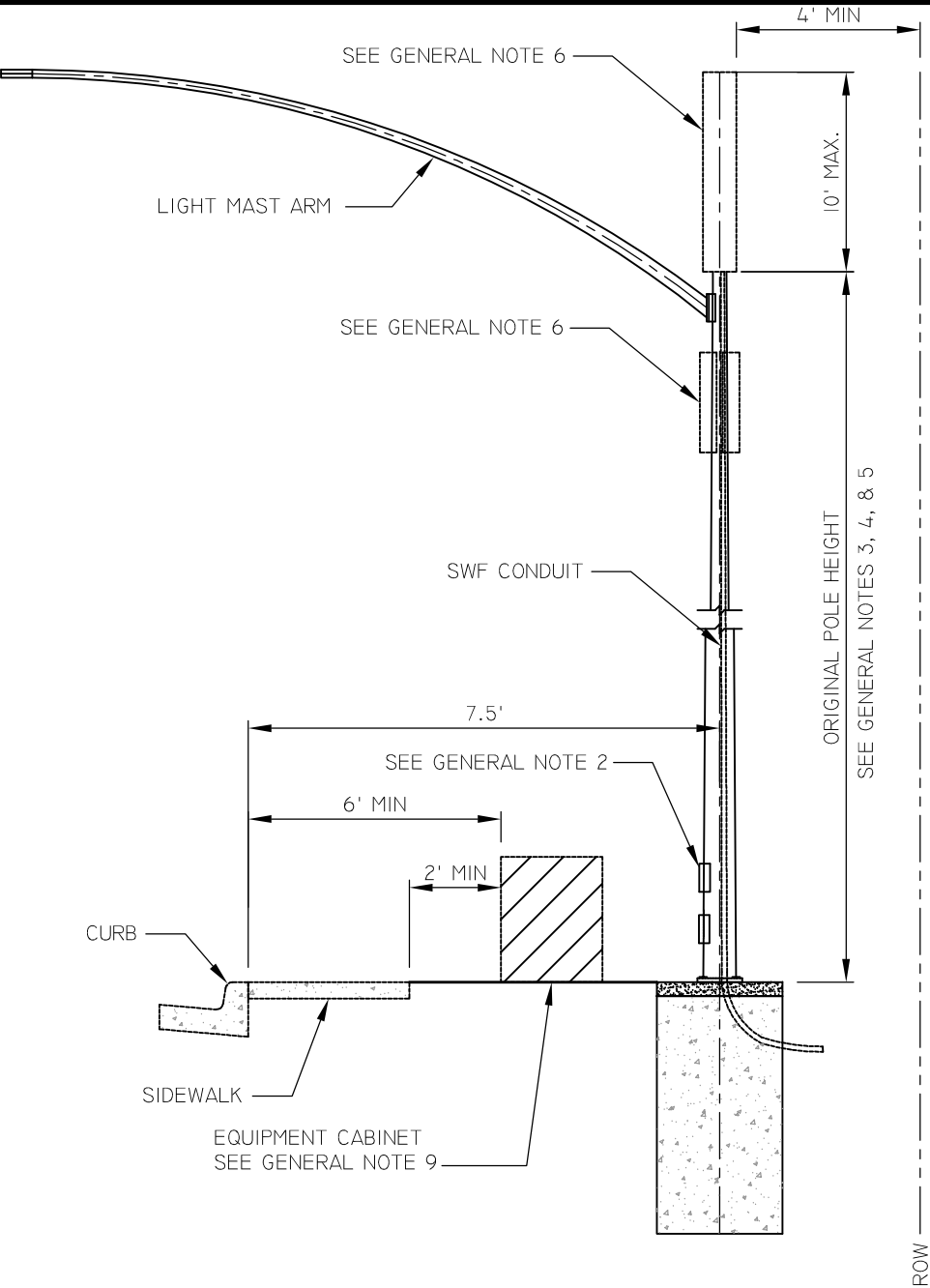


NOTES

- 1. SEE GENERAL NOTES ON CITY OF MESA STANDARD DETAIL M-112.01.5
- 2. STREET LIGHT CONSTRUCTION AND POLE REPLACEMENT SHALL MATCH BUILD TYPE OF EXISTING STREET LIGHT POLES PER APPLICABLE MESA STANDARD DETAILS AND SPECIFICATIONS M-70 THROUGH M-78.02

