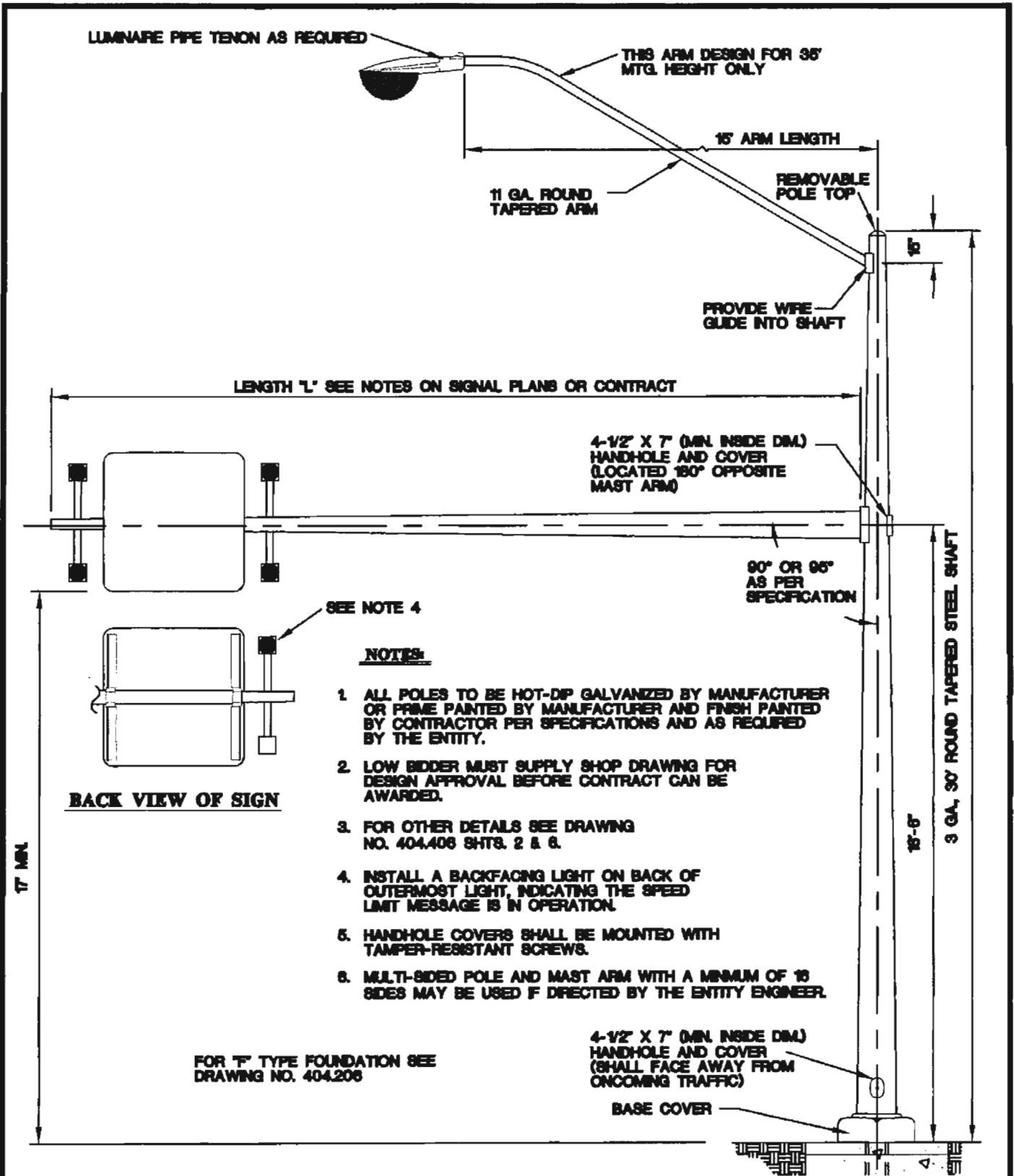


**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

VOLUME II - YEAR 2007 REVISIONS

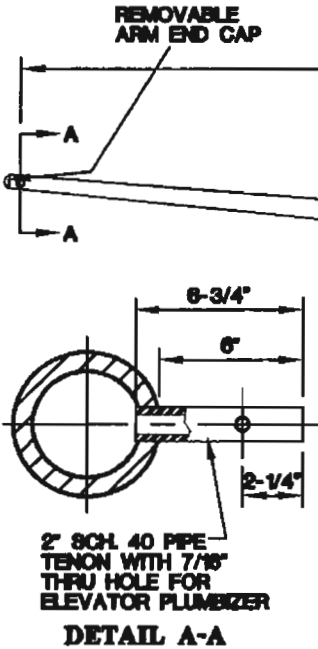
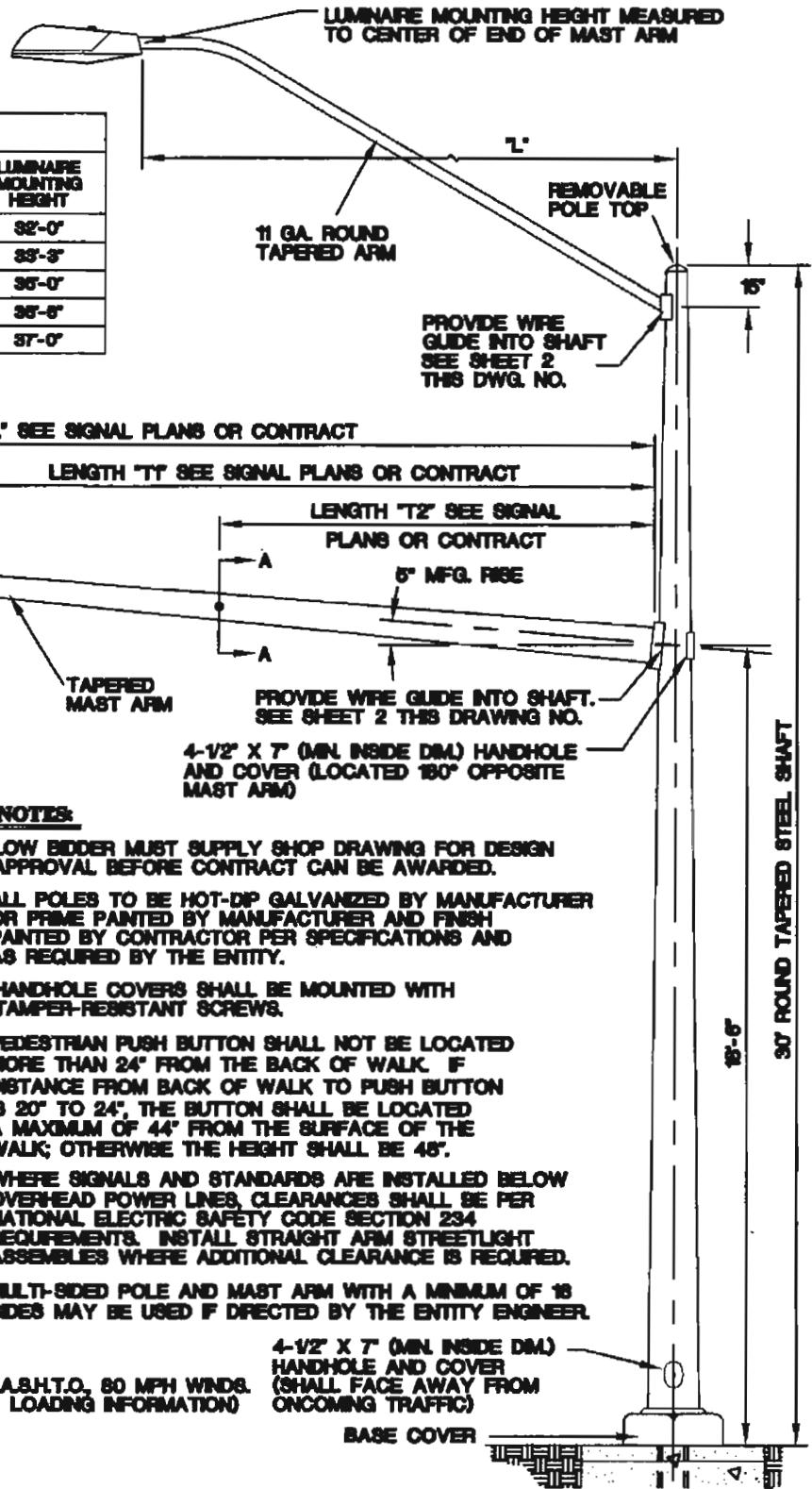
Drawing Number	Title	Nature of Change	Effective Date
404.400	"School Flashing Sign On Pole With Luminaire"	Revision to allow the use of multi-sided traffic signal poles.	01/01/07
404.406	"Type XX-30'-0" Signal & Luminaire Pole (Sheets 1-4 of 6)"	Revision to allow the use of multi-sided traffic signal poles.	01/01/07
404.406C	"Red Light Running Indicator Installation Details" - Addition of drawing to improve traffic safety and law enforcement.	Addition to improve traffic safety and law enforcement.	01/01/07
404.407	"Type XX-A-20' - 0" Signal Pole"	Revision to allow the use of multi-sided traffic signal poles.	01/01/07
404.410	"30' Pole With School Flashing Sign"	Revision to allow the use of multi-sided traffic signal poles.	01/01/07
404.411	"School Sign Mounted On Traffic Signal Standard"	Deleted	07/01/07
404.412	"School Sign Pole Type XX - A' "	Revision to allow the use of multi-sided traffic signal poles.	01/01/07
404.412	"School Sign Pole Type XX - A' "	Revised to modify the mast arm with a five (5) degree rise and allow the use of multi-sided poles for traffic signal installations.	07/01/07
404.413	"School Sign Pole Type XX-20' "	Deleted	07/01/07
404.416A	"Utility Cable Clearance Over Traffic Signals New Installation Only"	Addition to depict a clearance zone for traffic signals from overhead utility lines.	07/01/07



