

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

VOLUME I - YEAR 2000 REVISIONS

<u>DRAWING NUMBER AND TITLE</u>	<u>PAGE NUMBER(S)</u>	<u>NATURE OF CHANGE</u>	<u>EFFECTIVE DATE</u>
207 Local Residential Urban Area Street Sections	13	Revised to require sidewalk on both sides for 48 ft. street section in North Las Vegas.	3/1/00
332 Service Pedestal Foundation (Except Clark County and City of Las Vegas)	92	Revised to except City of Las Vegas from the standard.	"
332.1 Service Pedestal Foundation (Clark County and City of Las Vegas)	92.1	Revised to include City of Las Vegas and revise wire requirements for City of Las Vegas 200 amp service.	"
335 Streetlight Circuit One Line Diagram (Except Clark County and City of Las Vegas)	95	Revised to except City of Las Vegas from the standard.	"
335.1 Streetlight Circuit One Line Diagram (Clark County and City of Las Vegas)	95.1	Revised to include City of Las Vegas.	"
336 System Grounding Plan with Pedestal	96	Revised Note 1 to reference appropriate standard for conduit size and wiring.	"
324 Bypass Switch Bracket for Pole- mounted Streetlighting Service	84	Revised to permit pole-mounted streetlight service in Mesquite only.	5/1/00
333 Streetlighting Service Point Located on Streetlight Standard.	93	"	"
212 Cul-de-sac	18	Revised bulb radius in the City of North Las Vegas and Mesquite.	7/1/00
239 Type I Monument	45	Revised standard monument assembly; cap material reference changed to non-ferrous.	11/1/00

<u>DRAWING NUMBER AND TITLE</u>	<u>PAGE NUMBER(S)</u>	<u>NATURE OF CHANGE</u>	<u>EFFECTIVE DATE</u>
242 Type IV Monument	48	Revised reference from "R.L.S." to "P.L.S."	11/1/00
209 Access Roads	15	Revised to address the paving of unpaved roads within the Las Vegas Valley to reduce PM10 emissions.	12/1/00

Revised December 2000

FOREWORD

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

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 Regional Transportation Commission, revisions will be posted to the RTC website, www.rtc.co.clark.nv.us, on the first day of the month following the meeting. **This volume contains all revisions through December 2000.**

To implement this end a Specifications Committee has been established as a permanent organization to continually study and recommend changes to the standard drawings. Interested parties may address suggested changes and questions to the Regional Transportation Commission, 600 South Grand Central Parkway, Suite 350, Las Vegas, Nevada, 89106-4512.

UNIFORM STANDARD DRAWINGS, CLARK COUNTY AREA

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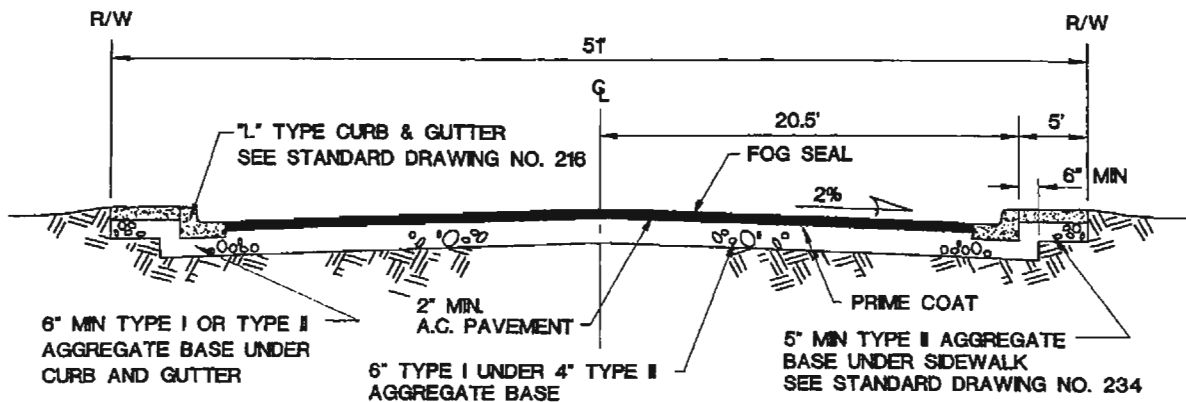
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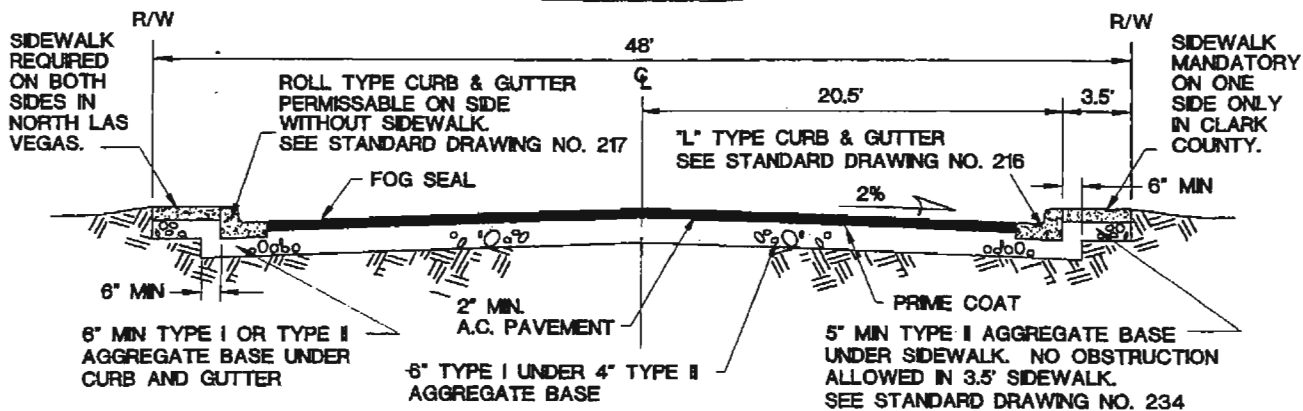
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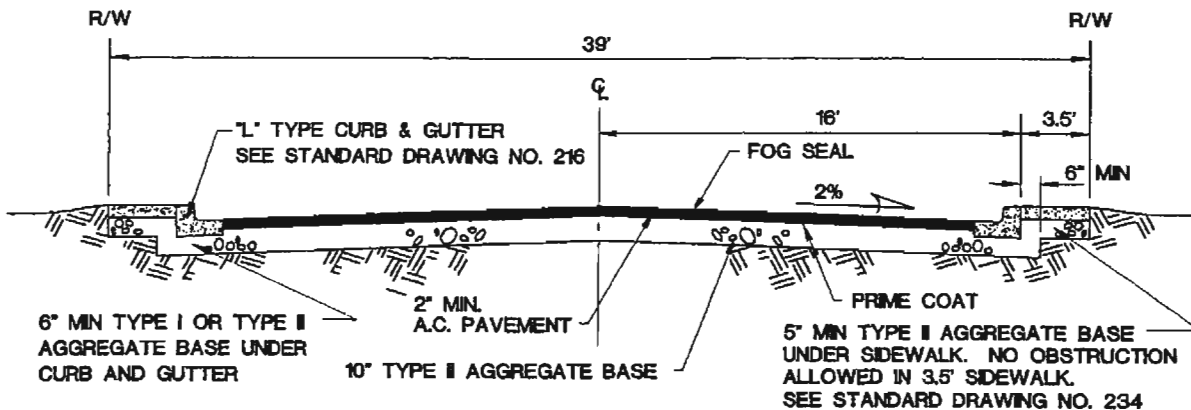
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**RESIDENTIAL TWO-WAY LOCAL OR CUL-DE-SAC
(OPTION "A")**



