lame Of Project: ddress:	CASINO PARTY 252 Jarco Dr., Fi	ACES uquay-Varina NC				
Jame Of Project: Address: Proposed Use: Owner Or Authorized Agent:	Weeks Turner Ar	REHOUSE chitecture	Phone: (91 E-mail ga	19) 779-9797 Inderson@we	eksturner.com	
Owned By: Code Enforcement Jurisdiction					[] State [] State	
LEAD DESIGN PROFESS Designer FIRM Trobitectural: Weel		NAME	LIC. # TELEI	PHONE E-I	MAIL nderson@weeksturne	r 00r
ivil	e Design Group	 Benjamin E Burke			nderson@weeksturne n@bdg-nc.com	er.cor
lechanical: Burke	e Design Group e Design Group	Benjamin E Burke Benjamin E Burke	22038 22038	ber	n@bdg-nc.com n@bdg-nc.com	
prinkler - Standpipe: tructural: Willia	ım Ratterree	William Ratterree			rebug no.com	
etaining Walls > 5' High ther:						_
012 EDITION OF NC CO XISTING: [] Reconstruction ONSTRUCTED ORIG	n [] Alterati	on	[] Repair	[] Upfit	D00ED H0E	
UILDING DATA				= PNU	POSED USE	_
CONSTRUCTION TYPE:	[]I-B [X]II-B	[] III-B	[] V- B			
MIXED CONSTRUCTION: SPRINKLERS: STANDPIPES:	[X] NO [] PART	TYPES: AL [] YES [CLASS []I] NFPA 13	[]NFPA 1	3R [] NFPA 1	3D
FIRE DISTRICT: BUILDING HEIGHT:	[X] NO [] YES	FLOOD HAZARD	AREA: [) STORIES: 42	(] ON []	YES []DRY	
MEZZANINE: ROSS BUILDING AREA	[]NO []YES			_ _ B-TOTAL	TENANT	
3RD FLOOR 2ND FLOOR			, 001			
MEZZANINE 1ST FLOOR		5,000		5,000		
BASEMENT TOTAL		5,000		5,000		
LLOWABLE AREA: RIMARY OCCUPANCY:						:
] ASSEMBLY X] BUSINESS	[]A-1 []A-2 [] <i>A</i>	\-3 []A-4 []A-5	5			
] EDUCATIONAL] FACTORY-INDUSTRIAL] HIGH-HAZARD	[] F-1 Moderate [] H-1 Detonate [[]F-2 Low]H-2 Deflactate	[]H-3 Comb	oust []H_A	Health []H-5 HP	м
j institutional	[]I-1 []I-2 []I-3 CONDITION [·3 []I-4		act [] i i	riodiai []iro iii	
MERCANTILE RESIDENTIAL STORAGE	[]R-1 []R-2 []F []S-1 Moderate	[] S-2 Low				
] UTILITY AND MISC SECONDARY OCCUPANCY:	[] PARKING GARA S-1	GE[]OPEN	[] ENCLOSE	ט [REPAIR GARAGE	
] GROUP I-2 STORAGE RO] GROUP I-2 COMMERCIAI] GROUP I-2 LAUNDRIES E] GROUP I-2 ROOMS OR S PECIAL OCCUPANCY: PECIAL PROVISIONS:	KITCHENS EQUAL TO OR LESS T PACES THAT CONTA [] 402 [] 403 [] [] 412 [] 413 []	HAN 100 SQUAR IN FUEL-FIRED H 404 [] 405 [] 4 414 [] 415 [] 4 424 [] 425 [] 4	EATING EQUIF 106 []407 [] 116 []417 [] 126 []427 509.5 []509.] 408	9 []410 []411 9 []420 []421 7 []509.8 []509	.9
] Incidental Use Separation (508.2.5)			EPTION:		
This separtation is not Non-separated Mixed Occu	pancy (508.3.2)	·				
The Required Type Of Limitations For Each C Construction, So Deter	Construction For The I	pancies To The Er	itire Buildina. Th	pplying The line Most Resti	Height And Area ictive Type Of	
] Separated Mixed Occupand For Each Story, The Ai	cv (508.3.3) - See Belov	w For Area Calc.	•	The Barres Of	TI . A . 151 A	
Of Each Use Divided E	By The Allowable Floor	Area For Each Us	e Shall Not Exce	ed 1.	THE ACIUAL FIGUR ARE	а
CTUAL AREA OF OCCUPAN LLOWABLE AREA OF OCCU	JPANCYA ALLO	UAL AREA OF OC OWABLE AREA O	F OCCUPANCY FOCCUPANCY			
	+		+	≤ 1.00		
(A) FORY DESCR'N BLDG O. AND USE PER ST	AREA TABLÉ 503 5	(C) AREA FOR	(D) AREA FOR	(E) ALLOWABL		
(ACTU	JAL)	OPEN SPACE INCREASE 1	SPRINKLER INCREASE 2	AREA OR UNLIMITED		
S1 3, - B 2, 	750 23,000 100 17,500	17,200 13,125 		40,250 30,625	40,250 30,625 	
- 						
Open Space Area Increases	From Section 506.2 Ar	e Competed Thus:) =+ h.40 ++ # ***	/E\		
 A. Perimeter Which Fronts B. Total Building Perimete C. Ratio (F/P) = 	r = (P). (F/P).		י ויווח. Width =	= (├).		
D. W= Minimum Width Of E. Percent Of Frontage Increase Per Street Street Per	crease	(W). 0.25] X W/30 = ows:	(%).			
A. Multi-story Building Is = B. Single Story Building Is	= 200 % == 300%					
I Inlimited Area Applicable	ฉอก ออกนแบกร Of Sect o. Of Stories In The Bu	ilding X E (506.4)	O.E. The Marries	um Aroa Of /	\ir	
Unlimited Area Applicable Un Max. Building Area = Total No The Maximum Area Of Open	Parking Garages Must	Comply With 406.	3.5. The Maxim	uiii Alea Oi A	VII.	
Max. Building Area = Total No The Maximum Area Of Open Traffic Control Towers Must C	Parking Garages Must	Comply With 406.	3.5. The Maxim	um Alea Of A	····	-
Max. Building Area = Total No The Maximum Area Of Open	Parking Garages Must Comply With 412.1.2.	Comply With 406.	3.5. The Maxim	uni Alea Ol A		-

2012 APPENDIX E	B BUILDING C	ODE SU	MMARY			CONT	ΓINUE
FIRE PROTECTION REQU							
BUILDING ELEMENT	FIRE SEP'N DIST.	RATING REQ'D	RATING PROV'D (W/*	DETAIL # AND SHEET #	DES. # FOR RATED	DES. # FOR RATED	DES. FOR RATE
STRUCTURAL FRAME,	(FT)		REDUCTION		ASS'Y	PENET'N	
INCLUDING COLUMNS GIRDERS, TRUSSES		0					
BEARING WALLS EXTERIOR		0					
NORTH EAST WEST		0 0 0					
WEST SOUTH INTERIOR		0					
NONBEARING WALLS AND PARTITIONS		O					
EXTERIOR NORTH	>30'	0					
EAST WEST	>30' >30'	0 0					
SOUTH INTERIOR WALL & PARTIT	>30' FIONS	0					
FLOOR CONSTRUCTION INCLUDING SUPPORTING		0					
BEAMS AND JOISTS ROOF CONSTRUCTION INCLUDING SUPPORTING		0					
BEAMS AND JOISTS SHAFTS ENCLOSURES-EXIT							
SHAFTS ENCLOSURES-OTHER CORRIDOR SEPARATION	R 2	0				***	
OCCUPANCY SEPARATION PARTY/FIRE WALL SEPARATION							
SMOKE BARRIER SEPARATION TENANT SEPARATION		1	1		 U419		
INCIDENTAL USE SEPARATION *INDICATE SECTION NO. F		 UCTION					
			······································				
L IFE SAFETY SYSTEM RE EMERGENCY LIGHTING:	QUIREMENTS: [X] YES [] NO		KE DETECTIO	NI QVQTEMO	. IIVE	e ivino	[] DAD
EXIT SIGNS: FIRE ALARM:	[X] YES [] NO [] YES [X] NO	PANI	KE DETECTIO C HARDWARE	:: ::): []YE	S [X] NO	[]PAH
L IFE SAFETY PLAN REQU [X] FIRE AND/OR SMOKE RATE		ONS (CHAI	PTFR 7)	SHEET	NUMBER	A0.2	-
ASSUMED AND REAL PROF EXTERIOR WALL OPENING	PERTY LINE LOCA	TAIÒNS	•	ASSUMED I	PROPERT	YUNES (70)5 8)
[] EXISTING STRUCTURES WI [X] OCCUPANCY PLAN TYPES	ITHIN 30 FT OF TI	HE PROPO	SED BUILDIN	G		•	•
1001.1.1) [X] OCCUPANT LOADS FOR EA	ACH AREA	THO IT TIEL	-X1120 10 00	OOI AIVI LO	AD OALO	SEATION (1)	NDLL.
X EXIT ACCESS TRAVEL DIST X COMMON PATH OF TRAVE	TANCES (1016)	14.3.& 102	8.8)				
] DEAD END LENGTHS (1018. [X] CLEAR EXIT WIDTHS FOR E	.4)		J. J.				
X MAXIMUM CALCULATED OO EGRESS WIDTH (1005.1	CCUPANT LOAD	CAPACITY	EACH EXIT D	OOR CAN A	ССОММО	DATE BASE	ED ON
X] ACTUAL OCCUPANT LOAD] A SEPARATE SCHEMATIC F	FOR EACH DOOF	R WHERE F	IRE BATED F	OOB/CEILII	NG AND/C	B BOOF ST	FRUCTI
IS PROVIDED FOR PURPO LOCATION OF DOORS WITH	SES OF OCCUPA	NCY SEPA	ARATION		ind Alindro	7111001 01	1110010
LOCATION OF DOORS WITH LOCATION OF DOORS WITH	H DELAYED EGRE	ESS LOCK	S AND THE AN	MOUNT OF T	HE DELA	Y (1008.1.9.	7)
I LOCATION OF DOORS EQU LOCATION OF EMERGENCY	IPPED WITH HOL	D-OPEN D	EVICES `	,			
THE SQUARE FOOTAGE OF THE SQUARE FOOTAGE OF NOTION ON ANY CODE EXC	FCH FIRE AREA	(902)	•				
[] NOTION ON ANY CODE EXC	CEPTIONS OR TAI	BLE NOTE	S UTILIZED R	EGARDING T	THE ITEM	S ABOVE	
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TOTAL UNITS ACCESSIBLE UNITS REQ'D ACCESSIBLE PARKING -	ACCESSIBLE UNITS PROV'D SEE ATTACHE	TYP UNITS ED SITE I # OF AC	E A REQ'D UN PLAN CCESSIBLE SE	ITS REQ'D PACES PRO	UNITS P VIDED	EB AIROV'D UN	TOTA CCESS NITS PR AL # SSIBLE VIDED
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CASINO PARTY ACES Approved By: Rodney Daniels,

ENERGY SUMMARY

ENERGY REQUIREMENTS:

THERMAL ENVELOPE

Method of Compliance:

Description of assembly U-Value of total assembly R-Value of insulation Skylights in each assembly U-Value of skylight

U-Value of total assembly R-Value of insulation R-19

Description of assembly

Walls below grade (each assembly) Description of assembly U-Value of total assembly

R-Value of insulation

R-Value of insulation

R-Value of insulation

Slab heated

GENERAL NOTES

I: FOR THIS PROJECT:

WRITTEN AGREEMENT WITH ANOTHER PARTY.

DESIGNATED IN WRITING BY THE OWNER.

COMPLY WITH ALL INCLUSIVE DOCUMENTS.

II: ALL WORK UNDER THIS CONTRACT SHALL:

Floors slab on grade (each assembly)

Description of assembly

U-Value of total assembly R-10

A) A PROJECT EXPEDITOR WILL BE DESIGNATED BY THE OWNER TO PROVIDE GENERAL ADMINISTRATION OF THESE DOCUMENTS FOR THE OWNER. PROJECT EXPEDITOR SHALL BE THE OWNER UNLESS OTHERWISE DESIGNATED BY

C) THE ARCHITECTS SCOPE OF WORK DOES NOT INCLUDE CONSTRUCTION OBSERVATION UNLESS OTHERWISE

USE OF THESE DOCUMENTS WILL CONSTITUTE AGREEMENT BY THE CONTRACTOR TO THESE CONDITIONS.

EVENT OF A CONFLICT, THESE GENERAL NOTES AND CONTRACT SUPERSEDE "AIA DOCUMENT A-201".

ENGINEERING AND CODES --> CODE ENFORCEMENT RESOURCES --> LIEN AGENT TOOLS.

NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.

III: UNLESS OTHERWISE DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL:

OF THE CONTRACTOR RESULTING FROM SUCH DISPOSITION.

FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.

CONTRACTOR'S ACTIONS.

B) THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO CONVEY THE DESIGN INTENT OF THE ARCHITECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DIMENSIONS, FIELD CONDITIONS, ETC. AS REQUIRED

THE CONTRACTOR IS IN CHARGE OF THE WORK AND COMPLIANCE WITH THESE DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT WILL BEAR NO RESPONSIBILITY FOR FAILURE OF THE CONTRACTOR TO FULLY

D) "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF THE BUILDINGS" OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201, LATEST EDITION, ARE HEREBY MADE PART OF THE DOCUMENTS. IN THE

E) PER NC GENERAL STATUTE SECTION 44A-11.2(A): THE PROJECT EXPEDITOR SHALL APPOINT A MECHANICS' LIEN AGENT. SEE NC DOI WEBSITE FOR MORE INFORMATION PER THE FOLLOWING LINKS: OFFICE OF THE STATE FIRE MARSHAL -->

A) CONFORM TO STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AS ARE APPLICABLE TO THE WORK INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA),

B) COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION (EPA). THE COST OF ALL REQUIRED INSPECTIONS AND PERMITS SHALL BE THE RESPONSIBILITY OF THE

A) SUPPLY AND PAY FOR ALL LABOR, TRANSPORTATION, MATERIALS, TOOLS, APPARATUS, LIGHTS, POWER, HEAT,

SANITARY FACILITIES, WATER, SCAFFOLDING, AND INCIDENTALS NECESSARY FOR THE COMPLETION OF HIS WORK.

B) INSTALL, MAINTAIN AND REMOVE ALL EQUIPMENT, OTHER UTENSILS OR THINGS USED FOR THE CONSTRUCTION PRIOR O TURNING OVER THE PROJECT., IF SUCH ITEMS ARE LEFT AFTER COMPLETION OF THE PROJECT, THEY SHALL BECOME

PROPERTY OF THE OWNER. THE OWNER MAY PROMPTLY DISPOSE OF SUCH ITEMS, AND WILL NOT BE SUBJECT TO CLAIMS

C) CONSTRUCT IN THE BEST AND PROFESSIONAL MANNER, A COMPLETE JOB AND EVERYTHING INCIDENTAL THERETO, AS SHOWN OR REASONABLY IMPLIED FROM THE PLANS, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE

D) VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT IN

WRITING OF ANY DISCREPANCIES DISCOVERED OR LACK OF REQUIRED INFORMATION TO REQUEST CLARIFICATION. IF

SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS OR AS DIRECTED BY PROJECT EXPEDITOR.

FLOORS AS SPECIFIED, AND COMPLETELY PREPARE THE BUILDING FOR USE BY THE OWNER.

PREVENT ACCIDENT OR INJURY TO PERSONS ON OR $\,$ ABOUT THE LOCATION OF THE WORK.

MAINTAIN ALL PROTECTIVE DEVICES AND SIGNS THROUGHOUT THE PROGRESS OF THE WORK

THE CONTRACTOR OBSERVES THE DOCUMENTS TO BE CONTRARY TO GOVERNING LAWS, ORDINANCES, CODES, RULES

AND REGULATIONS OR OTHERWISE QUESTIONABLE CONDITIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING

E) KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM RUBBISH AT ALL TIMES. AT A MINIMUM, DEBRIS

F) LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR MAY NOT INTERFERE WITH ADJACENT UTILITIES UNLESS PRIOR

G) PRIOR TO ANY WORK, CALL "NC ONE CALL CENTER" @ 800-632-4949 AND OTHER LOCATING SERVICES AS TO CONFIRM

H) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH CONTRACTOR SHALL CLEAN HIS PORTION OF HE WORK, INCLUDING GLASS, HARDWARE FIXTURES, MASONRY, TILE AND MARBLE (USING NO ACID), CLEAN AND WAX ALL

I) FILE WITH THE OWNER CURRENT INSURANCE CERTIFICATIONS IN THE AMOUNTS REQUESTED BY THE OWNER FOR

BUILDER'S RISK, WORKMEN'S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY, BODILY INJURY AND PROPERTY DAMAGE. THIS INSURANCE SHALL INDEMNIFY THE OWNER AND THE ARCHITECT OF ANY AND ALL COSTS, CLAIMS, SUITS

I) PROVIDE ALL NECESSARY SAFETY MEASURES FOR THE PROTECTION OF ALL PERSONS OF THE WORK, INCLUDING THE REQUIREMENTS OF THE A.G.C. ACCIDENT PREVENTION MANUAL IN CONSTRUCTION AS AMENDED, AND SHALL FULLY

K) CLEARLY MARK OR POST SIGNS WARNING OF HAZARDS EXISTING, AND BARRICADE EXCAVATIONS. ELEVATOR SHAFTS.

STAIRWELLS AND SIMILAR HAZARDS. PROTECT AGAINST DAMAGE OR INJURY RESULTING FROM FALLING MATERIALS AND

COMPLY WITH ALL STATE LAWS OR REGULATIONS AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS TO

AND JUDGEMENTS FOR PROPERTY DAMAGE AND PERSONAL INJURY (INCLUDING GENERAL) ARISING OUT OF THE

NOTICE AND PERMISSION IS RECEIVED FROM THOSE WHO MAY AS A RESULT OF THIS INTERFERENCE BE AFFECTED.

Horizontal/Vertical requirement

FOR THE PROPER IMPLEMENTATION OF THESE DRAWINGS. DO NOT SCALE THE DRAWINGS.

Description of assembly

U-Value of total assembly

U-Value of total assembly R-Value of insulation

Description of assembly AT METAL BUILDING

Openings (windows or doors with glazing)

U-Value of assembly 0.45

Low-e required, if applicable

Walls adjacent to unconditioned space (each assembly)

Openings (windows or doors with glazing) U-Value of assembly Low-e required, if applicable Door R-Values <u>0.50</u>

Floors over unconditioned space (each assembly)

<u>ŚĹAB ON GRADE</u>

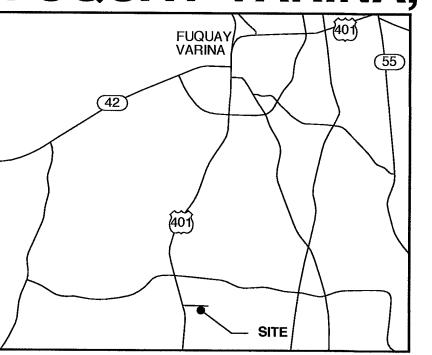
Shading coefficient Projection factor

Exterior Walls (each assembly)

Door R-Values

Performance

252 JARCO DR. **FUQUAY-VARINA, NC**

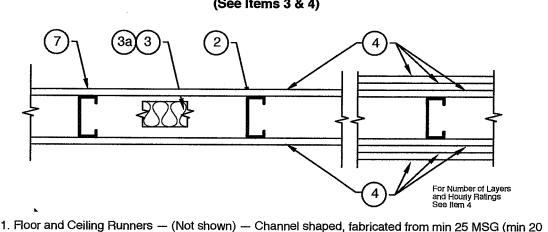


VICINTY MAP

SCALE: NTS

Design No. U419

Nonbearing Wall Ratings 1, 2, 3 or 4 Hr
(See Items 3 & 4)



MSG when Item 4A is used) corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

2. Steel Studs — Channel shaped, fabricated from min 25 MSG (min 20 MSG when Item 4A is used) corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

3. Batts and Blankets* — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

3A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

4. Gypsum Board* — Gypsum panels with beyeled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Wallboard Protection on Each Side of Wall

Rating		Min St	udNo. of Layers		Min Thkns
Ū	Depth		& Thkns of Panel	of Insulat	
	•	0.4/0	4 lava - 50 t		(Item 3)
!		3-1/2	1 layer, 5/8 i		Optional
1		2-1/2	1 layer, 1/2 i	n. thick	1-1/2 in.
1		1-5/8	1 layer, 3/4 i	n. thick	Optional
2		1-5/8	2 layers, 1/2		Optional
2		1-5/8	2 layers, 5/8	in, thick	Optional
2 2 2 3		3-1/2	1 layer, 3/4 i	n, thick	3 in.
3		1-5/8	3 layers, 1/2		Optional
3		1-5/8	2 layers, 3/4		Optional
3		1-5/8	3 layers, 5/8	in. thick	Optional
4		1-5/8	4 layers, 5/8	in, thick	Optional
4		1-5/8	4 layers, 1/2		Optional
4		2-1/2	2 layers, 3/4		2 in.

