

STRUCTURAL GENERAL NOTES

GENERAL

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| 1 | THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. |
| 2 | DO NOT SCALE THE DRAWINGS. |
| 3 | NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES AND THE TYPICAL DETAILS. |
| 4 | ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:
THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE, AND OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK; AND THOSE CODES AND STANDARDS SPECIFIED IN THESE NOTES AND IN THE PROJECT SPECIFICATIONS. |
| 5 | SEE THE ARCHITECTURAL DRAWINGS FOR POST BASE AND POLE FOUNDATION LOCATION. |
| 6 | SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
PIPES, HANGERS, TRENCHES, DUCT PENETRATION ETC., EXCEPT AS SHOWN OR NOTED.
ELECTRICAL CONDUIT RUNS
CONCRETE INSERTS FOR ELECTRICAL OR MECHANICAL FIXTURES.
SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOUNTS. |
| 7 | THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. |
| 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 VIBRATION FORCES, CONSTRUCTION EQUIPMENT, ETC. OBSERVATION SHALL BE MADE BY THE STRUCTURAL ENGINEER. THERE SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS. |
| 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. |
| 10 | ALL SPECIFICATIONS AND CODES NOTED SHALL BE THE LATEST APPROVED EDITIONS AND REVISIONS BY THE GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THIS PROJECT. |
| 11 | CONTRACTOR SHALL INVESTIGATE THE SITE DURING CLEARING AND EARTH WORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES SUCH AS CESSPOOLS, OISTERNS, FOUNDATIONS, UTILITIES, ETC. IF ANY SUCH STRUCTURES ARE FOUND, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY. |
| 12 | SHOP DRAWINGS SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW SHALL CONSIST OF AT LEAST TWO SETS, ONE SET TO BE REVIEWED FOR OUR RECORD. |
| 13 | STRUCTURAL DESIGN CRITERIA
a) FLOOR LIVE LOADS - NOT APPLICABLE
b) FLOOR DEAD LOADS - NOT APPLICABLE
c) ROOF SNOW LOAD - NOT APPLICABLE
d) WIND DESIGN DATA
V=120 MPH
BASIC WIND SPEED (3 SECOND GUST)
RISK CATEGORY
WIND EXPOSURE
INTERNAL PRESSURE COEFFICIENT
e) EARTHQUAKE DESIGN DATA
SEISMIC DESIGN CATEGORY
RISK CATEGORY
SEISMIC RESPONSE ACCELERATION
SITE CLASS
SPECTRAL RESPONSE COEFFICIENT
SDS=0.440g
SD1=0.233g
SDC=D
SEISMIC DESIGN CATEGORY
f) FLOOR LOADS - NOT APPLICABLE
g) SPECIAL LOADS - NONE |
| 14 | THE CONSTRUCTION MATERIALS TESTING LABORATORY MUST BE APPROVED BY THE CLARK COUNTY, FOR TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT. |

B FOUNDATION

- FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT
PREPARED BY: GRISHAM CONSULTING SERVICES
REPORT CS-12038
DATED 8/2/2012
- COPIES ARE AVAILABLE FOR REVIEW AT THE ARCHITECT'S
OFFICE.
- FOOTINGS ARE DESIGNED BASED ON A NET ALLOWABLE SOIL
PRESSURE OF 1500 PSF.
- CONTRACTOR SHALL PROVIDE FOR PROPER DEWATERING OF
EXCAVATIONS FROM SURFACE WATER, GROUND WATER, SEEPAGE,
Etc.
- CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION
OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED TO
SAFELY AND ADEQUATELY RETAIN THE EARTH BANKS AND ANY
EXISTING STRUCTURE.
- EXCAVATIONS FOR FOOTINGS SHALL BE APPROVED BY THE
GEOTECHNICAL ENGINEER BEFORE PLACING THE CONCRETE AND
REINFORCEMENT. THE EXCAVATIONS ARE READY FOR INSPECTION
BY THE GEOTECHNICAL ENGINEER SHALL SUBMIT A LETTER OF COMPLIANCE
TO THE OWNER.
- 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, THE CONTRACTOR'S FOUNDATION OR FOOTING DESIGNS WILL BE
ALTERED BY CHANGE ORDER.
- ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE
WITH THE NEW CONSTRUCTION SHALL BE REMOVED.

C REINFORCING STEEL FOR CONCRETE

- 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.
- 2 DEFORMED REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60, EXCEPT TIES, WHICH SHALL CONFORM TO THE REQUIREMENTS OF ASTM A618 GRADE 40. ALL REINFORCING BARS IN THE STRUCTURAL CONCRETE SUCH AS SLABS ON GRADE, WHICH MAY BE GRADE 40, UNLESS NOTED OTHERWISE.
- 3 ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 4 SPLICES SHALL BE MADE ONLY AS AND WHERE INDICATED ON THE STRUCTURAL DRAWINGS.