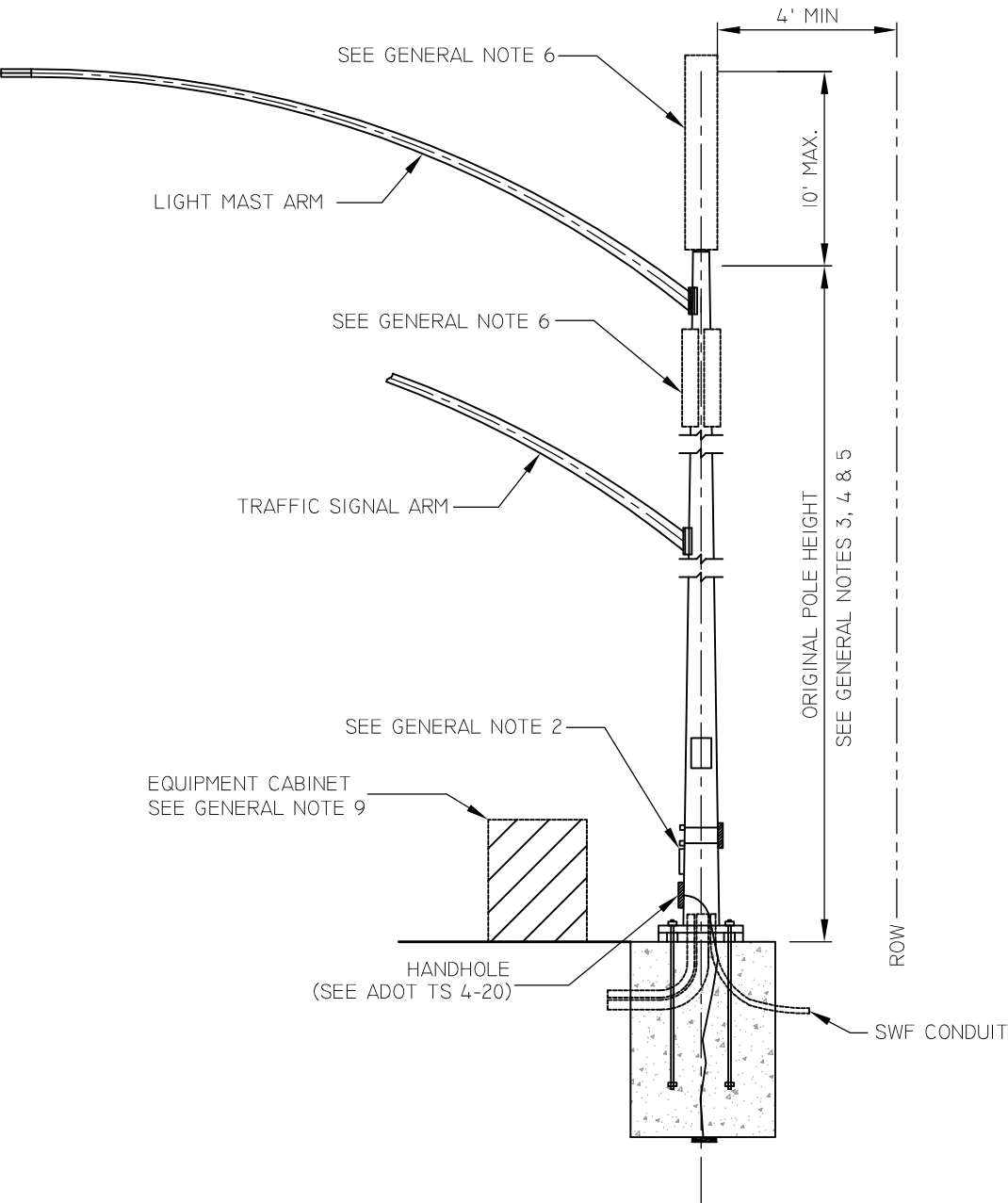


SMALL WIRELESS FACILITIES
STREETLIGHT POLE ATTACHMENT

NOT TO SCALE

NOTES

- 1. SEE GENERAL NOTES ON CITY OF MESA STANDARD DETAIL M-112.01.5
- 2. TRAFFIC SIGNAL CONSTRUCTION AND POLE REPLACEMENT SHALL MATCH BUILD TYPE OF EXISTING TRAFFIC SIGNAL POLES PER APPLICABLE MESA STANDARD DETAILS AND SPECIFICATIONS M-94.04 THROUGH M-94.06 AND M-92.03.
- 3. THE TOP OF THE FOUNDATION SHALL MATCH ELEVATION OF BACK OF SIDEWALK OR BACK OF CURB IF NO SIDEWALK IS PRESENT.
- 4. POLES LOCATED WITHIN TWENTY (20) FEET OF OVERHEAD ELECTRIC UTILITY WILL NOT BE ALLOWED.



