





THIS DRAWING IS  
NOT A SITE SURVEY

THE PURPOSE OF THIS DRAWING IS  
TO SHOW HOW THE DEVELOPED SITE  
RELATES TO THE PARENT PARCEL AND  
ADJACENT PROPERTIES. R.O.W.  
MEASUREMENTS ARE APPROXIMATIONS.



AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



**BLACK & VEATCH**

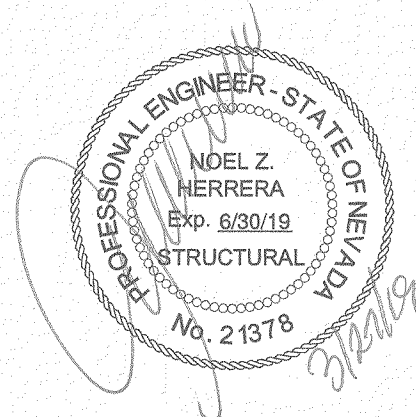
BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

PROJECT NO: 129084.1497

DRAWN BY: YJG

CHECKED BY: GAC

| REV | DATE     | DESCRIPTION             |
|-----|----------|-------------------------|
| 0   | 03/26/19 | ISSUED FOR CONSTRUCTION |



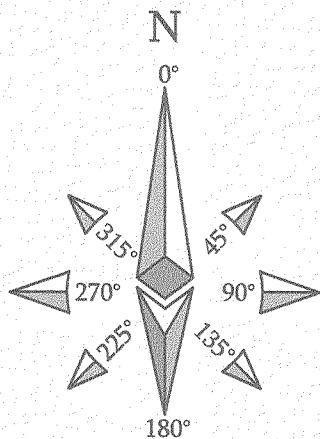
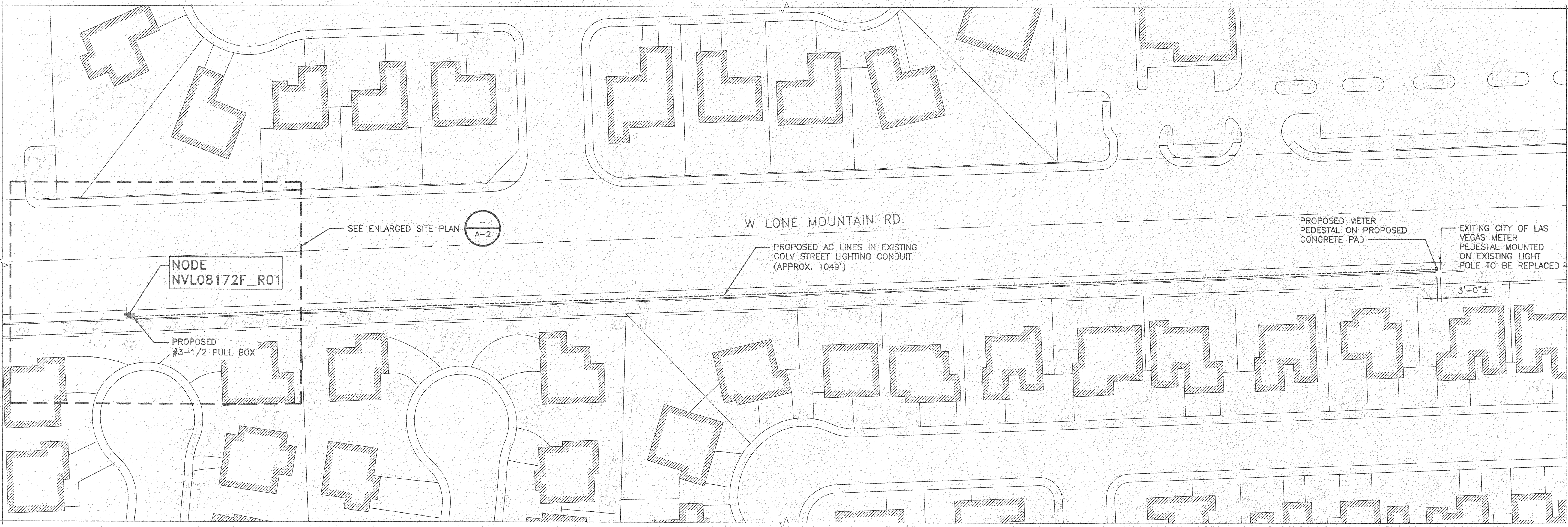
IT IS A VIOLATION OF LAW FOR ANY PERSON,  
UNLESS THEY ARE ACTING UNDER THE DIRECTION  
OF A LICENSED PROFESSIONAL ENGINEER,  
TO ALTER THIS DOCUMENT.

NVL08172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
EXPANDED SITE PLAN  
AND UTILITY ROUTE

SHEET NUMBER

**A-1**



EXPANDED SITE PLAN AND UTILITY ROUTE

NO SCALE

A



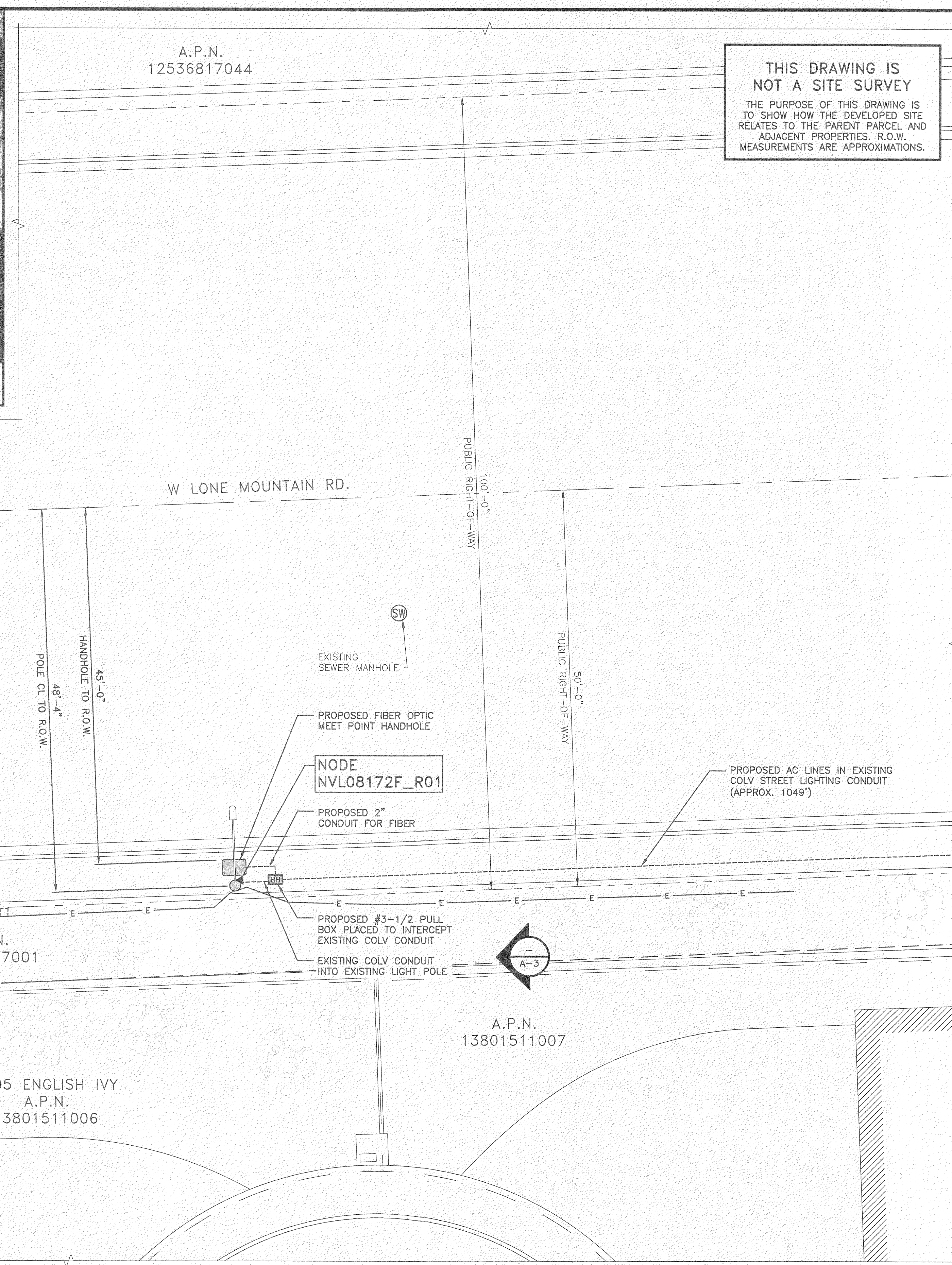
SITE PLAN MAP

NO SCALE

A

SITE PHOTO

B



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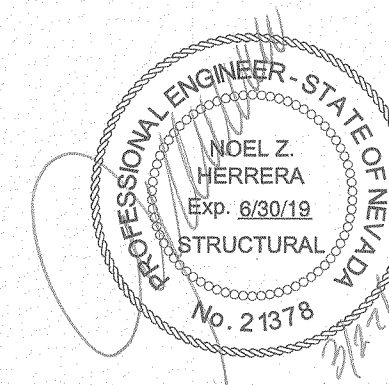


BLACK & VEATCH

BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

|             |             |
|-------------|-------------|
| PROJECT NO: | 129084.1497 |
| DRAWN BY:   | YUG         |
| CHECKED BY: | GAC         |

|     |          |                         |
|-----|----------|-------------------------|
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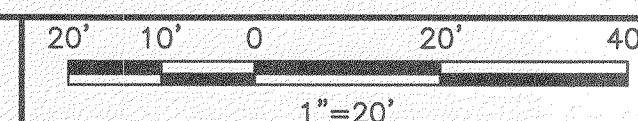
NVL08172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
ENLARGED SITE PLAN