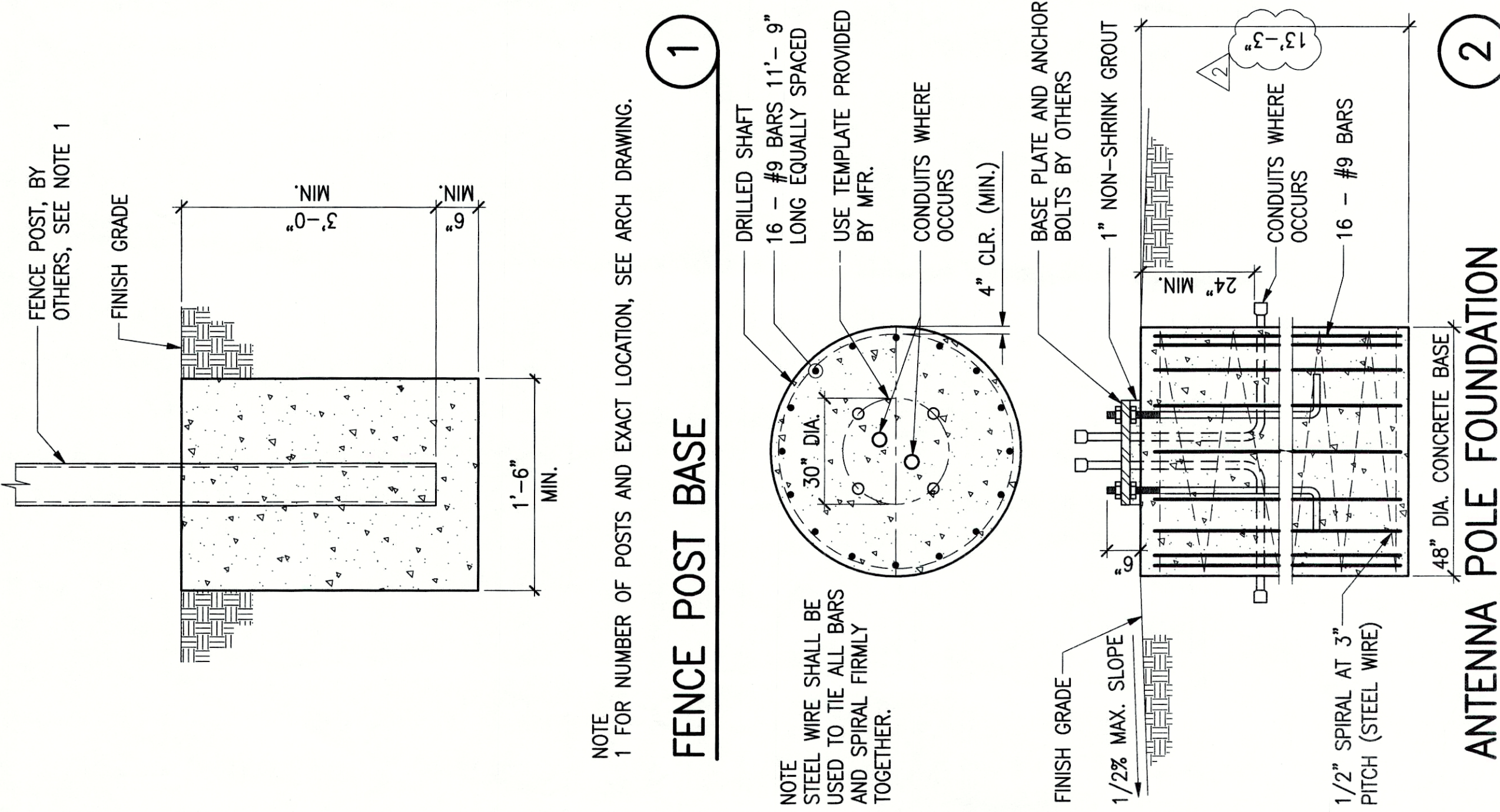
D CONCRETE

- | | | |
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| 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. | |
| 2 | 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 STATE BY THE STRUCTURAL ENGINEER. THE MIX DESIGNS SHALL REFLECT THE PROJECT NAME AND THE INTENDED USAGE OF THE CONCRETE. | |
| 3 | SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS AND TYPES: | |
| | LOCATIONS IN STRUCTURE | STRENGTH, PSI |
| | FOOTINGS | 4500 |
| | PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE I IN CONTACT WITH SOIL AND TYPE II ELSEWHERE. CONCRETE EXPOSED TO SOILS CONTAINING SULFATES SHALL COMPLY WITH IBC SECTION 1904.1. | HARD ROCK |
| 5 | CONCRETE MIXES MAY CONTAIN FLY ASH. THE FLY ASH SHALL CONFORM TO ASTM C618, CLASS F, TYPE II. THE FLY ASH PORTION SHALL BE LIMITED TO 2% OF THE ADDITION RATE. SHALL NOT BE LESS THAN 15% OF THE CEMENT WEIGHT. THE CONTRACTOR SHALL SUBMIT ALL CERTIFICATES SHOWING THE FLY ASH CONFORMS TO THE ABOVE CRITERIA. | |
| 6 | AGGREGATE FOR HARD ROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C33 AND PROJECT SPECIFICATIONS. AGGREGATES MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER. | |
| 7 | GROUT UNDER BASEPLATES. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 7500 PSI AT 28 DAYS. FLY ASH WILL NOT BE PERMITTED IN GROUT. | |
| 8 | CONCRETE MINING OPERATIONS, ETC., SHALL CONFORM TO ASTM C94. | |
| 9 | PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 304 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED. | |
| 10 | BEAR COVERAGE OF CONCRETE OVER REINFORCING BARS SHALL BE AS FOLLOWS: | |
| | a) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH | 3 INCHES |
| 11 | ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. | |
| 12 | MECHANICAL PIPES AND ELECTRICAL CONDUITS WHICH PASS THROUGH SLAB ON GRADE, CONCRETE ON STEEL DECK, FRAMED CONCRETE FLOORS AND WALLS DO NOT REQUIRE SLEEVES, UNLESS OTHERWISE INDICATED ON THE PROJECT SPECIFICATIONS. WHEN REQUIRED, INSTALL SLEEVES BEFORE PLACING CONCRETE. DO NOT CUT ANY REINFORCING WHICH MAY INTERFERE WITH SLEEVE PLACEMENT. CORING OPENINGS IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS. NO PIPES OR ELECTRICAL CONDUIT SHALL PASS THROUGH CONCRETE BEAMS OR COLUMNS UNLESS SPECIFICALLY DETAILLED. | |
