

**GENERAL REQUIREMENTS**

**DRAWINGS**  
THESE DRAWINGS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEERS IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKERS WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

**MISCELLANEOUS ITEMS**  
CALCULATION AND DESIGN OF MISCELLANEOUS NON-STRUCTURAL ITEMS, SUCH AS STAIRS, RAILINGS, NON-STRUCTURAL WALLS AND PREFABRICATED STRUCTURAL ITEMS, SUCH AS FLOOR AND ROOF TRUSSES, ARE NOT INCLUDED AND ARE TO BE PROVIDED BY OTHERS UNLESS SPECIFICALLY NOTED ON THESE DRAWINGS.

**CONSTRUCTION MEANS AND METHODS**  
THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DESIGN AND PROVIDE ADEQUATE SHORING, BRACING, FORM-WORK, ETC., AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY (INCLUDING UTILITIES) DURING CONSTRUCTION. CONSTRUCTION MATERIALS SHALL BE PLACED ON THE STRUCTURE SUCH THAT THE DESIGN LOADS ARE NOT EXCEEDED.

**DIMENSIONS, INSERTS AND OPENINGS**  
THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING OF ANY DISCREPANCIES OR OMISSIONS NOTED ON THE DRAWINGS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED BEFORE START OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, WHERE DISCREPANCIES OCCUR IN THESE DRAWINGS, NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.

CONTRACTOR SHALL ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.

**STANDARDS**  
WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE EDITION REFERENCED IN THE GOVERNING BUILDING CODE.

**TYPICAL DETAILS AND NOTES**  
TYPICAL DETAILS AND NOTES SHALL APPLY, THOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON PLANS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

**SHOP DRAWINGS**  
SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS. SHOP DRAWINGS ARE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS. REVIEW DOES NOT INDICATE THAT THE SHOP DRAWINGS ARE CORRECT OR COMPLETE. RESPONSIBILITY FOR CORRECTNESS SHALL REST WITH THE CONTRACTOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS SHALL BE CLOUDED. ANY OF THE AFOREMENTIONED SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW UNLESS SPECIFICALLY NOTED ACCORDINGLY. THE SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE THE ORIGINAL CONTRACT DRAWINGS. ANY ENGINEERING PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL OF AN APPROPRIATELY REGISTERED ENGINEER. ENGINEERING SYSTEM SOLUTIONS SHALL NOT BE RESPONSIBLE FOR THE ADEQUACY OF ENGINEERING DESIGNS PERFORMED BY OTHERS. FIVE WORKING DAYS SHALL BE ALLOWED FOR THE ENGINEER'S REVIEW. CONTRACTOR SHALL PROVIDE A COPY OF EACH SUBMITTAL FOR ENGINEERING SYSTEM SOLUTIONS RECORDS.

SHOP DRAWINGS SHALL REFERENCE DATE AND DELTA (IF ANY) OF CONTRACT DRAWINGS.

**MOLD**  
MOLD CONCERNS AND PREVENTION IS OUT OF ENGINEERING SYSTEM SOLUTIONS SCOPE OF SERVICES. ENGINEERING SYSTEM SOLUTIONS SHALL BE HELD HARMLESS, TO THE EXTENT OF THE LAW, FOR ALL MOLD PREVENTION AND MOLD RELATED CONCERNS.

**DEFERRED SUBMITTALS**

**SPECIALTY ITEMS**  
PREFABRICATED OR SPECIALTY ITEMS AND THEIR COMPONENTS, WHICH ARE INDICATED BY THE STRUCTURAL DRAWINGS TO BE DESIGNED BY OTHERS, MAY BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AS A DEFERRED SUBMITTAL PROVIDED THAT SUCH SUBMITTAL IS AUTHORIZED BY THE AUTHORITY HAVING JURISDICTION. DEFERRED SUBMITTALS REQUIRED TO BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- CONCRETE MIX DESIGN
- REBAR PLACEMENT SHOP DRAWINGS

