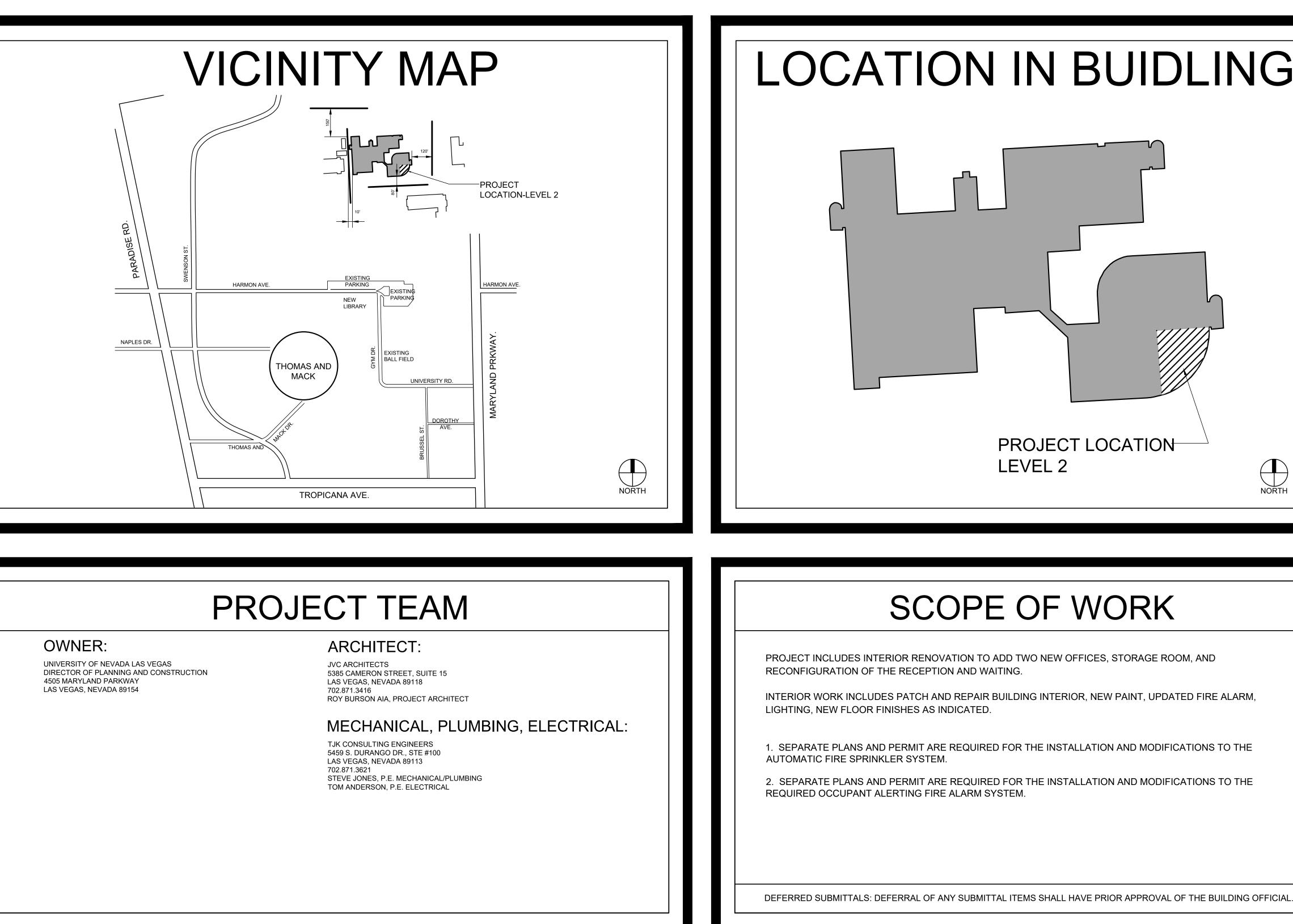
UNIVERSITY OF NEVADA, LAS VEGAS THOMAS BEAM ENGINEERING COLLEGE **RENOVATION**



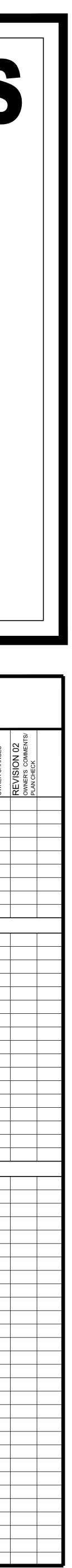


4505 MARYLAND PARKWAY LAS VEGAS, NEVADA 89154 **AUGUST 19, 2016**

CONSTRUCTION DOCUMENTS

JG	SHEET INDEX	
	GENERAL ' SUNNUS CVR COVER SHEET G0.01 GENERAL NOTES G1.01 EXITING PLAN	REVISION 01 -
	ARCHITECTURAL Image: Constraint of the second s	
	A5.02 SPECIFICATIONS MECHANICAL Image: Comparison of the second seco	
NORTH	ELECTRICALImage: Constraint of the second secon	
	E5.01 ONE LINE DIAGRAM AND SCHEDULES	
M,		
E		

UNIVERSITY OF NEVADA LAS VEGAS







= ABBREVIATIONS -----

		— <i>F</i>	ARREAD	ΑΠ	ONO		
&	AND AT	F FA	FEMALE FIRE ALARM	O/ OA	OVER OVER ALL	VAR VB	VARIES VAPOR BARRIER
@ ହ Ø	CENTERLINE DIAMETER	FA FAB FB	FABRICATE FLAT BAR	OBS OC	OVER ALL OBSCURE ON CENTER	VG VCG VCT	VINYL CORNER GUARD VINYL COMPOSITE TILE
ש י י	FOOT; FEET INCH	FCU FD	FAN COIL UNIT FLOOR DRAIN	OD OFCI	OUTSIDE DIAMETER OWNER FURNISHED	VERT VEST	VERTICAL VESTIBULE
% #	PERCENT POUND; NUMBER	FDN FE	FOUNDATION FIRE EXTINGUISHER	OFD	CONTRACTOR INSTALLED OVERFLOW DRAIN	VTR VFY	VERIFY VENT THROUGH ROOF
۳ ۳	PROPERTY LINE DEGREE	FEC FF	FIRE EXTINGUISHER CABINET FINISHED FLOOR	OFF OFOI	OFFICE OWNER FURNISHED	W	WASHER; WIDE; WIDTH; WEST
±	PLUS OR MINUS	FFE FH	FINISHED FLOOR ELEVATION FIRE HYDRANT	ОН	OWNER INSTALLED OVERHANG	W/ W/O	WITH WITHOUT
A/C AB	AIR CONDITIONING ANCHOR BOLT	FHC FIN	FIRE HOSE CABINET FINISH	OPNG OPP	OPENING OPPOSITE	WC WD	WALLCOVERING; WATER CLOSET WOOD
ABV ABBREV	ABOVE ABBREVIATION	FLR FLASH	FLOOR FLASHING	OPR OSB	OPERABLE ORIENTED STRAND BOARD	WDW WGL	WINDOW WIRE GLASS
AC	ASPHALTIC CONCRETE; ASPHALTIC PAVING	FLOUR	FLUORESCENT FACE OF	OVHD	OVERHEAD	WH WI	WATER HEATER WROUGHT IRON
ACT ACOUS	ACOUSTICAL CEILING TILE ACOUSTICAL	FOC FOF	FACE OF CONCRETE FACE OF FINISH	PASS PC	PASSAGE PIECE; POST CONTRACT	WO WP	WHERE OCCURS WATERPROOFING
AD ADD	AREA DRAIN ADDENDUM	FOM FOS	FACE OF MASONRY FACE OF STUDS	PD PERIM	PLANTER DRAIN PERIMETER	WP WR	WATERPROOF MEMBRANE WATER RESISTANT
ADJ ADJA	ADJUSTABLE ADJACENT	FPRF FRP	FIREPROOF FIBERGLASS REINFORCED	PL PLAM	PLATE; PROPERTY LINE PLASTIC LAMINATE	WSCT WT	WAINSCOT WEIGHT
AFF	ABOVE FINISH FLOOR AGGREGATE	FRZ	PANELS FREEZER	PLAS PLBG	PLASTER PLUMBING		
AL; ALUM ALT	ALUMINUM ALTERNATE	FS FT	FULL SIZE FEET OR FOOT	PLYWD PNL	PLYWOOD PANEL		
ANOD	ANODIZED ASSESSOR'S PARCEL NUMBER	FTG	FOOTING FURRING; FURRED	PR PRCST	PAIR PRECAST		
APPROX	APPROXIMATE ARCHITECTURAL	FUT	FUTURE	PREFAB	PREFABRICATE PREPARATION		
ASPH AV	ASPHALT AUDIO/VISUAL	GA GALV	GAUGE GALVANIZED	PROP PSF	PROPERTY POUNDS PER SQUARE FOOT		
BO	BOTTOM OF	GB GC	GRAB BAR GENERAL CONTRACTOR	PT PTD	POINT; PAINT PAPER TOWEL DISPENSER;		
BD BLDG	BOARD BUILDING	GL GLU-LAM	GLASS GLU-LAMINATED WOOD	PTN	PAINTED PARTITION		
BLK BLKG	BLOCK BLOCKING	GND GR	GROUND GRADE	PVC PVMT	POLYVINYL CHLORIDE PAVEMENT		
BM BOT	BEAM BOTTOM	GRN GS	GRANITE GYPSUM SHEATHING	RAD.	RADIUS		
BRG BS	BEARING BOTH SIDES	GSB GWB	GYPSUM SHEATHING BOARD GYPSUM WALLBOARD	RB R.D.	RUBBER BASE ROOF DRAIN		
BTWN BUR	BETWEEN BUILT-UP ROOFING	GYP	GYPSUM	REF. REFR.	REFERENCE REFRIGERATOR		
САВ	CABINET	H HB	HIGH HOSE BIB	REINF. REQ.	REINFORCED REQUIRED		
CB CEM	CATCH BASIN CEMENT	HC HD	HOLLOW CORE HEAD	RESIL. RGTR.	RESILIENT REGISTER		
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED	HDCP HDWD	HANDICAPPED HARDWOOD	RM R.O.	ROOM ROUGH OPENING		
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED	HDWE HM	HARDWARE HOLLOW METAL	RWD R.W.L.	REDWOOD RAIN WATER LEADER		
CG CJ	CORNER GUARD CONTROL JOINT	HORIZ HR	HORIZONTAL HOUR	S	SOUTH		
CL CLG	CENTERLINE CEILING	HS HT	HAND SINK HEIGHT	SC SCHED	SCALE; SOLID CORE SCHEDULE		
CLK CLO	CAULKING CLOSET	HVAC	HEATING, VENTILATING, AND AIR-CONDITIONING	SCP SCR	SCUPPER SCREEN		
CLR CMU	CLEAR CONCRETE MASONRY UNIT	HW	HOT WATER	SD SECT	STORM DRAIN SECTION		
CNTR COL	COUNTER COLUMN	ID IN	INSIDE DIAMETER (DIMENSION) INCH	SF SH	SQUARE FOOT SHELF		
CONC	CONCRETE CONNECTION	INCL	INCLUSIVE; INCLUDED; INCLUDING	SHR SHT	SHOWER SHEET		
CONSTR	CONSTRUCTION	INFO INSUL	INFORMATION INSULATION	SHTG SIM	SHEATHING SIMILAR		
CONTR	CONTRACTOR COORDINATE	INT INTEG	INTERIOR INTEGRATED	SJ SL	SCORE JOINT SLOPE		
CORR	CORRIDOR CARPET	INV	INVERT	SLDG SLNT	SLIDING SEALANT		
CR CT	CARPET RAIL; COLD-ROLLED CERAMIC TILE	JAN JB	JANITOR JUNCTION BOX	SM SPEC	SHEET METAL SPECIFICATION		
CTR CTRS	CENTER CENTERS RUBBER BASE	JC JST	JANITOR'S CLOSET JOIST	SPKR SPRK	SPEAKER SPRINKLER		
CTSK CW	COUNTERSINK COLD WATER	JT	JOINT	SQ SSK	SQUARE SERVICE SINK		
D	DEEP; DEPTH; DRYER	KD KIT	KNOCK DOWN KITCHEN		STAINLESS STEEL STONE		
DBL DD	DOUBLE DECK DRAIN	КО	KNOCK-OUT	STD STG	STANDARD STAGGERED		
DEPT DET	DEPARTMENT DETAIL	L LAB	LENGTH; LONG LABORATORY	STL STOR	STEEL STORAGE		
DF DIA	DRINKING FOUNTAIN DIAMETER	LAM LAV	LAMINATE; LAMINATED LAVATORY	STRL STRUC	STRUCTURAL STRUCTURE		
DIAG DIM	DIAGONAL DIMENSION	LB LDG	POUND LANDING	SURR SUSP	SURROUND SUSPENDED		
DISP DN	DISPENSER DOWN	LF LH	LINEAL FOOT LEFT HAND	SYM SYS	SYMMETRICAL SYSTEM		
DO DR	DOOR OPENING DOOR	LKR LOC	LOCKER LOCATION	T&G	TONGUE AND GROOVE		
DS DSP	DOWN SPOUT DRY STANDPIPE	LT LVR	LIGHT LOUVER	TACKBD TBB	TACKBOARD TILE BACKER BOARD		
DWG DWR	DRAWING DRAWER	Μ	MALE	TD TEL	TRENCH DRAIN TELEPHONE		
E	EAST	MAS MAX	MASONRY MAXIMUM	TEMP THK	TEMPORARY THICK		
EA EC	EACH ELASTOMERIC COATING	MBR MC	MASTER BEDROOM MEDICINE CABINET	THR	THRESHOLD		
EFS EIFS	EXTERIOR FINISH SYSTEM EXTERIOR INSULATION	MECH MEMB	MECHANICAL MEMBRANE	TLT TO	TOILET TOP OF		
EJ	FINISH SYSTEM EXPANSION JOINT	MET MFR	METAL MANUFACTURER	TOC TOP	TOP OF CURB TOP OF PARAPET		
EL ELAS	ELEVATION ELASTOMERIC	MH MIR	MANHOLE MIRROR	TOW TPT	TOP OF WALL TEXTURED PAINT		
ELEC ELEV	ELECTRICAL ELEVATOR	MISC MLDG	MISCELLANEOUS MOULDING; MOLDING	TRAN TRD OR T	TRANSITION TREAD		
EMER ENCL	EMERGENCY ENCLOSURE	MO MR MTD	MASONRY OPENING MOISTURE RESISTANT	TS TV	TUBE STEEL TELEVISION		
EP EQ EQUIR	ELECTRICAL PANELBOARD EQUAL	MTD MTG MTL	MOUNTED MOUNTING	TYP	TYPICAL		
EQUIP EW	EQUIPMENT EACH WAY	MTL MUL	MATERIAL MULLION	UBC UC	UNIFORM BUILDING CODE UNDERCUT		
EWC EX	ELECTRIC WATER COOLER EXISTING	N	NORTH	UL UNF	UNDERWRITERS LABORATOR UNFINISHED	RY	
EXP EXPO	EXPANSION EXPOSED	NIC NO	NOT IN CONTRACT NUMBER	UNO UON	UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED		
EXT	EXTERIOR	NOM NTS	NOMINAL NOT TO SCALE				
		= 01					
		- 3	<u>YMBOLS</u>		GEND-		
	NUMBER OF COM	BINED OC	CUPANTS USING EXIT		# SHT	BUILDING S WALL SECT	
			IED OCCUPANTS USING EX	ΊТ	#	BUILDING E	
					SHT	DOILDING L	
RM NAM	F				(#)		
					# SHT	DETAIL NUN	/IBEK
	_						
$\langle \# \rangle$		RECEP	TO WINDOW SCHEDULE		\mathbf{r}	DATUM REF	-ERENCE
\ <u>#</u> /		X-NEFEK					
\frown					Å ₩	REVISION N	IUMBER
(#)	DOOR NUMBER - F	REFER TO	DOOR SCHEDULE				
					(#)	05:5	
			ER TO EQUIPMENT SCHEDI		#	GRID	
				JLL			

ELEVATION REFERENCE

SHT

WALL TYPE

##

	GENE		
1.	GENERAL NOTES APPLY TO ALL DRAWINGS. SHEET NOTE	S PERTAIN TO SPECIFIC SHEETS.	
2. 3.	THE TERM "ARCHITECT/ENGINEER" REFERS TO THE RESPONSE THE TERM "CONTRACT DOCUMENTS" REFERS TO THE DRA		
4.	ARCHITECT/ENGINEER. THE DRAWINGS ARE PREPARED TO SHOW THE ARCHITEC		
	THIS PROJECT. IN ALL MATTERS RELATED TO THE USE OF THE ARCHITECT'S WRITTEN STATEMENT SHALL BE CONSIL MANUAL WITHOUT WRITTEN APPROVAL FROM THE ARCHIT	R INTERPRETATION OF THESE VARIOUS DRAWINGS A DERED FINAL. MAKE NO DEVIATIONS FROM THE DRA	AND PROJECT MANUAL
5.	ABSOLUTE ACCURACY OF DATA INDICATED IN THE DRAWING REPRESENT IMPERFECT DATA AND MAY CONTAIN ERRORS MATERIALS. SUCH DEFICIENCIES WILL BE CORRECTED WILL AND COMPARE THE DRAWINGS AND SPECIFICATIONS AND THE CONTRACTOR MUST REQUIRE EACH SUBCONTRACTOR	S, OMISSIONS, INCONSISTENCIES, CODE VIOLATIONS HEN IDENTIFIED. THE CONTRACTOR IS REQUIRED TO MMEDIATELY REPORT TO THE ARCHITECT ANY DEI	S AND IMPROPER USE O CAREFULLY STUDY FICIENCIES DISCOVERI
	DISCOVERED. THE CONTRACTOR IS REQUIRED TO RESOL THE WORK. IF THE CONTRACTOR PROCEEDS WITH THE W THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WOR OWNER.	VE ALL REPORTED DEFICIENCIES WITH THE ARCHIT	ECT PRIOR TO STARTII ROM THE ARCHITECT,
6.	DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS TAKE P		
7.	DIMENSIONS AS SHOWN ON ARCHITECTURAL FLOOR PLAN STUD, UNLESS NOTED OTHERWISE.		
8.	DIMENSIONS FOR DOOR OPENINGS SHOWN NOMINAL ARE ON PLANS.		
9.	NO PORTION OF THE WORK REQUIRING A SHOP DRAWING HAS BEEN APPROVED BY THE ARCHITECT. THE AUTHOR O INSURE THAT SUCH DOCUMENTS ACCURATELY CONFORM IN THE CONTRACT DOCUMENTS. ALL SUCH PORTIONS OF AND SAMPLES.	OF, OR PARTY RESPONSIBLE FOR EACH SHOP DRAW 1 WITH THE DESIGN CONCEPT AND COMPLY WITH TH	ING IS REQUIRED TO
10.	THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRE TECHNIQUES, SEQUENCES AND PROCEDURES AND COOR ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE TH COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENT	RDINATE ALL PORTIONS OF WORK UNDER THE CONTR HOROUGHLY TRAINED AND EXPERIENCED IN THEIR 1	RACT. HE IS TO USE FRADES AND WHO ARE
11.	THE GENERAL CONTRACTOR SHALL APPLY FOR AND OBTA BUILDING CODES AND REGULATORY CITY AND COUNTY AC		JIRED BY ALL APPLICA
12.	THE GENERAL CONTRACTOR IS TO BE FAMILIAR WITH THE SUBMIT A WRITTEN DEFICIENCY LIST OF ALL EXISTING SYS THOSE EXISTING CONDITIONS AS HE FINDS THEM. ALL TR INFORMATION ON ANY SHEET IS AS BINDING AND IS AS IF S	STEMS PRIOR TO COMMENCEMENT OF SCOPE OF W RADES ARE TO BE FAMILIAR WITH ALL DOCUMENTS A	ORK. HE IS TO ACCEP
13.	THE GENERAL CONTRACTOR SHALL MAINTAIN THE JOB SI SUBCONTRACTOR IMMEDIATELY UPON COMPLETION OF E		
14.	RESULT OF HIS OPERATION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR	,	AFETY PRECAUTIONS
15.	PROGRAMS IN CONNECTION WITH THE WORK AND PROVID THE GENERAL CONTRACTOR SHALL PROVIDE PUBLIC PRO	DTECTION AND MAINTENANCE TO ALL AREAS AFFECT	TED BY THE WORK AS
16.	NECESSARY AND AS REQUIRED BY LOCAL, STATE AND FEI THE CONTRACTOR SHALL PERFORM ALL WORK SHOWN AS	S NOTED ON THE DRAWINGS IN STRICT ACCORDANC	,
17.	ALL LOCAL, STATE AND FEDERAL MINIMUM STANDARDS OF AND APPLICABLE EDITIONS OF THE INTERNATIONAL BUILD NATIONAL ELECTRICAL CODE. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL DRAWING	DING CODE, INTERNATIONAL MECHANICAL CODE, UN	IFORM PLUMBING COI
18.	SHOWN ON ONE DOCUMENT MAY REPRESENT INFORMATION THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE	ON RELATIVE TO OTHER DOCUMENTS.	
10.	DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACC		
20.	COMPARISON OF THE LINES AND LEVELS SHOWN ON THE TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEE THE CONTRACTOR SHALL REQUEST A CLARIFICATION FRO	DRAWINGS WITH EXISTING SITE CONDITIONS, AND C EDING WITH THE WORK. OM THE ARCHITECT IF UNCERTAIN OF EXACT REQUIP	CALL ANY DISCREPAN
21.	DRAWINGS AND SPECIFICATIONS. HE SHALL BE RESPONS CONTRACTOR'S OWN EXPENSE AND SHALL BE RESPONSIE TO THE WORK OR PROPERTY OF OTHERS. THE CONTRACTOR SHALL CONFINE OPERATION AT THE SI	BLE FOR THE EXPENSE AND REPAIR OF ANY RESULT	ING DAMAGE OR DEF
22.	DOCUMENTS. HE SHALL NOT UNREASONABLY ENCUMBER THE CONTRACTOR SHALL PERFORM ALL CUTTING, FITTING ENDANGER ANY WORK BY CUTTING, EXCAVATING, OR OTH	G OR PATCHING OF HIS WORK THAT MAY BE REQUIR	RED AND SHALL NOT
23.	THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORI		
24.	ALL PATCHING, REPAIRING AND REPLACING OF MATERIAL REPAIRED WITH APPLICABLE MATERIALS SO THAT SURFACE SURFACES.	CES REPLACED WILL UPON COMPLETION, MATCH SU	IRROUNDING SIMILAR
25.	ALL CONSTRUCTION AND MATERIALS SHALL BE EQUAL TO INTERNATIONAL BUILDING CODE AND ALL REQUIREMENTS		
26.	ALL MATERIAL STORED ON THE SITE SHALL BE PROPERLY USED. FAILURE TO PROTECT MATERIALS MAY BE CAUSE F		AND DETERIORATION
27.	ALL WORK IS TO BE COMPLETE, OPERABLE AND ACCOMPL BEST PRACTICES OF THE VARIOUS TRADES AND TO THE S		CCORDANCE WITH TH
28.	ALL FLOOR AND WALL PENETRATIONS REQUIRED FOR PIP AND/OR SMOKE AT RATED WALLS.	'ES, CONDUIT, ETC., SHALL BE SEALED TO STOP THE	PASSAGE OF FIRE
29.	INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQU SPECIFICATIONS, UNLESS OTHERWISE SPECIFICALLY NOT		ACTURER'S RECOMM
30.	ACCESS PANELS SHALL BE PROVIDED FOR ELECTRICAL, F SERVICING OF ALL SAID EQUIPMENT.	² LUMBING, MECHANICAL, AND ALL OTHERS WHICH M	
31.			IAY BE REQUIRED FO

CE OF

ACH

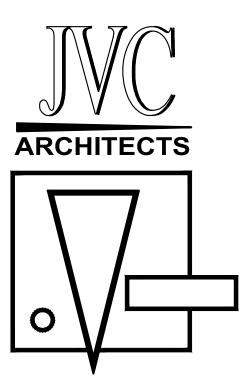
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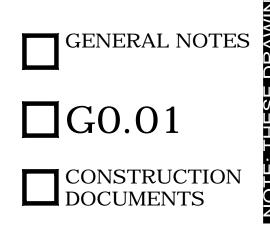
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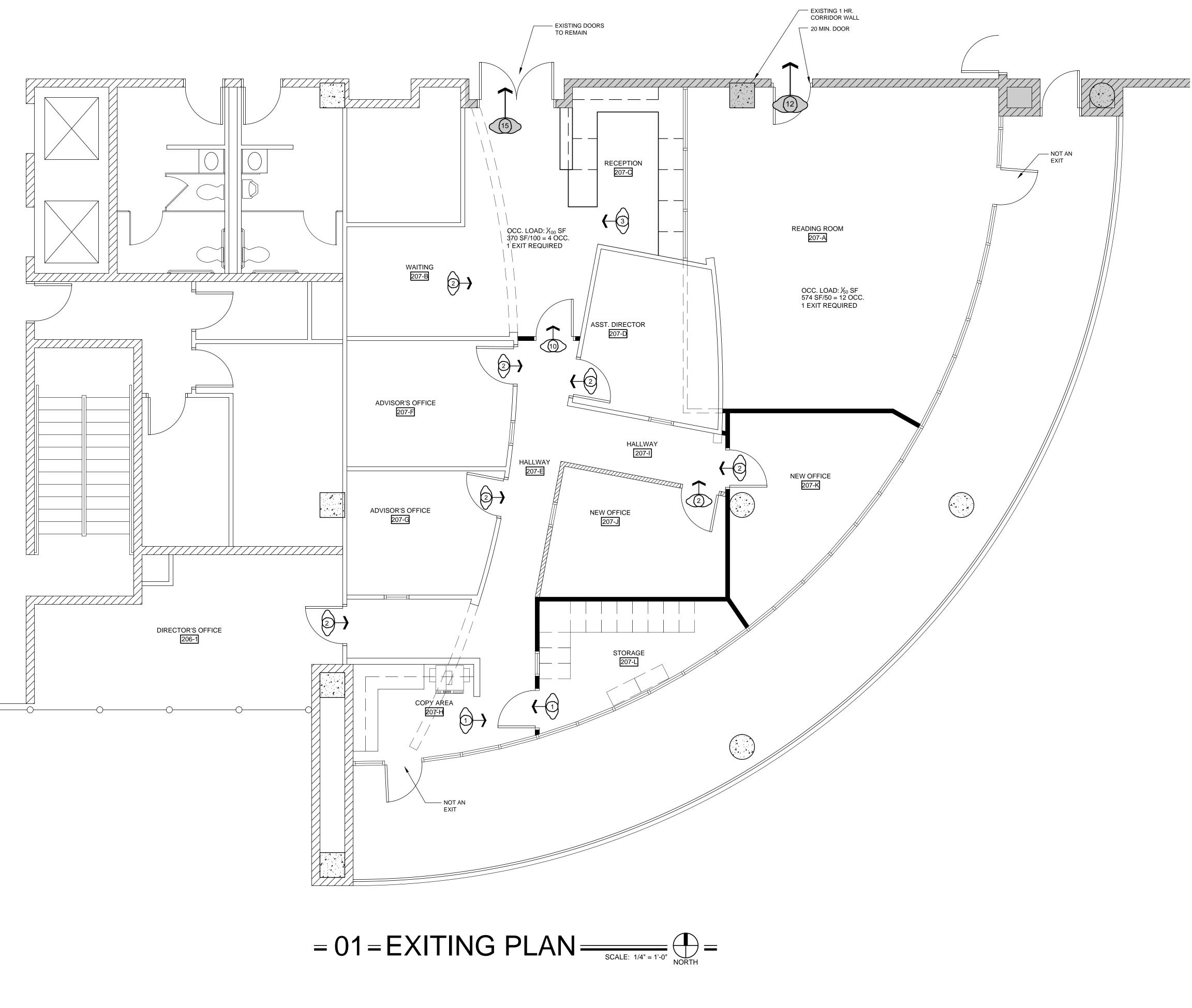
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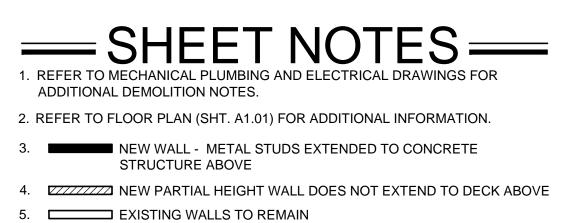
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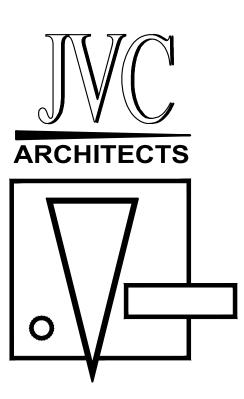








