

# 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.rtcsonthernnevada.com](http://www.rtcsonthernnevada.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



PULL BOX



SIGNAL LUMINAIRE POLE, POST



UTILITY POLE



CONTROL CABINET



CONDUIT RUN



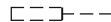
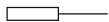
AERIAL CABLE



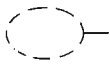
DETECTOR LOOP



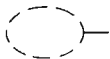
PADMOUNT, ELECTRICAL SERVICE OR SPLICE BOX



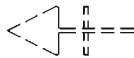
FLUORESCENT LUMINAIRE



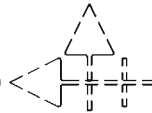
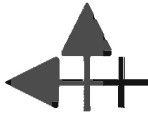
HIGH PRESSURE  
SODIUM LUMINAIRE - 750 WATT



HIGH PRESSURE  
SODIUM LUMINAIRE - 400 WATT



TRAFFIC SIGNAL INDICATION WITH BACKPLATE



TRAFFIC SIGNAL INDICATION WITH DIRECTIONAL  
ARROW AND BACKPLATE



PEDESTRIAN INDICATION AND DIRECTION



HAZARD BEACON, ONE WAY

SPECIFICATION REFERENCE

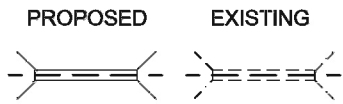
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

STANDARD SYMBOLS FOR  
TRAFFIC SIGNAL DRAWINGS

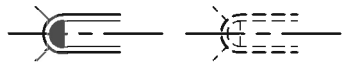
DATE 12-12-96

DWG. NO. 404.001

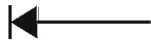
SHEET 1 OF 2



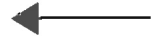
STREET NAME SIGN  
INTERNALLY ILLUMINATED



CURB FLASHER



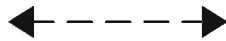
VEHICLE MOVEMENT (STOPPED)



VEHICLE MOVEMENT (MOVING)



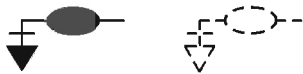
CONDUIT RUN NUMBER



PEDESTRIAN MOVEMENT



TRAFFIC SIGNAL ON MAST ARM



TRAFFIC SIGNAL AND LUMINAIRE  
ON MAST ARMS



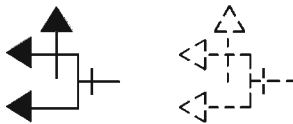
PEDESTRIAN PUSH BUTTON  
INDICATING DIRECTION OF CONTROL



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)

SPECIFICATION REFERENCE

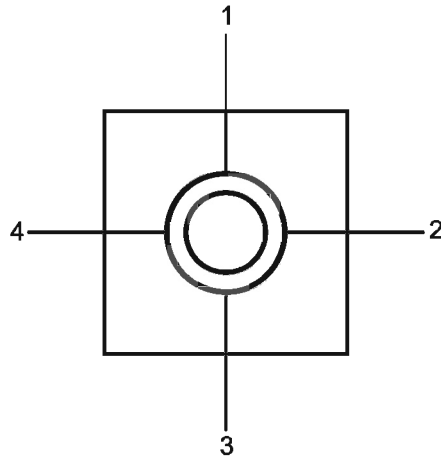
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

STANDARD SYMBOLS FOR  
TRAFFIC SIGNAL DRAWINGS

DATE 12-12-96

DWG. NO. 404.001

SHEET 2 OF 2



QUADRANT  
 ARM OR SIGNAL LOCATION  
 (TOP VIEW)

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

SPECIFICATION REFERENCE

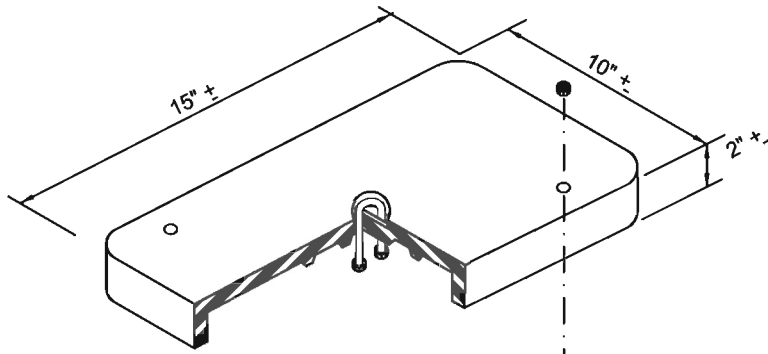
UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

QUADRANT DETAIL

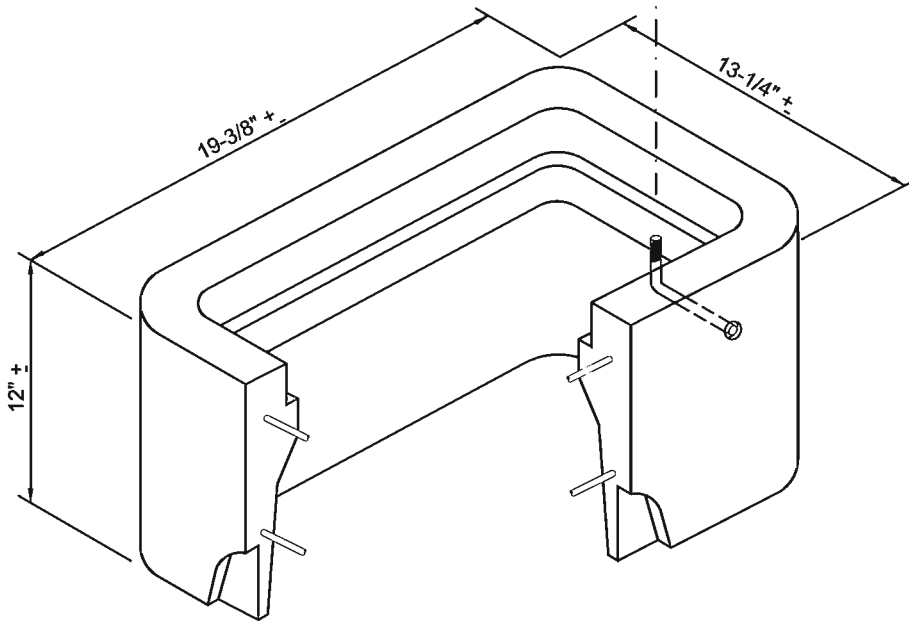
DATE

DWG. NO. 404.002

SHEET 1 OF 1



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.

SPECIFICATION REFERENCE

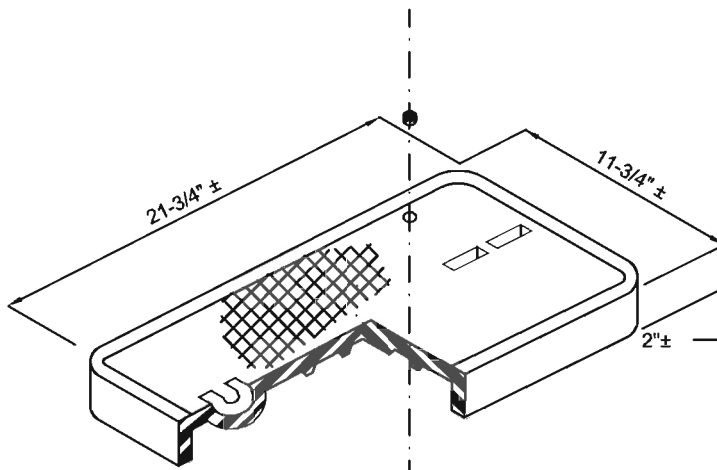
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

NO. 3-1/2 PULL BOX

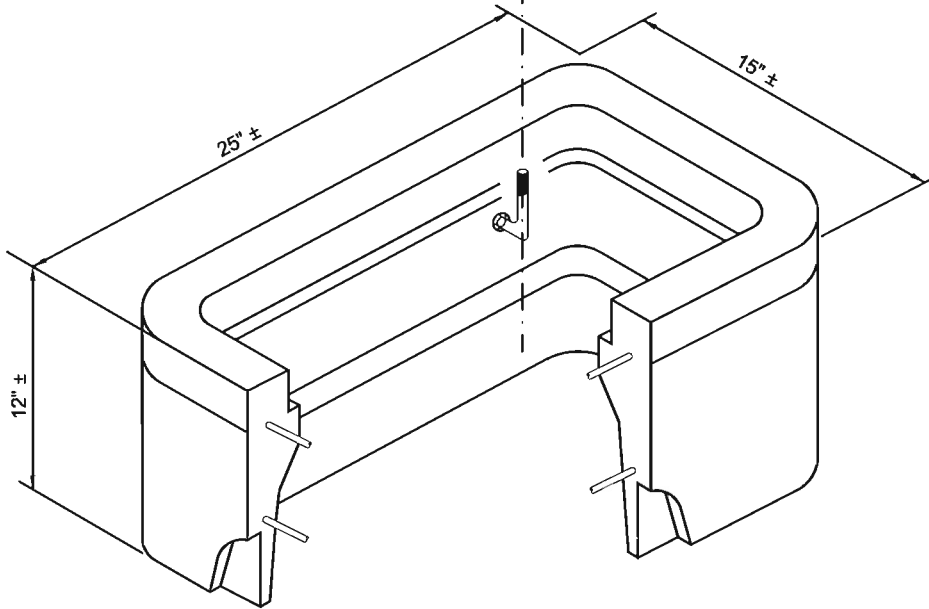
DATE

DWG. NO. 404.110

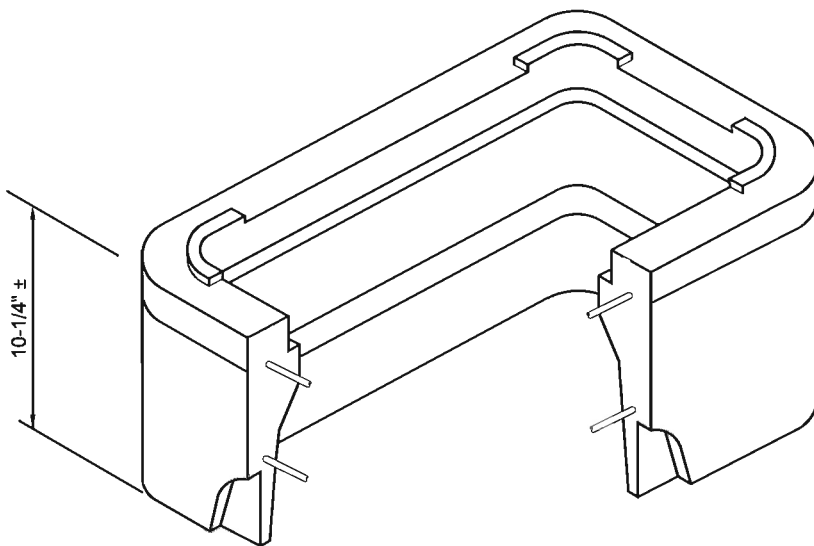
SHEET 1 OF 1



CAST IRON SIDEWALK COVER  
MARKED "TRAFFIC SIGNAL"



PRECAST REINFORCED  
CONCRETE BODY



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

**NOTES:**

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

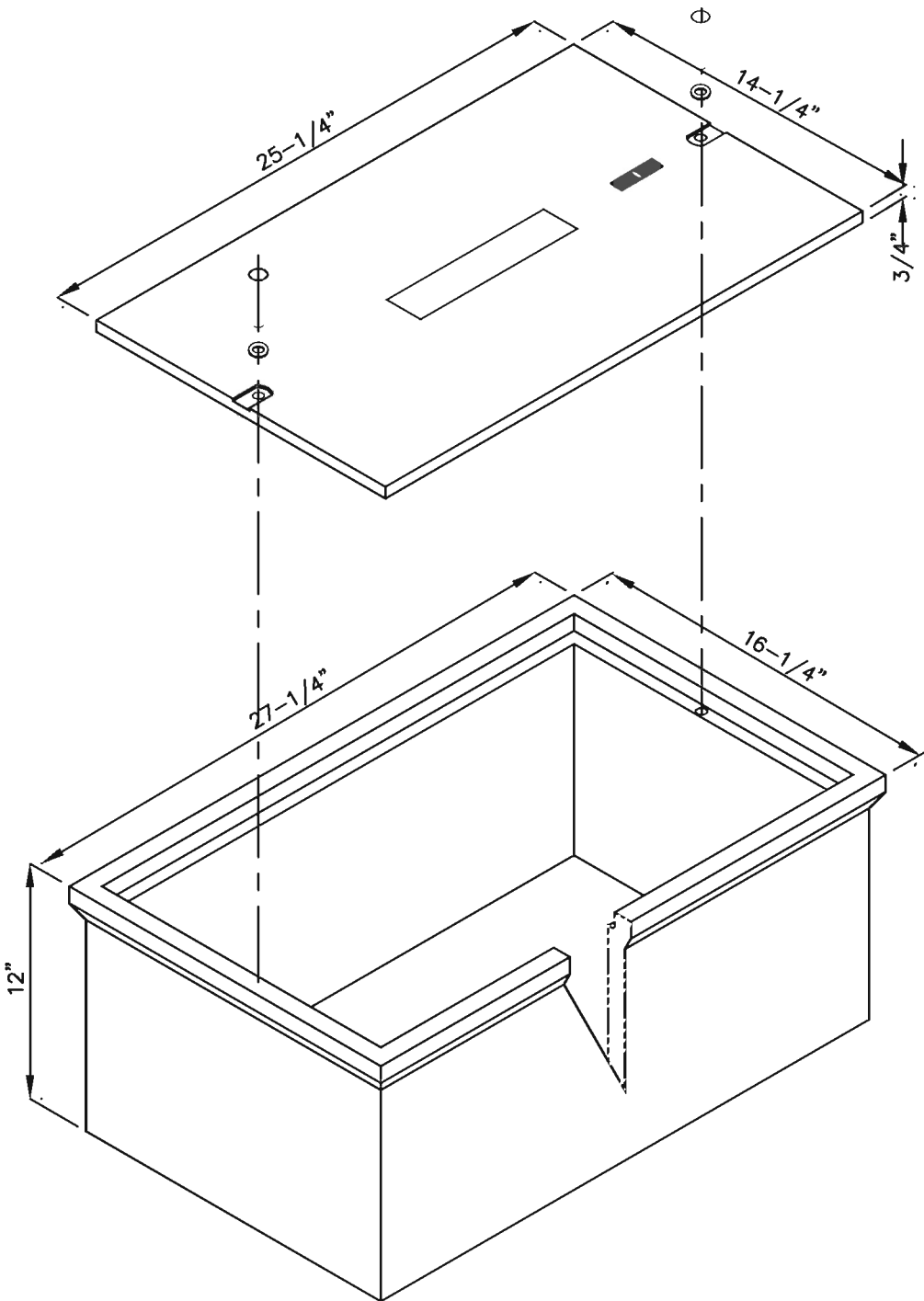
NO. 5 PULL BOX

DATE

DWG. NO. 404.120

SHEET 1 OF 1

PLASTIC MORTAR REINFORCED  
SIDEWALK COVER, MARKED  
"TRAFFIC SIGNAL"



REINFORCED PLASTIC  
MORTAR EXTENSION.

NOTES:

- 1. THIS PULL BOX SHALL NOT BE USED IN VEHICLE TRAVEL AREAS.
- 2. PULL BOX TO BE USED IN CONCRETE SIDEWALKS ONLY.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

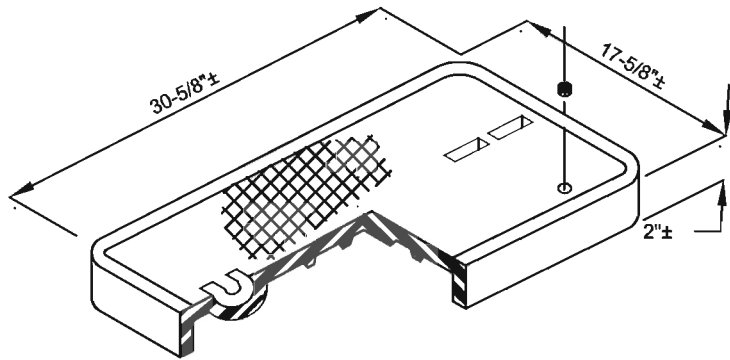
REINFORCED PLASTIC MORTAR  
SERVICE BOX ASSEMBLY #5

DATE

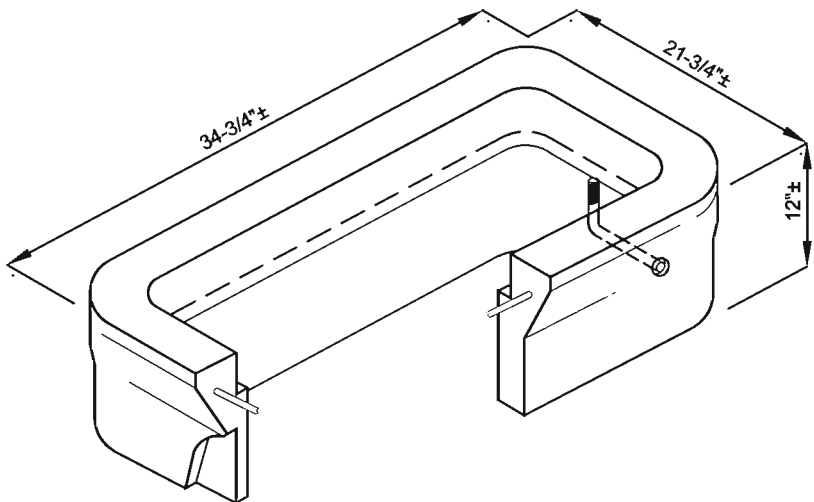
DWG. NO. 404.121

SHEET 1 OF 1

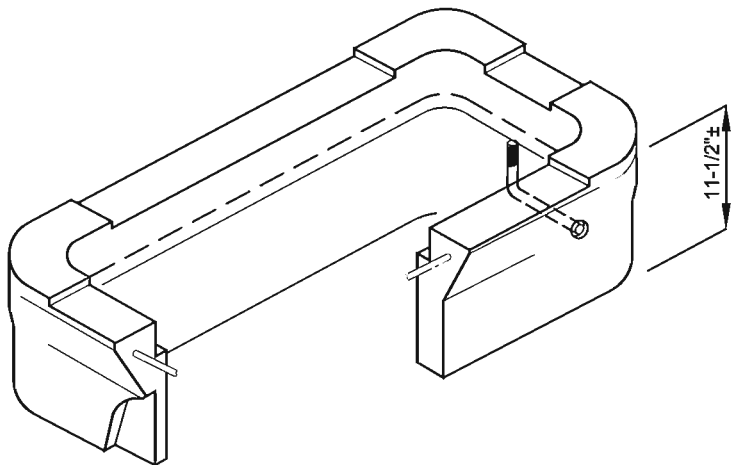
Effective 07/01/08 - 12/30/08



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

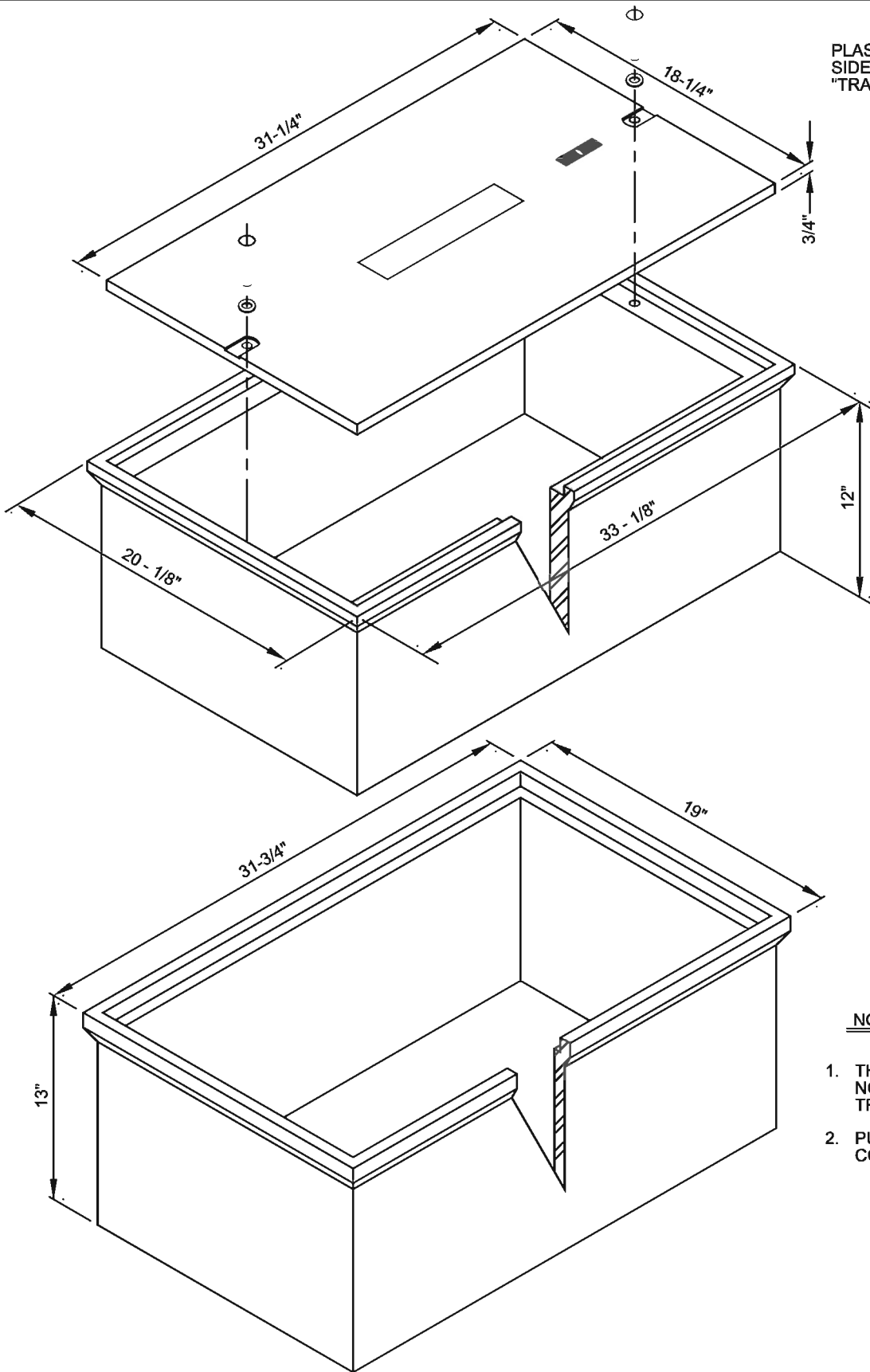
UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

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

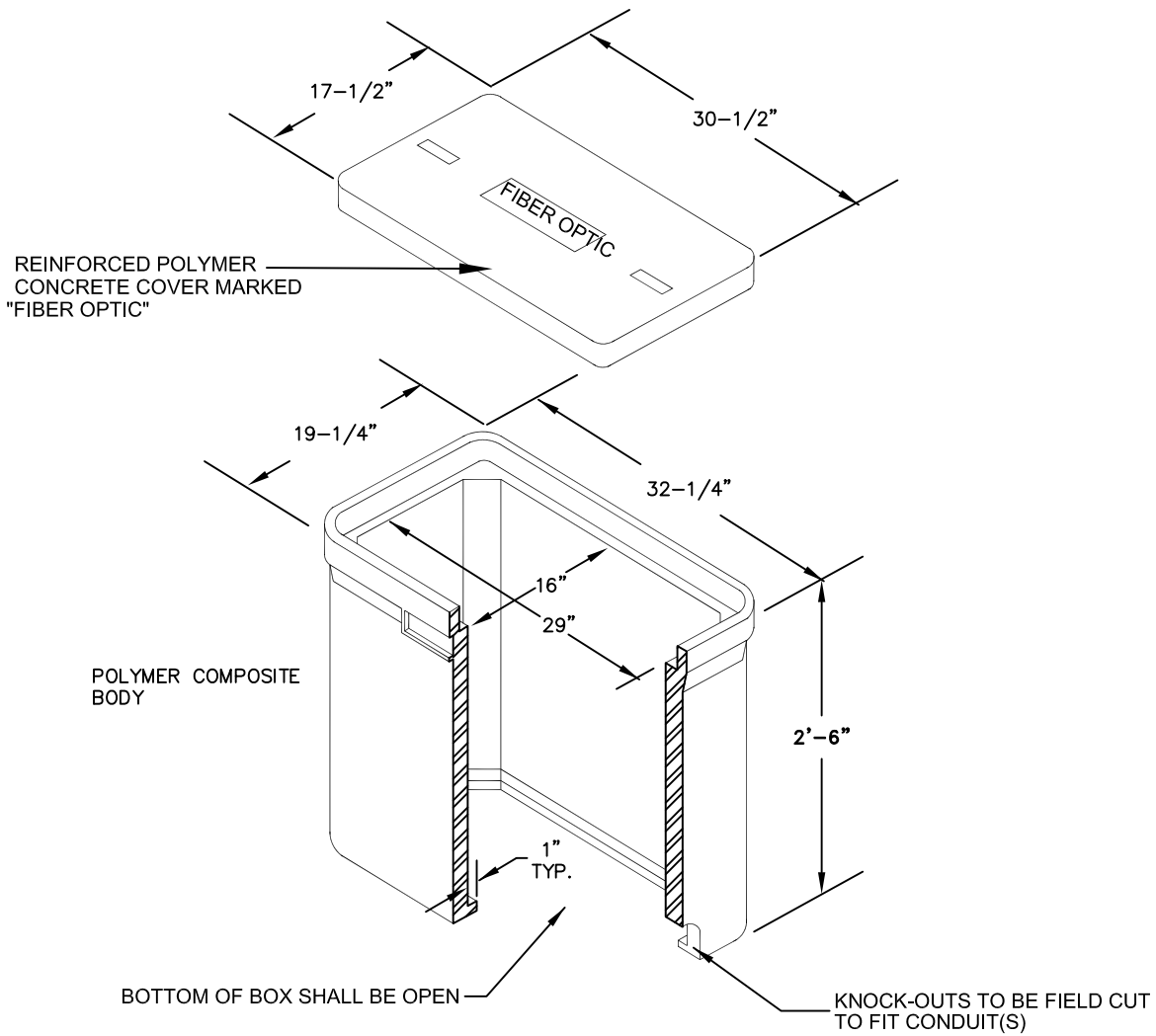
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

REINFORCED PLASTIC MORTAR  
SERVICE BOX ASSEMBLY #7

DATE

DWG. NO. 404.131

SHEET 1 OF 1

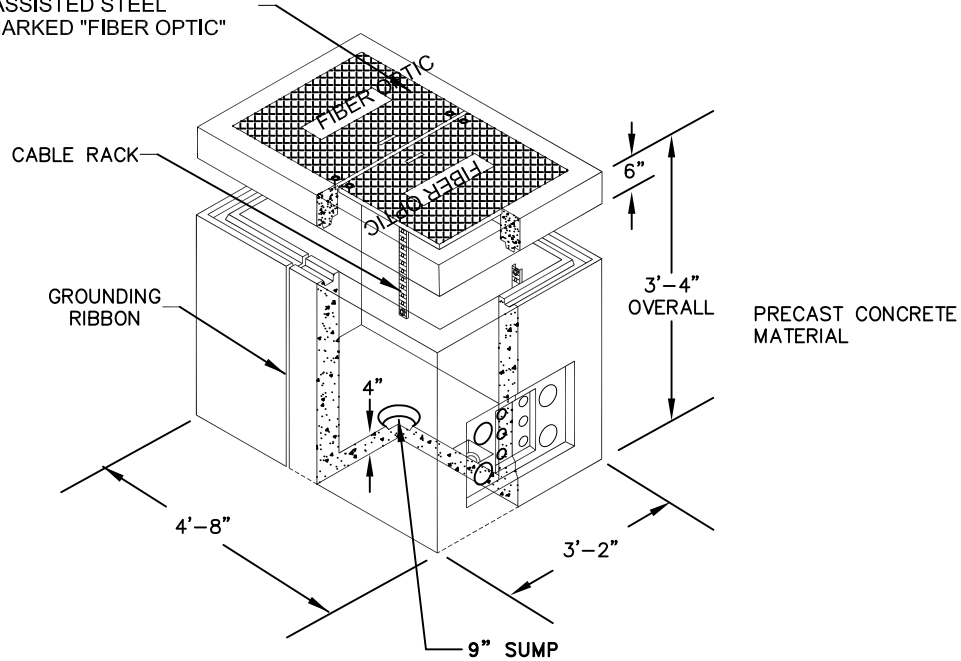


**NOTES:**

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					
		<b>"P30" PULL BOX</b> (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"



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

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

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		TYPE 200 VAULT ( FOR USE AT FIBER OPTIC SPLICE POINTS )	
		DATE 3-13-08	DWG. NO. 404.133
			SHEET 1 OF 1



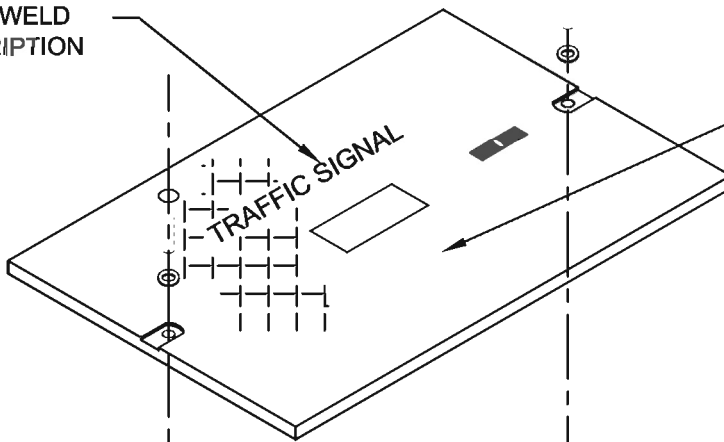
WELD PLATE  
STIFFENERS

BOTTOM VIEW

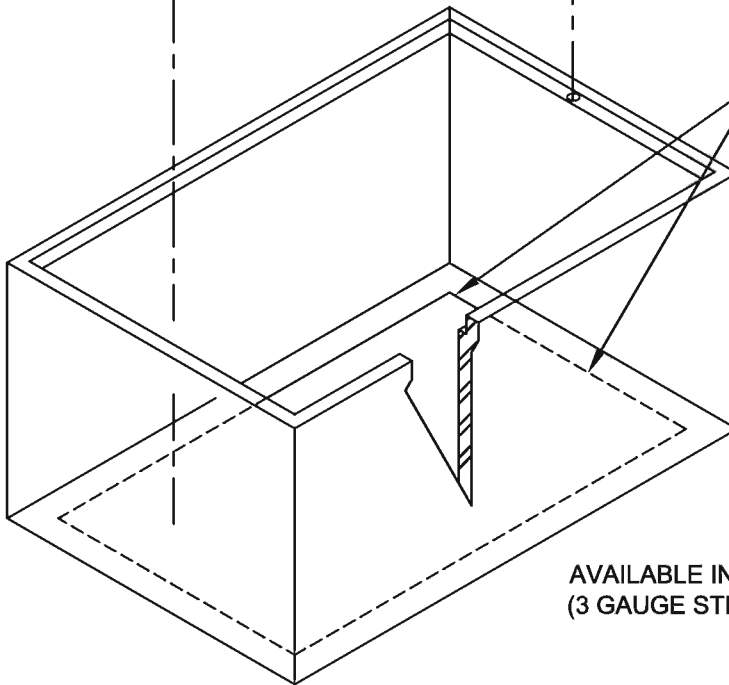


SIDE VIEW

BEAD WELD  
INSCRIPTION



3/8" DIAMOND PLATE



2" LIP AROUND INSIDE OF  
PULL BOX

NOTE:

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

AVAILABLE IN #3, #5, & #7 SIZES  
(3 GAUGE STEEL)

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

STEEL PULL BOXES

DATE

DWG. NO.

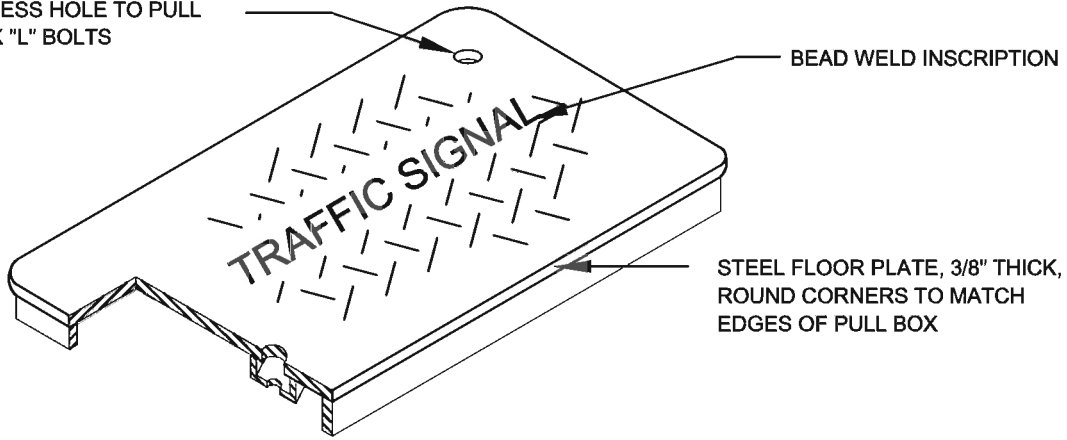
404.139

SHEET

1 OF 1

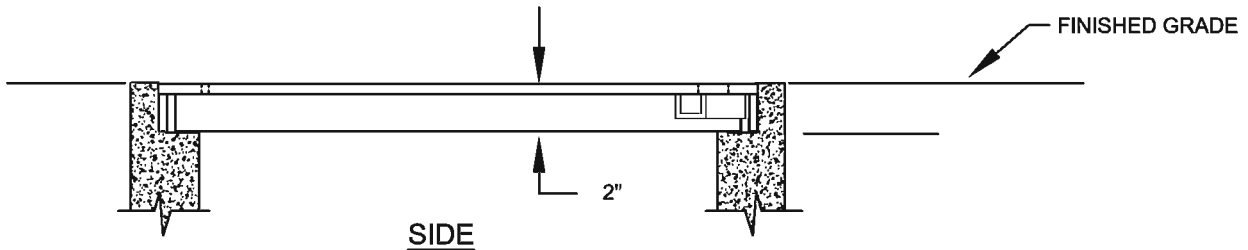
ACCESS HOLE TO PULL  
BOX "L" BOLTS

BEAD WELD INSCRIPTION



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

COVER

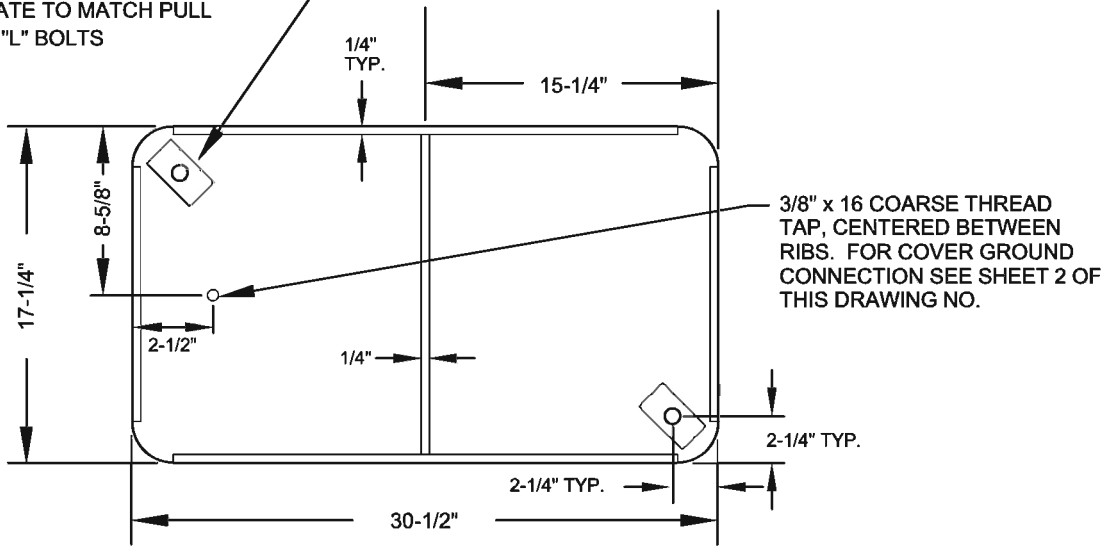


FINISHED GRADE

2"

SIDE

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



BOTTOM

NOTES:

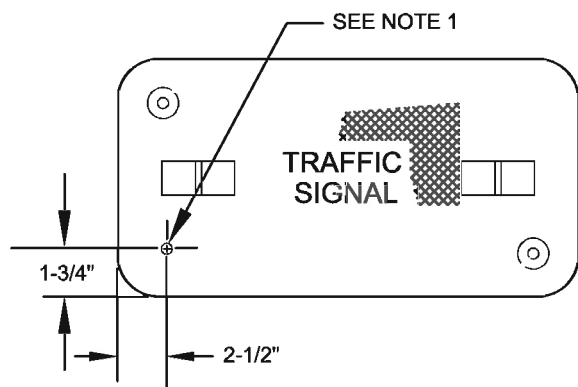
1. THIS COVER TO BE USED IN STREET AREAS AND UNDEVELOPED AREAS ONLY.
2. TYPICAL NO. 7 PULL BOX COVER SHOWN. SUBMIT OTHERS TO THE ENGINEER FOR APPROVAL.
3. ALL TRAFFIC AND OPEN AREA COVERS SHALL BE H 20 RATED.
4. GROUNDING OF STEEL PULL BOX COVERS IS NOT NECESSARY FOR PULL BOXES CONTAINING LOW VOLTAGE, POWER-LIMITED CONNECTIONS.

SPECIFICATION REFERENCE

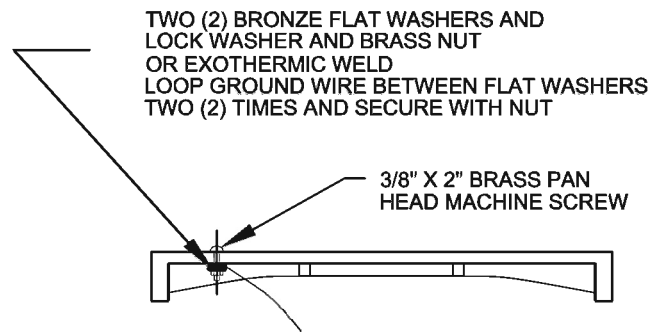
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

506	STEEL STRUCTURES
623	TRAFFIC SIGNALS & STREETLIGHTING

PULL BOX STREET COVER

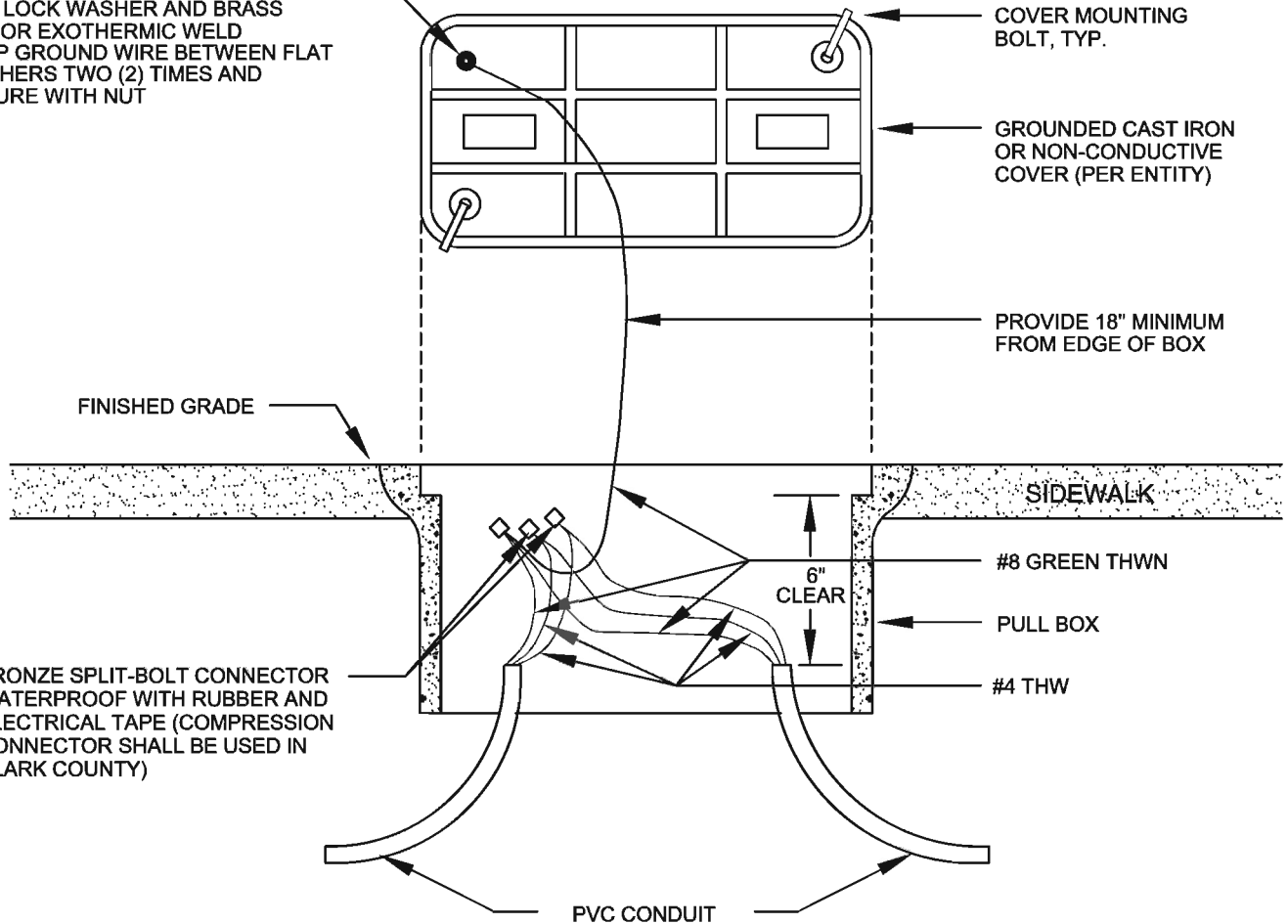


PULL BOX COVER - TOP VIEW



PULL BOX COVER - SIDE 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



(TYPICAL CAST IRON LID SHOWN)

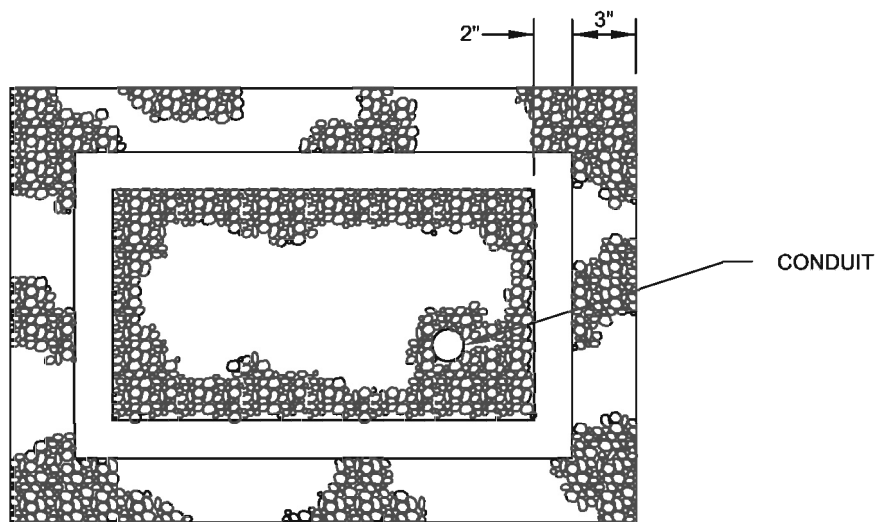
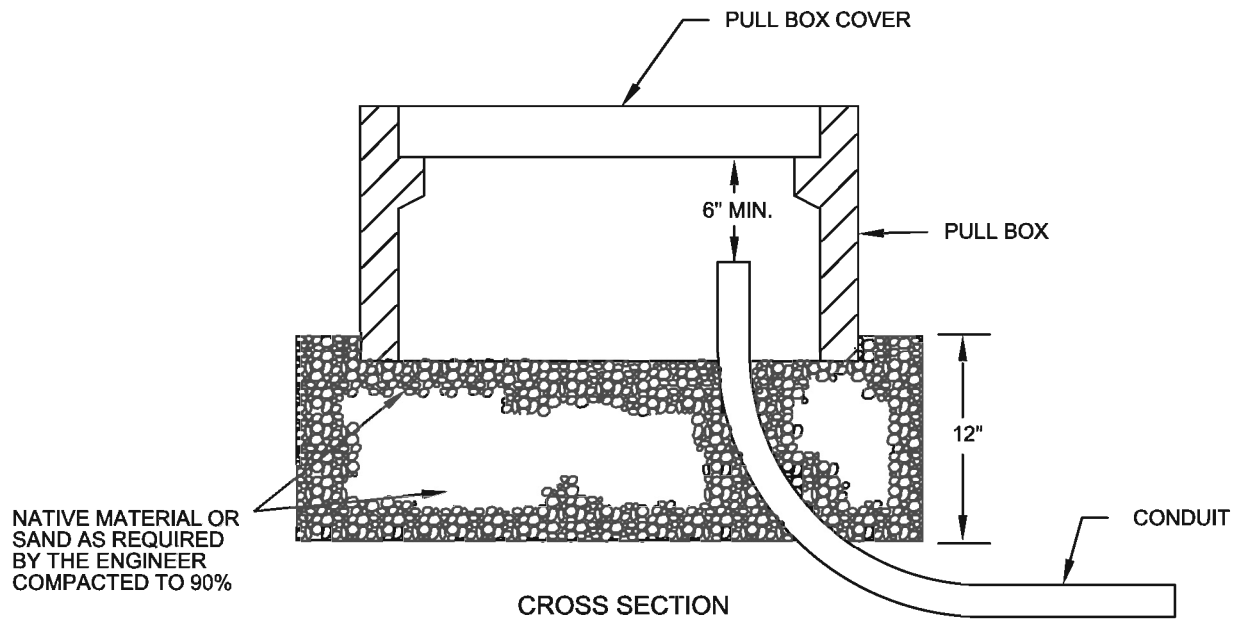
**NOTES:**

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.

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

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
623	TRAFFIC SIGNALS & STREETLIGHTING	PULL BOX COVER BONDING DETAIL			
		DATE 12-12-96	DWG. NO.	404.140	SHEET 2 OF 2

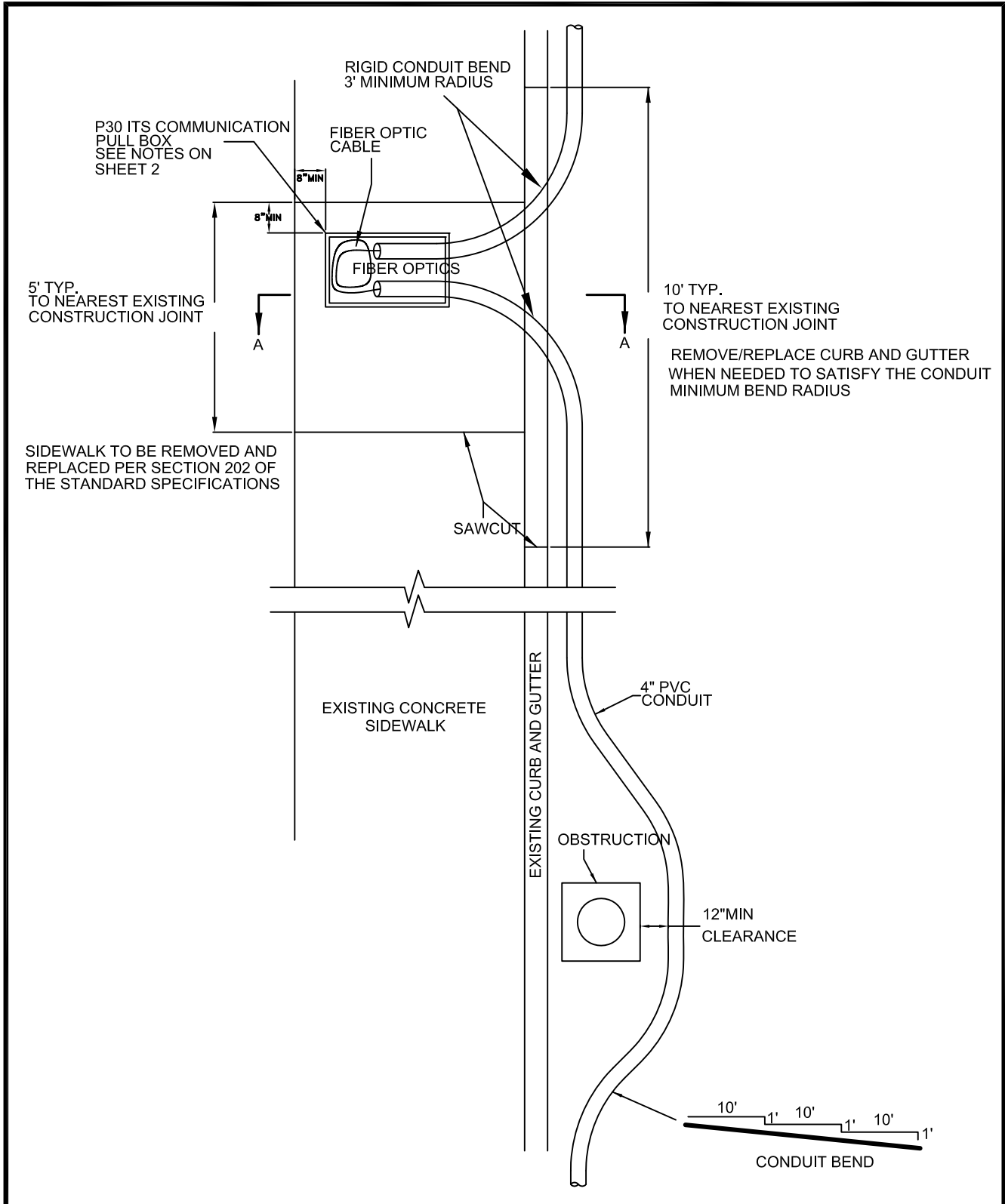


TOP VIEW

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

PULL BOX  
FOUNDATION



SPECIFICATION REFERENCE	

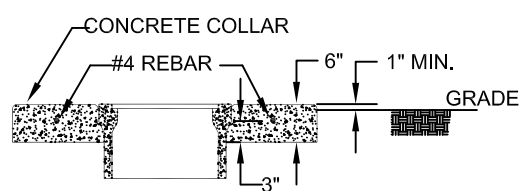
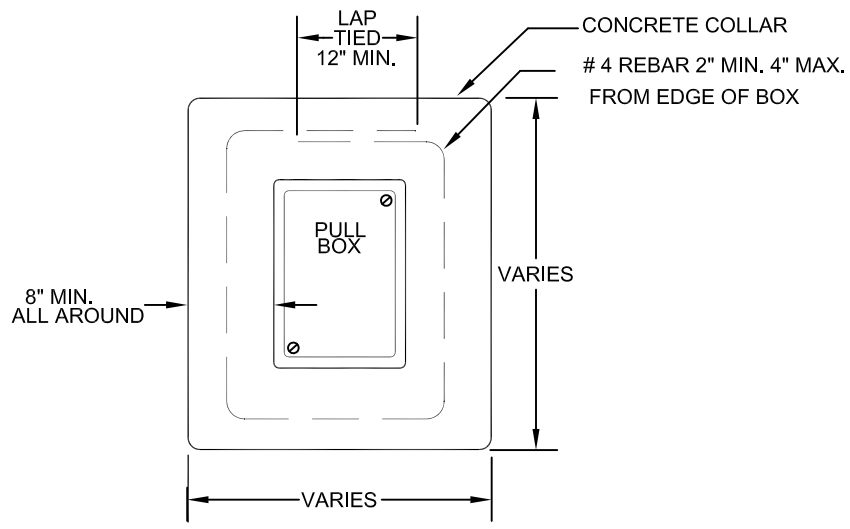
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

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

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

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





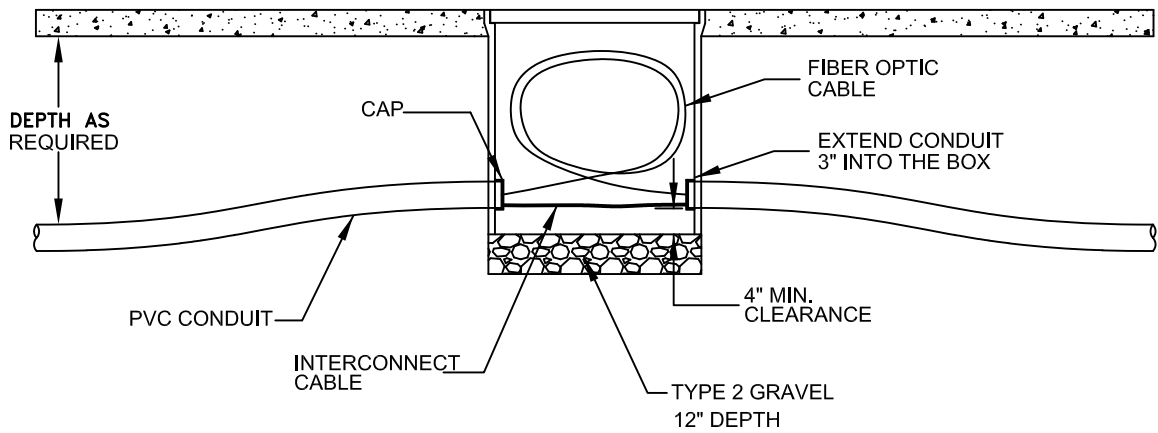
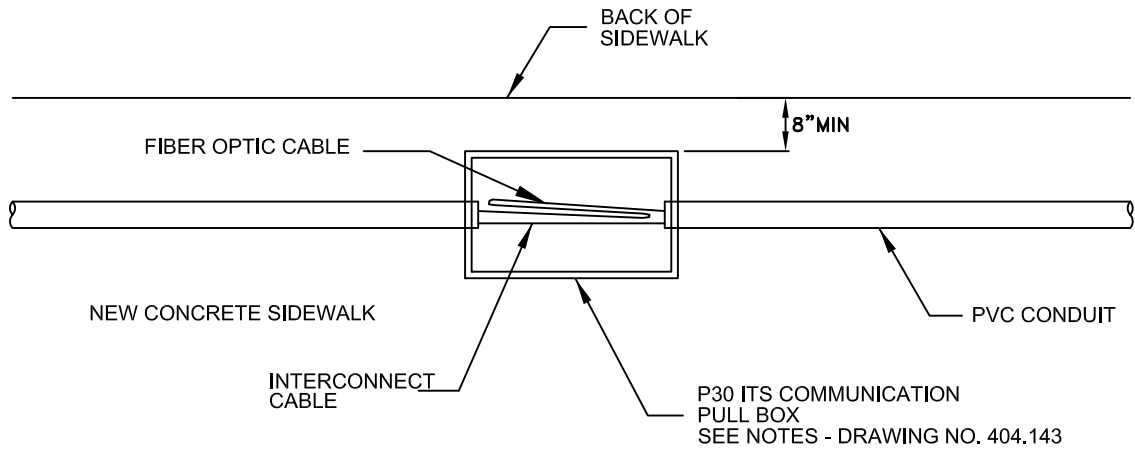
TYPICAL SECTION

**PULL BOX CONCRETE COLLAR  
IN UNDEVELOPED AREAS**

**NOTES:**

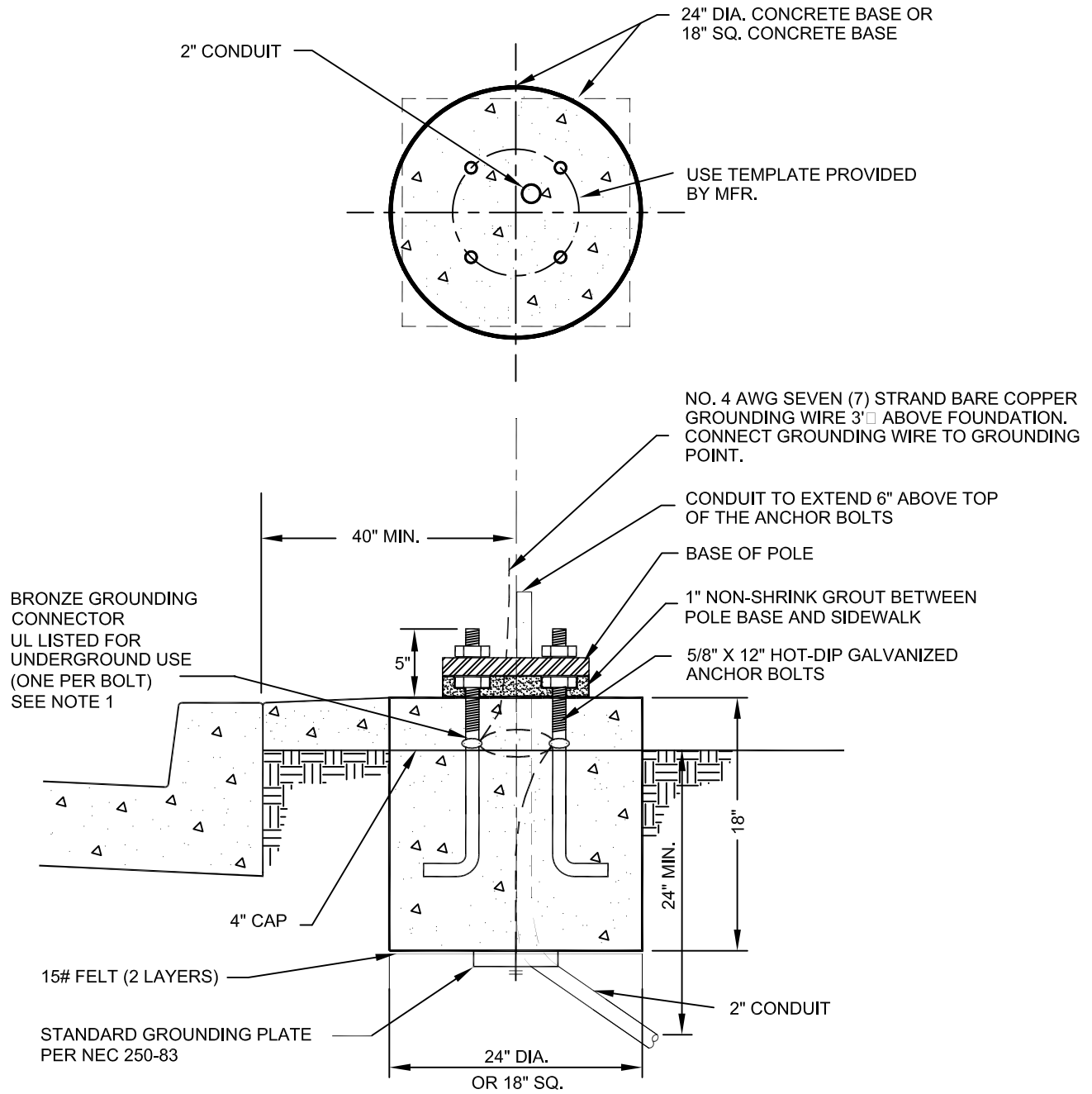
- 1 P30 PULL BOXES SHALL BE INSTALLED FOR THE SIGNAL ITS COMMUNICATIONS PER APPLICABLE STANDARDS.
- 2 PULL BOX COVER SHALL BE INSCRIBED "FIBER OPTIC".
- 3 LOCATIONS OF THE PROPOSED P30 ITS COMMUNICATION PULL BOXES SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE LOCATIONS IN THE FIELD AT APPROXIMATELY 500 FEET INTERVALS. THESE LOCATIONS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER BEFORE INSTALLATION.
- 4 DETAIL SHOWS METHOD OF INSTALLATION WHEN FIBER OPTIC CABLE IS REQUIRED.
- 5 CONDUIT SIZES SHALL BE PER UNIFORM STANDARD SPECIFICATIONS, SECTION 623.
- 6 ALL CONDUITS SHALL HAVE A CONTINUOUS RUN OF 6 PAIR PE39 #22 AWG INTERCONNECT CABLE.
- 7 UNDERGROUND ORANGE MARKING TAPE SHALL BE PLACED 12 INCHES ABOVE THE INSTALLED CONDUIT AND MARKED WITH THE LEGEND "FIBER OPTIC".

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



SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
		<b>ITS COMMUNICATION CONDUIT AND PULL BOX DETAIL INSTALLED UNDER NEW SIDEWALK</b>			
DATE	3-13-08	DWG. NO.	404.144	SHEET	1 OF 1

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



**NOTE:**

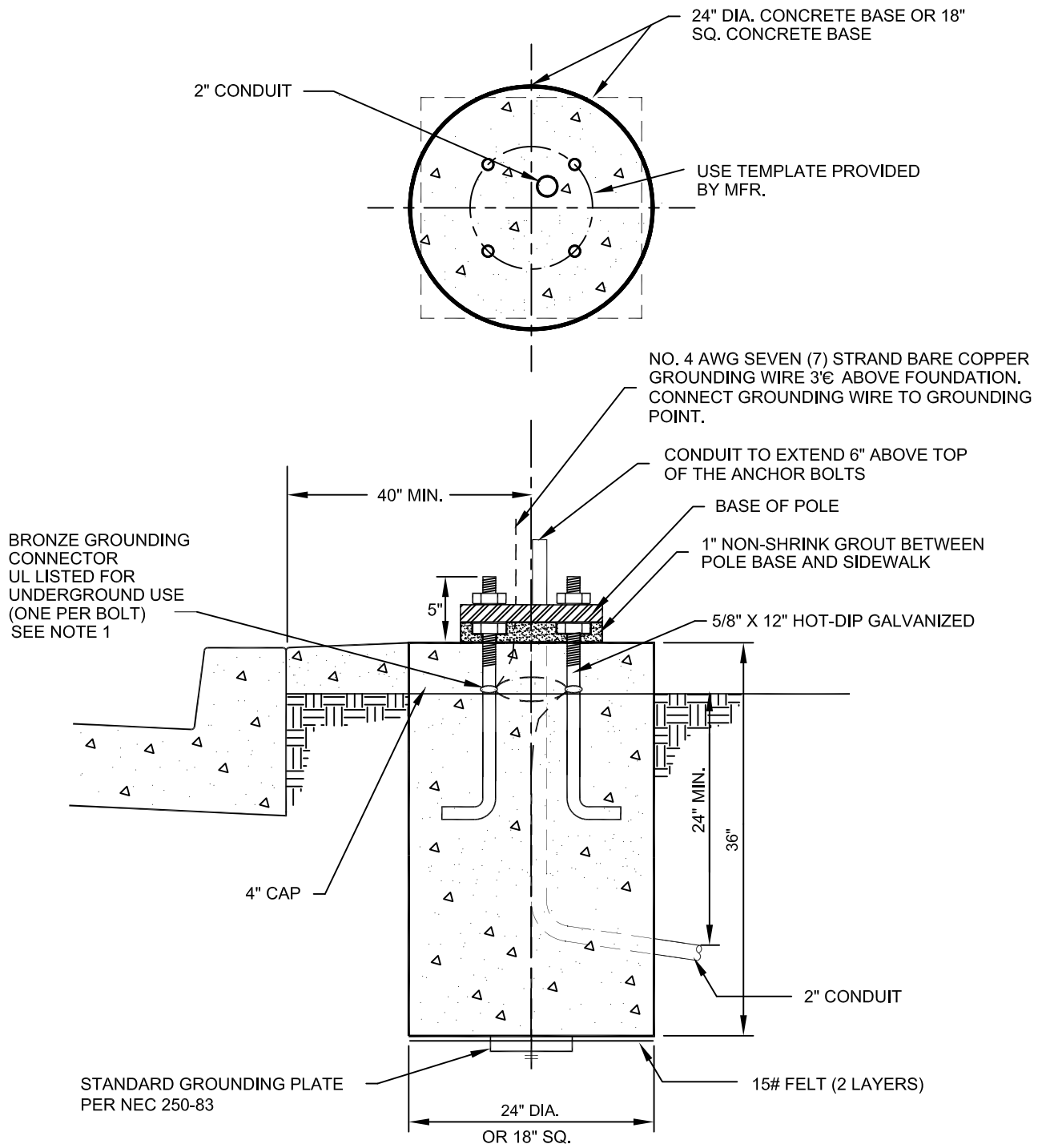
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

**SPECIFICATION REFERENCE**

623G.03.06 FOUNDATION  
 623T.02.02 ANCHOR BOLT

**UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA**

**TYPE "A" FOUNDATION**



**NOTE:**

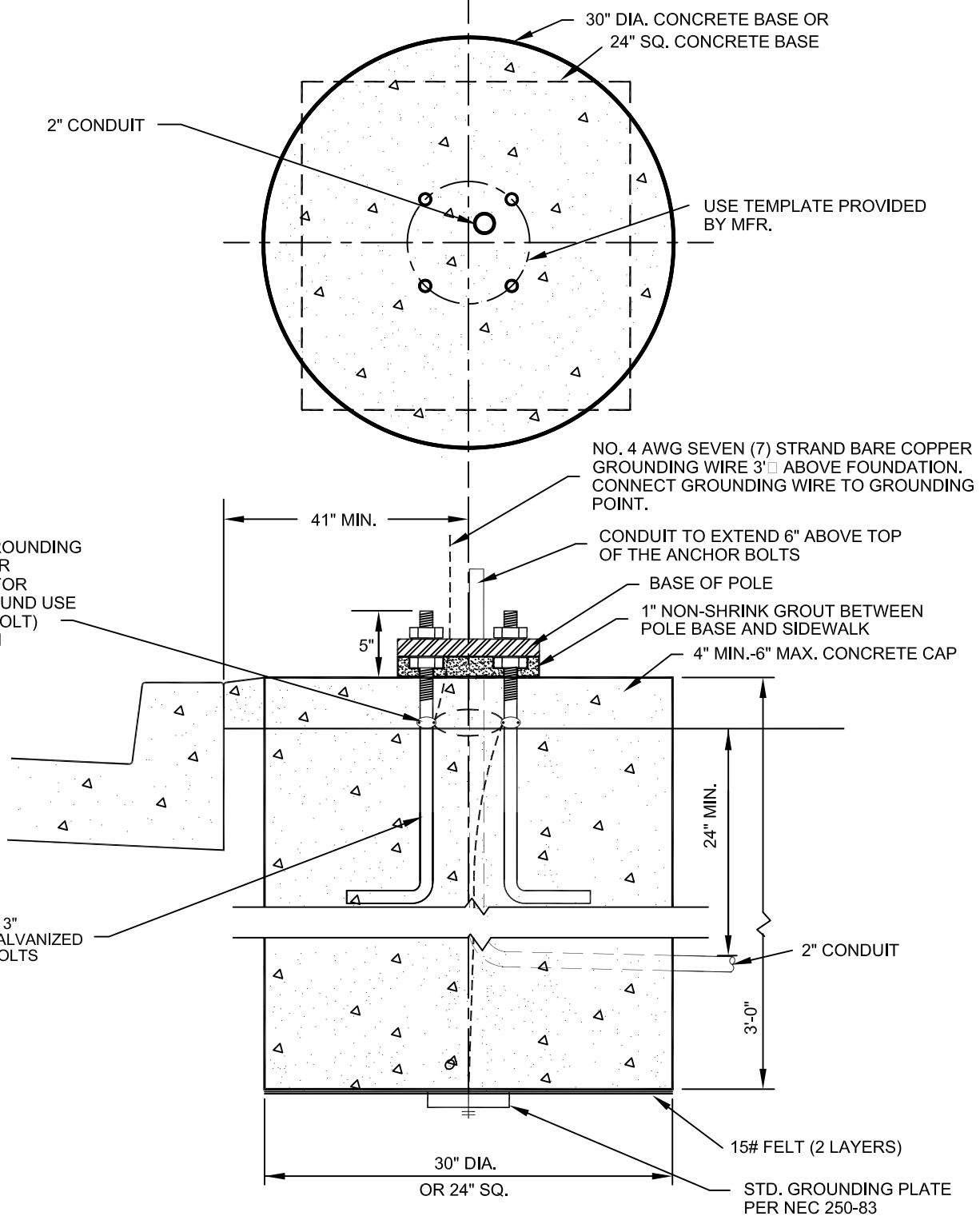
1. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

**SPECIFICATION REFERENCE**

623G.03.06 FOUNDATION  
 623T.02.02 ANCHOR BOLT

**UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA**

**TYPE "B" FOUNDATION**



**NOTE:**

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

SPECIFICATION REFERENCE

623G.03.06 FOUNDATION  
623T.02.02 ANCHOR BOLT

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE "C" FOUNDATION

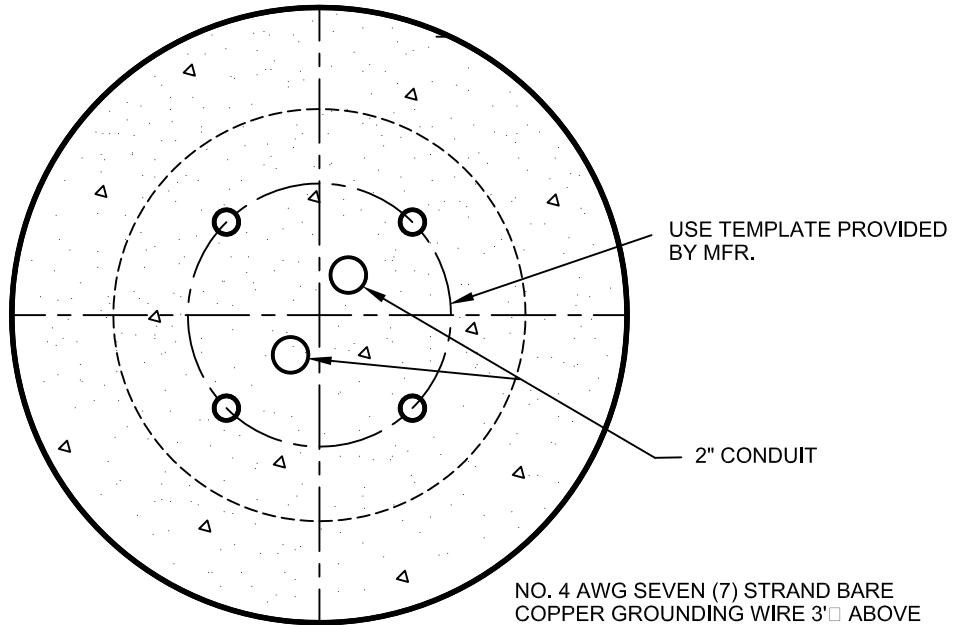
DATE 9-14-00

DWG. NO. 404.203

SHEET 1 OF 1

**NOTES:**

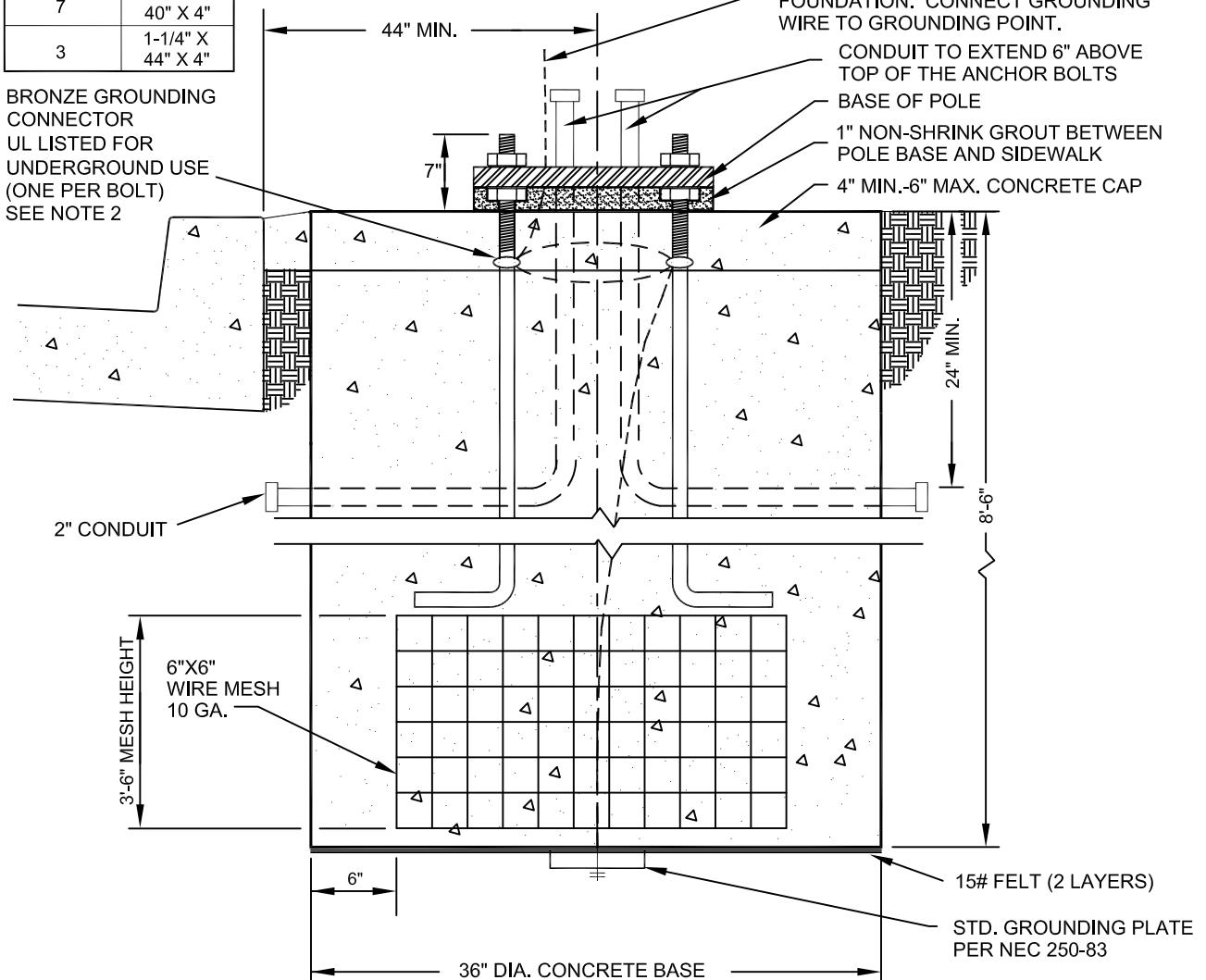
- ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
- CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.



