FOREWORD

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

The following participating entities of the Clark County, Nevada area have adopted these standard drawings.

CITY OF LAS VEGAS
Adopted by City Council action ..............................................November 4, 1987

CITY OF HENDERSON
Adopted by City Council action ..............................................October 20, 1987

CITY OF NORTH LAS VEGAS
Adopted by City Council action ..............................................November 4, 1987

CITY OF BOULDER CITY
Adopted by City Council action ..............................................January 26, 1988

CITY OF MESQUITE
Adopted by City Council action ..............................................January 26, 1988

CLARK COUNTY
Adopted by Board action ..........................................................April 1998

REGIONAL STREET AND HIGHWAY COMMISSION
Adopted by Commission Action ..............................................October 8, 1987

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 RTC, revisions will become effective and be posted on the RTC web-site, www.rtsouthernnevada.com, by the first day of the month of January and July.

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.
### Uniform Standard Drawings

**Clark County Area**

**Standard Symbols for Traffic Signal Drawings**

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<thead>
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<th>Specification Reference</th>
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**Effective 07/01/10 - 12/30/10**

1. **Pull Box**
2. **Signal Luminaire Pole, Post**
3. **Utility Pole**
4. **Control Cabinet**
5. **Conduit Run**
6. **Aerial Cable**
7. **Detector Loop**
8. **Padmount, Electrical Service or Splice Box**
9. **Fluorescent Luminaire**
10. **High Pressure Sodium Luminaire - 750 Watt**
11. **High Pressure Sodium Luminaire - 400 Watt**
12. **Traffic Signal Indication with Backplate**
13. **Traffic Signal Indication with Directional Arrow and Backplate**
14. **Pedestrian Indication and Direction**
15. **Hazard Beacon, One Way**

**Date: 12-12-96 | DWG. NO. 404.001 | Sheet 1 of 2**
QUADRANT

ARM OR SIGNAL LOCATION
(TOP VIEW)

NOTE: QUADRANT IS IN RELATION WITH SHEET - NOT WITH NORTH ARROW
NOTES:

1. THIS PULL BOX SHALL NOT BE USED IN TRAFFIC OR PARKING LAINES.

2. ALL DIMENSIONS ARE NOMINAL.
CAST IRON SIDEWALK COVER MARKED "TRAFFIC SIGNAL"

PRECAST REINFORCED CONCRETE BODY

PRECAST REINFORCED CONCRETE EXTENSION. (MUST NOT BE USED UNLESS SPECIFIED.)

NOTES:
1. CAST IRON COVER SHALL BE USED IN SIDEWALK ONLY.
2. SEE DRAWING NO. 404.140 FOR COVER TO BE USED IN STREET AND UNDEVELOPED AREAS.
3. ALL DIMENSIONS ARE NOMINAL.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

NO. 5 PULL BOX

DATE
DWG. NO. 404.120
SHEET 1 OF 1
PLASTIC MORTAR REINFORCED SIDEWALK COVER MARKED "TRAFFIC SIGNAL."

REINFORCED PLASTIC MORTAR EXTENSION.

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN VEHICLE TRAVEL AREAS.
2. PULL BOX TO BE USED IN CONCRETE SIDEWALKS ONLY.
CAST IRON SIDEWALK COVER MARKED "TRAFFIC SIGNAL" STEEL PULL BOX COVER, DRAWING NO. 404.140 IS PREFERRED FOR ALL USES, THIS PULL BOX ONLY.

PRECAST REINFORCED CONCRETE BODY.

PRECAST REINFORCED CONCRETE EXTENSION. (MUST NOT BE USED UNLESS SPECIFIED.)

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAFFIC OR PARKING LANES.
2. SEE DRAWING NO. 404.140 FOR ALTERNATE COVER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

NO. 7 PULL BOX
REINFORCED PLASTIC MORTAR BODY.

REINFORCED PLASTIC MORTAR EXTENSION.

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN VEHICLE TRAVEL AREAS.
2. PULL BOX TO BE USED IN CONCRETE SIDEWALKS ONLY.
REINFORCED POLYMER CONCRETE COVER MARKED "FIBER OPTIC"

POLYMER COMPOSITE BODY

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAVEL OR PARKING LINES.
ADJUSTABLE TORSION SPRING ASSISTED STEEL COVER MARKED “FIBER OPTIC”

CABLE RACK

GROUNDING RIBBON

5”

3'-4” OVERALL

PRECAST CONCRETE MATERIAL

4'-8"

3'-2"

9” SUMP

NOTES:

1. DESIGN LOAD: H-20 WHEEL LOADINGS.

2. SUITABLE FOR USE IN OFF STREET LOCATIONS WHERE NOT SUBJECT TO HIGH DENSITY TRAFFIC. IT SHALL NOT BE USED IN TRAVEL OR PARKING LANES.

3. INSIDE DIMENSIONS - 30"X48"X36"

4. FOR USE AT FIBER OPTIC SPLICE POINTS.

TYPE 200 VAULT

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<td></td>
<td>TYPE 200 VAULT (FOR USE AT FIBER OPTIC SPLICE POINTS)</td>
</tr>
<tr>
<td></td>
<td>DATE 3-13-08 DWG. NO. 404.133 SHEET 1 OF 1</td>
</tr>
</tbody>
</table>
NOTE:
1. THIS PULL BOX SHALL BE USED IN VEHICLE TRAVEL AREAS.

AVAILABLE IN #3, #5, & #7 SIZES (3 GAUGE STEEL)
ACCESS HOLE TO PULL BOX "L" BOLTS

BEAD WELD INSCRIPTION

STEEL FLOOR PLATE, 3/8" THICK, ROUND CORNERS TO MATCH EDGES OF PULL BOX

COVER

FINISHED GRADE

SIDE

MOUNTING BRACKET, WELDED TO COVER, TYP. LOCATE TO MATCH PULL BOX "L" BOLTS

1/4" TYP.

15-1/4"

3/8" x 16 COARSE THREAD TAP, CENTERED BETWEEN RIBS. FOR COVER GROUND CONNECTION SEE SHEET 2 OF THIS DRAWING NO.

BOTTOM

1/4"

2-1/2"

2-1/4" TYP.

30-1/2"

NOTES:
1. THIS COVER TO BE USED IN STREET AREAS AND UNDEVELOPED AREAS ONLY.
2. TYPICAL NO. 7 PULL BOX COVER SHOWN. SUBMIT OTHERS TO THE ENGINEER FOR APPROVAL.
3. ALL TRAFFIC AND OPEN AREA COVERS SHALL BE H 20 RATED.
4. GROUNDING OF STEEL PULL BOX COVERS IS NOT NECESSARY FOR PULL BOXES CONTAINING LOW VOLTAGE, POWER-LIMITED CONNECTIONS.
NOTES:
1. PULL BOX LID SHOULD BE TAPPED WITH A 3/8" X 16 COURSE THREAD TAP.
2. FOR TYPICAL NO. 7 PULL BOX COVER GROUNDING, SEE SHEET 1 OF THIS DRAWING NO.
RIGID CONDUIT BEND
3' MINIMUM RADIUS

FIBER OPTIC CABLE

5' TYP.
TO NEAREST EXISTING
CONSTRUCTION JOINT

SIDEWALK TO BE REMOVED AND
REPLACED PER SECTION 202 OF
THE STANDARD SPECIFICATIONS

10' TYP.
TO NEAREST EXISTING
CONSTRUCTION JOINT

REMOVE/REPLACE CURB AND GUTTER
WHEN NEEDED TO SATISFY THE CONDUIT
MINIMUM BEND RADIUS

SAWCUT

EXISTING CONCRETE
SIDEWALK

4" PVC
CONDUIT

OBSTRUCTION

12"MIN
CLEARANCE

10' 10' 10'
1' 10' 10'
1'

CONDUIT BEND

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ITS COMMUNICATION CONDUIT
AND PULL BOX DETAIL
(FOR EXISTING CURB & GUTTER)

DATE 3-13-08  DWG. NO. 404.142  SHEET 1 OF 2

P30 ITS COMMUNICATION
PULL BOX
SEE NOTES ON
SHEET 2
PULL BOX MAY ALSO BE PLACED NEAR THE BACK OF CURB WITH A MIN. 8" CLEARANCE

FIBER OPTIC CABLE

DEPTCH AS REQUIRED
10"
5"
12" MIN
5"
5"

FLOWABLE BACKFILL

PVC CONDUIT

32 1/4"
8" MIN
BACK OF SIDEWALK

CONDUIT ENDS MAY ENTER THE BOTTOM OF THE PULLBOX IF NECESSARY

4" MINIMUM CLEARANCE

1/2" DRAIN ROCK
12" DEPTH

SECTION A-A

NOTES:
1. P30 PULL BOX SHALL BE INSTALLED FOR THE TRAFFIC SIGNAL ITS COMMUNICATIONS PER APPLICABLE STANDARDS.
2. PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTICS".
3. APPROXIMATE LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL BOXES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE LOCATIONS OF THE PROPOSED ITS COMMUNICATION PULL BOXES IN THE FIELD PER STANDARD STANDARD SPECIFICATION INTERVALS AND THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER BEFORE INSTALLATION.
4. DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC CABLE IS REQUIRED.
PULL BOX CONCRETE COLLAR
IN UNDEVELOPED AREAS

NOTES:

1. P30 PULL BOXES SHALL BE INSTALLED FOR THE SIGNAL
ITS COMMUNICATIONS PER APPLICABLE STANDARDS.

2. PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTIC".

3. LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL
BOXES SHOWN ON THE PLANS ARE APPROXIMATE. THE
CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE
LOCATIONS IN THE FIELD AT APPROXIMATELY 500 FEET
INTERVALS. THESE LOCATIONS SHALL BE SUBJECT TO
APPROVAL BY THE ENGINEER BEFORE INSTALLATION.

4. DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC
CABLE IS REQUIRED.

5. CONDUIT SIZES SHALL BE PER UNIFORM STANDARD
SPECIFICATIONS, SECTION 623.

6. ALL CONDUITS SHALL HAVE A CONTINUOUS RUN OF 6 PAIR
PE39 #22 AWG INTERCONNECT CABLE.

7. UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED
12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED
WITH THE LEGEND "FIBER OPTIC".

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<tbody>
<tr>
<td></td>
<td>PULL BOX CONCRETE COLLAR IN UNDEVELOPED AREAS</td>
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<tr>
<td></td>
<td>DATE 3-13-08  DWG. NO. 404.143  SHEET 1 OF 1</td>
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</tbody>
</table>
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.
NOTES:
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.
3/4" X 18" X 3" HOT-DIP GALVANIZED ANCHOR BOLTS

4" MIN., 6" MAX. CONCRETE CAP

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

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

2" CONDUIT

41" MIN.

