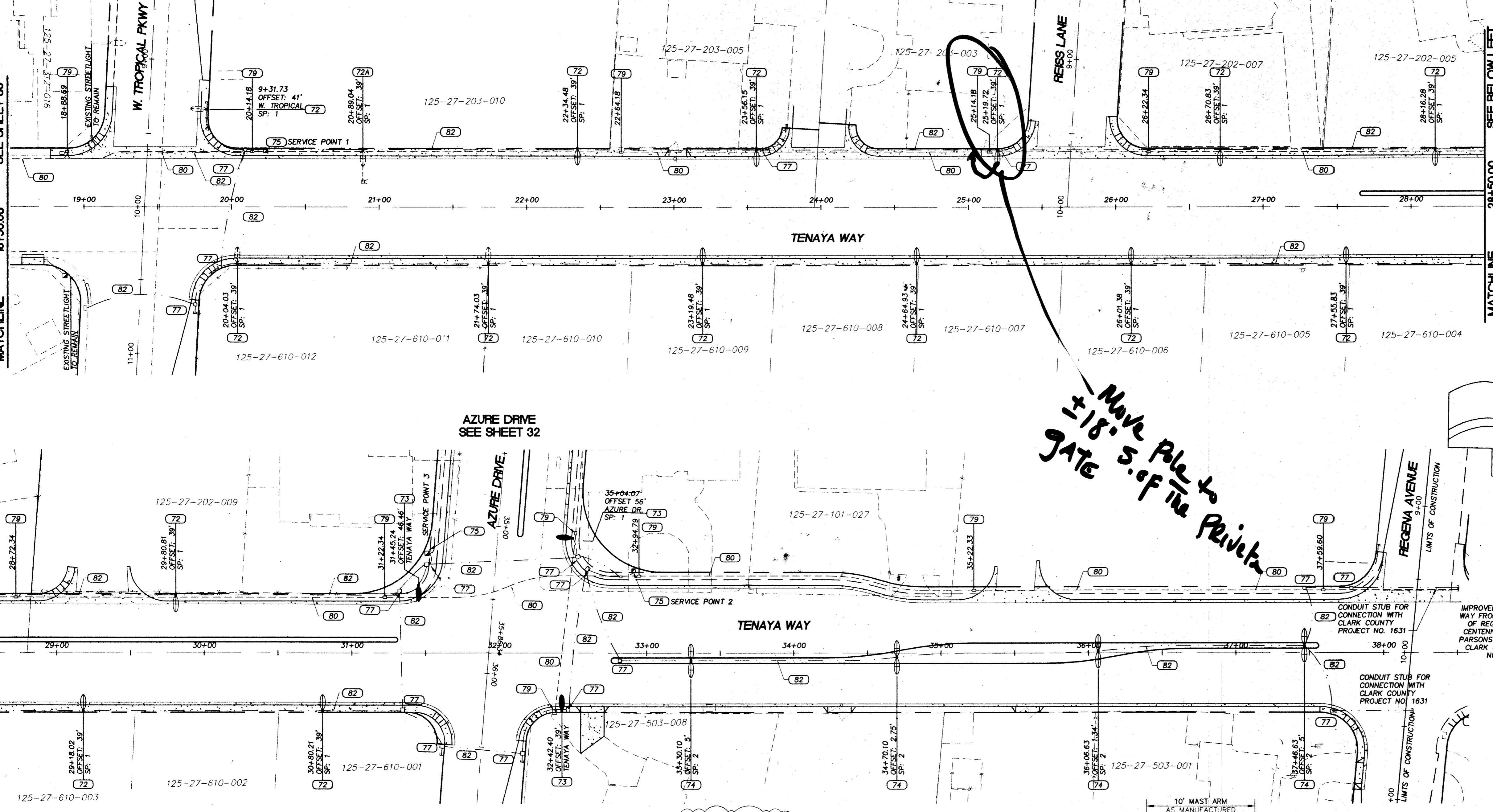
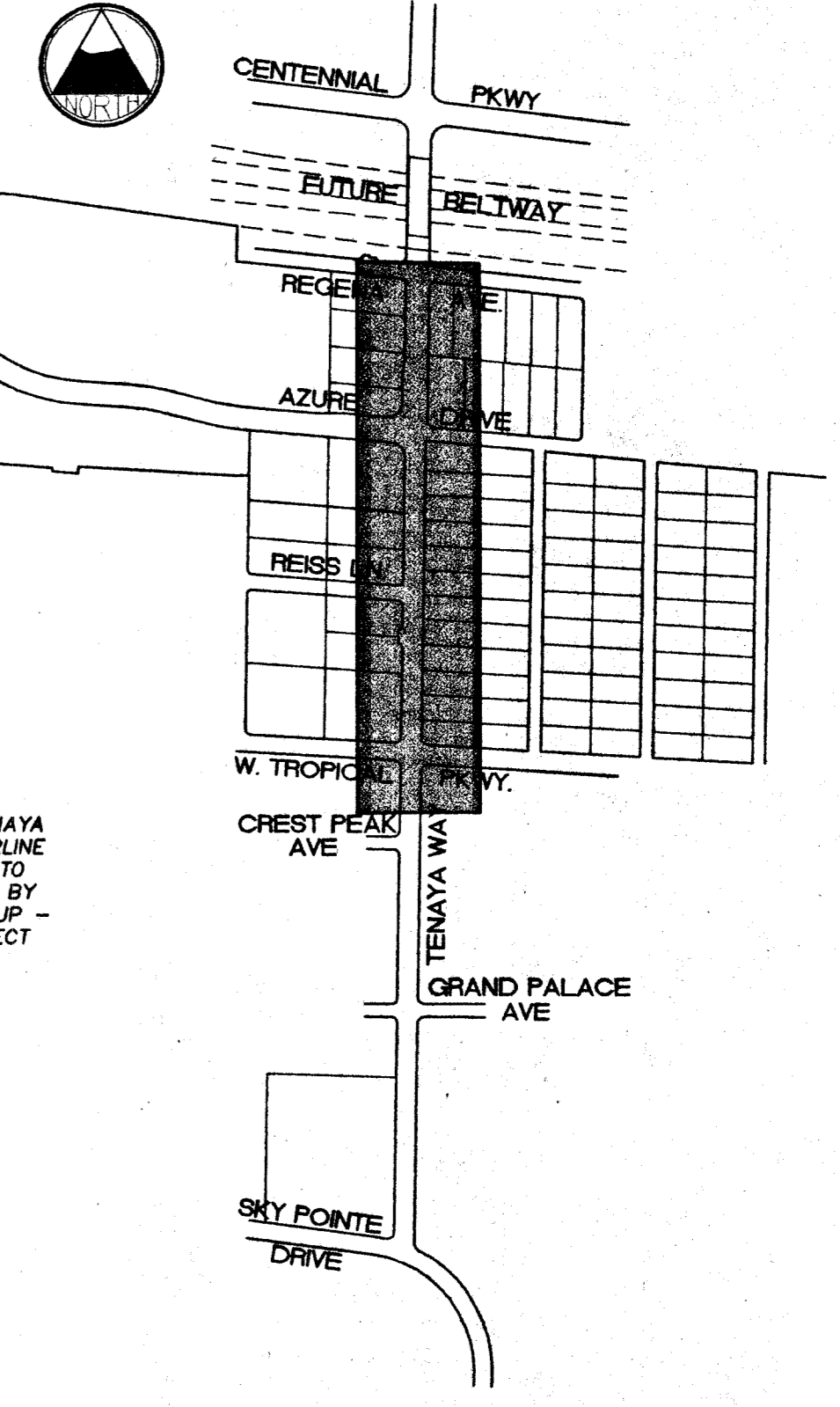
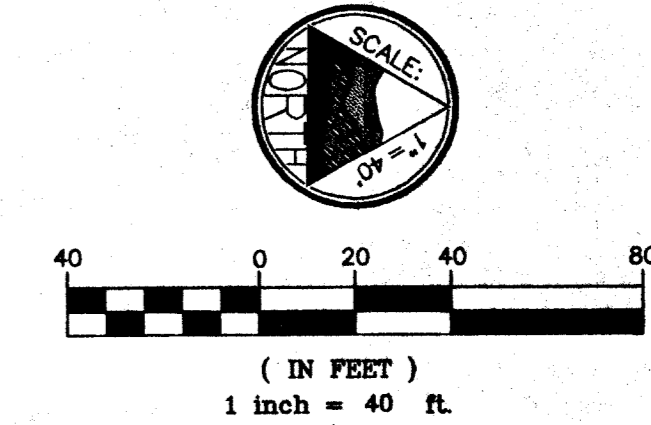