ANCHOR BOLTS	
POLE GA.	BOLT "E"
11	SEE POLE DRAWING
7	1-1/8" X 40" X 4"
3	1-1/4" X 44" X 4"

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

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



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

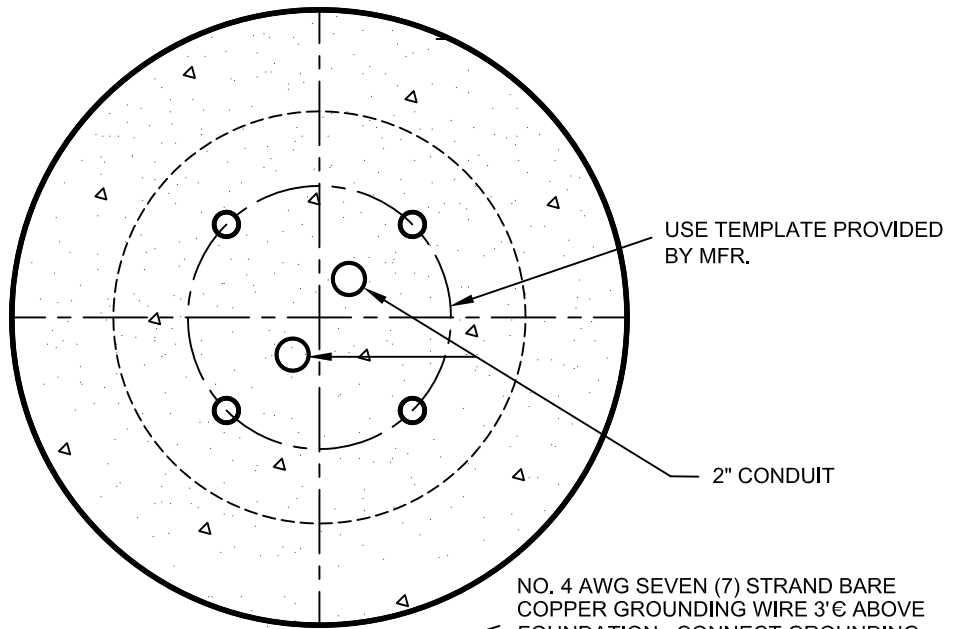
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
623G.03.06 FOUNDATION		TYPE "E" FOUNDATION	
		DATE 9-14-00	DWG. NO. 404.205
			SHEET 1 OF 1

**NOTES:**

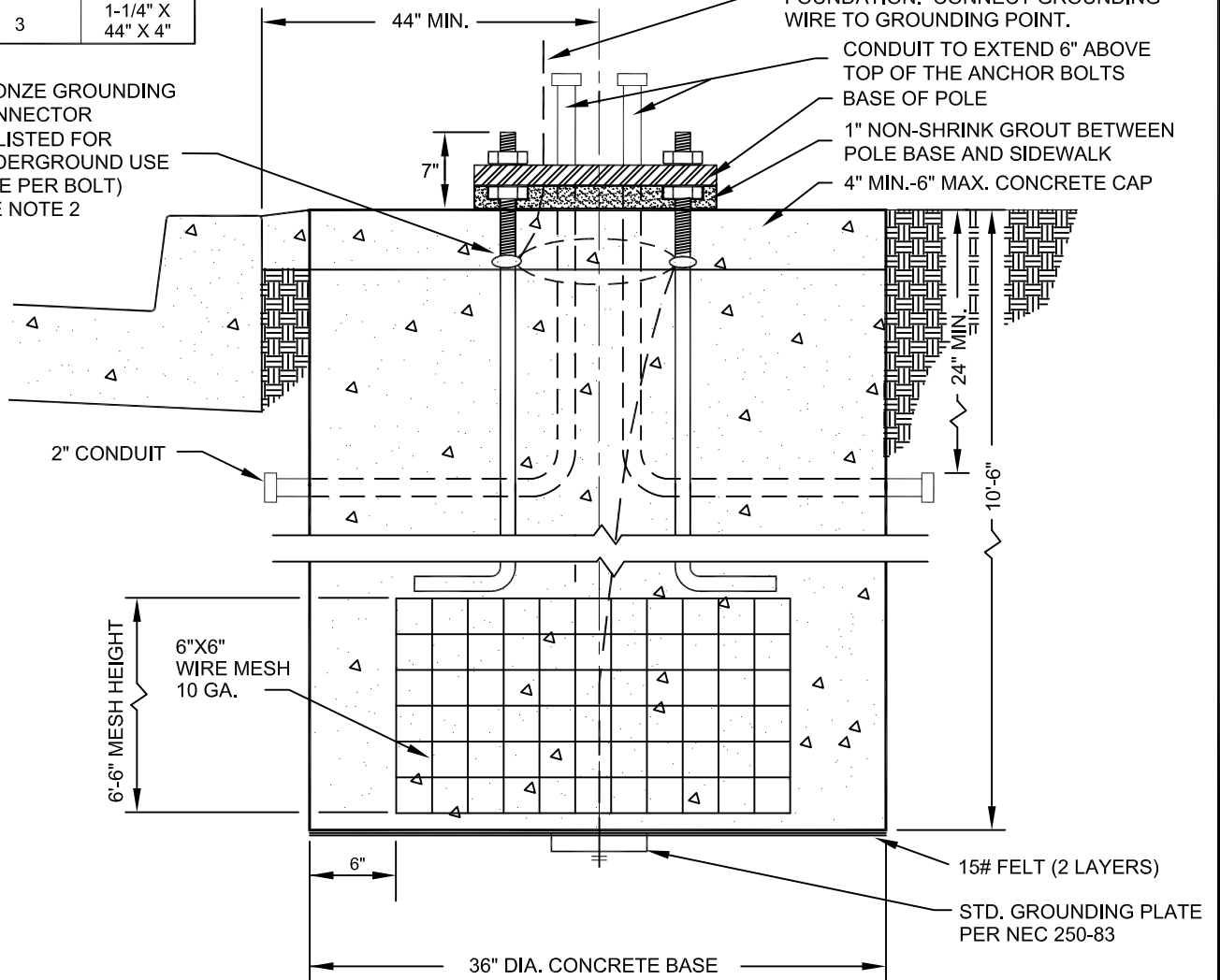
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

ANCHOR BOLTS	
POLE GA.	BOLT "E"
11	SEE POLE DRAWING
7	1-1/8" X 40" X 4"
3	1-1/4" X 44" X 4"

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



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



SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

623G.03.06 FOUNDATION

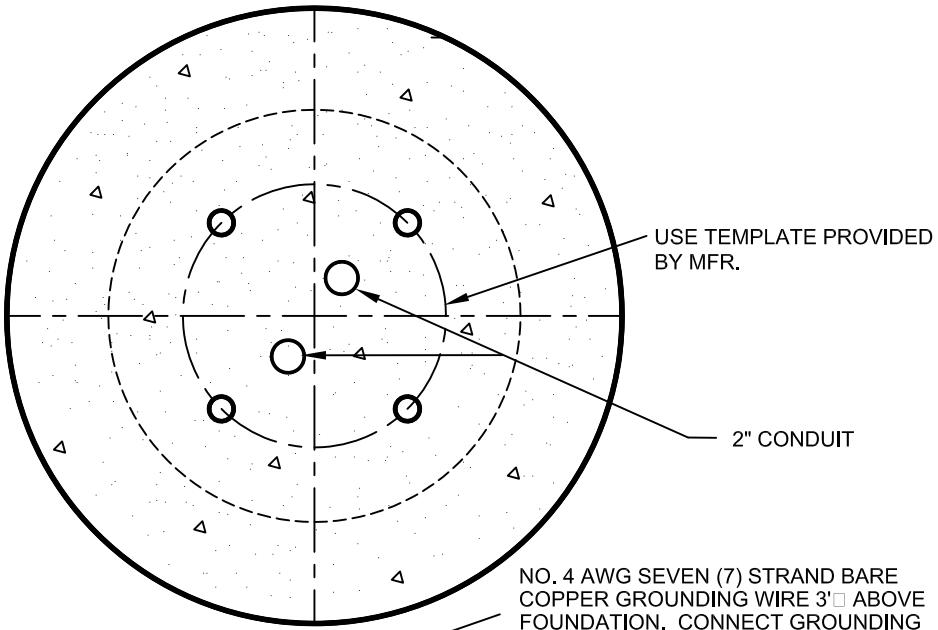
TYPE "F" FOUNDATION

**NOTES:**

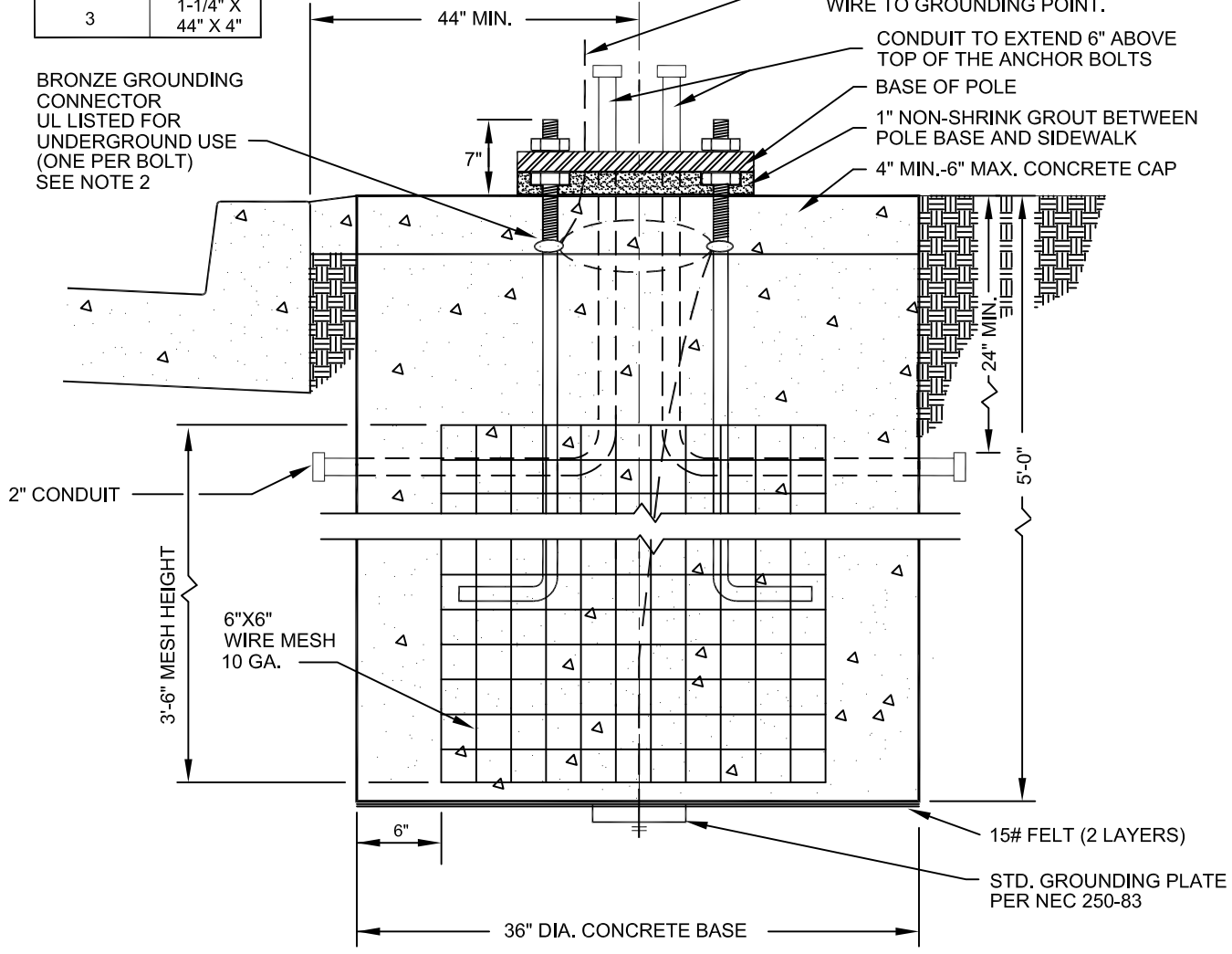
1. ANCHOR BOLTS SHALL BE HOT-DIP GALVANIZED STEEL WITH NUT AND WASHER.
2. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

ANCHOR BOLTS	
POLE GA.	BOLT "E"
11	SEE POLE DRAWING
7	1-1/8" X 40" X 4"
3	1-1/4" X 44" X 4"

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



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



SPECIFICATION REFERENCE

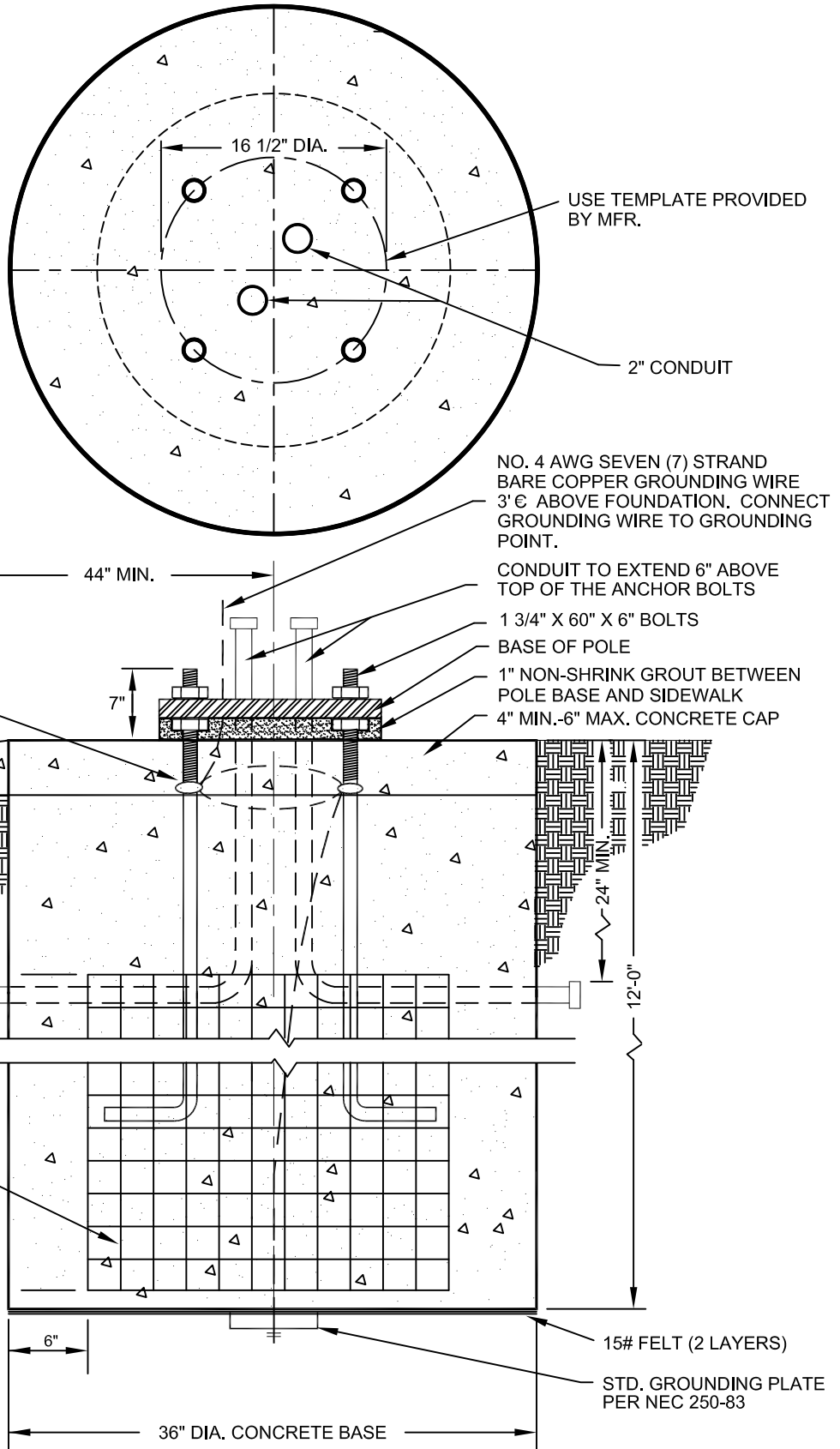
623G.03.06 FOUNDATION


UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE "G" FOUNDATION

**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.



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

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

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

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

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

2" CONDUIT

10'-0" MESH HEIGHT

6"X6" WIRE MESH 10 GA.

12'-0"

24" MIN.

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

36" DIA. CONCRETE BASE

SPECIFICATION REFERENCE

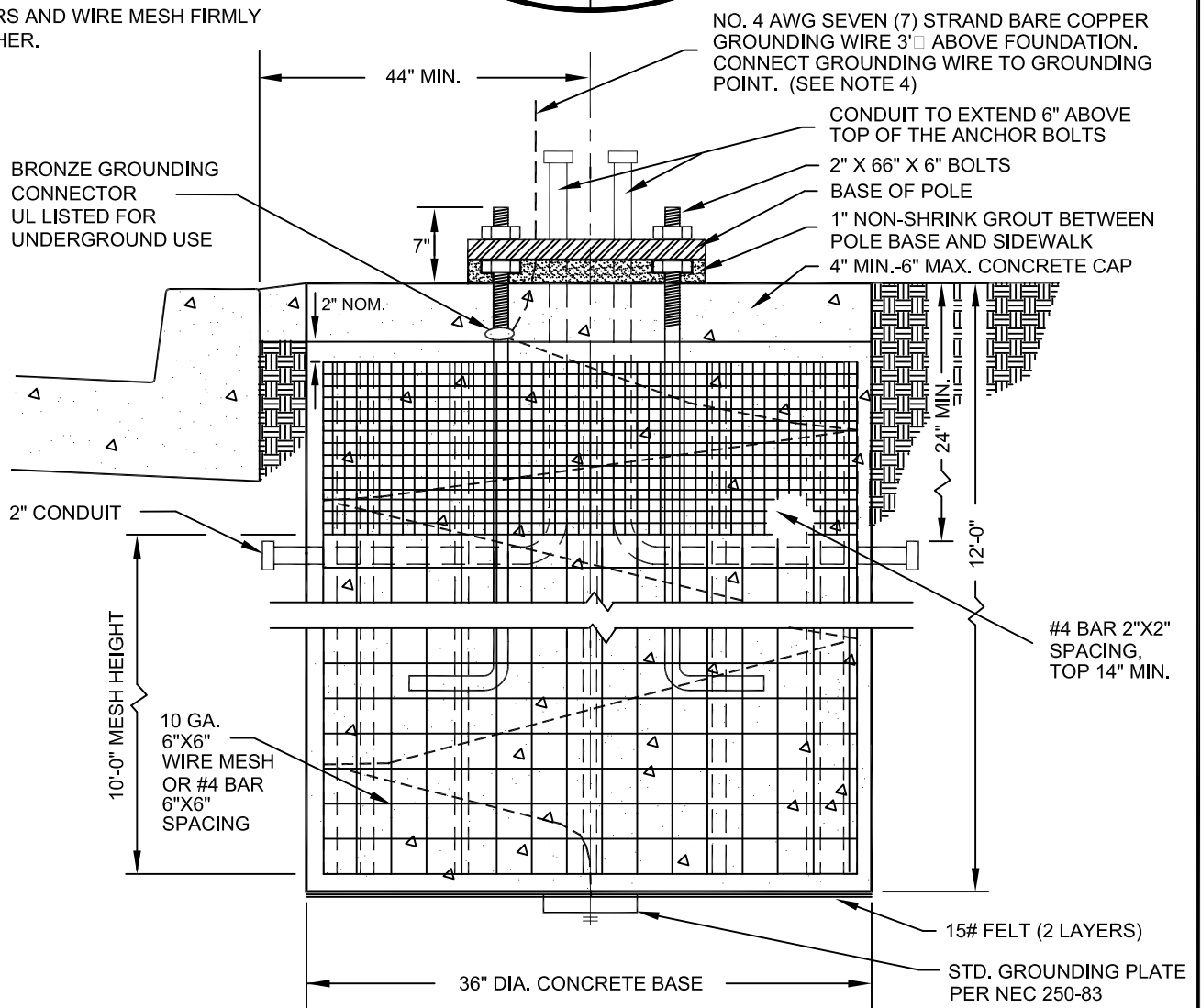
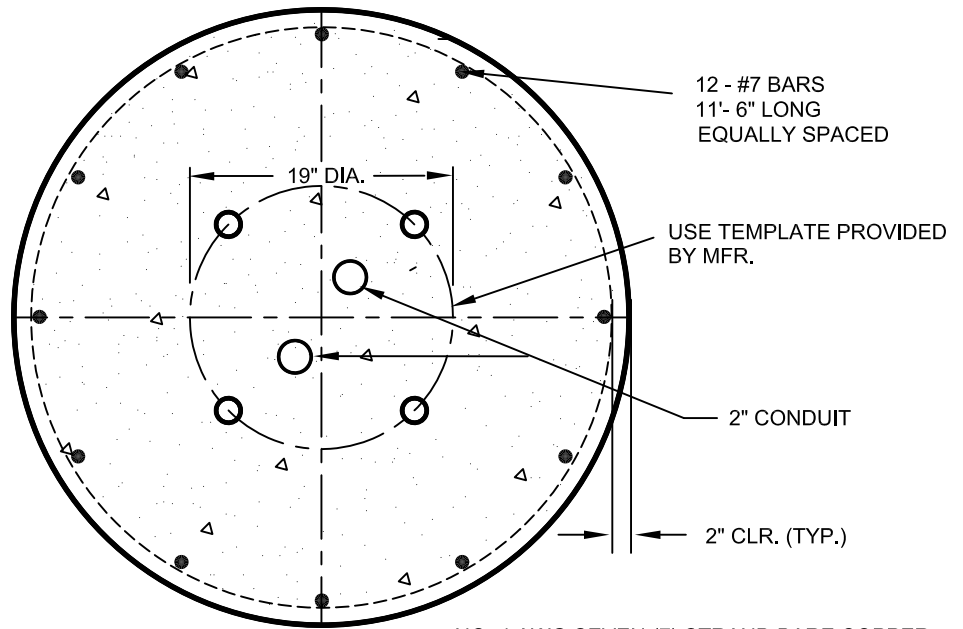
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

623G.03.06 FOUNDATION

TYPE "H" FOUNDATION

**NOTES:**

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.



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

CONDUIT TO EXTEND 6" ABOVE TOP OF THE ANCHOR BOLTS

2" X 66" X 6" BOLTS

BASE OF POLE

1" NON-SHRINK GROUT BETWEEN POLE BASE AND SIDEWALK

4" MIN.-6" MAX. CONCRETE CAP

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

10'-0" MESH HEIGHT  
10 GA. 6"X6" WIRE MESH OR #4 BAR 6"X6" SPACING

2" CONDUIT

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE

36" DIA. CONCRETE BASE

15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

SPECIFICATION REFERENCE

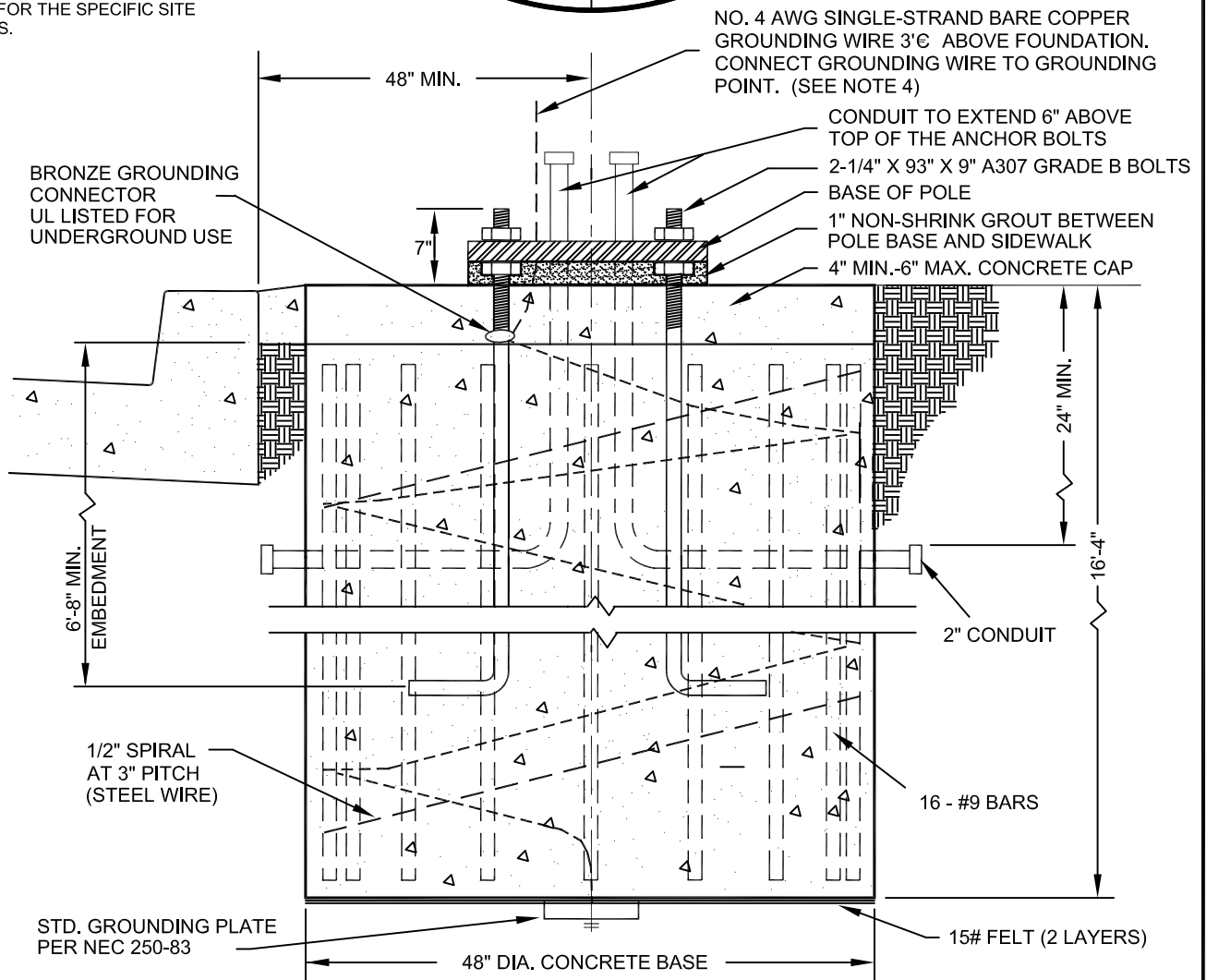
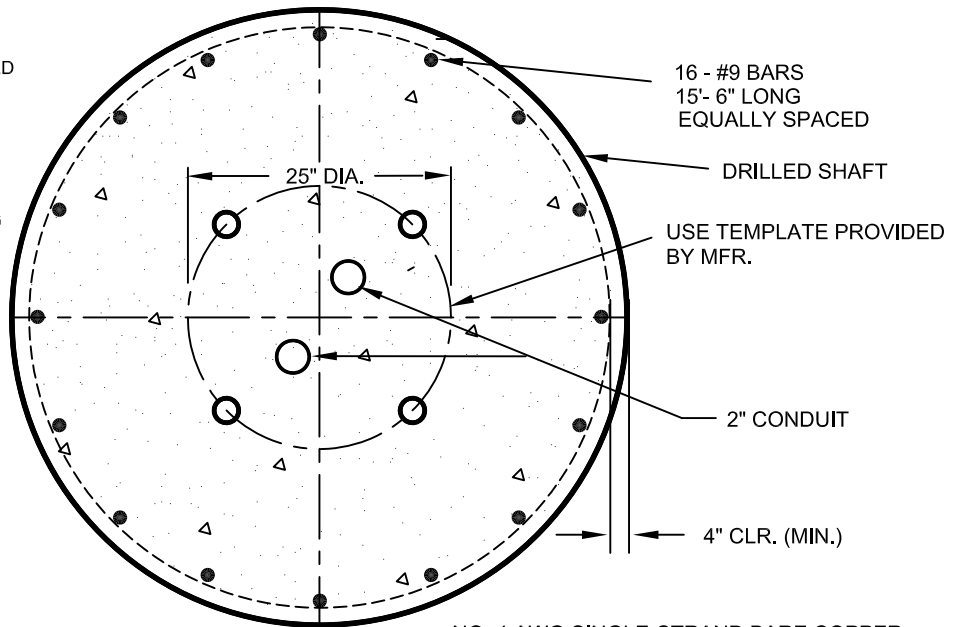
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

623G.03.06 FOUNDATION

TYPE "L" FOUNDATION

**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'± 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

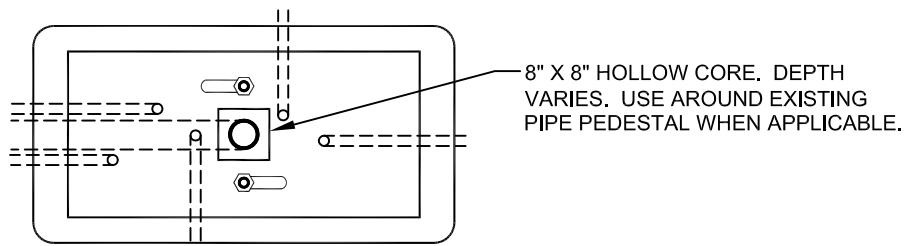
FOR TYPE XX-B SIGNAL AND LUMINAIRE POLES, SEE STANDARD DRAWING NOS. 404.406, 404.407 AND 404.409.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

623G.03.06 FOUNDATION

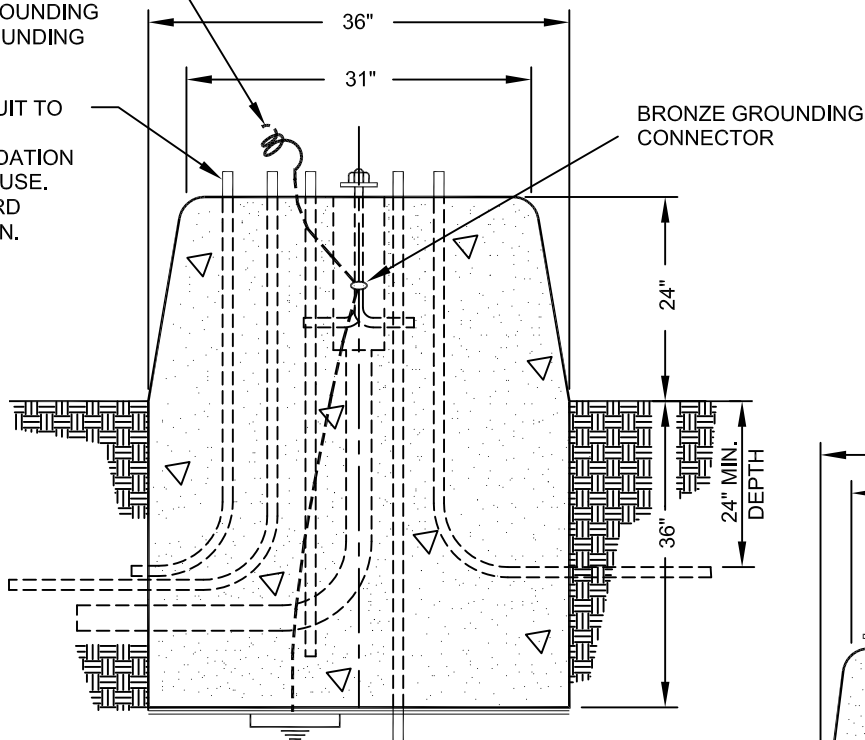
TYPE "M" FOUNDATION



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

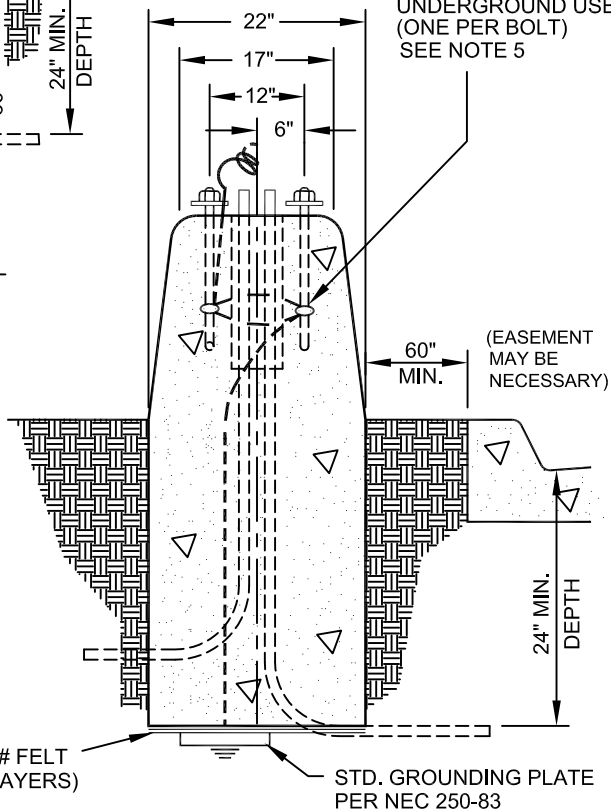
6' OF #4 AWG SEVEN (7) STRAND BARE COPPER GROUNDING WIRE ABOVE FOUNDATION CONNECT GROUNDING WIRE TO GROUNDING POINT.

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



BRONZE GROUNDING CONNECTOR

BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE (ONE PER BOLT) SEE NOTE 5



60" MIN. (EASEMENT MAY BE NECESSARY)

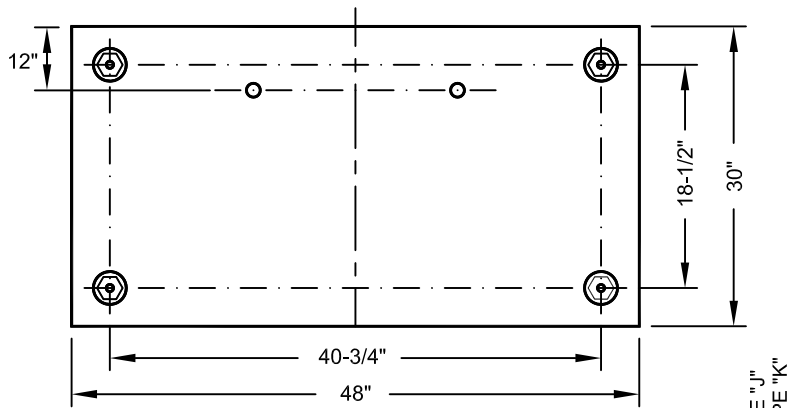
**NOTES:**

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

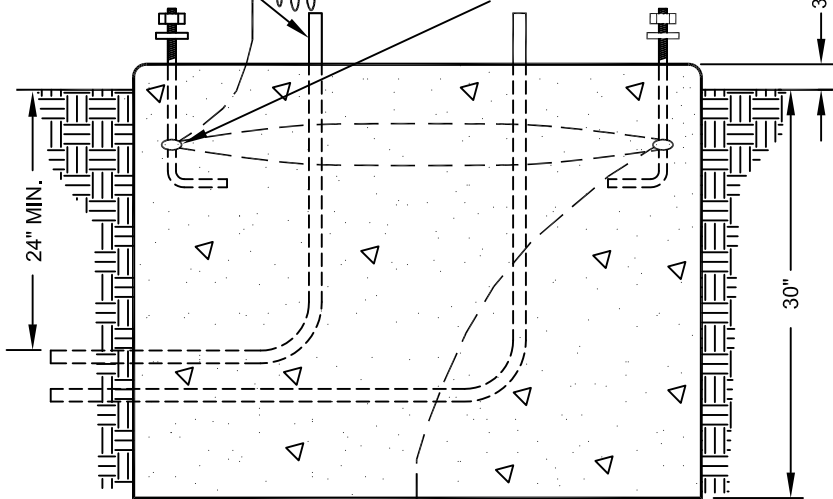
TYPE "I" FOUNDATION



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

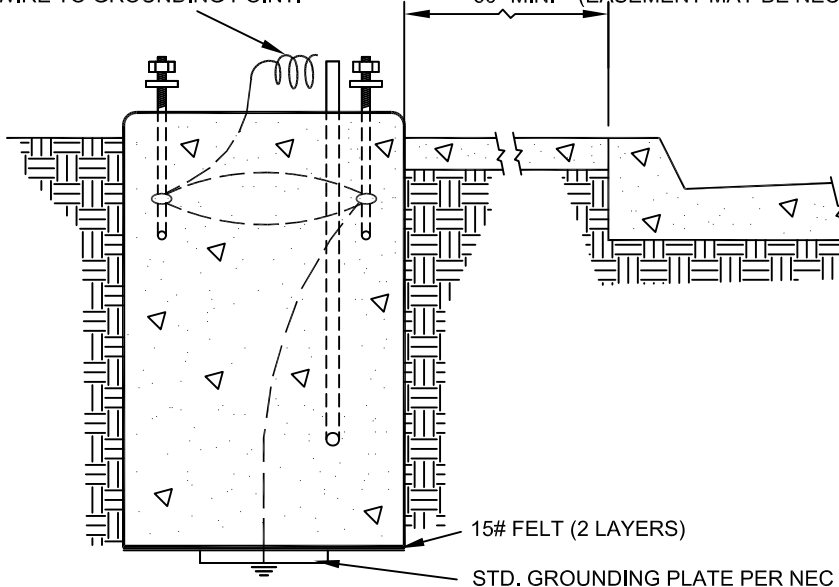
BRONZE GROUNDING CONNECTOR UL LISTED FOR UNDERGROUND USE (ONE PER BOLT) SEE NOTE 6

3" MIN. TYPE "J"  
18" MIN. TYPE "K"



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

60" MIN. (EASEMENT MAY BE NECESSARY)



15# FELT (2 LAYERS)

STD. GROUNDING PLATE PER NEC 250-83

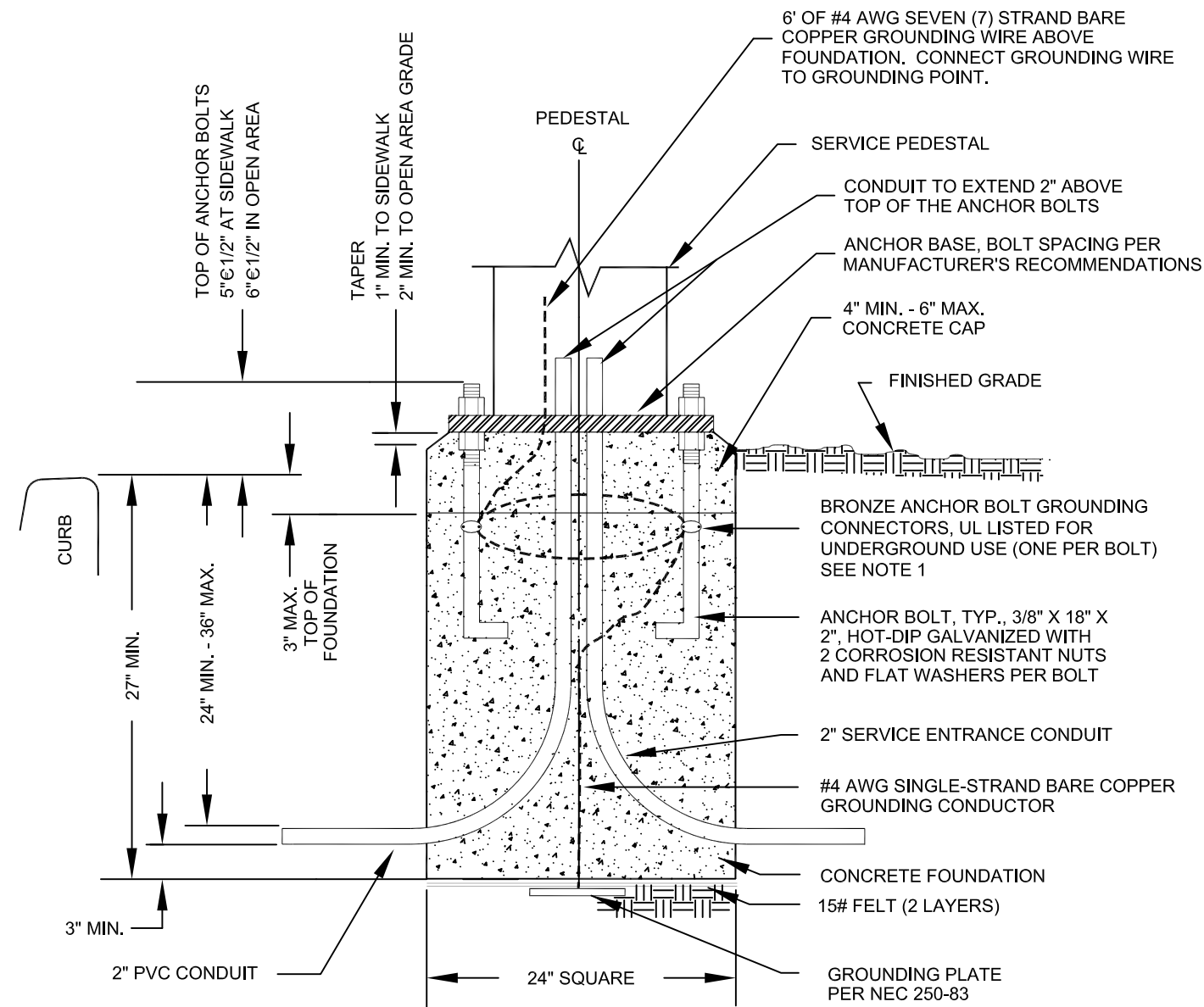
**NOTES:**

1. FOR CONDUIT SIZE, LOCATION, AND QUANTITY SEE PLANS.
2. 3/4" X 18" X 3" HOT-DIP GALVANIZED ANCHOR BOLTS. LOCATE WITH TEMPLATE.
3. ANCHOR BOLT PROJECTION ABOVE FOUNDATION SHALL BE 3-1/2" MIN., 4-1/2" MAX.
4. CONDUIT PROJECTION ABOVE FOUNDATION SHALL BE 2" MIN., 4" MAX.
5. LOCATION OF FOUNDATION MUST BE APPROVED BY ENGINEER IN FIELD.
6. CONTINUOUS BARE COPPER GROUNDING WIRE SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE "J" & "K" FOUNDATIONS



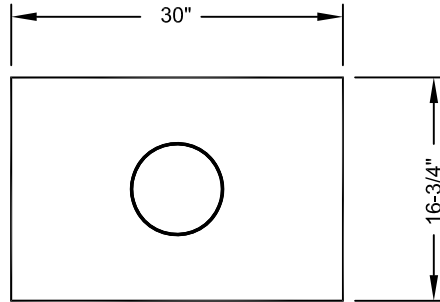
**NOTES:**

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.

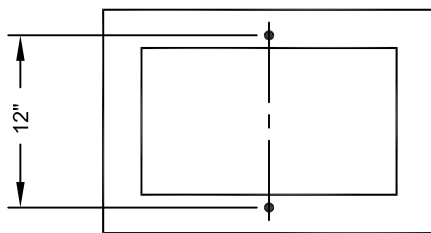
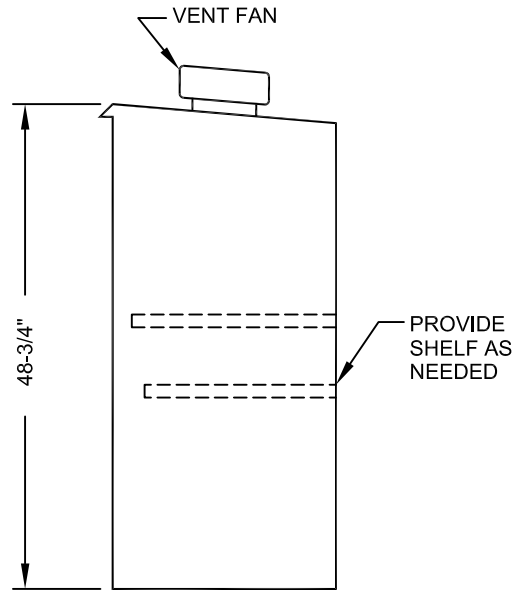
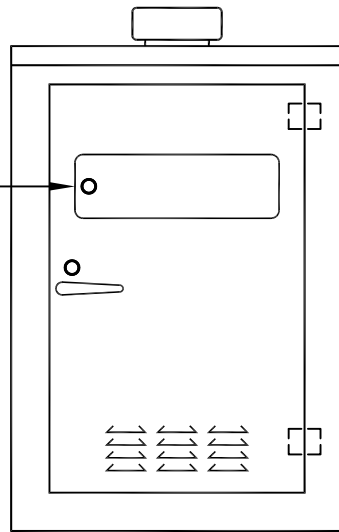
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
501	PORTLAND CEMENT CONCRETE	SERVICE PEDESTAL FOUNDATION					
623	TRAFFIC SIGNALS & STREETLIGHTING						
		DATE	9-14-00	DWG. NO.	404.214	SHEET	1 OF 1

MOTOR: 1/125 HP-  
3000 RPM NEMA CLASS  
B INS. 0.65 AMPS AT  
115 VAC.



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

POLICE  
PANEL



PLAN AT BASE

"M" CABINET

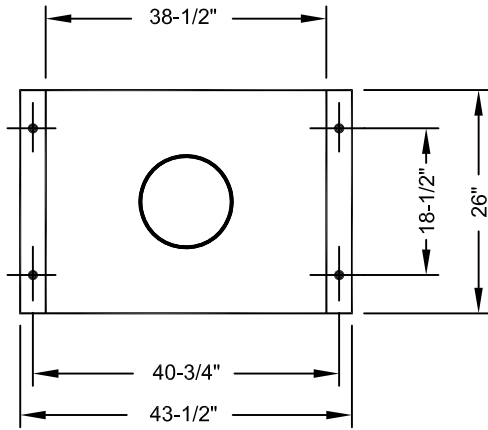
NOTES:

1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. 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.

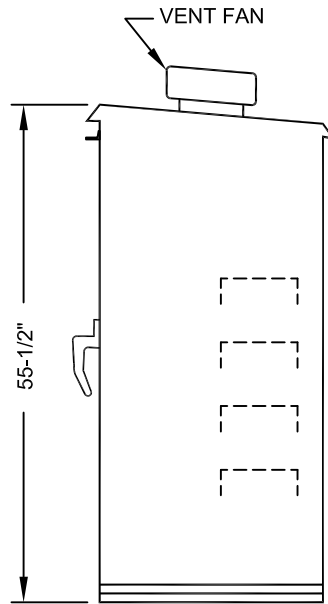
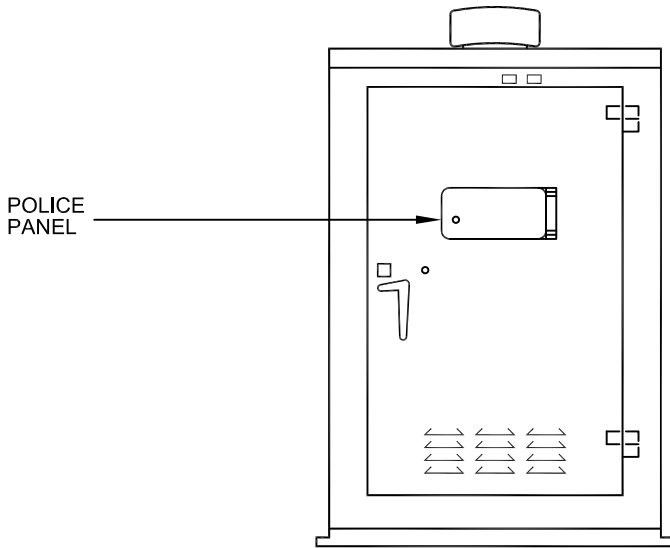
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE V  
CABINET



VENT FAN SPECIFICATION:  
SEE STANDARD DRAWING  
NO. 404.304



"P" CABINET

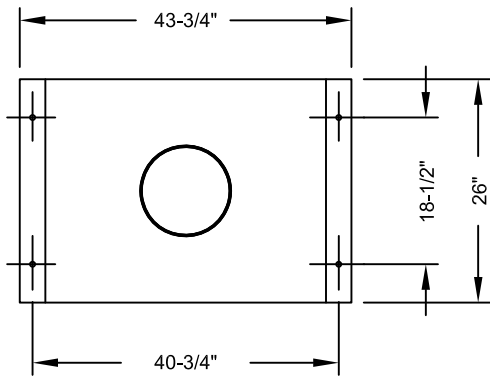
NOTES:

1. MATERIAL - 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. 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.

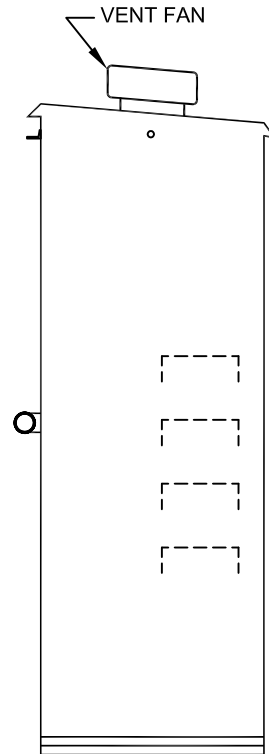
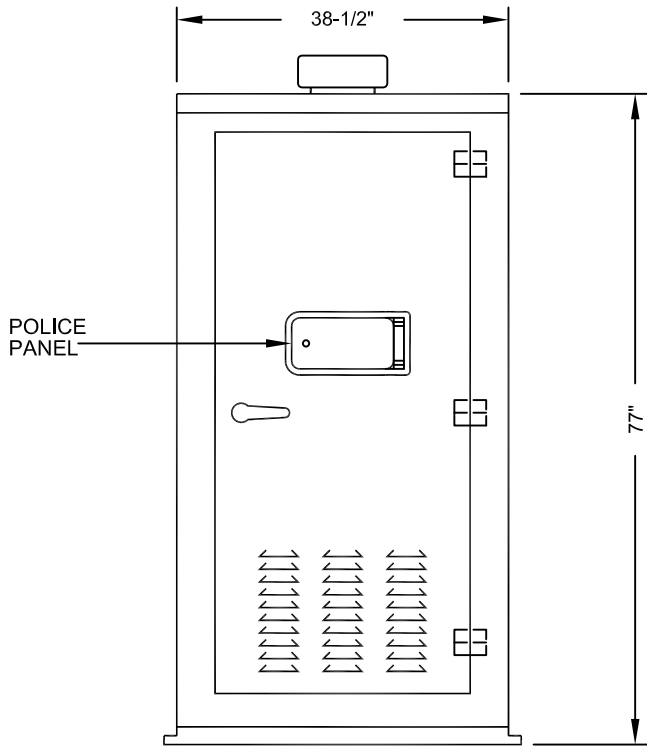
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE VI  
CABINET



VENT FAN SPECIFICATION:  
SEE STANDARD DRAWING  
NO. 404.304



"R" CABINET

NOTES:

1. MATERIAL = 14 GA. SHEET STEEL, OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE TWO COATS WHITE ENAMEL OR AS APPROPRIATE.
3. 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.

SPECIFICATION REFERENCE

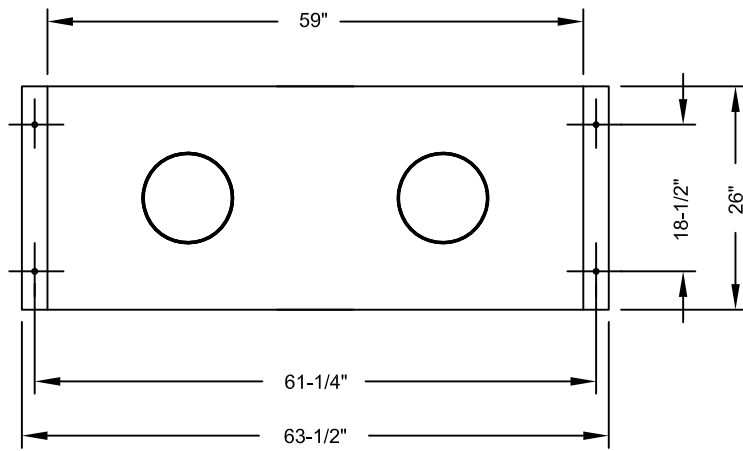
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE VIII  
CABINET

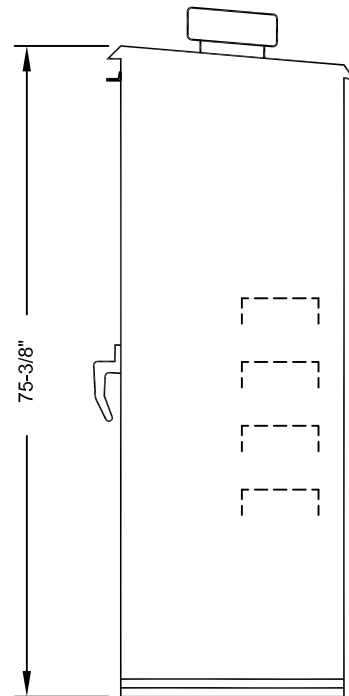
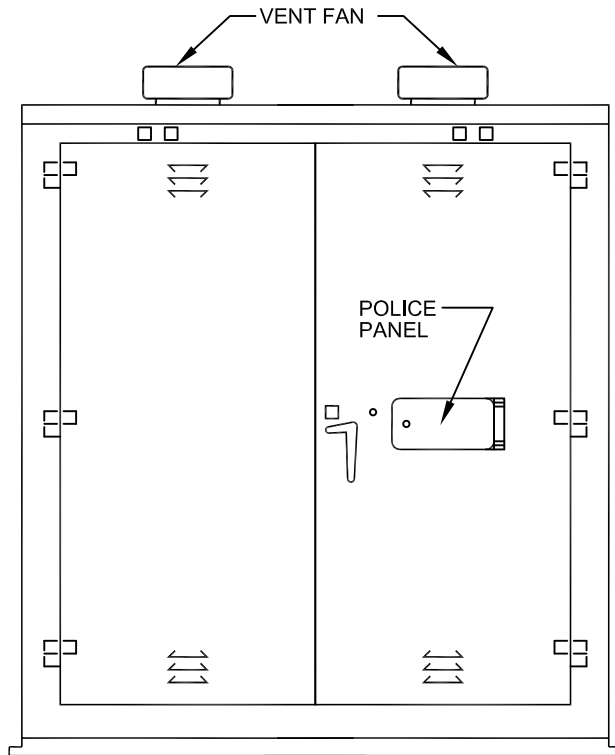
DATE 12-12-96

DWG. NO. 404.307

SHEET 1 OF 1



VENT FAN SPECIFICATION:  
SEE STANDARD DRAWING  
NO. 404.304



"RR" CABINET

NOTES:

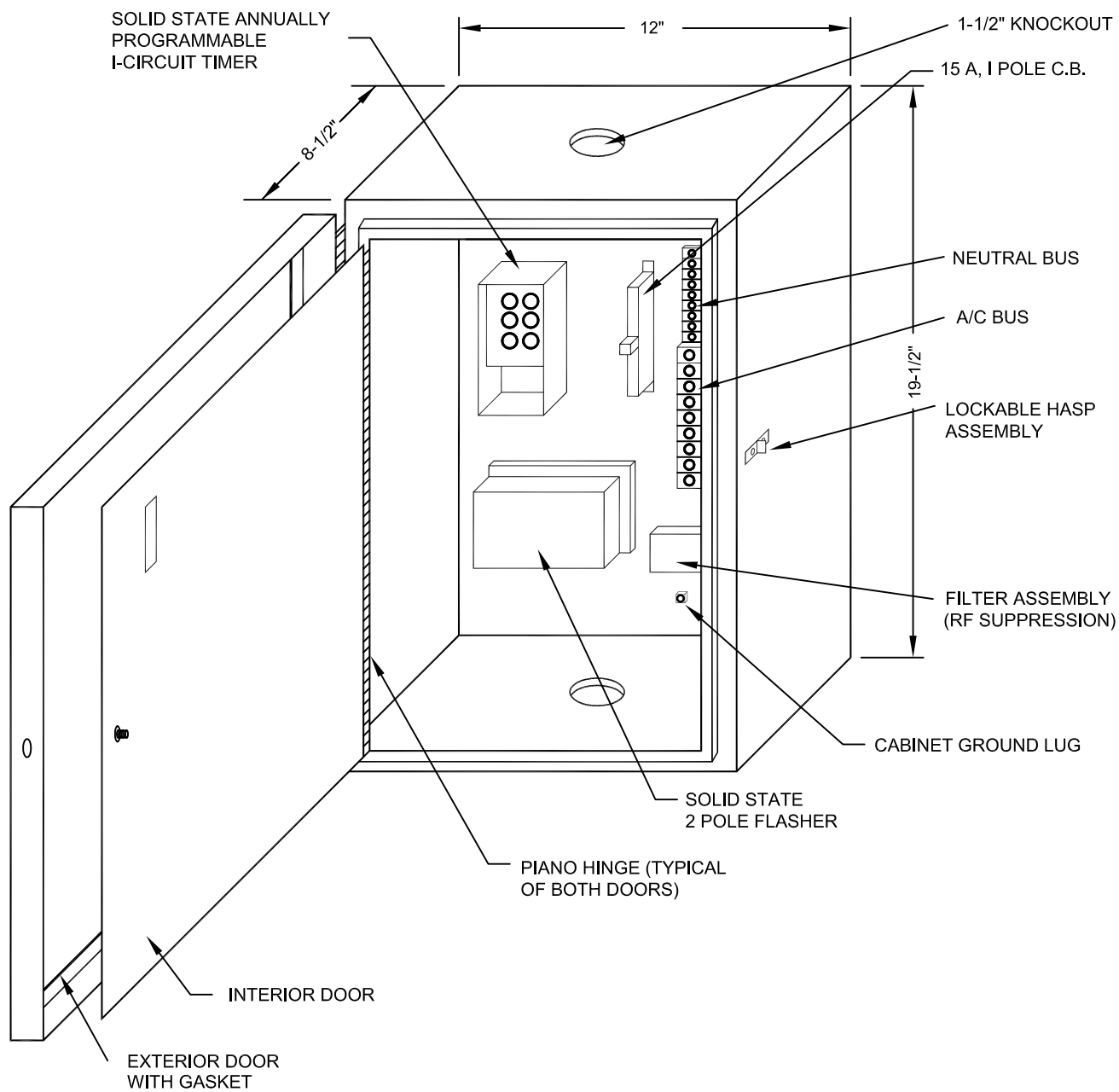
1. MATERIAL - 14 GA. SHEET STEEL,  
OR ALUMINUM EQUIVALENT.
2. PAINT OUTSIDE TWO COATS AND INSIDE  
TWO COATS WHITE ENAMEL OR AS  
APPROPRIATE.
3. FOUNDATION DETAILS SHALL BE SPECIFIED  
ON THE SIGNAL CONSTRUCTION PLANS.
4. INCLUDE 3/4" x 18" x 3" HOT-DIP GALVANIZED  
ANCHOR BOLTS WITH EACH CABINET.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE IX  
CABINET

# FLASHING BEACON CONTROLLER CABINET



**NOTES:**

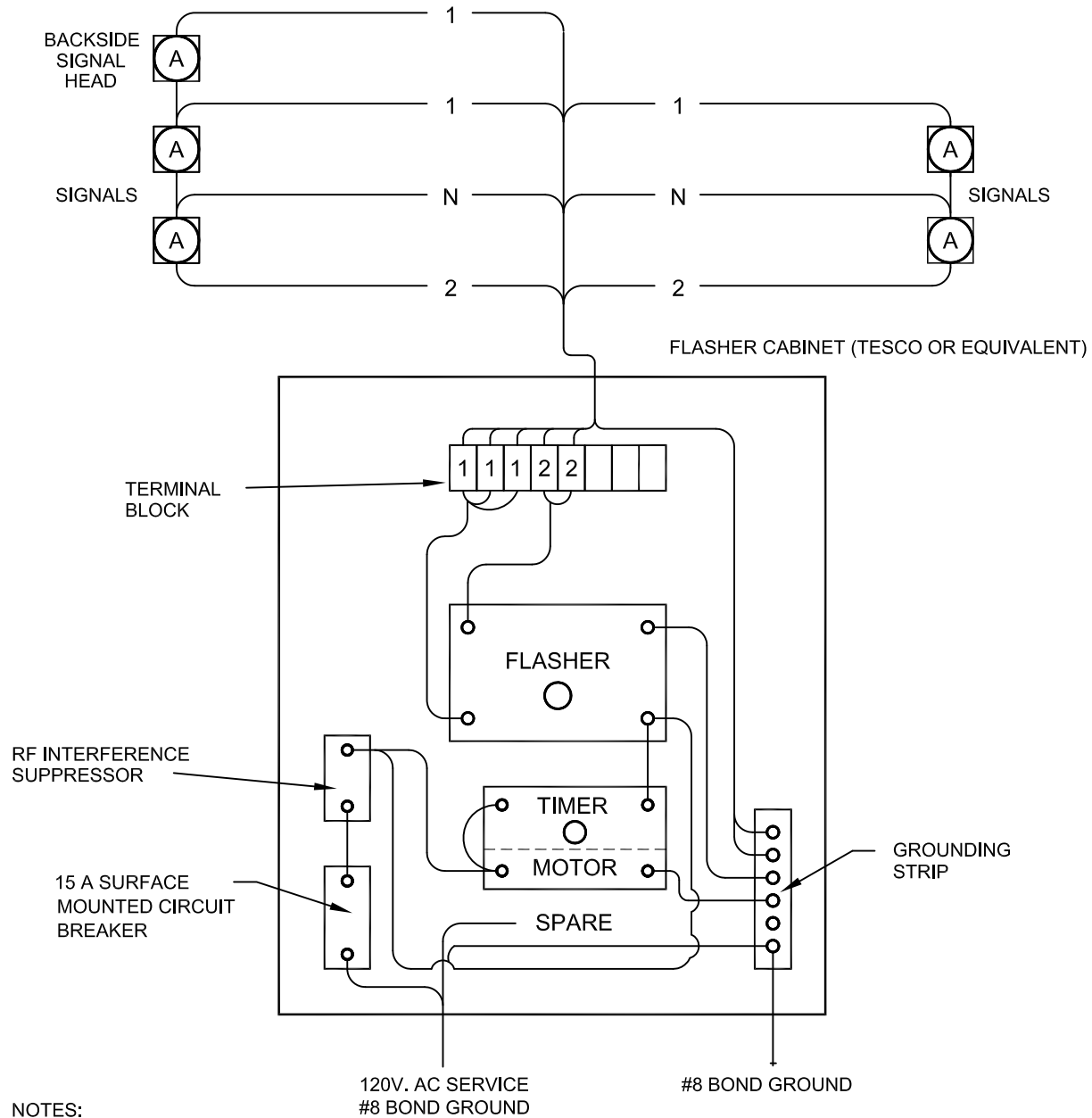
1. CONSTRUCT FROM MINIMUM 12-GUAGE STEEL.
2. THE TIMER SHALL BE RTC-AP21 OR EQUIVALENT.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

FLASHING BEACON  
CONTROLLER CABINET

## WIRING DIAGRAM FOR FLASHING BEACON TIMER CONTROLLED OPERATION



**NOTES:**

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

\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
	WIRING DIAGRAM FOR FLASHING BEACON TIMER CONTROLLED OPERATION			
	DATE 12-12-96	DWG. NO. 404.310	SHEET	1 OF 1

LUMINAIRE PIPE TENON AS REQUIRED

THIS ARM DESIGN FOR 35' MTG. HEIGHT ONLY

15' ARM LENGTH

11 GA. ROUND TAPERED ARM

REMOVABLE 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)

90° OR 95° AS PER SPECIFICATION

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

BACK VIEW OF SIGN

17' MIN.

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

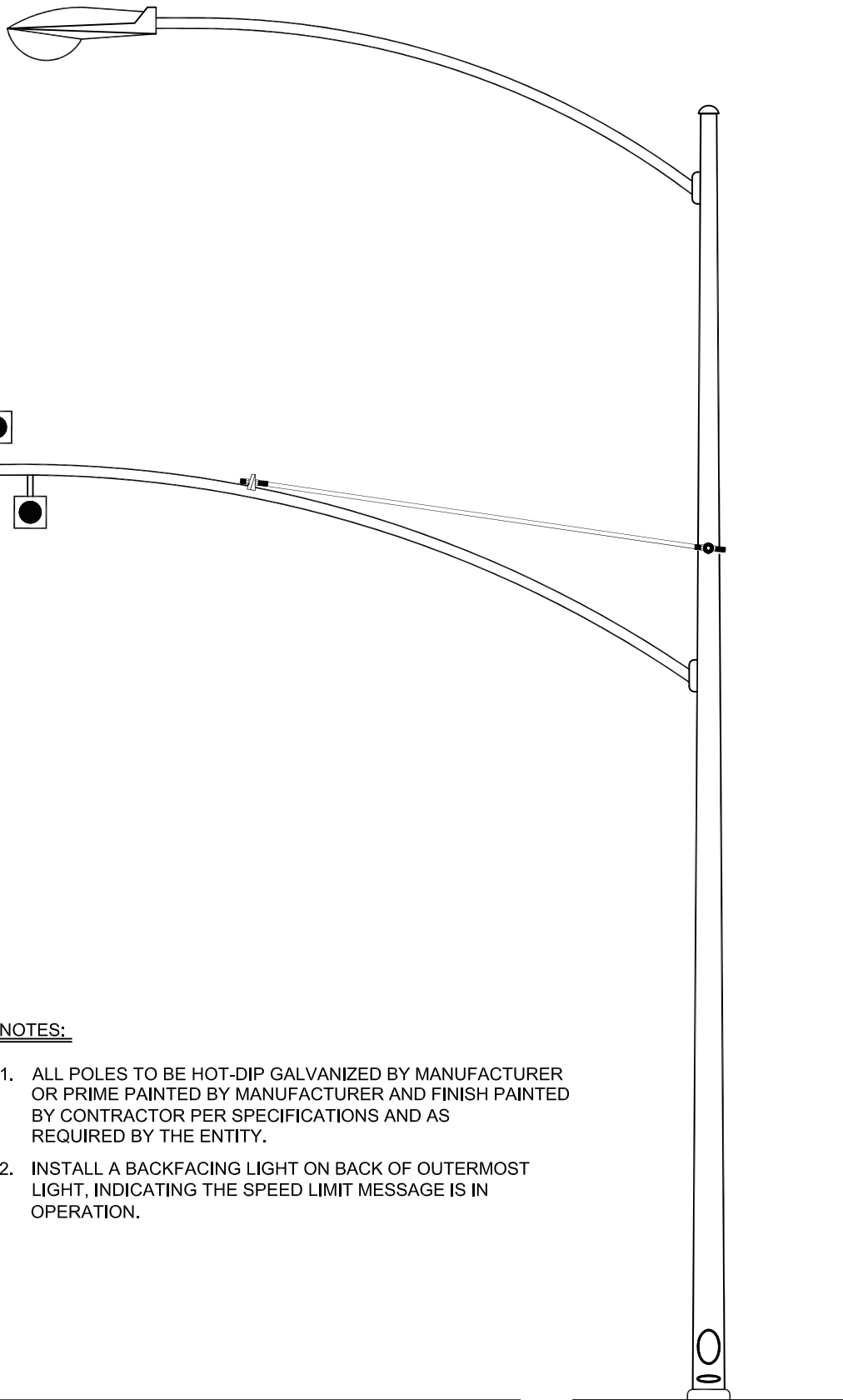
18'-6"

3 GA., 30" ROUND TAPERED STEEL SHAFT

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SCHOOL FLASHING SIGN ON  
POLE WITH LUMINAIRE



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.

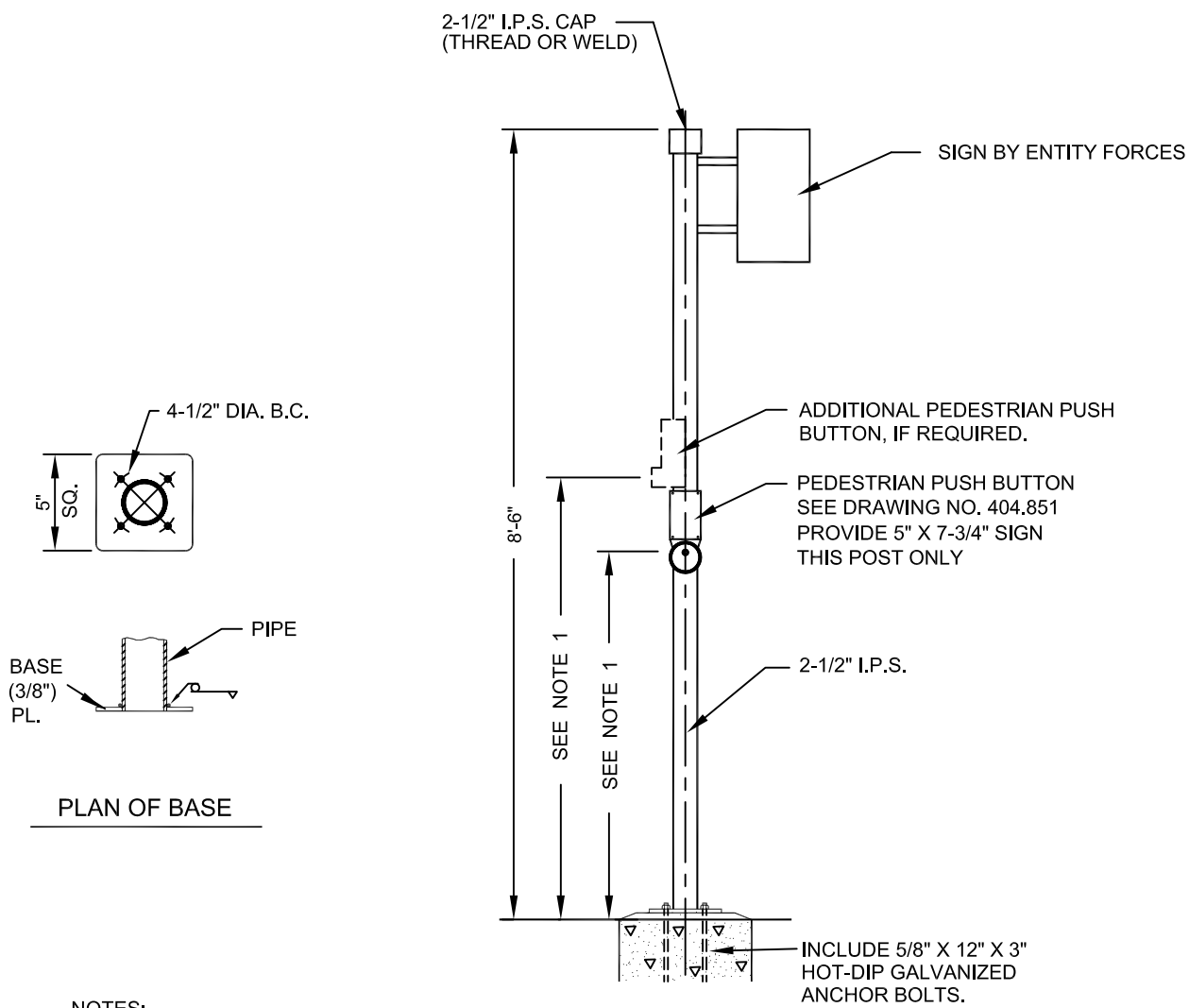
17' MIN.

SEE NOTE 4

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SCHOOL FLASHING SIGN ON  
TYPE-III POLE



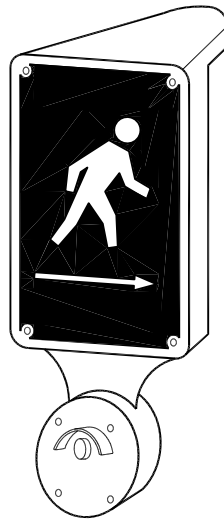
**NOTES:**

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.

