

M.A. Engineering, Inc.

Structural Engineering Consulting

STRUCTURAL ABBREVIATIONS

A.B. Anchor Bolt  
ADD. Additional  
AGGR. Aggregate  
ALT. Alternate  
ALU. Aluminum  
AIA. American Institute of Architects  
AISC. American Institute of Steel Construction  
ASTM. American Iron and Steel Institute  
ANSI. American National Standards Institute  
AMS. American Welding Society  
ANC. Angle  
APPROX. Approximate  
ARCH. Architect or Architectural  
ASPH. Asphalt  
ASSY. Assembly  
AVG. Average  
BP. Base Plate  
BM. Beam  
BRG. Bearing  
BOT. Bottom  
BLDG. Building  
B/D. Bottom of Deck  
B/P. Bottom of plywood  
B/PLYWOOD  
CC. Cast Iron  
CLG. Ceiling  
CLN. Clean  
C/L. Center Line  
C/G. Center of Gravity  
C/T. Center to Center  
C. Channel  
CLR. Clear  
CONC. Concrete  
CONG. Concrete Masonry Units  
CONN. Connection  
CONT. Continuous  
CONTR. Contractor  
C/P. Complete Joint Penetration  
C.J. Complete Joint Penetration  
CY. Cubic Yard

DET. Detail  
DISP. Disposal  
DIM. Dimensions  
DMS. Dims.  
DO. Ditto  
D/A. Dotted Angle  
D.F. Douglas Fir  
DWG. Drawing  
EA. Each  
E.W. Each Way  
E. Electric or Electrical  
ELEV. Elevation  
ENGR. Engineer  
EQUIP. Equipment  
ESC. Escalator  
EXCAV. Excavate  
EXIST. Existing  
EXT. Exterior  
X-HV. Extra Heavy  
X-STR. Extra Strong  
FAB. Fabrication  
F. Face  
FS. Feet or Foot  
FT. Feet or Foot  
FIG. Figure  
FLR. Floor  
F.D. Floor Drain  
FND. Foundation  
FRMG. Framing  
GA. Gauge or Gauge  
GALV. Galvanize  
GEN. General  
GLB. Glue Laminated  
GR. Grade  
GRND. Ground  
HGT. Height  
HEX. Hexagon  
HORIZ. Horizontal  
S. Standard I Beam  
INCL. Inches or Included  
INFO. Information  
ID. Inside Diameter  
ID. Inside Face  
J. Joint  
JT. Joint  
K. Kilo (1,000 lbs.)  
KO. Knockout  
LAM. Laminated  
LGT. Length  
L. Light  
LONG. Longitudinal  
LHE. Low Hydrogen Electrode

LB. Long Leg Back To Back  
LHV. Long Leg Horizontal  
LSH. Long Leg Vertical  
LSH. Long Slotted Hole  
MB. Machine Bolt  
MAT. Material  
MECH. Mechanical  
MED. Medium  
MET. Metal  
MIN. Minimum  
MISC. Miscellaneous  
MULT. Multiple  
NF. Near Face  
N. North  
NOM. Nominal  
NO. Number  
OC. On Center  
OPP. Opposite  
ORG. Original  
OS. Outside Diameter  
OF. Outside Face  
P. Pair  
PART. Partition  
P. Penny Weight (Nails, etc.)  
PAR. Parallel  
PC. Piece  
PL. Plate  
POST. Post  
PT. Post Tensioned  
P. Pounds Per Square Foot  
PSF. Pounds Per Square Foot  
P. Pounds Per Square Inch  
PROJ. Project  
QTR. Quarter  
R. Radius  
REF. Reference  
REINF. Reinforce, Reinforced,  
REIN. Reinforcement, or Reinforcing  
REV. Reverse  
R. Roof  
R. Reuse or Revision  
Room  
SCHED. Schedule  
SECT. Section  
SM. Sheet Metal  
SSH. Short Slotted Hole  
SK. Similar  
S. South  
SPEC. Specifications  
SQ. Square  
S. Staggered  
STAG. Staggered  
ST. Standard  
STR. Steel  
STL. Stock  
ST. Stock  
STRUCT. Structural  
SF. Strut Force  
SYMM. Symmetrical  
TAN. Tangent  
THRU. Through  
THRU-OUT  
T. Tongue and Groove  
T AND G  
T AND B  
T. Top of Steel  
T/F. Top of Concrete Foundation  
T/W. Top of Wall  
TRANS. Transverse  
TYP. Typical  
UN. Unless Noted  
UNO. Unless Otherwise  
V. Verify in the Field  
VERT. Vertical  
VOL. Volume  
WT. Weight  
W. Welded Wire Fabric  
W. Wide Flange  
W. With  
WO. Without  
WD. Wood Screw  
WP. Work Point  
W. Wrought Iron  
YD. Yard

