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<th>DRAWING NUMBER AND TITLE</th>
<th>SHEET NUMBER(S)</th>
<th>NATURE OF CHANGE</th>
<th>APPROVAL DATE</th>
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<tr>
<td>404.400 School Flashing Sign on Pole with Luminaire</td>
<td>1</td>
<td>Revised to provide a second handhole on traffic signal pole, opposite the mast arm.</td>
<td>4/9/98</td>
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<tr>
<td>404.406 Type XX-30'-0&quot; Signal &amp; Luminaire Pole (45' or Less Mast Arm)</td>
<td>1</td>
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<tr>
<td>404.406 Type XX-30'-0&quot; Signal &amp; Luminaire Pole Details</td>
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<td>404.406 Type XX-A-30'-0&quot; Signal &amp; Luminaire Pole (45' or Less Mast Arm)</td>
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<td>404.406 Type XX-A-30'-0&quot; Signal &amp; Luminaire Pole Details</td>
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<td>404.407 Type XX-20'-0&quot; Signal Pole (45' or Less Mast Arms)</td>
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<td>404.407 Type XX-20'-0&quot; (50' Thru 60' Mast Arms) Signal Pole</td>
<td>2</td>
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<tr>
<td>404.410 30' Luminaire with School Flashing Sign</td>
<td>1</td>
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<tr>
<td>404.412 School Sign Pole Type XX-30'</td>
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<td><strong>DRAWING NUMBER AND TITLE</strong></td>
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<td><strong>APPROVAL DATE</strong></td>
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<tr>
<td>404.416 Type XX Pole with Illuminated Street Name Sign</td>
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<td>4/9/98</td>
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<tr>
<td>404.418 Sign Mounting Illustration</td>
<td>1</td>
<td>&quot;</td>
<td>&quot;</td>
</tr>
<tr>
<td>404.420 Block Number Sign</td>
<td>1</td>
<td>&quot;</td>
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<tr>
<td>404.1306 Typical Traffic Signal Conduit Layout...</td>
<td>1</td>
<td>Added Note 6 to allow additional 2&quot; conduits and larger pull boxes.</td>
<td>6/11/98</td>
</tr>
<tr>
<td>404.1029 Signal Assemblies - B-14T</td>
<td>1</td>
<td>Revised mounting bracket.</td>
<td>10/8/98</td>
</tr>
<tr>
<td>404.417 Street Name Sign Internally Illuminated</td>
<td>1</td>
<td>Note 2 revised to comply with Uniform Standard Specifications.</td>
<td>1/14/99</td>
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<tr>
<td>404.1419 Installation of Conduit</td>
<td>1</td>
<td>Revised to include conduit trench and pavement patch details.</td>
<td>5/13/99</td>
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Released Nov. 1999
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</tr>
<tr>
<td>404.002</td>
<td>Quadrant Detail</td>
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</tr>
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<td>404.120</td>
<td>No. 5 Pull Box</td>
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<tr>
<td>404.121</td>
<td>Reinforced Plastic Mortar Service Box Assembly #5</td>
</tr>
<tr>
<td>404.130</td>
<td>No. 7 Pull Box</td>
</tr>
<tr>
<td>404.131</td>
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<td>404.139</td>
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</tr>
<tr>
<td>404.202</td>
<td>Type &quot;B&quot; Foundation</td>
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<tr>
<td>404.203</td>
<td>Type &quot;C&quot; Foundation</td>
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<td>404.204</td>
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<tr>
<td>404.205</td>
<td>Type &quot;E&quot; Foundation</td>
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<tr>
<td>404.206</td>
<td>Type &quot;F&quot; Foundation</td>
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<tr>
<td>404.207</td>
<td>Type &quot;G&quot; Foundation</td>
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<tr>
<td>404.208</td>
<td>Type &quot;H&quot; Foundation</td>
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<td>Type &quot;L&quot; Foundation</td>
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<td>404.501</td>
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<td>404.502</td>
<td>One Bolt Simplex Arm Attachment Clamp Assembly</td>
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<td>404.700</td>
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<td><strong>DELETED</strong> - See Uniform Standard Specifications Subsection 623T.02.04</td>
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<td>1 Induction Loop for 1 Travel Lane</td>
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<td>404.821(SH1)</td>
<td>1 Induction Loop for 2 Travel Lanes</td>
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<td>404.821(SH2)</td>
<td>2 Induction Loops for 2 Travel Lanes</td>
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<tr>
<td>404.822(SH1)</td>
<td>1 Induction Loop for 3 Travel Lanes</td>
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<td>404.822(SH2)</td>
<td>3 Induction Loops for 3 Travel Lanes</td>
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<td>404.823(SH1)</td>
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<td>404.823(SH2)</td>
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404.1016  Types: A-10T, A-11T
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SIGNAL ASSEMBLIES