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

USE TEMPLATE PROVIDED BY MFR.

CONDUIT TO EXTEND 6" ABOVE TOP
OF THE ANCHOR BOLTS

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

BASE OF POLE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE
PER NEC 250-83

30" DIA. OR 24" 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.
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.

<table>
<thead>
<tr>
<th>POLE GA</th>
<th>BOLT &quot;E&quot;</th>
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<tbody>
<tr>
<td>11</td>
<td>SEE POLE DRAWING</td>
</tr>
<tr>
<td>7</td>
<td>1-1/8&quot; X 40&quot; X 4&quot;</td>
</tr>
<tr>
<td>3</td>
<td>1-1/4&quot; X 44&quot; X 4&quot;</td>
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</tbody>
</table>

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.

36" DIA. CONCRETE BASE

STD. GROUNDING PLATE PER NEC 250-83

15# FELT (2 LAYERS)
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.

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

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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 36" 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.

36" DIA. CONCRETE BASE

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

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.

ANCHOR BOLTS

<table>
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<td>1-1/4&quot; X 44&quot; X 4&quot;</td>
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</table>

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'-0" 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

2" CONDUIT

3'-6" MESH HEIGHT

6"X6" WIRE MESH 10 GA.

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

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.

NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' C. 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

10'-0" MESH HEIGHT

6"X6" WIRE MESH 10 GA.

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

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
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. ANCHOR BOLT MINIMUM YIELD STRENGTH $F_y = 50$ KSI.
3. SURROUNDING SOIL MUST HAVE SOIL-BEARING PRESSURE $S_1$ 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.

NOTES:

- BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE
- 10 GA. 6"X6" WIRE MESH OR #4 BAR 6"X6" SPACING
- 12 - #7 BARS 11"-6" LONG EQUALLY SPACED
- USE TEMPLATE PROVIDED BY MFR.
- NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3" ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT. (SEE NOTE 4)
- CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS
- 2" X 66" X 6" 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

TYPE "L" FOUNDATION

DATE 9-14-00 DWG. NO. 404.209 SHEET 1 OF 1
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.

2. 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.

3. STEEL WIRE SHALL BE USED TO TIE ALL BARS AND SPIRAL FIRMLY TOGETHER.

4. 28 DAY STRENGTH - 4000 PSI MIN. ALL REINFORCING STEEL SHALL BE ASTM A615 GR 60.

5. MAXIMUM ALLOWABLE OVERTURNING MOMENT IS 180 FT-KIPS.

6. MAXIMUM ALLOWABLE TORSION IS 220 FT-KIPS.

7. THE FOUNDATION DESIGN SHOWN ASSUMES A NON-COEHESIVE SOIL WITH A MINIMUM INTERNAL FRICTION ANGLE OF 30 DEGREES. IF ACTUAL SOIL CONDITIONS ARE LESSER QUALITY, THE FOUNDATION SHOULD BE DESIGNED FOR THE SPECIFIC SITE CONDITIONS.

No. 4 AWG SINGLE-STRAND BARE COPPER GROUNDING WIRE 3'6" ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT. (SEE NOTE 4)

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS
2-1/4" X 93" X 9" A307 GRADE B BOLTS BASE OF POLE
1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK
4" MIN.-6" MAX. CONCRETE CAP

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.
NOTES:

1. FOR CONDUIT SIZE, LOCATION, AND QUANTITY SEE PLANS REFER TO CONDUIT LAYOUT DRAWING # 404.213A FOR DETAILS.

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 1" MIN., 4" MAX.

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

6. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE CONNECTED TO EACH ANCHOR BOLT WITH BRONZE GROUNDING CONNECTOR BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

8' OF #4 AWG SINGLE STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

60" MIN. (EASEMENT MAY BE NECESSARY)

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83
NOTES:

1. 3" OR 4" FIBER OR INTERCONNECT FROM TYPE 200 OR P-30 PULL BOX. REFER TO PLANS FOR INTERCONNECT/FIBER CONDUIT SIZE.
2. 2" CONDUIT FROM SERVICE PEDESTAL.
3. 3" CONDUITS FROM #7 TRAFFIC SIGNAL PULL BOX FOR SIGNAL POLES.
4. #4 SINGLE STRAND BARE COPPER WIRE SEE DRAWING 404.213 FOR DETAILS.
5. INSTALL CONDUITS 1" FRONT OF CENTER LINE.
6. REFER TO PLANS FOR ANY ADDITIONAL CONDUITS.
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.

SPECIFICATION REFERENCE

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<tr>
<td>501</td>
<td>PORTLAND CEMENT CONCRETE</td>
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<tr>
<td>623</td>
<td>TRAFFIC SIGNALS &amp; STREETLIGHTING</td>
</tr>
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UNIFORM STANDARD DRAWINGS

CLARK COUNTY AREA

SERVICE PEDESTAL FOUNDATION

DATE  9-14-00  DWG. NO.  404.214  SHEET  1 OF 1
MOTOR: 1/125 HP, 3000 RPM NEMA CLASS B, INS. 0.65 AMPS AT 115 VAC.

VENT FAN SPECIFICATION:
134 C.F.M. RATING AT 160° OF WATER STATIC PRESSURE.

NOTES:
1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. DOOR SHALL LOCK AT THREE POINTS.
4. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 404.211.
5. INCLUDE 3/4" x 18" x 3' HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.

POLICE PANEL

PLAN AT BASE

"M" CABINET

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE V
CABINET

DATE 12-12-96 DWG. NO. 404.304 SHEET 1 OF 1
NOTES:

1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.

2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.

3. SHELVES SHALL BE REMOVABLE AND ADJUSTABLE FOR VERTICAL SPACING.

4. DOOR SHALL LOCK AT THREE POINTS.

5. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 404.213.

6. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
NOTES:

1. MATERIAL = 0.125" ALUMINUM
2. INTERIOR AND EXTERIOR COATING TO BE DETERMINED BY THE AGENCY.
3. SHELVES SHALL BE REMOVABLE AND ADJUSTABLE FOR VERTICAL SPACING.
4. DOOR SHALL LOCK AT THREE POINTS.
5. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATIONS, SEE DRAWING No. 404.213.
6. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
VENT FAN SPECIFICATION:
SEE STANDARD DRAWING
NO. 404.304

"RR" CABINET

NOTES:
1. MATERIAL - 14 GA. SHEET STEEL,
   OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE
   TWO COATS WHITE ENAMEL OR AS
   APPROPRIATE.
3. FOUNDATION DETAILS SHALL BE SPECIFIED
   ON THE SIGNAL CONSTRUCTION PLANS.
4. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED
   ANCHOR BOLTS WITH EACH CABINET.

<table>
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<tr>
<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CLARK COUNTY AREA</td>
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| DATE 12-12-96 | DWG. NO. 404.308 | SHEET 1 OF 1 |
NOTES:

1. CONSTRUCT FROM MINIMUM 12-GUAGE STEEL.

2. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.
WIRING DIAGRAM FOR FLASHING BEACON
TIMER CONTROLLED OPERATION

NOTES:
1. ALL WIRING INSIDE THE CABINET SHALL BE #14 THW.
2. ALL FIELD WIRE TO THE SIGNAL SHALL BE #14 SOLID COPPER.
3. THE SERVICE WIRE SHALL BE 2-#4 THW & 1-#6 THW.
   PROVIDE #10 PIGTAIL FOR CONNECTION TO BREAKER.
4. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.
5. TWO POLE SOLID STATE FLASHER.
6. THERE SHALL BE A 1" MINIMUM CLEARANCE BETWEEN INDIVIDUAL COMPONENTS.
7. ALL SERVICE POINTS SHALL BE AS FOR STREET LIGHTING.
8. FLASHING PATTERN OF LIGHTS TO BE SPECIFIED BY THE ENTITY.
**NOTES:**

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.


4. INSTALL A BACKFACING LIGHT ON BACK OF OUTERMOST LIGHT, INDICATING THE SPEED LIMIT MESSAGE IS IN OPERATION.

5. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

**FOR "F" TYPE FOUNDATION SEE DRAWING NO. 404.206**

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**SPECIFICATION REFERENCE**

**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**SCHOOL FLASHING SIGN ON POLE WITH LUMINAIRE**

**DATE** 9-14-06  **DWG. NO.** 404.400  **SHEET** 1 OF 2
NOTES:

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. INSTALL A BACKFACING LIGHT ON BACK OF OUTERMOST LIGHT, INDICATING THE SPEED LIMIT MESSAGE IS IN OPERATION.
NOTES:

1. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".

2. THE FORCE REQUIRED TO ACTIVATE CONTROL SHALL BE NO GREATER THAN 5 LB.

3. POST SHALL BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

FOR TYPE "A" FOUNDATION SEE DRAWING NO. 404.201
Effective 07/01/10 - 12/30/10

PEDESTRIAN PUSHDOWN FOR 2 1/2" POSTTOP MOUNTING

PEDESTRIAN PUSHDOWN

PROVIDE 5" X 7-3/4" SIGN
THIS POST ONLY.

ADDITIONAL PEDESTRIAN PUSHDOWN, IF REQUIRED.

2-1/2" I.P.S.

INCLUDE 5/8" X 12" X 3"
HOT-DIP GALVANIZED
ANCHOR BOLTS.

PLAN OF BASE

NOTES:

1. PEDESTRIAN PUSHDOWN SHALL NOT BE LOCATED MORE THAN 24" FROM THE
BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSHDOWN IS 20" TO 24",
THE BUTTON SHALL BE LOCATED AT A MAXIMUM HEIGHT OF 44" FROM THE SURFACE
OF THE WALK; OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".

2. THE FORCE REQUIRED TO ACTIVATE CONTROL SHALL BE NO GREATER THAN 5 LB.

3. POST SHALL BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER
AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY
THE ENTITY.

FOR TYPE "A" FOUNDATION SEE DRAWING NO. 404.201

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PEDESTRIAN PUSHDOWN POST FOR
2 1/2 POSTTOP MOUNTING

DATE 12-12-96  DWG. NO. 404.401  SHEET 2 OF 2
1/2" N.C. SQ. NUT FOR GROUND (OPP. HANDHOLE) 8-1/2" B.C.

PLAN OF BASE

4-1/2" O.D. COLLAR 1/2" PLATE

BASE COVER

(4) 3/4" X 18" X 3"
HOT-DIP GALVANIZED ANCHOR BOLTS WITH (2) NUTS AND (2) WASHERS PER BOLT. BOLTS MUST PROJECT 1-3/4" ABOVE FINISH.

