

GENERAL STRUCTURAL NOTES

TYPICAL DETAILS: AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS. ALL WORK OR CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES, REGULATIONS AND SAFETY REQUIREMENTS.

DISCREPANCIES: THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING, DURING THE BIDDING PERIOD, OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS OR OF ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. UPON RECEIPT OF SUCH INFORMATION, THE ENGINEER WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND WORK SHALL BE PERFORMED IN A MANNER AS DIRECTED BY THE ENGINEER.

DISCREPANCIES: THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS AT THE JOB SITE AND BRING TO THE ENGINEER'S ATTENTION ANY DISCREPANCIES.

SHORING: IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING AND FORMWORK, ETC., AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING THE CONSTRUCTION OF THIS BUILDING. EXCESS LOAD CAPACITY OF SLAB SHALL NOT EXCEED LOADS EQUIVALENT TO THE DESIGN SUPERIMPOSED LOADS LESS CONSTRUCTION DEAD AND LIVE LOADS. DESIGN SUPERIMPOSED LOADS INCLUDE LIVE LOAD, PARTITION LOAD, AND ANY OTHER LOAD NOT IN PLACE AT THE TIME OF SHORING.

EXCAVATION: THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE LOCAL BUILDING DEPARTMENT.

OTHER TRADES: SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF PIPE, VENT, DUCT AND OTHER OPENINGS AND DETAILS NOT SHOWN ON THESE STRUCTURAL DRAWINGS. ALL DIMENSIONS ARE TO BE CHECKED AND VERIFIED WITH THE ARCHITECTURAL DRAWINGS.

BACKFILL: BACKFILL AROUND THE EXTERIOR PERIMETER OF WALLS SHALL NOT BE PLACED UNTIL AFTER THE WALLS ARE SUPPORTED BY THE COMPLETION OF INTERIOR FLOOR SYSTEMS. DO NOT PROCEED WITH BACKFILL UNTIL (7) DAYS AS A MINIMUM AFTER THE COMPLETION OF INTERIOR FLOOR SYSTEMS UNLESS WALLS ARE ADEQUATELY BRACED. BACKFILL SHALL NOT BE PLACED UNTIL AFTER COMPLETION AND INSPECTION OF WATERPROOFING WHERE WATERPROOFING OCCURS.

BRACING: TEMPORARY BRACING SHALL BE PROVIDED AS REQUIRED TO HOLD ALL COMPONENTS OF THE STRUCTURE IN PLACE UNTIL FINAL SUPPORT IS SECURELY ANCHORED.

WELDING: ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED FOR THE WELDS TO BE MADE; SEE SPECIFICATIONS FOR WELDING PROCESS TO BE USED. WELDING OF REINFORCING STEEL FOR USE IN STRUCTURAL CONCRETE OR STRUCTURAL MASONRY SHALL BE PERMITTED ONLY WHERE SPECIFICALLY DESIGNATED ON THESE PLANS OR WHERE SPECIFICALLY APPROVED BY THE ENGINEER.

SIDEWALK PROTECTION: PEDESTRIAN TRAFFIC SHALL BE PROTECTED AS SPECIFIED IN CHAPTER 33 OF THE 1997 UBC.

MATERIAL AND WORKMANSHIP: THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES OF EVERY KIND, INCLUDING WATER AND POWER, NECESSARY FOR THE PROPER EXECUTION OF THE WORK SHOWN OR INDICATED ON THESE DRAWINGS. ALL MATERIAL SHALL BE NEW AND MATERIALS AND WORKMANSHIP SHALL BE IN GOOD QUALITY. ALL WORKMEN AND SUBCONTRACTORS SHALL BE SKILLED IN THEIR TRADE.

MATERIALS AND WORKMANSHIP WARRANTY: THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS AND CORRECT POOR WORKMANSHIP WITH NO ADDITIONAL COSTS TO THE OWNER, AND SHALL REMEDY ANY DEFECTS IN MATERIAL OR WORKMANSHIP WHICH APPEAR IN ONE YEAR FROM THE DATE OF COMPLETION OF THE JOB. THIS WARRANTY APPLIES TO THE WORK DONE BY THE SUBCONTRACTORS AS WELL AS THE WORK DONE BY THE EMPLOYEES OF THE CONTRACTOR.