		SPRINKLER S	SYSTEM:	FICES, REA	No *PAR	TIAL DRY STAI	NDPIPE SYSTEM
C.	[] [] []	eason: [] Requ] Increase allow] Sub. for 1-hr.] Other	/. area, Sec. 50 const., Sec.50	05.3 8	[] Atria, S	se # of stories, \$ Sec. 402.1 Bldg NAC 477.9	
).).		<u>1 SYSTEM</u> : [> <u>DNSTRUCTION</u> stible) I-FR		Circle one)			
	Combustible	e) ÍII-1 hi <u>ON PROPERTY</u>	r III-N IV-H⊺ ′: Section 503	Г V-1 hr V-	N		
	B OCCUP Bear	ring		9 5-A			
	Two	hour N/C less hour N/C elsev -bearing					
	Four Two One	hour N/C less hour N/C less hour N/C less t N/C elswhere	han 20 feet				
	NOT	ection of Openir PERMITTED L TECTED LESS	ESS THAN 5	FEET	5-A		
	<u>HEIGHT AND</u> Occupancy Group	<u>D NUMBER OF</u> Allowed Height		Allov	ved ber of	Actual Number of	
	(T.3-A) B, A-3	(feet)	(feet) 66'	Stor		Stories 5 Stories	
		E AREA: Sectio remodel or add			 l existing port	ions of the	
	building in this				0.		
		LOADS / NUM					" <u> </u>
	Room Numbe Occupancy D	Description	Area in Sq.Ft.	O.L / Factor	= 0.L*	Min.2 Exits When O.L =	·
	207-B B 207-C B	READING RM WAITING RECEPTION	<u>102</u> 268	/ <u>50</u> / <u>100</u> / <u>100</u>	$= \frac{12}{2}$ = 3	50 30 N/A	2/2 2/2 N/A
	<u>207-E B</u>	OFFICE HALLWAY OFFICE	<u>131</u> <u>N/A- 188</u> <u>135</u>	/ <u>100</u> / <u>N/A</u> / <u>100</u>	$= \frac{2}{N/A}$	N/A N/A	N/A N/A N/A
	207-G B 207-H B	OFFICE COPY AREA	<u>117</u> 73	/ <u>100</u> / <u>100</u>	= 2 = 1	N/A N/A	N/A N/A
	<u>207-J B</u> 207-K B	HALLWAY OFFICE OFFICE	N/A- 60 132 163	/ <u>N/A</u> / <u>100</u> / <u>300</u>	$= \frac{N/A}{2}$ $= \frac{2}{2}$	N/A N/A	N/A N/A
	<u>207-L B</u>	STORAGE	<u>116</u> N/A N/A	/ <u>100</u> / <u>N/A</u> / <u>N/A</u>	$= \frac{1}{N/A}$	N/A N/A N/A	N/A N/A N/A
	<u> </u>		<u>N/A</u>	Total	= <u>N/A</u> = <u>29</u>		
	* = .5 or grea Less than .5 :			Req. = R	cupant Load equired		
	OCCUPANC	Y SEPARATIO	N: Table 3-B	Prov. = P sect.302 (wh		ssembly no)	
	N/A	RATION: sect.			•	• •	
	N/A	EQUIREMENT	`	•	-		
	N/A	S : Table 15-A	<u> </u>	ST GROUP:	Unaplel 3		
	Circle One ro	of class: [A] [Chapter 6		
	N/A	TO EXIT: Section					
	Required		U				Provided N/A
	[x] 250 fee [] 300 fee	et With Automa et (last 150 feet	Within Corrido	 or)			Y N/A
	[] 350 fee [] <u>0'-0"</u> [] <u>0'-0"</u>	et (=+ Auto. Sp	feet "E" OC feet "H" OC	CUPANCÝ: S CUPANCY: S	SECTION 100)7.3.3)7.4.2	N/A N/A N/A
			feet atrium:	CUPANCY: SI section 402.5 ection 404.4.3	5.1		N/A N/A N/A
	[] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u>			l Hazards: se	ct. 1007.7.2.3	5	N/A N/A
	[] <u>0'-0"</u>			stands, etc. Tt	008.7.4		
	[] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> WIDTH OF M MINIMUM RE	MEANS OF EG	— RESS: Chapte S:	<u>r 10</u>			
	[] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> WIDTH OF M MINIMUM RE Doors: 3ft. W Door minimum Exit access: \$	EQUIREMENTS /ide by 6ft. 8 inc m clear width o Section1004.2.3	RESS: Chapte S: ches high: sect f 32 inches, ind 5	<u>r 10</u>	3	ction 1003.3.1.3	3
	[] 0'-0" [] 0'-0" [] 0'-0" [] 0'-0" [] 0'-0" WIDTH OF M MINIMUM RE Doors: 3ft. W Door minimul Exit access: \$ Additional red	EQUIREMENTS /ide by 6ft. 8 inc m clear width o	RESS: Chapte S: ches high: sect f 32 inches, ind 5 y apply.	<u>r 10</u> ion 1003.3.1. cluding panic / sec. 1003.2.	3 hardware: se 3, per sectior	ction 1003.3.1.3 n 1007.3.5	
	i 0'-0" WIDTH OF M MINIMUM RE Doors: 3ft. W Door minimule Exit access: S Additional red NOTE: E-1 cd	EQUIREMENTS /ide by 6ft. 8 inc m clear width o Section1004.2. quirements may orr. width shall	RESS: Chapte S: ches high: sect f 32 inches, ind 5 y apply. be as req'd. by	r 10 ion 1003.3.1. cluding panic / sec. 1003.2. 0.L. x.2 c	3 hardware: se 3, per sectior Exit [*] or Width	ction 1003.3.1.3 n 1007.3.5 Exit * Corr Width Widt	- Corr th Width
	[] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> WIDTH OF M MINIMUM RE Doors: 3ft. W Door minimul Exit access: S Additional red NOTE: E-1 cd Exit Corr	EQUIREMENTS /ide by 6ft. 8 inc m clear width o Section1004.2.4 quirements may orr. width shall Description 207-A (REAL	RESS: Chapte S: ches high: sect f 32 inches, ind 5 y apply. be as req'd. by 0000 RM)	r 10 ion 1003.3.1. cluding panic / sec. 1003.2. 0.L. x.2 c D.L. x.3 20 -	3 hardware: se 3, per sectior Exit [*] or Width Req'd <u>36"</u>	ction 1003.3.1.3 n 1007.3.5 Exit * Corr Width Widt Prov. Req 36" N/A	- Corr th Width 'd Prov. <u>N/A</u>
	[] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> [] <u>0'-0"</u> WIDTH OF M MINIMUM RE Doors: 3ft. W Door minimul Exit access: S Additional red NOTE: E-1 cd Exit Corr	EQUIREMENTS /ide by 6ft. 8 inc m clear width o Section1004.2.4 quirements may orr. width shall Description 207-A (REAL 207-B (WAIT 207-C (RECE 207-D (ASST	RESS: Chapte S: ches high: sect f 32 inches, ind 5 y apply. be as req'd. by DING RM) ING) PTION) . DIRECT.)	r 10 ion 1003.3.1. cluding panic / sec. 1003.2. 0.L. x.2 c 0.L. x.3 20 12 1 - 1 - - - - -	3 hardware: se 3, per sectior Exit * or Width Req'd <u>36"</u> <u>36"</u> <u>36"</u>	ction 1003.3.1.3 n 1007.3.5 Exit * Corr Width Widt Prov. Req <u>36" N/A 36" N/A</u> 36" N/A	Corr th Width 'd Prov. <u>N/A</u> N/A N/A N/A
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SOR'S OFF) SOR'S OFF) Y AREA) CTOR'S OFF) Y AREA) CTOR'S OFF) Y AREA CTOR'S AREA	r 10 ion 1003.3.1. cluding panic y sec. 1003.2. 0.L. x.2 c 0.L. x.2 c 0.L. x.3 20 - 12 - 1 - 1 - 0 - - 1 - 0 - - 2 - 1 - 0 - - 2 - - 1 - 0 - - 2 - - N/A - Prov = Provide Req'd. = Requ 3 - E OF CONST Rating i 4 3 - 1 - 1 - - - - - - - - - - - - -	3 hardware: se 3, per section Exit * or Width Req'd <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>36"</u> <u>3</u>	ction 1003.3.1.3 1007.3.5 Exit * Corr Width Widt Prov. 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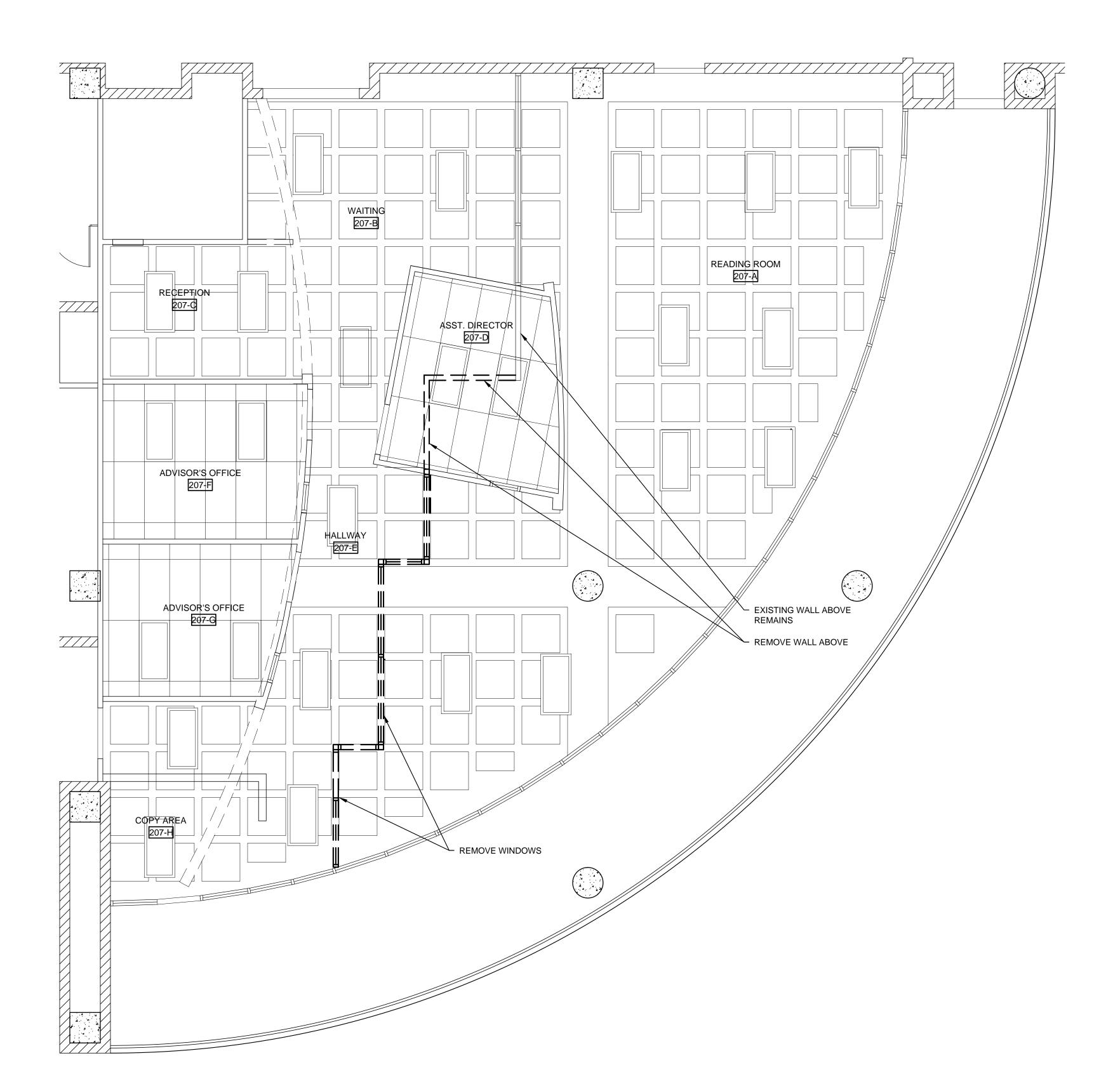
JVC ARCHITECTS 5385 CAMERON ST., STE 15 LAS VEGAS, NV 89118 PH 702.871.3416 WWW.JVCARCHITECTS.NET

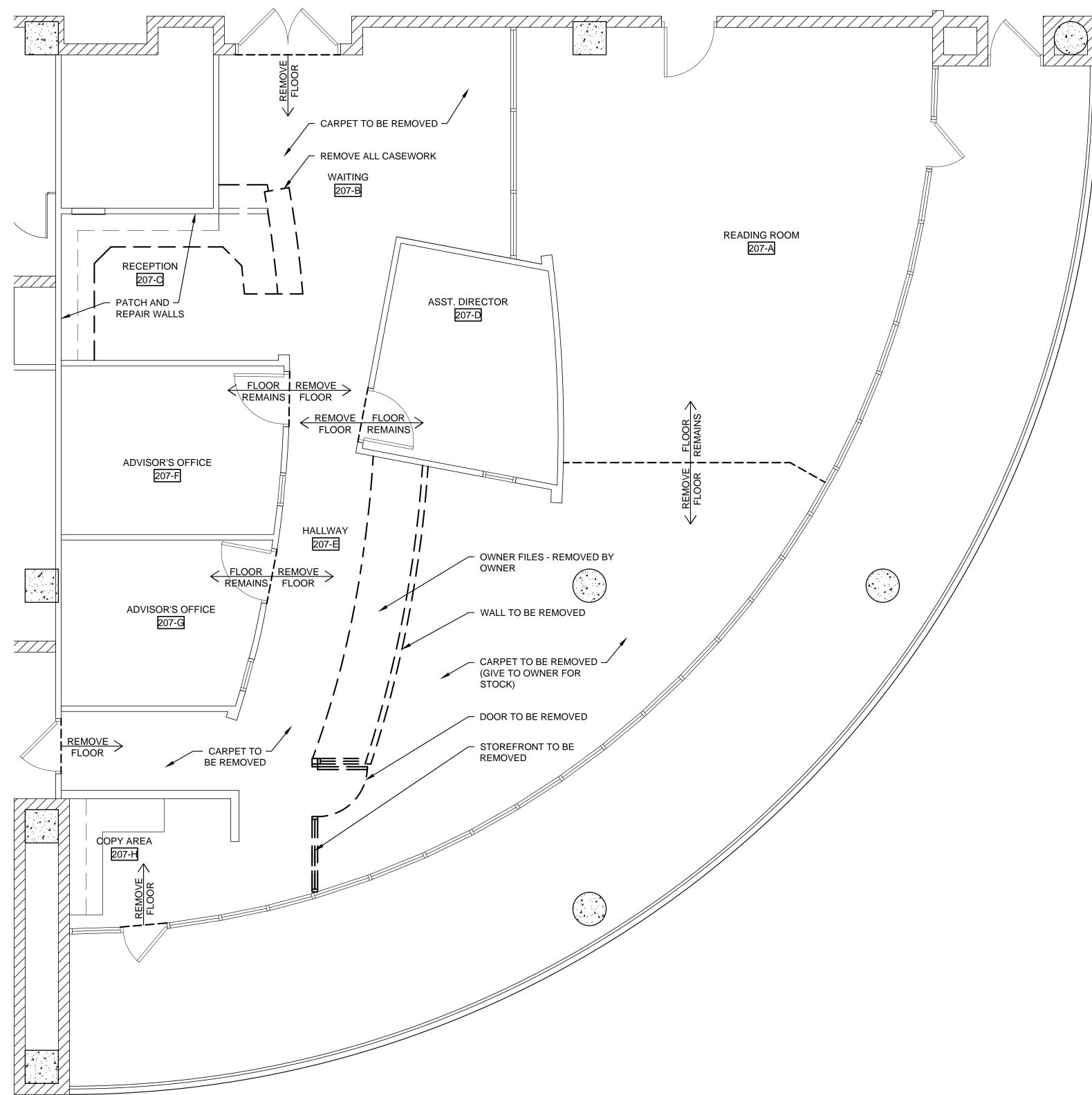
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$= 01 = DEMOLITION FLOOR PLAN = SCALE: 1/4" = 1'-0" \bigoplus_{NORTH} = 0$

- 4. ALL MATERIALS WHICH ARE NOT RELOCATED OR REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM THE SITE (WITH THE OWNERS APPROVAL) AT NO ADDITIONAL COST TO THE OWNER. 5. REMOVE ALL FLOORING WHERE INDICATED. PREPARE SLAB FOR NEW FLOORING.
- 6. REFER TO M&E DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.

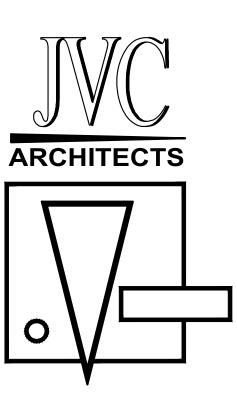
THE WORK SHOWN.

OF ANY WORK.

____DEMOLITION NOTES _____

1. THE FULL EXTENT OF DEMOLITION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR. FAILURE OF THE CONTRACTOR TO FIELD VERIFY SHALL NOT RELIEVE THE CONTRACTOR OF ANY REQUIREMENTS TO COMPLETE

2. ALL DEMOLITION SHALL BE TO THE EXTENT NECESSARY TO PROPERLY COMPLETE NEW CONSTRUCTION. 3. THE CONTRACTOR SHALL COORDINATE ALL DEMOLITION AND REMOVAL WITH THE OWNER PRIOR TO THE START



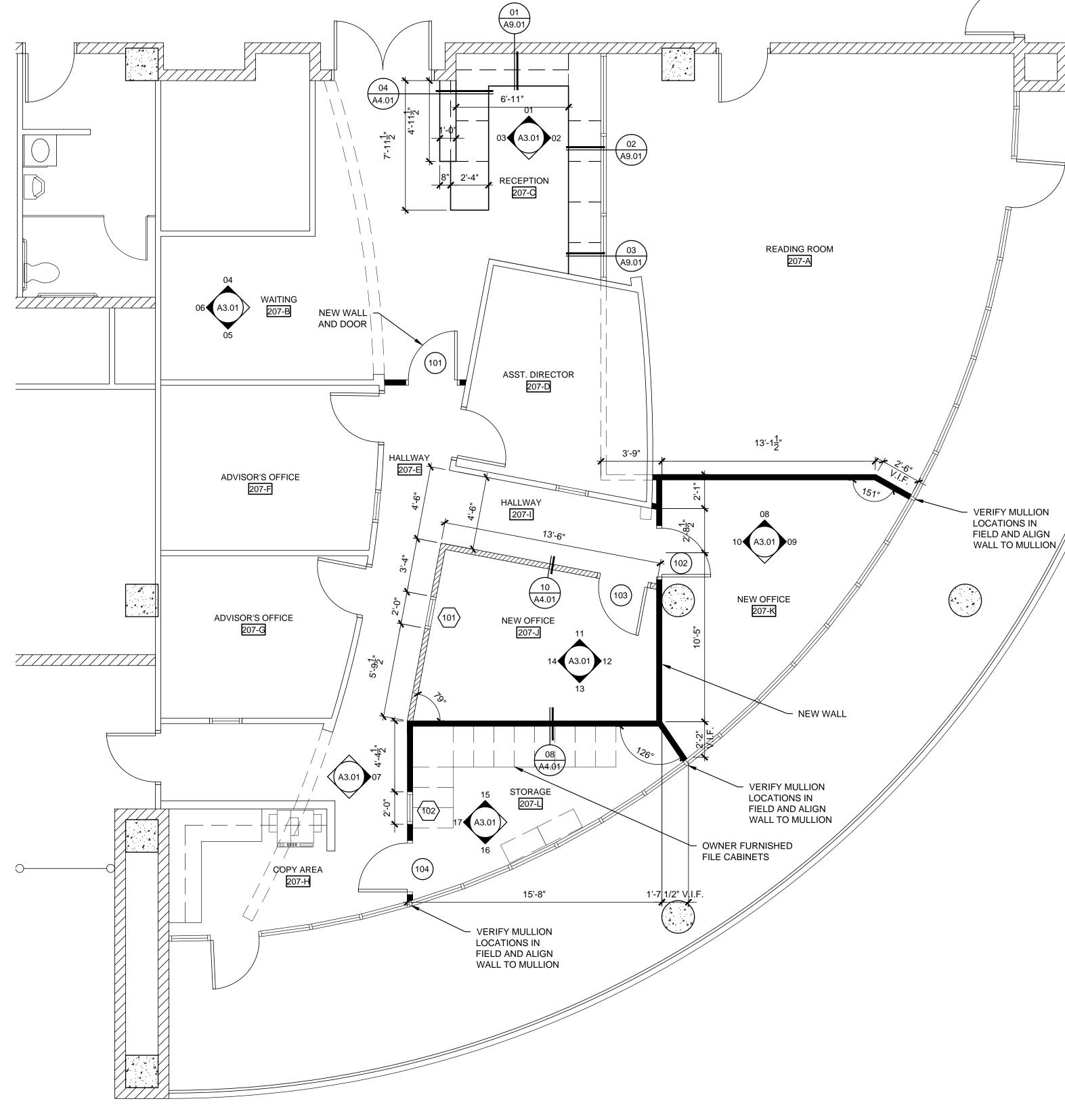




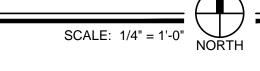


____CEILING NOTES _____

- 1. COORDINATE LOCATION OF ALL SPRINKLER HEADS, DOWN LIGHTS, EXIT LIGHTS, ETC. IN THE CENTER OF CEILING TILE MODULE - UNLESS OTHERWISE NOTED.
- NOTE: ALL SPRINKLER HEADS TO BE FULLY RECESSED TYPE. 2. INSTALL ACOUSTICAL CEILING TILE AND SUSPENDED CEILINGS IN ACCORDANCE WITH
- CODE REQUIREMENTS. SEE DETAIL 09, A4.01.
- 3. ALL INTERIOR PAINT FINISH TO BE OVER LIGHT ORANGE PEEL FINISH 5/8" TYPE 'X' GYP. BD. UNLESS OTHERWISE NOTED.
- 4. PATCH/ REPAIR GYPSUM BOARD WHERE DAMAGED. 3 5/3" 20 GA. STEEL STUDS @ 16" OC W/ ONE LAYER OF 5/3" TYPE 'X' GYP BD ON EACH SIDE APPLIED AT RIGHT ANGLES TO STUDS W/ 1" TYPE 'S' DRYWALL SCREWS @ 8" OC TO VERTICAL EDGES AND @ 12" OC TO TOP AND BOTTOM RUNNERS AND ALL INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" OC. TERMINATE WALL AS INDICATED ON PLANS, PER DETAIL 08/ A4.01.
- BD ON EACH SIDE APPLIED AT RIGHT ANGLES TO STUDS W/ 1" TYPE 'S' DRYWALL SCREWS @ 8" OC TO VERTICAL EDGES AND @ 12" OC TO TOP AND BOTTOM RUNNERS AND ALL INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" OC. PROVIDE SOUND ATTENUATION BATTS UP ALONG WALL AND OVER
- CEILING. TERMINATE WALL 6" ABOVE CEILING, PER DETAIL 10/ A4.01. 7. EXISTING WALLS TO REMAIN
- 8. INDICATES NEW OPENINGS



= 01 = FLOOR PLAN ------



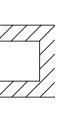
2. ALL NEW GYPSUM BOARD TO BE $\frac{5}{8}$ " TYPE "X" GYPSUM BOARD.

3. PROVIDE TEMPERED GLASS PER LOCAL CODE REQUIREMENTS.

ADDITIONAL INFORMATION.

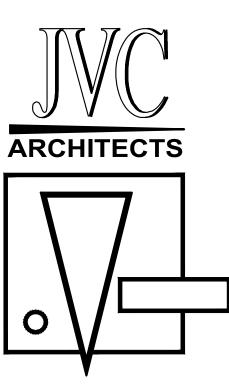


4. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL NOTES. 5. 35%" 20 GA. STEEL STUDS @ 16" OC W/ ONE LAYER OF 5%" TYPE 'X' GYP BD ON EACH SIDE APPLIED AT RIGHT ANGLES TO STUDS W/ 1" TYPE 'S' DRYWALL SCREWS @ 8" OC TO VERTICAL EDGES AND @ 12" OC TO TOP AND BOTTOM RUNNERS AND ALL INTERMEDIATE STUDS. STAGGER ALL VERTICAL AND HORIZONTAL JOINTS @ 24" OC. TERMINATE WALL AS INDICATED ON PLANS, PER DETAIL 08/ A4.01.













CEILING. TERMINATE WALL 6" ABOVE CEILING, PER DETAIL 10/ A4.01. 7. EXISTING WALLS TO REMAIN

^{8.} NEW ROOM SIGNAGE TO BE OFCI

	DOOR SCHEDULE										
MARK		DOOR				FRA	ME		FIRE	HARDWARE	REMARKS
	TYPE	SIZE (WXH)	тніск	MAT'L	FIN	MAT'L	FIN	DETAIL	RATING	SET	NEWANNO
(101)	А	3'-0" x 7'-0"	1¾"	WD.	PT	STL.	PT	06/ A4.01	N/A	SET-01	PAINT TO MATCH EXISTING
(102)	А	3'-0" x 7'-0"	1¾"	WD.	PT	STL.	PT	06/ A4.01	N/A	SET-01	PAINT TO MATCH EXISTING
(103) (104)	А	3'-0" x 7'-0"	1¾"	WD.	PT	STL.	PT	06/ A4.01	N/A	SET-01	PAINT TO MATCH EXISTING
(104)	А	3'-0" x 7'-0"	1¾"	WD.	PT	STL.	PT	06/ A4.01	N/A	SET-01	PAINT TO MATCH EXISTING
	DOOR NOTES										

1. ALL DOORS AND FRAMES ARE PAINT GRADE U.N.O.

2. ALL DOORHEAD @ 107'-0" TO BE VERIFIED IN FIELD AND MATCH EXISTING.

3. ALL HARDWARE TYPE AND FINISHES TO MATCH EXISTING. Hardware Set 01

EA EA EA	Office Lock Mortise Cyl. Wall Stop	TA2714 4.5 X 4.5 L9050L 06A Less Cylinder 985 W.I.C. 408 (Convex) 608	US26D US26D US26D US32D GRY	Mc Kinney Schlage Falcon Lock Rockwood Rockwood
	EA EA EA	EA HingesEA Office LockEA Mortise Cyl.EA Wall StopEA Silencers	EAOffice LockL9050L 06A Less CylinderEAMortise Cyl.985 W.I.C.EAWall Stop408 (Convex)	EAOffice LockL9050L 06A Less CylinderUS26DEAMortise Cyl.985 W.I.C.US26DEAWall Stop408 (Convex)US32D

Door Index

HW Set Door Number(s)

101, 102, 103, 104

WINDOW SCHEDULE WINDOW FRAME REMARKS DETAIL NO TYPE-HD HT MTL FINISH SIZE (WXH) OPR ANOD. ALUM. ANOD. ALUM. PAINT TO MATCH EXISTING 2'-0" x 2'-0" FIXED 107'-0" ALUM. 05/ A4.01 2'-0" x 2'-0" 107'-0" FIXED ALUM. PAINT TO MATCH EXISTING 05/ A4.01

= WINDOW NOTES = 1. COORDINATE ALL ROUGH OPENINGS SIZES WITH MANUFACTURER - FIELD VERIFY ALL DIMENSIONS.

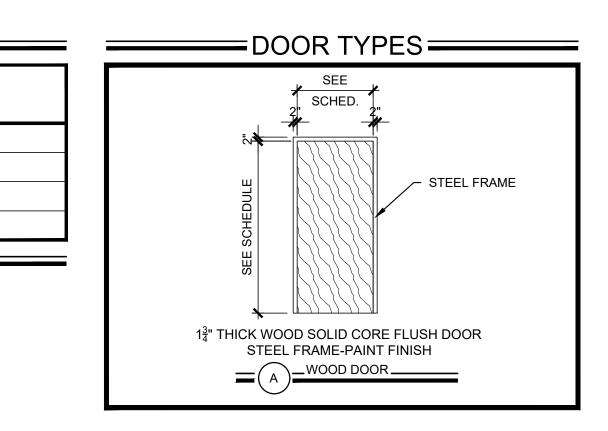
2. PROVIDE TEMPERED GLASS WHERE REQUIRED BY CODE AND/OR AS INDICATED HERIEN.

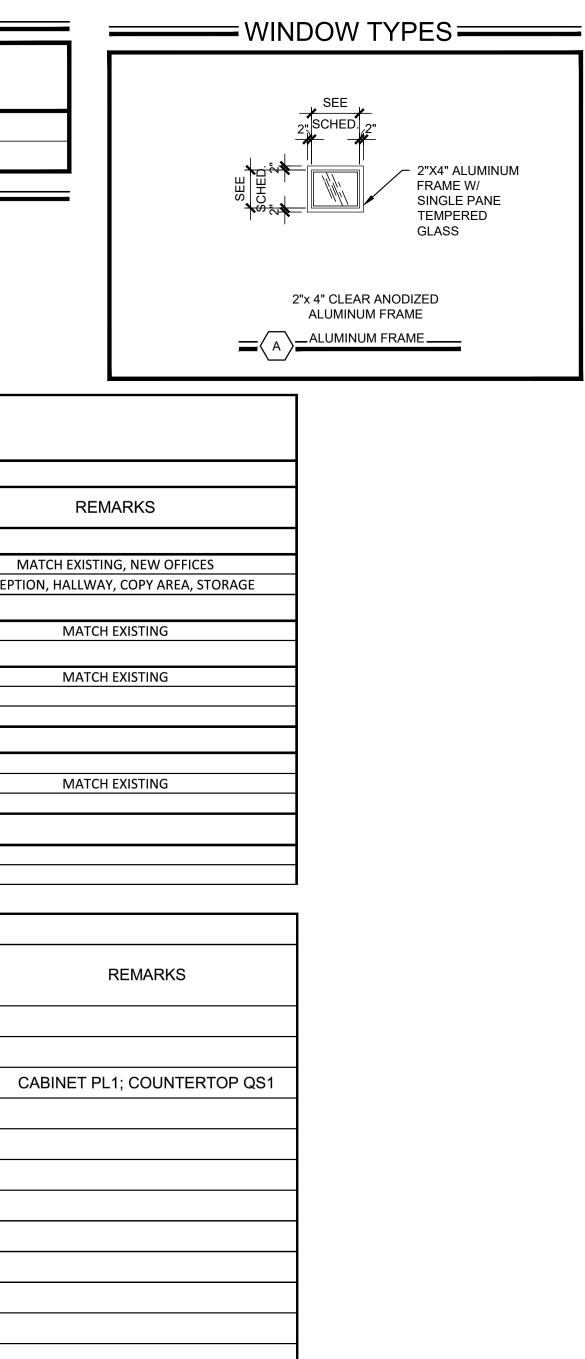
3. SUBMIT SHOP DRAWINGS, PRODUCT DATA AND CERTIFICATIONS AS REQUIRED PRIOR TO FABRICATION.

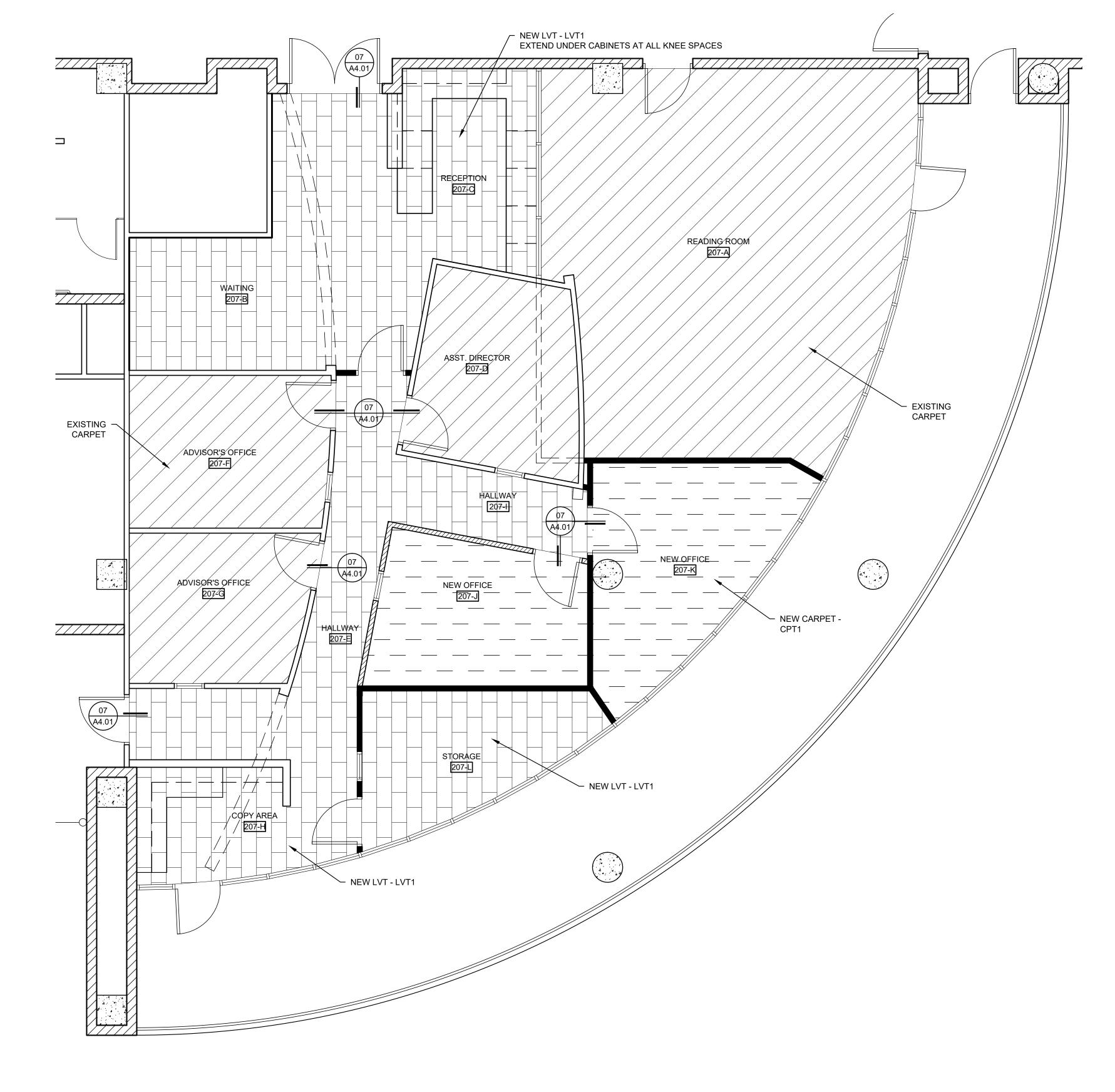
4. ALL WINDOWS WILL MEET AAMA / NWWDA 101/I.S.2 OR 101/I.S.2/NAFS. 5. (T) INDICATES UNITS TO RECEIVE TEMPERED GLASS FOR UNITS OTHER THAN THOSE REQUIRED BY 2006 IBC

			MATERIAL F	INISHES	
			INTERIOR FI	NISHES	
ABBREV	SIZE	DESCRIPTION	MANUFACTURER (OR EQUIVALENT)	MODEL/STYLE/COLOR	
			FLOO	R	
CPT1		CARPET TILE			
LVT1	12X24	LUXURY VINYL TILE	THE AZROCK COLLECTION	V-280 RAW SILK	RECEP
			BASE	· · ·	
RB1	6"	RUBBER BASE	JOHNSONITE	48 GREY WG	
			WALL	· · ·	
PT1		PAINT	DUNN EDWARDS	DEW395 HEIRLOOM SHADE	
PT2		PAINT	DUNN EDWARDS	DET618 INDUSTRIAL AGE	
			CEILIN	G	
GYP					
PT1		PAINT	DUNN EDWARDS	DEW395 HEIRLOOM SHADE	
			SPECIALT	IES	
PL1		PLASTIC LAMINATE	FORMICA	5488-NT SMOKY BROWN PEAR	
QS1		QUARTZ SOLID SURFACE	FORMICA	733 MIRAGE	

	ROOM SCHEDULE								
ROOM NAME	ROOM	FLOOR	FLOOR FLOOR WALL					- CEILING	ROOM
	NO	FINISH	BASE	NORTH	EAST	SOUTH	WEST	CLILING	SIGN
READING ROOM	207-A	(E)	(E)	(E)	(E)	(E)	(E)	PT1	
WAITING	207-В	LVT1	RB1	PT1	PT1	PT1	PT1	PT1	
RECEPTION	207-C	LVT1	RB1	PT1	PT1	PT1	PT1	PT1	
ASSISTANT DIRECTOR	207-D	(E)	(E)	(E)	(E)	(E)	(E)	PT1	
HALLWAY	207-E	LVT1	RB1	PT1	PT1	PT1	PT2	PT1	
ADVISOR'S OFFICE	207-F	(E)	(E)	(E)	(E)	(E)	(E)	PT1	
ADVISOR'S OFFICE	207-G	(E)	(E)	(E)	(E)	(E)	(E)	PT1	
COPY AREA	207-H	LVT1	RB1	PT1	PT1	PT1	PT1	PT1	
HALLWAY	207-I	LVT1	RB1	PT1	PT1	PT1	PT1	PT1	
NEW OFFICE	207-J	CPT1	RB1	PT1	PT1	PT1	PT1	PT1	•
NEW OFFICE	207-K	CPT1	RB1	PT1	PT1	PT1	PT1	PT1	•
STORAGE	207-L	LVT1	RB1	PT1	PT1	PT1	PT1	PT1	•