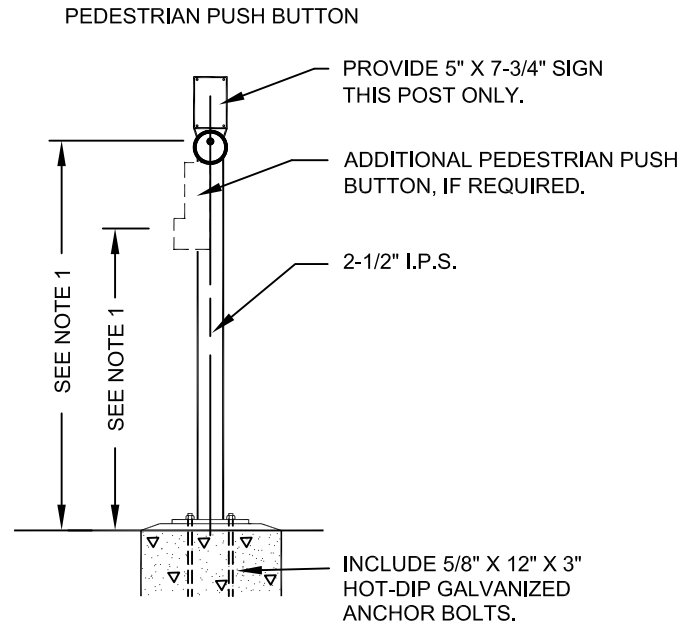
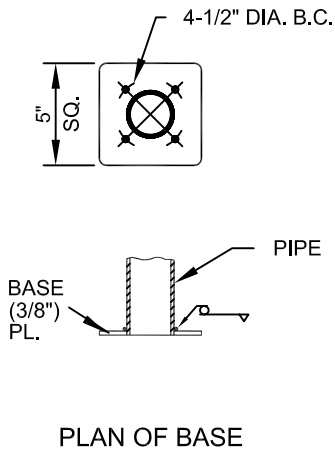
FOR TYPE "A" FOUNDATION SEE DRAWING NO. 404.201

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		PEDESTRIAN PUSH BUTTON POST FOR SPECIAL SIGN (8'-6" HIGH)	
DATE	12-12-96	DWG. NO.	404.401
SHEET			1 OF 2

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



PEDESTRIAN PUSHBUTTON  
FOR 2 1/2" POSTTOP MOUNTING

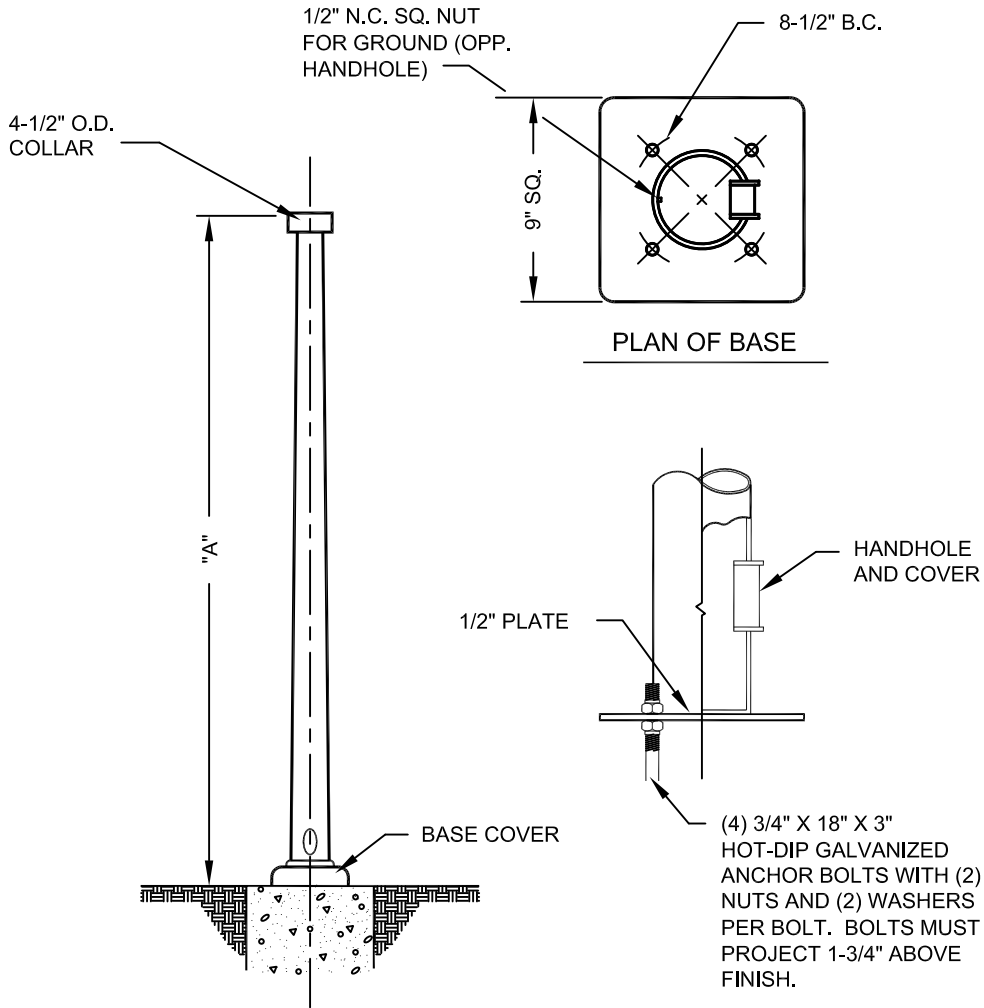


**NOTES:**

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

SPECIFICATION REFERENCE		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



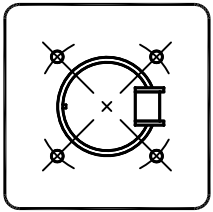
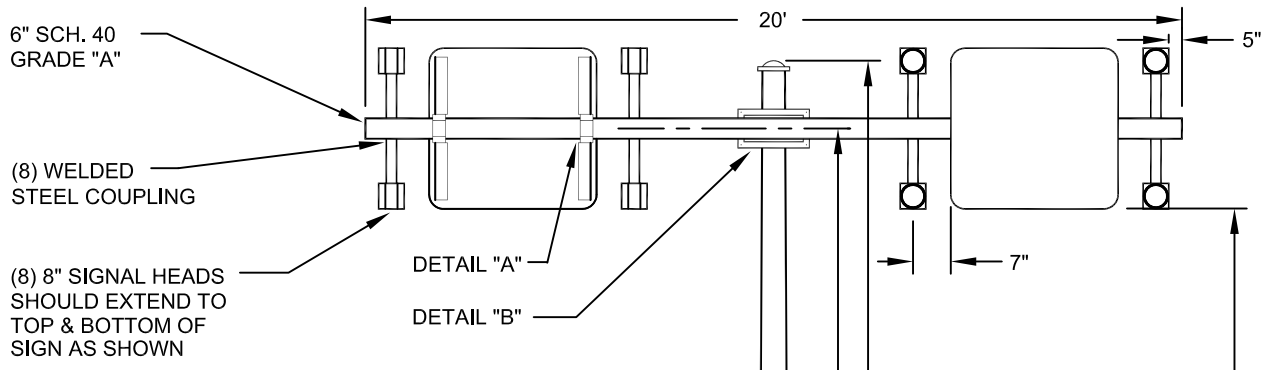
POLE TYPE	"A" NOM.	SHAFT SIZE	
1-A	10'-0"	11 GA. 5.5" X 4.1" X 10'-0"	NEAR RIGHTS & ISL. POLES
1-B	7'-0"	11 GA. 5.5" X 4.1" X 7'-0"	PED. HEADS & BUTTON ONLY

**NOTES:**

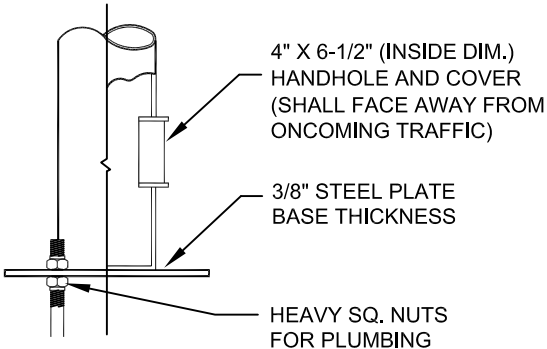
1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
2. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
3. PEDESTRIAN PUSH BUTTON SHALL NOT BE LOCATED MORE THAN 24" FROM 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.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		<b>SIGNAL STANDARD TYPE 1-A, 1-B</b>					
		DATE	12-12-96	DWG. NO.	404.402	SHEET	1 OF 1

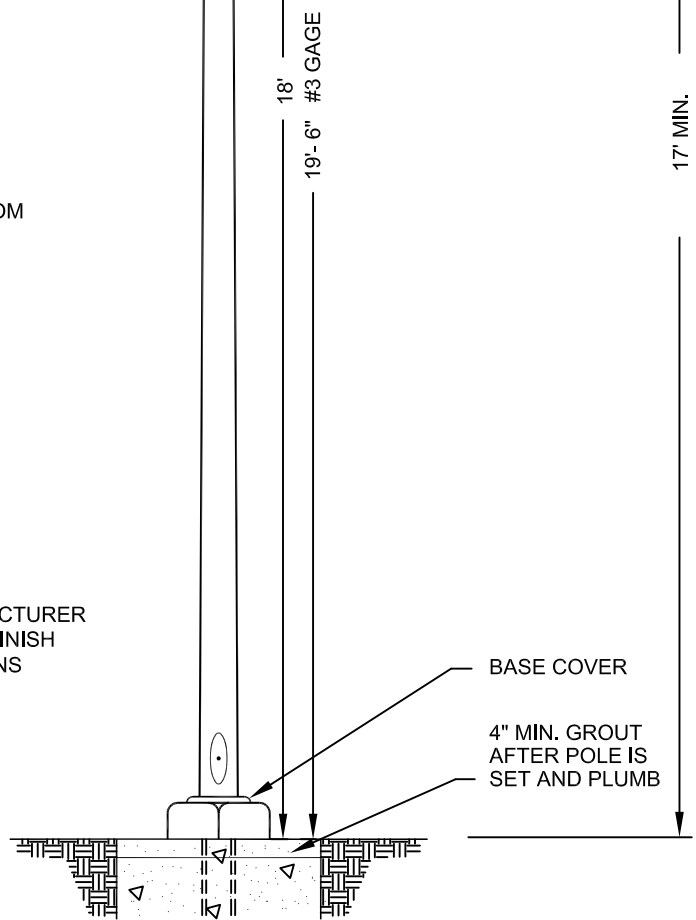


PLAN OF BASE



**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.



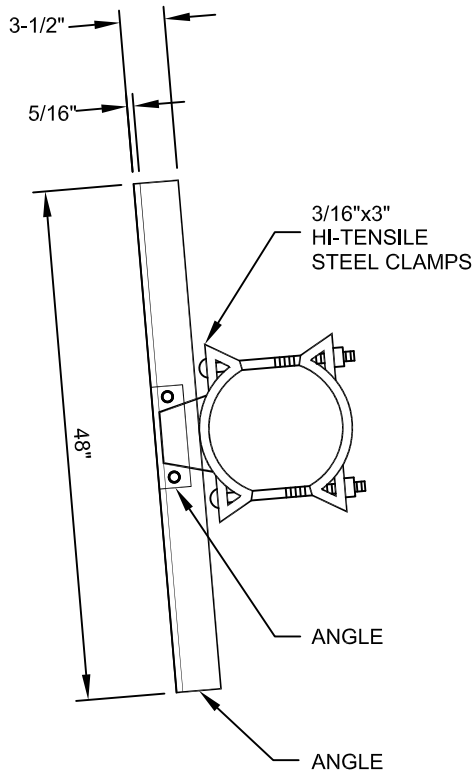
FOR TYPE "G" FOUNDATION SEE DRAWING NO. 404.207

SPECIFICATION REFERENCE

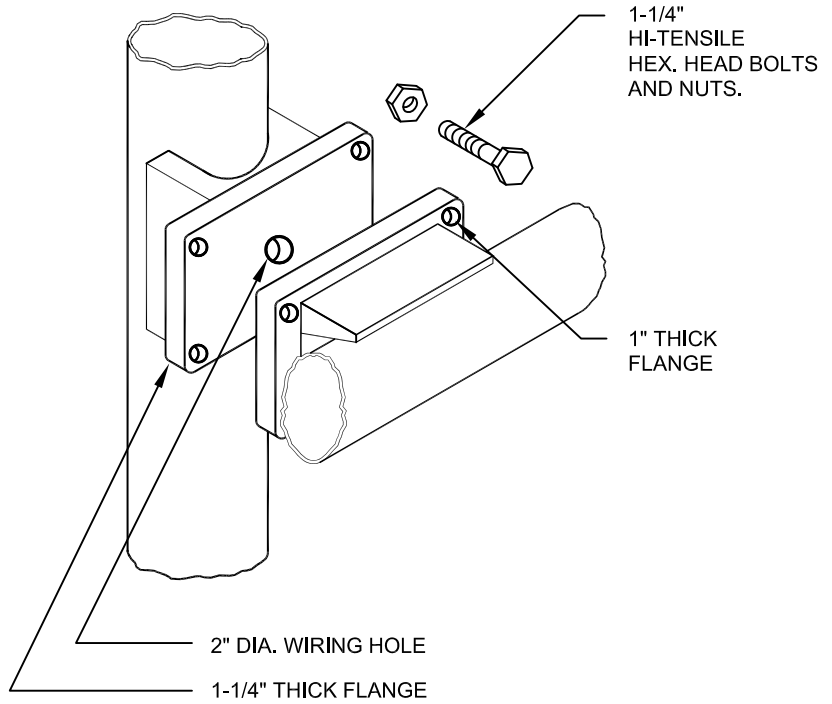
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGN POST WITH  
SCHOOL SIGN MOUNTED

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



DETAIL A



DETAIL B

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGN POST WITH  
SCHOOL SIGN MOUNTED  
DETAILS

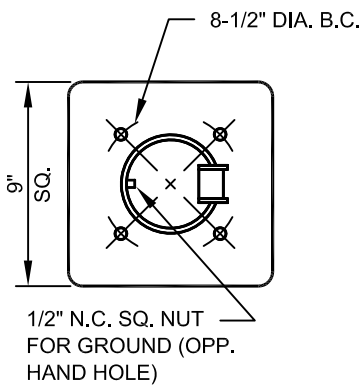
DATE

DWG. NO.

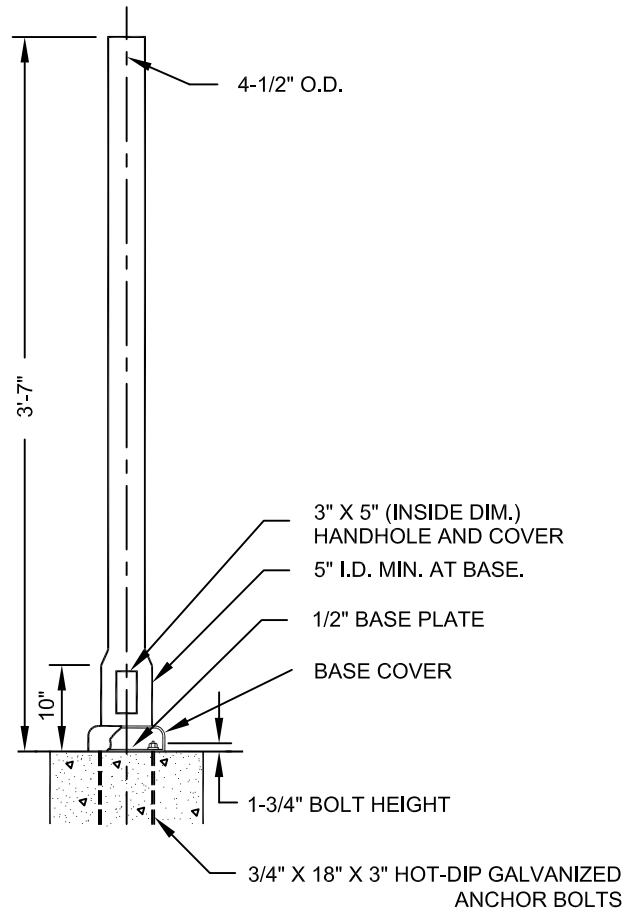
404.403

SHEET

2 OF 2



PLAN OF BASE



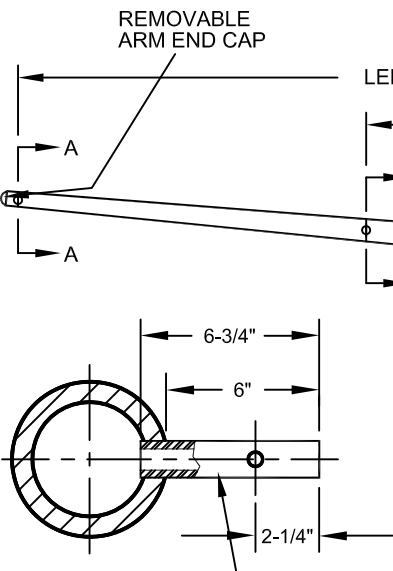
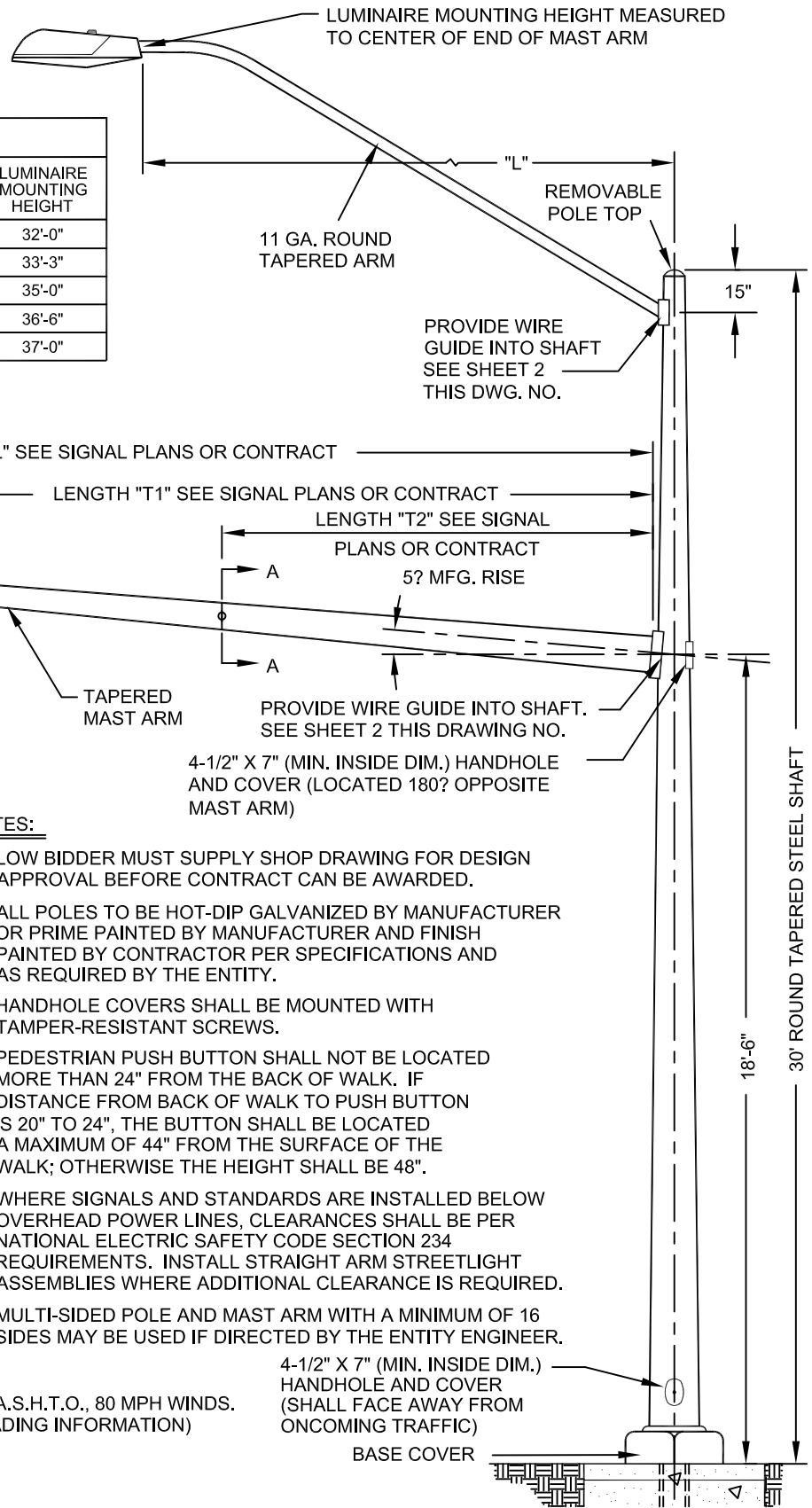
NOTES:

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

FOR TYPE "C" FOUNDATION SEE DRAWING NO. 404.203.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
		PEDESTAL FOR CONTROLLER CABINETS			
DATE	12-12-96	DWG. NO.	404.405	SHEET	1 OF 1

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
6	3.42	2.38	11	32'-0"
8	3.75	2.38	11	33'-3"
10	4.16	2.38	11	35'-0"
12	4.52	2.38	11	36'-6"
15	4.95	2.38	11	37'-0"



2" SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBIZER

DETAIL A-A

**NOTES:**

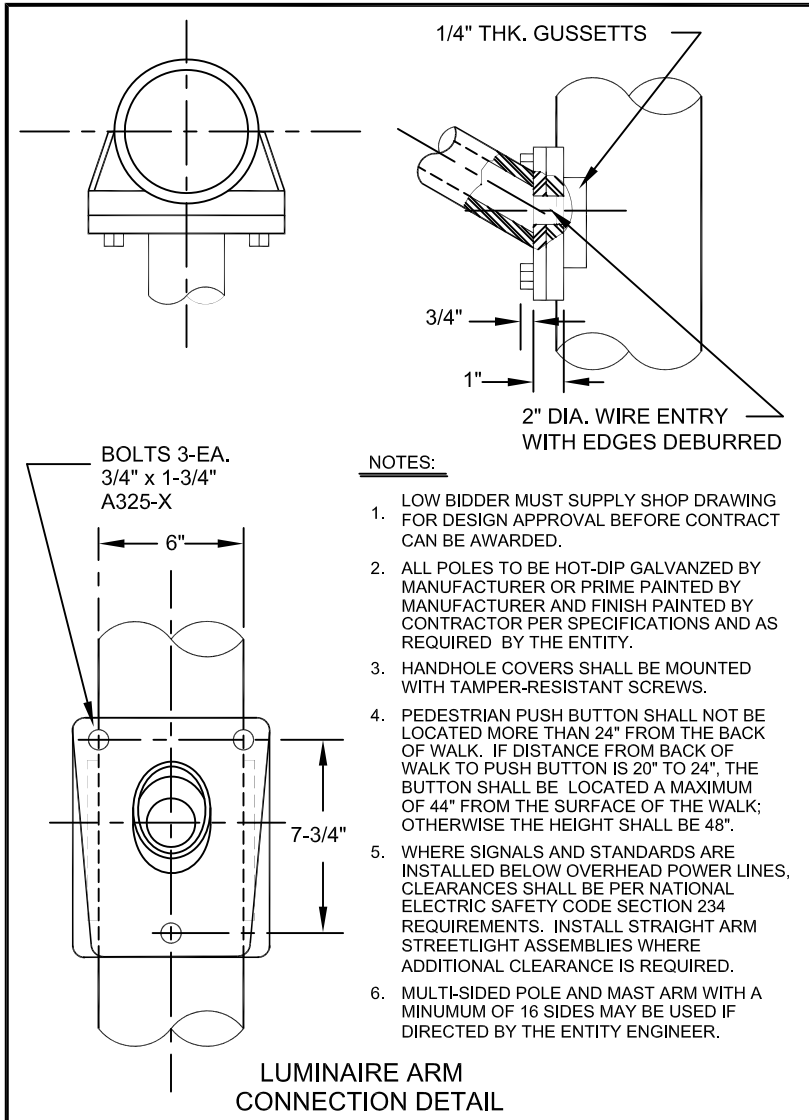
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. 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)

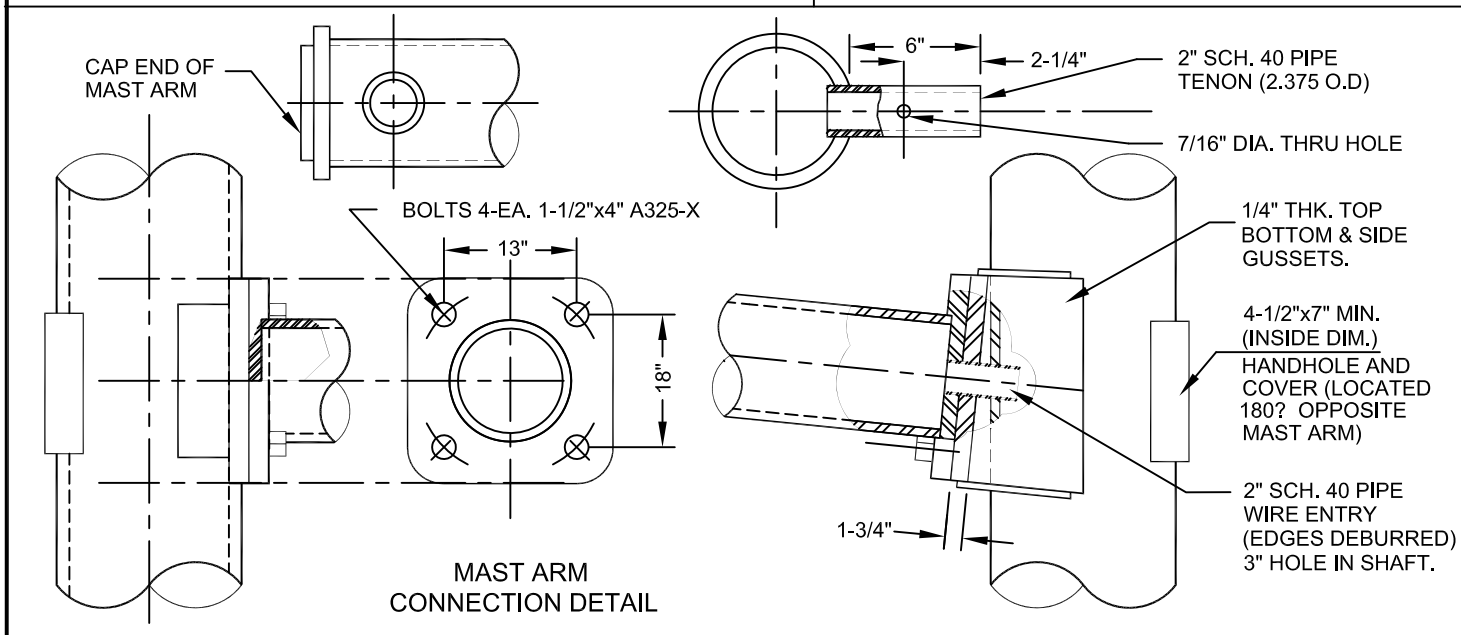
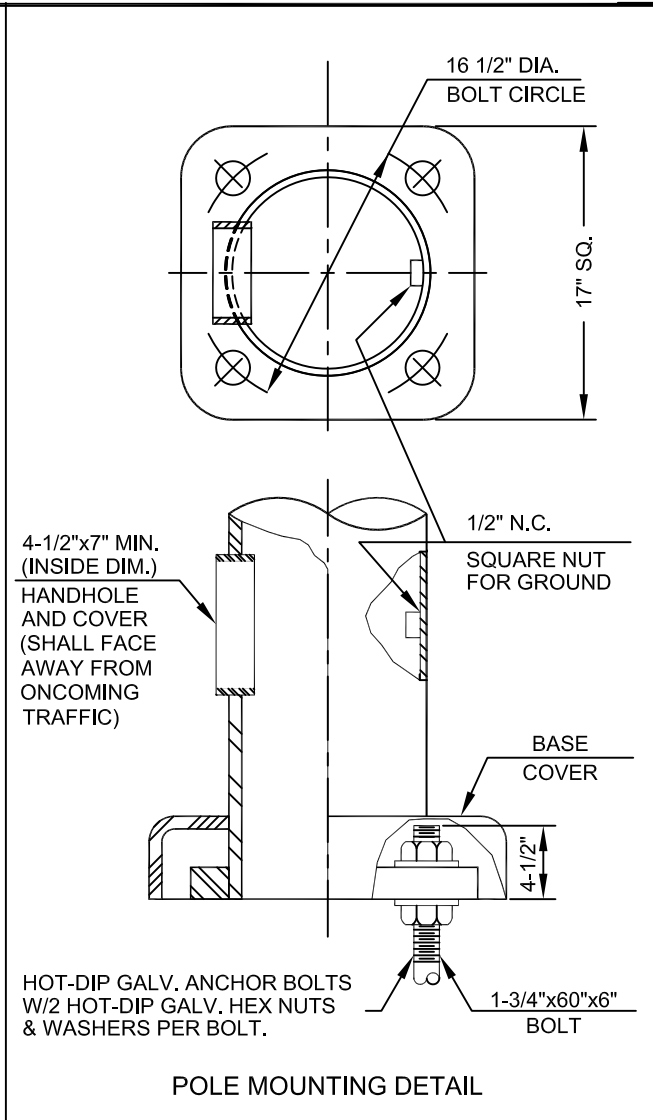
FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208

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

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
	TYPE XX-30'-0" SIGNAL & LUMINAIRE POLE (45' OR LESS MAST ARMS)
DATE 9-14-06	DWG. NO. 404.406 SHEET 1 OF 6



- 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.



**SPECIFICATION REFERENCE**

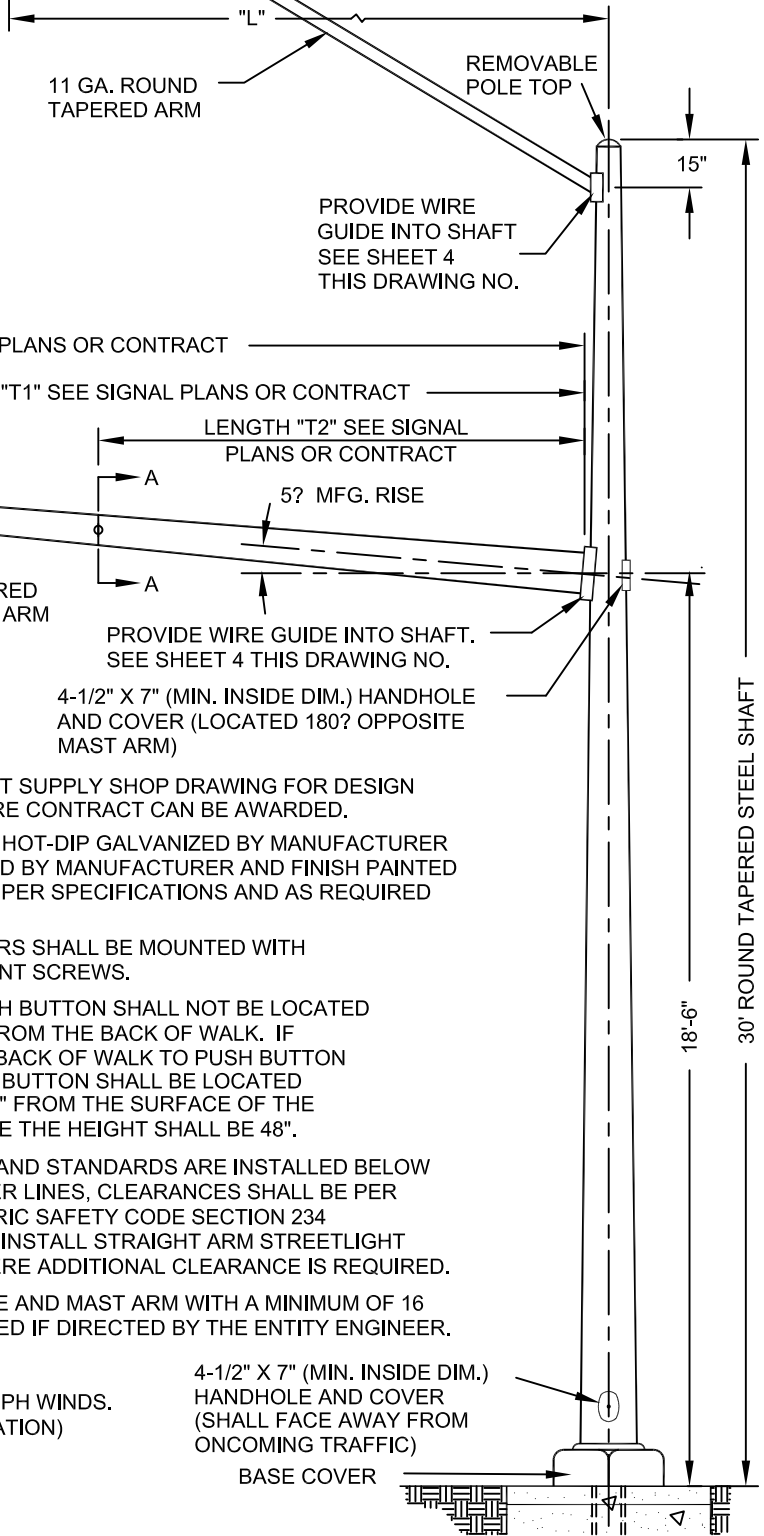

**UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA**

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

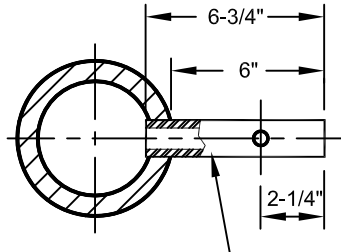
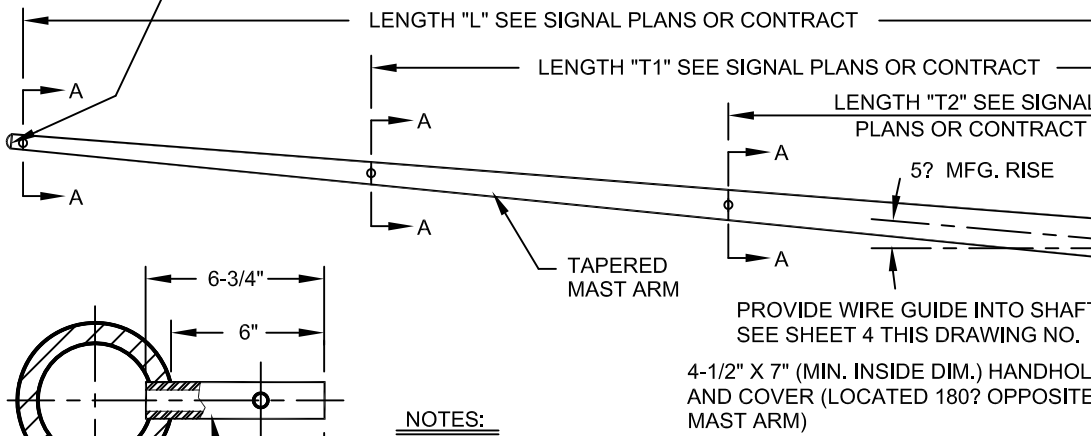
Effective 07/01/08 - 12/30/08

LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
6	3.42	2.38	11	32'-0"
8	3.75	2.38	11	33'-3"
10	4.16	2.38	11	35'-0"
12	4.52	2.38	11	36'-6"
15	4.95	2.38	11	37'-0"



REMOVABLE ARM END CAP



2" SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBIZER

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. 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

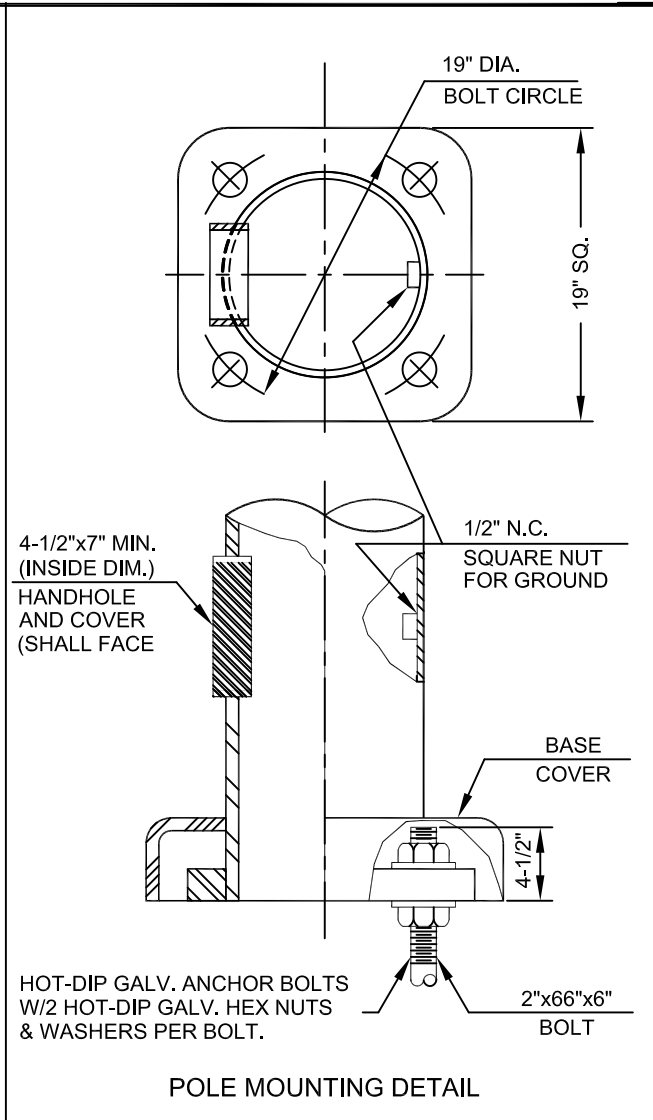
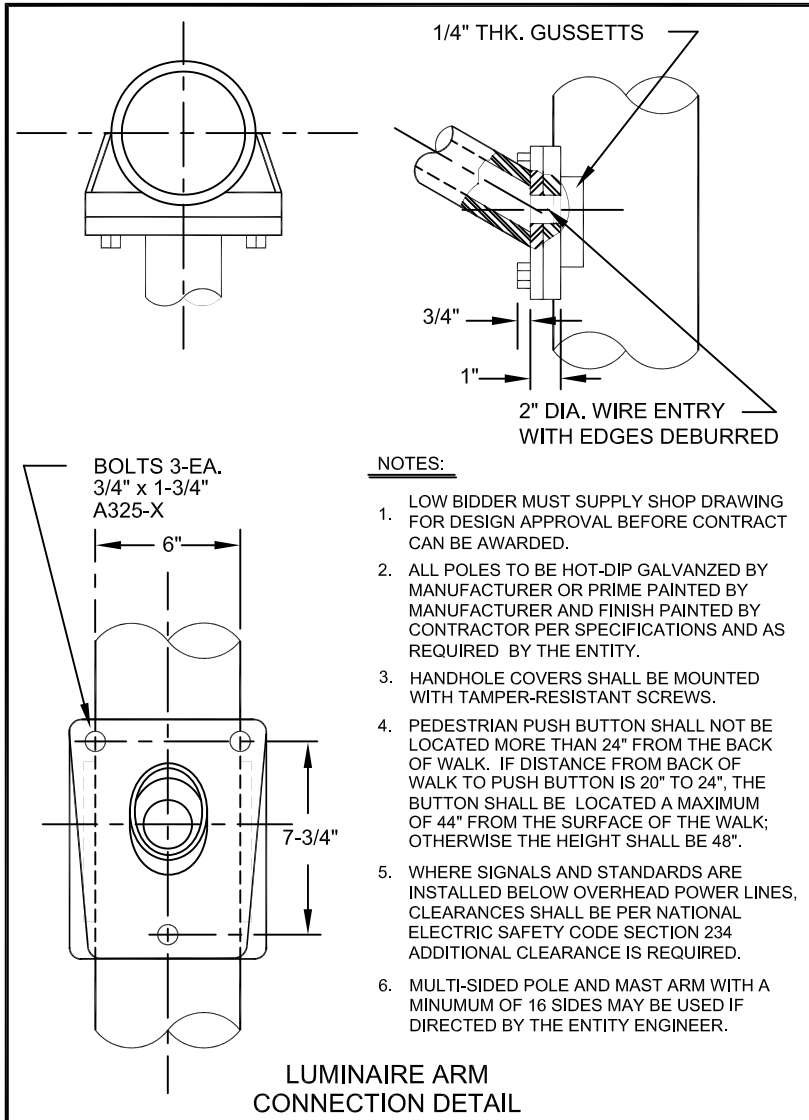
4-1/2" X 7" (MIN. INSIDE DIM.) HANDHOLE AND COVER (SHALL FACE AWAY FROM ONCOMING TRAFFIC)

BASE COVER

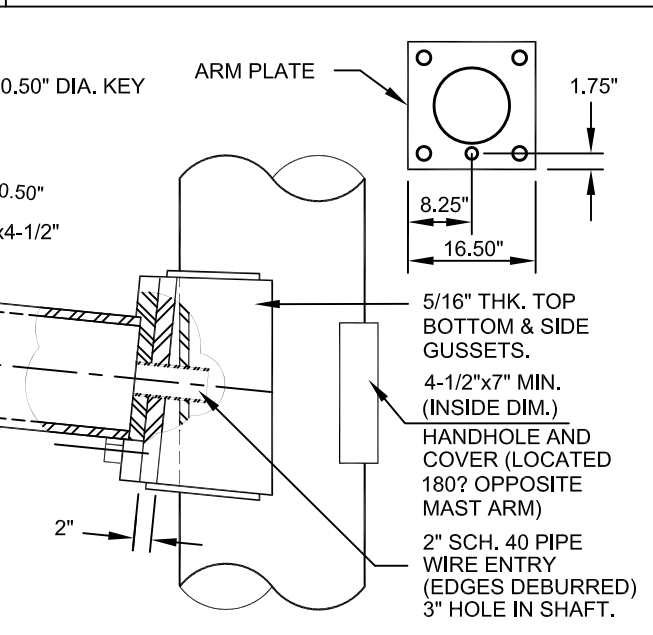
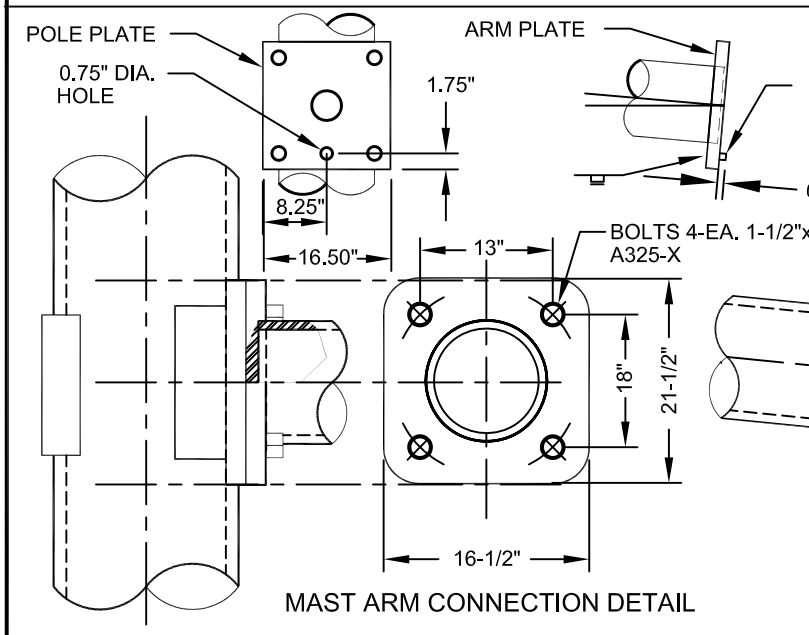
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

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



- 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.



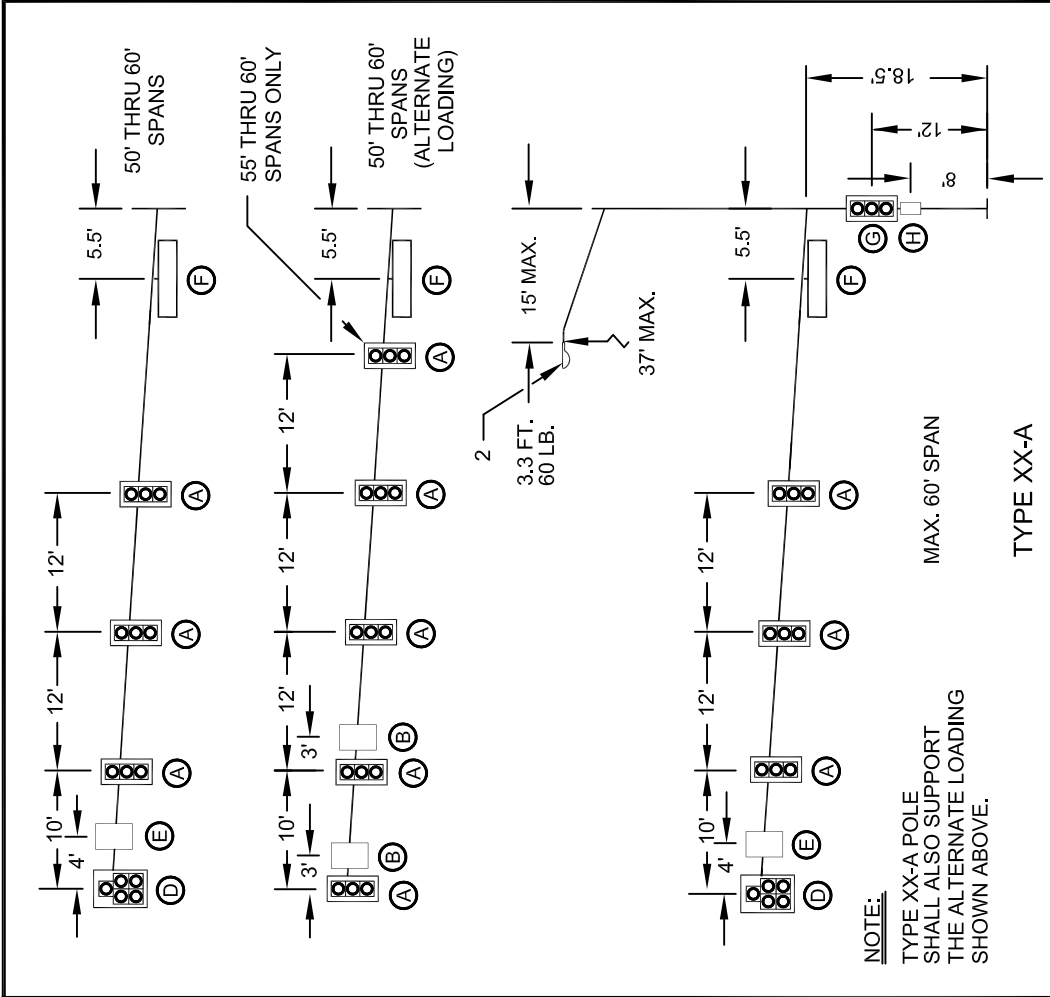
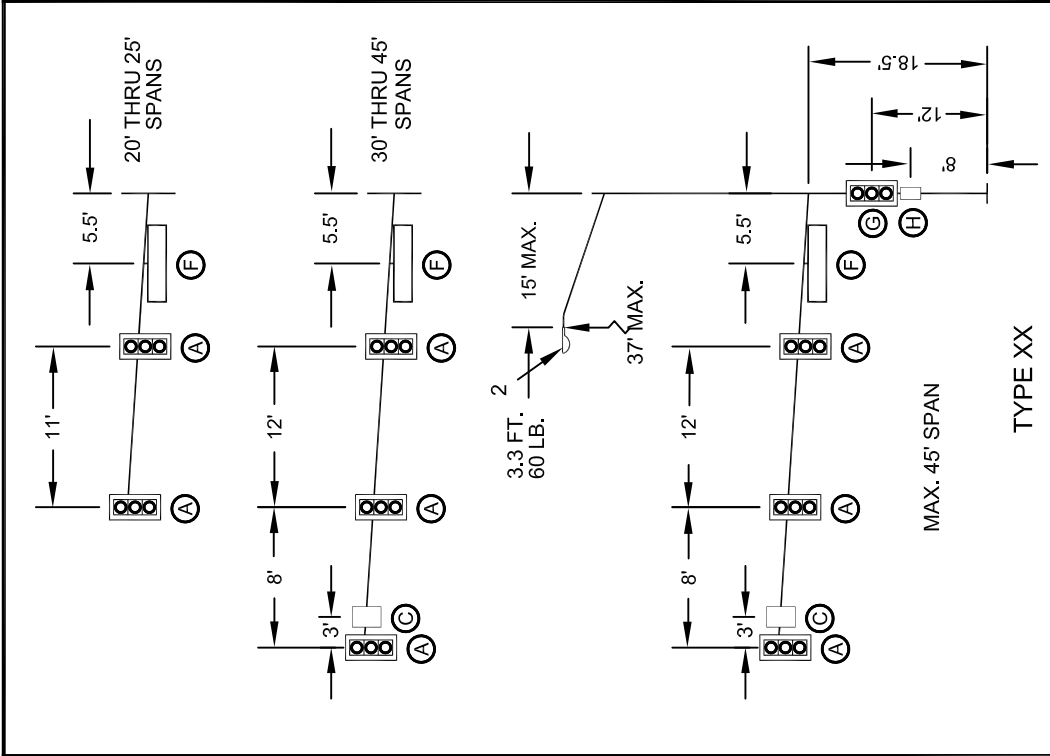
SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
<b>TYPE XX - A - 30'-0"</b> <b>(50' THRU 60' MAST ARMS)</b> <b>SIGNAL &amp; LUMINAIRE POLE DETAILS</b>				
DATE	9-14-06	DWG. NO.	404.406	SHEET
				4 OF 6

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

SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA				
LOADING INFORMATION				
DATE	7-8-93	DWG. NO.	404.406	SHEET
				5 OF 6



DEVICE	DESCRIPTION	PROJ. AREA (FT <sup>2</sup> )	WEIGHT (LBS)
(A) SIGNAL	12" - 3 SEC. W/ BACKPLATES (M-2)	9.80	40
(B) SIGN	R3-5 24" X 30"	5.00	15
(C) SIGN	R3-4 24" X 24"	4.00	10
(D) SIGNAL	12" - 5 SEC. W/ BACKPLATES	13.68	80
(E) SIGN	R10-5d(8) 36" X 45"	11.25	30
(F) SIGN	STREET NAME-FREE SWINGING-1.68' X 8'	13.44	100
(G) SIGNAL	DUAL-12" - 3 SEC. W/ BACKPLATES	17.34	80
(H) SIGNAL	DUAL-PEDESTRIAN	8.00	60

**DESIGN CRITERIA:**  
 1985 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.  
 MAXIMUM DESIGN MINIMUM YIELD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.  
 WIND VELOCITY:  
 80 MPH ISOTACH.

LOADING INFORMATION

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

3"

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

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

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.

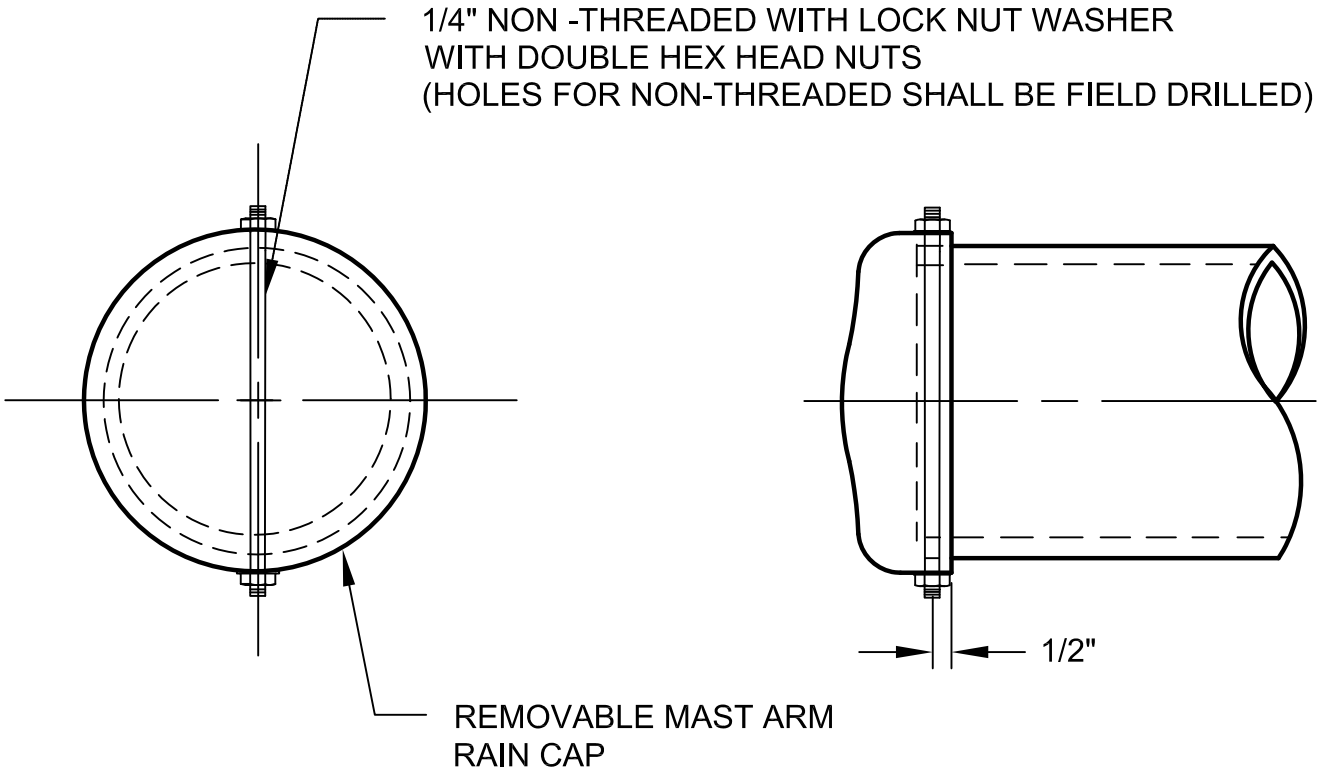
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TRAFFIC SIGNAL POLE  
GROUNDING

DATE 12-12-96 DWG. NO. 404.406 SHEET 6 OF 6

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

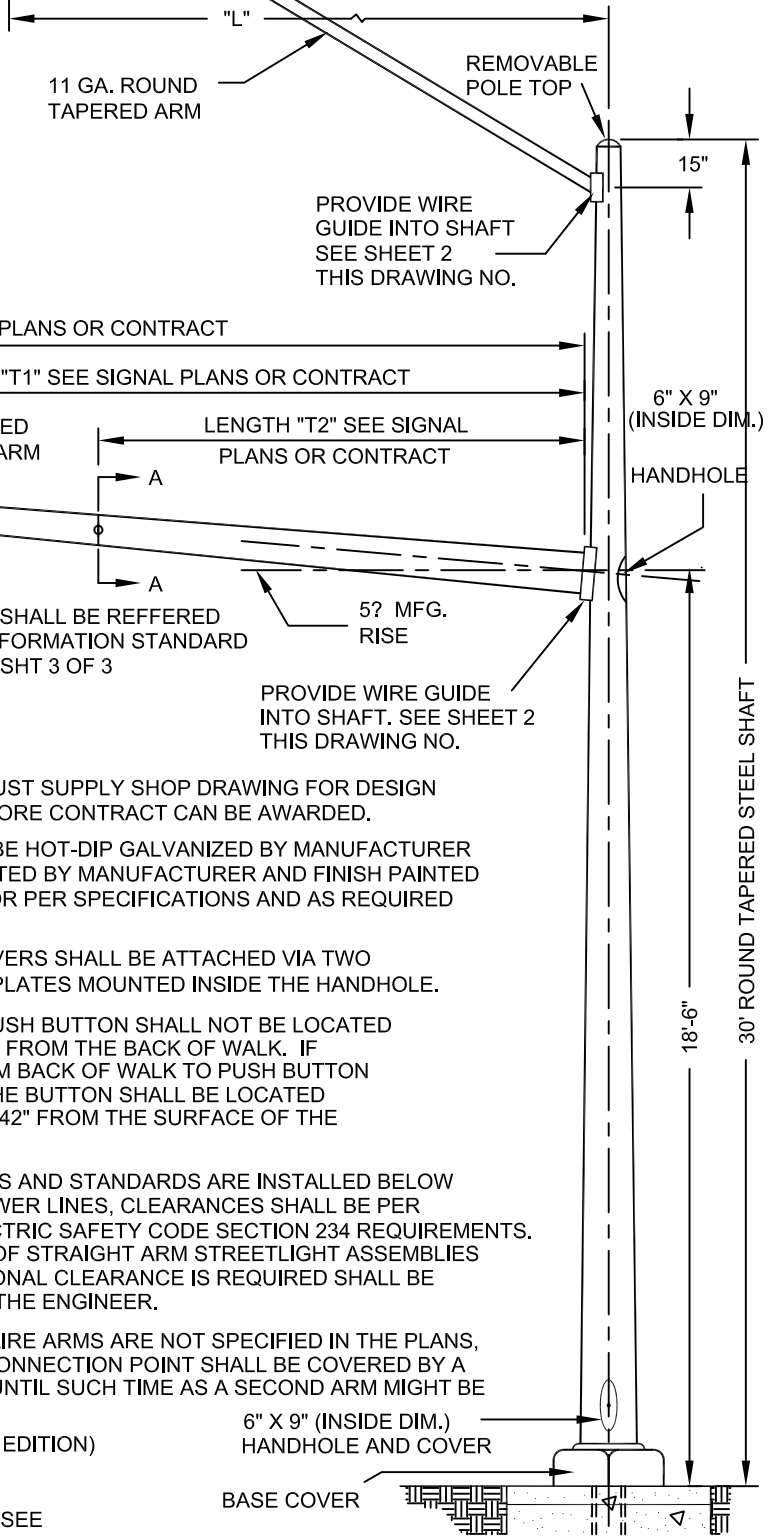


Effective 07/01/08 - 12/30/08

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
623	TRAFFIC SIGNALS & STREET LIGHTING	REMOVABLE MAST ARM END CAP DETAIL					
		DATE	05-19-05	DWG. NO.	404.406A	SHEET	1 OF 1

LUMINAIRE MOUNTING HEIGHT MEASURED TO CENTER OF END OF MAST ARM

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
6	3.42	2.38	11	32'-0"
8	3.75	2.38	11	33'-3"
10	4.16	2.38	11	35'-0"
12	4.52	2.38	11	36'-6"
15	4.95	2.38	11	37'-0"



REMOVABLE ARM END CAP

LENGTH "L" SEE SIGNAL PLANS OR CONTRACT

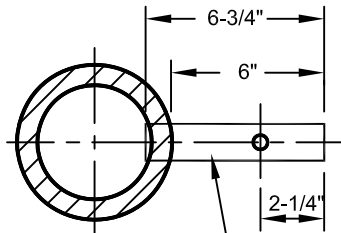
LENGTH "T1" SEE SIGNAL PLANS OR CONTRACT

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 LUMINAIRE ARMS ARE NOT SPECIFIED IN THE PLANS, THE SECOND CONNECTION POINT SHALL BE COVERED BY A COVER PLATE UNTIL SUCH TIME AS A SECOND ARM MIGHT BE ADDED.



2" SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBIZER

DETAIL A-A

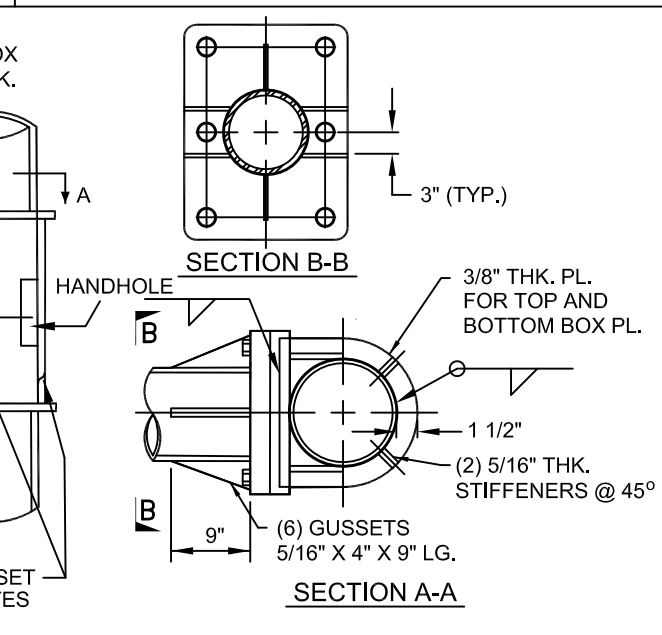
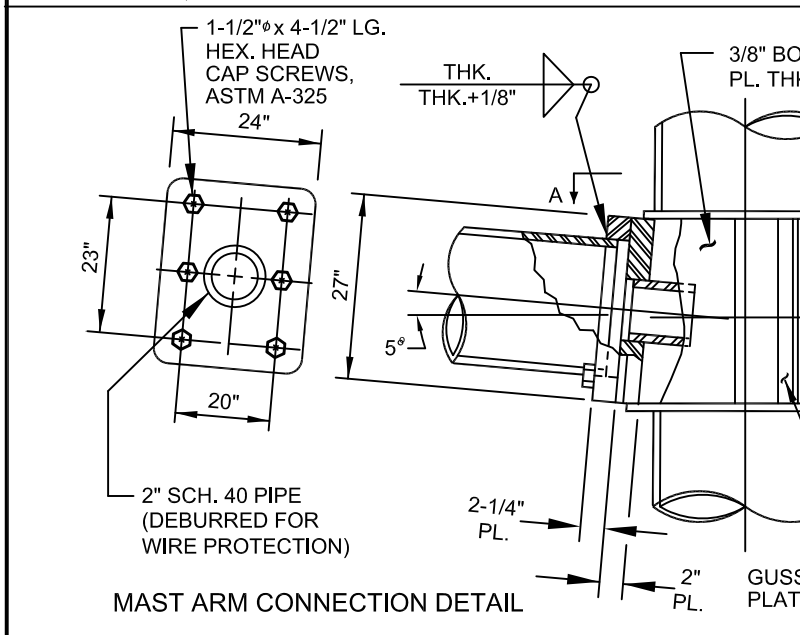
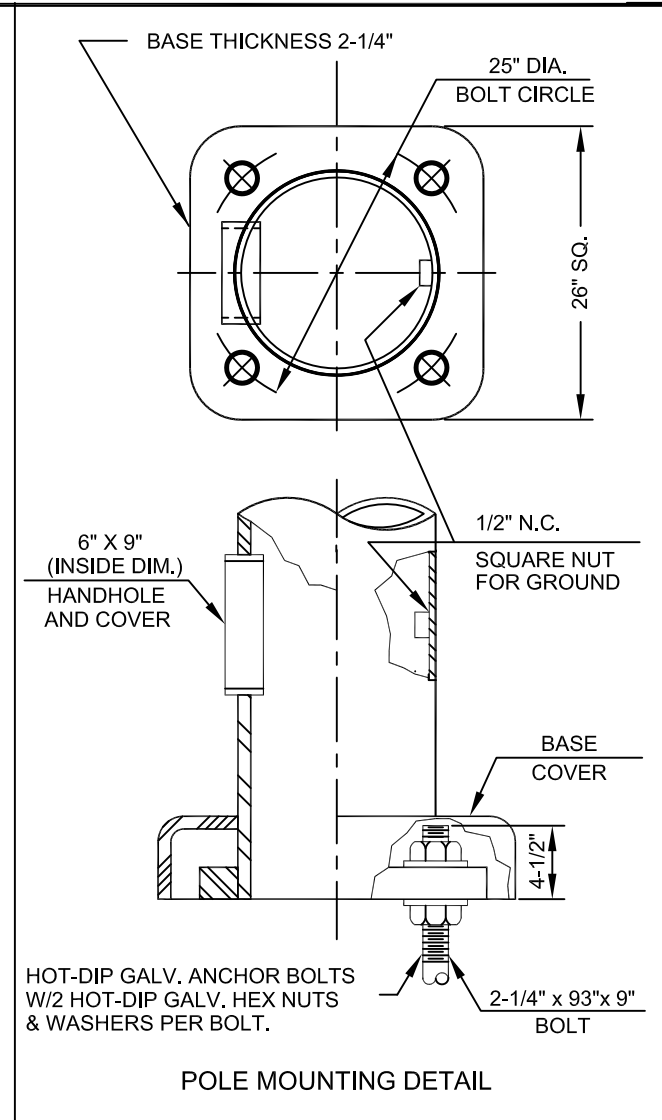
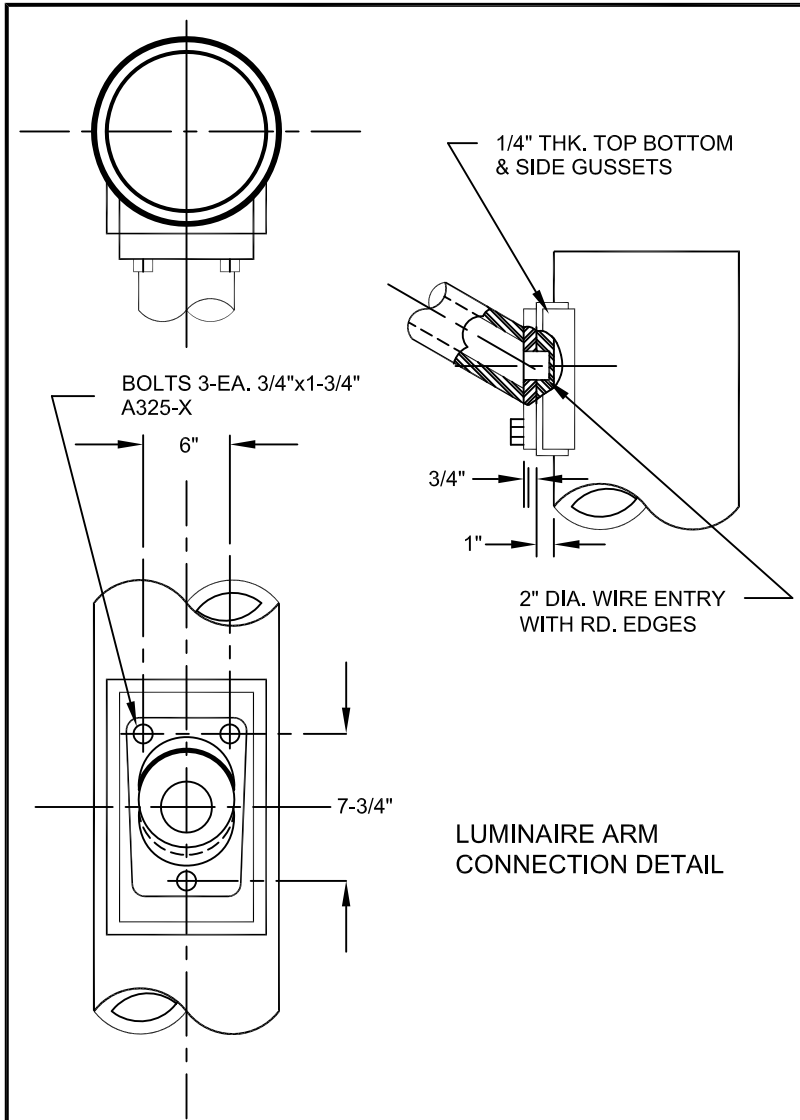
POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O. (1994 EDITION) 80 MPH WINDS. (SEE DRAWING NO. 404.406B SHEET 3 OF 3 FOR LOADING INFORMATION)

FOR "M" TYPE FOUNDATION SEE DRAWING NO. 404.210

SPECIFICATION REFERENCE

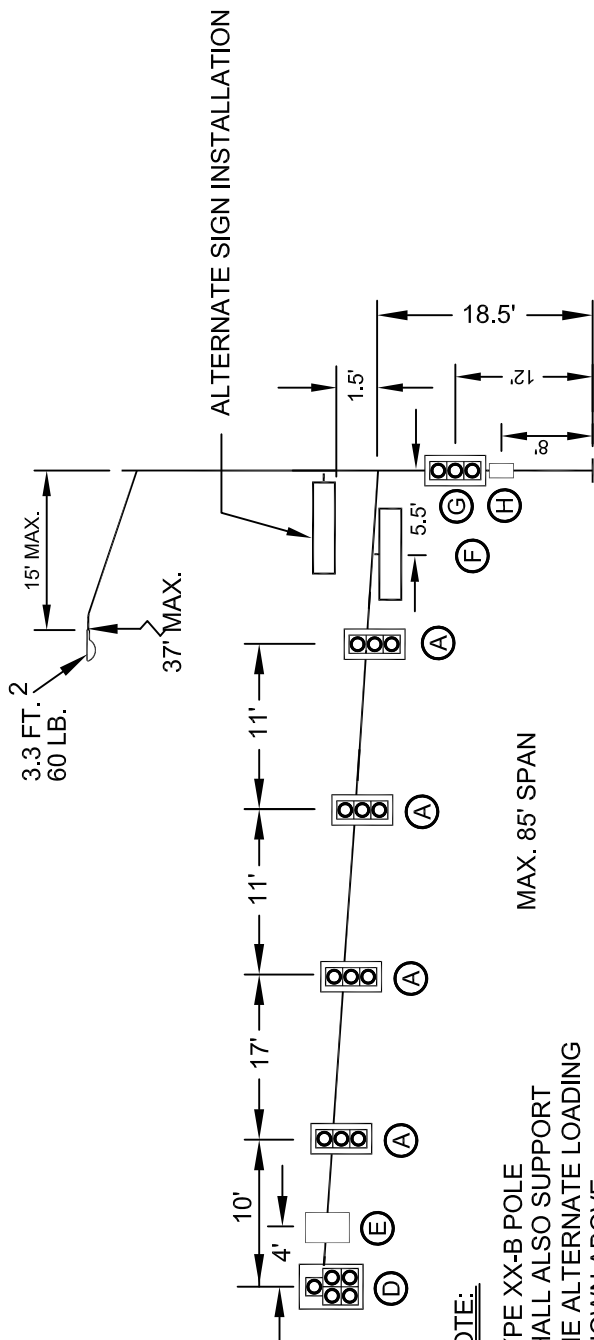
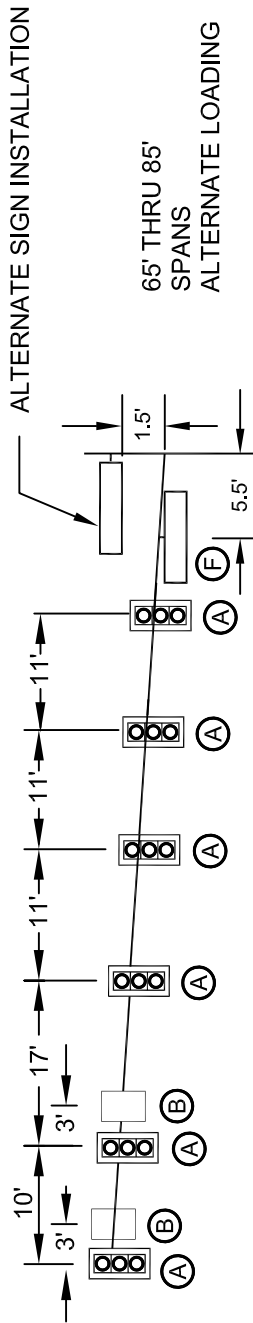
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

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



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

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
	TYPE XX - B - 30'-0" (65' THRU 85' MAST ARMS) SIGNAL & LUMINAIRE POLE DETAILS			
	DATE 11/10/05	DWG. NO. 404.406B	SHEET	2 OF 3



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

**DESIGN CRITERIA:**

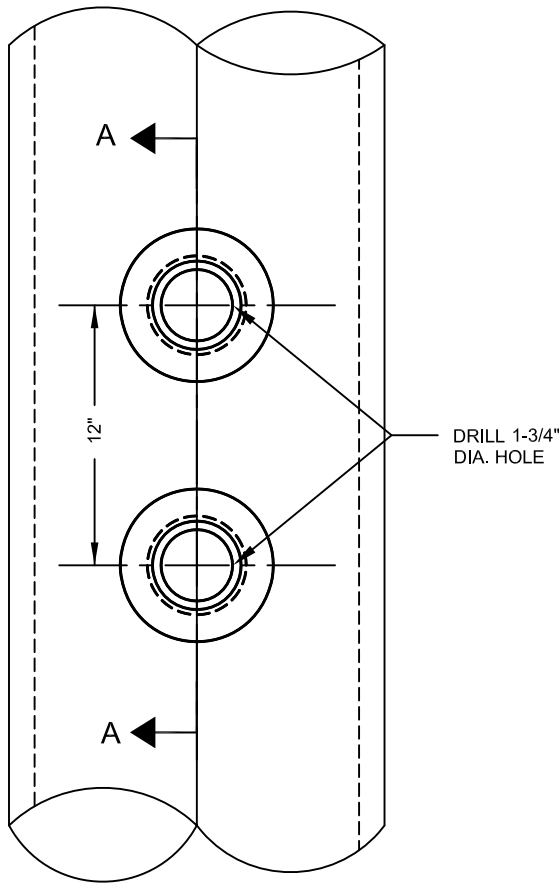
AASHTO STANDARD SPECIFICATIONS (1994 EDITION) FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.  
 DESIGN MINIMUM YIELD STRENGTH FOR TUBULAR MEMBERS SHALL BE LIMITED TO 48,000 PSI FOR COLD WORKED MATERIALS AND 50,000 PSI FOR NON-COLD WORKED MATERIALS.  
 WIND VELOCITY:  
 80 MPH ISOTACH.

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

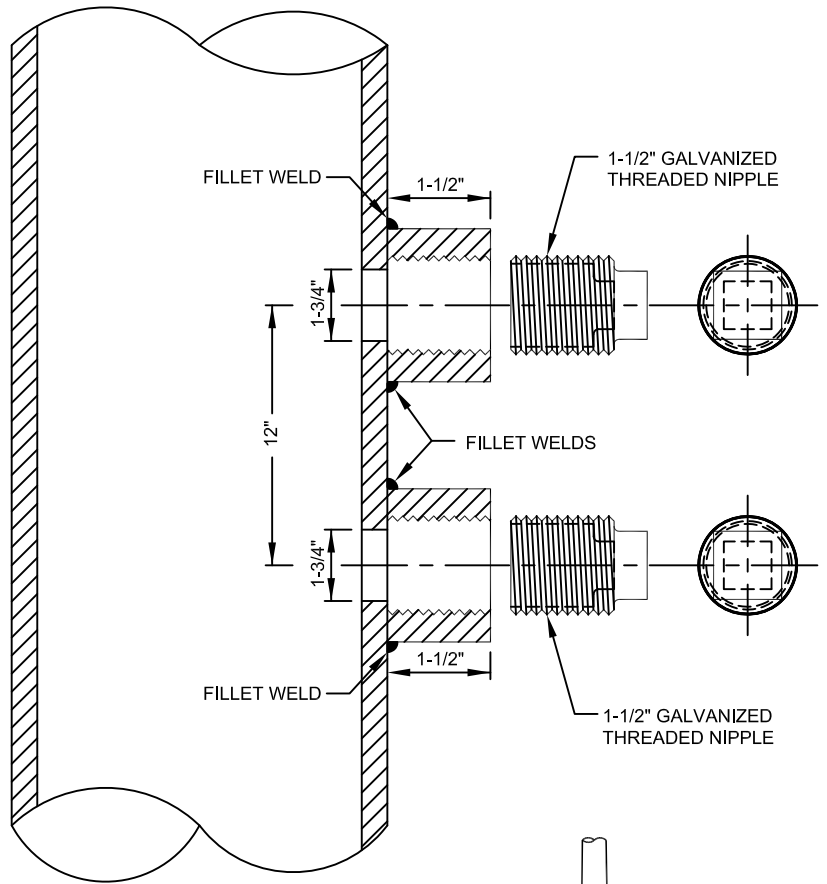
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

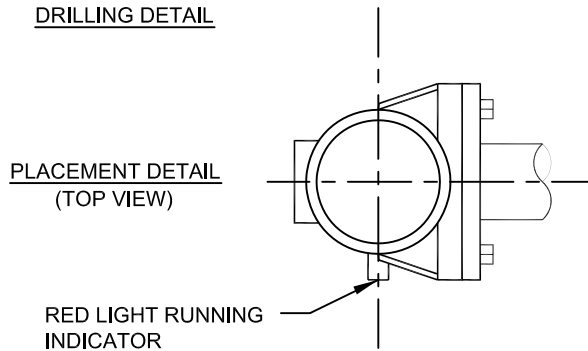
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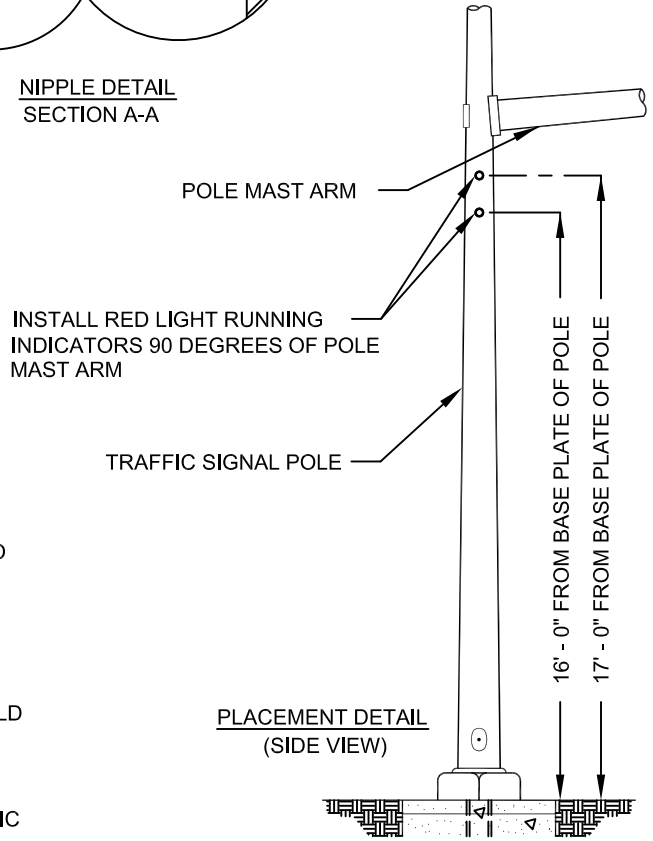
**DRILLING DETAIL**



**NIPPLE DETAIL SECTION A-A**



**PLACEMENT DETAIL (TOP VIEW)**



**PLACEMENT DETAIL (SIDE VIEW)**

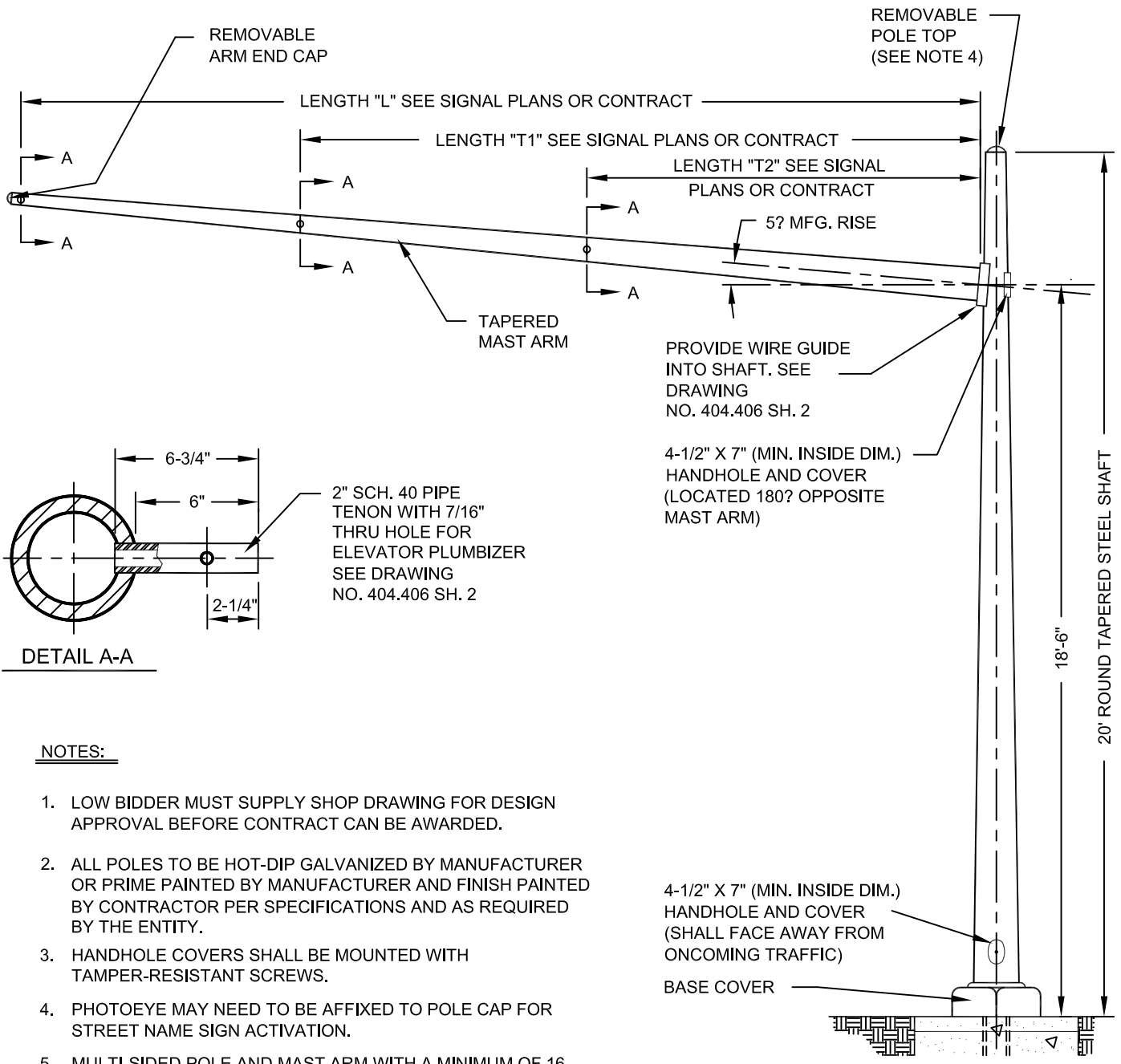
**NOTES:**

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

CLARK COUNTY ONLY  
RED LIGHT RUNNING INDICATOR  
INSTALLATION DETAILS



**NOTES:**

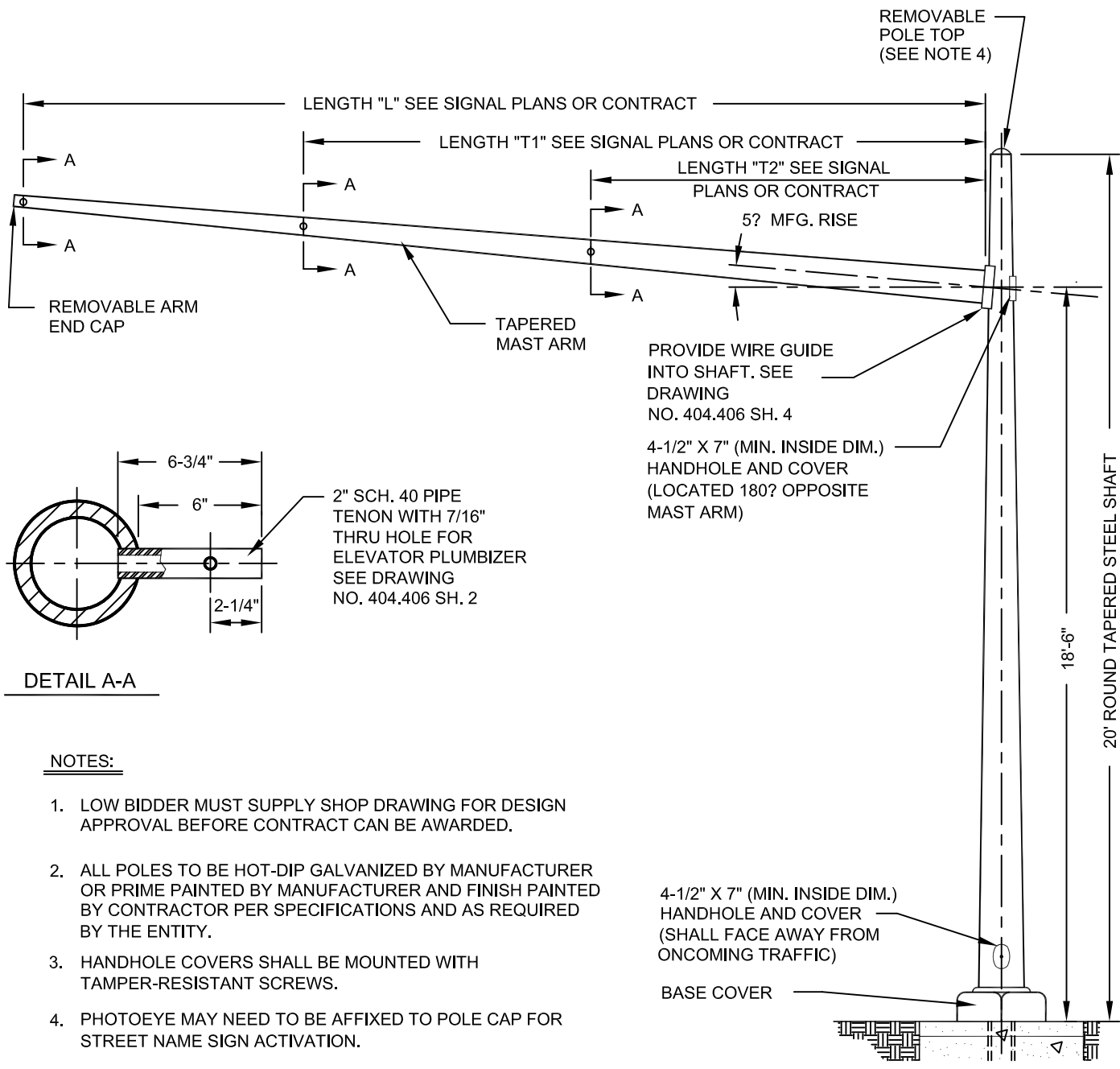
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.
5. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

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

FOR OTHER DETAILS SEE DRAWING NO. 404.406 SHTS. 2 & 6.  
FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
	TYPE XX 20'-0" SIGNAL POLE (45' OR LESS MAST ARMS)			
	DATE	9-14-06	DWG. NO.	404.407
			SHEET	1 OF 2

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



DETAIL A-A

**NOTES:**

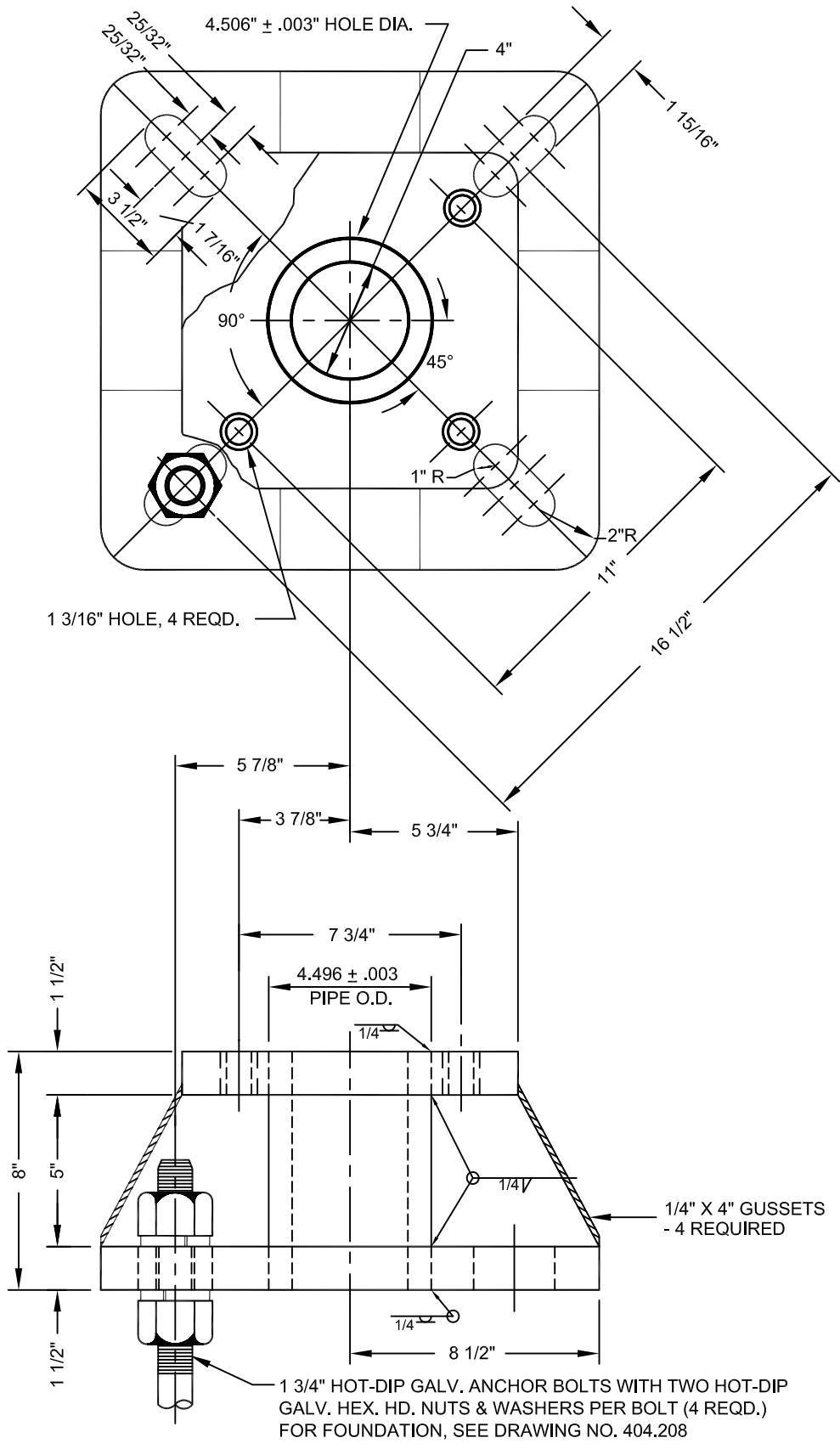
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. 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 OTHER DETAILS SEE DRAWING NO. 404.406 SH. 4 & 6.