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>&quot;A&quot; NOM.</th>
<th>SHAFT SIZE</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>1-A</td>
<td>10'-0&quot;</td>
<td>11 GA. 5.5&quot; X 4.1&quot; X 10'-0&quot;</td>
<td>NEAR RIGHTS &amp; ISL. POLES</td>
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<tr>
<td>1-B</td>
<td>7'-0&quot;</td>
<td>11 GA. 5.5&quot; X 4.1&quot; X 7'-0&quot;</td>
<td>PED. HEADS &amp; BUTTON ONLY</td>
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</tbody>
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NOTES:

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

3. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE, THE MAXIMUM HEIGHT SHALL BE 48".

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 404.203.
6" SCH. 40
GRADE "A"

(8) WELDED
STEEL COUPLING

(8) 8" SIGNAL HEADS
SHOULD EXTEND TO
TOP & BOTTOM OF
SIGN AS SHOWN

PLAN OF BASE

4" X 6-1/2" (INSIDE DIM.)
HANDBOUBLE AND COVER
(SHALL FACE AWAY FROM
ONCOMING TRAFFIC)

3/8" STEEL PLATE
BASE THICKNESS

HEAVY SQ. NUTS
FOR PLUMBING

NOTES:

1. DRILL 1" HOLES IN STEEL PIPE WHERE
   1-1/2" STEEL COUPLINGS ARE TO BE.

2. POLE TO BE HOT-DIP GALVANIZED BY MANUFACTURER
   OR PRIME PAINTED BY MANUFACTURER AND FINISH
   PAINTED BY CONTRACTOR PER SPECIFICATIONS
   AND AS REQUIRED BY THE ENTITY.

3. HANDBOUBLE COVERS SHALL BE MOUNTED WITH
   TAMPER-RESISTANT SCREWS.

FOR TYPE "G" FOUNDATION SEE DRAWING NO. 404.207

BASE COVER
4" MIN. GROUT
AFTER POLE IS
SET AND PLUMB

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGN POST WITH
SCHOOL SIGN MOUNTED

DATE 12-12-96
DWG. NO. 404.403
SHEET 1 OF 2
3/16"x3" HI-TENSILE STEEL CLAMPS

ANGLE

1" THICK FLANGE

2" DIA. WIRING HOLE

1-1/4" THICK FLANGE

1-1/4" HI-TENSILE HEX. HEAD BOLTS AND NUTS.

DETAIL A

DETAIL B
1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH BY PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. HANDBOHE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 404.203.
LUMINAIRE ARM DATA

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<tr>
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NOTES:
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2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HAND-HOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".
5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.
6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS.
(SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.209

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX-30'-0"
SIGNAL & LUMINAIRE POLE
(45' OR LESS MAST ARMS)

DATE 9-14-06  DWG. NO. 404.406  SHEET 1 OF 6
LUMINAIRE ARM CONNECTION DETAIL

NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".
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6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLE MOUNTING DETAIL

HOT-DIP GALV. ANCHOR BOLTS W/2 HOT-DIP GALV. HEX NUTS & WASHERS PER BOLT.

CAP END OF MAST ARM

BOLTS 4-EA. 1-1/2"x4" A325-X

1/4" THK. TOP BOTTOM & SIDE GUSSETS.

4-1/2"x7" MIN. (INSIDE DIM.) HANDHOLE AND COVER (LOCATED 180° OPPOSITE MAST ARM)

2" SCH. 40 PIPE WIRE ENTRY (EDGES DEBURRED) 3" HOLE IN SHAFT.

MAST ARM CONNECTION DETAIL

BOLTS 3-EA. 3/4" x 1-3/4" A325-X

7-3/4"

6"

1/4" THK. GUSSETTS

3/4"

1"

2" DIA. WIRE ENTRY WITH EDGES DEBURRED

16 1/2" DIA. BOLT CIRCLE

SQUARE NUT FOR GROUND

BASE COVER

1/2" N.C.

1-3/4"x60"x6" BOLT

7/16" DIA. THRU HOLE

2" SCH. 40 PIPE TENON (2.375 O.D.)

1/4" THK. TOP BOTTOM & SIDE GUSSETS.

4-1/2"x7" MIN. (INSIDE DIM.) HANDHOLE AND COVER (LOCATED 180° OPPOSITE MAST ARM)

2" SCH. 40 PIPE WIRE ENTRY (EDGES DEBURRED) 3" HOLE IN SHAFT.
**LUMINAIRE ARM DATA**

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3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".
5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.
6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS. (SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.209

---

**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**TYPE XX - A - 30'-0"**

**SIGNAL & LUMINAIRE POLE**

(50' THRU 60' MAST ARMS)

**DATE** 9-14-06  **DWG. NO.** 404.406  **SHEET** 3 OF 6
BOLTS 3-EA. 3/4" x 1-3/4" A325-X

NOTES:
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDBOKE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 44" FROM THE SURFACE OF THE WALK; OTHERWISE THE HEIGHT SHALL BE 48".
5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234. ADDITIONAL CLEARANCE IS REQUIRED.
6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLE MOUNTING DETAIL

1/4" THK. GUSSETTS
2" DIA. WIRE ENTRY WITH EDGES DEBURRED

HOT-DIP GALV. ANCHOR BOLTS W/2 HOT-DIP GALV. HEX NUTS & WASHERS PER BOLT.
Effective 07/01/10 - 12/30/10

**TYPE XX**

- **A** SIGNAL: 12"- 3 SEC. W/ BACKPLATES (M-2)
- **B** SIGNAL: R3-5 24" X 30"
- **C** SIGNAL: R3-4 24" X 24"
- **D** SIGNAL: 12"- 5 SEC. W/ BACKPLATES
- **E** SIGNAL: R10-5d(8) 36" X 45"
- **F** SIGNAL: STREET NAME-FREE SWINGING-1.68" X 8"
- **G** SIGNAL: DUAL-12"- 3 SEC. W/ BACKPLATES
- **H** SIGNAL: DUAL-PEDESTRIAN

**LOADING INFORMATION**

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<tr>
<th>DEVICE</th>
<th>DESCRIPTION</th>
<th>PROJ. AREA (FT²)</th>
<th>WEIGHT (LBS)</th>
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**DESIGN CRITERIA:**

1985 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

MAXIMUM DESIGN MINIMUM YEILD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.

WIND VELOCITY:

80 MPH ISOTACH.
SIGNAL STANDARD

HANDHOLE AND COVER (SHALL FACE AWAY FROM ONCOMING TRAFFIC)

HEX HEAD NON-CORROOSIVE CAP SCREW WITH FLAT WASHER WITH A SINGLE-STRAND BARE NO. 4 AWG COPPER GROUNDING CONDUCTOR

NOTE:
EACH CONDUCTOR SHALL HAVE A MINIMUM OF 18 INCHES OF SLACK

SPLIT-BOLT CONNECTOR

#8 GREEN THWN BONDING CONDUCTOR CONNECTED TO POLE GROUND WITH SPLIT BOLT CONNECTOR

BRONZE GROUNDING CONNECTOR (UL LISTED FOR UNDERGROUND USE) FOR NO.4 WIRE

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. (GROUNDING CONFIGURATION DIFFERS FOR TYPE "L" FOUNDATION. SEE STANDARD DRAWING NO. 404.209)
1/4" NON-THREADED WITH LOCK NUT WASHER WITH DOUBLE HEX HEAD NUTS (HOLES FOR NON-THREADED SHALL BE FIELD DRILLED)

REMOVABLE MAST ARM RAIN CAP

1/2"
**LUMINAIRE ARM DATA**

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3. HANDHOLE COVERS SHALL BE ATTACHED VIA TWO SCREWS INTO PLATES MOUNTED INSIDE THE HANDHOLE.
4. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM THE BACK OF WALK. IF DISTANCE FROM BACK OF WALK TO PUSH BUTTON IS 20" TO 24", THE BUTTON SHALL BE LOCATED A MAXIMUM OF 42" FROM THE SURFACE OF THE WALK.
5. WHERE SIGNALS AND STANDARDS ARE INSTALLED BELOW OVERHEAD POWER LINES, CLEARANCES SHALL BE PER NATIONAL ELECTRIC SAFETY CODE SECTION 234 REQUIREMENTS. INSTALLATION OF STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED SHALL BE APPROVED BY THE ENGINEER.
6. IF DUAL LUMINAIRE ARMS ARE NOT SPECIFIED IN THE PLANS, THE SECOND CONNECTION POINT SHALL BE COVERED BY A COVER PLATE UNTIL SUCH TIME AS A SECOND ARM MIGHT BE ADDED.


FOR "M" TYPE FOUNDATION SEE DRAWING NO. 404.210

**UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA**

**TYPE XX - B - 30'-0" SIGNAL & LUMINAIRE POLE (65' THRU 85' MAST ARMS)**

**SPECIFICATION REFERENCE**

| Date 11/10/05 | DWG. NO. 404.406B SHEET 1 OF 3 |
Effective 07/01/10 - 12/30/10

ALTERNATE SIGN INSTALLATION

65' THRU 85' SPANS
ALTERNATE LOADING

3.3 FT.
60 LB.

15' MAX.

37' MAX.

1.5'

18.5'

NOTE:
TYPE XX-B POLE
SHALL ALSO SUPPORT
THE ALTERNATE LOADING
SHOWN ABOVE.

MAX. 85' SPAN

TYPE XX-B

<table>
<thead>
<tr>
<th>DEVICE</th>
<th>DESCRIPTION</th>
<th>PROJ. AREA (FT²)</th>
<th>WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>SIGNAL 12&quot;- 3 SEC. W/ BACKPLATES (M-2)</td>
<td>9.80</td>
<td>40</td>
</tr>
<tr>
<td>B</td>
<td>SIGN R3-5 24&quot; X 30&quot;</td>
<td>5.00</td>
<td>15</td>
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<tr>
<td>C</td>
<td>SIGN R3-4 24&quot;X 24&quot;</td>
<td>4.00</td>
<td>10</td>
</tr>
<tr>
<td>D</td>
<td>SIGNAL 12&quot;- 5 SEC. W/ BACKPLATES</td>
<td>13.68</td>
<td>80</td>
</tr>
<tr>
<td>E</td>
<td>SIGN R10-5d(8) 24&quot; X 36&quot;</td>
<td>6.00</td>
<td>15</td>
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<tr>
<td>F</td>
<td>SIGN STREET NAME-FREE SWINGING-1.68&quot; X 8&quot;</td>
<td>13.44</td>
<td>100</td>
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<tr>
<td>G</td>
<td>SIGNAL DUAL-12&quot;- 3 SEC. W/ BACKPLATES</td>
<td>17.34</td>
<td>80</td>
</tr>
<tr>
<td>H</td>
<td>SIGNAL DUAL-PEDESTRIAN</td>
<td>8.00</td>
<td>60</td>
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</tbody>
</table>

DESIGN CRITERIA:
AASHTO STANDARD SPECIFICATIONS (1994 EDITION) FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

DESIGN MINIMUM YIELD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.

