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.
PROPOSED

EXISTING

STREET NAME SIGN
INTERNALLY ILLUMINATED

CURB FLASHER

VEHICLE MOVEMENT (STOPPED)

VEHICLE MOVEMENT (MOVING)

CONDUIT RUN NUMBER

PEDESTRIAN MOVEMENT

TRAFFIC SIGNAL ON MAST ARM

TRAFFIC SIGNAL AND LUMINAIRE
ON MAST ARMS

PEDESTRIAN PUSH BUTTON
INDICATING DIRECTION OF CONTROL

TRAFFIC SIGNAL WITH
ALL COLORS LOUVERED

SCHOOL FLASHER

5 SECTION SIGNAL HEAD WITH DIRECTIONAL
ARROW AND BACKPLATE

PRIORITY VEHICLE PREEMPTION OPTICAL DETECTOR
(OPTICOM OR APPROVED EQUAL)
QUADRANT
ARM OR SIGNAL LOCATION
(TOP VIEW)

NOTE: QUADRANT IS IN RELATION WITH SHEET - NOT WITH NORTH ARROW
CAST IRON SIDEWALK COVER
MARKED "TRAFFIC SIGNAL"

PRECAST REINFORCED
CONCRETE BODY

NOTES:

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

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
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

DATE  DWG. NO. 404.130  SHEET 1 OF 1
PLASTIC MORTAR REINFORCED SIDEWALK COVER MARKED "TRAFFIC SIGNAL"

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

REINFORCED PLASTIC MORTAR SERVICE BOX ASSEMBLY #7

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

Effective 07/01/08 - 12/30/08
REINFORCED POLYMER CONCRETE COVER MARKED "FIBER OPTIC"

POLYMER COMPOSITE BODY

BOTTOM OF BOX SHALL BE OPEN

KNOCK-OUTS TO BE FIELD CUT TO FIT CONDUIT(S)

NOTES:
1. THIS PULL BOX SHALL NOT BE USED IN TRAVEL OR PARKING LANES.
2. TOP OF BOX SHALL BE LEVEL WITH EXISTING SIDEWALK OR 1" ABOVE EXISTING GRADE IN UNDEVELOPED AREAS AND SIDES SHALL BE VERTICAL.
3. FOR USE IN INTERCONNECT AND ITS COMMUNICATION INSTALLATIONS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

"P30" PULL BOX
(FOR USE IN INTERCONNECT AND ITS COMMUNICATION INSTALLATIONS)

DATE 3-13-08   DWG. NO. 404.132   SHEET 1 OF 1
ADJUSTABLE TORSION SPRING ASSISTED STEEL COVER MARKED "FIBER OPTIC"

CABLE RACK

GROUNDING RIBBON

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
NOTE:
1. THIS PULL BOX SHALL BE USED IN VEHICLE TRAVEL AREAS.

AVAILABLE IN #3, #5, & #7 SIZES (3 GAUGE STEEL)
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.
PULL BOX COVER - TOP VIEW

TWO (2) BRONZE FLAT WASHERS AND LOCK WASHER AND BRASS NUT OR EXOTHERMIC WELD LOOP GROUND WIRE BETWEEN FLAT WASHERS TWO (2) TIMES AND SECURE WITH NUT

PULL BOX COVER - SIDE VIEW

COVER MOUNTING BOLT, TYP.

GROUNDED CAST IRON OR NON-CONDUCTIVE COVER (PER ENTITY)

PROVIDE 18" MINIMUM FROM EDGE OF BOX

FINISHED GRADE

SIDEWALK

#8 GREEN THWN

PULL BOX

#4 THW

BRONZE SPLIT-BOLT CONNECTOR WATERPROOF WITH RUBBER AND ELECTRICAL TAPE (COMPRESSION CONNECTOR SHALL BE USED IN CLARK COUNTY)

PVC CONDUIT

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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE

| 623 | TRAFFIC SIGNALS & STREETLIGHTING |

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PULL BOX COVER
BONDING DETAIL

DATE 12-12-96  DWG. NO. 404.140  SHEET 2 OF 2
CROSS SECTION

NATIVE MATERIAL OR SAND AS REQUIRED BY THE ENGINEER COMPACTED TO 90%

PULL BOX COVER

6" MIN.