**PREPARATION**  
ALL DEFERRED SUBMITTALS SHALL INCLUDE CALCULATIONS AND DRAWINGS PREPARED IN ACCORDANCE WITH ALL APPLICABLE DESIGN CODES AND STAMPED BY AN APPROPRIATELY LICENSED PROFESSIONAL ENGINEER. SUBMITTALS SHALL SHOW LOCATION AND MAGNITUDE OF LOADS, SIZE AND CONFIGURATIONS OF MEMBERS, AND COMPATIBILITY WITH THE PRIMARY STRUCTURAL SYSTEM.

**REVIEW**  
DEFERRED SUBMITTAL ITEMS SHALL BE REVIEWED IN ACCORDANCE WITH STANDARD SHOP DRAWING REVIEW PROCEDURES AS DESCRIBED IN THE GENERAL REQUIREMENTS SECTION OF THE GENERAL STRUCTURAL NOTES.

**SPECIAL INSPECTIONS**

A SPECIAL INSPECTOR SHALL BE PROVIDED TO OBSERVE WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE INSPECTOR SHALL SUBMIT A SIGNED STATEMENT TO THE OWNER, CONTRACTOR, AND ENGINEER INDICATING THE SPECIAL INSPECTION WORK WAS IN COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

SPECIAL INSPECTIONS SHALL BE PROVIDED FOR THE FOLLOWING WORK:

- BACKFILL
- REINFORCEMENT
- CONCRETE

**BASIS FOR DESIGN**

GOVERNING BUILDING CODE 2018 IBC (W/ SOUTHERN NEVADA AMENDMENTS)

**DEAD LOAD**  
STRUCTURE SELF-WEIGHT CONCRETE 150 PCF  
POLE AND EQUIP SELF WT

**SOILS**  
SOIL BEARING PRESSURE (D-1) 2000 PSF  
MINIMUM EMBEDMENT DEPTH 12 INCHES  
LATERAL BEARING PRESSURE 300 PCF  
COEFFICIENT OF FRICTION FOR LATERAL SLIDING RESISTANCE 0.37

**SEISMIC**  
SITE CLASS D  
SEISMIC DESIGN CATEGORY D  
Ss 0.572g  
SDS (SHORT PERIOD) 0.512g

**WIND**  
BASIC WIND SPEED 99 MPH  
EXPOSURE C

**FOUNDATION**

**DESIGN RECOMMENDATIONS**  
FIRM: NINYO & MOORE; REPORT NO.: 30438001; DATE: 24 DEC 2018

**CONSTRUCTION**  
ALL SITE PREPARATION, GRADING, COMPACTION TESTS, INSPECTIONS, ETC. SHALL BE FOLLOWED WITH STRICT ADHERENCE AND SHALL BE COMPLETED PRIOR TO ANY CONCRETE PLACEMENT. SEE ACI 325.3 FOR FURTHER REQUIREMENTS.

ENGINEERING SYSTEM SOLUTIONS ASSUMES NO LIABILITY FOR GROUNDWATER OR OTHER MEANS OF FLOODING.

**FOOTING EMBEDMENT**  
ALL FOOTINGS SHALL EXTEND BELOW GRADE THE MINIMUM EMBEDMENT DEPTH AS NOTED ON THE FOUNDATION PLAN.

**GRADE IS DEFINED AS FOLLOWS**  
THE LOWEST OF THE FOLLOWING (BEFORE LANDSCAPING):

- BUILDING PAD SUBGRADE
- LOWEST SURROUNDING SOIL GRADE WITHIN 5'-0" OF BUILDING

**SLAB ON GRADE**  
SUPPORT PER THE GEOTECHNICAL RECOMMENDATIONS.

FOLLOW ACI 302.1 RECOMMENDATIONS FOR PLACING CONCRETE, CURING, AND QUALITY CONTROL.