SPECIFICATION REFERENCE	

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
SCHOOL FLASHING SIGN ON POLE WITH LUMINAIRE		
DATE 9-14-08	DWG. NO. 404.400	SHEET 1 OF 2

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
8	3.42	2.36	11	32'-0"
8	3.75	2.36	11	33'-3"
10	4.18	2.36	11	35'-0"
12	4.62	2.36	11	36'-6"
15	4.95	2.36	11	37'-0"



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. 404.408 SHEET 5 FOR LOADING INFORMATION)

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

FOR T' TYPE FOUNDATION SEE DRAWING NO. 404.208

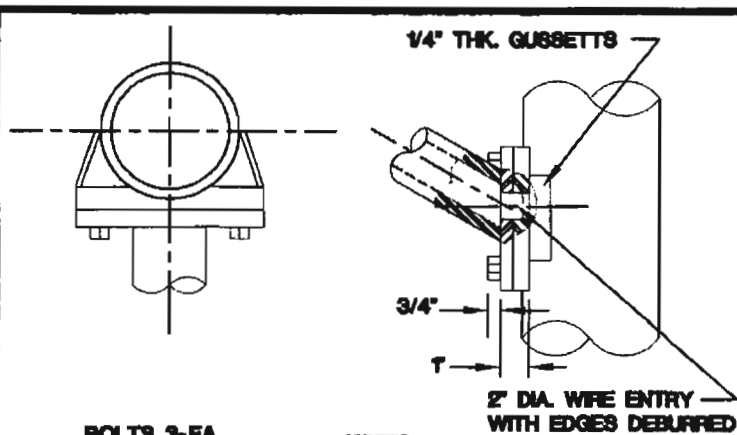
BASE COVER

SPECIFICATION REFERENCE	

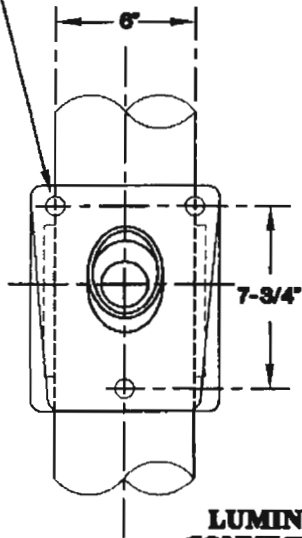
**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