WIND VELOCITY:
80 MPH ISOTACH.
NOTES:
1. CONTRACTOR TO INSTALL RED LIGHT RUNNING INDICATORS, MCCAIN MODELS M61385 (RED) & M61448 (BLUE), OR APPROVED EQUAL AS INDICATED BY THE TRAFFIC ENGINEER.
2. RED (THRU) INDICATOR SHALL BE MOUNTED 16' ABOVE POLE BASE PLATE AND BLUE (LEFT) INDICATOR SHALL BE MOUNTED 17' ABOVE POLE BASE PLATE AND SHALL FACE AWAY FROM ONCOMING TRAFFIC.
3. RED LIGHT RUNNING INDICATOR L.E.D. HOUSING SHALL BE FIELD ADJUSTED. PLEASE CONTACT THE TRAFFIC ENGINEER FOR COORDINATION.
4. CONTRACTOR SHALL WIRE INDICATORS DIRECTLY TO BUSS IN "J" BOX PER CALF OUT PHASING IN POLE SCHEDULE ON TRAFFIC SIGNAL PLANS.
Effective 07/01/10 - 12/30/10

DETAIL A-A

2" SCH. 40 PIPE
TENON WITH 7/16" THRU HOLE FOR
ELEVATOR PLUMBIZER
SEE DRAWING
NO. 404.406 SH. 2

NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN
APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER
OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED
BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED
BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE MOUNTED WITH
TAMPER-RESISTANT SCREWS.

4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR
STREET NAME SIGN ACTIVATION.

5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16
SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS.
(SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208.
NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.

5. MULTI-SIDED POLE MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS.
(SEE DRAWING NO. 404.406 SHEET 5 FOR LOADING INFORMATION)

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.209.
1 3/16" HOLE, 4 REGD.

4.506 ± .003" HOLE DIA.

45°

90°

1 1/2" R

2" R

11"

16 1/2"

5 3/4"

3 7/8"

5 7/8"

7 3/4"

4.496 ± .003 PIPE O.D.

1/4" X 4" GUSSETS - 4 REQUIRED

1 3/4" HOT-DIP GALV. ANCHOR BOLTS WITH TWO HOT-DIP GALV. HEX. HD. NUTS & WASHERS PER BOLT (4 REGD.) FOR FOUNDATION, SEE DRAWING NO. 404.208

BASE ADAPTOR PLATE
FOR TYPE "H" FOUNDATION

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SPECIFICATION REFERENCE

DATE 12-12-96 DWG. NO. 404.409 SHEET 1 OF 2

Effective 07/01/10 - 12/30/10

Effective 07/01/10 - 12/30/10
2" HOT-DIP GALV. ANCHOR BOLTS WITH TWO HOT-DIP GALV. HEX. HD. NUTS & WASHERS PER BOLT (4 REQD.) FOR FOUNDATION, SEE DRAWING NO. 404.209.
**NOTES:**

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.

2. FOR MAST ARM TENON MOUNTING AND SPACING AND ADDITIONAL INFORMATION REFER TO STANDARD DRAWING NO. 404.412

3. MULTI SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR OTHER DETAILS SEE DRAWING NUMBER 404.406 SHT 2 & 6

FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208

IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG. 406.406 SHT 3 & 6

FOR "L" FOUNDATION SEE DWG. 404.209

4" X 7" (INSIDE DIM.) HANDHOLE AND COVER
(SHALF FACE AWAY FROM ONCOMING TRAFFIC)
BASE COVER

---

**UNIFORM STANDARD DRAWINGS**

**CLARK COUNTY AREA**

**30' POLE WITH SCHOOL FLASHING SIGN**

**DATE** 9-14-06  **DWG. NO.** 404.410  **SHEET** 1 OF 1
NOTES:

1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.

2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.


4. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

5. SCHOOL SIGN SHALL BE MOUNTED AS SHOWN IN STANDARD DRAWING NO. 404.410

6. REFER TO DRAWING NO. 404.407 SHEET 1 OF 2 IF XX-20 POLE IS REQUIRED.

7. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR "H" TYPE FOUNDATION DRAWING NO. 404.208

IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG. 406.406 SHT 3 & 6
FOR "L" FOUNDATION SEE DWG. 404.209

SCHOOL SIGN POLE
TYPE XX-A

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE 04-12-07  DWG. NO.  404.412
NOTES:

1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.

2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUMCO PART NO. 769-6, AND SHALL HAVE (4) FOUR BOLTS.

3. BRACE ASSEMBLY TO BE USED ON 30' POLES ONLY. TO BE MOUNTED 20' FROM POLE BASE.

4. WHEN VOLTAGE EXCEEDS 120V, A STEP-DOWN TRANSFORMER SHALL BE SUPPLIED.

5. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.
NOTES:

1. COMPLETE BACK BRACE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE BRACE ASSEMBLY SIMILAR TO PUMCO PART NO. 769-6, AND SHALL HAVE (4) FOUR BOLTS.
3. BRACE ASSEMBLY TO BE USED ON 30' POLES ONLY. TO BE MOUNTED 24' FROM POLE BASE.
4. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE III POLE WITH
ILLUMINATED STREET NAME SIGN

DATE 12-12-96   DWG. NO. 404.415   SHEET 1 OF 1
NOTES:

1. FOR TYPE XX POLE SPECIFICATIONS SEE DRAWING NO. 404.406.

2. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.
NOTES:

1. OVERHEAD UTILITY LINES SHALL BE CLEAR OF HIGHEST BACK PLATE ON ANY GIVEN SIGNAL ARM AND LOWEST PLATE OF STREET NAME SIGN.

2. ANY UTILITY CABLE BEING INSTALLED WITHIN THE CLEARANCE ZONE SHALL NEED PRIOR APPROVAL FROM THE TRAFFIC ENGINEERING DIVISION WHO CONTROLS THE RIGHT OF WAY.

3. PARTIES SHALL COORDINATE AND CONCUR ON CABLE AND SIGNAL INSTALLATIONS TO AVOID CREATION OF CROSSING CONFLICTS WITHIN THIS CLEARANCE ZONE.
NOTES:
1. SIGN SHALL BE DOUBLE FACED.
2. ALUMINUM EXTRUSION CABINET 12" DEEP - MILL FINISH WITH ALL ALUMINUM INTERNAL STRUCTURE.
3. TOP-HINGED RETAINER SYSTEM WITH PROP ROD FOR ACCESS AND SERVICE.
4. T12 800MA CWHO FLUORESCENT ILLUMINATION INTERNALLY.
5. SIGN PANEL SHALL BE WHITE WIDE-ANGLE PRISMATIC TRANSLUCENT REFLECTIVE SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAYED WITH GREEN ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A POLYCARBONATE CLEAR SUBSTRATE, 0.177" THICK.
6. LETTERS SHALL BE 8" SERIES E AND UNLESS OTHERWISE SPECIFIED BY THE TRAFFIC ENGINEER, SHALL BE ALL UPPERCASE WITH NO STREET NAME SUFFIX. IF NECESSARY TO MAKE SPACING FIT, REDUCE TO 8" SERIES D. SPACING BETWEEN LETTERS MAY BE INCREASED BY UP TO 25% (MAX) TO ACHIEVE 4" END SPACES.
7. STEEL BRACKETS SHALL BE USED FOR FLAG MOUNT POLE ATTACHMENT.
8. THE USE OF THE POLE MOUNTED STREET NAME SIGN SHALL BE APPROVED BY THE ENTITY ENGINEER.
INSTALLATION INSTRUCTIONS

* ATTACH BRACKETS (1) TO CABINET END AT TOP AND BOTTOM WITH BOLTS PROVIDED LOOSELY TIGHTEN BOLTS (SNUG).

* LIFT CABINET WITH BRACKETS TO POLE AT FINISHED HEIGHT USING A NYLON LIFTING SNAP NEAR THE BRACKETS (WHERE BALANCED).

* ATTACH BRACKET HALVES (2) TOGETHER AROUND POLE WITH PROVIDED HARDWARE AS SHOWN.

* MOVE LIFTING STRIP TO CENTER OF CABINET & LEVEL THEN TIGHTEN BOLTS INTO CABINET.

* ATTACH SET SCREWS (3) THROUGH BRACKET INTO POLE AS SHOWN.

* HOOK UP ELECTRICAL CONNECTION (SEE PAGE 2 FOR AN EXAMPLE).

WIRING RECOMMENDATIONS

* LOCATE & DRILL A 3/4" DIA. HOLE (A) THRU POLE. THREAD HOLE WITH 1/2" PIPE THREAD TAP.

* PULL WIRES FROM GROUND THRU TAPPED HOLE GUIDE WIRES TO AVOID SCRAPING INSULATION.

* ASSEMBLE LIQUID TIGHT 1/2" CONDUIT (B) & FITTING (C) TO CONNECT POLE TO CABINET.

* FEED WIRES THRU CONDUIT & INTO CABINET, USE A 2X4 HANDY BOX INSIDE OF CABINET TO FACILITATE WIRE PULLING.

* AFTER FEEDING WIRES, THEN THREAD FITTINGS INTO THREADED HOLE IN POLE & CABINET.

* WIRED BALLAST INSIDE CABINET AS REQUIRED.

NOTE: THE STREET NAME SIGN SHALL BE MOUNTED 18" ABOVE THE MAST ARM

<table>
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<tr>
<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED BRACKET DETAIL</td>
</tr>
<tr>
<td></td>
<td>DATE 11/10/05</td>
</tr>
</tbody>
</table>
NOTES:
1. THE BRACKET AND STRAP ARE OF THE BANDIT TYPE OR EQUIVALENT.
2. 2. BRACKETS ARE REQUIRED; AND IF THE SIGN IS GREATER THAN 48" IN SIZE - 3 BRACKETS ARE REQUIRED.
NOTES:

1. N, E, S, or W required on all block number signs with a space between the letter and the numbers. (i.e. W 6900)

2. Street name sign wiring to run through two (2) Seal-Tite 90° fittings with liquid-tight flexible conduit. Use a drip loop sufficient enough to allow sign to swing freely.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

BLOCK NUMBER SIGN

DATE 4-9-98  DWG. NO. 404.420  SHEET 1 OF 1
NOTES:
1. COMPLETE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE ASSEMBLY SIMILAR TO PUMCO PART NO. 207-769-6.
3. THIS ASSEMBLY TO BE USED ON EXISTING 30' POLES ONLY.
(4) 1/2'' - 13 N.C. X 2'' HEX HEAD
MACH. BOLTS W/(4) 1/2'' - 13 N.C.
HEX. NUTS (GALVANIZED)

CLAMP RANGE
3 3/4'' TO 4'' O.D.

