GENERAL NOTES

GENERAL REQUIREMENTS

1. THE CONTRACTOR SHALL EXAMINE THE STRUCTURAL DRAWINGS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK.

2. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

3. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL SITE CONDITIONS AND DIMENSIONS. HE SHALL NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.

4. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE STRUCTURAL ENGINEER OF ANY CONDITION WHICH IN HIS OPINION MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS TO THE STRUCTURE.

5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT HIS WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. AS A PART OF HIS RESPONSIBILITY, THE GENERAL CONTRACTOR SHALL PROVIDE THE SERVICES OF A LICENSED STRUCTURAL ENGINEER TO DESIGN AND SUPERVISE ANY SCAFFOLDING FOR HIS WORKMEN AND SHORING OF FORMS AND ELEMENTS OF THE CONSTRUCTION AFFECTED BY HIS WORK.

6. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE UNIFORM BUILDING CODE, 1985, AND ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY PORTION OF THE WORK.

7. SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE THE NOTES, DRAWINGS, AND/OR SPECIFICATIONS DIFFER, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

8. REFER TO THE ARCHITECTURAL DRAWINGS FOR INFORMATION NOT COVERED BY THESE GENERAL NOTES OR THE STRUCTURAL DRAWINGS.

FOUNDATIONS & EXCAVATIONS

1. FOOTING ELEVATIONS SHOWN ON PLANS ARE FOR ESTIMATING PURPOSES ONLY AND SHALL BE VERIFIED IN THE FIELD.

2. ALL FOOTINGS SHALL REST ON MATERIAL CAPABLE OF SUPPORTING 2000 P.S.F. MINIMUM WITHOUT SIGNIFICANT SETTLEMENT.

3. A SOILS ENGINEER SHALL INSPECT ALL FOOTING EXCAVATION AND FILLS TO VERIFY DEPTHS AND SOIL BEARING CAPACITY PRIOR TO PLACEMENT OF FORMS AND/OR REINFORCING STEEL.

4. FOR SOIL INFORMATION REFER TO FOUNDATION INVESTIGATION BY FOX CONSULTING ENGINEERS AND GEOLOGISTS, PROJECT NO. 129760.0, DATED APRIL 16, 1985.

5. ALL EXCAVATIONS SHALL BE INSPECTED BY A SOILS ENGINEER, AND SLOPES SHORED OR FLATTENED IF SO DIRECTED BY HIM.

6. ALL BACKFILL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY (ASTM D1557) UNDER THE SUPERVISION OF A SOILS ENGINEER.

SAND

1. ALL SAND UNDER CONCRETE SLABS ON GRADE SHALL BE CLEAN, COARSE SAND, AND SHALL HAVE 16% TO 20% MOISTURE CONTENT BY VOLUME AT TIME OF PLACING CONCRETE.

GRAVEL

1. ALL GRAVEL SHALL CONFORM TO CLARK COUNTY TYPE II SPECIFICATIONS UNLESS NATURAL MATERIAL IS APPROVED IN WRITING BY THE SOILS ENGINEER. SEE FOUNDATION NOTES FOR COMPACTION.

CONCRETE

1. CONCRETE USED IN THE WORK SHALL HAVE THE FOLLOWING MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT AGE 28 DAYS:

A.	MISC. FOOTINGS	3,000 P.S.I.
B.	SLABS ON GRADE	3,000 P.S.I.
C.	STRUCTURAL SLABS	4,000 P.S.I.

2. ALL CONCRETE SHALL BE STONE CONCRETE UTILIZING AGGREGATE CONFORMING TO ASTM C33. CEMENT SHALL BE TYPE V CONFORMING TO ASTM C150.

3. ALL CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED INDEPENDENT TESTING LABORATORY WHO SHALL SUBMIT COPIES OF THE DESIGN FOR APPROVAL, AND SHALL IN ADDITION SUBMIT COPIES OF 7 AND 28 DAY CYLINDER TEST RESULTS TO THE ARCHITECT AND BUILDING DEPARTMENT, AND OBTAIN APPROVAL PRIOR TO USE.

4. BEFORE CONCRETE IS PLACED THE CONTRACTOR SHALL COORDINATE AND CHECK WITH ALL TRADES TO INSURE THE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, INSERTS, DEPRESSIONS, ETC., RELATING TO THE WORK.

5. MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS:

A.	CONCRETE AGAINST EARTH (UNFORMED)	3"
B.	CONCRETE AGAINST EARTH (FORMED)	2"
C.	CONCRETE SLAB	1"

6. ALL CONCRETE DROPPED MORE THAN 3 FEET SHALL BE PLACED WITH A TREMIE OR PUMPED.

7. CONSTRUCTION OR COLD JOINTS OTHER THAN THOSE SHOWN IN THE PLANS SHALL NOT BE MADE WITHOUT PRIOR APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.

8. ALL CONCRETE SHALL BE POURED WITH A SLUMP NOT TO EXCEED 4".

9. AN INITIAL CURING OF CONCRETE SHALL IMMEDIATELY FOLLOW THE FINISHING OPERATION. THE CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST OVERNIGHT BY USE OF ANY OF THE FOLLOWING:

   A. PONDING OR CONTINOUS SPRINKLING
   B. ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET.
   C. CURING COMPOUNDS APPLIED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE CURING COMPOUND MANUFACTURER.