SHEET NUMBER

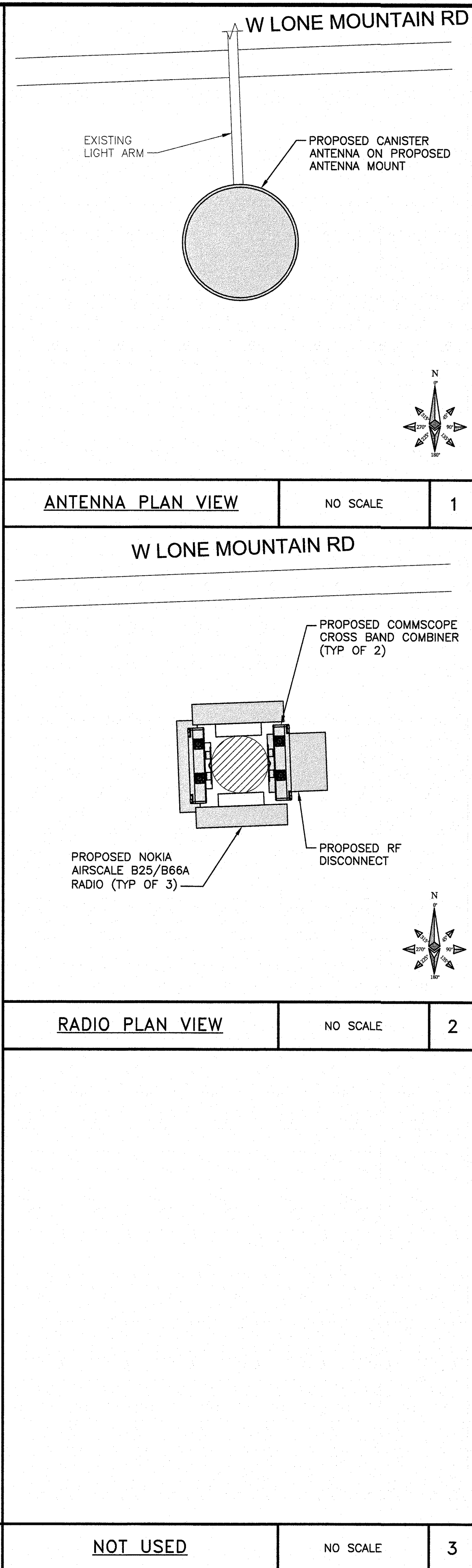
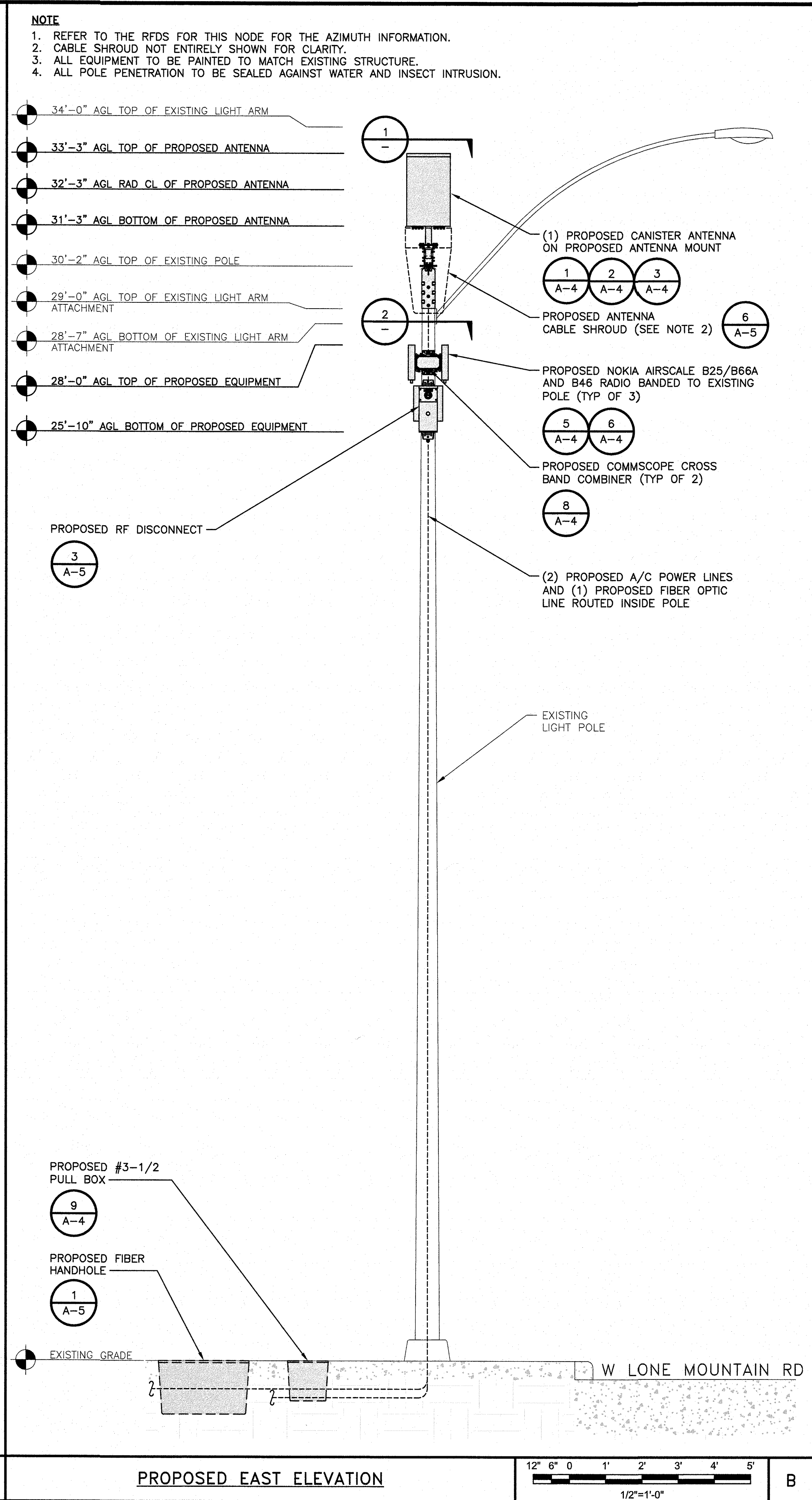
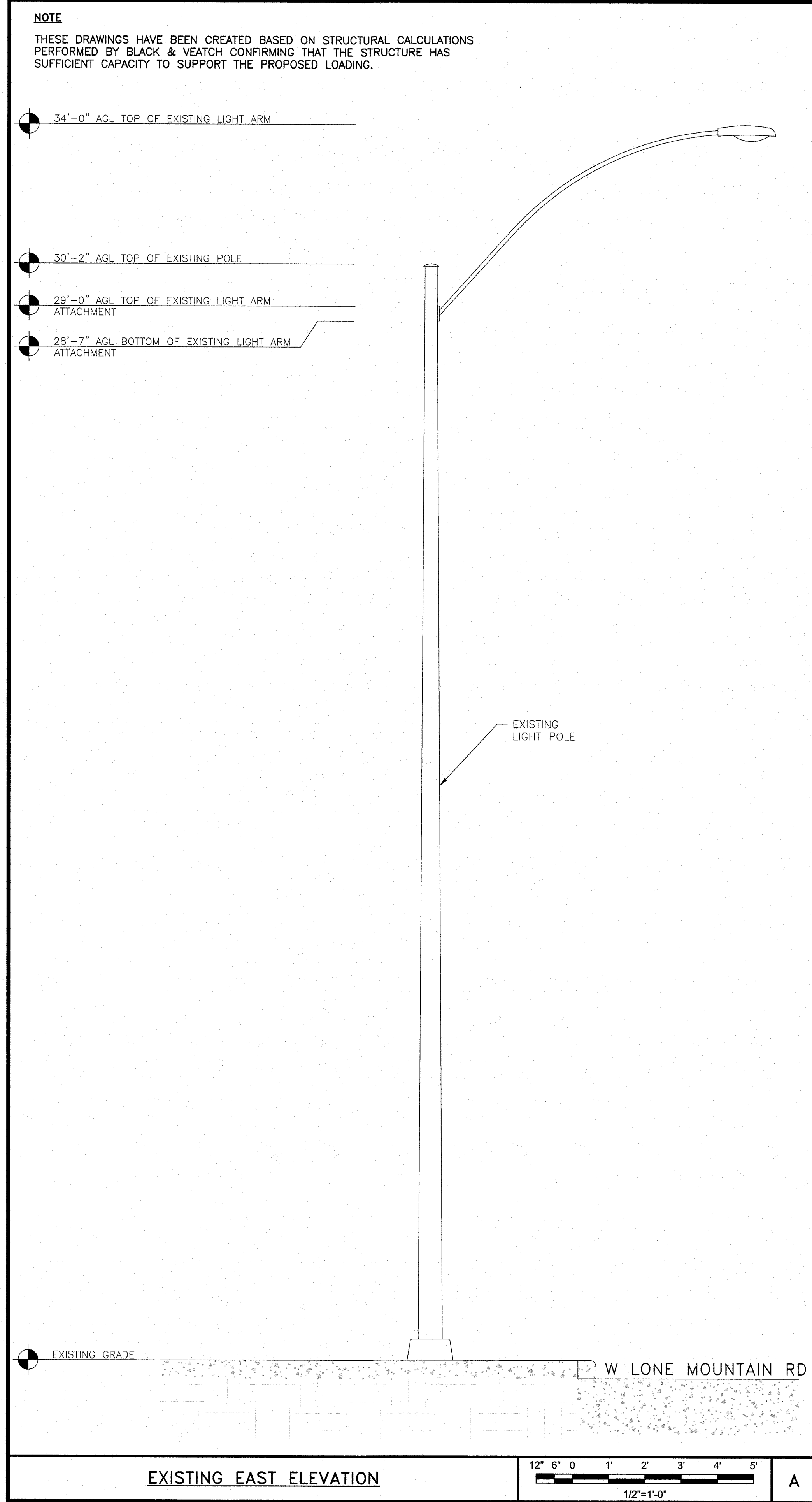
A-2

ENLARGED SITE PLAN



A





AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135

BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

PROJECT NO: 129084.1497  
DRAWN BY: YJG  
CHECKED BY: GAC

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NVL08172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
ELEVATIONS