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.209.

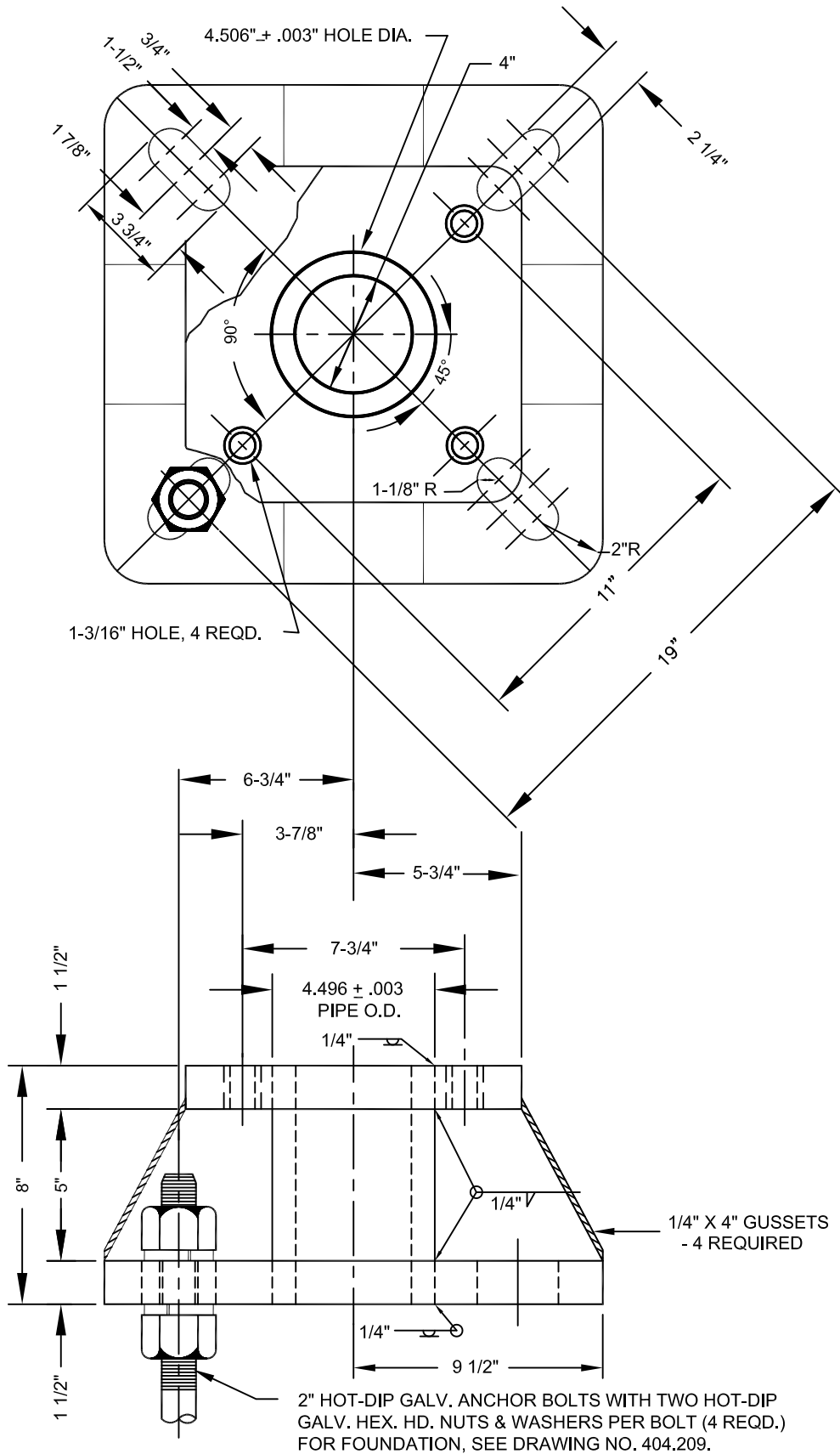
SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
	TYPE XX-A-20'-0" (50' THRU 60' MAST ARMS) SIGNAL POLE			
	DATE 9-14-06	DWG. NO. 404.407	SHEET	2 OF 2



SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

BASE ADAPTOR PLATE  
FOR TYPE "H" FOUNDATION



1-3/16" HOLE, 4 REQD.

2" HOT-DIP GALV. ANCHOR BOLTS WITH TWO HOT-DIP GALV. HEX. HD. NUTS & WASHERS PER BOLT (4 REQD.) FOR FOUNDATION, SEE DRAWING NO. 404.209.

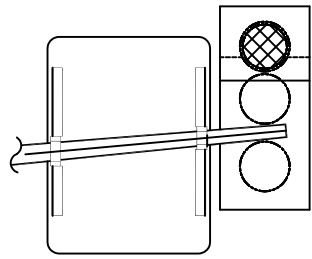
1/4" X 4" GUSSETS - 4 REQUIRED

SPECIFICATION REFERENCE

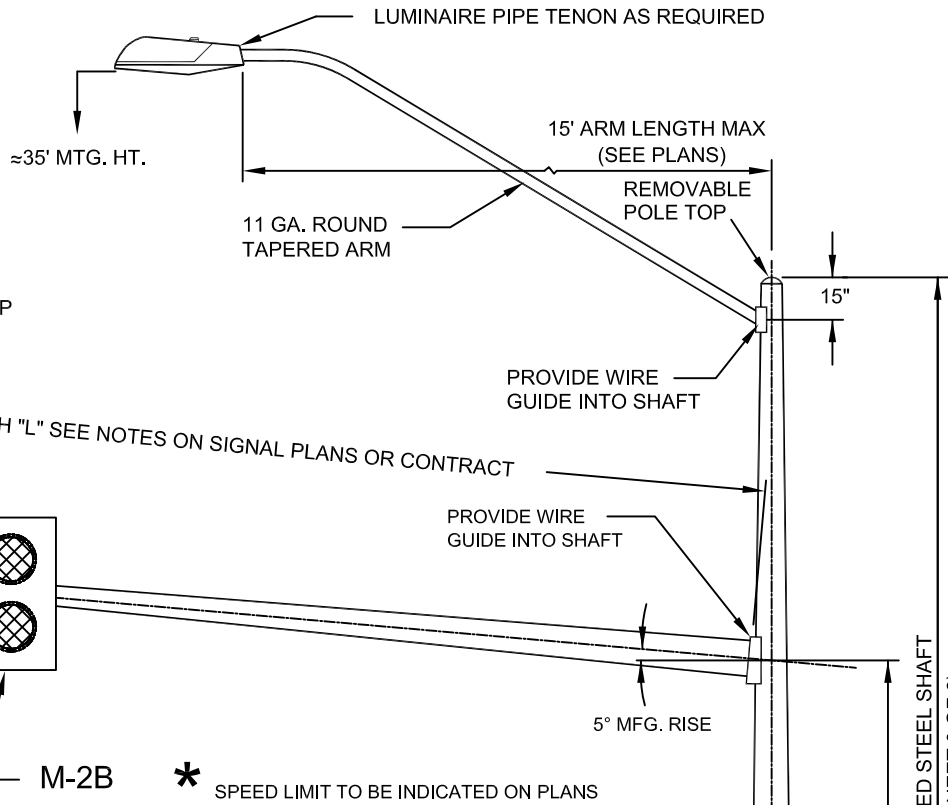
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

BASE ADAPTOR PLATE  
FOR TYPE "L" FOUNDATION

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



BACK VIEW OF SIGN



FRONT VIEW

**NOTES:**

1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
2. FOR MAST ARM TENON MOUNTING AND SPACING AND ADDITIONAL INFORMATION REFER TO STANDARD DRAWING NO. 404.412
3. MULTI SIDED POLE AND MAST ARM WITH A MINIMUM OF 16 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR OTHER DETAILS SEE DRAWING NUMBER 404.406 SHT 2 & 6

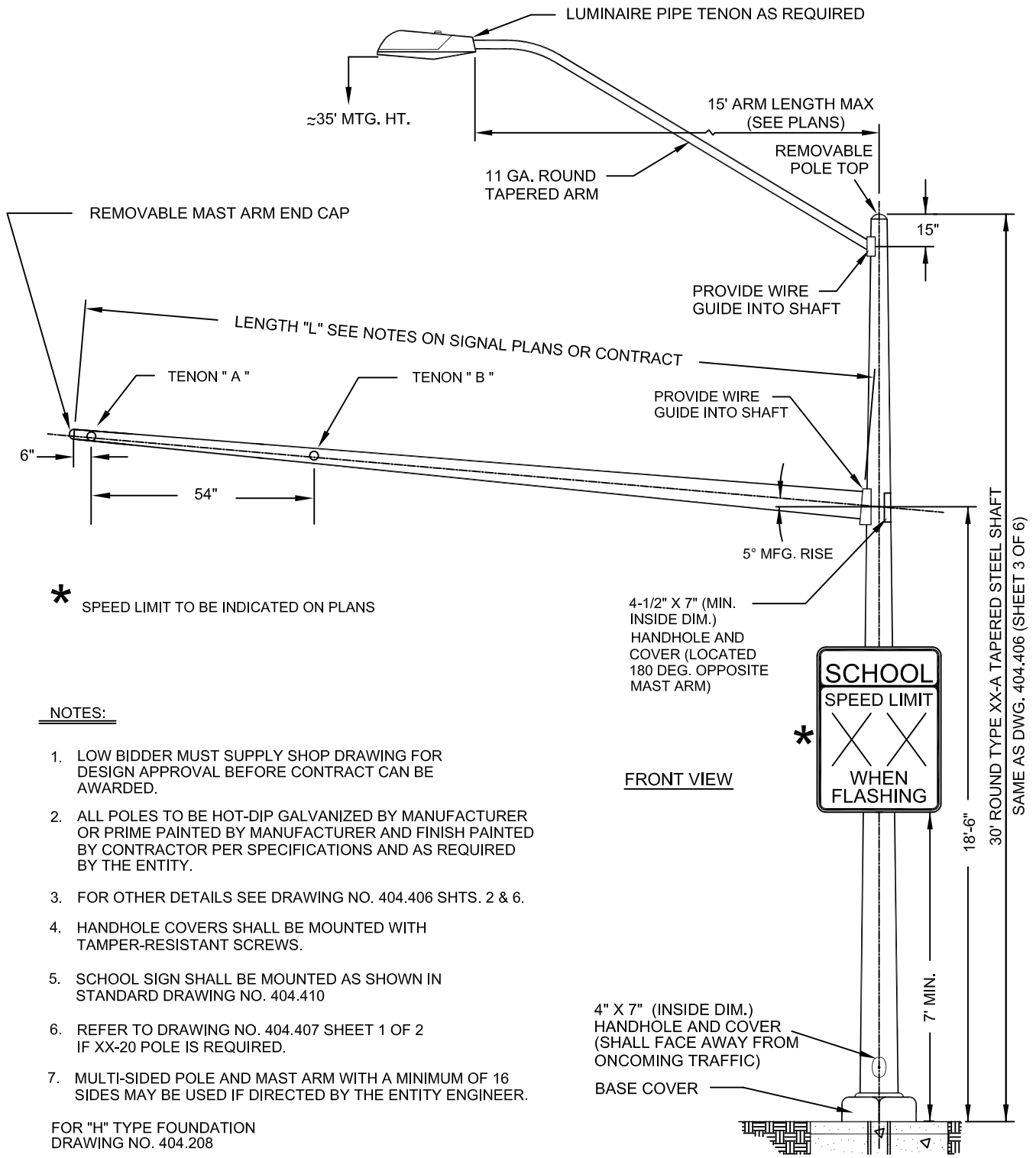
FOR "H" TYPE FOUNDATION SEE DRAWING NO. 404.208

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

30' POLE WITH SCHOOL  
FLASHING SIGN



\* SPEED LIMIT TO BE INDICATED ON PLANS

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

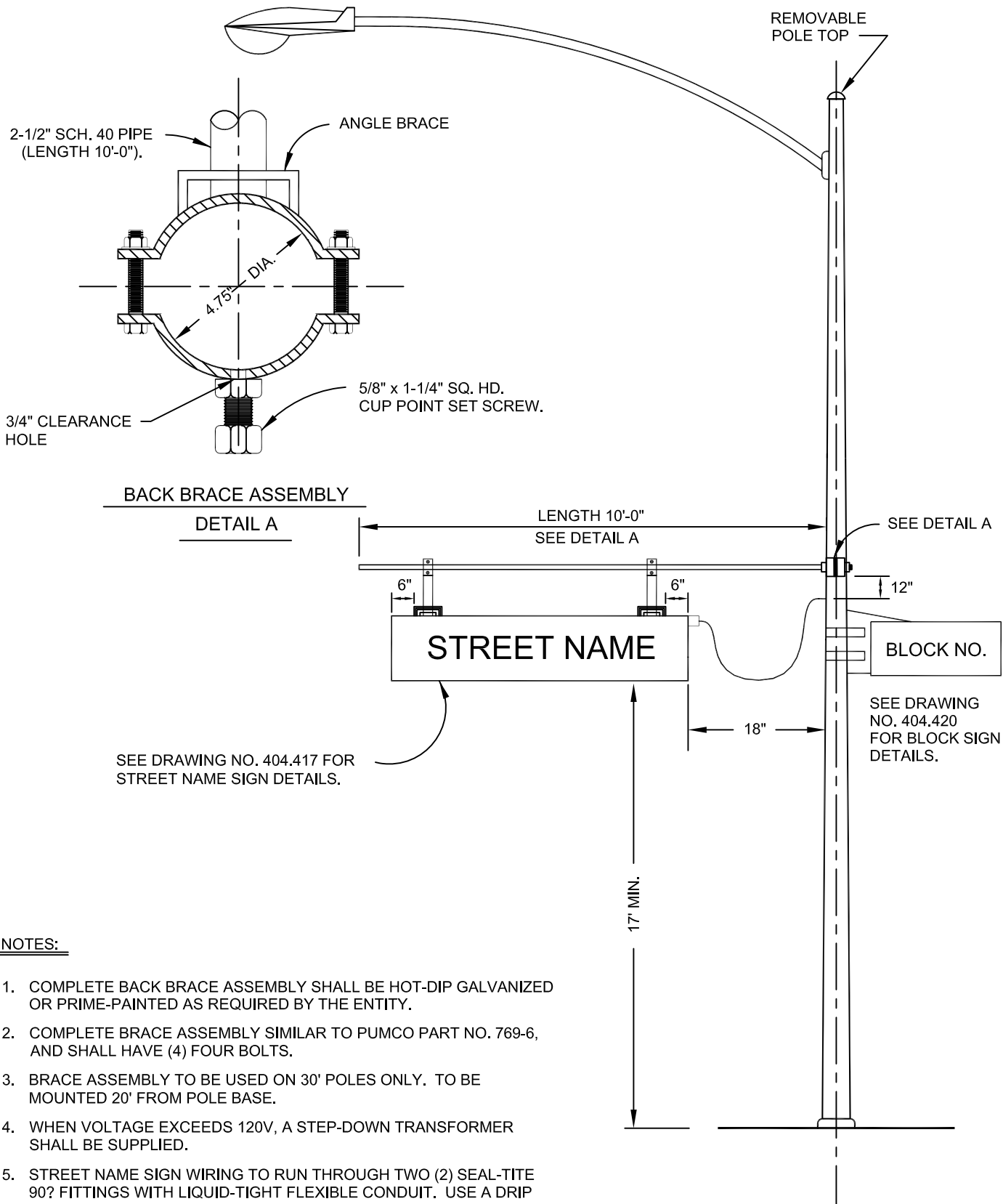
FOR "L" FOUNDATION SEE DWG. 404.209

FRONT VIEW

SAME AS DWG. 404.406 (SHEET 3 OF 6)

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

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		SCHOOL SIGN POLE TYPE XX-A	
DATE	04-12-07	DWG. NO.	404.412



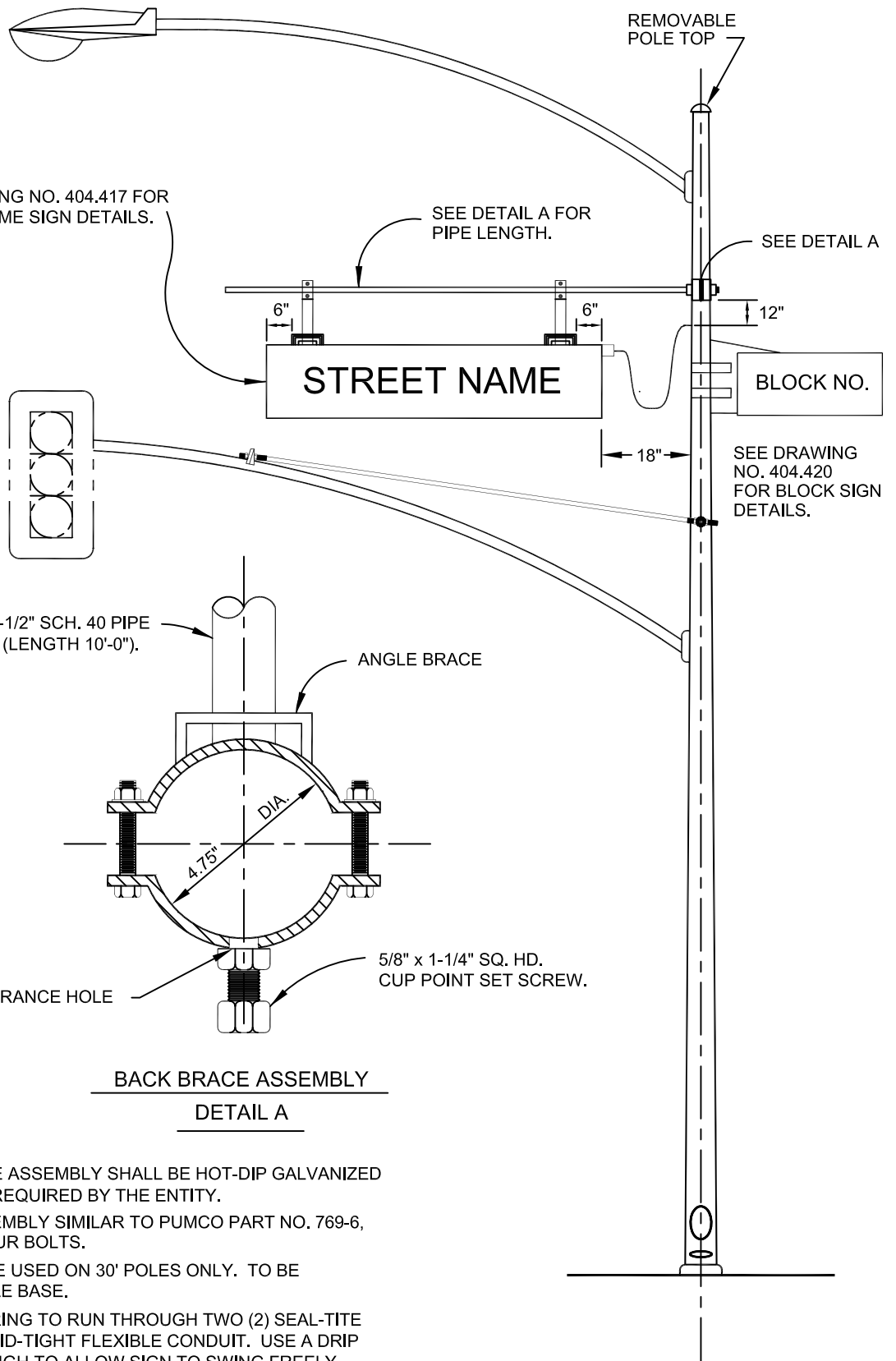
**NOTES:**

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

STREETLIGHTING POLE WITH  
ILLUMINATED STREET NAME SIGN



**BACK BRACE ASSEMBLY  
DETAIL A**

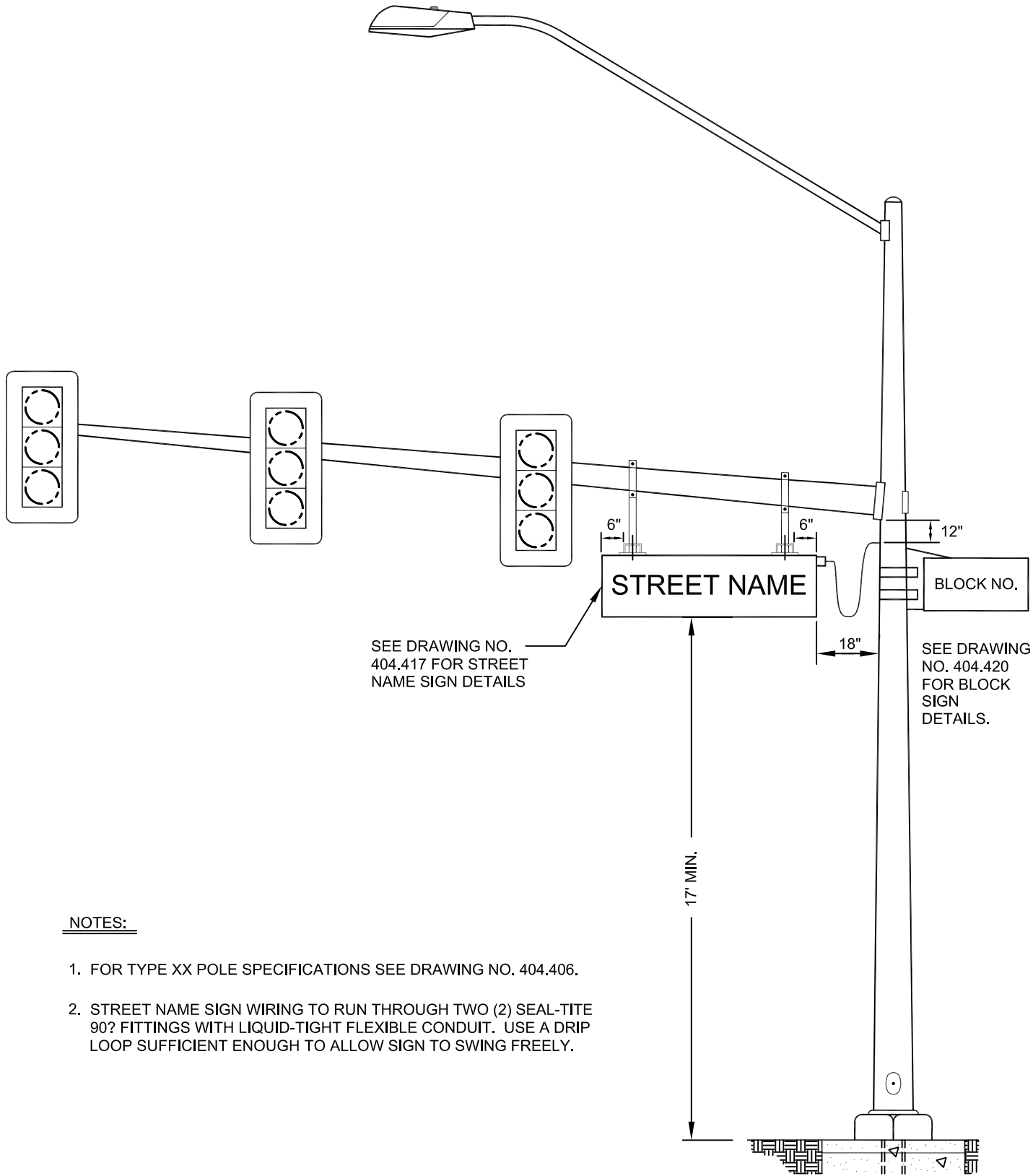
**NOTES:**

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE III POLE WITH  
ILLUMINATED STREET NAME SIGN



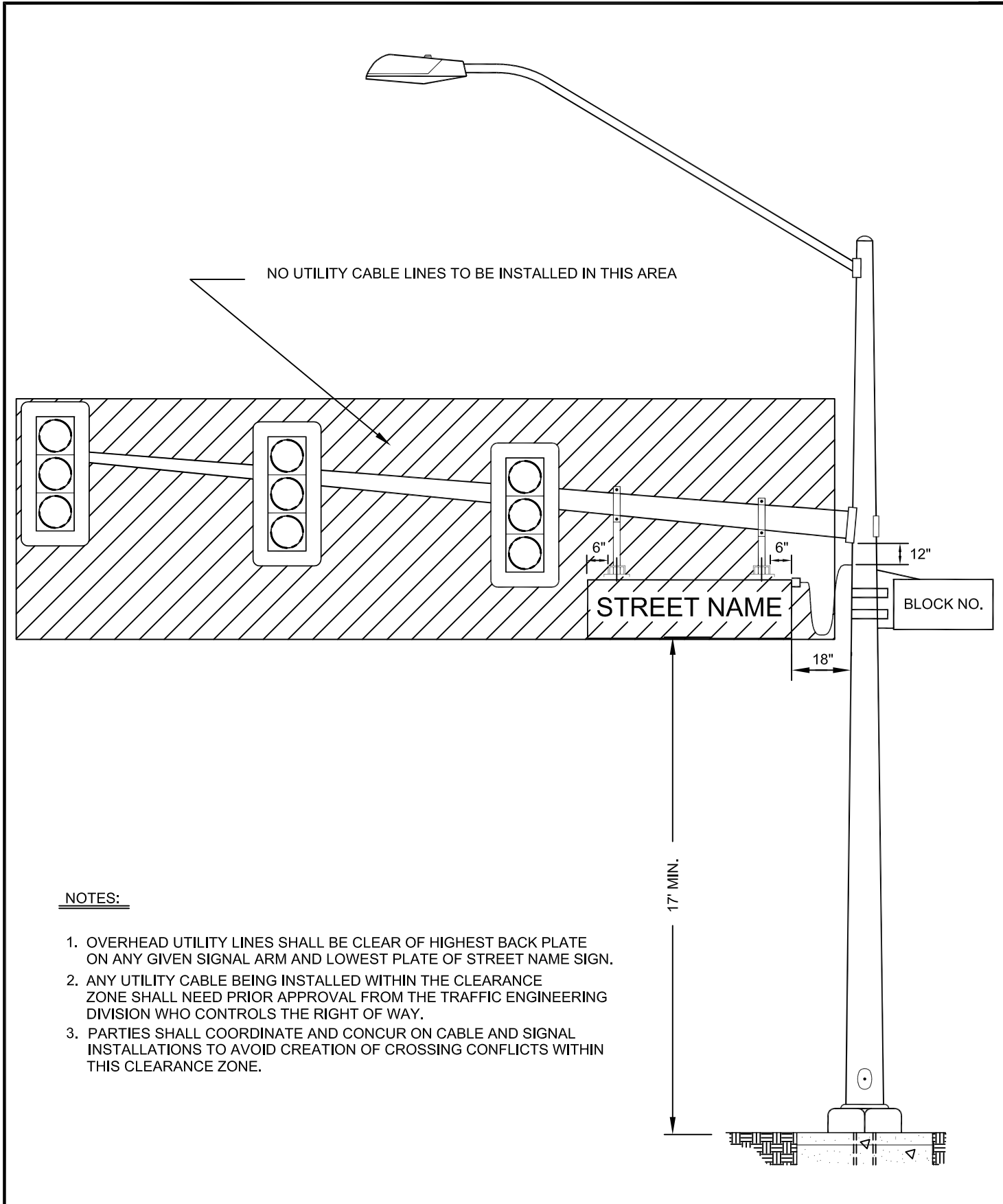
NOTES:

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE XX POLE WITH  
ILLUMINATED STREET NAME SIGN

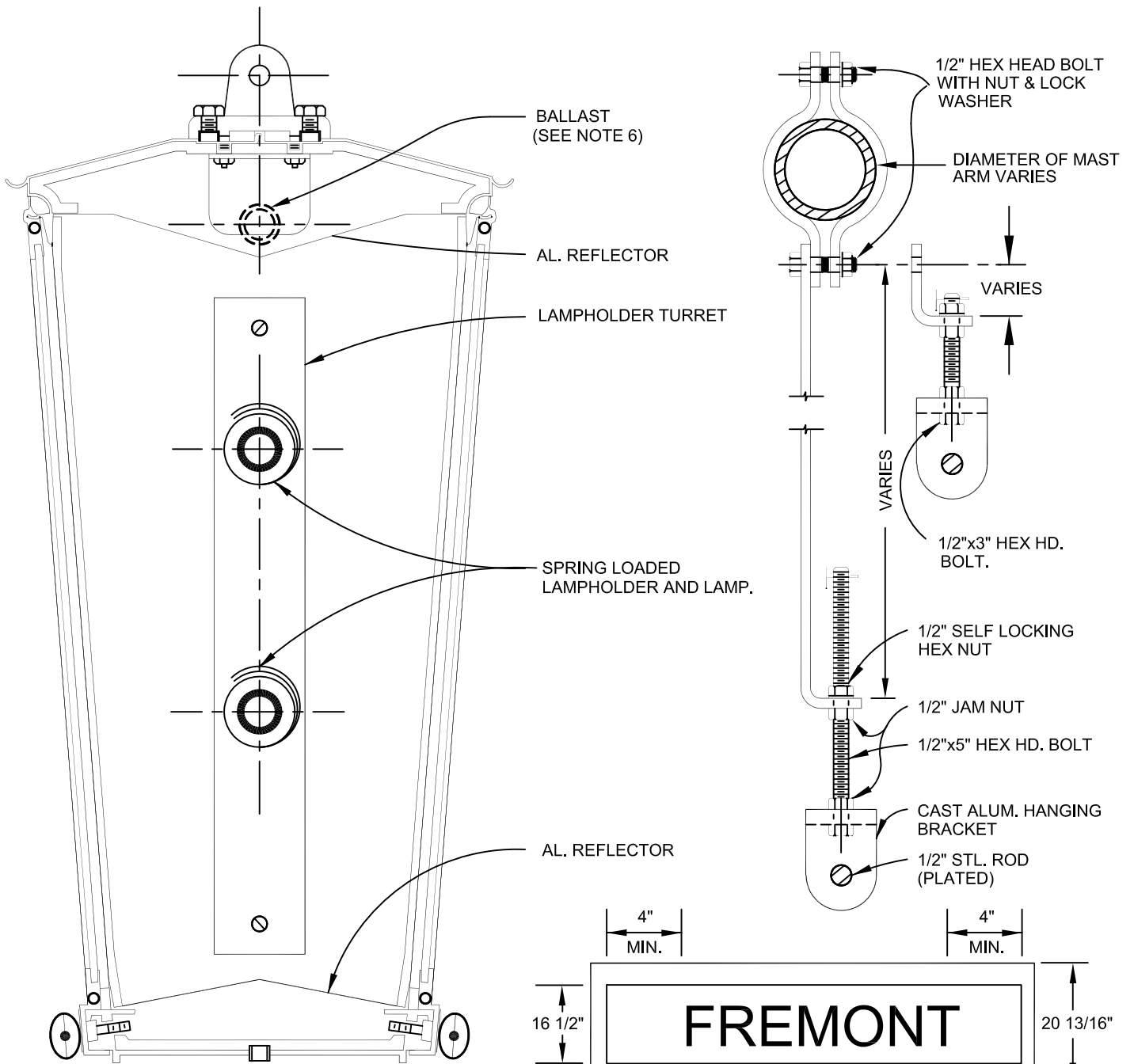


NOTES:

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.

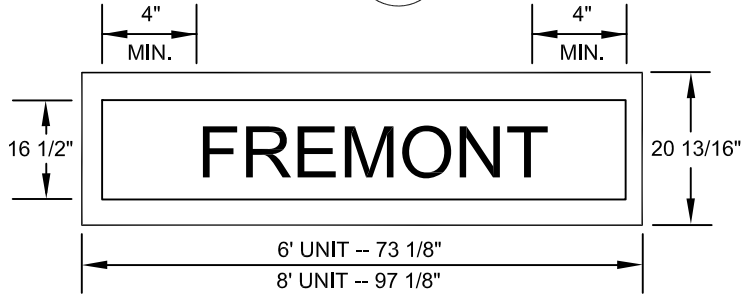
Effective 07/01/08 - 12/30/08

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA
	UTILITY CABLE CLEARANCE OVER TRAFFIC SIGNALS NEW INSTALLATION ONLY
DATE 2-08-07	DWG. NO. 404.416A



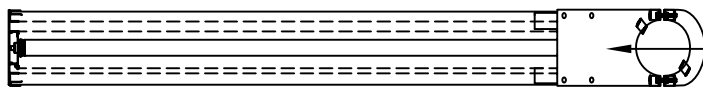
**NOTES:**

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.

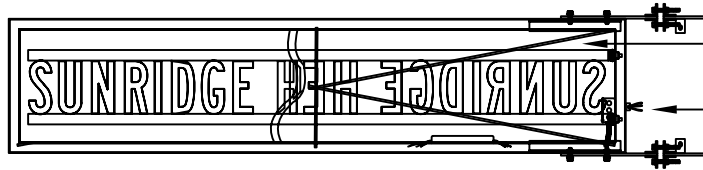


SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA			
		STREET NAME SIGN INTERNALLY ILLUMINATED			
DATE	3-9-06	DWG. NO.	404.417	SHEET	1 OF 1

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



FLAG MOUNT BRACKET



3/8" SUPPORT RODS TO PREVENT VERTICAL SAG OF CABINET

HANDI-BOX FOR INCOMING PRIMARY

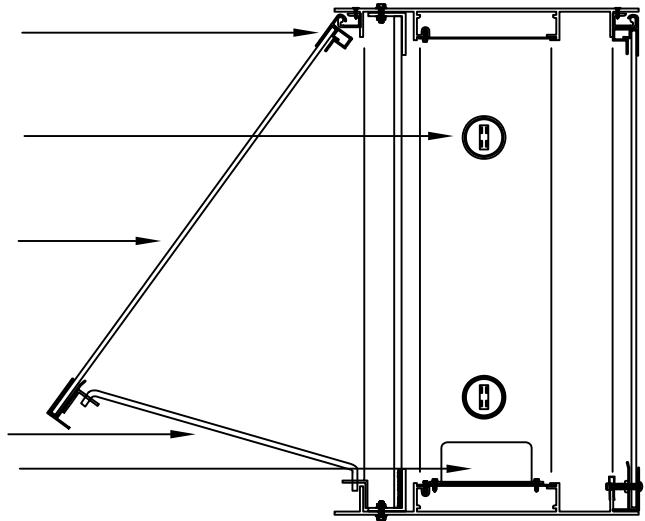


STD. 12" EXTRUSION WITH 1-1/2" TOP HINGE RETAINER SYSTEM

STD. 8'-0" CWHO LAMPS ON 10" CENTERS HORIZONTALLY

WHITE POLYCARBONATE FACE

ALUMINUM PROP ROD FOR SERVICE BALLAST ATTACHED TO EXTRUDED WIREWAY



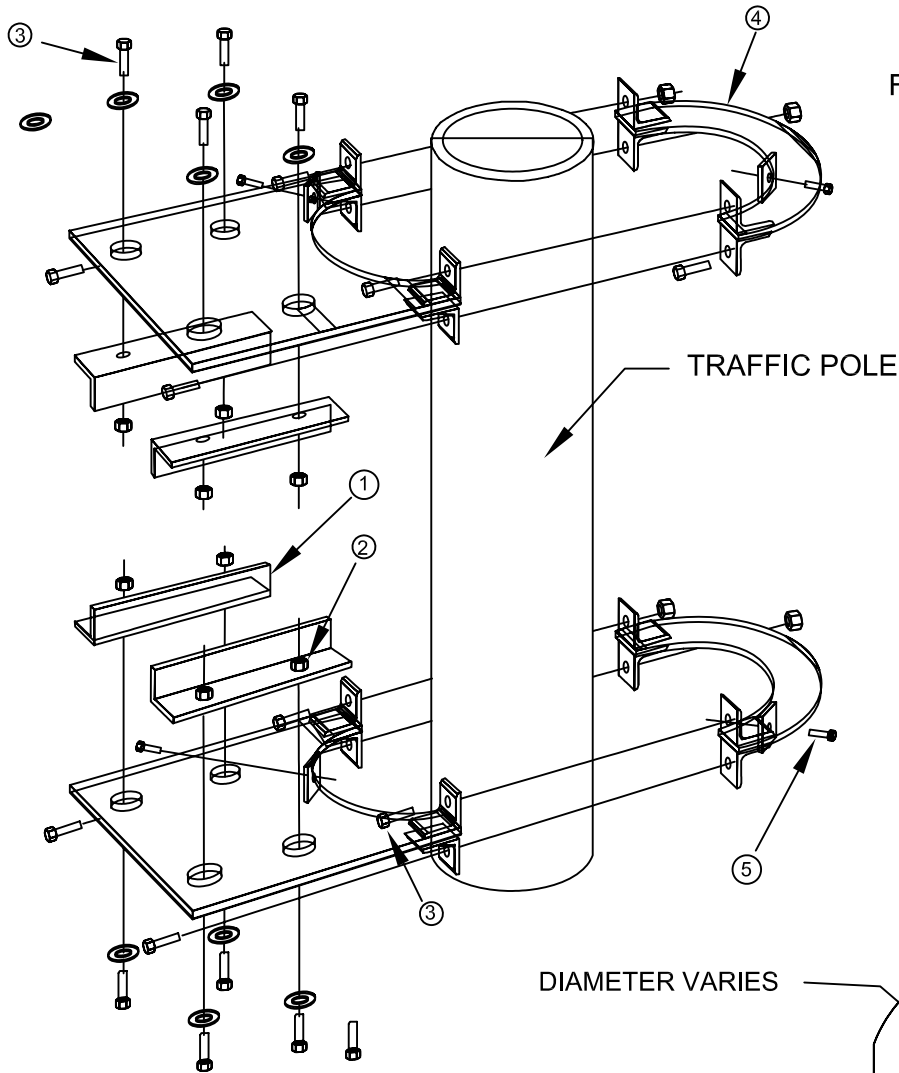
**NOTES:**

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

ALTERNATIVE POLE MOUNTED STREET  
NAME SIGN INTERNALLY ILLUMINATED



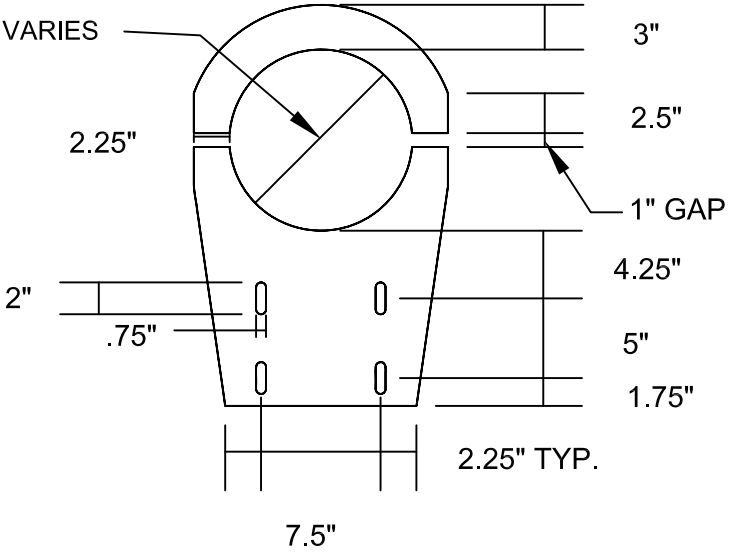
FLAG MOUNT ATTACHMENT DETAIL  
NOT TO SCALE

- 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

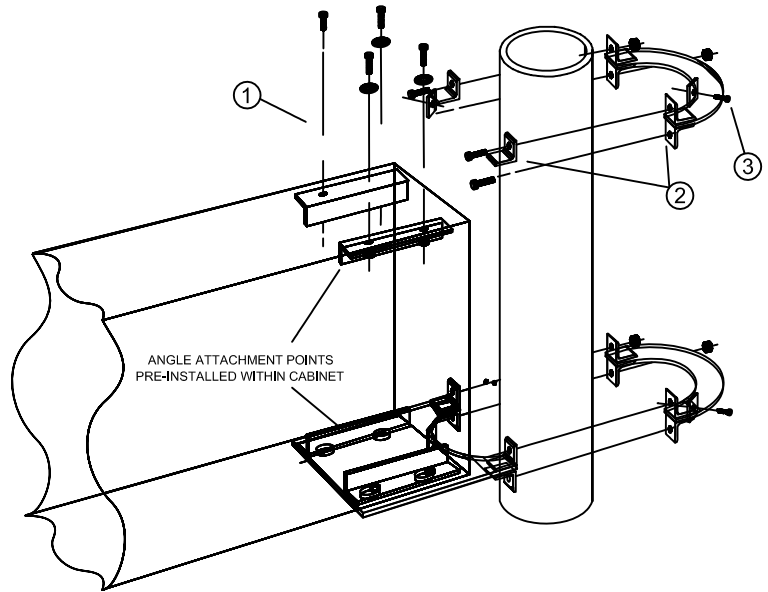


Effective 07/01/08 - 12/30/08

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

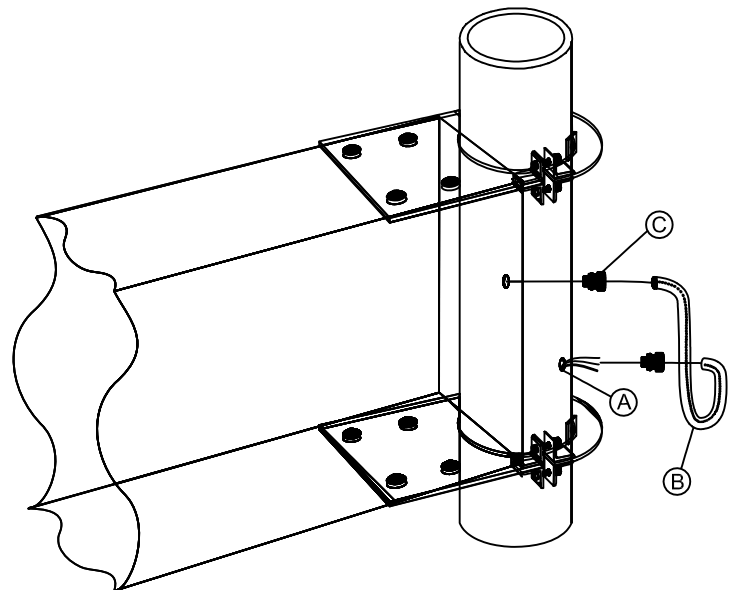
INSTALLATION INSTRUCTIONS

- \* ATTACH BRACKETS ① TO CABINET END AT TOP AND BOTTOM WITH BOLTS PROVIDED LOSSELY 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 ① 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 ② & FITTING ③ 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.



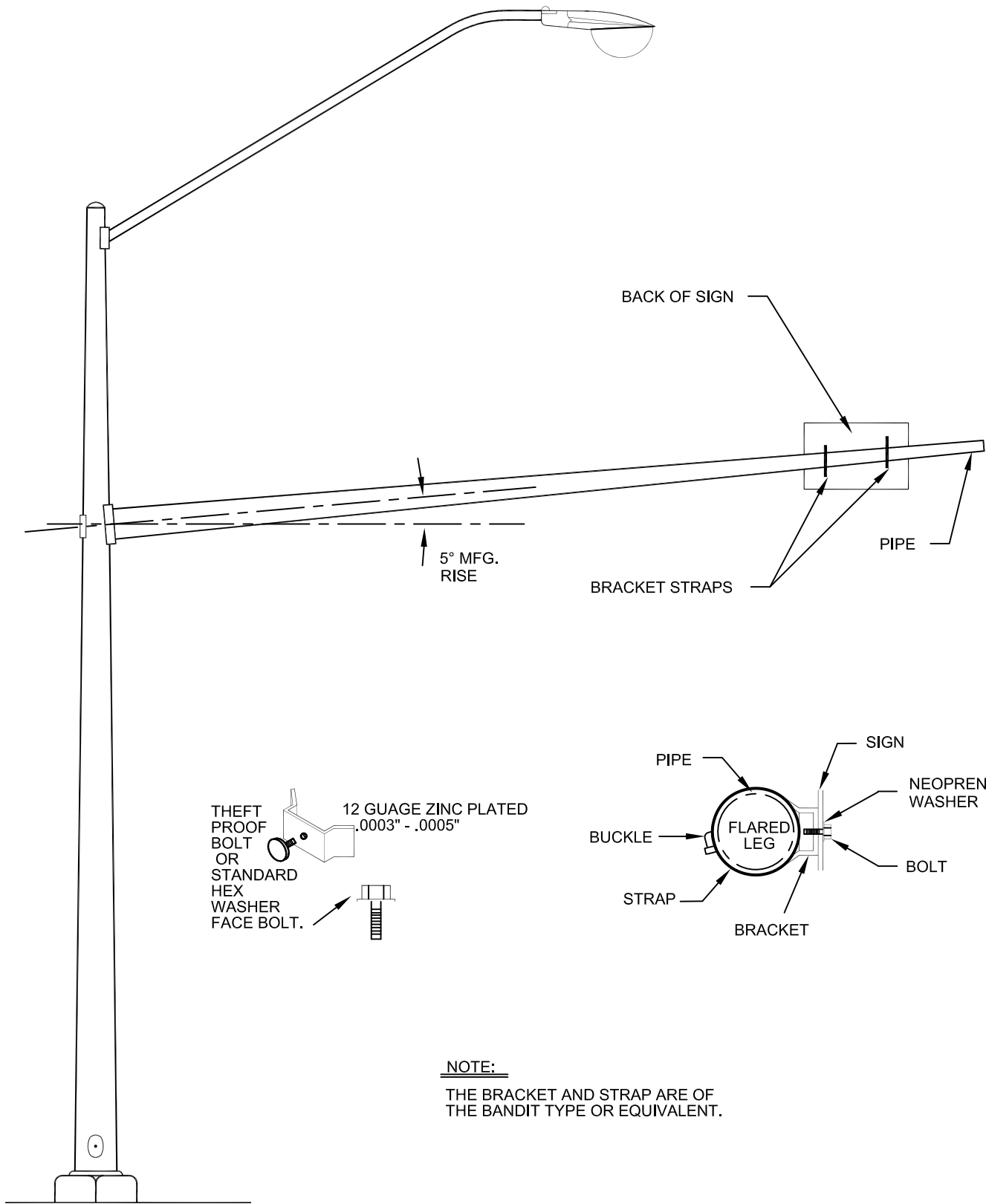
NOTE: THE STREET NAME SIGN SHALL BE MOUNTED 18" ABOVE THE MAST ARM

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.

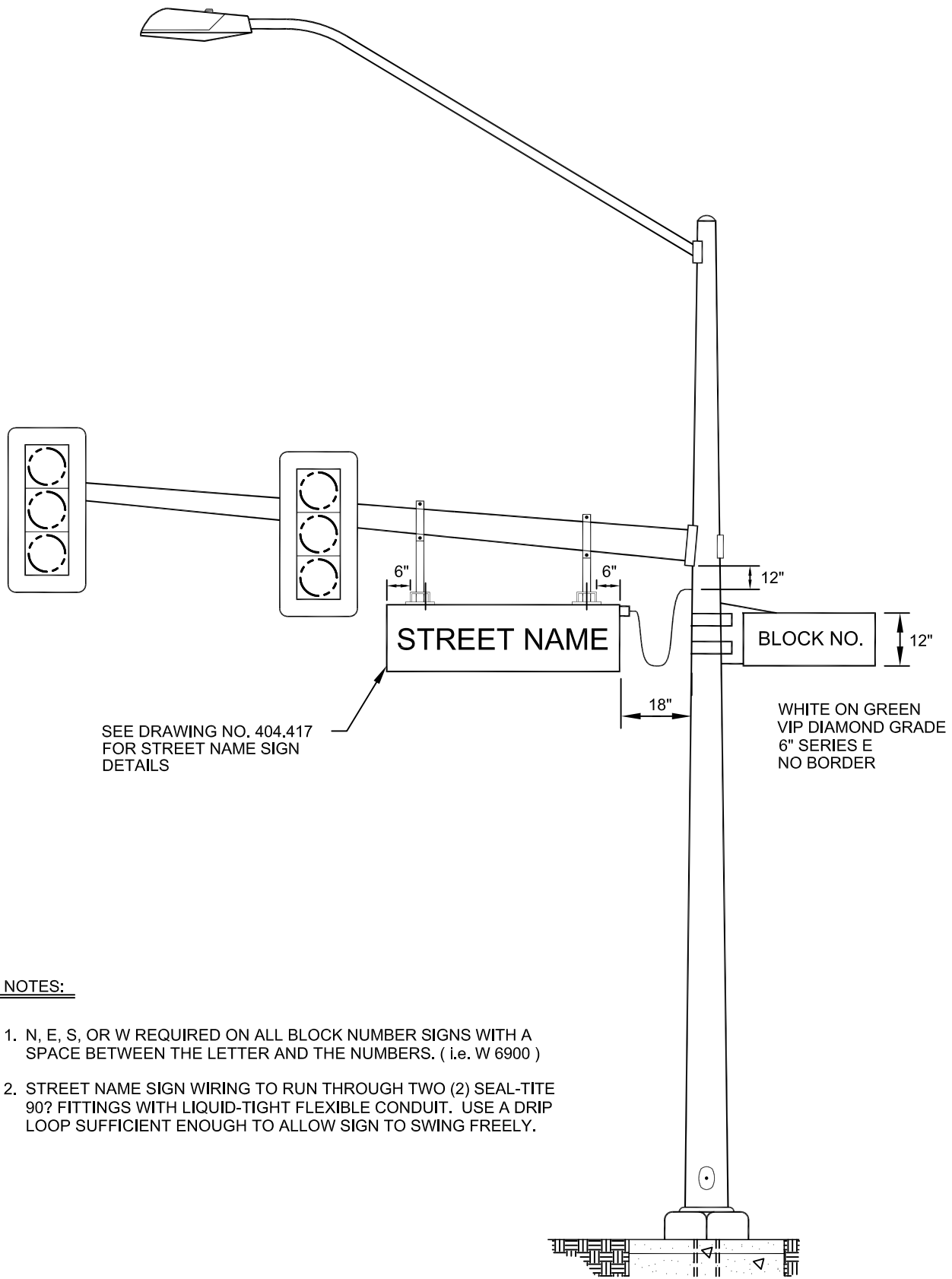
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

SIGN MOUNTING  
 ILLUSTRATION

DATE	4-9-98	DWG. NO.	404.418	SHEET	1 OF 1
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Effective 07/01/08 - 12/30/08



SEE DRAWING NO. 404.417  
FOR STREET NAME SIGN  
DETAILS

WHITE ON GREEN  
VIP DIAMOND GRADE  
6" SERIES E  
NO BORDER

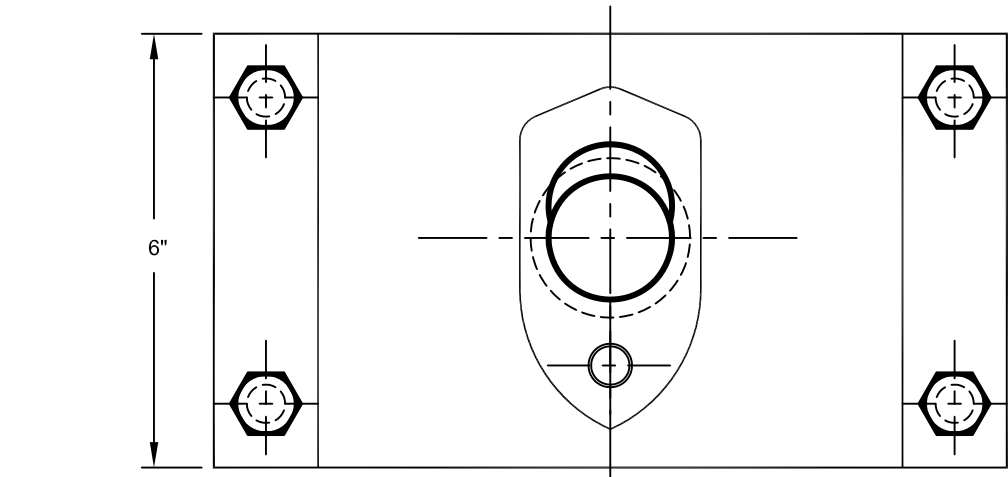
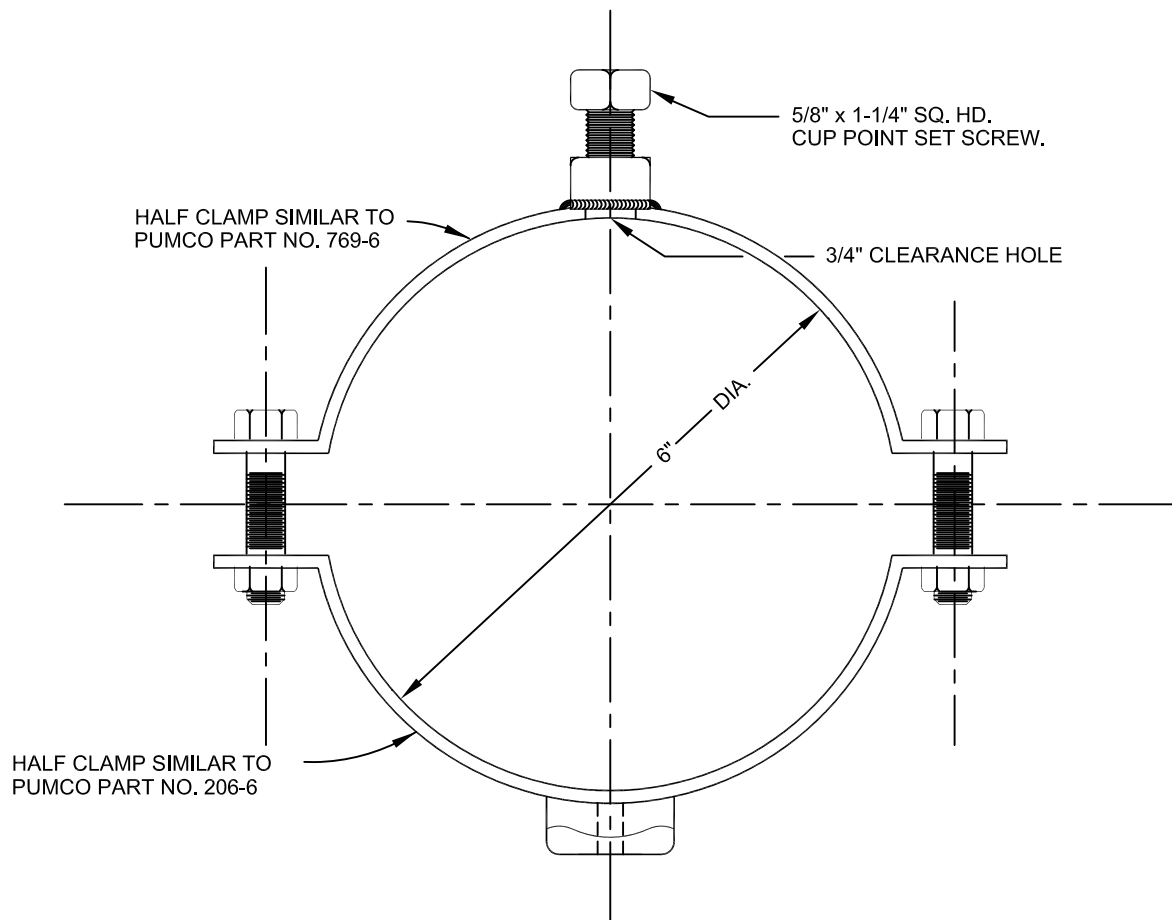
NOTES:

1. N, E, S, OR W REQUIRED ON ALL BLOCK NUMBER SIGNS WITH A SPACE BETWEEN THE LETTER AND THE NUMBERS. ( i.e. W 6900 )
2. STREET NAME SIGN WIRING TO RUN THROUGH TWO (2) SEAL-TITE 90° FITTINGS WITH LIQUID-TIGHT FLEXIBLE CONDUIT. USE A DRIP LOOP SUFFICIENT ENOUGH TO ALLOW SIGN TO SWING FREELY.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

BLOCK NUMBER SIGN

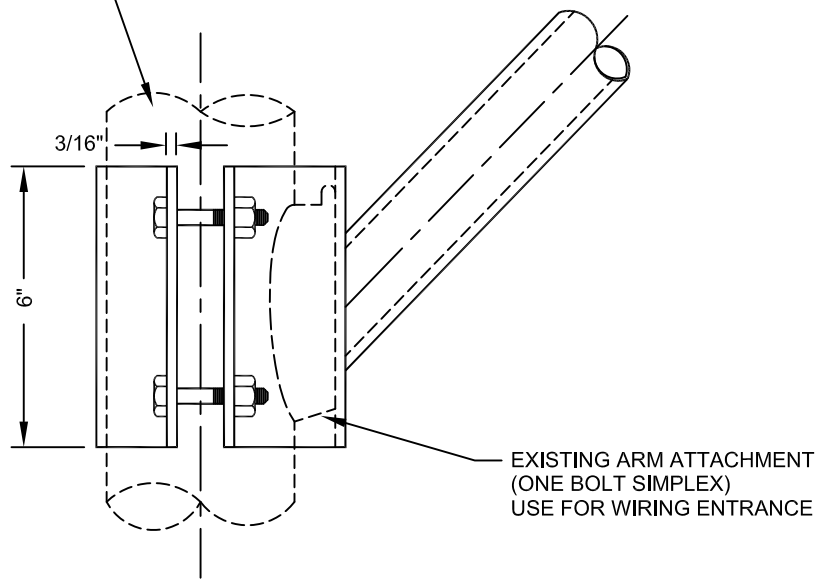
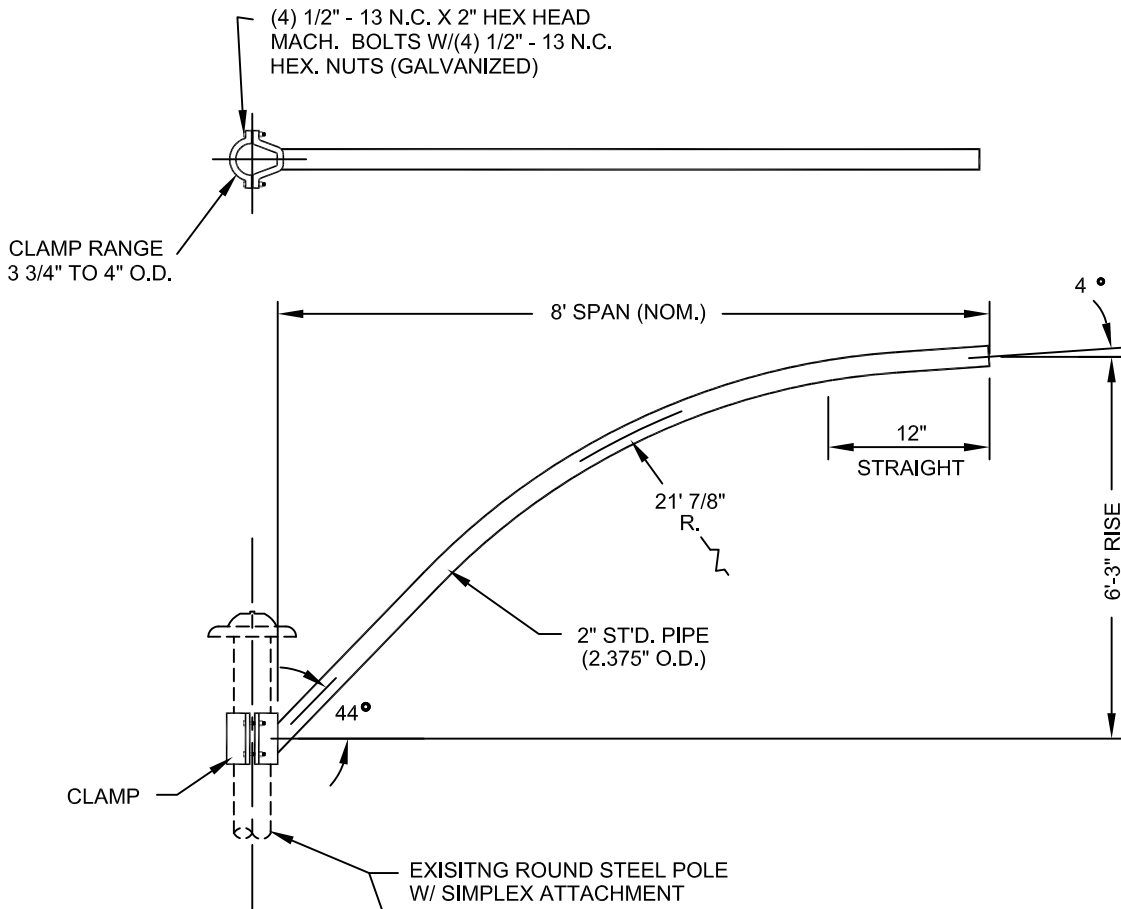


**NOTES:**

1. COMPLETE ASSEMBLY SHALL BE HOT-DIP GALVANIZED OR PRIME-PAINTED AS REQUIRED BY THE ENTITY.
2. COMPLETE ASSEMBLY SIMILAR TO PUMCO PART NO. 207-769-6.
3. THIS ASSEMBLY TO BE USED ON EXISTING 30' POLES ONLY.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA					
		ONE BOLT SIMPLEX ARM ATTACHMENT CLAMP ASSEMBLY					
		DATE	12-12-96	DWG. NO.	404.502	SHEET	1 OF 1

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



**BRACKET RATING**  
 MAX. LUMINAIRE AREA = 2.7<sup>2</sup> FT  
 MAX. LUMINAIRE WT. = 57 LBS.

SPECIFICATION REFERENCE

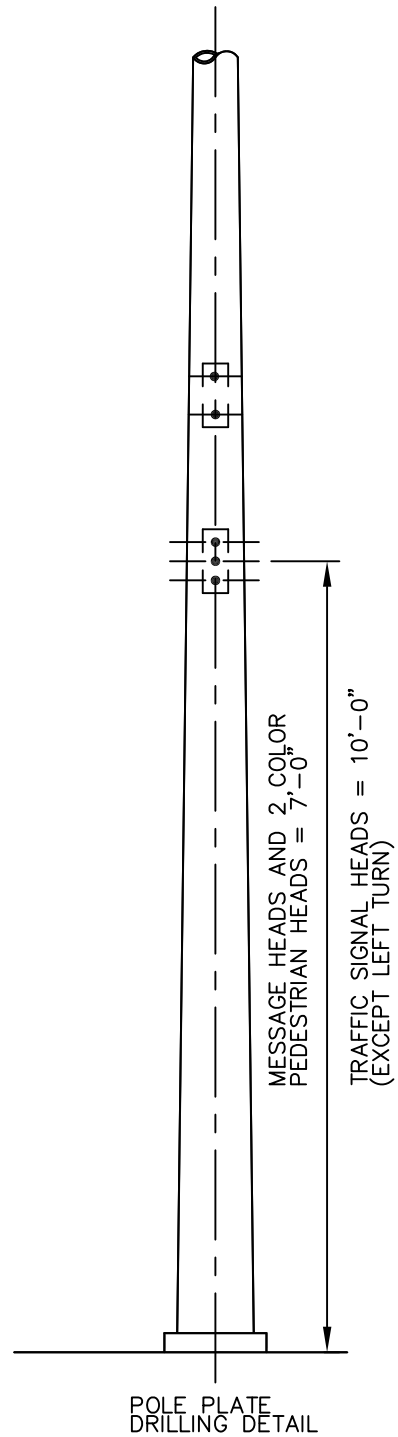
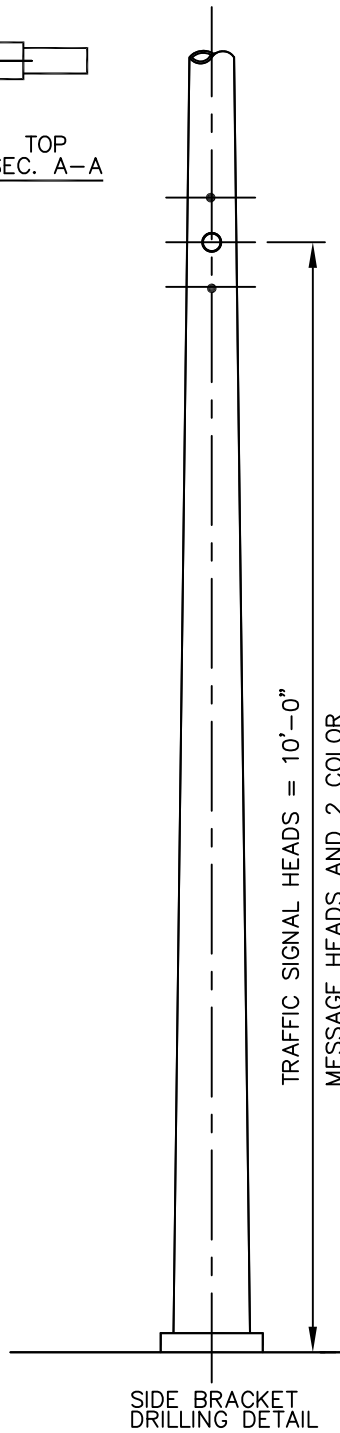
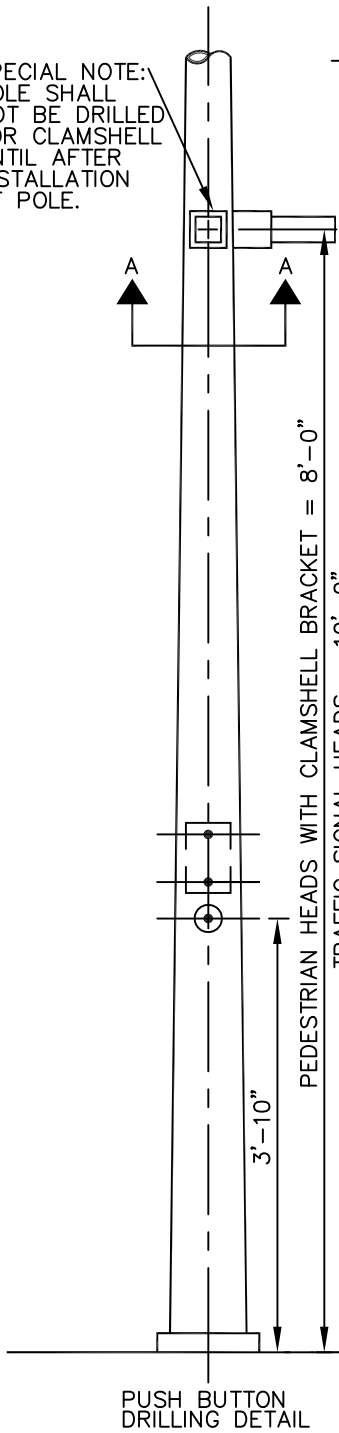
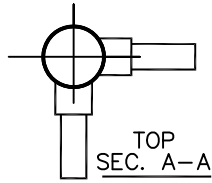
UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

RETROFIT STREETLIGHT  
 MAST ARM

DATE	DWG. NO.	404.503	SHEET	1 OF 1
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(NO SCALE)

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

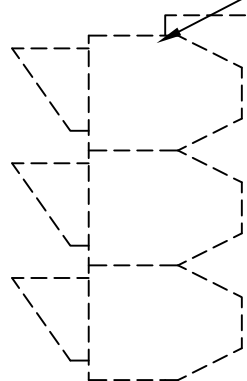
POLE DRILLING  
DETAILS

DATE

DWG. NO. 404.600

SHEET 1 OF 1

SIGNAL ASSEMBLY A-10T

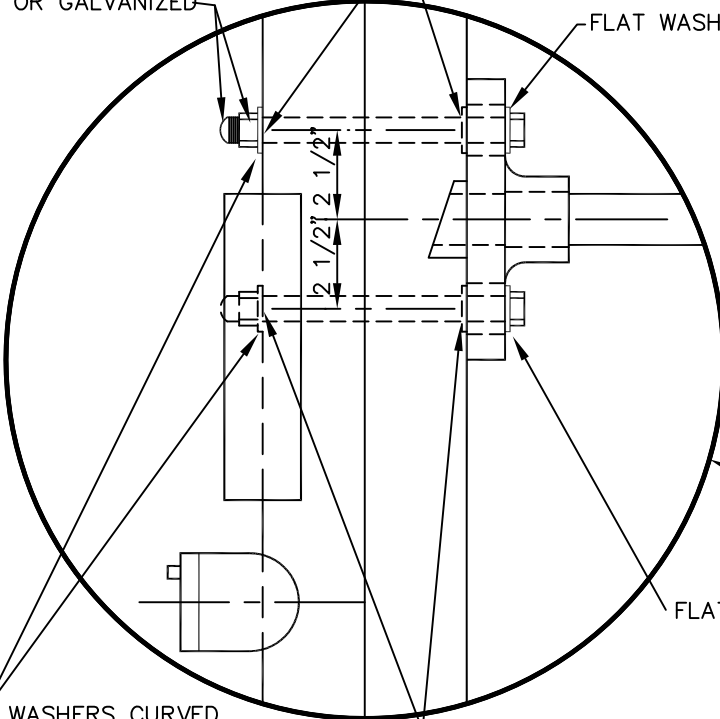


1/2" - 13 NC HEX. HEAD BOLT & NUT CADMIUM - PLATED OR GALVANIZED

DRILL 9/16" HOLES

FLAT WASHER

SIGNAL ASSEMBLY B-10



2 1/2" 2 1/2"