**BACKFILL**  
BACKFILL SHALL NOT BE PLACED AGAINST EXTERIOR WALLS UNTIL THE INTERIOR FLOOR SYSTEM CAN ADEQUATELY BRACE THE WALL.

BACKFILL AND RECOMPACT ALL TRENCHES PER THE GEOTECHNICAL REPORT. (MIN 90% DRY DENSITY)

**DRAINAGE**  
PROVIDE ADEQUATE DRAINAGE AWAY FROM THE STRUCTURE.

**REINFORCING STEEL**

REINFORCING BARS SHALL BE DEFORMED, EXCEPT AS NOTED IN ACI 301.

USE OF EPOXY-COATED BARS IS NOT PERMITTED.

**GRADE**  
ALL WELDED BARS SHALL BE GRADE 60, REFER TO ASTM STANDARD A706.

#4 BARS OR LARGER SHALL BE GRADE 60, REFER TO ASTM STANDARD A615.

#3 BARS OR SMALLER SHALL BE GRADE 40, REFER TO ASTM STANDARD A615.

**CLEAR COVER**  
ALL DIMENSIONS NOT NOTED AS "CLR" ARE TO THE CENTER OF THE BAR.

FOR CLEAR COVER REQUIREMENTS REFER TO TYPICAL DETAIL "MINIMUM COVER FOR NON-PRESTRESSED STEEL".

**REINFORCEMENT SUPPORTS**  
REINFORCEMENT SUPPORT SHALL BE PROVIDED TO MAINTAIN CLEAR DIMENSIONS SHOWN ON PLANS AND SHALL CONFORM TO ONE OF THE FOLLOWING SUPPORT TYPES: WIRE, COATED WIRE, PRECAST CONCRETE, PLASTIC.

REINFORCEMENT SUPPORT SHALL COMPLY WITH ACI 301.

**LAP SPlicing**  
UNLESS NOTED OTHERWISE TACK WELDING OF REINFORCING BARS NOT ALLOWED.

FOR LAP LENGTH REQUIREMENTS REFER TO TYPICAL DETAIL "LAP LENGTH SCHEDULE".

**MECHANICAL SPLICE COUPLERS**  
MECHANICAL SPLICE COUPLERS SHALL HAVE CURRENT ICC-ES APPROVAL AND SHALL BE CAPABLE OF DEVELOPING 125% OF THE STRENGTH OF THE BAR.

**WELDING**  
WELDING OF REINFORCING BARS, METAL INSERTS, AND CONNECTIONS SHALL CONFORM TO AWS D1.4. BENDING SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE UN-BENT AND RE-BENT.

**BENDING**  
BENDING SHALL BE MADE ONLY AT LOCATIONS SHOWN ON PLANS OR DETAILS. ALL REINFORCING SHALL BE BENT COLD. BARS SHALL NOT BE UNBENT AND REBENT. #5 BAR AND SMALLER MAY BE COLD FIELD BENT. #6 BAR AND LARGER SHALL NOT BE FIELD BENT WITHOUT PRIOR APPROVAL FROM ENGINEER.

**PLACING AND DETAIL**  
ALL BARS SHALL BE DETAILED AND PLACED PER CRSI SPECIFICATIONS AND HANDBOOK. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

**CONCRETE**

**MATERIAL**  
MINIMUM 28 DAY COMPRESSIVE STRENGTH IS 4000 PSI

CEMENT SHALL BE TYPE V.

MAXIMUM W/C RATIO SHALL BE 0.45.

CONCRETE SLUMP SHALL BE 4-6 INCHES.

ALL CONCRETE SHALL BE NORMAL WEIGHT OF 145 POUND PER CUBIC FOOT UNLESS NOTED OTHERWISE, USING HARD ROCK AGGREGATES CONFORMING TO ASTM C33. MAXIMUM AGGREGATE SIZE FOR STRUCTURAL ELEMENTS SHALL NOT EXCEED 3/4".

