### UNIFORM STANDARD DRAWINGS
#### CLARK COUNTY AREA

#### VOLUME II - YEAR 2000 REVISIONS

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<td>1</td>
<td>Revised requirement for single strand bare copper ground wire to 7-strand.</td>
<td>10/1/00</td>
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<tr>
<td>404.214 Service Pedestal Foundation</td>
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Revised December 2000
FOREWORD

UNIFORM STANDARD DRAWINGS FOR PUBLIC WORKS' CONSTRUCTION,
OFFSITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA
VOLUME II

The Uniform Standard Drawings for Public Works Construction may be revised by issuance of revisions or supplements to correct errors and omissions found in these drawings and to reflect advanced thinking and the changing technology of the construction industry. Each revision will supersede any previous pertinent drawing. Upon approval by the Regional Transportation Commission, revisions will be posted to the RTC website, www rtc co clark nv us, on the first day of the month following the meeting. This volume contains all revisions through December 2000.

To implement this end a Specifications Committee has been established as a permanent organization to continually study and recommend changes to the standard drawings. Interested parties may address suggested changes and questions to the Regional Transportation Commission, 600 South Grand Central Parkway, Suite 350, Las Vegas, Nevada, 89106-4512.
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- **404.120** No. 5 Pull Box
- **404.121** Reinforced Plastic Mortar Service Box Assembly #5
- **404.130** No. 7 Pull Box
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**PULL BOXES**

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- **404.207** Type "G" Foundation
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SECTION 404

TRAFFIC SIGNALS

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**CONTINUED**

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CONTINUED

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DRAWING NUMBER

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    Subsection 623G.03.07

Revised December 2000
2" CONDUIT

24" DIA. CONCRETE BASE OR
18" SQ. CONCRETE BASE

USE TEMPLATE PROVIDED
BY MFR.

NO. 4 AWG SEVEN (7) STRAND BARE COPPER
GROUNDING WIRE 3½ ABOVE FOUNDATION.
CONNECT GROUNDING WIRE TO GROUNDING
POINT.

CONDUIT TO EXTEND 6" ABOVE TOP
OF THE ANCHOR BOLTS

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN
POLE BASE AND SIDEWALK

5/8" X 12" HOT-DIP GALVANIZED
ANCHOR BOLTS

BRONZE GROUNDING
CONNECTOR
UL LISTED FOR
UNDERGROUND USE
(ONE PER BOLT)
SEE NOTE 1

4" CAP

15# FELT (2 LAYERS)

STANDARD GROUNDING PLATE
PER NEC 250-93

24" DIA.
OR 18" SQ.

NOTE:
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR
   BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE
   CONTINUING DOWN TO THE GROUNDING PLATE.

SPECIFICATION REFERENCE

623G.03.06 FOUNDATION
623T.02.02 ANCHOR BOLT

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "A" FOUNDATION

DATE 9-14-00 | DWG. NO. 404.201 | SHEET 1 OF 1
NOTE:
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
NOTE:
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOLED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

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<td>CLARK COUNTY AREA</td>
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<td>623T.02.02 ANCHOR BOLT</td>
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TYPE "C" FOUNDATION

DATE 9-14-00 DWG. NO. 404.203 SHEET 1 OF 1
NOTES:

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.

2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

ANCHOR BOLTS

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<th>POLE GA</th>
<th>BOLT &quot;E&quot;</th>
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<td>11</td>
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<tr>
<td>7</td>
<td>1-1/8&quot; X 40&quot; X 4&quot;</td>
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<tr>
<td>3</td>
<td>1-1/4&quot; X 44&quot; X 4&quot;</td>
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BRAZED GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE (ONE PER BOLT)
SEE NOTE 2

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3/4" ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS
BASE OF POLE
T NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK
4" MIN-6" MAX. CONCRETE CAP

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "E" FOUNDATION

DATE 9-14-00  DWG. NO. 404.205  SHEET 1 OF 1
NOTES:
1. ANCHOR BOLTS SHALL BE HOT-DIPPED GALVANIZED STEEL WITH NUT AND WASHER.