PULL BOX

12"

CONDUIT

TOP VIEW

2"

3"

CONDUIT
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 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".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PULL BOX CONCRETE COLLAR IN UNDEVELOPED AREAS

DATE 3-13-08    DWG. NO. 404.143    SHEET 1 OF 1
NOTE:
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
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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.

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**ANCHOR BOLTS**

<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>
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<tr>
<td>3</td>
<td>1-1/4&quot; X 44&quot; X 4&quot;</td>
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NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3' ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

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6" X 8" WIRE MESH 10 GA.

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

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SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "E" FOUNDATION

DATE 9-14-00  DWG. NO. 404,205  SHEET 1 OF 1
1. Anchor bolts shall be hot-dip galvanized steel with nut and washer.

2. Continuous bare copper grounding wire shall be looped around anchor bolts one time connected to each anchor bolt before continuing down to the grounding plate.

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Bronze grounding connector UL listed for underground use (one per bolt) see note 2

2" Conduit

44" Min.

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

Base of pole

1" non-shrink grout between pole base and sidewalk

4" Min.-6" Max. concrete cap

6" XG" wire mesh 10 ga.

6" MESH HEIGHT

36" Dia. concrete base

15# felt (2 layers)

Std. grounding plate per NEC 250-83
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

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NO. 4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE 3'1" 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.-8" 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
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.
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.

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE

10 GA. 6"X6" WIRE MESH OR #4 BAR 6"X6" SPACING

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

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

CONDUCT 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

#4 BAR 2"X2" SPACING, TOP 14" MIN.

DATE 9-14-00  DWG. NO. 404.209  SHEET 1 OF 1
NOTES:
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-COHESIVE 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 3/8" 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

FOR TYPE XX-B SIGNAL AND LUMINAIRE POLES, SEE STANDARD DRAWING NOS. 404.406, 404.407 AND 404.409.

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<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS</th>
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<tr>
<td>623G.03.06 FOUNDATION</td>
<td>CLARK COUNTY AREA</td>
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TYPE "M" FOUNDATION

DATE 10-10-02  DWG. NO. 404.210  SHEET 1 OF 1
Effective 07/01/08 - 12/30/08

6' OF #4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION. CONNECT GROUNDING WIRE TO GROUNDING POINT.

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

5" X 8" HOLLOW CORE. DEPTH VARIES. USE AROUND EXISTING PIPE PEDESTAL WHEN APPLICABLE.

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.

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE "I" FOUNDATION

SPECIFICATION REFERENCE

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

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

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

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

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

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

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

2" PVC COND. TO BE ADDED IN EVERY FDN. FOR FUTURE USE. POINT TOWARDS INTERSECTION.

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE (ONE PER BOLT) SEE NOTE 6

60" MIN. (EASEMENT MAY BE NECESSARY)

6' OF #4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE ABOVE FDN. CONNECT GROUNDING WIRE TO GROUNDING POINT.

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83
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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

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<tr>
<td>501 PORTLAND CEMENT CONCRETE</td>
<td>CLARK COUNTY AREA</td>
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<tr>
<td>623 TRAFFIC SIGNALS &amp; STREETLIGHTING</td>
<td>SERVICE PEDESTAL FOUNDATION</td>
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<tbody>
<tr>
<td>9-14-00</td>
<td>404.214</td>
<td>1 OF 1</td>
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</table>
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.

POLICE PANEL

PROVIDE SHELF AS NEEDED

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.

"M" CABINET

PLAN AT BASE
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE VI
CABINET

DATE 12-12-96  DWG. NO. 404.305  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. FOR FOUNDATION DETAILS AND ANCHOR BOLT LOCATION SEE DRAWING NO. 404.213.

4. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED ANCHOR BOLTS WITH EACH CABINET.
VENT FAN SPECIFICATION:
SEE STANDARD DRAWING
NO. 404.304

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.

