00	0
Service Sink	1.00	1
Other (list)	0.00	0
2. Occupancy:	Total Load for this Occupancy:	Male: Female:
	Male-REQUIRED	**Female-REQUIRED**
Water Closets/ Urinals*	0 Urinals allowed 1	.....
Lavatories	.....	.....
OTHER FIXTURES (Per IPC Section 403 & Table 403.1)	**REQUIRED**	**PROVIDED**
Drinking Fountains	.....	.....
Unisex Toilets	.....	.....
Service Sink	.....	.....
Other (list)	.....	.....
3. Occupancy:	Total Load for this Occupancy:	Male: Female:
	Male-REQUIRED	**Female-REQUIRED**
Water Closets/ Urinals*	0 Urinals allowed 1	.....
Lavatories	.....	.....
OTHER FIXTURES (Per IPC Section 403 & Table 403.1)	**REQUIRED**	**PROVIDED**
Drinking Fountains	.....	.....
Unisex Toilets	.....	.....
Service Sink	.....	.....
Other (list)	.....	.....

TOTAL BUILDING COUNT (add all occupancies)

	Male-REQUIRED	Male-PROVIDED (round up if Required)	Female-REQUIRED	Female-PROVIDED (round up if Required)
Total Water Closets	2.33	5	4.38	5
Urinals*	(0 Urinals allowed) 1.00	(0 Urinals provided) 1		
Total Lavatories	0.88	2	1.17	2
OTHER FIXTURES (Per IPC Section 403 & Table 403.1)	**REQUIRED**		**PROVIDED**	(round up if Required)
Total Drinking Fountains	1.00		2	
Total Unisex Toilets	0.00		0	
Total Service Sinks	1.00		1	
Total Other (list)	0.00		0	

* Urinals - See IPC 419.2

PLUMBING OCCUPANCY CALCS

SOCCER FIELD USERS	234 OCC
(4 TEAMS PER FIELD PLUS REFEREES AND SPECTATORS)	
CONCESSION/STORAGE BUILDING	0 OCC
2 @ S-2 (363SF/300)	
4 @ B (513/150)	
0 OCCUPANTS FOR RESTROOMS (SERVE OTHER SPACES)	
SHELTER (1008SF/15)	68 OCC
PLAY AREA (4155SF/100)	42 OCC
TOTAL COMPLEX OCCUPANT LOAD	**350 OCC**

PLUMBING CALCULATIONS

TOTAL PLUMBING OCCUPANCY = 350 OCC

2018 IBC TABLE 2902.1

ASSEMBLY A-5: STADIUMS, AMUSEMENT PARKS...

MINIMUM FIXTURES REQUIRED (50% MALE / 50% FEMALE):

MALE:	FEMALE:
175 OCC	175 OCC
= 3 WC (*2 WC/1 URINAL)	= 5 WC
= 1 LAV	= 2 LAV

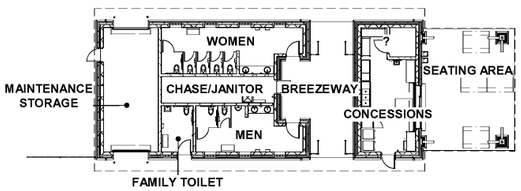
*UP TO 50% OF MALE WC MAY BE SUBSTITUTED WITH URINALS PER 2018 IPC 424.2 (3/2 = 1.5 = 1 URINAL)

DRINKING FOUNTAINS: 1 PER 1000 OCC = 1 DF

ACTUAL FIXTURES PROVIDED:

MALE:	FEMALE:	FAMILY:
= 2 WC	= 5 WC	= 1 WC
= 1 URINAL	= 2 LAV	= 1 LAV
= 2 LAV		

DRINKING FOUNTAINS: 2 DF



REFERENCE PLAN
SCALE: 1/16" = 1'-0"

Order Plans @ WWW.DILine.com

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STATE OF SOUTH CAROLINA — JOHN BRADER — Charlotte, NC — No. 9803 — 11/20/20 — REGISTERED ARCHITECT

SOUTH CAROLINA — WOOLPERT INC. No. C05590 — CERTIFICATE OF AUTHORIZATION

Lancaster County Soccer Complex
Indian Land Soccer Complex

Lancaster County, South Carolina
Lancaster County Parks & Recreation Soccer Complexes
10167 Harrisburg Road
Indian Land, SC 29707

Revisions:
1 County Permit Review 1 11/20/20

Proj. No.: 080702
Date: 10/09/2020

Sheet Name:
CODE SUMMARY

G-002

ISSUED FOR BID - 2021.02.04