CANADIAN GYPSUM COMPANY — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. Gypsum Board* — (As an alternate to Item 4) — 5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length and spacing of the screws as specified

CANADIAN GYPSUM COMPANY — Type FRX

UNITED STATES GYPSUM CO — Type FRX

4B. Gypsum Board* — (As an alternate to Items 4 and 4A) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.

CANADIAN GYPSUM COMPANY — Type SHX.

UNITED STATES GYPSUM CO — Type SHX.

USG MEXICO S A DE C V — Type SHX.

5. Fasteners — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below

6. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use

7. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

8. Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick

9. Caulking and Sealants * — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control

*Bearing the UL Classification Mark

UNITED STATES GYPSUM CO — Type AS

Chief Deputy Fire Marshal

12/04/2017 4:15:43 PM

0.50 OPAQUE 0.45 STOREFRONT 0.77 ENTRANCE

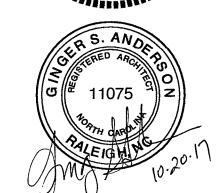
DIVIDING OFFICE AND WAREHOUSE AREAS

ARCHITECTURE The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If energy cost budget method, state the annual energy cost budget vs allowable annual energy cost budget. WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Prescriptive --- % Glazed Wall Area Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 Energy Cost Budget www.weeksturner.com Roof/ceiling Assembly (each assembly) R-11+19 LINER SYSTEM W/ R-5 THERMAL BLOCKS Total square footage of skylights in each assembly



WEEKS

TURNER



DRAWING INDEX

A0.1 COVER SHEET A0.2 LIFE SAFETY

A1.1 FIRST FLOOR PLAN

A2 ELEVATIONS A3 SECTION

A4 SCHEDULES/DETAILS

S1 FOUNDATION PLAN S2 FOUNDATION DETAILS

P1 PLUMBING SPECS P2 DWV PLAN

P3 SUPPLY PLAN

P4 RISERS

M1 HVAC SCHEDULES

M2 HVAC PLAN

E1 SPECS / DETAILS

E2 LIGHTING PLAN E3 POWER PLAN

E4 PANELS & RISER

FOR PERMIT

CASINO PARTY ACES

FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.

DRAWING TITLE

COVER SHEET

SHEET 1

PLOT DATE REVISION

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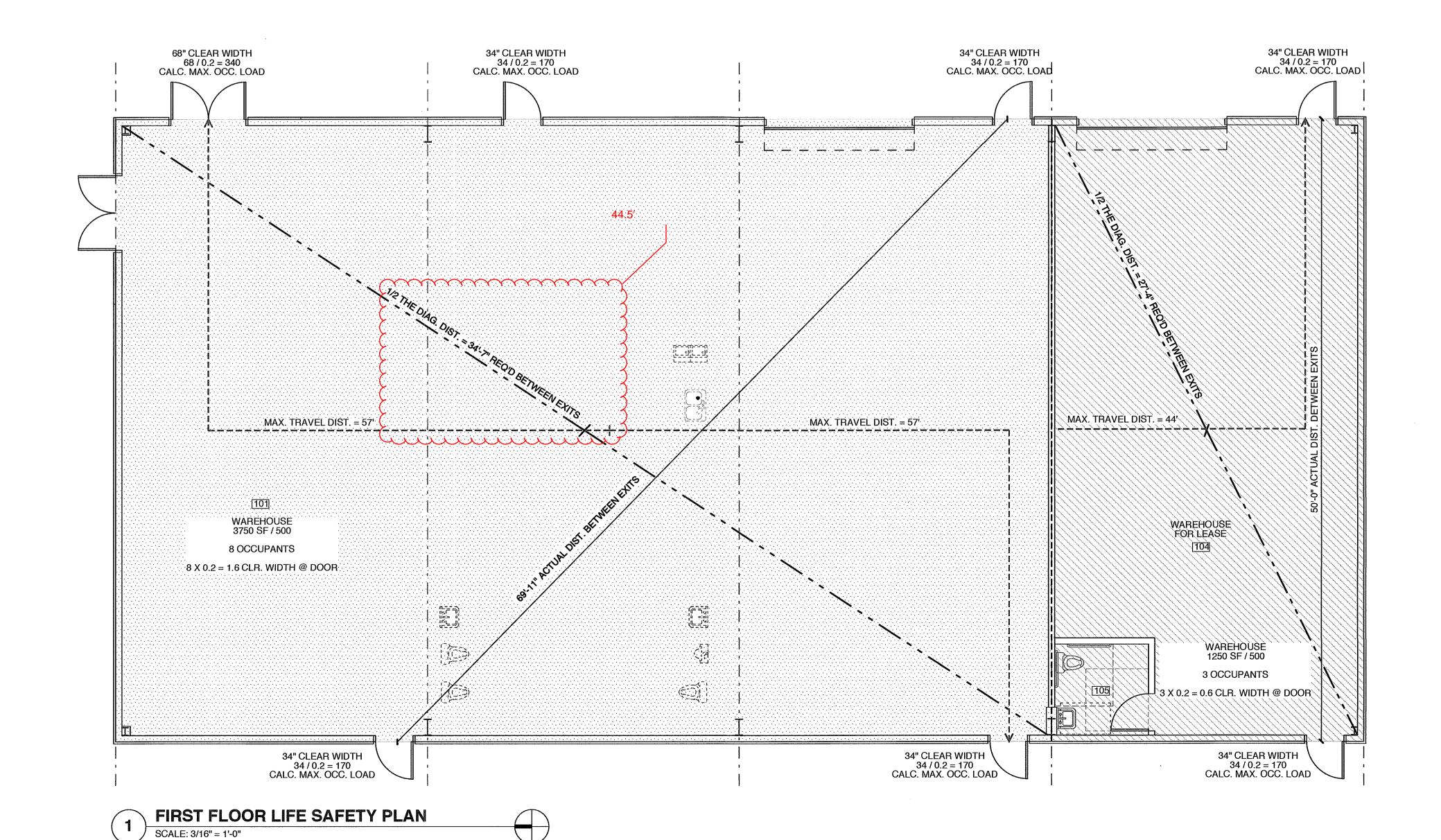
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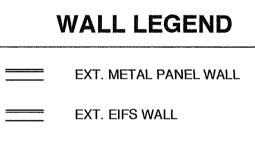


EGRESS REQ. & CODE REF.

DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1 THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1 48" CLR. WIDTH REQ'D BETWEEN HANDRAILS.

See Plan Review Notes





1 HR. RATED TENANT SEPARATION WALL (U419)

INTERIOR WALL-FULL HEIGHT INTERIOR WALL-9'-0" HT.

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PROJECT TITLE **CASINO PARTY ACES**

252 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

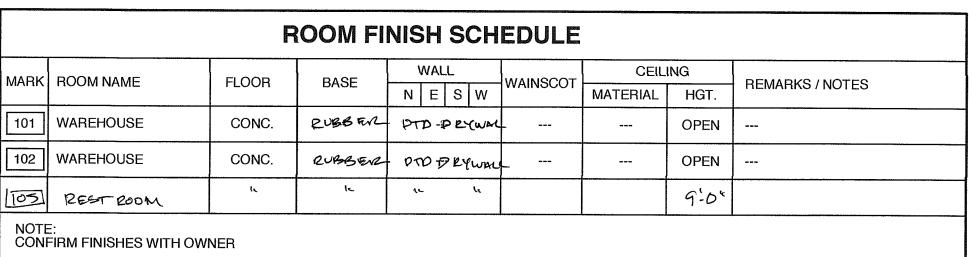
PROJECT NO.

DRAWING TITLE LIFE SAFETY PLAN

PLOT DATE REVISION

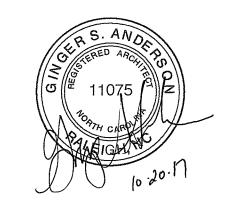
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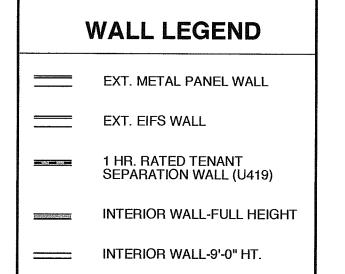
ROOM FINISH SCHEDULE								
MARK	ROOM NAME	FLOOR	BASE	WALL	MAINICOOT	CEIL	ING	DEMARKO ANOTEO
ואורקו נול	ROOM NAME	FLOOR	DAGE	N E S W	WAINSCOT	MATERIAL	HGT.	REMARKS / NOTES
101	WAREHOUSE	CONC.	eubb en	PTD-PRYWM			OPEN	
102	WAREHOUSE	CONC.	RUBBER	000 DEYWAL			OPEN	
105	RESTROOM	(c	اد	اد لو			9-04	





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PROJECT TITLE **CASINO PARTY ACES**

252 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO. 1640

DRAWING TITLE

MAIN FLOOR PLAN

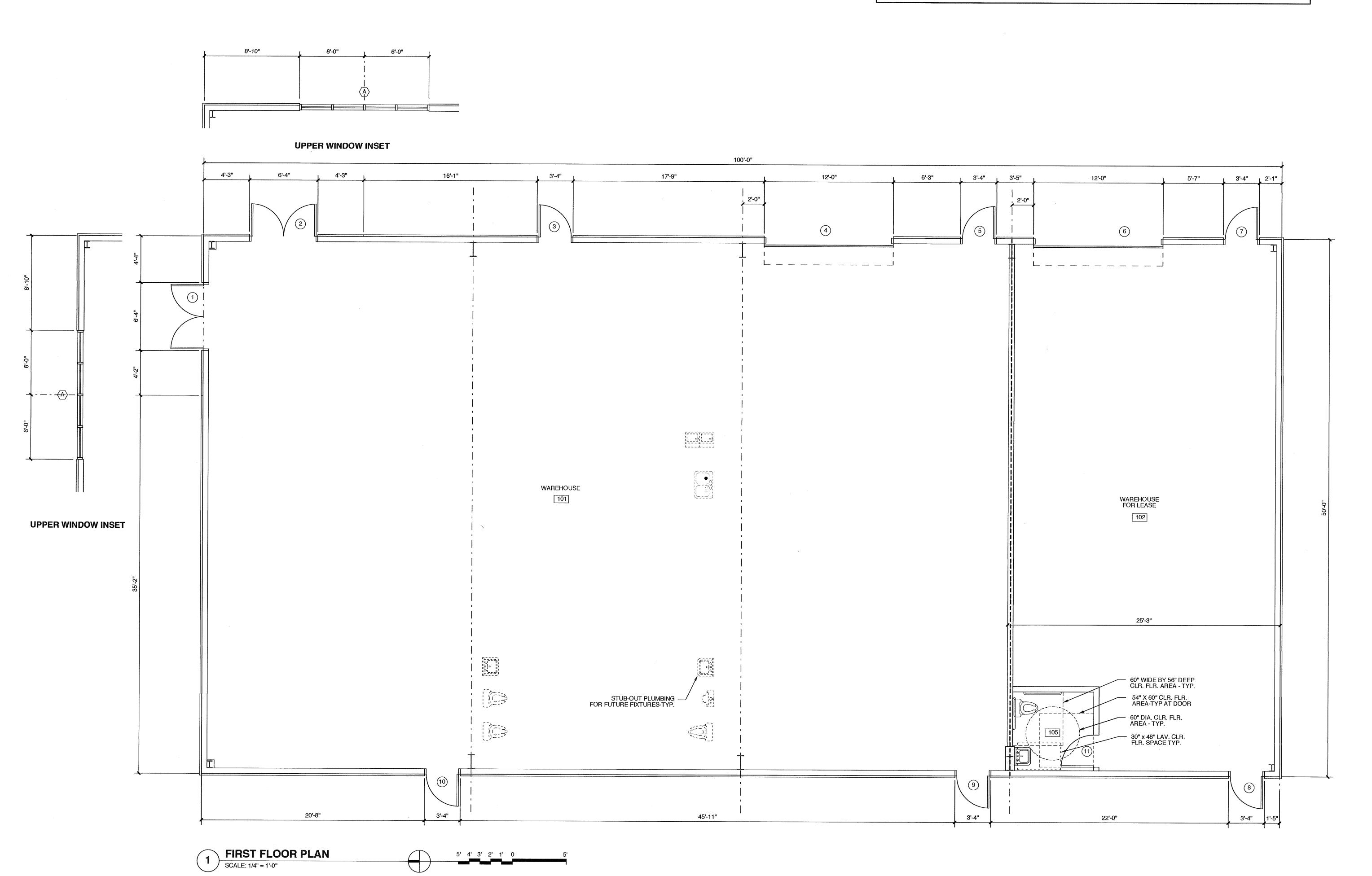
OF 6

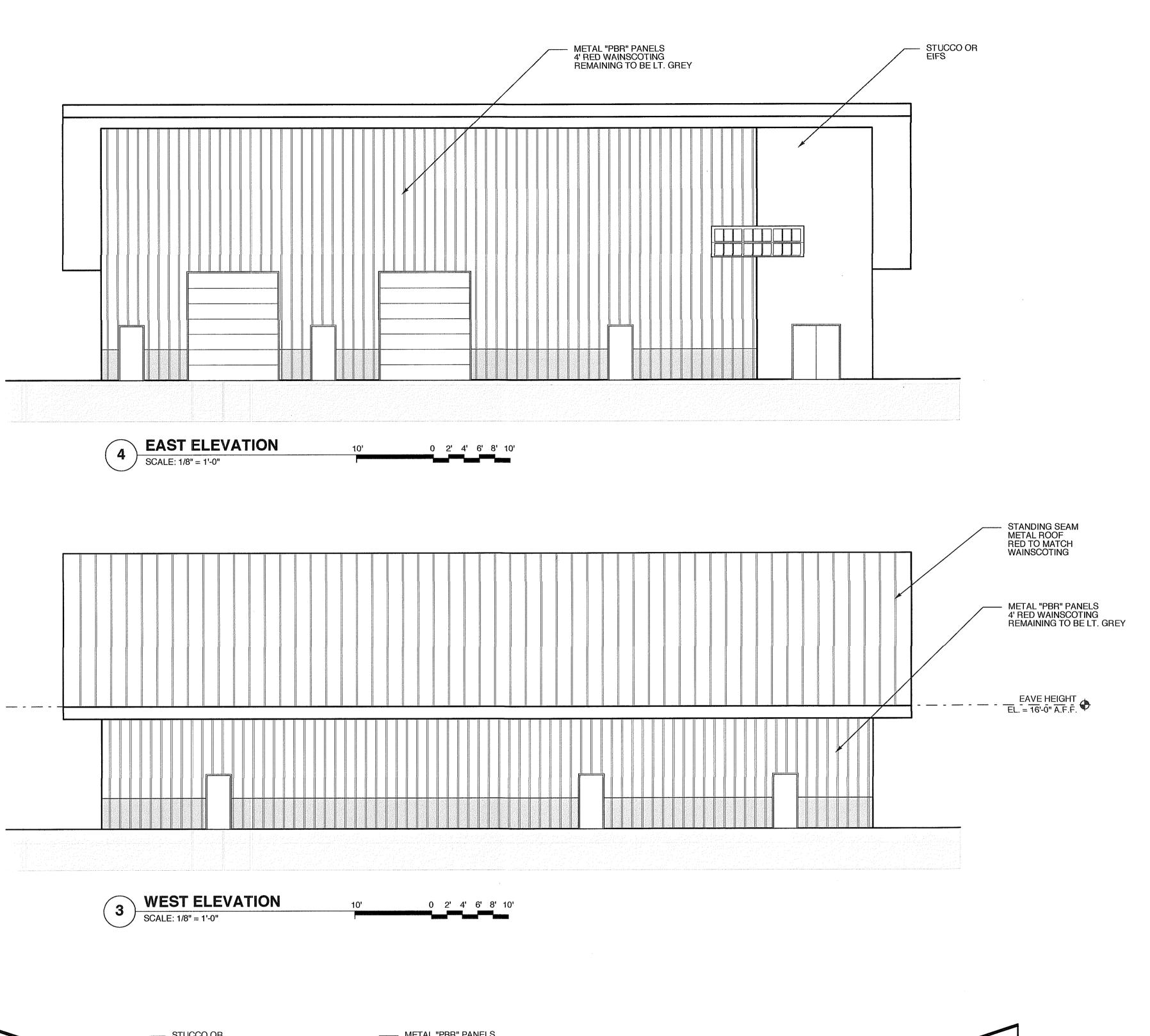
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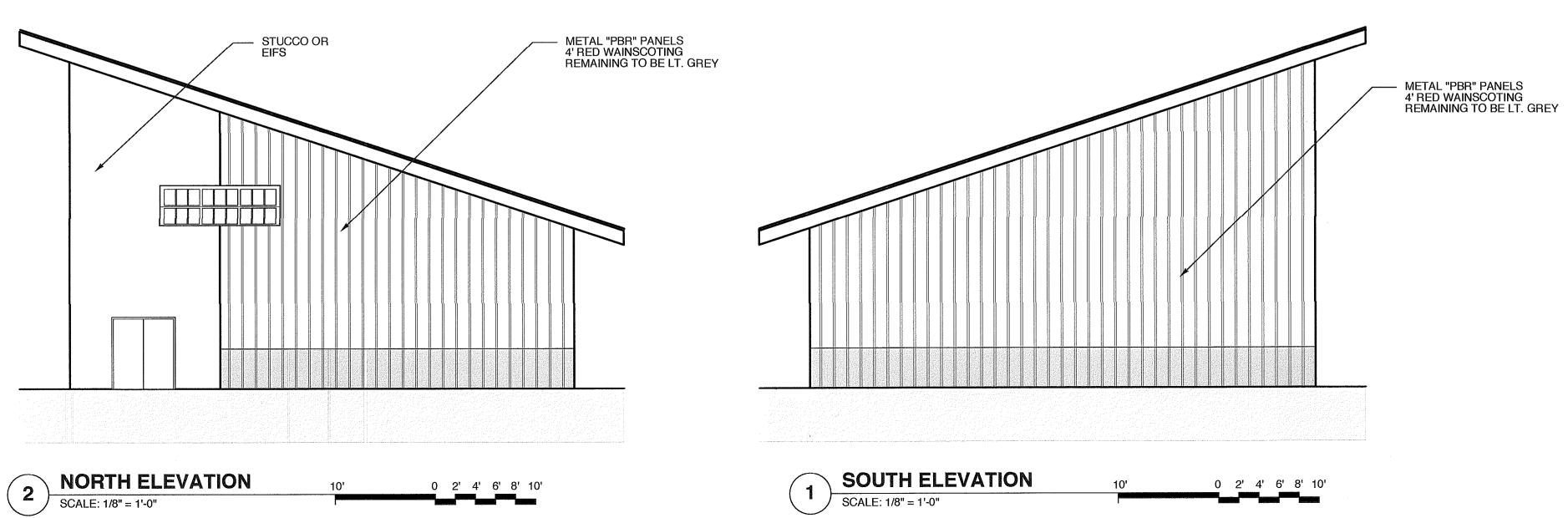
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PROJECT TITLE