**BATCHING, MIXING, AND TRANSPORTING**  
BATCHING, MIXING, AND TRANSPORTING CONCRETE SHALL BE PER ACI 301.

CONCRETE MIXES SHALL BE DESIGNED BY A CERTIFIED LABORATORY AND APPROVED BY THE ENGINEER OF RECORD.

PORTLAND CEMENT SHALL CONFORM TO ACI 301.

WATER SHALL NOT BE ADDED AT THE JOB SITE SUCH THAT THE APPROVED MIX DESIGN W/C RATIO IS EXCEEDED.

**FORM WORK**  
FORM WORK SHALL BE PER ACI 301.

**PLACING**  
PLACING OF CONCRETE SHALL BE PER ACI 301.

PLACING OF CONCRETE BY MEANS OF PUMPING SHALL BE PER ACI 301.

WHERE THERE IS A RISK OF PREMATURE DRYING, SUCH AS IN HOT OR WINDY WEATHER, CURING MEASURES SHALL BE IMPLEMENTED PER THE RECOMMENDATIONS OF ACI 301.

**CONSOLIDATION**  
CONSOLIDATION OF CONCRETE SHALL BE PER ACI 301.

**EMBEDDED ITEMS**  
EMBEDDED ITEMS SHALL BE PLACED PER ACI 301.

CONDUITS AND PIPES SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL NOT BE LARGER IN DIAMETER THAN 1/3 THE OVERALL THICKNESS OF THE SLAB, BEAM, OR WALL IN WHICH THEY ARE EMBEDDED AND SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR ELEMENT WIDTHS ON CENTER.

NO ALUMINUM EMBEDS SHALL BE IN DIRECT CONTACT WITH CONCRETE.

**COLD WEATHER CONCRETING**  
WHEN THE AIR TEMPERATURE IS BELOW 40°F, COLD WEATHER CONCRETE PROCEDURES SHALL BE USED PER ACI 301.

A CONSTRUCTION PLAN SHALL BE SUBMITTED TO THE ENGINEER DETAILING THE PROTECTION PROCEDURES PRIOR TO PLACEMENT OF CONCRETE.

**HOT WEATHER CONCRETING**  
PRIOR TO CONCRETE PLACEMENT, TOP 3 INCHES OF SUB-BASE SHALL BE WETTED SUFFICIENTLY TO SATURATE SUB-BASE WITHOUT ANY STANDING WATER.

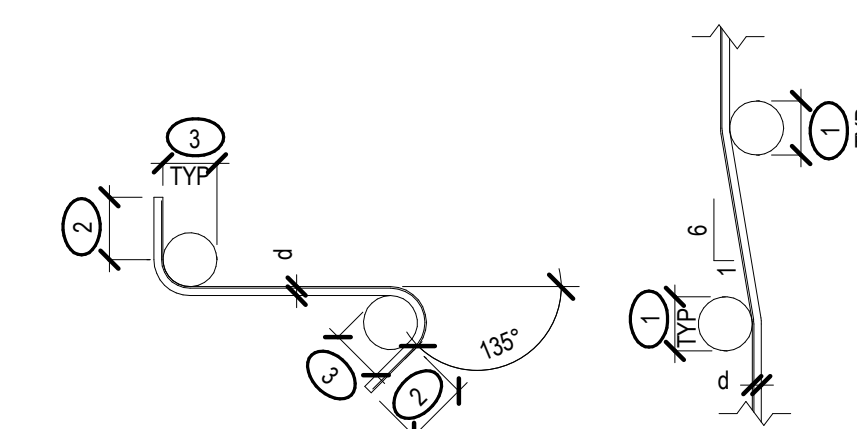
CONCRETE PLACEMENT TEMPERATURE MAY NOT EXCEED 90° FAHRENHEIT WHEN MEASURED IN ACCORDANCE WITH ASTM C1064.

STEEL FORMS AND REINFORCEMENT SHALL BE COOLED PRIOR TO CONCRETE PLACEMENT WHEN STEEL TEMPERATURES EXCEED 120° FAHRENHEIT.