8' SPAN (NOM.)
4''

12'' STRAIGHT
21'' 7/8'' R.

2'' STD. PIPE
(2.375'' O.D.)

EXISTING ROUND STEEL POLE
W/ SIMPLEX ATTACHMENT

CLAMP

44''

6-9'' RISE

3/16''

6''

EXISTING ARM ATTACHMENT
(ONE BOLT SIMPLEX)
USE FOR WIRING ENTRANCE

BRACKET RATING
MAX. LUMINAIRE AREA = 2.7 FT^2
MAX. LUMINAIRE WT. = 57 LBS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

RETROFIT STREETLIGHT
MAST ARM

DATE DWG. NO. 404.503 SHEET 1 OF 1
NOTES:

1. POLE DRILLING ARE TO BE ORIENTED ACCORDING TO POLE LAYOUT. SPECIFICATIONS AND ENGINEER.

2. ALL HOLES ARE TO CONFORM TO HANFORD SSD RECOMMENDATION.

3. PEDESTRIAN Signal HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS AND PLUMBING NOT LESS THAN 10'/6' ABOVE SIDEWALK LEVEL.

4. TRAFFIC SIGNAL HEADS WITH CLAM SHELL BRACKET = 6'/0'

5. TRAFFIC SIGNAL HEADS = 10'/6'

6. MESSAGE HEADS AND 2 COLOR PEDESTRIAN HEADS = 7'/6'

7. TRAFFIC SIGNAL HEADS = 10'/6'

EXCEPT LEFT TURN

RAIN BUCKET DRILLING DETAIL

SIDE BRACKET DRILLING DETAIL

POLE PLATE DRILLING DETAIL
NOTE:
FOR POLE LOCATION ON RIGHT TURN ISLAND SEE DRAWING NO. 404.1301.
DIRECTION OF TRAVEL

TO PULL BOX IN ISLAND

SEE PLANS

TO PULL BOX IN SIDEWALK

OVERLAP ALL CUTS TO MAINTAIN FULL SLOT DEPTH FOR WIRES

6"

3/8" X 2" MIN.

A-A

A-A (AFTER INSTALLATION)

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SAWCUT DETAILS
FOR INDUCTION LOOPS

DATE  DWG. NO.  404.810  SHEET  1 OF 1
4" HOLE, FILL WITH SAND TO WITHIN 1 INCH OF TOP. TOP 1 INCH TO BE FILLED WITH EPOXY.

CAP CONDUIT

1" DIA. PVC STUB

8" MAX

LOOP WIRES

PULL BOX

LOOP CABLE

CONDUIT TO CONTROLLER

NOTE:
PATCH SLOT AND HOLE WITH EPOXY, REMOVE OVERFLOW BEFORE IT HARDENS.
NOTE:

1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TRANSMISSION WIRES IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE DRAWING NO. 404.611 FOR METHOD OF INSTALLING PULL BOX.

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

SEE PLANS

SECTION A-A

SECTION B-B

WIRING DIAGRAM

SAW CUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAW CUT DETAILS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

1 INDUCTION LOOP
FOR 1 TRAVEL LANE

DATE

DWG. NO.
404.820

SHEET 1 OF 1
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE PLANS

WINDING DIRECTION

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX

DIRECTION OF TRAVEL

DIRECTION OF TRAVEL

WIRING DIAGRAM

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

| SPECIFICATION REFERENCE | UNIFORM STANDARD DRAWINGS
|-------------------------|--------------------------|
|                         | CLARK COUNTY AREA

1 INDUCTION LOOP
FOR 2 TRAVEL LANES

DATE | DWG. NO. | SHEET
-----|----------|-----
      | 404.821  | 1 OF 2
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

WINDING DIRECTION

A A

DIRECTION OF TRAVEL

SEE PLANS

B B

DIRECTION OF TRAVEL

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

A-A

SEE DRAWING NO. 404.810 FOR METHOD OF INSTALLING PULL BOX

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

B-B

SAWCUT DIAGRAM

6'

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

2 INDUCTION LOOPS
FOR 2 TRAVEL LANE

DATE

DWG. NO. 404.821

SHEET 2 OF 2
2 turns of wire shown. Always install 2 turns of cable in duct unless otherwise specified on plans. Winding direction shall be indicated on wire.

See drawing No. 404.811 for method of installing pull box.

Winding direction

See plans

Direction of travel

Wiring diagram

Depth to allow 3/4" from top wire to surface.

3/8"

A-A

Sawcut diagram

See drawing No. 404.810 for sawcut details.
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

WINDING DIRECTION

SEE PLANS

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

3/8"

DIRECTION OF TRAVEL

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

3 INDUCTION LOOPS
FOR 3 TRAVEL LANES

DATE  DWG. NO. 404.822  SHEET 2 OF 2
NOTE:
2 TURNS OF WIRE SHOWN. ALWAYS INSTALL 2 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX.

WINDING DIRECTION

SEE PLANS 48" MAX

DIRECTION OF TRAVEL

WIRING DIAGRAM

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE.

3/8"

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
NOTE:
2 turns of wire shown. Always install 2 turns of cable in duct unless otherwise specified on plans. Winding direction shall be indicated on wire.

WINDING DIRECTION

SEE PLANS

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE

A-A

DIRECTION OF TRAVEL

Sawcut diagram

See drawing no. 404.810 for sawcut details.

* Professional electrical engineer stamp on file.

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<thead>
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<table>
<thead>
<tr>
<th>Uniform Standard Drawings</th>
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<tbody>
<tr>
<td>Clark County Area</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 induction loops</th>
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<tbody>
<tr>
<td>for 4 travel lanes</td>
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Date | DWG. No. | Sheet |
-----|----------|-------|
      | 404.823  | 2     |

Effective 07/01/10 - 12/30/10
NOTES:
1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.

2. TRAFFIC ENGINEER SHALL ESTABLISH LATERAL LOCATIONS ON ROADS WITHOUT MARKED LANES.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX.

WIRING DIAGRAM

DIRECTION OF TRAVEL

OMIT THIS LOOP WHEN 2 LOOPS ARE SHOWN ON THE PLANS.

YELLOW

RED

A

B

A

B

2'

2'

SEE PLANS

SEE PLANS

SEE PLANS

SAWCUT DIAGRAM

DEPTH TO ALLOW 3/4" FROM TOP WIRE TO SURFACE.

A-A

B-B

3/8"
NOTES:
1. FRONT OF THE LOOP MUST EXTEND INTO THE CROSSWALK 2' TO 4'.
2. INSULATION TEST FOR EACH LOOP TO GROUND MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)
3. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
4. SEE DRAWING NO. 404.829 FOR WIRING CONNECTIONS.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX ALL WIRES INTO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

SEE DRAWING NO. 404.829 FOR WIRE CONNECTIONS.
SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

WIRING DIAGRAM
NOTES:

1. FRONT OF THE LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.
2. INSULATION TEST FOR EACH LOOP TO GROUND MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)
3. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX ALL WIRES INTO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

SEE DRAWING NO. 404.829 FOR WIRE CONNECTIONS.
SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.
TYPE "QUADRUPOLE" LOOP INSTALLATION

WHENEVER MORE THAN ONE LOOP TERMINATES IN A PULL BOX, ALL LEADS MUST BE TAGGED AND IDENTIFIED.

NOTES:
1. FOR ALL LOOPS, TWO TURNS ARE REQUIRED.
2. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.

---

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "QUADRUPOLE" LOOP INSTALLATION

DATE  DWG. NO.  404.828  SHEET  1 OF 1
SEE DRAWING NO. 404.827 FOR LOOP LAYOUT

1A RED 1 FROM CONTROLLER

2 BLUE

2A 3

3 YELLOW

3A 4 WHITE 4A TO CONTROLLER

SEE DRAWING NO. 404.826 FOR LOOP LAYOUT

3A YELLOW 3 2A

2 BLUE 2 1A

1A RED 1 FROM CONTROLLER

4 WHITE 4A 5

5 RED 5A 6

6 BLUE 6A TO CONTROLLER

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

WIRE DIAGRAMS FOR MULTIPLE LOOP SYSTEMS FOR LEFT TURN POCKET AND THRU LANE

DATE 12-12-96  DWG. NO. 404.829  SHEET 1 OF 1
1. INSULATION FOR EACH LOOP MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)
2. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
3. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX ALL WIRES TO PULL BOX MUST BE TAGGED AND WINDING DIRECTION SHALL BE MARKED.

DIRECTION OF TRAVEL

SAWCUT DIAGRAM

WIRING DIAGRAM

SPECFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CIRCULAR INDUCTION LOOPS
FOR TRAVEL LANES

DATE | DWG. NO.  | SHEET
--- | --- | ---

Effective 07/01/10 - 12/30/10
NOTES:
1. CAST ALUMINUM HOUSING.
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.

FOR FLAT SURFACE MOUNTING
FOR SIGNAL STANDARD MOUNTING
FOR 2-1/2" IPS MOUNTING

NOTES:
1. AT LOCATIONS WHERE "WALK" "DON'T WALK" SIGNALS ARE PROVIDED, PROVIDE BLACK LETTERING ON A WHITE BACKGROUND ON PORCELAIN SIGNS.
2. AT LOCATIONS WHERE "SYMBOLIC" SIGNALS ARE PROVIDED, PROVIDE WHITE FIGURES ON A BLACK BACKGROUND.
3. MOUNTING SURFACE FOR THE SIGNS SHALL BE 9" X 12".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PEDESTRIAN PUSH BUTTON DETECTORS

DATE  DWG. NO.  SHEET  
404.851  1 OF 1
PAINT: FLAT BLACK
SHOWN 3 SECTION, 12" SIGNAL HEAD WITH ELEVATOR PLUMBIZER
PAINT: FLAT BLACK
SHOWN 3 SECTION, 12" SIGNAL HEAD BACKPLATE WITHOUT ELEVATOR PLUMBIZER
PAINT: FLAT BLACK
SHOWN 5 SECTION, 12" SIGNAL HEAD BACKPLATE WITHOUT ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

LOUVERED BACKPLATE FOR
5 SECTION SIGNAL HEAD

DATE   DWG. NO.  404.902   SHEET 1 OF 1
PAINT: FLAT BLACK

SHOWN 5 SECTION, 12" SIGNAL
HEAD BACKPLATE WITH
ELEVATOR PLUMBIZER

REFER TO DRAWING NO. 404.1029

<table>
<thead>
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<td>CLARK COUNTY AREA</td>
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LOUVERED BACKPLATE FOR
5 SECTION SIGNAL HEAD