**CONSTRUCTION NOTES**

- STREET LIGHTING**
- (70) NEW STREET LIGHT ASSEMBLY (SEE TOWN CENTER STANDARDS)
  - (71) TYPE XX-A SIGNAL AND LUMINAIRE POLE WITH 250-WATT HPS LUMINAIRE AND FOUNDATION (SEE SHEET 28)
  - (72) LUMINAIRE FUSE BOX NO. 314-3311 AND FOUNDATION
  - (72A) TYPE XX-30 SIGN & BEACON ASSEMBLY WITH 250-WATT HPS LUMINAIRE (USD NO. 404-400 SHEET 2) AND FOUNDATION
  - (72B) TYPE XX-30 LUMINAIRE POLE WITH 400-WATT HPS LUMINAIRE AND FOUNDATION (SEE SHEET 24)
  - (74) TOWN CENTER DOUBLE MAST ARM OVERHEAD STREETLIGHT WITH 250-WATT HPS LUMINAIRE
  - (75) 200 AMP SERVICE PEDESTAL (USD NO. 330&332)
  - (76) 125 AMP SERVICE PEDESTAL (USD NO. 330&332)
  - (77) NO. 3-1/2 PULLBOX (USD NO. 326)
  - (78) NO. 5 PULLBOX (USD NO. 326)
  - (79) NO. 7 PULLBOX - INTERCONNECT (USD NO. 326)
  - (80) 3" CONDUIT (INTERCONNECT) WITH 25 PAIR #22 WIRE
  - (81) NOT USED
  - (82) 2" PVC CONDUIT FOR STREETLIGHT CIRCUITS WITH 2 #4 THW, 1 #8 THW



**FIXTURE SCHEDULE**

| FIXT. TYPE | MANUFACTURER NAME | CATALOG NUMBER           | VOLT AMPS | MOUNTING                   | LAMP TYPE    | REMARKS   | VOLT |
|------------|-------------------|--------------------------|-----------|----------------------------|--------------|---|------|
| A          | GARDCO            | CA-22-2-3-250HPS-240-BLA | 620       | REFER TO POLE BASE DIAGRAM | (2) 250W HPS | GARDCO FORM 10 TWIN CUTOFF LUMINAIRE W/ 26"-3" POLE & 10' MAST ARMS | 240  |
| B          | GARDCO            | CA-22-2-3-400HPS-240-BLA | 920       | REFER TO POLE BASE DIAGRAM | (2) 400W HPS | GARDCO FORM 10 TWIN CUTOFF LUMINAIRE W/ 26"-3" POLE & 10' MAST ARMS | 240  |

**STREETLIGHT CIRCUIT VERIFICATION**  
CIRCUIT 1

EXISTING SERVICE POINT CAPACITY = 60 AMPS  
 MAXIMUM ALLOWABLE DRAW = 48 AMPS  
 EXISTING CIRCUIT LOAD = 0 AMPS  
 PROPOSED LUMINAIRE LOAD TO CIRCUIT:  
 100W @ 1.0 AMPS = 10 AMPS  
 200W @ 1.5 AMPS = 30 AMPS  
 16 250W @ 1.5 AMPS = 24 AMPS  
 3 400W @ 3.9 AMPS = 11.7 AMPS

TOTAL PROPOSED LOAD = 35.7 AMPS

EXISTING PLUS PROPOSED LOAD = 35.7  
 REMAINING AVAILABLE LOAD = 12.3

**STREETLIGHT CIRCUIT VERIFICATION**  
CIRCUIT 2

EXISTING SERVICE POINT CAPACITY = 60 AMPS  
 MAXIMUM ALLOWABLE DRAW = 48 AMPS  
 EXISTING CIRCUIT LOAD = 0 AMPS  
 PROPOSED LUMINAIRE LOAD TO CIRCUIT:  
 100W @ 1.0 AMPS = 10 AMPS  
 200W @ 1.5 AMPS = 30 AMPS  
 8 250W @ 1.5 AMPS = 12 AMPS  
 400W @ 3.9 AMPS = 15.6 AMPS