SAFETY: THE CONTRACTOR SHALL ADEQUATELY PROTECT HIS WORK, ADJACENT PROPERTY AND THE PUBLIC, AND BE RESPONSIBLE FOR DAMAGE OR INJURY DUE TO HIS / HER ACT OR NEGLIGENCE.

JOBSITE: THE PREMISES SHALL BE KEPT FREE FROM ACCUMULATION OF WASTE MATERIALS, AND DEBRIS, AND AT THE END OF THE JOB THE CONTRACTOR SHALL REMOVE ALL RUBBISH, SURPLUS MATERIALS, AND TOOLS AND LEAVE THE BUILDING BROOM CLEAN.

INSPECTIONS: ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

SHOP DRAWINGS: SHOP DRAWINGS ARE AN AID FOR FIELD PLACEMENT AND ARE SUPERSEDED BY THE STRUCTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO MAKE CERTAIN THAT ALL CONSTRUCTION IS IN FULL AGREEMENT WITH THE LATEST STRUCTURAL DRAWINGS.

SHOP DRAWING CHECK: THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH ONE SEPIA COPY OF SHOP DRAWINGS A MINIMUM OF ONE WEEK PRIOR TO PLACEMENT. THE REVIEW OF SHOP DRAWINGS BY THE ENGINEER IS ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS. THIS REVIEW DOES NOT GUARANTEE IN ANY WAY THAT THE SHOP DRAWINGS ARE CORRECT NOR DOES IT INFER THAT THEY SUPERSEDE THE STRUCTURAL DRAWINGS.

FOOTINGS: ALL FOOTING SHALL EXTEND A MINIMUM OF 18 INCHES BELOW FINISHED OR NATURAL GRADE INTO UNDISTURBED SOIL.

SUBGRADE PREPARATION: THE RECOMMENDATIONS OF THE SOILS REPORT SHALL BE FOLLOWED FOR GRADING AND PREPARING THE SUBGRADE FOR FOOTINGS AND SLAB ON GRADE.

DESIGN: FOUNDATION DESIGN IN CONFORMANCE WITH RECOMMENDATIONS BY: NINOYO & MOORE LAS VEGAS, NV, REPORT NO. 300966001 DATED: JUNE 26 2002

ALLOWABLE BEARING PRESSURES:

DESCRIPTION / CONDITION	CONTINUOUS FOOTINGS	ISOLATED FOOTINGS
VERTICAL LOAD, NO SEISMIC OR WIND	1200 PSF	1200 PSF
VERTICAL LOAD PLUS SEISMIC OR WIND	1600 PSF	1600 PSF

ALLOWABLE BEARING VALUES INCREASED BY 1/3 WHERE WIND OR SEISMIC LOADS ACT ALONE OR IN COMBINATION WITH VERTICAL LOADS.

WATERPROOFING: ALL RETAINING WALLS OF THE BUILDING SHALL BE WATERPROOFED.

INSPECTIONS: THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL INSPECT ALL SUBGRADE PREPARATION WORK PRIOR TO THE PLACEMENT OF ANY REINFORCING STEEL OR CONCRETE AND SHALL PERFORM TESTS AS NECESSARY TO VERIFY THAT SUCH WORK IS IN CONFORMANCE WITH THE RECOMMENDATION GIVEN IN THE SOIL REPORT.

SOIL DATA:

PILES MAX BEARING (DEAD + LIVE) UPLIFT LATERAL RESISTANCE BATTERED PILES 1:4 1:3.5 1:3 NOTES

VERTICAL LOADS - PSE:

DESCRIPTION:	DEAD	LIVE (UNREDUCED)	TOTAL
ROOF	18	16	34
2nd FLOOR	00	00	= 00

BUILDING DESIGN:

PER 1997 UBC.
SEISMIC ZONE 2B SOIL PROFILE TYPE SE
BASIC WIND SPEED = 75 MILES PER HOUR
EXPOSURE B

66604

CONCRETE NOTES

CONCRETE PLACEMENT AND QUALITY: SHALL BE PER RECOMMENDATIONS IN ACI 301 AND SUPPLEMENT S1. A COPY SHALL BE AVAILABLE AT THE CONSTRUCTION SITE DURING CONSTRUCTION. MECHANICALLY VIBRATE CONCRETE DURING PLACEMENT.