**RESIDENTIAL TWO-WAY LOCAL, CUL-DE-SAC (OPTION "B")
(NOT ALLOWED IN CLV)**

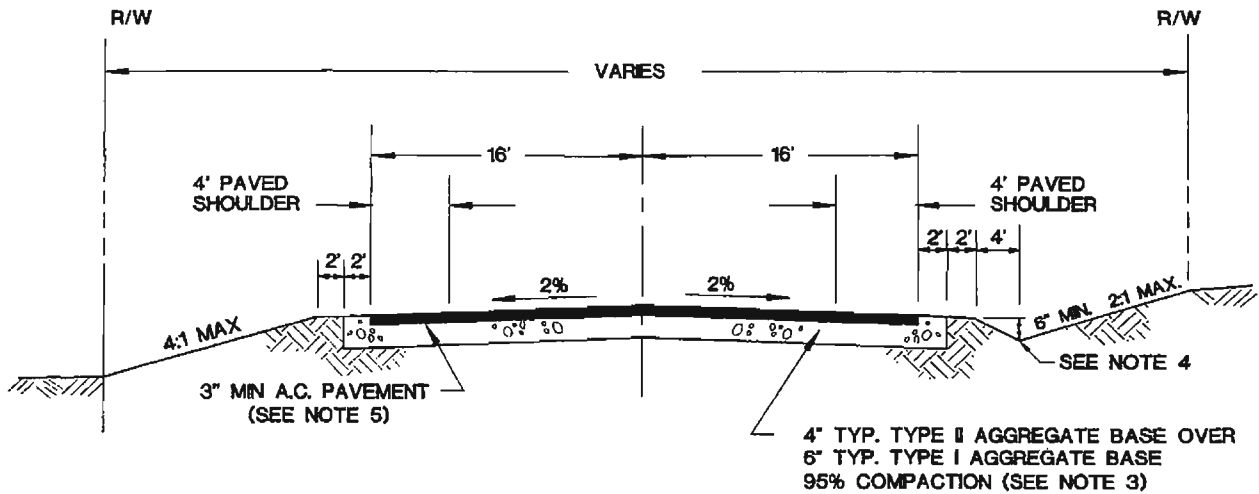


**RESIDENTIAL ONE-WAY
(NOT ALLOWED IN CLV)**

NOTES:

1. FINAL A.C. PAVEMENT SURFACE SHALL BE 1/2" MAXIMUM ABOVE LIP OF GUTTER.
2. STRUCTURAL SECTION SHOWN IS BASED ON A SUBGRADE "R" VALUE OF 20. OTHER STRUCTURAL SECTIONS MAY BE APPROVED IF BASED ON ENGINEERING ANALYSIS BASED ON SUBGRADE "R" OR "CBR" VALUES DETERMINED BY SOIL TESTING. IN NO CASE SHALL THE A.C. THICKNESS BE LESS THAN THAT SHOWN.
3. RESIDENTIAL ONE-WAY STREET SHALL NOT EXCEED ONE THOUSAND FEET OR TWENTY RESIDENTIAL LOTS IN LENGTH WHICHEVER IS LESS.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
302	AGGREGATE BASE	CLARK COUNTY, LAS VEGAS AND NORTH LAS VEGAS LOCAL RESIDENTIAL URBAN AREA STREET SECTIONS		
401	BITUMINOUS PAVEMENT			
406	PRIME COAT			
407	FOG SEAL			
501	CONCRETE			
		DATE 2-10-00	DWG. NO. 207	PAGE 13



NOTES:

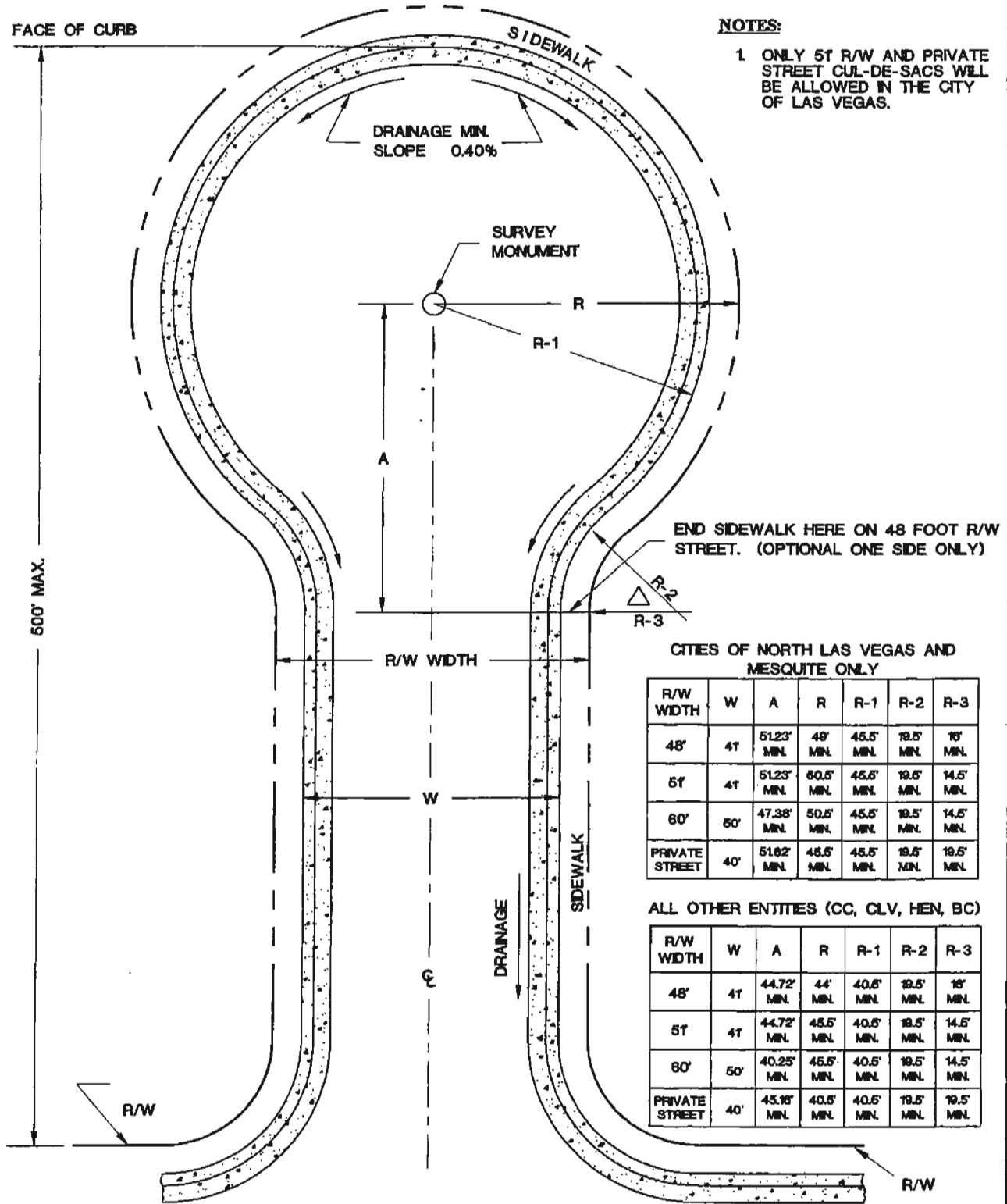
1. INTERSECTIONS SHALL HAVE 34 FOOT MINIMUM EDGE OF A.C. RETURN RADII.
2. COMPACTION OF AGGREGATE BASE AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE UNIFORM STANDARD SPECIFICATIONS.
3. STRUCTURAL SECTION SHOWN IS BASED ON A SUBGRADE "R" VALUE OF 20. OTHER STRUCTURAL SECTIONS MAY BE APPROVED IF BASED ON ENGINEERING ANALYSIS BASED ON "R" OR "CBR" VALUES DETERMINED BY SOIL TESTING.
4. CULVERTS MAY BE REQUIRED AT DRIVEWAYS.
5. A.C. PAVEMENT SHALL BE IN ACCORDANCE WITH SECTION 401 OF THE UNIFORM STANDARD SPECIFICATIONS. ALTERNATE PAVING MATERIALS MAY BE USED AT THE DISCRETION OF THE ENTITY.
6. PAVEMENT MARKINGS MAY BE REQUIRED AND INCLUDE DOUBLE YELLOW CENTERLINE, RAISED PAVEMENT MARKERS OR YELLOW PAINT, AND 4' OFFSET WHITE PAINTED EDGELINES.
7. PAVEMENT WIDTH AND PAVEMENT DEPTH MAY BE REDUCED TO 14 FEET AND 2 INCHES RESPECTIVELY BASED UPON A DETERMINATION BY THE LOCAL ENTITY THAT THE REDUCED WIDTH AND DEPTH WILL PROVIDE SATISFACTORY LIFE AND SAFE ROADWAY.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
302	AGGREGATE BASE	ACCESS ROADS (FOR USE IN HYDROGRAPHIC BASIN NO. 212) (PM-10 NON-ATTAINMENT AREAS)		
401	BITUMINOUS PAVEMENT			
		DATE 11-9-00	DWG. NO. 209	PAGE NO. 15