SHEET NUMBER  
**A-3**



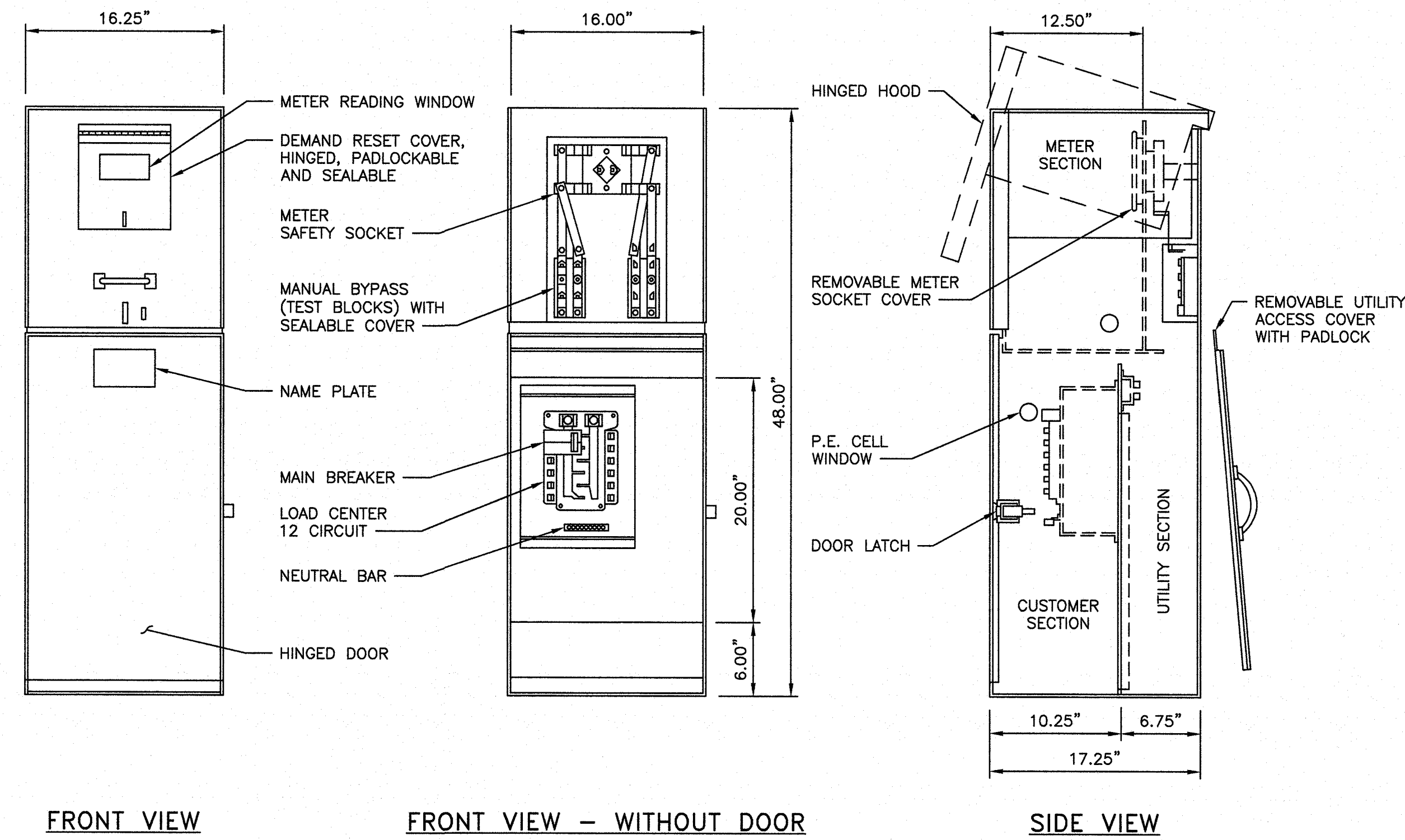








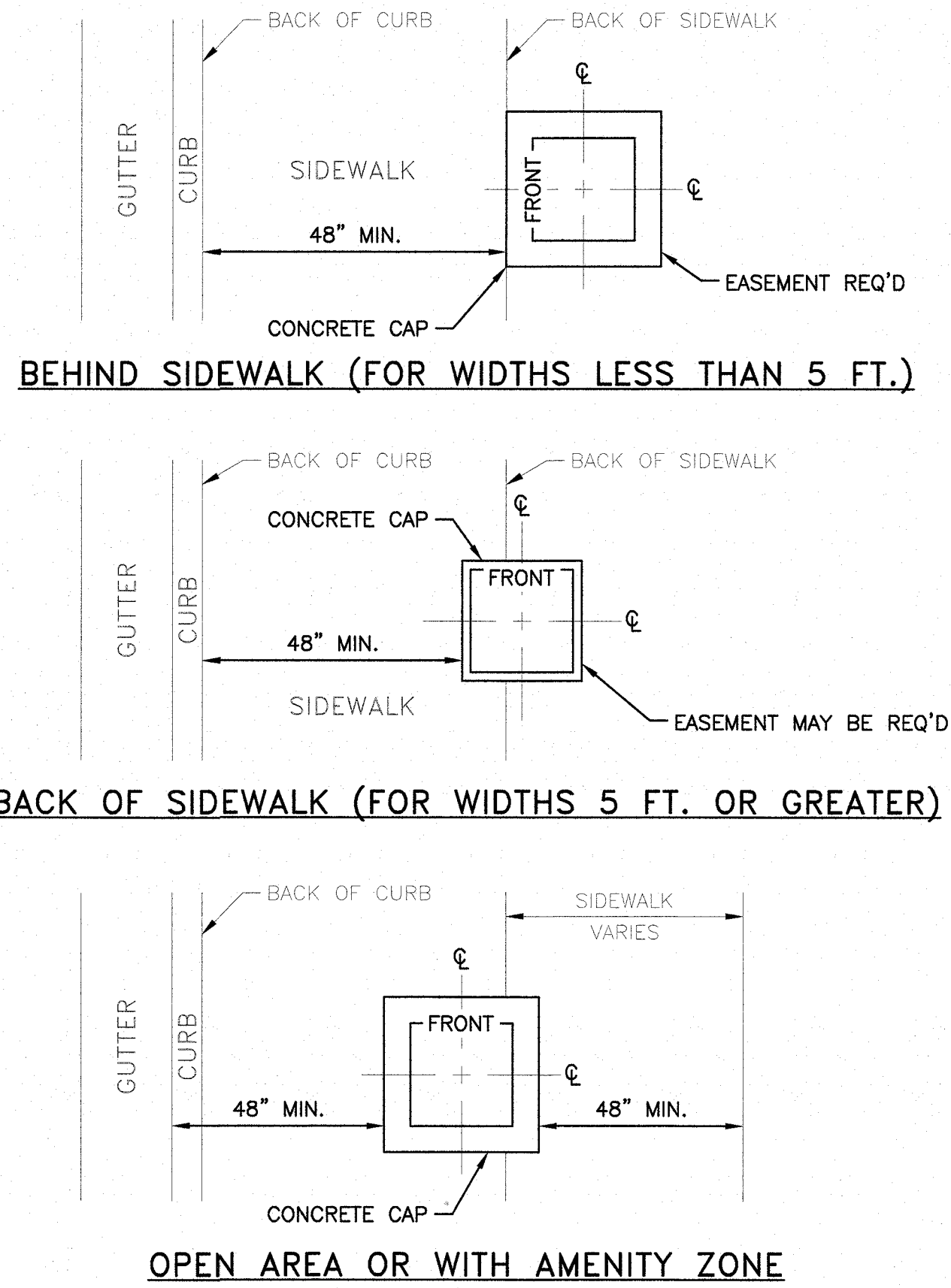
MYERS MEUG16-M100 CALTRANS TYPE III-BF



METER PEDESTAL DETAIL

NO SCALE

1



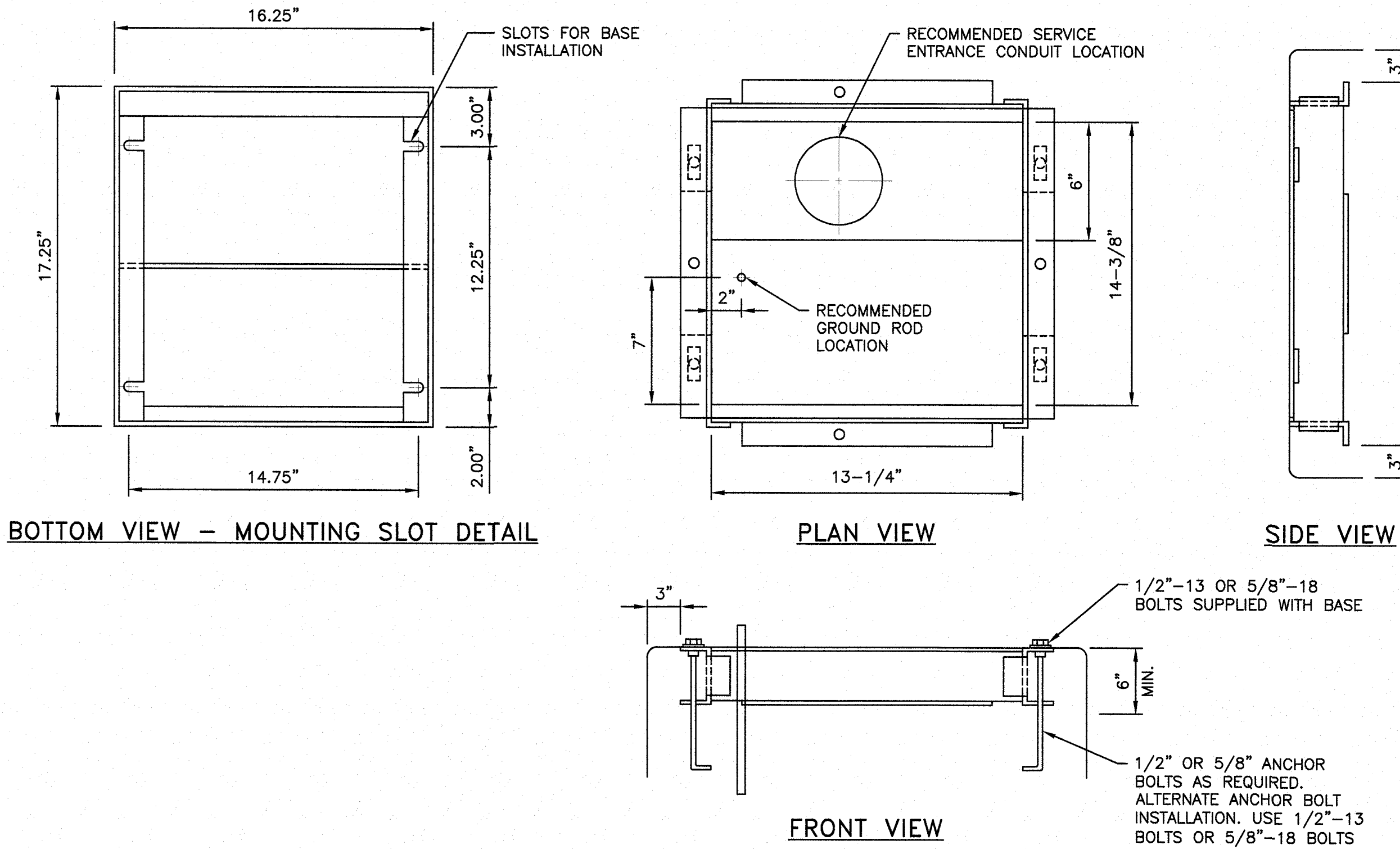
SERVICE PEDESTAL SETBACK DETAILS (USDCCA DRAWING #331)

NO SCALE

2

NOTES

1. MINIMUM CLEARANCE REQUIRED 36" PER NEC 110-16, TYPICAL FRONT AND BACK.
2. FOUNDATION DIMENSIONS AND DEPTH PER JOB SPECIFICATIONS.



BASEPLATE DETAIL

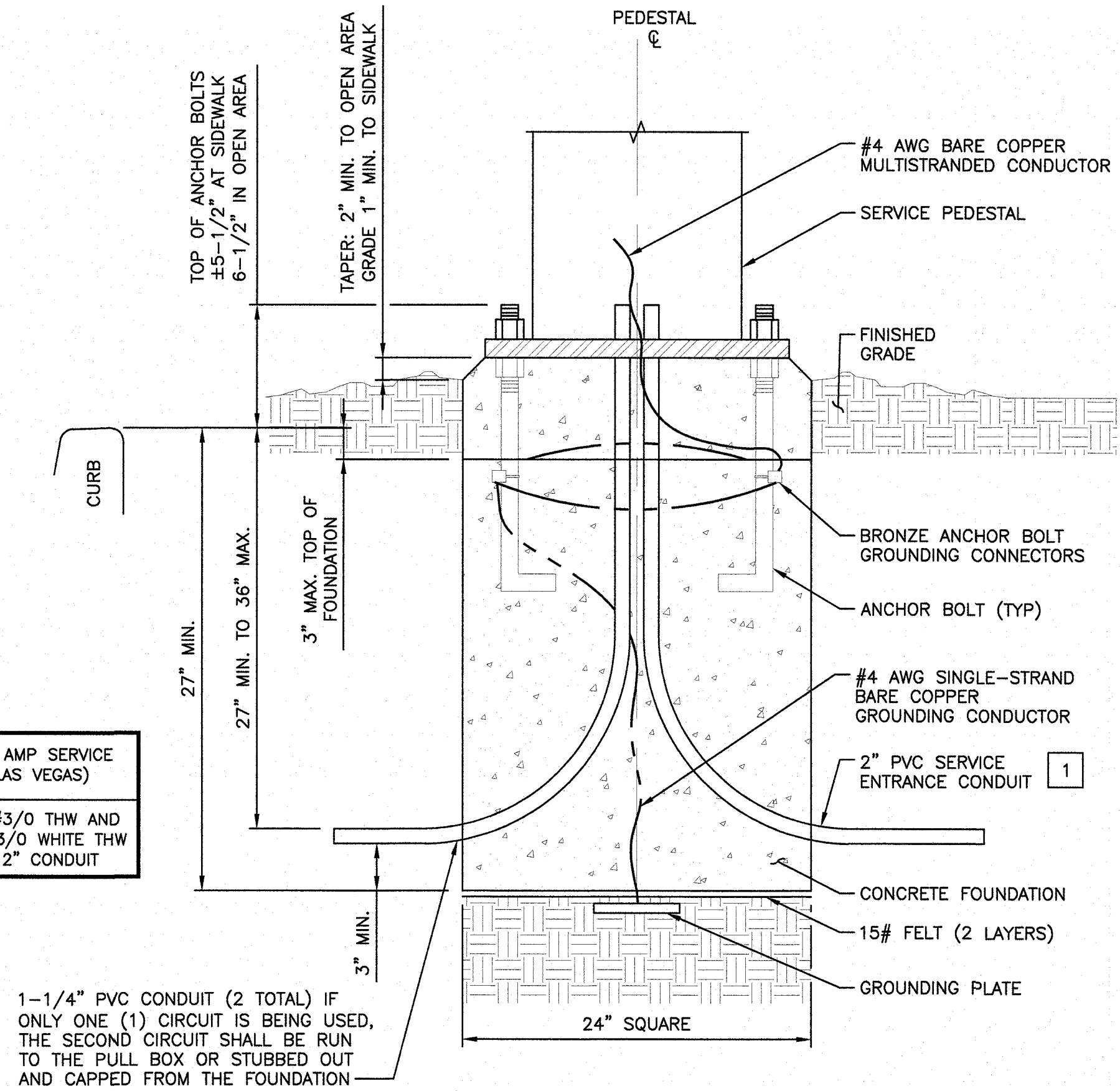
NO SCALE

3

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 SHALL OPEN 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.

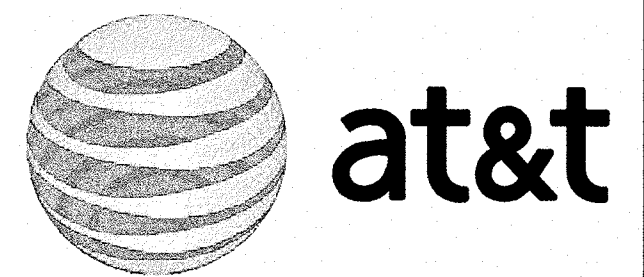
| NO | 125 AMP SERVICE                                   | 200 AMP SERVICE (CLARK COUNTY)                    | 200 AMP SERVICE (LAS VEGAS)                       |
|----|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|
| 1  | (2) #1/0 THW AND (1) #1/0 WHITE THW IN 2" CONDUIT | (2) #4/0 THW AND (1) #4/0 WHITE THW IN 2" CONDUIT | (2) #3/0 THW AND (1) #3/0 WHITE THW IN 2" CONDUIT |



SERVICE PEDESTAL FOUNDATION DETAIL

NO SCALE

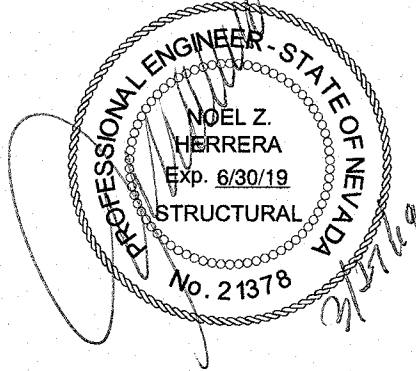
4

  
AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135

  
**BLACK & VEATCH**  
BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

|             |             |
|-------------|-------------|
| PROJECT NO: | 129084.1497 |
| DRAWN BY:   | YJG         |
| CHECKED BY: | GAC         |

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NVLO8172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
METER PEDESTAL DETAILS

SHEET NUMBER  
**A-6**





## NOTICE

RF energy emitted by this device may exceed the FCC's general public exposure limits. Stay at least 1 foot away from the device. Call 800-638-2822 for help if you need access within 1 foot.

### RF NOTICE DECAL

## NOTICE

AT&T operates antennas at this structure.

Above this point you are entering an area where radio frequency (RF) fields may exceed the FCC General Population Exposure limits.

Follow safety guidelines for working in an RF environment.

Keep 1 ft. away from the fronts of antennas.

Contact AT&T at 800-638-2822, opt. 9, 3 and follow their instructions prior to performing and maintenance or repairs above this point.

This is AT&T Site USID \_\_\_\_\_

## CAUTION

AT&T operates antennas at this structure.

Above this point you are entering an area where radio frequency (RF) fields may exceed the FCC General Occupational Exposure limits.

Follow safety guidelines for working in an RF environment.

Keep 1 ft. away from the fronts of antennas.

Contact AT&T at 800-638-2822, opt. 9, 3 and follow their instructions prior to performing and maintenance or repairs above this point.

Cell Site USID \_\_\_\_\_

### EME PLACARD/DECAL

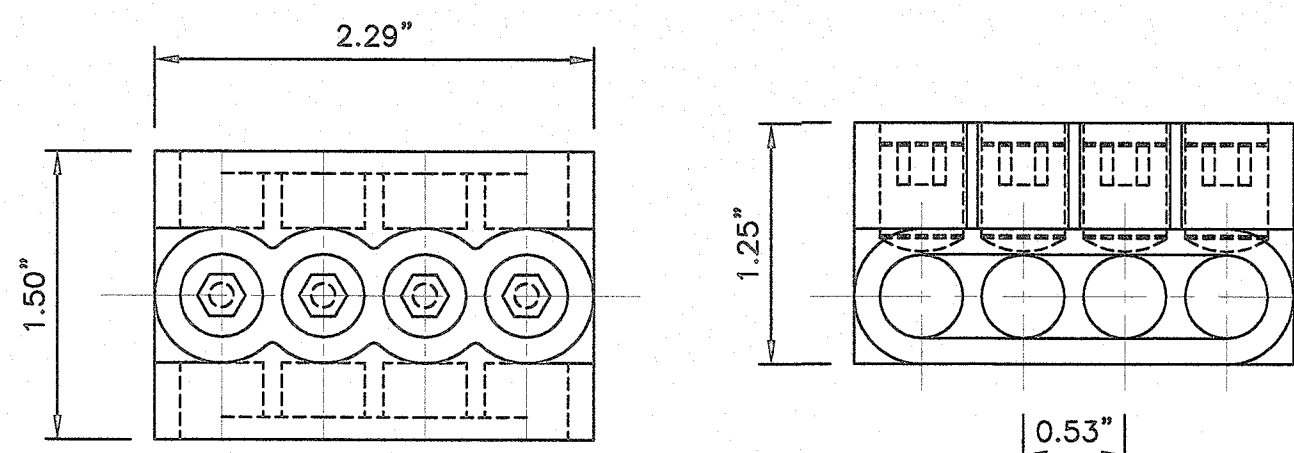
NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

### RF SIGNAGE DETAIL

NO SCALE

1

### MULTI-TAP CONNECTOR WITH CLEAR INSULATION, DOUBLE-SIDED (PCSB4-4-6Y)



### CONNECTOR DETAIL

NO SCALE

2

#### BUSSMANN — HEB SERIES

BREAKAWAY MODEL#: HEB-AW-RLC-A (5.8" LONG)