CASINO PARTY ACES

252 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

> PROJECT NO. **1640**

DRAWING TITLE
ELEVATIONS

SHEET 5 OF 6

12

PLOT DATE REVISION

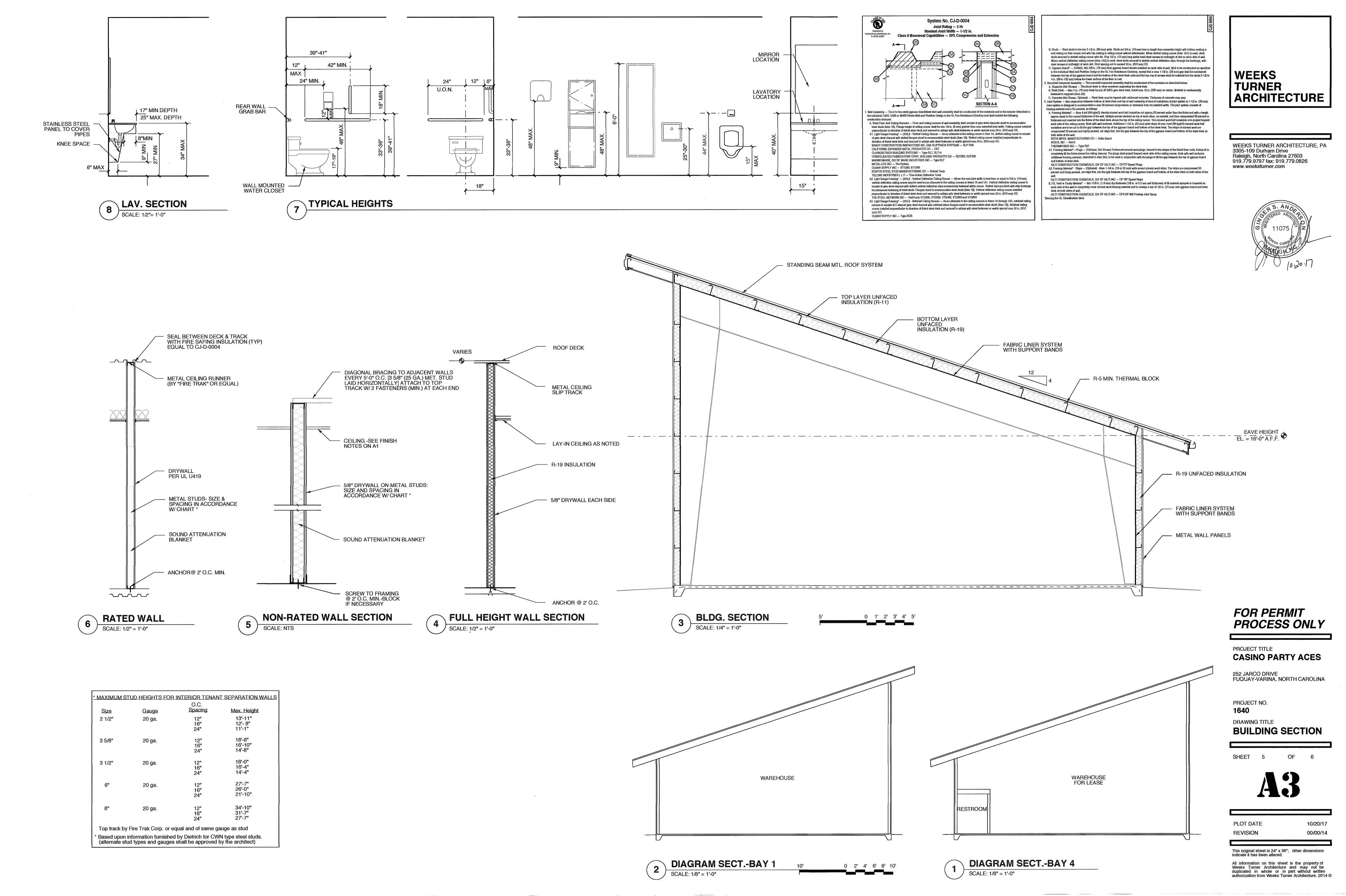
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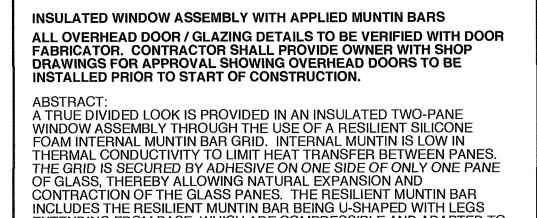
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DRAWINGS FOR APPROVAL SHOWING OVERHEAD DOORS TO BE INSTALLED PRIOR TO START OF CONSTRUCTION.
ABSTRACT: A TRUE DIVIDED LOOK IS PROVIDED IN AN INSULATED TWO-PANE WINDOW ASSEMBLY THROUGH THE USE OF A RESILIENT SILICONE FOAM INTERNAL MUNTIN BAR GRID. INTERNAL MUNTIN IS LOW IN THERMAL CONDUCTIVITY TO LIMIT HEAT TRANSFER BETWEEN PANES. THE GRID IS SECURED BY ADHESIVE ON ONE SIDE OF ONLY ONE PANE OF GLASS, THEREBY ALLOWING NATURAL EXPANSION AND CONTRACTION OF THE GLASS PANES. THE RESILIENT MUNTIN BAR INCLUDES THE RESILIENT MUNTIN BAR BEING U-SHAPED WITH LEGS EXTENDING FROM BASE, WHICH ARE COMPRESSIBLE AND ADAPTED TO MOVE LATERALLY IN RESPONSE TO PRESSURE FROM PANES DUE TO CHANGING THERMAL CONDITIONS, BONDING OF EXTERNAL WOODEN MUNTIN BARNS TO THE PANES, OR WIND LOAD.
BY BOTTOMING OUT AGAINST THE BASE OF THE RESILIENT MUNTIN BAR.

	WINDOW SCHEDULE					
MARK	W SIZE H	TYPE	MATERIAL	GLASS	REMARKS	
A	12'-0" x 4'-0"	1	OH DOOR	1" INSUL. LOW E GLASS		*41
-FIELD	/INDOW TYPE ELE [\] VERIFY ALL EXIST	ING OPENII	NG SIZES. DIME	NSIONS GIVEN FOR REFEREN STANDARDS WITH ALL FRAME		

APPLIED / INT. MUNTIN - TYPICAL

(SEE DETAIL AT LEFT)

7'-0" AFF

1" INSULATED GLASS

(PAINTED -OWNER TO

SECTIONAL JOINT

SASH / FRAME

SELECT COLOR)

			DOO	R S	CHEDU		*.	
		DOOR			FRA	ME	LIDVAD	
	MARK	SIZE	MAT'L	TYPE	TYPE	DETAILS	HDWR SET NO.	REMARKS
	1	2-3'-0" x 7'-0" x 1-3/4"	INSUL HM	Α	Α			
	2	2-3'-0" x 7'-0" x 1-3/4"	INSUL HM	А	Α			
	(3)	3'-0" x 7'-0" x 1-3/4"	INSUL HM	Α	Α	Man data dan		
	4	12'-0" x 14'-0" x 2"	INSUL. O.H.	D		~~~		
•	5	3'-0" x 7'-0" x 1-3/4"	INSUL HM	А	Α			
	6	12'-0" x 14'-0" x 2"	INSUL. O.H.	D		50 OM 50F		
	7	3'-0" x 7'-0" x 1-3/4"	INSUL HM	А	Α	en 19-101		
	8	3'-0" x 7'-0" x 1-3/4"	INSUL HM	А	Α			
	9	3'-0" x 7'-0" x 1-3/4"	INSUL HM	Α	Α			
	10	3'-0" x 7'-0" x 1-3/4"	INSUL HM	Α	Α			
	11	3'-0" x 7'-0" x 1-3/4"	SC WD	В	В			
		A State of the sta						

HARDWARE SETS

DOOR NOTES:

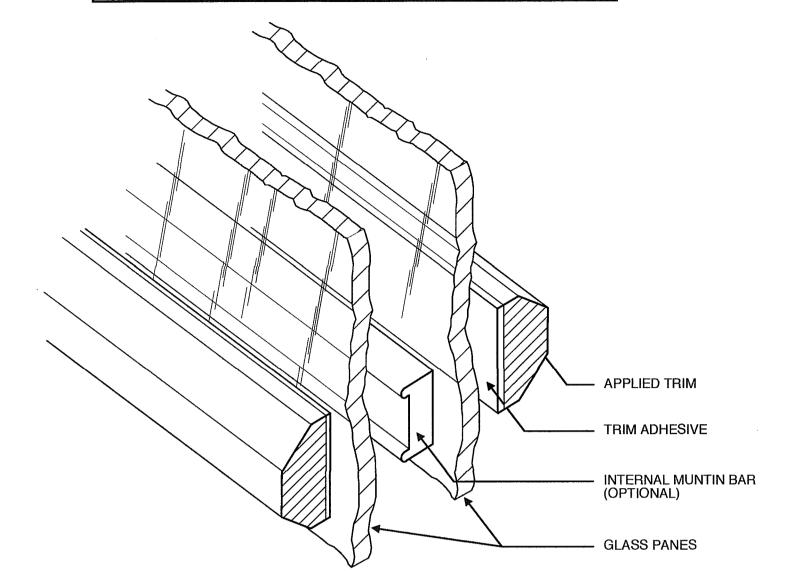
1. ALL LOCKS TO BE MASTERKEYED AS REQUIRED BY TENANT (CONTRACTOR SHALL VERIFY). 2. PROVIDE WEATHERSTRIPPING (PEMKO 316AV) FOR ALL EXTERIOR DOORS.
3. WALL STOPS SHALL BE HAGAR 237w (OR APPROVED EQUAL). FLOOR STOPS SHALL BE 241f (243f AT UNDERCUT DOORS OR DOORS WITH THRESHOLDS).

NUMBER AND LOCATIONS AS INSTRUCTED BY OWNER. 4. ALL WOOD DOORS TO BE SOLID CORE, FLUSH, STAIN GRADE, ROTARY CUT, NATURAL FACE BIRCH VENEER. 5. ALL REQUIRED EGRESS DOORS WITH LOCKING DEVICES SHALL BE FITTED IN

SCALE: 1/4" = 1'-0"

ACCORDANCE WITH NCSBC 1008.1.8.3 LOCKS AND LATCHES (SEE ARCHITECT OR LOCAL INSPECTION AGENCY FOR ADD'L INFORMATION) ALL HARDWARE SHALL COMPLY WITH ACCESSIBLITY STANDARDS PER NCSBC CH. 11 AND ANSI 117.1

VERIFY ALL HARDWARE SELECTIONS WITH OWNER PRIOR TO INSTALLATION ON DOORS OR IN TENANT SPACE.





OVERHEAD DOOR W/--FULL GLASS LIGHTS

VERIFY ALL DOOR FRAMING, TRACK AND INSTALLATIONDETAILS WITH DOOR MFGR

PROVIDE SHOP DRAWINGS FOR OWNER'S APPROVAL PRIOR TO START OF CONSTRUCTION

DOOR TRAC

(PER MFGR)

2x2 STEEL ANGLE — (PER DOOR MFGR)

INTERIOR SILL

(PER DOOR MFGR)

OVERHEAD DOOR W/ **FULL GLASS LIGHTS**

WEATHERSTRIPPING

COMPRESSIVE

FINISHED FLOOR -

EXTENSION

DOOR TRACK AVAILABLE

OVERHEAD DOOR W/ FULL GLASS LIGHTS

FROM MFR. INSTALLED BY G.C.

HEAD

JAMB

OVERHEAD DOOR

SCALE: 1 1/2"= 1'-0"

HEAD/JAMB DETAIL

VERIFY CLEARANCE

HT. OF ADJ. SPRINKLER DIFFUSER



SCALE: 1 1/2"= 1'-0"

O.H. DOOR

HEAD

EXISTING

WINDOW HEADER

JAMB

WEATHER

STRIPPING

EXISTING BLDG.

FACADE (NO CHANGES)

EXISTING SILL (NO CHANGES)

SILL

SILL FLASHING SET

IN SEALANT (PAINT TO MATCH EXIST.

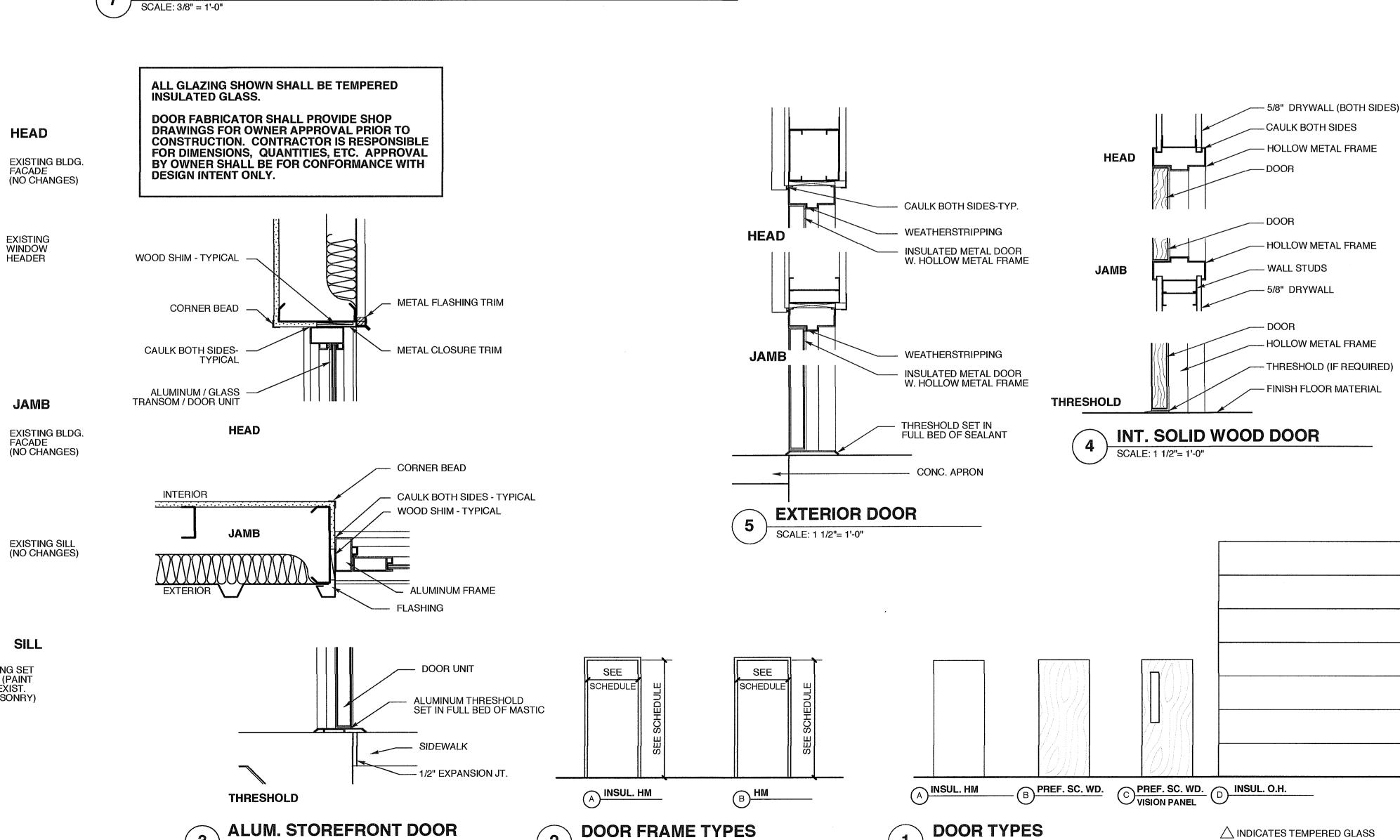
FACADE MASONRY)

SEE SCHEDULE

4'-0" MAX. (TYP.)

- PANEL FRAME

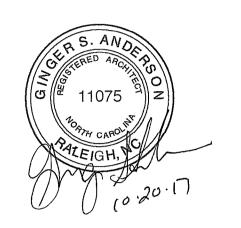
MUNTIN (TYPICAL)



SCALE: 1/4" = 1'-0"

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PROJECT TITLE **CASINO PARTY ACES**