DATE 05/20/10  DWG. NO. 404.903
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<td>2.</td>
<td>ELEVATOR PLUMBIZER</td>
<td>404.1203</td>
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<td>3.</td>
<td>POLE PLATE WITH WIRE GUIDE</td>
<td>404.1204</td>
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<tr>
<td>4.</td>
<td>2-WAY TIE BRACE</td>
<td>404.1200</td>
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<td>6.</td>
<td>4-WAY TIE BRACE</td>
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<tr>
<td>7.</td>
<td>SPECIAL ELBOW</td>
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<tr>
<td>8.</td>
<td>SPECIAL TEE</td>
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</tr>
<tr>
<td>9.</td>
<td>MALLEABLE ELBOW-REAMED/SET SCREW</td>
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<tr>
<td>10.</td>
<td>MALLEABLE ELBOW/SIDE OUTLET/REAMED/SET SCREW</td>
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</tr>
<tr>
<td>11.</td>
<td>MALLEABLE TEE, REAMED/SET SCREW</td>
<td>404.1206</td>
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<tr>
<td>12.</td>
<td>MALLEABLE TEE/SIDE OUTLET, REAMED/SET SCREW</td>
<td>404.1206</td>
</tr>
<tr>
<td>13.</td>
<td>MALLEABLE CROSS, REAMED/SET SCREW</td>
<td>404.1206</td>
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<tr>
<td>14.</td>
<td>MALLEABLE CROSS/SIDE OUTLET, REAMED/SET SCREW</td>
<td>404.1206</td>
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<tr>
<td>15.</td>
<td>4-WAY CENTER HUB</td>
<td>404.1205</td>
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<tr>
<td>16.</td>
<td>POST TOP MOUNTED BRACKET</td>
<td>404.1202</td>
</tr>
<tr>
<td>17.</td>
<td>SIDE BRACKET MOUNTED ADAPTER WITH TERMINAL COMPT.</td>
<td>404.1208</td>
</tr>
<tr>
<td>18.</td>
<td>POST TOP MOUNTED ADAPTER WITH TERMINAL COMPT.</td>
<td>404.1207</td>
</tr>
<tr>
<td>19.</td>
<td>LOCKING RING</td>
<td>404.1200</td>
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<tr>
<td>20.</td>
<td>ORNAMENTAL CAP</td>
<td>404.1200</td>
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<tr>
<td>21.</td>
<td>POST TOP MOUNTED ADAPTER WITH 3 PORTS</td>
<td>404.1208</td>
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<tr>
<td>22.</td>
<td>LOCKING NIPPLE</td>
<td>404.1200</td>
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<tr>
<td>23.</td>
<td>POLE PLATE</td>
<td>404.1201</td>
</tr>
<tr>
<td>24.</td>
<td>1-1/2&quot; MENERALLAC STRAP OR APPROVED EQUAL</td>
<td>404.1029</td>
</tr>
</tbody>
</table>
1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
NOTES:
1. ON LOWER ASSEMBLY, ALL INDICATIONS ARE 12" NOMINAL (GLASS).
2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.
3. ON TOP ASSEMBLY, USE M-3 WITH BACKPLATE.
4. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.
5. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
6. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
NOTES:
1. PROVIDE BACKPLATE ON A-8T.
2. ALL INDICATIONS ARE 12" NOMINAL (GLASS).
3. SEE DRAWING NO. 404.1410 OR ARROW LENS.
4. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

SPECIFICATION REFERENCE | UNIFORM STANDARD DRAWINGS
---------------------------|----------------------------------
                          | CLARK COUNTY AREA

SIGNAL ASSEMBLIES
A-8T, A-9T

DATE 2-11-93 | DWG. NO. 404.1015 | SHEET 1 OF 1
NOTES:

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

2. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.

3. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
NOTES:

1. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. PROVIDE BACKPLATE ON A-13T ONLY.
4. ALL SIGNALS ARE 12" NOMINAL (GLASS).
NOTES:
1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
3. FOR ARROW LENS SEE DRAWING NO. 404.1410.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
OPTIONAL CUTOFF LOUVERS SEE NOTE 5

NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS).

2. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.

3. FOR ARROW LENS SEE DRAWING NO. 404.1410.

4. SEE PLANS FOR BACKPLATE REQUIREMENTS.

5. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. SEE PLANS FOR BACKPLATE REQUIREMENTS.
4. ALL SIGNALS ARE 12" NOMINAL (GLASS).
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS)
2. FOR ITEMIZED PARTS, SEE DRAWING 404.1005.
**NOTES:**

1. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEAD.
2. ALL M-2 INDICATIONS ARE 12" NOMINAL (GLASS).
3. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
4. SEE SIGNAL PLANS FOR BALL OR ARROW INDICATIONS.
1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2A INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.
5. THIS HEAD ASSEMBLY SHALL BE USED ONLY ON THE END OF THE MAST ARM.
NOTES:

1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2B INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.
NOTES:

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.

3. ALL INDICATIONS ARE 12" NOMINAL. SEE SUB-SECTION 623 T.02.08 FOR SPECIFICATIONS.

4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.

5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

6. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".
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<td></td>
<td><strong>SIGNAL ASSEMBLIES</strong></td>
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<td>B-5T, B-6T</td>
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**NOTES:**

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.
3. ALL INDICATIONS ARE 12" NOMINAL (GLASS).
4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.
5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
6. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".
NOTES:
1. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. ALL SIGNALS ARE 12" NOMINAL (GLASS) UNLESS NOTED.
NOTES:

1. ALL SIGNALS ARE 12" NOMINAL (GLASS).
2. FOR ITEMIZED PARTS SEE DRAWING 404.1005.
3. FOR ARROW LENS SEE DRAWING 404.1410.
4. SEE PLANS FOR BACKPLATE REQUIREMENTS.
5. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS ON 5-SECTION HEADS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.

2. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEADS.

3. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.

4. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

5. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".

PROGRAMMED VISIBILITY HEAD

R OR RED ARROW

YELLOW ARROW

GREEN ARROW

B-12T

PROGRAMMED VISIBILITY HEAD

R OR RED ARROW

YELLOW ARROW

GREEN ARROW

B-13T
NOTES:

1. FOR ITEMIZED PARTS SEE DRAWING NO. 404.1005.
2. FOR ARROW LENS SEE DRAWING NO. 404.1410.
3. SEE PLANS FOR BACKPLATE REQUIREMENTS.
4. ALL SIGNALS ARE 12" NOMINAL. SEE SUB-SECTION 623 T.02.08 FOR SPECIFICATIONS.
5. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS ON 5-SECTION HEADS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
NOTES:

1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3" CUTOFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.
## FW 2933 AND SIGNAL ASSEMBLY

FRAMEWORK -- CLUSTER MOUNTING  
1 WAY, 5 COL., 12" ALUMINUM SIGNAL  
WITH ELEVATOR PLUMBIZER

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<td>2</td>
<td>E205P1</td>
<td>TOP BRACKET W/COVER</td>
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<td>E1270P1</td>
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<td>E1206P</td>
<td>ORNAMENT</td>
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<td>6</td>
<td>E1251P1</td>
<td>WASHER, NEOPRENE</td>
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<td>7</td>
<td>55712P6</td>
<td>CONDUIT LOCKNUT</td>
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<td>8</td>
<td>E789P1</td>
<td>ATTACHING WASHER</td>
<td>2</td>
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<td>9</td>
<td>E788P2</td>
<td>ATTACHING BOLT</td>
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<td>ATTACHING NUT</td>
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<td>E4955P1</td>
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<td>YELLOW BALL LENS</td>
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| SPECIFICATION REFERENCE | UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA |
|-------------------------|--------------------------|
|                         | TYPE: M-5 ASSEMBLIES  
AND PARTS LIST |
|                         | DATE | DWG. NO. | SHEET |
|                         |      | 404.1031 | 3 OF 3 |
NOTES:

1. FOR GENERAL SPECIFICATIONS SEE TRAFFIC SIGNAL PLANS.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
3. THE HAND SYMBOL (DON'T WALK) IS PORTLAND ORANGE AND HUMAN SYMBOL (WALK) IS LUNAR WHITE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PEDESTRIAN SIGNAL ASSEMBLIES
W-0T, W-1, W-2T, W-3T, W-1T

DATE 12-12-96  DWG. NO. 404.1032  SHEET 1 OF 1
**NOTE:** TAMPER-PROOF SCREWS TO BE USED.
STANDARD FULL CIRCLE VISOR

18" NOMINAL

LEAF ANGLE-SHOWN
RIGHT ANGLE-REVERSE

STANDARD ANGLE VISOR

VISORS (FOR 8" HEADS)

PAINT: FLAT BLACK ON INSIDE,
OUTSIDE PAINT COLOR SHALL MATCH SIGNAL HOUSING.
NOTE:
ALL BOLTS, NUTS AND WASHERS SHALL BE BRASS OR STAINLESS STEEL.
72 TEETH - 1/2" HIGH ALL AROUND

LOCKING RING - 1/2 PIN
MATERIAL: BRONZE

TIE BRACE, FERROUS, 2 WAY
PAINT COLOR SHALL MATCH SIGNAL HOUSING

TIE BRACE, FERROUS, 3 WAY
PAINT COLOR SHALL MATCH SIGNAL HOUSING

TIE BRACE, FERROUS, 4 WAY
PAINT COLOR SHALL MATCH SIGNAL HOUSING

ORNAMENTAL CAP
DIE CAST ALUMINUM
PAINT COLOR SHALL MATCH SIGNAL HOUSING

LOCKING NIPPLE

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MISCELLANEOUS SIGNAL MOUNTING HARDWARE

DATE | DWG. NO. | SHEET
-----|----------|------
     | 404.1200 | 1 OF 1
1. MATERIAL - BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.

NOTES: DO NOT PROVIDE UNLESS SPECIFIED ON THE PLANS.
FERROUS SPECIAL TEE
PAINT COLOR SHALL MATCH SIGNAL HOUSING

72 TEETH - 1/16" HIGH ALL AROUND
1-1/2" PIPE THREAD

FERROUS SPECIAL ELBOW
PAINT COLOR SHALL MATCH SIGNAL HOUSING

72 TEETH - 1/16" HIGH ALL AROUND
1-1/2" PIPE THREAD

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MISCELLANEOUS SIGNAL MOUNTING HARDWARE

DATE | DWG. NO. | SHEET
--- | --- | ---
 | 404.1202 | 1 OF 1
NOTES:
1. MATERIAL - BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING

ELEVATOR PLUMBIZER
NOTES:

1. MATERIAL-BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.
3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.