2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

<table>
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<th>ANCHOR BOLTS</th>
<th>POLE GA.</th>
<th>BOLT &quot;L&quot;</th>
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<tr>
<td>11</td>
<td>1-1/8&quot; X 40&quot; X 4&quot;</td>
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<tr>
<td>7</td>
<td>1-3/8&quot; X 44&quot; X 4&quot;</td>
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BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE (ONE PER BOLT) SEE NOTE 2

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3" ABOVE FOUNDATION CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK
4" MIN-6" MAX. CONCRETE CAP

6"X6" WIRE MESH 10 GA.
6'-6" MESH HEIGHT

15# FELT (2 LAYERS)
STD. GROUNDING PLATE PER NEC 250-83

36" DIA. CONCRETE BASE

SPECIFICATION REFERENCE
623G.03.06 FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "F" FOUNDATION

DATE 9-14-00 | DWG. NO. 404.206 | SHEET 1 OF 1
NOTES:
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

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<th>POLE GA.</th>
<th>BOLT &quot;E&quot;</th>
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<td>1-1/4&quot; X</td>
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NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6' ABOVE TOP OF THE ANCHOR BOLTS BASE OF POLE
1' NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK
4" MIN-6" MAX. CONCRETE CAP

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

623G.03.06 FOUNDATION

TYPE "G" FOUNDATION

DATE 9-14-00  DWG. NO. 404.207  SHEET 1 OF 1
NOTES:

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.

2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

USE TEMPLATE PROVIDED BY MFR.

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

1 3/4" X 60" X 6" BOLTS

BASE OF POLE

1 NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN-6" MAX. CONCRETE CAP

BRONZE GROUNDING CONNECTOR
UL LISTED FOR UNDERGROUND USE (ONE PER BOLT)
SEE NOTE 2

2" CONDUIT

10'-0" MESH, HEAVY T

6"X6" WIRE MESH 10 GA.

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-63

36" DIA. CONCRETE BASE

SPECIFICATION REFERENCE
623G.03.06 FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "H" FOUNDATION

DATE 9-14-00 | DWG. NO. 404.208 | SHEET 1 OF 1
NOTES:

1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. ANCHOR BOLT MINIMUM YIELD STRENGTH FY = 50 KSI.
3. SURROUNDING SOIL MUST HAVE SOIL-BEARING PRESSURE S1 OF 1500 PSF.
4. WRAP 20' OF #4 AWG BARE COPPER GROUNDING WIRE AROUND ENTIRE CAGE. GROUNDING WIRE SHALL BE CONNECTED TO ONE ANCHOR BOLT NEAR TOP OF FOUNDATION AND CONTINUE DOWN AROUND CAGE AND CONNECT TO GROUNDING PLATE AT BOTTOM OF FOUNDATION.
5. STEEL WIRE SHALL BE USED TO TIE ALL BARS AND WIRE MESH FIRMLY TOGETHER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "L" FOUNDATION

DATE 9-14-00 | DWG. NO. 404.209 | SHEET 1 OF 1
6" OF NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION CONNECT GROUNDING WIRE TO GROUNDING POINT.

2" PVC CONDUIT TO BE ADDED IN EVERY FOUNDATION FOR FUTURE USE. POINT TOWARD INTERSECTION.

NOTES:
1. FOR CONDUIT SIZE, LOCATION AND QUANTITY, SEE PLANS.
2. ANCHOR BOLTS 3/4" X 18" X 3" SHALL BE HOT-DIP GALVANIZED COMMERCIAL GRADE STEEL WITH NUT AND WASHER.
3. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.
4. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 2" MIN., 4" MAX.
5. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "T" FOUNDATION

DATE 9-14-00 DWG. NO. 404.211 SHEET 1 OF 1
NOTES:

1. FOR CONDUIT SIZE, LOCATION, AND QUANTITY SEE PLANS.

2. 3/4" X 18" X 3" HOT-DIP GALVANIZED ANCHOR BOLTS. LOCATE WITH TEMPLATE.

3. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.

4. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 2" MIN., 4" MAX.

5. LOCATION OF FOUNDATION MUST BE APPROVED BY ENGINEER IN FIELD.

6. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE grounding PLATE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "J" & "K" FOUNDATIONS

DATE 9-14-00 | DWG. NO. 404.213 | SHEET 1 OF 1
NOTES:

1. BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

2. CABINET COVERS SHALL BE PARALLEL WITH CURB.

3. IN AREAS WHERE R/W PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK.

4. CABINET COVERS SHALL OPEN TOWARDS THE STREET WHEN CABINETS ARE LOCATED AT BACK OF WALK. CABINET COVERS SHALL OPEN PARALLEL TO THE SIDEWALK FACING THE DIRECTION OF TRAFFIC WHEN LOCATED WITHIN THE SIDEWALK.