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

DATE 9-14-08 | DWG. NO. 404.408 | SHEET 1 OF 6



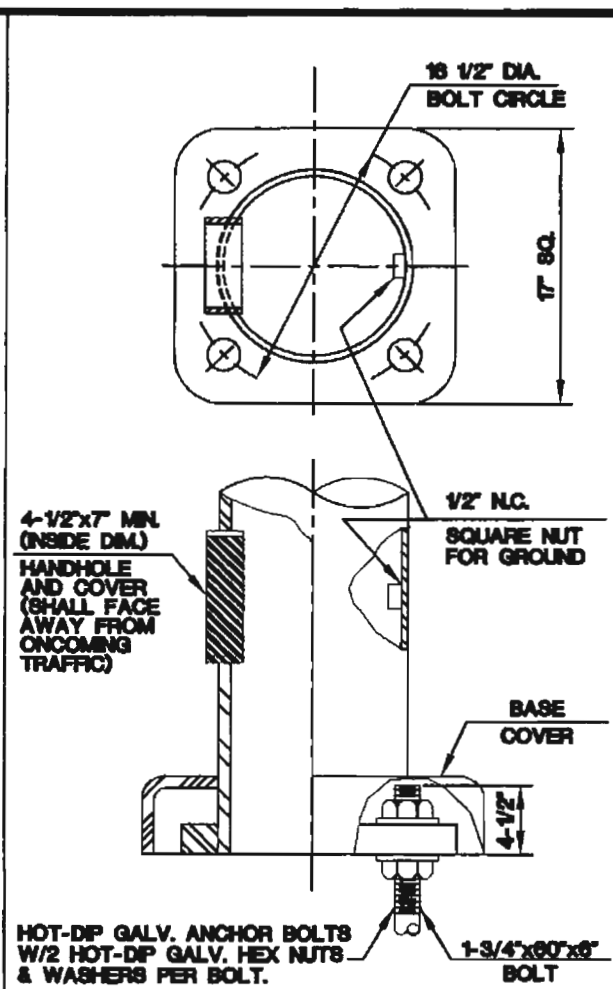
BOLTS 3-EA.
3/4" x 1-3/4"
A325-X



LUMINAIRE ARM CONNECTION DETAIL

NOTES

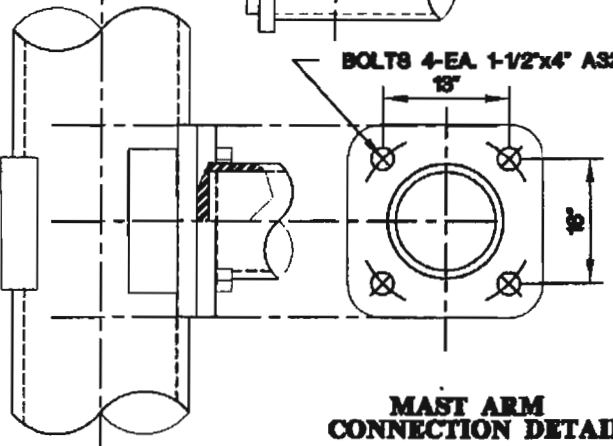
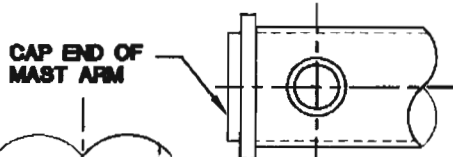
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PEDESTRIAN 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 254 REQUIREMENTS. INSTALL STRAIGHT ARM STREETLIGHT ASSEMBLIES WHERE ADDITIONAL CLEARANCE IS REQUIRED.
6. MULTI-SIDED POLE AND MAST ARM WITH A MINIMUM OF 10 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.



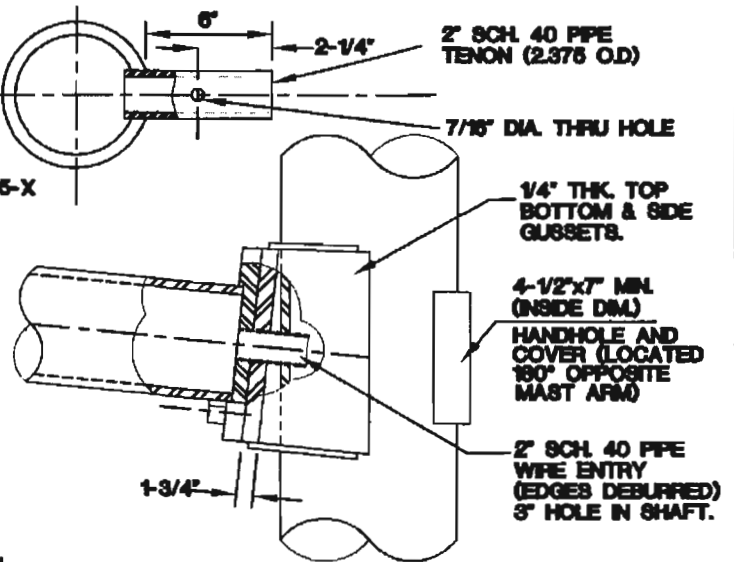
HOT-DIP GALV. ANCHOR BOLTS
W/2 HOT-DIP GALV. HEX NUTS
& WASHERS PER BOLT.

1-3/4"x80"x8"
BOLT

POLE MOUNTING DETAIL



MAST ARM CONNECTION DETAIL

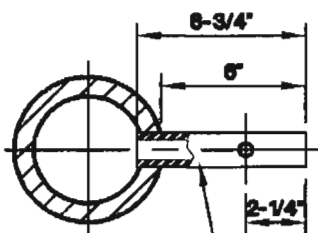
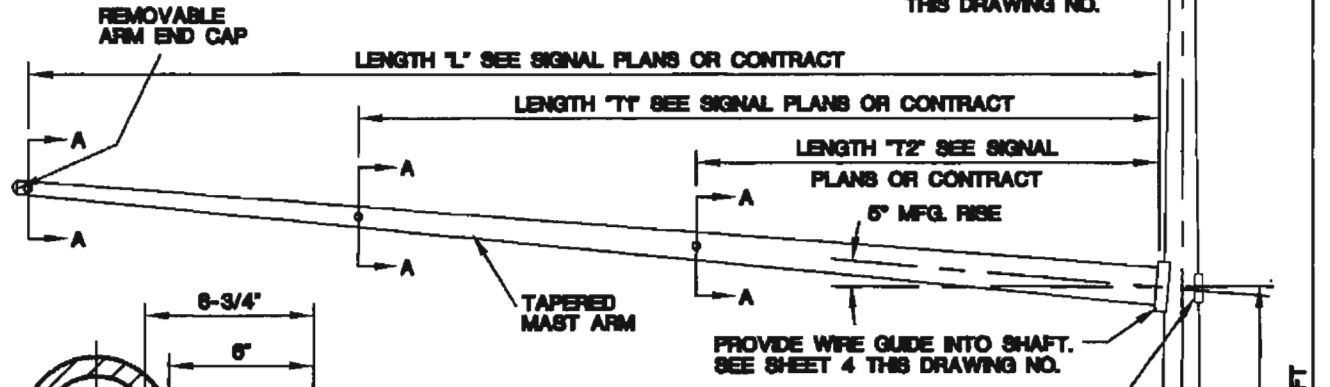
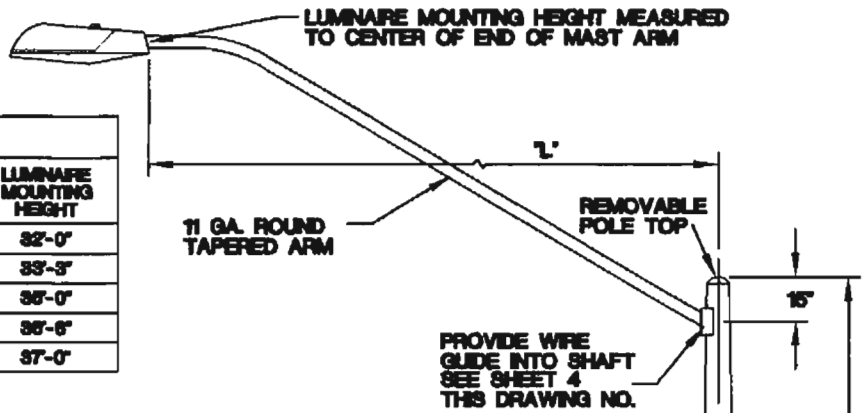


SPECIFICATION REFERENCE

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

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

LUMINAIRE ARM DATA				
ARM SPAN "L" (FT)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE	LUMINAIRE MOUNTING HEIGHT
6	3.42	2.36	11	32'-0"
8	3.76	2.36	11	33'-3"
10	4.10	2.36	11	35'-0"
12	4.52	2.36	11	36'-6"
15	4.96	2.36	11	37'-0"



2' SCH. 40 PIPE TENON WITH 7/16" THRU HOLE FOR ELEVATOR PLUMBER
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 18 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O., 60 MPH WINDS.
(SEE DRAWING NO. 404.408 SHEET 6 FOR LOADING INFORMATION)
FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.209