"RR" CABINET

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

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.
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 PI GTAIL 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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
LUMINAIRE PIPE TENON AS REQUIRED

15' ARM LENGTH

11 GA. ROUND TAPERED ARM

REMIDABLE POLE TOP

PROVIDE WIRE GUIDE INTO SHAFT

LENGTH "L" SEE NOTES ON SIGNAL PLANS OR CONTRACT

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

SEE NOTE 4

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

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

BASE COVER

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
PEDESTRIAN PUSHBUTTON FOR 2 1/2" POSTTOP MOUNTING

PLAN OF BASE

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

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

PEDESTRIAN PUSH BUTTON POST FOR 2 1/2 POSTTOP MOUNTING

DATE 12-12-96  DWG. NO. 404.401  SHEET 2 OF 2
4-1/2" O.D. COLLAR

1/2" N.C. SQ. NUT FOR GROUND (OPP. HANDHOLE)

8-1/2" B.C.

9" SQ.

PLAN OF BASE

1/2" PLATE

(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.

BASE COVER

HANDHOLE AND COVER

<table>
<thead>
<tr>
<th>POLE TYPE</th>
<th>&quot;A&quot; NOM.</th>
<th>SHAFT SIZE</th>
<th>NOTES</th>
</tr>
</thead>
<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>
</tr>
<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>
</tr>
</tbody>
</table>

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

DETAIL "A"

DETAIL "B"

PLAN OF BASE

4" X 6-1/2" (INSIDE DIM.)
HANDHOLE AND COVER
(SHAL 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. HANDHOLE COVERS SHALL BE MOUNTED WITH
TAMPER-RESISTANT SCREWS.

FOR TYPE "G" FOUNDATION SEE DRAWING NO. 404.207

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGN POST WITH
SCHOOL SIGN MOUNTED

DATE 12-12-96 DWG. NO. 404.403 SHEET 1 OF 2
NOTES:

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. HANDBOKE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 404.203.
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>
</tr>
</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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<tr>
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<td>10</td>
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<td>11</td>
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</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. 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. 404.208

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
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 TAPER-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.

LUMINAIRE ARM CONNECTION DETAIL

MAST ARM CONNECTION DETAIL

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX - 30'-0"
SIGNAL & LUMINAIRE POLE DETAILS

DATE 9-14-06  DWG. NO. 404.406  SHEET 2 OF 6
LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

11 GA. ROUND TAPERED ARM

REMOVABLE POLE TOP

PROVIDE WIRE GUIDE INTO SHAFT
SEE SHEET 4 THIS DRAWING NO.

18'-6" 30' ROUND TAPERED STEEL SHAFT

15' 15'-1/2" 15'-3/4"

LUMINAIRE ARM DATA

<table>
<thead>
<tr>
<th>ARM SPAN &quot;L&quot; (FT)</th>
<th>FIXED END DIA. (IN)</th>
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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.

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

SPECIFICATION REFERENCE

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. 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. 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.

LUMINAIRE ARM CONNECTION DETAIL

POLE PLATE 0.75" DIA. HOLE

ARM PLATE 1.75"

13" 16.50" 8.25"

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

MAST ARM CONNECTION DETAIL

16-1/2"

18"

21-1/2"

2"

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

TYPE XX - A - 30'-0"
(50' THRU 60' MAST ARMS)
SIGNAL & LUMINAIRE POLE DETAILS

DATE 9-14-06 DWG. NO. 404.406 SHEET 4 OF 6
SIGNAL STANDARD

HANDHOLE AND COVER (SHALL FACE AWAY FROM ONCOMING TRAFFIC)

HEX HEAD NON-CORROSIVE 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)

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
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 MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

11 GA. ROUND TAPERED ARM

REMOVABLE POLE TOP

LUMINAIRE ARM DATA

<table>
<thead>
<tr>
<th>ARM SPAN &quot;L&quot; (FT)</th>
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</table>

LENGTH "L" SEE SIGNAL PLANS OR CONTRACT

LENGTH "T1" SEE SIGNAL PLANS OR CONTRACT

LENGTH "T2" SEE SIGNAL PLANS OR CONTRACT

TENON LOCATIONS SHALL BE REFERRED TO THE LOADING INFORMATION STANDARD DRAWING 404.406B SHT 3 OF 3

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 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 LUMINARIAE 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)

DATE 11/10/05    DWG. NO. 404.406B    SHEET 1 OF 3
ALTERNATE SIGN INSTALLATION

65' THRU 85'
SPANS
ALTERNATE LOADING

3.3 FT. 2
60 LB.

15' MAX.