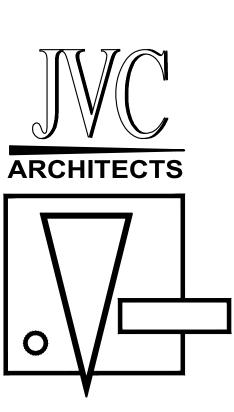
= 01 = FLOOR FINISH PLAN =

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

FLOOR FINISH PLAN LEGEND HATCH ABBREV DESCRIPTION EXISTING CARPET TO REMAIN (E) CARPET - REFER TO SCHEDULE FOR TYPE CPT1 _ ___

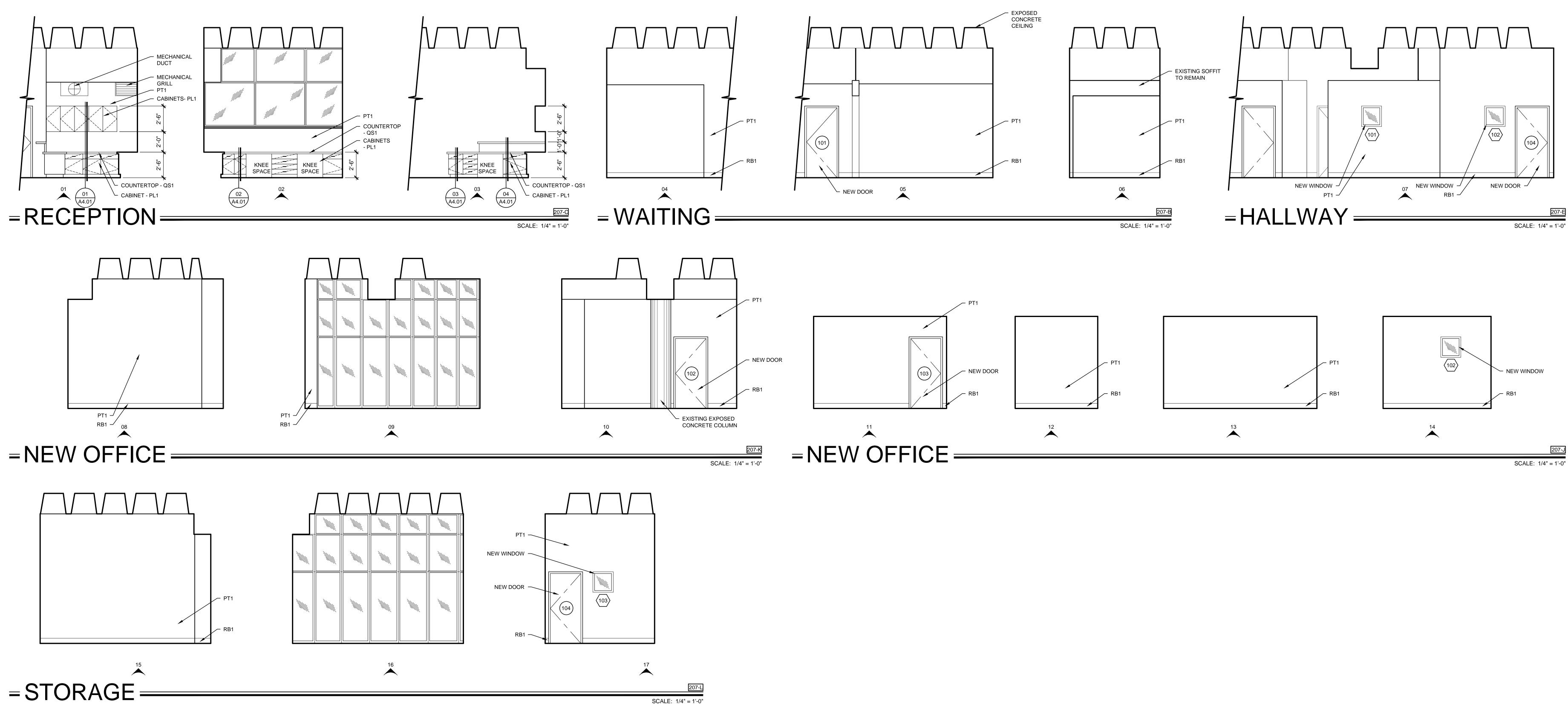
LVT1

1. EXTEND FLOOR FINISH UNDER EQUIPMENT, KNEE SPACE AND TOE KICK.







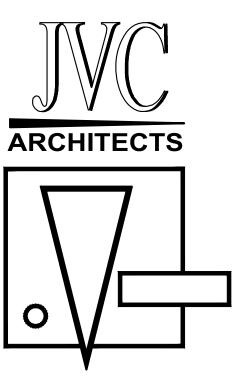


SCALE: 1/4" = 1'-0"

= SHEET NOTES =

- 1. REFER TO FINISH SCHEDULE FOR FINISHES OF ALL DOOR AND WINDOW FRAMES. 2. ALL ACCENT PAINT TO TERMINATE AT INTERIOR CORNERS UNO.
- 3. BASE CABINETS ARE 24" DEEP EXCEPT AS NOTED OTHERWISE.
- 4. UPPER CABINETS ARE 12" CLEAR INSIDE DEPTH EXCEPT AS NOTED OTHERWISE. 5. FIELD VERIFY ALL OVERALL ROOM/SPACE DIMENSIONS.
- 6. CASEWORK SUBCONTRACTOR TO FIELD DRILL UP TO 2½" DIAMETER HOLES PER KNEE SPACE FOR ELECTRICAL CORD AND ACCESS TO OUTLETS/RECEPTICLES BELOW COUNTER TOPS IN LOCATIONS DIRECTED BY OWNER.
- 7. ALL PENETRATIONS/HOLES IN FINISHED COUNTER TOPS TO BE TIGHTLY FITTED WITH PLASTIC GROMMET INSERTS. (ELECT. ACCESS, TRASH HOLES, ETC.)
- 8. CONTRACTOR IS RESPONSIBLE FOR BRACING, BLOCKING, FABRICATION DETAILS, ETC. ASSOCIATED WITH PROPER ASSEMBLY AND INSTALLATION OF CASEWORK/CABINETRY.
- 9. PROVIDE "FULL" BULLNOSE CORNERS AT ALL COUNTER TOPS.
- 10. PROVIDE LOCKS ON ALL DRAWERS AND DOORS IN CASEWORK.
- 11. CASEWORK SHALL MEET THE MOST CURRENT REQUIREMENTS OF THE WOODWORK INSTITUTE AND/OR THE ARCHITECTURAL WOODWORK INSTITUTE (AWI) CUSTOM GRADE.

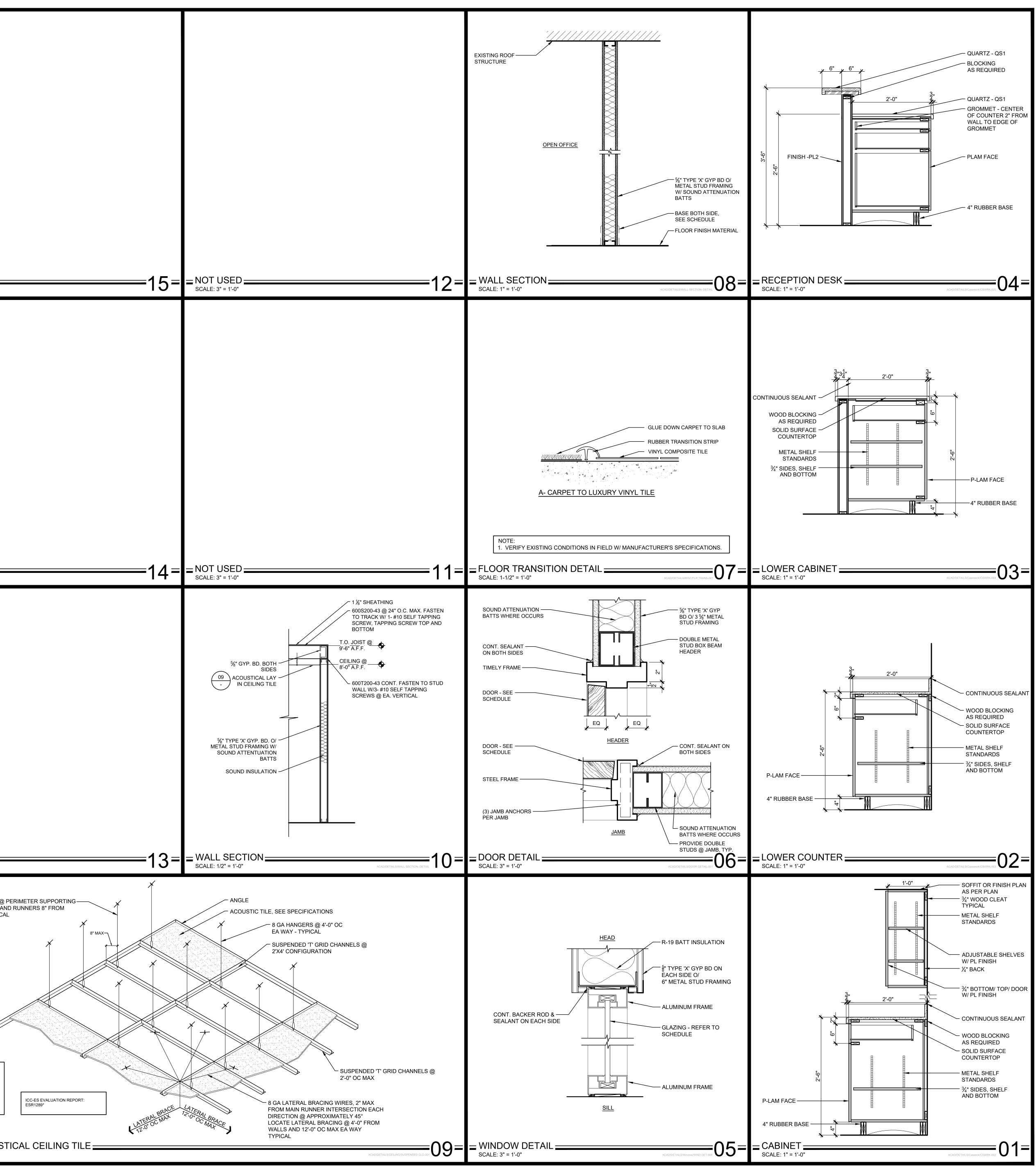
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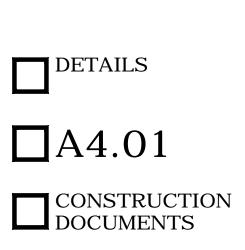




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SCALE: 3" = 1'-0"	17=	NOT USED SCALE: 3" = 1'-0"
		8 GA HANGERS @ MAIN RUNNERS AI WALL MAX-TYPICA
		NOTE:
		1. VERIFY INSTALLATION REQUIREMENTS W/ MANUFACTURERS WRITTEN INSTRUCTIONS.
		2. LAY IN CEILING TO COMPLY WITH ASTM C 635 AND ASTM C 636, ASCE 7 (13.5.6) AS WELL AS CISCA REQUIREMENTS.
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SCALE: 3" = 1'-0"	10	NOT TO SCALE







ARCHITECTS Ο JVC ARCHITECTS

5385 CAMERON ST., STE 15 LAS VEGAS, NV 89118

SECTION 01001 BASIC REQUIREMENTS	SECTION 0 SELECTIVE
PART 1 GENERAL	PART 1 G
1.01 GOVERNING LAW	1.1 SUMM
A. All work shall be performed in accordance applicable requirements of the following:	A. Sectior
ADA, latest edition	1. Desig
ANSI, latest edition	2. Remo
2012 International Building Code	3. Ident
2012 International Mechanical Code	4. Capp
2012 International Plumbing Code	5. Reloc
2011 National Electrical Code	6. Legal
Uniform Fire Code (and Local amendments)	1.2 QUALIT
1.02 COORDINATION	A. Regula
A. Coordinate scheduling, submittals, the various areas of work to assure efficient & Orderly sequence of constructions with provisions for items installed later.	1. Confo dust o
B. Verify that utility requirements of operating equipment are compatible with building utilities.	2. Obtai
Coordinate work having interdependent responsibilities for installing, connecting, placing	3. ANSI
in service, such as equipment.	4. Requ
1.03 CUTTING AND PATCHING	B. Structu
A. Employ experienced installer to perform cutting and patching new Work, & restore work	1.3 PROJEC
with new Products.	A. Occupa
B. Submit written request in advance of cutting or altering structural or building enclosure	disrupt
elements.	Owner
C. Fit Work tight to adjacent elements. Maintain integrity of wall, ceiling or floor construction	B. Condit
completely seal voids.	structu
D. Finish surfaces to match adjacent finishes.	C. Protect
1.04 CONFERENCES (as required by Owner)	from w
1.05 SUBMITTAL PROCEDURES	1. Take
A. Transmit submittal with a different sequential number, coordinate submittals of related items.	buildi
1.06 SHOP DRAWINGS	2. Erect
A. Provide a minimum of (6) copies.	3. Provi
1.07 PRODUCT DATA	or ele
A. Provide a minimum of (6) copies.	4. Prote
B. Mark each copy to identify products, models, and other data. Supplement manufacturers	5. Const
standard data to provide information unique to this project.	dirt o
1.08 SAMPLES	6. Provi
A. Submit samples to illustrate functional and aesthetic characteristics of the Product.	leaka
B. Submit samples of finishes from the full range of mfrs' standard color, textures, and patterns	7. Remo
unless otherwise indicated or specified herein. 1.09 MANUFACTURER'S INSTRUCTIONS A. When specified in individual specification Sections, submit mfr's printed instructions for storage	D. Damag E. Traffic:
A. When specified in individual specification Sections, submit mfr's printed instructions for storage, assembly, installation, start-up, and adjusting.	streets 1. Do no
B. Indicate materials or Product conforms to or exceeds specified requirements.	writte
Submit supporting reference data, affidavits, and certifications as appropriate.	obstr
1.10 MANUFACTURER'S CERTIFICATES	F. Explosi
A. Submit manufacturers' certificate to Owner for review, in quantities specified for Product data.	G. Flame
 B. Indicate material or Product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate. 	At cond
1.11 QUALITY ASSURANCE	suppre H. Utility
 A. Monitor quality control over suppliers, mfr's, products, services, site conditions, & workmanship,	1. Do no
to produce work specified quality.	by the
 B. Comply fully with mfrs' instructions, including each step in sequence. C. Should mfrs' instructions conflict w/Contract Documents, request clarification from Architect 	to exi I. Fire Pro
before proceeding.	J. Environ
D. Comply w/specified standards as a minimum quality for work when more stringent tolerances,	method
codes, or spec'd requirements indicate higher standards or more precise workmanship. E. Perform work by persons qualified & experienced to produce workmanship of specified quality.	environ
F. Secure products in place w/ positive anchorage devices designed and sized to withstand stresses,	PART 2 PI
physical distortion or disfigurement and match surrounding finishes. 1.12 REFERENCES	Not used.
 A. Conform to reference standard by date of issue current as of date of Contract Documents. B. Should specified reference standard conflict w/ Construction Documents, request clarification from 	PART 3 EX 3.1 PREPA
Architect before proceeding.s	A. Provide
1.13 INSPECTION & TESTING LABORATORY SERVICES	B. Cover a
A. Owner will appoint and employ services of an independent firm to perform inspection and testing.	C. Tempo
B. The independent firm will perform inspections, tests, and other services as required.	preven
C. Cooperate with independent firm, furnish samples and access to work as requested.	1. Const
 D. Retesting required because of non-conformance to specified requirements will be charged to the	occup
Contractor. 1.14 PROTECTION OF INSTALLED WORK	sound
1.14 PROTECTION OF INSTALLED WORK	2. Provi
A. Protect installed Work & provide protection where specifications in individual spec. sections.	D. Locate
B. Prohibit traffic or storage upon waterproofed or roofed surfaces.	1. Provi
1.15 SECURITY (by contractor)	3.2 DEMOI
A. Provide security and facilities to protect Work.	A. Condu
1.16 PROGRESS CLEANING	B. Cease
A. Maintain areas free of waste materials, and debris. B. Maintain site in clean & orderly condition at all times.	resume
1.17 PRODUCTS	C. Provide jurisdic
A. Products: Means new material, components, equipment, fixtures, and systems forming the work,	3.3 DEMOI
but does not include machinery & equipment used for preparation, fabrication, conveying and erection	A. Perfori
of the Work.	B. Comple
B. Use interchangeable components of the same mfr. for similar components.	of appr
A. Provide seven (7) days notification to Owner & independent testing firm prior to start-up.	roots, c C. Cut exi
 B. Ensure that each piece of equipment of system is ready for operation. C. Execute start-up under supervision of responsible persons in accord with manufacturers' instructions. 	ready t
D. Submit a written report that equipment or system has been properly installed & is functioning correctly.	D. If unar or desi
1.19 DEMONSTRATION AND INSTRUCTIONS	report
A. Demonstrate operation & maintenance of Products to Owner's personnel two weeks prior to date	demoli
of final inspection.	3.4 DISPOS
B. For equipment or systems requiring seasonal operation perform demonstration for other season	A. Remov
within (9) months	legally
1.20 TESTING, ADJUSTING, AND BALANCING	1. If haz
*BY CONTRACTOR - COORDINATE WITH SHEET M0.00 PART 3B. 1.21 CONTRACT CLOSEOUT PROCEDURES	regula
A. Submit written that Contract Documents have been reviewed, Work has been inspected & Work is	or en 2. Burni 2. Wike
complete in accord with Contract Documents & ready for Owner Inspected.	3. When
B. Provide submittals to Owner/Contractor that are required by governing or other authorities.	3.5 CLEAN
C. Submit final Application for Payment Identifying total adjusted Contract Sum, previous payments	A. Upon c
and sum remaining due.	protect
1.22 FINAL CLEANING	1. Repa
A. Execute final cleaning prior to final inspection.	and s
 B. Clean interior & exterior glass & surfaces exposed to view, remove temporary labels, stains, foreign substances, polish transparent & glossy surface, vacuum carpeted and soft surfaces. 	surfa
C. Replace filter of operating equipment.	B. Do not
1.23 ADJUSTING	drives,
A. Adjust operating products and equipment to ensure smooth and unhindered operation.	on a da C. Remov
1.24 PROJECT RECORD DOCUMENTS A. Maintain on site, one set of the following record documents, record actual revisions to the Work:	
 Contract Drawings. Specifications. 	
3. Addenda. 4. Change Orders & other Modifications to Contract s	
5. Reviewed shop drawings, product data, and samples. B. Store Record Documents separate from documents used for construction.	SECTION 07 JOINT SEAL
C. Record information concurrent w/construction progress.	PART 1 GEN
D. Specifications: Legibly mark & record at each Product section description of actual products	1.01 SECTIO
E. Record Documents & Shop Drawings: Legibly mark each item to actual construction.	A. Preparir
F. Delete Architect/Engineer title block and seal from all documents. G. Submit all documents to Owner/Contractor w/claim for Final Application for Payment.	B. Sealant
1.25 OPERATION AND MAINTENANCE DATA	PART 2 PRC
A. Submit two (2) sets prior to final inspection.	2.01 SEALAI
1.26 WARRANTIES	A. See sch
 A. Provide duplicate notarized copies. B. Execute and assemble documents from suppliers and manufacturers. C. Submit prior to final Application for Downsort. 	2.02 ACCES A. Primer:
C. Submit prior to final Application for Payment.	B. Joint Cle
1.27 SPARE PARTS AND MAINTENANCE MATERIALS	forming
A. Provide Products, spare parts, maintenance and extra materials in quantities specified in individual	C. Joint Ba
specification sections.	D. Bond Br
B. Deliver to project site as directed by Owner: Owner obtain receipt prior to final payment.	PART 3 EXE

ECTION 02220 **LECTIVE DEMOLITION**

ART 1 GENERAL

- .1 SUMMARY
- A. Section Includes: Removal of materials and equipment, including, but not limited to: 1. Designated portions of building structure required to accommodate new construction.
- 2. Removal of temporary partitions, fencing, and protections.
- 3. Identification of utilities.
- 4. Capping and removal of designated utilities. 5. Relocation of existing utilities.
- 6. Legal and environmentally safe off site disposal or recycling of construction debris.
- .2 QUALITY ASSURANCE A. Regulatory Requirements:
- 1. Conform to applicable federal, state, and local codes for demolition work, safety of structure, dust control, and debris removal. 2. Obtain required permits from authorities.
- 3. ANSI A10.6 Safety Requirements for Demolition.
- 4. Requirements of affected utility companies.
- B. Structural Integrity: Maintain structural integrity to existing building. .3 PROJECT CONDITIONS
- A. Occupancy: Owner will occupy adjacent portions of the building. Conduct work to minimize disruption of Owner's normal operations. Provide minimum of 72 hours prior written notice to Owner when activities affect Owner's normal operations.
- 3. Condition of Structures: Owner assumes no responsibility for actual condition of items or structures to be demolished.
- . Protections: Provide temporary barriers to protect Owner's personnel and public from injury from work.
- 1. Take required protective measures to provide free and safe passage to occupied portions of building
- 2. Erect temporary passageways as required by authorities having jurisdiction. 3. Provide shoring, bracing, or support to prevent movement, settlement, or collapse of structure or element to be demolished and adjacent facilities or work to remain.
- 4. Protect existing work which becomes exposed during demolition operations.
- 5. Construct temporary insulated dustproof partitions to separate areas from noisy or extensive dirt or dust operations are performed. Equip partitions with dustproof doors and security locks. 6. Provide temporary weather protection when exposing exterior conditions to prevent water leakage or damage to structure or interior areas of existing building.
- 7. Remove protections at completion of work.
- D. Damages: Promptly repair damages caused to adjacent facilities by demolition work. E. Traffic: Conduct operations and debris removal to ensure minimum interference with roads,
- streets, walks, and other adjacent occupied or used facilities. 1. Do not close, block, or otherwise obstruct streets, walks, or occupied or used facilities without written permission from authorities having jurisdiction. Provide alternate routes around
- obstructed traffic ways.
- . Explosives: Explosives are not permitted at the site. G. Flame Cutting: Do not use cutting torches for removal until flammable materials are removed. At concealed spaces, verify conditions prior to flame cutting operations. Maintain portable fire
- suppression devices during flame cutting operations. H. Utility Services: Maintain existing utilities and protect against damage during demolition operations. 1. Do not interrupt utilities serving occupied or used facilities, except when authorized in writing
- by the Owner and authorities having jurisdiction. Provide temporary services during interruptions to existing utilities, acceptable to Owner and governing authorities. . Fire Protection: Maintain fire protection services during selective demolition operations. . Environmental Controls: Use water sprinkling, temporary enclosures, or other acceptable
- methods to limit dust and dirt migration. Comply with governing regulations pertaining to environmental protection.
- ART 2 PRODUCTS

ART 3 EXECUTION

.1 PREPARATION

- A. Provide shoring, bracing, or support to prevent movement, settlement, or collapse. 3. Cover and protect equipment and fixtures from soilage or damage as necessary. . Temporary Partitions and Protections: Erect and maintain dust proof partitions and closures to
- prevent spread of dust or fumes to occupied portions of the building. 1. Construct dust proof partitions of minimum 4 inch studs, 5/8 inch drywall (joints taped) on occupied side, 1/2 inch fire retardant plywood on demolition side. Fill partition cavity with
- sound deadening insulation. 2. Provide weatherproof closures for exterior openings resulting from demolition work. D. Locate, identify, stub off, and disconnect or relocate utility services indicated to remain.
- 1. Provide bypass connections to maintain services to occupied areas. .2 DEMOLITION REQUIREMENTS
- A. Conduct demolition to minimize interference with occupied building areas.
- B. Cease operations immediately if structure appears to be in danger and notify Architect. Do not
- resume operations until directed. C. Provide services for effective air and water pollution controls required by local authorities having jurisdiction.
- .3 DEMOLITION
- A. Perform demolition activities in a systematic manner. B. Completely fill below grade areas and voids resulting from demolition work. Provide fill consisting of approved earth, gravel, or sand, free of trash and debris, stones over 6 (150mm) inches in diameter, roots, or other organic matter.
- C. Cut existing exterior walls for new doors, windows, or other openings indicated. Leave openings ready to receive new work or patching. D. If unanticipated mechanical, electrical, or structural elements conflicting with intended function
- or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to Owner in written, accurate detail. Pending receipt of directive from Owner, rearrange
- demolition schedule as necessary to continue overall job progress without undue delay. .4 DISPOSAL OF DEMOLISHED MATERIALS A. Remove from site, debris, rubbish, and other materials resulting from operations. Transport and
- legally dispose off site. 1. If hazardous materials are encountered during demolition operations, comply with applicable regulations, laws, and ordinances concerning removal, handling, and protection against exposure
- or environmental pollution. 2. Burning of removed materials is not permitted on project site.
- 3. Where possible, make use of recycling services and centers for demolished materials. .5 CLEANUP AND REPAIR
- A. Upon completion of work, remove tools, equipment, and demolished materials from site. Remove protections and leave interior areas broom clean. 1. Repair demolition performed in excess of required at no expense to Owner. Return construction
- and surfaces to condition existing prior to start operations. Repair adjacent construction or surfaces soiled or damaged by work. B. Do not permit rubbish and debris to accumulate. Clean and sweep building areas, roads, streets,
- drives, parking lots, sidewalks, adjoining properties, and areas affected by demolition operation on a daily basis. . Remove temporary protections and barriers.

CTION 07900 INT SEALERS

RT 1 GENERAL 1 SECTION INCLUDES

Preparing sealant substrate surfaces. Sealant and backing.

RT 2 PRODUCTS

01 SEALANTS See schedule below

- D2 ACCESSORIES
- Primer: Non-staining type, recommended by sealant manufacturer to suit application. Joint Cleaner: Non-corrosive & non-staining type, recommend by sealant mfr: compatible with joint forming materials.
- Joint Backing: As recommended by sealant mfr. D. Bond Breaker: Pressure sensitive tape recommend by sealant mfr to suit application.

ART 3 EXECUTION 3.01 EXAMINATION

- A. Verify surfaces are ready to receive work.
- B. Beginning of installation means installer accepts existing surfaces. 3.02 PREPARATION
- A. Clean and prime joints in accordance with mfrs instructions.
- 3.03 INSTALLATION A. Install sealant in accord w/mfr's instructions.
- 3.04 CLEANING AND REPAIRING
- A. Clean adjacent soiled surfaces. B. Replace defaces or disfigured finishes caused by work of this Section.
- 3.05 PROTECTION OF FINISHED WORK
- A. Protect joints until cured. 3.06 SCHEDULE OF SEALANTS (products equal to the following):
- A. SEALANT TYPE I: Polyurethane, single compenent chemical cure, non-sagging, movement class 25.
- TYPICAL uses: Small exterior/interior vert. & horiz. Perimeter joints between metals. or between metals. or between metal masonry, reglets, flashing, and counter-flashing. (Minimum joint width ½", minimum depth ¼")

B. SEALANT TYPE 2:

- General purpose glazing silicone, one-component neutral curing, non-sag, movement class 50. TYPICAL uses: Butt glazed joints, channel glazing. (Limitations: Glazing applications)
- C. SEALANT TYPE 3:
- Fungus resistant, one component silicone, non-sag, movement class 25 TYPICAL uses: Interior joints at plumbing fixtures, etc, interior vertical joints in tile, plastic laminates in wet areas. (Limitations: glazing applications)
- D. SEALANT TYPE 4:
- One component acrylic latex, non-sag, paintable. USES: Interior joints, dry locations subject to not more than 5% movement. Such as non-moving joints in gyp/bd. Or plaster can be painted. (Limitations: Interior dry non-moving joints) E. SEALANT TYPE 5:
- One component acrylic latex, solvent release curing, non-hardening, non-migrating polyisobutylene polymer base.

SECTION 087100 DOOR HARDWARE

PART 1 - GENERAL

- **1.1 RELATED DOCUMENTS** A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY A. This Section includes commercial door hardware for the following:
- 1. Swinging doors. B. Door hardware includes, but is not necessarily limited to, the following: 1. Mechanical door hardware.
- 2. Cylinders specified for doors in other sections.
- C. Related Sections: 1. Division 08 Section "Door Hardware Schedule".
- 2. Division 08 Section "Hollow Metal Doors and Frames".
- 3. Division 08 Section "Aluminum-Framed Entrances and Storefronts". D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction. 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- 2. ICC/IBC International Building Code.
- 3. NFPA 80 Fire Doors and Windows. 4. NFPA 101 - Life Safety Code.
- 5. NFPA 105 Installation of Smoke Door Assemblies.
- 6. State Building Codes, Local Amendments. E. Standards: All hardware specified herein shall comply with the following industry standards:
- 1. ANSI/BHMA Certified Product Standards A156 Series
- 2. UL10C Positive Pressure Fire Tests of Door Assemblies **1.3 SUBMITTALS**
- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes. B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and
- finish of door hardware. 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
- 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format
- and order as the Door Hardware Sets will be rejected and subject to resubmission. 3. Content: Include the following information: a. Type, style, function, size, label, hand, and finish of each door hardware item.
- b. Manufacturer of each item. c. Fastenings and other pertinent information.
- d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and
- frame schedule e. Explanation of abbreviations, symbols, and codes contained in schedule. f. Mounting locations for door hardware.
- g. Door and frame sizes and materials. 4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other worki affected by door hardware, and other information essential to the coordinated review of the Door
- Hardware Schedule. C. Keying Schedule: Prepared under the supervision of the Owner, separate schedule detailing final keying instructions for locksets and cylinders in writing. Include keying system explanation, door numbers, key setuction symbols, hardware set numbers and special instructions. Owner to approve submitted keying

schedule prior to the ordering of permanent cylinders.

a proven record of successful in-service performance.

source, qualified supplier unless otherwise indicated.

1) Interior Hinged Doors: 5 lbf applied perpendicular to door.

3. NFPA 101: Comply with the following for means of egress doors:

of a key, tool, or special knowledge for operation.

b. Thresholds: Not more than 1/2 inch high.

a. Test Pressure: Positive pressure labeling.

Plans for existing and future key system expansion.

5. Address and requirements for delivery of keys.

by other trades.

prior authorization.

1.6 COORDINATIONndi

indicated requirements.

in-field modifications.

1.5 DELIVERY, STORAGE, AND HANDLING

3. Requirements for key control storage and software.

4. Installation of permanent keys, cylinder cores and software.

include basic installation instructions with each item or package.

the Owner shall be established at the "Keying Conference".

or third party source will not be accepted.

unless otherwise indicated.

marked for intended use.

record of successful in-service performance.

checkout, and acceptance.

1.4 QUALITY ASSURANCE

D. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the hardware and their nearest service representatives. The final copies delivered

after completion of the installation test to include "as built" modifications made during installation, E. Warranties and Maintenance: Special warranties and maintenance agreements specified in this Section.

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have

B. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum 3 years documented experience installing both standard and electrified builders hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor in good standing by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

1. Scheduling Responsibility: Preparation of door hardware and keying schedules. D. Source Limitations: Obtain each type and variety of Door Hardware specified in this Section from a single

1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware,

E. Regulatory Requirements: Comply with NFPA 70, NFPA 80, NFPA 101 and ANSI A117.1 requirements and guidelines as directed in the model building code including, but not limited to, the following: 1. NFPA 70 "National Electrical Code", including electrical components, devices, and accessories listed and labeled as defined in Article 100 by a testing agency acceptable to authorities having jurisdiction, and

2. Where indicated to comply with accessibility requirements, comply with Americans with Disabilities Act (ADA), "Accessibility Guidelines for Buildings and Facilities (ADAAG)," ANSI A117.1 as follows: a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.

b. Door Closers: Comply with the following maximum opening-force requirements indicated:

2) Fire Doors: Minimum opening force allowable by authorities having jurisdiction. c. Thresholds: Not more than 1/2 inch high. Bevel raised thresholds with a slope of not more than 1:2. a. Latches, Locks, and Exit Devices: Not more than 15 lbf to release the latch. Locks shall not require the use

4. Fire-Rated Door Assemblies: Provide door hardware for assemblies complying with NFPA 80 that are listed

and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to NFPA 252 (neutral pressure at 40" above sill) or UL-10C.

F. Each unit to bear third party permanent label demonstrating compliance with the referenced standards. G. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document: 1. Function of building, purpose of each area and degree of security required.

H. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to review proper methods and the procedures for receiving, handling, and installing door hardware. 1. Prior to installation of door hardware, arrange for manufacturers' representatives to hold a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products. Product training to be attended by installers of door hardware (including electromechanical hardware) for aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required. 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed

3. Review sequence of operation narratives for each unique access controlled opening. 4. Review and finalize construction schedule and verify availability of materials.

5. Review the required inspecting, testing, commissioning, and demonstration procedures I. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule.