FACE OF CURB

NOTES:

- 1. ONLY 51' R/W AND PRIVATE STREET CUL-DE-SACS WILL BE ALLOWED IN THE CITY OF LAS VEGAS.



CITIES OF NORTH LAS VEGAS AND MESQUITE ONLY

R/W WIDTH	W	A	R	R-1	R-2	R-3
48'	41'	51.23' MIN.	49' MIN.	45.5' MIN.	19.5' MIN.	16' MIN.
51'	41'	51.23' MIN.	50.5' MIN.	45.5' MIN.	19.5' MIN.	14.5' MIN.
60'	50'	47.38' MIN.	50.5' MIN.	45.5' MIN.	19.5' MIN.	14.5' MIN.
PRIVATE STREET	40'	51.02' MIN.	45.5' MIN.	45.5' MIN.	19.5' MIN.	19.5' MIN.

ALL OTHER ENTITIES (CC, CLV, HEN, BC)

R/W WIDTH	W	A	R	R-1	R-2	R-3
48'	41'	44.72' MIN.	44' MIN.	40.5' MIN.	19.5' MIN.	16' MIN.
51'	41'	44.72' MIN.	45.5' MIN.	40.5' MIN.	19.5' MIN.	14.5' MIN.
60'	50'	40.25' MIN.	45.5' MIN.	40.5' MIN.	19.5' MIN.	14.5' MIN.
PRIVATE STREET	40'	45.10' MIN.	40.5' MIN.	40.5' MIN.	19.5' MIN.	19.5' MIN.

SPECIFICATION REFERENCE

**UNIFORM STANDARD DRAWINGS
CLARK COUNTY AREA**

CUL-DE-SAC

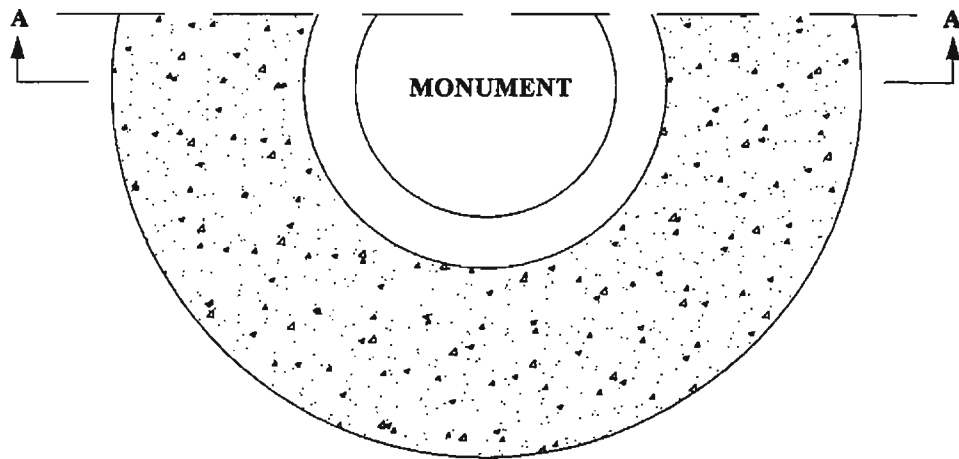
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DWG. NO.

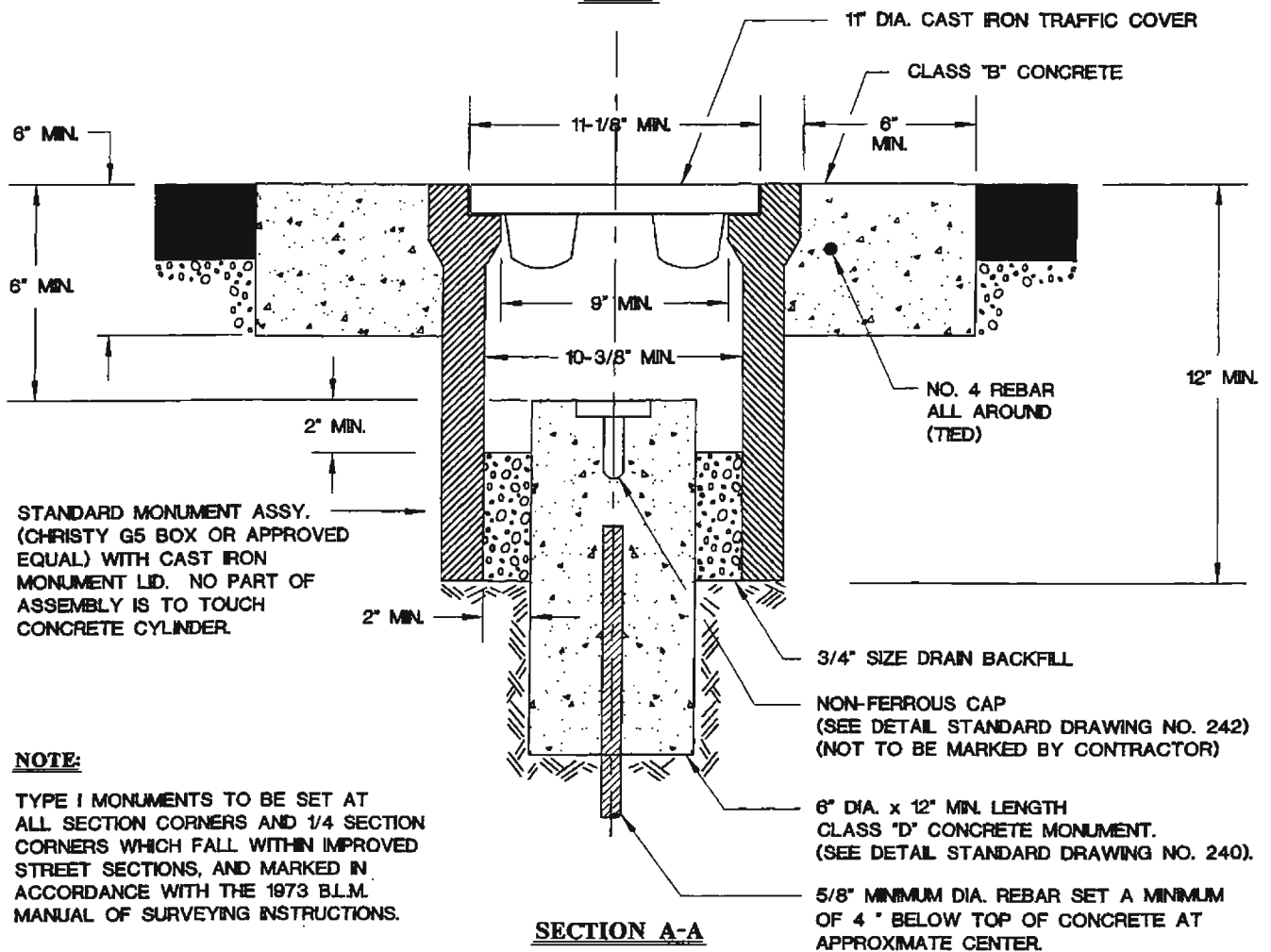
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PLAN