SMALL WIRELESS FACILITIES
TRAFFIC SIGNAL POLE ATTACHMENT

NOT TO SCALE

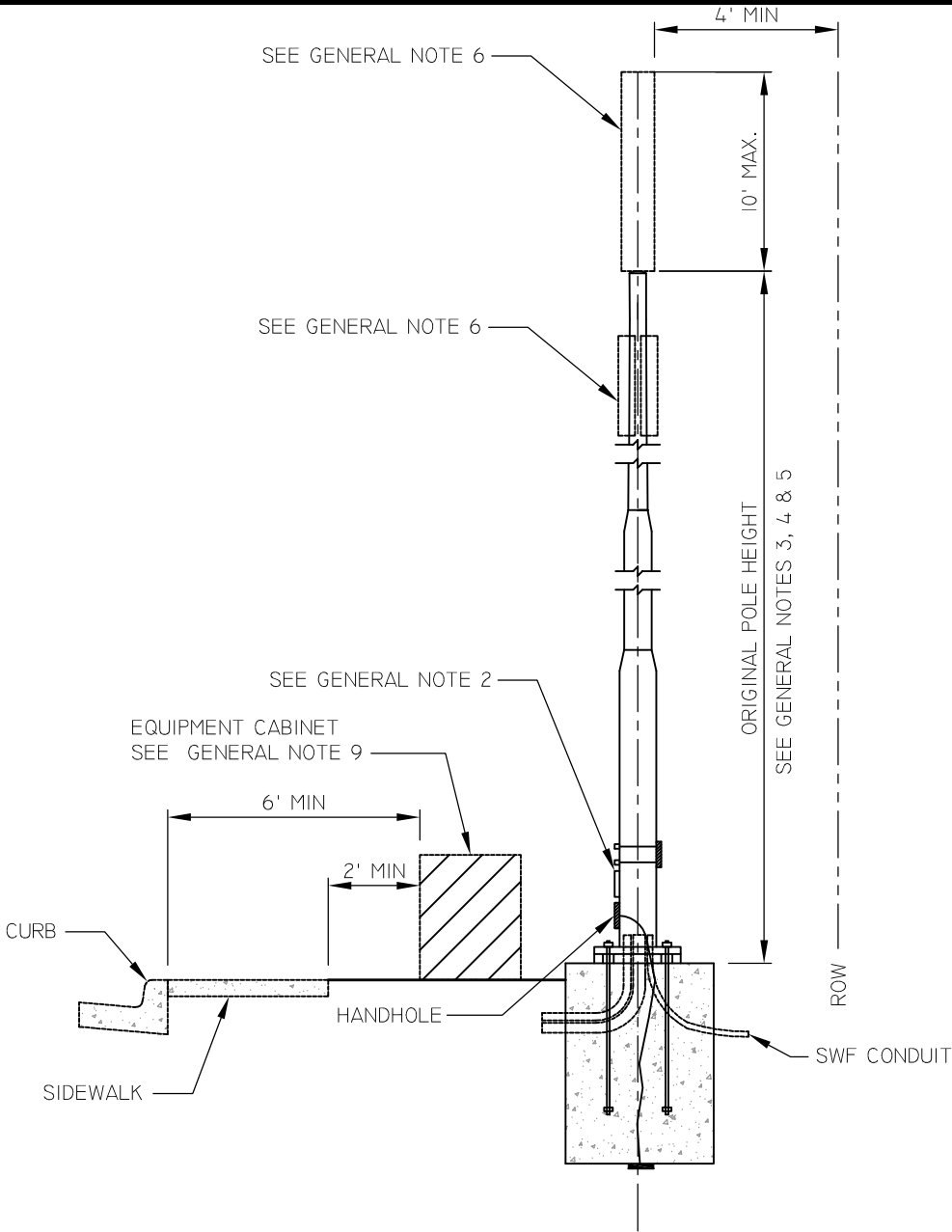


SMALL WIRELESS FACILITIES ON TRAFFIC SIGNALS

DETAIL NO.
M-112.01.2

NOTES

- 1. SEE GENERAL NOTES ON CITY OF MESA STANDARD DETAIL M-112.01.5
- 2. ALL REPLACEMENT ITS MONO-POLES SHALL ALSO INCLUDE ANY CAMERAS, PHOTO-CELL OR SENSORS AS REQUIRED.