TOTAL PROPOSED LOAD = 12 AMPS

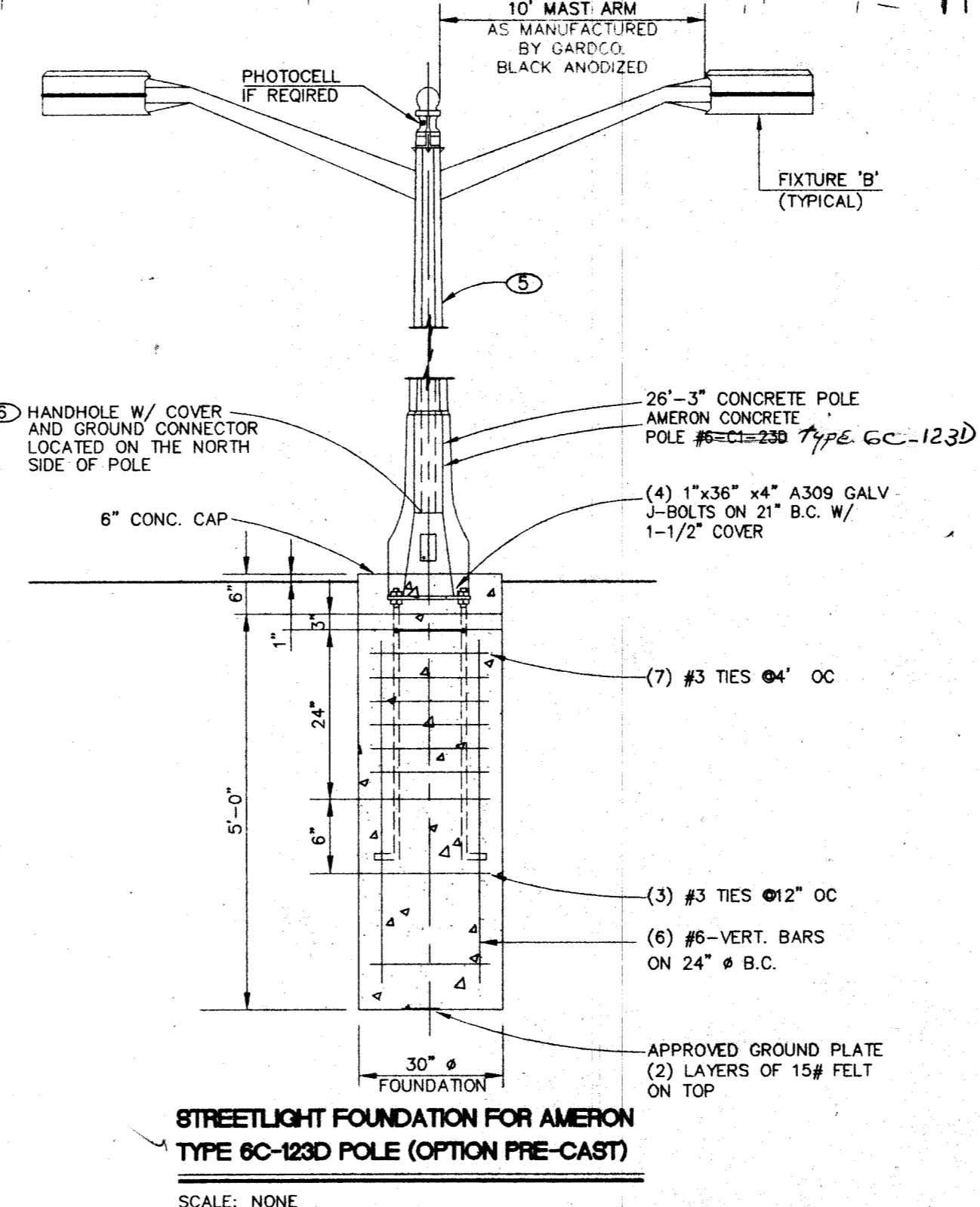
EXISTING PLUS PROPOSED LOAD = 12  
 REMAINING AVAILABLE LOAD = 36

