NOTES:

LOCATION OF SERVICES:

TO MEET THE REQUIREMENTS FOR SAFETY AND MAXIMIZE LIGHTNING PROTECTION, THE "SERVICE POINT MAIN" FROM THE UTILITY PRIMARY SERVICE POINT MUST BE WITHIN SIX (6') FEET OF THE TRAFFIC SIGNAL CONTROLLER CABINET. ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CITY/COUNTY TO A SERVICE POLE OR PEDESTAL WITH EXTERNAL MAIN BREAKER (MAIN BREAKER) AT A MUTUALLY ACCEPTABLE POINT WITHIN THE RIGHT-OF-WAY. SERVICE POINT INCLUDES GALVANIZED STEEL CONDUIT TO A POLE 6' BELOW GROUND LINE, TWO CIRCUIT MAIN BREAKER, POWER ISOLATION ASSEMBLY WHERE REQUIRED, METER LOOP IF REQUIRED BY LOCAL UTILITY COMPANY, ELECTRICAL CONDUCTORS AND WEATHERHEAD, WHERE STREET LIGHTING IS INCLUDED AS PART OF SIGNAL INSTALLATION, STREET LIGHTING CIRCUIT 120/208 Volt, N.M.C. RATED, TYPICALLY WILL BE KEPT SEPARATE FROM THE CIRCUIT SERVING TRAFFIC SIGNAL, SERVICE WIRE AND WIRING FROM THE CONTROLLER TO MAIN BREAKER IS PROVIDED BY THE CONTRACTOR AS A PART OF THIS CONTRACT, WIRE AND WIRING FROM MAIN RESPONSIBILITY OF THE CITY/COUNTY.

METER LOOP:

ALL COMPONENTS OF THE SERVICE POINT WITH THE EXCEPTION OF THE WIRE AND WIRING ABOVE THE MAIN BREAKER IS FUNNED AND INSTALLED BY THE CONTRACTOR. WIRING FROM MAIN BREAKER INCLUDING CONNECTION TO THE UTILITY, IS THE RESPONSIBILITY OF THE CITY/COUNTY. IF METER LOOP IS REQUIRED, METER BASE AND HARDWARE IS PROVIDED BY THE CITY/COUNTY AND INSTALLED BY THE CONTRACTOR.

SUPPLEMENT GROUND WIRING:

SIMPLEMENT GROUND WIRING ARE FUSION WELDED TO 1/4" AWG SOLID COPPER GROUND WIRE, ATTACHMENT TO PRIMARY GROUND MAY BE AN APPROVED CLAMP. GROUND BOGS ARE LOCATED IN A BOX APPROVED BY THE ENGINEER MEETING THE SAME LOADING REQUIREMENTS AS SECTION 30 CONCRETE PULL BOX OF THE STANDARD SPECIFICATIONS, WITH THE EXCEPTION TO DIMENSIONS, THE CONCRETE PULL BOX MAY BE EITHER ROUND OR SQUARE APPROXIMATELY SIX (6') INCHES MAXIMUM HORIZONTAL DIMENSIONS AND SIX (6') INCHES DEPTH. STAND WITHIN 3' FROM CABLE BOX IN THE 3' X 6' X 6' BOX.

METAL SERVICE POLE:

2" NMC WITH 2 X 2C/#8 A.W.G.

CONCRETE BASE:

WITHIN SIX (6') FEET OF CABINET IN TYPE 1 PULL BOX

SERVICE loop:

2C/#8 & 1C/#8 E.G.C.

GROUND WIRE BY CONTRACTOR

SUSPENSION:

GROUND LINE SURGE SUPPRESSOR

POWER LINE SURGE SUPPRESSOR

GROUND WIRE TO SERVICE GROUND

E.G.C. NOT BONDED TO NEUTRAL AT CABINET

CABINET:

1C/#8 E.G.C.

TO SERVICE GROUND
1C/#8 E.G.C.

BONDED TO CHASSIS

BREAKER:

8 AMP 2 POLE BREAKER

20 AMP FOR LIGHTING NEUTRAL & SAFETY GROUND

BONDED TO CHASSIS

CABINET:

120 VAC

240 VAC

WHERE REQUIRED

STREET LIGHT CIRCUITS

2C/#12 A.W.G. UF FOR STREET LIGHT CIRCUITS

2C/#12 A.W.G. "TYPICAL"

3-3-2003, CONSISTING OF A 1C/#8 A.W.G. GREEN WIRE

NOTE: ELECTRICAL GROUND CONDUCTOR (E.C.G.) ADDED WHERE REQUIRED

CONTRACT:

3C/#6 A.W.G. (MINIMUM) BY CONTRACTOR

2C/#6 A.W.G. (MINIMUM)

2C/#6 & 1C/#8 E.G.C.

BY CONTRACTOR

2C/#12 UF STREET LIGHT CKTS

AS PER NATIONAL ELECT. CODES.

STREET LIGHT CIRCUITS

2C/#12 UF FOR STREET LIGHT CIRCUITS

2C/#12 UF FOR STREET LIGHT CIRCUITS

2C/#12 UF STREET LIGHT CKTS

2C/#12 UF STREET LIGHT CKTS

SERVICE POINT INSTALLATION WITH SUPPLEMENT GROUNDING ARRAY

SUSPENSION:

GROUND WIRE TO SERVICE GROUND

20 AMP FOR LIGHTING NEUTRAL & SAFETY GROUND

BONDED TO CHASSIS

CABINET:

120 VAC

240 VAC

WHERE REQUIRED

STREET LIGHT CIRCUITS

2C/#12 A.W.G. UF FOR STREET LIGHT CIRCUITS

2C/#12 A.W.G. "TYPICAL"

3-3-2003, CONSISTING OF A 1C/#8 A.W.G. GREEN WIRE

NOTE: ELECTRICAL GROUND CONDUCTOR (E.C.G.) ADDED WHERE REQUIRED

CONTRACT:

3C/#6 A.W.G. (MINIMUM) BY CONTRACTOR

2C/#6 A.W.G. (MINIMUM)

2C/#6 & 1C/#8 E.G.C.

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