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

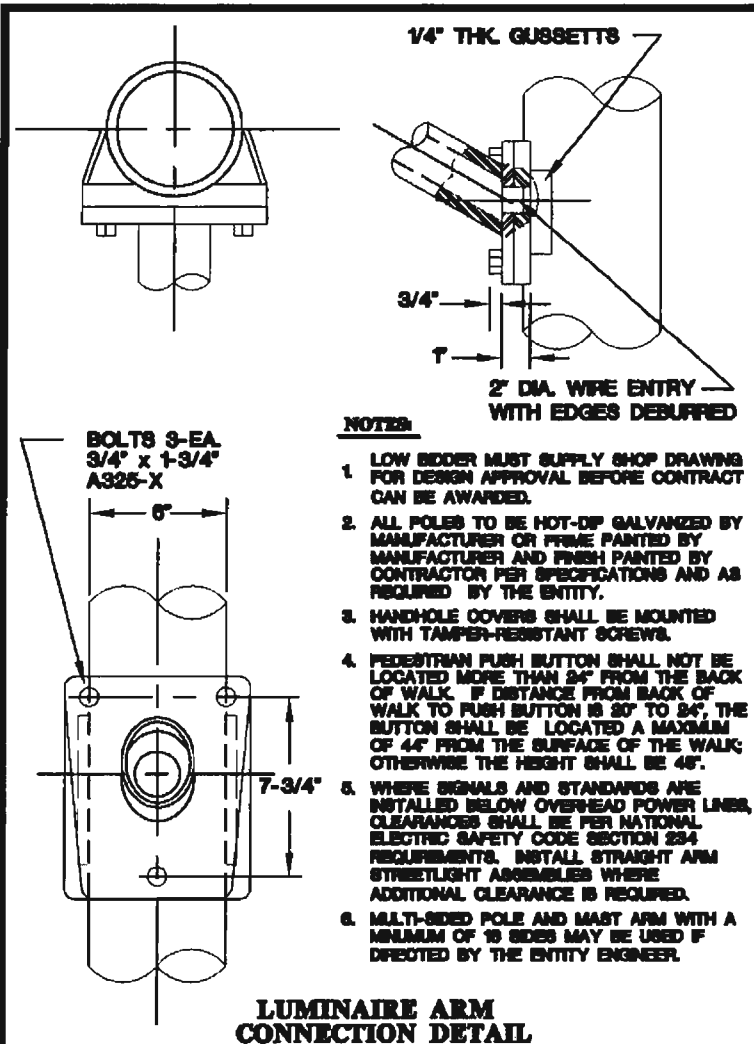
BASE COVER

SPECIFICATION REFERENCE	

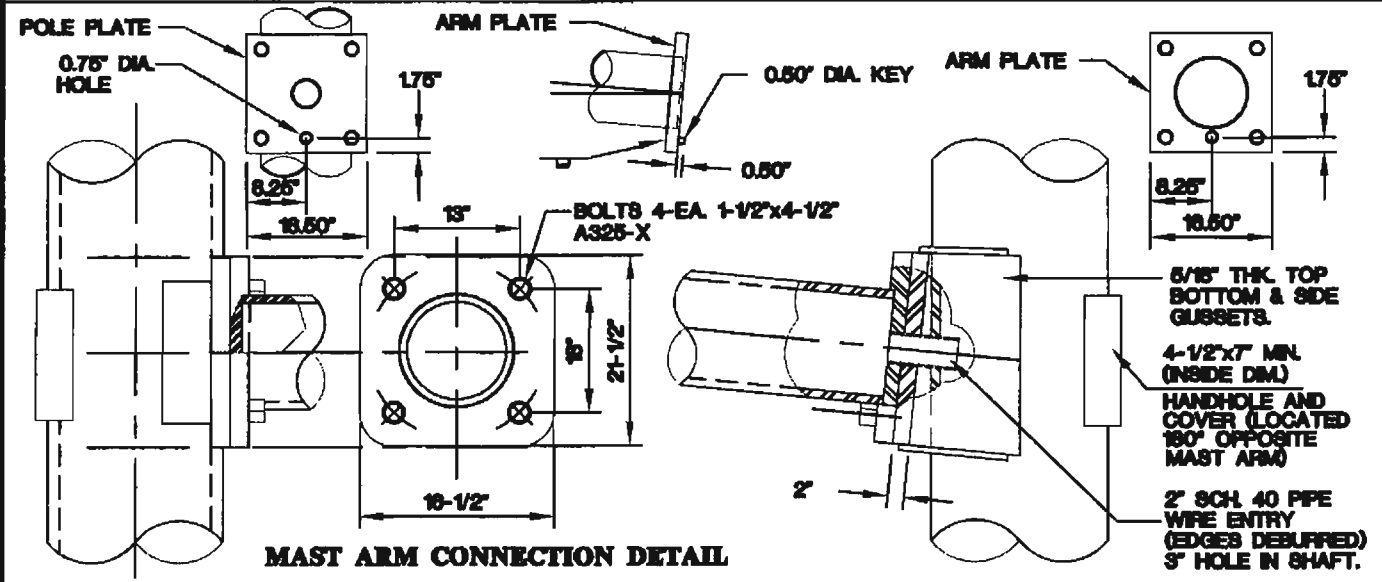
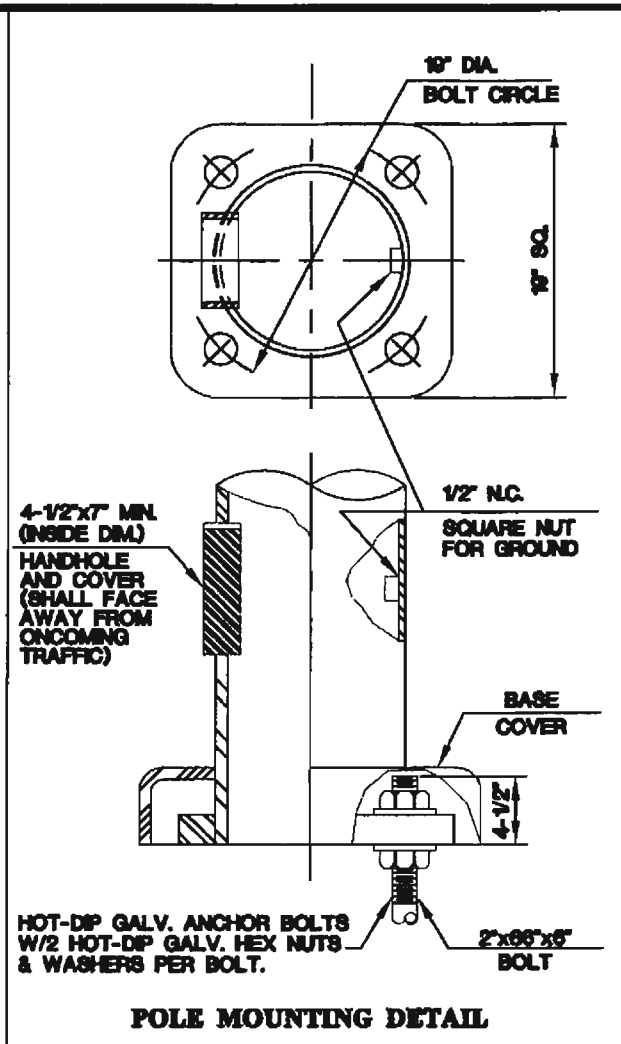
**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

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

DATE 9-14-06 DWG. NO. 404.408 SHEET 3 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 18 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