CURING: PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. START CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE AFTER PLACING AND FINISHING. KEEP CONTINUOUSLY MOIST FOR AT LEAST 14 DAYS ACCORDING TO ACI 301 PROCEDURES. CURING MAY BE BY MOIST CURING, MOISTURE RETAINING COVER, CURING COMPOUND OR COMBINATIONS THEREOF.

COLD WEATHER CONCRETING: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH CAUSED BY FROST. FREEZING ACTIONS OR LOW TEMPERATURES IN COMPLIANCE WITH ACI 306. WHEN TEMPERATURES FALL BELOW 40 DEGREES FAHRENHEIT, UNIFORMLY HEAT WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT LESS THAN 50 DEGREES FAHRENHEIT AND NOT MORE THAN 80 DEGREES FAHRENHEIT AT POINT OF PLACEMENT.

HOT WEATHER CONCRETING: PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH CAUSED BY HIGH TEMPERATURES IN COMPLIANCE WITH ACI 305. UNIFORMLY COOL WATER AND AGGREGATES BEFORE MIXING TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT GREATER THAN 90 DEGREES FAHRENHEIT AT POINT OF PLACEMENT.

DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE POURING.

SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS, COLUMNS, AND DROP CAPITALS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES OR TRUNKS OF VARYING LENGTHS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 5 FEET, AND A SUFFICIENT NUMBER SHALL BE USED TO ENSURE THE CONCRETE IS BEING PLACED AT ALL TIMES.

INSERTS: ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC. SHALL BE SECURELY POSITIONED IN THE FORMS BEFORE PLACING THE CONCRETE.

DOWELING: ALL WALLS AND COLUMNS SHALL BE DOWELED INTO FOOTINGS, WALLS, BEAMS, OR SLABS WITH BARS OF THE SAME SIZE AND SPACING AS THE BARS ABOVE. USE A (30) BAR DIAMETER LAP EXCEPT WHERE SPECIFICALLY INDICATED.

SPICES: VERTICAL WALL BARS SHALL BE SPICED AT OR NEAR FLOOR LINES. SPICE BARS IN SPANDRELS, WALLS, BEAMS, GRADE BEAMS, ETC., AS FOLLOWS: TOP BARS AT CENTER LINE OF SPAN, BOTTOM BARS AT THE SUPPORT. ALL REINFORCING STEEL SHALL BE SECURELY WIRED AND PROPERLY SUPPORTED ABOVE THE GROUND AND AWAY FROM FORMS.

CONTROL JOINT SPACING:

SLAB THICKNESS INCHES	CONTROL JOINT SPACING SLUMP 4-6 INCHES	SLUMP < 4 IN.
4"	8 FT.	12 FT.
5"	10 FT.	15 FT.
6"	12 FT.	18 FT.
7"	14 FT.	21 FT.
8"	16 FT.	24 FT.
9"	18 FT.	27 FT.
10"	20 FT.	30 FT.

PIPES: PIPES OTHER THAN ELECTRICAL CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ENGINEER. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER.

WELDED WIRE FABRIC: WELDED WIRE FABRIC SHALL CONFORM TO ASTM A82 AND A185.

TEMPERATURE REINFORCEMENT: SHALL HAVE A LAP OF (30) BAR DIAMETERS BUT NOT LESS THAN 12 INCHES, AND THE SPICES IN ADJACENT BARS SHALL BE NOT LESS THAN 5 FEET APART.

WELDED REBAR: ALL WELDED REINFORCING STEEL SHALL BE A.S.T.M. A706. LOW HYDROGEN E70XX. WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BARS. ALL WELDING OF REINFORCING STEEL SHALL BE DONE BY AN APPROVED FABRICATOR OR HAVE CONTINUOUS INSPECTION BY AN INDEPENDENT INSPECTION AGENCY.