37' MAX.

ALTERNATE SIGN INSTALLATION

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'-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>
</tr>
<tr>
<td>C</td>
<td>SIGN R3-4 24&quot; X 24&quot;</td>
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<td>10</td>
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<tr>
<td>D</td>
<td>SIGNAL 12'-5 SEC. W/ BACKPLATES</td>
<td>13.68</td>
<td>80</td>
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<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'</td>
<td>13.44</td>
<td>100</td>
</tr>
<tr>
<td>G</td>
<td>SIGNAL DUAL-12'-3 SEC. W/ BACKPLATES</td>
<td>17.34</td>
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</tr>
<tr>
<td>H</td>
<td>SIGNAL DUAL-PEDESTRIAN</td>
<td>8.00</td>
<td>60</td>
</tr>
</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 ISO TACH.
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 CALL OUT PHASING IN POLE SCHEDULE ON TRAFFIC SIGNAL PLANS.
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. PHOTOCUBE MAY NEED TO BE ATTACHED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.

5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 18 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. 404.408 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.
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

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

BASE COVER

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

SPECIFICATION REFERENCE

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SCHOOL SIGN POLE
TYPE XX-A

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. 769-8, 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 907 FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.
NOTES:

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

2. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 907 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.
1. SIGN SHALL BE DOUBLE FACED.

2. SIGN PANEL SHALL BE WHITE WIDE-ANGLE PRISMATIC TRANSLUCENT CLASS 6 REFLECTIVE SHEETING, EITHER REVERSE-SCREENED WITH MANUFACTURER'S RECOMMENDED GREEN INK AND CLEAR COATING OR OVERLAYED WITH GREEN ELECTRONIC CUTABLE TRANSPARENT OVERLAY FILM, APPLIED TO A POLYCARBONATE CLEAR SUBSTRATE, 0.1875" 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 SIGNFACE 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.

6. ADVANCE BALLAST RSM175STP FOR EACH FLUORESCENT TUBE IS REQUIRED AND NO SUBSTITUTES.
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 CW/WW 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 OVERLAYERED 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.
FLAG MOUNT ATTACHMENT DETAIL
NOT TO SCALE

① ALUMINUM ANGLE WELDED TO INSIDE OF EXTRUDED CABINET
② NUTS WELDED TO ANGLE
③ 1/2" X 1 1/2" BOLTS
④ BRACKET FABRICATED FROM 3/8" PLATE STEEL
⑤ 5/16" SET SCREWS INTO POLE

TRAFFIC POLE

BRACKET DETAIL
NOT TO SCALE

DIAMETER VARIES

2.25"
2.5"
1" GAP
4.25"
5"
1.75"
2.25" TYP.

7.5"

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED ATTACHMENT DETAIL

DATE 11/10/05 DWG. NO. 404.417A SHT 2 OF 3
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.

* WIRE BALLAST INSIDE CABINET AS REQUIRED.

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ALTERNATIVE POLE MOUNTED STREET NAME SIGN INTERNALLY ILLUMINATED BRACKET DETAIL

DATE 11/10/05    DWG. NO. 404.417A    SHT 3 OF 3
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.
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.

NOTES:
(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.)

12"
STRAIGHT

21" 7/8" R.

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

6' RISE

CLAMP

EXISTING ROUND STEEL POLE W/ SIMPLEX ATTACHMENT

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

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

RETROFIT STREETLIGHT MAST ARM

DATE  DWG. NO.  SHEET
404.503  1 OF 1
SPECIAL NOTE:
POLE SHALL
NOT BE DRILLED
FOR CLAMSHELL
UNTIL AFTER
INSTALLATION
OF POLE.

NOTES:
1. DRILLING OF POLE TO BE ORIENTED ACCORDING TO POLE LAYOUT, SPECIFICATIONS, AND
   AND ENGINEER.
2. DIMENSIONS ARE FROM CURB LEVEL.
3. DIMENSIONS ARE TO WIRE INLET HOLE ONLY. USE MANUFACTURER’S
   TEMPLATE TO LOCATE ALL OTHER HOLES.
4. ALL HOLES ARE TO CONFORM TO MANUFACTURER’S RECOMMENDATIONS.