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404.1025 Types: B-5T, B-6T
404.1026 Types: B-7T, B-8T, B-9T
404.1027 Types: B-10, B-11T
404.1028 Types: B-12T, B-13T
404.1029 Types: B-14T
404.1030 Protective/Permissive M-5 Signal Heads
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            (3 sheets)
404.1032 Pedestrian Signal Assemblies W-0T, W-1, W-2T, W-3T, W-1T
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404.1414 Auxiliary Cabinet Equipment Wiring
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404.1419 Installation of Conduit
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Subsection 623G.03.07

Released November 1999
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.

3. For other details see drawing No. 404.406 SHTS. 2 & 6.

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.

For "F" type foundation see drawing No. 404.206

**NOTES:**

**LENGTH "L" SEE NOTES ON SIGNAL PLANS OR CONTRACT**

4-1/2" X 7" (MIN. INSIDE DM.)
HANDHOLE AND COVER
(LOCATED 180 DEGREES OPPOSITE
MAST ARM)

90° OR 95°
AS PER SPECIFICATION

FOR 3 GA. 30" ROUND TAPERED STEEL SHAFT

FOR "F" TYPE FOUNDATION SEE DRAWING NO. 404.206

4-1/2" X 7" (MIN. INSIDE DM.)
HANDHOLE AND COVER
(SHALL FACE AWAY FROM
ONCOMING TRAFFIC)

BASE COVER
**Luminaire Arm Data**

<table>
<thead>
<tr>
<th>Arm Span (ft)</th>
<th>Fixed End Dia. (in)</th>
<th>Free End Dia. (in)</th>
<th>Gauge</th>
<th>Luminaire Mounting Height</th>
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<tbody>
<tr>
<td>6</td>
<td>3.42</td>
<td>2.38</td>
<td>11</td>
<td>32'-0&quot;</td>
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<tr>
<td>8</td>
<td>3.75</td>
<td>2.38</td>
<td>11</td>
<td>33'-3&quot;</td>
</tr>
<tr>
<td>10</td>
<td>4.16</td>
<td>2.38</td>
<td>11</td>
<td>35'-0&quot;</td>
</tr>
<tr>
<td>12</td>
<td>4.52</td>
<td>2.38</td>
<td>11</td>
<td>36'-6&quot;</td>
</tr>
<tr>
<td>15</td>
<td>4.95</td>
<td>2.38</td>
<td>11</td>
<td>37'-0&quot;</td>
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</tbody>
</table>

**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".
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.

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

**Uniform Standard Drawings**

**Clark County Area**

**Type XX-30'-0"**

**Signal & Luminaire Pole**

(45' or less mast arms)

**Date:** 4-9-98  **DWG. No.:** 404.406  **Sheet:** 1 of 6
LUMINAIRE ARM CONNECTION DETAIL

MAST ARM CONNECTION DETAIL

POLE MOUNTING DETAIL

1/4" THK. GUSSETS

3/4"

2" DIA. WIRE ENTRY WITH EDGES DEBURRED

4-1/2"x7" MIN. (INSIDE DIM.) HANDHOLE AND COVER (SHALL FACE AWAY FROM ONCOMING TRAFFIC)

1/2" N.C. SQUARE NUT FOR GROUND

18 1/2" DIA. BOLT CIRCLE

7" SQ.

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

BOLTS 3-EA. 3/4"x1-3/4" A325-X

6"

7-3/4"

CAP END OF MAST ARM

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

7/16" DIA. THRU HOLE

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

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

13"

18"

1-3/4"

1-3/4"x80"x6"

BOLT

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

<table>
<thead>
<tr>
<th>ARM SPAN &quot;L&quot; (FT)</th>
<th>FIXED END DIA. (IN)</th>
<th>FREE END DIA. (IN)</th>
<th>GAUGE</th>
<th>LUMINAIRE MOUNTING HEIGHT</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>3.42</td>
<td>2.38</td>
<td>11</td>
<td>32'-0&quot;</td>
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<td>8</td>
<td>3.75</td>
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<td>11</td>
<td>36'-6&quot;</td>
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<tr>
<td>15</td>
<td>4.85</td>
<td>2.38</td>
<td>11</td>
<td>37'-0&quot;</td>
</tr>
</tbody>
</table>

**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".
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.

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 4-9-98  DWG. NO. 404.406  SHEET 3 OF 6
DETAIL A-A

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. PHOTOREC EYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.