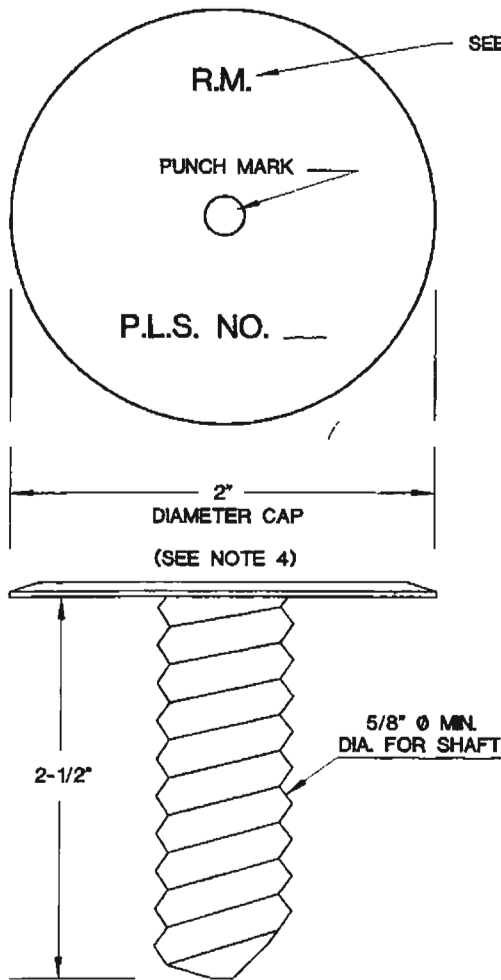


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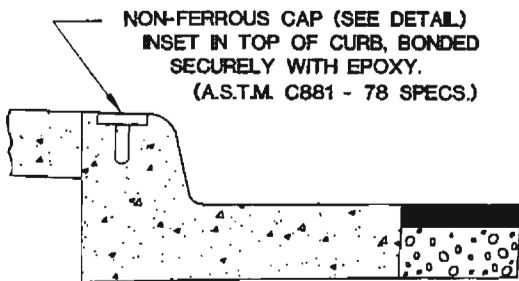
NOTE:

TYPE I MONUMENTS TO BE SET AT ALL SECTION CORNERS AND 1/4 SECTION CORNERS WHICH FALL WITHIN IMPROVED STREET SECTIONS, AND MARKED IN ACCORDANCE WITH THE 1973 B.L.M. MANUAL OF SURVEYING INSTRUCTIONS.

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
501	CONCRETE	TYPE I MONUMENT	
621	MONUMENTS		
704	BASE AGGREGATE		
		DATE 10-12-00	DWG. NO. 239
		PAGE NO. 45	



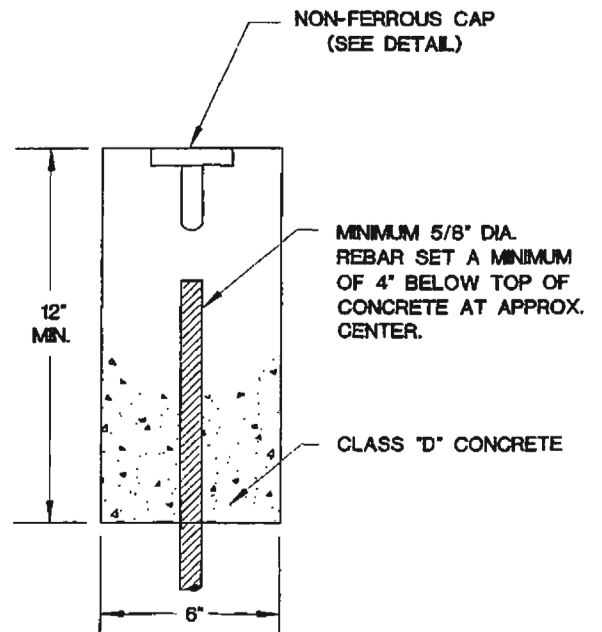
DETAIL
STANDARD CAP



TYPE IV-A MONUMENT
EXISTING CURB & GUTTER

NOTES:

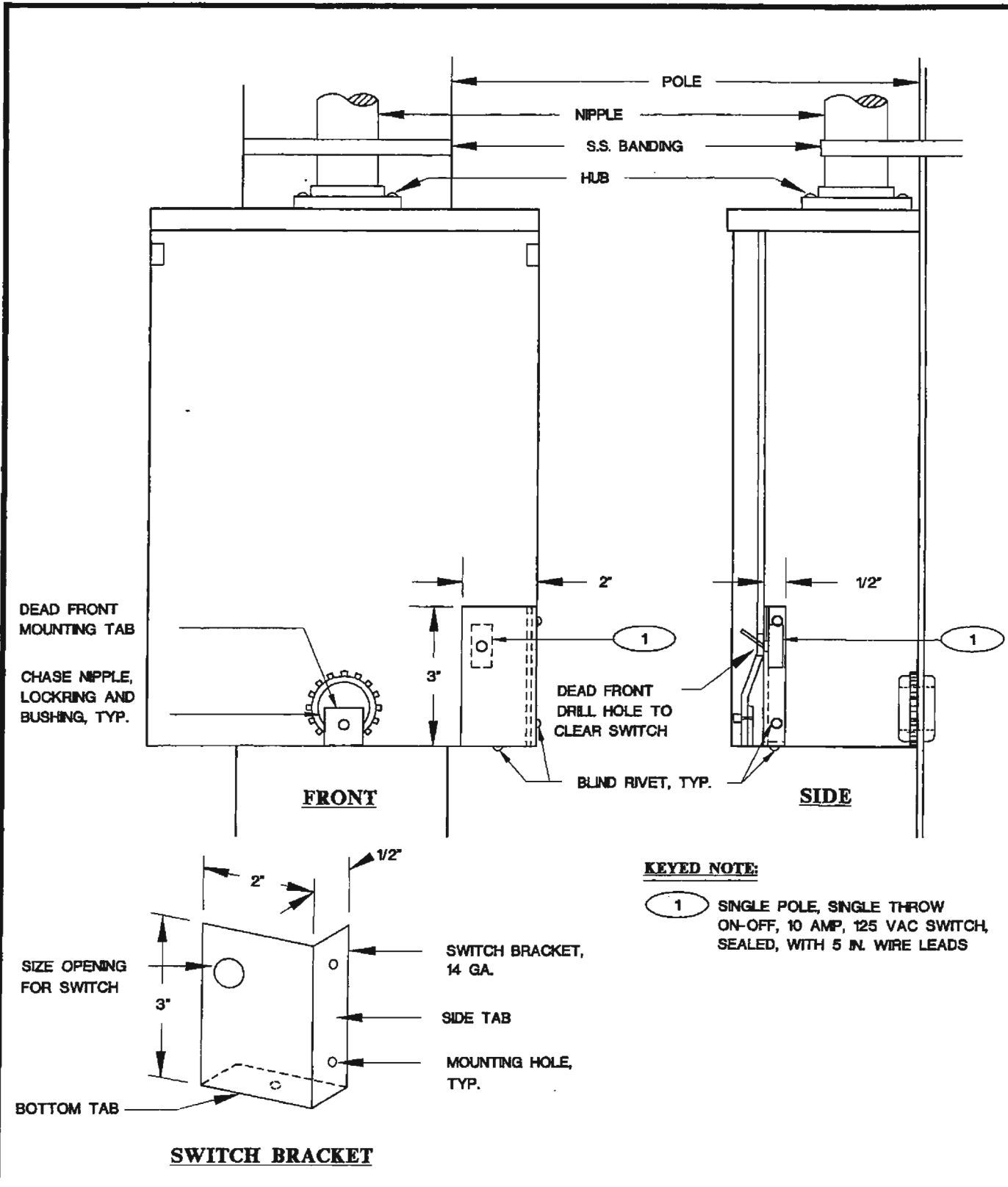
1. FOUR (4) TYPE IV REFERENCE MONUMENTS TO BE SET WITHIN A RADIUS OF TWENTY (20) TO ONE HUNDRED (100) FEET FROM ALL TYPE I, II, AND III MONUMENTS.
2. THE TIE DISTANCE AND THE INITIALS R.M. ARE TO BE STAMPED ON THE CAP, FOR TYPE IV MONUMENTS.
3. NON-FERROUS CAP TO BE MADE FROM CAST VIRGIN METAL IN ONE PIECE, FREE FROM CASTING IMPERFECTIONS, WITH CORRUGATED SHAFT.
4. TYPE III AND TYPE IV MONUMENT CAP DIAMETER MAY BE REDUCED TO 1".