252 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO. 1640

DRAWING TITLE SCHED/DETAILS

> SHEET 6 OF

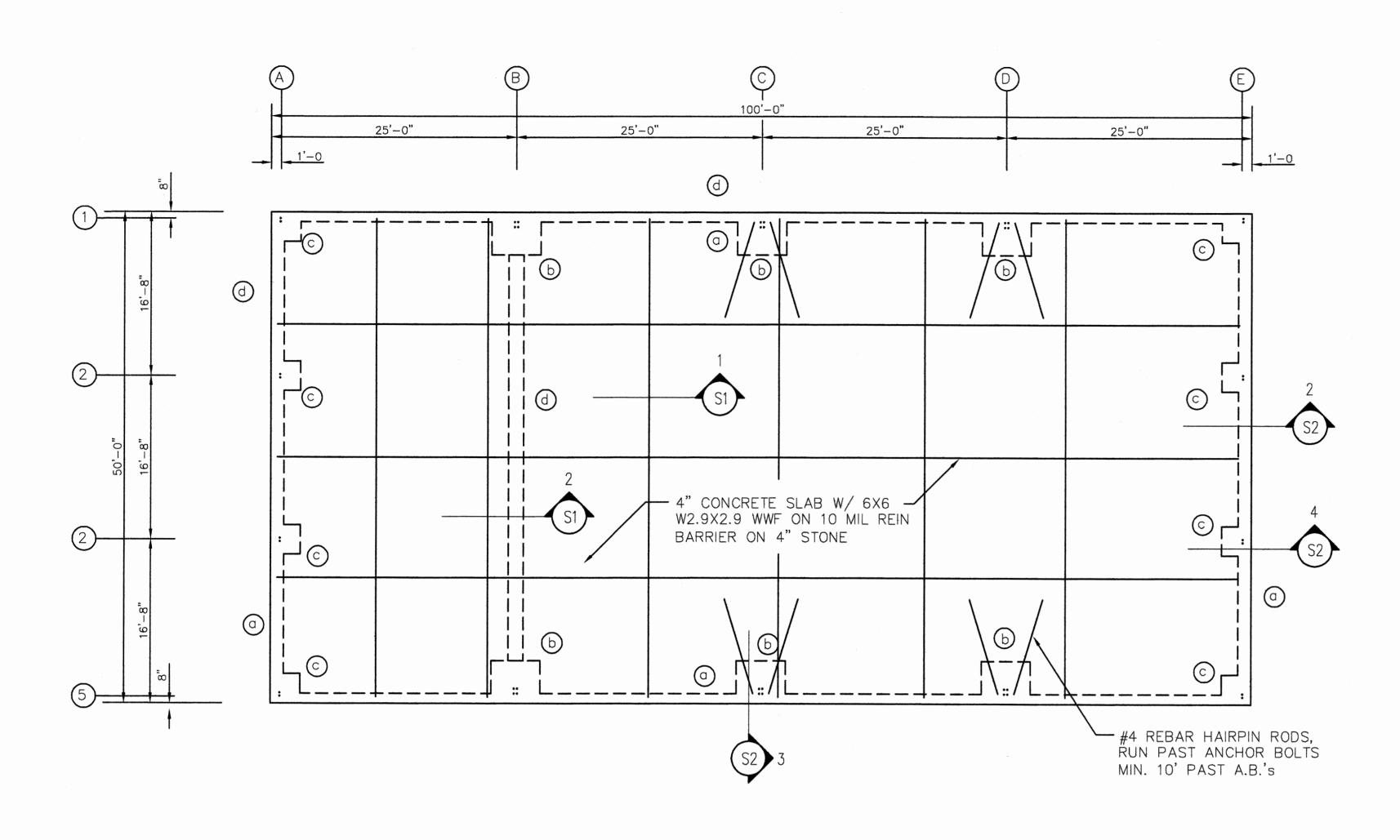
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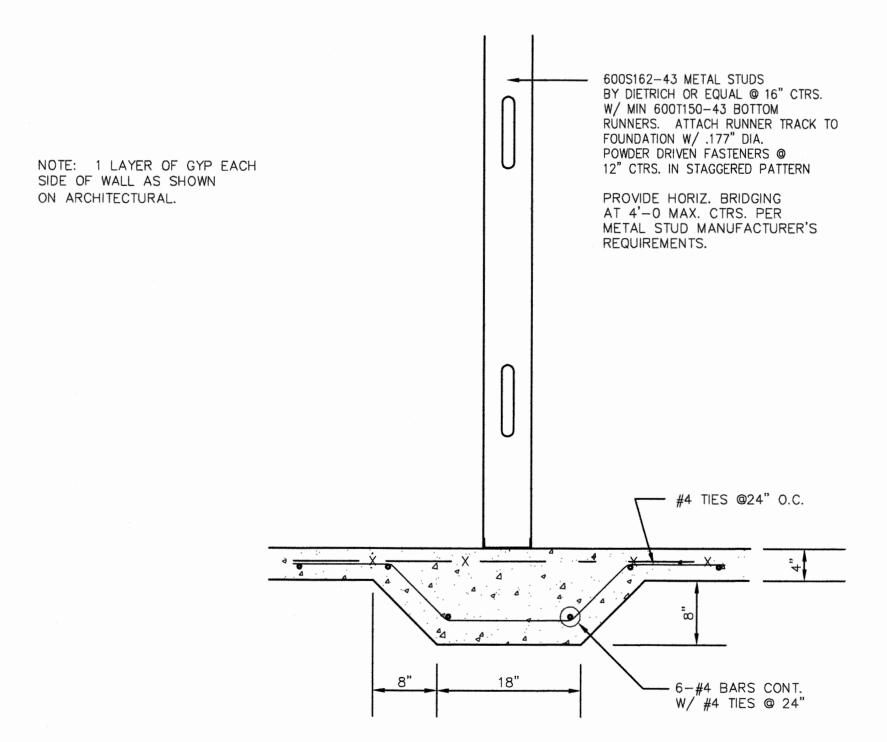


NOTE: SEE ARCHITECTURAL FOR ALL DIMENSIONING OF WALLS AND COLUMN LOCATIONS.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
а	1-6" x 1'-0" LUG FOOTING	2 #4's CONT. W/ #4 TIES @ 18"
b	5'-0" x 5'-0" x 2'-0"	6 #6's E.W. TOP & BOTTOM
С	3'-0" × 3'-0" × 1'-6"	4 #4's E.W. TOP & BOTTOM
d	18"X12" THICKENED SLAB	6 #4 BARS CONT. W/ #4 TIES @ 24"

ALL FOOTINGS BASED ON 2000 PSF BEARING CAPACITY. CONTRACTOR RESPONSIBLE FOR MEETING THIS REQUIREMENT.



SECTION: INT. WALL

S1 SCALE 1" = 1'-0"

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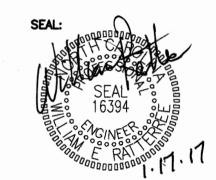
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ENGINEER

W.E. RATTERREE, PE

STRUCTURAL ENGINEER

7713 KELLEY COURT RALEIGH, NC 27615 (919) 847-8093 wratterree@nc.rr.com



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PROJECT TITLE
CASINO PARTY
ACES

252 JARCO DRIVE FUQUAY-VARINA, NC

PROJECT NO.

DRAWING TITLE
FOUNDATION

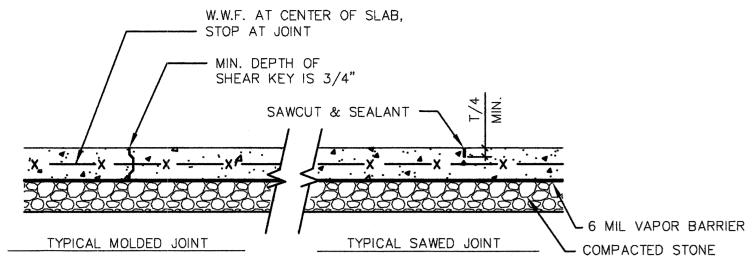
SHEET 1 OF 3



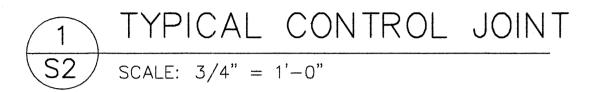
PLOT DATE 12/12/06
REVISION 00/00/04

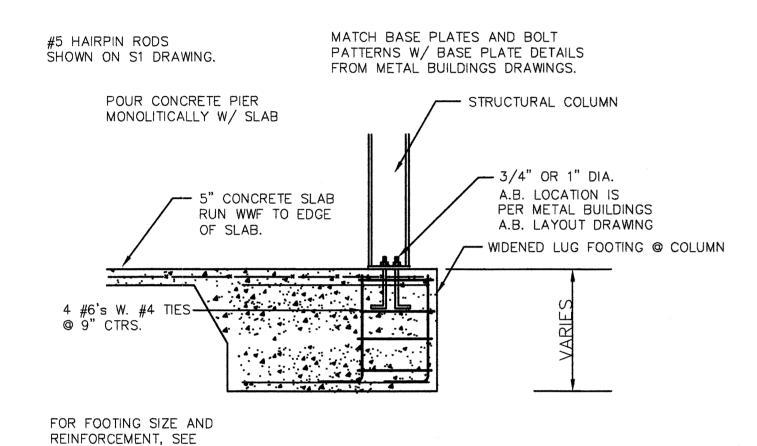
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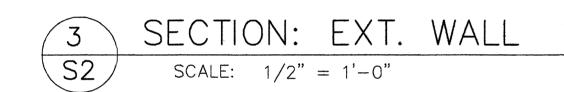
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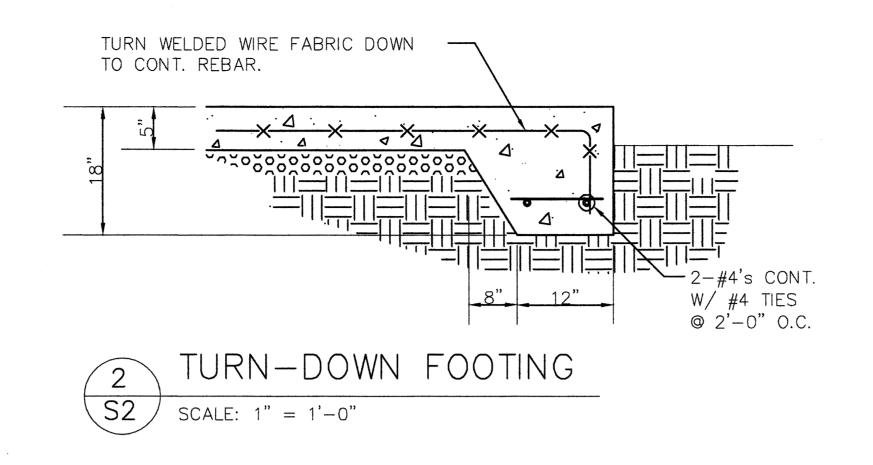


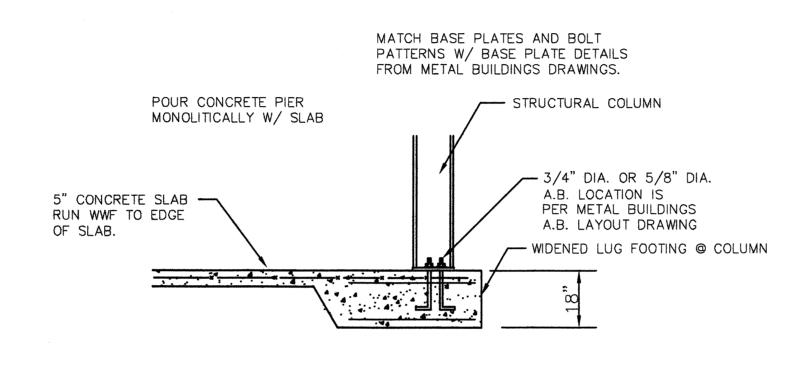
TYPE OF JOINT IS OPTIONAL WITH CONTRACTOR WITH THE EXCEPTION OF DOORWAY LOCATIONS. CONTROL JOINTS AT DOORWAYS SHALL NOT BE SAWED. "T" INDICATES THICKNESS OF SLAB.



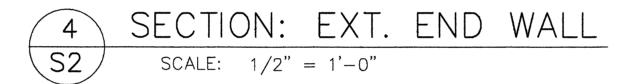








FOR FOOTING SIZE AND REINFORCEMENT, SEE FOOTING SCHEDULE ON S1.



GENERAL NOTES

FOOTING SCHEDULE ON S1.

DESIGN:

- 1. Structural design conforms to the requirements of the "North Carolina Building Code, 2012 Edition".
- 2. Live Loads used in Design:

Roof 20 psf
Office/Mech floor 50 psf
Ground Floor 250 psf

3. Dead Loads used in Design:

Roof 2 psf
Office/Mech floor 10 psf
Collateral 3 psf

4. Design wind velocity = 100 mph for Wake Co.

FOUNDATIONS:

- Foundation design is based on presumed soil bearing capacities from the latest edition of the NCSBC.
- 2. Allowable soil bearing pressure 2000 psf
 In areas where the soil does not yield this bearing stress
 value, do not proceed with work until the value is obtained.
 Proper design adjustment of footing depth and dimensions
 may be required by the structural engineer. The contractor
 shall make adjustments in the foundation work as required
 by the structural engineer.
- Footing elevations shall not be raised or lowered without approval of the structural engineer.
- 4. Place concrete for footings after cleaning existing concrete footing in area. Dowel rebar into existing footing as shown on drawings. New column footing shall bond with existing footing. Notify engineer if assumed footing does not match footing shown on drawing.
- 5. Any fill inside the building shall be select material, free from roots, trash, wood scraps, and other extraneous materials. Plasticity index shall be 25 or less. Place fill in lifts not exceeding 4" and compact each lift to 95% density at optimum moisture content as measured by ASTM D698.

CONCRETE:

- All concrete, unless otherwise noted, shall be normal weight (N.W.) with a maximum unit weight of 150 pounds per cubic foot. Concrete shall have a 28 day compressive strength, as specified below, for the respective areas:
 Footings, slabs
 3,000 psi N.W.
- Concrete work shall conform to the "Building Code Requirements for Reinforced Concrete", ACI 318, latest edition.
- 3. Place 1/2" expansion joint material between edges of slabs and vertical surfaces U.O.N.
- 4. Provide construction of control joints in slabs at locations shown on drawings, at offsets and changes in direction and at 30 feet maximum.

REINFORCING STEEL:

- Reinforcing shall conform to ASTM A615 and shall be Grade 60, unless otherwis noted.
- 2. Welded wire fabric shall be new billet steel, cold drawn, conforming to ASTM A815 and shall be supplied in sheet form.
- Bar supports, design, detailing, fabrication, and placing of reinforcing bars shall be in accordance with the ACI code and detailing manual.
- 4. Unless otherwise noted on the drawings, lap splices shall be 40 bar diameters or 12", whichever is greater.
- Provide bars at the corners and intersections of concrete walls and wall footings of the same number and size as longitudinal bars.
- 6. Fabricate continuous bars in footings to the longest practical length.

DIMENSIONS:

 The general contractor shall be responsible for reviewing the dimensions of the structural drawings and advising the Engineer of any descrepancies between general and structural drawings prior to commencing work.

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ENGINEER

W.E. RATTERREE, PE

STRUCTURAL ENGINEER
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FOR PERMIT PROCESS ONLY

PROJECT TITLE
CASINO PARTY
ACES

252 JARCO DRIVE FUQUAY-VARINA, NC

PROJECT NO.
1640

DRAWING TITLE

FOUNDATION DETAILS

HEET 2

PLOT DATE REVISION

12/12/06 00/00/04

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DIVISION 15A - PLUMBING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- 1. Plumbing fixtures, water heaters, and any other equipment necessary.
- 2. Cold and hot water piping and insulation. DWV piping.
- 4. Connection of all equipment; drain, vent,
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply.
- 1. The National Electrical Code. 2. 2012 N.C. Building Code Plumbing Edition
- 3. American Society of Sanitary Engineering Standard 1010. 4. All local codes and ordinances
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications
- require, the codes shall govern. D. The Plumbing Contractor shall be licensed in the State of
- North Carolina and have all local licenses required for the work. E. Obtain all permits, licenses, inspections, etc., required for the work,
- and pay for the same. 1.2 INTENT
- A. The intent of these specifications and accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Plumbing Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.
- 1.3 COORDINATION
- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The Plumbing Contractor shall refer to the architectural drawings for placement of equipment, fixtures, etc. Where locations are not clear, the Contractor shall obtain the exact locations from the Architect.
- C. Coordinate all exterior piping connections w/Architect, site contractor/plans. Verify manhole elevations and provide backwater valves as required if flood level rims are below next upstream manhole cover elevation. Fixtures with flood level rims above upstream manhole shall not discharge thru bw valve. Notify engineer of backwater valve requirement, any issue prior to bid.
- 1.4 SHOP DRAWINGS A. Shop drawings shall be submitted for plumbing fixtures and for pipe. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly

PART 2 - PRODUCTS

- 2.1 FIXTURES
- A. Each fixture shall be properly supported from the building structure as required to the end effect that all fixtures and accessories will be held rigidly in place. Water pipes supplying the fixtures must also be held rigidly in place.
- B. Provide loose key angle stops and chrome plated supply pipe water supplies to fixtures.
- C. All exposed piping traps and accessories for fixtures shall be chrome plated. Provide chrome plated escutcheon plates where pipes enter walls.
- D. Provide shutoff valves for all sinks, water heaters, toilets, washing machines, refrigerator icemaker, exterior hose bibbs and all other plumbing fixtures.
- E. Provide trap primers for all floor drains in areas not served by hose bibbs.

- A. Drain waste: All waste piping shall be Schedule 40 PVC-DWV with the following exceptions: Use cast iron piping in all return air plenums and penetrations of rated walls/floors/ceilings. Review Arch. and Mech. drawings. Use ABS or cast iron piping for drainage of fluid temperature greater than 140 deg. F for a minimum distance of 10'-0''.
- B. Hot and cold water piping above grade: Type "L" copper w/solder joints 3.4 INSULATION (ASTM-B88), hard drawn with wrought copper fittings (ANSI B16.22) PEX piping with copper fittings may be used with owner/tenant approval.
- C. Cold water piping below grade: Type "K" copper (ASTM-88A) soft drawn. D. Hangers: Use pipe hangers where required on 8-foot centers with
- saddles to avoid crushing insulation.
- E. Solder: 95/5. Lead free.
- F. Unions: Provide unions where indicated on drawings, in long runs of piping (except drainage) and at equipment to provide convenient disassembly. Provide dielectric unions when connecting copper tubing to equipment and piping made of ferrous materials.
- 2.3 CLEANOUTS
- A. Hex plugs in rough areas: Recessed plugs with cover plates in exposed locations.
- Provide shock arresters as required by codes, manufacturer's recommendations and accepted industry standards for qualify construction. Provide for all quick closing valves.

PART 3 - EXECUTION

- A. This contract includes complete connection of cold water, hot water, drainage, and vent piping as required. All fittings, valves, accessories, cutoffs, drains, etc., required to complete such connections shall be included.
- B. The connection to water closets shall be made watertight with gasket and wax ring. Floor flanges shall be caulked into position. Plastic caps shall be provided on the tie down bolts, and shall be secured in place by screwing down on threaded brass washers.
- C. Where water pipes connect to exposed chrome plated trim, use proper chrome plated escutcheons.
- 3.2 SERVICE ACCESS
- A. All valves and accessories shall be insulated so that they can be properly serviced. In no case shall the Plumbing Contractor install equipment or other components in situations that do not meet code requirements or manufacturer's requirements. Provide access doors as required to access valves, etc.

3.3 ROUTING OF PIPING

A. Coordinate routing of piping with others, line up work true to or at right angle to adjacent surfaces and in a workmanlike manner. Support all interior piping from building structure by means of hanger or inserts to maintain pitch of lines, to prevent vibration, and to secure piping place.

B. Space pipe hangers 8'-0" on center for one inch and smaller pipe, 4'-0" on center for 1-1/4 inch and larger pipe. Provide expansion loops as required.

C. Pipe hangers for insulated lines shall have suitable saddles to protect insulation.

- All H/W and C/W piping shall be insulated with a min. of 1" inch elastomeric insulation (R-6.5 min.) in unconditioned areas. See NCSBC-Plumbing Sect. 305 for all protection requirements. All H/W piping of circulating systems shall be insulated with 1" insulation per Sect. 504.5 of the NCSBC 2012 Energy Conservation Code. B. Provide pre-fabricated insulation kits for all sink and lavatory
- exposed drain and supply piping.

3.5 INSPECTIONS AND TESTS

- A. Before being concealed, all water, soil and vent piping shall be tested to determine if they are water— and air—tight.
- B. Prior to placing into service, entire system shall be tested for leaks in strict accordance with state and local codes.

3.6 STERILIZATION OF PIPING

A. Sterilize the new water piping thoroughly with a solution containing not less than 50 parts per million of available chlorine, using liquid chlorine, or sodium hydrochloride solution, introduced into the system in an approved manner. The sterilizing solution shall remain in the system in an approved manner. The sterilizing solution shall remain in the system for a period of 24 hours. After sterilization, flush the solution from the system with clean water until the residual chlorine content is not greater than 0.2 parts per million, unless otherwise directed.

3.7 SERVICE PRESSURE

A. Provide approved water-pressure reducing valve (PRV) if service pressure exceeds 80 psi to reduce pressure to 80 psi static or less and as required per NCSBC—Plumbing Sect. 604.8.

3.8 DRAINDOWN

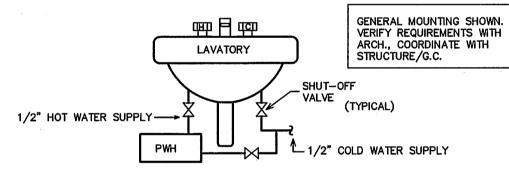
- A. Contractor to provide for complete plumbing system drain down.
- A. During construction, keep the site clear of debris and upon completion, and before final inspection, clean up the premises to remove all evidence of his work. In addition, upon completion of construction, clean, wash, and/or polish all fixtures, equipment and exposed material and leave them bright and clean.

3.10 GUARANTEES

- A. Guarantee all materials and labor included in the plumbing work for a period of one year from date of final acceptance by the Owner.
- B. Any defects in the system which become evident during the guarantee period shall be corrected without cost to the Owner. This shall include the replacing of defective materials where required, and the repair of damage caused by leaking pipes, etc., and damage to building surfaces caused in making repairs.