REBAR GRADES: ALL REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS:
#4 & SMALLER BARS GRADE 40
#5 & LARGER BARS GRADE 60

REBAR COVER: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" ARE TO CENTER OF STEEL. MINIMUM REBAR COVER FOR NON- PRESTRESSED CONCRETE SHALL BE AS FOLLOWS:

DESCRIPTION / CONDITION	MINIMUM COVER	TOLERANCES + OR -
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8"
EXPOSED TO EARTH OR WEATHER		
NO. 5 AND SMALLER BARS	1-1/2"	3/8"
NO. 6 AND LARGER BARS	2"	3/8"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
ROOF SLAB	1"	1/8"
STRUCTURAL SLABS AND WALLS	3/4"	1/8"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1-1/2"	3/8"
SLABS ON GRADE	1-1/2"	1/4"

TOLERANCES FOR REBAR PLACEMENT: TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS 2 INCHES EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE TOLERANCES SHALL BE PLUS OR MINUS 1/2 INCH.

CONCRETE QUALITY:

CONCRETE USE:	STRENGTH @ 28 DAYS	SLUMP	AIR	AGGREGATE SIZE	W/C RATIO	AGGREGATE TYPE
EXTERIOR WALKS AND CURBS	4500	4"	-	1-1/2"	.45	HARDROCK
GRADE SLAB	4500	4"	-	1-1/2"	.45	HARDROCK
COLUMN FOOTINGS	4500	4"	-	1-1/2"	.45	HARDROCK
SPREAD FOOTINGS	4500	4"	-	1-1/2"	.45	HARDROCK
CONTINUOUS FOOTINGS	4500	4"	-	1-1/2"	.45	HARDROCK
2nd FLOOR	4500	4"	-	1"	.45	LT. WT. CONC.

NOTE: FOUNDATIONS WERE DESIGNED AT 2500 PSI. THE 4500 PSI STRENGTH IS REQUIRED PER THE CORROSIVE SALT IN THE SOIL. THEREFORE, NO SPECIAL INSPECTION IS REQUIRED FOR NOTE 3A OF STRUCTURAL TEST AND INSPECTIONS.

CONCRETE: HARDROCK CONCRETE SHALL BE OF 150 POUNDS PER CUBIC FOOT MAX. LIGHT WEIGHT CONCRETE SHALL BE OF 110 POUNDS PER CUBIC FOOT MAX.

AGGREGATE: AGGREGATE SHALL BE AS FOLLOWS: HARDROCK ASTM 33 LT. WT. ASTM 330

CEMENT: SHALL BE TYPE II. CONCRETE IN CONTACT WITH ON SITE SOILS SHALL CONTAIN TYPE V OR EQUIVALENT SULFATE RESISTANT CEMENT.

CONCRETE MIXES: SHALL BE DESIGNED BY A CERTIFIED INDEPENDENT LABORATORY.

CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY TESTING AGENCY. CONCRETE SHALL BE PLACED WITHIN 15 MINUTES AFTER DISCHARGE.

CRACKING ALLOWANCE: THE CONTRACTOR SHALL PROVIDE 0.065 LINEAR FEET OF EPOXY PRESSURE GROUTING PER SQUARE FOOT OF STRUCTURAL SLAB. THE CONTRACTOR SHALL REIMBURSE THE OWNER FOR THE UNUSED PORTION.

FIELD FOREMAN: THE FIELD FOREMAN RESPONSIBLE FOR THE PLACEMENT OF ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM OF (3) YEARS EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF CONSTRUCTION.

STEEL NOTES

VERIFY: ALL MEASUREMENTS AT JOB.

COORDINATE: ALL METAL WORK WITH ADJOINING WORK FOR DETAILS OF ATTACHMENT, FITTINGS, ETC.

MISCELLANEOUS FASTENINGS: PROVIDE ALL LUGS, CLIPS, ANCHORS AND MISCELLANEOUS FASTENINGS NECESSARY FOR THE COMPLETE ASSEMBLY AND INSTALLATION.

GROUTING: DO ALL GROUTING OF FRAMES, PLATES, SILLS, BOLTS, AND SIMILAR ITEMS WITH NON-SHRINK GROUT.