| 13 | MODULUS OF ELASTICITY OF CONCRETE WHEN TESTED IN ACCORDANCE WITH ASTM C469, SHALL BE AT LEAST THE VALUE GIVEN BY THE EQUATIONS IN SECTION 8.5.1 OF ACI 318 FOR THE SPECIFIED CONCRETE 28-DAY STRENGTH. | |

SPECIAL INSPECTION/QAA IS REQUIRED

1. **Postulated analysis (i.e. City of Las Vegas, staff performed)** (expansion anchors and/or concrete splices and/or epoxy anchors) in reinforced concrete beams and/or columns shall be designed and analyzed in accordance with the provisions of ACI 308R-02 and ACI 308.1R-02. **Approved** on 10/22/2020 at 10:55 a.m. A post-tensioned concrete expansion is scheduled at 11:00 a.m. on 10/22/2020.
2. **Other** (\$100.00 per hour for design scheduled 10/22/2020 with one (1) hour minimum.
3. **Other** (\$100.00 per hour for design scheduled 10/22/2020 with one (1) hour minimum.
4. **Other** Express Inspections and changed in three business sessions (10/22/2020) per requests scheduled inspection with two (2) hour minimum for each inspection. **Approved** on 10/22/2020 at 10:55 a.m.
5. **Approved** **and fast-track** **Inspection** at **Las Vegas, Nevada** (i.e. City of Las Vegas, staff performed) (expansion anchors and/or concrete splices and/or epoxy anchors) in reinforced concrete beams and/or columns shall be designed and analyzed in accordance with the provisions of ACI 308R-02 and ACI 308.1R-02. **Approved** on 10/22/2020 at 10:55 a.m.
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FENCE POST BASE



ANTENNA POLE FOUNDATION

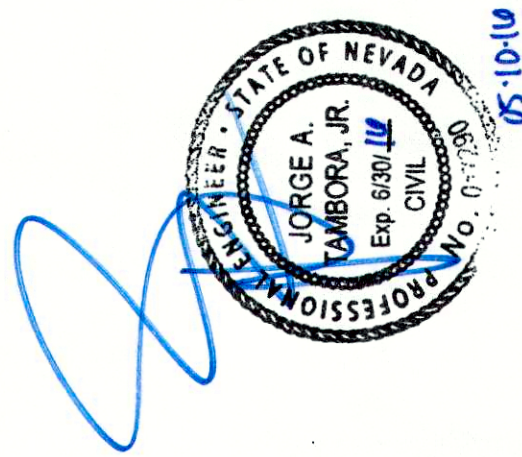
	5/11/16	2
CITY COMMENTS		
	3/28/16	1
CITY COMMENTS		
DESCRIPTION	DATE	REV

POLE SECTION AND GENERAL NOTES

DATE	03.07.2016
DRAWN BY	MGT
ENGINEER	IP
JOB NO.	15124

AS Built
S2.01

Not a permit to Violate any Ordinance
 Do not include Electrical, Mechanical,
 Plumbing, or other trades
 NMMA MAY 11 2013
 City of Las Vegas Nevada
 Building Safety Dept
 SP/10302000000000
 PLANS APPROVED



RECEIVED
MAY 11 '16 3 17 3 10
CITY OF LAS VEGAS