GENERAL NOTES

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE PLUMBING CONTRACTOR (PC) SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC).
- 3. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION AND ALL DISCREPANCIES OR INTERFERENCES BROUGHT TO THE ENGINEERS ATTENTION.
- 4. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. THE PC SHALL PROVIDE ALL MISC. ITEMS NEEDED FOR A COMPLETE SYSTEM REGARDLESS IF NOTED ON THE DRAWINGS OR NOT. FOR DIMENSIONS REFER TO ARCHITECTURAL PLANS.
- 5. THE GC SHALL PROVIDE ALL WALL, FLOOR AND ROOF OPENINGS OF THE SIZE AND LOCATION REQUIRED BY THE PC AND SHALL BE RESPONSIBLE FOR PAINTING AND FLOOR FINISHES. THE PC SHALL PROPERLY SEAL ALL PENETRATIONS AND PROVIDE ESCUTCHEON PLATES AT ALL FINISHED LOCATIONS.
- 6. ALL NEW WATER PIPING SHALL BE INSTALLED TIGHT TO STRUCTURE, ADEQUATELY SUPPORTED AND PROTECTED AND PROPERLY PITCHED TO ALLOW TOTAL DRAINAGE.
- 7. ALL WATER PIPING SHALL BE HYDROSTATICALLY TESTED FOR 2 HOURS AT 150 PSIG BEFORE COVERING AND ALL LEAKS CORRECTED. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
- 8. PROVIDE MIN. 18" SHOCK ABSORBERS WITH STOPS ON ALL HOT AND COLD WATER FIXTURE RUNS AS REQUIRED BY CODE.
- 9. VENT LINES SHALL SLOPE UP TO ALL STACKS AND TERMINATE A MIN. OF 12" ABOVE ROOF LINE.
- 10. PROVIDE CUT SHEETS ON ALL PLUMBING FIXTURES FOR ARCHITECT AND OWNER APPROVAL PRIOR TO ORDERING ANY FIXTURES.
- 11. PROVIDE HOT WATER TO FIXTURES AT 110 DEGREES (MAX) F.
- 12. PROVIDE CLEANOUTS AS REQUIRED BY CODE. NOT MORE THAN 100 FEET FOR 4" DRAIN.



1) INSTALL WATER HEATER BELOW LAV. AND/OR CONCEALED IN CABINETRY. 2) PC TO PROVIDE AND INSTALL WATER HEATER. EC TO WIRE. 3) ALL WORK MUST BE DONE IN NEAT MANNER TO BE APPROVED BY ARCHITECT AND OWNER.



System No. W-L-1001

March 28, 2003

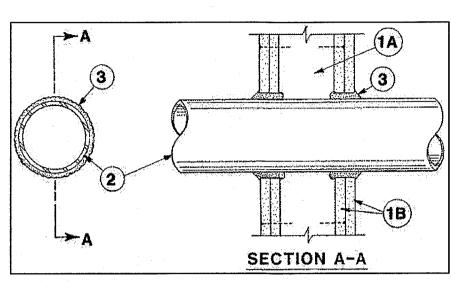
(Formerly System No. 147)

F Ratings -- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings -- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient - less than 1 CFM/sq ft

L Rating At 400 F - less than 1 CFM/sq ft



1. Wall Assembly -- The 1,2,3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL FIre Resistance Directory and shall include the following construction features:

> A. Studs -- Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in.

B. Gypsum Board* -- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26

2. Through-Penetrant-- One metalic pipe, conduit or tubing installed either concentrically or eccentrically with the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

> A. Steel Pipe -- Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -- Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit -- Nom 6 in. diam (or smaller) steel conduit or nom 4 in diam (or smaller) steel electrical metallic tubing.

D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper tubing. F. through Penetrating Product* -- Flexible

Metal Piping The following types of steel flexible

metal gas piping may be used: 1. Nom 2 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall

OMEGA FLEX INC

assembly.

2. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall

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A BUNDY CO

3. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill, Void or Cavity Material* -- Caulk -- Min 5/8, 1-1/4,1-7/8 and 2-1/2 in. thickness for caulk for 1,2,3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. dia bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

	Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	*	1 or 2	0+, 1 or 2
1		3 or 4	3 or 4
4		1 or 2	0
6		3 or 4	0
12		1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY -- CP 25WB+.

*Bearing the UL Classification Mark

SYMBOL LEGEND - PLUMBING

DESCRIPTION (U.O.N.) WASTE PIPING (W) VENT PIPING (V) _______ COLD WATER PIPING (CW) HOT WATER PIPING (HW) COFF CLEANOUT FINISH FLOOR WALL/HORIZONTAL CLEANOUT WCO/HCO CLEANOUT FINISH GRADE -PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER DIELECTRIC UNION

SHUT-OFF VALVE FREEZE PROOF, HOSE BIBB (FPHB/HB) VENT THRU ROOF (VTR)

ABOVE FINISHED FLOOR

1 HOUR FIRE BARRIER

UNLESS OTHERWISE NOTED

FREEZE PROOF, HOSE BIBB (FPHB/HB)

A.F.F.

U.O.N.

LOAD SUMMARY - PLUMBING

11.8

FIXTURE SCHEDULE - PLUMBING

PWH * POINT OF USE ELECTRIC WATER HEATER EEMAX TANKLESS WATER HEATER #SP3512, 120V, 3,500W, 29A. PROVIDE FLEX CONNECTOR BRAIDED STAINLESS STEEL. INSTALL BELOW SINK/LAV.

WC * WATER CLOSET (FLUSH TANK)

KOHLER HIGHLINE WATER CLOSET, K-3979, ADA COMPLIANT 1.6 GPF. PROVIDE

LAV* LAVATORY (WALL MOUNT)

KOHLER CHESAPEAKE LAVATORY, K-1728, VITREOUS CHINA, 4" CENTERS, ADA COMPLIANT. PROVIDE DELTA MODEL 523LF-HGMHDF FAUCET, 0.5 GPM MAX WITH GRID STRAINER. PROVIDE P-TRAP AND SHUT-OFF VALVES.

WOODFORD MODEL #19, FREEZE PROOF HOSE BIBB WITH BACKFLOW PREVENTER. COORDINATE MOUNTING W/TENANT. PROVIDE TEE KEY OR LOCK SL-17 IF REQUIRED.

WEEKS TURNER ARCHITECTURE WEEKS TURNER ARCHITECTURE, PA 3305-109 Durham Drive Raleigh, North Carolina 27603 919.779.9797 fax: 919.779.0826 www.weeksturner.com ENGINEER BURKE DESIGN GROUP, 78 CONSULTING ENGINEERS 3305-109 Durham Drive Raleigh, North Carolina 27603 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com Corp. License # C-2652

48 DEGREE TEMPERATURE RISE AT 0.5 GPM.

WITH K-4731 ADA SEAT, K-7637 SUPPLY AND STOP, WAX SEAL, CLOSET BOLT KIT. PROVIDE MODEL WITH FLUSH CONTROL ON SIDE OPPOSITE GRAB BAR. USE KOHLER WELLWORTH #K-3978 WHERE ADA COMPLIANCE MODEL NOT REQUIRED.

OR APPROVED EQUAL. SUBMIT ALL ITEMS FOR APPROVAL BY TENANT AND ARCHITECT

PROJECT TITLE CASINO PARTY ACES

252 JARCO DRIVE

FUQUAY-VARINA, NORTH CAROLINA

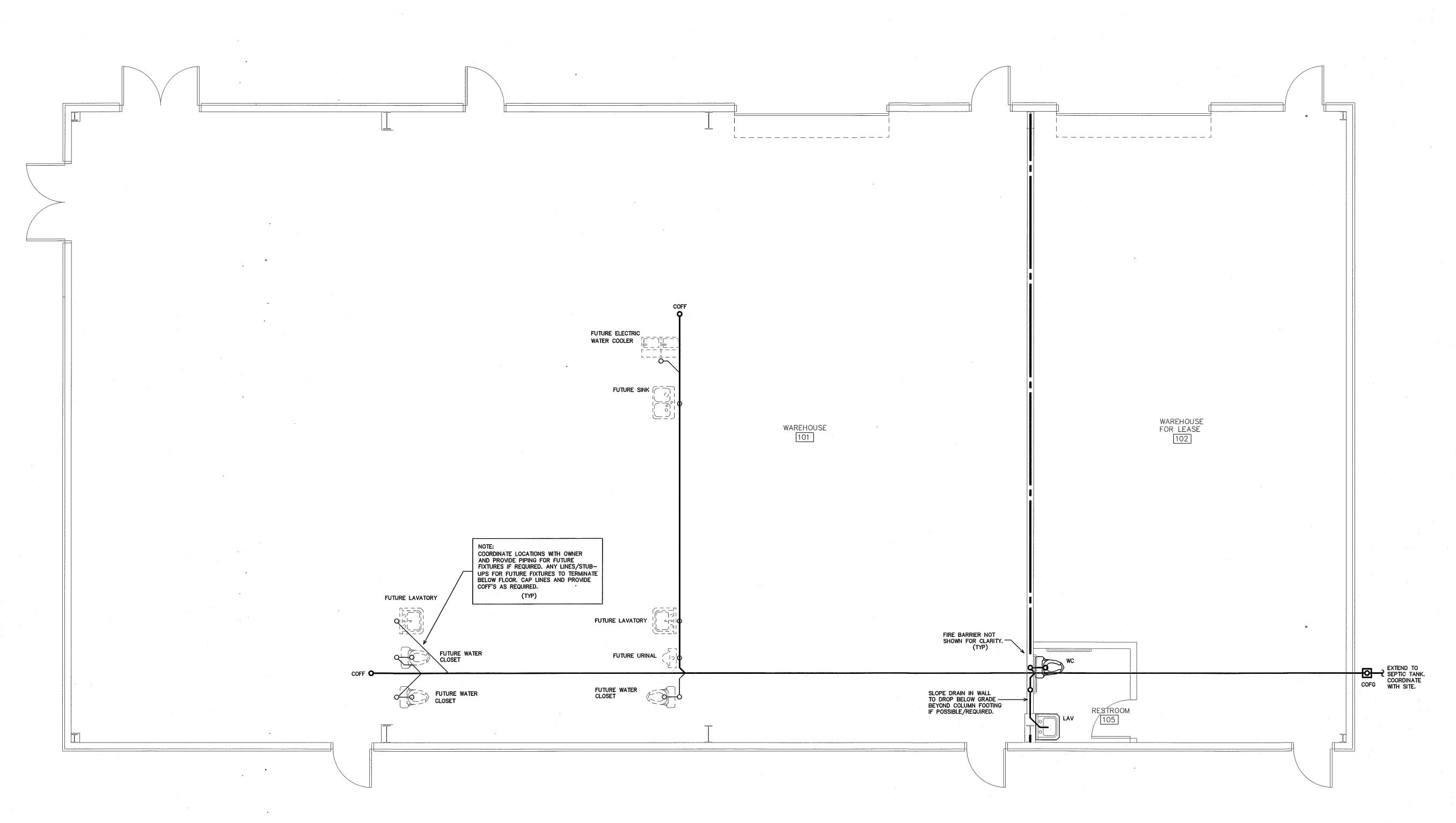
PROJECT NO.

DRAWING TITLE PI UMBING **SPECIFICATIONS**

PLQT DATE

10/24/17

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1 FIRST FLOOR DWV PLAN
SCALE: 1/4" = 1'-0"

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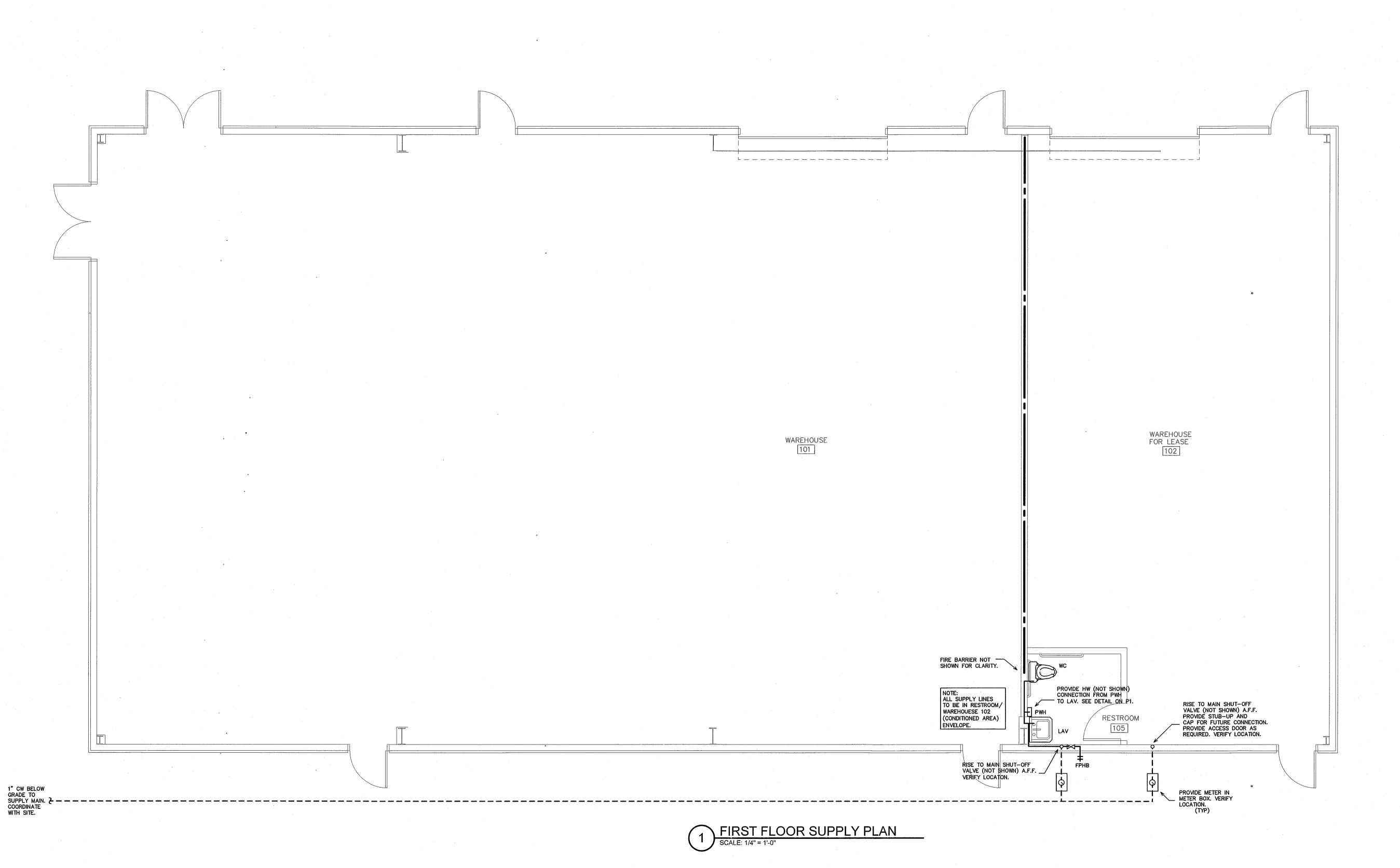
CASINO PARTY ACES

252 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

PROJECT NO. 1640

DRAWING TITLE DWV PLAN

10/24/17



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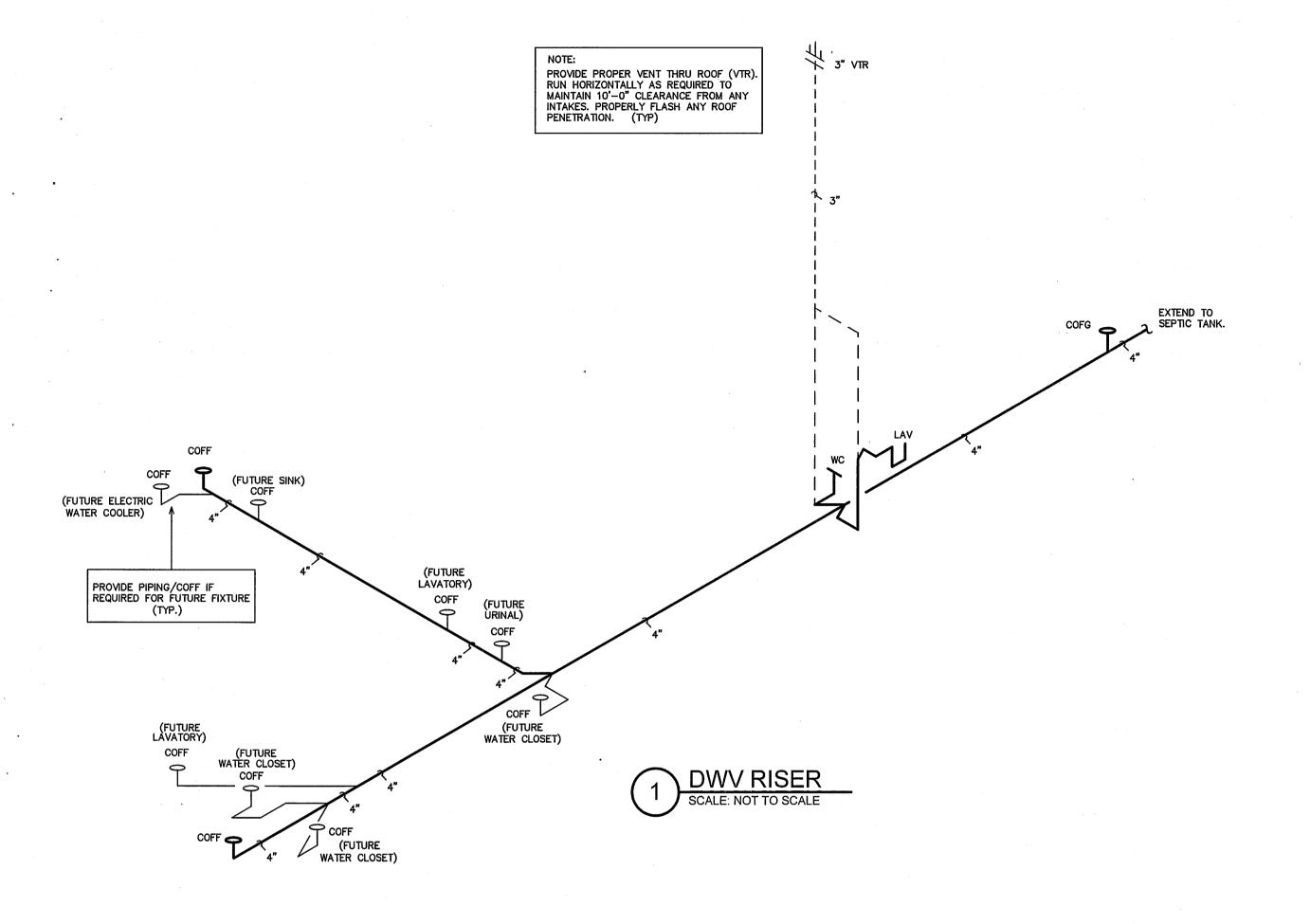
PROJECT TITLE

CASINO PARTY ACES

252 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

PROJECT NO.

DRAWING TITLE



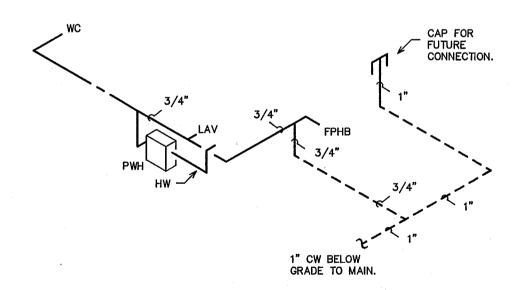
(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING	PIPE SIZING SCHEDULE				
FIXTURE TYPE	DRAIN	VENT	CW	HW	
(WC) FLUSH TANK WATER CLOSET	3"	1 1/2"	1/2"	_	
(LAV) LAVATORY	1 1/2"	1 1/4"	1/2"	1/2"	
(S) SINK	1 1/2"	1 1/4"	1/2"	1/2"	
(UR) URINAL	2"	1 1/2"	3/4"	_	
(EWC) ELECTRIC WATER COOLER	1 1/4"	1 1/4"	1/2" *	_	
(FPHB) FREEZE PROOF HOSE BIBB	* 4 <u>-</u> 4	-	1/2"	1	
(HB) HOSE BIBB		-	1/2"	_	
(VB) VALVE BOX	_	_	1/2" *	_	

PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, AND ASSE 1024 (WATTS SERIES 7 OR EQUAL) OR ASSE 1022 (WATTS SERIES SD-3 OR EQUAL) WHERE REQUIRED.