PROTECTION: PROTECT ALL DISSIMILAR METALS FROM GALVANIC CORROSION.

WELDING: PERFORM ALL WELDING IN ACCORDANCE WITH AWS CODE D 1.1. WELDS SHALL BE MADE ONLY BY OPERATORS EXPERIENCED IN PERFORMING THE TYPE OF WORK INDICATED. WELDS NORMALLY EXPOSED TO VIEW IN THE FINISHED WORK SHALL BE UNIFORM AND SMOOTH. WHERE WELDING IS DONE IN PROXIMITY TO GLASS OR FINISHED SURFACES, SUCH SURFACES SHALL BE PROTECTED FROM DAMAGE DUE TO WELD SPARKS, SPATTER, OR TRAMP METAL.

BOLTED, SCREWED, AND RIVETED CONNECTIONS: PROVIDE WASHERS UNDER ALL HEADS AND NUTS BEARING ON WOOD. DRAW ALL NUTS TIGHT AND UPSET THREADS OF PERMANENT CONNECTIONS TO PREVENT LOOSENING. USE BEVELED WASHERS WHERE BEARING IS ON SLOPED SURFACES.

CLEANING: THOROUGHLY CLEAN ALL MILL SCALE, RUST, DIRT, GREASE AND OTHER FOREIGN MATTER FROM FERROUS METAL PRIOR TO ANY GALVANIZING, HOT PHOSPHATE TREATMENT OR PAINTING.

PAINTING: AFTER MATERIAL HAS BEEN PROPERLY CLEANED AND TREATED, APPLY SHOP PRIME COAT OF PAINT TO ALL SURFACES EXCEPT THOSE ENCASED IN CONCRETE OR MASONRY. APPLY ALL PAINT AS PER MANUFACTURER'S DIRECTIONS. SPOT PAINT ALL ABRASIONS AND FIELD CONNECTIONS AFTER ASSEMBLY. SHOP COAT SHALL BE DRY PRIOR TO SHIPMENT TO JOB SITE. UNLESS OTHERWISE SPECIFIED OR DIRECTED, DO NOT APPLY SHOP PRIME COATS OR ANY STENCILED OR PAINTED IDENTIFICATION MARKINGS TO ANY GALVANIZED SURFACES.

GALVANIZING: CONFORM TO ASTM A123 FOR ROLLED, PRESSED AND FORGED SHAPES, PLATES, BAR AND STRIP; A153 FOR HARDWARE ITEMS AND A386 FOR ASSEMBLED STEEL PRODUCTS. CONFORM TO ASTM A384 AND A385 (RECOMMENDED PRACTICES) PERTAINING TO GALVANIZING ASSEMBLED STEEL PRODUCTS, UNLESS OTHERWISE PERMITTED. DO ALL GALVANIZING AFTER FABRICATION, IN LARGEST SECTIONS PRACTICABLE. WHERE GALVANIZING IS REMOVED BY WELDING OR OTHER ASSEMBLY PROCEDURE, TOUCH UP ABRADED AREAS WITH MOLTEN ZINC OR ZINC-RICH PAINT.

MATERIALS: STANDARD STRUCTURAL STEEL SHAPES, BARS AND PLATES SHALL BE ASTM A36. STEEL TUBING SHALL BE ASTM A500 (COLD ROLLED) GRADE A OR B, OR ASTM A501 (HOT ROLLED) WELDED OR SEAMLESS.

BOLTS: SHALL CONFORM TO ASTM 307, GRADE A, UNLESS NOTED OTHERWISE.

WELDING PROCEDURES: WELDERS AND TACKERS FOR STRUCTURAL METAL WORK SHALL BE QUALIFIED IN ACCORDANCE WITH SECTION 2205 OF 1997 UBC. ALL FIELD WELDING TO HAVE SPECIAL INSPECTION.
WELDING ELECTRODES: TO BE E70XX.