SMALL WIRELESS FACILITIES CITY
MONO-POLE ATTACHMENT

NOT TO SCALE

NOTES

- 1. SEE GENERAL NOTES ON CITY OF MESA STANDARD DETAIL M-112.01.5
- 2. THE MONOPOLE SHALL BE A SELF-SUPPORTING FREE STANDING STRUCTURE. THE DIAMETER OF THE MONOPOLE AND SWF SHALL BE A MAXIMUM OF 40 INCHES.
- 3. THE MONOPOLE SHALL NOT EXTEND ABOVE THE HEIGHT OF THE TALLEST EXISTING POLE WITHIN 500 FEET BY MORE THAN TEN (10) FEET AT A MAXIMUM OF 50 FEET.
- 4. MONOPOLE SHALL BE LOCATED PER THE CITY OF MESA ZONING ORDINANCE, CITY OF MESA ENGINEERING DESIGN STANDARDS AND FCC REQUIREMENTS, WHICH EVER IS MOST STRINGENT.
- 5. ALL MONOPOLES TO BE CONCEALED AS PLANT OF SIMILAR HEIGHT SELECTED FROM THE ACCEPTABLE PLANT LIST IN THE CITY OF MESA LANDSCAPE & IRRIGATION STANDARDS OR AS LIGHT POLE OF SIMILAR HEIGHT.

FREESTANDING STEALTH TREE

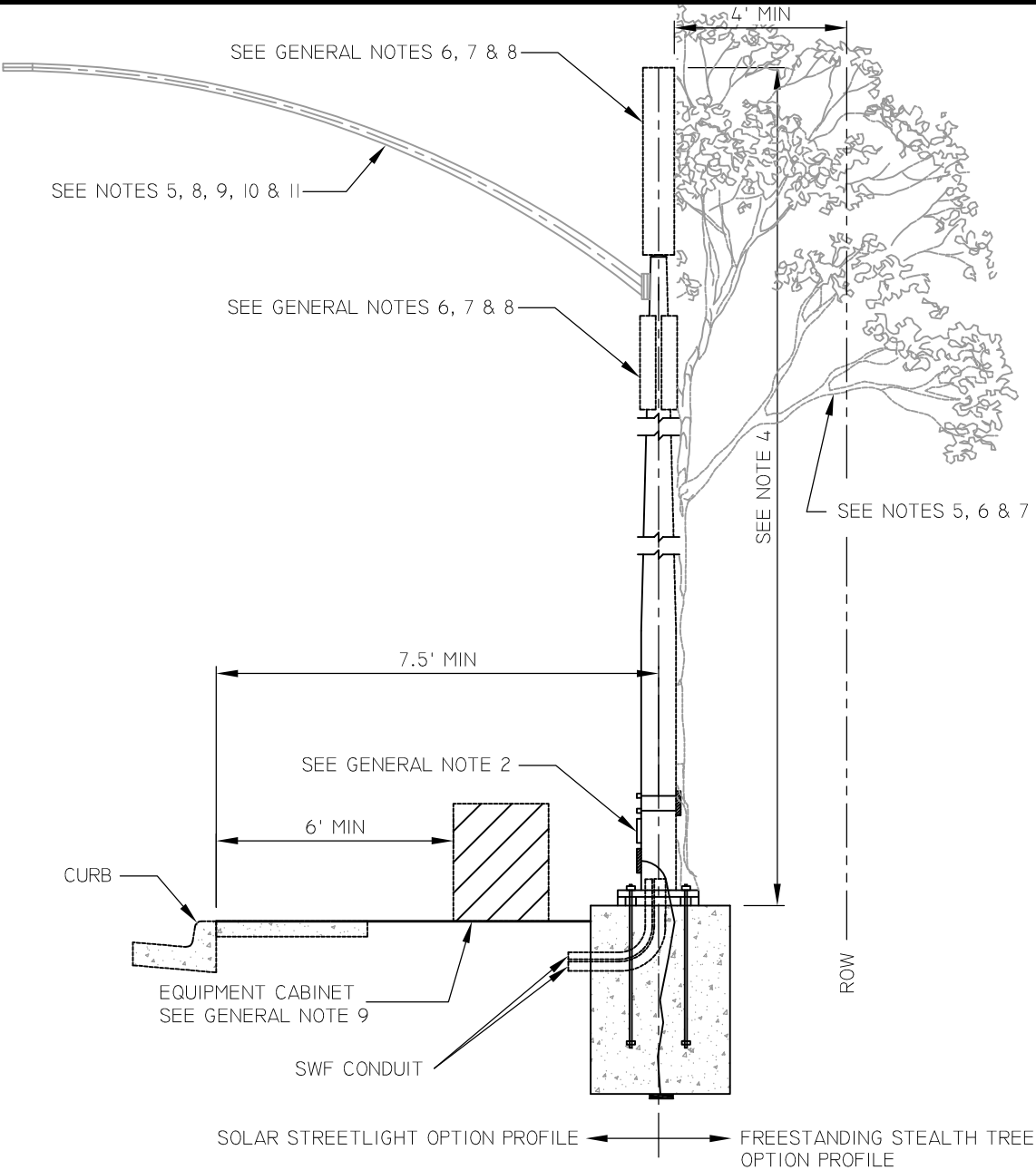
- 6. FAUX TREES MUST BE DESIGNED WITH A MINIMUM OF 3.5 BRANCHES PER FOOT FOR FULL DENSITY COVERAGE WITH LIMITED SPACING BETWEEN THE BRANCHES. SEVENTY PERCENT OF THE BRANCHES SHALL BE 8-FOOT OR LONGER.
- 7. BRANCHES SHALL EXTEND BEYOND THE LENGTH OF THE ANTENNA BY A MINIMUM OF 24-INCHES. TREES SHALL BE DESIGNED TO MIMIC THE NATURAL APPEARANCE OF THEIR SPECIES. THERE SHALL BE NO GAPS IN BRANCH COVERAGE. NO EXPOSED MOUNTING APPARATUS MAY REMAIN WITHOUT THE ASSOCIATED ANTENNAE.