RISER NOTES:

REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE.
SEE PIPE SIZING SCHEDULE.
MINIMUM 2" DRAIN LINE SIZE UNDER SLAB.
MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED. PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.



NOTE:
SEE PLAN FOR SHUT-OFF VALVE LOCATIONS.
COORDINATE LOCATION AND NUMBER
WITH LOCAL INSPECTIONS DEPARTMENT.
PROVIDE ACCESS DOORS IF REQUIRED.

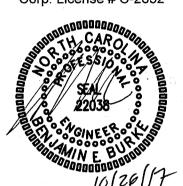


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PROJECT TITLE

CASINO PARTY ACES

252 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

PROJECT NO. 1640

DRAWING TITLE

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System No. W-L-1001

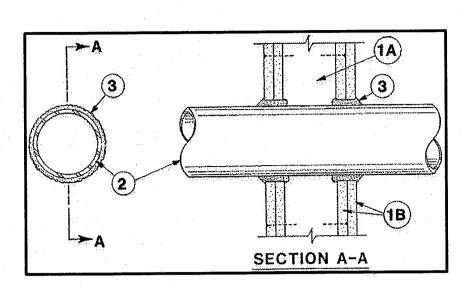
March 28, 2003

(Formerly System No. 147)

F Ratings -- 1, 2, 3 and 4 Hr (See Items 2 and 3) T Ratings -- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient — less than 1 CFM/sq ft

L Rating At 400 F - less than 1 CFM/sq ft



1. Wall Assembly -- The 1,2,3 or 4 hr fire-rated gypsum wallboard/stud wall assembl; y shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

> A. Studs --Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in.

B. Gypsum Boards -- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26

2. Through-Penetrant -- One metalic pipe, conduit or tubing installed either concentrically or eccentrically with the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

> A. Steel Pipe -Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe -Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit -- Nom 6 in. diam (or smaller) steel metallic tubing.

D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

E. Copper Pipe -- Nom 6 in. diam (or smaller) Regular (or heavier) copper tubing.

F. through Penetrating Product -- Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall

OMEGA FLEX INC

2. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall

TITLEFLEX CORP

A BUNDY CO

3. Nom 1 in diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG INC

3. Fill, Void or Cavity Material -- Caulk -- Min 5/8, 1-1/4,1-7/8 and 2-1/2 in. thickness for caulk for 1,2,3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. dia bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

Max Pipe or Conduit Diam in	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY -- CP 25WB+.

*Bearing the UL Classification Mark

DIVISION 16 - ELECTRICAL

PART 1 - GENERAL

1.1 DESCRIPTION OF THE WORK A. Work under this section includes, but is not necessarily

limited to, furnishing and installing the following: 1. Electrical service and service equipment.

2. Lighting and power distribution system. 3. Provide lighting fixtures selected by owner

with lamps to match. 4. Wiring devices, boxes, cover plates, etc.

5. Source of power for all items of equipment. Grounding.

7. Other requirements and/or systems where shown. B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct

operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:

1. The 2011 National Electrical Code.

2. The National Electrical Safety Code. 3. Underwriter's Laboratories, Inc., Standards and

4. Electrical Testing Labatories standards. 5. North Carolina Building Code, Latest Edition and Revisions.

6. All local codes and ordinances. D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the

E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work. F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough—in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 - PRODUCTS AND MATERIALS

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.

the finished surfaces.

2. Provide rated boxes in all fire barriers & walls installed per code. 2.2 NOT USED

2.3 CONDUCTORS

A. Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be: Standard Practice.

B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be UL approved.

C. Metallic sheathed "MC" cable may be used where allowed by N.E.C.

D. Conductors shall be spliced and taped as follows:

1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures. 2. Size #8 and larger shall be solderless screw and

screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.

3. No split-bolt type connectors may be used.

E. All branch wire and connections shall be copper and sized per National Electric Code.

F. All conductors shall be continuous without splice between junction. outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.

G. All wiring in mechanical spaces shall be plenum rated.

H. Provide GFI protection within 6'-0" of any sink.

I. All multi-wire branch circuits shall comply with 2008 NEC, 210.4(B).

2.4 PANELBOARDS, SAFETY SWITCHES

A. Panelboards shall comply with NEMA Standard PB 1 — Latest

Edition and as manufactured by Square D or ITE-Siemens. B. Safety switches shall be general duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.5 NOT USED 2.6 WIRING DEVICES

A. Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal. With matching cover. Color by Architect.

B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.

2.7 NOT USED

2.8 CONDUIT A. PVC conduit will be allowed where N.E.C. approved.

B. All service conduit shall be rigid where exposed to the elements or hazardous conditions.

PART 3 - EXECUTION

3.1 CIRCUIT GROUNDING

A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-95 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES

A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight

3.4 NOT USED

3.5 EQUIPMENT LABELING

A. Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.

B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.

C. All empty conduit runs shall be identified and indicated where they terminate.

D. Provide typewritten directory in each panelboard to

clearly identify each circuit, service, etc. 3.6 NOT USED

3.7 NOT USED

3.8 JUNCTION AND/OR PULL BOXES

A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.9 PULL WIRE

A. Leave pull wire in each empty conduit run.

3.10 NOT USED

3.11 GROUNDING A. All grounding shall be in accordance with Article 250 of the NEC.

In addition, the following requirements shall be met: 1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.

2. Equipment ground continuity shall be maintained through flexible metal conduit.

3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding

4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors. 5. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be

effectively and adequately bonded to ground. 6. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

A. PLUMBING WORK: The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.

B. HEATING AND AIR CONDITIONING WORK: The Electrical

Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.

3.13 CLEAN UP A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

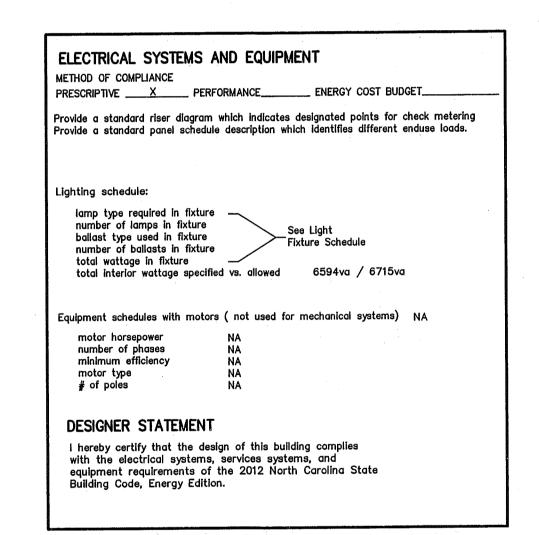
the premises to remove all evidence of work. In addition

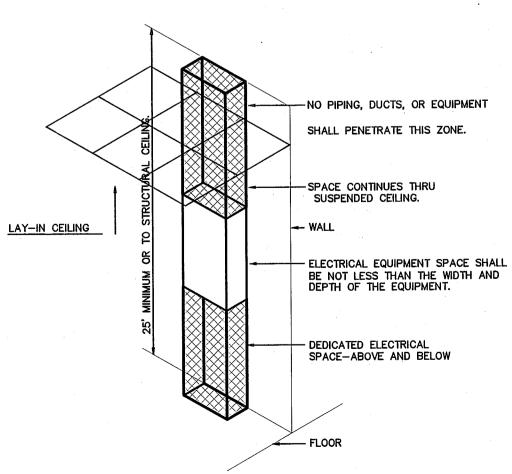
upon completion of construction leave equipment clean.

GENERAL NOTES

A PULL WIRE OR FISH TAPE/CORD.

- 1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- 2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS.
- RE-SIZE CONDUCTERS AND CONDUIT PER NEC.) 3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID
- CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F. 4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH
- 5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- 6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.
- 7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- 8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- 9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.
- 10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.
- 11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.
- 12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- 13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- 14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE





ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

DEDICATED SPACE

GENERAL LEGEND

FLUORESCENT LAY-IN FIXTURE: LETTER DENOTES TYPE OF LIGHT FIXTURE (NL) DENOTES NIGHT LIGHT REFER TO LIGHTING PLANS AND FIXTURE SCHEDULE. DUPLEX RECEPTACLE - 120V: MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; WP INDICATES WEATHER PROOF. GFI INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED. QUADRAPLEX RECEPTACLE - 120V POWER/DATA FLOOR BOX WITH HINGED DOOR EQUAL TO WREMOLD SERIES RFB9 LIGHT SWITCH - 120V NUMBER DENOTES THREE-WAY, FOUR-WAY, ETC. SWITCHING SWITCH WITH INTEGRAL INFRARED MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY. TIME CLOCK - MULTI-CIRCUIT PROGRAMMABLE, ELECTRONIC TIME CLOCK. EQUAL TO INTERMATIC T2005/6 (120/277V) OR EQUIVALENT MOTOR RATED SWITCH - 120V TELE/DATA OUTLET - PROVIDE J-BOX AND CONDUIT ABOVE THE LAY-IN CEILING. PROVIDE WIRING BACK TO MTP SINGLE-POLE HOMERUN TO PANELBOARD TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD COMBINATION EXIT SIGN & EMERGENCY LIGHT EMERGENCY LIGHT EXIT LIGHT BRANCH CIRCUIT WIRING ---- SWITCH LEG GROUND CONNECTION DISTRIBUTION PANELBOARD

MAIN TELEPHONE PANEL - PROVIDE FIRE RESISTANT 2'X2'X1/2"

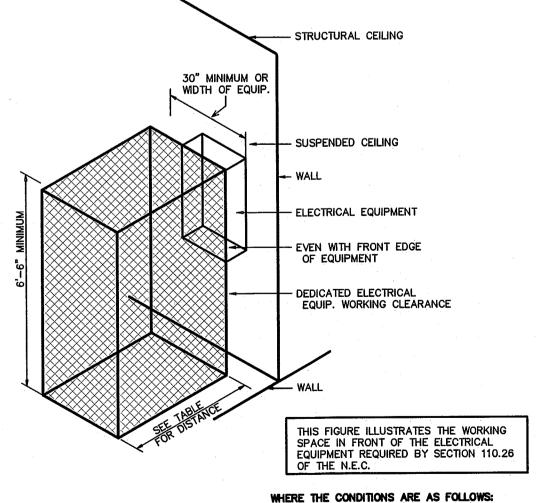
PLYWOOD BACKBOARD, MOUNTED AT LOWEST POINT AT 48" AFF,

ONE 2" CONDUITS BACK TO TELEPHONE SERVICE ENTRY POINT.

DISCONNECTING MEANS AS REQUIRED BY CODE; 208V, CLASS 3130

FIELD VERIFY EXACT LOCATIONS.

1 HOUR FIRE BARRIER



ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110.26 OF N.E.C.

WORKING CLEARANCES							
VOLTAGE TO GROUND NOMINAL			DISTANCE	IN FEET			
	CONDITION:	1	2	1.00	3		
0-150		· 3	- 3		3		
151-600		3	3-1,	/2	4		

3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK

- EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED BY INSULATING MATERIALS. 2 EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

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BURKE DESIGN GROUP, PA CONSULTING ENGINEERS Raleigh, North Carolina 27603 3305-109 Durham Drive 919.771.1916 fax: 919.779.0826 email: benburke@nc.rr.com email: benburke@nc.rr.com Corp. License # C-2652



PROJECT TITLE CASINO PARTY ACES

FUQUAY-VARINA, NORTH CAROLINA

(1) w

PROJECT NO. 1640 DRAWING TITLE

SCHEDULES

SPECIFICATIONS/DETAILS

252 JARCO DRIVE

PLOT DATE

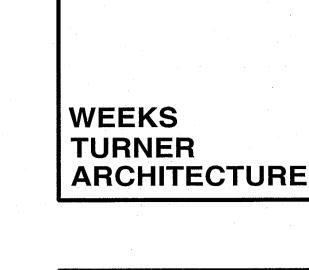
10/24/17

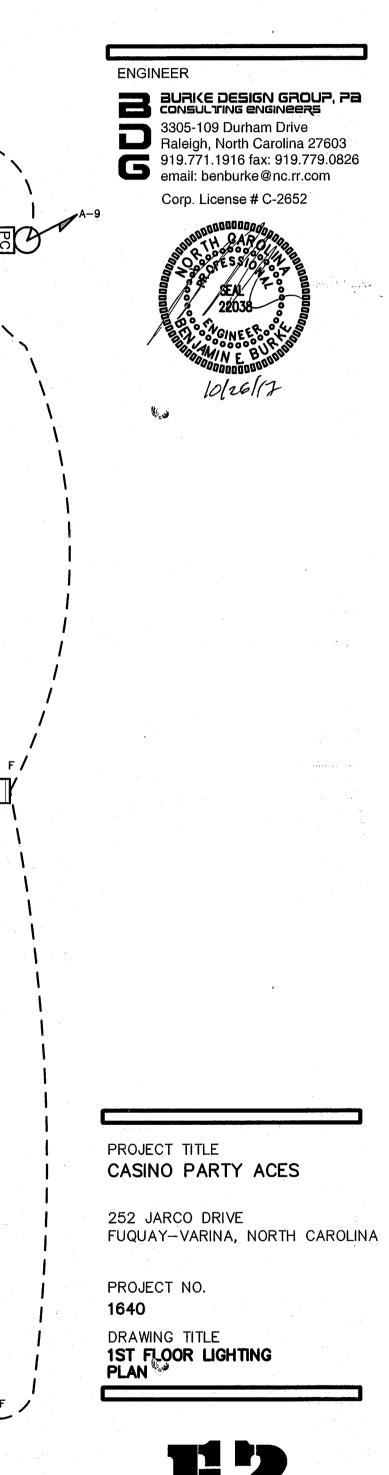
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_	SB-1	SB-2	SB-3
	6	6	6

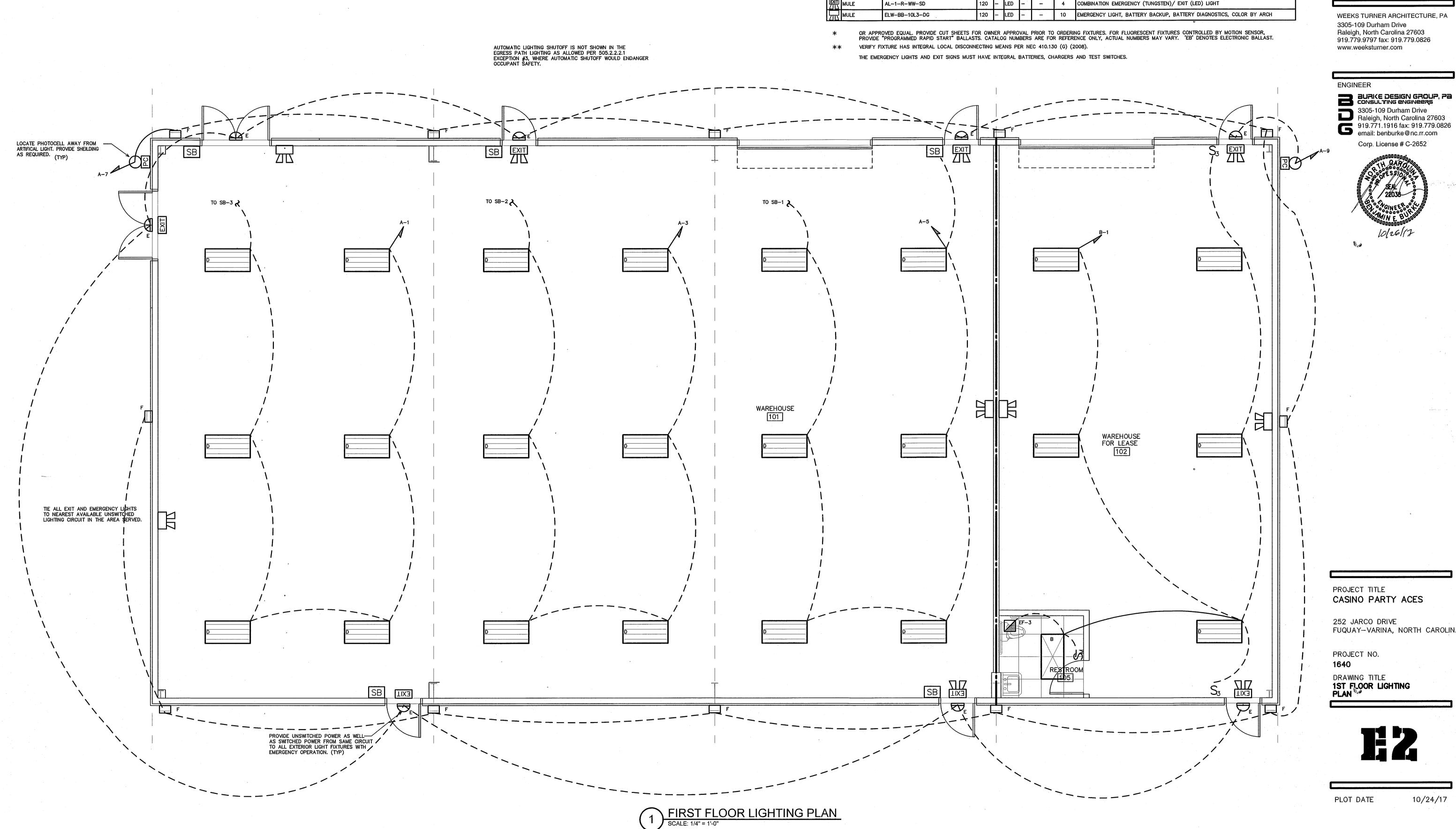
SB-1 BAY 1, 2 X 4 WAREHOUSE LED SB-2 BAY 2, 2 X 4 WAREHOUSE LED SB-3 BAY 3, 2 X 4 WAREHOUSE LED

MARK	MANUFACTURER	CATALOG NO.	VOLT.		LAMPS	S I VA	BALLAST TYPE		REMARKS
A	COLUMBIA	JT824-332G-FSA12-3EU	120	vо. З		32	EB		2X4 LAY-IN, PRISMATIC ACRYLIC LENS **
В	COLUMBIA	JT824-232G-FSA12-EU	120	2	Т8	32	EB	64	2X4 LAY-IN, PRISMATIC ACRYLIC LENS **
С	CHOSEN BY OW	NER, SUPPLIED BY EC	120	-	-	30	_	180	TRACK LIGHT, 6' OF TRACK, (PROVIDE ALLOWANCE- \$50 PER FOOT)
D	COLUMBIA	LLHV4-30L-NST-EDU	120	-	LED	144	_	144	HIGH BAY LED WAREHOUSE FIXTURE
E	MCPHILBEN	PDNB	120	2	HAL	6	_	12	EXTERIOR NORMAL/EMERGENCY OPERATION, BLACK HOUSING
F	DECO	D444-242-C-EB-BZ-EMB	120	2	CF	42	EB	84	EXTERIOR WALLPACK, EMERGENCY BATTERY
G	COLUMBIA	UC48-132-EU-WSW	120	1	Т8	32	EB	32	48" UNDERCOUNTER STRIP, ROCKER SWITCH **
Н	CHOSEN BY OW	NER, SUPPLIED BY EC	120	_	LED	25	-	25	SCONCE LIGHT, 12" FROM FLOOR, (\$175 ALLOWANCE)
J	COLUMBIA	CS4-232E-U-CSWG4	120	2	Т8	32	ЕВ	64	4' STRIP FIXTURE WITH WIRE GUARD **
EXIT	MULE	PVT-1-B-R-U-BA-SD	120	-	LED	-	_	2	EXIT LIGHT WITH BATTERY, CLEAR GLASS, UNIVERSAL SURFACE, SELF DIAGNOSTICS
訊	MULE	AL-1-R-WW-SD	120	_	LED	_ `	_	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT
• التنظيم	MULE	ELW-BB-10L3-DG	120	-	LED	-	_	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH





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NOTE:
PROVIDE A MINIMUM OF 24" HORIZONTAL SEPARATION
BETWEEN DEVICES IN RATED PARTITIONS. FIELD VERIFY
ADJACENT SPACES PRIOR TO ROUGH—IN. PROVIDE TIME CLOCK, JUNCTION BOX AND SWITCH FOR SIGN CIRCUIT. SWITCH SHALL BE LOCATED WITHIN SIGHT OF SIGN OR BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 600.6 (2008). COORDINATE LOCATION WITH TENANT. (TYP) WAREHOUSE WAREHOUSE FOR LEASE [102] RESTROOM SERVICE TROUGH

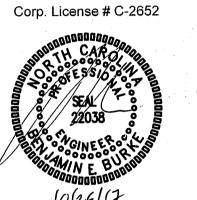
COORDINATE LOCATION AND MOUNTING OF ALL DISCONNECTS WITH EQUIPMENT SERVED. DO NOT BLOCK ANY ACCESS PANELS OR NAMEPLATE DATA. PROVIDE SEPARATE SUPPORTS IF REQUIRED.