PAINTED STUDS AND JOISTS: ASTM A570 FOR 12, 14, AND 16 GAGE WITH A MINIMUM YIELD STRENGTH OF 50 KSI, ASTM A611 GRADE C FOR 18 AND 20 GAGE STUDS, JOISTS, BRIDGING, TRACK, END CLOSURES AND ACCESSORIES WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

GALVANIZED STUDS AND JOISTS: ASTM A446 GRADE D FOR 12, 14, AND 16 GAGE WITH A MINIMUM YIELD STRENGTH OF 50 KSI, ASTM A446 GRADE A FOR 18 AND 20 GAGE STUDS, JOISTS, BRIDGING, TRACK, END CLOSURES AND ACCESSORIES WITH A MINIMUM YIELD STRENGTH OF 33 KSI.

GALVANIZED DECKING: ASTM A446.

SHOP DRAWINGS: SHOP DRAWINGS SHALL SHOW DIMENSIONS, SIZES, THICKNESSES, GAGES, FINISHES, JOINING, ATTACHMENTS, AND RELATIONSHIP OF WORK TO ADJOINING CONSTRUCTION. WHERE WELDED CONNECTORS AND INSERTS ARE REQUIRED TO RECEIVE WORK, SHOP DRAWINGS SHALL SHOW EXACT LOCATIONS REQUIRED, AND ALL SUCH DRAWINGS SHALL BE FURNISHED TO THE TRADES RESPONSIBLE FOR INSTALLING THE CONNECTORS OR INSERTS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

STEEL FABRICATION: ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERRECTED IN ACCORDANCE WITH THE A.I.S.C. SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.

PIPE COLUMNS: SHALL CONFORM TO ASTM A53, GRADE B, UNLESS OTHERWISE NOTED ON PLANS.

STRUCTURAL TUBING: SHALL CONFORM TO ASTM A500, GRADE B, UNLESS OTHERWISE NOTED.

FIELD FOREMAN: THE FIELD FOREMAN RESPONSIBLE FOR THE FABRICATION AND ERECTION OF ALL STRUCTURAL STEEL SHALL HAVE A MINIMUM OF (3) YEARS EXPERIENCE IN THIS CAPACITY FOR THIS TYPE OF CONSTRUCTION.

STRUCTURAL TESTS AND INSPECTIONS REQUIRED FOR THIS PROJECT:

	YES	NO
1. REFER TO CHAPTER 17 OF THE 1997 UNIFORM BUILDING CODE FOR AMPLIFICATION OF THE FOLLOWING REQUIREMENTS. ALL SPECIAL INSPECTORS MUST SUBMIT FINAL REPORTS.	<input type="checkbox"/>	<input type="checkbox"/>
2. FOUNDATIONS:	<input type="checkbox"/>	<input type="checkbox"/>
A. COMPACTED FILL INCLUDING UTILITY TRENCHES.	<input type="checkbox"/>	<input type="checkbox"/>
B. VISUAL EXAMINATION & APPROVAL OF ALL FOUNDATION EXCAVATIONS.	<input type="checkbox"/>	<input type="checkbox"/>
C. EXPANSION INDEX EVALUATION OF PAD.	<input type="checkbox"/>	<input type="checkbox"/>
D. DRILLING OF CAISSONS.	<input type="checkbox"/>	<input type="checkbox"/>
3. CONCRETE:	<input type="checkbox"/>	<input type="checkbox"/>
A. CONTINUOUS INSPECTION X TEST CYLINDERS FOR CONCRETE OVER 2500 PSI.	<input type="checkbox"/>	<input type="checkbox"/>
B. PNEUMATICALLY PLACED CONCRETE-GUNITE & SHOTCRETE. (TEST SPECIMENS, PLACING OF CONCRETE)	<input type="checkbox"/>	<input type="checkbox"/>
C. BOLTS & EMBEDDED PLATES INSTALLED IN CONCRETE. (DURING INSTALLATION & PLACING OF CONCRETE)	<input type="checkbox"/>	<input type="checkbox"/>
4. REINFORCING STEEL:	<input type="checkbox"/>	<input type="checkbox"/>
A. PLACING OF REINFORCING.	<input type="checkbox"/>	<input type="checkbox"/>
B. PLACING OF STRESSING TENDONS.	<input type="checkbox"/>	<input type="checkbox"/>
C. SAMPLING & TESTING OF STEEL. (MILL REPORTS & IDENTIFICATION OF STEEL)	<input type="checkbox"/>	<input type="checkbox"/>
5. WELDING:	<input type="checkbox"/>	<input type="checkbox"/>
A. ALL STRUCTURAL FIELD WELDING. (INCLUDES DECKING & WELDED STUDS)	<input type="checkbox"/>	<input type="checkbox"/>
B. NON-DESTRUCTIVE TESTING OF MOMENT-RESISTING SPACE FRAMES.	<input type="checkbox"/>	<input type="checkbox"/>
C. STRUCTURAL LIGHT GAGE METAL FRAMING.	<input type="checkbox"/>	<input type="checkbox"/>
6. BOLTING:	<input type="checkbox"/>	<input type="checkbox"/>
A. HIGH STRENGTH BOLTING.	<input type="checkbox"/>	<input type="checkbox"/>
B. EXPANSION BOLTS IN CONCRETE OR MASONRY. (IF USED)	<input type="checkbox"/>	<input type="checkbox"/>
C. INSTALLATION OF EPDXY ANCHORED BOLTS, RODS, OR REBAR. (IF USED)	<input type="checkbox"/>	<input type="checkbox"/>
D. INSTALLATION OF ANCHORED BOLTS, THREADED RODS, OR EMBEDDED ITEMS. (IF USED)	<input type="checkbox"/>	<input type="checkbox"/>
7. MASONRY:	<input type="checkbox"/>	<input type="checkbox"/>
A. SAMPLING & TESTING OF MASONRY.	<input type="checkbox"/>	<input type="checkbox"/>
B. TESTING OF GROUT & MORTAR PRISMS.	<input type="checkbox"/>	<input type="checkbox"/>
C. CONTINUOUS INSPECTION.	<input type="checkbox"/>	<input type="checkbox"/>
D. COMPRESSION PRISMS	<input type="checkbox"/>	<input type="checkbox"/>
8. STRUCTURAL STEEL:	<input type="checkbox"/>	<input type="checkbox"/>
A. MILL REPORTS & IDENTIFICATION OF STEEL. (AFFIDAVIT OF COMPLIANCE)	<input type="checkbox"/>	<input type="checkbox"/>
B. SAMPLING & TESTING.	<input type="checkbox"/>	<input type="checkbox"/>
9. APPROVED FABRICATORS: (MUST SUBMIT CERTIFICATION OF COMPLIANCE)	<input type="checkbox"/>	<input type="checkbox"/>
A. FOR ALL OFFSITE FABRICATION SUCH AS STRUCTURAL STEEL, GLU-LAMS, PRECAST CONCRETE, ETC.	<input type="checkbox"/>	<input type="checkbox"/>
10. ALL TESTS & INSPECTIONS:	<input type="checkbox"/>	<input type="checkbox"/>
A. SHALL BE PERFORMED BY AN INDEPENDENT INSPECTION AGENCY. (APPROVED BY BUILDING DEPARTMENT)	<input type="checkbox"/>	<input type="checkbox"/>
B. JOB SITE VISITS BY THE STRUCTURAL ENGINEER <u>DO NOT</u> CONSTITUTE AN OFFICIAL INSPECTION.	<input type="checkbox"/>	<input type="checkbox"/>
C. COPIES OF TEST RESULTS SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER IN ADDITION TO OTHER NORMAL DISTRIBUTIONS.	<input type="checkbox"/>	<input type="checkbox"/>
NOTE: IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO SEE THAT THESE TEST AND INSPECTIONS ARE PERFORMED.	<input type="checkbox"/>	<input type="checkbox"/>



REVISIONS

7/29/02		
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CONSULTANT

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JOB# - 080116

BONAZZA-SANDHILL PARK
Concession Building

GENERAL NOTES

AUG 22 2002

OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

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LAS VEGAS, NEVADA 89101
PHONE: (702) 226-5535
FAX: (702) 388-2233
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OWNER	ALM
FILE	
DATE	8-16-02
SCALE	NONE
REV NO	02/29/07
CLYDRE NO	15026

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RCB-S1.0

REVISIONS BY: [REDACTED] DATE: [REDACTED] DRAWN BY: [REDACTED] CHECKED BY: [RE