SOLAR STREETLIGHT

- 8. MONOPOLE STREETLIGHT FIXTURE TO BE SOLAR POWERED AND MAINTAINED BY LICENSEE.
- 9. MONOPOLE STREETLIGHT TO MEET THE REQUIREMENTS OF CITY OF MESA STANDARD DETAIL M-94.08.
- 10. STREETLIGHT FOUNDATION TO MEET THE REQUIREMENTS OF CITY OF MESA STANDARD DETAIL M-76.02.
- 11. STREETLIGHT MAST ARM TO MEET THE REQUIREMENTS OF CITY OF MESA STANDARD DETAIL M-79.01.

ALTERNATIVE DESIGN

- 12. THE LICENSEE MAY SUBMIT AN ALTERNATIVE DESIGN TO CONCEAL SMALL WIRELESS FACILITY FOR APPROVAL BY THE CITY OF MESA.



SMALL WIRELESS FACILITIES PRIVATE
MONO-POLE

NOT TO SCALE

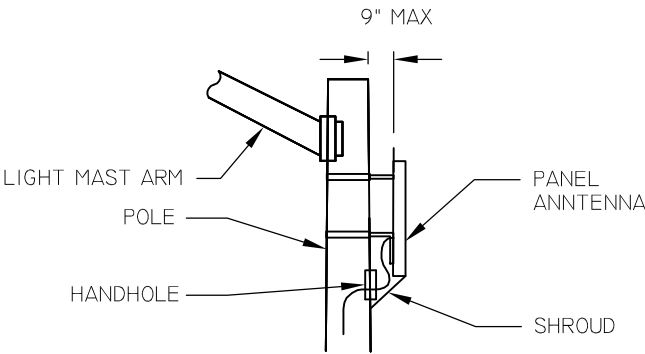


SMALL WIRELESS FACILITIES ON PRIVATE MONO-POLES

DETAIL NO.
M-112.01.4

GENERAL NOTES

- 1. A SMALL WIRELESS FACILITY (SWF) CONSISTS OF AN ANTENNA OR ANTENNAE THAT ARE NOT MORE THAN SIX CUBIC FEET IN VOLUME AND ALL OTHER WIRELESS EQUIPMENT ASSOCIATED WITH THE FACILITY LESS THAN TWENTY-EIGHT CUBIC FEET IN CUMULATIVE VOLUME PER A.R.S. 9-59I.
- 2. EACH SWF SHALL BE IDENTIFIED BY A PERMANENTLY INSTALLED STAINLESS STEEL TAG, NO LARGER THAN FOUR (4) BY SIX (6) INCHES MOUNTED FIVE (5) FEET ABOVE GRADE, CLEARLY IDENTIFYING THE WIRELESS COMMUNICATIONS SERVICE PROVIDER'S NAME, ADDRESS, EMAIL CONTACT AND EMERGENCY PHONE NUMBER. THE TAG SHALL BE LOCATED SIX (6) INCHES ABOVE THE HANDHOLE.
- 3. EACH SITE LICENSE LOCATION SHALL RECEIVE A NEW REPLACEMENT POLE PROVIDED BY THE WIRELESS COMMUNICATIONS SERVICE PROVIDER LOCATED NO MORE THAN FIVE (5) FEET FROM EXISTING LOCATION OR AS DIRECTED BY THE CITY OF MESA TRAFFIC ENGINEER.
- 4. THE REPLACEMENT POLE AND SWF SHALL NOT INCREASE THE DIAMETER OF THE EXISTING POLE BY MORE THAN SIXTY (60) PERCENT.
- 5. THE SWF OR REPLACEMENT POLE SHALL NOT EXTEND ABOVE THE HEIGHT OF THE EXISTING POLE BY MORE THAN TEN (10) FEET NOT TO EXCEED 50 FEET ABOVE GROUND LEVEL.