TYPE IV-B MONUMENT
NO CURB & GUTTER

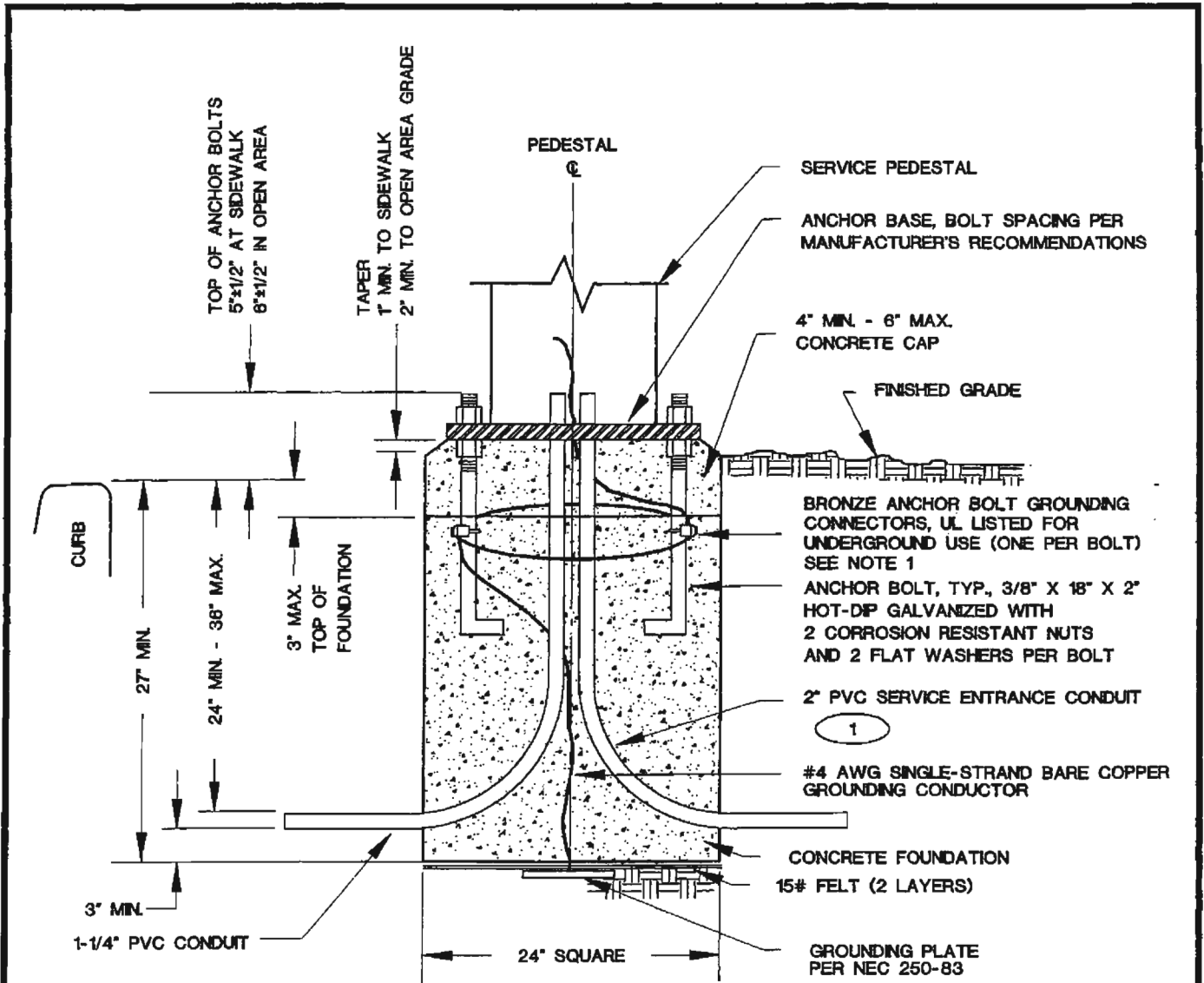
SPECIFICATION REFERENCE	
501	CONCRETE
621	MONUMENTS

UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
TYPE IV MONUMENT		
DATE 10-12-00	DWG. NO. 242	PAGE NO. 48



SPECIFICATION REFERENCE	
623	TRAFFIC SIGNALS & STREETLIGHTING

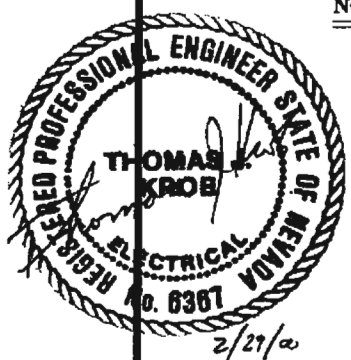
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
BYPASS SWITCH BRACKET FOR POLE MOUNTED STREETLIGHTING SERVICE (CITY OF MESQUITE ONLY)		
DATE 4-13-00	DWG. NO. 324	PAGE NO. 84