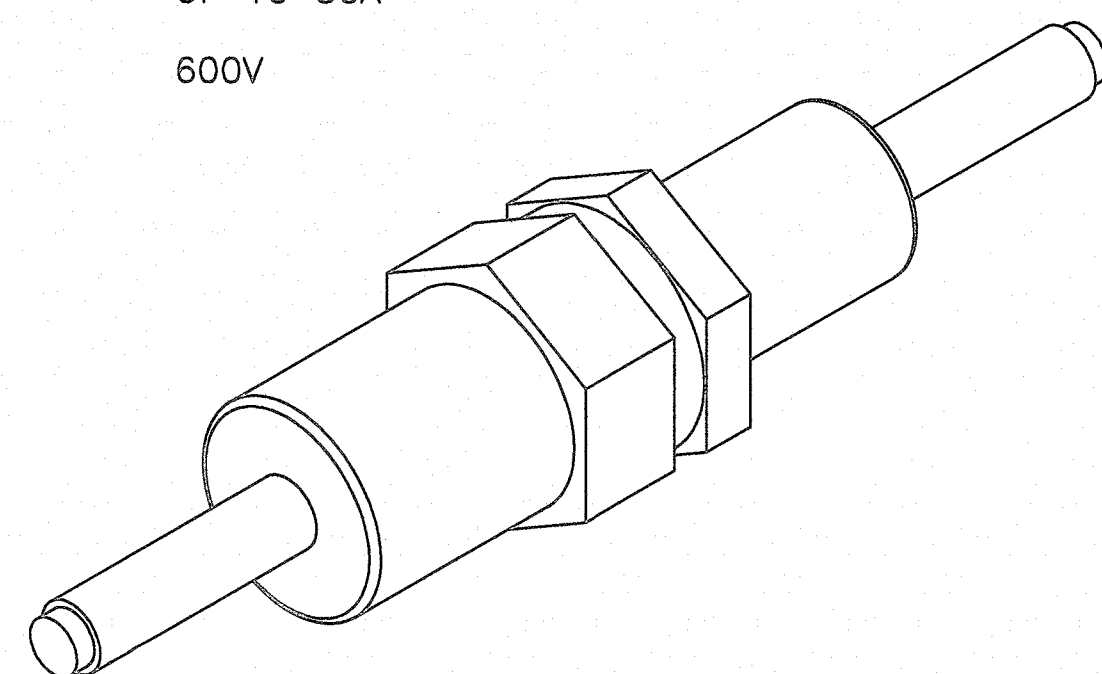
NON-BREAKAWAY MODEL#: HEB-AA (4.4" LONG)

WIRE RANGE: #8-16; (2) #12-16

RECOMMENDED FUSES: BAF, FNM, FNQ, KLM AND KTK

AMPS: UP TO 30A

VOLTS: 600V



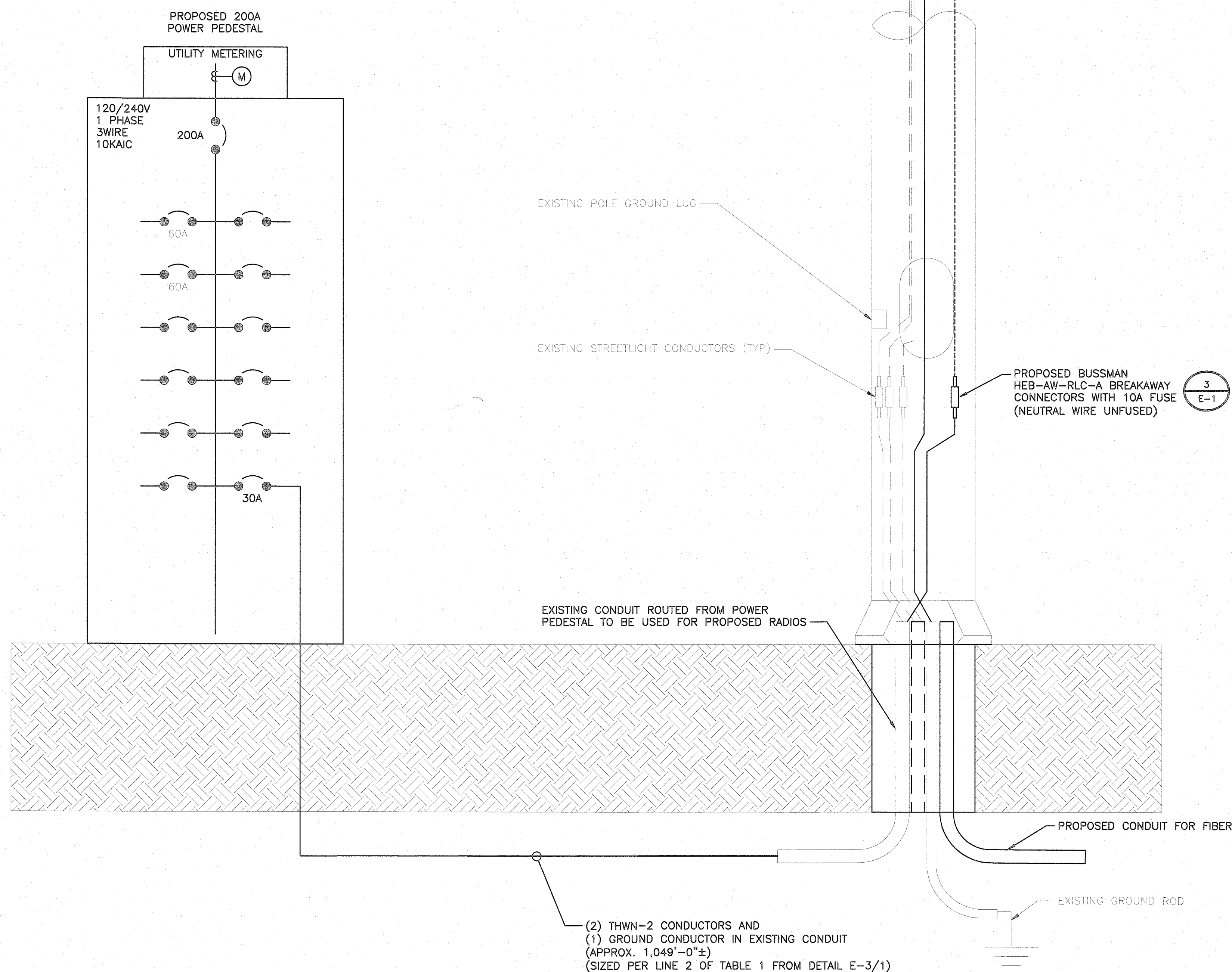
### PROPOSED BREAKAWAY AND NON-BREAKAWAY IN-LINE FUSE HOLDER

NO SCALE

3

## NOTES

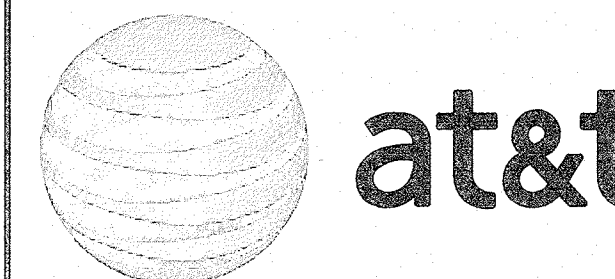
1. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN-2, THW-2, RHW-2, XHHW-2 WIRE UNLESS NOTED OTHERWISE.
3. ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
4. ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "COX COMMUNICATIONS" WITH BRASS OR FIBERGLASS TAGS.



### TYPICAL POLE SITE TEMPLATE

NO SCALE

4



AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



## BLACK & VEATCH

BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

PROJECT NO: 129084.1497

DRAWN BY: YJG

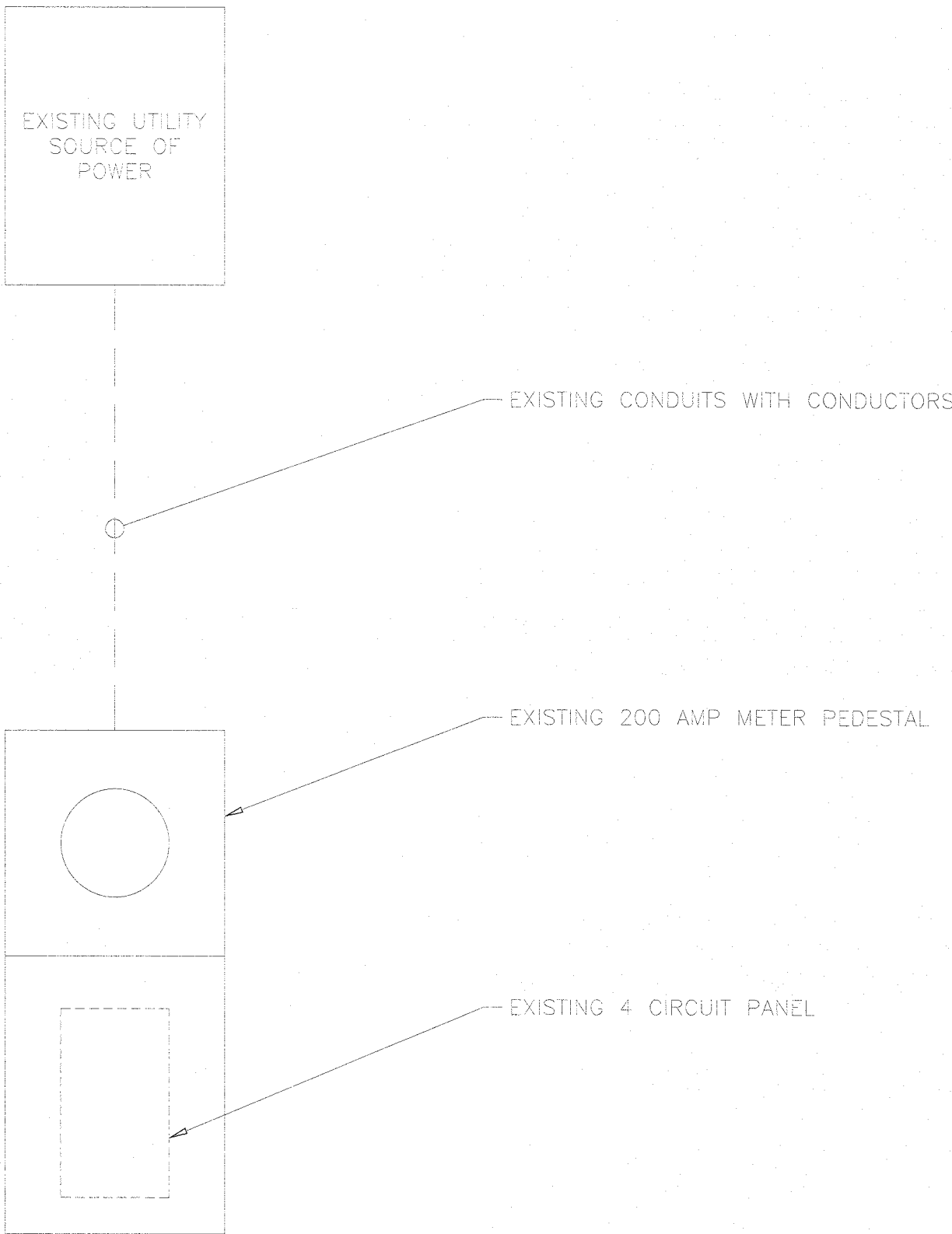
CHECKED BY: GAC

| REV | DATE     | DESCRIPTION             |
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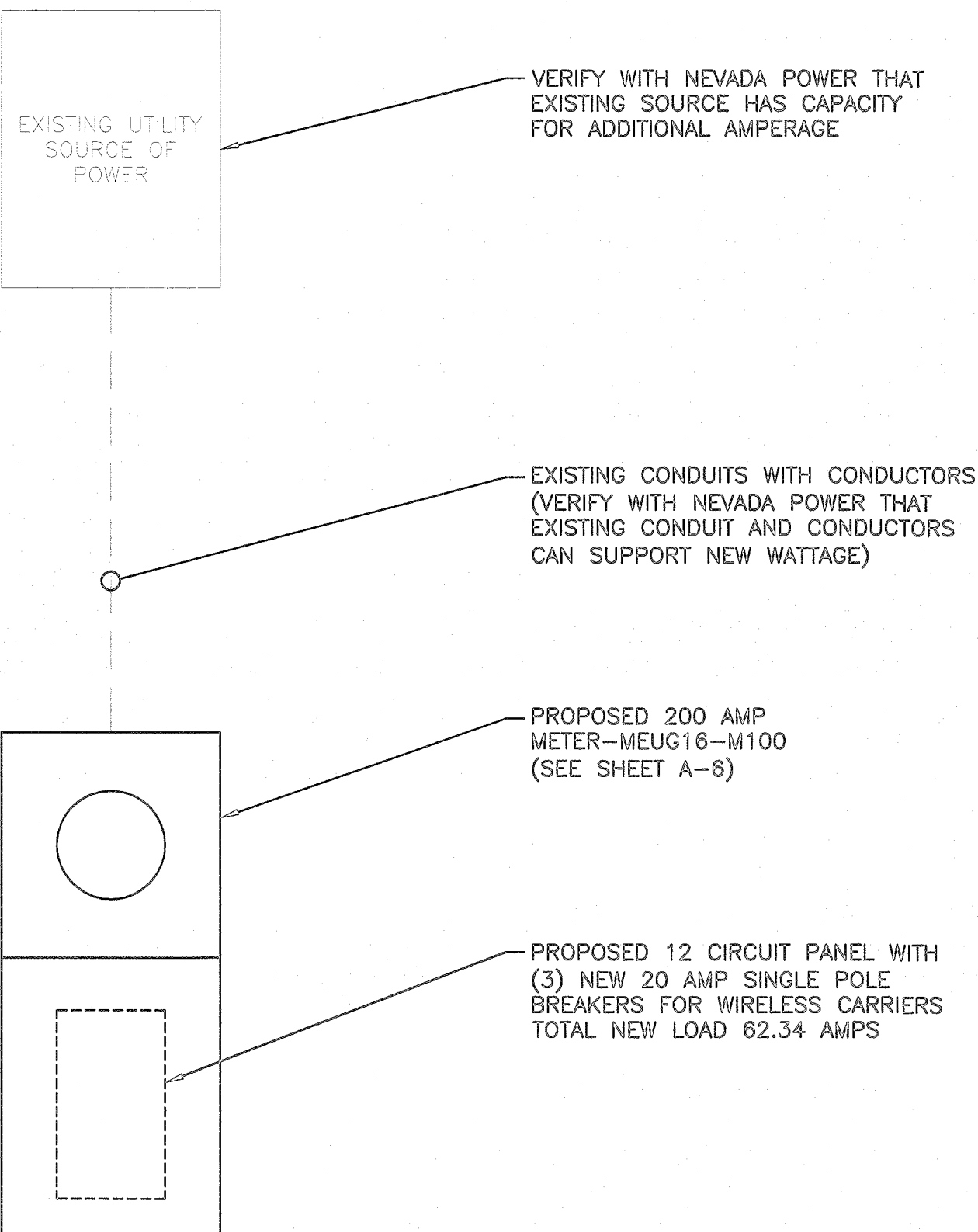
EXISTING ELECTRICAL LOAD STUDY