- 6. ANTENNAE SHALL BE LIMITED TO SNUG-MOUNT, CANISTER-MOUNT OR CONCEALED ANTENNA. PANEL ANTENNAE SHALL BE LOCATED NO MORE THAN 9" FROM THE FACE OF THE POLE. ONLY CANISTER-MOUNT OR CONCEALED ANTENNAE SHALL BE ALLOWED IN RESIDENTIAL AREAS. ALL PENETRATIONS SHALL BE SEALED TO PREVENT THE INFILTRATION OF WATER OR PESTS.
- 7. ANTENNAE SHALL BE MOUNTED WITH NO DOWN TILT.
- 8. ALL ANTENNAE WITH EXPOSED CABLES SHALL HAVE A SHROUD INSTALLED ON THE ANTENNA OR ANTENNA MOUNTING POSTS TO CONCEAL THE CABLES. SHROUD SHALL BE A FORTY-FIVE (45) DEGREE ANGLE AWAY FROM THE BOTTOM OF THE ANTENNA TOWARD THE POLE.
- 9. ALL REPLACEMENT POLES AND EQUIPMENT SHALL BE INSTALLED IN A LOCATION THAT DOES NOT IMPAIR OR INTERFERE WITH SIGHT VISIBILITY TRIANGLES (SVT) PER SECTION 211 OF THE CITY OF MESA ENGINEERING & DESIGN STANDARDS.
- 10. EQUIPMENT OTHER THAN ANTENNA SHALL BE LOW-PROFILE AND PAD-MOUNTED UNLESS OTHERWISE APPROVED BY THE CITY OF MESA.
- 11. THE POWER FOR THE SWF SHALL BE INDEPENDENT OF THE CITY OF MESA ASSET AND METERED SEPARATELY.
- 12. ALL WIRING SHALL BE LOCATED INSIDE A CONDUIT, INSIDE THE POLE, AND SEPARATE FROM THE CITY OF MESA CABLING.
- 13. ALL ELECTRICAL WORK MUST FOLLOW THE MOST CURRENT ADOPTED NATIONAL ELECTRIC CODE.
- 14. ALL DISTURBED LANDSCAPE AND IRRIGATION SYSTEMS SHALL BE REPLACED OR REPAIRED IN-KIND.
- 15. EXISTING POLE, MAST ARM AND ALL ASSOCIATED EQUIPMENT TO BE SALVAGED AND RETURNED TO THE CITY OF MESA. THE CONTRACTOR SHALL REMOVE THE FOUNDATION ENTIRELY AND BACKFILL PER MAG STANDARD DETAIL 200-I. THE REMOVAL AND SALVAGE LOCATION SHALL BE COORDINATED WITH THE CITY OF MESA CONSTRUCTION INSPECTOR.
- 16. PROVIDE ILLUMINATED ENERGY ISOLATING DEVICE (KILL SWITCH) AT EACH SWF THAT IS ACCESSIBLE BY CITY OF MESA PERSONNEL FOR MAINTENANCE AND EMERGENCY PURPOSES.



EQUIPMENT MOUNTING DETAIL