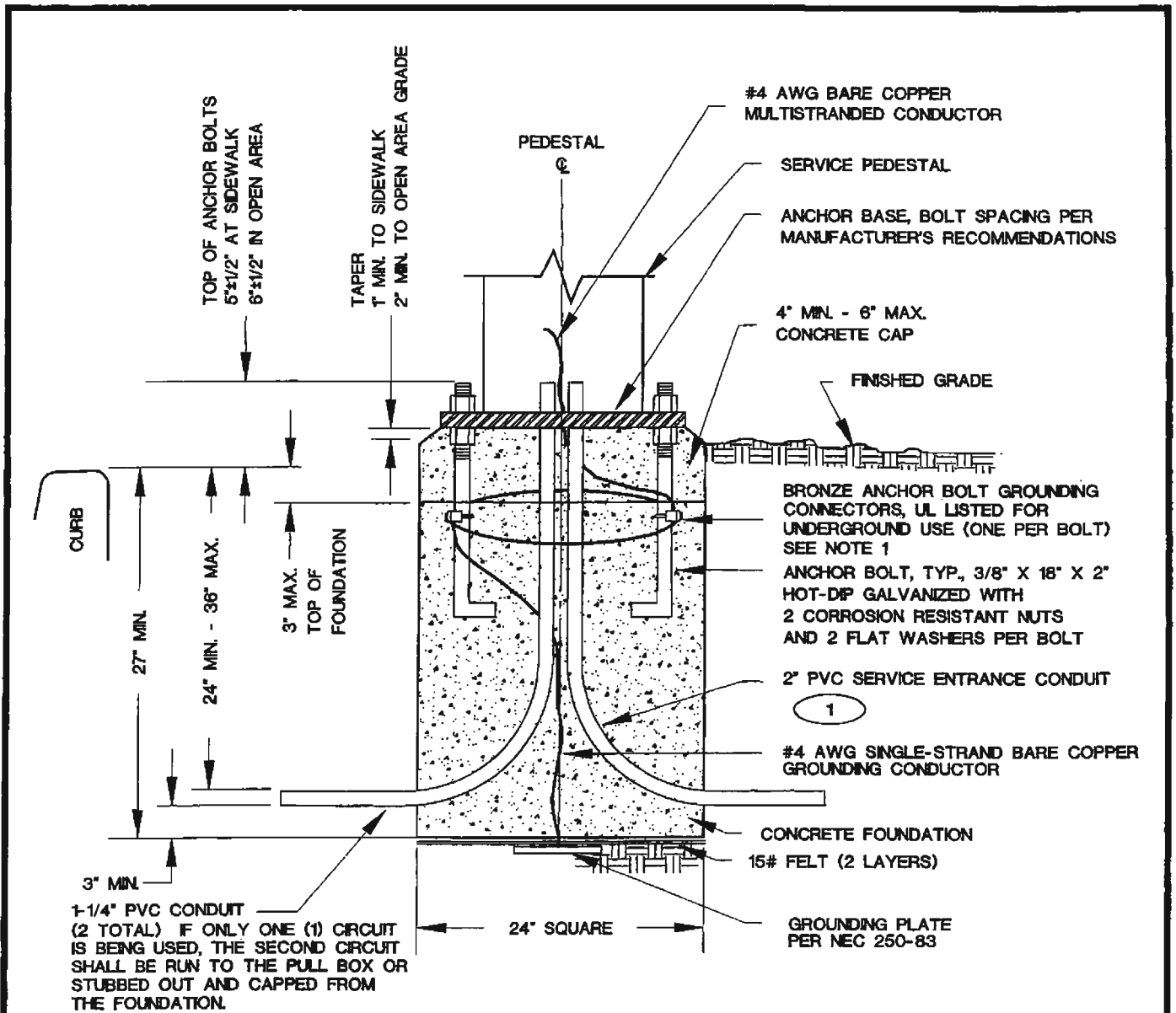
1 125 AMP SERVICE: 2" CONDUIT, 2 #1 THW AND 1 #6 WHITE THW
 200 AMP SERVICE: 2" CONDUIT, 2 #3/0 THW AND 1 #2 WHITE THW

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.
5. WIRE SIZES ARE BASED ON UNDERGROUND FEED.
6. WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG.



SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
501	PORTLAND CEMENT CONCRETE			
623	TRAFFIC SIGNALS & STREETLIGHTING	SERVICE PEDESTAL FOUNDATION (EXCEPT CLARK COUNTY AND CITY OF LAS VEGAS)		
		DATE 2-10-00	DWG. NO. 332	PAGE NO. 92

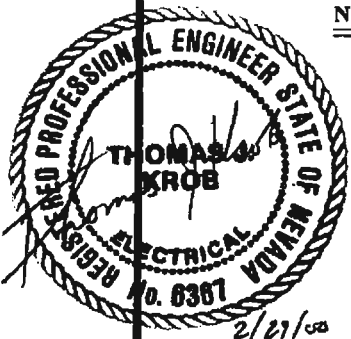


3" MIN.
 1-1/4" PVC CONDUIT
 (2 TOTAL) IF ONLY ONE (1) CIRCUIT
 IS BEING USED, THE SECOND CIRCUIT
 SHALL BE RUN TO THE PULL BOX OR
 STUBBED OUT AND CAPPED FROM
 THE FOUNDATION.

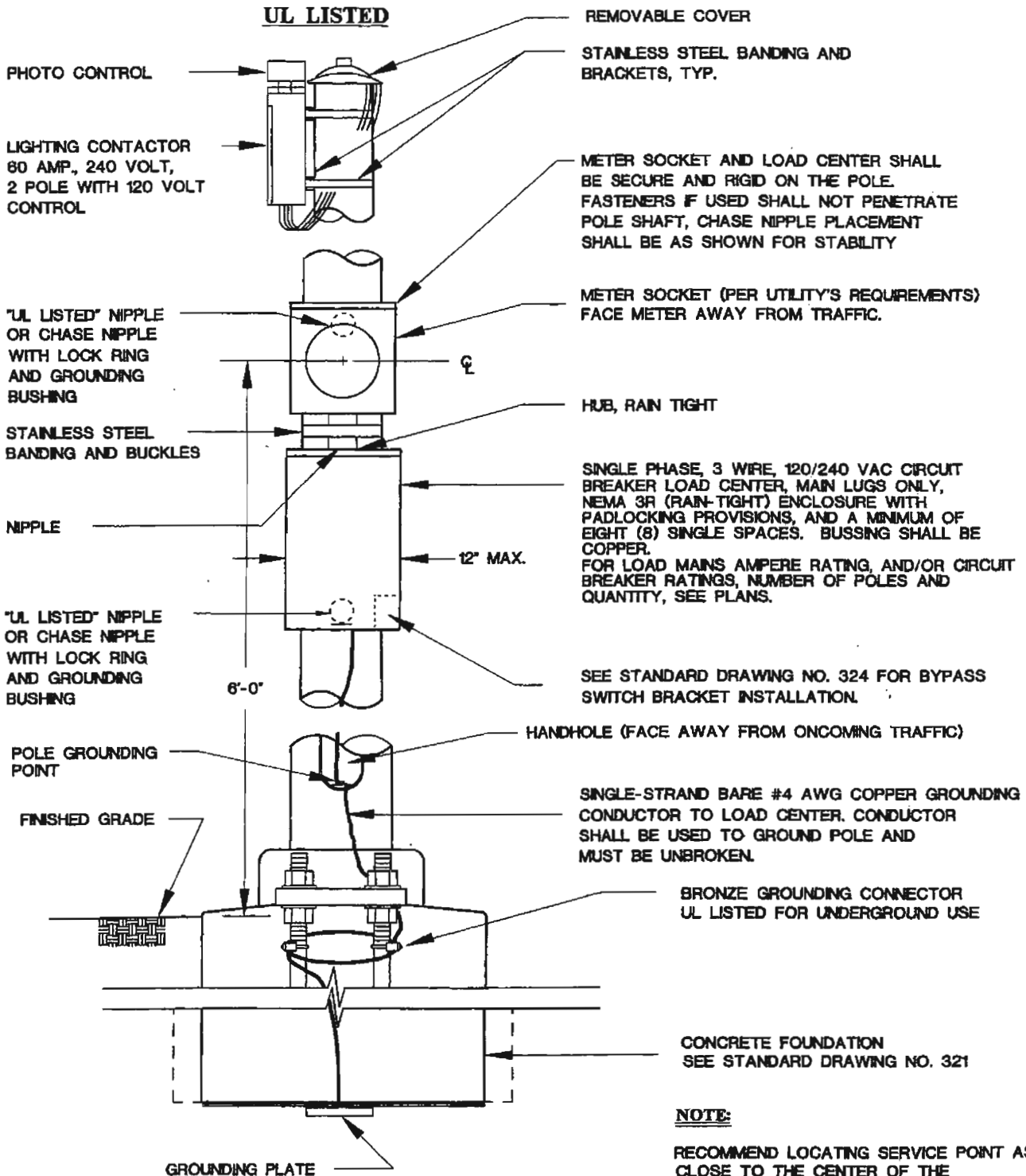
- 1 125 AMP SERVICE: 2" CONDUIT, 2 #1/0 THW AND 1 #1/0 WHITE THW
- 200 AMP SERVICE (CLARK COUNTY): 2" CONDUIT, 2 #4/0 THW AND 1 #4/0 WHITE THW
- 200 AMP SERVICE (LAS VEGAS): 2" CONDUIT, 2 #3/0 THW AND 1 #3/0 WHITE THW

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.
5. WIRE SIZES ARE BASED ON UNDERGROUND FEED.
6. WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG.