MIX WATER, AGGREGATES, CONVEYING AND PLACING EQUIPMENT OR ANY COMBINATION OF THE ABOVE SHALL BE COOLED IF NECESSARY TO MAINTAIN PROPER CONCRETE PLACING TEMPERATURE.

MINIMUM REINFORCING COVER		
STRUCTURAL ELEMENT	COVER	TOLERANCE
FOOTING AND SLAB ON GRADE	3"	3/8"
WALLS (#5 OR SMALLER)	1 1/2"	3/8"
WALLS (#6 OR LARGER)	2"	1/2"
BEAMS AND COLUMNS	1 1/2"	3/8"
ELEVATED SLABS	3/4"	3/8"

**MINIMUM COVER FOR REINFORCING STEEL**



- KEYNOTES:**
- MIN FINISHED BEND DIA: 6d FOR #3 THRU #8, 8d FOR #9, #10 AND #11, 10d FOR #14 AND #18
  - EXTENSION FOR STIRRUPS AND TIES ONLY: 90°: 6d FOR #5 AND SMALLER, 12d FOR #6 THRU #8 (3" MIN); 135°: 6d (3" MIN); 180°: 4d (2 1/2" MIN)
  - MIN FINISHED BEND DIA FOR STIRRUPS AND TIES ONLY: 4d FOR #5 AND SMALLER, 6d FOR #6 THRU #8

- NOTES:**
- d = BAR DIA
  - ALL REINF SHALL BE BENT COLD UNO ON PLANS OR DETAILS
  - REINF SHALL NOT BE UN-BENT OR RE-BENT UNO