WEEKS
TURNER
ARCHITECTURE

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PROJECT TITLE CASINO PARTY ACES

252 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

PROJECT NO. 1640

DRAWING TITLE
ELECTRICAL POWER
PLAN

PLOT DATE

10/24/17

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

1) FIRST FLOOR POWER PLAN
SCALE: 1/4" = 1'-0"

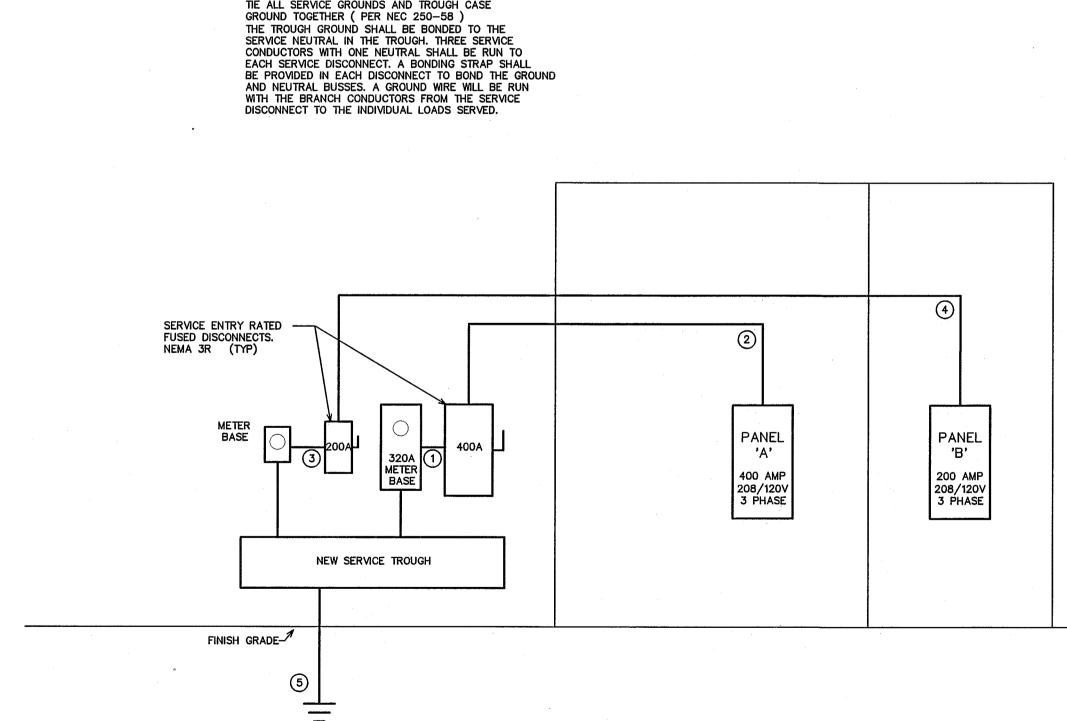
Casino Party Aces E4	MAKE: _	CUTLER	НАММ	ER R	ATING:	208/12	0V	3 PHAS	F 4 WIR	F 40	OOAMA	IN CIRC	UIT BREAKE	R	
NEW PANEL— 'A'	TYPE: _					G: FLUS		• • • • • • • • • • • • • • • • • • • •					ND BUS		□N0
			D EQUA			AIC: <u>2</u>		DOA			RVICE EI				⊠(NO
LOAD	СКТ	WATTS	S PER I	PHASE	СКТ	NEUT	RAL	CKT	WATT	s per	PHASE	CKT	- Washington	LOAD	
SERVICE	BRKR	A	В	С	NO	A B	С	NO	Α	В	С	BRKR		SERVICE	
LTS: WAREHOUSE (101) BA	Y 1 20A	864			11	\cap	1	2	720	-		20A	REC: SHOW	/ROOM #1	7
LTS: WAREHOUSE (101) BAY	Y 2 20A		864		3	\cap	$+ \cap$	4		540		20A	REC: SHOW	ROOM #2	
LTS: WAREHOUSE (101) BAY	Y 3 20A			864	5		+	6				20A	SPARE		
SPARE	20A				7			8				20A	SPARE		
SPARE	20A				9		1	10				20A	SPARE		
LTS: EXTERIOR - WALL PAG	cks 20A			1008	11	$ \bigcirc +$	+	12				20A	SPARE		
LTS: EXTERIOR - PGNS	20A	96			13		$+ \cap$	14				20A	SPARE		
SPARE	20A				15		+	16				20A	SPARE		
SPARE	20A				17	$\overline{\Box}$	1	18			1440	20A	REC: WARE	HOUSE #2	
SIGN #1	20A	1200		<u></u>	19		1	20	360			20A	REC: EXTE		
SIGN #2	20A	,	1200		21	$\cap \Box$	$\rightarrow \sim$	22		180		20A	REC: EXTE		
SPARE	20A				23		#	24				20A	SPARE		
SPARE	20A				25	$\overline{}$	$+ \cap$	26				20A	SPARE		
SPARE	20A				27	\cap	1	28				20A	SPARE		
SPARE	20A				29	\cap	\rightarrow	30				20A	SPARE		
SPARE	20A				31	\cap	\rightarrow	32				20A	SPARE		
SPARE	20A				33		1	34					SPARE		
SPARE					35	\cap		36					SPARE		
SPARE	35A				37	\cap		38				45A	SPARE		
SPARE	40.				39	$\overline{}$	1	40					SPARE		
SPARE	40A				41	\cap		42				60A	SPARE		
NOTES	SUB-TOTALS 'B'	2160	2064	1872	\bowtie	_400)A	BUS	1080	720	1440	SUB-	TOTALS 'A'		
						_400		LUGS	2340	2064	1872		TOTALS 'B'	TOTAL O	MINICOTTO 1.0
						400		FEED	3240	2784	3312		TOTAL	IOIAL C	ONNECTED LO
						<u>VERI</u>		SIZE	27A	24A	28A	AMPS	/PHASE		
NEC ALLOWABLE DE	MAND FACTO	RS	DI	VERS	IFIED	LOAD	SUM	MARY				1.7	- Armini		
1) DEMAND FACTORS P	FR NFC 220			LOAD	TYPE	-		EMAND	٨	В	С	TOTAL	. DIVERSIFIE	0.1040	
2) LARGEST OF: NEC T			CEN		JGHTING			ACTOR ①		B		IOIAL		D LOAD	<u> </u>
CONNECTED LOAD	,			CK LIG				125% 125%	1200	1080	2340		4620		
 3 NEC TABLE 220.56 4 NEC 220.51 5 NEC 220.43A, 200 VA/LINEAR FT 				ERAL L			_	0KVA@100%		720	1440		3240		
				EPTACL		RGEST		0KVA 0 50%				 		· · · · · · · · · · · · · · · · · · ·	
				IPMENT	AL	L OTHERS		100%							
	NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED				ATERS QUIPMEN)T		125% 100%							
OF THE TWO LOADS	IS COONTED				SPACE		<u> </u>	100%							
			SHO		DOW LIG	HTS		125%	1500	1500			7000		
			MIS					125% 100%	1500	1500		<u> </u>	3000		· · · · · · · · · · · · · · · · · · ·
						PHASE		TAL VA)	3780	3300	3780		10860		
								TOTAL AMPS	32A	28A	32A		N.T. AMPS IS X 1.732	53 A	TOTAL AMPS
			a					7441.0					<u> </u>		- runi O

TIE ALL SERVICE GROUNDS AND TROUGH CASE

NEW PANEL— 'B'	MAKE: _ TYPE: _					208/120 G: _FLUSH		PHASE	E <u>4</u> WIR				UIT BREAK ND BUS		. □N
			D EQUA			AIC: 22		A					ATED		
LOAD	CKT	WATT	S PER I	PHASE	СКТ	NEUTR.	AL C	ЖΤ	WATT	S PER	PHASE	СКТ		LOAD	
SERVICE	BRKR	Α	В	C	NO	ABC		NO	A	В	C	BRKR		SERVICE	Ξ
LTS: WAREHOUSE (104) & BATHROOM	20A	768			1			2	360			20A	REC: EXT	ERIOR & W	AREHO
SIGN	20A		1200		3	\cap		4		720		20A		EHOUSE (1	
SPARE	20A				5	\cap	$\overline{}$	6			360	20A	REC: WAR	REHOUSE (1	04) #
SPARE	20A				7	\cap		8	180			20A	REC: EXT	ERIOR GFI	
SPARE	20A				9	\cap	$\overline{\ }$	10		180		20A	REC: BAT	HROOM GFI	
SPARE	20A				11		$ \overline{} $	12			3500	30A	PWH		
SPARE	20A				13	$\overline{}$		14					SPACE		
SPARE	20A				15			16					SPACE		
SPARE	20A				17			18					SPACE		
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HP-3: 2-TON UNIT			1716		39			40		3245				2-TON UNIT	•
12.8 RLA COMP, 0.5 FLA FAN	25A			1716	41			42			3245	35A	ŧ	OTOR, 18.1	
NOTES SUB-TOT	ALS 'B'	768	2916			_200A	BU		2040	4145	7105	SUB-	TOTALS 'A		
		,,,,,,	120.0	1.77.0	IVVV	_200A	LU	_	768	2916	1716		TOTALS 'B	7	
						200A	FEI		2808	5991	5576		D TOTAL	TOTAL C	ONNEC
						VERIF			24A	50A	47A		/PHASE	1	
NEC ALLOWABLE DEMAND I	ACTO	RS	DI	VERSI	FIED	LOAD S				OOA	1 1//	i Aivii S	/ I TIAGE	<u> </u>	
1) DEMAND FACTORS PER NEC 2				LOAD			DEMA	ND	Α	В	С	TOTAL	DIVERSIFI	FD LOAD	
2 LARGEST OF: NEC TABLE 220	.12 OR		GEN	IERAL L	IGHTING	<u> </u>		OR①	960				960		
CONNECTED LOAD				CK LIGH			125	%							
③ NEC TABLE 220.56				IERAL U EPTACL			≤10KVA		540	900	360		1800	<u> </u>	
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							įΩ	PS	13A	56A	75A	بالجيد ا	TS X 1.732	= 83A	AM

Casino Party Aces E4 EQUIF	PMEN	V TV	VIRIN	IG	SCHEDULE
EQUIPMENT	MCA	МОСР	VOLTS	PH	WIRE SIZE
AHU-1	53.8A	60A	208V	1	2-#6, 1-#10 GND IN 3/4" CONDUIT
HP-1	28.5A	40A	208V	1	2-#8, 1-#10 GND IN 3/4" CONDUIT

NOTE: THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH—IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.



1) ELECTRICAL SERVICE RISER
SCALE: NOT TO SCALE

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING PRIOR TO RELEASING GEAR. AIC RATING ON PANELS ARE FOR PERMIT REVIEW AND PRICING ONLY. EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

RISER WIRING SCHEDULE

2 400A: 4-#500MCM, 1-#3/0 CU GND, IN 3 1/2" CONDUIT

NOTE:
UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT.
PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT.
SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.

#3/0 CU GND TO BUILDING STEEL, FOUNDATION STEEL AND METALLIC WATER MAIN AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

4) 200A: 4-#3/0, 1-#6 CU GND, IN 2 1/2" CONDUIT

1 400A: 4-#500MCM IN 3" CONDUIT

3 200A: 4-#3/0, IN 2" CONDUIT

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PROJECT TITLE CASINO PARTY ACES

252 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.

DRAWING TITLE PANEL & RISER

PLOT DATE

10/24/17

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HVAC E	QUIPMENT SCHEDULE
HVAC SYSTEM #1	
AHU #1 DIRECT EXPANSION FAN COIL UNIT	CARRIER MODEL #FX4DNB025, 4 WAY, MULTIPOISE FAN COIL UNIT. 3.8 KW HEATER. * NOMINAL CAPACITY = 24,000 BTUH. 800 CFM NOMINAL. PROVIDE HARD SHUT-OFF TXV VALVE. 2 TON NOMINAL. PROVIDE PROGRAMMABLE THERMOSTAT AND FILTER RACK WITH HINGED DOOR. 1/3HP, 2.8A MOTOR FLA, 18.1A HEAT FLA, 208V, 1 PH, 31.2A MCA, 35A MOCP AHU & HEAT.
HP #1 OUTDOOR HEAT PUMP UNIT	* CARRIER MODEL #25HCC524A0030, 2 TON OUTDOOR HEAT PUMP UNIT, 15 SEER, PROVIDE CYCLE PROTECTOR, LOW PRESSURE SWITCH, CRANKCASE HEATER, 208 VOLT, 1 PHASE. COMP 12.8A RLA, FAN 0.5A FLA, OUTDOOR HEAT PUMP 16.5A MCA, 25A MOCP.

^{*} OR APPROVED EQUAL

EXH	AUST FAN EQUIPMENT SCHEDULE	
EF-1 EXHAUST FAN #1	* CARNES MODEL# VCDD010C EXHAUST FAN, 93 CFM @ 1/4" SP, 640 RPM, 1.1 AMPS, 120V. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWTCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, 6" RIGID DUCT TO EXTERIOR, FLASHING AND WALL CAP. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES. FAN SHALL HAVE BACKDRAFT DAMPER TO COMPLY WITH 2012 NC ENERGY CODE, SECTION 503.2.4.4.	

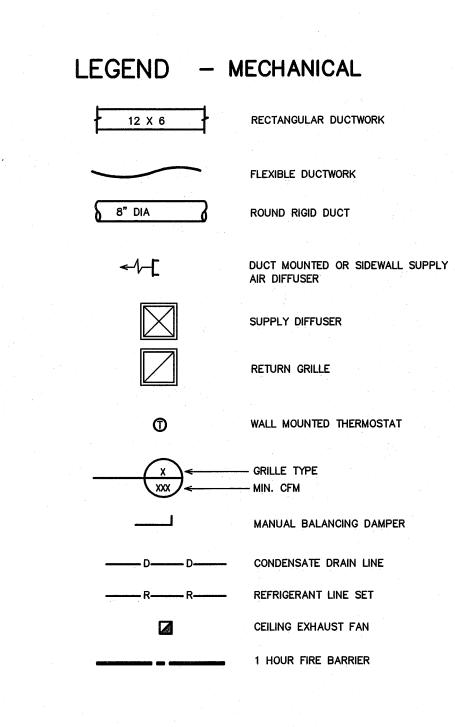
^{*} OR APPROVED EQUAL

	IR DIS	TRIBUT	TION S	CHEC	DULE		
MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	SPAB224	SEE FLEXIBLE DUCT SCHEDULE	24" X 24"	STEEL	SUPPLY	LAY-IN CEILING, WHITE 4-WAY BLOW
В	CARNES	RTDBH	12" X 4"	14" X 6"	STEEL	SUPPLY	WHITE, DUCT MOUNTED DIFFUSER

COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING. * OR APPROVED EQUAL

GENERAL NOTES - MECHANICAL

- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- 2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
- 4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- 5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- 6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED
- 7. THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
- 8. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- 9. INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
- 10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- 11. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
- 12. FANS AND CURBS. CURBS AND FLASHING ARE BY THE GENERAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY THE ORIGINAL ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
- 13. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL PROVIDE ALL REQUIRED ROOF AND FLOOR PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 14. PROPERLY SUPPORT ALL DUCT WORK & FANS FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 15. RELOCATE ANY EXISTING OBSTRUCTIONS IN THE PATH OF THE NEW DUCTWORK AND FAN INSTALLATION. FIELD VERIFY PRIOR TO SUBMITTING BID.



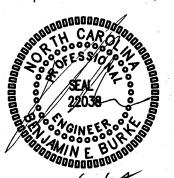
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OUTDOOR AIR CALCULATIONS

OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3 NCSBC MECHANICAL CODE. (WAREHOUSE ROOM 104 ONLY)

CFM/SQ.FT. EXHAUST
CFM/SQ.FT. EXHAUST
0.06 CFM/SQ.FT.
CFM/PERSON
70 CFM/FLUSHING FIXTURE
Y TRANSFER AIR

OUTDOOR AIR CALCULATIONS

AHU #1 - 100 CFM, 8" DIA. OUTSIDE AIR DUCT.

OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3 NCSBC MECHANICAL CODE. (WAREHOUSE ROOM 104 ONLY)

OUTSIDE AIR PROVIDED BY NATURAL VENTILATION PER NCSBC: MECHANICAL CODE, SECTION 402. 3675 SQ.FT. TOTAL X 0.04 = 147 SQ.FT. REQUIRED FREE AREA. OPERABLE DOORS TO EXTERIOR PROVIDE 291 SQ.FT. OF FREE AREA.

MECHANICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE:

Thermal Zone

Exterior Design Conditions

93 F

Interior Design Conditions winter dry bulb summer dry bulb

relative humidity

Building Heating Load (Warehouse Room 104 Only) Building Cooling Load (Warehouse Room 104 Only)

18,800 BTU/hr

Mechanical Spacing Conditioning System Unitary - The building is served the following systems:

(1) One 2 ton split system heat pump.

Not applicable to this project. Equipment efficiencies

Efficiencies and outputs are listed on equipment schedules — See drawings.

Equipment schedules with motors. Motors used on this project are included in the efficiency rating of the unit. See drawings for efficiencies.

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building compiles with the mechanical system and equipment requirements of the 2012 North Carolina State Building, Code: Energy Conservation Code.