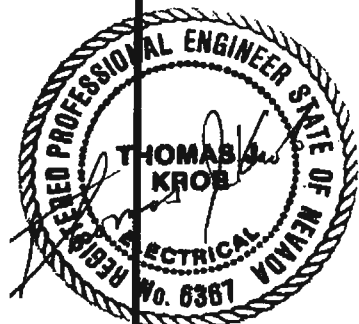
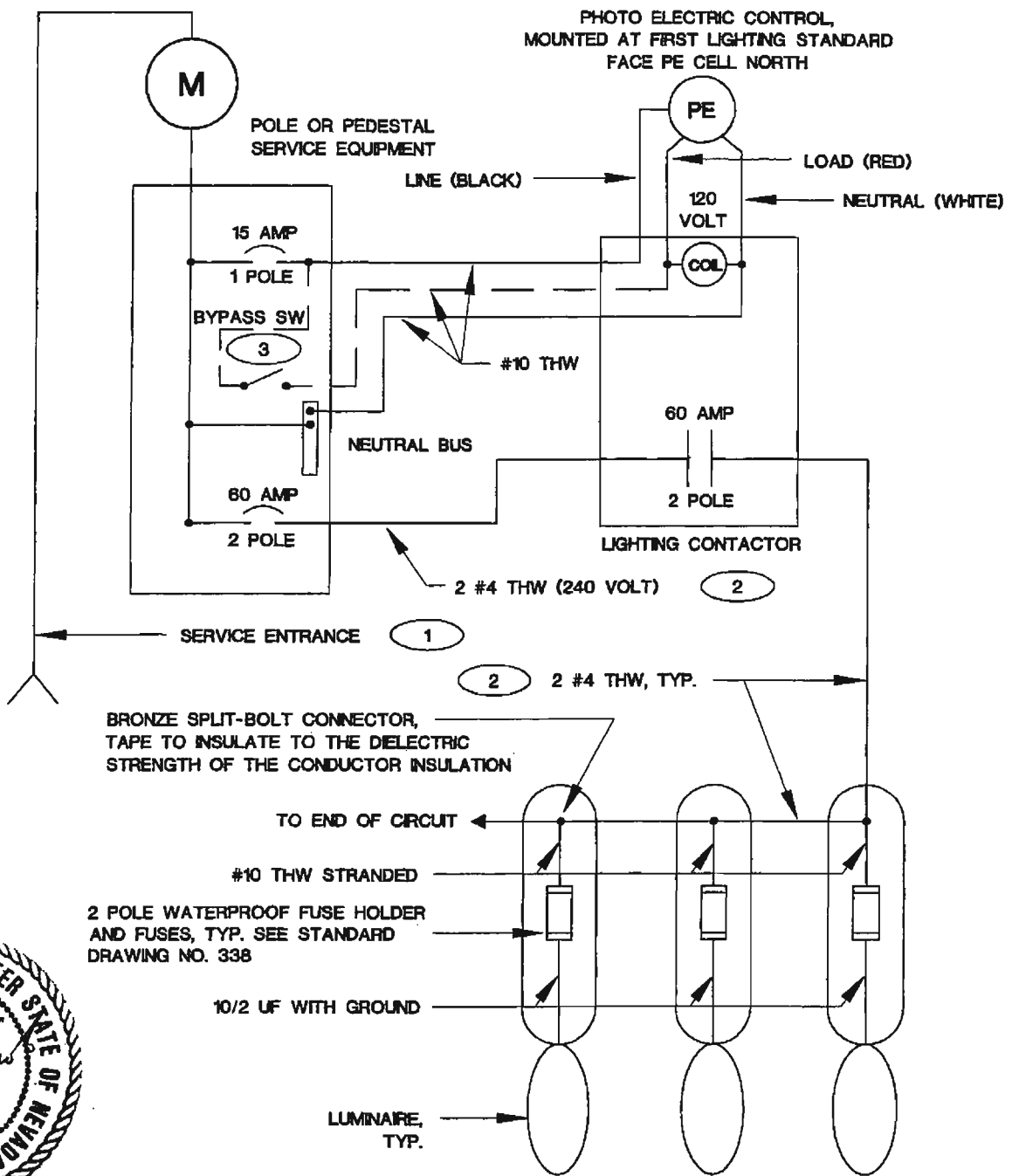


SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
501	PORTLAND CEMENT CONCRETE	CLARK COUNTY AND CITY OF LAS VEGAS	
623	TRAFFIC SIGNALS & STREETLIGHTING		
		SERVICE PEDESTAL FOUNDATION	
		DATE 2-10-00	DWG. NO. 332.1
		PAGE NO. 92.1	



SPECIFICATION REFERENCE	
623	TRAFFIC SIGNALS & STREETLIGHTING

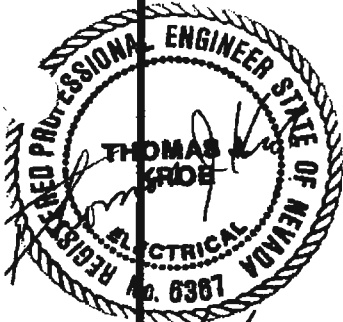
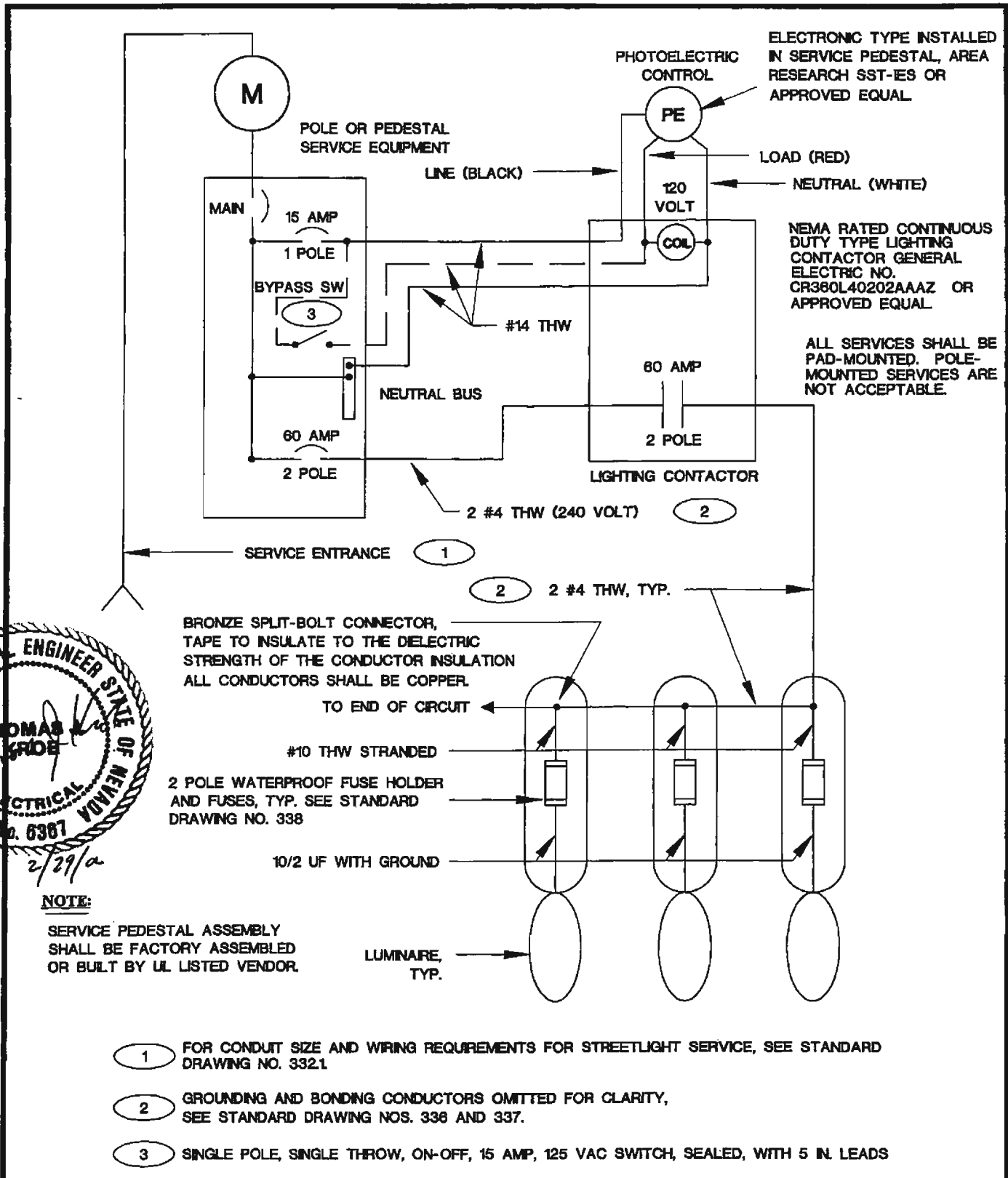
UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
STREETLIGHTING SERVICE POINT LOCATED ON STREETLIGHT STANDARD (CITY OF MESQUITE ONLY)		
DATE 4-13-00	DWG. NO. 333	PAGE NO. 93