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without

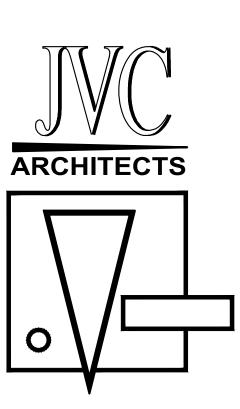
B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related

accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to

A. Templates: Obtain and distribute to the puctionarties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems. C. Door and Frame Preparation: Related Division 08 Sections (Steel, Aluminum and Wood) doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional

- 1.7 WARRANTY
- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements
- of the Contract Documents. B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following: 1. Structural failures including excessive deflection, cracking, or breakage.
- 2. Faulty operation of the hardware. 3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- 4. Electrical component defects and failures within the systems operation. C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.
- D. Special Warranty Periods: 1. Twenty five years for manual surface door closers.
- **1.8 MAINTENANCE SERVICE**
- A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware. B. Continuing Service: Beginning at Substantial Completion, and running concurrent with the specified warranty period, provide continuous (6) months full maintenance including repair and replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper door opening operation. Provide parts and supplies as used in the manufacture and installation of original products.
- PART 2 PRODUCTS 2.1 SCHEDULED DOOR HARDWARE
- A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under 1. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive
- qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows: a. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the
- Door Hardware Schedule. B. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.
- 2.2 HANGING DEVICES A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles as specified in the
- Door Hardware Sets. 1. Quantity: Provide the following hinge quantity, unless otherwise indicated:
- a. Two Hinges: For doors with heights up to 60 inches. b. Thress Hinges: For door with heights 61 to 90 inches.
- c. Four Hinges: For door with heights 91 to 120 inches.
- d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches. 2. Hinge Size: Provide the following unless otherwise indicated, with hinge widths sized for door thickness
- and clearances required: a. Widths up to 3'-0'': $4-\frac{1}{2}''$ standard or heavy weight as specified.
- b. Widths up to 3'-1" to 4'-0" : 5" standard or heavy weight as specified. 3. Hinge Weight and Base Material: Unless otherwise indicated, provide as following:
- a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless
- Hardware Sets indicate heavy weight. b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hareware Sets indicate heavy weight
- 4. Hinge Options: Comply with the following where indicated in the Hardware Set or on Drawings.: a. Non-removable Pins: Provide set screw in hinge barrel that when tightened into a groove in hinge pins, prevents removal of pin while door is closed for the following applications:
- 1) Out-swinging doors.
- 2) Out-swinging access controlled doors. 3) Out-swinging lockable doors.
- 5. Acceptable Manufacturers: a. Bommer Industries (BO).
- b. McKinney Products (MK)
- 2.3 DOOR OPERATING TRIM A. Finish Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified automatic, self-latching and manual finish bolts and surface bolts. Manual finish bolts to be furnished with top rod of sufficient legnth to allow bolt locations approximately six feet from the floor. Furnish dust proof strikes for bottom bolts. Surface bolts to be minimum 8" in legnth and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operations. 1. Acceptable Manufacturers:
- a. Rockwood Manufacturers (RO): 2.4 CYLINDERS AND KEYING
- A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy. B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets
- and exit devices, unless otherwise indicated.
- C. Cylinders: Original manufacturer cylinders complying with the following: 1. Mortise Type: Threaded cylinders with rings and straight- or clover-type cam.
- 2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
- 3. Bored-Lock Type: Cylinders with tailpieces to suit locks. 4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
- 5. Keyway: Match Facility Standard.
- D. Keying System: Each type of lock and cylinders to be factory keyed. Conduct specified "Keying Conference" to define and document keying system instructions and requirements. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner. Incorporate decisions made in keying conference, and as follows:
- 1. Master Key System: Cylinders are operated by a change key and a master key. 2. Grand Master Key System: Cylinders are operated by a change key, a master key, and a grand master key. 3. Great-Grand Master Key System: Cylinders are operated by a change key, a master key, a grand master key,
- and a great-grand master key. 4. Existing System: Master key or grand master key locks to Owner's existing system.
- Keyed Alike: Key all cylinders to same change key.
- E. Key Quantity: Provide the following minimum number of keys: 1. Top Master Key: One (1)
- 2. Change Keys per Cylinder: Two (2)
- 3. Master Keys (per Master Key Group): Two (2) 4. Grand Master Keys (per Grand Master Key Group): Two (2)
- 5. Construction Keys (where required): Ten (10)
- Construction Control Keys (where required): Two (2)
- 7. Permanent Control Keys (where required): Two (2)
- F. Construction Keying: Provide construction master keyed cylinders or temporary keyed construction cores where specified. Provide construction master keys in quantity as required by project Contractor. Replace
- construction cores with permanent cores. Furnish permanent cores for installation as directed under specified "Keying Conference". G. Key Registration List: Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
- 2.5 MECHANICAL LOCKS AND LATCHING DEVICES A. Mortise Lockets, Grade 1 (Commercial Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified mortise lockets furnished as specified in the Hardware Sets. Lockets to be manufactured with a single sized steel case, closed on sides and back, and be field-reversible for handing without disassembly of the lock body.
- Locket trim (including knobs, levers, escutheons, roses) to be the product of a single manufacturer. Furnish with standard $2-\frac{3}{4}$ " backset, $\frac{3}{4}$ " one-piece stainless steel latchbolt and a full 1" throw hardened steel bolt for deadbolt functions. 1. Acceptable Manufacturers:
- a. Schlage (SC) L9000 Series.
- B. Lock Trim Design: As specified in Hardware Sets. 2.6 LOCK AND LATCH STRIKES
- A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protet frame, finished to match door hardware set, unless otherwise indicated and as follows: 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer.
- 2. Extra-Long-Lip Strikes: For locks used on frames with supplied wood casing trim. 3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing. B. Standards: Comply with the following:pe
- 1. Strikes for Mortise Locke and Latches: BHMA A156.13.
- 2. Strikes for Bore Locks and Latches: BHMA A156.2. 3. Strikes for Auxillary Deadlocks: BHMA A156.5.
- 4. Dustproof Strikes: BHMA A156.16.







2.7 DOOR CLOSERS

- A. All door closers specified herein shall meet or exceed the following criteria:
- 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized
- covers including installation and adjusting information on inside of cover. 2. Standards: Closers to comply with UL-10C and UBC 7-2 for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
- 3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL. 4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1. 5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware Sets.
- a. Where closers are indicated to have mechanical dead-stop, provide heavy duty arms and brackets with an integral positive stop. b. Where closers are indicated to have mechanical hold open, provide heavy duty units with an additional built-in
- mechanical holder assembly designed to hold open against normal wind and traffic conditions. Holder to be manually selectable to on-off position. c. Where closers are indicated to have a cushion-type stop, provide heavy duty arms and brackets with spring stop
- mechanism to cushion door when opened to maximum degree. d. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics. Provide drop plates or other accessories as required for proper mounting.
- 6. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates, and through-bolt or security type fasteners as specified in the door Hardware Sets. B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch
- 1. Acceptable Manufacturers: a. LCN Closers (LC) - 4040XP Series.

speed control. Provide non-handed units standard.

- 2.8 DOOR STOPS AND HOLDERS
- A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets. B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders. 1. Acceptable Manufacturers:
- a. Rockwood Manufacturing (RO).
- C. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function. 1. Acceptable Manufacturers:
- a. Rixsion Manufacturing (RF).
- b. Rockwood Manufacturing (RO). c. Sargent Manufacturing (SA).
- 2.9 ARCHITECTURAL SEALS A. General Thresholds, weatherstripping and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous wetherstripping gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elswhere where indicated.
- B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are lsited and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.
- 1. Provide smoke labeled perimeter gasketing at all smoke labeled openings. C. Fire Lableed Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdictions, for fire ratings indicated, base on testing according to UL-10C. 1. Provide intumescent seals as indicated to meet UL-10C. Standard for Positive Pressure Fire Tests of Door Assemblies and UBC 7-2, Fire Tests of Door Assemblies.
- D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated, based on testing according to ASTM 1408. E. Replacable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by maufacturer.
- F. Acceptable Manufacturers:
- 1. Pemko Manufacturing (PE). 2.10 FABRICATION
- A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended. 2.11 FINISHES
- A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their products.
- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware.
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping. PART 3 - EXECUTION
- **3.1 EXAMINATION**

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

- B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.
- 3.2 PREPARATION A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.
- B. Wood Doors: Comply with ANSI/DHI A115-W series.
- 3.3 INSTALLATION
- A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
- 1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals. B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless
- specifically indicated or required to comply with governing regulations: 1. Standard Steel Doors and Frame: DHI's "Recoomended Locations for Architectural Hardware for Standard Steel Doors and Frames."
- 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Finish Doors." 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities.
- 4. Provide blocking in drywall partitiions where wall stops or other wall mounted hardware is located. C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.
- D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants." E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the
- handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation. 3.4 FIELD QUALITY CONTROL
- A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.
- 3.5 ADJUSTING A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
- 3.6 CLEANING AND PROTECTION A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.
- B. Clean adjacent surfaces soiled by door hardware installation. C. Clean operating items as necessary to restore proper finish. and provide final protection and maintain
- conditions that ensure door hardware is without damage or deterioration at time of owner occupancy. 3.7 DEMONSTRATION
- A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

- E3.8 DOOR HARDWARE SCHEDULE A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline
- hardware required for proper application and functionality. B. Manufacturer's Abbreviations: 1. MK - McKinney
- 2. RO Rockwood 3. SC - Schlage 4. FA - Falcon
- 5. LC LCN Closers 6. PE - Pemko

SECTION Hardware Schedul

Set: 01 Doors: 211A, 211B 3 Hinge 1 Cylindrical Lock B AU 5407LN K600 1 Door Closer R 7500 1 Door Stop 406

ECTION 09111 METAL STUD FRAMING SYSTEM **OPTIONAL FOR WOOD STUDS)**

- PART 1 GENERAL **1.01 SECTION INCLUDES**
- A. Formed metal stud framing. B. Framing accessories.
- 1.02 RELATED SECTIONS A. Section 09260 - Gypsum Board Systems
- 1.03 SYSTEM DESCRIPTION
- members & clearances of intended openings.

PART 2 PRODUCTS 2.01 MANUFACTURERS

- A. Acceptable manufacturers: 1. Western Steel Framing Systems 2. American Studco, Inc. Angeles Stud
- 2.02 STUD FRAMING MATERIALS A. Studs: ANSI/ASTM A591, electrogalv., non-load bearing rolled steel, channel shaped, punched for utility access.
- 1. Width: Indicated on drawings 2. Thickness: 24 gage as required by Owner.
- Ceiling runners with extended legs.
- D. Fasteners: Self-drilling, self-tapping screws.
- E. Anchorage Devices: Power Driven

PART 3 EXECUTION 3.01 EXAMINATION

- A. Verify conditions are ready to receive work. B. Verify field measurements C. Verify rough-in utilities are in proper location.
- 3.02 ERECTION A. Align and secure top and bottom runners at 16 inches o.c.
- adjacent vertical surfaces.
- E. Stud splicing not permissible. F. Construct corners using minimum three studs.
- J. Align stud web openings.

- deflection transfer to studs.

SECTION 09260 GYPSUM BOARD SYSTEMS

PART 1 GENERAL 1.01 SECTION INCLUDES

- A. Gypsum board with taped & sanded joint treatment. B. See Drawings for drywall finish requirements. 1.02 QUALITY ASSURANCE
- A. Perform Work in accord w/GA201 and GA216. PART 2 PRODUCTS
- 2.01 GYPSUM BOARD SYSTEM A. Manufacturers:
- 1. Celotex Corp. 2. Flintkote Company
- 3. USG Corp. B. Fasteners: ASTM C646, screws.
- 1. Fire Code core, Type X, ASTM C36
- 2.02 ACCESSORIES A. Corner Beads: Metal B. Edge Trim: According to mfr's recommendations.
- D. Adhesive: According to mfr's recommendation.

PART 3 EXECUTION 3.01 INSTALLATION - GYPSUM BOARD

- A. Install gypsum board in accord w/manufacturers instructions. C. Place control joints consistent w/lines of building. D. Place corner beads at external corners. Use longest length.
- 3.02 JOINT TREATMENT receive finishes.

only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional

> TA2714 4-1/2" X 4-1/2" US26D MK 087100 626 YA 087100 NO 087100 689 US32D RO 087100

A. Metal stud framing system & accessories for interior walls. B. Design system to accommodate construction tolerances, deflection of building structural

B. Runners: Of same material and finish as studs, bent leg retainer notched to receive studs. C. Furring & Bracing Members: Of same material and finish as stud thickness to suit purpose.

D. Beginning of installation means installer accepts existing conditions.

B. Fit runners under & above openings; secure intermediate studs at spacing of wall studs. C. Install studs vert. at 16 inches o.c. Place two beads of acoustic sealant between studs &

D. Connect studs to tracks using mechanical fastener method.

G. Double studs at wall openings, door jambs, & not more than 2 inches each side of openings. H. Brace stud framing system to substrate at 48" o.c. and make rigid. I. Coordinate erection of studs w/requirements of door frame supports and attachments.

K. Coordinate installation of bucks, anchors & blocking for toilet room accessories, casework, railings & other required room accessories, casework, door stops, railings & required attachments, & with electrical & mechanical work to be placed in or behind stud framing. L. Blocking: Secure steel channels to studs. Install blocking for support of hardware and rigidity. M. Refer to dwgs for indication of partitions extending to structure above. Maintain clear under structural to structure above. Maintain clearance under structural building members to avoid

C. All Gypsum Board Types: 5/8" thick, Max. permissible length, ends square, cut & tapered edges. 2. "W/R" Moisture Resistant Type: ANSI/ASTM C630, "Green Board."

C. Joint Materials: According to mfr's recommendations.

B. Fasten gypsum board to furring or framing with screws.

E. Place edges trim where gypsum bd. Abuts dissimilar materials.

A. Tape, fill, and sand exposed joints, edges & corners to produce smooth surface ready to

SECTION 09511 **SUSPENDED ACOUSTICAL CEILINGS**

PART 1 GENERAL 1.01 WORK INCLUDED

A. Suspended metal grid ceiling system.

- B. Acoustical tile panels, standard type. 1.02 SUBMITTALS
- A. Provide product data on metal grid system components and acoustic units. B. Submit samples of ceiling panels for Owner selection.
- C. Submit samples illustrating material & finish of each acoustic unit.
- 1.03 SEQUENCING/SCHEDULING A. Do not install acoustical ceilings until bldg. is enclosed, heat is provided, dust generating activities have terminated, overhead work completed, tested and approved.
- B. Schedule installation of acoustic units after interior wet work is dry. 1.04 EXTRA MATERIALS
- A. Provide 2 cases of each size, color and style of acoustical units selected.

PART 2 PRODUCTS 2.01 ACCEPTABLE MANUFACTURERS - SUSPENSION

- A. Donn B. Chicago Metallic
- C. Substitutions: Approved by Owner 2.02 SUSPENSION SYSTEM MATERIALS
- A. Standard Grid: ASTM C635, heavy duty, two directional exposed T components die cut and interlocking. B. Accessories: Stabilizer bars, splices w/ edge moldings required for suspended grid system.
- C. Grid Materials: Commercial quality cold rolled steel galvanized coating. D. Grid Finish: Custom & Standard colors as selected by Owner.
- E. Support Channels & Hangers: Galv. Steel, size & type to suit application, rigidly secure acoustic ceiling system mech. & elec. With maximum deflection of 1/360. F. Provide hold down clips in all entries, vestibules and for a 15 foot radius at the entrance
- each room. 2.03 ACCEPTABLE MANUF. - PANEL UNITS
- A. Armstrong
- B. Celotex C. USG Interiors
- 2.04 ACOUSTIC PANEL UNIT MATERIALS A. Acoustic Panels: Standard sized units. Design and finish as selected by Owner.
- PART 3 EXECUTION 3.01 INSPECTION
- A. Verify that existing conditions are ready to receive work.
- B. Verify that layout of hangers won't interfere with other work. C. Beginning of installation means acceptance of existing conditions.
- 3.02 INSTALLATION
- A. Install system in accord w/mfr's instructions. B. Install hangers & bracing in accord with ICBO Report 262.

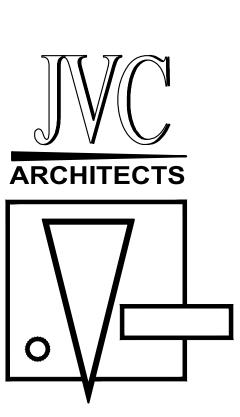
SECTION 10440 INTERIOR SIGNAGE

PART 1 GENERAL 1.1 SUMMARY

- A. Section Includes: Requirements including but not limited to: 1. Interior panel signage for room identification.
- 2. Accessories required for a complete installation.
- 1.2 QUALITY ASSURANCE A. Regulatory Requirements:
- 1. Disability Requirements: Comply with applicable requirements for the American Disabilities Act Accessibility Guidelines (ADAAG) for Buildings and Facilities; Final Guidelines and updates **1.3 SUBMITTALS**
- A. Samples:
- 1. Panel Signs: Sign components for selection of color, pattern and surface texture as required and for verification of compliance with requirements indicated. 2. Dimensional Letters: Provide full-size representative samples of each dimensional letter type required, showing letter style, color, and material finish and method of attachment.
- PART 2 PRODUCTS 2.1 MATERIALS
- A. Manufacturers: Provide products complying with requirements of one of the following:
- Best Manufacturing Company ASI Sign Systems, Inc.
- Spanjer Brothers, Inc.
- The Supersine Company. Vomar Products, Inc.

B. Cast Acrylic Sheet: Cast (not extruded or continuous cast) methyl methacrylate monomer plastic sheet, in sizes and thicknesses indicated, with a minimum flexural strength of 16,000 psi when tested according to ASTM D 790, with a minimum allowable continuous service temperature of 176 degrees F (80 degrees C), and of the following general types:

- 1. Transparent Sheet: Where sheet material is indicated as clear, provide colorless sheet in matte finish, with light transmittance of 92 percent, when tested according to the requirements of ASTM D 1003.
- 2. White Translucent Sheet: Where sheet material is indicated as white, provide white translucent sheet of density required to produce uniform brightness and minimum halation effects. 3. Opaque Sheet: Where sheet material is indicated as opaque, provide colored opaque acrylic sheet in colors and finishes indicated.
- C. Fasteners: Recommended by manufacturer for substrate. 2.2 FABRICATION
- A. Panel Signs: Fabricate one piece molded plastic frame, changeable plaques, edges mechanically and smoothly finished.
- 1. Edge Condition: Bull nose. 2. Corner Condition: Corners rounded to radius indicated.
- 3. For signage at permanent public locations (i.e. toilet rooms), provide signage with characters, symbols, or pictorgraphs raised 1/32 inch and bearing appropriate braille designations.
- PART 3 EXECUTION
- **3.1 INSTALLATION** A. Install units plumb and level, in locations and with mountings shown. Securely attach in accordance with the manufacturer's installation instructions.
- B. Plastic Wall/Door Mounted Signs: Attach panel signs to wall surfaces. 1. Silicone Adhesive Mounting: Use liquid silicone adhesive recommended by the sign manufacturer to attach sign units to irregular, porous, or vinyl covered surfaces. Use double sided vinyl tape where recommended by the sign manufacturer to hold the sign in place until the adhesive has fully cured.







	GENERAL NOTES				
1.	DO NOT SCALE FROM THESE DRAWINGS. DIMENSIONS				SHALL (WORK.
2.	THESE DRAWINGS ARE DIAGRAMMATIC AND ARE INTEN ACCESSORIES REQUIRED FOR PROPER OPERATION OF INDICATED, SHALL BE INCLUDED AND INSTALLED. SUCH FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVI MOTOR STARTERS, ETC.	THE SYSTEMS	, EVEN THOUGH NOT SPECIFICALLY MAY INCLUDE, BUT ARE NOT LIMITED TO,		CONTR
3.	SCOPE OF WORK CONSISTS OF FURNISHING LABOR, MA				FACTO
	ALSO INCLUDES PLACING INTO OPERATION COMPLETE CONDITIONING SYSTEMS AS SPECIFIED AND SHOWN. T EXHAUST FANS, DUCTLESS SPLIT-SYSTEMS, DUCTWOR	HIS INCLUDES,	BUT IS NOT LIMITED TO: HVAC UNITS,		ALL BR
4.	ALL REQUIRED OFFSETS, RISES AND DROPS DUE TO PONOT NECESSARILY SHOWN. MECHANICAL CONTRACTO	R SHALL INCLU	DE A CONTINGENCY IN HIS BID TO OFFSET	26	150 CFN ALL DU
	ANY COST REQUIRED FOR ADDITIONAL FITTINGS AND L THE DESIGN LAYOUT IN ROUTING OF DUCT AND/OR PIP PART OF THE WORK INCLUDED. THE CONTRACTOR SH PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT	ING ARE ANTIC	PATED AND SHALL BE CONSIDERED A E ACTUAL DIMENSIONS OF THE EQUIPMENT		HVAC U HEAVY
5.	HVAC LAYOUT IS BASED ON ARCHITECTURAL DRAWING	S AVAILABLE A	T TIME OF DESIGN. AS STRUCTURAL OR		FLEXIBI 90A. AS
	OTHER FIELD CHANGES MAY OCCUR, CONTRACTOR IS EQUIPMENT AND DUCTWORK BEFORE INSTALLATION. M ANY REQUIRED ALTERATIONS. EITHER CONTRACTOR O THE INTEGRITY OF THE CHANGES WITH THE HVAC DESI	MECHANICAL CO DR OWNER SHA	ONTRACTOR SHALL NOTIFY BUILDER OF LL TAKE RESPONSIBILITY FOR VERIFYING	28.	CONTR REC0MI CONDE
6.	ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH REGULATIONS INCLUDING BUT NOT LIMITED TO NATION	IAL, CITY, STATI	E AND LOCAL ORDINANCES WHICH MAY BE	29.	REFRIG MANUF
	IN EFFECT. ALL HVAC MATERIALS, INSTALLATION PROC ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES H SHALL PROVIDE ALL MATERIALS AND LABOR NECESSAF ORDINANCES AT NO ADDITIONAL COST. THESE CODES I THEREFORE, WHERE DRAWINGS AND/OR SPECIFICATION	IAVING JURISDI RY TO COMPLY REPRESENT TH DNS INDICATE M	CTION. THE MECHANICAL CONTRACTOR WITH THESE RULES, REGULATIONS AND E MINIMUM ACCEPTABLE REQUIREMENTS, ATERIALS OR CONSTRUCTION IN EXCESS	30	PIPING BRAZIN TO COM
7.	OF THESE CODE REQUIREMENTS, THE DRAWINGS AND/ IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTR			50.	CERTAI SHALL I ALL INS
8.	APPROVALS FOR THIS INSTALLATION. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTR	ACTOR TO REV	IEW THESE PLANS AND SPECIFICATIONS,		MANNE
	AS WELL AS THE RELATED HVAC, FIRE PROTECTION, EL DECOR AND SITE ENGINEERING DRAWINGS TO BECOME THE MECHANICAL CONTRACTOR MUST COORDINATE W	E FAMILIAR WIT	H THE FULL PROJECT SCOPE. IN ADDITION,	31.	WRAPP ONE PC
	ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HE THIS CONTRACT. DURING THE COURSE OF CONSTRUCT	REIN AND WHIC	CH THE OWNER MAY CONSIDER PART OF ATION AND ACTUAL CONSTRUCTION, IT IS		DIRECT
	THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR CONTRACTORS AND TRADESMEN IN ORDER TO ENSURI INSTALLATION.			32.	ACOUS CLASSI ADHESI
9.	ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE AND THE RELATED PLUMBING, FIRE PROTECTION, ELEC DECOR AND SITE ENGINEERING DRAWINGS, OR BETWE	CTRICAL, STRUC	TURAL, ARCHITECTURAL, INTERIOR	33.	WRAPP KRAFT-
10	BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCH THE MECHANICAL CONTRACTOR SHALL FURNISH AND II	HITECT AND EN	GINEER PRIOR TO BID SUBMISSION.	34.	DUCTW
10.	REPUTABLE MANUFACTURERS. NO EQUIPMENT SUBST INADEQUATE OPERATING OR SERVICE SPACE. EQUIPM MANUFACTURER'S RECOMMENDED INSTALLATION PRO GREATEST PRACTICAL EASE OF OPERATION AND SERV BE INSTALLED SQUARELY WITH THE BUILDING LINES.	ITUTIONS SHAL IENT SHALL BE CEDURES AND	L BE MADE THAT WOULD LEAVE INSTALLED IN ACCORDANCE WITH IN AN ARRANGEMENT THAT WILL GIVE THE	35.	DIMENS CONTR THERM
11.	CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC., SO WHEN THE SYSTEM IS IN OPERATION.	THAT THERE W	/ILL BE NO VIBRATION AND/OR RATTLING	36.	THESE CONTR
12.	SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUC				WITH A AIR HAI
	PERFORMANCE REQUIRED. THESE QUALIFICATIONS AF PLANS.	RE IN ADDITION	TO THE REQUIREMENTS SHOWN ON THE	37.	VIBRAT COMBIN MANUF
13.	FABRICATE, SUPPORT, TEST AND INSTALL ALL DUCTWC OF THE SMACNA H.V.A.C. DUCT CONSTRUCTION STAND APPLICABLE BUILDING CODES.			38.	VIBRAT DEFLEC
14.	RETURN AIR DUCT TO HAVE AT LEAST ONE (1) 90° ELBO AT THE RETURN AIR GRILLE. PLENUM BOX AT RETURN GRILLES TO BE A MINIMUM OF 3' DISTANCE FROM SMOK	AIR GRILLE TO	BE A MINIMUM 6" DEEP. RETURN AIR	39.	CONTR. ARCHIT
15.	ALL OUTSIDE AIR INTAKES SHALL BE LOCATED A MINIMI FLUE OUTLETS.	UM OF 10' FROM	I ANY PLUMBING VENT, EXHAUST, AND	40.	CONTR. THAT M
16.	EXHAUST DUCTS SHALL TERMINATE THREE (3) FEET FR BACKDRAFT DAMPER. SCREENS SHALL NOT BE INSTAL			41.	WHERE SLEEVE THE BU
17.	ALLOW 24" TO 36" OF STRAIGHT RUN FROM FAN OUTLE EXHAUST DUCTWORK.	T POINT BEFOR	E ADDING AN ELBOW OR BEND TO		CORNIN MATER MAINTA
18.	FLASH AND COUNTER FLASH ALL ROOF PENETRATIONS ROOF PENETRATION.	6. COORDINATE	INSTALLATION OF ALL ROOF FLASHING AT	42.	CONTR DUCTW DRAWII
19.	SEAL ALL REFRIGERATION LINE PENETRATIONS AIR ANI	D WATER TIGHT	w/ SILICONE SEALANT.	43.	THE CC
20.	OWNER TO PROVIDED CONTRACTED WORK FOR TESTIN SHALL INCLUDE THE ENTIRE AIR-SIDE SYSTEM AND BE REQUIREMENTS. TOLERANCES FOR AIR INLETS AND OU	PERFORMED IN	ACCORDANCE WITH NEBB OR AABC		PREVE ACCES MANUA
21.	CONTRACTOR SHALL INSPECT ANY EXISTING DUCTWOP ARCHITECT/ENGINEER AND THE OWNER ANY DEFICIENT				
	ABBREVIATIONS				
	AC AIR CONDITIONING UNIT	DWP	DOMESTIC WATER PUMP	НХ	
	AD ACESS DOOR AFF ABOVE FINISHED FLOOR AH AIR HANDLER	EAT EC EF	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR EXHAUST FAN	HZ ID LAT	
	AHU AIR HANDLING UNIT AL ACOUSTICAL LINING	EJ ER	EXPANSION JOINT EXHAUST REGISTER	LWT LD	
	AP ACCESS PANEL BB ELECTRIC BASEBOARD RADIATION	ESP ET EWT	EXTERNAL STATIC PRESSURE EXPANSION TANK	LF MAU	
	BBOILERBDDBACK DRAFT DAMPERBFCBELOW FINISHED CEILING	EWT EWC FA	ENTERING WATER TEMPERATURE ELECTRIC WATER COOLER FREE AREA	MC MTD MOE	
	BODBELOW FINISHED CEILINGBOBBOTTOM OF BEAMBODBOTTOM OF DUCT	FX FC	FREE AREA FLEXIBLE CONNECTION FAN COIL UNIT	NC NO	1
	BOPBOTTOM OF PIPECCHILLER	FD FLR	FIRE DAMPER FLOOR	NIC NK	i
	CD CEILING DIFFUSER CFM CUBIC FEET PER MINUTE	FOB FOT	FLAT ON BOTTOM FLAT ON TOP	OA OAI	(

FP

FOP

FPM

FTR

GPH

GPM

GC

HD

HP

HV

HWC

HWP

HWR

HWS

FIRE PUMP

FUEL OIL PUMP

HAND DAMPER

HOT WATER PUMP

HEAT PUMP

FEET PER MINUTE

GALLONS PER HOUR

GALLONS PER MINUTE

FINNED TUBE RADIATION

GENERAL CONTRACTOR

HOT WATER CONVERTER

HEATING AND VENTILATING UNIT

HEATING HOT WATER RETURN

HEATING HOT WATER SUPPLY

CHWP

CHWR

CHWS

CO

CWR

CWS CT

CU

CUH

CVB

CWP DB DS

CP

CHILLED WATER RETURN

CHILLED WATER SUPPLY

CONDENSER WATER RETURN

CONDENSER WATER SUPPLY

CHILLED WATER PUMP

CONDENSATE PUMP

COOLING TOWER

CONDENSING UNIT

CABINET UNIT HEATER

CONSTANT VOLUME BOX

CONDENSER WATER PUMP

CLEAN OUT

DRY BULB

DUCT SILENCER

L CLEAN ALL EXISTING DUCTWORK, GRILLES, REGISTERS AND DIFFUSERS PRIOR TO INSTALLING THE NEW K.
TRACTOR SHALL PAINT BLACK BEHIND ALL GRILLES AND REGISTERS AND INSIDE OF DUCT WHERE VISIBLE.
ESS NOTED OTHERWISE, DUCTWORK BEYOND SA & RA PLENUMS MAY BE CONSTRUCTED OF METAL, OR FORY-MANUFACTURED INSULATED DUCTWORK.
BRANCH DUCTS TO HAVE VOLUME DAMPERS WHETHER SHOWN OR NOT.
OTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS FM.
DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE
C UNIT FLEXIBLE DUCT CONNECTIONS SHALL BE A MINIMUM OF 6 INCHES LONG AND HELD IN PLACE WITH /Y METAL BANDS, SECURELY ATTACHED TO PREVENT ANY LEAKAGE AT THE CONNECTION POINTS. IBLE CONNECTIONS SHALL BE FABRICATED FROM APPROVED FLAME PROOF FABRIC CONFORMING TO NFPA ASBESTOS CLOTH IS NOT ACCEPTABLE.
TRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S OMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICIOUS AND FREE FROM ANY POSSIBLE DENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR- FLEX TYPE INSULATION.
RIGERANT PIPING OTHER THAN PRECHARGED TUBING SETS FURNISHED BY AIR CONDITIONING JFACTURER SHALL BE TYPE "ACR" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. IG SHALL BE INSTALLED IN ACCORDANCE WITH ARI STANDARDS. USE EASY-FLO OR SAFETY SILVER ZING ALLOY TO MAKE JOINTS. RUN ALL HORIZONTAL LINES DEAD LEVEL TO ENSURE PROPER GAS RETURN OMPRESSOR.
MATERIALS OF INSULATION SHALL BE OF THE TYPE AND QUALITY AS MANUFACTURED BY ARMSTRONG, TAINTEED, OWENS-CORNING OR MANVILLE. ALL MATERIAL AND EQUIPMENT SPECIFIED TO BE INSULATED LL BE THOROUGHLY TESTED AND APPROVED PRIOR TO APPLYING THE INSULATION. THE INSTALLATION OF NSULATION SHALL BE PERFORMED BY AN EXPERIENCED CRAFTSMAN IN A NEAT WORKMANSHIP-LIKE NER AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS FOR /ICE INTENDED.
PPED INSULATION ON DUCTWORK SHALL BE 1-1/2 INCH THICK GLASS FIBER FLEXIBLE DUCT INSULATION, POUND DENSITY WITH UL APPROVED FOIL SCRIM KRAFT FRJ JACKET. SECURE WITH ADHESIVE APPLIED CTLY TO THE DUCT IN 4 INCH WIDE STRIPS AROUND THE DUCT ON 12 INCH CENTERS AND TAPE ALL JOINTS.
JSTICAL DUCT LINING SHALL BE 1 INCH THICK OWENS-CORNING AEROFLEX TYPE 300 COMPLYING WITH FIRE SIFICATION REQUIREMENTS OF NFPA 90A AND 90B. ADHERE LINER TO DUCT WITH FIRE RESISTANT ESIVE AND WELDED PIN TYPE MECHANICAL FASTENERS AS INDICATED IN SMACNA STANDARDS.
PPED INSULATION ON ROUND DUCTWORK SHALL BE 1-1/2 INCH THICK GLASS FIBER WITH LAMINATED T-FOIL VAPOR BARRIER 2PC COMPLYING WITH FIRE CLASSIFICATION REQUIREMENTS OF NFPA 90A AND 90B.
TWORK DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. DIMENSIONS SHALL BE EASED TO ACCOMMODATE LINING THICKNESS. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. NSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
TRACTOR SHALL PROVIDE ALL AIR TEMPERATURE CONTROLS INCLUDING WIRING, TUBING AND RMOSTATS (WITH LOCKING COVERS)AND ALL MISCELLANEOUS APPURTENANCES TO MEET THE INTENT OF SE DOCUMENTS.
TRACTOR SHALL FURNISH AND INSTALL UL LISTED DUCT SMOKE DETECTORS AS SHOWN ON DRAWINGS

AUXILIARY CONTACTS FOR CONNECTION TO THE FIRE ALARM SYSTEM. DETECTORS SHALL DE-ENERGIZE ANDLING UNIT UPON ACTIVATION. ATION ISOLATORS FOR HANGING EQUIPMENT SHALL BE EQUAL TO MASON INDUSTRIES MODEL 30N, BINATION SPRING AND DOUBLE DEFLECTION NEOPRENE HANGER, OR DEFLECTION AS RECOMMENDED BY

JFACTURER. ATION ISOLATORS FOR BASE MOUNTED EQUIPMENT SHALL BE EQUAL TO MASON INDUSTRIES MODEL SLF, LECTION AS RECOMMENDED BY MANUFACTURER.