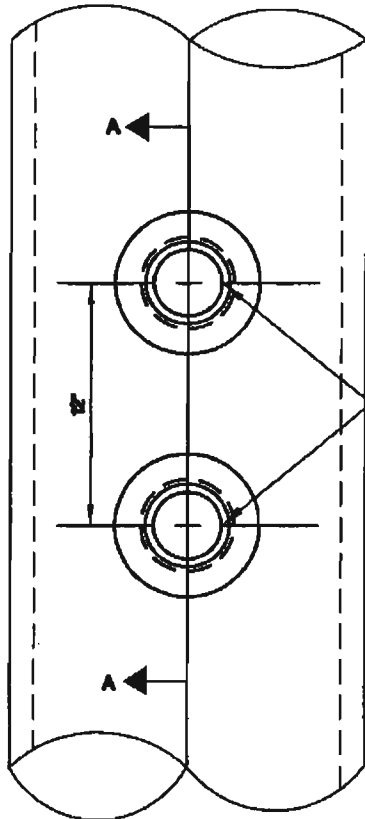


SPECIFICATION REFERENCE	

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

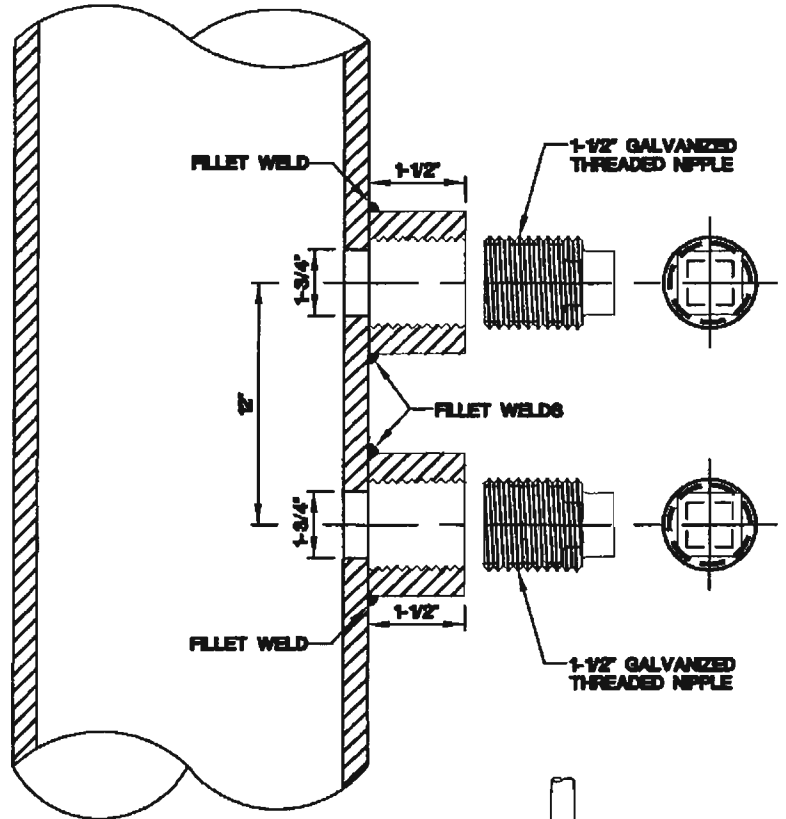
TYPE XX - A - 30'-0"
(50' THRU 60' MAST ARMS)
SIGNAL & LUMINAIRE POLE DETAILS

DATE 9-14-08 DWG. NO. 404.408 SHEET 4 OF 6



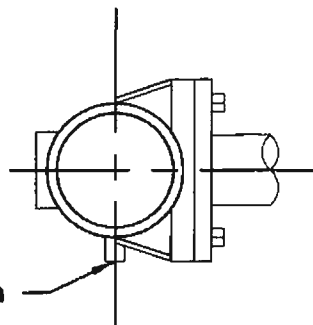
DRILLING DETAIL

DRILL
1-3/4"
DIA. HOLE



**NIPPLE DETAIL
SECTION A-A**

**PLACEMENT DETAIL
(TOP VIEW)**

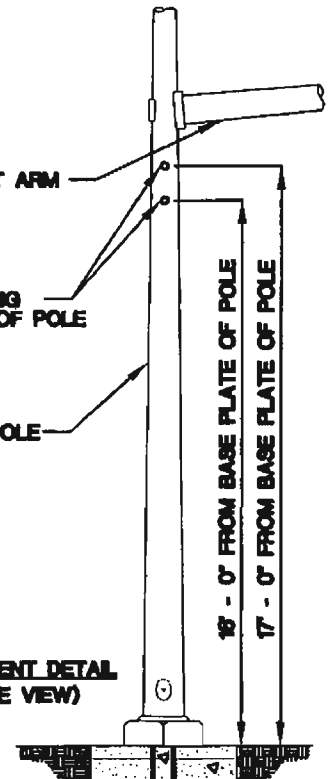


RED LIGHT RUNNING
INDICATOR

INSTALL RED LIGHT RUNNING
INDICATORS 90 DEGREES OF POLE
MAST ARM

TRAFFIC SIGNAL POLE

**PLACEMENT DETAIL
(SIDE VIEW)**



NOTES:

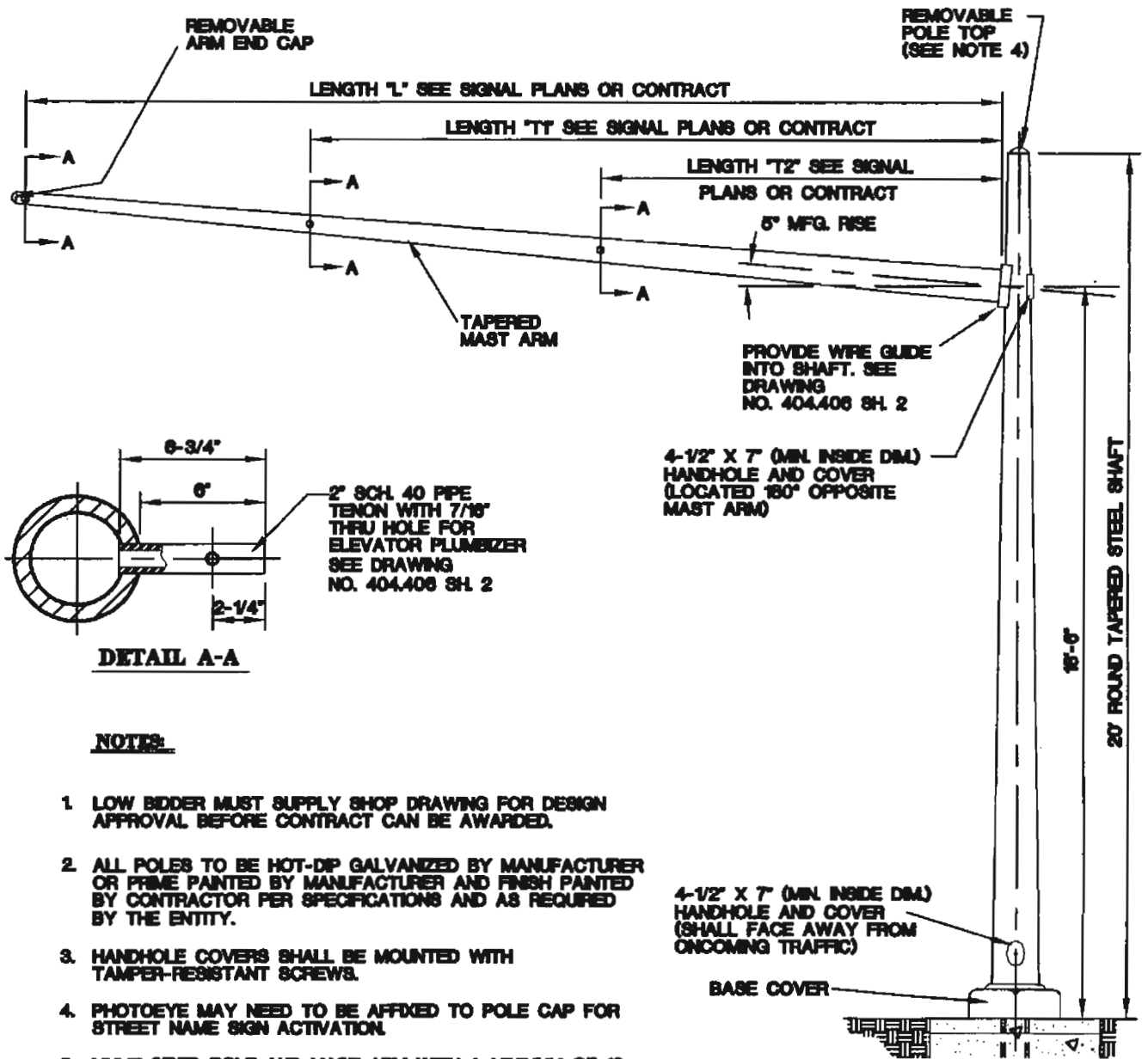
1. CONTRACTOR TO INSTALL RED LIGHT RUNNING INDICATORS, MOCAN MODELS M61385 (RED) & M61448 (BLUE), OR APPROVED EQUAL AS INDICATED BY THE TRAFFIC ENGINEER.
2. RED (THRU) INDICATOR SHALL BE MOUNTED 18" ABOVE POLE BASE PLATE AND BLUE (LEFT) INDICATOR SHALL BE MOUNTED 17" ABOVE POLE BASE PLATE AND SHALL FACE AWAY FROM ONCOMING TRAFFIC.
3. RED LIGHT RUNNING INDICATOR LED 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**

DATE 8-14-06	DWG. NO. 408.406C	SHEET 1 OF 1
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NOTES:

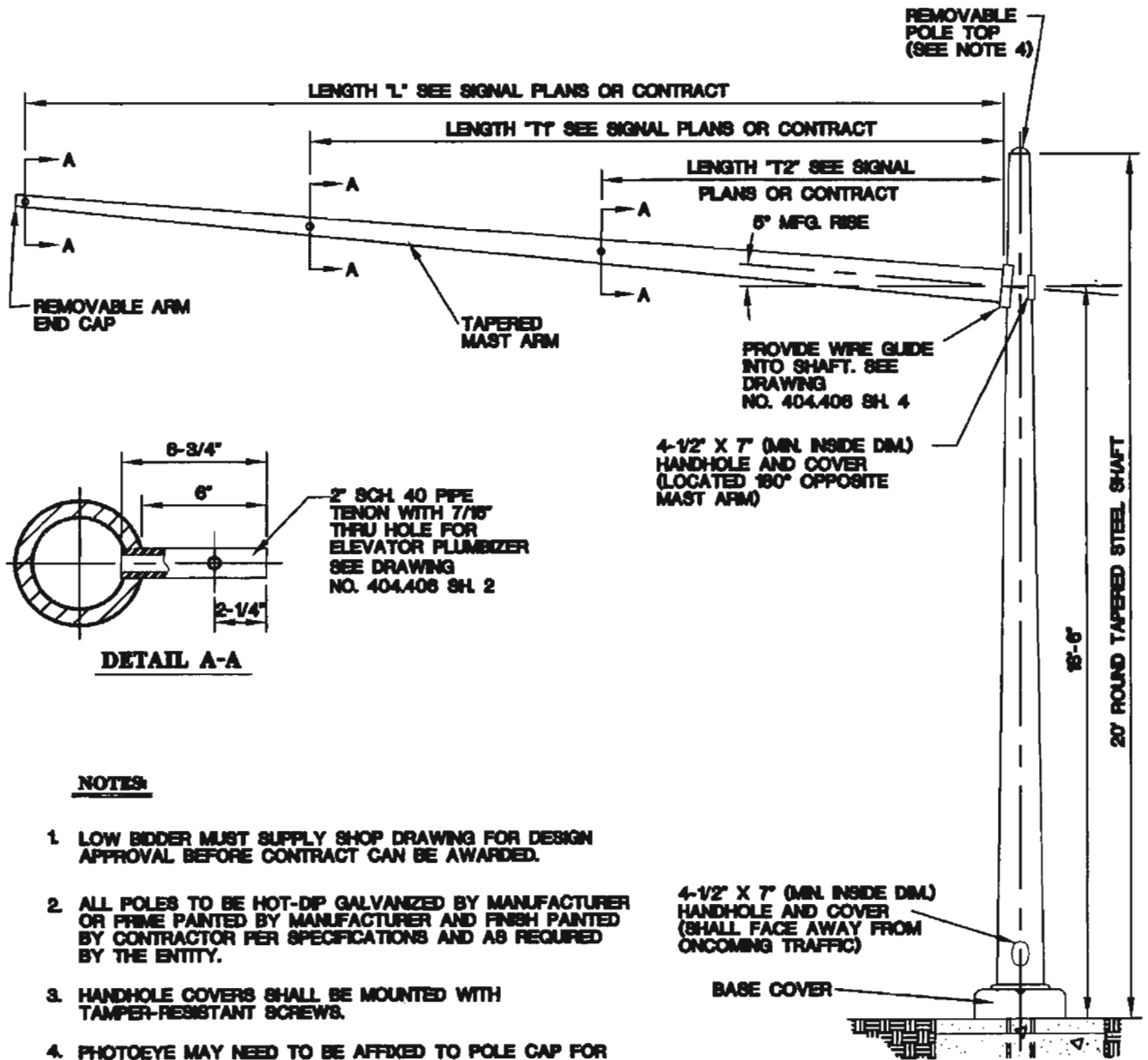
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. 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 18 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

POLES DESIGNED PER SPECIFICATION OF A.A.S.H.T.O. 80 MPH WINDS.
(SEE DRAWING NO. 404.408 SHEET 6 FOR LOADING INFORMATION)

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

FOR T1 TYPE FOUNDATION SEE DRAWING NO. 404.206.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
	TYPE XX 20'-0" SIGNAL POLE (45' OR LESS MAST ARMS)		
	DATE 9-14-08	DWG. NO. 404.407	SHEET 1 OF 2



NOTES:

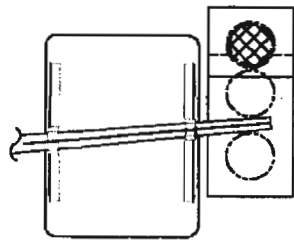
1. LOW BIDDER MUST SUPPLY SHOP DRAWING FOR DESIGN APPROVAL BEFORE CONTRACT CAN BE AWARDED.
2. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
3. HANDHOLE COVERS SHALL BE MOUNTED WITH TAMPER-RESISTANT SCREWS.
4. PHOTOEYE MAY NEED TO BE AFFIXED TO POLE CAP FOR STREET NAME SIGN ACTIVATION.
5. MULTI-SIDED POLE MAST ARM WITH A MINIMUM OF 18 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