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POLE DRILLING
DETAILS

DATE | DWG. NO. 404.600 | SHEET 1 OF 1
1/2" - 13 NC HEX. HEAD BOLT & NUT, CADMIUM PLATED OR GALVANIZED

WASHERS CURVED TO FIT STANDARD

DRILL 9/16" HOLES

FLAT WASHER

SIGNAL ASSEMBLY A-10T

SIGNAL ASSEMBLY B-10

TYPE 1-A STANDARD

DRAWING NO. 404.402

3'-8" 4'-6"

10' MIN. TO NOSE OF ISLAND

ISLAND SIGNAL POLE DETAILS FOR 10' POLE
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

SEE PLANS

3/8" X 2" MIN.

A–A

A–A (AFTER INSTALLATION)

DETECTOR SEALANT (FLUSH W/ SURFACE)

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.

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

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
NOTE:

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.

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

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

WIRING DIAGRAM

SECTION A--A

SECTION B--B

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

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1 INDUCTION LOOP FOR 1 TRAVEL LANE
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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

1 INDUCTION LOOP
FOR 2 TRAVEL LANES

DATE  DWG. NO. 404.821  SHEET 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

DIRECTION OF TRAVEL

SEE PLANS

WIRING DIAGRAM

SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX

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

3/8"

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

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

3/8"

B-B

* Professional electrical engineer stamp on file.

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<td>2 INDUCTION LOOPS FOR 2 TRAVEL LANE S</td>
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</table>

DATE | DWG. NO. 404.821 | 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.

SEE PLANS

DIRECTION OF TRAVEL

WIRING DIAGRAM

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

A-A

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
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

Direction of Travel

Wiring Diagram

See plans

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

3/8"

A-A

Sawcut Diagram

See Drawing No. 404.810 for sawcut details.

* Professional electrical engineer stamp on file.
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

A-A

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

SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

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<td>1 INDUCTION LOOP FOR 4 TRAVEL LANES</td>
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DATE | DWG. NO. 404.823 | SHEET 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.

WIRING DIAGRAM

Sawcut diagram

See drawing no. 404.810 for sawcut details.

* Professional electrical engineer stamp on file.

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<th>Specification Reference</th>
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<td>4 induction loops for 4 travel lanes</td>
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Date: DWG. NO. 404.823 | Sheet 2 of 2
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.

WIRING DIAGRAM

These dimensions shall be adjusted to center loop in travel lane.

SAWCUT DIAGRAM

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

A–A

B–B

* Professional electrical engineer stamp on file.
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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
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'.
NOTES:

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

CIRCULAR INDUCTION LOOPS
FOR TRAVEL LANES

DATE | DWG. NO. 404.830 | SHEET 1 OF 1
NOTES:
1. CAST ALUMINUM HOUSING.
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.

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. 404.851 SHEET 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
SHOWS 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

LOUVERED BACKPLATE FOR 5 SECTION SIGNAL HEAD
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<td>MALLEABLE ELBOW-REAMED/SET SCREW</td>
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<td>MALLEABLE ELBOW/SIDE OUTLET/REAMED/SET SCREW</td>
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<td>MALLEABLE TEE, REAMED/SET SCREW</td>
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<td>12.</td>
<td>MALLEABLE TEE/SIDE OUTLET, REAMED/SET SCREW</td>
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<td>13.</td>
<td>MALLEABLE CROSS, REAMED/SET SCREW</td>
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<td>MALLEABLE CROSS/SIDE OUTLET, REAMED/SET SCREW</td>
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<td>SIDE BRACKET MOUNTED ADAPTER WITH TERMINAL COMPT.</td>
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<td>POST TOP MOUNTED ADAPTER WITH TERMINAL COMPT.</td>
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**NOTES:**

1. ALL SIGNALS ARE 12” NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.

<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>SIGNAL ASSEMBLIES A–1, A–2T, A–3</td>
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<td>DATE DWG. NO. 404.1011 SHEET 1 OF 1</td>
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**NOTES:**

1. ALL SIGNALS ARE 12” NOMINAL (GLASS).
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.

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<th>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</th>
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</thead>
<tbody>
<tr>
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<td>SIGNAL ASSEMBLIES A-4T, A-5T</td>
</tr>
</tbody>
</table>

**DATE** | **DWG. NO.** | **SHEET** |
----------|--------------|-----------|
          | 404.1012     | 1 OF 1    |
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.
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).