   IMMEDIATELY FOLLOWING THE INITIAL CURING AND BEFORE THE CONCRETE HAS DRIED, ADDITIONAL CURING SHALL BE ACCOMPLISHED BY:

   A. CONTINUING THE METHOD USED FOR THE INITIAL CURING
   B. WATERPROOF PAPER
   C. OTHER MOISTURE-RETAINING COVERINGS AS APPROVED

CONCRETE BLOCK MASONRY

1. CONCRETE BLOCK UNITS SHALL BE LIGHT WEIGHT, 1500 PSI GRADE "N" UNITS CONFORMING TO ASTM C90. REFER TO ARCHITECTURAL DRAWINGS AND/OR SPECIFICATIONS FOR BLOCK SIZE, FACE, COLOR, JOINTING, ETC.

2. BLOCK UNITES SHALL BE FREE OF ALL SUBSTANCES WHICH MIGHT IMPAIR THE BOND OF THE BLOCK TO THE MORTAR AND GROUT.

3. MORTAR SHALL BE TYPE "S" MIX CONSISTING OF ONE PART CEMENT AND THREE PARTS SAND WITH 1/4 TO 1/2 PART LIME.

4. GROUT SHALL CONSIST OF ONE PART CEMENT, THREE PARTS SAND WITH 1/10 TO 1/15 PART LIME. GROUT SPACE MORE THAN TWO INCHES IN WIDTH MAY HAVE IN ADDITION TO THE SAND NOT MORE THAN TWO PARTS PEA GRAVEL.

5. CEMENT FOR MORTAR AND GROUT SHALL BE A LOW ALKALI TYPE CONFORMING TO ASTM C150.

6. CEMENT USED IN CONCRETE MASONRY MATERIALS BELOW GRADE SHALL BE TYPE V.

7. MORTAR AND GROUT SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH AT AGE 28 DAYS OF 2000 P.S.I.

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE. (GRADE 40 MAY BE USED FOR #4 BARS OR LESS) WELDED WIRE FABRIC SHALL BE MADE OF COLD DRAWN WIRE AND SHALL CONFORM TO ASTM A185.

2. ALL BARS SHALL BE FREE OF RUST, GREASE, MILL SCALE, OR ANY MATERIAL WHICH MIGHT AFFECT ITS BOND TO CONCRETE.

3. ALL BAR BENDS MUST BE MADE COLD. REBENDING OF BARS WILL NOT BE PERMITTED.

4. BENDING, PLACING, SPACING, CONCRETE PROTECTIVE COVER, SPLICING, AND ALL OTHER DETAILS OF REINFORCEMENT SHALL CONFORM TO THE "BUILDING CODE REQUIREMENT FOR REINFORCED CONCRETE" A.C.I. 318-LATEST EDITION, AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" A.C.I. 315-LATEST EDITION.

5. ALL TESTING OF REINFORCING STEEL SHALL BE AS REQUIRED BY LOCAL BUILDING CODE.

6. REINFORCING STEEL PLACING DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION OR PLACING. APPROVED DRAWINGS ARE REQUIRED AT THE JOB SITE ONE DAY PRIOR TO PLACING REINFORCING.

7. NO WELDING OF REINFORCING STEEL SHALL BE PERMITTED.

STEEL

1. STEEL, ROLLED SECTIONS, AND PLATE USED IN THE WORK SHALL CONFORM TO ASTM A36.

2. PIPE SHALL BE WELDED SEAMLESS CONFORMING TO ASTM A53, GRADE "B".

3. ALL STEEL, EXCEPT THAT PORTION TO BE FIELD WELDED, SHALL RECEIVE ONE SHOP COAT OF PRIMER PAINT. SHOP PAINT SHALL BE ZINC CHROMATE OR APPROVED EQUAL. UNPAINTED EXPOSED AREAS SHALL BE FIELD PRIMED UTILIZING SAME PAINT AS SHOP PRIMER. REFER TO SPECIFICATIONS FOR FINAL PAINT COAT.

4. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. ANY FABRICATION PERFORMED PRIOR TO RECEIPT OF APPROVED SHOP DRAWINGS SHALL BE PERFORMED AT THE CONTRACTOR'S OWN RISK. FINAL DIMENSIONS USED FOR FABRICATION OF ALL STEEL SHALL BE THE TRUE FIELD DIMENSIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY THESE DIMENSIONS TO THE STEEL FABRICATORS.

5. ALL BOLTS SHALL CONFORM TO ASTM A307.

WELDING

1. ALL WELDING SHALL BE PERFORMED BY WELDERS HOLDING CURRENT CERTIFICATES ACCEPTABLE TO THE ENGINEER AND THE REGULATING BUILDING DEPARTMENT.

2. ALL WELDING SHALL BE PERFORMED USING THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE "CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

3. ALL WELDS SHALL UTILIZE LOW HYDROGEN ELECTRODES (E70XX FOR STEEL, OR OTHER A.W.S. APPROVED EQUIVALENT METHODS.

4. ALL WELDS SHALL BE CLEANED OF SLAG TO PERMIT VISUAL INSPECTION, AND GROUND SMOOTH IF EXPOSED TO VIEW.

9-2-11

CITY OF LAS VEGAS NEVADA

City of Las Vegas, Nevada
Department of Design and Development
Thomas B. Graham, AICP, R.A. Director

SCALE:
DATE:
DESIGN BY:
DRAWN BY:
REVISIONS
DATE

ANGEL PARK PHASE III B
GENERAL NOTES

PROJECT NO.
WU 6292
DRAWING NO.
650.14-V10
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