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.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 80 MPH WINDS.
(SEE DRAWING NO. 404.408 SHEET 5 FOR LOADING INFORMATION)

FOR OTHER DETAILS SEE DRAWING NO. 404.408 SHTS. 4 & 6.
FOR 'L' TYPE FOUNDATION SEE DRAWING NO. 404.209.
NOTE:

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

FOR OTHER DETAILS SEE DRAWING NO. 404.406 SH. 2 & 6

FOR "F" TYPE FOUNDATION SEE DRAWING NO. 404.206

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

30' LUMINAIRE WITH SCHOOL FLASHING SIGN

DATE 4-9-98 | 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. 404.411.

FOR "H" TYPE FOUNDATION DRAWING NO. 404.208
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. SIGN SHALL BE DOUBLE FACED.
2. SIGN PANEL SHALL BE WHITE WIDE-ANGLE PRISMATIC TRANSLUCENT REFLECTIVE SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAYERED WITH GREEN ELECTRONIC CUTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A POLYCARBONATE CLEAR SUBSTRATE, 0.060 GAGE.
3. 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.
4. APPROVAL OF SHOP DRAWING OF SIGN FACE LAYOUT BY TRAFFIC ENGINEER IS REQUIRED PRIOR TO FABRICATION OF SIGN PANELS.
5. SHEETING SHALL BE APPLIED IN A VERTICAL ORIENTATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

STREET NAME SIGN
INTERNALLY ILLUMINATED

DATE 1-14-99 DWG. NO. 404.417 SHEET 1 OF 1
NOTE:
The bracket and strap are of the bandit type or equivalent.
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
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DATE 4-9-98  DWG. NO. 404.420  SHEET 1 OF 1
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).
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 TRAFFIC SIGNAL POLES SHALL BE GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
2. IF STREETLIGHTING CIRCUIT DOES NOT EXIST, DELETE NO. 3 1/2 PULL BOX AT INTERSECTION AND 1 1/4" PVC.
3. FOR TYPE XX AND XX-A POLES, SEE STANDARD DRAWING NO. 406; FOR TYPE "H" AND "L" FOUNDATIONS, SEE STANDARD DRAWING NO. 404.208 AND 404.209.
4. EXTEND THE 1-2" AND THE 2-3" PVC 6 FEET PAST EDGE OF PAVEMENT TO SINGLE NO. 3 1/2 PULL BOX OR CONNECT TO THE EXISTING TRAFFIC SIGNAL CONDUIT.
5. INTERCONNECT IS DEDICATED 2" CONDUIT WITH A NO. 5 PULL BOX EVERY 500 FEET (MAX).
6. ADDITIONAL CONDUIT AND LARGER PULL BOX MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPICAL TRAFFIC SIGNAL CONDUIT LAYOUT
WITH STREETLIGHTING

DATE 6-11-98 DWG. NO. 404.1306 SHEET 1 OF 1
THE CONTRACTOR SHALL USE PVC COATED RIGID IRON CONDUIT CONFORMING TO SPECIFICATIONS.

B.C. RADIUS VARYS

6' MAX.
TRENCH
CURB & GUTTER 24"
TRENCH
6' MAX.

RIGID IRON CONDUIT TO PVC CONDUIT CONNECTOR

THE TYPICAL CONDUIT LOCATIONS

NEW CONSTRUCTION

NOTES (RETROFIT):
1. DEPTH TO MATCH EXISTING AC PAVEMENT, BUT NOT LESS THAN 4", PLACED IN MULTIPLE LIFTS OF EQUAL THICKNESS.
2. PATCH WIDTH SHALL BE SUFFICIENT TO ACCOMMODATE MECHANICAL PLACEMENT, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 4010311.
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. FLOWABLE FILM MAY BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
6. PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

INSTALLATION OF CONDUIT

DATE 5-13-99 DWG. NO. 404.1419 SHEET 1 OF 1