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
A-12T, A-13T

DATE 2-11-93  DWG. NO. 404.1017  SHEET 1 OF 1
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.
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.
NOTES:
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.

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<tr>
<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</th>
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<tbody>
<tr>
<td></td>
<td>SCHOOL FLASHER MAST ARM SIGNAL ASSEMBLIES M–2A</td>
</tr>
<tr>
<td></td>
<td>DATE 03-10-05 DWG.NO. 404.1023A1 SHEET 1 OF 2</td>
</tr>
</tbody>
</table>
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SCHOOL FLASHER
MAST ARM SIGNAL ASSEMBLIES
M-2B

DATE 03-10-05  DWG.NO. 404.1023A1  SHEET 2 OF 2
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".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-1T, B-2T, B-3T

DATE 2-11-93  DWG. NO. 404.1024  SHEET 1 OF 1
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".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-5T, B-6T

DATE 2-11-93  DWG. NO. 404.1025  SHEET 1 OF 1
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B–7T, B–8T, B–9T

DATEDWG. NO. 404.1026 SHEET 1 OF 1
NOTES:
1. ALL SIGNALS ARE 12” NOMINAL (GLASS).
2. FOR ITEMIZED PARTS SEE DRAWING 404.1005.
3. FOR ARROW LENSee 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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

SIGNAL ASSEMBLIES
B-10, B-11T

DATE 5-12-94  DWG. NO. 404.1027  SHEET 1 OF 1
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".
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA

SIGNAL ASSEMBLIES B-14T

DATE 10-8-98 DWG. NO. 404.1029 SHEET 1 OF 1
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.
NOTES:

1. ALL BACKPLATES SHALL BE LOUVERED.
2. ALL LENSES SHALL BE GLASS.
3. OPTIONAL 3" CUT-OFF LOUVERS ON RED, YELLOW AND GREEN BALL INDICATIONS MAY BE PROVIDED AS DIRECTED BY THE TRAFFIC ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

PROTECTED / PERMISSIVE
M-5 SIGNAL HEADS

DATE 5-12-94   DWG. NO. 404.1031   SHEET 1 OF 3
BACKPLATE TO MATCH ORDER PART NO. E 2074
NOTES:
UNLESS OTHERWISE SPECIFIED
FW 2933 AND SIGNAL ASSEMBLY

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

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<thead>
<tr>
<th>REF #</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>REQ.</th>
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<td>1</td>
<td>FW2933</td>
<td>ASSEMBLY</td>
<td>X</td>
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<tr>
<td>2</td>
<td>E205P1</td>
<td>TOP BRACKET W/COVER</td>
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<td>E2051P1</td>
<td>BOTTOM BRACKET</td>
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<td>4</td>
<td>E1270P1</td>
<td>ADAPTOR RING</td>
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<td>6</td>
<td>E1251P1</td>
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<tr>
<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>
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<td>ATTACHING BOLT</td>
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<td>ATTACHING NUT</td>
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<td>ELEV. PLUMBIZER, OLD STYLE (NO LONGER AVAILABLE)</td>
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<tr>
<td>12</td>
<td>E4955P1</td>
<td>RED BALL LENS</td>
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<td>E4960P2</td>
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<td>GREEN ARROW LENS</td>
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<td>17</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
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.
NOTE: TAMPER-PROOF SCREWS TO BE USED.
STANDARD FULL CIRCLE VISOR

STANDARD ANGLE VISOR

VISORS (FOR 8" HEADS)

PAINT: FLAT BLACK ON INSIDE OUTSIDE PAINT COLOR SHALL MATCH SIGNAL HOUSING.
STANDARD FULL CIRCLE VISOR

STANDARD ANGLE VISOR

SECTION A-A

SECTION B-B

DIRECTIONAL LOUVERS
PAINT: FLAT BLACK

VISORS (FOR 12" HEADS)
PAINT: FLAT BLACK ON INSIDE.
OUTSIDE PAINT COLOR SHALL MATCH SIGNAL HOUSING.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

LOUVERS AND VISORS
FOR 12" SIGNALS

DATE: DWG. NO. 404.1100 SHEET 2 OF 3
<table>
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<td>GEOMETRICALLY PROGRAMMED</td>
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<td>LOUVER</td>
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**DATE** | **DWG. NO.** | **SHEET**
---|---|---
|    | 404.1100 | 3 OF 3
NOTE:
ALL BOLTS, NUTS AND WASHERS SHALL BE BRASS OR STAINLESS STEEL.
1. MATERIAL—BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING
3. PROVIDE WASHERS SHOWN AND 1/2" PLATED BOLTS, LENGTH FOR STEEL POLE MOUNTING.