FLAT WASHER

DRILL 9/16" HOLES

WASHERS CURVED TO FIT STANDARD

TYPE 1-A STANDARD  
DRAWING NO. 404.402

3'-8"

4'-6"

10' MIN.  
TO NOSE  
OF ISLAND

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

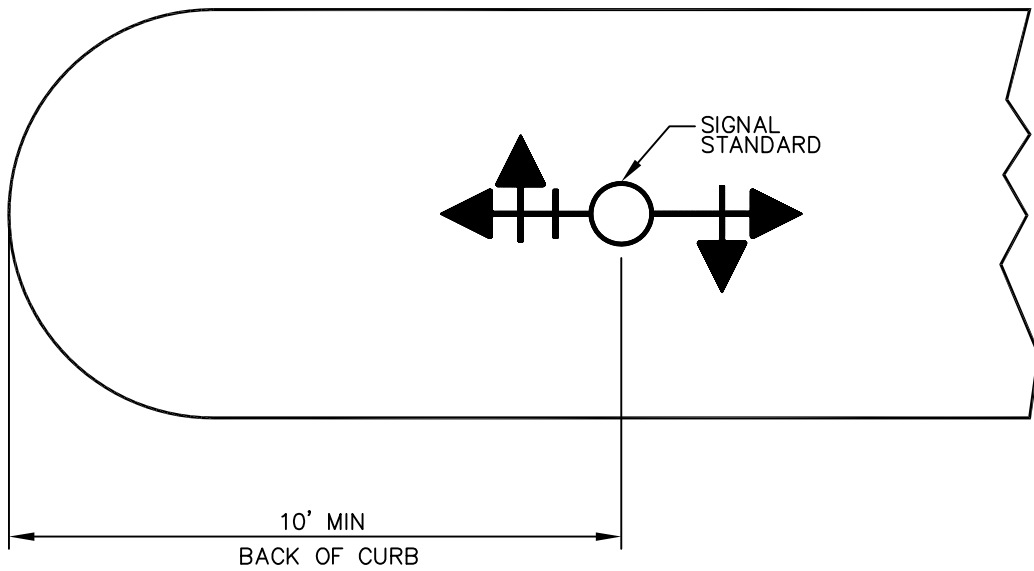
ISLAND SIGNAL POLE  
DETAILS FOR 10' POLE

DATE

DWG. NO. 404.601

SHEET 1 OF 1

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



NOTE:

FOR POLE LOCATION ON RIGHT TURN ISLAND SEE DRAWING NO. 404.1301.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

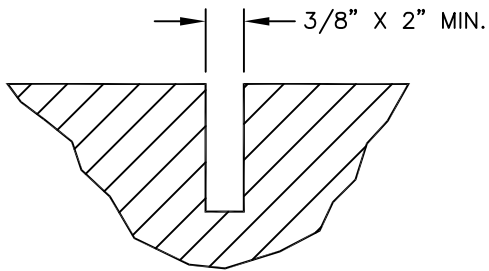
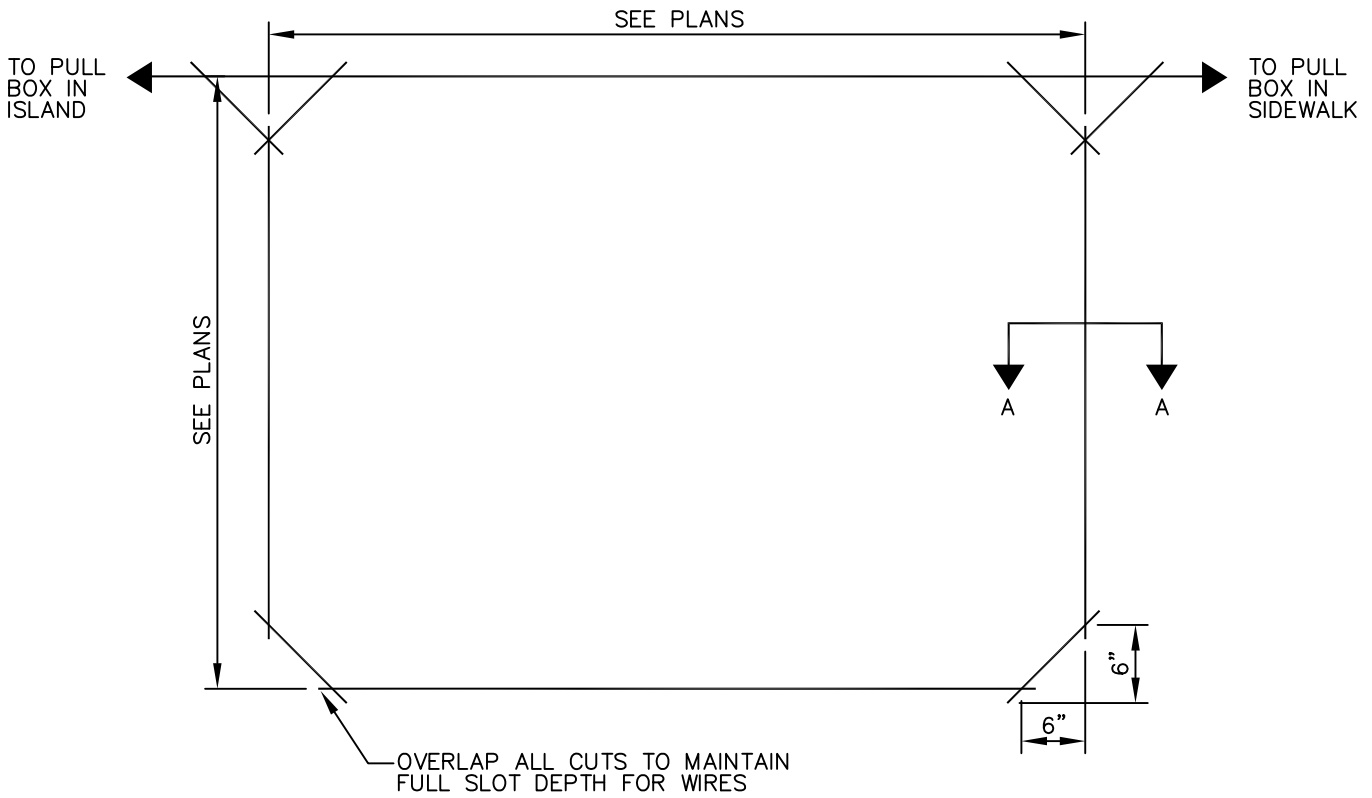
MEDIAN ISLAND  
SIGNAL LOCATION

DATE

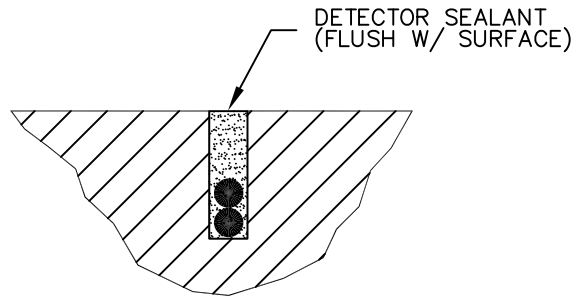
DWG. NO. 404.700

SHEET 1 OF 1

↑  
DIRECTION  
OF TRAVEL



A-A



A-A (AFTER INSTALLATION)

SPECIFICATION REFERENCE

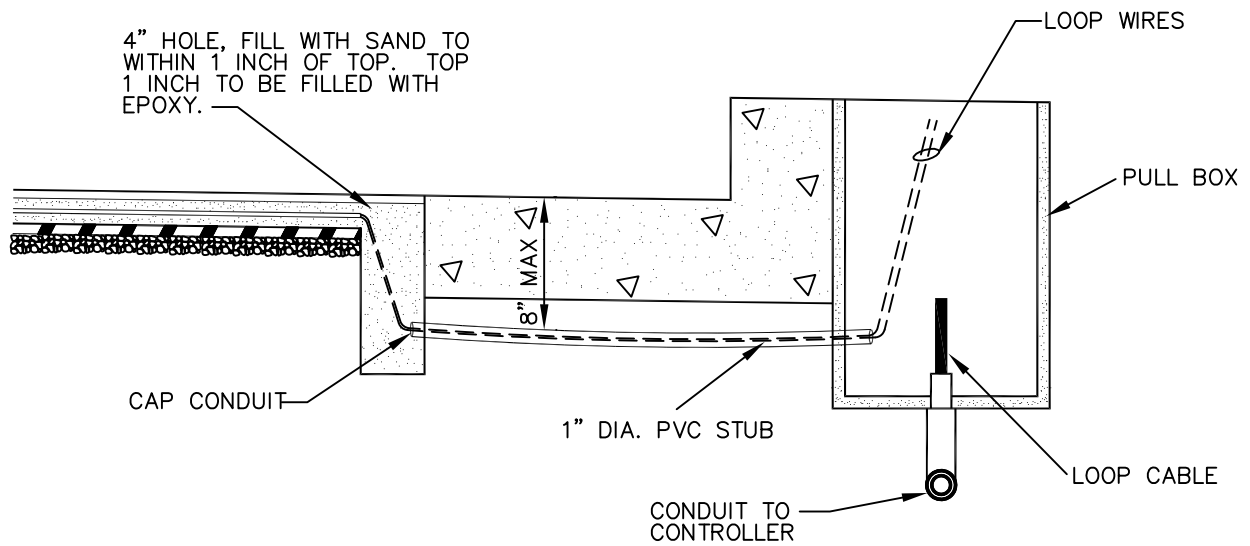
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SAWCUT DETAILS  
FOR INDUCTION LOOPS

DATE

DWG. NO. 404.810

SHEET 1 OF 1



NOTE:

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

\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

DETAILS @ PULL BOX  
AND SAWCUTS

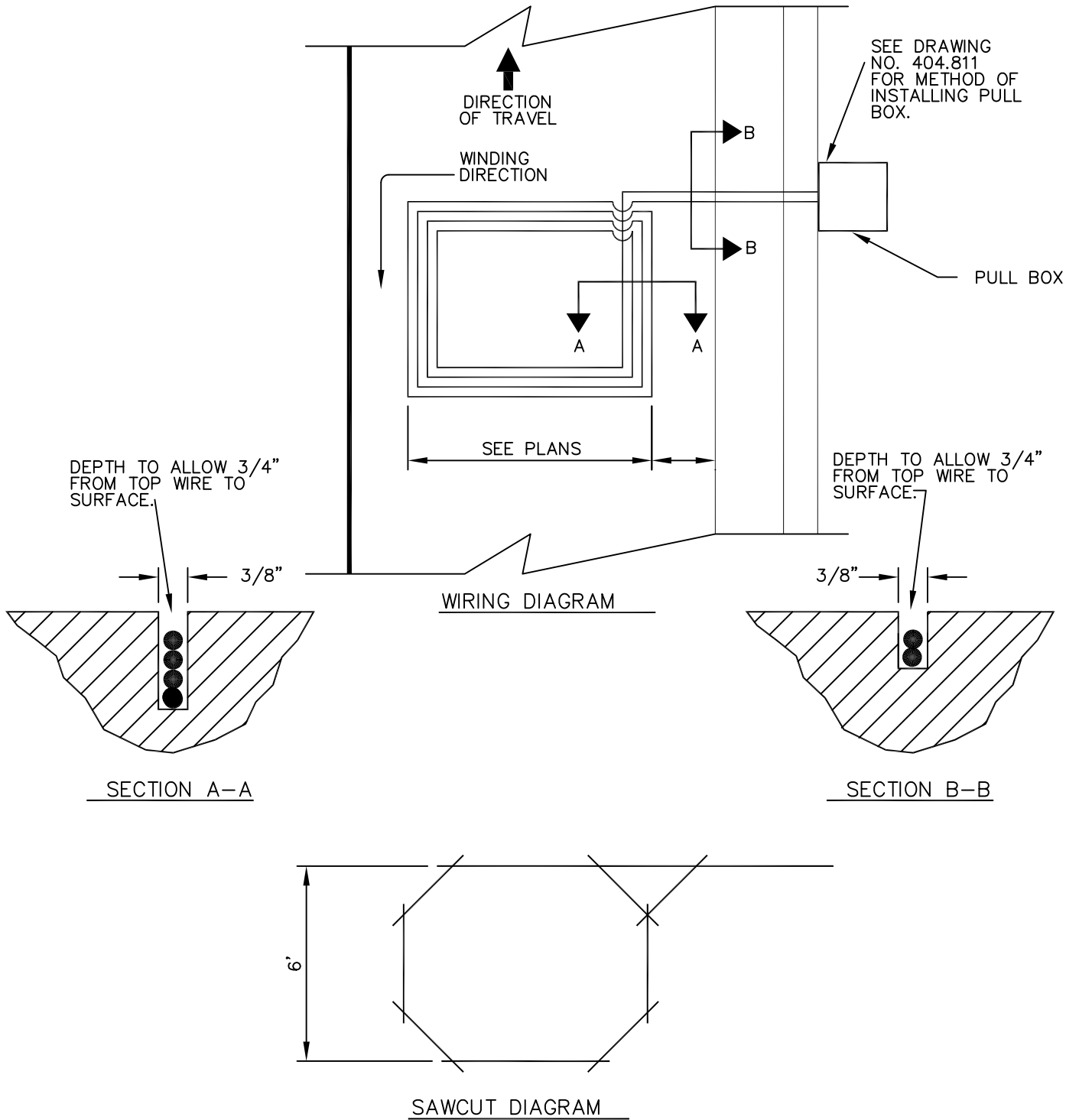
DATE

DWG. NO. 404.811

SHEET 1 OF 1

NOTE:

- 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. 404.810 FOR SAWCUT DETAILS.

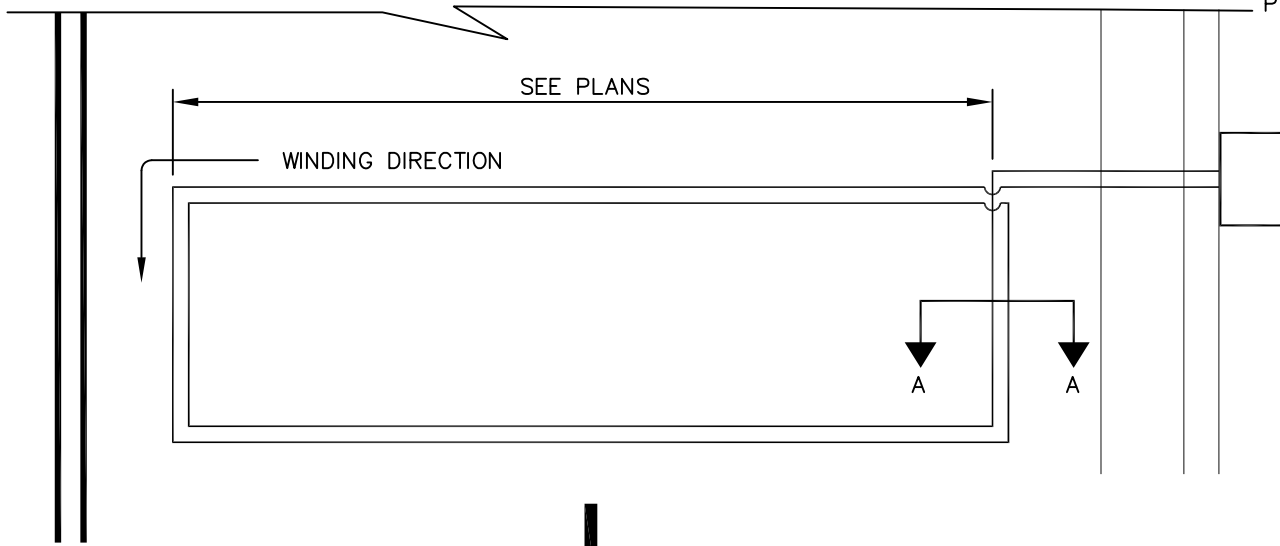
\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		1 INDUCTION LOOP FOR 1 TRAVEL LANE	
DATE	DWG. NO. 404.820	SHEET 1 OF 1	

NOTE:

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

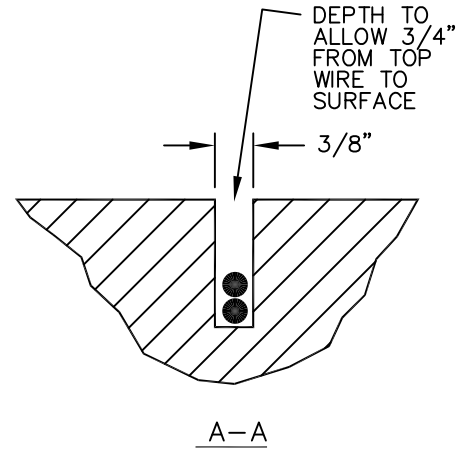
SEE DRAWING NO. 404.811 FOR METHOD OF INSTALLING PULL BOX



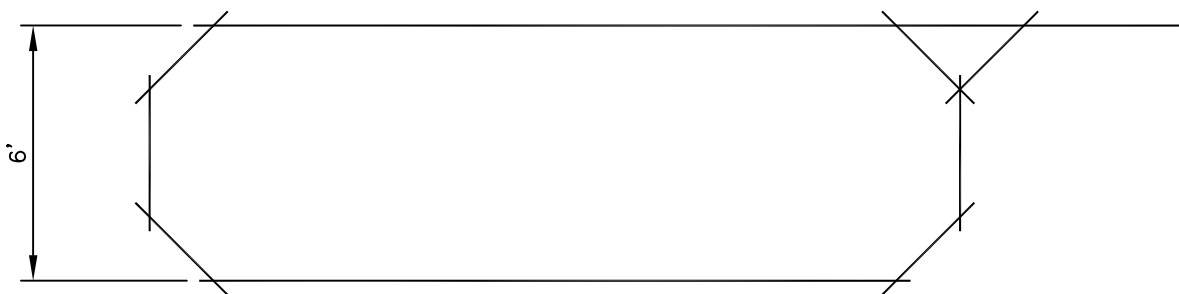
DIRECTION OF TRAVEL

DIRECTION OF TRAVEL

WIRING DIAGRAM



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

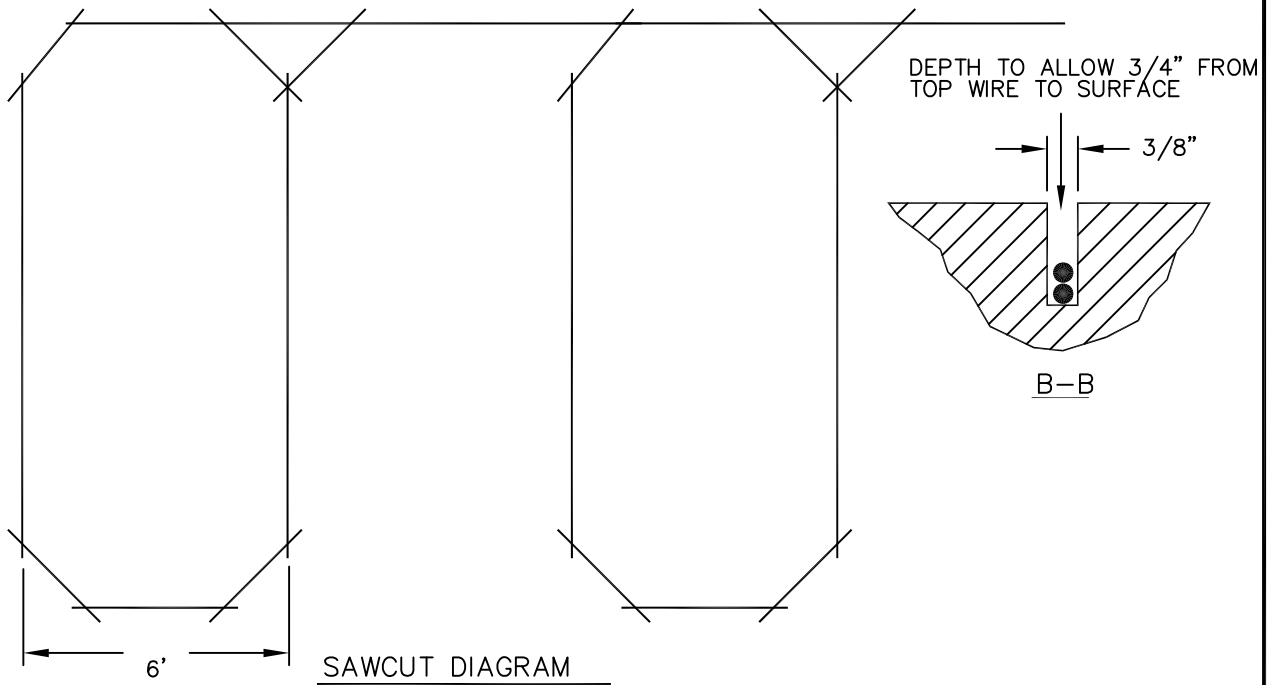
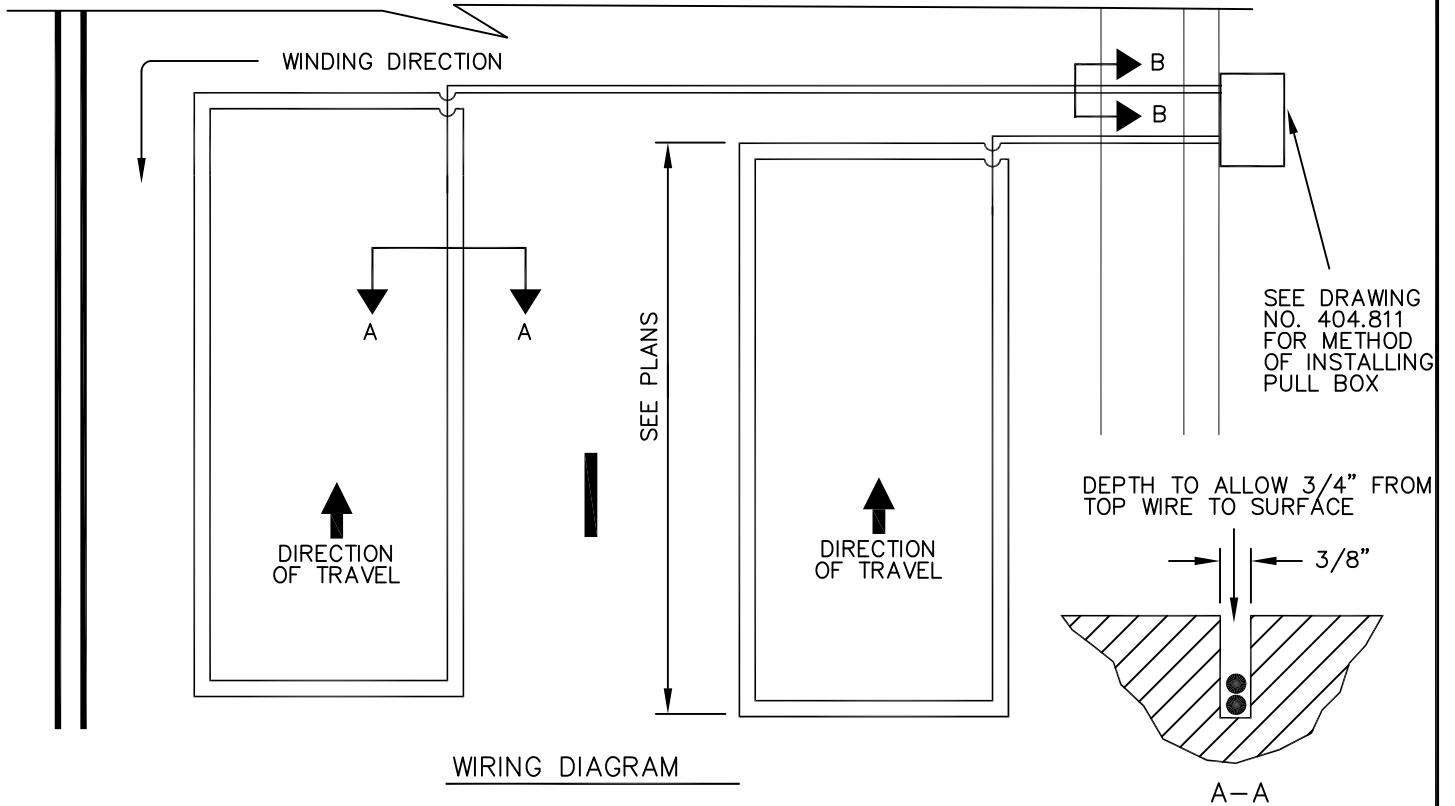
DATE

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.



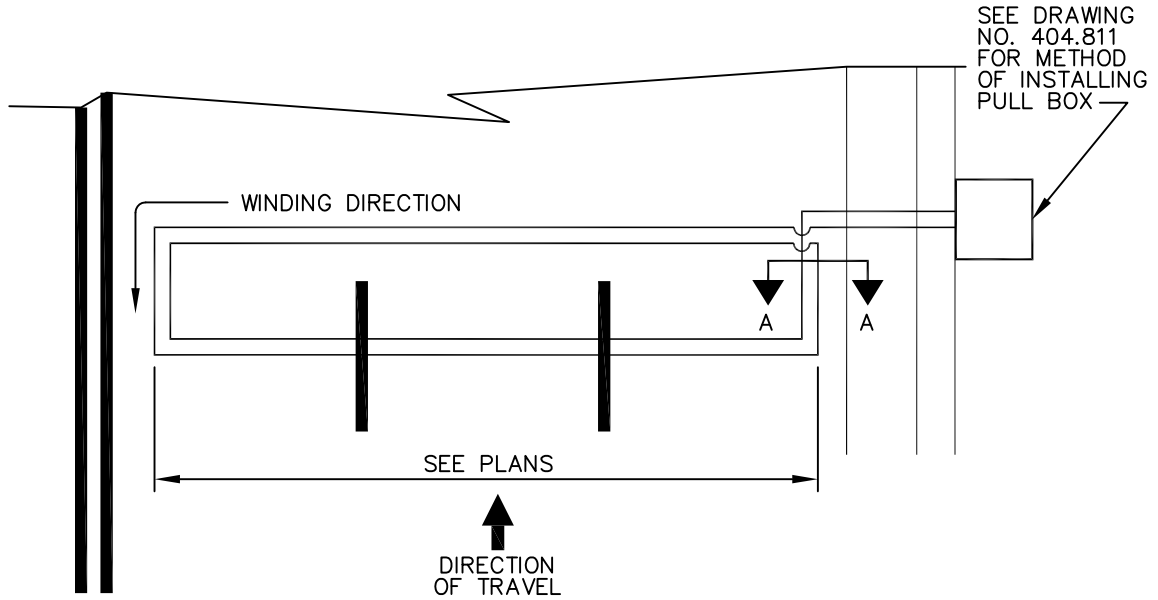
SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

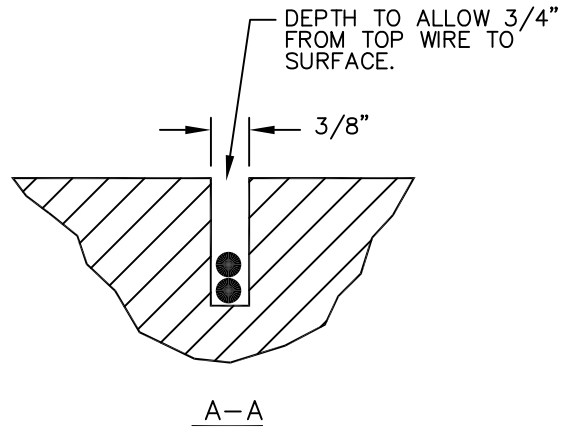
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		2 INDUCTION LOOPS FOR 2 TRAVEL LANES	
DATE	DWG. NO. 404.821	SHEET 2 OF 2	

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.



WIRING DIAGRAM



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 3 TRAVEL LANES

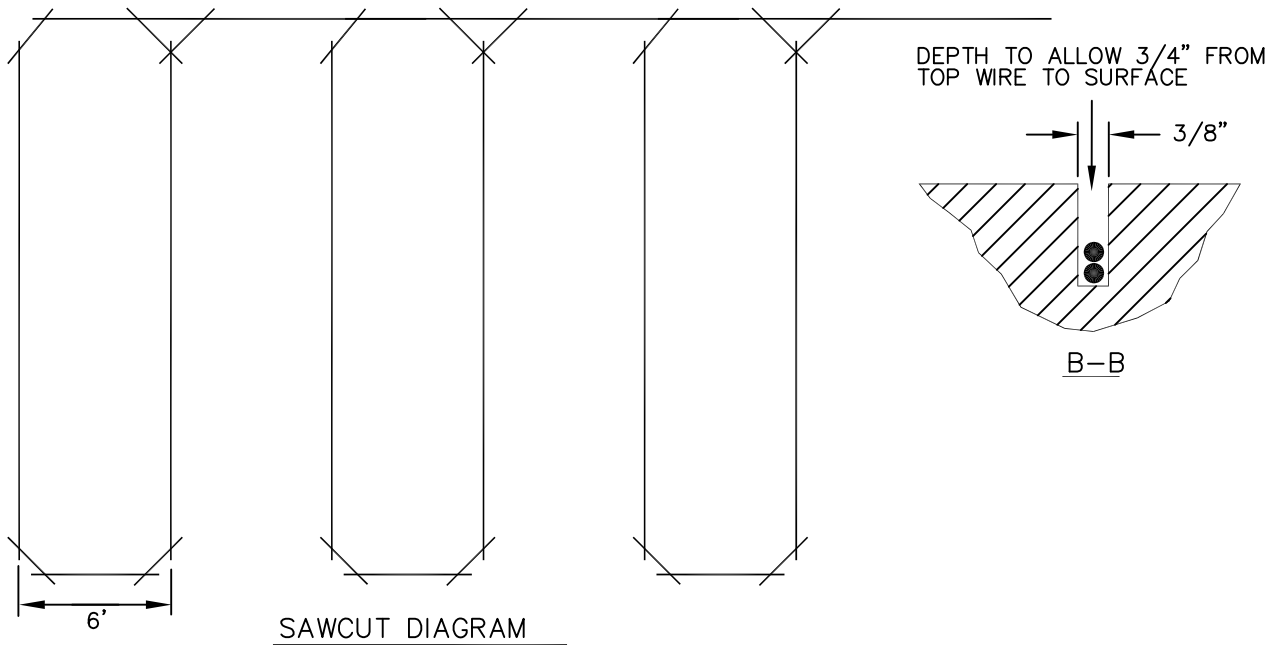
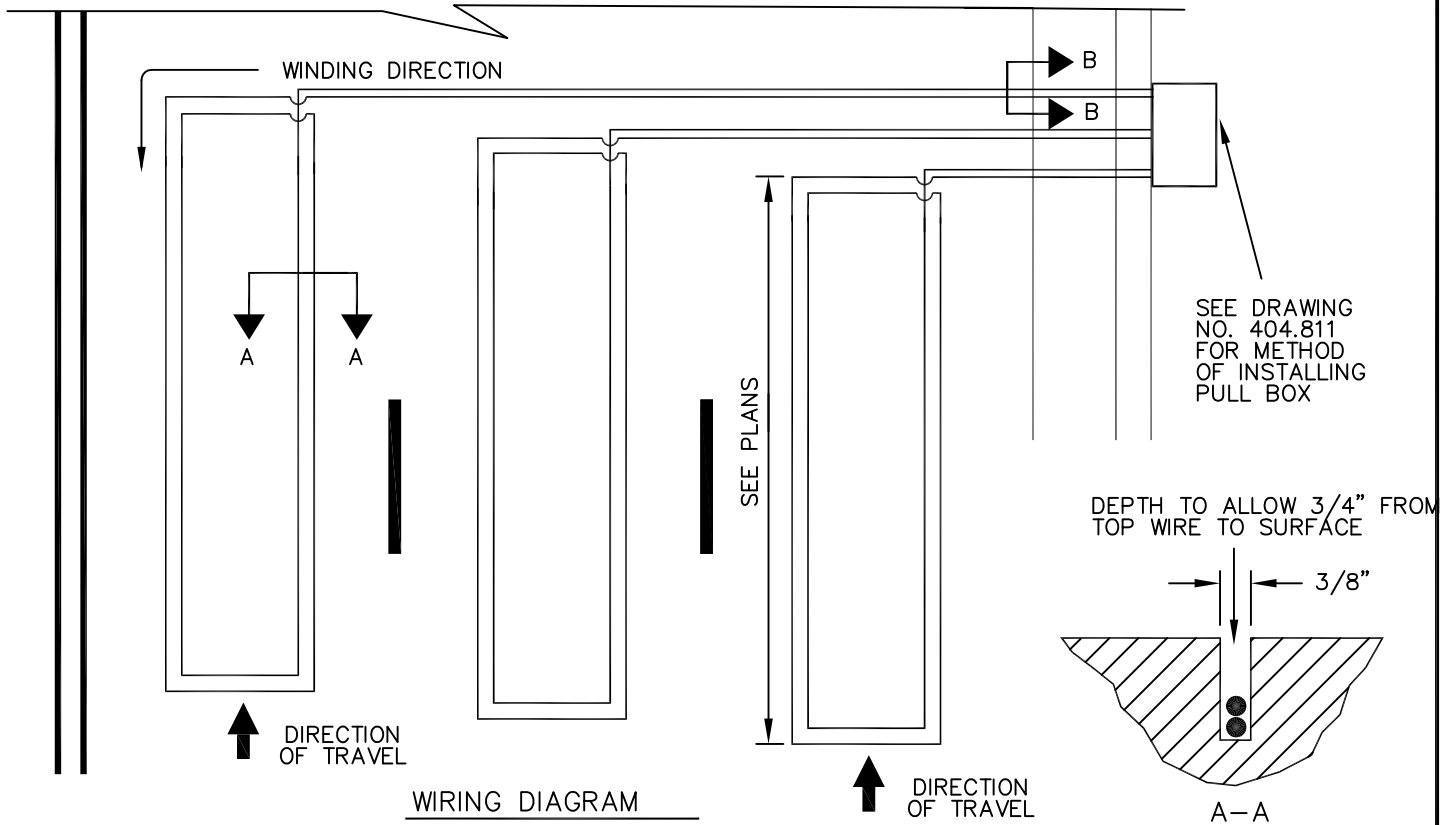
DATE

DWG. NO. 404.822

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.



SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

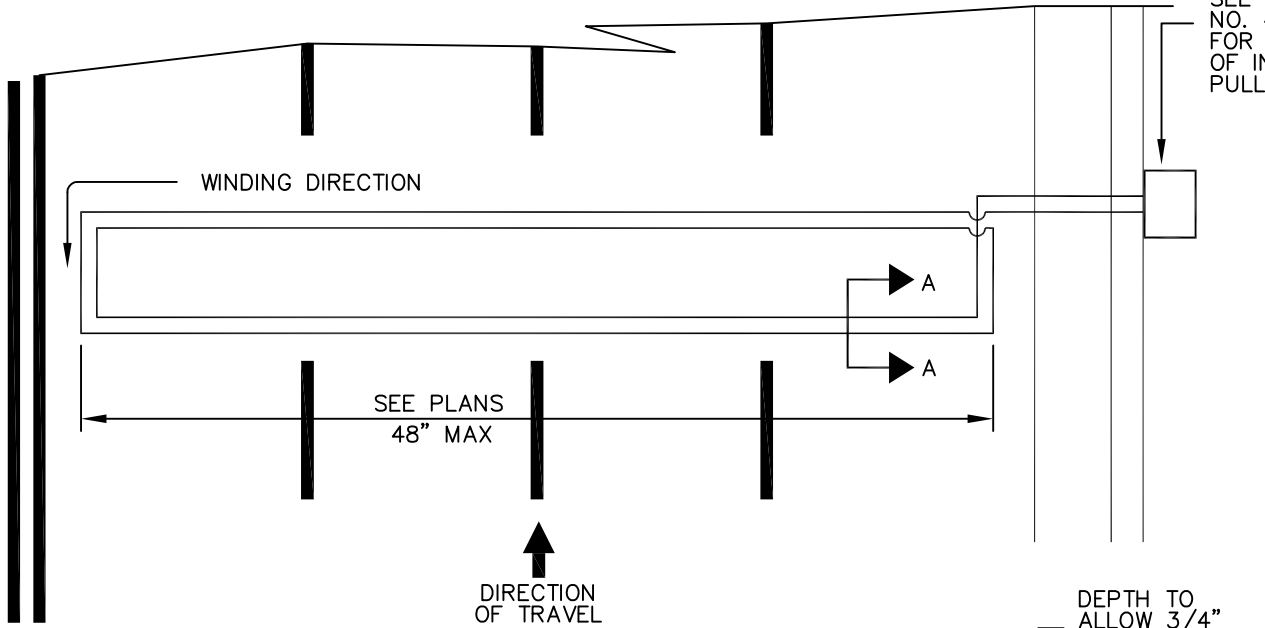
\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		3 INDUCTION LOOPS FOR 3 TRAVEL LANES	
DATE	DWG. NO. 404.822	SHEET 2 OF 2	

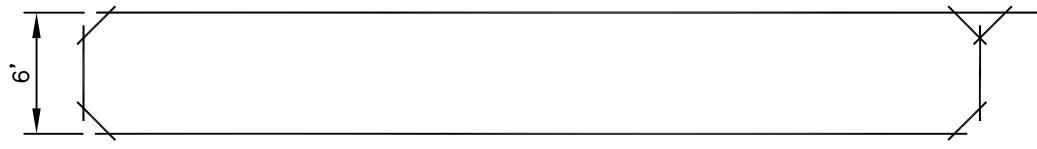
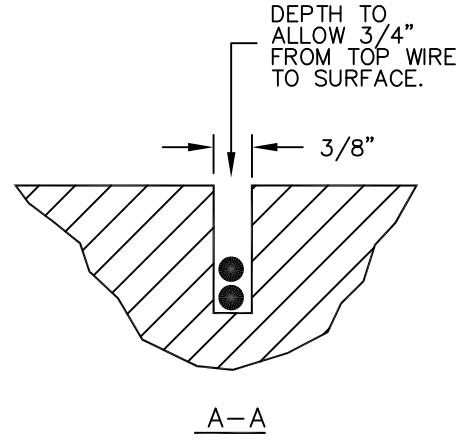
NOTE:

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

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



WIRING DIAGRAM



SAWCUT DIAGRAM

SEE DRAWING NO. 404.810 FOR SAWCUT DETAILS.

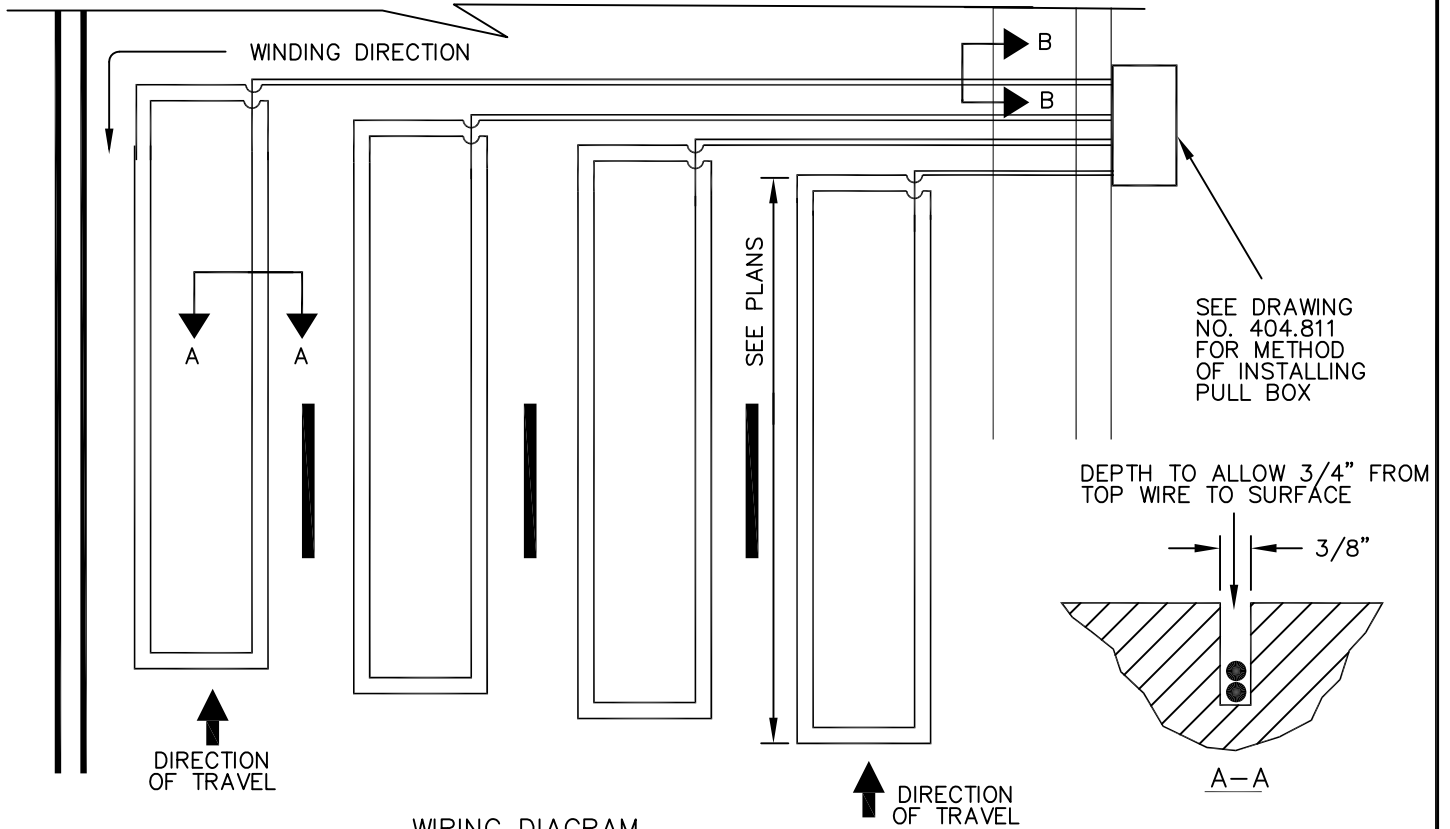
\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

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

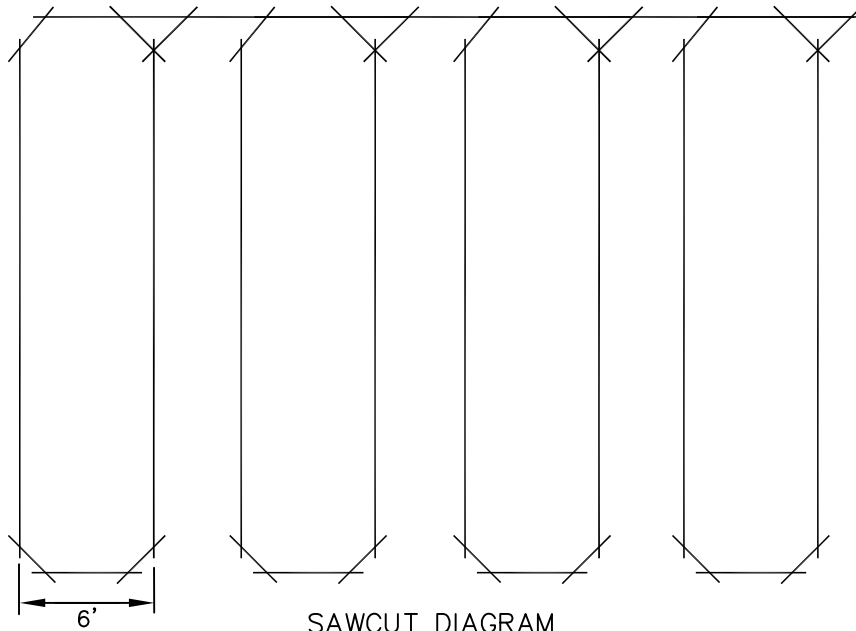
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
		1 INDUCTION LOOP FOR 4 TRAVEL LANES		
		DATE	DWG. NO. 404.823	SHEET 1 OF 2

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

4 INDUCTION LOOPS  
FOR 4 TRAVEL LANES

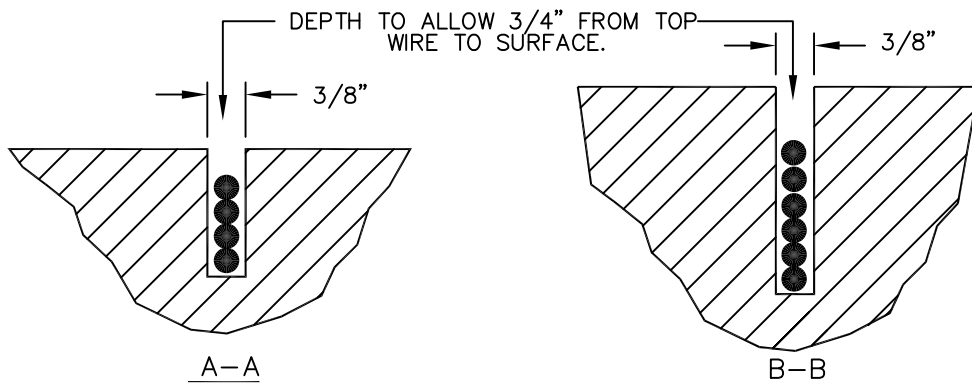
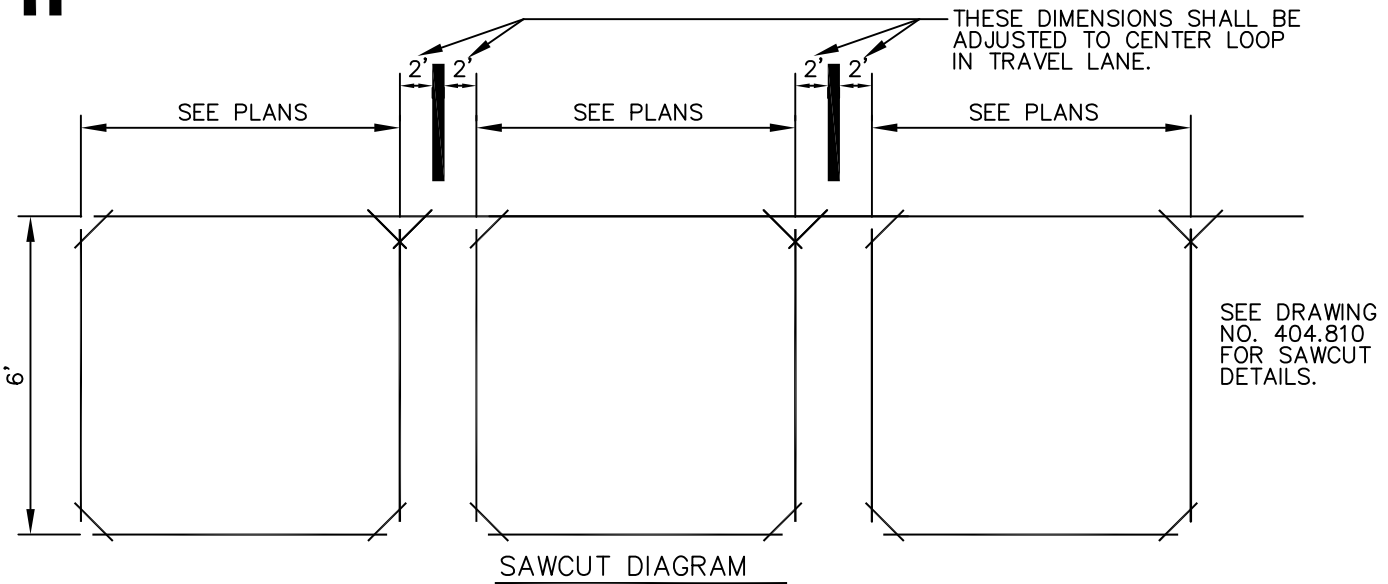
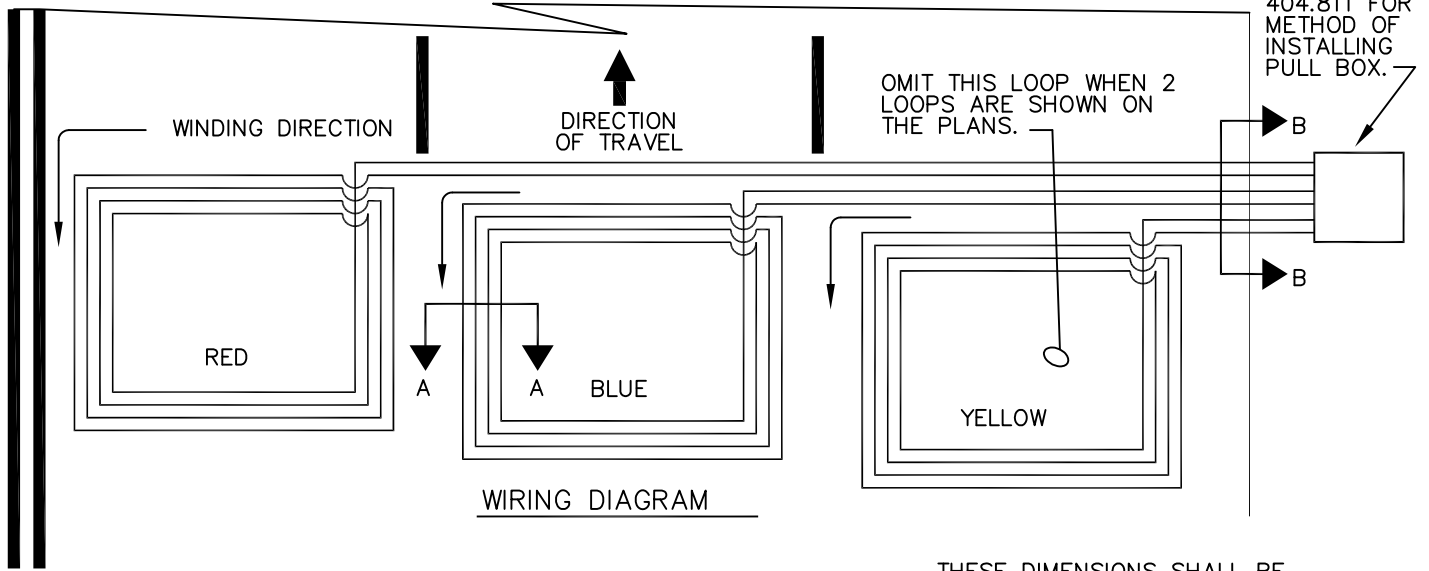
DATE

DWG. NO. 404.823

SHEET 2 OF 2

NOTES:

1. 4 TURNS OF WIRE SHOWN. ALWAYS INSTALL 4 TURNS OF CABLE IN DUCT UNLESS OTHERWISE SPECIFIED ON THE PLANS. WINDING DIRECTION SHALL BE INDICATED ON WIRE.
2. TRAFFIC ENGINEER SHALL ESTABLISH LATERAL LOCATIONS ON ROADS WITHOUT MARKED LANES.



\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

3 INDUCTION LOOPS  
FOR 3 TRAVEL LANES

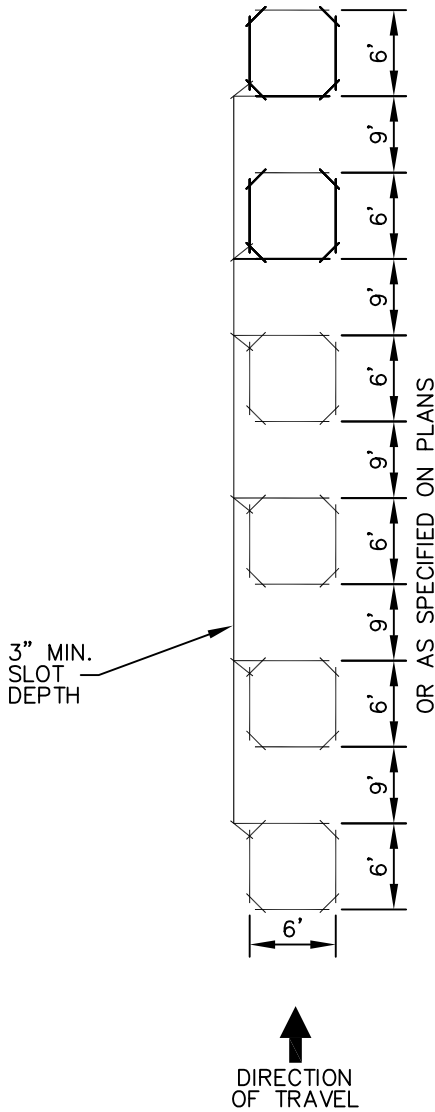
DATE

DWG. NO. 404.825

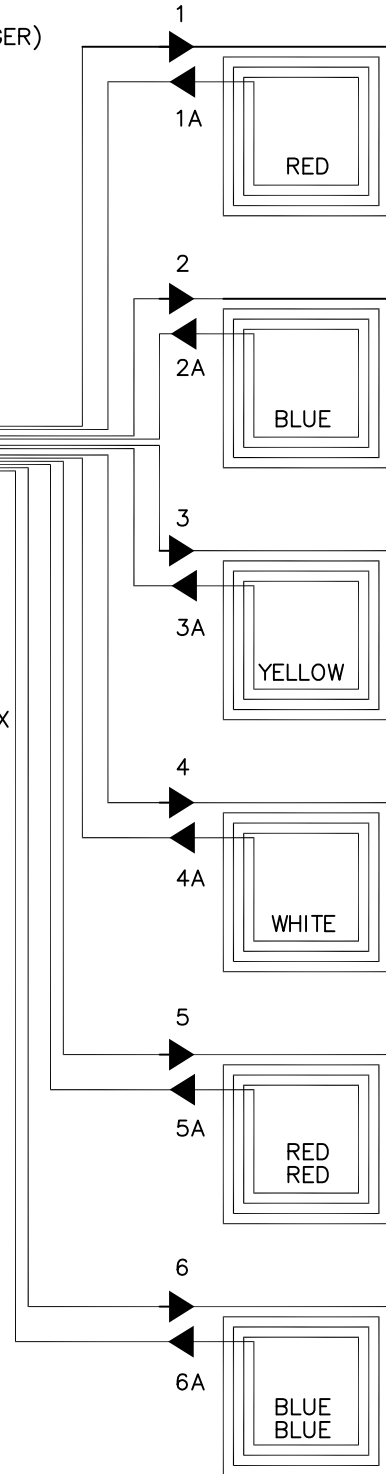
SHEET 1 OF 1

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.



WIRING DIAGRAM

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

\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

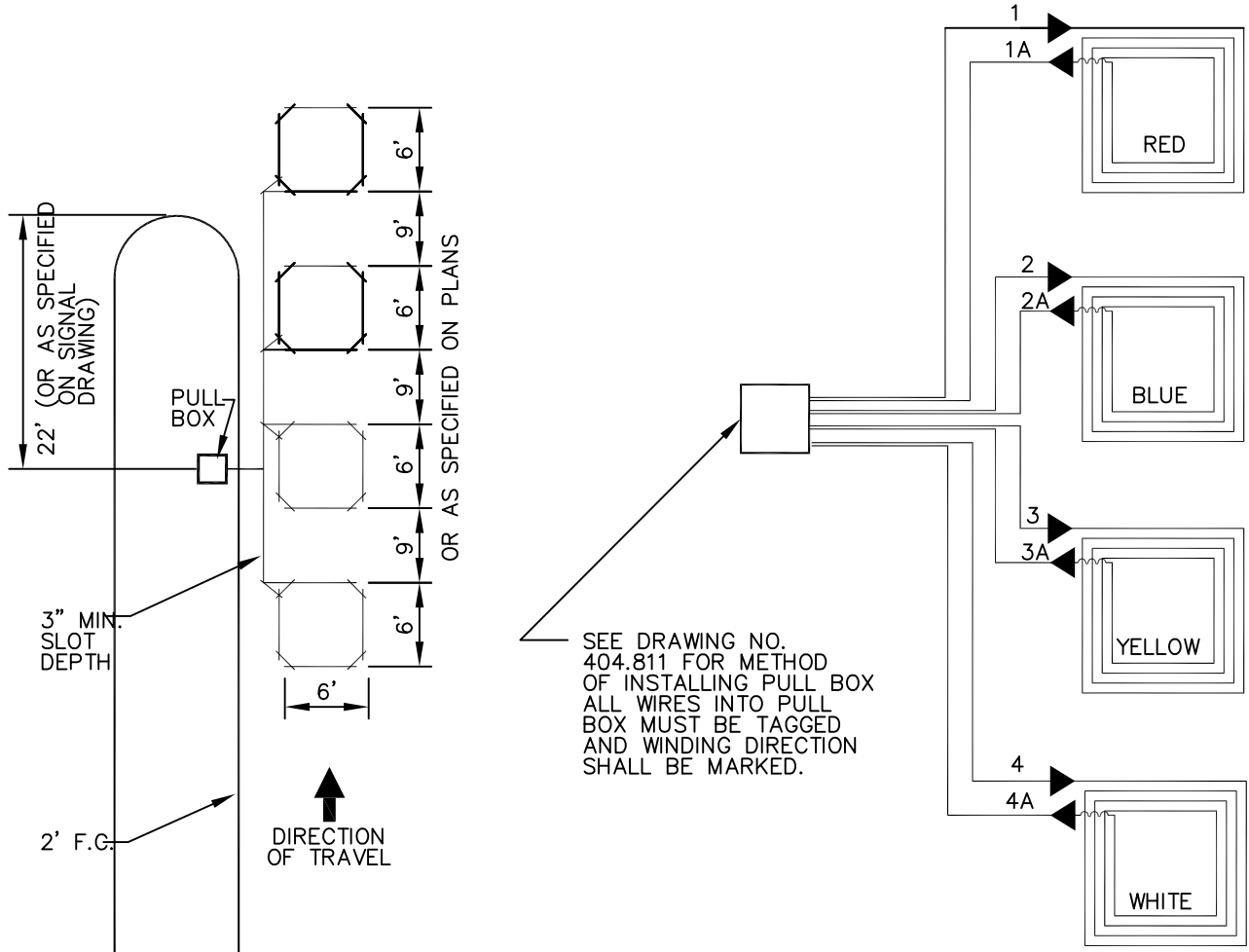
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

MULTIPLE LOOP SYSTEM FOR  
THRU LANE

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.



WIRING DIAGRAM

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

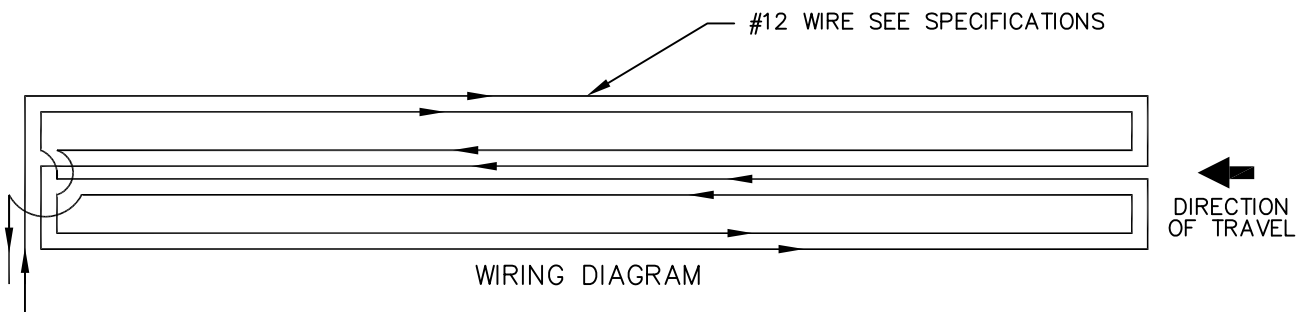
MUTIPLE LOOP SYSTEM FOR  
LEFT TURN POCKET

DATE

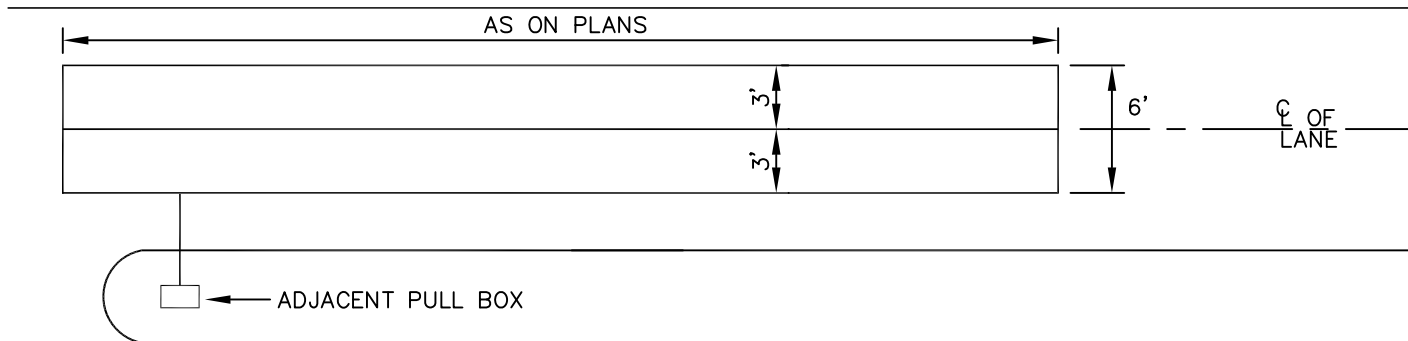
DWG. NO. 404.827

SHEET 1 OF 1

TYPE "QUADRUPOLE" LOOP INSTALLATION



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



NOTES:

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

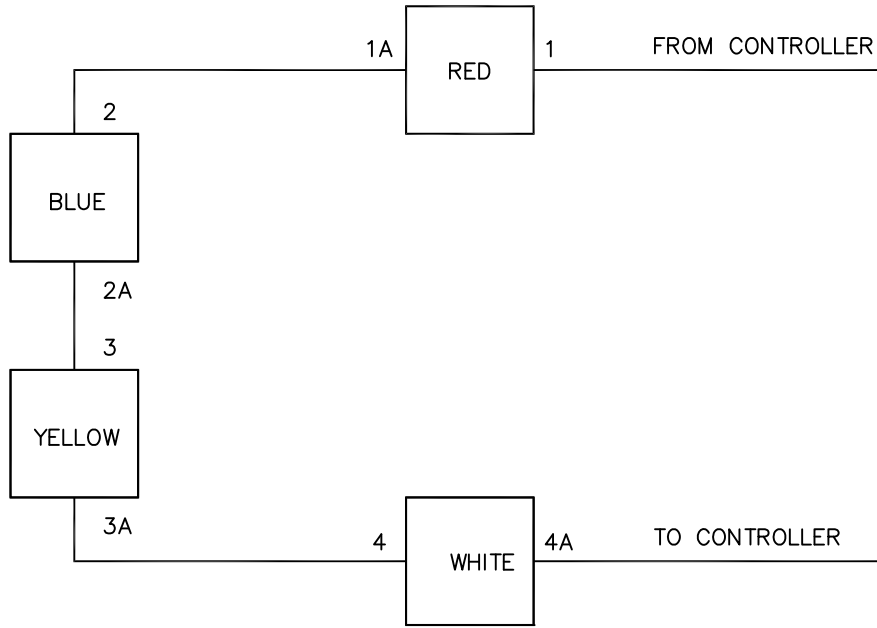
TYPE "QUADRUPOLE"  
LOOP INSTALLATION

DATE

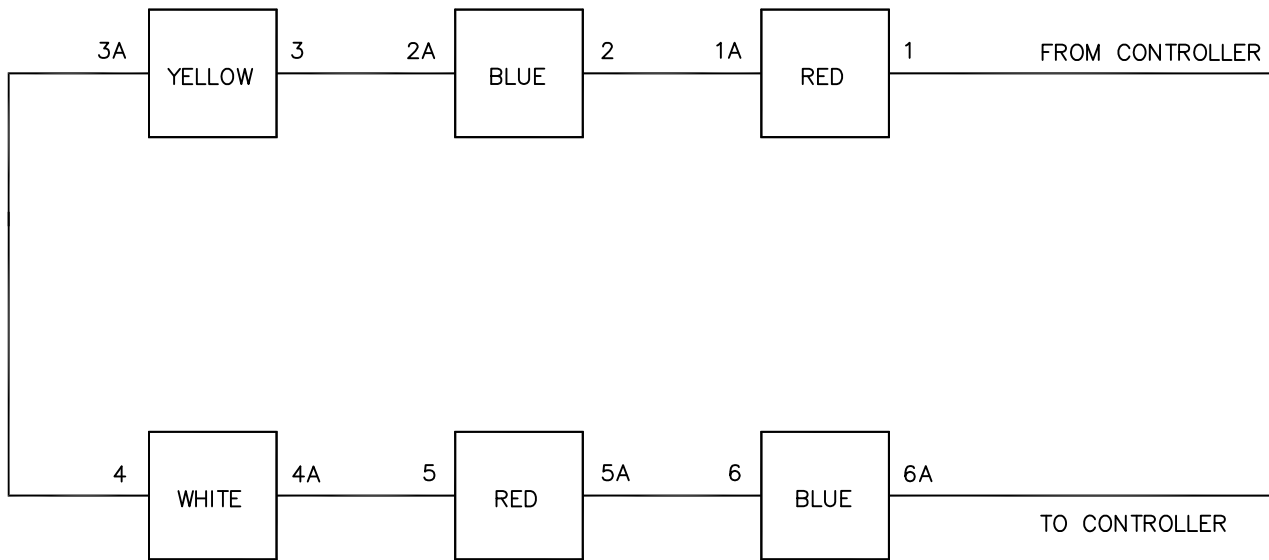
DWG. NO. 404.828

SHEET 1 OF 1

SEE DRAWING NO. 404.827 FOR LOOP LAYOUT.



SEE DRAWING NO. 404.826 FOR LOOP LAYOUT.



\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

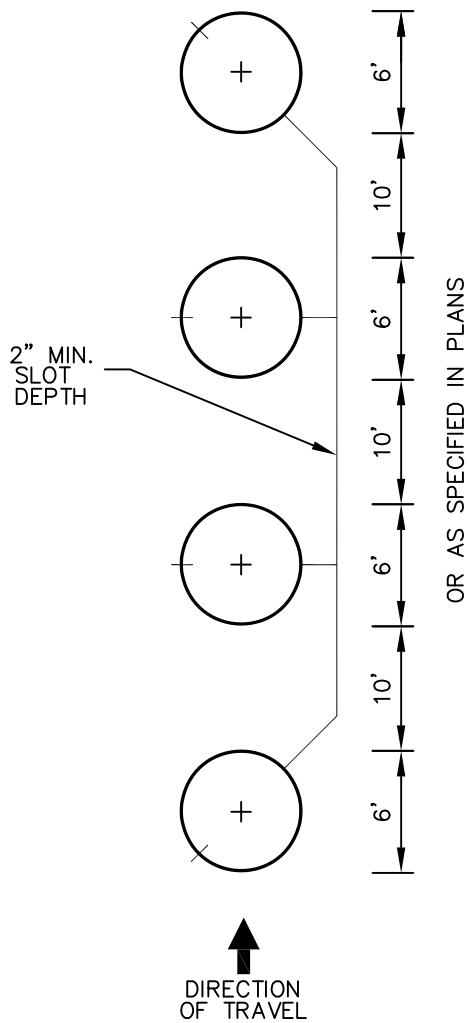
WIRE DIAGRAMS FOR MULTIPLE  
LOOP SYSTEMS FOR LEFT TURN  
POCKET AND THRU LANE

DATE 12-12-96 | DWG. NO. 404.829 | SHEET 1 OF 1

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

NOTES:

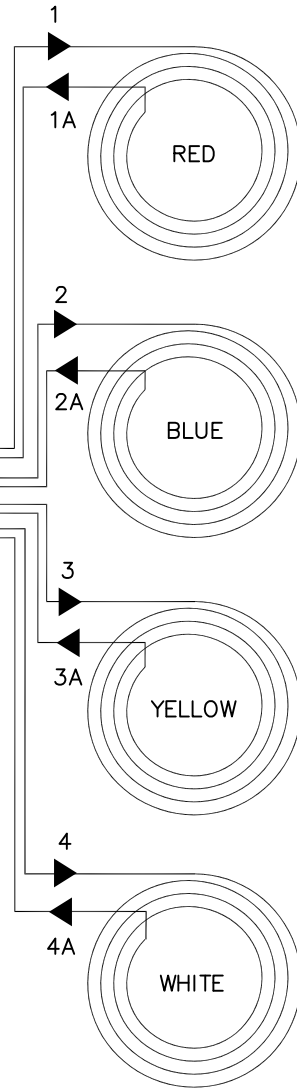
1. INSULATION FOR EACH LOOP MUST NOT READ LESS THAN 50 MEG OHMS TO INFINITY. (USING MEGGER)
2. USE COLOR CODED 4 TURN CABLE IN DUCT AS SHOWN.
3. FRONT OF LOOP MUST EXTEND IN THE CROSSWALK 2' TO 4'.



SAWCUT DIAGRAM

OR AS SPECIFIED IN PLANS

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.