EXISTING LOAD..... 48 AMPS  
ALLOWED LOAD 80%.....160 AMPS



PROPOSED ELECTRICAL LOAD STUDY

EXISTING LOAD..... 48 AMPS  
SAFETY FACTOR 125%..... 60 AMPS  
PROPOSED LOAD..... 2.34 AMPS  
TOTAL LOAD..... 62.34 AMPS  
ALLOWED LOAD 80% OF 200 AMPS.....160 AMPS



EXISTING SINGLE LINE DIAGRAM

NO SCALE

1

PROPOSED SINGLE LINE DIAGRAM

NO SCALE

2

| Site Name:      |                       | LONE MNT. & PINON  |               |                |                 |               |              | MODEL NUMBER: |            | PROPOSED METER AND LOAD CENTER PEDESTAL |               |                       |                |               |              |                                  |     |
|-----------------|-----------------------|--------------------|---------------|----------------|-----------------|---------------|--------------|---------------|------------|-----------------------------------------|---------------|-----------------------|----------------|---------------|--------------|----------------------------------|-----|
| SITE NUMBER:    |                       | CRAN_M/L08172F_R01 |               |                |                 |               |              | PHASE:        |            | 1                                       |               | WIRE:                 |                | 3             |              |                                  |     |
| VOLTAGE:        |                       | 210/120 Vols AC    |               |                |                 |               |              | BUSS RATING:  |            | 200                                     |               | AMPS                  |                |               |              |                                  |     |
| MAIN BREAKER:   |                       | 200 AMPS           |               |                |                 |               |              |               |            |                                         |               |                       |                |               |              |                                  |     |
| MOUNT:          |                       | SURFACE            |               |                |                 |               |              |               |            |                                         |               |                       |                |               |              |                                  |     |
| ENCLOSURE TYPE: |                       | NEMA 3R            |               |                |                 |               |              |               |            |                                         |               |                       |                |               |              |                                  |     |
| PANEL STATUS:   |                       | PROPOSED           |               |                |                 |               |              |               |            |                                         |               |                       |                |               |              |                                  |     |
| CKT             | LOAD DESCRIPTION      | BREAKER AMPS       | BREAKER POLES | BREAKER STATUS | SERVICE LOAD VA | Demand Factor | USAGE FACTOR | PHASE A VA    | PHASE B VA | USAGE FACTOR                            | Demand Factor | SERVICE LOAD VA       | BREAKER STATUS | BREAKER POLES | BREAKER AMPS | LOAD DESCRIPTION                 | CKT |
| 1               | MAINS                 | 200                | 2             | NEW            | 0               | 1.00          | 1.00         | 563           |            | 1.25                                    | 1.00          | 450                   | NEW            | 1             | 30           | PACTECHSOL PTS80122-3-AA777-PN-8 | 2   |
| 3               |                       |                    |               |                | 0               | 1.00          | 1.00         |               | 0          |                                         |               |                       |                |               |              |                                  | 4   |
| 5               | EXISTING STREET LIGHT | 60                 | 2             | ON             | 5760            | 1.00          | 1.25         | 7200          |            |                                         |               |                       |                |               |              |                                  | 6   |
| 7               |                       |                    |               |                | 5760            | 1.00          | 1.25         |               | 7200       |                                         |               |                       |                |               |              |                                  | 8   |
| 9               |                       |                    |               |                |                 |               |              | 0             |            |                                         |               |                       |                |               |              |                                  | 10  |
| 11              |                       |                    |               |                |                 |               |              |               | 0          |                                         |               |                       |                |               |              |                                  | 12  |
|                 |                       |                    |               |                |                 |               |              | 7763          | 7200       | VA                                      |               |                       |                |               |              |                                  |     |
|                 |                       |                    |               |                |                 |               |              | TOTAL         |            | KVA                                     | 14.98         |                       |                |               |              |                                  |     |
|                 |                       |                    |               |                |                 |               |              |               |            | AMPS                                    | 62.34         | ± 30% OF MAIN BREAKER |                |               |              |                                  |     |

PROPOSED PANEL SCHEDULE AND CALCS

NO SCALE

3



AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



BLACK & VEATCH

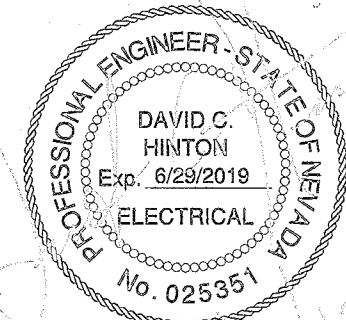
BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

PROJECT NO: 129084.1497

DRAWN BY: YJG

CHECKED BY: GAC

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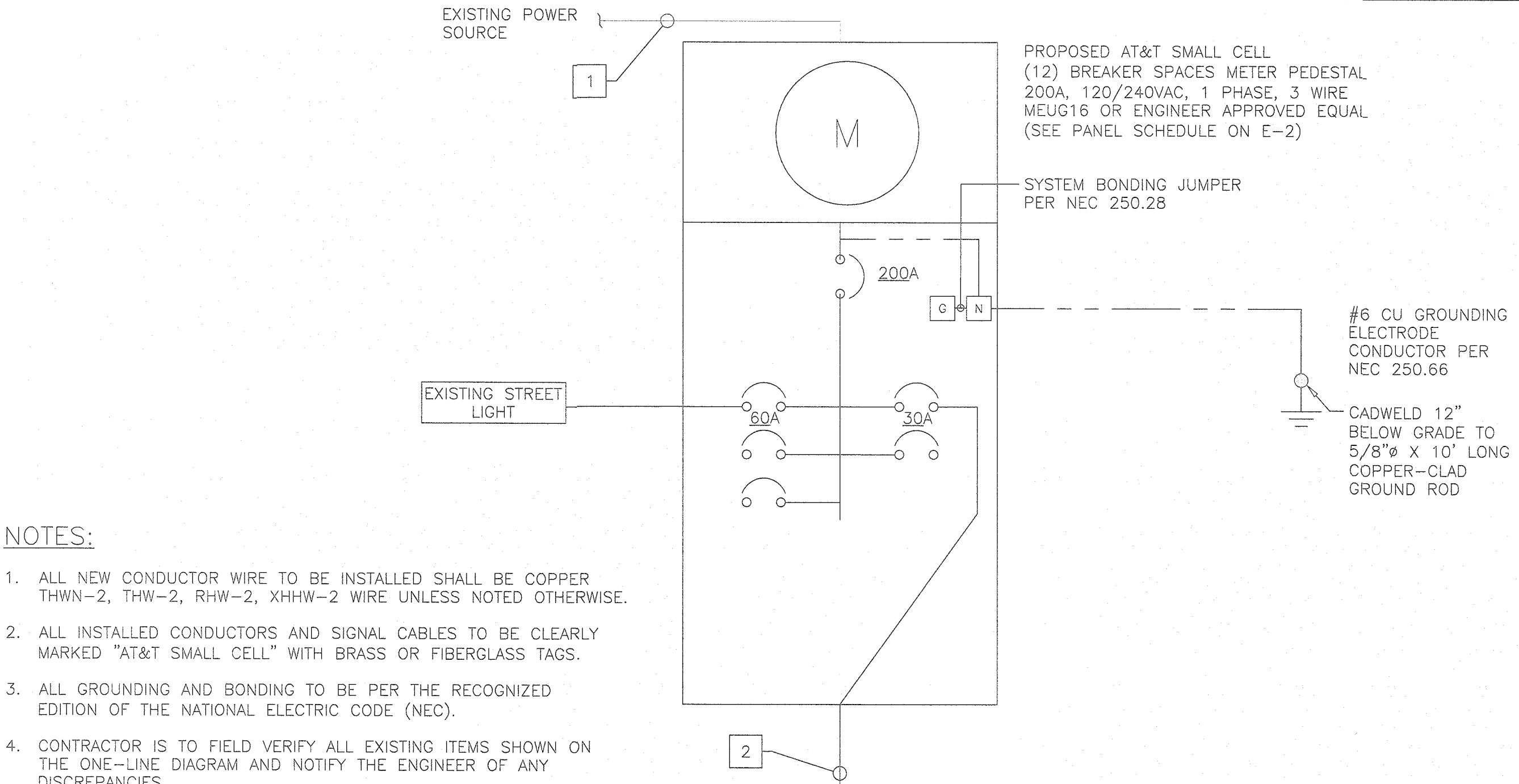
NVL08172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
ELECTRICAL CALCULATIONS  
AND SCHEDULES

SHEET NUMBER

E-2

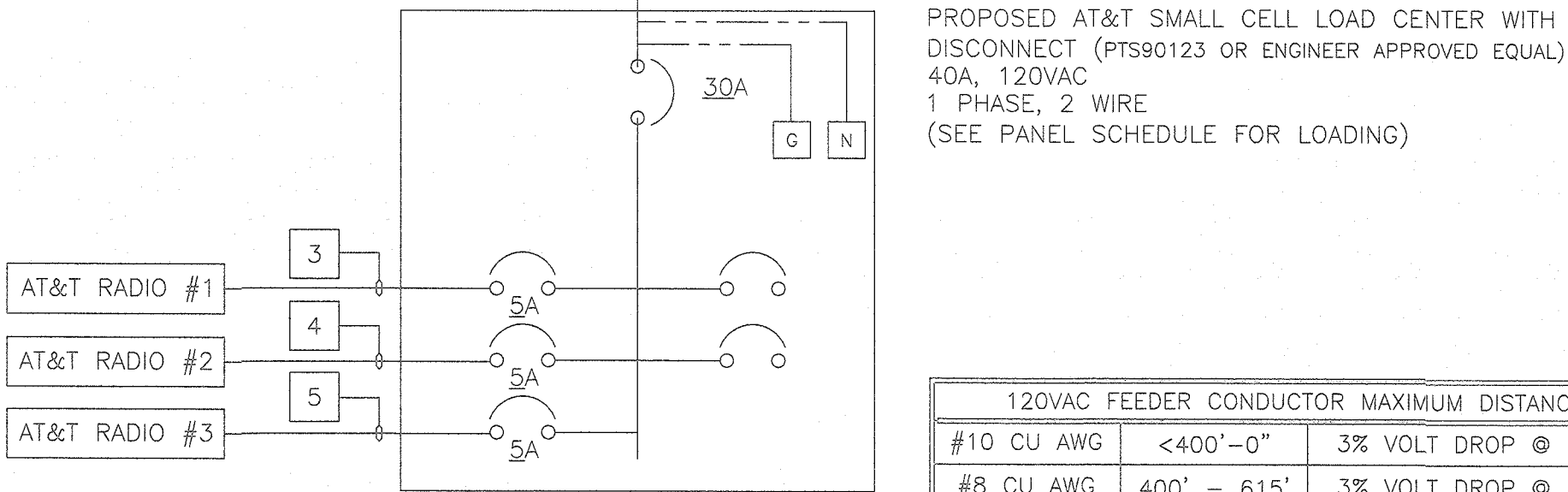




- NOTES:
- ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN-2, THW-2, RHW-2, XHHW-2 WIRE UNLESS NOTED OTHERWISE.
  - ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "AT&T SMALL CELL" WITH BRASS OR FIBERGLASS TAGS.
  - ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
  - CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

| NO | FROM                                      | TO                                                                   | CONFIGURATION                                                              |
|----|-------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------------|
| 1  | UTILITY P.O.C.                            | PROPOSED SMALL CELL 200A METER PEDESTAL, 120/240VAC, 1 PHASE, 3 WIRE | CONDUCTORS AND CONDUIT PER UTILITY (CONTRACTOR TO COORDINATE WITH UTILITY) |
| 2  | PROPOSED SMALL CELL 200A METERED PEDESTAL | AC LOAD CENTER/ SAFETY SWITCH                                        | (2) #4 CU THHN/THWN-2 (1) #10 EGC IN MINIMUM 1-1/4" PVC CONDUIT            |
| 3  | AC LOAD CENTER/ SAFETY SWITCH             | AT&T RADIO #1                                                        | (2) #12 CU THHN/THWN-2 (1) #12 CU EGC                                      |
| 4  | AC LOAD CENTER/ SAFETY SWITCH             | AT&T RADIO #2                                                        | (2) #12 CU THHN/THWN-2 (1) #12 CU EGC                                      |
| 5  | AC LOAD CENTER/ SAFETY SWITCH             | AT&T RADIO #3                                                        | (2) #12 CU THHN/THWN-2 (1) #12 CU EGC                                      |