STIRRUP AND TIE HOOKS      OFFSET BAR

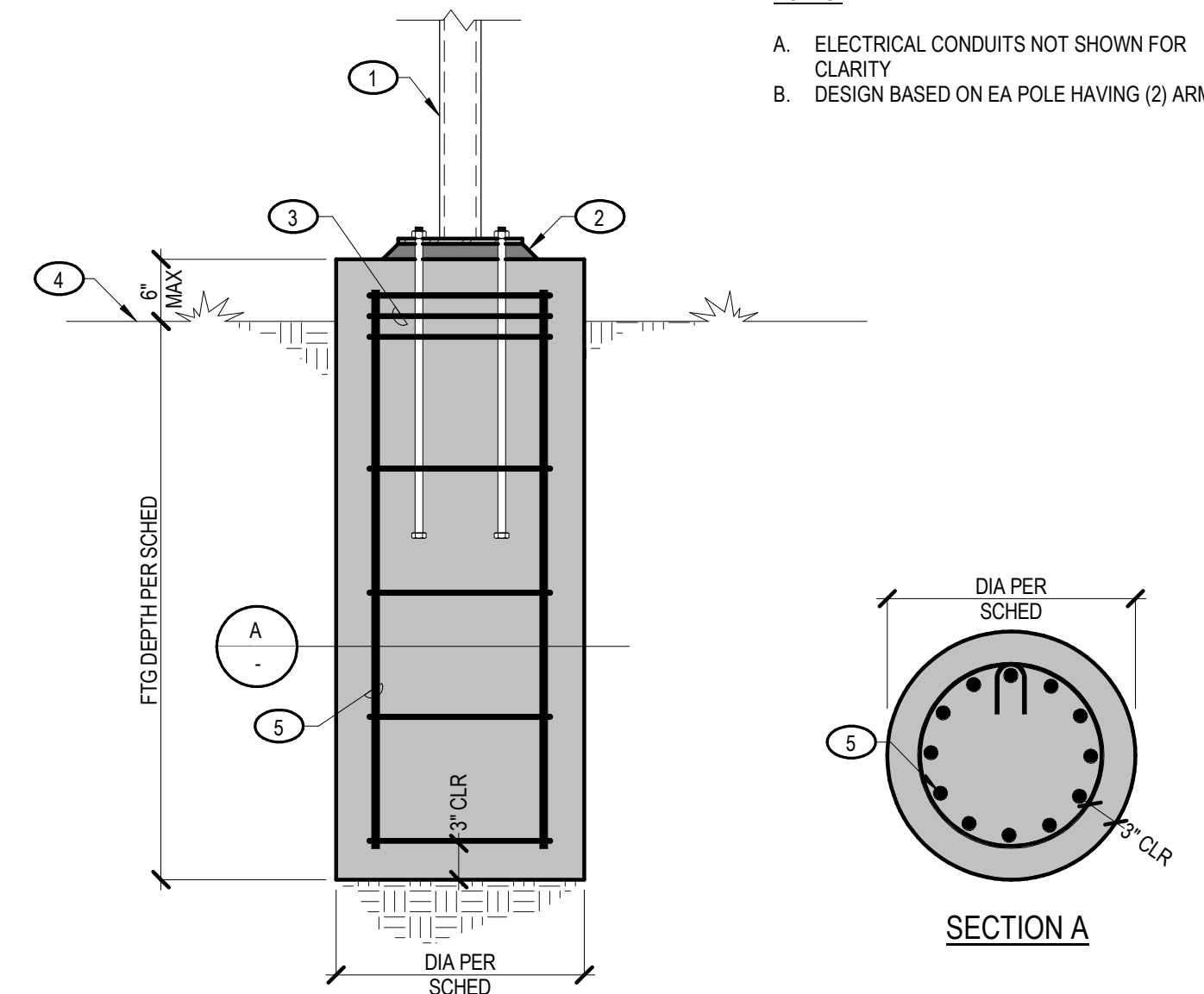
ALL OTHER REINF

**STANDARD REBAR BENDING DETAILS**



- KEYNOTES:**
- LIGHTPOLE BASE PL AND ANCHOR BOLTS PER MFR
  - ±1 1/2" NON-SHRINK GROUT W/ LEVELING NUTS
  - (3) #4 TIES AT 2' O.C. AT T.O. CAISSON AND AT 9' O.C. THEREAFTER
  - FINISHED GRADE PER CIVIL
  - VERT BARS PER SCHED

- NOTES:**
- ELECTRICAL CONDUITS NOT SHOWN FOR CLARITY
  - DESIGN BASED ON EA POLE HAVING (2) ARMS



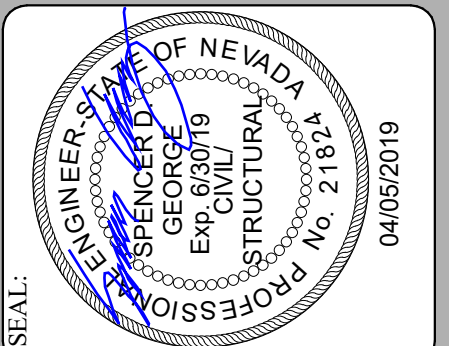
LIGHT POLE FTG SCHED						
POLE TYPE	MAX POLE HT	MAX ARM LENGTH	MAX LUMINAIRE SIZE	MAX LUMINAIRE WT	CAISSON Ø	FTG DEPTH
DELPHI POLE	10'-0"	2'-0"	2.0 SQ FT	54 LB	36"	4'-0" (12) #6 BARS
HUNTINGTON POLE	15'-0"	2'-0"	2.0 SQ FT	54 LB	36"	4'-0" (12) #6 BARS
FREMONT POLE	18'-5"	2'-0"	3.5 SQ FT	55 LB	36"	4'-9" (12) #6 BARS

**LIGHT POLE FOUNDATION**

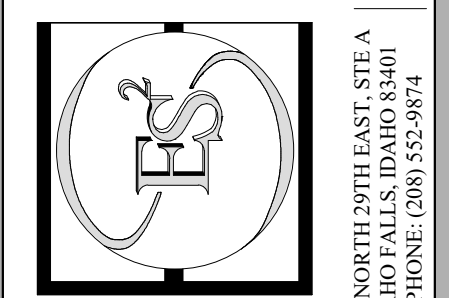
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**STANDARD ABBREVIATIONS**