SECTION A-A

CURVED WASHER

WASHER CURVED TO FIT STANDARD

5/8" HOLE

1-1/2" PIPE THREADS

3/8" R (TYP.)
LIST OF MATERIALS

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<th>DESCRIPTION</th>
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<td>1.</td>
<td>2</td>
<td>1/4&quot; - 20 UNC-2A X 3/8&quot; SOCKET, CUP SET SCREW</td>
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<tr>
<td>2.</td>
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<td>CORK GASKET TO MATCH COVER</td>
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<tr>
<td>3.</td>
<td>1</td>
<td>3/32&quot; STEEL COVER WITH 2 BOLT HOLES OPPOSITE</td>
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<td>STANDARD LOCK WASHER</td>
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<td>5</td>
<td>3/8&quot; - 16 UNC-2A X 1&quot; BRASS HEX. HD CAP SCREW 2 REQ.</td>
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**NOTES:**

1. PAINT COLOR AND FINISHING SHALL MATCH SIGNAL HOUSING
2. MATERIAL: HIGH STRENGTH CAST ALUMINUM ALLOY

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

4 WAY CENTER HUB

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<td>1 OF 1</td>
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NOTES:

1. REAM FOR 1-1/2" IPS. PROVIDE SET SCREW.
2. ALL OTHER OPENINGS SHALL BE THREADED.
3. PAINT COLOR SHALL MATCH SIGNAL HOUSING.
6-3/8 x 5/8 SQUARE HEAD SET SCREW

WEATHERPROOF GASKET

SECTION A-A

COVER PLATE

5-1/2" MIN.

15" MIN.

OMIT HOLE AND BOSS ON TWO-WAY TERMINAL COMPARTMENT

SCREW TO BE CADMIUM PLATED STEEL

4-1/2" SLIP FITTER

NOTES:

1. MATERIAL - ALUMINUM
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE 12 POSITION PRESSURE TYPE TERMINAL BLOCK MOUNTED INSIDE COMPARTMENT

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

POST TOP MOUNTED ADAPTER
WITH TERMINAL COMPARTMENT

DATE

DWG. NO. 404.1207

SHEET 1 OF 1
NOTES:
1. MATERIAL - ALUMINUM
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE 12 POSITION PRESSURE TYPE TERMINAL
   BLOCK MOUNTED INSIDE COMPARTMENT

FOR COVER, SEE DRAWING NO. 404.1207

SIDE BRACKET MOUNTED
ADAPTER WITH WIRE GUIDE
NOTES:

1. THE DEVICES WILL BE CONSTRUCTED OR CAST IN ACCORDANCE WITH SPECIAL PATENTED DEVICES, MATERIALS, AND PROCESSES.

2. SIGNAL HEAD MOUNT AND FLANGE ADAPTER WILL BE OF HIGH STRENGTH CAST ALUMINUM.

3. SIGNAL HEAD MOUNT SHALL BE FASTENED TO FLANGE ADAPTER BY MEANS OF FOUR COMMON STRUCTURAL STEEL BOLTS PER SPEC. EACH WITH TWO FLAT WASHERS, LOCK WASHER AND NUT.

4. ALL BOLTS, NUTS, AND WASHERS REQUIRED SHALL BE AS REGULARLY SUPPLIED BY THE MANUFACTURER.

5. ONE-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR ONE-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.

6. TWO-WAY MOUNT SHALL BE USED WHEN PLANS OR SPECIAL PROVISIONS CALL FOR TWO-WAY SIGNAL MOUNTED ON SIGNAL MAST ARM.

7. TWO SIGNAL INDICATIONS SHALL BE MOUNTED BELOW THE MOUNT AND ALL REMAINING SIGNAL INDICATIONS MOUNTED ABOVE.

TAPERED ALUMINUM PLUMBING ADJUSTMENT WASHERS (2-1/2” I.D. - 4” O.D. - MINIMUM THICKNESS TOGETHER APPROX. 1-1/8”) 11 G

FOUR 7/16” DIA. EQUALLY SPACED HOLES CENTERED ON A 4-3/4” DIA. CIRCLE.
FLANGE DETAIL
2" WELDED TYPE ADAPTER

FLANGE WELDED TO MAST ARM OR FLANGE ADAPTOR (SEE DETAIL)

FLAT WASHER (FOUR)

3/8" DIA.

5/16" x 13/16" DIA.

2-13/32" DIA.

TAPERED ALUMINUM PLUMBING ADJUSTMENT WASHERS (TWO)

3/4" x 3/8" DIA. BOLT AND NUT (FOUR)

M AST ARM

FLAT WASHER (FOUR)

4" x 4"

1/2" x 1/2"

2-3/8" O.D.

SAFETY CHAIN HOLE

FILLET WELD

2-3/8" DIA. HOLE

5-3/4" DIA. 1/4" THK. MINIMUM

FOUR 7/16" DIA. HOLES EQ. SPACED ON A 4-3/4" DIA. BOLT CIRCLE

FOUR 1/16" PROTRUSIONS FOR SIGNAL HEAD DEPRESSIONS ON BOTH EXTERIOR SIDES.

NOTE:
FLANGE TO BE WELDED TO MAST ARM SLIPFITTER 4" FROM THE END.

SECTION THROUGH ONE-WAY MOUNT

1/16" PROTRUSIONS
SEE DETAIL "A"

3/32" x 3/32" "O" RING GROOVE BOTH SIDES
3/8"

3/64" DEEP x 3/8" WIDE CIRCULAR INDENTATION BOTTOM SIDE ONLY

1/16" PROTRUSIONS
NOTE:
1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.
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1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY’S TRAFFIC ENGINEER.
NOTE:
SIDEWALK RAMPS IN ACCORDANCE WITH DRAWING NO. 235 SHALL BE CONSTRUCTED. HANDICAPPED ACCESS MUST BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
NOTE:
1. SEE PLANS FOR FOUNDATION TYPE.
NOTES:

1. FOUNDATIONS WILL BE 36" SQUARE OR ROUND AND 12 FT. DEEP. THE AREA SHALL REMAIN ACCESSIBLE FOR THESE FOUNDATIONS.

2. TRAFFIC SIGNAL POLES SHALL REMAIN AT THE MIDDLE OF THE RETURN BEHIND THE SIDEWALK SO THAT THE OUTSIDE SIGNAL HEAD IS DIRECTLY ABOVE THE LEFT TURN LANE.

3. A TYPE "H" OR "L" FOUNDATION IS REQUIRED FOR MAST ARMS 45' OR LESS. SEE DRAWING NO. 404.208.

4. A TYPE "L" FOUNDATION IS REQUIRED FOR MAST ARMS LONGER THAN 45'. SEE DRAWING NO. 404.209.

5. A MINIMUM OF 32" SHALL BE MAINTAINED BETWEEN TRAFFIC SIGNAL POLE FOUNDATION "CRASH CAP" AND THE BACK OF THE CURB FOR WHEELCHAIR CLEARANCE.

6. THE TRAFFIC ENGINEER WILL MAKE THE FINAL DETERMINATION FOR THE LOCATION OF TRAFFIC SIGNAL POLES.
NOTES:

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A123.

2. ELECTRIC UTILITY TO SHOW FEEDER TO SERVICE PEDESTAL.

3. FOR POLE, POLE FOUNDATION, SERVICE PEDESTAL AND SERVICE PEDESTAL FOUNDATION DETAILS, SEE CLARK COUNTY AREA UNIFORM STANDARD DRAWINGS.

4. EXTEND THE 2-2" PVC, THE 2-3" AND THE 1-PER TABLE PVC SCHEDULE 40, 5 FEET PAST EDGE OF PAVEMENT STUB AND CAP OR CONNECT TO THE EXISTING TRAFFIC SIGNAL CONDUIT.

5. ALL EMPTY CONDUIT WILL CONTAIN A SINGLE NO. 8 AWG THW OR BARE COPPER WIRE FOR THE PURPOSE OF LOCATING THE CONDUIT.
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5. ALL EMPTY CONDUIT WILL CONTAIN A SINGLE No. 8 AWG THW OR BARE COPPER WIRE FOR THE PURPOSE OF LOCATING THE CONDUIT.
NOTES:
1. ALL ITS CONDUITS SHALL HAVE A 6-PAIR, REA-PE30 #22 AWG TWISTED WIRE PAIR CABLE INSTALLED.
2. ANY EXISTING ITS CONDUITS FROM THE OPPOSING SIDE OF THE STREET SHALL BE CONNECTED TO PROPOSED CONDUITS USING THE SAME SIZE CONDUIT. IF UNDERGROUNDS DO NOT EXIST, THEN PROPOSED CONDUITS SHALL BE EXTENDED 5' PAST THE EXISTING OR PROPOSED EDGE OF PAVEMENT TO A #3-1/2 PULL BOX MARKED “FIBER OPTIC”.
3. FIBER OPTIC CONDUIT SHALL BE INSTALLED WITH P30 PULL BOXES PLACED AT A MAXIMUM SPACING OF 1000', BUT SHALL NOT BE INSTALLED WITHIN 5' OF THE POINT OF CURVATURE (PC) OF THE R/W RADIUS, IN SIDEWALK RAMPS OR DRIVEWAYS. THE ITS CONDUITS SHALL BE CONNECTED TO THE EXISTING ITS CONDUITS OR, IF NOT EXISTING, AN ADDITIONAL P30 PULL BOX SHALL BE INSTALLED AT THE PROPOSED DEVELOPMENT'S PROPERTY LINE.
4. ALL CONDUIT BENDS SHALL BE PVC COATED RIGID W/ A MINIMUM RADIUS OF 36 INCHES.
5. ALL ITS PULL BOXES SHALL HAVE A POLYMER COMPOSITE BODY W/ RESIN POLYMER REINFORCED NON-CONDUCTIVE COVER MARKED “FIBER OPTIC”.
6. UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED 12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED WITH THE LEGEND “FIBER OPTIC”.
7. IF TRAFFIC SIGNAL CABINET EXISTS OR IS BEING INSTALLED ON CORNER, INSTALL TYPE 200 VAULT PER 404.133 AND 404.1308 WITH ITS CONDUIT INTO TRAFFIC SIGNAL CABINET. IF TRAFFIC SIGNAL CABINET DOES NOT EXIST OR IS NOT BEING INSTALLED IN CORNER, INSTALL P30 PULL BOX.

<table>
<thead>
<tr>
<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</th>
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<tbody>
<tr>
<td>620</td>
<td>TRAFFIC SIGNAL &amp; STREET LIGHTING</td>
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<tr>
<td>TYPICAL INTERSECTION ITS UNDERGROUND LAYOUT</td>
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<tr>
<td>DATE 05-20-10</td>
<td>DWG. NO. 404.1307</td>
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SPECIFICATIONS:

THE ARROW LENS SHALL BE GLASS AND CONFORM TO THE SPECIFICATIONS AS SET FORTH IN TECHNICAL REPORT NO. 1, REVISED 1966, BY THE INSTITUTE OF TRAFFIC ENGINEERS AND APPROVED AS A STANDARD BY THE UNITED STATES OF AMERICA STANDARD INSTITUTE. ANY FUTURE REVISIONS ACCEPTABLE AND ADOPTED BY THE U.S.A.S.I. SHALL AUTOMATICALLY BE PART OF THIS DRAWING SPECIFICATION.
SERVICE PEDESTAL ENCLOSURE, 12 GA. SHEET METAL BODY AND 
EQUIPMENT MOUNTING PANEL, 14 GA. FRONT COVER(S) AND 
16 GA. MIN. FOR ALL OTHER PANELS. ALL SHEET METAL SHALL 
BE FINISHED WITH ZINC CHROMATE PRIMER AND GREEN BAKED 
ENAMEL OR POWDER COAT FINISH. METERING SECTION PER 
P.U.E.S.E.R. STANDARDS.