TABLE 1



| 120VAC FEEDER CONDUCTOR MAXIMUM DISTANCE |              |                      |  |
|------------------------------------------|--------------|----------------------|--|
| #10 CU AWG                               | <400' - 0"   | 3% VOLT DROP @ 3.75A |  |
| #8 CU AWG                                | 400' - 615'  | 3% VOLT DROP @ 3.75A |  |
| #6 CU AWG                                | 615' - 980'  | 3% VOLT DROP @ 3.75A |  |
| #4 CU AWG                                | 980' - 1550' | 3% VOLT DROP @ 3.75A |  |

|                                                                                         |                                  |                   |               |                |                 |               |               |             |                     |              |               |                 |                |               |                       |                  |     |  |
|-----------------------------------------------------------------------------------------|----------------------------------|-------------------|---------------|----------------|-----------------|---------------|---------------|-------------|---------------------|--------------|---------------|-----------------|----------------|---------------|-----------------------|------------------|-----|--|
| Site Name:                                                                              |                                  | LONE MNT. & PINON |               |                |                 |               | MODEL NUMBER: |             | PACTECHSOL PTS90123 |              |               |                 |                |               |                       |                  |     |  |
| SITE NUMBER:                                                                            |                                  | NVL08172F_R01     |               |                |                 |               | PHASE:        |             | 1                   |              |               |                 | WIRE:          |               | 3                     |                  |     |  |
| VOLTAGE:                                                                                |                                  | 120               |               | Volts AC       |                 |               |               | BUS RATING: |                     | 40           |               | AMPS            |                |               |                       |                  |     |  |
| MAIN BREAKER:                                                                           |                                  | 200               |               | AMPS           |                 |               |               |             |                     |              |               |                 |                |               |                       |                  |     |  |
| MOUNT:                                                                                  |                                  | SURFACE           |               |                |                 |               |               |             |                     |              |               |                 |                |               |                       |                  |     |  |
| ENCLOSURE TYPE:                                                                         |                                  | NEMA 3R           |               |                |                 |               |               |             |                     |              |               |                 |                |               |                       |                  |     |  |
| PANEL STATUS:                                                                           |                                  | PROPOSED          |               |                |                 |               |               |             |                     |              |               |                 |                |               |                       |                  |     |  |
| CKT                                                                                     | LOAD DESCRIPTION                 | BREAKER AMPS      | BREAKER POLES | BREAKER STATUS | SERVICE LOAD VA | Demand Factor | USAGE FACTOR  | PHASE A VA  | PHASE B VA          | USAGE FACTOR | Demand Factor | SERVICE LOAD VA | BREAKER STATUS | BREAKER POLES | BREAKER AMPS          | LOAD DESCRIPTION | CKT |  |
| 1                                                                                       | NOKIA AIRSCALE WICRO B25/B66 RRH | 5                 | 1             | NEW            | 150             | 1.00          | 1.00          | 150         |                     |              |               |                 |                |               |                       |                  | 2   |  |
| 2                                                                                       |                                  |                   |               |                |                 |               |               |             | 0                   |              |               |                 |                |               |                       |                  | 4   |  |
| 3                                                                                       | NOKIA AIRSCALE WICRO B25/B66 RRH | 5                 | 1             | NEW            | 150             | 1.00          | 1.00          | 150         |                     |              |               |                 |                |               |                       |                  | 6   |  |
| 4                                                                                       |                                  |                   |               |                |                 |               |               |             | 0                   |              |               |                 |                |               |                       |                  | 8   |  |
| 5                                                                                       | NOKIA AIRSCALE WICRO B25/B66 RRH | 5                 | 1             | NEW            | 150             | 1.00          | 1.00          | 150         |                     |              |               |                 |                |               |                       |                  | 10  |  |
| PANEL 1                                                                                 |                                  |                   |               |                |                 |               |               |             |                     |              |               |                 |                |               |                       |                  |     |  |
| 1. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT. |                                  |                   |               |                |                 |               | 450           |             | 0                   |              | VA            |                 |                |               |                       |                  |     |  |
|                                                                                         |                                  |                   |               |                |                 |               | TOTAL         |             | 0.45                |              | WVA           |                 |                |               |                       |                  |     |  |
|                                                                                         |                                  |                   |               |                |                 |               |               |             | 3.75                |              | /AMPS         |                 |                |               | ≤ 80% OF MAIN BREAKER |                  |     |  |

ELECTRICAL ONE-LINE DIAGRAM (PICO)

NO SCALE

1

NOT USED

NO SCALE

2



AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



BLACK & VEATCH

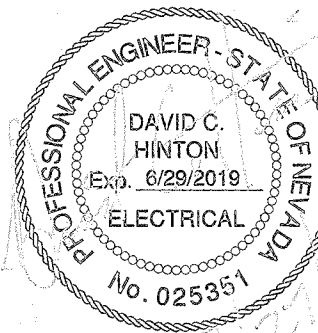
BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

PROJECT NO: 129084.1497

DRAWN BY: YJG

CHECKED BY: GAC

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

NVL08172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
ELECTRICAL ON-LINE  
DIAGRAM

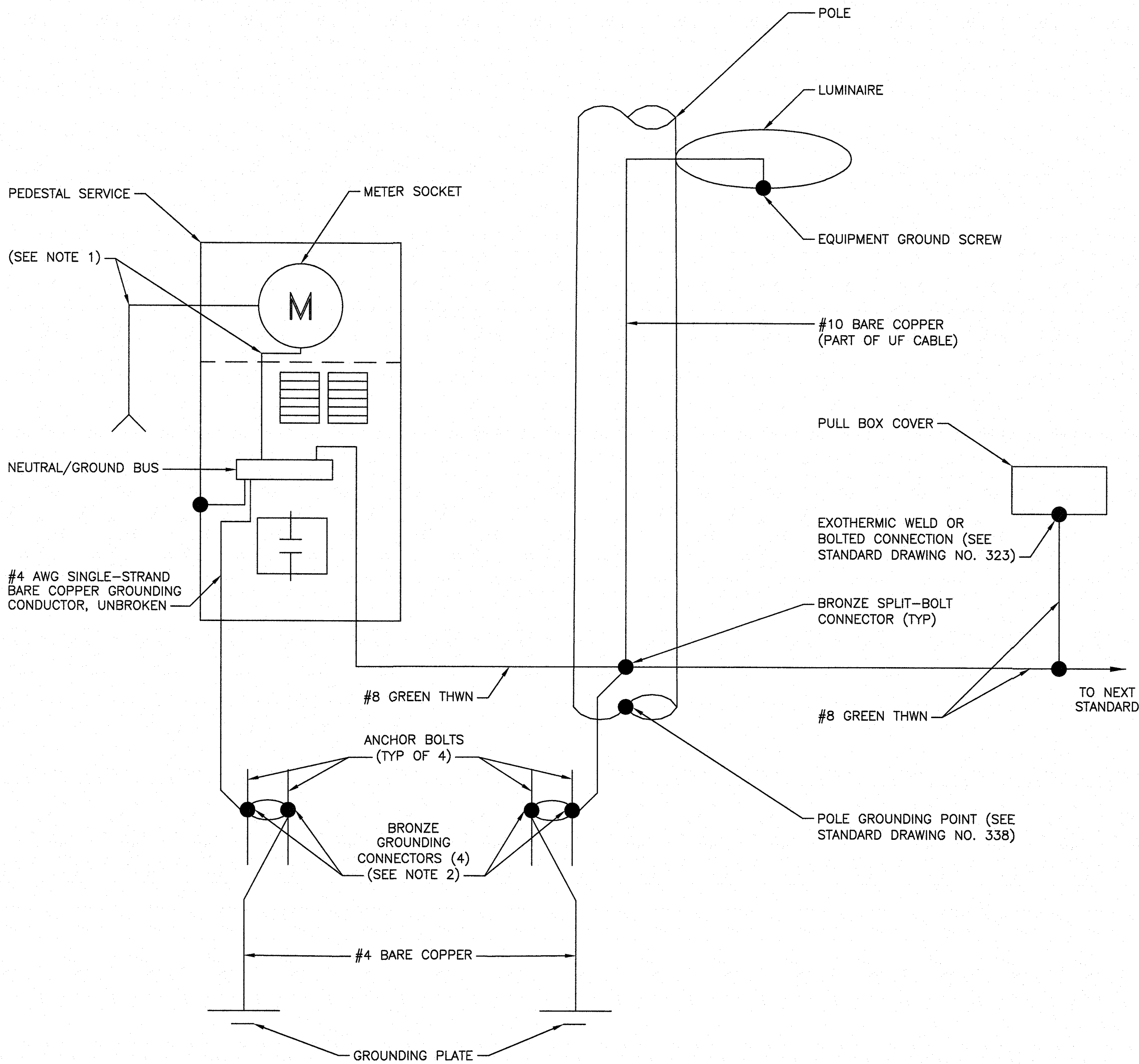
SHEET NUMBER

E-3



NOTES

1. FOR CONDUIT SIZE AND WIRING REQUIREMENTS FOR STREETLIGHT SERVICE, SEE STANDARD DRAWING NO. 332.S2 FOR LAS VEGAS AND CLARK COUNTY ONLY AND 332.S1 FOR ALL OTHER ENTITIES.
2. SEE STANDARD DRAWING NO. 321, 332.S1, OR 332.S2.



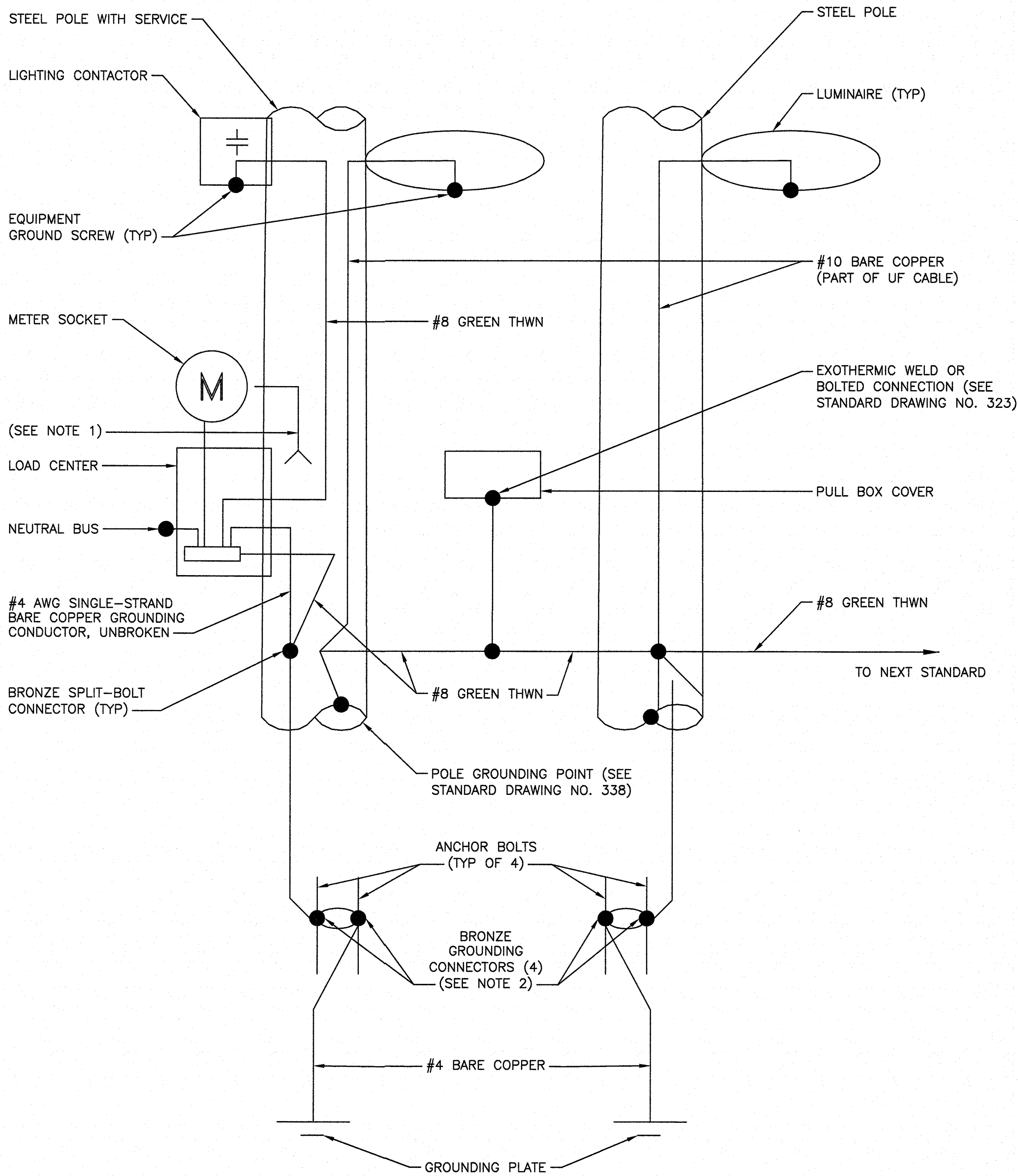
METER PEDESTAL GROUNDING DIAGRAM

NO SCALE

1

NOTES

1. 125 AMP SERVICE: 1 #4 WHITE THW  
200 AMP SERVICE: 1 #1/0 WHITE THW



POLE EQUIPMENT GROUNDING DIAGRAM

NO SCALE

2



AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



**BLACK & VEATCH**

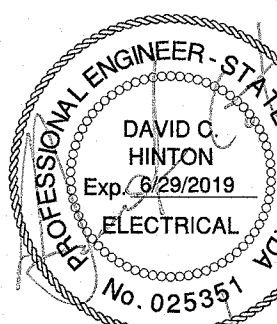
BLACK & VEATCH CORPORATION  
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LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE  
GROUNDING DIAGRAMS

SHEET NUMBER

**G-1**



- ## GENERAL NOTES

### LEGEND

## ABBREVIATIONS





PART 1 – GENERAL

1.1 GENERAL CONDITIONS:

- A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE SUBCONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- B. THE SUBCONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2013 EDITION OF THE CALIFORNIA ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE 2013 EDITION OF CEC.