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

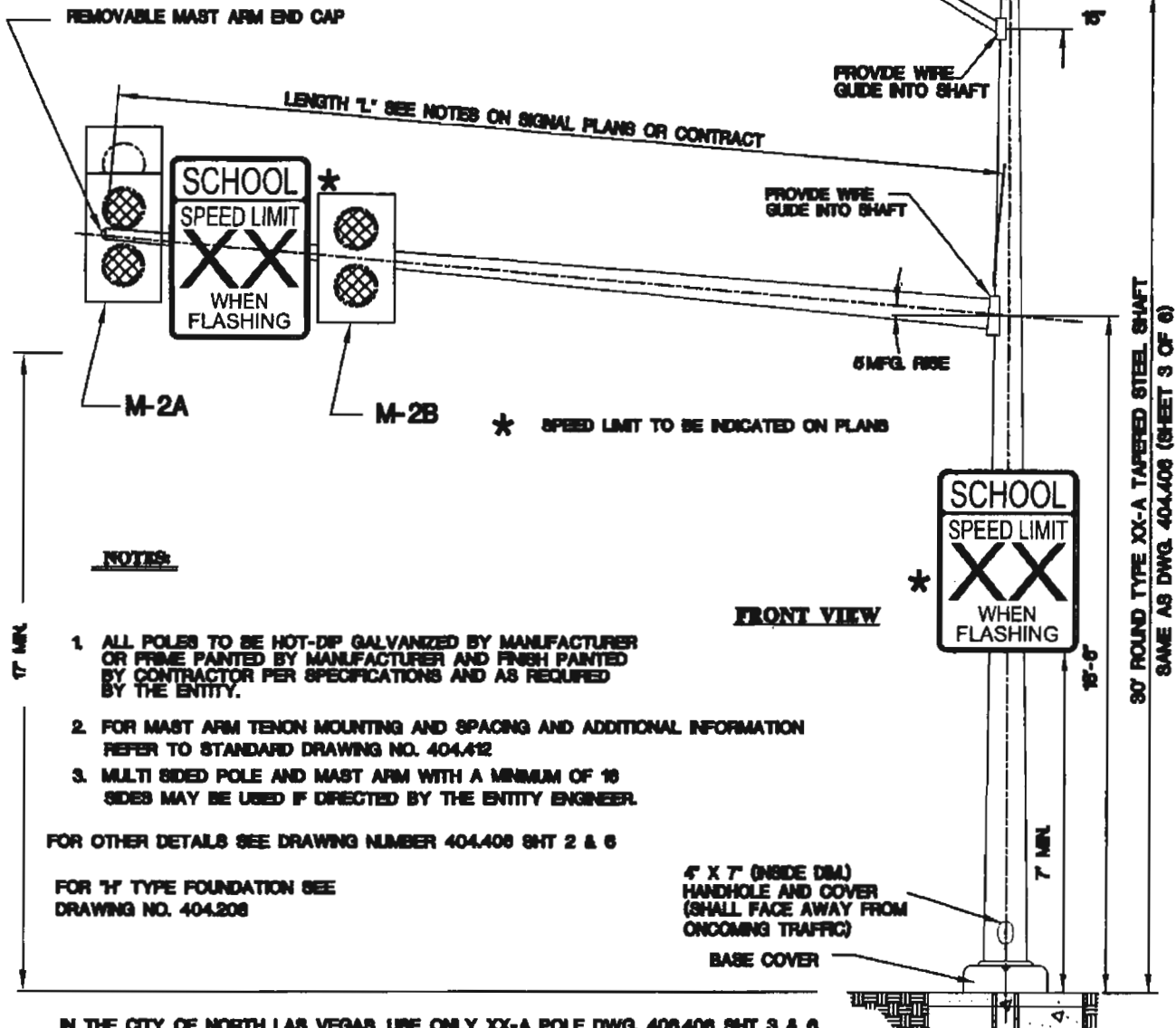
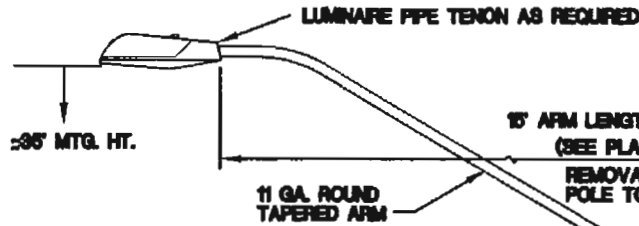
FOR OTHER DETAILS SEE DRAWING NO. 404.406 SHTS. 4 & 6.

FOR "L" TYPE FOUNDATION SEE DRAWING NO. 404.208.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
	TYPE XX-A-20'-0" (50' THRU 60' MAST ARMS) SIGNAL POLE	
	DATE 8-14-08	DWG. NO. 404.407
	SHEET 2 OF 2	



BACK VIEW OF SIGN



NOTES:

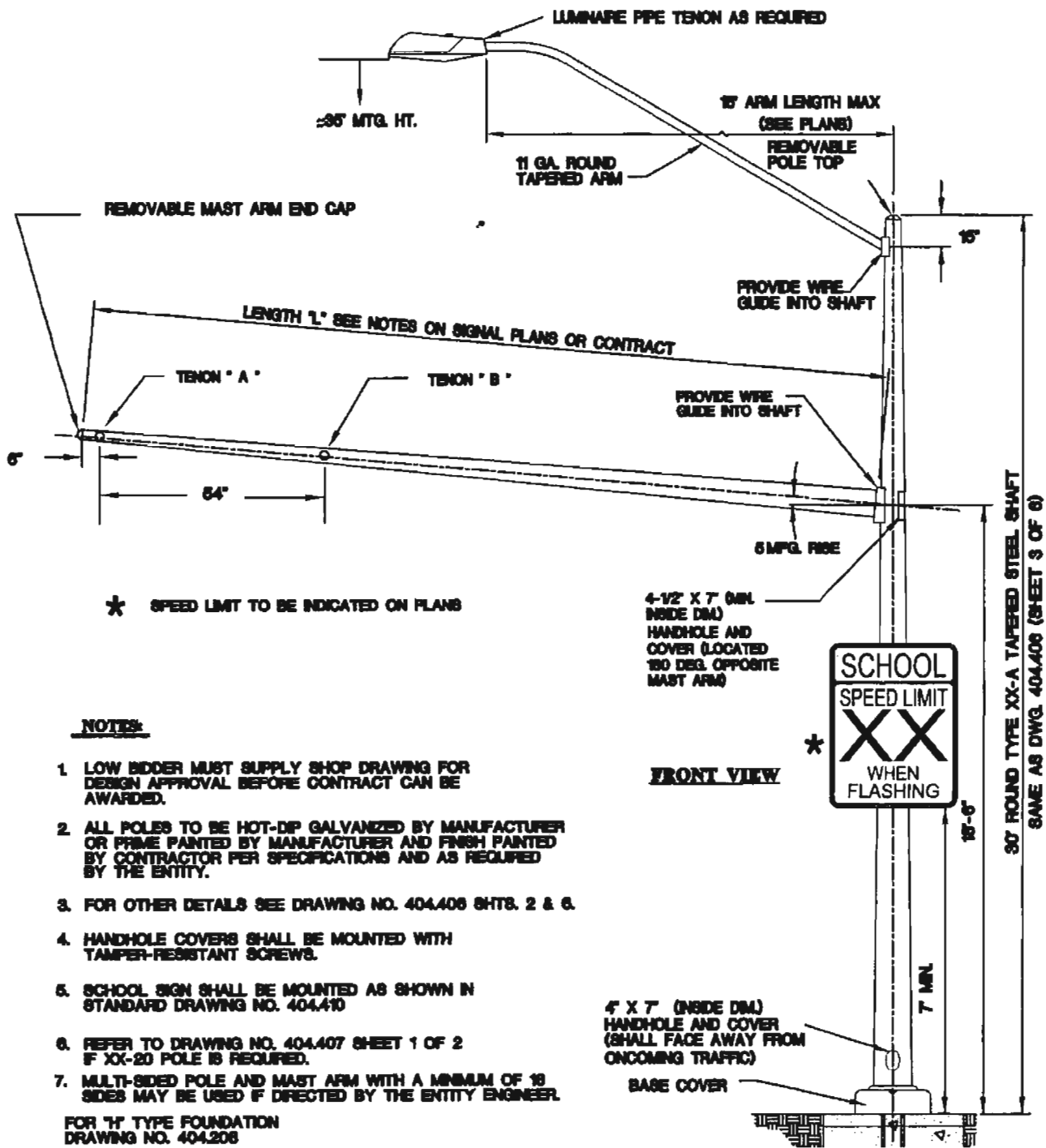
1. ALL POLES TO BE HOT-DIP GALVANIZED BY MANUFACTURER OR PRIME PAINTED BY MANUFACTURER AND FINISH PAINTED BY CONTRACTOR PER SPECIFICATIONS AND AS REQUIRED BY THE ENTITY.
2. FOR MAST ARM TENON MOUNTING AND SPACING AND ADDITIONAL INFORMATION REFER TO STANDARD DRAWING NO. 404.412
3. MULTI SIDED POLE AND MAST ARM WITH A MINIMUM OF 18 SIDES MAY BE USED IF DIRECTED BY THE ENTITY ENGINEER.

FOR OTHER DETAILS SEE DRAWING NUMBER 404.408 SHT 2 & 6

FOR 'H' TYPE FOUNDATION SEE DRAWING NO. 404.208

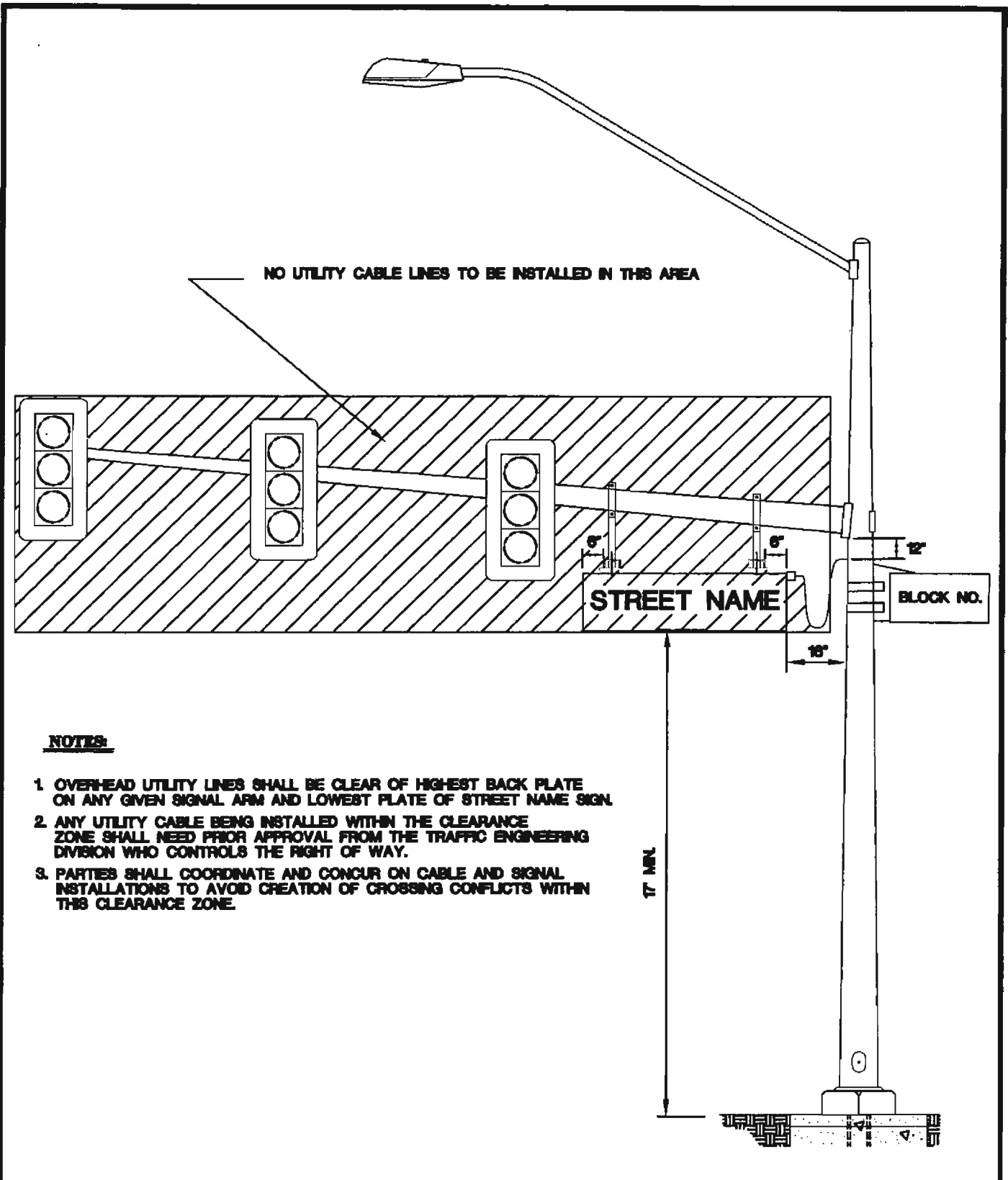
IN THE CITY OF NORTH LAS VEGAS, USE ONLY XX-A POLE DWG. 408.408 SHT 3 & 6 FOR 'L' FOUNDATION SEE DWG. 404.208

SPECIFICATION REFERENCE	CLARK COUNTY AREA	
	30' POLE WITH SCHOOL FLASHING SIGN	
	DATE 9-14-06	DWG. NO. 404.410
	SHEET 1 OF 1	



SPECIFICATION REFERENCE	

CLARK COUNTY AREA	
SCHOOL SIGN POLE TYPE XX-A	
DATE 04-12-07	DWG. NO. 404.412



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.

SPECIFICATION REFERENCE	UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
	UTILITY CABLE CLEARANCE OVER TRAFFIC SIGNALS NEW INSTALLATION ONLY	
	DATE 2-08-07	DWG. NO. 404.418A