

GENERAL NOTES

<p>A GENERAL</p> <p>1 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.</p> <p>2 DO NOT SCALE THE DRAWINGS.</p> <p>3 NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND THE TYPICAL DETAILS.</p> <p>4 ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: THE 1997 EDITION OF THE UNIFORM BUILDING CODE, AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS.</p> <p>5 SEE THE LANDSCAPE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: SIZES AND LOCATIONS OF CONCRETE CURBS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. FLOOR FINISHES. DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. HANDRAILS</p> <p>6 SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: PIPES, SLEEVES, TRENCHES, ETC., EXCEPT AS SHOWN OR NOTED. ELECTRICAL CONDUIT RUNS, BOXES AND SLABS. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOUNTS.</p> <p>7 THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.</p> <p>8 THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED, TO BRACING AND SHORING FOR LOADS DUE TO HYDROSTATIC, EARTH, WIND OR SEISMIC FORCES, CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.</p> <p>9 NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN THE STRUCTURAL MEMBERS.</p> <p>10 ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT.</p> <p>11 CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTH WORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, UTILITIES, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.</p>	<p>C FOUNDATION</p> <p>1 FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY: NINYO & MOORE, LAS VEGAS, NV. PROJECT NO. 300679-01 DATED JANUARY 8, 2001</p> <p>COPIES ARE AVAILABLE FOR REVIEW AT THE LANDSCAPE ARCHITECT'S OFFICE.</p> <p>2 FOOTINGS ARE DESIGNED BASED ON AN ALLOWABLE SOIL PRESSURE OF 2000 PSI</p> <p>3 CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE, ETC.</p> <p>4 EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN THE EXCAVATIONS ARE READY FOR INSPECTION. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE TO THE OWNER.</p> <p>5 ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.</p> <p>6 FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON THE DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE GEOTECHNICAL ENGINEER, FOOTING ELEVATIONS OR FOOTING DESIGNS WILL BE ALTERED BY CHANGE ORDER.</p> <p>7 FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING PERIMETER SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED.</p> <p>8 ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE REMOVED.</p>	<p>D CONCRETE CONTINUATION</p> <p>7 AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.</p> <p>8 CONCRETE MIXING OPERATIONS, ETC., SHALL CONFORM TO ASTM C94.</p> <p>9 PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.</p> <p>10 IF COLUMNS AND WALLS ARE PLACED WITH A FLOOR, TWO HOURS MUST ELAPSE BETWEEN END OF COLUMN OR WALL POUR AND BEGINNING OF THE FLOOR POUR.</p> <p>11 CLEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS:</p> <table style="margin-left: 40px; border-collapse: collapse;"> <tr> <td style="padding-left: 20px;">A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH</td> <td style="text-align: right; padding-left: 20px;">MINIMUM COVER, INCHES</td> </tr> <tr> <td></td> <td style="text-align: right;">3</td> </tr> <tr> <td style="padding-left: 20px;">B) CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BAR NO. 5 BAR AND SMALLER</td> <td style="text-align: right;">2 1 1/2</td> </tr> <tr> <td style="padding-left: 20px;">C) SLAB ON GRADE, 1 1/2 INCHES CLEAR FROM TOP.</td> <td></td> </tr> </table> <p>12 ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.</p> <p>13 PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 IN. CHAMFER, UNLESS OTHERWISE NOTED ON LANDSCAPE ARCHITECTURAL DRAWINGS.</p> <p>14 CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE A RESILIENT TILE FINISH SHALL BE APPROVED BY THE FINISH APPLICATOR BEFORE USE.</p>	A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	MINIMUM COVER, INCHES		3	B) CONCRETE EXPOSED TO EARTH OR WEATHER: NO. 6 THROUGH NO. 18 BAR NO. 5 BAR AND SMALLER	2 1 1/2	C) SLAB ON GRADE, 1 1/2 INCHES CLEAR FROM TOP.		<p>E REVIEW OF SPECIALTY ITEMS AND PRE-ENGINEERED ELEMENTS (CONT.)</p> <p>4 SUBMIT ONE (1) REPRODUCIBLE COPY, ONE WET SEALED COPY FOR THE STRUCTURAL ENGINEER OF RECORD'S FILE, AND ADDITIONAL COPIES AS IS NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTAL CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.</p> <p>5 THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING DETERMINATIONS:</p> <p>A) NECESSARY APPROVALS HAVE BEEN OBTAINED. B) THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED. C) THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND UNIFORM BUILDING CODE REQUIREMENTS. D) THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN. E) THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.</p> <p>6 THE STRUCTURAL ENGINEER OF RECORD WILL RELY UPON THE SPECIALTY ENGINEER'S SEAL AS CERTIFICATION THAT THE ITEMS DESIGNED BY THE SPECIALTY ENGINEER CONFORM TO THE CRITERIA SET FORTH IN THE CONTRACT DOCUMENTS AND APPLICABLE CODES AND STANDARDS INCORPORATED THEREIN BY REFERENCE.</p> <p>7 IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED BY THE STRUCTURAL ENGINEER OF RECORD THE SUBMITTAL WILL BE REJECTED.</p> <p>8 ONLY AT THE CLIENT'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEMS BE MADE BY THE ENGINEER OF RECORD.</p>