TRACTOR SHALL VISIT THE SITE AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE HITECT/ENGINEER AND THE OWNER OF ANY DISCREPANCIES BEFORE PERFORMING THE WORK.

TRACTOR SHALL SCHEDULE ALL SHUTDOWNS THAT AFFECT UTILITIES AND PORTIONS OF THE BUILDING MUST REMAIN IN OPERATION WITH THE OWNER.

RE CONDUIT, CABLES, DUCTWORK OR PIPING PASSES THROUGH FIRE RATED FLOORS OR WALLS, THE VES SHALL BE COMPLETELY SEALED WITH A FIRE STOP MATERIAL THAT IS ULLISTED AND ACCEPTED BY BUILDING DEPARTMENT AND FIRE DEPARTMENT AS BEING SUITABLE FOR THIS SERVICE SUCH AS DOW NING CORP., SILICONE ELASTOMER, DOW CORNING 3-6548 SILICONE RTV FOAM, OR APPROVED EQUAL. THIS RIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MANUFACTURER TO TAIN THE FIRE RATING OF THE PENETRATED WALL OR FLOOR

TRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL WORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTI- TION, OR AS OTHERWISE SHOWN ON VINGS.

CONTRACTOR SHALL PROVIDE MAINTENANCE INSTRUCTIONS FOR EQUIPMENT AND SYSTEM THAT REQUIRE /ENTATIVE MAINTENANCE. INSTRUCTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ESSIBLE LABEL AND INCLUDE THE TITLE OR PUBLICATION NUMBER FOR THE OPERATION AND MAINTENANCE JAL FOR THAT PARTICULAR MODEL AND TYPE OF PRODUCT.

OAI OAT OC

OD OBD PBD PRV PTAC

RA

RAG

RAR RCP RHC

RF

SA

SAR SCG SD SEF SF SP TG TYP UH UON	SUPPLY AIR REGISTER SMOKE CONTROL GRILLE SMOKE DAMPER SMOKE EXHAUST FAN SUPPLY FAN STATIC PRESSURE TRANSFER GRILLE TYPICAL UNIT HEATER UNLESS OTHERWISE NOTED
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME UNIT
VD	VOLUME DAMPER
VTR	VENT THRU ROOF
WB	WET BULB
WMS	WIRE MESH SCREEN

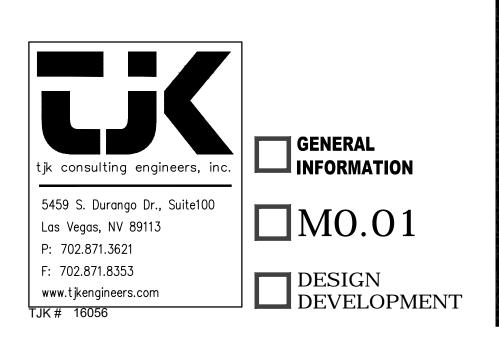
SYMBOL	DESCRIPTION
20"Ø	ELBOW UP DIMENSION DESC 14"Ø = ROUND DU = FLAT OVAL DUC
$\bigcirc) \qquad \qquad$	ELBOW DOWN
R	LONG RADIUS ELBOW RADIUS (R) = DIAMETER OF DUCT <u>DIMENSION DESC</u> 1ST FIGURE = SIE 2ND FIGURE = SIE
36x24	SUPPLY AIR ELBOW UP
	SUPPLY AIR ELBOW DOWN
	EXHAUST/RETURN AIR ELBOW UP
3	EXHAUST/RETURN AIR ELBOW DO
36x12 24x12	DOUBLE SIDE TRANSITION TRANSI SLOPE SPECIFICATION: MINIMUM SLOPE = 15° MAXIMUM SLOPE = 45°
36x12 24x12	SINGLE SIDE TRANSITION
36x12 24x12	TOP TRANSITION (SLOPE ON TOP)
36x12 24x12	BOTTOM TRANSITION (SLOPE ON E
╞ <u>───</u> ┥	ACOUSTICALLY LINED SHEET MET
	MANUAL BALANCING DAMPER
	FLEX CONNECTOR
A.D.	ACCESS DOORS
F/D F/SD S/D	FIRE DAMPER, FIRE/SMOKE DAMPE DAMPER
	TURNING VANE ELBOW
	45° LOW-LOSS TAKE-OFF FITTING \ FLEX DUCT
	45° LOW-LOSS TAKE-OFF FITTING RIGID DUCT
	90° TEE TAKE-OFF FITTING
	CONICAL 90° TEE TAKE-OFF FITTIN
	45° TEE TAKE-OFF FITTING
	LOW LOSS TAKE-OFF FITTING
SA	SUPPLY AIR DUCT (SINGLE LINE)
RA	RETURN AIR DUCT (SINGLE LINE)
EA	EXHAUST AIR DUCT (SINGLE LINE)
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SIDE WALL SUPPLY AIR REGISTER
	DIFFUSER, REGISTER OR GRILLE
	4-WAY THROW PATTERN UNLESS

E	BOTTOM TRANSITION (SLOPE ON BO
	ACOUSTICALLY LINED SHEET METAL
ſ	MANUAL BALANCING DAMPER
F	LEX CONNECTOR
,	ACCESS DOORS
•	FIRE DAMPER, FIRE/SMOKE DAMPER DAMPER
٦	MOTORIZED DAMPER
-	TURNING VANE ELBOW
	45° LOW-LOSS TAKE-OFF FITTING W/ FLEX DUCT
	45° LOW-LOSS TAKE-OFF FITTING W/ RIGID DUCT
ę	90° TEE TAKE-OFF FITTING
(CONICAL 90° TEE TAKE-OFF FITTING
2	45° TEE TAKE-OFF FITTING
l	LOW LOSS TAKE-OFF FITTING
Ş	SUPPLY AIR DUCT (SINGLE LINE)
F	RETURN AIR DUCT (SINGLE LINE)
E	EXHAUST AIR DUCT (SINGLE LINE)
F	RETURN AIR GRILLE
E	EXHAUST AIR GRILLE

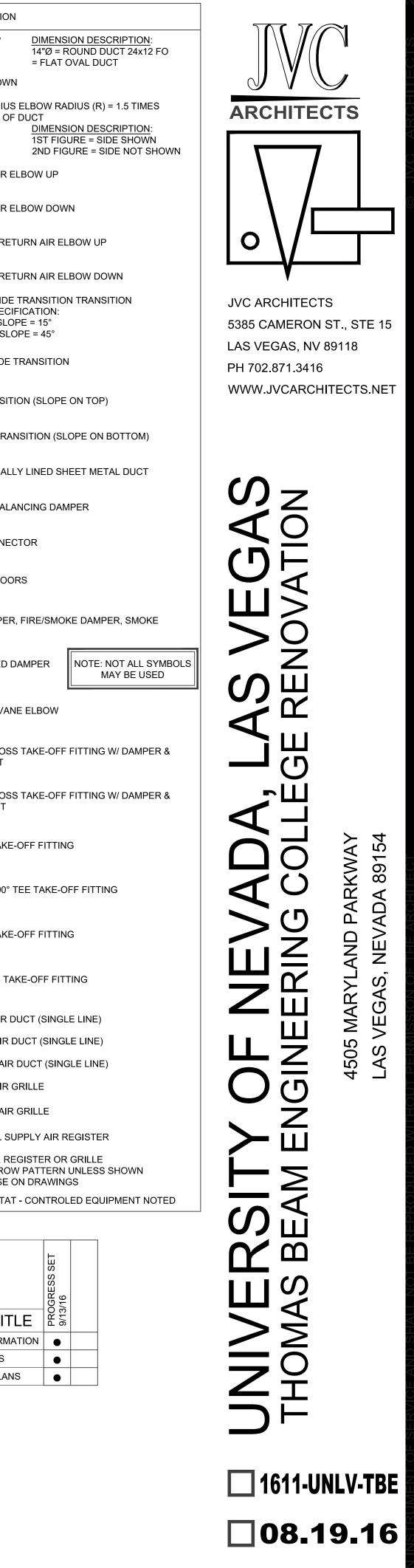
. SUPPLY AIR REGISTER REGISTER OR GRILLE 4-WAY THROW PATTERN UNLESS SHOWN OTHERWISE ON DRAWINGS THERMOSTAT - CONTROLED EQUIPMENT NOTED

SHEET	INDEX	GRESS SET /16	
SHEET NUMBER	SHEET TITLE	PROGR 9/13/16	
M0.01	GENERAL INFORMATION	•	
M0.02	SPECIFICATIONS		
M1.01	MECHANICAL PLANS		

①_{RTU-1}



HVAC LEGEND



PART I - GENERAL

- A. <u>CONDITIONS</u>
- GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS, SPECIAL CONDITIONS, AND OTHER RELATED PORTIONS OF DIVISION 1, APPLY TO THIS SECTION.
- B. <u>SUMMARY OF WORK</u>
- THE WORK INCLUDED CONSISTS OF FURNISHING LABOR, MATERIALS AND EQUIPMENT FOR THE INSTALLATION. IT ALSO INCLUDES PLACING INTO OPERATION A COMPLETE AND OPERABLE HEATING, VENTILATING AND AIR CONDITIONING SYSTEM AS SPECIFIED AND SHOWN. THIS INCLUDES, BUT IS NOT LIMITED TO: HVAC UNITS, EXHAUST FANS, DUCTLESS SPLIT-SYSTEMS, DUCTWORK, AIR DISTRIBUTION, CONTROLS AND ACCESSORIES, EXCEPT AS OTHERWISE NOTED.
 <u>REGULATIONS, CODES, PERMITS AND INSPECTIONS</u>
- COMPLY WITH NATIONAL, STATE, COUNTY, AND CITY CODES, ORDINANCES, ETC., HAVING JURISDICTION. THIS INCLUDES RULES AND REQUIREMENTS OF UTILITY SERVING AGENCIES.
- INCORPORATE CODES, ORDINANCES, ETC., INTO THE BASE BID AND INSTALLATION OF WORK. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK REQUIRED TO CONFORM TO REGULATIONS AND REQUIREMENTS OR TO OBTAIN APPROVAL OF WORK.
- 3. OBTAIN AND PAY FOR REQUIRED PERMITS AND LICENSES. WHEN REQUIRED BY CODE, WORK MUST BE INSPECTED AND APPROVED BY LOCAL
- AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY LOCAL AUTHORITIES.
 4. IN ADDITION, THE LATEST ADOPTED EDITION OF THE FOLLOWING CODES AND PUBLISHED STANDARDS SHALL BE ADHERED TO:
- 4.1. 2012 INTERNATIONAL BUILDING CODE (IBC)4.2. 2012 UNIFORM MECHANICAL CODE (UMC)
- 4.3. NFPA STANDARDS4.4. ASHRAE HANDBOOKS
- 4.5. SMACNA DUCT CONSTRUCTION STANDARDS4.6. 2012 UNIFROM PLUMBING CODE (UPC)
- 4.6. 2012 UNIFROM PLUMBING CODE (UPC) 4.7. 2011 NATIONAL ELECTRIC CODE (NEC) 4.8 SOLITHERN NEVADA CODE AMENIDMENTS
- 4.8. SOUTHERN NEVADA CODE AMENDMENTS4.9. 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- D. <u>DESIGN DRAWINGS</u>
- 1. DESIGN DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED ONLY TO DEFINE THE BASIC FUNCTIONS REQUIRED. PROVIDE LABOR, MATERIAL, ETC., NECESSARY TO ACCOMPLISH THESE REQUIREMENTS. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED A PART OF THE WORK INCLUDED. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE PERMITTED. DO NOT SCALE THE DESIGN DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
- 2. IF A CONFLICT OCCURS BETWEEN THE DESIGN DRAWINGS AND SPECIFICATIONS, PROMPTLY NOTIFY THE ARCHITECT AND/OR ENGINEER. AT THAT POINT, AN INTERPRETATION WILL BE MADE BY THE ARCHITECT AND/OR ENGINEER AND SAID DECISION SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
- E. QUALIFICATIONS OF CONTRACTOR AND WORKMEN
- 1. CONTRACTOR SHALL BE PROPERLY LICENSED TO PERFORM THE WORK.
- F. <u>BASE BID</u>
- 1. BASE BID SHALL INCLUDE MATERIALS AND EQUIPMENT SPECIFIED OR SCHEDULED ON THE DRAWINGS. REQUESTS FOR SUBSTITUTION OF
- MATERIALS AND EQUIPMENT SHALL BE BY ADDITIVE OR DEDUCTIVE ALTERNATE BID ONLY. THE FOLLOWING DATA MUST BE CLEARLY WRITTEN AT
- THE BEGINNING OF THE ALTERNATE PROPOSAL: 1.1. ADDITIVE OR DEDUCTIVE AMOUNT CLEARLY WRITTEN IN WORDS AND NUMERALS.
- 1.2. INCREASED OR REDUCED CONSTRUCTION TIME IN DAYS.
 1.3. OTHER DEMONSTRABLE BENEFIT, FOR WHICH THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S INTEREST.
- 2. ONLY THOSE MATERIALS AND EQUIPMENT WHICH ARE SUBMITTED AS AN ALTERNATE BID, WHICH ARE ACCOMPANIED BY THE SUPPORTING DATA INDICATED BELOW WILL BE REVIEWED AND CONSIDERED.
- G. <u>SUBSTITUTIONS</u>
- 1. MATERIALS AND EQUIPMENT THAT ARE A SUBSTITUTE FROM THE LISTED MANUFACTURER MAY BE CONSIDERED. PRIOR TO PROPOSING ANY SUBSTITUTE ITEM, CONTRACTOR SHALL SATISFY HIMSELF THAT THE ITEM PROPOSED IS, IN FACT, EQUAL TO THAT SPECIFIED, THAT SUCH ITEM WILL FIT INTO THE SPACE ALLOCATED, THAT SUCH ITEM AFFORDS COMPARABLE EASE FOR OPERATION, MAINTENANCE AND SERVICE, THAT THE APPEARANCE, LONGEVITY, CAPACITY, SUITABILITY, AND ELECTRICAL CHARACTERISTICS ARE COMPARABLE, THAT BY REASON OF COST SAVINGS, REDUCED CONSTRUCTION TIME, OR SIMILAR DEMONSTRABLE BENEFIT, THE SUBSTITUTION OF SUCH ITEM WILL BE IN THE OWNER'S INTEREST.
- 2. THE BURDEN OF PROOF OF EQUALITY OF A PROPOSED SUBSTITUTION FOR A SPECIFIED ITEM SHALL BE UPON THE CONTRACTOR. CONTRACTOR SHALL SUPPORT HIS REQUEST WITH SUFFICIENT TEST DATA AND OTHER MEANS TO PERMIT THE ENGINEER TO MAKE A FAIR AND EQUITABLE DECISION ON THE MERITS OF THE PROPOSED SUBSTITUTION. INSUFFICIENT SUBMITTAL DATA WILL RESULT IN REJECTION OF THE PROPOSED SUBSTITUTION. ANY ITEM BY A MANUFACTURER OTHER THAN THOSE SPECIFIED, OR OF BRAND NAME, MODEL NUMBER, OR OF GENERIC SPECIES OTHER THAN THOSE SPECIFIED, WILL BE CONSIDERED A SUBSTITUTION. ENGINEER WILL BE THE SOLE JUDGE OF WHETHER OR NOT THE SUBSTITUTION IS EQUAL IN QUALITY, UTILITY AND ECONOMY TO THAT SPECIFIED.
- 3. APPROVAL OF A SUBSTITUTION SHALL NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT. CONTRACTOR SHALL BEAR THE EXPENSE FOR ANY CHANGES IN

OTHER PARTS OF THIS WORK OR OTHER WORK CAUSED BY THE PROPC SUBSTITUTION, INCLUDING BUT NOT LIMITED TO STRUCTURAL, ELECTRI PLUMBING, AND ACCESS REQUIREMENTS.

- 4. IF ENGINEER REJECTS CONTRACTOR'S SUBSTITUTE ITEM ON THE FIRST SUBMITTAL, CONTRACTOR MAY MAKE ONLY ONE ADDITIONAL REQUEST SUBSTITUTION IN THE SAME CATEGORY.
- 5. ANY EQUIPMENT SUBSTITUTED WITHOUT THE ENGINEER'S WRITTEN APPROVAL WILL BE REMOVED AND REPLACED WITH THE SPECIFIED EQUIPMENT AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL TO THE OWNER.
- H. <u>SUBMITTALS</u>
- EQUIPMENT AND MATERIALS:
 CONTRACTOR SHALL HAVE APPROVED SUBMITTALS PRIOR TO FABRICATION OR DELIVERY OF ANY MATERIAL AND/OR EQUIPMENT THE JOB SITE. SUBMIT A <u>MINIMUM</u> OF 8 (EIGHT) COPIES, COMPREHENSIVELY INDEXED SUBMITTALS IN A 3-RING BINDER, COMPLETELY DESCRIBING EACH MAJOR SYSTEM, MATERIAL AND EQUIPMENT PROPOSED TO BE USED. ANY PIECE OF EQUIPMENT PI ON THE JOB WITHOUT PRIOR APPROVAL WILL BE SUBJECT TO REM
- AT THE SOLE EXPENSE OF THE CONTRACTOR.
 1.2. SUBMITTALS ARE FOR INFORMATION AND COORDINATION ONLY. RE OF MATERIAL AND/OR EQUIPMENT SUBMITTALS SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY W PLANS AND SPECIFICATIONS REQUIREMENTS. POINTS OF NON-COMPLIANCE WHICH ARE NOT NOTED SHALL NOT BE CONSTRU-TO DE ANA ADDROVAL OF THE NON COMPLIANCE. SUBMITTALS SHALL
- TO BE AN APPROVAL OF THE NON-COMPLIANCE. <u>SUBMITTALS SHAI</u> <u>CLEARLY STATE WHERE EQUIPMENT DOES NOT AGREE WITH THE</u> <u>CONTRACT DOCUMENTS.</u>
 1.3. SUBMITTALS SHALL INCLUDE MANUFACTURER'S SPECIFICATIONS, PHYSICAL DIMENSIONS, WEIGHTS AND RATINGS OF EQUIPMENT SUBMITTED. INDICATE EQUIPMENT LAYOUTS, ELECTRICAL CHARACTERISTICS, WIRING AND CONTROL DIAGRAMS, SIZES AND LOCATIONS OF PIPING, DUCT, CONDUITS, AND OTHER CONNECTION AND LOCATIONS.
- 2. SHOP DRAWINGS:
- 2.1. CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED 1/4"=1'-0" SC DRAWINGS THAT HAVE BEEN PROPERLY COORDINATED WITH OTHE TRADES. INDICATE LOCATION AND SIZES OF ACCESS PANELS IN H/ CEILINGS FOR EQUIPMENT AND DAMPER ACCESS.
- AS BUILT DRAWINGS:
 MAINTAIN ACCURATE RECORDS OF ANY CHANGES FROM THE CONDOCUMENTS AND SHOP DRAWINGS. UPON COMPLETION OF THE PROJECT, DELIVER TO THE ENGINEER ONE (1) SET OF LEGIBLE REPRODUCIBLES AND (3) BLUELINE SETS OF THESE RECORD DRAW
- WARRANTY:
 UNLESS SPECIFIED OTHERWISE BY ARCHITECT, ENGINEER, OWNER OWNER'S REPRESENTATIVE, UPON COMPLETION OF THE PROJECT, DELIVER TO THE OWNER A WRITTEN ONE (1) YEAR WARRANTY ON SYSTEMS, MATERIALS AND ALL WORK PERFORMED. THIS INCLUDE ENTIRE COST, INCLUDING MATERIALS AND/OR LABOR, OF CORRECT WORK REQUIRED AND NECESSITATED BY DEFECTS IN MATERIALS A WORKMANSHIP. CONTRACTOR SHALL ALSO PRESENT THE OWNER A COPY OF ALL MANUFACTURER'S WARRANTIES THAT EXCEED THE WARRANTY PERIOD, SUCH AS AC UNIT COMPRESSORS.
- OPERATION AND MAINTENANCE INSTRUCTIONS:
 UPON THE COMPLETION OF THE PROJECT, DELIVER TO THE OWNER REQUIRED NUMBER OF COPIES OF HARD BOUND O & M MANUALS. INCLUDE IN THE MANUAL INSTRUCTIONS PREPARED SPECIFICALLY THE SYSTEMS PROVIDED, ALONG WITH DESCRIPTIONS, PARTS LIST INSTRUCTIONS, AND WARRANTIES. START-UP REPORTS FOR ALL EQUIPMENT WILL BE DELIVERED WITH THE MATERIALS AND EQUIPM UTILIZED IN THE PROJECT. IDENTIFY EACH ITEM BY THE DESIGNAT APPEARING ON THE DRAWINGS.
- OWNER TRAINING:
 AT A TIME DESIGNATED BY THE OWNER, PROVIDE A SUITABLE TECHNICIAN, MECHANIC OR ENGINEER TO REVIEW THE SYSTEMS W OWNER'S REPRESENTATIVE TO THOROUGHLY FAMILIARIZE HIM WIT OPERATIONS AND MAINTENANCE OF THE SYSTEMS. UP TO (8) EIGH HOURS TOTAL TRAINING TIME SHALL BE REQUIRED WITHOUT ADDIT COST TO THE OWNER. PRIOR TO TRAINING THE OWNER SHALL HAV TAKEN POSSESSION OF THE 0 & M MANUALS, AND SHALL HAVE HAE REASONABLE AMOUNT OF TIME FOR THE PERSONNEL TO FAMILIARI THEMSELVES WITH THE CONTENTS OF THE MANUALS.
- PART II PRODUCTS
- A. <u>GENERAL PRODUCTS</u>1. SEISMIC RESTRAINTS:
- 1.1. WHERE REQUIRED BY THE BUILDING OFFICIALS/BUILDING CODES, FURNISH AND INSTALL SEISMIC RESTRAINTS FOR DUCTWORK, PIPIN AND EQUIPMENT. SEISMIC RESTRAINTS SHALL BE DESIGNED TO RE SEISMIC FORCES PRESCRIBED IN THE BUILDING CODES FOR THE PROJECT LOCATION.
- WHERE REQUIRED BY THE BUILDING OFFICIAL, PROVIDE STRUCTUR CALCULATIONS SEALED AND SIGNED BY A LICENSED STRUCTURAL ENGINEER.
 REFERENCE THE LATEST EDITION OF THE SMACNA SEISMIC RESTR MANUAL FOR GUIDELINES.
- 2. FURNISH AND INSTALL NEW PRODUCTS OF ESTABLISHED AND REPUTAL MANUFACTURERS. SEE LIST OF ACCEPTABLE MANUFACTURERS ELSEV IN THESE SPECIFICATIONS. MAKE NO EQUIPMENT SUBSTITUTIONS THAT WOULD LEAVE INADEQUATE OPERATING OR SERVICING SPACE. REFER 'SUBSTITUTIONS' SECTION OF THE SPECIFICATION.
- 3. ACCESSORIES REQUIRED FOR PROPER OPERATION OF THE SYSTEMS, I THOUGH NOT SPECIFICALLY INDICATED, SHALL BE INCLUDED AND INSTA SUCH ACCESSORIES MAY INCLUDE, BUT ARE NOT LIMITED TO, FILTERS, CONDENSATE DRAINS, RELIEF VALVES, SERVICE VALVES, THERMOSTAT VIBRATION ISOLATORS, ETC. MOTOR STARTERS FOR PREWIRED EQUIP AND OTHER PROTECTION AND CONTROL DEVICES ARE TO BE FURNISHE UNDER THE MECHANICAL CONTRACTOR'S SCOPE OF WORK. STARTERS NON-PREWIRED EQUIPMENT, I.E., FANS, PUMPS ETC., ARE UNDER THE ELECTRICAL CONTRACTOR'S SCOPE OF WORK, UNLESS NOTED OTHERV
- I. SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND PERFORMANCE REQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIREMENTS SHOWN ON T PLANS AND ELSEWHERE IN THESE SPECIFICATIONS. LISTING OF ALTERI EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS AN UNCONDITIONAL APPROVAL OF THE PRODUCTS OF THOSE MANUFACTU

