

1. THIS PROJECT INVOLVES CONSULTING INSIDE AN EXISTING STRUCTURE. CONTRACTORS BY SUBMITTING A BID, ARE DEEMED TO BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITION OF THE BUILDING AS IT INFLUENCES THE WORK DESCRIBED. ASSUMEDLY, NO CLAIMS FOR EXTRA COMPENSATION WILL BE CONSIDERED FOR EXISTING CONDITIONS VISIBLE OR REASONABLY INFERRABLE FROM A CAREFUL EXAMINATION OF THE EXISTING BUILDING.
2. THIS CONTRACTOR SHALL INSPECT THE EXISTING FIELD CONDITIONS AT THE SITE AND THE "AS-BUILT" BASE EXISTING CONDITION DOCUMENTS PRIOR TO THE START OF ANY WORK TO DETERMINE WHAT WILL AFFECT THE EXISTING CONDITIONS. WILL HAVE ON HIS WORK. POTENTIAL PROBLEMS AREFA SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
3. THIS CONTRACTOR SHALL CONNECT HIS WORK TO VARIOUS EXISTING PIPING, DUCTWORK, AND CONTROL SYSTEMS FURNISHED, INSTALLED, AND TERMINATED UNDER THE BASE BUILDING CONTRACT. THE NEW WORK SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM CONDITIONS.
4. LOCATION OF EQUIPMENT ON THE ROOFING OF THE VARIOUS SYSTEMS SHALL BE AS OPENINGS IN THE FLOOR OR ON THE "AS-BUILT" DRAWINGS.
5. CARE SHALL BE TAKEN DURING THE INSTALLATION OF THE NEW WORK, AS WELL TO DAMAGE OR INTERRUPT THE EXISTING BUILDING SYSTEMS AND SERVICES INSTALLED. DAMAGE TO EXISTING SYSTEMS AND EQUIPMENT CAUSED BY THIS CONTRACTOR OR DURING THE INSTALLATION OF HIS WORK SHALL BE REPAIRED AND/OR REPLACED AT THIS CONTRACTORS EXPENSE TO THE COMPLETE SATISFACTION OF THE BUILDING OWNER.
6. SHUTDOWN OF EXISTING SYSTEMS FOR CONNECTION TO EXISTING SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER AND BUILDING OWNER. THIS CONTRACTOR SHALL SUBMIT REQUESTS, WHERE REQUIRED, TO AFFECT THE OPERATION OF THE BUILDING SYSTEMS, AT LEAST ONE (1) WEEK IN ADVANCE OF ANY MUTUALLY AGREED-TO BY THE BUILDING OWNER AND THE CONTRACTOR.
7. DRAWINGS ARE DIAGNOSTIC. THEREFORE DETERMINE EXACT LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.
8. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED AS WELL AS WITH EXISTING SYSTEMS, THE STRUCTURE, AND OTHER OBSTRUCTIONS. OFFERS IN PIPING AND DUCTS INCLUDING DIVERTED DUCTS) AND THE TRANSITION AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
9. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURERS CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSMISSIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
10. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR TERMINAL DEVICES.
11. ALL MATERIALS AND EQUIPMENT SHALL BE UNUSED AND OF NEW MANUFACTURE, EXCEPT FOR EXISTING COMPONENTS INDICATED TO REMAIN AND BE REUSED.
12. ANY DEMOLITION SHALL BE COORDINATED WITH OWNER, ARCHITECT, GC, AND ENGINEER.
13. ACCESS PANELS SHALL BE PROVIDED TO CLEAN AND SERVICE DAMPERS, HEATERS, VALVES, AND ALL CONCEALED MECHANICAL EQUIPMENT.
14. INSTALL THERMOSTATS AT MOUNTING HEIGHTS ABOVE FINISHED FLOOR IN ACCORDANCE WITH "ADA" REQUIREMENTS, OR AS DIRECTED OTHERWISE BY ARCHITECT.
15. CONTRACTOR SHALL PROVIDE THE FOLLOWING SERVICES ON ALL EXISTING HVAC EQUIPMENT INDICATED TO REMAIN:
 - 1. FILTER CHANGES
 - 2. BALANCING
 - 3. LUBRICATION
 - 4. CLEAN COILS
 - 5. CALIBRATE CONTROLS
 - 6. VERIFY FAN ROTATION AND OPERATION
 - 7. VERIFY CONTROLS OPERATION
 - 8. CLEAN CONDENSATE PAN & TRAP
 - 9. VERIFY PITCH OF CONDENSATE DRAIN
16. CONTRACTOR SHALL REPORT ANY EQUIPMENT DEFICIENCIES FOUND TO THE ARCHITECT AND/OR ENGINEER. REFERENCE STANDARDS:
 - 1. 2000 INTERNATIONAL BUILDING CODE WITH SOUTHERN NEVADA AMENDMENTS