1.3 REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.

1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)  
2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)  
3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)  
4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)  
5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)  
6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)  
7. UL (UNDERWRITERS LABORATORIES, INC.)  
8. AT&T GROUNDING AND BONDING STANDARDS TP-76416

1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE SUBCONTRACTOR
- C. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE SUBCONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.
- E. THE SUBCONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PART 2 – PRODUCTS

2.1 GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.
- B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE CALIFORNIA ELECTRICAL CODE.
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

2.2 MATERIALS AND EQUIPMENT:

A. CONDUIT:

1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
2. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED.
3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THROATS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

B. CONDUCTORS AND CABLE:

1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
2. #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
4. STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.
5. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).

C. DISCONNECT SWITCHES:

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEERED APPROVED EQUAL.

D. CHEMICAL ELECTROLYTIC GROUNDING SYSTEM:

1. INSTALL CHEMICAL GROUNDING AS REQUIRED. THE SYSTEM SHALL BE ELECTROLYTIC MAINTENANCE FREE ELECTRODE CONSISTING OF RODS WITH A MINIMUM #2 AWG CU EXOTHERMALLY WELDED PIGTAIL, PROTECTIVE BOXES, AND BACKFILL MATERIAL. MANUFACTURER SHALL BE LYNCOLE XIT GROUNDING ROD TYPES K2-(\*)CS OR K2L-(\*)CS. (\*) 10' OR 20' AS AVAILABLE FROM MANUFACTURER, BUT NOT LESS THAN 8' MIN [REQUIRED PER CEC 250.52 A (5)].

2. GROUND ACCESS BOX SHALL BE A POLYPLASTIC BOX FOR NON-TRAFFIC APPLICATIONS, INCLUDING BOLT DOWN FLUSH COVER WITH "BREATHING" HOLES, XIT MODEL #XB-22. ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS ID NUMBERING, AND THE ELECTRICAL POWER SOURCE.

3. BACKFILL MATERIAL SHALL BE LYNCONITE AND LYNCOLE GROUNDING GRAVEL.

E. SYSTEM GROUNDING:

1. ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.
2. GROUNDING BUSES SHALL BE BARE, TINNED, ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE SUBCONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.
4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND CEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.

F. OTHER MATERIALS:

1. THE SUBCONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY CEC.
- G. PANELS AND LOAD CENTERS:
1. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.

PART 3 – EXECUTION

3.1 GENERAL:

- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON DSA APPROVED DWG'S.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE SUBCONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

- A. THE SUBCONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

A. CONDUIT:

1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
2. PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, RMC OTHERWISE NOTED. EMT MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
3. THE INSTALLATION OF SCHEDULE 40 PVC AND RMC CONDUITS SHALL BE 24 INCHES MINIMUM DEPTH. ALL 90 DEGREE BENDS SHALL BE RMC. EXPANSION JOINTS ARE REQUIRED ON ALL CONDUIT RISERS.
4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
5. A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.
6. FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
7. PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
8. SUBCONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. SUBCONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
9. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
10. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
11. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS.
12. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
13. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS UNLESS SPECIFICALLY SHOWN ON DSA APPROVED DWG'S. ANY CORING/CUTTING REQUIRED TO COMPLETE THE WORK, BUT NOT SHOWN ON DSA APPROVED DWG'S SHALL BE SUBJECT TO DSA REVIEW AND APPROVAL PRIOR TO BEGINNING ON SUCH WORK. SLEEVES AND/OR PENETRATION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

B. CONDUCTORS AND CABLE:

1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

| DESCRIPTION | 208/240/120 VOLT SYSTEMS |
|-------------|--------------------------|
| PHASE A     | BLACK                    |
| PHASE B     | RED                      |
| PHASE C     | BLUE                     |
| NEUTRAL     | WHITE                    |
| GROUNDING   | GREEN                    |

2. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDULETS APPROVED FOR THIS PURPOSE.
3. PULLING LUBRICANTS SHALL BE UL APPROVED. SUBCONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.
4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE SUBCONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS TP-76416, ND-00135, AND THE CALIFORNIA ELECTRICAL CODE (2013 CEC EDITION).
2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
3. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPEO OR SHARPLY BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
4. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE SUBCONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM, THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 6.3.2.2.
5. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
6. SUBCONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
8. APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
9. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
10. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
11. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
13. THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHING HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
14. DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
15. IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUNDING BAR AT THE BASE OF THE TOWER, A SECOND GROUNDING BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTORS
16. SUBCONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE SUBCONTRACTORS EXPENSE.

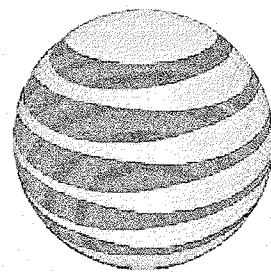
3.5 ACCEPTANCE TESTING:

- A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.

- B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.

C. TEST PROCEDURES:

1. ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.
2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES
4. PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OFF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.



at&t

AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



BLACK & VEATCH

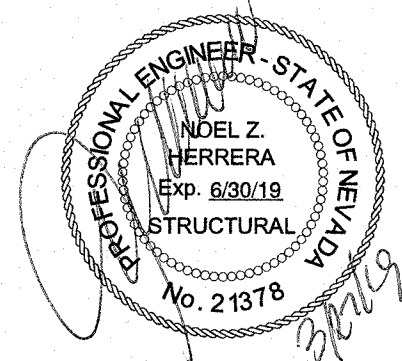
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PICO SMALL CELL

SHEET TITLE

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GN-2

GENERAL ELECTRICAL NOTES



STRUCTURAL STEEL NOTES

- DESIGN, FABRICATION, ERECTION, ALTERATION AND MAINTENANCE SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE (UNO).
  - TIA-222: STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
  - TIA-1019-A: INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
  - AISC: MANUAL OF STEEL CONSTRUCTION
- ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNO.
  - STRUCTURAL STEEL, ASTM A572 GRADE 65 (FY = 65 KSI).
  - ALL BOLTS, ASTM A325 TYPE 1 GALVANIZED HIGH STRENGTH BOLTS.
  - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
  - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL HOLES SHALL BE CUT WITH A GRINDER OR DRILLED. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER OF RECORD.
- ALL FASTENERS SHALL NOT BE REUSED.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED ASTM A325 BOLTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- HOT-DIP GALVANIZE ALL ITEMS, UNO.  
GALVANIZE PER ASTM A123, ASTM A153/A153M OR ASTM A653 G90, AS APPLICABLE.
- AFTER FINAL INSPECTION, ALL EXPOSED STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING WELDS, FIELD DRILLED HOLES, AND SHAFT INTERIORS (WHERE ACCESSIBLE), SHALL BE CLEANED AND COLD GALVANIZING APPLIED BY BRUSH. PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE INSPECTOR.

WELDING NOTES

- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE-STEEL".
- ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- ALL ARC WELDING ON STRUCTURES SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELDING INSPECTOR (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE-DURING-POST, USING THE ACCEPTANCE CRITERIA OF AWS D1.1. THE CWI SHALL WORK WITH THE GC ON THE LEVEL OF INTERACTION NEEDED TO CONDUCT THE WELDING INSPECTION. THE CERTIFIED WELDING INSPECTION IS THE RESPONSIBILITY OF THE GC.
- FOR ALL WELDING, USE E80XX ELECTRODES FOR SMAW PROCESS AND E8XT-XX ELECTRODES FOR FCAW PROCESS, UNO.
- SURFACES TO BE WELDED SHALL BE FREE FROM SCALE, SLAG, RUST, MOISTURE, GREASE OR ANY OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING. GRIND THE SURFACE ADJACENT TO THE WELD FOR A DISTANCE OF 2" MINIMUM ALL AROUND. ENSURE BOTH AREAS ARE 100% FREE OF ALL GALVANIZING.
- REPAIR THE GALVANIZED COATING. ALL AREAS AFFECTED BY THE FIELD DRILLING, FIELD GRINDING AND FIELD WELDING, BOTH INSIDE AND OUTSIDE THE MONOPOLE, SHALL BE REPAIRED. PRODUCTS TO BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AREAS THAT HAVE BEEN TOUCHED UP SHOULD BE INSPECTED AS PART OF THE ROUTINE MAINTENANCE OF THE STRUCTURE. NO SPRAY PAINT IS ALLOWED. AFTER ZINC-RICH PAINT IS DRY, OVERCOAT WITH OWNER'S PAINT SPECIFICATIONS, APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- DO NOT WELD IF THE TEMPERATURE OF THE STEEL IN THE VICINITY OF THE WELD AREA IS BELOW 0° F. WHEN THE TEMPERATURE IS BETWEEN 0° F AND 32° F, PREHEAT AND MAINTAIN THE STEEL IN THE VICINITY OF THE WELD AREA AT 70° F DURING THE WELDING PROCESS.
- DO NOT WELD ON WET OR FROST-COVERED SURFACES & PROVIDE ADEQUATE PROTECTION FROM HIGH WINDS.
- MOVE ALL COAX AND OTHER FLAMMABLE MATERIALS FROM ANY AREA THAT MAY BE HEATED DURING CONSTRUCTION.
- CONTRACTOR SHALL MAKE PROPER PRECAUTIONS AND PROCEDURES TO PROTECT THE STRUCTURE FROM CATCHING FIRE DURING ALL WELDING OPERATIONS. THE FOLLOWING FIRE SAFETY PREVENTION PROTOCOL IS THE MINIMUM REQUIREMENTS DURING WELDING OPERATIONS.
  - 500 GALLON WATER TANK WITH PUMP TO BE ON SITE AT ALL TIMES.
  - 2 FIRE EXTINGUISHERS ON SITE AT ALL TIMES.
  - 2 MAN FIRE WATCH ON ANY ADJACENT STRUCTURES, FIELDS AND POLE.
  - INTERMITTENT COOLING OF WELDED SURFACE TO REDUCE HEAT IN STRUCTURE.

CLARK COUNTY NV STORMWATER BMP NOTES:

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.
- BMPS TO BE IMPLEMENTED INCLUDE BUT ARE NOT LIMITED TO:
  - MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL
  - CONTROLLING STORMWATER FLOWING ONTO AND THROUGH THE PROJECT VIA THE USE OF SEDIMENT BERMS AND STRAW WADDLES AS APPROPRIATE
  - STABILIZING SOILS THROUGH SITE RESTORATION AT COMPLETION OF PROJECT
  - PROTECTING STORM DRAIN INLETS VIA THE USE OF SAND BAGS, STRAW WADDLES AND FILTER FABRIC AS APPROPRIATE
- BMPS MUST BE IN PLACE WHEN SOILS ARE EXPOSED (NO WAITING PERIODS)

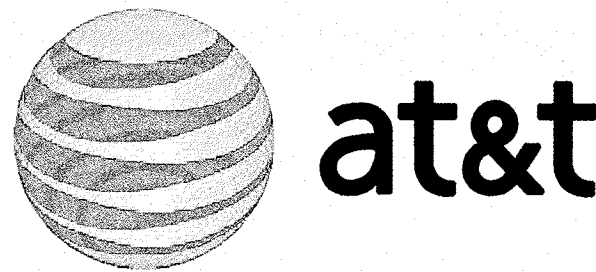
CLARK COUNTY NV PUBLIC WORKS DEVELOPMENT NOTES

- STRUCTURAL DESIGN ACCEPTANCE IS VALID ONLY FOR POLE FOUNDATIONS INSTALLED ON LEVELED SURFACES. ANY FOUNDATION INSTALLED WITHIN (5FT) FROM A SLOPE WILL REQUIRE SLOPE STABILITY ANALYSIS AND CALCULATIONS WITH A SEPARATE STRUCTURAL REVIEW AND FEE. GEOTECHNICAL WILL BE NEEDED FOR THE REVIEW.
- SIDEWALKS MUST BE UNOBSTRUCTED AND HAVE AN ACCESS OF AT LEAST 3.0-FT FROM BACK OF CURB.

SPECIAL INSPECTIONS REQUIRED

PERFORM THIRD PARTY SPECIAL INSPECTION FOR (STREET LIGHT FOUNDATION...).SPECIAL INSPECTION IS REQUIRED.