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<p>B SPECIAL INSPECTIONS</p> <p>1 SPECIAL INSPECTION SHALL BE REQUIRED FOR THE FOLLOWING TYPES OF WORK: CONCRETE WORK WITH STRENGTHS GREATER THAN 2500 PSI, EXCEPT FOR NONSTRUCTURAL CONCRETE SUCH AS SLAB ON GRADE.</p>	<p>D CONCRETE</p> <p>1 ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE', ACI 318, AND THE 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS', ACI 301, LATEST EDITIONS, WITH MODIFICATIONS AS NOTED ON THE DESIGN DRAWINGS OR SPECIFICATIONS.</p> <p>2 REINFORCED CONCRETE DESIGN IS BY THE ULTIMATE STRENGTH DESIGN METHOD.</p> <p>3 CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND SHALL BEAR THE WET SEAL OF A CIVIL ENGINEER LICENSED IN THE STATE OF NEVADA FOR REVIEW BY THE STRUCTURAL ENGINEER. THE MIX DESIGNS SHALL STATE THE PROJECT NAME AND THE INTENDED USAGE OF THE CONCRETE.</p> <p>4 SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS & TYPES:</p> <table style="margin-left: 40px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="text-align: left;">LOCATIONS IN STRUCTURE</th> <th style="text-align: left;">STRENGTH, PSI</th> <th style="text-align: left;">TYPE</th> </tr> </thead> <tbody> <tr> <td>ALL CONCRETE</td> <td>4500</td> <td>HARD ROCK</td> </tr> </tbody> </table> <p>5 PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE V IN CONTACT WITH SOIL AND TYPE II ELSEWHERE. CONCRETE EXPOSED TO SOILS CONTAINING SULFATES SHALL COMPLY WITH UBC SECTION 1904.3.</p> <p>6 CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618 CLASS F AND THE LOSS OF IGNITION SHALL BE LIMITED TO 2%. THE ADDITION RATE SHALL NOT EXCEED 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH CONFORMS TO THE ABOVE CRITERIA.</p>	LOCATIONS IN STRUCTURE	STRENGTH, PSI	TYPE	ALL CONCRETE	4500	HARD ROCK	<p>E REVIEW OF SPECIALTY ITEMS AND PRE-ENGINEERED ELEMENTS</p> <p>1 SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/BUILD ELEMENTS ARE THOSE ITEMS WHICH ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER, OR INSTALLER. SEE CONCRETE NOTES FOR MIX DESIGN REQUIREMENTS.</p> <p>2 SUBMITTAL REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD OR THE BUILDING DEPARTMENT:</p> <p>A) STAIRS, HANDRAILS, AND GUARDRAILS. B) SUPPORT AND ANCHORAGE OF MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT AND COMPONENTS.</p> <p>3 SUBMITTAL SHALL INCLUDE:</p> <p>A) CALCULATIONS, PREPARED BY A LICENSED ENGINEER LAWFULLY ELIGIBLE TO DESIGN THE ELEMENT OR COMPONENT (THE SPECIALTY ENGINEER) SEALED IN ACCORDANCE WITH STATE LAW. B) A DIAGRAM SHOWING LOAD MAGNITUDES AND LOCATIONS, SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS - THAT ARE APPLIED TO THE PRIMARY STRUCTURE, PREPARED BY THE SPECIALTY ENGINEER AND SEALED IN ACCORDANCE WITH STATE LAW. C) ERECTION OR DESIGN DRAWINGS AS NECESSARY TO DESCRIBE THE SYSTEM OR COMPONENT AND ITS CONNECTION TO THE PRIMARY STRUCTURE WITH THE SPECIALTY ENGINEER'S SHOP DRAWING STAMP OR SEAL, AS IS APPROPRIATE, THE SHOP DRAWING STAMP OF THE ENGINEER, IF ANY, RESPONSIBLE FOR SPECIFYING THE ITEM, AND THE ARCHITECT'S STAMP INDICATING HIS REVIEW.</p>	<p>F REINFORCING STEEL (FOR CONCRETE)</p> <p>1 ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318) AND THE 'MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION' BY CRSI AND WCSI, AS MODIFIED BY THE PROJECT DRAWINGS AND SPECIFICATIONS.</p> <p>2 DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60, EXCEPT TIES, STIRRUPS AND REINFORCING BARS IN NON-STRUCTURAL CONCRETE SUCH AS SLABS ON GRADE, WHICH MAY BE GRADE 40, UNLESS NOTED OTHERWISE.</p> <p>3 WELDING OF REINFORCING SHALL BE WITH LOW HYDROGEN ELECTRODES IN CONFORMANCE WITH 'RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, ETC.', AMERICAN WELDING SOCIETY, AWS D1.4.</p> <p>4 ALL REINFORCING BAR BENDS SHALL BE MADE COLD.</p> <p>5 SPLICES SHALL BE MADE ONLY AS AND WHERE INDICATED ON THE STRUCTURAL DRAWINGS.</p> <p>6 DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE, SPACING AND NUMBER AS THE SPECIFIED VERTICAL REINFORCING, U.N.O.</p> <p>7 ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION OCCURS.</p>		
LOCATIONS IN STRUCTURE	STRENGTH, PSI	TYPE									
ALL CONCRETE	4500	HARD ROCK									

DRAWING LIST

L10.3	GENERAL NOTES
L10.4	FOUNDATION PLAN AND SECTIONS
L10.5	SECTIONS AND DETAILS



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 GENERAL NOTES

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DRAWN: CMR
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 DATE: 3-12-01
 SCALE:
 SHEET NO: 01.15301.16
 ELEVATION: 650.64
 62 OF 90
 SHEET NO: L10.3

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