 - 2. 2000 UNIFORM MECHANICAL CODE WITH SOUTHERN NEVADA AMENDMENTS
 - 3. LATEST EDITION OF SMACNA SHEET METAL STANDARDS
 - 4. REFER TO PROTECT SPECIFICATIONS PROVIDED BY OTHER DIVISIONS
 - 5. REFER TO BASE BUILDING SPECIFICATIONS AND STANDARDS
17. SUBMITTALS
 - a. MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW, SIX (6) COPIES OF SHOP DRAWING SUBMITTALS POINT OUT ANY EVALUATIONS OF THE SHOP DRAWINGS FROM THE DESIGN. SHOP DRAWINGS SHALL INCLUDE:
 - 1. AIR DISTRIBUTION LAYOUT DRAWINGS AND DETAILS. THE ROUTING OF NEW DUCTWORK IS OTHER MANUFACTURERS' APPROXIMATELY, AS ARE THE POSITIONS OF NEW VAV BOXES AND CHANGES ABOVE CEILING COMPONENTS. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING AND LOCATIONS, PROVIDING PROPER CLEARANCES, MAKING PROVISIONS FOR MAINTENANCE ACCESS, AND COORDINATING WITH EXISTING AND NEW COMPONENTS OF OTHER TRADES. THE STRUCTURE, AND OTHER OBSTRUCTIONS. THE DUCTWORK SHOP DRAWING SUBMITTALS SHALL BE BASED ON THIS COORDINATION EFFORT AND SHALL SHOW ALL AIR DISTRIBUTION COMPONENTS, DUCTWORK AND COMPONENTS THAT WILL BE DRAIN TO SCUL, AND DUCT SHALL BE INDICATED.
 - 2. PIPING DISTRIBUTION DRAWINGS, COMPONENTS, AND DETAILS
 - 3. EQUIPMENT AND SYSTEM CONTROL SCHEMATICS, LOGIC DIAGRAMS AND SYSTEM COMPONENTS
 - b. INCLUDING DETAILS OF THE NEW EXISTING BUILDING CONTROL.
18. AS-BUILT DRAWINGS
 - a. SECURE FROM THE ENGINEER THROUGH THE CONTRACTOR. TWO (2) SETS OF WHITE PRINTS OF ALL DEVIATIONS PERTAINING TO THE WORK. ONE SET OF PRINTS SHALL BE KEPT ON THE SITE AND ALL CHANGES OR DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE CAREFULLY NOTED THEREON. AS THE CHANGES OR DEVIATIONS ARE MADE AT THE COMPLETION OF THE PROJECT AND BEFORE FINAL ACCEPTANCE OF THE PRINTS AND RETURN IT TO THE ENGINEER. THE COST OF PRINTS OBTAINED FROM THE ENGINEER AND ALL COST INCURRED IN THE PREPARATION OF THESE RECORD DRAWINGS SHALL BE BORNE BY THE TRADE. APPROVAL FOR FINAL DRAWING WILL BE GIVEN UNTIL IN THE JUDGMENT OF THE ENGINEER, COMPLETE AND ACCURATE "AS-BUILT" DRAWINGS HAVE BEEN SUBMITTED.
 - b. OPERATING AND MAINTENANCE INSTRUCTIONS
 - c. THIS TRADE SHALL FEAR ALL COST FOR PROVIDING THREE (3) COPIES OF MANUFACTURERS OPERATING AND MAINTENANCE INSTRUCTIONS FOR EACH PIECE OF EQUIPMENT AND SYSTEM.
 - d. COPIES SHALL BE COMPILED IN SETS AND PLACED IN A HARD COVER THREE WITH INDEX PAGES AND INDEXING TABS. ALL NAME TAG INFORMATION SUCH AS MAKE, TYPE, SIZE, CAPACITY, SERIAL NUMBER, ETC., SHALL BE INCLUDED AS PART OF THE MANUAL.
 - e. PROVIDE WRITTEN OPERATING INSTRUCTIONS WITH DIAGRAMS FOR THE AIR CONDITIONING UNITS.
 - f. EXHAUST FANS, ETC.
 - g. THE ABOVE INFORMATION SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
19. MOTORS, STARTERS, AND WIRING
 - a. PROVIDE MOTORS AND CONTROLS, AND FURNISH STARTERS FOR HVAC EQUIPMENT, EXCEPT UNITS SERVED BY MCC PROVIDED UNDER SECTION 16.100. ELECTRIC WORK, PROVIDE CONTROL AND OTHER RELATED WIRING INCLUDING TERMINALS, ALL MOTORS SHALL BE PREMIUM EFFICIENCY. ALL THREE PHASE MOTORS SHALL BE RATED FOR FOUR INVERTER DUTY SERVICE.
20. VIBRATION ISOLATION
 - a. VIBRATION ISOLATION FOR EACH PIECE OF ROTATING OR PISTON DRIVEN HVAC EQUIPMENT SHOWN ON THE DRAWINGS. ALL ISOLATION COMPONENTS SHALL BE SUPPLIED BY A SINGLE MANUFACTURER - VASONS INDUSTRIES OR AMBER BORTH. TYPES OF ISOLATORS, REQUIRED DEFLECTIONS AND INSTALLATION PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE VIBRATION ISOLATION MANUFACTURER.