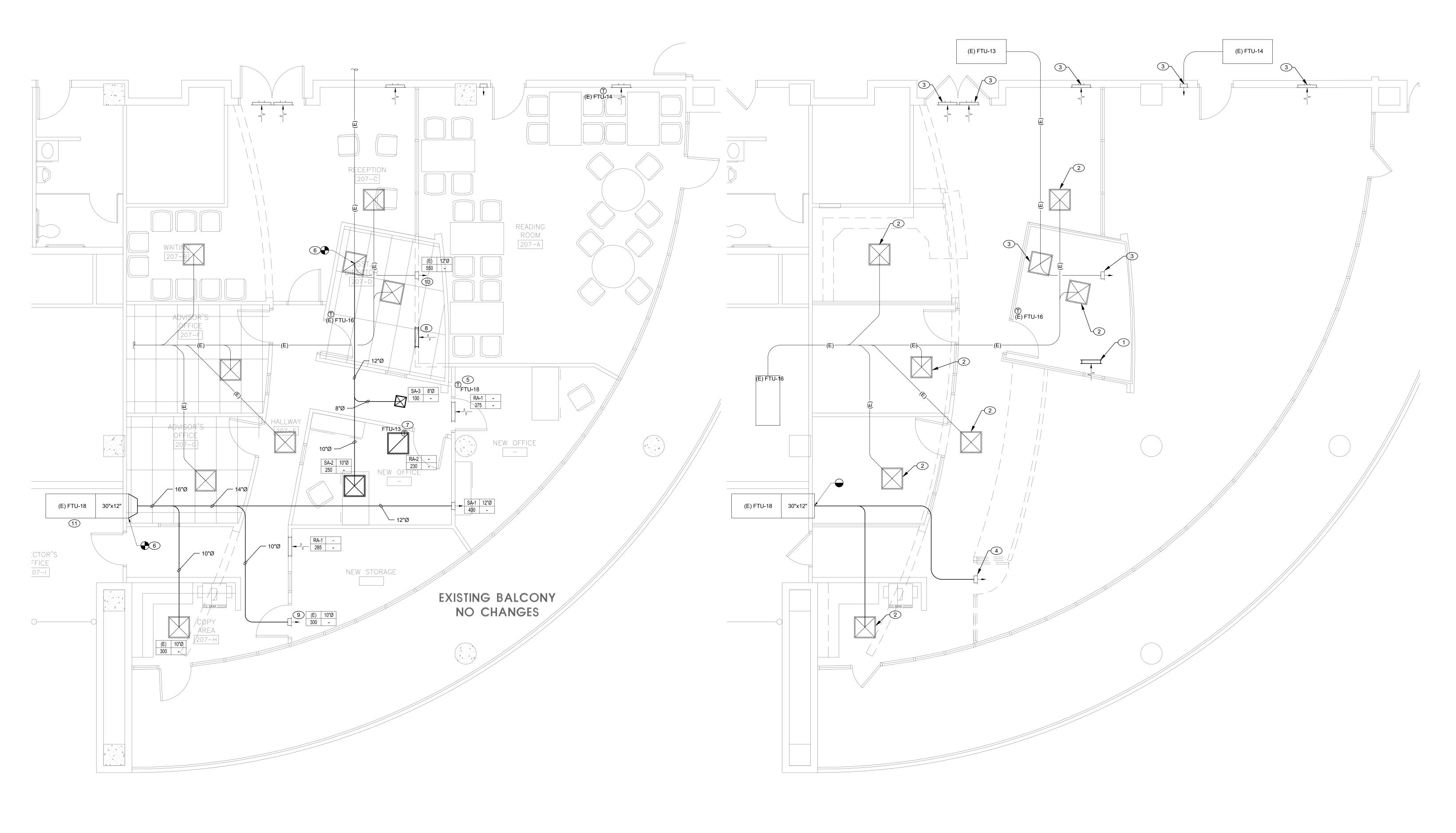
OSED	D.	DUCTWORK	PA	ART III - EXECUTION
RICAL,	1.	PROVIDE A COMPLETE SYSTEM OF DUCTWORK FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST VERSIONS OF THE ASHRAE	A.	GENERAL
T F FOR		FUNDAMENTALS HANDBOOK AND SMACNA DUCT CONSTRUCTION STANDARDS. DUCT SYSTEM SHALL BE CONSTRUCTED AS REPRESENTED ON THESE DRAWINGS AND AS COORDINATED IN DETAIL ON THE APPROVED DUCTWORK	1.	INSTALL MATERIALS AND EQUIPMENT IN AN ARRANGEMENT THAT WILL GIVE THE GREATEST PRACTICAL EASE OF OPERATION AND SERVICE TO THE OWNER.
		SHOP DRAWINGS. IF ADDITIONAL CHANGES IN DUCT ARRANGEMENT OR IN DUCT SIZES ARE REQUIRED, THEY SHALL BE MADE ONLY AFTER WRITTEN APPROVAL IS OBTAINED FROM THE ENGINEER.	2.	INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES.
COST	2.	MAIN AND BRANCH DUCTS SHALL BE RECTANGULAR, ROUND, OR FLAT-OVAL, AND SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL UNLESS NOTED OTHERWISE. DUCT SIZES SHOWN ON THE DRAWINGS ARE NET OPENINGS AND SHALL BE INCREASED TO ACCOMMODATE DUCT LINING WHERE	3.	INSTALL MATERIALS AND EQUIPMENT SQUARELY WITH THE BUILDING LINES. PROVIDE RIGID PERMANENT BASES AND SUPPORTS FOR WORK.
то	3.	APPLICABLE. FLEXIBLE DUCT SHOWN AT CONNECTION TO AIR DISTRIBUTION DEVICES	4.	CONSTRUCT AND BRACE EQUIPMENT, PIPING, ETC., SO THAT THERE WILL BE NO VIBRATION AND/OR RATTLING WHEN THE SYSTEM IS IN OPERATION.
LACED	5.	SHALL BE A FABRICATED ASSEMBLY WITH AN ACOUSTICALLY-RATED CORE CONSISTING OF AN INNER SLEEVE, 2-INCH THICK FIBERGLASS INSULATION, WITH AN R-6.0 MINIMUM AND AN OUTER VAPOR BARRIER COVERING EQUAL TO THERMAFLEX M-KE.	5.	COVER AND PROTECT EQUIPMENT AND MATERIALS FROM WEATHER, THEFT, ETC., UNTIL DATE OF COMPLETION. PLUG AND/OR CAP OPEN ENDS OF INSTALLED PIPING AND/OR DUCTWORK PENDING EXTENSION OR FINAL CONNECTION.
EVIEW	4.	WHETHER SHOWN ON PLANS OR NOT, PROVIDE MANUAL VOLUME DAMPERS IN EACH RUNOUT TO EACH SUPPLY DIFFUSER OR REGISTER, RETURN AND	В.	DUCTWORK
VITH		EXHAUST GRILLE AND ALSO AS REQUIRED FOR A PROPERLY BALANCED SYSTEM. PROVIDE ACCESS PANELS TO DAMPERS LOCATED ABOVE HARD CEILINGS.	1.	CONSTRUCT DUCTWORK WITH MATERIAL, GAUGES, JOINTS, BRACING AND SUPPORTS IN ACCORDANCE WITH LATEST SMACNA STANDARDS.
UED LL	5.	VOLUME DAMPERS FOR RECTANGULAR DUCTS SHALL BE CONSTRUCTED OF	2.	DUCTWORK SHALL BE RIGIDLY CONSTRUCTED AND SUBSTANTIALLY
		16 GAUGE GALVANIZED STEEL, BE OF THE OPPOSED BLADE TYPE AND BE FURNISHED WITH LOCKING AND INDICATING QUADRANTS. DAMPERS FOR ROUND DUCTS SHALL BE SINGLE-BLADE TYPE UP TO 30"Ø. USE CONTINUOUS ROD ON 2" W.G. CLASS DAMPERS FROM 12"Ø-28"Ø, AND RECTANGULAR DUCTS FROM 18"-48" WIDE.		AIR-TIGHT. SEAL ALL DUCTWORK WITH A WATER BASED DUCT SEALANT (DESIGN POLYMERICS DP-1010 OR EQUAL) OR ARABOL AND CANVAS TAPE. DO NOT UTILIZE PRESSURE SENSITIVE TAPES. SEAL DUCTWORK IN ACCORDANCE WITH TABLE 4-1 "APPLICABLE LEAKAGE CLASSES" OF THE LATEST SMACNA HVAC LEAKAGE TEST MANUAL.
N SIZES CALE ER	6 6 6	 ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF ROUND SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW CONICAL TEE. CONICAL SADDLE TAP. ELBOW (IF LAST FITTING). 45° TEE OR SADDLE TAP. 	3.	MAKE CONNECTIONS BETWEEN FLEXIBLE DUCTS AND RIGID TRUNK DUCTS WITH FACTORY FABRICATED FITTINGS WITH DAMPER. SECURE FLEX DUCT TO FITTING WITH CLAMPS OR PANDUIT STRAPS INSTALLED TO FACTORY RECOMMENDED TENSION. INSTALL CLAMPS ON LINER AND SECOND CLAMP OVER JACKET. JOB INSPECTION MAY REQUIRE REMOVAL AND REPLACEMENT OF A RANDOM SAMPLING OF CONNECTIONS.
ARD		ROUND TAPS FOR FACTORY-MADE AIR DUCTS IN SECTIONS OF RECTANGULAR SHEET METAL DUCTS SHALL BE MADE WITH ANY OF THE FITTINGS LISTED BELOW:	4.	ELBOWS SHALL HAVE A THROAT RADIUS EQUAL TO 1-1/2 TIMES THE DUCT WIDTH. SQUARE ELBOWS SHALL HAVE TURNING VANES OR SPLITTER. TRANSITIONS SHALL NOT EXCEED 4 TO 1 ASPECT RATIO.
TRACT		 COLLAR (CONICAL). COLLAR (STRAIGHT, ONLY WHEN SHOWN ON DRAWINGS). 	C.	AUTOMATIC TEMPERATURE CONTROLS & AUTOMATIC SHUT-OFF
VINGS.		DOVETAILED CUTOFFS ARE NOT ACCEPTABLE. DUCT TAPE OR OTHER PRESSURE SENSITIVE TAPES ARE NOT ACCEPTABLE.	1.	ROOFTOP AC UNITS SHALL BE TURNED ON/OFF WITH PROGRAMMABLE 7-DAY THERMOSTATS. THERMOSTATS SHALL BE SET FOR CONTINUOUS FAN OPERATION.
R OR , THE		TAPS IN SECTIONS OF ROUND FACTORY-MADE FLEXIBLE AIR DUCTS (WHEN ALLOWED) SHALL BE MADE BY INSERTING, IN THE FLEXIBLE DUCT SECTION, ANY OF THE SHEET METAL FITTINGS LISTED BELOW:	2.	EXHAUST FANS ARE CONTROLLED AS SPECIFIED IN THE EXHAUST FAN SCHEDULE.
S THE TIVE AND/OR	9	 90 DEGREE CONICAL STRAIGHT TEE. 45 DEGREE STRAIGHT LATERAL. 45 DEGREE STRAIGHT LATERAL WITH 45 DEGREE ELBOW. 	3.	AIR CONDITIONING UNITS SHALL BE EQUIPPED WITH IONIZATION TYPE DUCT DETECTOR, UNLESS INDICATED OTHERWISE.
R WITH E	9	 45 DEGREE STRAIGHT LATERAL CROSS. 5. Y BRANCH WITH 45 DEGREE ELBOW. BELOW GRADE DUCTWORK SHALL BE FABRICATED FROM PVS, GALVANIZED 	4.	DUCT SMOKE DETECTOR SHALL BE LOCATED IN THE MAIN SUPPLY - AIR DUCT AHEAD OF ANY BRANCH TAKE-OFFS, AND INSTALLED PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
R THE TFOR T, MENT	1	G-60 STEEL WHICH HAS BEEN HOT DIPPED AND FIRE TREATED, AND A 4 MIL. POLYVINYL CHLORIDE COATING. INSTALL AND BACKFILL AROUND DUCTWORK ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. MAXIMUM LOAD PER PIPE SIZE ARE AS FOLLOWS: 0.1. 8" OR LESS - 400 (LBS./LINEAR FT.) 0.2. 10" TO 12" - 600 (LBS./LINEAR FT.) 0.3. 14" TO 36" - 1800 (LBS./LINEAR FT.)	5.	WHERE REQUIRED BY BUILDING OFFICIALS, ACTIVATION OF ANY SMOKE DETECTOR SHALL CAUSE THE AIR-MOVING EQUIPMENT TO AUTOMATICALLY SHUT DOWN. WHERE A SYSTEM CONSISTS OF MORE THAN ONE AIR CONDITIONER, ACTIVATION OF ANY OF THE SMOKE DETECTORS IN ANY OF THE AIR CONDITIONERS SERVING THE COMMON AREA SHALL CAUSE ALL AIR-MOVING EQUIPMENT SERVING THAT COMMON AREA TO SHUT DOWN.
ION	E.	DUCT INSULATION	6.	WIRING OF THE SMOKE DETECTORS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE DONE IN ACCORDANCE WITH THE
		THERMAL INSULATION: .1. CONCEALED SUPPLY DUCTS AND RETURN DUCTS ABOVE CEILING OR IN		REQUIREMENTS OF THE NEC AND ELECTRICAL SECTIONS OF THE SPECIFICATION.
NITH TH THE HT TIONAL VE	1	FURRED SPACES SHALL BE THERMALLY INSULATED. .2. THERMAL INSULATION SHALL BE FLEXIBLE BLANKET GLASS FIBER INSULATION WITH FACTORY APPLIED FLAME RETARDANT, FOIL-SCRIM-KRAFT VAPOR BARRIER (FSK), MAXIMUM K OF 0.30 AT 75 DEGREES F MEAN TEMPERATURE MINIMUM .75 POUND DENSITY.	7.	FIRE ALARM CONTRACTOR SHALL CONNECT ALL FIRE/SMOKE DAMPERS TO THE FIRE CONTROL SYSTEM, AS REQUIRED BY LOCAL BUILDING AUTHORITY. THE FIRE ALARM CONTRACTOR SHALL PROVIDE AND INSTALL THE CEILING MOUNTED SMOKE DETECTOR STATUS LIGHTS.
D A RIZE	1	INSULATION SHALL BE 2" THICK. .3. INSULATION SHALL BE APPLIED OVER SURFACES WHICH HAVE BEEN WIPED CLEAN AND DRY AND SHALL HAVE 3-INCH MINIMUM OVERLAP ON	D.	TESTING AND BALANCING
	1	BOTH LONGITUDINAL AND TRANSVERSE SEAMS. .4. SUPPLY AND RETURN DUCTS LOCATED OUTSIDE SHALL BE LINED WITH 2"	1.	THE TESTS SHALL INCLUDE THOSE COMPONENTS NORMALLY INCLUDED AS PART OF THE AIR DISTRIBUTION AND TRANSMISSION SYSTEM.
	F.	ACOUSTICAL LINER AND SEALED WATER TIGHT, OR INSULATED EXTERNALLY WITH 2" RIGID BOARD AND ALUMINUM LAGGING SEALED WATER TIGHT. <u>AIR FILTERS</u>	2.	A COMPLETE BALANCING REPORT SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION. THE BALANCING REPORT SHALL INCLUDE DESIGN QUANTITIES AND ACTUAL (MEASURED) QUANTITIES FOLLOWING BALANCING. BALANCING SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.
NG, ESIST		REPLACEABLE (THROWAWAY) PANEL FILTERS: .1. PROVIDE FACTORY-FABRICATED, VISCOUS-COATED, FLAT PANEL TYPE REPLACEABLE AIR FILTERS WITH HOLDING FRAMES AS INDICATED, IN		T.A.B. CONTRACTOR SHALL BE A.A.B.C. OR N.E.E.B. CERTIFIED, OR COMPANY APPROVED BY ENGINEER.
RAL		SIZES I INDICATED, WITH 2" THICK UL CLASS 2 THROWAWAY MEDIA MATERIAL, CONSTRUCT MEDIA OF INTERLACED GLASS FIBERS, SPRAY WITH NON-FLAMMABLE ADHESIVE, FRAME IN THROWAWAY FIBERBOARD	3.	INCLUDE IN BID, AS PART OF THE WORK IN THIS CONTRACT, ANY ADJUSTMENTS TO OR REPLACEMENT OF PULLEYS, BELTS, MOTORS, DAMPERS, ETC., REQUIRED FOR CORRECT BALANCING OF SYSTEMS. CONTRACTOR OR EQUIPMENT SUPPLIER TO FURNISH THE ABOVE LISTED
RAINT	1	 CASINGS, AND SANDWICH BETWEEN PERFORATED METAL GRILLES. .2. CONSTRUCT DUCTWORK-HOLDING FRAMES OF 20-GA. GALVANIZED STEEL, CAPABLE OF HOLDING MEDIA AND MEDIA FRAME IN PLACE, AND GASKETED TO PREVENT UNFILTERED AIR BY-PASSING BETWEEN MEDIA 	4.	ITEMS TO T.A.B. CONTRACTOR TO INSTALL. TEST AND ADJUST AIR DEVICES TO WITHIN PLUS OR MINUS 5 PERCENT OF
BLE VHERE JT	1	FRAMES AND HOLDING MEMBERS. .3. PROVIDE FILTERS WITH RATED FACE VELOCITY OF 500 FPM, INITIAL		DESIGN REQUIREMENTS.
R TO EVEN	G.	RESISTANCE OF OT GREATER THAN 0.30" W.G., FINAL RATED RESISTANCE OF 0.50" W.G., AND AVERAGE ARRESTANCE OF 80%. LIST OF ACCEPTABLE MANUFACTURERS	5.	T.A.B. CONTRACTOR SHALL ADJUST THE DEFLECTION OF ALL APPLICABLE SUPPLY AIR DISTRIBUTION FOR PROPER AIR FLOW DIRECTION AND CHARACTERISTICS AS RECOMMENDED BY THE MANUFACTURER AND/OR TO THE SATISFACTION OF THE ENGINEER AND OWNER.
ALLED.	1.	FOLLOWING IS A LIST OF MANUFACTURES WHOSE EQUIPMENT IS		
TS, PMENT ED S FOR		ACCEPTABLE AS TO MANUFACTURE, SUBJECT TO CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. CAREFUL CHECKING MUST BE MADE TO VERIFY THAT EQUIPMENT WILL MEET CAPACITIES, REQUIREMENTS, SPACE AND WEIGHT ALLOCATIONS.		
WISE.		.1. AIR DEVICES: TITUS, KREUGER, METAL-AIRE, PRICE .2. INSULATION: CERTAINTEED, OWENS-CORNING, MANVILLE, KNAUF		
	1	 .2. INSULATION. CERTAINTEED, OWENS-CORNING, MANVILLE, KNAUF .3. DUCT SEALANT: DESIGN POLYMERICS, MCGILL AIRFLOW, CANVAS TAPE AND ARABOL .4. AIR FILTERS: AFF, FARR OR FLANDERS. 		
THE RNATE		APPROVAL FOR SUBSTITUTIONS MUST BE MADE IN ACCORDANCE WITH PART		
JRERS.	۷.	1, SECTION G "SUBSTITUTIONS" OF THESE SPECIFICATIONS.		





OUTSIDE AIR SCHEDULE - 2012 UMC

ROOM NAME	AREA (FT2)	OCCUPANCY (PEOPLE, CALCULATED)	CFM/PERSON (PER CODE)	CFM/FT2 (PER CODE)	OSA REQUIRED (CFM, CALCULATED)	OSA PROVIDED (CFM)	UNIT TAGS
207-I HALLWAY	57	0	0	0.06	4	5	FTU-18
207-J NEW OFFICE	132	1	5	0.06	16	20	FTU-18
207-K NEW OFFICE	116	1	5	0.06	15	15	FTU-18
207-L NEW OFFICE	164	2	5	0.06	25	25	FTU-18
тот	469				60	65	FTU-18



MECHANICAL PLAN - NEW 2 SCALE: 1/4" = 1'-0"

AIR DEVICE SCHEDULE

MARK	MANUFACTURER	MODEL	TYPE	PANEL SIZE	NOTES
SA-1	PRICE	520	SUPPLY REGISTER	12x8	DOUBLE DEFLECTION, 3/4" BLADE SPACING, 45° SPACING. PAINT INSIDE OF CAN FLAT BLACK, FOR SIDE WALL MOUNTING.
SA-2	PRICE	SCDA	CEILING SUPPLY DIFFUSER	24x24	ADJUSTABLE CONES. PAINT INSIDE OF CAN FLAT BLACK, FOR LAY-IN MOUNTING. PROVIDE OPPOSED BLADE DAMPER.
SA-3	PRICE	SCDA	SUPPLY DIFFUSER	12x12	ADJUSTABLE CONES. PAINT INSIDE OF CAN FLAT BLACK, FOR OPEN DUCT MOUNTING. PROVIDE OPPOSED BLADE DAMPER.
RA-1	PRICE	530	RETURN AIR GRILLE	16x10	LOUVERED FACE RETURN, PAINT INSIDE OF CAN FLAT BLACK, FOR SIDE WALL MOUNTING.
RA-2	PRICE	80	RETURN AIR GRILLE	24x24	1/2" GRID, PAINT INSIDE OF CAN FLAT BLACK, FOR LAY-IN MOUNTING. PROVIDE OPPOSED BLADE DAMPER.
AIR D	EVICE TAG				
				10"Ø REC NEC (INC	FUSER OR GISTER CK SIZE CHES)
			AIRFLOW (CFM)	– NUI TYF	MBER OF PICAL UNITS PRESENT)

2. FRAME STYLES TO MATCH CEILING TYPE, SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES, COLORS AND EXACT LOCATIONS.

MECHANICAL PLAN - DEMOLITION

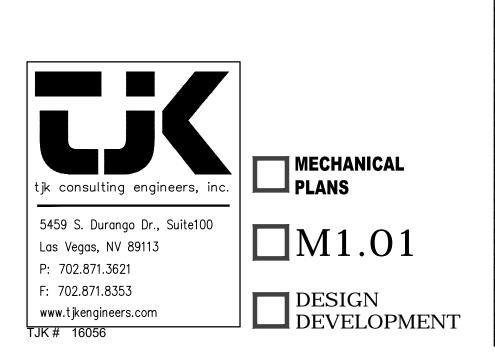
SCALE: 1/4" = 1'-0"

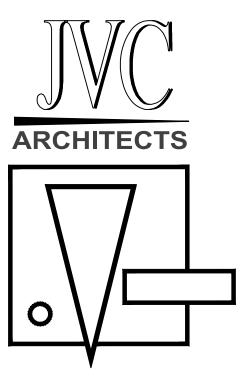
GENERAL NOTES:

- 1. POSITION ALL UNITS & FANS TO PROVIDE ADEQUATE CLEARANCE FOR MAINTENANCE PER CODE.
- 2. COORDINATE ALL MECHANICAL WORK FOR POTENTIAL CONFLICTS WITH OTHER TRADES.
- 3. MAIN DUCT PENETRATIONS SHALL BE FULL SIZE RIGID SHEET METAL DOWN BELOW ROOF WITH ADEQUATE LENGTH TO ATTACH DUCT RUNS AND SMOKE DETECTOR.
- 4. ALL EXPOSED DUCTWORK SHALL BE RIGID SHEET METAL. ALL OTHER SUPPLY AND RETURN DUCTWORK MAY BE FLEXIBLE DUCTWORK. ALL EXHAUST DUCK SHALL BE RIGID SHEET METAL.

KEY NOTES: (#)

- 1. EXISTING RETURN GRILLE TO BE RELOCATED. SEE MECHANICAL PLAN - NEW FOR NEW LOCATION OF GRILLE.
- 2. EXISTING DIFFUSER TO REMAIN. 3. EXISTING GRILLE TO REMAIN.
- 4. EXISTING SUPPLY GRILLE TO BE RELOCATED. SEE MECHANICAL PLAN WWW.JVCARCHITECTS.NET - NEW FOR NEW LOCATION OF GRILLE. DEMOLISH DUCT BACK TO POINT OF DISCONNECT. PREPARE DUCT TO BE EXTENDED TO NEW
- LOCATION. 5. RELOCATE THERMOSTAT FOR FTU-18 TO NEW LOCATION AS SHOWN.
- 6. POINT OF CONNECTION OF NEW DUCT TO EXISTING DUCTWORK.
- 7. RELOCATE THERMOSTAT FOR FTU-13 TO NEW LOCATION AS SHOWN.
- 8. NEW LOCATION OF RETURN GRILLE, REFER TO KEYNOTE 1.
- 9. NEW LOCATION OF SUPPLY GRILLE, REFER TO KEYNOTE 4. 10. REBALANCE AIRFLOW AT EXISTING SUPPLY GRILLE FROM 900 CFM TO
- 400 CFM. 11. INCREASE AIRFLOW FROM FTU-18 TO BE 1000 CFM.





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- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOOK THROUGH ALL DRAWINGS ASSOCIATED WITH THIS PROJECT. WORK ASSOCIATED WITH THE ELECTRICAL CONTRACTOR'S TRADE MAY BE SHOWN ON OTHER DRAWINGS. ANY ADDITIONAL COST RESULTING FROM THE FAILURE TO INCLUDE THESE ITEMS SHOWN ON THE OTHER DRAWINGS WILL BE INCURRED BY CONTRACTOR.
- 2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE ENGINEER RESERVES THE RIGHT TO ALLOW OTHER METHODS AND MATERIALS NOT REFLECTED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO REQUEST THE ENGINEER WAIVE THE STANDARDS TO ALLOW ALTERNATE MEANS AND METHODS PRIOR TO BEGINNING THE PROJECT. CONTRACT DOCUMENT REVISIONS TO ACCOMMODATE INSTALLED CONDITIONS, WITHOUT PRIOR APPROVAL, WILL RESULT IN ADDITIONAL DESIGN CHARGES TO THE CONTRACTOR.
- 3. ELECTRICAL WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH THE NECA INSTALLATION STANDARDS TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- 4. ALL WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF ALL APPLICABLE NATIONAL, STATE AND CITY CODES AND ORDINANCES.
- 5. ALL ELECTRICAL SYSTEM COMPONENTS SHALL BE LISTED OR LABELED BY UL OR OTHER RECOGNIZED TESTING FACILITY AS ALLOWED BY AUTHORITY HAVING JURISDICTION.
- 6. WHERE AN APPARENT DISCREPANCY EXISTS BETWEEN THE REQUIREMENTS OF THE GENERAL NOTES AND INFORMATION PORTRAYED IN THE ELECTRICAL DRAWINGS, THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF THE GREATER QUALITY OR QUANTITY.
- 7. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BID AND VERIFY EXISTING CONDITIONS.
- 8. CONTRACTOR SHALL INCLUDE IN BASE BID ALL COSTS REQUIRED FOR PERMITS AND INSPECTIONS. 9. CONTRACTOR SHALL VERIFY, WITH OWNER'S REPRESENTATIVE PRIOR TO SUBMITTING BID, ALLOWABLE WORKING HOURS, EMPLOYEE PARKING AREAS, MATERIAL DELIVERY, STORAGE REQUIREMENTS, DEMOLITION AND REMOVAL OF CONSTRUCTION DEBRIS, AS WELL AS DAILY CLEAN UP REQUIREMENTS. INCLUDE ALL COSTS IN BID FOR DUST BARRIERS, DUMPSTERS ETC, AS REQUIRED FOR THE DURATION OF THE PROJECT. PERFORM ALL WORK AS DIRECTED BY OWNER'S REPRESENTATIVE AND ARCHITECT.
- 10. ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS AT NO ADDITIONAL COST TO OWNER.
- 11. CONTRACTOR SHALL GUARANTEE ALL WORK AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. ALL DEFECTS SHALL BE PROMPTLY CORRECTED BY CONTRACTOR WITHOUT ADDITIONAL COST TO OWNER.
- 12. PROVIDE AS-BUILT DRAWINGS TO ARCHITECT. DRAWINGS SHALL INCLUDE ACCURATE CONDUIT AND DEVICE LOCATIONS DIMENSIONED FROM PERMANENT LANDMARKS SUCH AS BUILDING WALLS.
- 13. DO NOT SCALE ELECTRICAL DRAWINGS. VERIFY EXACT LOCATION OF ALL DEVICES, JUNCTION BOXES, LIGHTING FIXTURES, ETC. WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT AND OTHER EQUIPMENT REQUIRING ELECTRICAL CONNECTION PRIOR TO ROUGH-IN. EVERY OUTLET HEIGHT SHALL BE VERIFIED ON EACH WALL WITH THE INTERIOR PLANNING AND DESIGN DRAWINGS. COORDINATE WITH CABINET SHOP DRAWINGS TO ENSURE PROPER HEIGHT AND LOCATION WITH RESPECT TO MILLWORK, EQUIPMENT, ETC.
- 14. THESE DRAWINGS INDICATE THE FINISHED REQUIREMENTS FOR THE ELECTRICAL SYSTEMS, EQUIPMENT, LIGHTING FIXTURES, OUTLETS AND DEVICES. DUE TO STRUCTURAL CONDITIONS, MECHANICAL DUCT, PIPING CONFLICTS, OR OTHER LEGITIMATE REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK INDICATED IN A MANNER DIFFERENT FROM THAT SHOWN. SUCH CHANGES SHALL BE PRESENTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING. UPON APPROVAL, THE WORK SHALL BE PERFORMED AND THE AS-BUILT DRAWINGS SHALL BE REVISED TO ACCURATELY REFLECT THE WORK AS ACTUALLY INSTALLED.
- 15. ANY VARIANCE OR EXCEPTIONS THE THE DRAWINGS AND SPECIFICATIONS MUST BE REQUESTED AND APPROVED IN WRITING BY THE ENGINEER. WHERE UNAUTHORIZED CHANGES ARE FOUND, THE CONTRACTOR SHALL REMOVE THE INSTALLED WORK AND INSTALL ITS AS SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST THE THE OWNER. COST SHALL INCLUDE ANY CUTTING, PATCHING, PAINTING AND REPAIR COST TO INSTALLED CEILINGS, WALLS ETC. AS REQUIRED FOR CORRECTING THE DEFICIENCY.
- 16. RACEWAY SYSTEMS ARE SHOWN DIAGRAMMATICALLY. ACTUAL LOCATION AND ROUTING OF ALL, SHALL BE DETERMINED BY CONTRACTOR TO SUIT FIELD CONDITIONS.
- 17. RACEWAYS SHALL BE INSTALLED CONCEALED WHENEVER POSSIBLE. RACEWAYS INSTALLED EXPOSED (AS APPROVED BY ENGINEER IN WRITING PRIOR TO ROUGH-IN) SHALL BE ROUTED OUT OF PUBLIC VIEW AS MUCH AS POSSIBLE. RACEWAYS SHALL BE RUN PARALLEL WITH, OR AT RIGHT ANGLE TO WALLS.
- PROVIDE UL APPROVED EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS. PROVIDE BONDING JUMPER(S) SIZED PER CODE WHERE REQUIRED. PROVIDE ALL FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXPANSION JOINT LOCATION(S).
- 19. CONTRACTOR SHALL PROVIDE ALL RACEWAY SYSTEMS INDICATED ON THE DRAWING PER NEC REQUIREMENTS AND GENERAL NOTES. ANY DEVIATION FROM THE WIRING METHODS INDICATED SHALL BE ALLOWED ONLY BY SPECIFIC WRITTEN APPROVAL FROM EITHER THE ARCHITECT, ENGINEER OR OWNER. CONTRACTOR'S BID SHALL INCLUDE ALL COSTS FOR RACEWAY SYSTEMS AS SPECIFIED UNLESS SPECIFIC WRITTEN APPROVAL FOR AN ALTERNATIVE WIRING METHOD IS OBTAINED FROM EITHER THE ARCHITECT, ENGINEER OR OWNER AND IS SUBMITTED AS PART OF CONTRACTOR'S FORMAL BID PROPOSAL.
- 20. PRIOR TO INSTALLATION, CONTRACTOR SHALL REVIEW THE COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR CONFLICTS WITH OTHER TRADES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL WORK WITH OTHER TRADES TO AVOID CONFLICT DURING INSTALLATION. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS IN EQUIPMENT LOCATION AND ROUTING AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
- 21. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH AS THE EXISTING WORK AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK TO THE SATISFACTION OF THE ARCHITECT.
- 22. ALL ELECTRICAL EQUIPMENT SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE QUANTITY AND SIZE OF CONDUCTORS REQUIRED. CONTRACTORS SHALL PROVIDE EQUIPMENT WITH OVERSIZED ENCLOSURES WHERE REQUIRED.
- 23. COORDINATE ELECTRICAL REQUIREMENTS FOR ALL PLUMBING AND MECHANICAL EQUIPMENT WITH FINAL CONTRACTOR SELECTION. THE CONTRACTOR SHALL SIZE DISCONNECTS BASED UPON CIRCUIT BREAKER RATINGS AND PROVIDE FUSING AS REQUIRED PER EQUIPMENT MANUFACTURER RECOMMENDATIONS AND U.L. LISTING REQUIREMENT
- 24. SIZING OF MOTOR-RELATED ELECTRICAL COMPONENTS, INCLUDING FEEDER AND/ OR BRANCH CIRCUITS (WIRE AND CONDUIT) AND OVERCURRENT PROTECTION (BREAKER AND/ OR FUSES) IS BASED ON RATINGS INDICATED IN THE CONTRACT DOCUMENTS AS WELL AS NEC APPROXIMATED LOADS FOR A GIVEN MOTOR HORSEPOWER, VOLTAGE AND PHASE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ACTUAL MOTOR AND APPLIANCE RATING AND LOADS. CONTRACTOR TO PROVIDE CORRECTLY SIZED MOTOR OVERLOAD ELECTRICAL COMPONENTS BASED ON NAMEPLATE RATING. REFLECT ALL CHANGES IN THE AS-BUILT DRAWINGS.
- 25. THE ELECTRICAL CONTRACTOR PRIOR TO ROUGH-IN, SHALL VERIFY ALL HVAC AMPERAGES, PHASES AND VOLTAGES AGAINST PLAN REQUIREMENTS AND NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES. FAILURE TO VERIFY AND NOTIFY ENGINNER/ARCHITECT PRIOR TO ROUGH-IN SHALL RESULT IN THE ELECTRICAL CONTRACTOR ASSUMING RESPONSIBILITY FOR DESIGN AND INSTALLATION REQUIREMENTS.
- 26. THE ELECTRICAL CONTRACTOR SHALL INSURE FINAL COORDINATION OF THE MANUFACTURERS RECOMMENDED FUSE SIZES FOR THE INSTALLED MECHANICAL EQUIPMENT WITH THE SIZE DISCONNECT PRIOR TO OR DURING ROUGH-IN. ADVISE ENGINEER IF CHANGES IN THE FINAL SELECTION OF MECHANICAL EQUIPMENT HAVE IMPACTED DISCONNECT SWITCH, BREAKER, OR CONDUCTOR SIZES.
- 27. CONTRACTOR SHALL ENGAGE THE SERVICES FOR A STATE LICENSED FIRE ALARM MANUFACTURER/INSTALLER TO PREPARE ALL DESIGN DRAWINGS AND CALCULATIONS REQUIRED FOR SYSTEM APPROVAL BY THE AUTHORITY HAVING JURISDICTION. SUBMIT ALL PLANS AND PROVIDE ALL PERMITS REQUIRED FOR A COMPLETE AND OPERABLE APPROVED LIFE SAFETY SYSTEM.
- 28. ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DIAGRAMS THAT CONFORM TO UL LISTING FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS".
- 29. WHERE MOTORS ARE INSTALLED IN SUSPENDED CEILINGS, CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH IN SUSPENDED CEILING WITHIN REACH FROM ACCESS POINT.
- 30. VERIFY DEVICE COLOR AND MOUNTING ORIENTATION (VERTICAL OR HORIZONTAL) WITH ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT AND PROVIDE DEVICES AS REQUIRED. UNLESS NOTED OTHERWISE, DEVICES AND DEVICE PLATES SHALL BE WHITE IN COLOR.

- DIRECTORY SHALL REFLECT ALL ADDITIONS OR MODIFICATIONS TO EXISTING PANELS AND SHALL REFLECT ACTUAL "AS-BUILT" CONDITIONS.
- DOORS AND BE KEYED THE SAME U.N.O.
- TEST OF THE ENTIRE LIFE SAFETY SHALL BE PERFORMED TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
- TORQUE TEST.
- 35. FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE PAD.
- AND SPECIFICATIONS.
- SHUT-DOWNS OR TIE-INS RELATING TO THESE SYSTEMS. REQUESTS FOR SHUTDOWNS SHALL BE SUBMITTED IN WRITING AT LEAST ONE WEEK IN ADVANCE FOR APPROVAL BY THE OWNER. 39. ALL EXPOSED RACEWAYS SHALL BE PAINTED TO MATCH ADJACENT SURFACES.
- 41. PROPOSED ALTERNATE LIGHT FIXTURES SHALL BE SUBMITTED WITH A PHOTOMETRIC STUDY SHOWING COMPLIANCE WITH ALL APPLICABLE LIGHTING CODES AND ORDINANCES.
- FROM EQUIPMENTS. REMOVE ALL DEBRIS ACCUMULATED DURING CONSTRUCTION.
- 43. ALL 120V AND 277V DEVICES SHALL HAVE A DEDICATED NEUTRAL

31. PROVIDE TYPED UPDATED PANEL DIRECTORY TO BE MOUNTED ON INSIDE OF ALL PANEL DOOR COVERS.

32. ALL NEW PANELBOARDS AND SWITCHBOARDS SHALL BE OF THE SAME MANUFACTURER AND HAVE LOCKING

33. UPON COMPLETION OF THE INSTALLATION OF LIFE SAFETY SYSTEM WIRING AND DEVICES, A PERFORMANCE

34. ALL EQUIPMENT ELECTRICAL TERMINATIONS TO UNDERGO A TORQUE TEST. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MANUFACTURER'S RECOMMENDED TORQUE DOCUMENTATION AND TOOLS TO PERFORM

36. INSTALL TRANSFORMER FOLLOWING MANUFACTURER'S RECOMMENDATIONS FOR VENTILATION CLEARANCES. 37. FURNISH AND INSTALL A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH PLANS

38. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER, ARCHITECT AND ENGINEER AS REQUIRED

40. THE ELECTRICAL CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY "VALUE ENGINEERING" OF THE MATERIALS, SPECIFICATIONS AND DESIGN OF THIS PROJECT, INCLUDING ANY AND ALL COST FOR ANY REVISIONS TO THE CONTRACT DOCUMENTS REQUIRED AS A RESULT IF THE "VALUE ENGINEERING".

42. AFTER COMPLETION OF THE INSTALLATION, THE ENTIRE ELECTRICAL SYSTEM SHALL BE THOROUGHLY CLEANED. REMOVE ALL FOREIGN MATERIAL, DUST, PAINT, OIL GREASE, UNNEEDED LABELS AND STICKERS

SHEET INDEX

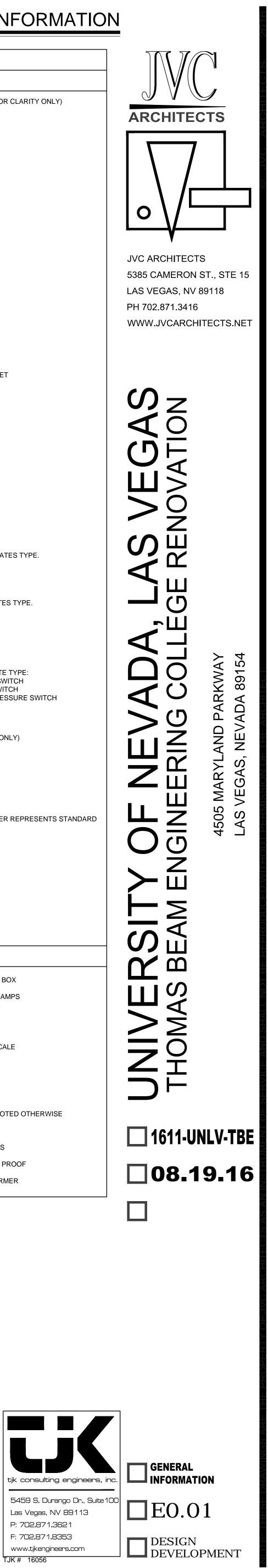
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Image: Pay TelePhone Outlet 48' AFF UNO AFF ABOVE FINISHED FLOOR JBOX JUNCTION BOX Image: PLOOR MOUNTED TELEPHONE OUTLET AFG ABOVE FINISHED GRADE KVA KILOVOLT AMPS Image: COMPUTER OUTLET OR SPECIAL PURPOSE COMMUNICATIONS AL ALUMINUM KW KILOVALT Image: Radio outlet Radio outlet C CONDUIT KW KILOVALT Image: Radio outlet Photoelectric Cell C CONDUIT NTS NOT TO SCALE Image: Radio concerne Time CLOCK C CONDUIT ONLY PNL PANEL Image: Radio concerne BRANCH CIRCUIT CONSISTING OF 2#12 IN MINIMUM SIZE CONDUIT CU COPPER TYP TYPICAL Image: Radio concerne DWG DRAWING DWG DRAWING UNO UNLESS NOTED OTHERW Image: Radio concerne DWG DRAWING UNO UNLESS NOTED OTHERW Image: Radio concerne DWG DRAWING UNO UNLESS NOTED OTHERW Image: Radio concerne DWG DRAWING UNO UNLESS NOTED OTHERW Image: Radio concerne DWG DRAWING UNO UNLESS NOTED OTHERW <td>●</td> <td>CONTROL STATION</td> <td>AB</td> <td>BREVIAT</td> <td>IONS:</td> <td></td> <td></td> <td></td>	●	CONTROL STATION	AB	BREVIAT	IONS:			
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		CONDUIT IN SLAB OR UNDERGROUND	GN	D GROUNI	C		XFMR	TRANSFORMER



ELECTRICAL SPECIFICATIONS SECTION 16000

PROJECT NUMBER TJK#16056

PART 1 - GENERAL REQUIREMENTS:

- 1.1 DESCRIPTION A SCOPE: THE ELECTRICAL WORK CONSISTS OF FURNISHING EVERYTHING NECESSARY FOR AND INCIDENTAL TO THE EXECUTION
 - AND COMPLETION OF ALL ELECTRICAL WORK INDICATED ON THE DRAWINGS AND SPECIFIED BELOW INCLUDING BUT NOT LIMITED
 - 1. LIGHTING FIXTURES AS INDICATED AND SPECIFIED ON THE PLANS.
 - 2. ELECTRICAL PANELS, CONTROLS SERVICE, DISCONNECTS, CONDUITS, WIRING, ETC. FOR ALL OUTLETS AND EQUIPMENT. 3. TELEPHONE OUTLETS AND CONDUIT AS INDICATED.
 - 4. CONDUIT AND OUTLETS FOR ALARM, COMPUTER, CCTV, AND SECURITY SYSTEM AS INDICATED. 5. CONTROL WIRING FOR ELECTRICAL AND HVAC SYSTEMS.
 - 6. TELEPHONE CONDUIT SYSTEM TO POINT OF CONNECTION WITH TELEPHONE COMPANY.
- B THE DRAWINGS ARE DIAGRAMMATIC UNLESS INDICATED OTHERWISE. THE DRAWINGS REFLECT CIRCUITING ONLY AND ARE NOT DEPICTING EXACT CONDUIT ROUTING UNLESS SPECIFICALLY NOTED OTHER WISE. 1. DATA PRESENTED ON THESE DRAWINGS ARE AS ACCURATE AS PLANNING CAN DETERMINE, BUT FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL CIVIL, ARCHITECTURAL, STRUCTURAL AND MECHANICAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF CONDITIONS SHOWN. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING BEFORE THE DATE OF BID OPENING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, ETC. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING
- DIMENSIONS. 2. IN ALL CASES SWITCHES CONTROLLING LIGHTING ARE TO BE LOCATED ON THE STRIKE SIDE OF DOORS. LOCATION
- INDICATED FOR SWITCHES AND OUTLETS ARE APPROXIMATE. OWNER MAY MAKE MINOR RELOCATIONS AT NO ADDITIONAL CHARGE. C EXAMINE ALL DRAWINGS FOR WORK REQUIRED BY THIS SUBCONTRACTOR.
- 1.2 CODES A ALL WORK SHALL BE IN ACCORDANCE WITH THE NEC AND LOCAL GOVERNING CODES.
 - 1. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE SERVING POWER AND TELEPHONE COMPANIES. 2. ALL OFF SITE WORK SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARD DRAWINGS FOR CLARK COUNTY AREA. 3. ALL FIRE ALARM WORK SHALL BE IN ACCORDANCE WITH STATE FIRE MARSHALL, NFPA AND NFC.
- B ALL DATA/TELECOMMUNICATIONS WORK SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF THE TIA/EIA BUILDING TELECOMMUNICATIONS WIRING STANDARDS.