**GENERAL NOTES**

1. DIRECT BURIAL TYPE GROUND MOUNTED LUMINAIRES SHALL BE CONSTRUCTED OF U.V. STABILIZED, 150°C RATED FIBERGLASS REINFORCED COMPRESSION MOLDED POLYESTER. JUNCTION BOX SHALL BE INTEGRALLY MOLDED AND PROVIDED WITH (2) 1" CONDUIT ENTRIES AND HAVE PROVISION FOR FIELD DRILLED 1" BRANCH OUTLET. JUNCTION BOX SHALL HAVE A SEPARATE COMPOSITE COVER W/ PROVISIONS FOR FIXTURE DISCONNECT WITHOUT ENTERING THE WIRING COMPARTMENT. ENCLOSURE COMPOUND FOR WIRING COMPARTMENT SHALL BE PROVIDED WITH THE LUMINAIRE AS WELL AS KING TYPE SILICONE FILLED WIRE NUTS FOR LANDSCAPE LIGHTING. THE BALLAST SHALL BE HIGH-POWER FACTOR CLASS H, 180°C, ENCAPSULATED IN A WATERPROOF RESIN WITH WATERPROOF SORBSETS THAT ALLOW REMOVAL OF THE BALLAST WITHOUT ENTERING THE WIRING COMPARTMENT. A SEPARATE SEALED CUTOFF SWITCH SHALL BE INSTALLED IN SERIES WITH THE PRIMARY SIDE OF THE BALLAST TO DISCONNECT POWER TO THE BALLAST WHEN THE LAMP MODULE IS REMOVED FOR RELAMPING. THE LAMP MODULE AN LENS RING SHALL BE CONSTRUCTED OF U.V. STABILIZED, 200°C RATED COMPOSITE AND SHALL BE PREWired WITH 200°C WIRE AND WATERPROOF QUICK CONNECT. THE LAMP MODULE SHALL BE ADJUSTABLE TO 15 WITHIN OPENING THE LAMP COMPARTMENT. THE OPTICAL ASSEMBLY SHALL BE ALZAK MATERIAL WITH AN ASYMMETRIC OUTPUT UTILIZING AN USHIO 3200M DOUBLE ENDED LAMP. INSTALLED AT THE FACTORY, THE LAMP MODULE SHALL BE SEALED BY MEANS OF A CAM LOCKING SYSTEM AND A SILICONE O-RING GASKET. NO TOOLS SHALL BE NECESSARY TO OPEN THE LAMP HOUSING. THE MAIN HOUSING SHALL ALSO BE SEALED BY MEANS OF A SILICONE O-RING AND ROTATING LENS FRAME. BOTH LENSES SHALL BE TEMPERED GLASS.

2. ALL PULL BOXES CONSTRUCTED IN MEDIAN ISLAND SHALL HAVE CONCRETE COLLARS IN ACCORDANCE WITH USD NO. 329

- NOTES**
1. FIXTURE TO BE MOUNTED AT SIDE NEAREST CURB.
  2. 12" DIA. x 18" DEEP CONCRETE MOUNTING BASE. TOP FLUSH WITH FINISHED GRADE.
  3. REFER TO DRAWINGS FOR CIRCUITING
  4. REFER TO GENERAL NOTE 1 & 2
  5. WIRING TO LUMINAIRES FROM HANDHOLE SHALL INCLUDE GROUND.
  6. PROVIDE (1) IN-LINE (2) POLE FUSE (10A). PER POLE. LOCATED AT THE HANDHOLE.



**DISCLAIMER NOTE**

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

**PRIMAS AND ASSOCIATES CONSULTING ENGINEERS**

ENGINEERING DESIGN SECTION

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**TENAYA WAY STREET LIGHTING STATION 18+50 TO 37+00**

**TENAYA WAY / AZURE DRIVE ROADWAY IMPROVEMENTS**

SCALE: 1" = 40' HORIZ VERT

CHECKED BY: [Signature]

DESIGNED BY: [Signature]

DRAWN BY: [Signature]

SHEET 31 OF 70 SHEETS

DRAWING NO. 107-V3145

68345

ADDENDUM #4