[illegible]

Aluminum (cm)	Round Duct Size (Inches)	Equivalent Rectangular Duct Sizes (Inches x Inches)			
		4x8	6x6	8x8	10x10
80-100	6				
100-150	7	4x12	6x8		
150-200	8	6x10	8x8		
200-300	9	6x12	8x10		
300-400	10	6x16	8x12	10x10	
400-500	11	6x20	8x14	10x10	
500-600	12	6x24	8x16	10x12	
600-750	13	8x18	10x14	12x12	
750-1000	14	8x24	10x16	12x14	
1000-1200	15	8x26	10x20	12x16	14x14
1200-1400	16	8x30	10x24	12x18	14x16
1200-1700	17	10x26	12x22	14x18	16x16
1700-1900	18	10x28	12x24	14x20	16x18
1900-2200	19	12x26	14x24	16x20	18x18
2200-2500	20	12x30	14x26	16x22	18x20
2500-2800	22	12x36	14x30	16x26	18x24

SERVICE	PIPE MATERIAL	TYPE OF JOINTS	FITTING	PRESSURE RATING P.S.I. SWP OR WEIGHT	150	CHILLED WATER	STEEL SCH40 40	SCREWED IRON OR	95.5 SOLDERED	MALLEABLE OR	150	COLD WATER	STEEL SCH40 40	WELDED	STEEL	SCHE40	HOT WATER	STEEL SCH40 40	SCREWED IRON OR	95.5 SOLDERED	MALLEABLE OR	150	HOT WATER	STEEL SCH40 40	WELDED	STEEL	SCHE40 40	CONDENSATE DRAIN
					125																							

SPECIFICATIONS					
H0.02					
SHEET NUMBER					
PROJECT NUMBER 07087 LEVEL 1T		NUMBER			
DRAWN BY: SQ		CHECKED BY: PR		REVISION DESCRIPTION	
ISSUE DATE 16 JULY 07				DATE	
SCALE					
NO SCALE					
<div>The Palazzo Lido Casino Resort, LLC Stefano Canturi Project - 07087 3240 Las Vegas, NV 89109</div>					
<div>ESTAR ARCHITECTS WESTAR Architectural Group/Nevada, Inc ARCHITECTURE • PLANNING • INTERIOR DESIGN 701 BRIDGER AVENUE SUITE 400 LAS VEGAS, NEVADA 89101 TELEPHONE: (702) 878-0000 FAX: (702) 878-8430 WWW.WSTARARCHITECTS.COM</div>					