WIRING DIAGRAM

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

CIRCULAR INDUCTION LOOPS  
FOR TRAVEL LANES

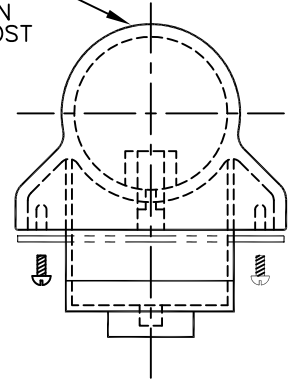
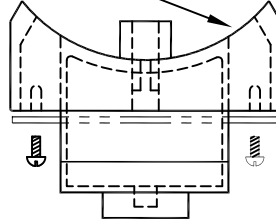
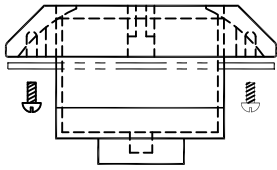
DATE

DWG. NO. 404.830

SHEET 1 OF 1

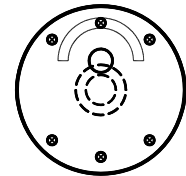
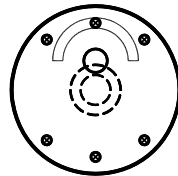
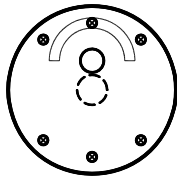
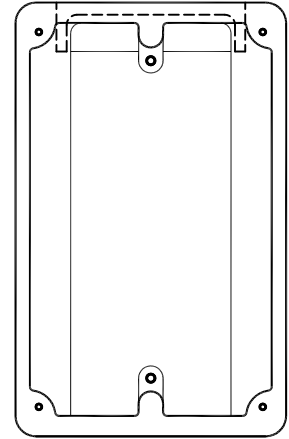
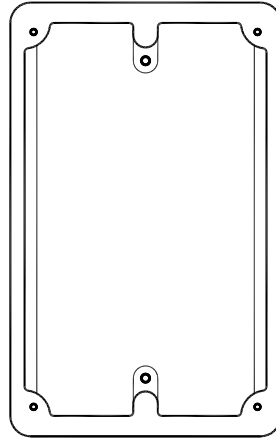
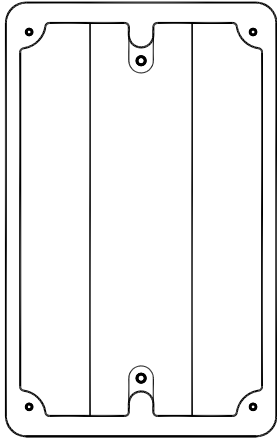
MACHINE OFF CAP FOR  
8'-6" PEDESTRIAN  
PUSH BUTTON POST

DIA. TO FIT  
STANDARD



NOTES:

1. CAST ALUMINUM HOUSING.
2. PAINT COLOR SHALL MATCH SIGNAL HOUSING.



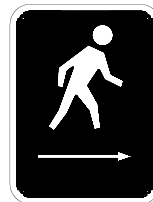
FOR FLAT SURFACE  
MOUNTING

FOR SIGNAL  
STANDARD MOUNTING

FOR 2-1/2" IPS  
MOUNTING

NOTES:

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



SPECIFICATION REFERENCE

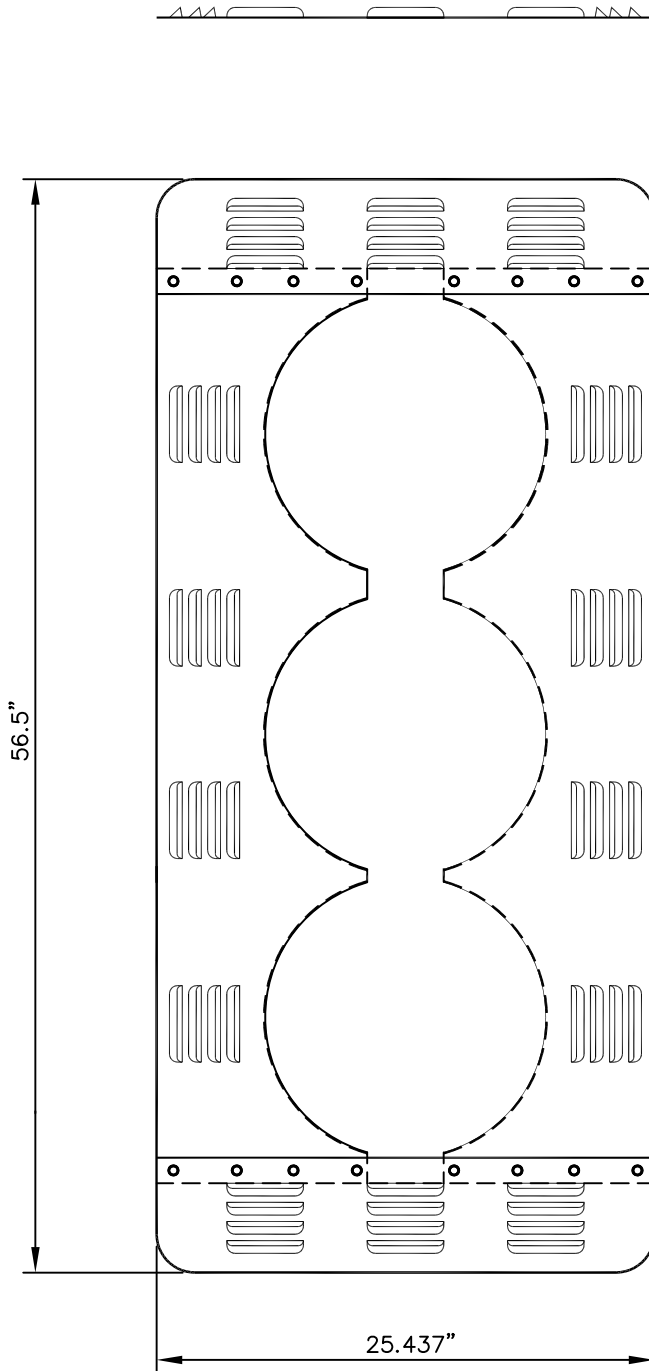
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

PEDESTRIAN PUSH BUTTON  
DETECTORS

DATE

DWG. NO. 404.851

SHEET 1 OF 1



PAINT: FLAT BLACK

SHOWN 3 SECTION, 12" SIGNAL HEAD WITH ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

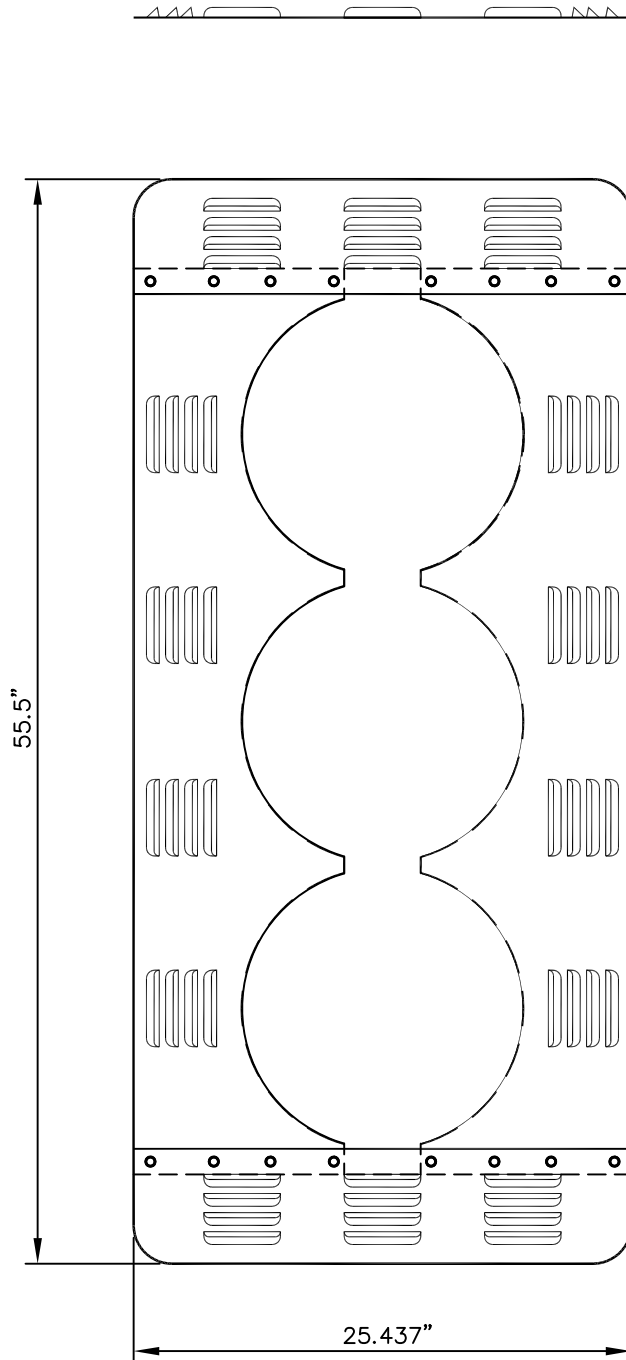
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

LOUVERED BACKPLATE FOR  
MAST ARM MOUNTED SIGNAL

DATE

DWG. NO. 404.900

SHEET 1 OF 1



PAINT: FLAT BLACK

SHOWN 3 SECTION, 12" SIGNAL HEAD BACKPLATE WITHOUT ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

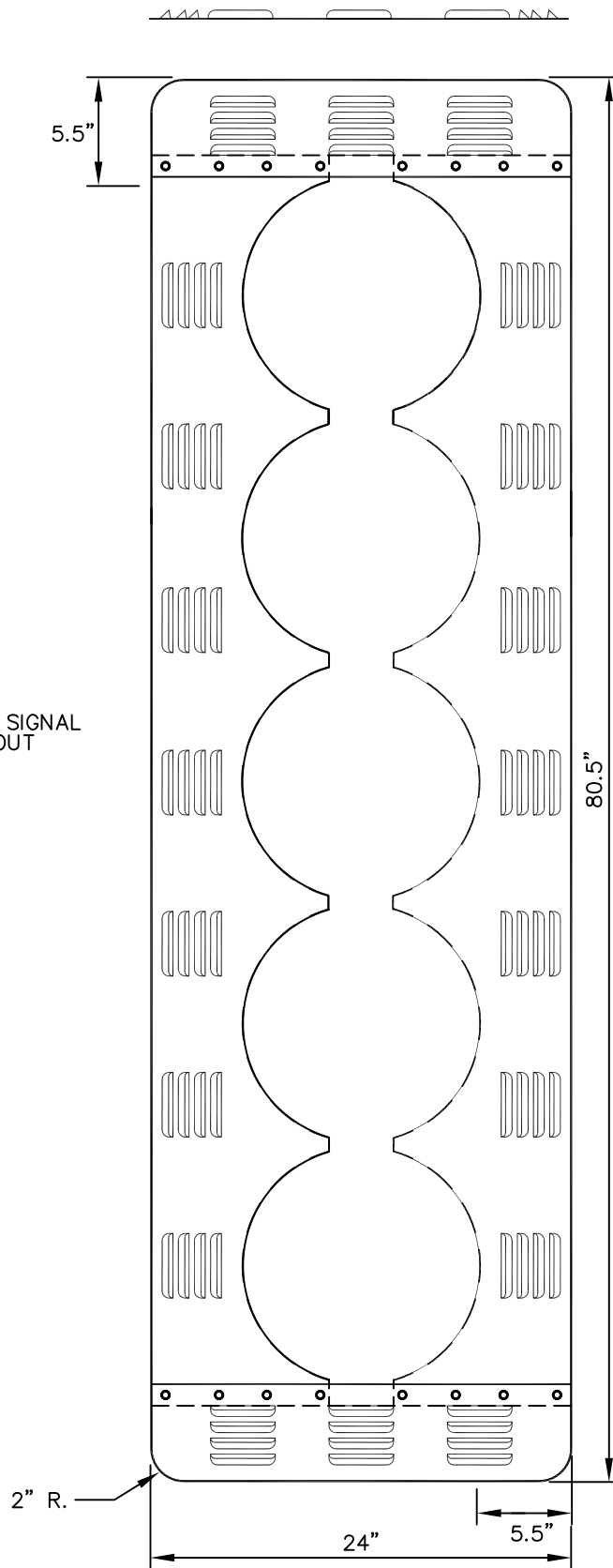
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

LOUVERED BACKPLATE FOR  
POLE MOUNTED SIGNAL

DATE

DWG. NO. 404.901

SHEET 1 OF 1



PAINT: FLAT BLACK  
 SHOWN 5 SECTION, 12" SIGNAL  
 HEAD BACKPLATE WITHOUT  
 ELEVATOR PLUMBIZER

SPECIFICATION REFERENCE

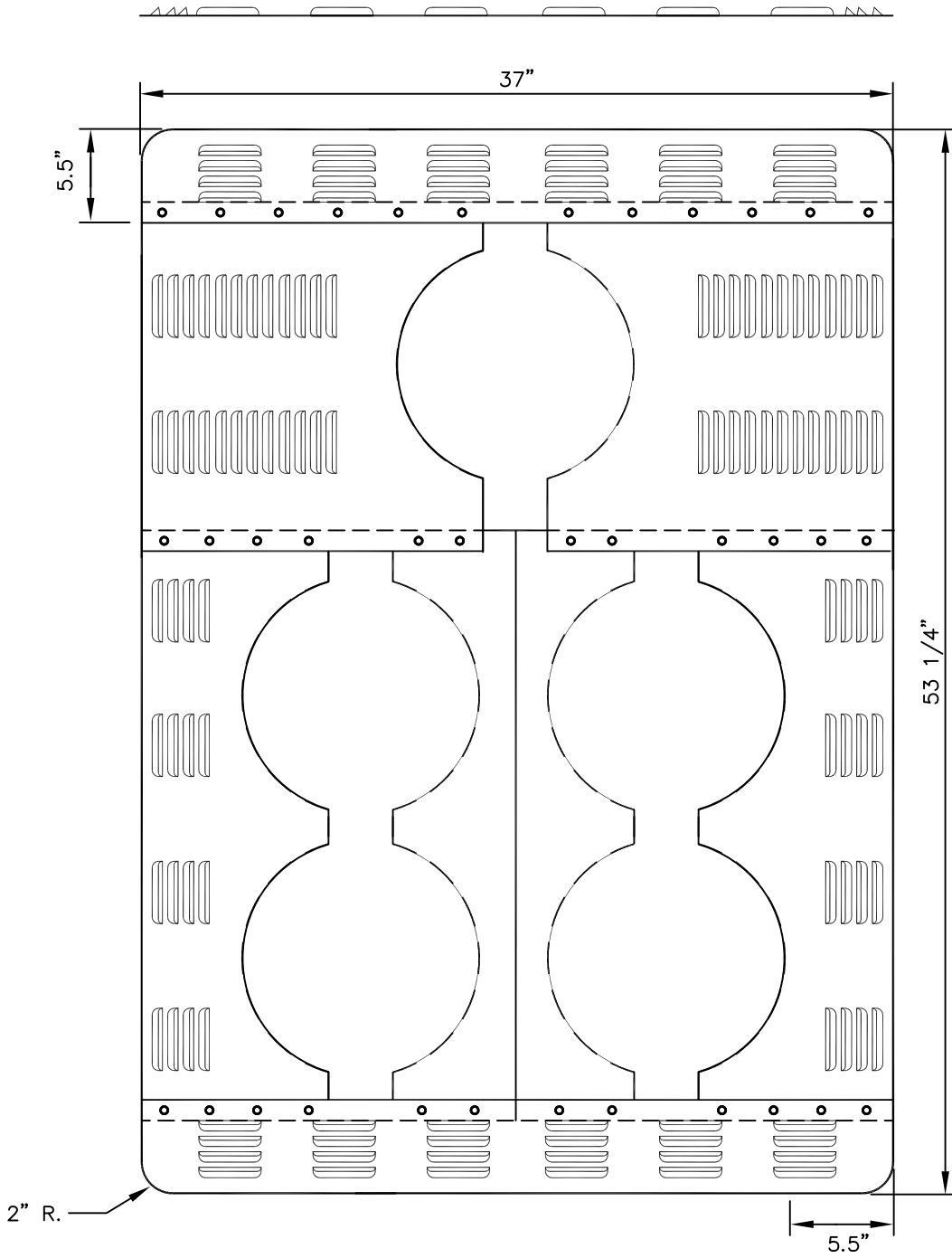
UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

LOUVERED BACKPLATE FOR  
 5 SECTION SIGNAL HEAD

DATE

DWG. NO. 404.902

SHEET 1 OF 1



PAINT: FLAT BLACK  
 SHOWN 5 SECTION, 12" SIGNAL  
 HEAD BACKPLATE WITH  
 ELEVATOR PLUMBIZER  
 REFER TO DRAWING NO. 404.1029

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

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		LOUVERED BACKPLATE FOR 5 SECTION SIGNAL HEAD	
DATE	DWG. NO. 404.903	SHEET 1 OF 1	

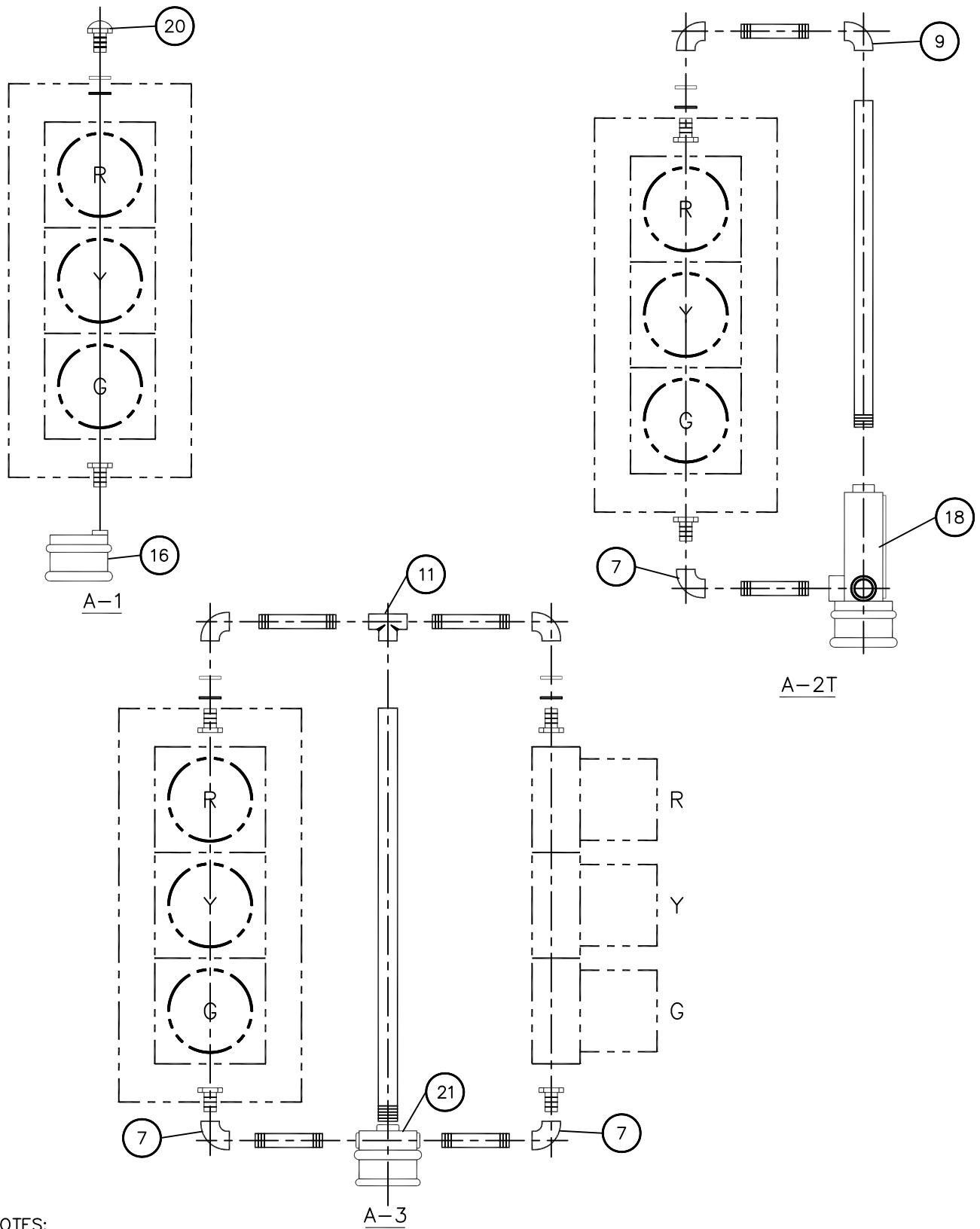
ITEM	DESCRIPTION	STANDARD DWG. NO.
1.		
2.	ELEVATOR PLUMBIZER	404.1203
3.	POLE PLATE WITH WIRE GUIDE	404.1204
4.	2-WAY TIE BRACE	404.1200
5.	3-WAY TIE BRACE	404.1200
6.	4-WAY TIE BRACE	404.1200
7.	SPECIAL ELBOW	404.1202
8.	SPECIAL TEE	404.1202
9.	MALLEABLE ELBOW-REAMED/SET SCREW	404.1206
10.	MALLEABLE ELBOW/SIDE OUTLET/REAMED/SET SCREW	404.1206
11.	MALLEABLE TEE, REAMED/SET SCREW	404.1206
12.	MALLEABLE TEE/SIDE OUTLET, REAMED/SET SCREW	404.1206
13.	MALLEABLE CROSS, REAMED/SET SCREW	404.1206
14.	MALLEABLE CROSS/SIDE OUTLET, REAMED/SET SCREW	404.1206
15.	4-WAY CENTER HUB	404.1205
16.	POST TOP MOUNTED BRACKET	404.1202
17.	SIDE BRACKET MOUNTED ADAPTER WITH TERMINAL COMPT.	404.1208
18.	POST TOP MOUNTED ADAPTER WITH TERMINAL COMPT.	404.1207
19.	LOCKING RING	404.1200
20.	ORNAMENTAL CAP	404.1200
21.	POST TOP MOUNTED ADAPTER WITH 3 PORTS	404.1208
22.	LOCKING NIPPLE	404.1200
23.	POLE PLATE	404.1201

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

BILL OF MATERIALS  
SIGNAL ASSEMBLIES

DATE 12-12-96 | DWG. NO. 404.1005 | SHEET 1 OF 1



**NOTES:**

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

SPECIFICATION REFERENCE

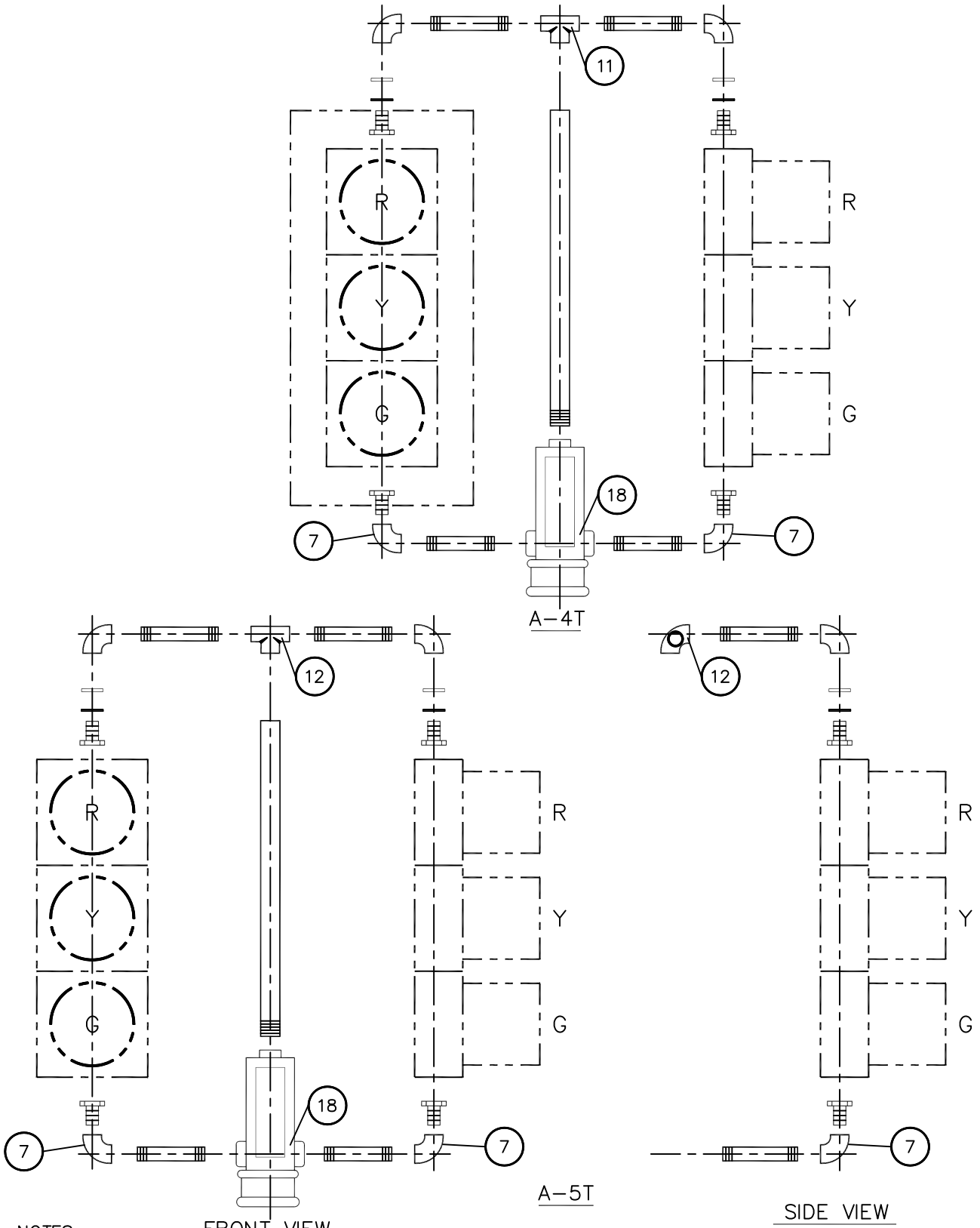
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

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

DATE

DWG. NO. 404.1011

SHEET 1 OF 1

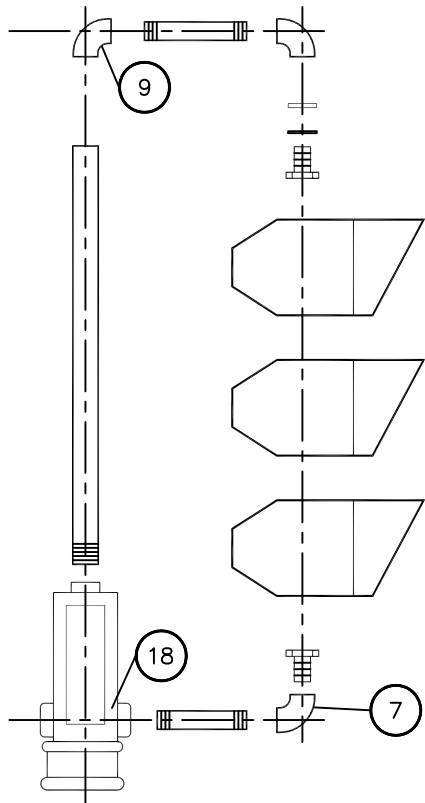


**NOTES:**

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

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
	SIGNAL ASSEMBLIES A-4T, A-5T		
	DATE	DWG. NO. 404.1012	SHEET 1 OF 1

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

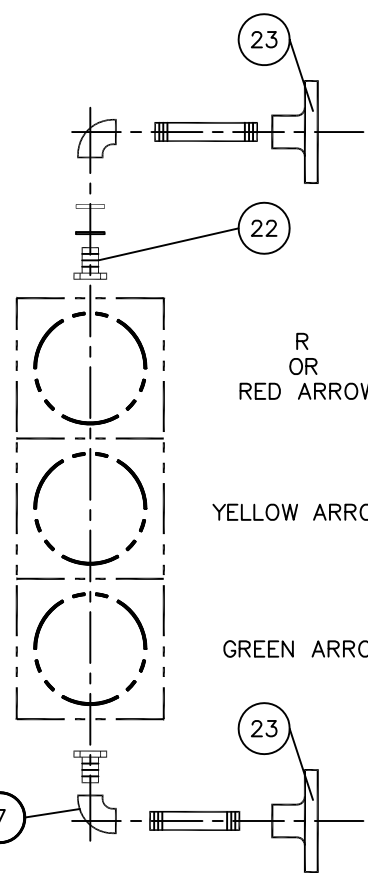


R  
OR  
RED ARROW

YELLOW ARROW

GREEN ARROW

PROGRAMMED  
VISIBILITY  
HEAD



R  
OR  
RED ARROW

YELLOW ARROW

GREEN ARROW

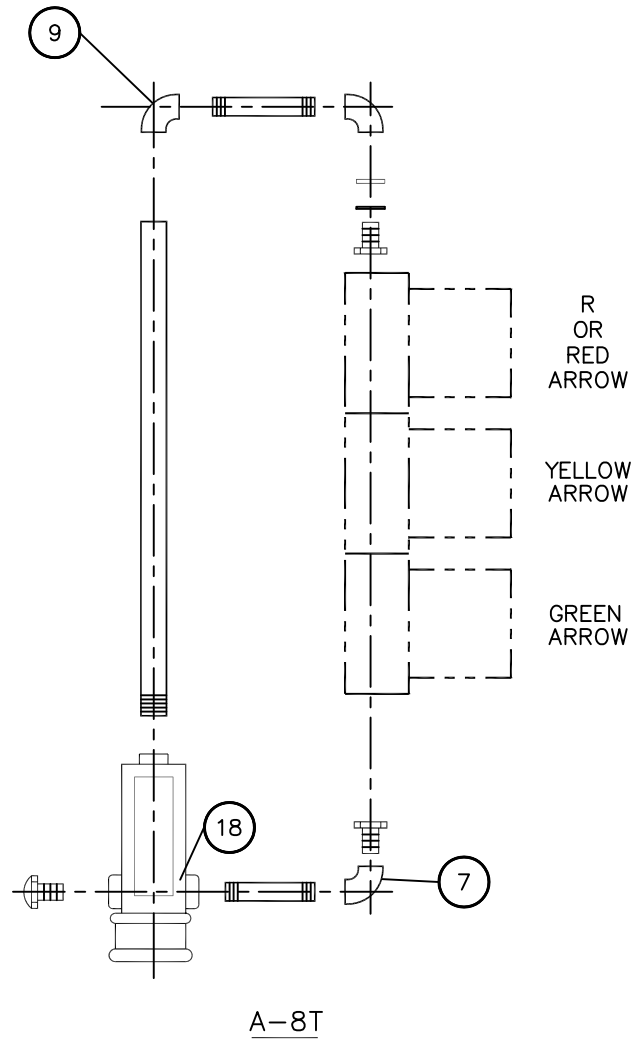
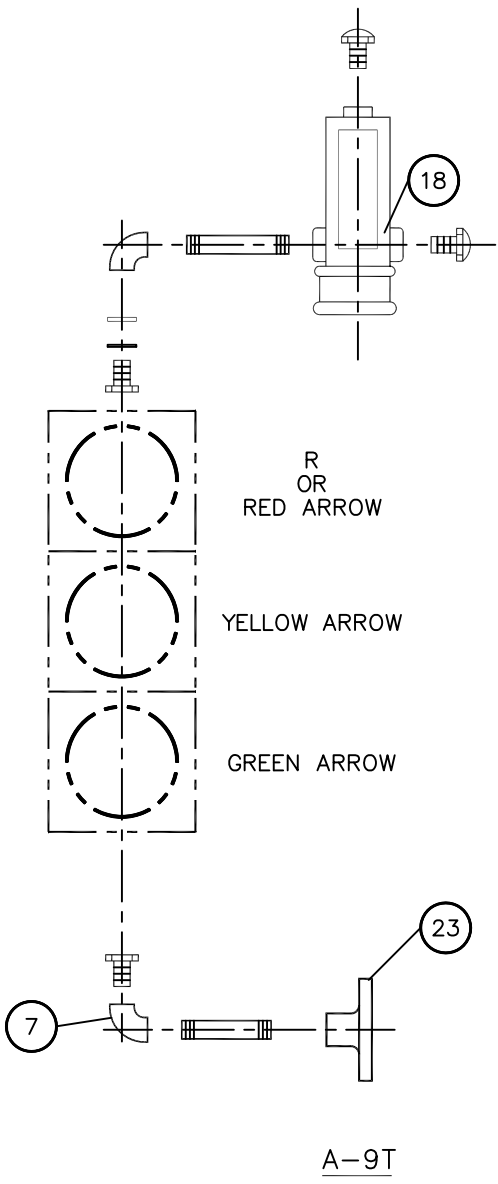
A-6T

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.

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

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		SIGNAL ASSEMBLIES A-6T	
		DATE 2-11-93	DWG. NO. 404.1013
		SHEET 1 OF 1	



NOTES:

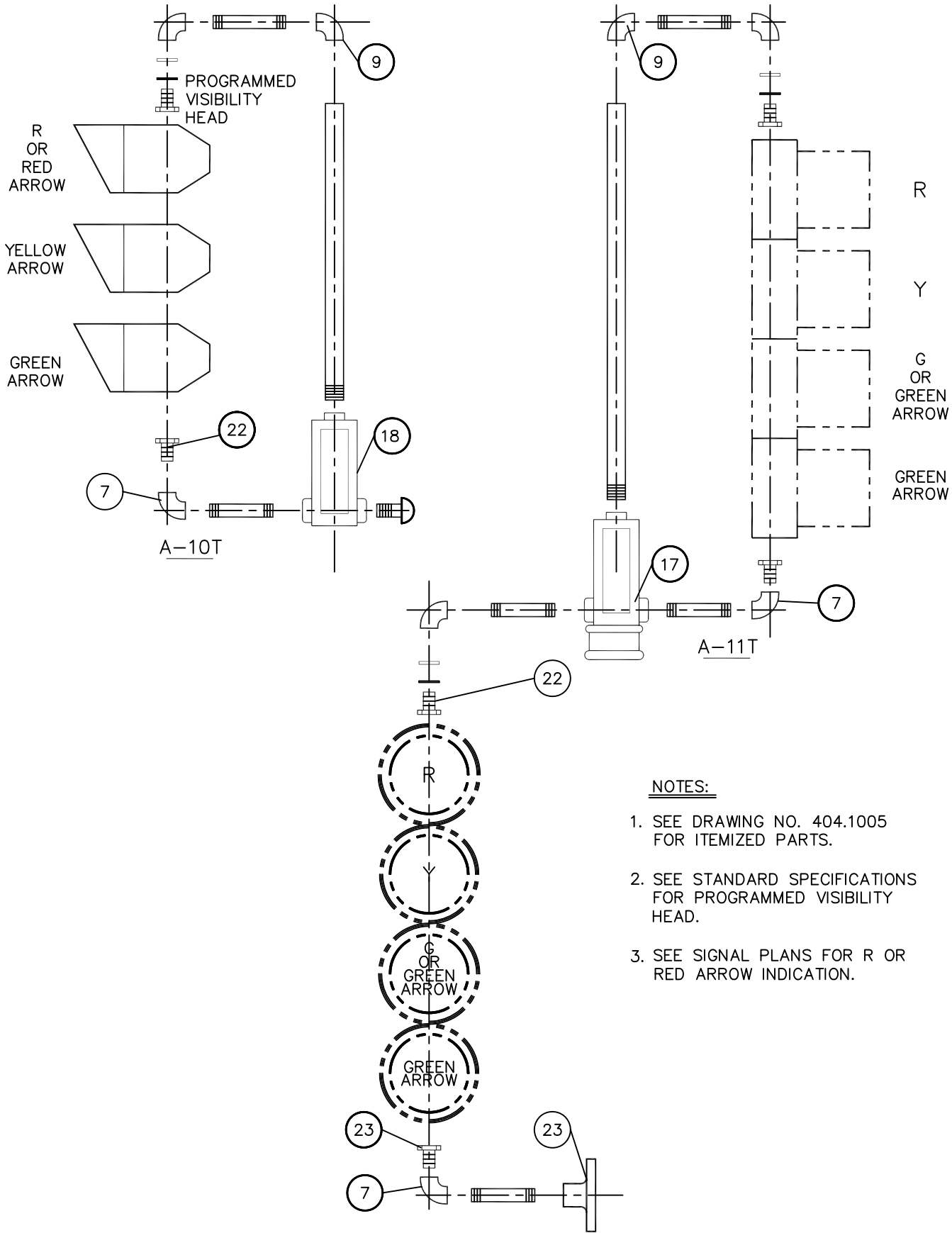
1. PROVIDE BACKPLATE ON A-8T.
2. ALL INDICATIONS ARE 12" NOMINAL (GLASS).
3. SEE DRAWING NO. 404.1410 OR ARROW LENS.
4. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
A-8T, A-9T

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



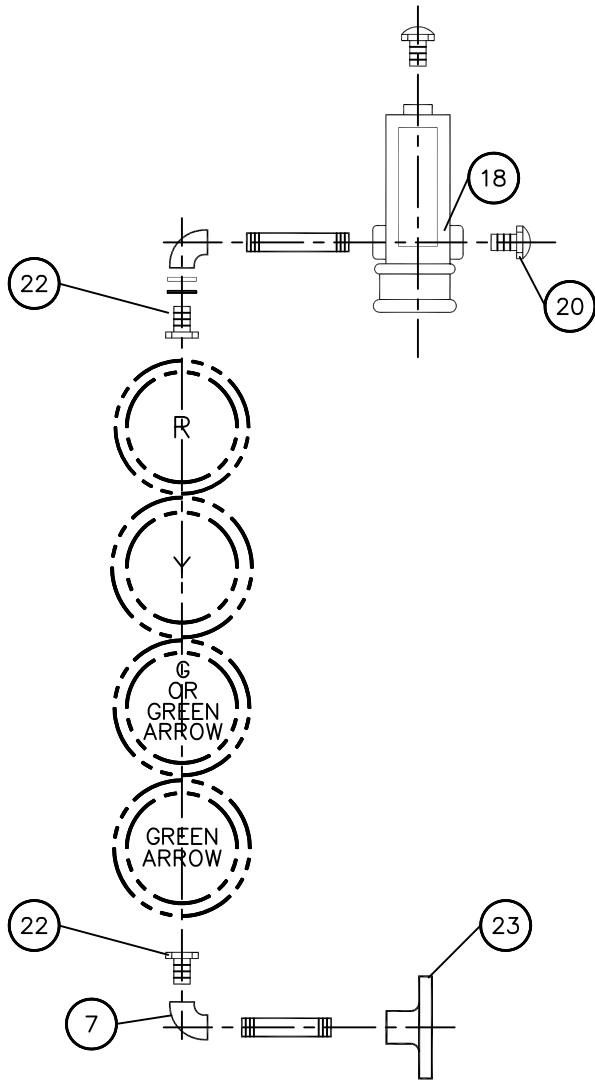
NOTES:

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.

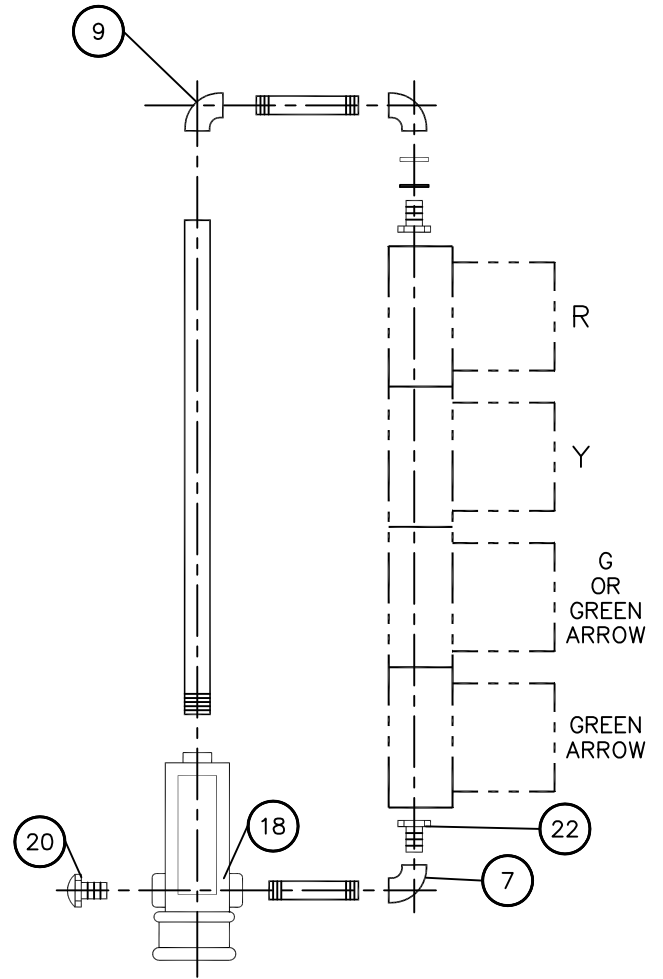
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
A-10T, A-11T



A-12T



A-13T

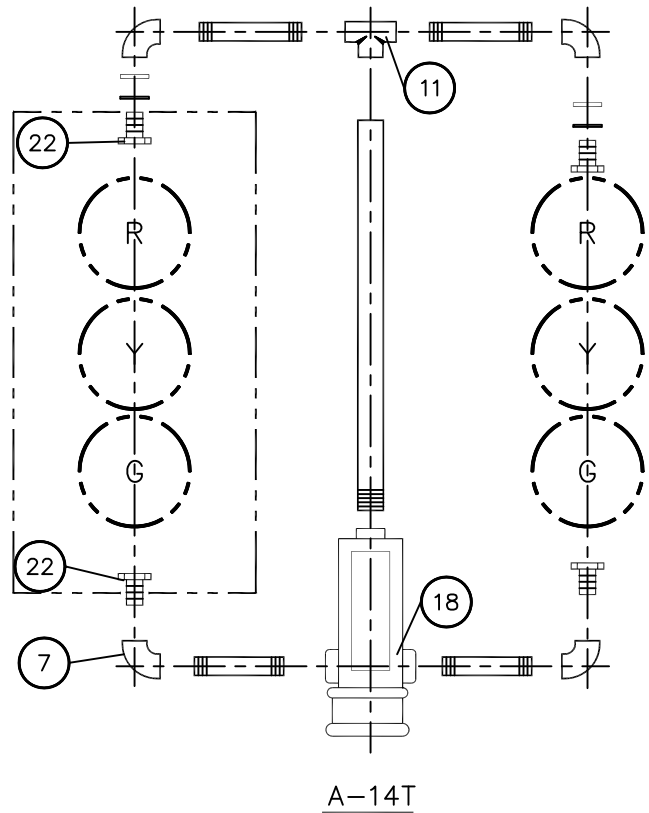
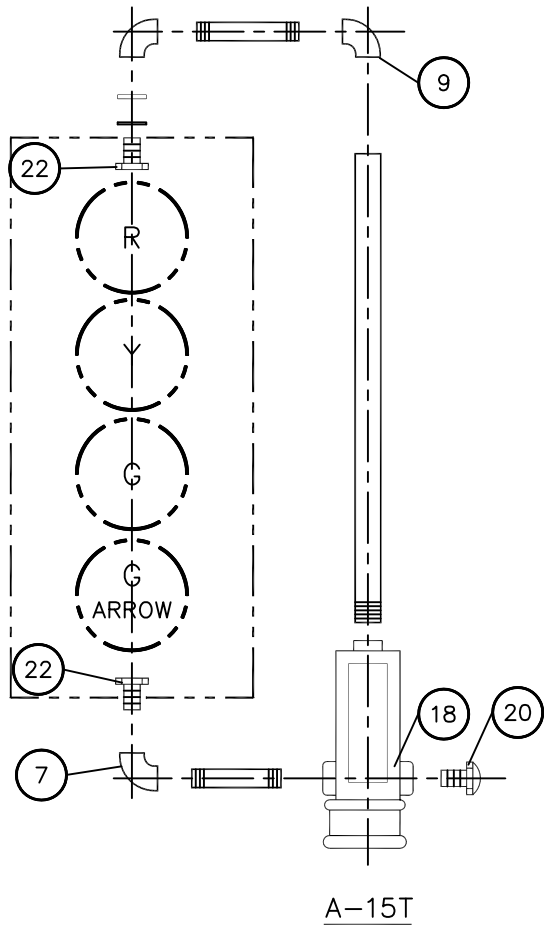
NOTES:

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



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.

SPECIFICATION REFERENCE

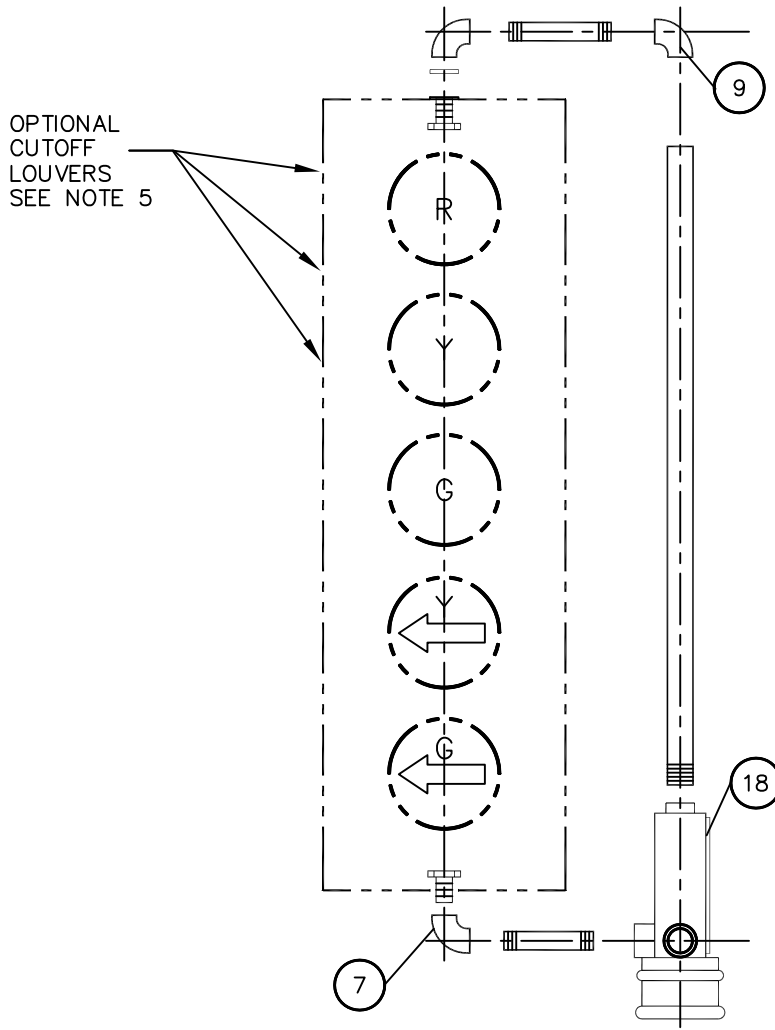
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
A-14T, A-15T

DATE

DWG. NO. 404.1018

SHEET 1 OF 1



A-16T

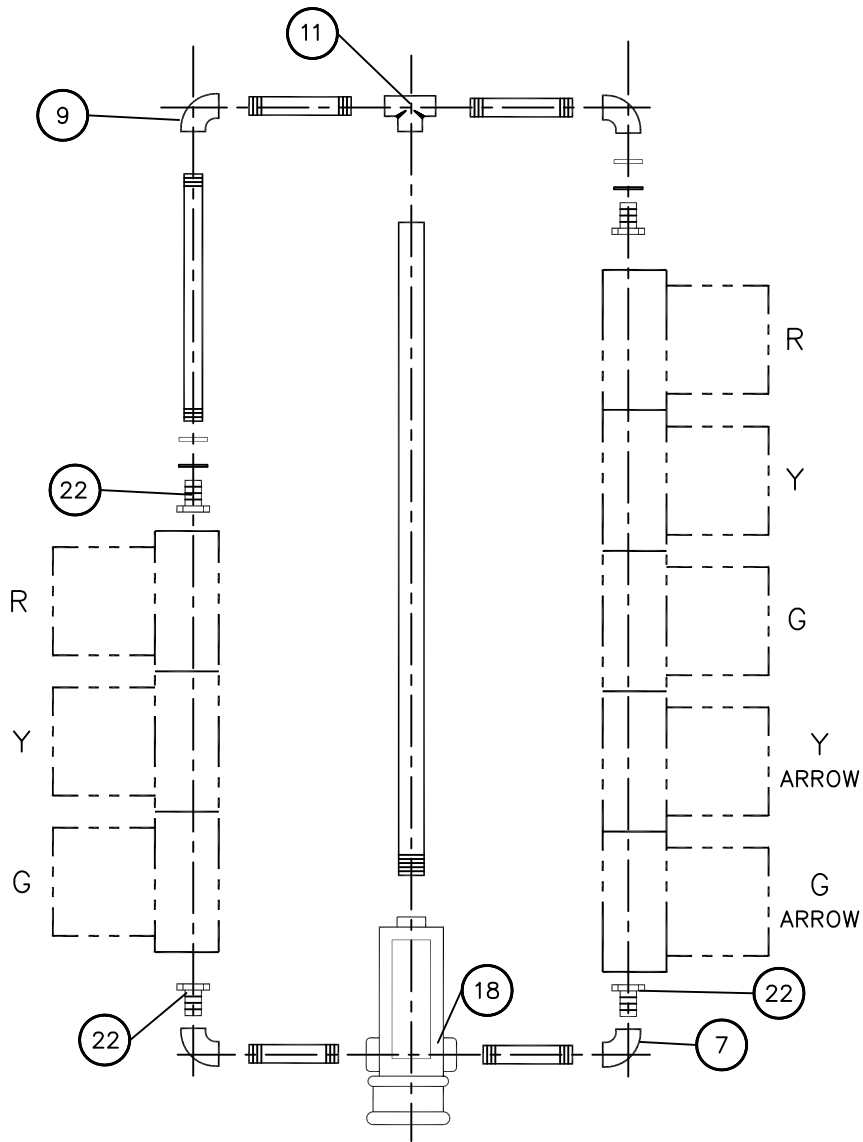
NOTES:

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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
A-16T



A-17T

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).

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

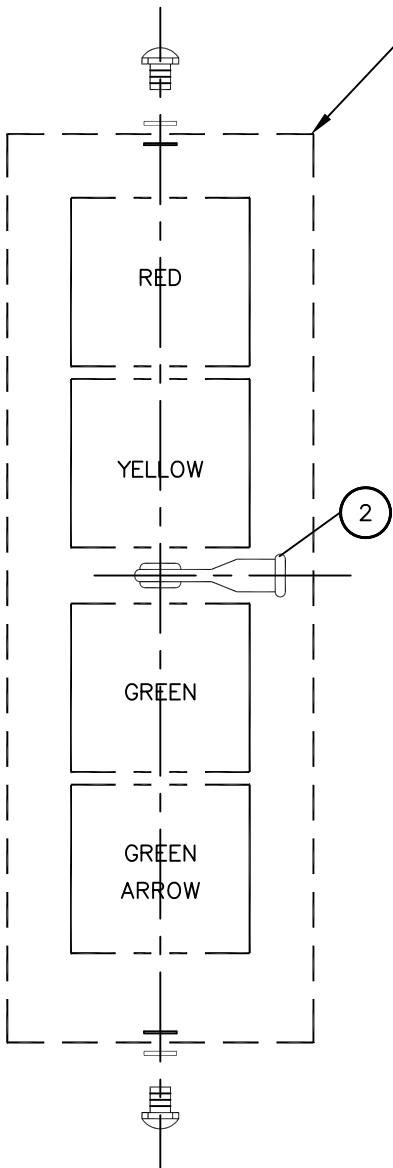
SIGNAL ASSEMBLIES  
A-17T

DATE

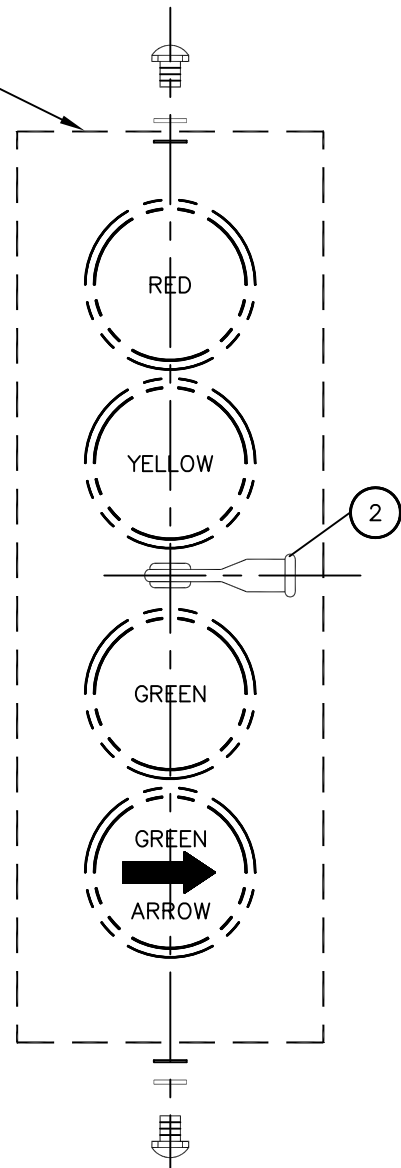
DWG. NO. 404.1020

SHEET 1 OF 1

PROVIDE LOUVERED BACKPLATE  
SIMILAR TO DRAWING 404.900



PROGRAMMED VISIBILITY HEADS  
M-3A



STANDARD 12" SIGNAL HEADS  
M-2A

NOTES:

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

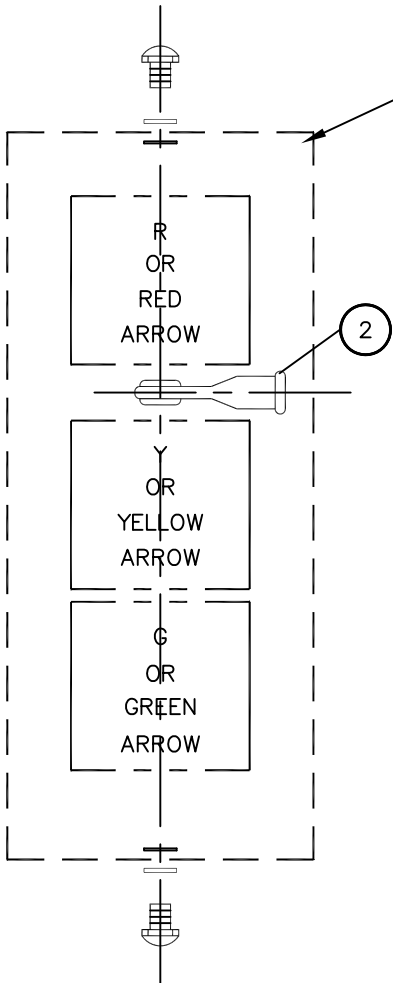
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

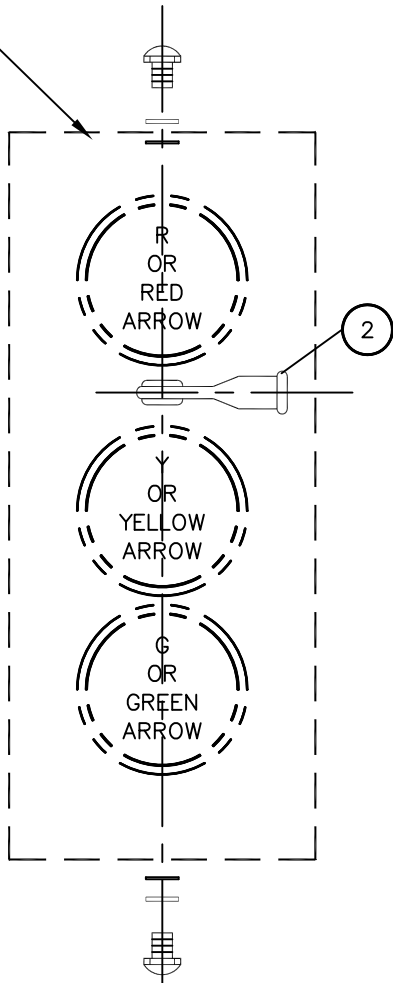
MAST ARM SIGNAL ASSEMBLIES  
M-2A, M-3A

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

PROVIDE LOUVERED BACKPLATE  
SIMILAR TO DRAWING 404.900



PROGRAMMED VISIBILITY HEADS  
M-3



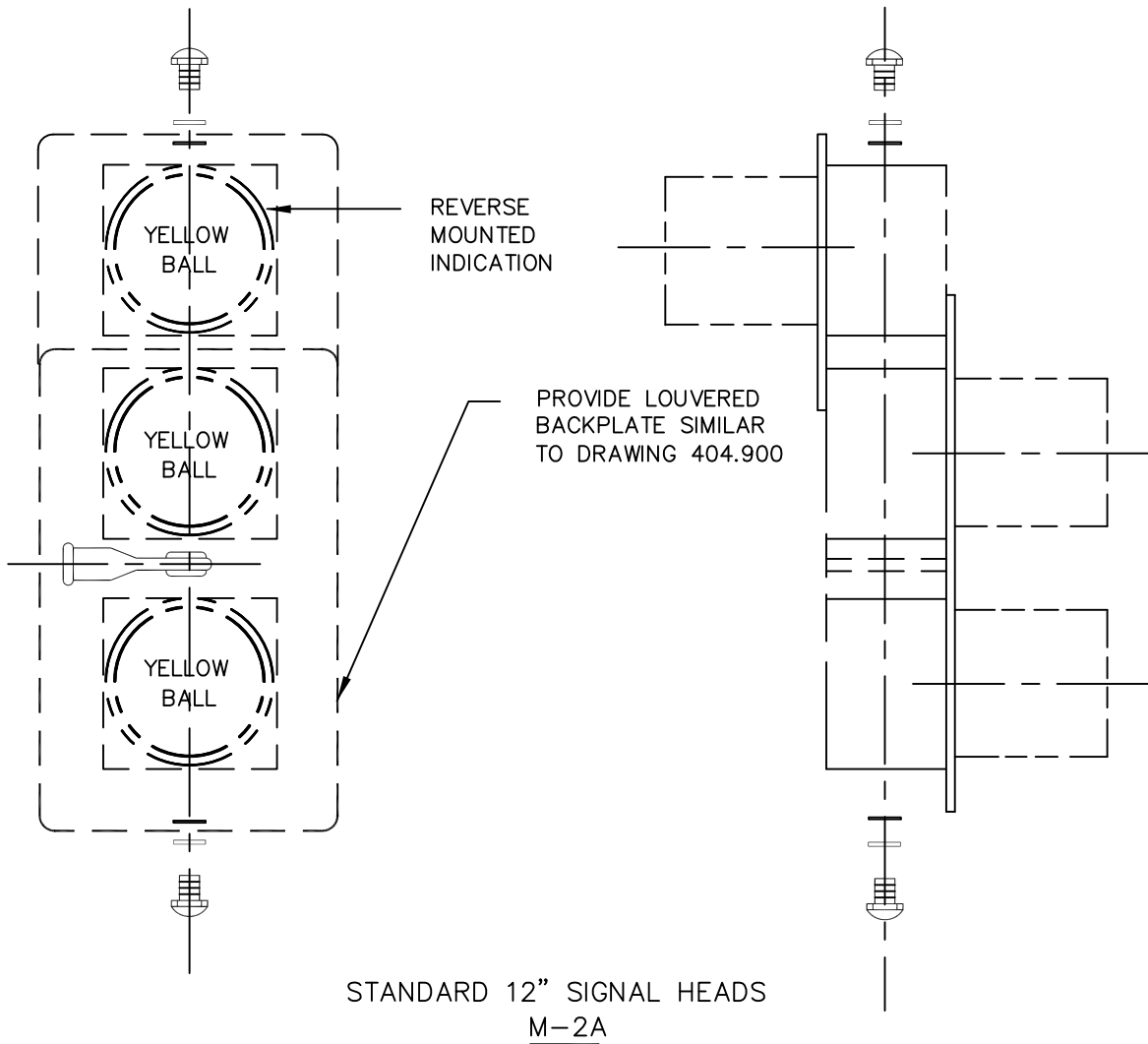
STANDARD 12" SIGNAL HEADS  
M-2

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.

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

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
	MAST ARM SIGNAL ASSEMBLIES M-3, M-2		
	DATE 2-11-93	DWG. NO. 404.1023	SHEET 1 OF 1



NOTES:

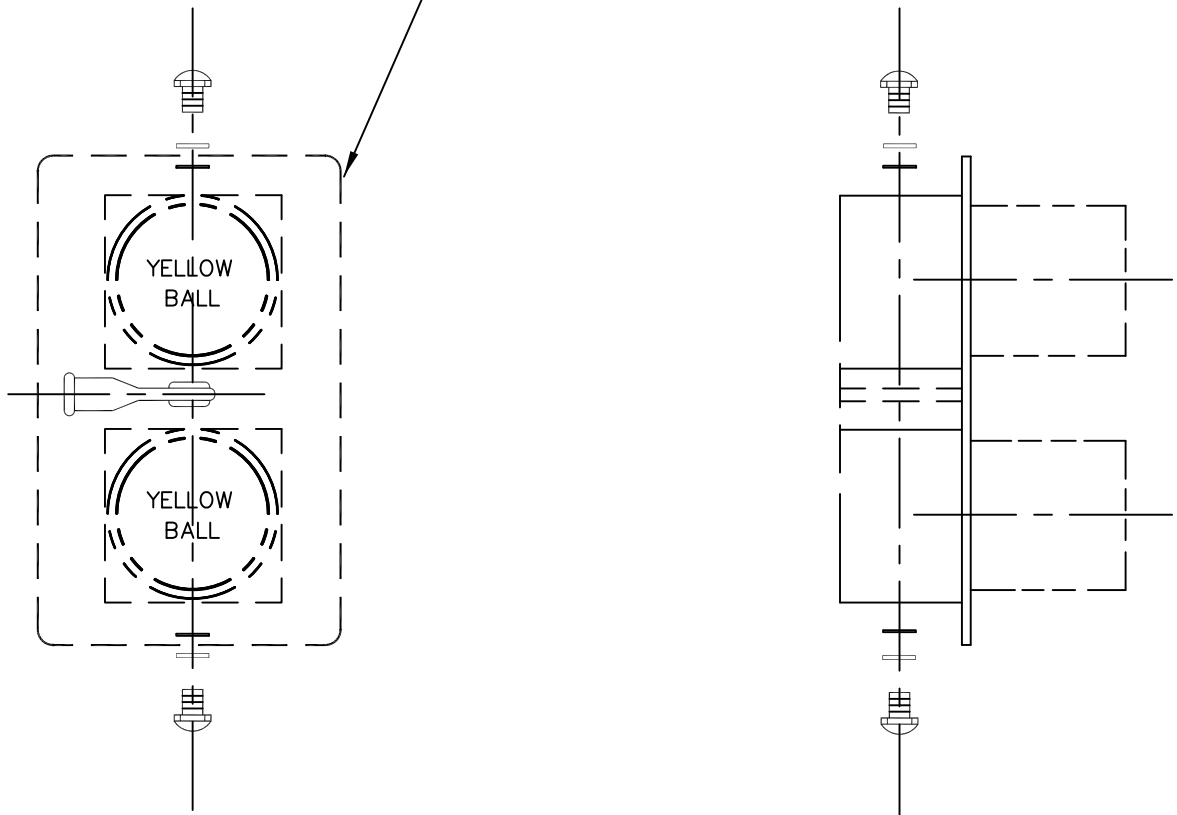
1. ALL INDICATIONS ARE TO BE YELLOW LED BALLS.
2. ALL M-2A INDICATIONS ARE 12" NOMINAL.
3. CIRCULAR VISORS TO BE INSTALLED ON ALL HEADS.
4. SEE SIGNAL PLANS FOR MAST ARM TENON LOCATIONS.
5. THIS HEAD ASSEMBLY SHALL BE USED ONLY ON THE END OF THE MAST ARM.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SCHOOL FLASHER  
MAST ARM SIGNAL ASSEMBLIES  
M-2A

PROVIDE LOUVERED  
BACKPLATE SIMILAR  
TO DRAWING 404.900



STANDARD 12" SIGNAL HEADS  
M-2B

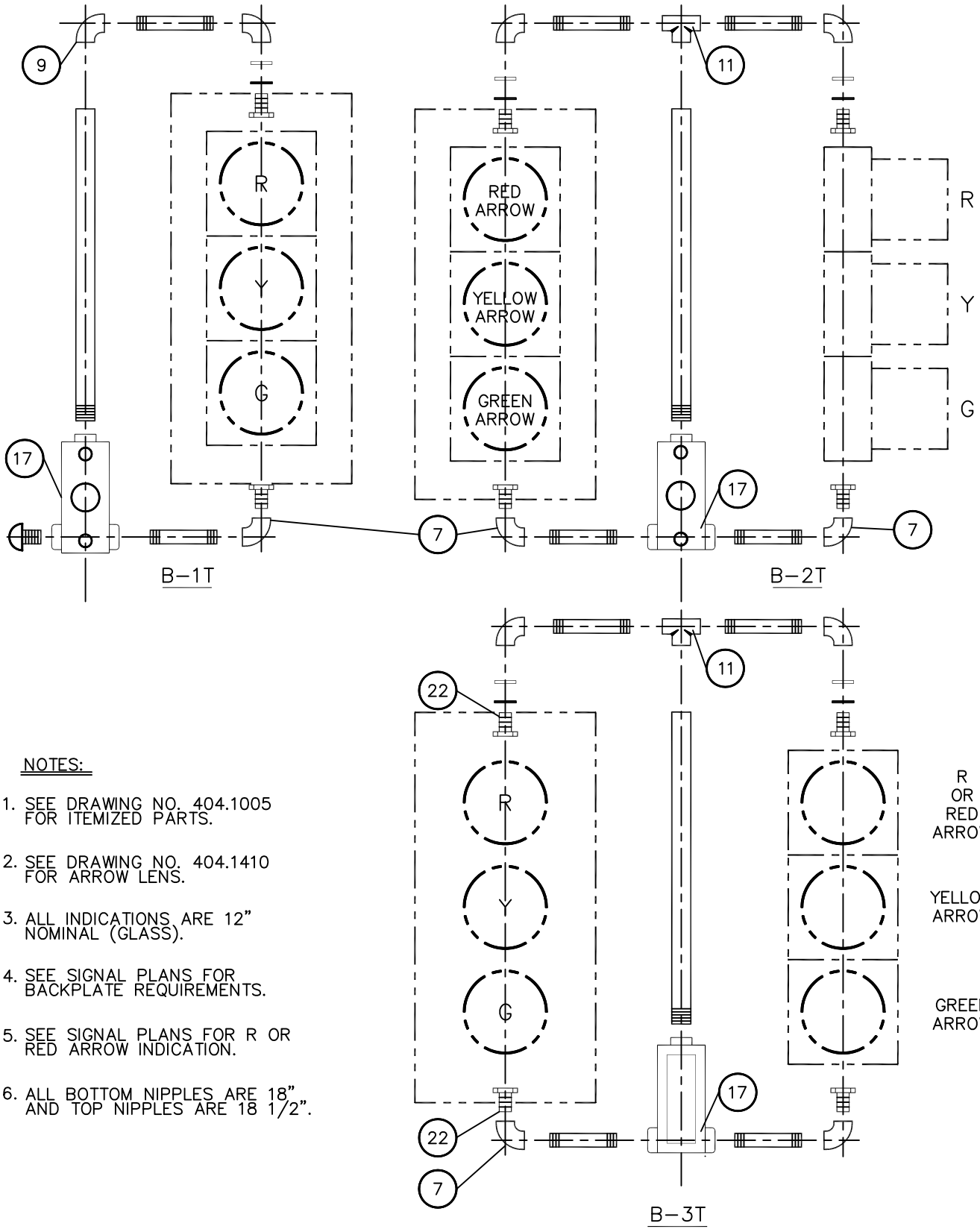
NOTES:

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



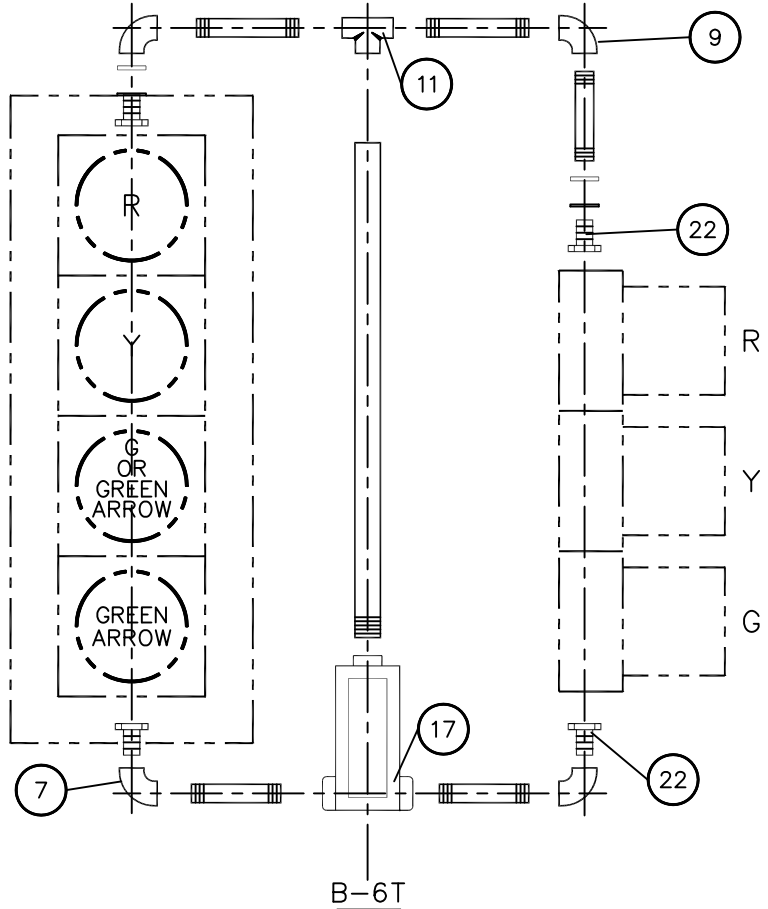
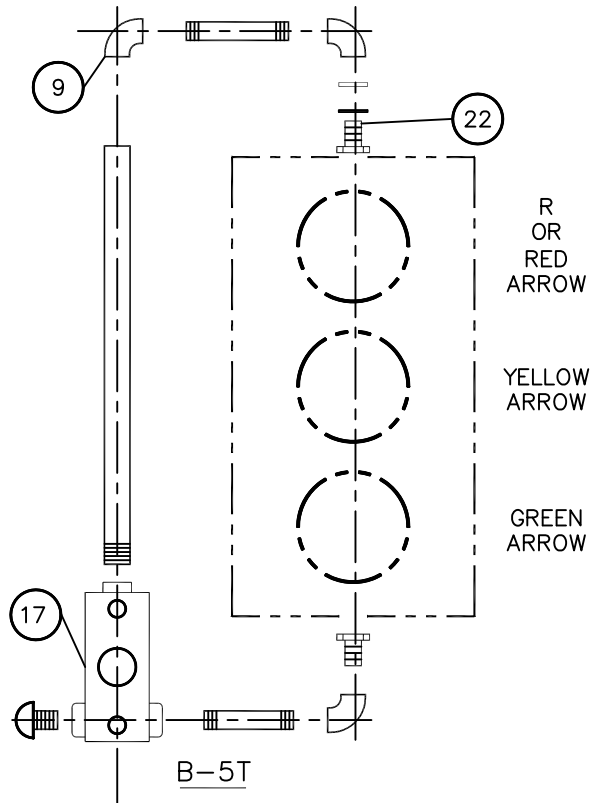
NOTES:

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



NOTES:

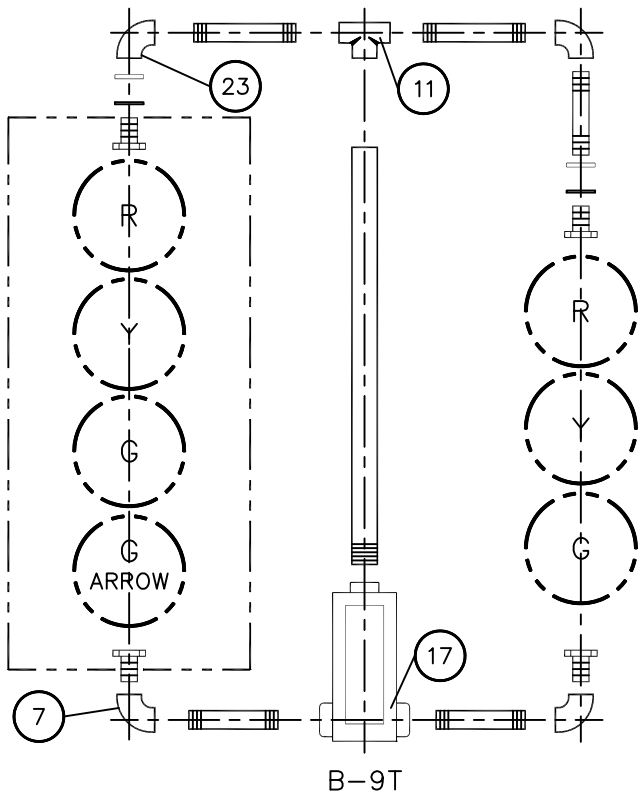
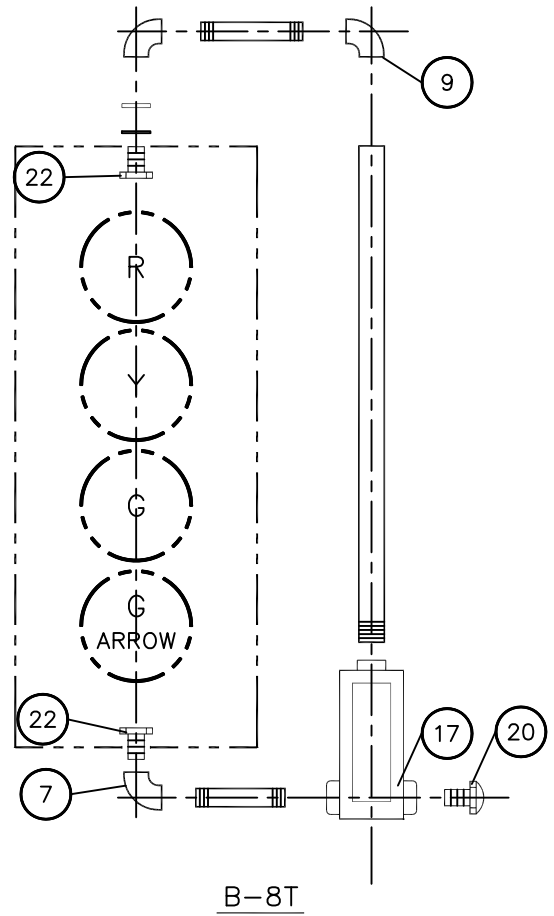
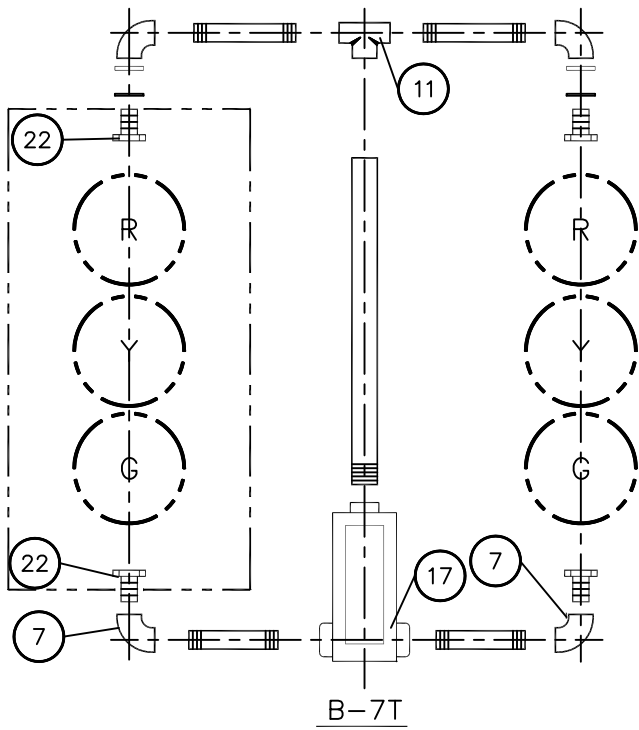
1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
2. SEE DRAWING NO. 404.1410 FOR ARROW LENS.
3. ALL INDICATIONS ARE 12" NOMINAL (GLASS).
4. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.
5. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
6. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
B-5T, B-6T

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



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

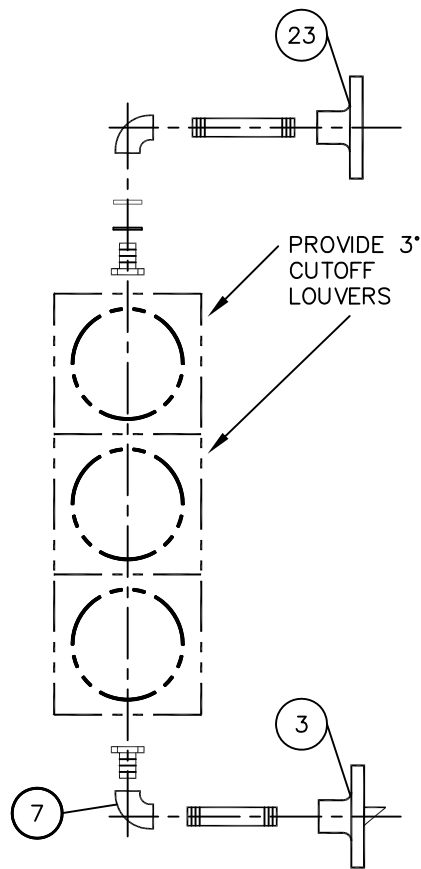
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
B-7T, B-8T, B-9T

DATE

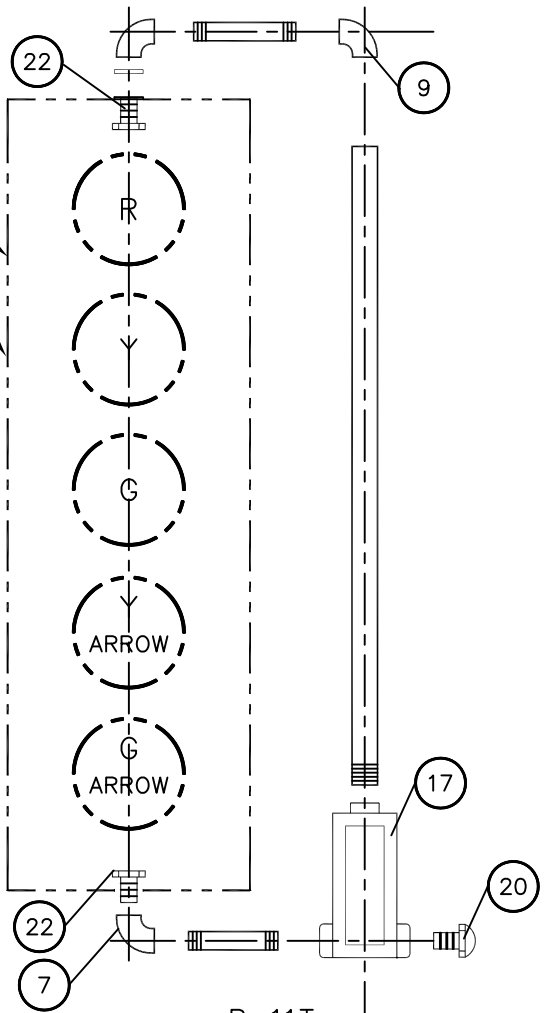
DWG. NO. 404.1026

SHEET 1 OF 1



B-10

OPTIONAL  
CUTOFF  
LOUVERS  
SEE NOTE 5



B-11T

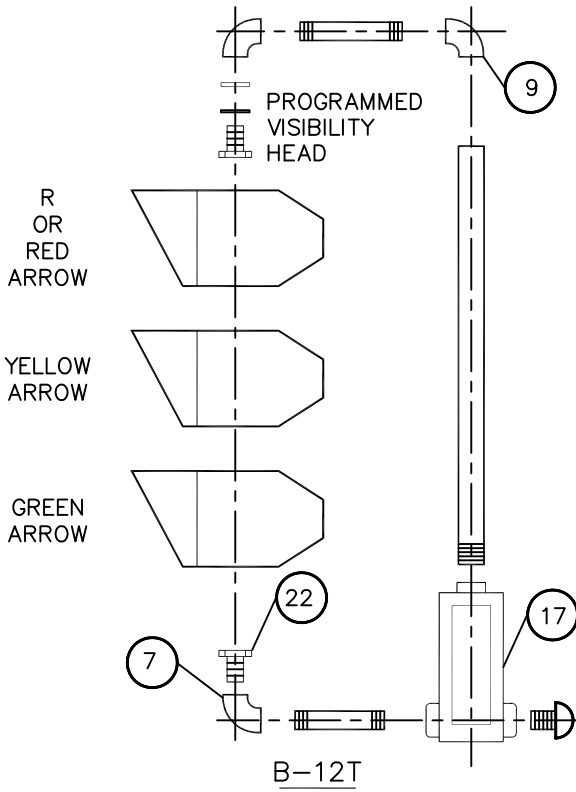
NOTES:

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

SPECIFICATION REFERENCE

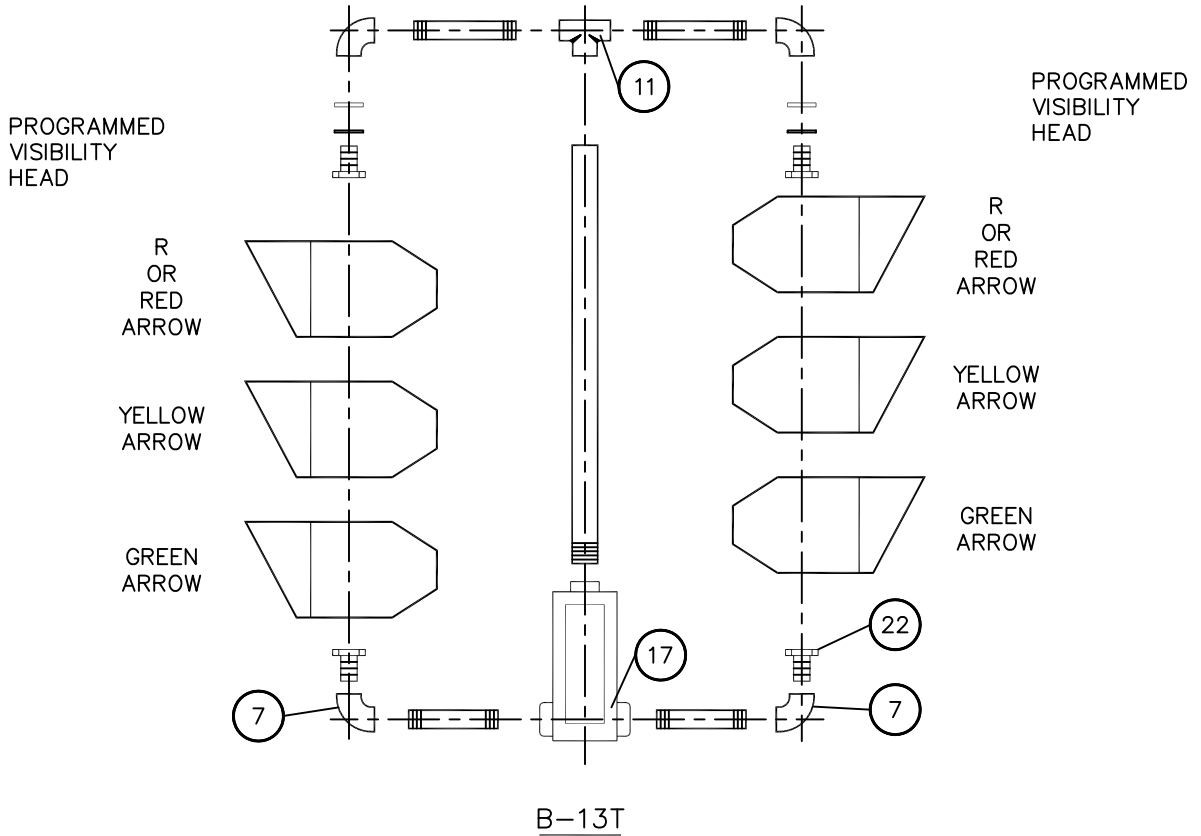
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
B-10, B-11T



NOTES:

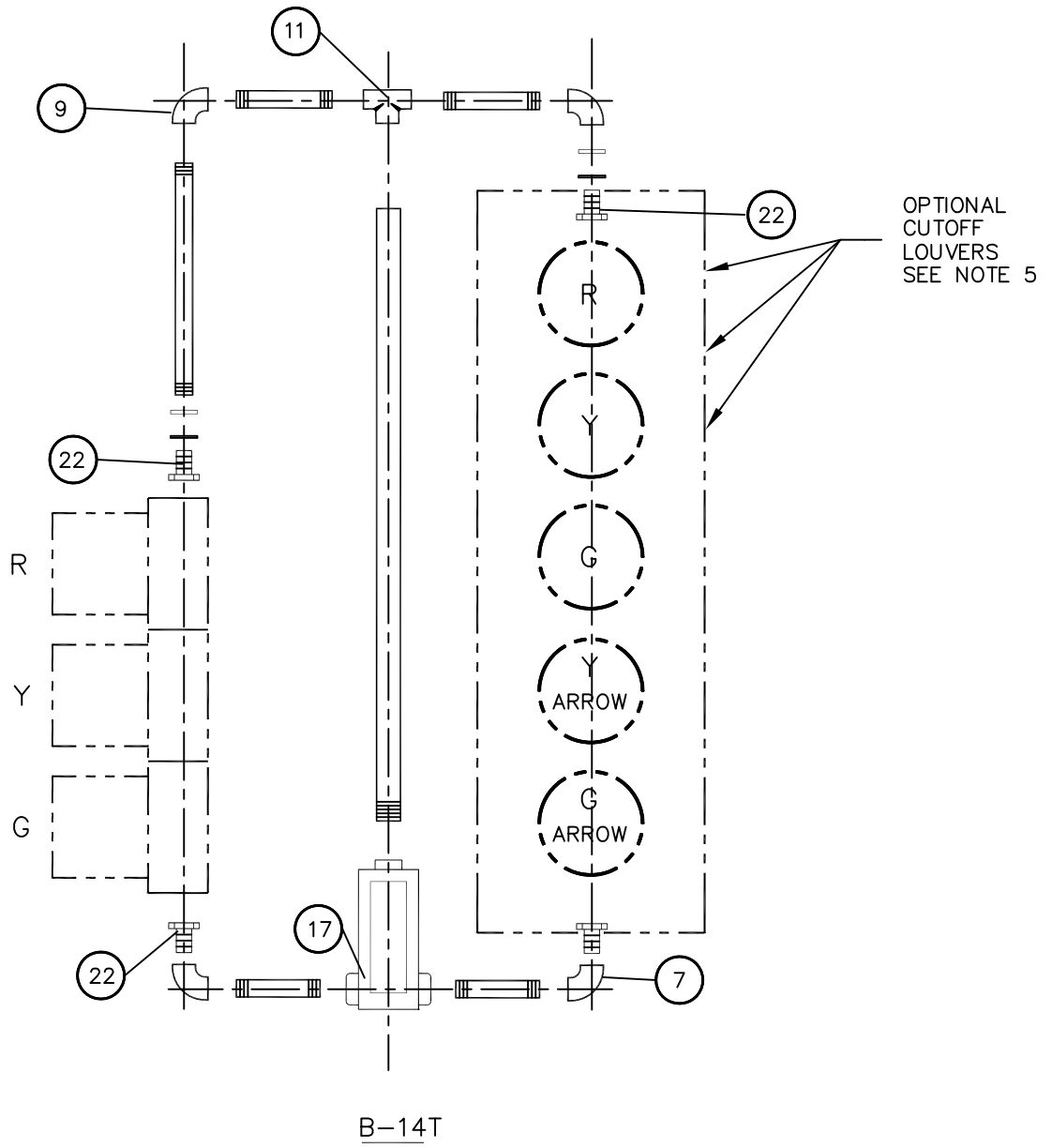
1. SEE DRAWING NO. 404.1005 FOR ITEMIZED PARTS.
2. SEE STANDARD SPECIFICATIONS FOR PROGRAMMED VISIBILITY HEADS.
3. SEE SIGNAL PLANS FOR BACKPLATE REQUIREMENTS.
4. SEE SIGNAL PLANS FOR R OR RED ARROW INDICATION.
5. ALL BOTTOM NIPPLES ARE 18" AND TOP NIPPLES ARE 18 1/2".



SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
B-12T, B-13T



NOTES:

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

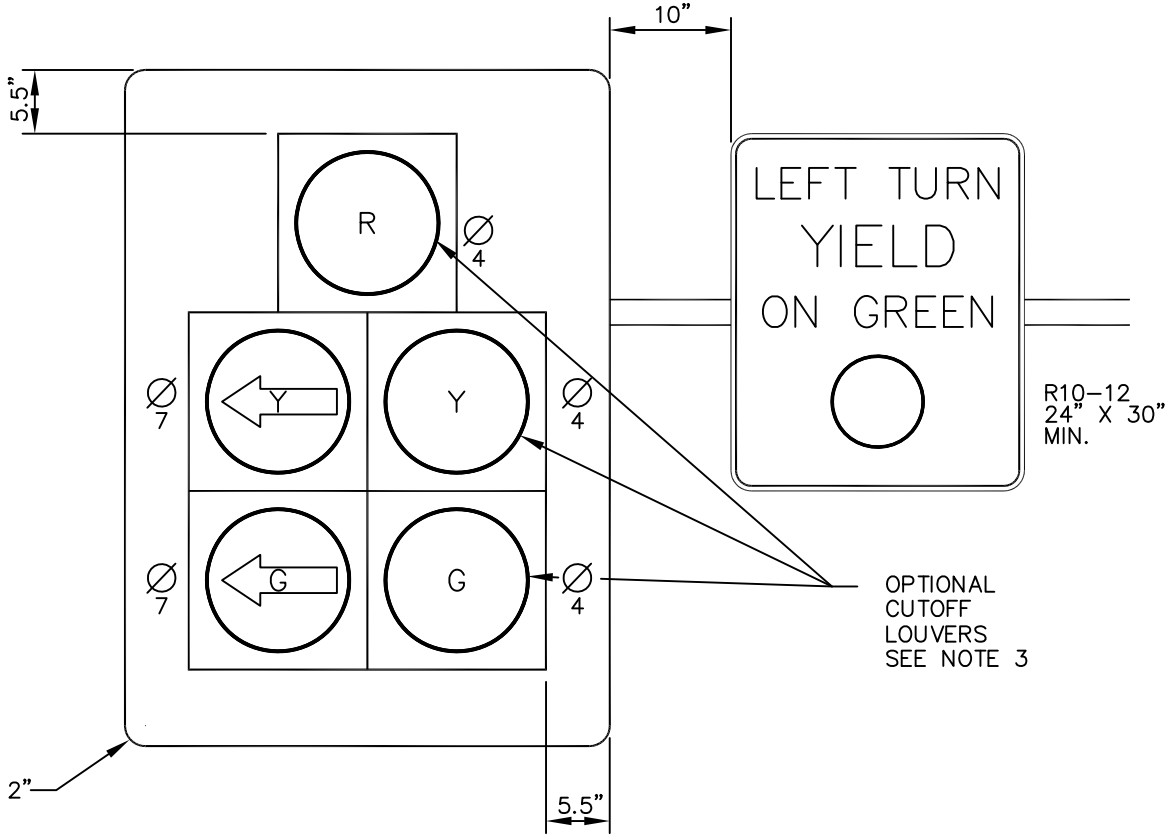
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIGNAL ASSEMBLIES  
B-14T

DATE 10-8-98

DWG. NO. 404.1029

SHEET 1 OF 1



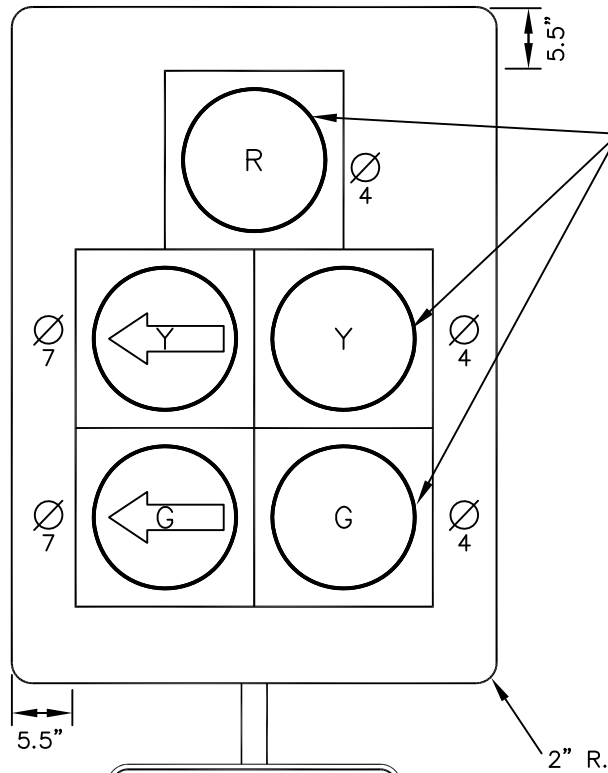
NOTES:

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.

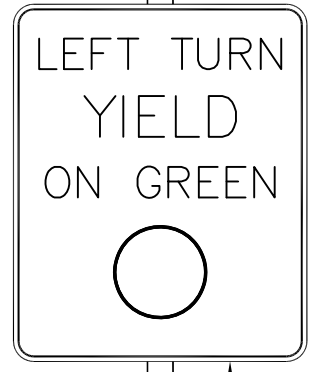
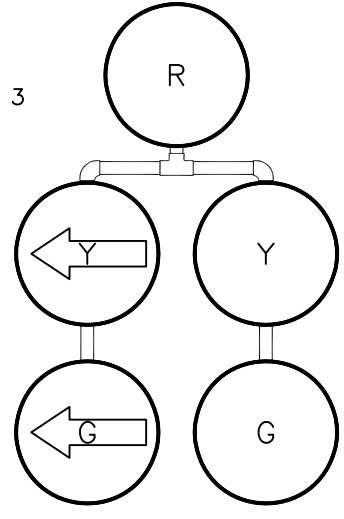
SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
PROTECTED / PERMISSIVE M-5 SIGNAL HEADS		
DATE 5-12-94	DWG. NO. 404.1030	SHEET 1 OF 1

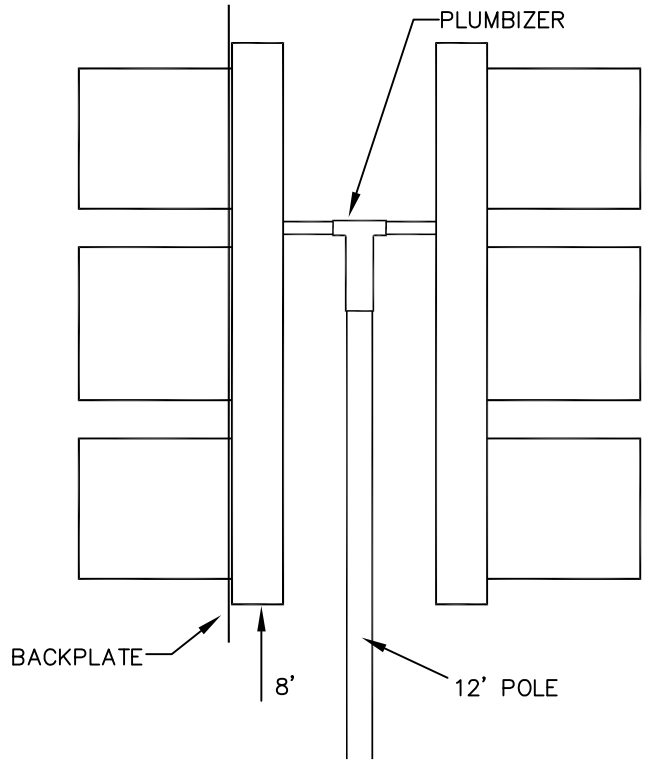
Effective 07/01/08 - 12/30/08



OPTIONAL  
CUTOFF  
LOUVERS  
SEE NOTE 3



R10-12  
24" X 30"  
MIN.



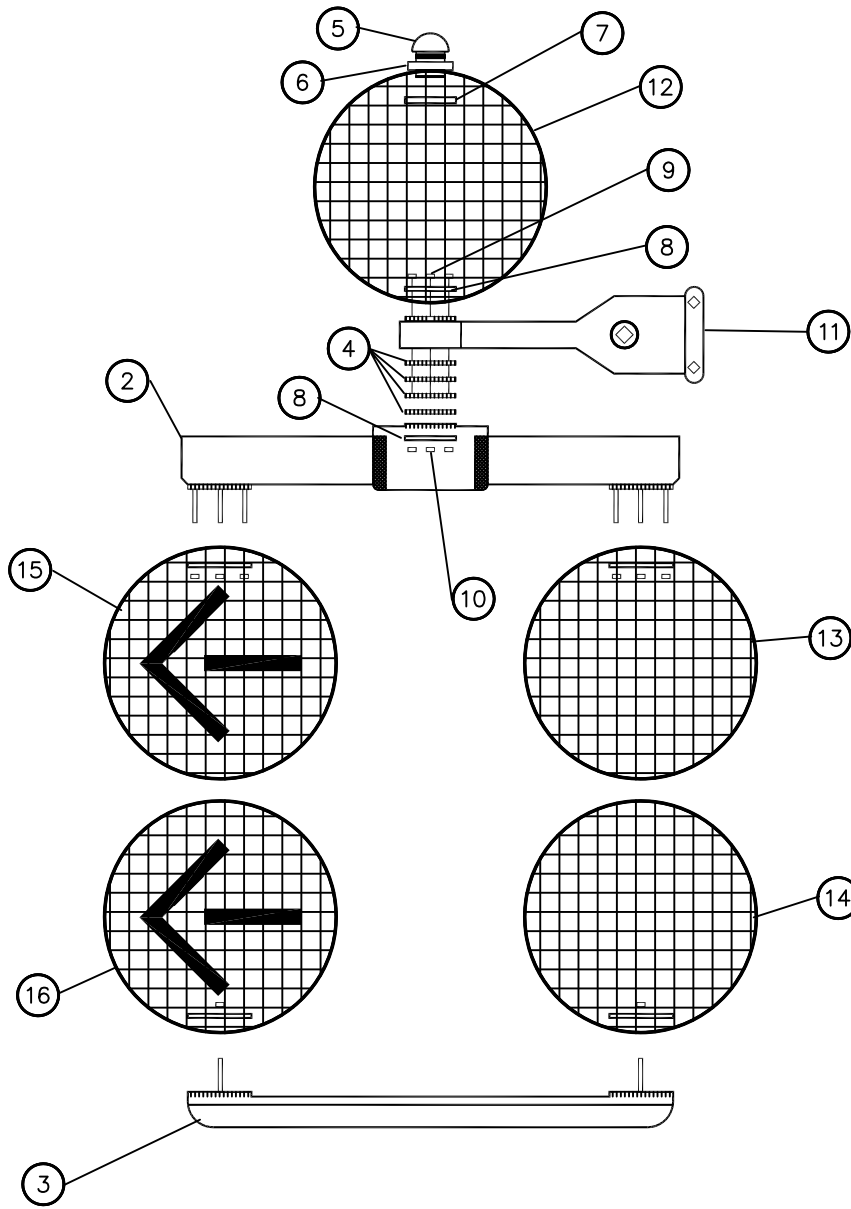
SIDE VIEW

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.

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

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

① ASSEMBLY

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPE: M-5 ASSEMBLIES  
AND PARTS LIST

DATE

DWG. NO. 404.1031

SHEET 2 OF 3

FW 2933 AND SIGNAL ASSEMBLY

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

<u>REF #</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>REQ.</u>
1	FW2933	ASSEMBLY	X
2	E205P1	TOP BRACKET W/COVER	1
3	E2051P1	BOTTOM BRACKET	1
4	E1270P1	ADAPTOR RING	4
5	E1206P	ORNAMENT	1
6	E1251P1	WASHER, NEOPRENE	1
7	55712P6	CONDUIT LOCKNUT	1
8	E789P1	ATTACHING WASHER	2
9	E788P2	ATTACHING BOLT	3
10	N210P23C	ATTACHING NUT	3
11	FW0904G	ELEV. PLUMIZER, OLD STYLE (NO LONGER AVAILABLE)	1
12	E4955P1	RED BALL LENS	1
13	E4955P22	YELLOW BALL LENS	1
14	E4955P3	GREEN BALL LENS	1
15	E4960P2	YELLOW ARROW LENS	1
16	E4960P3	GREEN ARROW LENS	1
17	E2074G5	BACKPLATE	1

SPECIFICATION REFERENCE

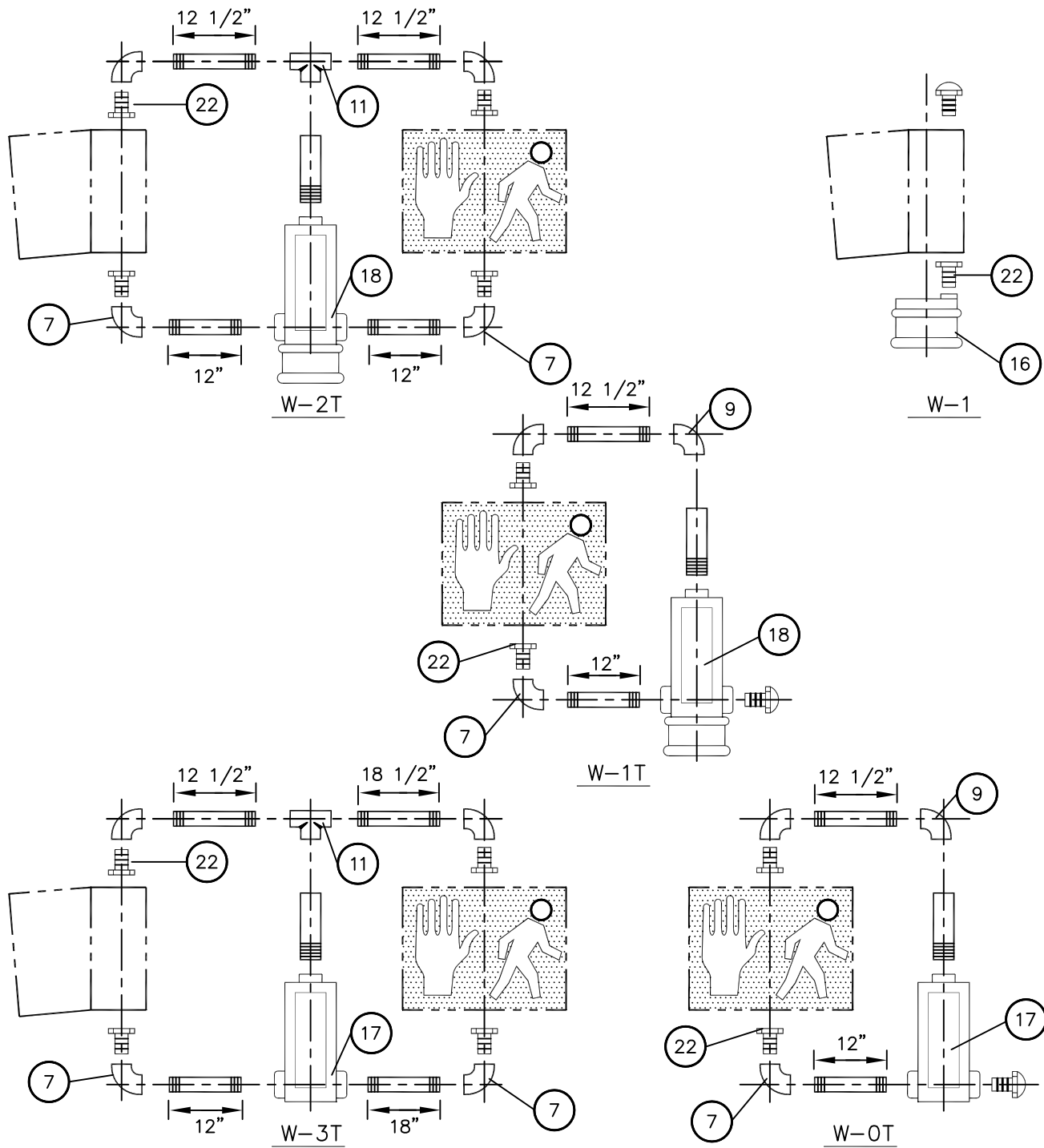
UNIFORM STANDARD DRAWINGS  
 CLARK COUNTY AREA

TYPE: M-5 ASSEMBLIES  
 AND PARTS LIST

DATE

DWG. NO. 404.1031

SHEET 3 OF 3

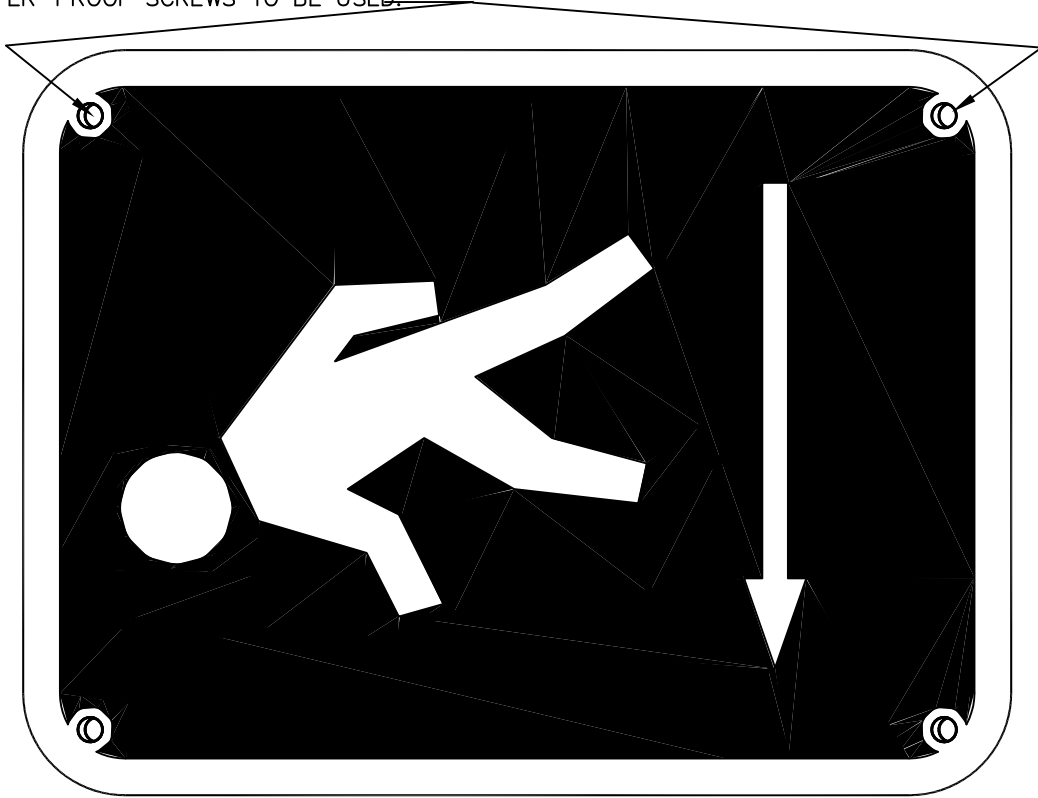


NOTES:

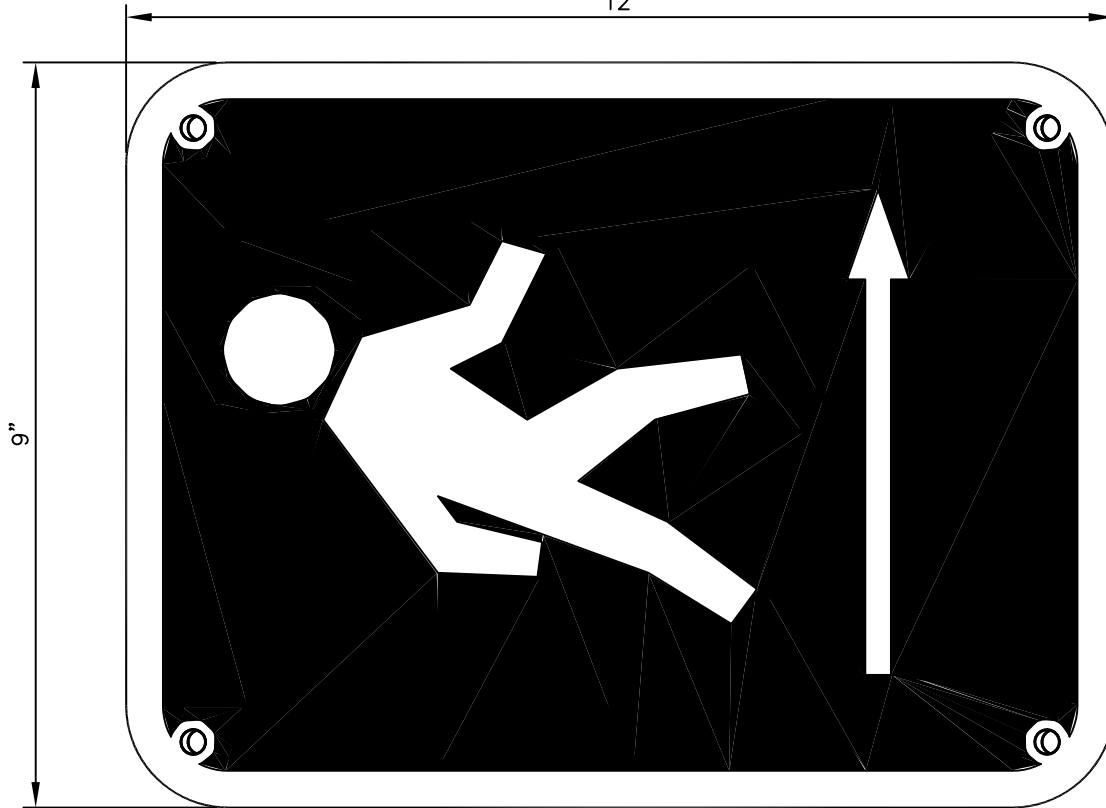
1. FOR GENERAL SPECIFICATIONS SEE TRAFFIC SIGNAL PLANS.
2. FOR ITEMIZED PARTS, SEE DRAWING NO. 404.1005.
3. THE HAND SYMBOL (DON'T WALK) IS PORTLAND ORANGE AND HUMAN SYMBOL (WALK) IS LUNAR WHITE.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
	PEDESTRIAN SIGNAL ASSEMBLIES W-0T, W-1, W-2T, W-3T, W-1T		
	DATE 12-12-96	DWG. NO. 404.1032	SHEET 1 OF 1

NOTE: TAMPER-PROOF SCREWS TO BE USED.



12"



9"

SPECIFICATION REFERENCE

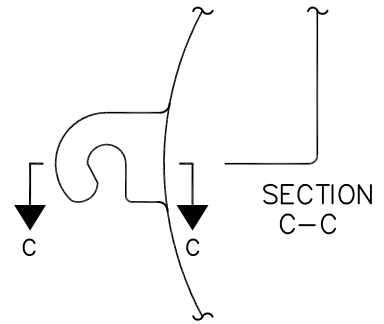
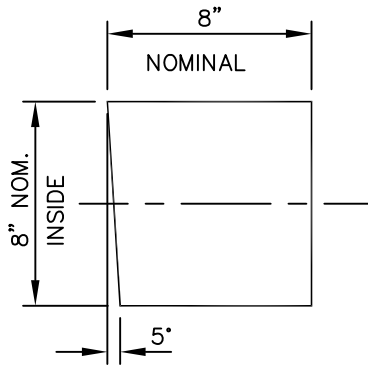
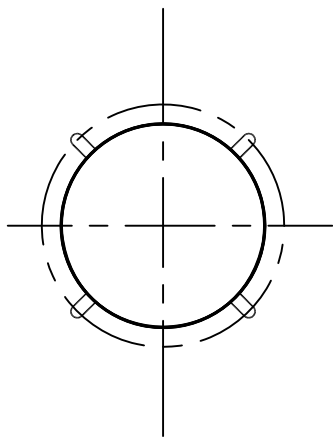
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

PEDESTRIAN PUSH BUTTON  
SIGN DETAIL

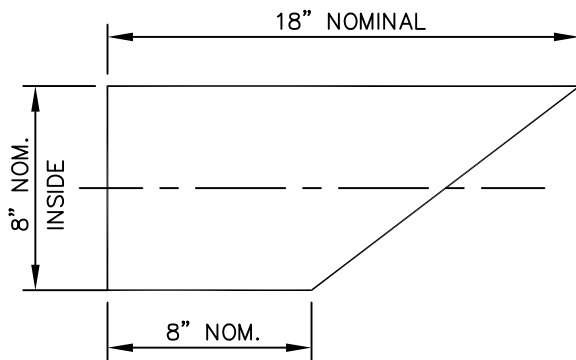
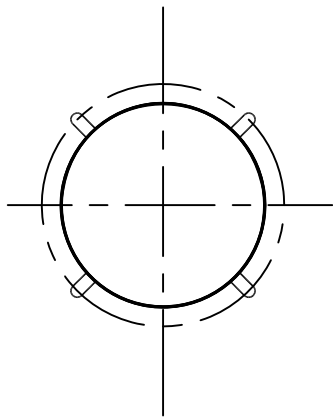
DATE

DWG. NO. 404.1034

SHEET 1 OF 1

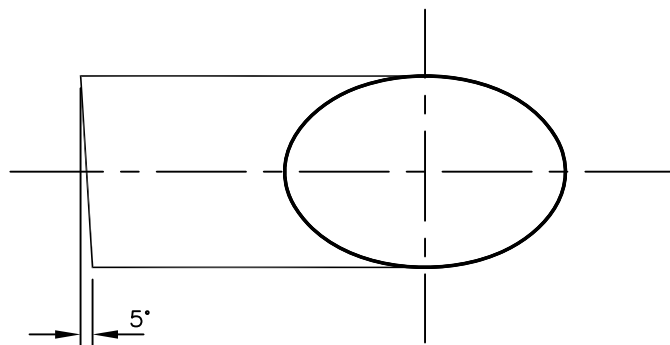


STANDARD FULL CIRCLE VISOR



LEFT ANGLE—SHOWN  
RIGHT ANGLE—REVERSE

STANDARD ANGLE VISOR



VISORS ( FOR 8" HEADS )

PAINT: FLAT BLACK ON INSIDE,  
OUTSIDE PAINT COLOR SHALL  
MATCH SIGNAL HOUSING.

SPECIFICATION REFERENCE

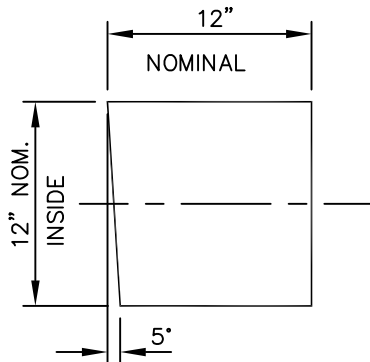
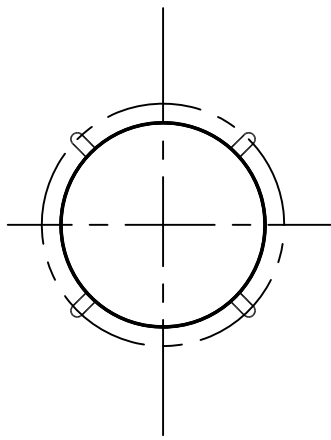
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

VISORS  
FOR 8" SIGNALS

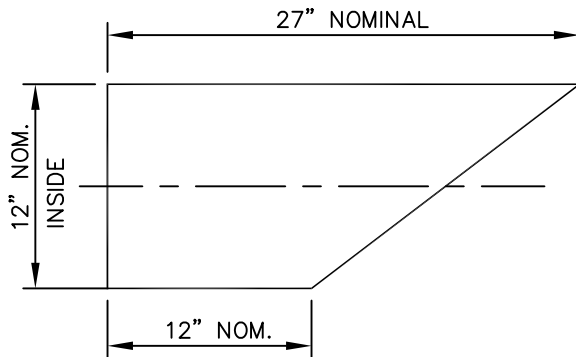
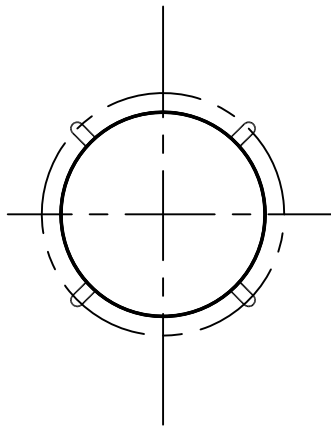
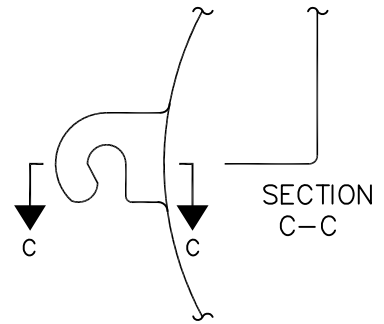
DATE

DWG. NO. 404.1100

SHEET 1 OF 3

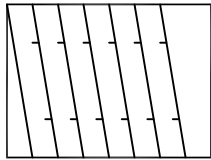


STANDARD FULL CIRCLE VISOR

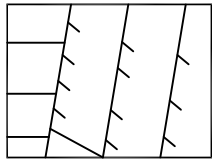


LEFT ANGLE—SHOWN  
RIGHT ANGLE—REVERSE

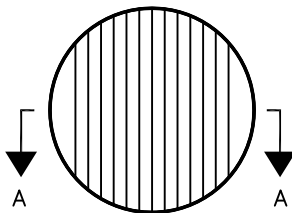
STANDARD ANGLE VISOR



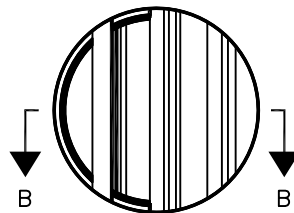
SECTION A-A



SECTION B-B

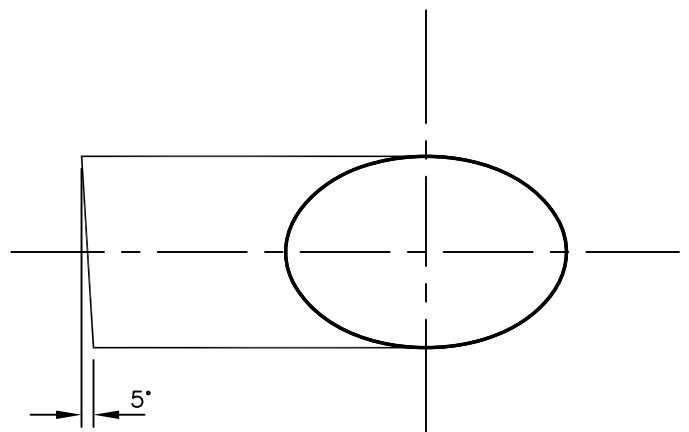


6 VANE  
3° CUTOFF



3 VANE  
7° CUTOFF

DIRECTIONAL LOUVERS  
PAINT: FLAT BLACK



VISORS ( FOR 12" HEADS )

PAINT: FLAT BLACK ON INSIDE,  
OUTSIDE PAINT COLOR SHALL  
MATCH SIGNAL HOUSING.

SPECIFICATION REFERENCE

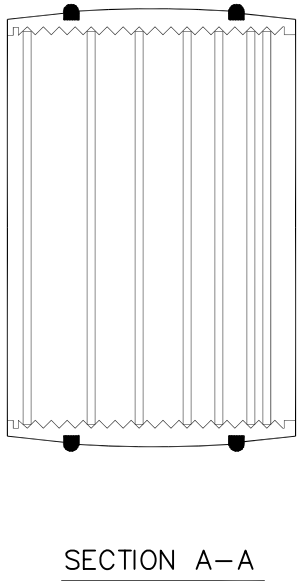
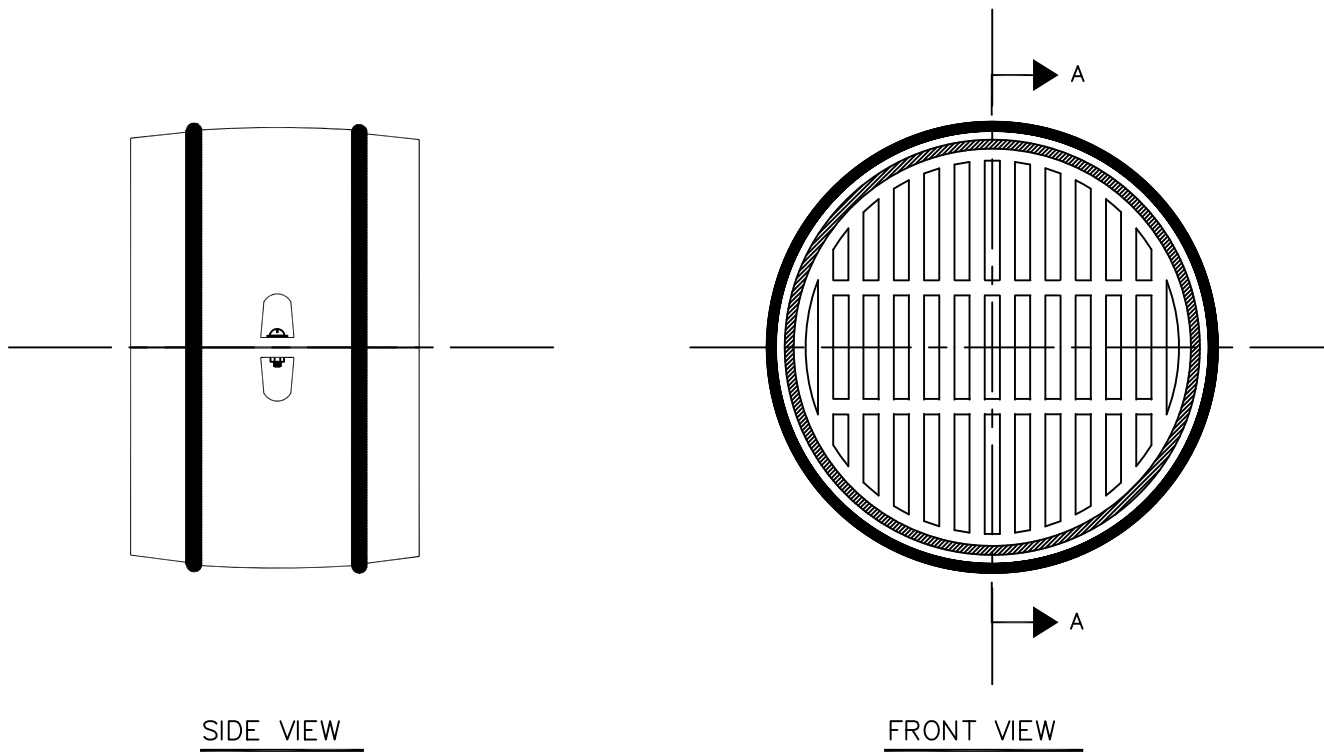
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

LOUVERS AND VISORS  
FOR 12" SIGNALS

DATE

DWG. NO. 404.1100

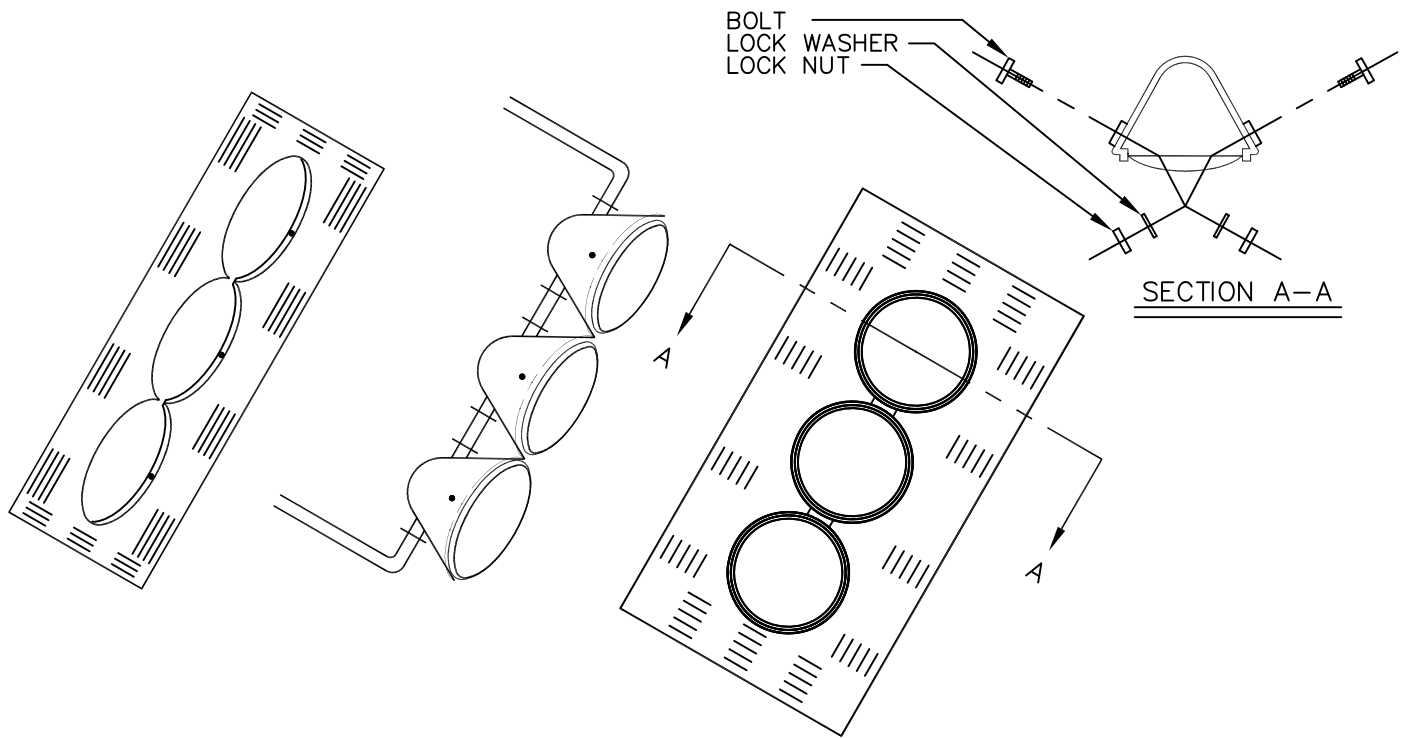
SHEET 2 OF 3



SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

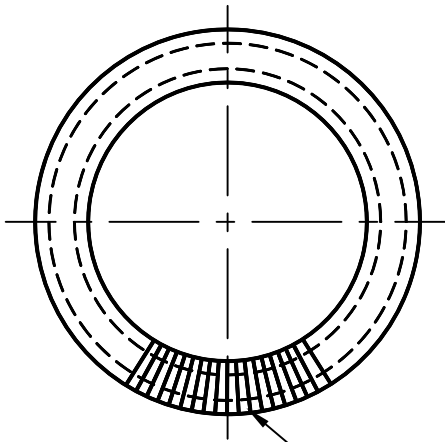
GEOMETRICALLY PROGRAMMED  
LOUVER



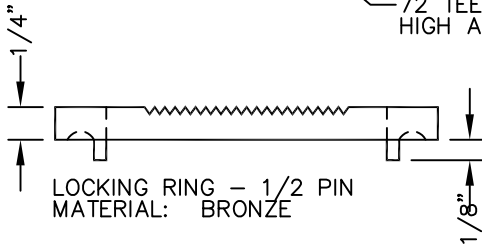
**NOTE:**

ALL BOLTS, NUTS AND WASHERS SHALL BE BRASS OR STAINLESS STEEL.

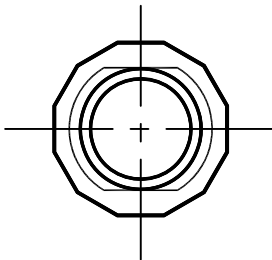
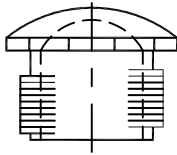
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		BACKPLATE AND SIGNAL HEAD ASSEMBLY	
		DATE 12-12-96	DWG. NO. 404.1101
		SHEET 1 OF 1	



72 TEETH - 1/2" HIGH ALL AROUND



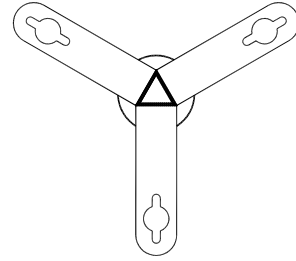
LOCKING RING - 1/2 PIN  
MATERIAL: BRONZE



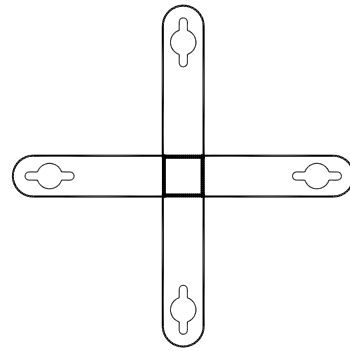
ORNAMENTAL CAP  
DIE CAST ALUMINUM  
PAINT COLOR SHALL MATCH  
SIGNAL HOUSING



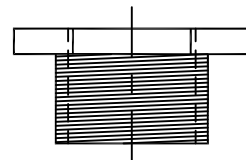
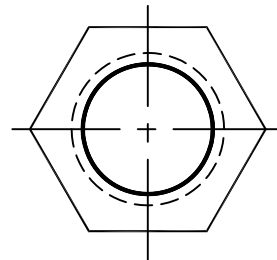
TIE BRACE, FERROUS, 2 WAY  
PAINT COLOR SHALL MATCH  
SIGNAL HOUSING



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



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



LOCKING NIPPLE

SPECIFICATION REFERENCE

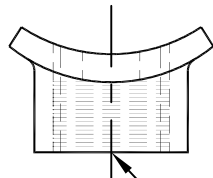
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

MISCELLANEOUS SIGNAL  
MOUNTING HARDWARE

DATE

DWG. NO. 404.1200

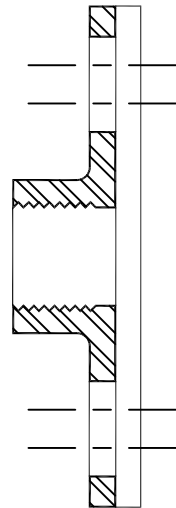
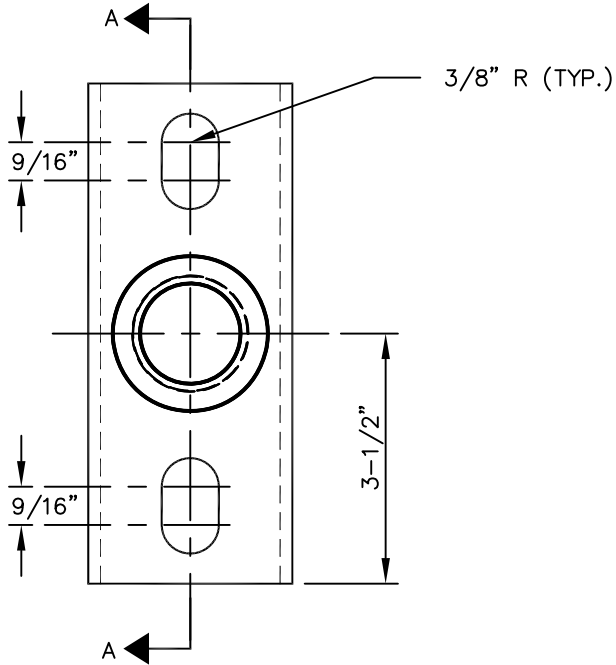
SHEET 1 OF 1



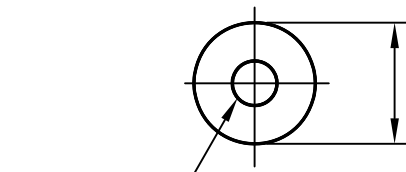
1-1/2" PIPE THREADS

NOTES:

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

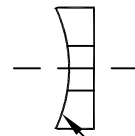


SECTION A-A



5/8" HOLE

CURVED WASHER



WASHER CURVED TO FIT STANDARD

DO NOT PROVIDE UNLESS SPECIFIED ON THE PLANS.

SPECIFICATION REFERENCE

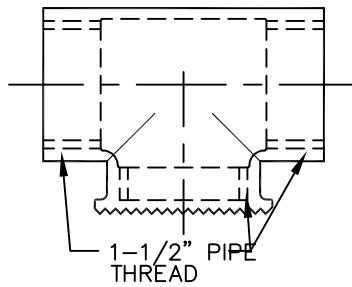
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POLE PLATE  
DETAILS

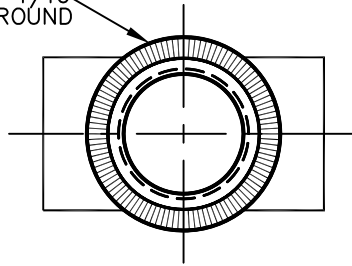
DATE

DWG. NO. 404.1201

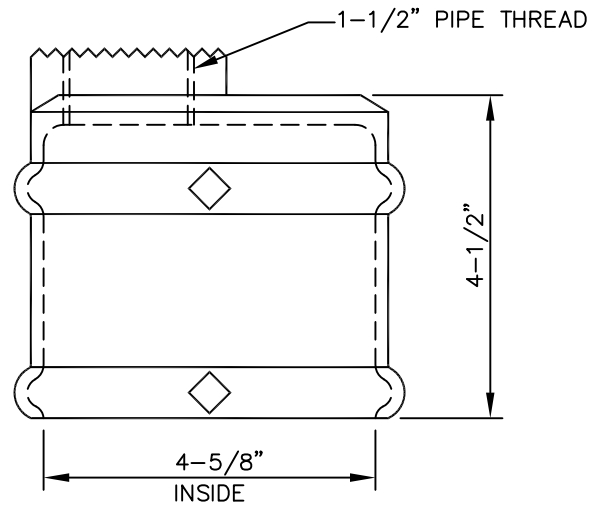
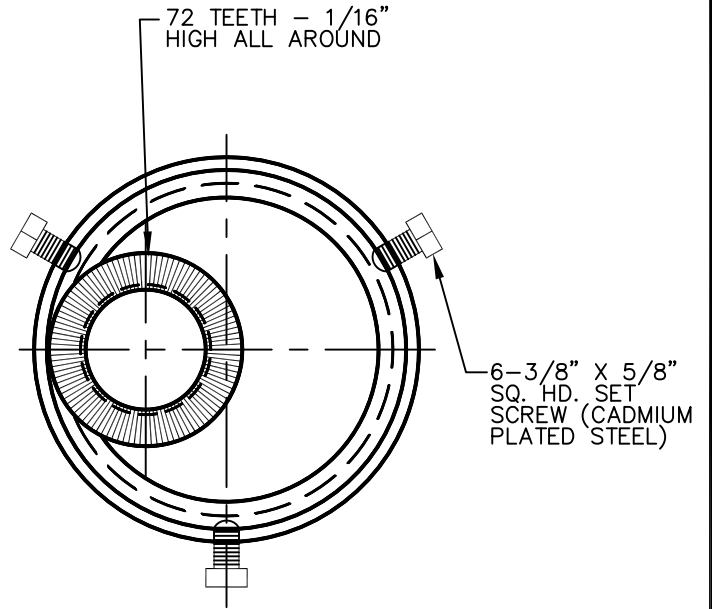
SHEET 1 OF 1



72 TEETH - 1/16"  
HIGH ALL AROUND



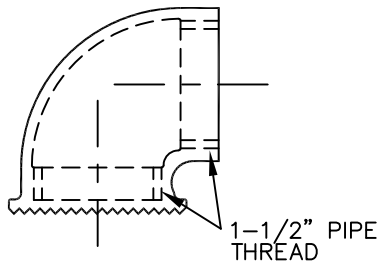
FERROUS SPECIAL TEE  
PAINT COLOR SHALL MATCH  
SIGNAL HOUSING



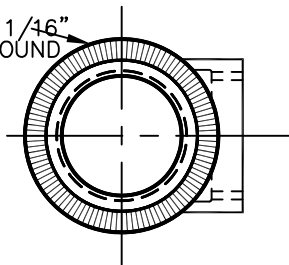
POST TOP MOUNTED BRACKET WITH  
SERRATED OFFSET MOUNT.

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

MATERIAL: BRONZE  
PAINT COLOR SHALL MATCH  
SIGNAL HOUSING



72 TEETH - 1/16"  
HIGH ALL AROUND



FERROUS SPECIAL ELBOW  
PAINT COLOR SHALL MATCH  
SIGNAL HOUSING

SPECIFICATION REFERENCE

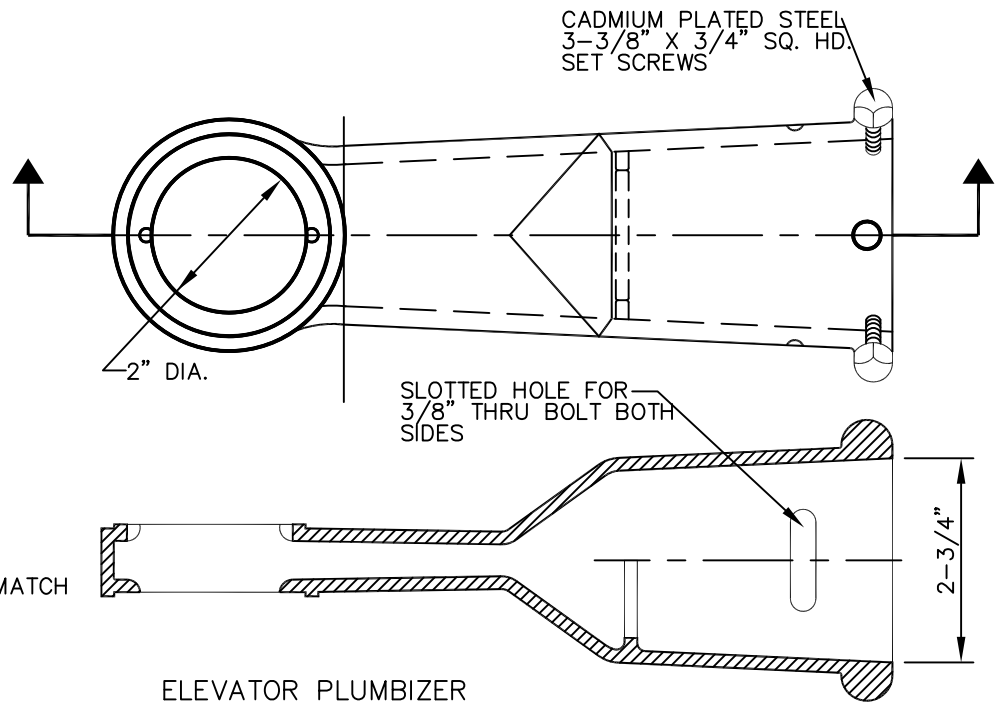
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

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

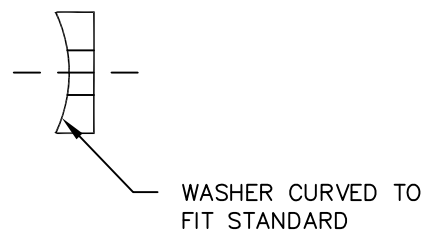
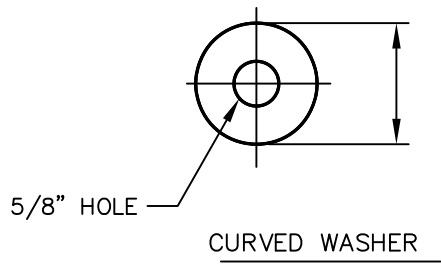
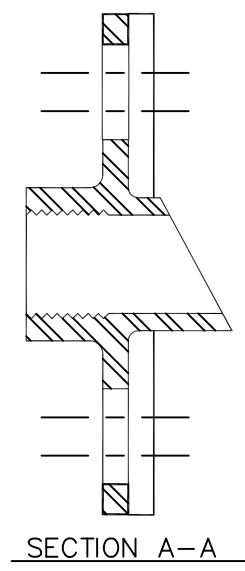
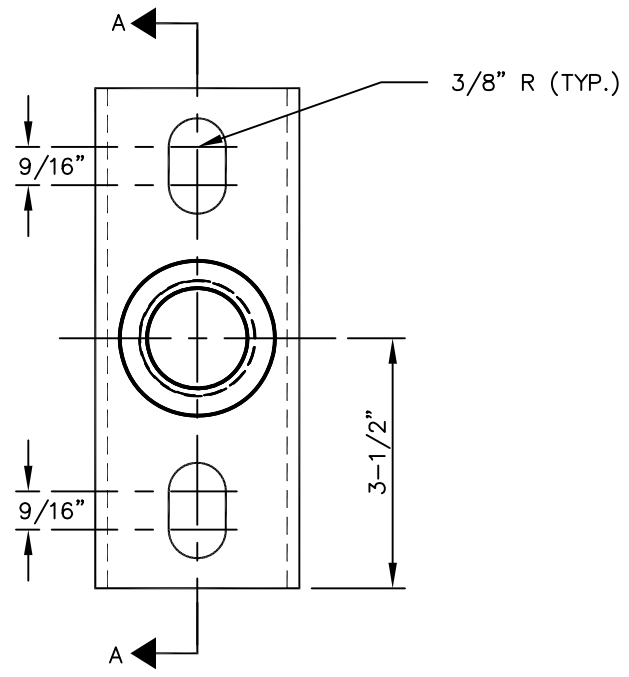
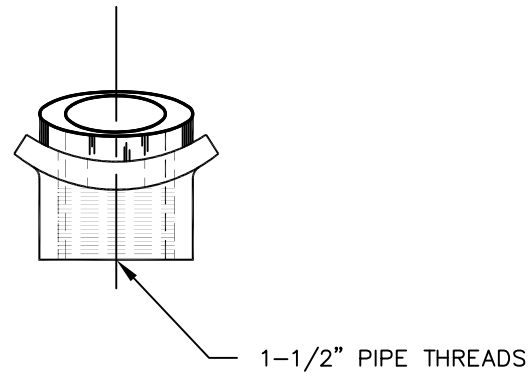
DATE

DWG. NO. 404.1203

SHEET 1 OF 1

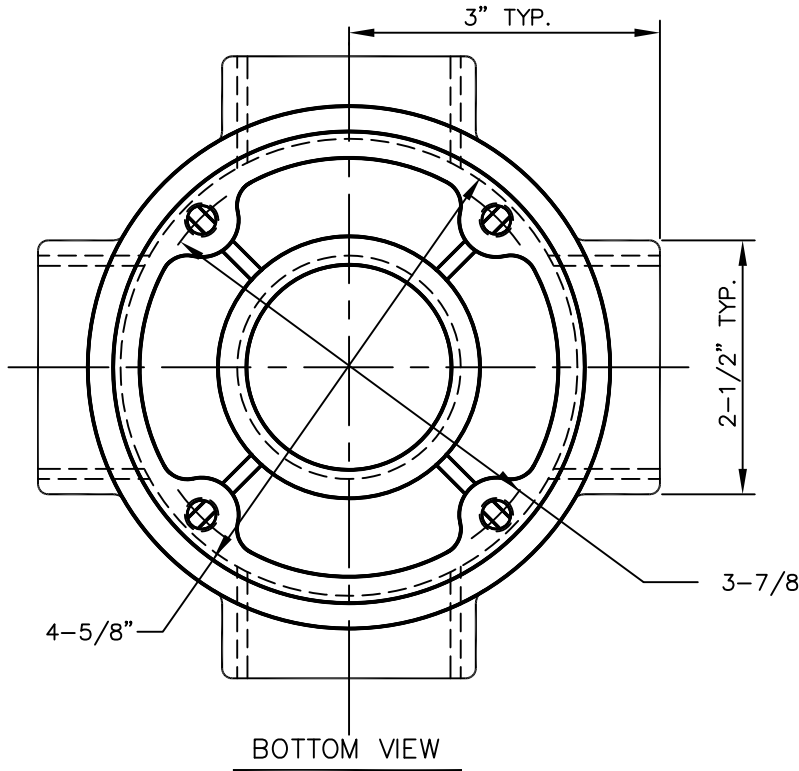
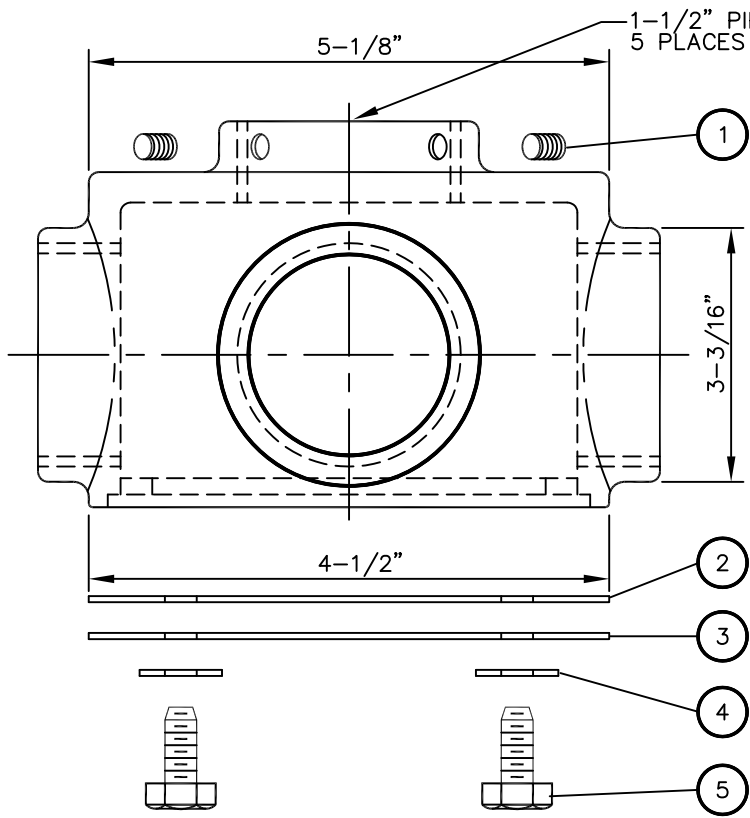
NOTES:

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



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

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

ITEM	QU.	DESCRIPTION
1.	2	1/4" - 20 UNC-2A X 3/8" SOCKET, CUP SET SCREW
2.	1	CORK GASKET TO MATCH COVER
3.	1	3/32" STEEL COVER WITH 2 BOLT HOLES OPPOSITE
4.	2	STANDARD LOCK WASHER
5.	5	3/8" - 16 UNC-2A X 1" BRASS HEX. HD CAP SCREW 2 REQ.

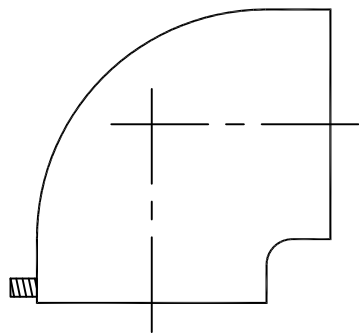
NOTES:

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

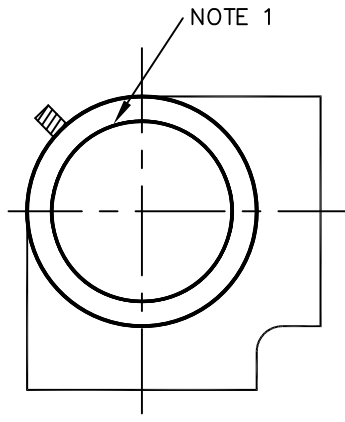
SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

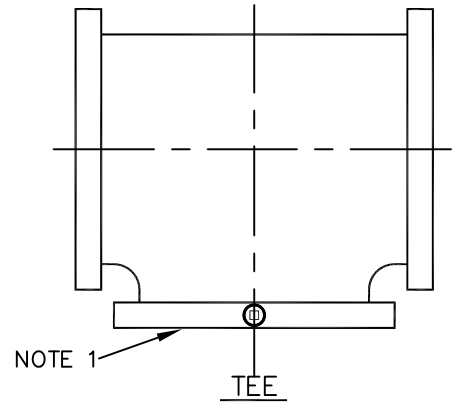
4 WAY CENTER HUB



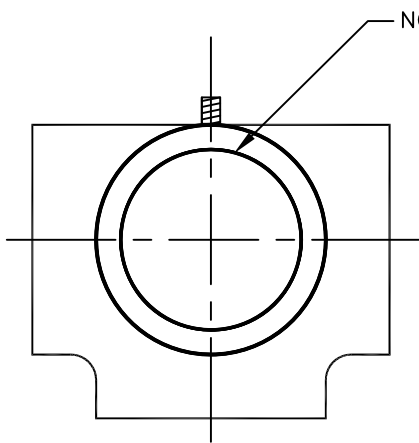
ELBOW



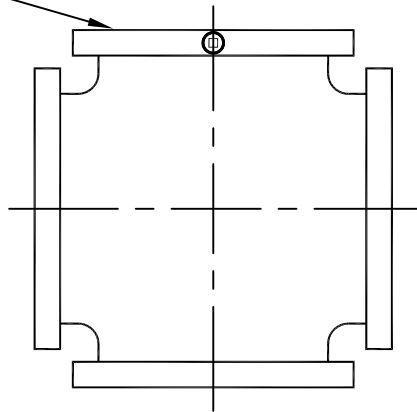
ELBOW WITH  
SIDE OUTLET



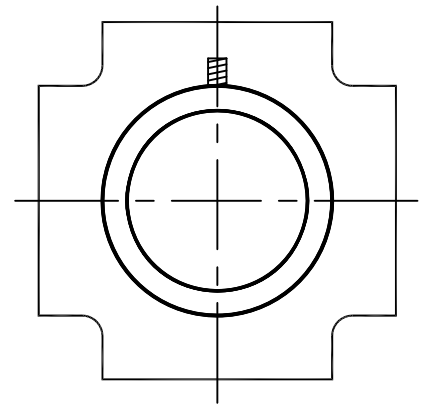
TEE



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.

SPECIFICATION REFERENCE

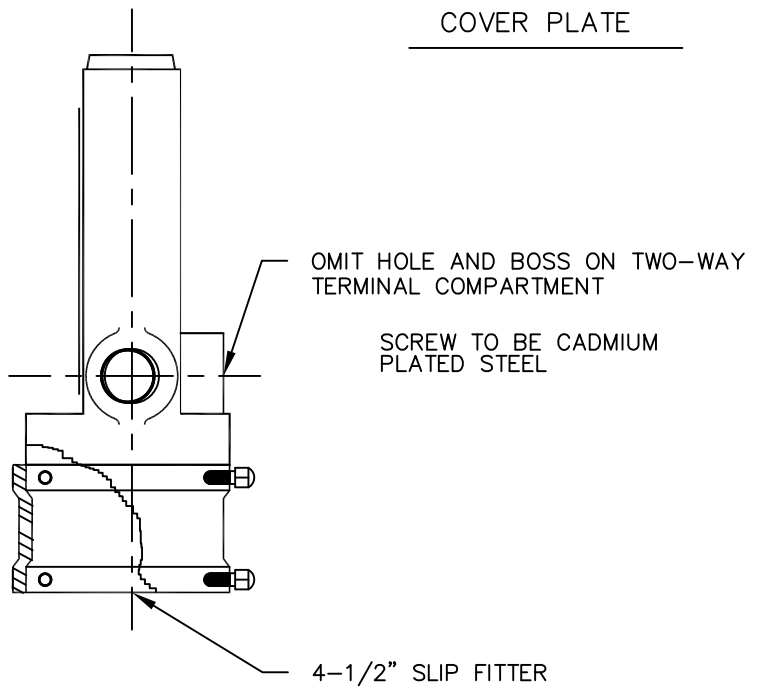
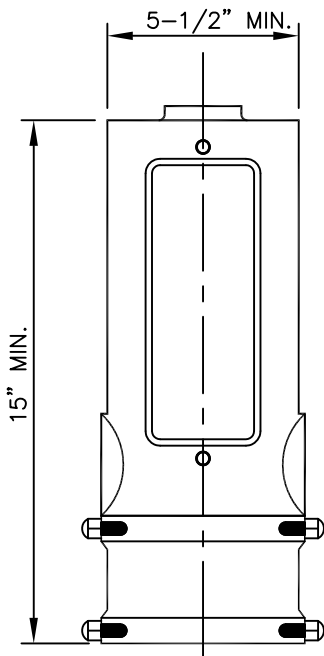
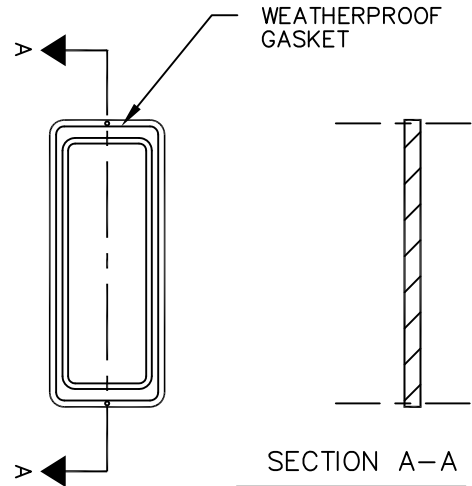
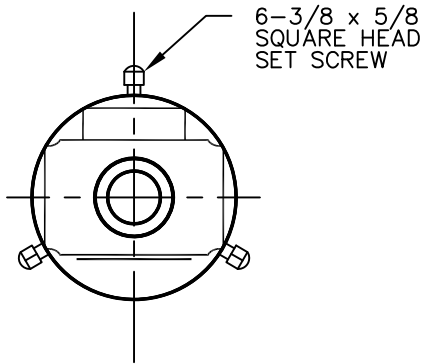
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

STANDARD MALLEABLE  
PIPE HARDWARE- 1-1/2" IPS

DATE

DWG. NO. 404.1206

SHEET 1 OF 1



NOTES:

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

SPECIFICATION REFERENCE

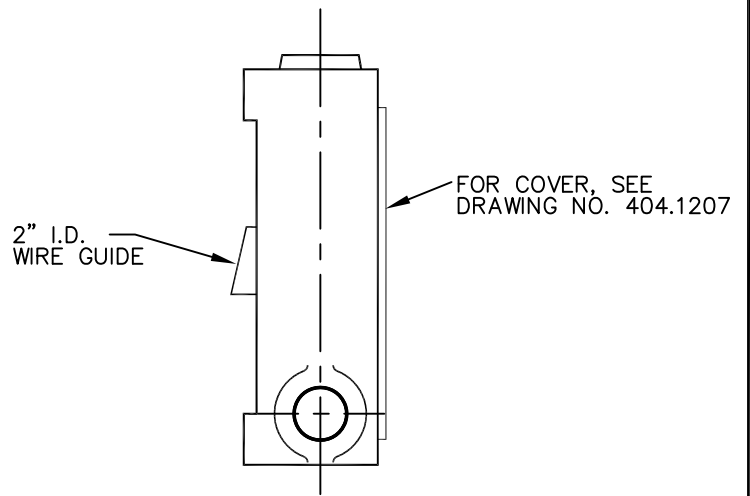
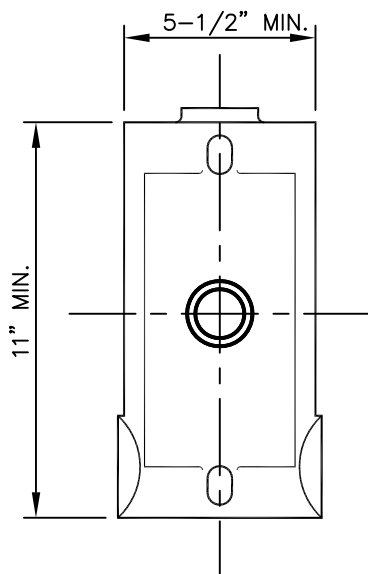
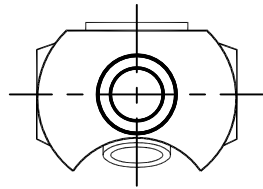
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POST TOP MOUNTED ADAPTER  
WITH TERMINAL COMPARTMENT

DATE

DWG. NO. 404.1207

SHEET 1 OF 1



NOTES:

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

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

SIDE BRACKET MOUNTED  
ADAPTER WITH WIRE GUIDE

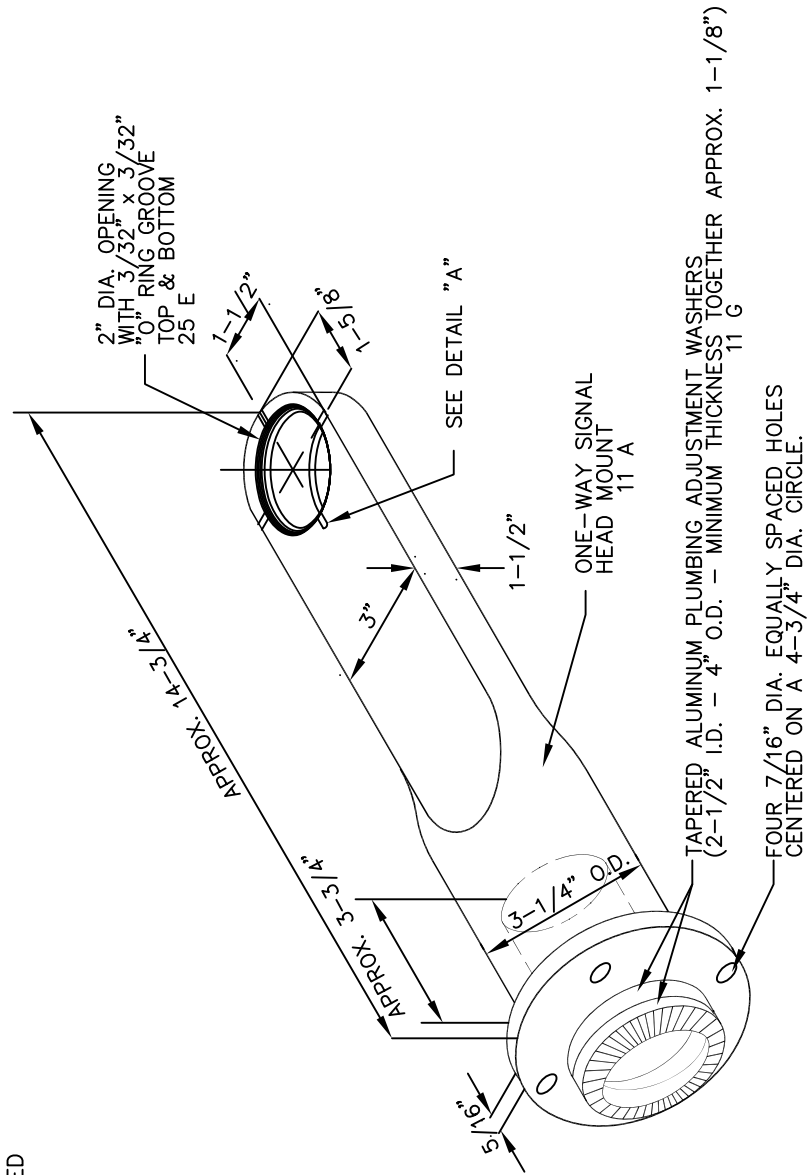
DATE

DWG. NO. 404.1208

SHEET 1 OF 1

NOTES:

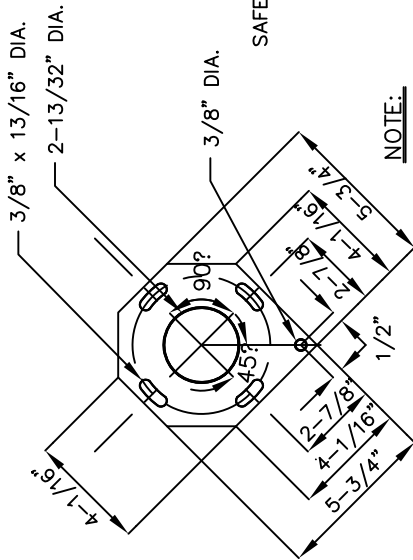
1. THE DEVICES WILL BE CONSTRUCTED OR CAST IN ACCORDANCE WITH SPECIAL PATENTED DEVICES, MATERIALS, AND PROCESSES.
2. SIGNAL HEAD MOUNT AND FLANGE ADAPTER WILL BE OF HIGH STRENGTH CAST ALUMINUM.
3. SIGNAL HEAD MOUNT SHALL BE FASTENED TO FLANGE ADAPTER BY MEANS OF FOUR COMMON STRUCTURAL STEEL BOLTS PER 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.