DO NOT PROVIDE UNLESS SPECIFIED ON THE PLANS.

CURVED WASHER

WASHER CURVED TO FIT STANDARD
FERROUS SPECIAL TEE
PAINT COLOR SHALL MATCH
SIGNAL HOUSING

FERROUS SPECIAL ELBOW
PAINT COLOR SHALL MATCH
SIGNAL HOUSING

72 TEETH – 1/16”
HIGH ALL AROUND

1-1/2” PIPE THREAD

72 TEETH – 1/16”
HIGH ALL AROUND

1-1/2” PIPE THREAD

6-3/8” X 5/8”
SQ. HD. SET
SCREW (CADMIUM
PLATED STEEL)

1-1/2” PIPE THREAD

4-1/2”

4-5/8”
INSIDE

POST TOP MOUNTED BRACKET WITH
SERRATED OFFSET MOUNT.

(USE FOR ALL POST Top MOUNTINGS
NOT REQUIRING SIDE PORTS)

MATERIAL: BRONZE
PAINT COLOR SHALL MATCH
SIGNAL HOUSING

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

MISCELLANEOUS SIGNAL
MOUNTING HARDWARE

DATE

DWG. NO. 404.1202

SHEET 1 OF 1
NOTES:
1. MATERIAL – BRONZE
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING

ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

ELEVATOR PLUMBIZER

DATE  DWG. NO. 404.1203  SHEET 1 OF 1
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.

1-1/2" PIPE THREADS

3/8" R (TYP.)

9/16"

3 - 1/2"

5/8" HOLE

CURVED WASHER

WASHER CURVED TO FIT STANDARD

SECTION A-A

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

POLE PLATE
WITH WIRE GUIDE DETAILS

DATE

DWG. NO. 404.1204

SHEET 1 OF 1
LIST OF MATERIALS

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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>
<td>1</td>
<td>CORK GASKET TO MATCH COVER</td>
</tr>
<tr>
<td>3.</td>
<td>1</td>
<td>3/32&quot; STEEL COVER WITH 2 BOLT HOLES OPPOSITE</td>
</tr>
<tr>
<td>4.</td>
<td>2</td>
<td>STANDARD LOCK WASHER</td>
</tr>
<tr>
<td>5.</td>
<td>5</td>
<td>3/8&quot; - 16 UNC-2A X 1&quot; BRASS HEX. HD CAP SCREW 2 REQ.</td>
</tr>
</tbody>
</table>

NOTES:

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

ELBOW WITH SIDE OUTLET

TEE WITH SIDE OUTLET

CROSS

CROSS WITH SIDE OUTLET

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

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
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
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")

FOUR 7/16" DIA. EQUALLY SPACED HOLES CENTERED ON A 4-3/4" DIA. CIRCLE.

SEE DETAIL "A"

ONE-WAY SIGNAL HEAD MOUNT

11 A

ONE-WAY MOUNT

32 A
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.

---

**Notes:**

- 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.

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**Effective 07/01/08 - 12/30/08**
NOTE:
FLANGE TO BE WELDED TO MAST ARM SLIPFITTER 4" FROM THE END.

FLANGE DETAIL
2" WELDED TYPE ADAPTER

SPECIFICATION REFERENCE

ONE WAY MOUNT
UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

DATE
Dwg. No. 404-1212
Sheet 1 of 1

Effective 07/01/08 - 12/30/08

Effective 07/01/08 - 12/30/08
NOTE:
1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY’S TRAFFIC ENGINEER.
NOTE:
1. Alternate locations for the signal pole may be approved by the agency's traffic engineer.
NOTE:
1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY’S TRAFFIC ENGINEER.
NOTE:
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).