- INSPECTIONS SHALL BE PERFORMED BY AN ICC CERTIFIED INSPECTOR APPROVED BY CLARK COUNTY; EMPLOYED BY THE OWNER/DEVELOPER.
- PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE FOR THE ITEMS LISTED BELOW.
  - MASONRY-- PERIODIC
  - REINFORCING STEEL PLACEMENT-- PERIODIC
  - GROUT--CONTINUOUS
  - CONCRETE PLACEMENT--CONTINUOUS
  - CONCRETE STRENGTH-- CONTINUOUS
  - EPOXY FASTENED DOWELS AND ANCHORS--PERIODIC
  - .....
- THE INSPECTOR SHALL SUBMIT A STATEMENT TO THE OWNER/DEVELOPER, AND STRUCTURAL ENGINEER INDICATING COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
- SPECIAL INSPECTION OF THE FILL AROUND THE ((STREET LIGHT FOUNDATION...)) SHALL BE PROVIDED AT A FREQUENCY AS NECESSARY TO ENSURE THAT PROPER FILL AND COMPACTION IS ACHIEVED. COMPACTION TEST FOR EACH LIFT SHALL BE TAKEN PER CCAUSD 203.05.02. THE SPECIAL INSPECTOR SHALL SUBMIT A COMPLIANCE REPORT TO THE OWNER/DEVELOPER



AT&T MOBILITY  
10550 W. CHARLESTON  
SUITE B  
LAS VEGAS, NV 89135



BLACK & VEATCH

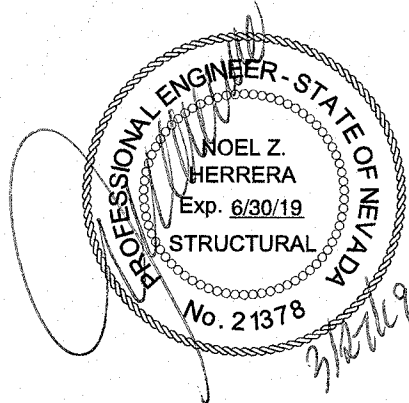
BLACK & VEATCH CORPORATION  
8965 S EASTERN AVE  
SUITE #325  
LAS VEGAS, NV 89123

PROJECT NO: 129084.1497

DRAWN BY: YJG

CHECKED BY: GAC

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|     |          |                         |
| 0   | 03/26/19 | ISSUED FOR CONSTRUCTION |
| REV | DATE     | DESCRIPTION             |



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

NVL08172F\_R01  
ADJACENT TO  
LONE MNT. & PINON  
LAS VEGAS, NV 89130  
PICO SMALL CELL

SHEET TITLE

GENERAL NOTES

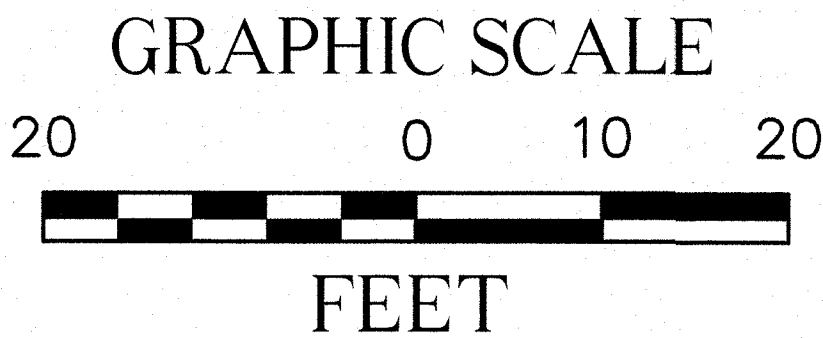
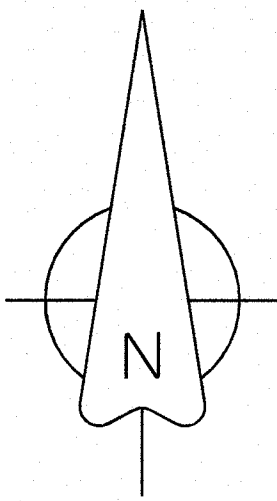
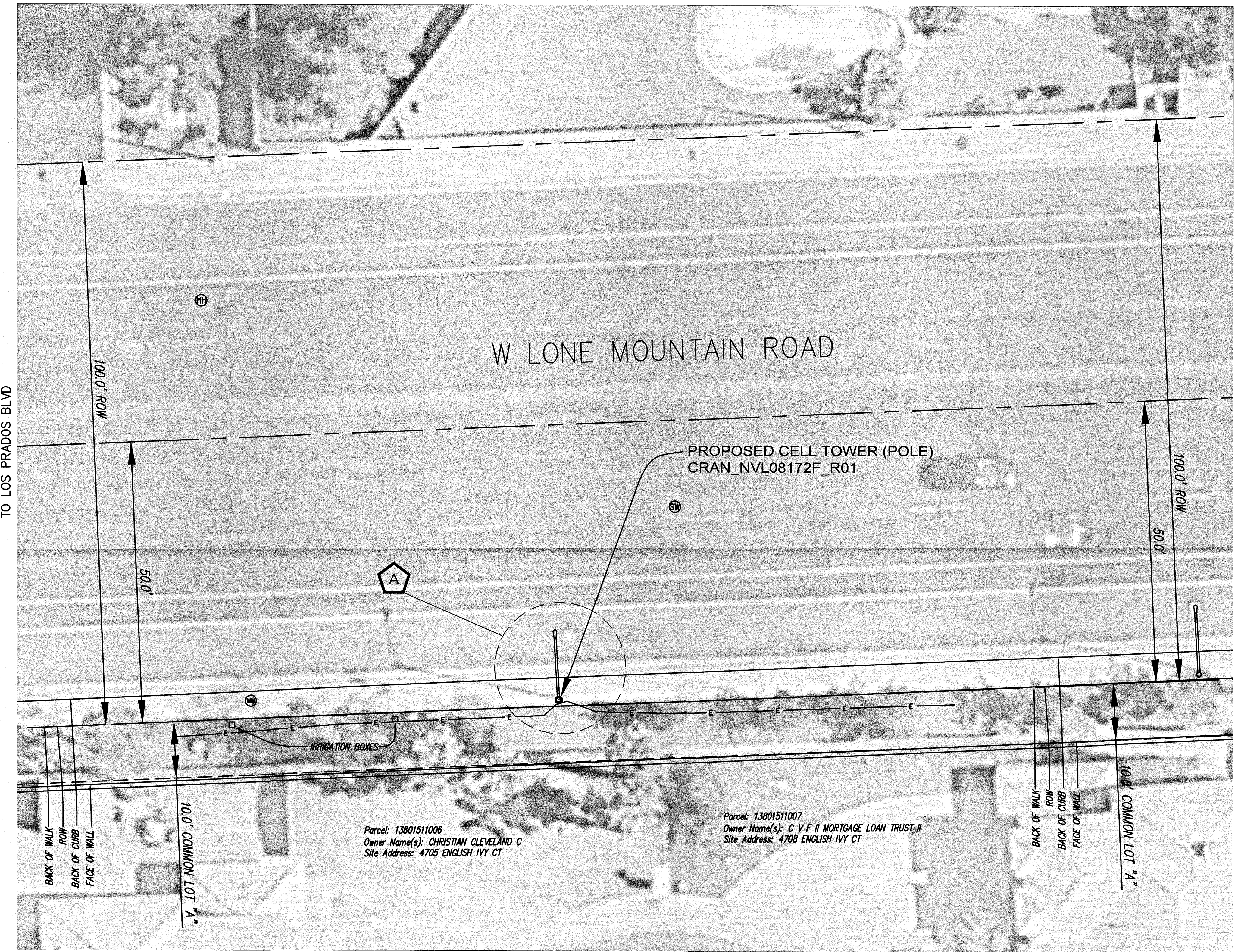
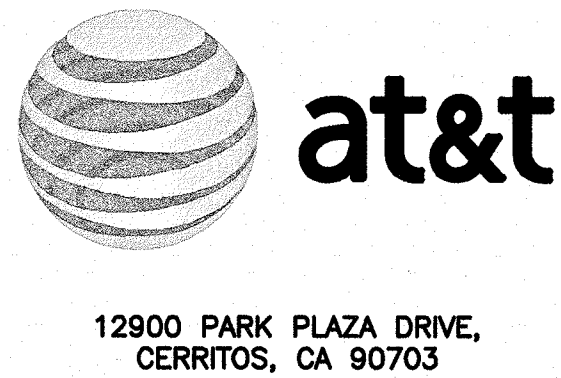
SHEET NUMBER

GN-3



SMALL CELL SITE SURVEY  
SITE: CRAN\_NVL08172F\_R01  
LOT 2 OF SECTION 01, TOWNSHIP 20 SOUTH, RANGE 60 EAST

SITE #/PACE\_NAME: CRAN\_NVL08172F\_R01\_LTE\_1C\_1900  
FA LOCATION CODE: 14817503  
USID: 208326



**A** LATITUDE: 36°14'47.21"N  
LONGITUDE: 115°12'45.13"W  
GROUND ELEVATION: 2216.23'  
NAVD '88

| Legend |                            |
|--------|----------------------------|
|        | MONUMENT                   |
|        | POLE                       |
|        | DOWN GUY                   |
|        | GAS VALVE                  |
|        | PEDASTAL                   |
|        | LAMP POST                  |
|        | WATER VALVE                |
|        | FIRE HYDRANT               |
|        | WATER MANHOLE              |
|        | WATER METER                |
|        | SEWER MANHOLE              |
|        | UNKNOWN OR LABELED MANHOLE |
|        | SANITARY SEWER MANHOLE     |
|        | STORM WATER MANHOLE        |
|        | ELECTRIC MANHOLE           |
|        | TELECOM MANHOLE            |
|        | TREE                       |
|        | FENCELINE                  |
|        | ROW LINE                   |
|        | CENTER LINE                |
|        | SEWER S                    |
|        | TELEPHONE T                |
|        | WATER W                    |
|        | ELECTRIC E                 |
|        | GAS LINE G                 |
|        | OVERHEAD ELEC              |
|        | FENCE BARB X               |
|        | PROPERTY LINE              |

ENGINEERS:

**BLACK & VEATCH**

6 SUNSET WAY  
SUITE B108  
HENDERSON, NV 89014

| SITE NO: CRAN_NVL08172F_R01 |         |                       |
|-----------------------------|---------|-----------------------|
| DRAWN BY: KJC               |         |                       |
| CHECKED BY: CIS             |         |                       |
| REV                         | DATE    | DESCRIPTION           |
| A                           | 3/12/19 | PRELIMINARY SUBMITTAL |
|                             |         |                       |
|                             |         |                       |
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SURVEYOR:

**CIS**

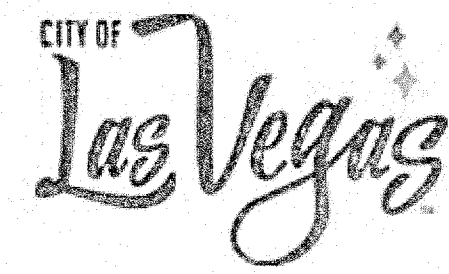
PROFESSIONAL LAND SURVEYING  
435-660-0816

CIS JOB NO:  
CIS 315-1-31-59

SHEET TITLE  
**SMALL CELL  
SITE SURVEY**

SHEET NUMBER  
**1 OF 1**





# CITY OF LAS VEGAS

TRAFFIC ENGINEERING  
FIELD OPERATIONS  
3001 RONEMUS DRIVE  
LAS VEGAS, NV 89128  
PHONE: (702) 229-6331

## SMALL CELL SITE SURVEY

- THIS FORM IDENTIFIES THE POTENTIAL POWER SUPPLY SOURCE FOR A PROPOSED SMALL CELL SITE
- THIS ONLY REPRESENTS THE CONDITIONS AT TIME OF SITE SURVEY
- FIELD CONDITIONS MAY CHANGE FROM THE TIME OF THE SITE SURVEY UNTIL THE START OF CONSTRUCTION

CONTRACTOR'S NAME: Overland Contracting/B&V WIRELESS USE AGREEMENT New Cingular Wireless

WIRELESS SERVICE PROVIDER & ID#: New Cingular Wireless ID # 25307 NVL08172F\_R01 CONTACT NAME: Jason Frayer

OFFICE: 8965 South Eastern Avenue, Suite 325 LV. NV 89123 MOBILE: 702-460-8926 FAX: 702-434-3378

POLE LOCATION & ID: Lone Mnt. & Pinon ID# 137084

CIRCLE ONE : NEW POLE / (EXISTING POLE)

### PROPOSED SERVICE INFORMATION

PROPOSED SERVICE INFORMATION

|                                                        |                   |                |  |              |  |            |         |         |
|--------------------------------------------------------|-------------------|----------------|--|--------------|--|------------|---------|---------|
| Service Location                                       | 4861 Lone Mtn Rd. |                |  |              |  | ID#400603  |         |         |
| Existing Meter #                                       | CC027810162       |                |  |              |  |            |         |         |
| Existing Service Size                                  |                   | 60 Amp         |  | 100 Amp      |  | 125 Amp    |         | 200 Amp |
| Street Light Circuit                                   |                   |                |  |              |  |            |         |         |
| Service Type                                           |                   | Pedestal       |  |              |  | Pole Mount |         |         |
| Current Application                                    |                   | Traffic Signal |  | St. Lighting |  | Both       |         |         |
| Existing Load                                          |                   |                |  |              |  | Amps       |         |         |
| Field Tested By:                                       | B Bradway         |                |  |              |  | Date:      | 1/16/19 |         |
| Additional Notes: No main disconnect. Upgrade Required |                   |                |  |              |  |            |         |         |

### CLV REPRESENTATIVE

- TO BE COMPLETED BY TEFO STAFF

CLV FIELD REVIEWER'S NAME: B Bradway FIELD REVIEW DATE: 1/23/19 A Childers

SENIOR/SUPVERVISOR REVIEW SIGNATURE: [Signature] DATE REVIEWED BY SENIOR TECH: \_\_\_\_\_

Not suitable for use to serve small cell site without upgrade

### BACKUP DOCUMENTATION

- DRAWINGS, PHOTOS, ETC

FILE NAME: \_\_\_\_\_ CREATION DATE: \_\_\_\_\_

FILE NAME: \_\_\_\_\_ CREATION DATE: \_\_\_\_\_

FILE NAME: \_\_\_\_\_ CREATION DATE: \_\_\_\_\_