ONE-WAY MOUNT  
32 A

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
		ONE WAY MOUNT	
DATE	DWG. NO. 404.1210	SHEET 1 OF 1	



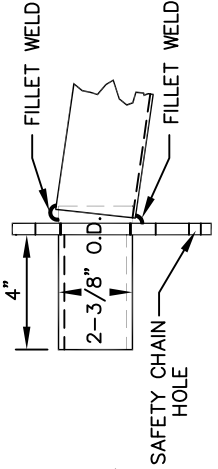
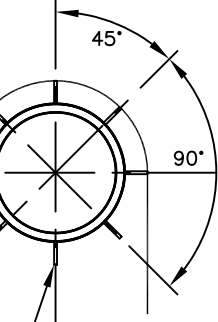


FOUR 1/16" PROTRUSIONS FOR SIGNAL HEAD DEPRESSIONS ON BOTH EXTERIOR SIDES.

TWO-WAY

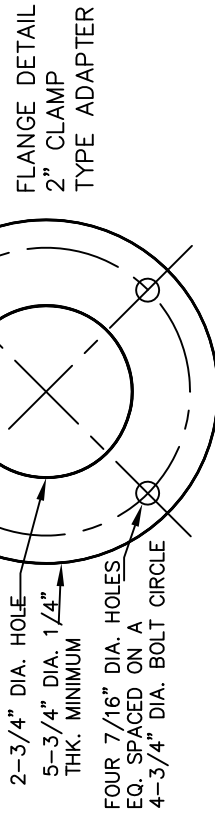
ONE-WAY

DETAIL "A"



**NOTE:**

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

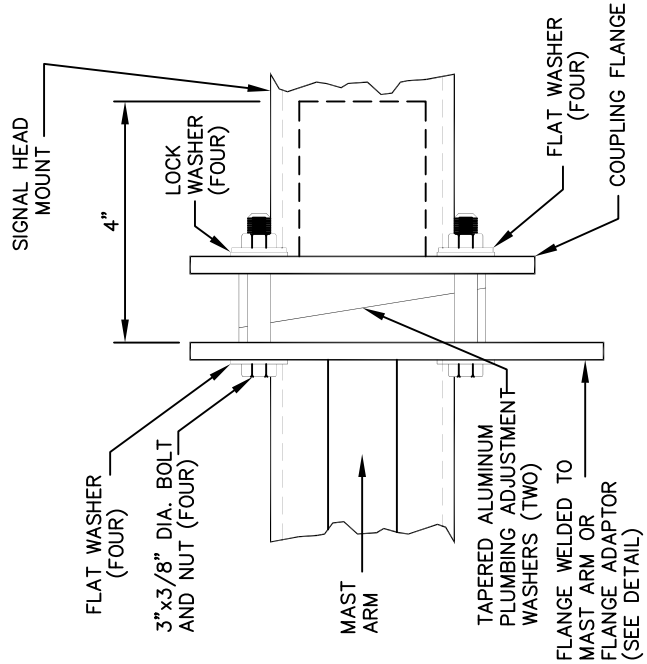


2-3/4" DIA. HOLE

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

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

FLANGE DETAIL  
2" WELDED TYPE ADAPTER



SIGNAL HEAD MOUNT

LOCK WASHER (FOUR)

FLAT WASHER (FOUR)

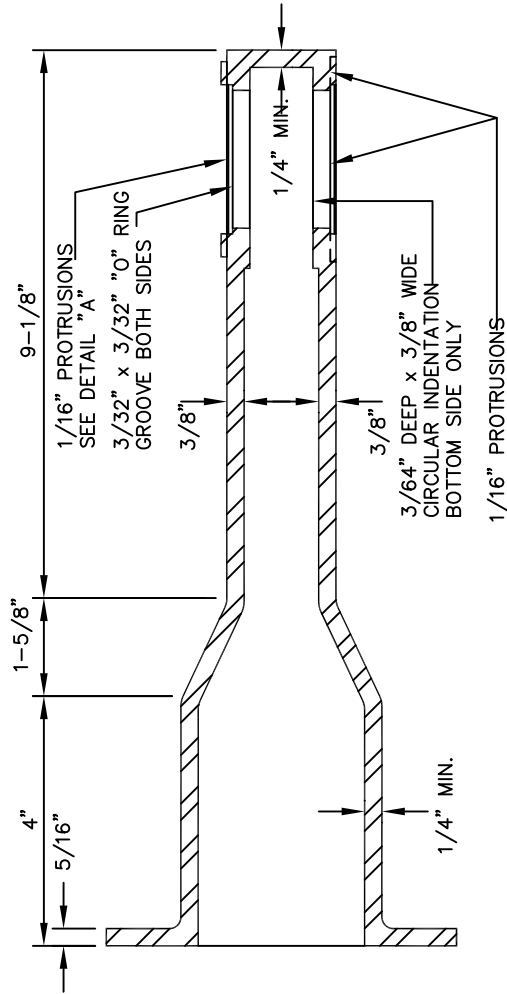
3"x3/8" DIA. BOLT AND NUT (FOUR)

MAST ARM

TAPERED ALUMINUM PLUMBING ADJUSTMENT WASHERS (TWO)

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

ASSEMBLY DETAIL



1-5/8"

4"

5/16"

9-1/8"

1/16" PROTRUSIONS SEE DETAIL "A"

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

3/8"

1/4" MIN.

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

3/8"

1/16" PROTRUSIONS

SECTION THROUGH ONE-WAY MOUNT

SPECIFICATION REFERENCE

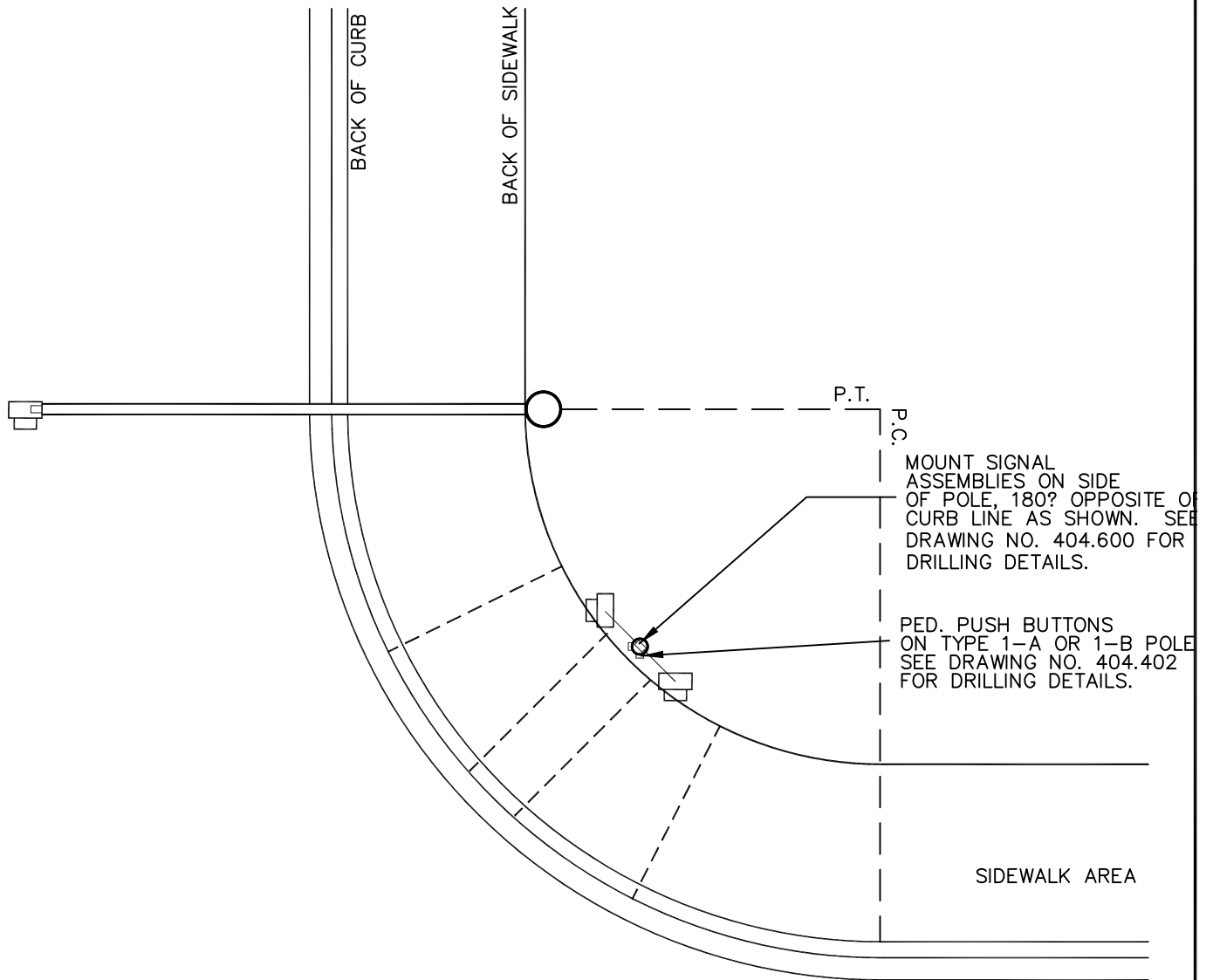
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

ONE WAY MOUNT  
DETAIL

DATE

DWG. NO. 404.1212

SHEET 1 OF 1



NOTE:

1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

SPECIFICATION REFERENCE

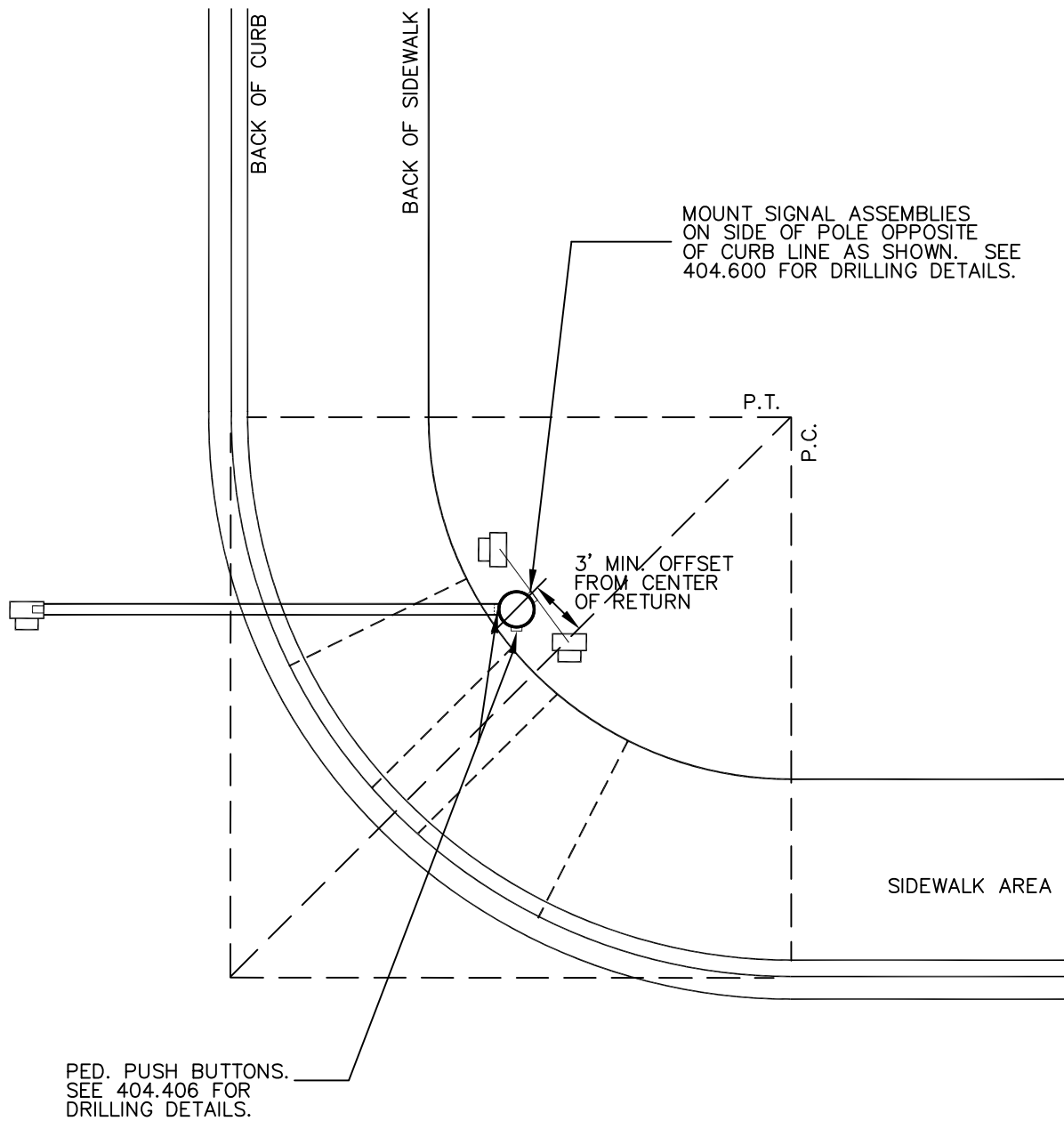
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POLE LOCATION & SIGNAL  
MOUNTING AT INTERSECTION  
(TWO POLE)  
CURBSIDE SIDEWALK

DATE 7-10-03

DWG. NO. 404.1300

SHEET 1 OF 2



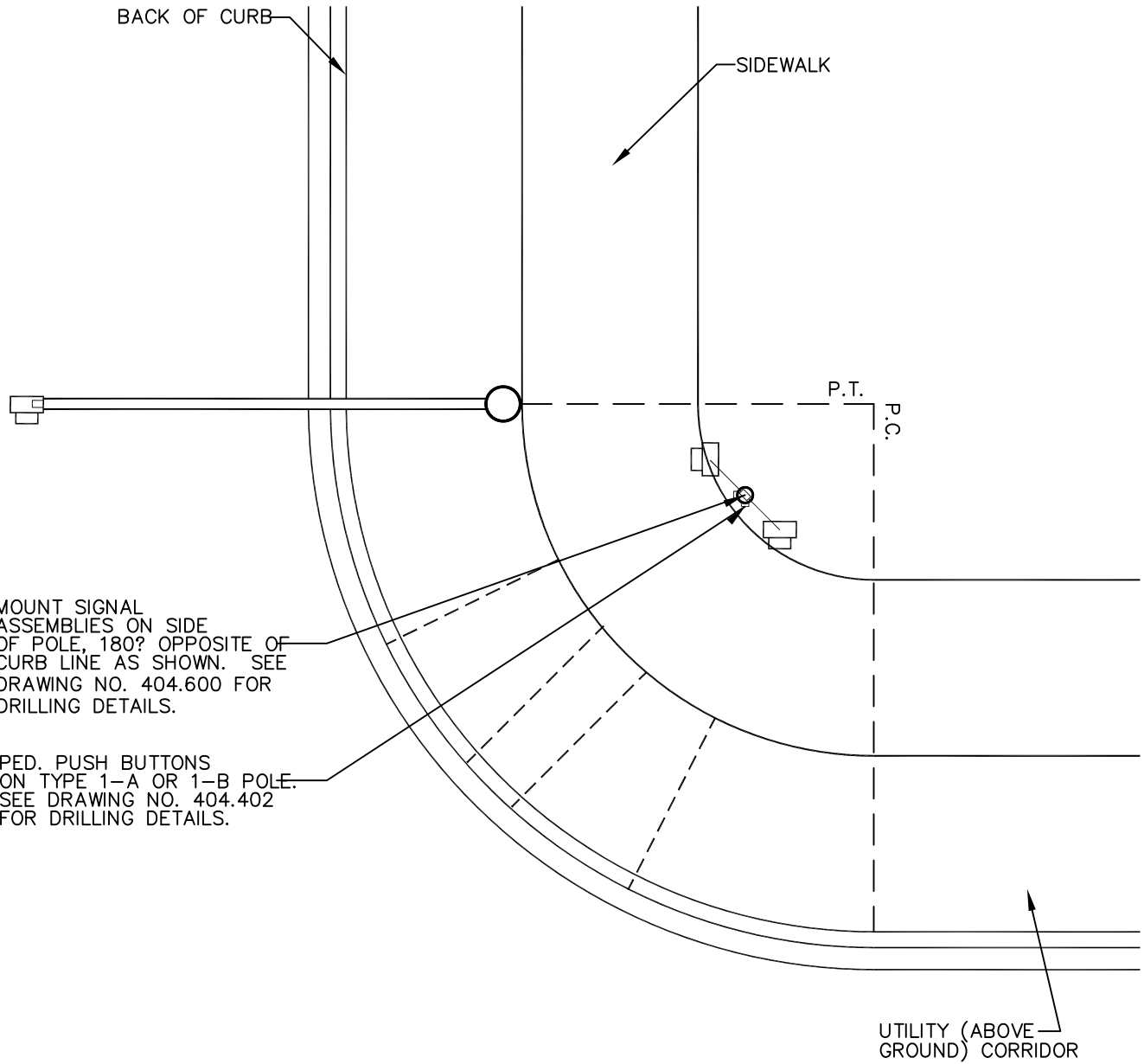
NOTE:

1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POLE LOCATION & SIGNAL  
MOUNTING AT INTERSECTION  
(SINGLE POLE)  
CURBSIDE SIDEWALK



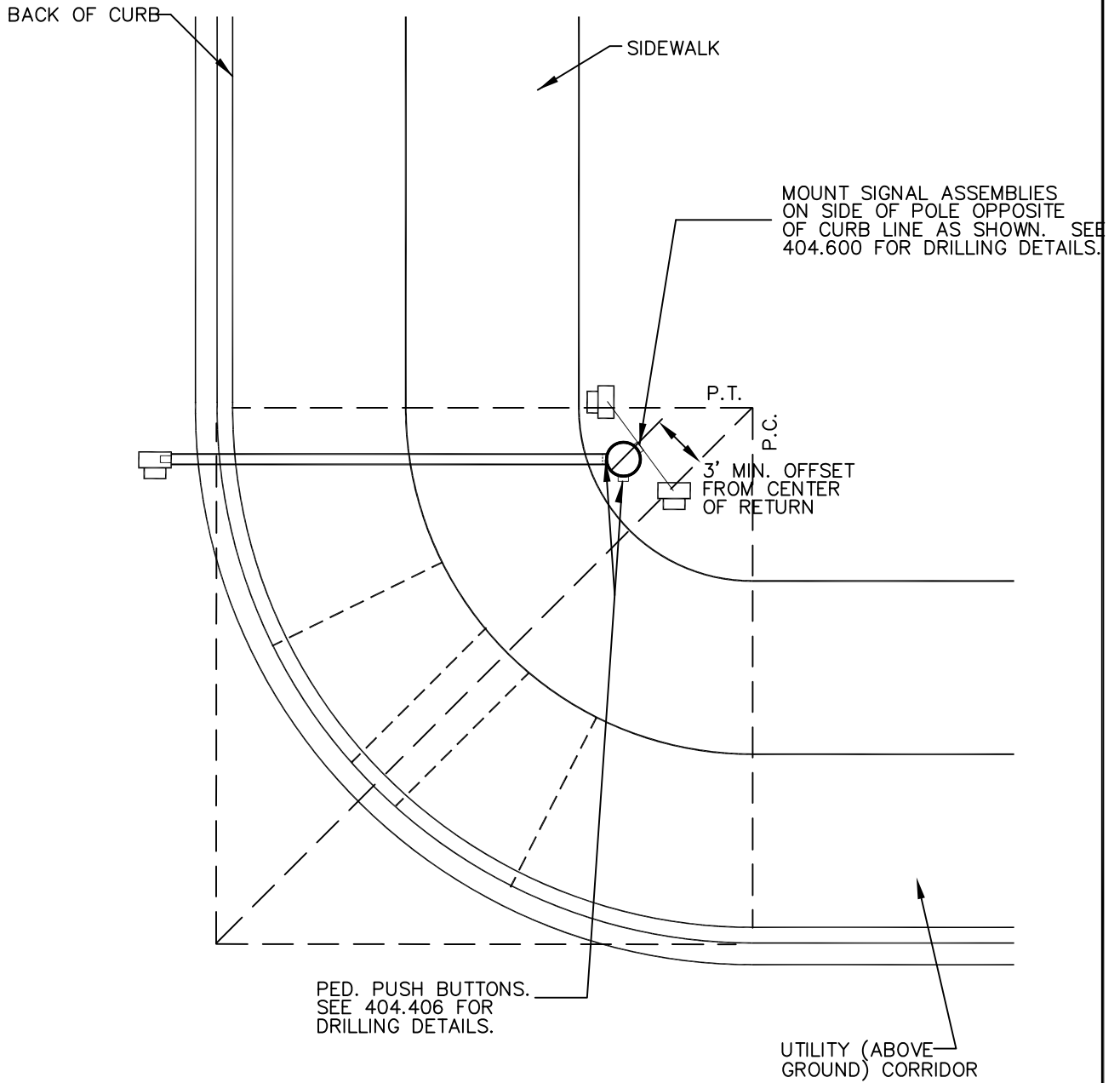
NOTE:

1. ALTERNATE LOCATIONS FOR THE POLES MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POLE LOCATION & SIGNAL  
MOUNTING AT INTERSECTION  
(TWO POLE)  
OFFSET SIDEWALK



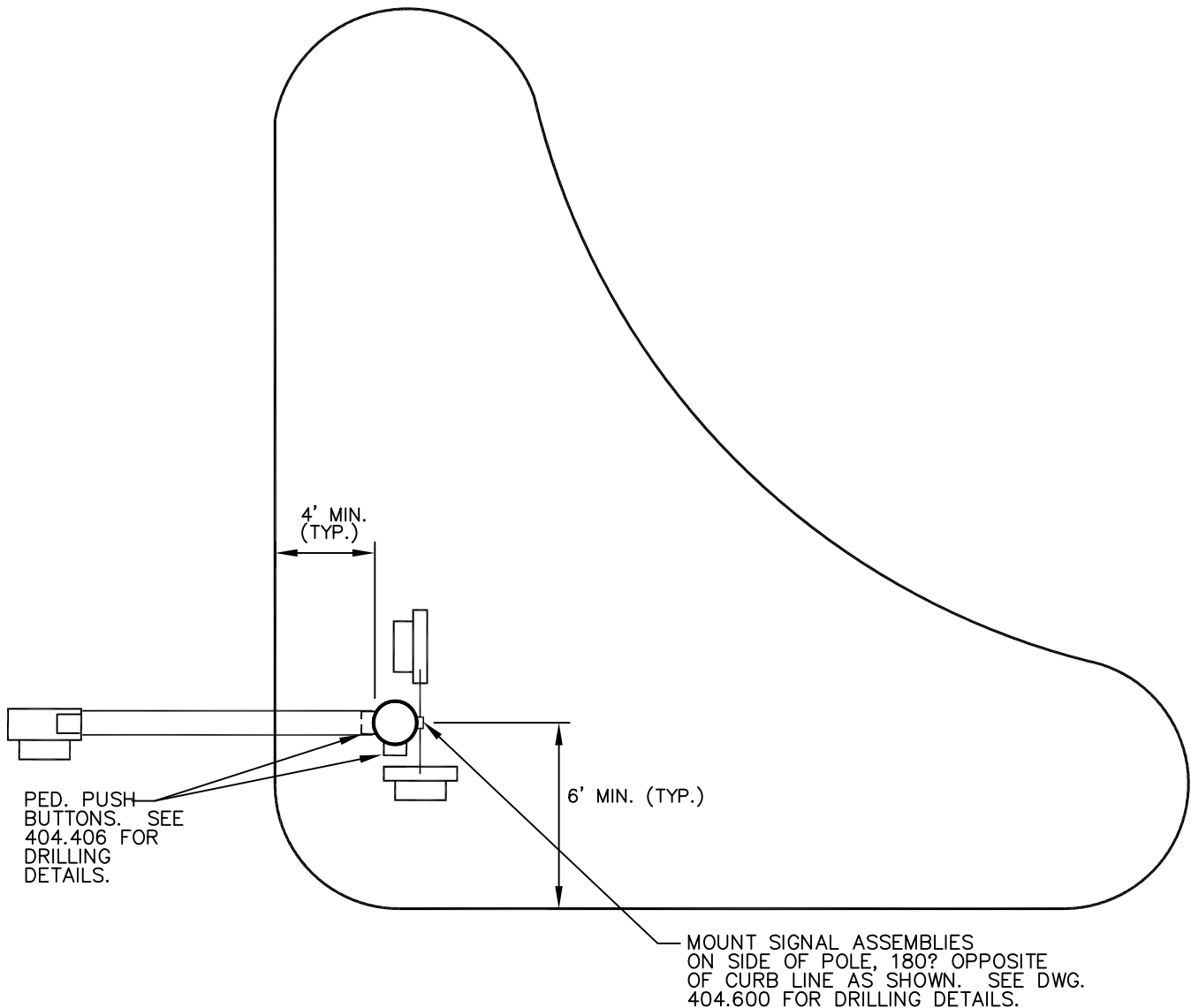
NOTE:

1. ALTERNATE LOCATIONS FOR THE SIGNAL POLE MAY BE APPROVED BY THE AGENCY'S TRAFFIC ENGINEER.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POLE LOCATION & SIGNAL  
MOUNTING AT INTERSECTION  
(SINGLE POLE)  
OFFSET SIDEWALK



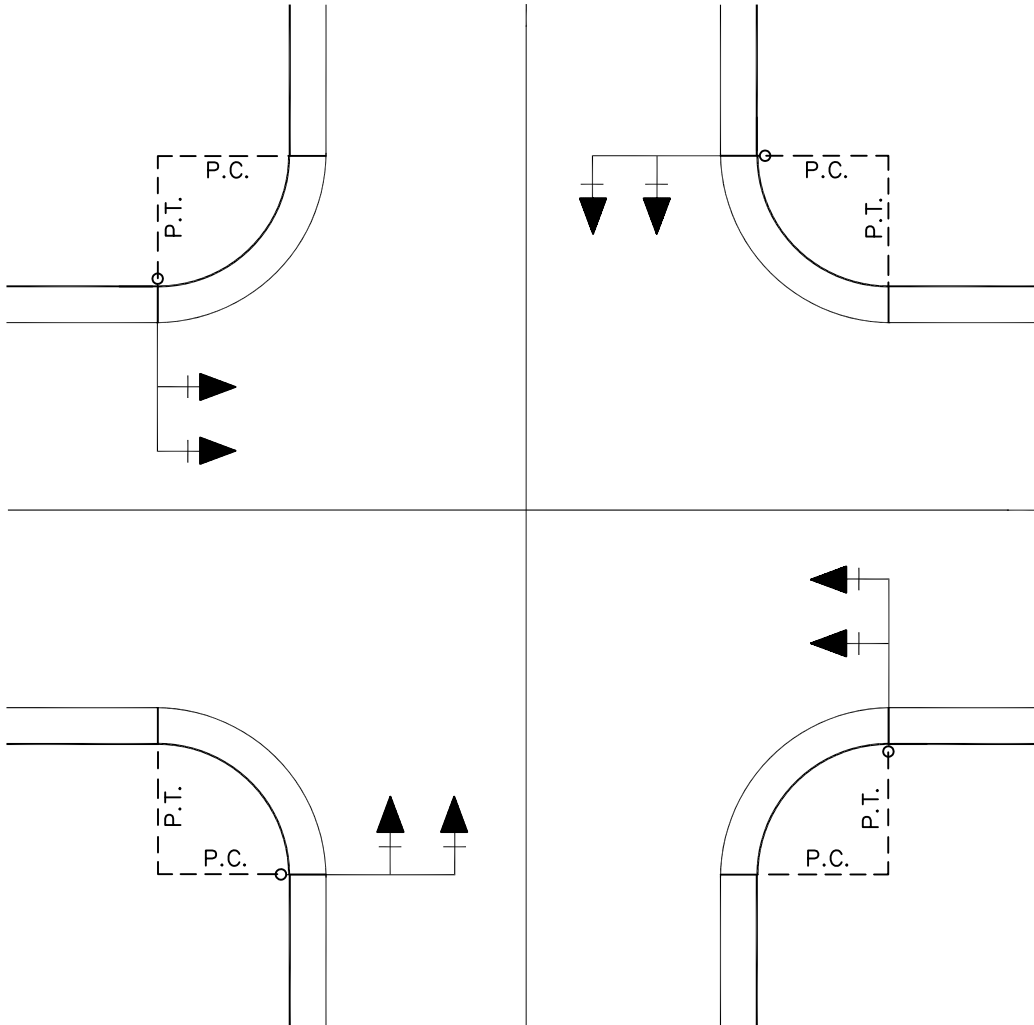
NOTE:

SIDEWALK RAMPS IN ACCORDANCE WITH DRAWING NO. 235 SHALL BE CONSTRUCTED. HANDICAPPED ACCESS MUST BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA).

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

POLE LOCATION AND SIGNALS  
MOUNTING ON RIGHT TURN ISLANDS



NOTE:

1. SEE PLANS FOR FOUNDATION TYPE.

SPECIFICATION REFERENCE

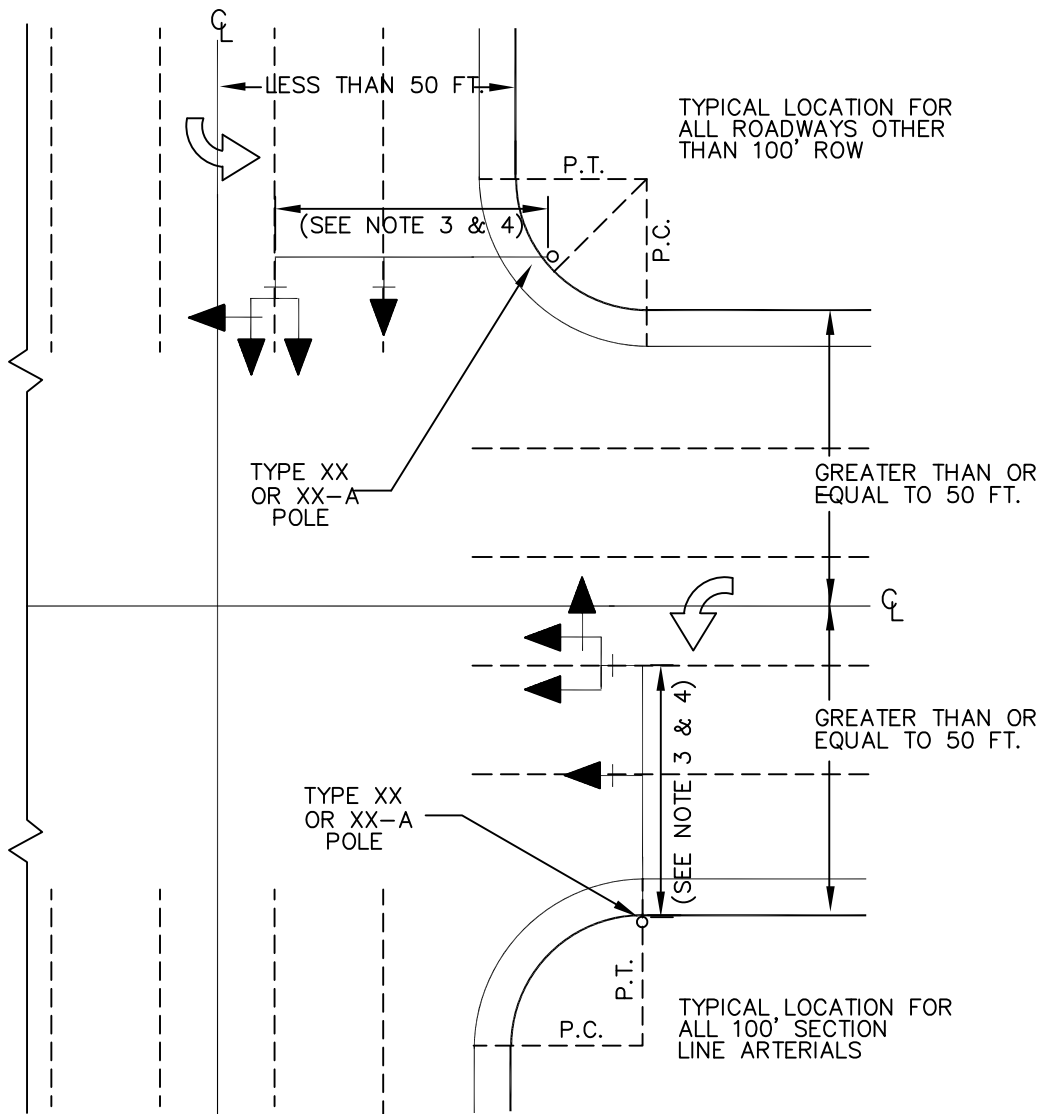
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

FUTURE POLE LOCATION  
CASE I  
(EXCEPT CITY OF LAS VEGAS)

DATE 12-12-96

DWG. NO. 404.1302

SHEET 1 OF 2



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.

SPECIFICATION REFERENCE

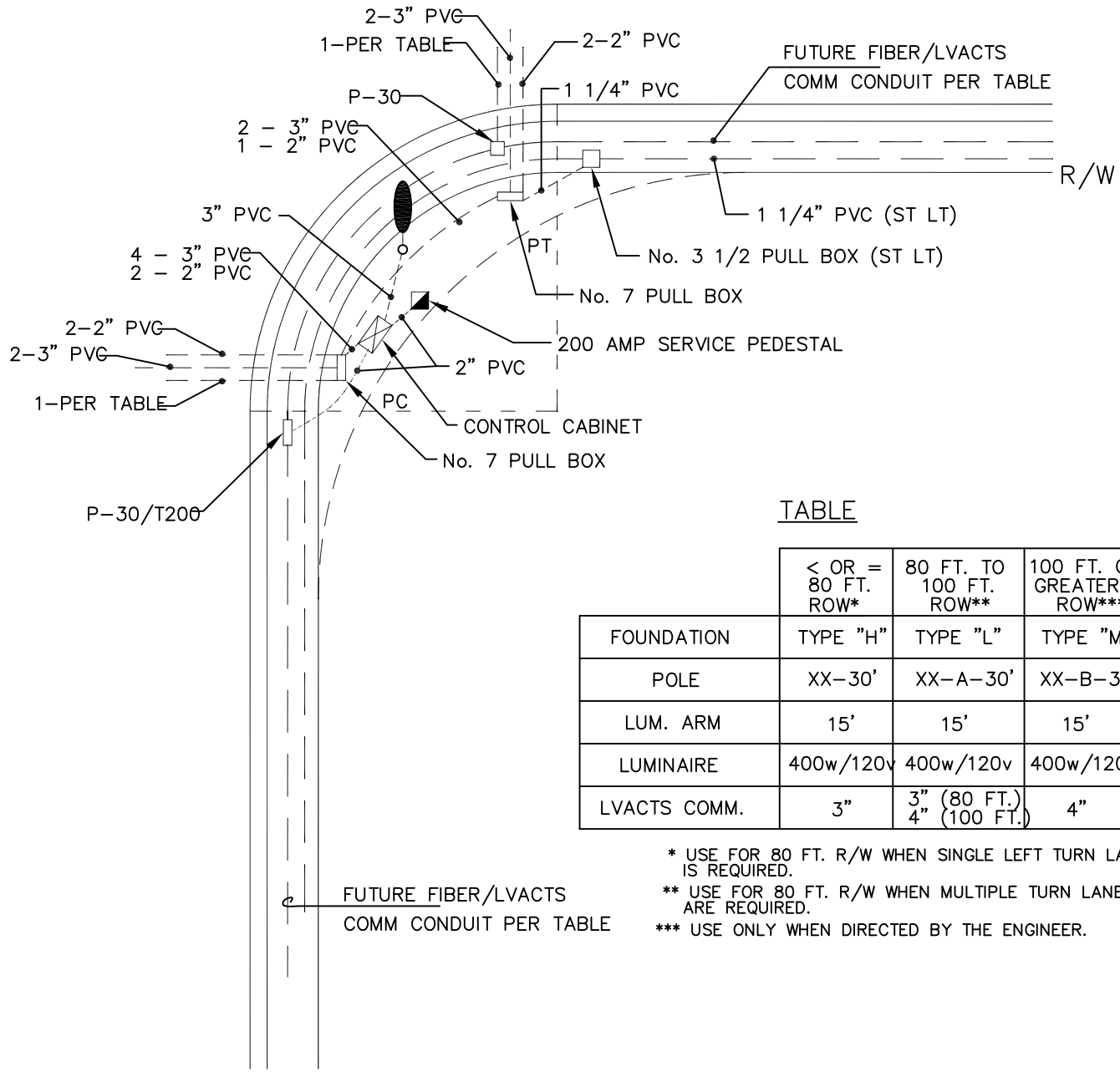
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

FUTURE POLE LOCATION  
CASE II

DATE 12-12-96

DWG. NO. 404.1302

SHEET 2 OF 2



**TABLE**

	< OR = 80 FT. ROW*	80 FT. TO 100 FT. ROW**	100 FT. OR GREATER ROW***
FOUNDATION	TYPE "H"	TYPE "L"	TYPE "M"
POLE	XX-30'	XX-A-30'	XX-B-30'
LUM. ARM	15'	15'	15'
LUMINAIRE	400w/120v	400w/120v	400w/120v
LVACTS COMM.	3"	3" (80 FT.) 4" (100 FT.)	4"

\* USE FOR 80 FT. R/W WHEN SINGLE LEFT TURN LANE IS REQUIRED.  
 \*\* USE FOR 80 FT. R/W WHEN MULTIPLE TURN LANES ARE REQUIRED.  
 \*\*\* USE ONLY WHEN DIRECTED BY THE ENGINEER.

**NOTES:**

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A.123.
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.

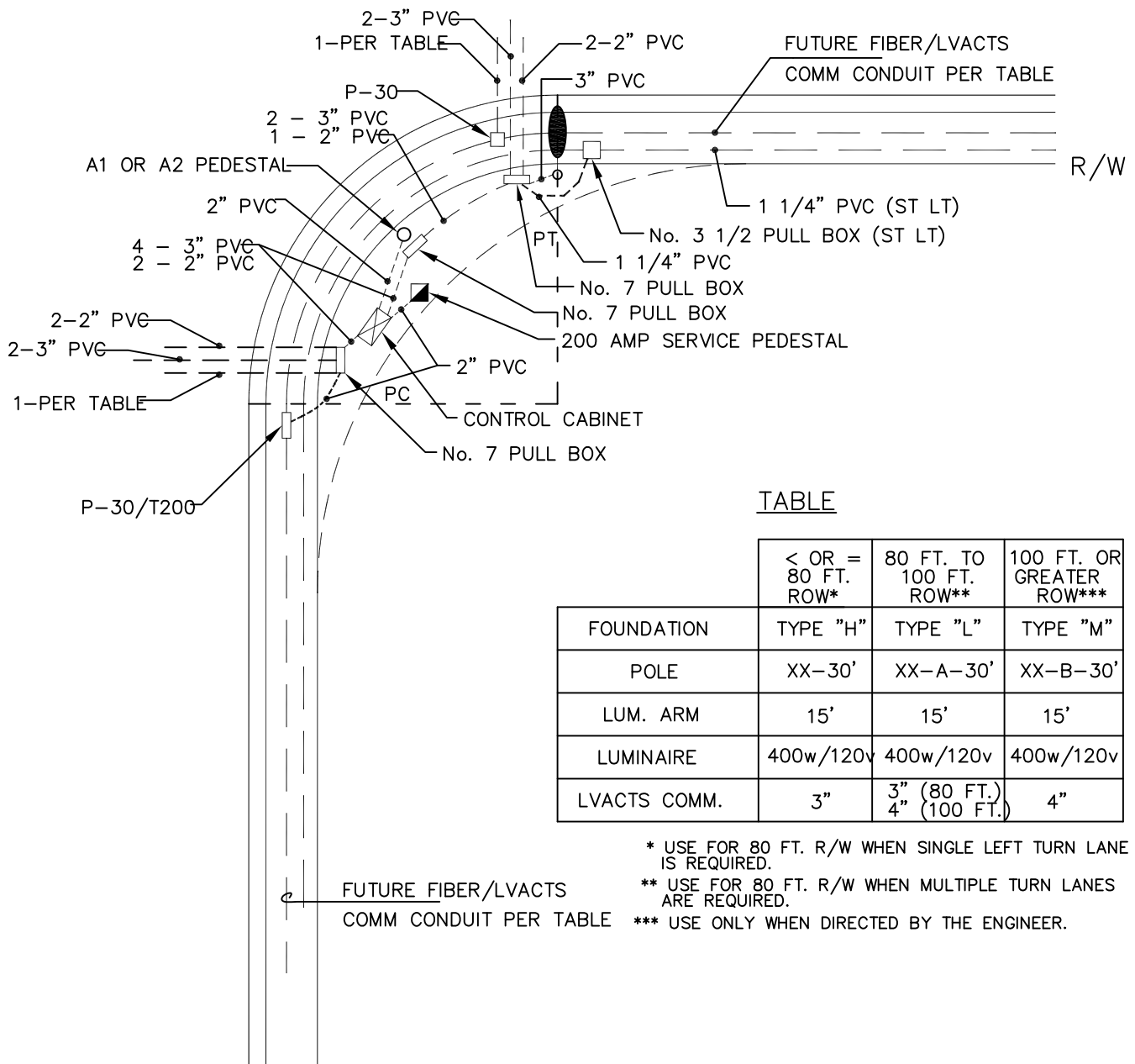
\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPICAL TRAFFIC SIGNAL UNDERGROUND  
LAYOUT WITH INTERIM STREET LIGHTING AND  
SERVICE PEDESTAL  
(CENTER OF CURVE RADIUS)

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



TABLE

	< OR = 80 FT. ROW*	80 FT. TO 100 FT. ROW**	100 FT. OR GREATER ROW***
FOUNDATION	TYPE "H"	TYPE "L"	TYPE "M"
POLE	XX-30'	XX-A-30'	XX-B-30'
LUM. ARM	15'	15'	15'
LUMINAIRE	400w/120v	400w/120v	400w/120v
LVACTS COMM.	3"	3" (80 FT.) 4" (100 FT.)	4"

\* USE FOR 80 FT. R/W WHEN SINGLE LEFT TURN LANE IS REQUIRED.

\*\* USE FOR 80 FT. R/W WHEN MULTIPLE TURN LANES ARE REQUIRED.

\*\*\* USE ONLY WHEN DIRECTED BY THE ENGINEER.

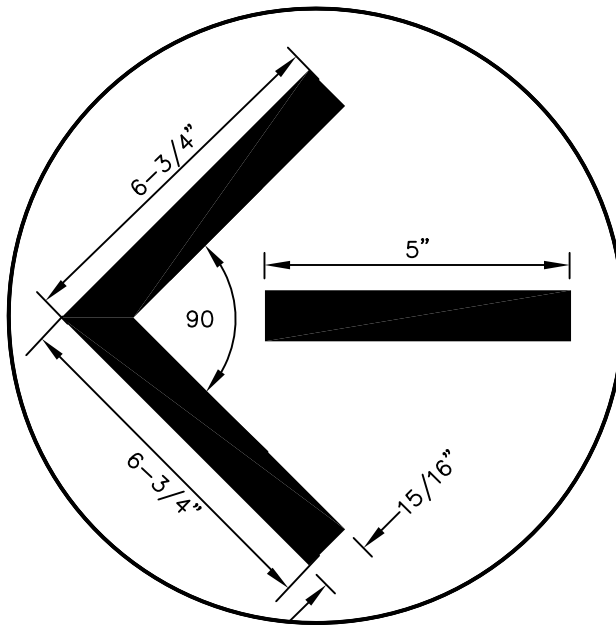
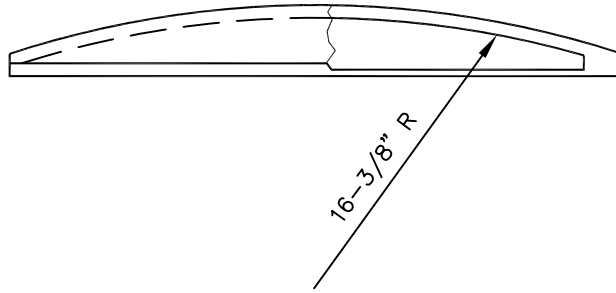
NOTES:

1. ALL TRAFFIC SIGNAL POLES SHALL BE GALVANIZED PER ASTM A.123.
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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

TYPICAL TRAFFIC SIGNAL UNDERGROUND  
LAYOUT WITH INTERIM STREET LIGHTING  
AND SERVICE PEDESTAL  
(END OF CURVE RADIUS)



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.

SPECIFICATION REFERENCE

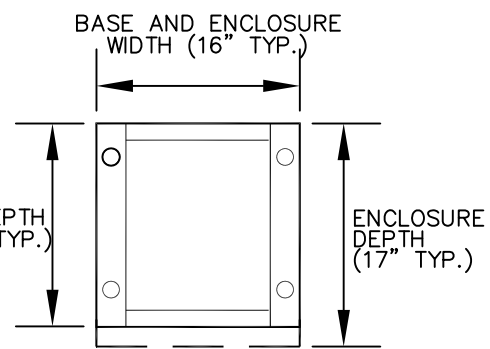
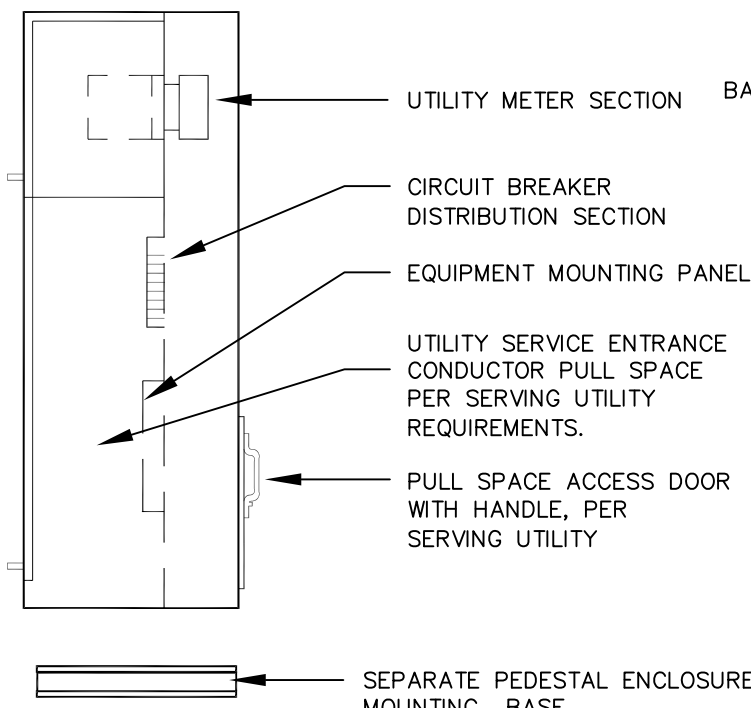
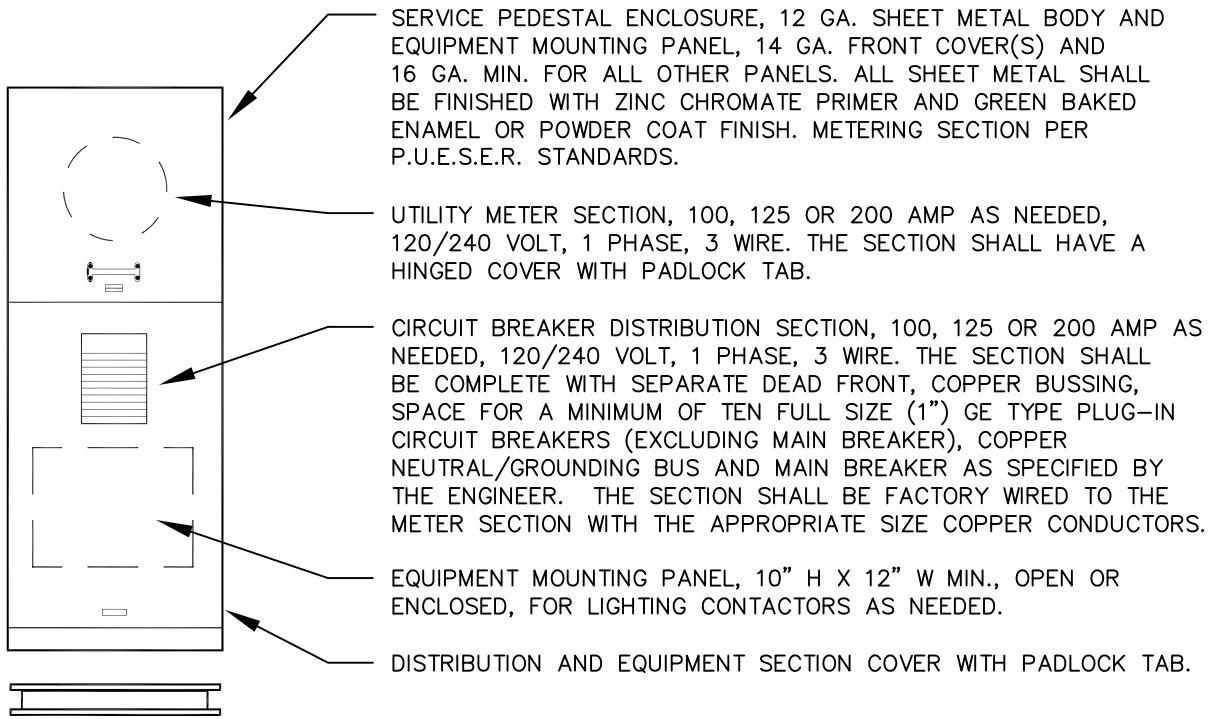
UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

12" ARROW  
LENS

DATE

DWG. NO. 404.1410

SHEET 1 OF 1



TYPICAL MOUNTING BASE DETAIL  
(DIMENSIONS MAY VARY DEPENDING ON MANUFACTURER)

\* PROFESSIONAL ELECTRICAL ENGINEER STAMP ON FILE.

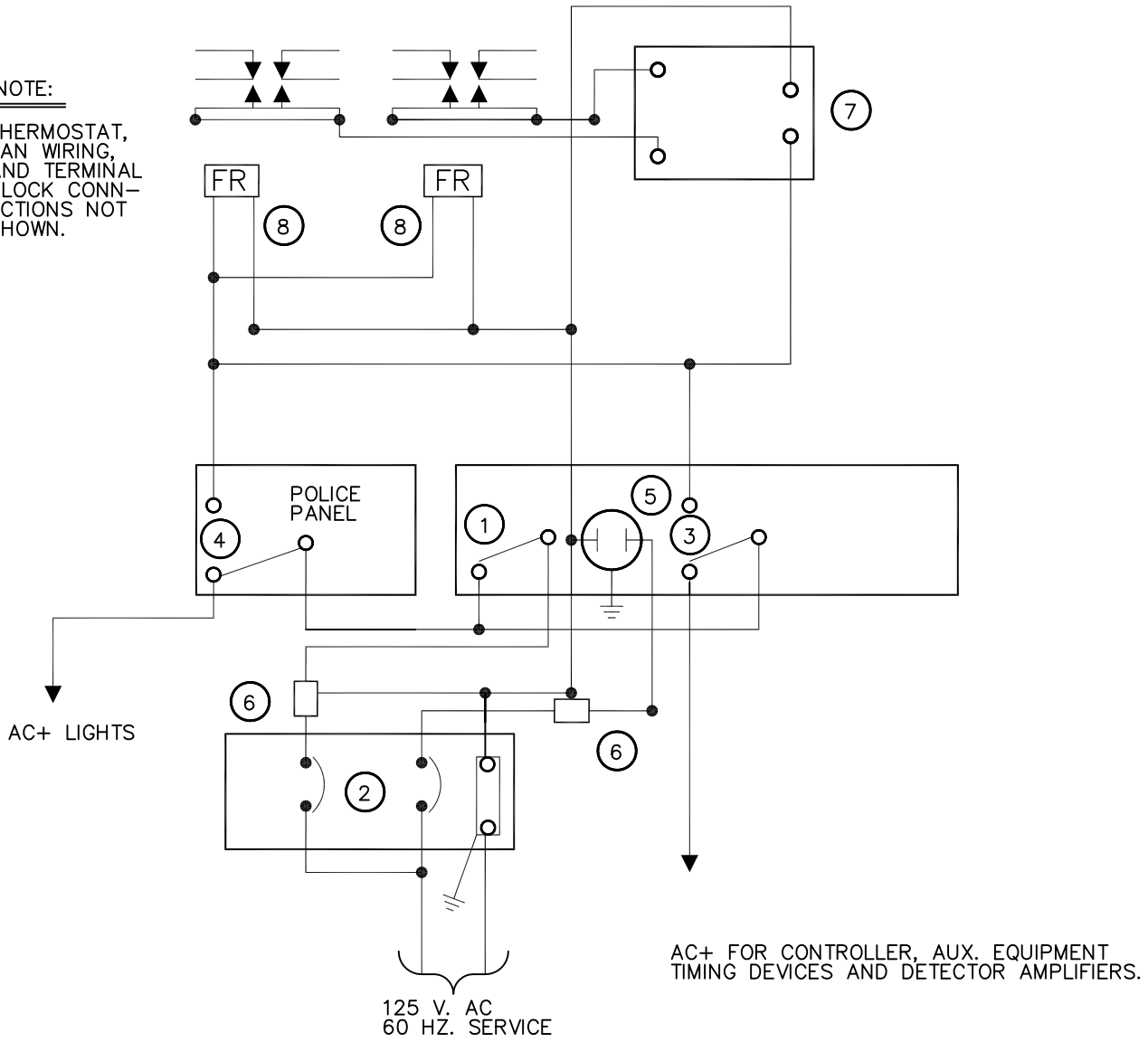
Effective 07/01/08 - 12/30/08

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
506	STEEL STRUCTURES	SINGLE METER SERVICE PEDESTAL		
623	TRAFFIC SIGNALS & STREETLIGHTING			
		DATE 12-12-96	DWG. NO. 404.1412	SHEET 1 OF 1



**NOTE:**

THERMOSTAT,  
FAN WIRING,  
AND TERMINAL  
BLOCK CONN-  
NECTIONS NOT  
SHOWN.



1. MAIN SWITCH.
2. 30 AMP CIRCUIT BREAKERS.
3. SIGNAL FLASH SWITCH INSIDE CABINET.
4. AUXILARY 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.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

AUXILIARY CABINET  
EQUIPMENT WIRING

OPEN TRENCH

LIP OF GUTTER

PULL BOX (SIZE SPECIFIED ON PLANS)

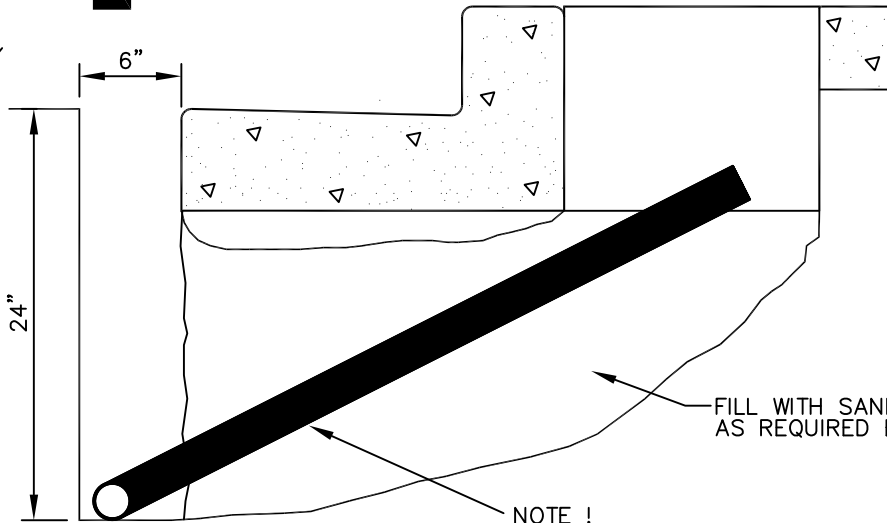
END OF CONDUIT SHALL BE FITTED WITH BUSHINGS

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

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

CONNECTOR

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



FILL WITH SAND AND COMPACT AS REQUIRED BY FIELD ENGINEER

NOTE ! DO NOT MAKE COMPOUND BENDS IN CONDUIT

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

INSTALLATION OF CONDUIT  
INTO PULL BOX FROM LIP  
OF GUTTER TRENCH

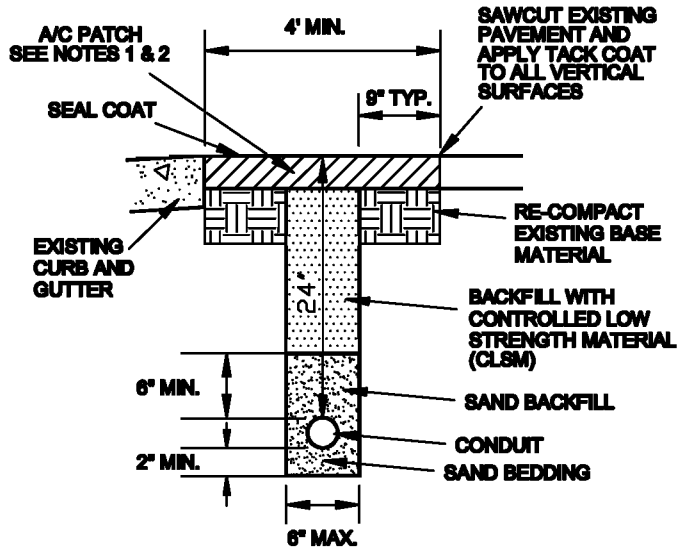
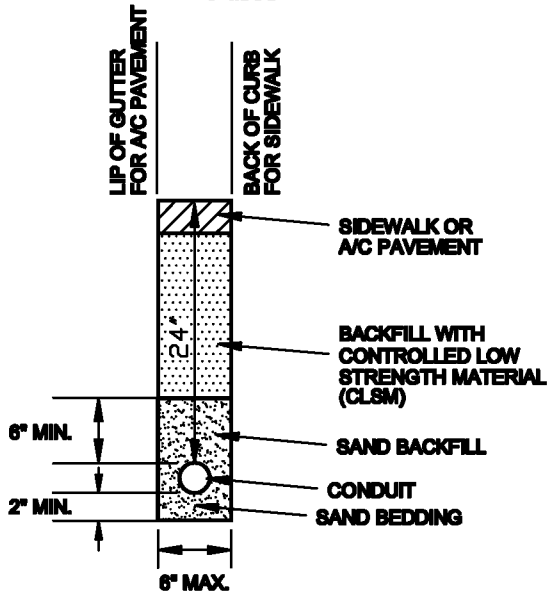
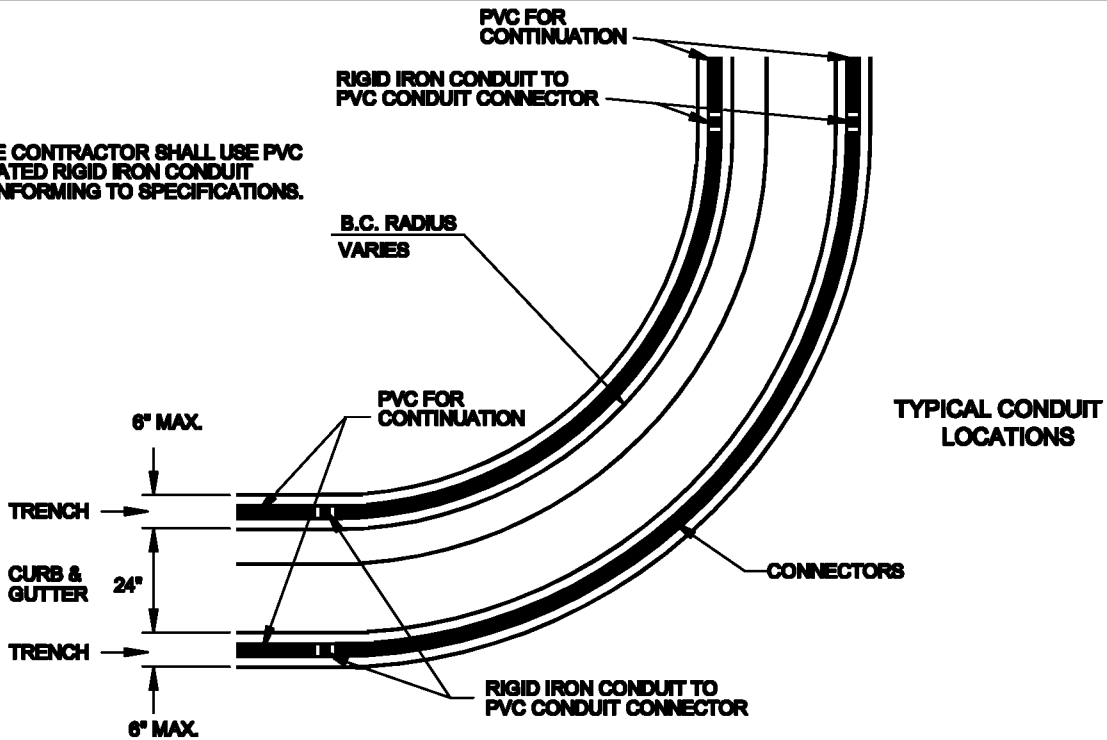
DATE

DWG. NO. 404.1418

SHEET 1 OF 1

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

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



**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 USING AGENCY APPROVED SPREADER BOX OR PAVING MACHINE, ROLLING AND COMPACTION PER UNIFORM STANDARD SPECIFICATION SECTION 401.03.11.
3. IF SAWCUT IS WITHIN 3 FEET OF EDGE OF EXISTING ASPHALT CONCRETE SURFACE OR OTHER PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
4. IF 24" COVER IS NOT POSSIBLE, THEN RED CONCRETE ENCASEMENT MIN. 4' ABOVE CONDUIT REQUIRED.
5. CONTROLLED LOW STRENGTH MATERIAL (CLSM) MAY BE INSTALLED TO FINAL GRADE FOR TEMPORARY PATCHING.
6. PERMANENT PATCH MIX DESIGN SHALL BE AS REQUIRED BY ENGINEER.

**SPECIFICATION REFERENCE**

**UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA**

**INSTALLATION OF  
CONDUIT**

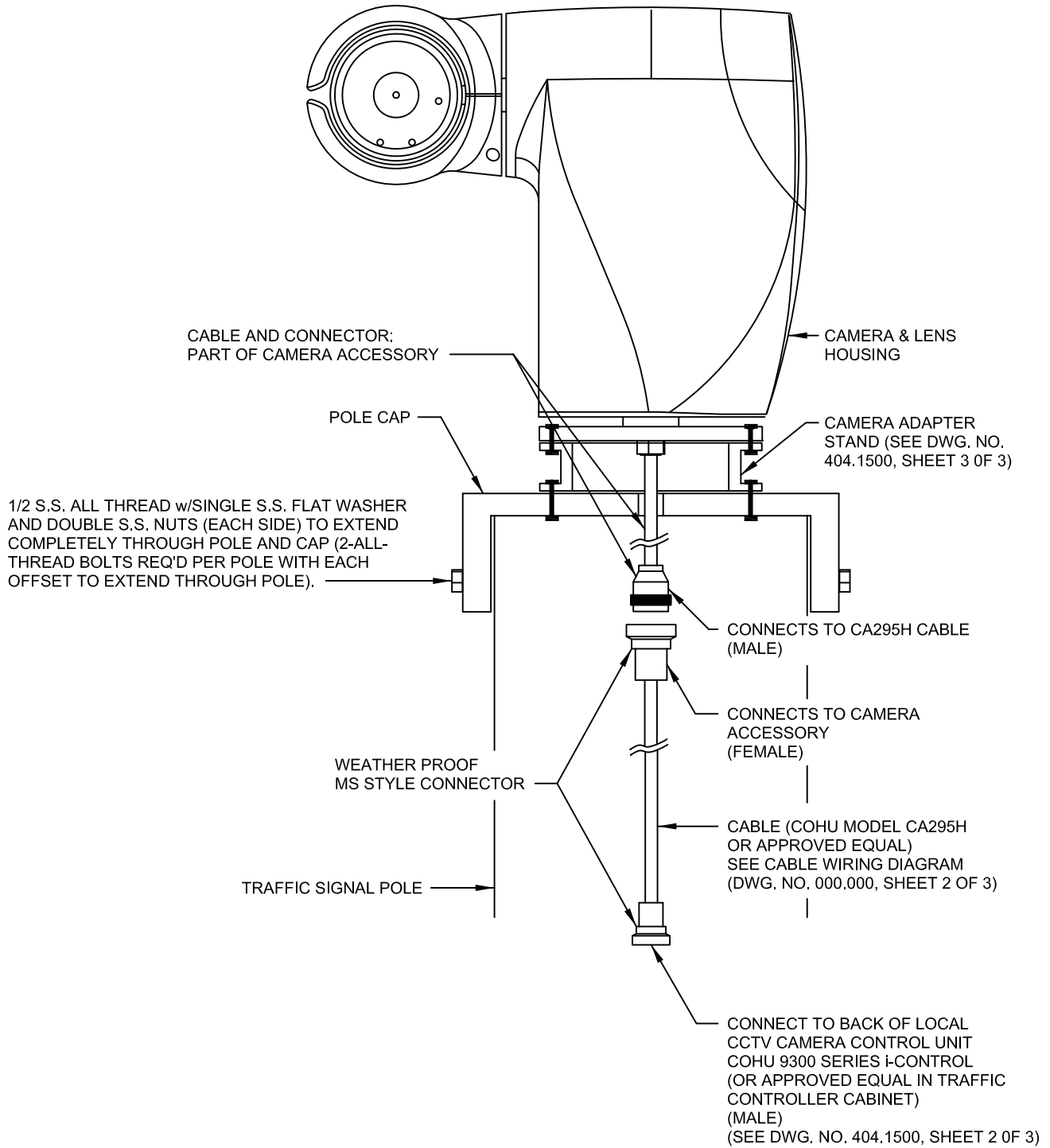
DATE 5-17-01

DWG. NO. 404.1419

SHEET 1 OF 1

# CCTV CAMERA

COHU 3965 - 4101  
(OR APPROVED EQUAL)



FOR CCTV AND CONTROL UNIT DETAILS  
SEE 687 SPECIFICATIONS.

SPECIFICATION REFERENCE

UNIFORM STANDARD DRAWINGS  
CLARK COUNTY AREA

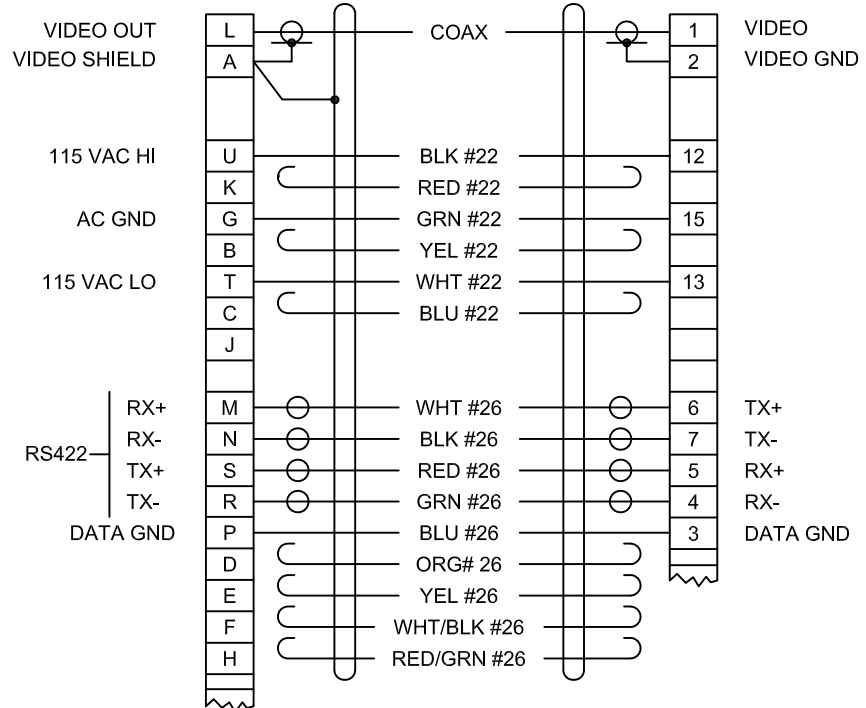
CLOSED CIRCUIT TELEVISION  
CAMERA

DATE 11-8-07

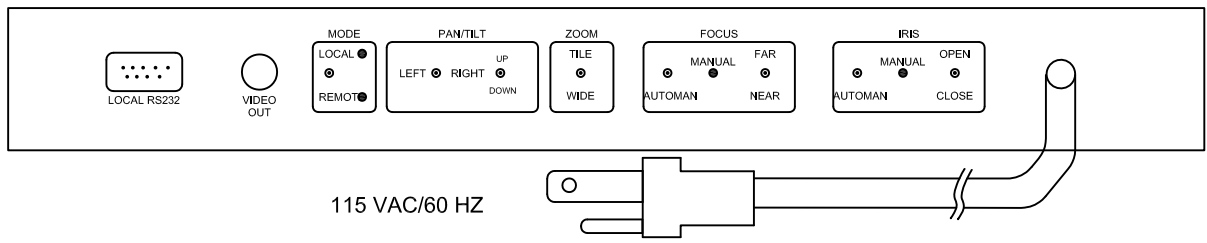
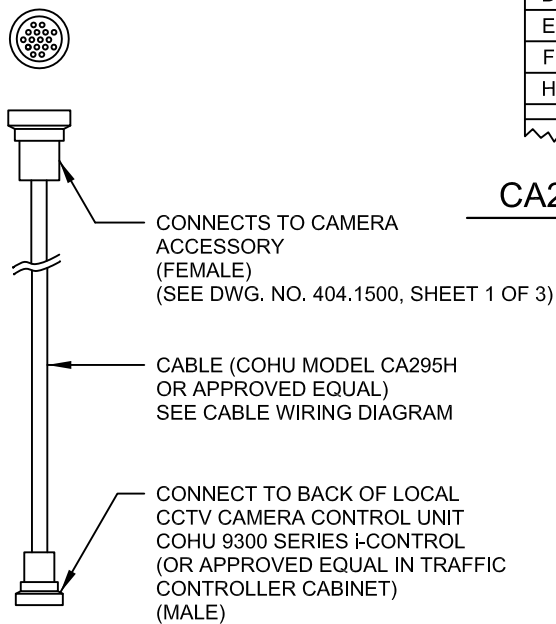
DWG. NO. 404.1500

SHEET 1 OF 3

CONNECTOR (MAIN) AC38 7610176-001 CONNECTOR (AMP)



**CCTV CAMERA  
CA295H CABLE WIRING DIAGRAM**



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

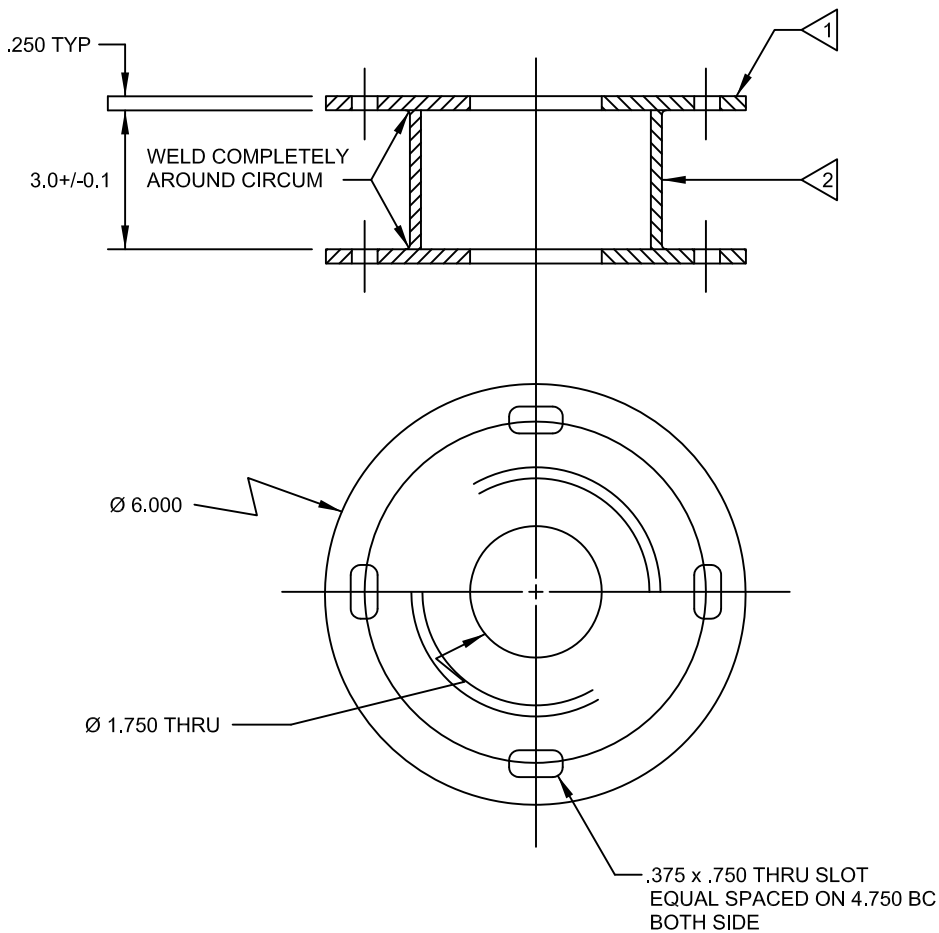
SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
		CLOSED CIRCUIT TELEVISION CAMERA CONTROL UNIT AND CABLE WIRING DIAGRAM		
		DATE 11-8-07	DWG. NO. 404.1500	SHEET 2 OF 3

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

# CAMERA ADAPTER STAND

(REQUIRED FOR POLE CAP MOUNTING)

- 1. MAT'L (FLANGE): 1018 STEEL OR EQUIV.
- 2. MAT'L (TUBE):  $\varnothing$  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 3310042-478 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.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
	CAMERA ADAPTOR STAND		
	DATE 11-8-07	DWG. NO. 404.1500	SHEET 3 OF 3