PED. PUSH BUTTONS, SEE 404.406 FOR DRILLING DETAILS.

MOUNT SIGNAL ASSEMBLIES ON SIDE OF POLE. 180° OPPOSITE OF CURB LINE AS SHOWN. SEE DWG. 404.600 FOR DRILLING DETAILS.
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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

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<th>SPECIFICATION REFERENCE</th>
<th>UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA</th>
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<tbody>
<tr>
<td></td>
<td>TYPICAL TRAFFIC SIGNAL UNDERGROUND LAYOUT WITH INTERIM STREET LIGHTING AND SERVICE PEDESTAL (CENTER OF CURVE RADIUS)</td>
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<td>DATE 3-13-03</td>
<td>DWG. NO. 404.1306</td>
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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-" 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.
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 BUSING, SPACE FOR A MINIMUM OF TEN FULL SIZE (1") 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.

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

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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
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.

* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.
NOTE:
THERMOSTAT, FAN WIRING, AND TERMINAL BLOCK CONNECTIONS NOT SHOWN.

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.

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

125 V. AC 60 HZ. SERVICE

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA

AUXILIARY CABINET
EQUIPMENT WIRING

DATE    DWG. NO. 404.1414    SHEET 1 OF 1
Effective 07/01/08 - 12/30/08

- **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.**
- **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 1: Do Not Make Compound Bends in Conduit**

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**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**
CCTV CAMERA
COHU 3965 - 4101
(OR APPROVED EQUAL)

CABLE AND CONNECTOR:
PART OF CAMERA ACCESSORY

POLE CAP

CAMERA & LENS HOUSING

CAMERA ADAPTER STAND (SEE DWG. NO. 404.1500, SHEET 3 OF 3)

1/2 S.S. ALL THREAD w/SINGLE S.S. FLAT WASHER AND DOUBLE S.S. NUTS (EACH SIDE) TO EXTEND COMPLETELY THROUGH POLE AND CAP (2-ALL-THREAD BOLTS REQ'D PER POLE WITH EACH OFFSET TO EXTEND THROUGH POLE)

CONNECTS TO CA295H CABLE (MALE)

CONNECTS TO CAMERA ACCESSORY (FEMALE)

WEATHER PROOF MS STYLE CONNECTOR

TRAFFIC SIGNAL POLE

CABLE (COHU MODEL CA295H OR APPROVED EQUAL) SEE CABLE WIRING DIAGRAM (DWG. NO. 000.000, SHEET 2 OF 3)

CONNECT TO BACK OF LOCAL CCTV CAMERA CONTROL UNIT COHU 9300 SERIES i-CONTROL (OR APPROVED EQUAL IN TRAFFIC CONTROLLER CABINET) (MALE) (SEE DWG. NO. 404.1500, SHEET 2 OF 3)

FOR CCTV AND CONTROL UNIT DETAILS SEE 687 SPECIFICATIONS.
CONNECTS TO CAMERA ACCESSORY (FEMALE) (SEE DWG. NO. 404.1500, SHEET 1 OF 3)

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)

115 VAC/60 HZ

LOCAL CCTV CAMERA CONTROL UNIT COHU 9300 SERIES i-CONTROL (OR APPROVED EQUAL) (IN TRAFFIC CONTROLLER CABINET)
CAMERA ADAPTER STAND
(REQUIRED FOR POLE CAP MOUNTING)

- MAT'L (FLANGE): 1018 STEEL OR EQUIV.
- MAT'L (TUBE): Ø 3.5 X 1/8 WALL 1018 STEEL OR EQUIV

3. FINISH: YELLOW CHROMATE CONVERSION COAT TYPE I PER MM-42 OR MIL-C-5541B CLASS 1A

4. PAINT ALL SURFACES LIGHT GRAY METAL FINE USING 3310942-478 PER MM-33 OR FEDERAL TEST METHOD STD NO.141, FINE TEXTURE OUTSIDE SURFACE ONLY AND OVERSPRAY PERMITTED.

5. REMOVE ALL BURRS AND SHARP EDGES 0.015 MAX

NOTE:
A 10' EXTENSION PROVIDED WHEN REQUIRED DESIGNED BY INSTALLER AND APPROVED BY RTC-FAST.