SYMBOL LEGEND

SLAB SLOPE DIRECTION DOWN  
RAMP SLOPE UP OR DOWN  
SPAN DIRECTION  
STEEL ELEVATION  
MISCELLANEOUS ELEVATION  
FLOOR OR STEEL ELEVATION  
REQUIRED NUMBER OF HEADED SHEAR STUDS  
RIGID CONNECTION  
CAMBER UP  
ELEVATION INDICATOR  
STEP IN CONTINUOUS FOOTING INDICATOR  
CHANGE (STEP) IN ELEVATION INDICATOR  
GENERAL  
WELDING  
STEEL  
CONCRETE  
MASONRY  
WOOD  
AWS  
AISC AND SEE ARCHITECTURAL SYMBOLS  
ACI AND SEE ARCHITECTURAL SYMBOLS  
SEE ARCHITECTURAL SYMBOLS  
SEE ARCHITECTURAL SYMBOLS  
SYMBOLS AND ABBREVIATIONS FOR CONCRETE (as per ACI)  
# TO INDICATE SIZE OF DEFORMED BAR.  
PLAIN ROUNDS AS SPIRALS  
SPACING CENTER TO CENTER  
DIRECTION IN WHICH BARS EXTEND  
LIMITS OF AREA COVERED BY BARS

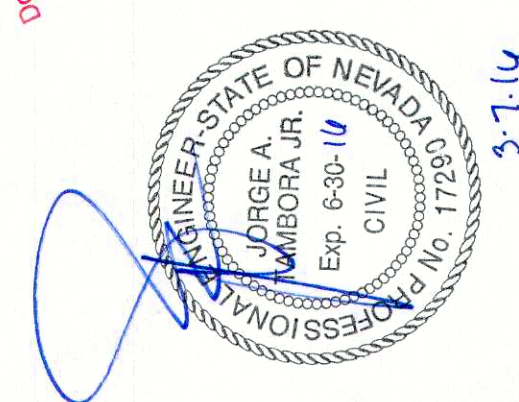
DRAWING LIST

S0.01 COVER SHEET  
S2.01 POLE SECTION AND GENERAL NOTES

COVER SHEET

|          |            |
|----------|------------|
| DATE     | 03.07.2016 |
| DRAWN BY | MGT        |
| ENGINEER | IP         |
| JOB NO.  | 15124      |

As BUILT  
S0.01  
4 of 5



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NEW RADIO COMMUNICATION TOWER AND SECURITY FENCE  
DEPARTMENT OF PUBLIC WORKS  
EMERGENCY OPERATIONS CENTER - LOGISTICAL SUPPORT FACILITY  
7551 SAUER DRIVE LAS VEGAS, NEVADA 89128

M.A. Engineering, Inc.  
Structural Engineering Consulting  
3281 S. Highland, Suite 813  
Las Vegas, NV 89109  
(702) 735-2777 Fax (702) 735-3026  
JOB NO. 15124