UTILITY METER SECTION, 100, 125 OR 200 AMP AS NEEDED, 
120/240 VOLT. 1 PHASE, 3 WIRE. THE SECTION SHALL HAVE A 
HINGED COVER WITH PADLOCK TAB.

CIRCUIT BREAKER DISTRIBUTION SECTION, 100, 125 OR 200 AMP AS 
NEEDED, 120/240 VOLT. 1 PHASE, 3 WIRE. THE SECTION SHALL 
BE COMPLETE WITH SEPARATE DEAD FRONT, COPPER BUSSING, 
SPACE FOR A MINIMUM OF TEN FULL SIZE (**) GE TYPE PLUG-IN 
CIRCUIT BREAKERS (EXCLUDING MAIN BREAKER), COPPER 
NEUTRAL/GROUNDING BUS AND MAIN BREAKER AS SPECIFIED BY 
THE ENGINEER. THE SECTION SHALL BE FACTORY WIRED TO THE 
METER SECTION WITH THE APPROPRIATE SIZE COPPER CONDUCTORS.

EQUIPMENT MOUNTING PANEL, 10" H X 12" W MIN., OPEN OR 
ENCLOSED, FOR LIGHTING CONTACTORS AS NEEDED.

DISTRIBUTION AND EQUIPMENT SECTION COVER WITH PADLOCK TAB.

BASE AND ENCLOSURE 
WIDTH (16" TYP.)

BASE DEPTH 
(16" TYP.)

ENCLOSURE DEPTH 
(17" TYP.)

TYPICAL MOUNTING 
BASE DETAIL

(DIMENSIONS MAY VARY DEPENDING 
ON MANUFACTURER)

SEPARATE PEDESTAL ENCLOSURE 
MOUNTING BASE.

UTILITY METER SECTION

CIRCUIT BREAKER 
DISTRIBUTION SECTION

EQUIPMENT MOUNTING PANEL

UTILITY SERVICE ENTRANCE 
CONDUCTOR PULL SPACE 
PER SERVING UTILITY 
REQUIREMENTS.

PULL SPACE ACCESS DOOR 
WITH HANDLE, PER 
SERVING UTILITY

SPECIFICATION REFERENCE

| 506 | STEEL STRUCTURES |
| 623 | TRAFFIC SIGNALS & STREETLIGHTING |

UNIFORM STANDARD DRAWINGS 
CLARK COUNTY AREA

SINGLE METER 
SERVICE PEDESTAL

DATE 12-12-96  DWG. NO. 404.1412  SHEET 1 OF 1
NOTES:

1. ALL WIRES TO BE COPPER; SEE PLANS FOR QUANTITY AND GAGES.

2. WITH ENGINEER'S APPROVAL, AN 8 FT. BY 5/8 IN. COPPER-CLAD GROUNDING ROD MAY BE USED.

3. ALL CONDUIT FITTINGS TO BE WATER-TIGHT.
NOTE:

THERMOSTAT, FAN WIRING, AND TERMINAL BLOCK CONNECTIONS NOT SHOWN.

AC+ LIGHTS

POLICE PANEL

125 V. AC 60 HZ. SERVICE

AC+ FOR CONTROLLER, AUX. EQUIPMENT TIMING DEVICES AND DETECTOR AMPLIFIERS.

NOTES:

1. MAIN SWITCH.
2. 30 AMP CIRCUIT BREAKERS.
3. SIGNAL FLASH SWITCH INSIDE CABINET.
4. AUXILIARY DOOR SIGNAL FLASH SWITCH.
5. NEMA STD. PLUG RECEPTACLE WITH GROUNDING CONTACT.
6. RADIO FREQUENCY INTERFERENCE SUPPRESSOR.
7. SOLID STATE SIGNAL FLASHER (CABINET MFR. TO DETERMINE POLES AND CAPACITY, UNLESS OTHERWISE SPECIFIED)
8. SIGNAL FLASHING CONTROL RELAYS.
OPEN TRENCH

LIP OF GUTTER

PULL BOX (SIZE SPECIFIED ON PLANS)

END OF CONDUIT SHALL BE FITTED WITH BUSHINGS

36" MIN. RADIUS - USE ONLY 20 MIL OR THICKER PVC COATED RIGID IRON CONDUIT FOR BEND AREA. SEE SPECIFICATIONS.

EXCAVATE UNDER EXISTING CURB & GUTTER DO NOT REMOVE C & G.

CONNECTOR

CONTINUE CONDUIT RUN WITH A MINIMUM OF 5 FT. OF PVC COATED R.I.C. SEE CLARK COUNTY AREA SPECS.

6"

24"

FILL WITH SAND AND COMPACT AS REQUIRED BY FIELD ENGINEER

NOTE! DO NOT MAKE COMPOUND BENDS IN CONDUIT

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

INSTALLATION OF CONDUIT INTO PULL BOX FROM LIP OF GUTTER TRENCH

DATE

DWG. NO. 404.1418

SHEET 1 OF 1
THE CONTRACTOR SHALL USE PVC COATED RIGID IRON CONDUIT CONFORMING TO SPECIFICATIONS.

RIGID IRON CONDUIT TO PVC CONDUIT CONNECTOR

CONNECTORS

PVC FOR CONTINUATION

B.C. RADIUS VARES

TYPICAL CONDUIT LOCATIONS

TRENCH

CURB & GUTTER

24°

TRENCH

6° MAX.

LIP OF GUTTER FOR A/C PAVEMENT

BACK OF CURB FOR SIDEWALK

SIDEWALK OR A/C PAVEMENT

BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM)

SAND BACKFILL

CONDUIT SAND BEDDING

NEW CONSTRUCTION

NOTES (RETROFIT):

1. DEPTH TO MATCH EXISTING A/C PAVEMENT, BUT NOT LESS THAN 4", PLACED IN MULTIPLE LIFTS OF EQUAL THICKNESS.
2. PATCH WIDTH SHALL BE SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT USING AGENCY APPROVED SPREADER
   BOX OR PAVING MACHINE, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11.
3. IF SAWCUT IS WITHIN 3 FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
4. IF 24" COVER IS NOT POSSIBLE, THEN RED CONCRETE ENCASEMENT MIN. 4" ABOVE CONDUIT REQUIRED.
5. CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
6. PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.

CONDUIT RETROFIT (EXIST. PAVEMENT)

A/C PATCH SEE NOTES 1 & 2

SEAL COAT

EXISTING CURB AND GUTTER

RE-COMPACT EXISTING BASE MATERIAL

BACKFILL WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM)

SAND BACKFILL

CONDUIT SAND BEDDING

SAWCUT EXISTING PAVEMENT AND APPLY TACK COAT TO ALL VERTICAL SURFACES

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

INSTALLATION OF CONDUIT

DATE 5-17-01    DWG. NO. 404.1419    SHEET 1 OF 1
NOTE:

1. IF PULLING CCTV CABLE IN EXISTING SIGNAL CONDUIT, AGENCY APPROVAL REQUIRED FOR METHOD OF INSTALLATION.

CONNECTOR (MAIN) CONNECTOR (AMP)

VIDEO OUT VIDEO SHIELD

L A COAX 1 2 VIDEO VIDEO GND

115 VAC HI

U K BLK #22 12

115 VAC LO

G B RED #22 12

AC GND

GRN #22 15

B YEL #22 13

115 VAC LO

C T WHT #22 13

RX+ RX- RX+

M B BLK #28 8

RX- RX- RX-

N R RED #28 7

TX+ TX- TX+

P Q GRN #28 5

TX- TX- TX-

R S BLU #28 4

DATA GND

D T ORG #28 3

E F B LUM #28 3

F H WHT/BLK #28

CCTV CAMERA CA295H CABLE WIRING DIAGRAM

CONNECTS TO CAMERA ACCESSORY (FEMALE) (SEE DWG. NO. 404.1500, SHEET 1 OF 4)

CABLE (COHU MODEL CA295H OR APPROVED EQUAL) SEE CABLE WIRING DIAGRAM

CONNECT TO BACK OF LOCAL CCTV CAMERA CONTROL UNIT COHU 9300 SERIES I-CONTROL (OR APPROVED EQUAL IN TRAFFIC CONTROLLER CABINET) (MALE)

LOCAL CCTV CAMERA CONTROL UNIT COHU 9300 SERIES I-CONTROL (OR APPROVED EQUAL) (IN TRAFFIC CONTROLLER CABINET)

SPECIFICATION REFERENCE

<table>
<thead>
<tr>
<th>685</th>
<th>VIDEO ENCODER</th>
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<tr>
<td>686</td>
<td>VIDEO DECODER</td>
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<tr>
<td>687</td>
<td>CCTV FIELD EQUIPMENT</td>
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UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

CLOSED CIRCUIT TELEVISION CAMERA CONTROL UNIT AND CABLE WIRING DIAGRAM

DATE 04-08-10 DWG. NO. 404.1500 SHEET 2 OF 4
NOTE:
CAMERA STAND TO BE USED ONLY TO AVOID CONFLICT WITH OVERHEAD POWER LINES. AGENCY APPROVAL REQUIRED.

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UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CAMERA ADAPTOR STAND

DATE 04-08-10  DWG. NO. 404.1500  SHEET 4 OF 4
NOTE:
AN ADDITIONAL 120V OUTLET TO BE INSTALLED ON SIDE RAIL, NEAR TOP, FOR ITS EQUIPMENT ON EITHER SIDE OF CABINET. LOCATION TO BE APPROVED BY AGENCY ENGINEER BEFORE INSTALLATION. MAXIMUM OF FOUR OUTLETS PER CABINET.

**SPECIFICATION REFERENCE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Uniform Standard Drawings</th>
<th>Clark County Area</th>
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<tbody>
<tr>
<td>681 FIBER OPTIC SPLICE AND DISTRIBUTION EQUIPMENT</td>
<td><strong>COMMUNICATION DISTRIBUTION CABLE ASSEMBLY (CDCA) IN CABINET</strong></td>
<td></td>
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**DATE 04-06-10** | **DWG. NO. 404.1801** | **SHEET 1 OF 1**