- CL CENTERLINE
- (E) EXISTING
- AB ANCHOR BOLT
- ADDD ADDITIONAL
- ALT ALTERNATE
- ARCH ARCHITECTURAL
- ASD ALLOWABLE STRESS DESIGN
- BLDG BUILDING
- BLKG BLOCKING
- BN BOUNDARY NAILING OR FASTENERS
- BO BOTTOM OF
- BOT BOTTOM
- CLR CLEAR
- CMU CONCRETE MASONRY UNIT
- COL COLUMN
- CONC CONCRETE
- CONT CONTINUOUS
- DBA DEFORMED BAR ANCHOR
- DBL DOUBLE
- DIA OR Ø DIAMETER
- DIAG DIAGONAL
- DIM DIMENSION
- DWG DRAWING
- EA EACH
- ELEV ELEVATION
- EN EDGE NAILING
- EQ EQUAL
- EQUIP EQUIPMENT
- EW EACH WAY
- FN FOUNDATION
- FF FINISH FLOOR
- FLR FLOOR
- FN FIELD NAILING
- FT FOOT
- FTG FOOTING
- GA GAUGE
- GALV GALVANIZED
- GSN GENERAL STRUCTURAL NOTES
- GT GIRDER TRUSS
- HI HIGH
- HORIZ HORIZONTAL
- HSS HOLLOW STRUCTURAL SHAPE
- HT HEIGHT
- K KIP (1,000 LBS)
- KLF KIPS PER LINEAR FOOT
- KSF KIPS PER SQUARE FOOT
- KSI KIPS PER SQUARE INCH
- LLH LONG LEG HORIZONTAL
- LLV LONG LEG VERTICAL
- LO LOW
- LONG LONGITUDINAL
- LRFD LOAD AND RESISTANCE FACTOR DESIGN
- LT LIGHT
- MAX MAXIMUM
- MECH MECHANICAL
- MFD MANUFACTURED
- MFR MANUFACTURER
- MIN MINIMUM
- MISC MISCELLANEOUS
- NTS NOT TO SCALE
- O.C. ON CENTER
- OPP OPPOSITE HAND
- PL PLATE
- PLF POUNDS PER LINEAR FOOT
- PREFAB PREFABRICATION
- PRELIM PRELIMINARY
- PSF POUNDS PER SQUARE FOOT
- PSI POUNDS PER SQUARE INCH
- PT PRESSURE TREATED
- REINF REINFORCING
- REQD REQUIRED
- RME ROOF MOUNTED EQUIPMENT
- SCHED SCHEDULE
- SIM SIMILAR
- SMS SHEET METAL SCREW
- SPEC SPECIFICATION
- STD STANDARD
- T&B TOP AND BOTTOM
- T&G TONGUE AND GROOVE
- T.O. TOP OF
- TRANS TRANSVERSE
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- VERT VERTICAL
- VF VERIFY IN FIELD
- W WITH
- W/O WITHOUT
- WT WEIGHT
- WWF WELDED WIRE FABRIC



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**FREMONT STREET POLE FOUNDATIONS**  
**CITY OF LAS VEGAS DEPT. OF PUBLIC WORKS**  
**LAS VEGAS, NV**

PROJECT: TLR  
SHEET TITLE: GENERAL STRUCTURAL NOTES

ISSUE:  
CLIENT SUBMITTAL 03/11/2019  
SUBMIT FOR PERMIT 04/05/2019

#	DESCRIPTION	DATE

REVISIONS:  
# DESCRIPTION DATE

DRAWN: TLR  
CHECKED: SDG

PROJECT NUMBER: 19.2010  
SHEET NUMBER:

**50.00**

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