1.3 SUBSTITUTIONS

- A CONTRACTOR'S BID PRICE SHALL REFLECT THE COSTS OF ALL MATERIALS AS SPECIFIED. NO PRIOR APPROVAL OF MATERIALS WILL BE GIVEN PRIOR TO AWARD OF BID. ALL SWITCHGEAR AND PANELBOARDS SHALL BE FURNISHED BY A SINGLE MANUFACTURER.
- B SUBSTITUTIONS OF EQUAL QUALITY, COST AND OF BENEFIT TO THE OWNER WILL BE EVALUATED AT THE CONTRACTOR'S REQUEST. ANY ADDITIONAL COST TO THE OWNER FOR REVIEW OF SUBSTITUTIONS WILL BE AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO PROVIDE ALL NECESSARY PHOTOMETRIC POINT BY POINT LAYOUT FOR ALL SUBSTITUED FIXTURES. C AFTER REVIEW OF SUBSTITUTES, THE DECISION OF THE ENGINEER IN DETERMINING EQUAL MATERIALS WILL BE FINAL.
- 1.4 SUBMITTALS
- A PROVIDE SUBMITTALS FOR THE FOLLOWING EQUIPMENT
- 1. WIRING DEVICES AND DIMMERS
- 2. LIGHTING FIXTURES
- B SHOP DRAWINGS AND APPROVALS
- 1. THE CONTRACTOR SHALL SUBMIT SIX (6) IDENTICALLY BOUND SETS OF SHOP DRAWINGS ON THE FOLLOWING ITEMS: a. OUTLINE DRAWINGS AND DATA SHEETS OF EACH CIRCUIT BREAKER, DISCONNECT, TRANSFER SWITCH, GENERATOR,
- TRANSFORMER, PANEL BOARD, AND SWITCHBOARD. 1) HIGHLIGHT SERVICE CONDITIONS OF EQUIPMENT AND THE APPROPRIATE DERATING TO MEET 2.1.B. b. DATA SHEETS OF ALL WIRING DEVICES, LIGHTING FIXTURES, AND FUSES.

- 1.5 QUALITY ASSURANCE A ALL WORK SHALL BE COMPLETED IN A NEAT AND WORKMANLIKE MANNER AND IN ACCORDANCE WITH NECA STANDARDS. B ALL WORK SHALL BE SUBJECT TO INSPECTION AND POSSIBLE REJECTION IF NOT IN ACCORDANCE WITH THESE SPECIFICATIONS, THE DRAWINGS, AND INSTALLED IN NEAT AND WORKMANLIKE MANNER. C ANY REJECTED WORK SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- PART 2 PRODUCTS:
- 2.1 MATERIAL AND EQUIPMENT

- A MATERIAL AND EQUIPMENT SHALL BE NEW AND OF CURRENT PRODUCTION BY MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF SUCH ITEMS. ELECTRICAL SWITCHGEAR AND COMPONENTS SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. ALL MATERIAL SHALL BE UL LISTED.
- B SERVICE CONDITIONS
 - 2. ALTITUDE- 2100 FEET
 - 3. TEMPERATURE
 - a. INDOOR 40 DEGREE C (100 DEGREE F) b. OUTDOOR - 60 DEGREE C (140 DEGREE F)
- C CONDUITS
- 1. INTERIOR CONDUIT SHALL BE EMT WITH COMPRESSION OR SET SCREW FITTINGS. 2. EXTERIOR CONDUIT EXPOSED TO DAMAGE SHALL BE TYPE RGS.
- 3. EXTERIOR BURIED CONDUIT SHALL BE SCHEDULE 40 PVC WITH PVC COATED RGS BENDS WHEN PENETRATING THROUGH
- FLOOR SLABS.
- 4. FMC SHALL BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES NOT TO EXCEED 72 INCHES. a. FNC OR ALUMINUM FMC SHALL NOT BE USED.
- b. FMC SHALL NOT BE USED EXCEPT AS NOTED ABOVE WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 5. LIQUID-TITE FMC SHALL BE USED FOR FINAL CONNECTION TO MOTORS.
- 6. MC CABLE MAY NOT BE USED.
- 7. CONDUIT FITTINGS SHALL BE STEEL OR MALLEABLE IRON TYPE
- D CABLE
- 1. CONDUCTORS SHALL BE TYPE THHN/THWN 75 DEGREE WIRE.
- 2. CONDUCTORS SHALL BE COPPER.
- a. EQUIVALENT ALUMINUM WIRE (8000 ALLOY) MAY BE USED IN LIEU OF COPPER FOR SIZES #1/0 AND LARGER. USE COMPRESSION FITTINGS ON ALL CONNECTIONS AND RESIZE CONDUIT AS REQUIRED. SUBMIT SIZING AND VOLTAGE DROP CALCULATIONS TO ENGINEER FOR REVIEW.
- 3. MINIMUM WIRE SIZE SHALL BE #12 AWG. a. 120V BRANCH CIRCUITS OVER 65 FEET IN LENGTH FROM THE CENTER OF THE LOAD TO THE PANEL SHALL BE #10 AWG
- AND BRANCH CIRCUITS OVER 130 FEET SHALL BE #8 AWG. INCREASE CONDUIT AND WIRE SIZES AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- 4. UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE (120V) OR GRAY (277V) AND PHASE WIRES SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR A 120/208 VOLT SYSTEM AND BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C) FOR A 277/480 VOLT SYSTEM. E WIRING DEVICES
- 1. WIRING DEVICES SHALL BE AS FOLLOWS:
- NYLON, IVORY, 2 POLE, 3 WIRE GROUNDING.
- 1) PROVIDE GRAY COLOR FOR COMPUTER OUTLETS. b. SWITCHES - 120V/277V, 20A, WHITE, HEAVY DUTY, SILENT TYPE SPECIFICATIONS GRADE.
- c. DIMMERS LUTRON NOVA T 2000W OR EQUIVELANT.
- d. ISOLATED GROUND RECEPTACLES SHALL BE EQUAL TO PASS & SEYMOUR, CAT. # IG9300-HG, COLOR ORANGE.
- 2. DEVICE PLATES SHALL BE NYLON, COLOR SHALL MATCH DEVICE WITH MATCHING SCREWS.
- a. RECEPTACLES IN WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED SUITABLE FOR WET LOCATIONS WHILE IN USE AND UL LISTED EQUAL TO: 1) TAY MAC - ML400G AND SINGLE GANG 5881-0.
- 2) INTERMATIC WP1000RC.
- 3) PASS & SEYMOUR WIUFC10S.
- a. FURNISH AND INSTALL TIME SWITCHES, PHOTOCELLS AND CONTACTORS REQUIRED FOR LIGHTING CONTROL AS
- INDICATED ON THE DRAWINGS.
- b. TIME SWITCHES SHALL BE INTERMATIC ET 7000 SERIES OR EQUAL BY PARAGON, GENERAL ELECTRIC, OR TORK, AND SHALL HAVE SIZE AND NUMBER OF POLES AS REQUIRED. c. CONTACTORS SHALL BE ELECTRICALLY OPERATED AND HELD IN NEMA TYPE I ENCLOSURES HAVING AMPERAGE
- F PANELBOARDS
 - 1. SHALL BE GE "A" SERIES WITH BOLT ON BREAKERS.
- 3. GUTTER SPACE SHALL MEET APPLICABLE NEC REQUIREMENTS.
- 6. BUS BARS SHALL BE ALUMINUM.
- 7. DO NOT USE LOAD CENTERS.

- - 3. LIGHTING CONTROL

 - CAPACITY AND NUMBER POLES AND VOLTAGE CLASS INDICATED.
 - a. APPROVED SUBSTITUTE MANUFACTURERS ARE SQUARE D, EATON AND ITE.

 - 5. WIRE TERMINATION FOR PANELBOARDS AND CIRCUIT BREAKERS SHALL BE LISTED AS SUITABLE FOR 75 DEGREE C.
- - 2. SHALL BE DEAD FRONT TYPE ONLY.
 - 4. SHALL BE FULLY BUSSED WHERE SPACE IS NOTED.

ELECTRICAL SPECIFICATIONS

G SAFETY SWITCHES SHALL BE GENERAL DUTY TYPE, NEMA 1 INDOOR AND NEMA 3R OUTDOOR.

- H OVERCURRENT PROTECTION DEVICES: 1. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURES AS PANELBOARDS AND SWITCHBOARDS. PROVIDE BREAKERS AS NOTED ON THE SCHEDULE.
- 2. FUSES USED TO PROTECT MOTORS SHALL BE BUSSMAN TYPE FRN-R. ALL FUSES INSTALLED IN FUSED DISCONNECTS SHALL BE CLASS R UNLESS NOTED OTHERWISE.
- 3. PROVIDE HACR RATED BREAKERS FOR MECHANICAL EQUIPMENT.
- PROVIDE GROUNDING FOR ALL BRANCH CIRCUITS. CONDUIT, LISTED FOR USE, MAY BE USED FOR GROUNDING FOR 20A BRANCH CIRCUITS ONLY WHEN APPROVED FOR SUCH USE. ALL FMC AND NON-METALLIC CONDUIT SHALL HAVE A SEPARATE GROUND WIRE.
- J LIGHTING FIXTURES AND ACCESSORIES:
- 1. LIGHTING FIXTURES SHALL BE AS SHOWN ON THE LIGHTING FIXTURE SCHEDULE. a. VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS.
- b. PROVIDE PLASTER FRAMES AND HANGERS AS REQUIRED.
- 2. PROVIDE LAMPS FOR ALL FIXTURES.
- a. LAMPS SHALL BE GUARANTEED AS FOLLOWS: 1) LED - 12 MONTHS FROM BENEFICIAL OCCUPANCY.
- 3. ELECTRONIC BALLASTS SHALL HAVE .95 POWER FACTOR, .875 BALLAST FACTOR AND LESS THAN 15% TOTAL HARMONIC DISTORTIONS.
- K OUTLET, PULL AND JUNCTION BOXES
- 1. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE, GALVANIZED STEEL OUTLET BOX. JUNCTION AND PULLBOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4" SQUARE WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM WALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. SINGLE GANG RINGS SIMILAR TO STEEL CITY 52-C-50 SHALL BE USED FOR 4" BOXES IN UNFINISHED BRICK. RACO 3180 BOXES MAY BE USED FOR UNFINISHED MASONRY FLUSH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE AND PROVIDE A SMOOTH FINISH BLOCK AT OUTLET LOCATIONS.
- 2. BOXES INSTALLED FOR TELEPHONE, ALARM, COMPUTER AND SECURITY SYSTEMS SHALL BE PROVIDED WITH APPROPRIATE COVERPLATES. L TEMPERATURE CONTROL
- 1. UNLESS OTHERWISE INDICATED ON THE PLANS ALL WIRING, ETC. SHALL BE FURNISHED AND INSTALLED BY THE TEMPERATURE CONTROL CONTRACTOR. PROVIDE CONDUIT FROM TEMPERATURE CONTROL DEVICES SHOWN ON MECHANICAL PLANS TO HVAC UNITS.
- PART 3 EXECUTION

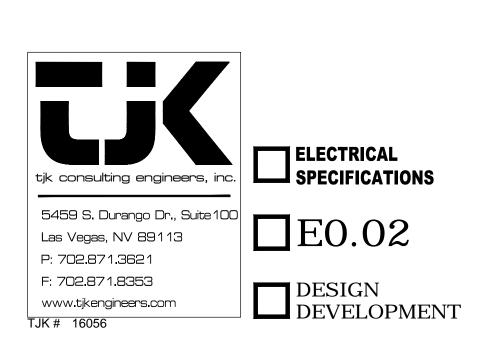
3.1 INSTALLATION

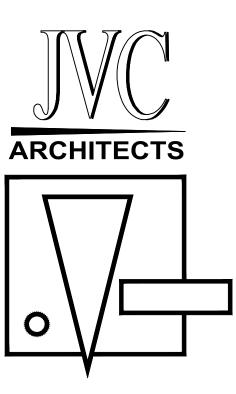
- A EQUIPMENT LOCATIONS SHALL BE AS CLOSE AS PRACTICAL TO LOCATIONS SHOWN ON THE PLAN DRAWINGS AND SUBJECT TO SUCH APPROVED REVISIONS AT NO COST TO THE OWNER AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME WORK IS INSTALLED.
- B CLOSE ALL OPENINGS IN WALLS, FLOORS, AND ROOFS TO THE APPROVAL OF THE ARCHITECT. C PAINT ALL CONDUITS AND BOXES THAT ARE REQUIRED TO BE EXPOSED TO MATCH BUILDING SURFACES. RUN ALL EXPOSED
- CONDUIT PARALLEL AND PERPENDICULAR TO BUILDING LINES. D PROVIDE ENGRAVED PHENOLIC NAMEPLATES ON ALL EQUIPMENT AND INSTALL TYPED DIRECTORY IN PANELBOARDS. FASTEN NAMEPLATES WITH SCREWS OR RIVETS, DO NOT USE ADHESIVE.
- E COORDINATE THE WORK WITH OTHER TRADES.
- F MEGGER TEST ALL FEEDER CIRCUITS AFTER INSTALLATION.
- G INSTALL 200 POUND TEST PULL NYLON PULL CORD IN ALL SIGNAL AND COMMUNICATION CONDUITS. H INSTALL SWITCHES AT 48" AFF AND RECEPTACLES AT 18" AFF UNLESS NOTED OTHERWISE.
- I LIGHTING FIXTURES SHALL BE FASTENED TO THE STRUCTURE INDEPENDENT OF THE CEILING SYSTEM. J CONDUITS AND OUTLETS SHALL BE CONCEALED WITHIN THE BUILDING STRUCTURE; EXCEPT THAT CERTAIN MOTOR AND LIGHTING FEEDER CONDUITS MAY BE RUN EXPOSED IN CERTAIN AREAS AS INDICATED ON THE DRAWINGS. CONDUIT AND OUTLETS SHOWN TO BE INSTALLED IN CABINETS, COUNTERS, AND CASEWORK SHALL BE RUN OR INSTALLED AS DIRECTED BY THE ARCHITECT.
- K FLOOR MOUNTED ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH HOUSEKEEPING PAD EXTENDING 6" BEYOND EQUIPMENT. L PATCH AND REPAIR AREA WHERE ITEMS HAVE BEEN DEMOLISHED OR DAMAGED DURING CONSTRUCTION TO MATCH ADJACENT
- SURFACES TO OWNER'S APPROVAL. M INSTALL PULLBOXES SUCH THAT THEY ARE LOCATED AT THE HIGH POINT OF THE CONDUITS WITH 24" OF PEA GRAVEL INSTALLED
- BELOW. N CONDUITS PENETRATING FLOOR SLABS SHALL BE INSTALLED A MINIMUM OF 2" AFF.
- O LABEL ALL SPARE CONDUITS/PULLSTRINGS AT BOTH ENDS WITH IDENTIFICATION OF LOCATION AT THE OPPOSITE END.
- P A COMPLETELY AND THOROUGHLY SWAB RACEWAY BEFORE INSTALLING WIRE.
- Q REQUEST INSPECTIONS FROM LOCAL GOVERNING AUTHORITIES.
- 3.2 PROJECT COMPLETION
- A REMOVE ALL DISCARDED MATERIALS FROM DEMOLITION AND INSTALLATION FROM THE JOB SITE
- B PROVIDE REPRODUCIBLE RECORD DRAWINGS OF ALL COMPLETED WORK. C GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO ADDITIONAL EXPENSE TO THE

"END OF SECTION"

- - OWNER.

- a. RECEPTACLES 120V, 20A, NEMA 5-20R, SPECIFICATION GRADE, SIDE AND BACK WIRED WITH CLAMP TYPE TERMINALS,









Name - Title Project Title: UNLV Thomas Beam Complex Second Floor TI Data filename: Untitled.cck

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Interio	r Lighting	Comp	liance C	ertif	icate	9
Project Information						
Energy Code:	2012 JECC					
Project Title: Project Type:		n Complex Seco	ond Floor TI			
Construction Site:	Owner/Agent:		•			
4505 S. Maryland Parkway Las Vegas, NV 89154	4505 S. Marylar		5385 Cal Las Vega	meron St. # as, NV 89118		
Allowed Interior Lighting Pow	/er					
Area	A a Category		B Floor Area (ft2)	C Allowed Watts / ft2		
1-WAITING/LOBBY (Common Space T	ypes:Lobby): Exempt					
			128	1.10		141
3-OFFICE 207K (Common Space Type	s:Office - Enclosed)				latta -	
			10	tal Allowed W	aus –	333
Area Category Exemption Qualifi	ications		Io	tal Allowed W	aus –	333
		# Fiz				
Activity Ar	ea –	# Fi: Pre-Alt.		To Pre-Alt	tal # Watt	s ost-Alt.
Activity Ar WAITING/LOBBY (Common Spac	rea – re Types:Lobby 253 sq.ft.)		xtures	То	tal # Watt	s ost-Alt.
Activity Ar WAITING/LOBBY (Common Spac Exemption: Replacement of bulbs ar	rea – te Types:Lobby 253 sq.ft.) nd ballasts only.		xtures	To Pre-Alt	tal # Watt	s ost-Alt.
Activity Ar WAITING/LOBBY (Common Spac Exemption: Replacement of bulbs ar Proposed Interior Lighting Po	rea – te Types:Lobby 253 sq.ft.) nd ballasts only. wer A	Pre-Alt.	xtures	To Pre-Alt	tal # Watt	s ost-Alt. 384.000 E
Activity Ar WAITING/LOBBY (Common Spac Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Descriptio	rea – te Types:Lobby 253 sq.ft.) nd ballasts only. ower A on / Lamp / Wattage Per La	Pre-Alt. amp / Ballast	Repl./Added B Lamps/	To Pre-Alt 384.000 C # of	tal # Watt Po D Fixture	s pst-Alt. 384.000
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space RECEPTION (Common Space Typ	rea – te Types:Lobby 253 sq.ft.) nd ballasts only. wer A on / Lamp / Wattage Per La e Types:Lobby 253 sq.ft.): F pes:Lobby 128 sq.ft.)	Pre-Alt. amp / Ballast	Repl./Added B Lamps/	To Pre-Alt 384.000 C # of	tal # Watt Po D Fixture	s ost-Alt. 384.000 E (C X D
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space Typ Linear Fluorescent 3: 48" T8 32W: E OFFICE 207K (Common Space Typ	rea – te Types:Lobby 253 sq.ft.) nd ballasts only. wer A on / Lamp / Wattage Per La e Types:Lobby 253 sq.ft.): F pes:Lobby 128 sq.ft.) lectronic: ypes:Office - Enclosed 175	Pre-Alt. amp / Ballast Exempt	xtures Repl./Added B Lamps/ Fixture	To Pre-Alt 384.000 C # of Fixtures	tal # Watt D Fixture Watt.	s ost-Alt. 384.000 E (C X D) 168
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space RECEPTION (Common Space Typ Linear Fluorescent 3: 48" T8 32W: E OFFICE 207K (Common Space Typ Linear Fluorescent 6: 48" T8 28W (S	rea – te Types:Lobby 253 sq.ft.) ad ballasts only. Dwer A on / Lamp / Wattage Per La e Types:Lobby 253 sq.ft.): F pes:Lobby 128 sq.ft.) lectronic: ypes:Office - Enclosed 175 uper T8): Electronic:	Pre-Alt. amp / Ballast Exempt	xtures Repl./Added B Lamps/ Fixture 3 3	To Pre-Alt 384.000 C # of Fixtures 2 1	tal # Watt D Fixture Watt. 84 84	s ost-Alt. 384.000 E (C X D) 168 84
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space RECEPTION (Common Space Typ Linear Fluorescent 3: 48" T8 32W: E OFFICE 207K (Common Space Typ Linear Fluorescent 6: 48" T8 28W (S	y Code: 2012 IECC t Time: UNLV Thomas Beam Complex Second Floor TI that Type: Alteration truction Site: Jo Alteration truction Site: Jo Alteration S S. Maryland Parkway Vegas, NV 89154 wed Interior Lighting Power Area Category Balast Designer/Contractor: JVC Architects S 385 Cameron St. #15 Las Vegas, NV 89154 Merid Ago S S. Maryland Parkway Las Vegas, NV 89154 Merid Markey Total Allowed Watts = 333 Category Exemption Qualifications Activity Area Activity Area	s ost-Alt. 384.000 E (C X D) 168 84 68				
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space RECEPTION (Common Space Typ Linear Fluorescent 3: 48" T8 32W: E OFFICE 207K (Common Space Typ Linear Fluorescent 6: 48" T8 28W (S	rea – te Types:Lobby 253 sq.ft.) ad ballasts only. Dwer A on / Lamp / Wattage Per La e Types:Lobby 253 sq.ft.): F pes:Lobby 128 sq.ft.) lectronic: ypes:Office - Enclosed 175 uper T8): Electronic:	Pre-Alt. amp / Ballast Exempt	xtures Repl./Added B Lamps/ Fixture 3 3	To Pre-Alt 384.000 C # of Fixtures 2 1 2	tal # Watt D Fixture Watt. 84 84 34	s ost-Alt. 384.000 E (C X D) 168 84 68
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space RECEPTION (Common Space Typ Linear Fluorescent 3: 48" T8 32W: E OFFICE 207K (Common Space Typ Linear Fluorescent 6: 48" T8 28W (S Linear Fluorescent 7: 24" T8U 32W: Interior Lighting PASSES	rea – te Types:Lobby 253 sq.ft.) ad ballasts only. Dwer A on / Lamp / Wattage Per La e Types:Lobby 253 sq.ft.): F pes:Lobby 128 sq.ft.) lectronic: ypes:Office - Enclosed 175 uper T8): Electronic: Electronic:	Pre-Alt. amp / Ballast Exempt	xtures Repl./Added B Lamps/ Fixture 3 3	To Pre-Alt 384.000 C # of Fixtures 2 1 2	tal # Watt D Fixture Watt. 84 84 34	s ost-Alt. 384.000 E (C X D) 168 84 68
Activity Ar WAITING/LOBBY (Common Space Exemption: Replacement of bulbs ar Proposed Interior Lighting Po Fixture ID : Description WAITING/LOBBY (Common Space RECEPTION (Common Space Typ Linear Fluorescent 3: 48" T8 32W: E OFFICE 207K (Common Space Typ Linear Fluorescent 6: 48" T8 28W (S Linear Fluorescent 7: 24" T8U 32W: Interior Lighting PASSES Interior Lighting Compliance Compliance Statement: The propo- building plans, specifications, and systems have been designed to mo-	rea – re Types:Lobby 253 sq.ft.) nd ballasts only. ower A on / Lamp / Wattage Per La e Types:Lobby 253 sq.ft.): If pes:Lobby 128 sq.ft.) lectronic: ypes:Office - Enclosed 175 uper T8): Electronic: Electronic: Statement osed interior lighting alterat other calculations submitte eet the 2012 IECC requiren	Pre-Alt. amp / Ballast Exempt sq.ft.) tion project rep	Repl./Added B Lamps/ Fixture 3 3 2 resented in this docu	To Pre-Alt 384.000 C # of Fixtures 2 1 2 Total Propos	D Fixture Watt. 84 84 34 eed Watts =	s ost-Alt. 384.000 E (C X D) 168 84 68 320 th the ting

Report date: 08/17/16

Page 1 of 6

COM*check* Software Version 4.0.3.0 Inspection Checklist Energy Code: 2012 IECC

Requirements: 100.0% were addressed directly in the COM*check* software Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumpt	ions
2103.2 PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.		Requirement will be met.	
ddition	al Comments/Assumptions:	!		

	1 High Impact (Tier 1) 2 Medium Impact
Project Title: Data filename:	UNLV Thomas Beam Complex Second Floor TI

Section # & Req.ID	Final Inspection	Complies?
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	□Complies □Does Not □Not Observable □Not Applicable
C405.5.2 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable
C406 [FI34] ¹	Efficient HVAC performance, efficient lighting system, or on-site supply of renewable energy consistent with what is shown the approved plans.	□Complies □Does Not □Not Observable □Not Applicable
Additiona	al Comments/Assumptions:	

# & Req.ID	Final Inspection	Complies?
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	Complies Does Not
		□Not Observab □Not Applicable
C303.3, C408.2.5.	Furnished O&M instructions for systems and equipment to the	□Complies □Does Not
2 [FI17] ³	building owner or designated representative.	□Not Observab □Not Applicable
C405.5.2 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what	□Complies □Does Not
		□Not Observab □Not Applicable
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment,	□Complies □Does Not
	programming, and operation.	□Not Observab □Not Applicable
C406 [FI34] ¹	Efficient HVAC performance, efficient lighting system, or on-site supply of	□Complies □Does Not
	renewable energy consistent with what is shown the approved plans.	□Not Observab □Not Applicable

Project Title: UNLV Thomas Beam Complex Second Floor TI Data filename: Untitled.cck

 1 High Impact (Tier 1)
 2 Medium Impact (Tier 2)
 3 Low Impact (Tier 3)
 Project Title: UNLV Thomas Beam Complex Second Floor TI Report date: 08/17/16 Data filename: Untitled.cck Page 4 of 6

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2. 1	building lighting installed in all	□Complies □Does Not	Requirement will be met.
[EL22] ²	buildings.	□Not Observable □Not Applicable	
1	Independent lighting controls installed per approved lighting plans and all	□Complies □Does Not	Requirement will be met.
[EL23] ²	manual controls readily accessible and visible to occupants.	□Not Observable □Not Applicable	
2	Lighting controls installed to uniformly reduce the lighting load by at least	□Complies □Does Not	Exception: Areas that are controlled by an occupancy senso
[EL15] ¹	50%.	□Not Observable □Not Applicable	
3	individual controls that control the	□Complies □Does Not	Requirement will be met.
[EL16] ²	lights independent of general area lighting.	□Not Observable □Not Applicable	
C405.2.3 [EL17] ³	master switch at the main entry door	□Complies □Does Not	Exception: Requirement does not apply.
	that controls wired luminaires and switched receptacles.	□Not Observable □Not Applicable	
2	Occupancy sensors installed in required spaces.	□Complies □Does Not	Requirement will be met.
[EL18] ¹		□Not Observable □Not Applicable	
3	equipped with required lighting	□Complies □Does Not	Exception: Requirement does not apply.
[EL20] ¹	controls.	□Not Observable □Not Applicable	
3	under skylights and rooftop monitors	□Complies □Does Not	Exception: Requirement does not apply.
[EL21] ¹	are equipped with required lighting controls.	□Not Observable □Not Applicable	
C405.2.3 [EL4] ¹	specific uses installed per approved	□Complies □Does Not	Requirement will be met.
	lighting plans.	□Not Observable □Not Applicable	
C405.3 [EL19] ³	numbered lamp configurations that	□Complies □Does Not	Exception: Electronic high-frequency ballasts.
	are within 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	□Not Observable □Not Applicable	
C405.4 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
C405.2.3 [EL8] ¹	allowed for special functions per the	□Complies □Does Not	Requirement will be met.
	approved lighting plans and is automatically controlled and separated from general lighting.	□Not Observable □Not Applicable	
	al Comments/Assumptions:		
	1 High Impact (Tier 1)	2 Medium Imp	act (Tier 2) 3 Low Impact (Tier 3)

Project Title: UNLV Thomas Beam Complex Second Floor TI

Data filename: Untitled.cck

Comments/Assumptions Requirement will be met. Requirement will be met. See the Interior Lighting fixture schedule for values. Requirement will be met. Requirement will be met.

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Report date: 08/17/16

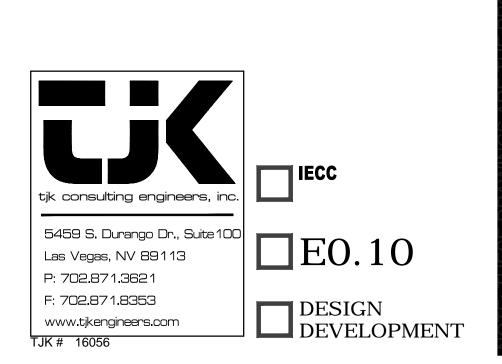
Page 5 of 6

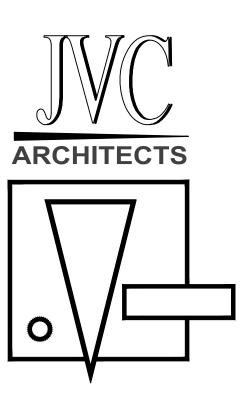
Project Title: UNLV Thomas Beam Complex Second Floor TI Data filename: Untitled.cck

Report date: 08/17/16 Page 6 of 6

Report date: 08/17/16

Page 3 of 6





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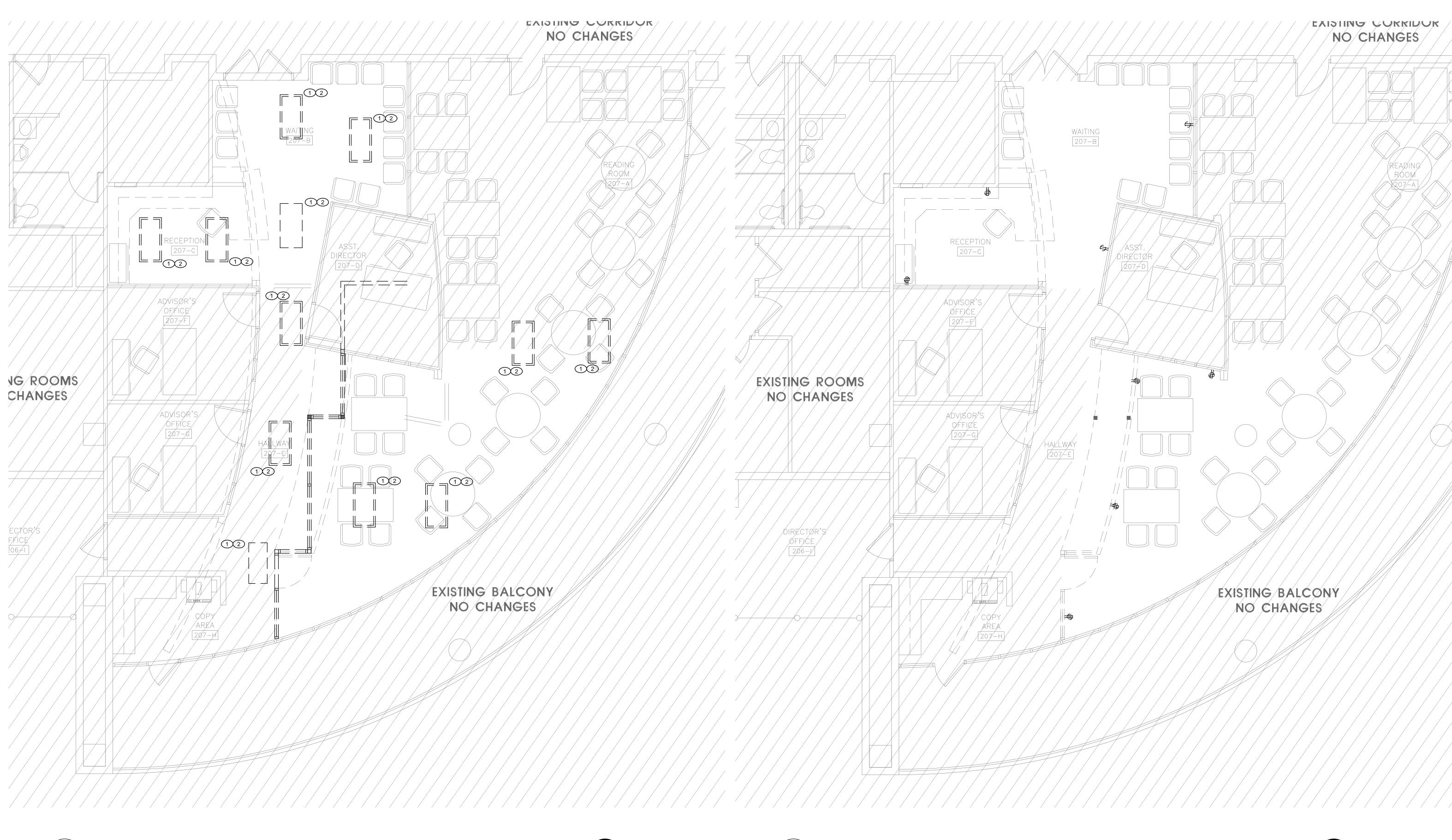


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/ SCALE: 1/4" = 1'-0"

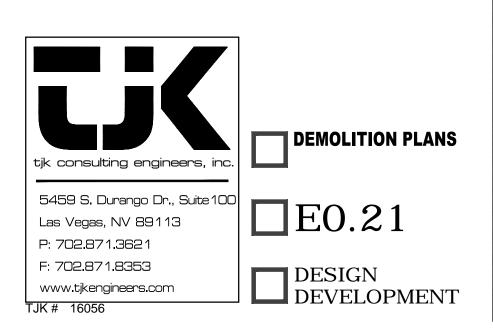
DEMOLITION GENERAL NOTES:

HATCH INDICATES EXISTING AREAS - NO CHANGES.