2/29/a

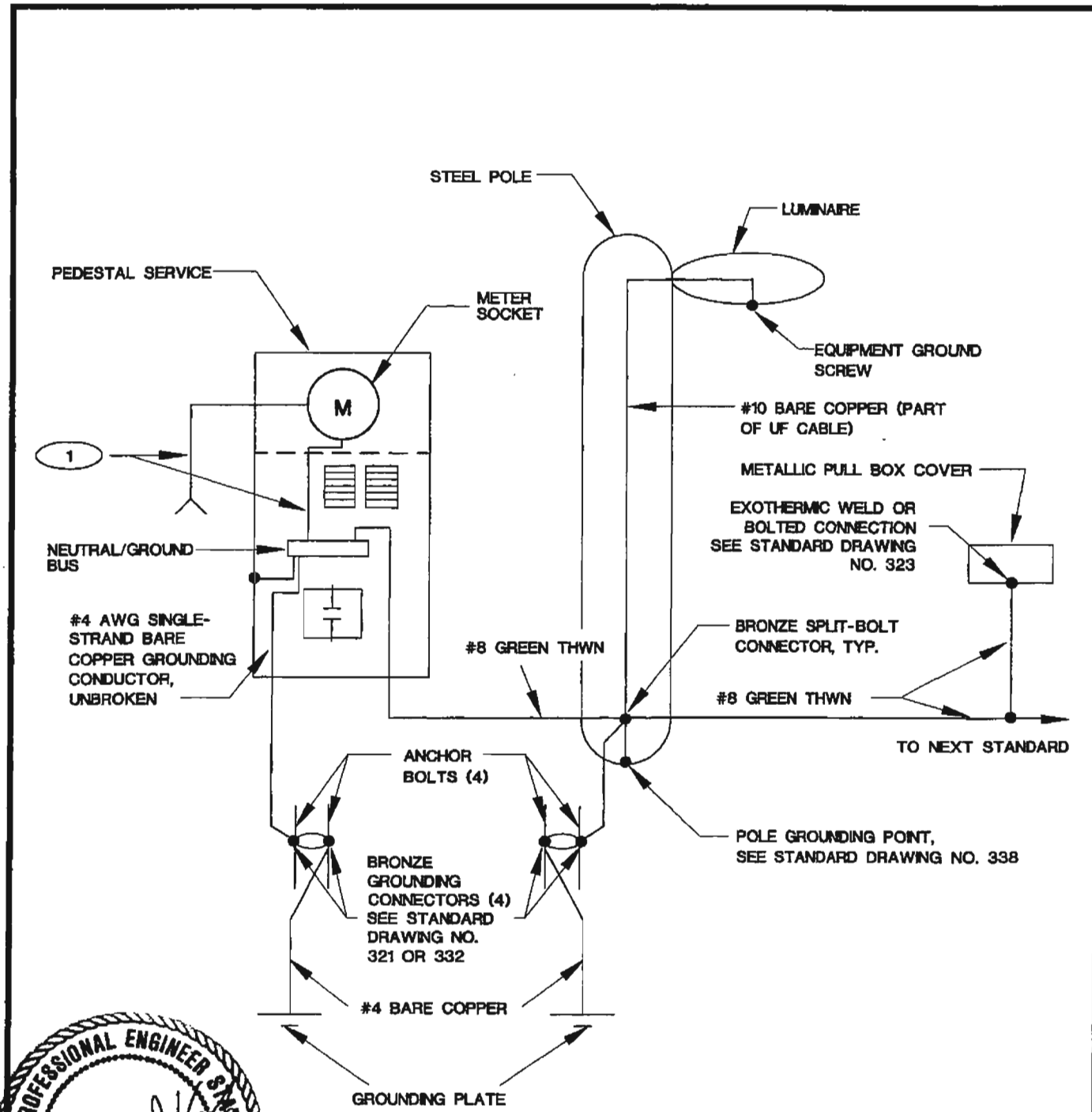
- 1 125 AMP SERVICE: 2" CONDUIT, 2 #1 THW AND 1 #6 WHITE THW
200 AMP SERVICE: 2" CONDUIT, 2 #3/0 THW AND 1 #2 WHITE THW
FOR POLE SERVICE, WIRE SIZES SHALL BE TEMPERATURE DERATED.
- 2 GROUNDING AND BONDING CONDUCTORS OMITTED FOR CLARITY,
SEE STANDARD DRAWING NOS. 336 AND 337.
- 3 SINGLE POLE, SINGLE THROW, ON-OFF, 10 AMP, 125 VAC SWITCH, SEALED, WITH 5 IN. LEADS

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
623	TRAFFIC SIGNALS & STREETLIGHTING	STREETLIGHT CIRCUIT ONE LINE DIAGRAM (EXCEPT CLARK COUNTY AND CITY OF LAS VEGAS)	
DATE 2-10-00		DWG. NO. 335	PAGE NO. 95

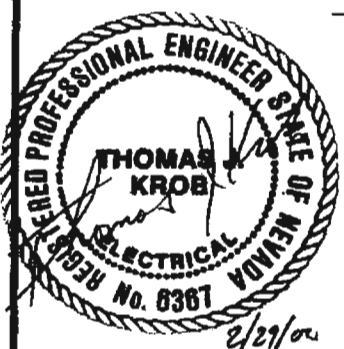


2/29/a

SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA	
623	TRAFFIC SIGNALS & STREETLIGHTING	CLARK COUNTY AND CITY OF LAS VEGAS	
		STREETLIGHT CIRCUIT ONE LINE DIAGRAM	
		DATE 2-10-00	DWG. NO. 335.1
		PAGE NO.	95.1



1 FOR CONDUIT SIZE AND WIRING REQUIREMENTS FOR STREET LIGHT SERVICE, SEE STANDARD DRAWING NO. 332.1 FOR LAS VEGAS AND CLARK COUNTY ONLY AND 332 FOR ALL OTHER ENTITIES.



SPECIFICATION REFERENCE		UNIFORM STANDARD DRAWINGS CLARK COUNTY AREA		
623	TRAFFIC SIGNALS & STREETLIGHTING	SYSTEM GROUNDING PLAN WITH PEDESTAL SERVICE		
		DATE 2-10-00	DWG. NO. 336	PAGE NO. 96