PROJECT TITLE CASINO PARTY ACES

252 JARCO DRIVE FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO. 1640

DRAWING TITLE HVAC SCHEDULES



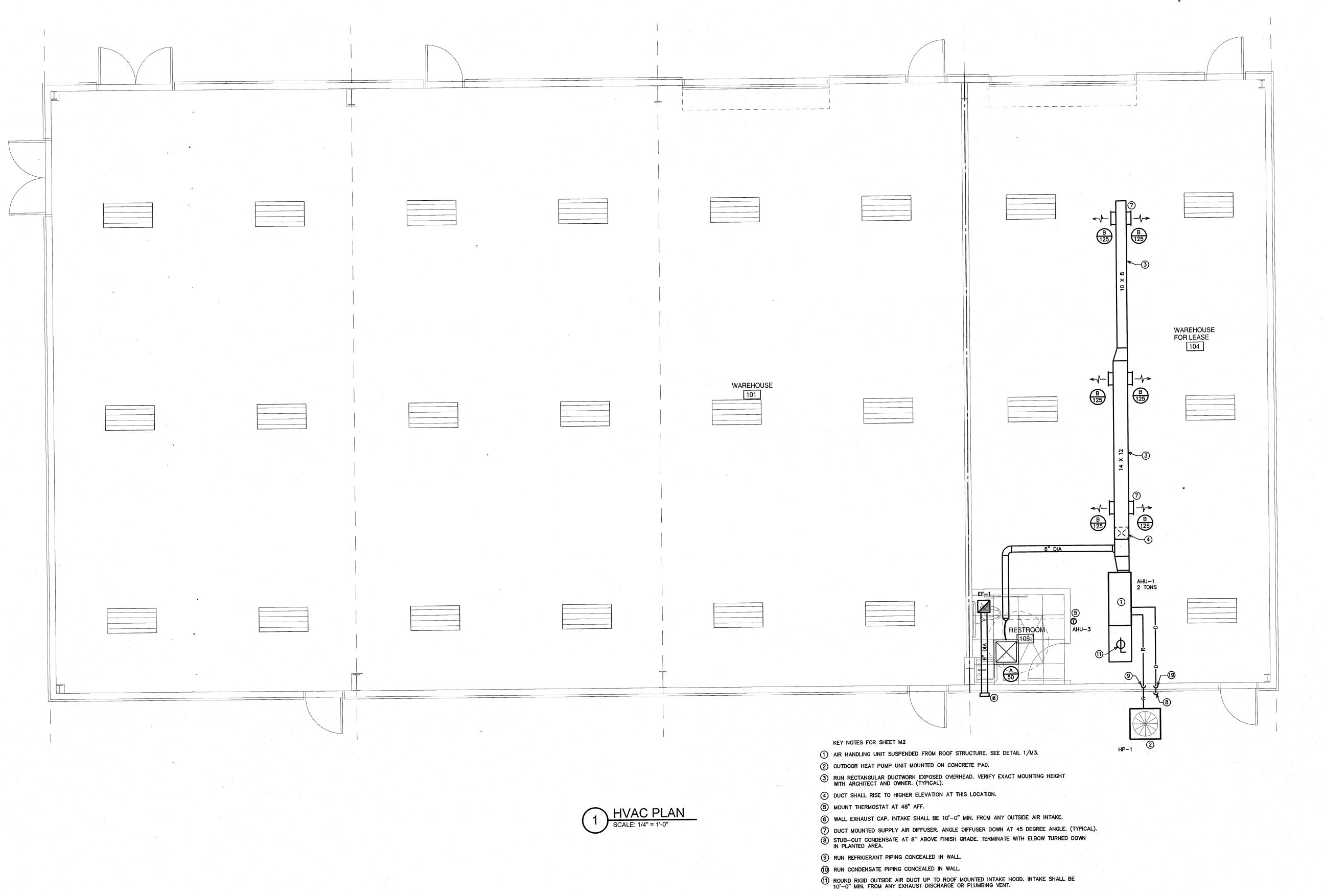
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NOTE: 1. AHU HEATER KW RATINGS ARE AT 208 VOLTS.

^{2.} PROVIDE OUTDOOR T'STAT TO PREVENT ELECTRIC HEAT OPERATION WHEN HEAT PUMP CAN MEET THE HEATING LOAD



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PROJECT TITLE

CASINO PARTY ACES

252 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

PROJECT NO. **1640**

DRAWING TITLE HVAC PLAN

M2

PLOT DATE

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DIVISION 15 B - HEATING, VENTILATING AND AIR CONDITIONING

- 1.1 DESCRIPTION OF THE WORK
- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
- Heating, ventilation, and air conditioning equipment.
 Ductwork.
- 3. Grilles and diffusers.4. Controls and control wiring.
- 5. Condensate piping.
- B. All work under this contract shall be installed in compliance with the latest edition of the following codes and standards insofar as they apply:
- 1. ASHRAE Guide
- National Electric Code.
 2012 NC State Building Code: Mech Code.
- 4. The Electrical Specifications for this project.

 5. SMACNA HVAC Dust Construction Standards
- 5. SMACNA HVAC Duct Construction Standards.6. All local codes and ordinances.
- 7. ARI rating.8. 2012 NC State Building Code: Energy Conservation Code.
- C. These codes are minimum standards. If codes require a more stringent method of construction than the specifications require, the codes shall govern.
- D. The HVAC Contractor shall be licensed in North Carolina and have all local licenses required for the work.
- E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same.

1.2 INTENT

A. The intent of these specification and the accompanying drawing is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The HVAC Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Owner of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Owner for a decision before resuming operations.
- B. Locations shown are approximate. The HVAC Contractor shall verify with owner, the placement of equipment, fixtures, outlets, etc. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required.
- C. Changes in duct or piping design caused by obstructions shall be submitted to Engineer in sketch form for study and comment prior to execution. Additional cost will not be allowed for this type of work.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be submitted for all major items of equipment, These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified. Shop drawings shall include but are not limited to the following:
- All equipment and accessories.
 Grilles and diffusers.

PART 2 -PRODUCTS

- 2.1 EQUIPMENT
- A. All air handling devices must have the manufacturer's recommended filter rack, for 1" thick filters.

2.2 PIPING

A. Condensate drain piping shall be PVC pipe. Provide tee and plug at changes in direction. Route pipe to closest roof drain or scupper. Properly support all lines. Coordinate supports with roof type.

2.3 DUCTWORK

- A. Ductwork shall be built in accordance with SMACNA HVAC Duct construction standards. Furnish and install all supply, return, and ventilation ductwork shown, together with splitters, deflectors, dampers, etc. This work shall be constructed of new galvanized prime grade steel sheets. The gauges of metal to be used and the construction and bracing of joints shall be in accordance with the SMACNA recommendations.
- B. Seal all sheet metal joints with fiber impregnated mastic.C. Support from building structure on strap hangers not over 8 feet apart.
- D. Use manufactured turning vanes in each elbow where required or where indicated on drawings.
- E. Flexible connectors shall be 3 inches wide, of fireproof material and used to isolate noise between equipment and ductwork on supply and return side of all units.

- F. Round runouts, where used, shall be built in accordance with the above standards, and each runout shall also have manufactured side take off, adjustable quadrant damper at all accessible locations and shall be of Owens Corning INL—25 flexible duct with UL label. Flex duct lengths allowed up to 14 feet. Duct must be supported with sufficient hangers in order to prevent sags. Serpentine routing will not be permitted. Quadrant damper to be 22 gauge easily adjustable manually with exterior handle (similar to H&C Kwik—set) and is not to be mounted in side take—off.
- 2.4 DUCT INSULATION (LOW PRESSURE)
- A. All insulation, linings, coverings and adhesives shall have a flame spread classification of 25 or less and a smoke developed rating of not more than 50, exposed exterior piping.
 B. All duct insulation shall comply with Section 604, of the N. C. Building Code: Mechanical Code
- C. All supply and return ductwork shall be completely insulated, either internally or externally.
- D. Rectangular ductwork shall be lined with two—inch thick,
 1.5 lb. per cubic foot density, duct liner, Armstrong, CSG Ultraliner, Johns Manville or approved equal.
- E. As an alternative to duct liner rectangular duct may be wrapped with Class I 2", 3/4 lb. density (R-6.5) thick reinforced foil back fiberglass insulation, Owens-corning Series ED or equal. Tape shall be Kraft reinforced foil tape or equal.
- F. Exhaust air duct does not require insulation, unless otherwise noted on the plans.
- G. Insulation shall be held inplace with adhesive and welding pins 16" on center.
- H. Duct dimensions shown on the drawings are Net Inside Dimensions

2.5 THERMOSTATS

- A. Provide programmable electronic thermostat.
- B. Submit proposed thermostats for approval.

2.6 ROOF PENETRATIONS

A. Provide pre-manufactured roof flashings compatible with equipment served.B. Coordinate roof work with roof system used. Provide proper flashing as required.C. Provide 1 year warranty on all roof work performed.

2.7 DUCT SMOKE DETECTORS

A. Duct detectors are not required since units air flows are 2000 cfm or less per NCSBC: Mechanical Code, Section 606.2.

PART 3 - EXECUTION

3.1 PIPING

- A. The HVAC Contractor shall coordinate such routing with others, to line his work true to adjacent spaces and in a workmanlike manner and to use only short radius 90 degree elbows. Where required, piping to be sturdily supported and separated in a manner satisfactory to the Engineer.
- B. The HVAC Contractor shall paint all exterior refrigerant piping. with UV resistant paint as recommended by the closed cell insulation manufacturer.
- C. The HVAC Contractor shall paint all exterior gas piping.

 Corrdinate exact color with local inspections department. Provide labeling as to type of gas and pressure the length of the piping system.
- D. Insulate all condensate lines for their entire length with 1/2" closed cell insulation. Install insulation per the manufacturers recommendations.

3.2 ELEÇTRICAL WORK

- A. The electrical contractor shall provide all switches, starters, wire conduit for the air conditioning, heating and ventilation equipment. Control wiring shall be by the heating and air conditioning contractor.
- B. HVAC Contractor is responsible for verifying that power terminals have been properly grounded prior to operating equipment and must find connections to all equipment including control wiring.
- C. All materials and workmanship shall be in accordance with the electrical specifications for the project. All wiring shall be color coded, and as—built wiring diagram prepared showing all connections and colors of wiring and delivered to the Owner.
- D. Furnish certification for acceptance of control wiring from local electrical inspector prior to acceptance.

3.3 CLEAN UP

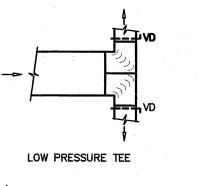
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.
- B. Furnish one box of clean filters, for each size required, at the time of final inspection to the owner.

3.4 OPERATOR'S MANUAL AND DIAGRAM

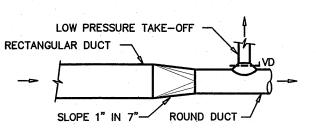
- A. The HVAC Contractor shall prepare in one copy a manual describing the proper maintenance and operation of the systems. This manual shall not consist of standard factory instructions (although these may be included) but shall be prepared to describe this particular job.
- B. The manual shall be bound, indexed, dated and signed by the HVAC Contractor.
- C. Qualified representative of the HVAC contractor shall meet with the designated representatives of the Owner and the Owner's representative shall be instructed in the proper operation and maintenance of the control system and other systems.

3.5 GUARANTEE

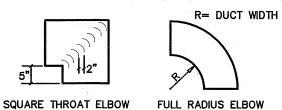
- A. Guarantee all materials and labor included in the HVAC work for a period of one year from date of final acceptance by the owner. In addition, motor compressors shall be a nonprorated five year warranty. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the
- B. The HVAC Contractor shall conduct a complete test and balance of the entire system. This includes airflow checks at all inlets and outlets, at all duct branch lines, and a duct transverse at the return and supply of each unit. Adjust all airflows to within 10% of design airflows. Provide a bound test and balance report for the Architect and Engineers review. After 90 days of occupied use the contractor shall return and balance system per individual comfort needs of the tenants. Balance airflows and shift locations of thermostats if required for tenant comfort.



LOW PRESSURE BRANCH TAKE-OFF

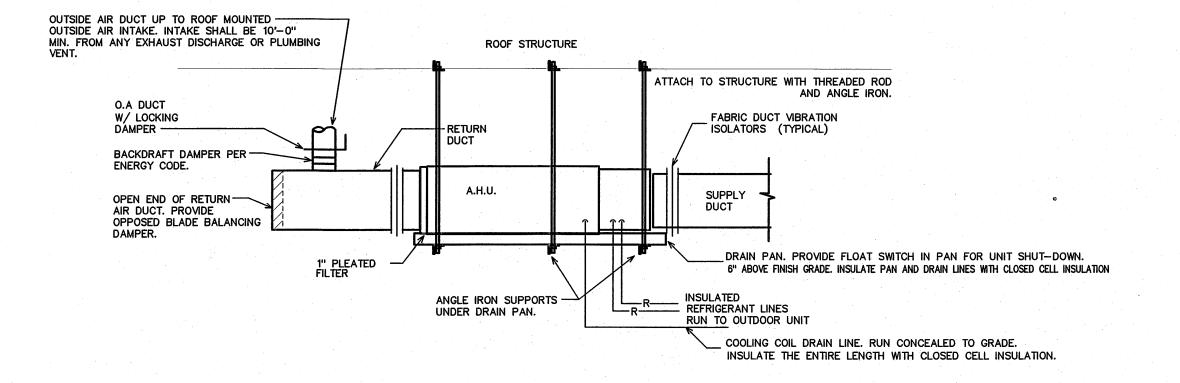


RECTANGULAR TO ROUND TRANSITION



LOW PRESSURE DUCT ELBOWS

2 DUCT CONSTRUCTION DETAILS
SCALE: NOT TO SCALE



1 SUSPENDED AIR-HANDLING UNIT DETAIL

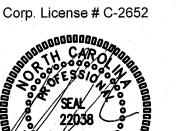
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PROJECT TITLE

CASINO PARTY ACES

252 JARCO DRIVE FUQUAY—VARINA, NORTH CAROLINA

PROJECT NO. **1640**

DRAWING TITLE
HVAC SPECS. & DETAILS



PLOT DATE

10/24/17

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Emergency Services Department

www.harnett.ceo

Application for Plan Review and Scht

A	pplication # 14 - 50039818
Date Received:	Received By: A QUISM PAY
Name of Project:	CASINO PARTY ACES
Physical Address of Project:	252 JARCO DE.
	Fugury YARINA, NC
Plans Submitted By:	Myman Nicitos
Project Phone:	(910)-323-1944
Contact Person/Address:	Nyman Nictors Nictors Biogs FAK.
	1010 CEDAR CREEK RD.
	FAY. N.C. 28312
Contact Email:	NICBEDGS@EARTHLINKONET
Contact Phone:	(910)-323-1944 (
Contractor's Name/Info:	SAME
Contractor's Phone:	(910)-323-1944

- Plans that are submitted will be reviewed as quickly as possible with an <u>average time of review</u> between 7-10 working days.
- Status checks may be conducted on plan reviews by visiting the website http://hteweb.harnett.org/Click2GovBP/Index.jsp or by calling the Harnett County Central Permitting Office (910-893-7525, Option #2), or the Harnett County Fire Marshal's Office (910-893-7580).
- Approved plans must be picked up from the Central Permitting Office and all fees paid before any required inspections can be conducted.





Plan Review, Inspection, and Permit Fees

Application Number	:	16-50039818	
\$200.00		Explosive Material (90 Days)	\$ -
\$100.00		Explosive Materials (72 Hours)	\$ -
\$100.00		Fireworks Public Display	\$ -
\$50.00	V	Final Inspection	\$ 50.00
\$35.00 + \$2.00 per device		Fire Alarm Testing	\$ -
\$35.00 + \$2.00 per nozzle		Fixed Fire Suppression	\$ -
\$75.00		Insecticide Fog/Fumigation	\$ -
\$100.00		Pipe Test/UST/AGST	\$ -
\$50.00	V	Plans up to 5000 sq ft	\$ 50.00
\$100.00		Plans 5001 sq ft to 10,000 sq ft	\$ -
\$150.00		Plans 10,001 sq ft to 25,000 sq ft	\$ -
\$250.00		Plans 25,001 sq ft and over	\$ -
\$35.00 + 2.00 per head		Sprinkler Certification Test	\$ -
\$50.00		Standpipe Testing	\$ -
\$50.00		Special Assembly	
430.00	permitte	(ie. amusement buildings, carnivals, fairs)	\$ -
\$75.00		Tents/Canopies/Air Supported Structure	\$ -
\$100.00		Tank Installation (charge for each tank)	\$ -
\$100.00		Tank Removal (charge for each tank)	\$ -
		Total Devices/Heads	\$ -
		Total Cost	\$ 100.00
Code Enforcement Official		Rodney Daniels	12/4/2017



Fire Marshal Division

December 4, 2017

Wyman Nichols 1010 Cedar Creek Road Fayetteville, NC 28312

Re: Casino Party Aces 252 Jarco Drive Fuguay Varina, NC

Application Number 16-50039818

To whom it may concern,

Thank you for submitting the plans for Casino Party Aces. The plans have been carefully reviewed by a qualified code enforcement official to examine for full compliance with the North Carolina Fire Prevention Code and all other fire protection regulatory documents. There are some items that were found during the plan review process that need to be addressed before a final inspection of the new facility can be given. These items are outlined and described below.

• 505.1 Physical Address

- The physical address of the building shall be posted in a conspicuous place so that it can be seen on approach from the road, access road, and/or parking lot.
- The numbers used to make up the physical address shall be at least 6 inches in height.

• 506.1 Knox Box

- A secure key box shall be installed on the new building that houses all keys to all the doors within the building in which the fire department would need access to in the event of an emergency.
- Knox Box ID stickers shall be placed on all exterior doors in which entry to the building may be gained.
- \circ The box shall be mounted not to exceed 48 60 inches in height.
- The basic model for the buildings should be at least a selection from the 3200 Series listed on the order form.
 - https://www.knoxbox.com/store/departmentSearch.cfm

Fire Extinguishers









- Fire Extinguishers shall be 2A:20BC and shall be placed with a travel distance to not exceed 75'
- Fire extinguishers are to be mounted no higher than 5' above the finished floor.

1006.1 Illumination Required

- o The exit discharge shall be illuminated at all times the building spaces served by the means of egress is occupied
- Illumination level in all areas of the means of egress shall not be less than 1 foot-candle at the walking surface and shall have emergency power supply.

Notes

- The measurements on the plans for the travel distance are showing 34.7 feet for ½ the diagonal distance, our measurement come up with 44.7 feet.
- o The left rear exit in the larger space where the future 3 suites will be located is noted on the plans as an exit with the max. travel distances but on the electrical plans sheet 2 it shows the exit beside it to the left corner of the building designated as the exit.
- The future space for the three suites, the middle suite does not have a second exit.
- A final fire inspection is required. Please contact this office direct to schedule fire inspection at 910-893-0743.

Thank you again for submitting the plans for Casino Party Aces. Please review the plans and adhere to any notes and alterations that were made in addition to the original drawings. These remarks are for the plans that were submitted and its original intent. These remarks do not apply if the original intent changes or what was submitted on the above date changes. If you have any questions, please do not hesitate to call this office

Again, thank you and we look forward to working with you during the construction period!

Sincerely,

Rodney Daniels

Chief Deputy Fire Marshal

Roger Sullivan

From: Roger Sullivan

Sent: Friday, December 01, 2017 10:51 AM

To: 'ganderson@weeksturner.com'
Cc: Rodney Daniels; Bill Lamm
Subject: Cosing Party Assa Plans

Subject: Casino Party Aces Plans

Hello Ms. Anderson,

Per our conversation by telephone here are the remarks from our plan review:

- The measurements on the plans for the travel distance are showing 34.7 feet for ½ the diagonal distance, our measurement come up with 44.7 feet.
- The left rear exit in the larger space where the future 3 suites will be located is noted on the plans as an exit with the max. travel distances but on the electrical plans sheet 2 it shows the exit beside it to the left corner of the building designated as the exit.
- The future space for the three suites, the middle suite does not have an second exit.

Please submit the changes to us noted on the plans. If you have any questions, feel free to contact us.

Thank you,

Roger Sullivan Deputy Fire Marshal PO Box 370 Lillington, N.C. 27546 Ph: 910-893-7580 Direct: 910-893-0745

Fax: 910-893-5025 rsullivan@harnett.org