- 1. ALL CONDUIT AND WIRING FROM REMOVED DEVICES SHALL BE REMOVED BACK TO SOURCE.
- 2. PROVIDE POWER CONTINUATION TO DOWN STREAM DEVICES. 3. CONDUIT IN INACCESSIBLE LOCATIONS SHALL BE CAPPED OFF AND TO REMAIN IN PLACE.
- 4. WIRING SHALL NOT BE ABANDONED IN INACCESSIBLE CONDUITS.
- 5. PROVIDE UPDATED, TYPED PANEL DIRECTORIES FOR ALL PANEL BOARDS WITH CIRCUITS MODIFIED, ADDED OR REMOVED.
- 6. EXISTING CONTROLS TO REMAIN UNLESS NOTED OTHERWISE.

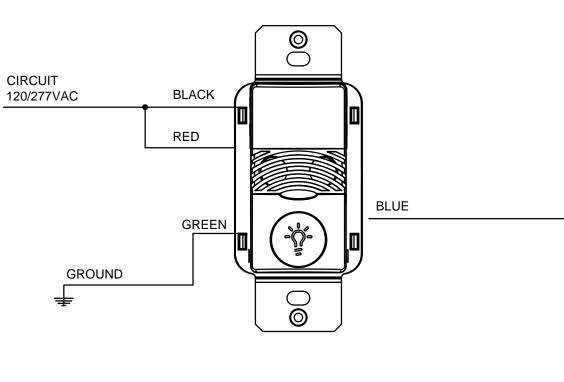
DEMOLITION KEY NOTES: (#)

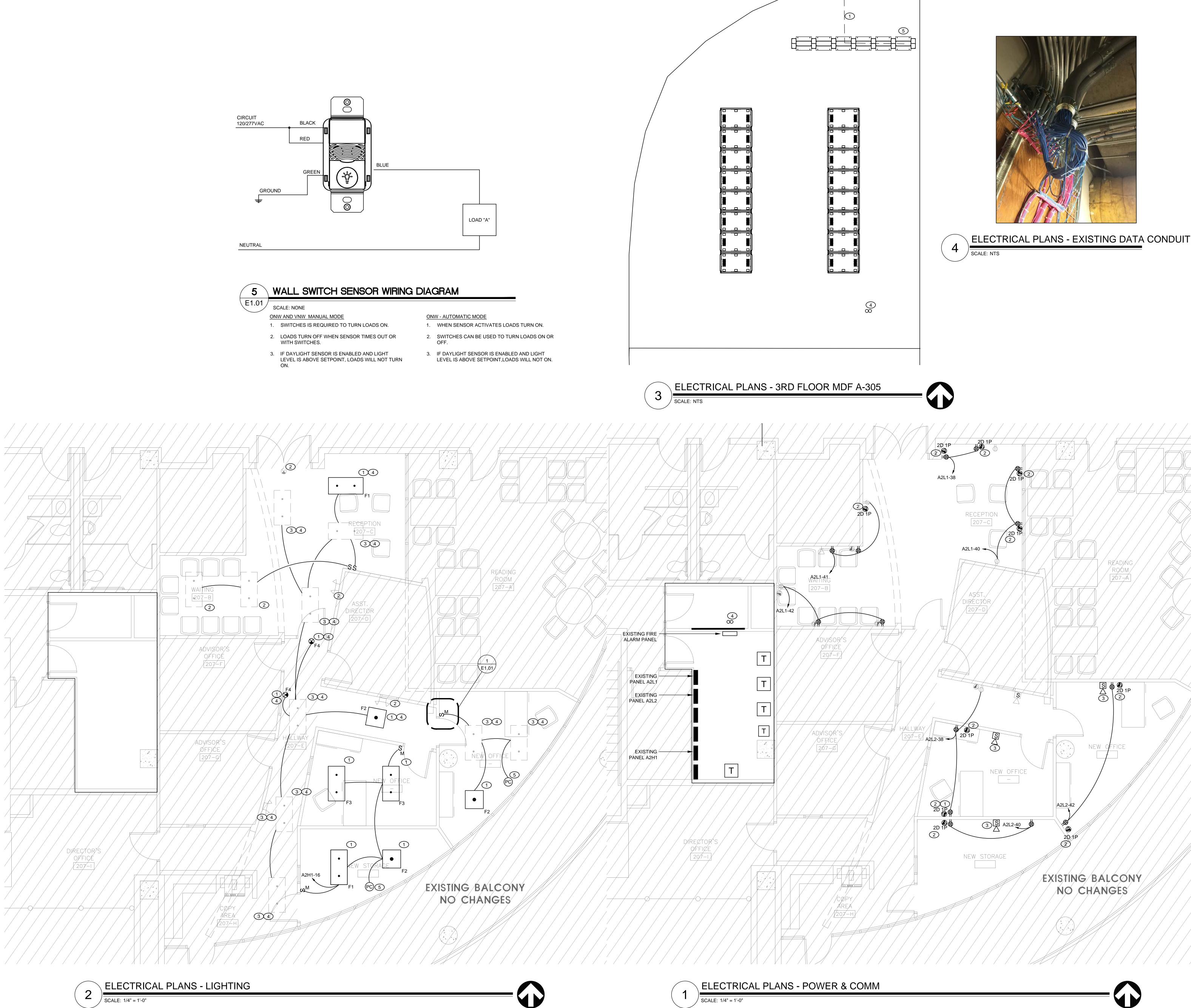
- 1. EXISTING LIGHT FIXTURE TO BE RELOCATED. REFER TO LIGHTING PLAN FOR NEW LOCATION.
- 2. MAINTAIN EXISTING CIRCUIT IN SPACE FOR RE-USE. REFER TO LIGHTING PLAN FOR NEW LOCATION.

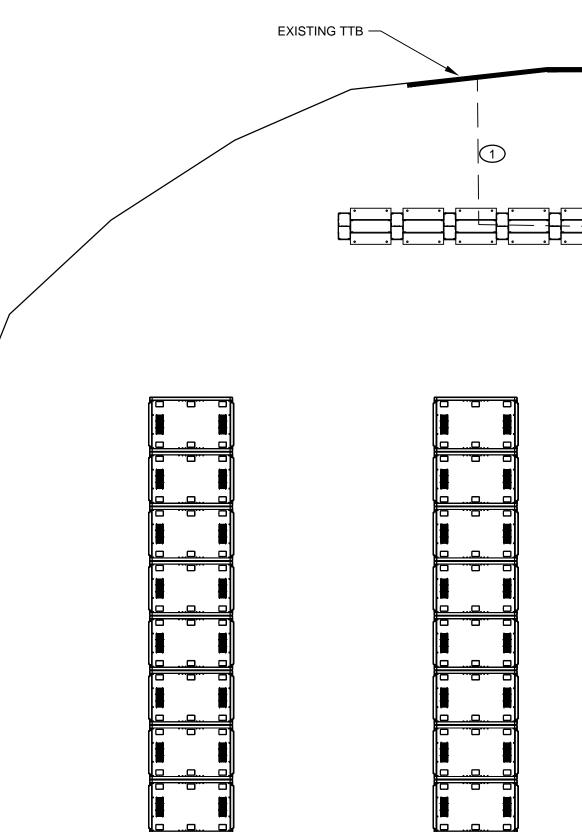


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GENERAL NOTES:

- HATCH INDICATES EXISTING AREAS NO CHANGES. 1. LOCATE ALL DATA OUTLETS ADJACENT TO COMPUTER POWER RECEPTACLES SHOWN ON ELECTRICAL POWER PLANS.
- 2. PROVIDE AND INSTALL ADA HORN / STROBES IN LOCATIONS SHOWN. PROVIDE AND INSTALL ADDITIONAL DEVICES TO OBTAIN 80db THROUGH-OUT THE PROTECTED AREA.
- 3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS SHOWING CONDUIT ROUTING AND CIRCUITING OF THE DEVICES FOR FIRE MARSHAL APPROVAL PRIOR TO START OF INSTALLATION.

LIGHTING GENERAL NOTES:

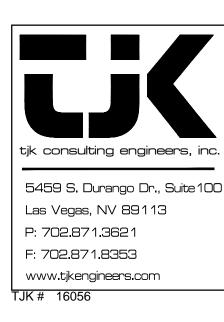
- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- 2. VERIFY EXACT CEILING CONSTRUCTION WITH ARCHITECTURAL REFLECTED CEILING PLAN AND PROVIDE LIGHTING FIXTURES WITH ALL NECESSARY MOUNTING HARDWARE.
- 3. COORDINATE EXACT LIGHTING FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT AND DUCT WORK PRIOR TO ROUGH-IN.
- 4. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED FROM THE SPREAD OF FIRE WITH AN APPROVED FIRESTOP SYSTEM EQUAL OR GREATER THAN THE FIRE RATING OF THE WALL.
- 5. ALL WALL SWITCHES SHALL BE RECESSED IN WALLS. 6. ALL CONDUIT/CABLE INSTALLATION SHALL BE INSTALLED
- IN A NEAT AND WORKMANLIKE MANNER. 7. PROVIDE UNSWITCHED CONDUCTOR FOR ALL
- EMERGENCY BALLAST TO MAINTAIN CHARGING CIRCUIT REGARDLESS OF ON/OFF OF RELAY.

LIGHTING KEY NOTES:

- 1. CONTRACTOR TO PROVIDE NEW FIXTURE. FIXTURE TO MATCH EXISTING.
- 2. EXISTING FIXTURE TO REMAIN.
- 3. EXISTING FIXTURE TO BE RELOCATED TO NEW INDICATED LOCATION.
- 4. EXISTING CIRCUITS TO BE INTERCEPTED AND EXTENDED TO NEW PANEL AS INDICATED.

POWER/COMUNNICATION KEY NOTES: (#)

- 1. PHONE CROSS CONNECT CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO CROSS CONNECT 24 CAT 6 (SOLID CABLES) FROM THE EXISTING PHONE BACKBOARD TO A NEW 24 PORT PATCH PANEL PLACED IN THE EXISTING DATA RACKS. CONTRACTOR TO COORDINATE THE LOCATION OF THE PATCH PANEL IN THE RACK WITH THE UNLV OIT DEPARTMENT. CONTRACTOR SHALL TERMINATE THE PATCH PANEL SIDE AND LEAVE THE BACKBOARD SIDE UN-TERMINATED FOR FUTURE PUNCH DOWN BY UNLV.
- 2. DATA / PHONE OUTLETS CONTRACTOR TO PROVIDE ALL NECESSARY EQUIPMENT TO RUN DATA/PHONE TO THE IDF PASS THRU TO THE MDF ROOM #TPE A305. PROVIDE NEW PATCH PANEL IN THE MDF (LEVITON QUICKPORT HIGH-DENSITY. PATCH PANEL WITH CABLE MANAGEMENT BAR 48 PORTS, CAT-6, UTP, PART#49255-H48), OR APPROVED EQUIVALENT BY UNLV NDE. (WIRE MANAGEMENT JACKS FACEPLATES AND CABLE SUPPORTS) AS REQUIRED FOR ALL NEW NETWORK CABLES REFER TO THE OIT CABLING SPEC LOCATED HERE (http://oit.unlv.edu/sites/default/files/campus_wiring_standards_8-26-15_1.pdf) FOR ADDITIONAL INFORMATION.
- ALL FIRE ALARM DEVICES, CONDUIT, AND WIRING ARE TO BE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. CONDUIT AND WIRING SHALL BE PER CODE. ADDITIONAL DEVICES SHALL BE INSTALLED TO MEET LOCAL AND SPWB FIRE CODE. CONTRACTOR TO PROVIDE SHOP DRAWINGS PRIOR TO COMMENCING WORK.
- EXISTING (2) 2" CONDUIT PATHWAY THAT ROUTE UP TO THE MDF ROOM #TPE A305 ON THE THIRD FLOOR APPROXIMATELY 80' AWAY FROM THE SECOND FLOOR CLOSED TO THE THIRD FLOOR DATA RACK.
- EXISTING DATA RACK TO BE USED FOR THE NEW CONTRACTOR PROVIDED PATCH PANEL..



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ELECTRICAL PLANS

DESIGN DEVELOPMENT

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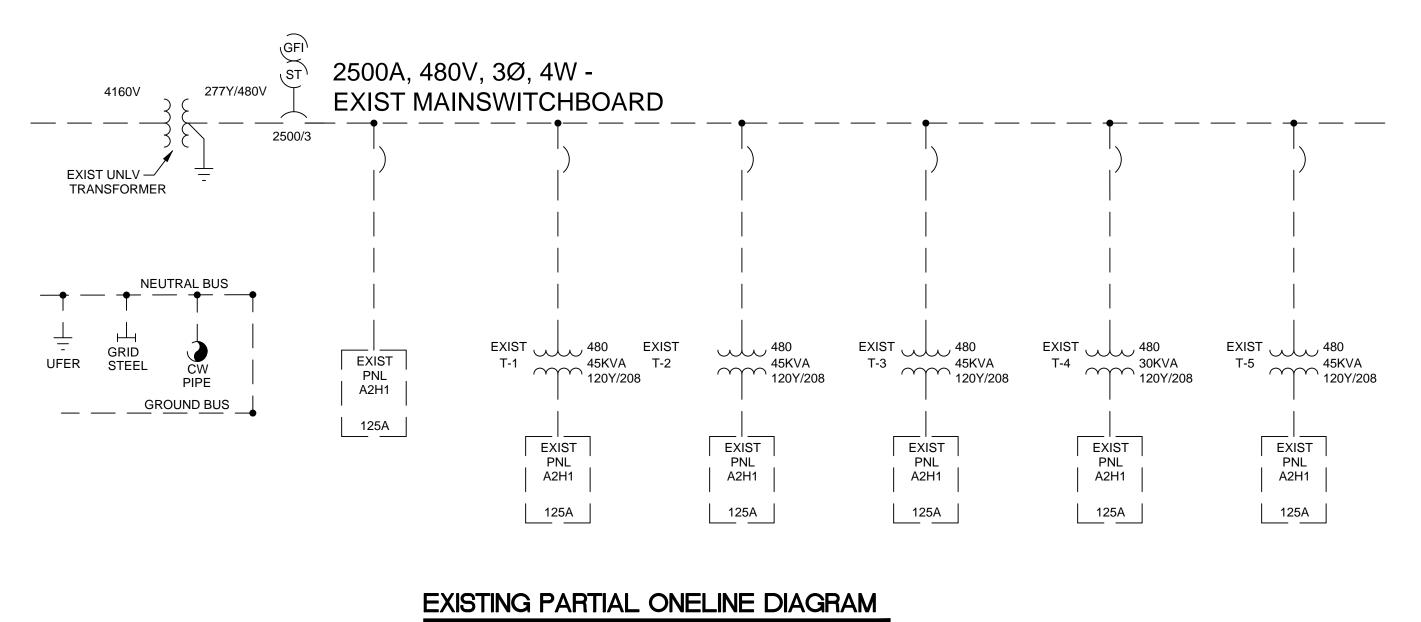
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NOT TO SCALE

ELECTRICAL LOAD CALCULATION					
UNLV THOMAS BEAM SECOND FLOOR TI TJK#16056 277/480					
EXISTING DEMAND 67,613 VA 1	PF		DF 1.25		1AND 34520
EQUIPMENT TO BE ADDED 3 [®] FIXTURES [®] 96 [®]	VA		1.00		290
			TOTA	8	34810
84810 /(480*1.732	2)	100	AMPS	3	
EXISTING PANEL A2H1 TO REMAIN					
ELECTRICAL LOAD CALCULATION					
UNLV THOMAS BEAM SECOND FLOOR TI TJK#16056 277/480					
EXISTING DEMAND 28,265 VA	1 PF			DF 1.25	DEMANE 35330
EQUIPMENT TO BE REMOVED 3 [®] RECEPTACLES [®]	720 ° VA			1.00	-2160
EQUIPMENT TO BE ADDED 3 FIXTURES	250 " VA			1.00	750
				TOTAL	33920
33920 /(200	8*1.732)		90	AMPS	
EXISTING PANEL A2L1 TO REMAIN					
ELECTRICAL LOAD CALCULATION					
UNLV THOMAS BEAM SECOND FLOOR TI TJK#16056 277/480					
EXISTING DEMAND 30,647 VA	0.8 ⁷ PF			DF 1.25	DEMAN 4789
EQUIPMENT TO BE REMOVED 5 RECEPTACLES	360 " VA			1.00	- 180
EQUIPMENT TO BE ADDED 6 RECEPTACLES	360 [°] VA			1.00	216
				TOTAL	4825
48250 /(20	8*1.732)		130	AMPS	

FIXT	
ID	Т
	2' x 4' LAMF
F1	FLOURESC
	GRID PARA
	2' x 2' LAMF
F2	FLOURESC
	GRID PARA
	2' x 4' LAMF
F3	FLOURESC
	GRID PARA
	EXIT LIGHT
F4	WITH BATT

					GE 480Y				DSURE TY PE: NEMA 1			
	CAT							MOUN				
			ROM	WIRES		2		AIC R4	ATING (A): 50000.00	<u></u>		
			CAPACITY (A): 125	NOTES):							
1000			AKER: NO									_
NOTES	CKTS	LOAD	LOAD DESCRIPTION	CKT BRK TRIP	CONNEC	TED LC	AD (VA)	CKT BRK TRIP	LOAD DESCRIPTION	LOAD	CKTS	NOTES
1	1	L	LIGHTS RMS A112 - A120	20	4032	A	3840	20	LIGHTS RMS A311 & A308	L	2	1
1	3	L	LIGHTS RMS A212 - A217	20	4044	В	3840	20	LIGHTS RMS A311 & A309	L	4	1
1	5	L	LIGHTS RMS A211, A206 & A207	20	4080	С	3696	20	LIGHTS RMS A310, A304, A307, A310	L	6	
1	7	_	LIGHTS RMS A220, A206 & A207	20	3792	A	2688	20	LIGHTS RMS A206 & A305		8	
1	9	-	LIGHTS RMS A101 & A102	20	3736	B	2112	20	LIGHTS RM A 306	_	10	_
1	11		LIGHTS RMS A101 & A102	20	2898	C	3072	20	LIGHTS RM A 107	-	12	
1	13		LIGHTS CORRIDOR & RM A109	20	2404	A	2976	20	LIGHTS RMS A 107, A 108 & A 101	L	14	-
1	15		LIGHTS CORR., A208 & BALCONY	20	3372	B	150	20	NEW OFFICE 207-K		16	_
1	17	. – .	LIGHTS CORR., A302 & BALCONY	20	2508	C	100	20	SPACE	_	18	
			LIGHTS RMS A207F, A207G & A207D			-	4		SPACE			_
1	19		SPACE	20	1100	A	<u>.</u>		SPACE		20	-
_	21	1. 1				B					22	
_	23		SPACE			C			SPACE		24	L
_	25		SPACE	<u> </u>		A			SPACE		26	_
	27		SPACE			В			SPACE		28	
	29	1.1	SPACE			C			SPACE		30	
_	31		SPACE			A			SPACE		32	
	33		SPACE			В			SPACE		34	
	35		SPACE			С			SPACE	\square	36	
	37		SPACE			A			SPACE	\square	38	
	39		SPACE			В			SPACE	\square	40	
	41		SPACE			С			SPACE	Π	42	
_				CONNE	ECTED VA		DEMAN	DVA	- Alexandre and Alexandre a			-
1	TO	TΔI	RECEPTACLE (R)		0	0%	0		CONNECTED AMP/F	HΔ	SF	_
			MOTOR (M) LOAD		0	0%	0		A 75.2 B 62.3 0			_
			LIGHTING (L) LOAD @ 125%	5	4340	125%	6792		A 173.2 B 02.3 C	10	0.0	_
			_ KITCHEN (K) LOAD @ 125%	0	0	0%	0/5/				6	55
				-	0		0	-			-	32
		_	FIXED (F) LOAD	<u></u>		0%	1000		TOTAL DEMAND AMP		-	-
			OTHER (O) LOAD		0	0%	0		PERCENT LOA DED		65	1%
			ELEVATOR (EL) LOAD @ 100%		0	0%	0					
NOTES: TOTAL 54340 67925 1. EXISTING BREAKER 2. PROVIDE SHUNT TRIP DEVICE. 7. EXISTING LOAD REMOVED. REUSE EXISTING BREAKER. 3. PROVIDE GFCI DEVICE. 7. EXISTING LOAD REMOVED. REUSE EXISTING BREAKER. 4. PROVIDE RED CIRCUIT BREAKER 8. CIRCUIT BREAKER CONTROLLED BY OTHER EQUIPMENT. 5. PROVIDE SUB-FEED BREAKER. 9. PROVIDE NEW BREAKER, MOUNTING HARDWARE, MATCH 6. CONTROLLED VIA RELAY. TYPE AND AIC RATING.												
	ieve.	100.000	ECTED PANEL (S) LOADS INCLUDED A						©2016 TJK CONSULTING ENGINEER	RS,	INC	3

	CAT				AGE 208Y	1.000		ENCLO MOUNT	SURE TY PE: NEMA 1 ING: EXISTING	
			ROM	WIRES					TING (A): 50000.00	
1000			CAPACITY (A): 150	NOTES		5		AIOTA		
			AKER: NO							
				СКТ				CKT		0
NOTES	CLS	LOAD	LOAD DESCRIPTION	BRK	CONNEC	TEDIO	AD (VA)	BRK	LOAD DESCRIPTION	CKTS
9	CKT	2		TRIP				TRIP		δļģ
1			RECEPT. CORR., MAINT., 3RD FLR	20	1440	A	1440	20	RECEPT. ADULT. & CONF. R	2 1
1			RECEPT. CORR., & MAINT.	20	1440	B	1260	20	RECEPT. ADULT. & CONF. R	4 1
1	100		RECEPT. CORR. & MAINT.	20	1440	C	1440	20	RECEPT. ADULT. & CONF. R	6 1
1			RECEPT. ELEV. LTG.,LOB,LNG,PROJ.	20	1105	A	1260	20	RECEPT. 1ST & ADMIN. R	8 1
1			RECEPT. LOBBY, LOUNGE & PROJ.	20	1105	B	1350	20		10 1
1			RECEPT. LOBBY, LOUNGE & PROJ.	20	1105	C	1350	20		12 1
1			RECEPT. 1ST & ADMIN.	in the second second	and a second	-				Adda and
1		1.1	RECEPT. 1ST & ADMIN. RECEPT. 1ST & ADMIN.	20	1105	A B	1350	20		14 1
1			RECEPT. 1ST & ADMIN.	20	1105		1350	20		16 1
1				20	1105	C	1350	20		18 1
1			RECEPT. VENDING	20	180	A	1350	20		20 1
1		1.00	RECEPT. V ENDING	20	180	В	1140	20		22 1
1			RECEPT. RMS 207-A & 207-B	20	1080	С	1140	20		24 1
1			RECEPT. RMS 207-D, 207-A & 207-B	20	1080	Α	1140	20		26 1
1			RECEPT. RMS 207-A & 207-D	20	1080	В	1140	20		28 1
1			RECEPT. 2ND & ADMIN.	20	1440	С	1140	20		30 1
1			RECEPT. 2ND & ADMIN.	20	1440	A	1140	20		32 1
1			RECEPT. 2ND & ADMIN.	20	1440	В	1140	20		34 1
1			RECEPT. 2ND & ADMIN.	20	1440	С	1140	20		36 1
1			RECEPT. 2ND & ADMIN.	20	1440	A	720	20		38 9
1	39	R	RECEPT. 2ND & ADMIN.	20	1440	В	900	20	RECEPTION 207-C R	40 9
9	41	R	WAITING 207-B	20	1080	С	1080	20	WAITING 207-B R	42 9
				CONNE	ECTED VA		DEMAN	DVA		
	TO	TAI	RECEPTACLE (R)	4	9590	60%	2979	95	CONNECTED AMP/PHAS	SE
			L MOTOR (M) LOAD		0	0%	0		A 134.8 B 133.8 C 1	44.3
			LIGHTING (L) LOAD @ 125%		0	0%	0			
			L KITCHEN (K) LOAD @100%		0	0%	0		TOTAL CONNECTED AMP	138
			L FIXED (F) LOAD		0	0%	0		TOTAL DEMAND AMP	83
			LOTHER (O) LOAD		0	0%	0		PERCENT LOADED	55%
1			LELEVATOR (EL) LOAD @ 100%		0	0%	0			
	NO			4	9590		2979			
	1.	EXI	STING BREAKER			8 (J				
1			OVIDE SHUNT TRIP DEVICE.							
									ITING BREAKER. HER EQUIPMENT.	
									ARDWARE, MATCH	
					ND AIC RA					
	*~~	AIAC	NECTED PANEL (S) LOA DS INCLUDED A	BOVE					©2016 TJK CONSULTING ENGINEERS, II	
	ú		LOTED FAILL (0) LOADS INCLUDED A	DOVE					WELD TO THE CONSULTING ENGINEERS, I	W.

EXISTING A2L2 VOLTAGE 208Y/120V ENCLOSURE TY PE: NEMA 1 LOCATION: 2ND FLR ELECTRICAL R PHASES: THREE MOUNTING: EXISTING										
SUPPLY FROM:	WIRES: FOUR AIC RATING (A): 50000.00									
MIN. BUS CAPACITY (A): 150	NOTES	5:								
MAIN BREAKER: NO										
LOAD DESCRIPTION	CKT				CKT	LOAD DESCRIPTION				
	BRK	CONNEC	TED LOAD (VA)		BRK	LOAD DESCRIPTION				
	TRIP	TRIP			TRIP	S O C				
1 1 R RECEPT. LIBRARY & WORK	20	1440	A 180		20	RECEPT. TELEPHONE ROOM R 2 1				
1 3 R RECEPT. LIBRARY & WORK	20	1440	В	1260	20	RECEPT. COMP. & E.T. ROOM R 4 1				
1 5 R RECEPT. LIBRARY & WORK	20	1440	С	1440	20	RECEPT. COMP. & E.T. ROOM R 6 1				
1 7 R RECEPT. GENERAL TERM. RM.	20	1104	A	1260	20	RECEPT. COMP. & E.T. ROOM R 8 1				
1 9 R RECEPT. GENERAL TERM. RM.	20	1104	В	1350	20	LIGHTS E.T. ROOM L 10 1				
1 11 R RECEPT. GENERAL TERM. RM.	20	1104	С	1350	20	LIGHTS E.T. ROOM L 12 1				
1 13 R RECEPT. GENERAL TERM. RM.	20	1104	A	1350	20	RECEPT E.T. ROOM R 14 1				
1 15 R RECEPT. GENERAL TERM. RM.	20	1104	B	1350	20	RECEPT E.T. ROOM R 16 1				
1 17 R RECEPT. GENERAL TERM. RM.	20	1104	C	1350	20	RECEPT E.T. ROOM R 18 1				
1 19 R RECEPT. VENDING	20	180	A	1350	20	RECEPT E.T. ROOM R 20 1				
1 21 R RECEPT, VENDING	20	180	B	1140	20	RECEPT. PLUGMOLD & TEA CHING R 22 1				
1 23 R RECEPT. VENDING	20	180	C	1140	20	RECEPT. PLUGMOLD & TEACHING R 24 1				
1 25 R RECEPT. GENERAL TERM. RM.	20	1260	A	1140	20	RECEPT. PLUGMOLD & TEACHING R 26 1				
1 27 R RECEPT. GENERAL TERM. RM.	20	1260	B	1140	20	RECEPT. PLUGMOLD & TEA CHING R 28 1				
1 29 R RECEPT. GENERAL TERM. RM.	20	1440	C	1140	20	RECEPT. PLUGMOLD & TEACHING R 30 1				
1 31 L LIGHTS PLANE LIGHTING	20	1440	A	360	20	RECEPT. COPY MACHINE R 32 1				
1 33 R RECEPT. RMA207	20	1440	B	1260	20	RECEPT. RMS 207-F, 207-G & 207-E R 34 1				
1 35 R RECEPT. RMA207	20	1440	C	360	20	RECEPT. 207-G & 207-F R 36 1				
1 37 L LIGHTS RM A207	20	1440	A	540	20	STORAGE 207-L R 38 9				
1 39 R RECEPT. RM A207	20	360	B	720	20	OFFICE 207-K R 40 9				
41 SPACE	20	500	C	720	20	HALLWAY 207-I, OFFICE 207-J R 42 9				
	CONINE	OTEDAVA	-	DEMAN		TREEWAT 2014, OFFICE 201-0 10 42 0				
		CONNECTED VA								
TOTAL RECEPTACLE (R)	3	37884		23942		CONNECTED AMP/PHASE				
TOTAL MOTOR (M) LOAD		0		0 697	E	A 117.8 B 125.8 C 118.3				
TOTAL LIGHTING (L) LOAD @ 125%	5	5580			0					
TOTAL KITCHEN (K) LOAD @100%		0		0		TOTAL CONNECTED AMP 121				
TOTAL FIXED (F) LOAD		0		0		TOTAL DEMAND AMP 86				
TOTAL OTHER (O) LOAD		0		0		PERCENT LOA DED 57%				
TOTAL ELEVATOR (EL) LOAD @ 100%	0		0%	0						
NOTES: TOTAL 1. EXISTING BREAKER	4	3464		3091	17					
2. PROVIDE SHUNT TRIP DEVICE.										
3. PROVIDE GFCI DEVICE. 7.						STING BREAKER.				
4. PROVIDE RED CIRCUIT BREAKER 8. CIRCUIT BREAKER CONTROLLED BY OTHER EQUIPMENT.										
5. PROVIDE SUB-FEED BREAKER. 9. PROVIDE NEW BREAKER, MOUNTING HARDWARE, MATCH 6. CONTROLLED VIA RELAY. 9. PROVIDE NEW BREAKER, MOUNTING HARDWARE, MATCH										
*CONNECTED PANEL (S) LOADS INCLUDED A BOVE ©2016 TJK CONSULTING ENGINEERS, INC.										

LIGHTING FIXTURE SCHEDULE												
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	MANUFACTURER AND	LAMPS			СКТ	REMARKS AND						
TYPE	CATALOG NO.	No.	WATT	TYPE	VOLTS	MOUNTING						
2	COLUMBIA											
ENT	P2-24-3-28SM-LD-3-6-S-EP-U-F5835	3	28	F5835 T5/835	277	ELECTRONIC BALLAST						
BOLIC												
כ	COLUMBIA											
ENT	P2-22-2-17-SM-LD-3-3-S-EPTT-U	2	17	Т8	277	ELECTRONIC BALLAST						
BOLIC												
D C C C C C C C C C C C C C C C C C C C	COLUMBIA											
ENT	P2-24-3-28-G-LD-3-6-S-EP-U-F5835	3	28	F5835 T5/835	277	ELECTRONIC BALLAST						
BOLIC												
	LITHONIA											
ERY BACKUP	SIGNATURE LE-P-I-R-				277							
	277-ELN											

